

# **Appendix for DC\_7A\_n66A (1710-1780)**

## Catalogue

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## 1. Effective Isotropic Radiated Power

### 1.1. Test Results @ Ant4 (Antenna Gain=-3.80dBi)

| SCS   | Bandwidth | Channel | Modulation  | Conducted Result (dBm) |                 |            | Max EIRP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|---------|-------------|------------------------|-----------------|------------|----------------|-------------|---------|
|       |           |         |             | Inner_1RB_Left         | Inner_1RB_Right | Inner_Full |                |             |         |
| 15KHz | 5MHz      | LCH     | DFT-Pi2BPSK | 23.38                  | 23.31           | 23.41      | 19.61          | 30.00       | Pass    |
| 15KHz | 5MHz      | LCH     | DFT-QPSK    | 23.47                  | 23.27           | 23.31      | 19.67          | 30.00       | Pass    |
| 15KHz | 5MHz      | LCH     | DFT-16QAM   | 22.17                  | 22.00           | 22.29      | 18.49          | 30.00       | Pass    |
| 15KHz | 5MHz      | LCH     | DFT-64QAM   | 20.53                  | 20.74           | 20.80      | 17.00          | 30.00       | Pass    |
| 15KHz | 5MHz      | LCH     | DFT-256QAM  | 18.83                  | 18.90           | 18.80      | 15.10          | 30.00       | Pass    |
| 15KHz | 5MHz      | LCH     | CP-QPSK     | 21.78                  | 21.72           | 21.70      | 17.98          | 30.00       | Pass    |
| 15KHz | 5MHz      | MCH     | DFT-Pi2BPSK | 23.07                  | 23.14           | 23.13      | 19.34          | 30.00       | Pass    |
| 15KHz | 5MHz      | MCH     | DFT-QPSK    | 23.03                  | 23.04           | 23.15      | 19.35          | 30.00       | Pass    |
| 15KHz | 5MHz      | MCH     | DFT-16QAM   | 21.67                  | 21.76           | 22.27      | 18.47          | 30.00       | Pass    |
| 15KHz | 5MHz      | MCH     | DFT-64QAM   | 20.72                  | 20.82           | 20.79      | 17.02          | 30.00       | Pass    |
| 15KHz | 5MHz      | MCH     | DFT-256QAM  | 18.26                  | 18.33           | 18.66      | 14.86          | 30.00       | Pass    |
| 15KHz | 5MHz      | MCH     | CP-QPSK     | 21.58                  | 21.69           | 21.63      | 17.89          | 30.00       | Pass    |
| 15KHz | 5MHz      | HCH     | DFT-Pi2BPSK | 23.05                  | 23.02           | 23.12      | 19.32          | 30.00       | Pass    |
| 15KHz | 5MHz      | HCH     | DFT-QPSK    | 23.06                  | 22.96           | 23.12      | 19.32          | 30.00       | Pass    |
| 15KHz | 5MHz      | HCH     | DFT-16QAM   | 21.83                  | 21.78           | 22.16      | 18.36          | 30.00       | Pass    |
| 15KHz | 5MHz      | HCH     | DFT-64QAM   | 20.42                  | 20.39           | 20.81      | 17.01          | 30.00       | Pass    |
| 15KHz | 5MHz      | HCH     | DFT-256QAM  | 18.30                  | 18.26           | 18.61      | 14.81          | 30.00       | Pass    |
| 15KHz | 5MHz      | HCH     | CP-QPSK     | 21.60                  | 21.58           | 21.56      | 17.80          | 30.00       | Pass    |
| 15KHz | 10MHz     | LCH     | DFT-Pi2BPSK | 23.44                  | 23.21           | 23.40      | 19.64          | 30.00       | Pass    |
| 15KHz | 10MHz     | LCH     | DFT-QPSK    | 23.42                  | 23.41           | 23.37      | 19.62          | 30.00       | Pass    |
| 15KHz | 10MHz     | LCH     | DFT-16QAM   | 22.28                  | 22.11           | 22.39      | 18.59          | 30.00       | Pass    |
| 15KHz | 10MHz     | LCH     | DFT-64QAM   | 21.08                  | 20.76           | 20.88      | 17.28          | 30.00       | Pass    |
| 15KHz | 10MHz     | LCH     | DFT-256QAM  | 18.74                  | 18.68           | 18.88      | 15.08          | 30.00       | Pass    |
| 15KHz | 10MHz     | LCH     | CP-QPSK     | 21.80                  | 21.74           | 21.83      | 18.03          | 30.00       | Pass    |
| 15KHz | 10MHz     | MCH     | DFT-Pi2BPSK | 23.06                  | 23.22           | 23.16      | 19.42          | 30.00       | Pass    |
| 15KHz | 10MHz     | MCH     | DFT-QPSK    | 22.97                  | 23.14           | 23.13      | 19.34          | 30.00       | Pass    |
| 15KHz | 10MHz     | MCH     | DFT-16QAM   | 21.74                  | 21.93           | 22.20      | 18.40          | 30.00       | Pass    |
| 15KHz | 10MHz     | MCH     | DFT-64QAM   | 20.33                  | 20.49           | 20.57      | 16.77          | 30.00       | Pass    |
| 15KHz | 10MHz     | MCH     | DFT-256QAM  | 18.24                  | 18.39           | 18.59      | 14.79          | 30.00       | Pass    |
| 15KHz | 10MHz     | MCH     | CP-QPSK     | 21.54                  | 21.66           | 21.62      | 17.86          | 30.00       | Pass    |
| 15KHz | 10MHz     | HCH     | DFT-Pi2BPSK | 23.13                  | 23.06           | 23.15      | 19.35          | 30.00       | Pass    |
| 15KHz | 10MHz     | HCH     | DFT-QPSK    | 23.07                  | 22.98           | 23.16      | 19.36          | 30.00       | Pass    |
| 15KHz | 10MHz     | HCH     | DFT-16QAM   | 21.72                  | 21.61           | 22.18      | 18.38          | 30.00       | Pass    |
| 15KHz | 10MHz     | HCH     | DFT-64QAM   | 21.03                  | 20.93           | 20.66      | 17.23          | 30.00       | Pass    |
| 15KHz | 10MHz     | HCH     | DFT-256QAM  | 18.36                  | 18.21           | 18.56      | 14.76          | 30.00       | Pass    |
| 15KHz | 10MHz     | HCH     | CP-QPSK     | 21.65                  | 21.49           | 21.62      | 17.85          | 30.00       | Pass    |
| 15KHz | 15MHz     | LCH     | DFT-Pi2BPSK | 23.53                  | 23.38           | 23.45      | 19.73          | 30.00       | Pass    |
| 15KHz | 15MHz     | LCH     | DFT-QPSK    | 23.47                  | 23.33           | 23.50      | 19.70          | 30.00       | Pass    |
| 15KHz | 15MHz     | LCH     | DFT-16QAM   | 22.52                  | 22.40           | 22.54      | 18.74          | 30.00       | Pass    |
| 15KHz | 15MHz     | LCH     | DFT-64QAM   | 21.35                  | 21.23           | 21.06      | 17.55          | 30.00       | Pass    |
| 15KHz | 15MHz     | LCH     | DFT-256QAM  | 18.66                  | 18.56           | 18.94      | 15.14          | 30.00       | Pass    |
| 15KHz | 15MHz     | LCH     | CP-QPSK     | 22.07                  | 21.96           | 22.01      | 18.27          | 30.00       | Pass    |
| 15KHz | 15MHz     | MCH     | DFT-Pi2BPSK | 23.21                  | 23.43           | 23.34      | 19.63          | 30.00       | Pass    |
| 15KHz | 15MHz     | MCH     | DFT-QPSK    | 23.10                  | 23.38           | 23.32      | 19.58          | 30.00       | Pass    |
| 15KHz | 15MHz     | MCH     | DFT-16QAM   | 22.15                  | 22.45           | 22.30      | 18.65          | 30.00       | Pass    |
| 15KHz | 15MHz     | MCH     | DFT-64QAM   | 21.08                  | 21.29           | 20.83      | 17.49          | 30.00       | Pass    |
| 15KHz | 15MHz     | MCH     | DFT-256QAM  | 18.33                  | 18.57           | 18.80      | 15.00          | 30.00       | Pass    |
| 15KHz | 15MHz     | MCH     | CP-QPSK     | 21.77                  | 22.00           | 21.84      | 18.20          | 30.00       | Pass    |
| 15KHz | 15MHz     | HCH     | DFT-Pi2BPSK | 23.35                  | 23.25           | 23.37      | 19.57          | 30.00       | Pass    |
| 15KHz | 15MHz     | HCH     | DFT-QPSK    | 23.28                  | 23.17           | 23.36      | 19.56          | 30.00       | Pass    |
| 15KHz | 15MHz     | HCH     | DFT-16QAM   | 22.38                  | 22.32           | 22.35      | 18.58          | 30.00       | Pass    |
| 15KHz | 15MHz     | HCH     | DFT-64QAM   | 21.02                  | 20.95           | 20.86      | 17.22          | 30.00       | Pass    |
| 15KHz | 15MHz     | HCH     | DFT-256QAM  | 18.46                  | 18.43           | 18.80      | 15.00          | 30.00       | Pass    |
| 15KHz | 15MHz     | HCH     | CP-QPSK     | 21.87                  | 21.76           | 21.84      | 18.07          | 30.00       | Pass    |
| 15KHz | 20MHz     | LCH     | DFT-Pi2BPSK | 23.52                  | 23.34           | 23.46      | 19.72          | 30.00       | Pass    |
| 15KHz | 20MHz     | LCH     | DFT-QPSK    | 23.44                  | 23.23           | 23.48      | 19.68          | 30.00       | Pass    |
| 15KHz | 20MHz     | LCH     | DFT-16QAM   | 22.52                  | 22.30           | 22.45      | 18.72          | 30.00       | Pass    |
| 15KHz | 20MHz     | LCH     | DFT-64QAM   | 21.41                  | 21.24           | 21.04      | 17.61          | 30.00       | Pass    |

|       |       |     |             |       |       |       |       |       |      |
|-------|-------|-----|-------------|-------|-------|-------|-------|-------|------|
| 15KHz | 20MHz | LCH | DFT-256QAM  | 18.69 | 18.50 | 18.96 | 15.16 | 30.00 | Pass |
| 15KHz | 20MHz | LCH | CP-QPSK     | 22.01 | 21.83 | 21.97 | 18.21 | 30.00 | Pass |
| 15KHz | 20MHz | MCH | DFT-Pi2BPSK | 23.20 | 23.44 | 23.31 | 19.64 | 30.00 | Pass |
| 15KHz | 20MHz | MCH | DFT-QPSK    | 23.11 | 23.38 | 23.29 | 19.58 | 30.00 | Pass |
| 15KHz | 20MHz | MCH | DFT-16QAM   | 22.14 | 22.44 | 22.31 | 18.64 | 30.00 | Pass |
| 15KHz | 20MHz | MCH | DFT-64QAM   | 21.07 | 21.30 | 20.83 | 17.50 | 30.00 | Pass |
| 15KHz | 20MHz | MCH | DFT-256QAM  | 18.30 | 18.64 | 18.78 | 14.98 | 30.00 | Pass |
| 15KHz | 20MHz | MCH | CP-QPSK     | 21.68 | 21.96 | 21.83 | 18.16 | 30.00 | Pass |
| 15KHz | 20MHz | HCH | DFT-Pi2BPSK | 23.37 | 23.23 | 23.40 | 19.60 | 30.00 | Pass |
| 15KHz | 20MHz | HCH | DFT-QPSK    | 23.29 | 23.17 | 23.41 | 19.61 | 30.00 | Pass |
| 15KHz | 20MHz | HCH | DFT-16QAM   | 22.06 | 21.96 | 22.45 | 18.65 | 30.00 | Pass |
| 15KHz | 20MHz | HCH | DFT-64QAM   | 20.70 | 20.55 | 20.95 | 17.15 | 30.00 | Pass |
| 15KHz | 20MHz | HCH | DFT-256QAM  | 18.57 | 18.46 | 18.83 | 15.03 | 30.00 | Pass |
| 15KHz | 20MHz | HCH | CP-QPSK     | 21.94 | 21.78 | 21.91 | 18.14 | 30.00 | Pass |
| 15KHz | 25MHz | LCH | DFT-Pi2BPSK | 23.56 | 23.47 | 23.43 | 19.76 | 30.00 | Pass |
| 15KHz | 25MHz | LCH | DFT-QPSK    | 23.50 | 23.29 | 23.33 | 19.70 | 30.00 | Pass |
| 15KHz | 25MHz | LCH | DFT-16QAM   | 22.23 | 21.99 | 22.31 | 18.51 | 30.00 | Pass |
| 15KHz | 25MHz | LCH | DFT-64QAM   | 21.19 | 21.03 | 20.89 | 17.39 | 30.00 | Pass |
| 15KHz | 25MHz | LCH | DFT-256QAM  | 18.86 | 18.61 | 18.78 | 15.06 | 30.00 | Pass |
| 15KHz | 25MHz | LCH | CP-QPSK     | 22.07 | 21.86 | 21.82 | 18.27 | 30.00 | Pass |
| 15KHz | 25MHz | MCH | DFT-Pi2BPSK | 23.20 | 23.56 | 23.30 | 19.76 | 30.00 | Pass |
| 15KHz | 25MHz | MCH | DFT-QPSK    | 23.13 | 23.47 | 23.32 | 19.67 | 30.00 | Pass |
| 15KHz | 25MHz | MCH | DFT-16QAM   | 21.84 | 22.27 | 22.30 | 18.50 | 30.00 | Pass |
| 15KHz | 25MHz | MCH | DFT-64QAM   | 20.48 | 20.89 | 20.81 | 17.09 | 30.00 | Pass |
| 15KHz | 25MHz | MCH | DFT-256QAM  | 18.38 | 18.76 | 18.76 | 14.96 | 30.00 | Pass |
| 15KHz | 25MHz | MCH | CP-QPSK     | 21.72 | 22.06 | 21.89 | 18.26 | 30.00 | Pass |
| 15KHz | 25MHz | HCH | DFT-Pi2BPSK | 23.40 | 23.38 | 23.41 | 19.61 | 30.00 | Pass |
| 15KHz | 25MHz | HCH | DFT-QPSK    | 23.29 | 23.29 | 23.40 | 19.60 | 30.00 | Pass |
| 15KHz | 25MHz | HCH | DFT-16QAM   | 22.03 | 22.08 | 22.43 | 18.63 | 30.00 | Pass |
| 15KHz | 25MHz | HCH | DFT-64QAM   | 21.06 | 21.02 | 20.98 | 17.26 | 30.00 | Pass |
| 15KHz | 25MHz | HCH | DFT-256QAM  | 18.67 | 18.61 | 18.87 | 15.07 | 30.00 | Pass |
| 15KHz | 25MHz | HCH | CP-QPSK     | 21.93 | 21.84 | 21.93 | 18.13 | 30.00 | Pass |
| 15KHz | 30MHz | LCH | DFT-Pi2BPSK | 23.46 | 23.18 | 23.44 | 19.66 | 30.00 | Pass |
| 15KHz | 30MHz | LCH | DFT-QPSK    | 23.44 | 23.14 | 23.33 | 19.64 | 30.00 | Pass |
| 15KHz | 30MHz | LCH | DFT-16QAM   | 22.54 | 21.88 | 22.33 | 18.74 | 30.00 | Pass |
| 15KHz | 30MHz | LCH | DFT-64QAM   | 21.38 | 21.04 | 20.91 | 17.58 | 30.00 | Pass |
| 15KHz | 30MHz | LCH | DFT-256QAM  | 18.86 | 18.64 | 18.81 | 15.06 | 30.00 | Pass |
| 15KHz | 30MHz | LCH | CP-QPSK     | 22.03 | 21.81 | 21.81 | 18.23 | 30.00 | Pass |
| 15KHz | 30MHz | MCH | DFT-Pi2BPSK | 23.18 | 23.49 | 23.36 | 19.69 | 30.00 | Pass |
| 15KHz | 30MHz | MCH | DFT-QPSK    | 23.11 | 23.37 | 23.35 | 19.57 | 30.00 | Pass |
| 15KHz | 30MHz | MCH | DFT-16QAM   | 21.75 | 22.04 | 22.32 | 18.52 | 30.00 | Pass |
| 15KHz | 30MHz | MCH | DFT-64QAM   | 20.81 | 21.08 | 20.91 | 17.28 | 30.00 | Pass |
| 15KHz | 30MHz | MCH | DFT-256QAM  | 18.48 | 18.78 | 18.84 | 15.04 | 30.00 | Pass |
| 15KHz | 30MHz | MCH | CP-QPSK     | 21.69 | 21.98 | 21.83 | 18.18 | 30.00 | Pass |
| 15KHz | 30MHz | HCH | DFT-Pi2BPSK | 23.34 | 23.24 | 23.47 | 19.67 | 30.00 | Pass |
| 15KHz | 30MHz | HCH | DFT-QPSK    | 23.20 | 23.17 | 23.44 | 19.64 | 30.00 | Pass |
| 15KHz | 30MHz | HCH | DFT-16QAM   | 21.85 | 21.80 | 22.46 | 18.66 | 30.00 | Pass |
| 15KHz | 30MHz | HCH | DFT-64QAM   | 21.17 | 21.11 | 21.02 | 17.37 | 30.00 | Pass |
| 15KHz | 30MHz | HCH | DFT-256QAM  | 18.64 | 18.63 | 18.95 | 15.15 | 30.00 | Pass |
| 15KHz | 30MHz | HCH | CP-QPSK     | 21.77 | 21.76 | 21.91 | 18.11 | 30.00 | Pass |
| 15KHz | 35MHz | LCH | DFT-Pi2BPSK | 23.51 | 23.40 | 23.29 | 19.71 | 30.00 | Pass |
| 15KHz | 35MHz | LCH | DFT-QPSK    | 23.42 | 23.29 | 23.31 | 19.62 | 30.00 | Pass |
| 15KHz | 35MHz | LCH | DFT-16QAM   | 22.00 | 21.95 | 22.30 | 18.50 | 30.00 | Pass |
| 15KHz | 35MHz | LCH | DFT-64QAM   | 21.33 | 21.25 | 20.81 | 17.53 | 30.00 | Pass |
| 15KHz | 35MHz | LCH | DFT-256QAM  | 18.60 | 18.54 | 18.81 | 15.01 | 30.00 | Pass |
| 15KHz | 35MHz | LCH | CP-QPSK     | 21.93 | 21.98 | 21.81 | 18.18 | 30.00 | Pass |
| 15KHz | 35MHz | MCH | DFT-Pi2BPSK | 23.22 | 23.54 | 23.33 | 19.74 | 30.00 | Pass |
| 15KHz | 35MHz | MCH | DFT-QPSK    | 23.16 | 23.51 | 23.36 | 19.71 | 30.00 | Pass |
| 15KHz | 35MHz | MCH | DFT-16QAM   | 21.74 | 22.18 | 22.35 | 18.55 | 30.00 | Pass |
| 15KHz | 35MHz | MCH | DFT-64QAM   | 21.05 | 21.46 | 20.90 | 17.66 | 30.00 | Pass |
| 15KHz | 35MHz | MCH | DFT-256QAM  | 18.33 | 18.67 | 18.88 | 15.08 | 30.00 | Pass |
| 15KHz | 35MHz | MCH | CP-QPSK     | 21.73 | 22.09 | 21.82 | 18.29 | 30.00 | Pass |

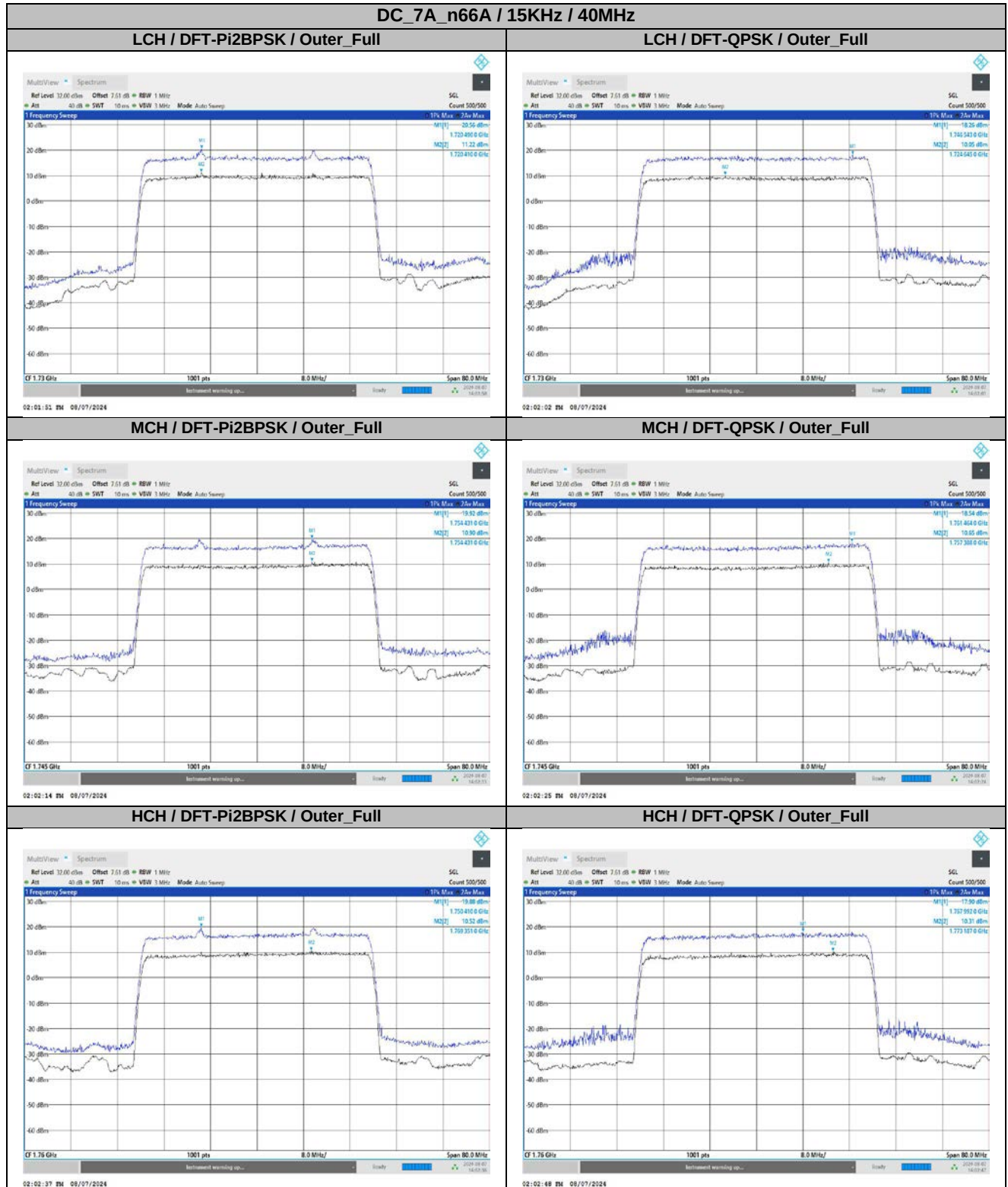
|       |       |     |             |       |       |       |       |       |      |
|-------|-------|-----|-------------|-------|-------|-------|-------|-------|------|
| 15KHz | 35MHz | HCH | DFT-Pi2BPSK | 23.25 | 23.34 | 23.50 | 19.70 | 30.00 | Pass |
| 15KHz | 35MHz | HCH | DFT-QPSK    | 23.22 | 23.18 | 23.48 | 19.68 | 30.00 | Pass |
| 15KHz | 35MHz | HCH | DFT-16QAM   | 21.82 | 21.89 | 22.43 | 18.63 | 30.00 | Pass |
| 15KHz | 35MHz | HCH | DFT-64QAM   | 21.15 | 21.14 | 20.98 | 17.35 | 30.00 | Pass |
| 15KHz | 35MHz | HCH | DFT-256QAM  | 18.44 | 18.38 | 18.92 | 15.12 | 30.00 | Pass |
| 15KHz | 35MHz | HCH | CP-QPSK     | 21.82 | 21.89 | 21.99 | 18.19 | 30.00 | Pass |
| 15KHz | 40MHz | LCH | DFT-Pi2BPSK | 23.46 | 23.36 | 23.30 | 19.66 | 30.00 | Pass |
| 15KHz | 40MHz | LCH | DFT-QPSK    | 23.32 | 23.26 | 23.31 | 19.52 | 30.00 | Pass |
| 15KHz | 40MHz | LCH | DFT-16QAM   | 21.92 | 21.90 | 22.35 | 18.55 | 30.00 | Pass |
| 15KHz | 40MHz | LCH | DFT-64QAM   | 20.82 | 20.80 | 20.81 | 17.02 | 30.00 | Pass |
| 15KHz | 40MHz | LCH | DFT-256QAM  | 18.69 | 18.81 | 18.77 | 15.01 | 30.00 | Pass |
| 15KHz | 40MHz | LCH | CP-QPSK     | 21.89 | 21.96 | 21.80 | 18.16 | 30.00 | Pass |
| 15KHz | 40MHz | MCH | DFT-Pi2BPSK | 23.22 | 23.35 | 23.40 | 19.60 | 30.00 | Pass |
| 15KHz | 40MHz | MCH | DFT-QPSK    | 23.12 | 23.32 | 23.39 | 19.59 | 30.00 | Pass |
| 15KHz | 40MHz | MCH | DFT-16QAM   | 22.24 | 21.88 | 22.41 | 18.61 | 30.00 | Pass |
| 15KHz | 40MHz | MCH | DFT-64QAM   | 21.09 | 21.23 | 20.90 | 17.43 | 30.00 | Pass |
| 15KHz | 40MHz | MCH | DFT-256QAM  | 18.35 | 18.63 | 18.90 | 15.10 | 30.00 | Pass |
| 15KHz | 40MHz | MCH | CP-QPSK     | 21.74 | 21.98 | 21.85 | 18.18 | 30.00 | Pass |
| 15KHz | 40MHz | HCH | DFT-Pi2BPSK | 23.13 | 23.12 | 23.49 | 19.69 | 30.00 | Pass |
| 15KHz | 40MHz | HCH | DFT-QPSK    | 23.08 | 23.06 | 23.48 | 19.68 | 30.00 | Pass |
| 15KHz | 40MHz | HCH | DFT-16QAM   | 21.66 | 21.76 | 22.49 | 18.69 | 30.00 | Pass |
| 15KHz | 40MHz | HCH | DFT-64QAM   | 20.99 | 21.05 | 20.97 | 17.25 | 30.00 | Pass |
| 15KHz | 40MHz | HCH | DFT-256QAM  | 18.45 | 18.70 | 18.97 | 15.17 | 30.00 | Pass |
| 15KHz | 40MHz | HCH | CP-QPSK     | 21.68 | 21.74 | 21.98 | 18.18 | 30.00 | Pass |

## 2. Peak-to-Average Ratio

### 2.1. Test Results

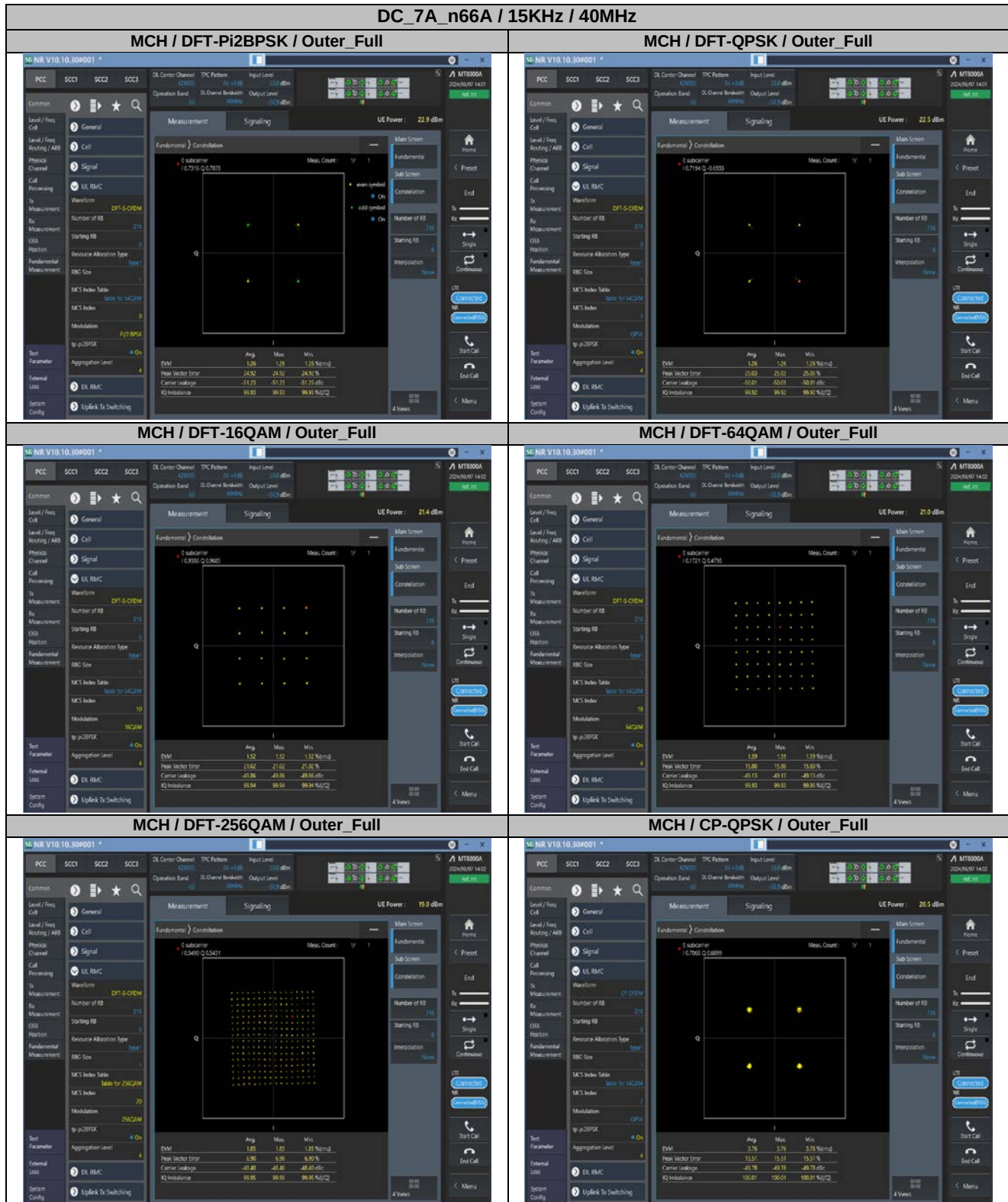
| SCS   | Bandwidth | Channel | RB         | Result (dB) |          | Limit (dB) | Verdict |
|-------|-----------|---------|------------|-------------|----------|------------|---------|
|       |           |         |            | DFT-Pi2BPSK | DFT-QPSK |            |         |
| 15KHz | 40MHz     | LCH     | Outer_Full | 9.34        | 8.21     | 13.00      | Pass    |
| 15KHz | 40MHz     | MCH     | Outer_Full | 9.02        | 7.89     | 13.00      | Pass    |
| 15KHz | 40MHz     | HCH     | Outer_Full | 9.37        | 7.59     | 13.00      | Pass    |

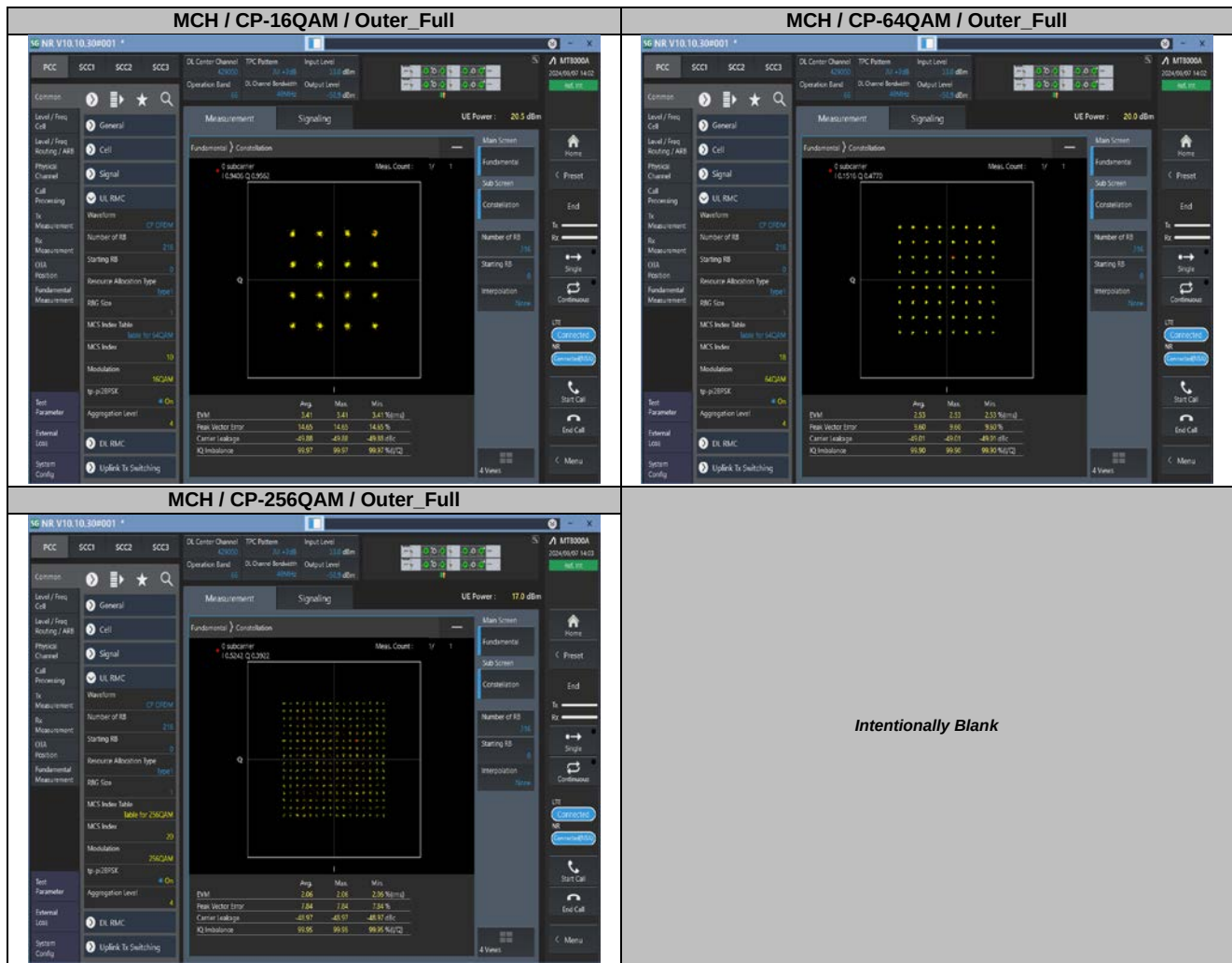
### 2.2. Test Plots



### 3. Modulation Characteristics

#### 3.1. Test Plots







## 4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

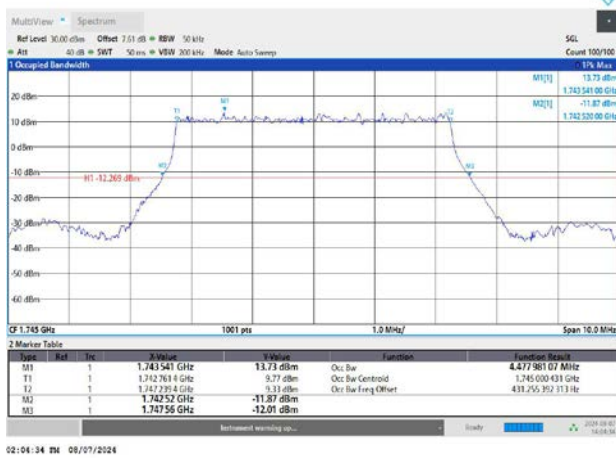
### 4.1. Test Results

| SCS   | Bandwidth | Modulation  | RB         | 99% Occupied Bandwidth (MHz) | 26dB Emission Bandwidth (MHz) | Verdict |
|-------|-----------|-------------|------------|------------------------------|-------------------------------|---------|
| 15KHz | 5MHz      | DFT-Pi2BPSK | Outer_Full | 4.48                         | 5.04                          | Pass    |
| 15KHz | 5MHz      | DFT-QPSK    | Outer_Full | 4.47                         | 5.04                          | Pass    |
| 15KHz | 5MHz      | CP-QPSK     | Outer_Full | 4.50                         | 5.14                          | Pass    |
| 15KHz | 5MHz      | CP-16QAM    | Outer_Full | 4.49                         | 5.17                          | Pass    |
| 15KHz | 5MHz      | CP-64QAM    | Outer_Full | 4.49                         | 5.11                          | Pass    |
| 15KHz | 5MHz      | CP-256QAM   | Outer_Full | 4.49                         | 5.16                          | Pass    |
| 15KHz | 10MHz     | DFT-Pi2BPSK | Outer_Full | 8.93                         | 9.54                          | Pass    |
| 15KHz | 10MHz     | DFT-QPSK    | Outer_Full | 8.94                         | 9.66                          | Pass    |
| 15KHz | 10MHz     | CP-QPSK     | Outer_Full | 9.29                         | 10.12                         | Pass    |
| 15KHz | 10MHz     | CP-16QAM    | Outer_Full | 9.29                         | 10.04                         | Pass    |
| 15KHz | 10MHz     | CP-64QAM    | Outer_Full | 9.30                         | 10.06                         | Pass    |
| 15KHz | 10MHz     | CP-256QAM   | Outer_Full | 9.32                         | 10.16                         | Pass    |
| 15KHz | 15MHz     | DFT-Pi2BPSK | Outer_Full | 13.43                        | 14.31                         | Pass    |
| 15KHz | 15MHz     | DFT-QPSK    | Outer_Full | 13.42                        | 14.40                         | Pass    |
| 15KHz | 15MHz     | CP-QPSK     | Outer_Full | 14.12                        | 15.09                         | Pass    |
| 15KHz | 15MHz     | CP-16QAM    | Outer_Full | 14.13                        | 15.03                         | Pass    |
| 15KHz | 15MHz     | CP-64QAM    | Outer_Full | 14.12                        | 15.03                         | Pass    |
| 15KHz | 15MHz     | CP-256QAM   | Outer_Full | 14.12                        | 15.15                         | Pass    |
| 15KHz | 20MHz     | DFT-Pi2BPSK | Outer_Full | 17.85                        | 18.92                         | Pass    |
| 15KHz | 20MHz     | DFT-QPSK    | Outer_Full | 17.87                        | 18.88                         | Pass    |
| 15KHz | 20MHz     | CP-QPSK     | Outer_Full | 18.93                        | 20.04                         | Pass    |
| 15KHz | 20MHz     | CP-16QAM    | Outer_Full | 18.97                        | 20.00                         | Pass    |
| 15KHz | 20MHz     | CP-64QAM    | Outer_Full | 18.95                        | 20.04                         | Pass    |
| 15KHz | 20MHz     | CP-256QAM   | Outer_Full | 19.03                        | 20.12                         | Pass    |
| 15KHz | 25MHz     | DFT-Pi2BPSK | Outer_Full | 22.88                        | 24.05                         | Pass    |
| 15KHz | 25MHz     | DFT-QPSK    | Outer_Full | 22.97                        | 24.00                         | Pass    |
| 15KHz | 25MHz     | CP-QPSK     | Outer_Full | 23.75                        | 25.00                         | Pass    |
| 15KHz | 25MHz     | CP-16QAM    | Outer_Full | 23.75                        | 25.00                         | Pass    |
| 15KHz | 25MHz     | CP-64QAM    | Outer_Full | 23.76                        | 24.95                         | Pass    |
| 15KHz | 25MHz     | CP-256QAM   | Outer_Full | 23.77                        | 24.80                         | Pass    |
| 15KHz | 30MHz     | DFT-Pi2BPSK | Outer_Full | 28.58                        | 29.82                         | Pass    |
| 15KHz | 30MHz     | DFT-QPSK    | Outer_Full | 28.59                        | 29.88                         | Pass    |
| 15KHz | 30MHz     | CP-QPSK     | Outer_Full | 28.57                        | 29.94                         | Pass    |
| 15KHz | 30MHz     | CP-16QAM    | Outer_Full | 28.56                        | 29.76                         | Pass    |
| 15KHz | 30MHz     | CP-64QAM    | Outer_Full | 28.59                        | 29.88                         | Pass    |
| 15KHz | 30MHz     | CP-256QAM   | Outer_Full | 28.60                        | 29.88                         | Pass    |
| 15KHz | 35MHz     | DFT-Pi2BPSK | Outer_Full | 32.15                        | 33.53                         | Pass    |
| 15KHz | 35MHz     | DFT-QPSK    | Outer_Full | 32.18                        | 33.60                         | Pass    |
| 15KHz | 35MHz     | CP-QPSK     | Outer_Full | 33.63                        | 35.00                         | Pass    |
| 15KHz | 35MHz     | CP-16QAM    | Outer_Full | 33.61                        | 35.00                         | Pass    |
| 15KHz | 35MHz     | CP-64QAM    | Outer_Full | 33.62                        | 35.00                         | Pass    |
| 15KHz | 35MHz     | CP-256QAM   | Outer_Full | 33.58                        | 35.00                         | Pass    |
| 15KHz | 40MHz     | DFT-Pi2BPSK | Outer_Full | 38.54                        | 39.92                         | Pass    |
| 15KHz | 40MHz     | DFT-QPSK    | Outer_Full | 38.64                        | 40.16                         | Pass    |
| 15KHz | 40MHz     | CP-QPSK     | Outer_Full | 38.55                        | 40.08                         | Pass    |
| 15KHz | 40MHz     | CP-16QAM    | Outer_Full | 38.58                        | 40.08                         | Pass    |
| 15KHz | 40MHz     | CP-64QAM    | Outer_Full | 38.60                        | 40.08                         | Pass    |
| 15KHz | 40MHz     | CP-256QAM   | Outer_Full | 38.61                        | 40.00                         | Pass    |

## 4.2. Test Plots

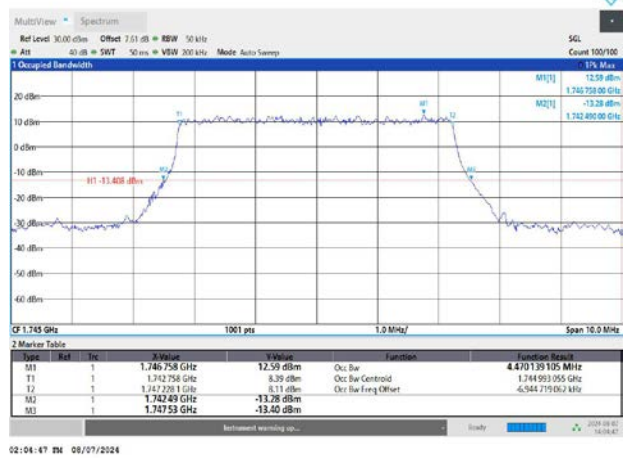
## DC\_7A\_n66A / 15KHz / 5MHz

## MCH / DFT-Pi2BPSK / Outer\_Full



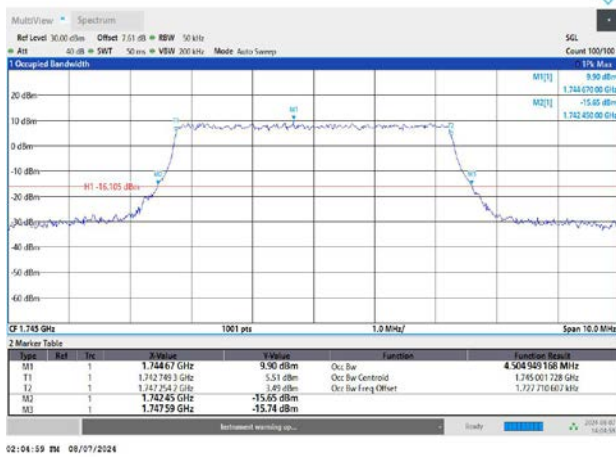
02:04:34 PM 08/07/2024

## MCH / DFT-QPSK / Outer\_Full



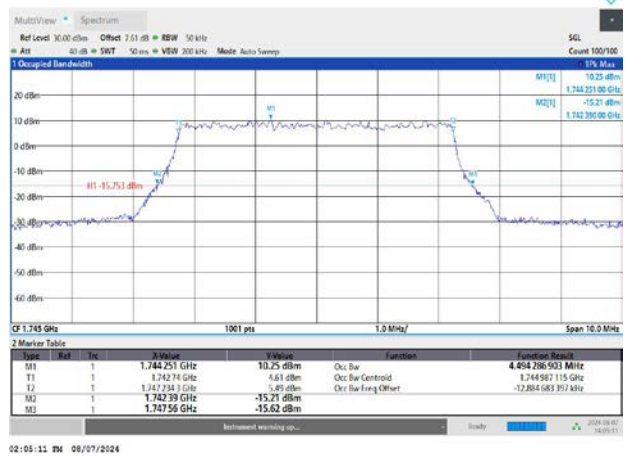
02:04:47 PM 08/07/2024

## MCH / CP-QPSK / Outer\_Full



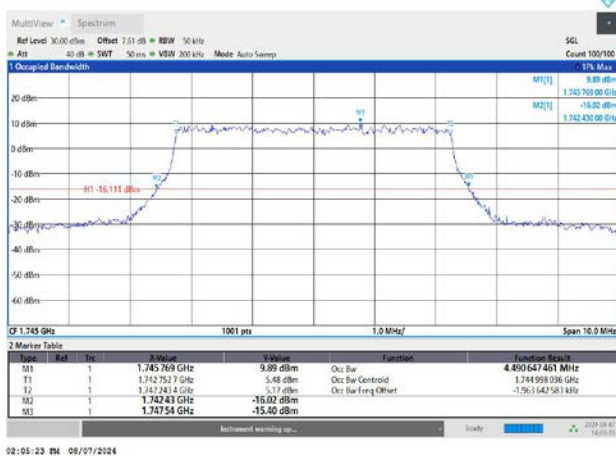
02:04:59 PM 08/07/2024

## MCH / CP-16QAM / Outer\_Full



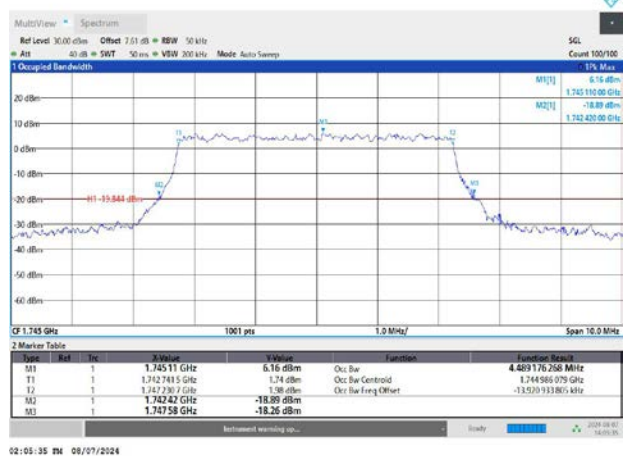
02:05:11 PM 08/07/2024

## MCH / CP-64QAM / Outer\_Full



02:05:23 PM 08/07/2024

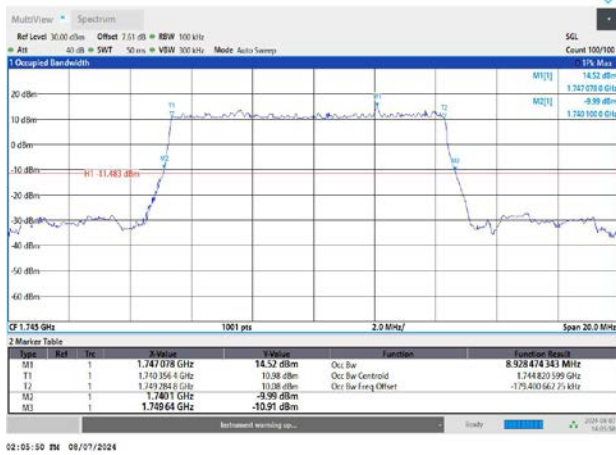
## MCH / CP-256QAM / Outer\_Full



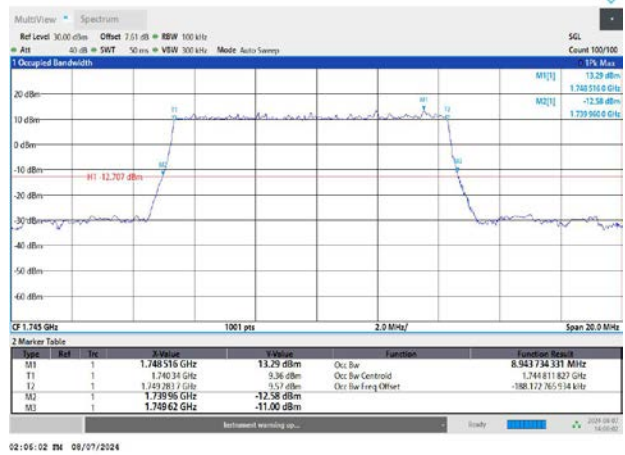
02:05:35 PM 08/07/2024

## DC\_7A\_n66A / 15KHz / 10MHz

## MCH / DFT-Pi2BPSK / Outer\_Full



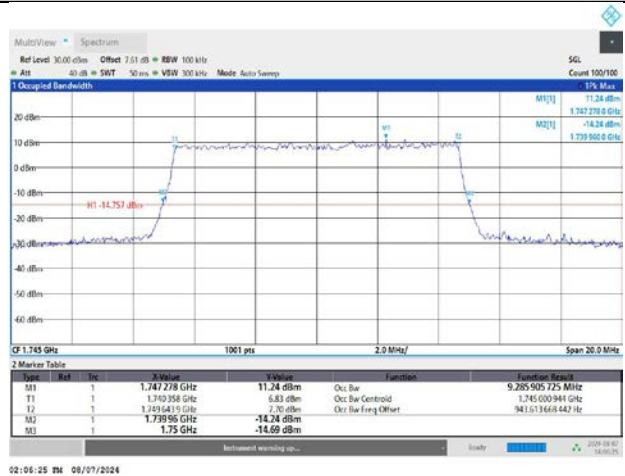
## MCH / DFT-QPSK / Outer\_Full



## MCH / CP-QPSK / Outer\_Full



## MCH / CP-16QAM / Outer\_Full



## MCH / CP-64QAM / Outer\_Full

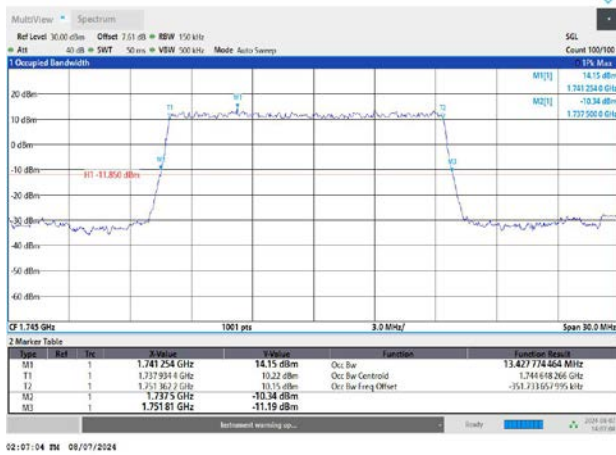


## MCH / CP-256QAM / Outer\_Full

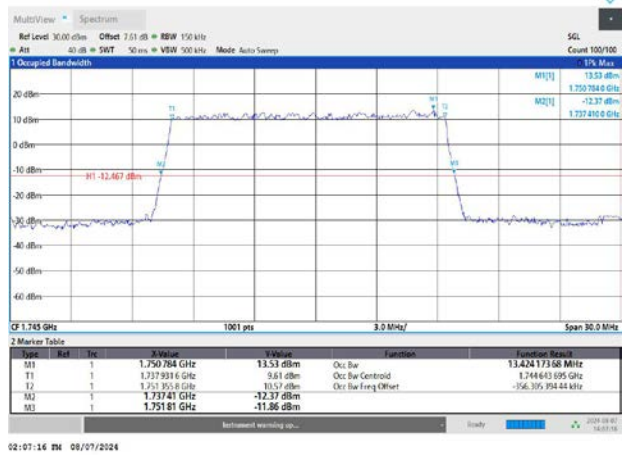


## DC\_7A\_n66A / 15KHz / 15MHz

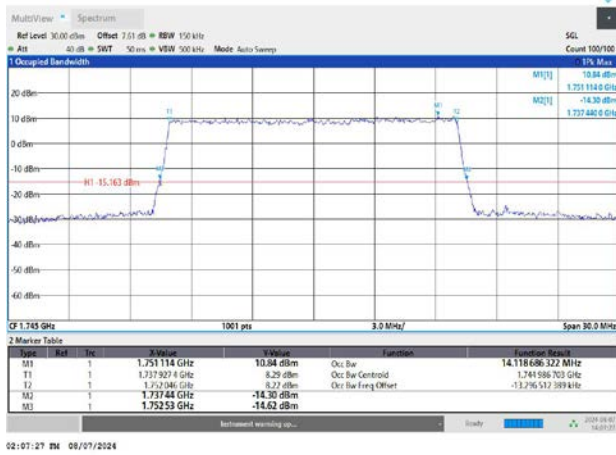
## MCH / DFT-Pi2BPSK / Outer\_Full



## MCH / DFT-QPSK / Outer\_Full



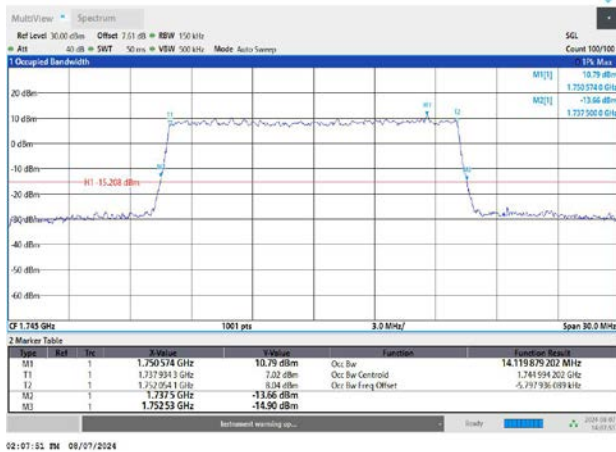
## MCH / CP-QPSK / Outer\_Full



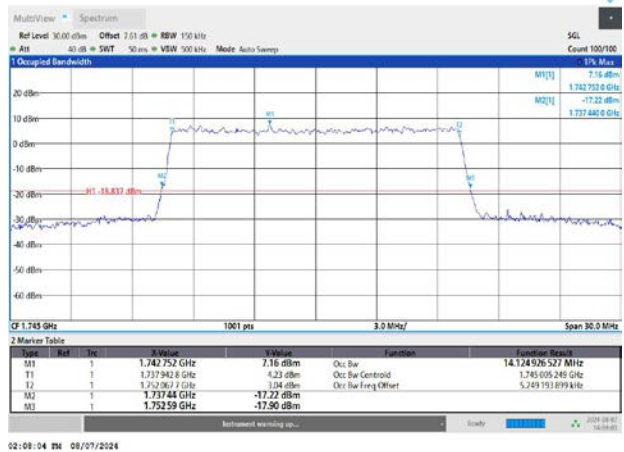
## MCH / CP-16QAM / Outer\_Full



## MCH / CP-64QAM / Outer\_Full

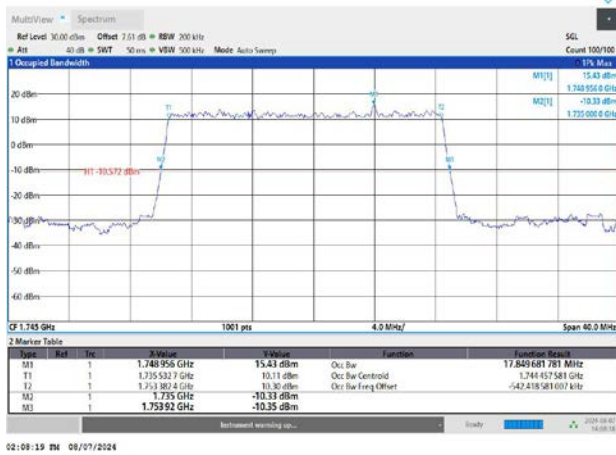


## MCH / CP-256QAM / Outer\_Full

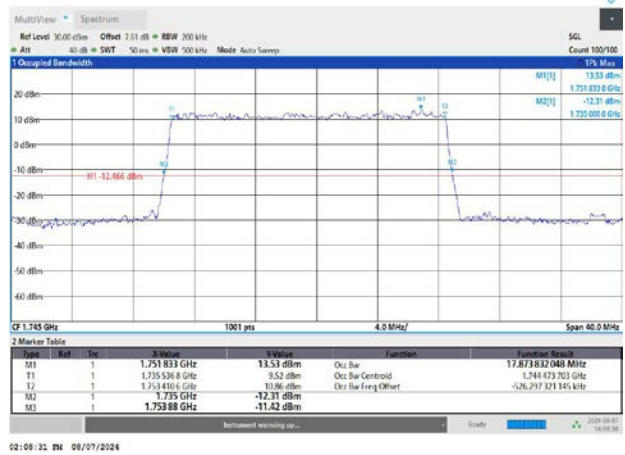


## DC\_7A\_n66A / 15KHz / 20MHz

## MCH / DFT-Pi2BPSK / Outer\_Full



## MCH / DFT-QPSK / Outer\_Full



## MCH / CP-QPSK / Outer\_Full



## MCH / CP-16QAM / Outer\_Full



## MCH / CP-64QAM / Outer\_Full



## MCH / CP-256QAM / Outer\_Full





## DC\_7A\_n66A / 15KHz / 25MHz

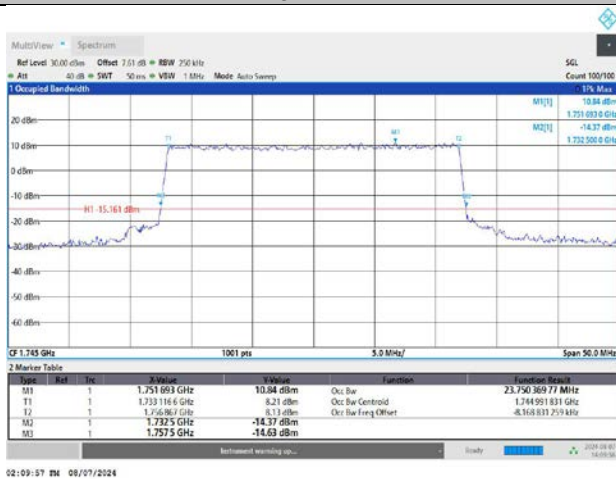
## MCH / DFT-Pi2BPSK / Outer\_Full



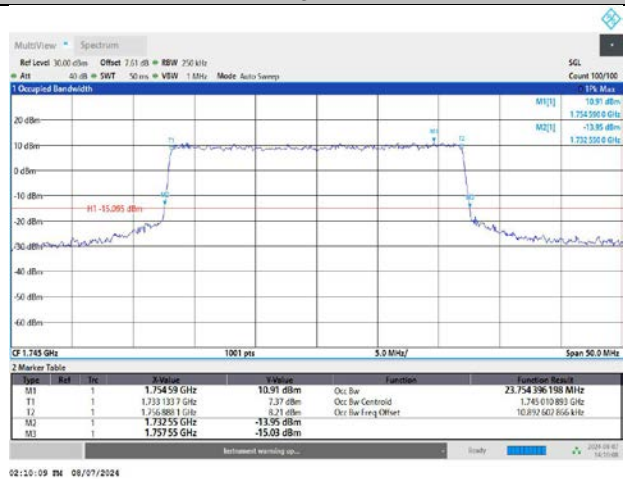
## MCH / DFT-QPSK / Outer\_Full



## MCH / CP-QPSK / Outer\_Full



## MCH / CP-16QAM / Outer\_Full



## MCH / CP-64QAM / Outer\_Full

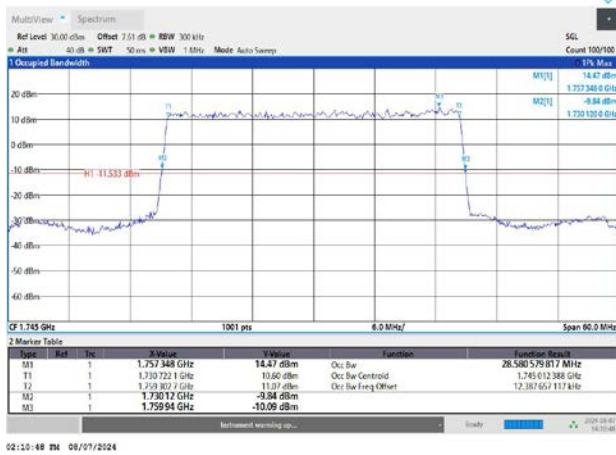


## MCH / CP-256QAM / Outer\_Full



## DC\_7A\_n66A / 15KHz / 30MHz

## MCH / DFT-Pi2BPSK / Outer\_Full



## MCH / DFT-QPSK / Outer\_Full



## MCH / CP-QPSK / Outer\_Full



## MCH / CP-16QAM / Outer\_Full



## MCH / CP-64QAM / Outer\_Full

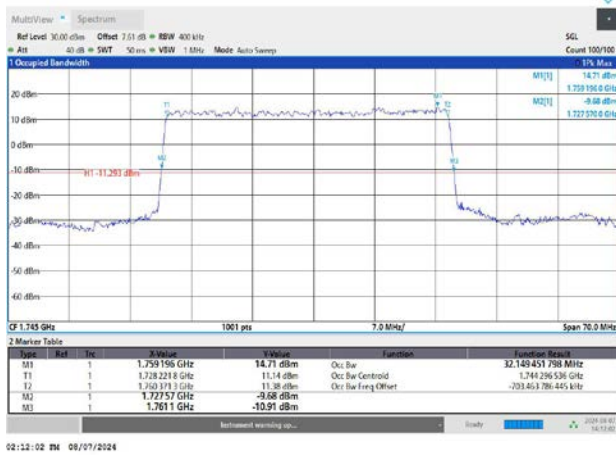


## MCH / CP-256QAM / Outer\_Full



## DC\_7A\_n66A / 15KHz / 35MHz

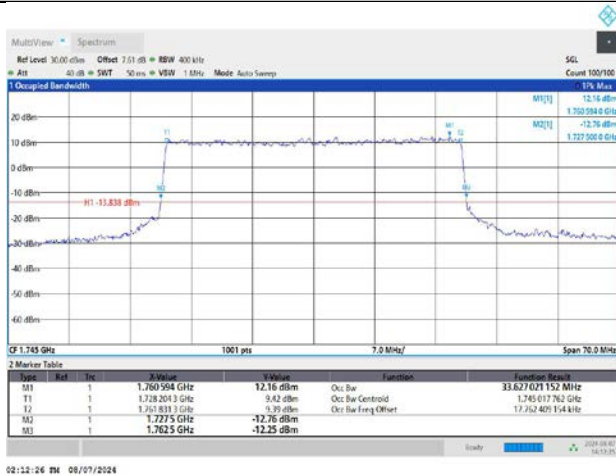
## MCH / DFT-Pi2BPSK / Outer\_Full



## MCH / DFT-QPSK / Outer\_Full



## MCH / CP-QPSK / Outer\_Full



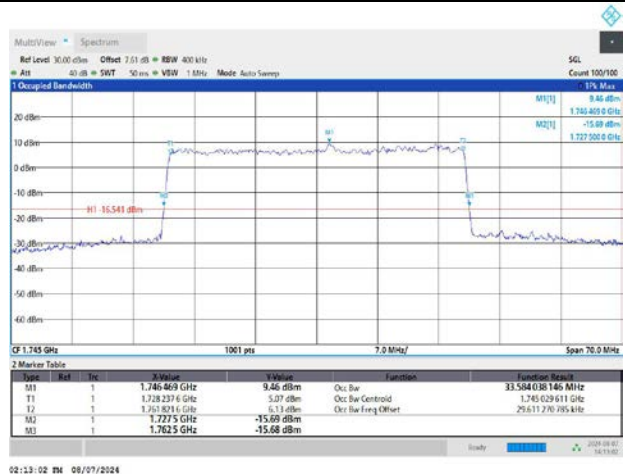
## MCH / CP-16QAM / Outer\_Full



## MCH / CP-64QAM / Outer\_Full



## MCH / CP-256QAM / Outer\_Full





## DC\_7A\_n66A / 15KHz / 40MHz

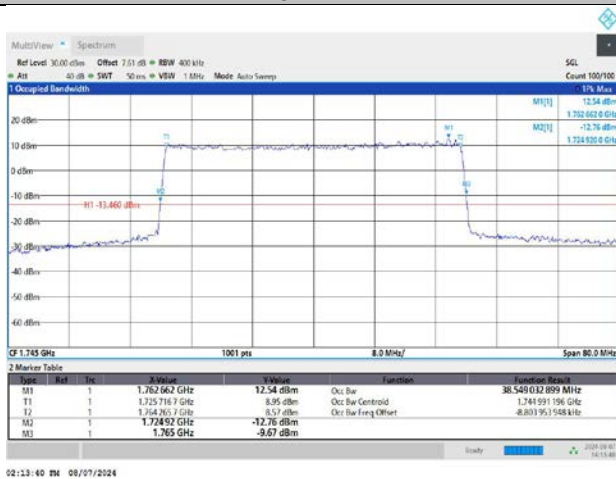
## MCH / DFT-Pi2BPSK / Outer\_Full



## MCH / DFT-QPSK / Outer\_Full



## MCH / CP-QPSK / Outer\_Full



## MCH / CP-16QAM / Outer\_Full



## MCH / CP-64QAM / Outer\_Full

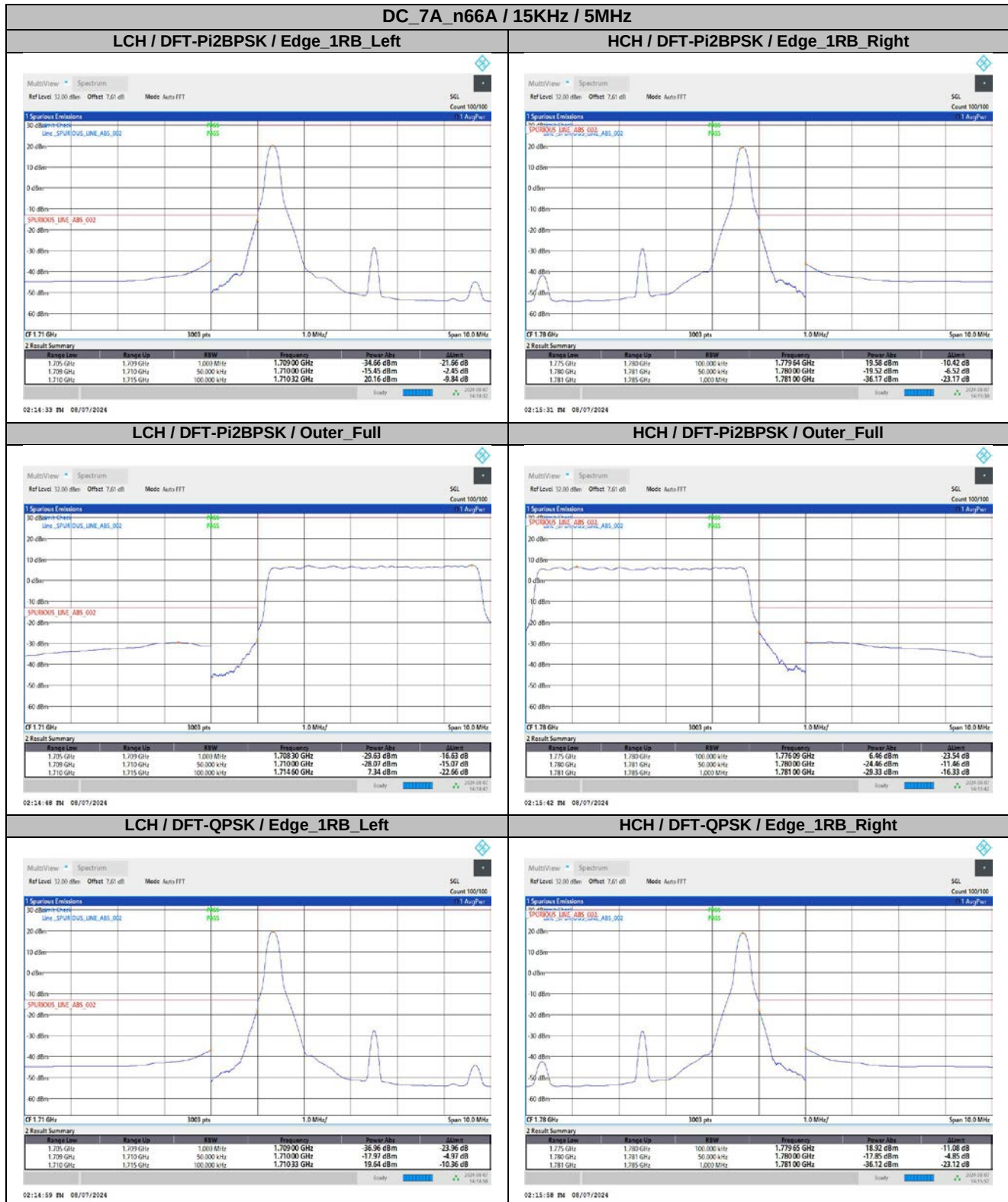


## MCH / CP-256QAM / Outer\_Full



## 5. Conducted Band Edges

### 5.1. Test Plots



## LCH / DFT-QPSK / Outer\_Full

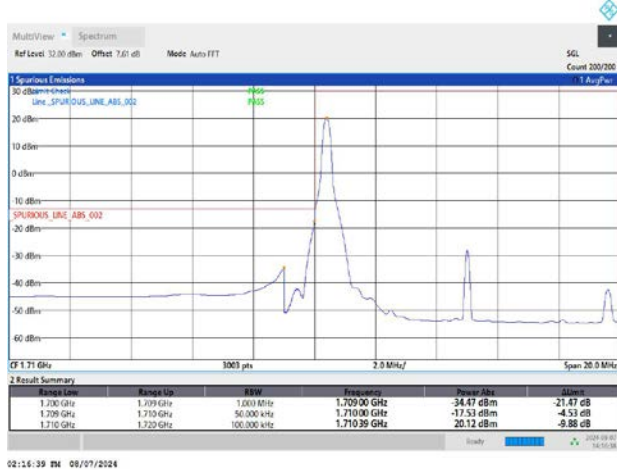


## HCH / DFT-QPSK / Outer\_Full

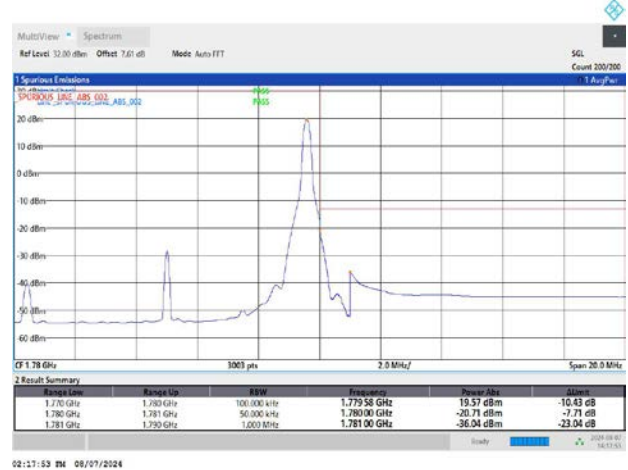


## DC\_7A\_n66A / 15KHz / 10MHz

## LCH / DFT-Pi2BPSK / Edge\_1RB\_Left



## HCH / DFT-Pi2BPSK / Edge\_1RB\_Right



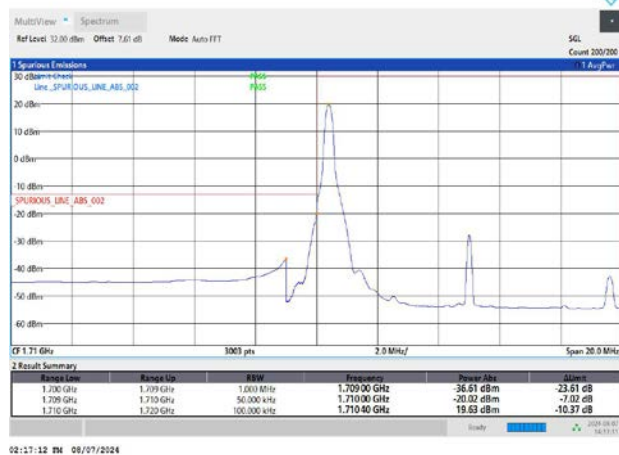
## LCH / DFT-Pi2BPSK / Outer\_Full



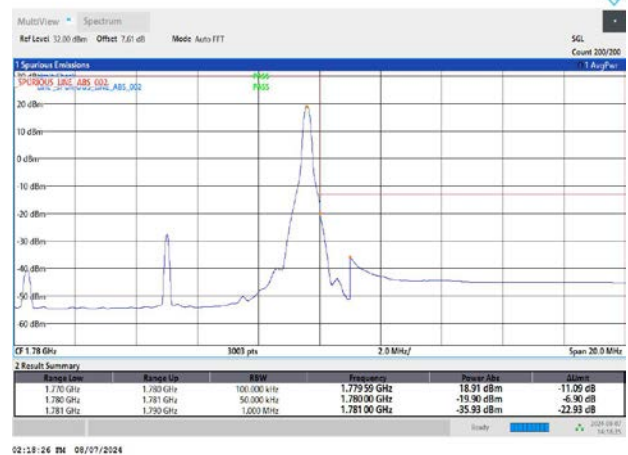
## HCH / DFT-Pi2BPSK / Outer\_Full



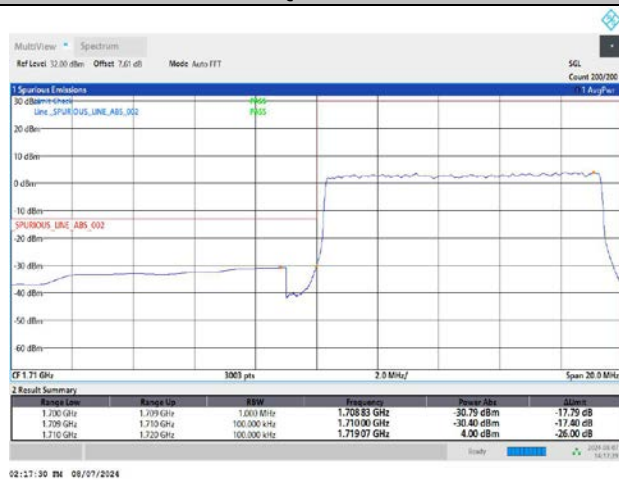
## LCH / DFT-QPSK / Edge\_1RB\_Left



## HCH / DFT-QPSK / Edge\_1RB\_Right



## LCH / DFT-QPSK / Outer\_Full

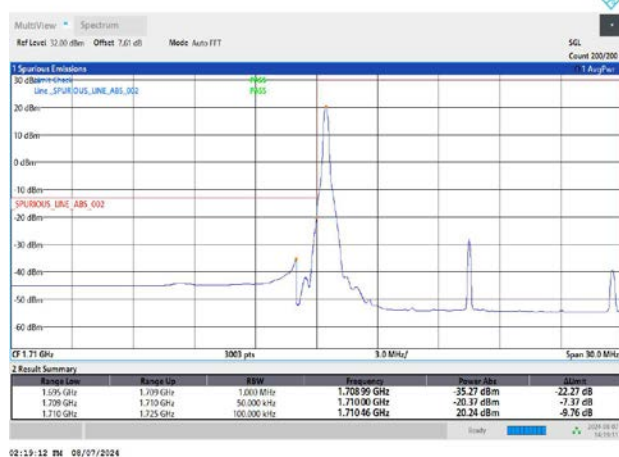


## HCH / DFT-QPSK / Outer\_Full



## DC\_7A\_n66A / 15KHz / 15MHz

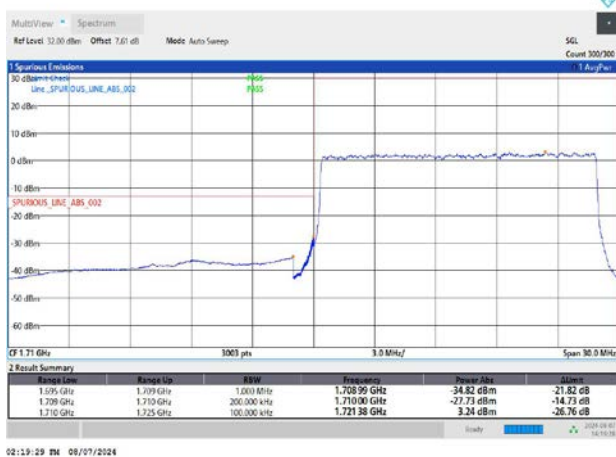
## LCH / DFT-Pi2BPSK / Edge\_1RB\_Left



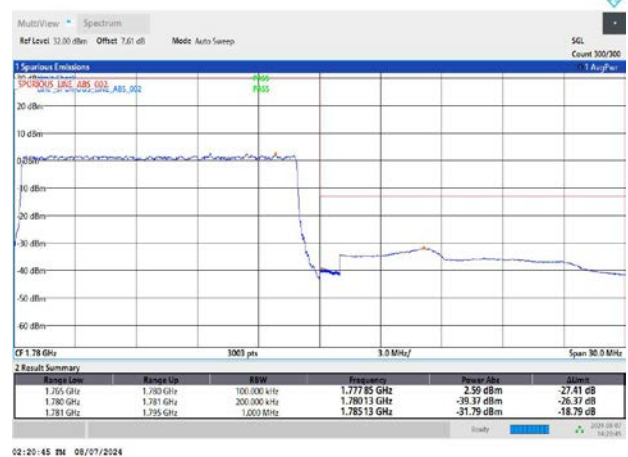
## HCH / DFT-Pi2BPSK / Edge\_1RB\_Right



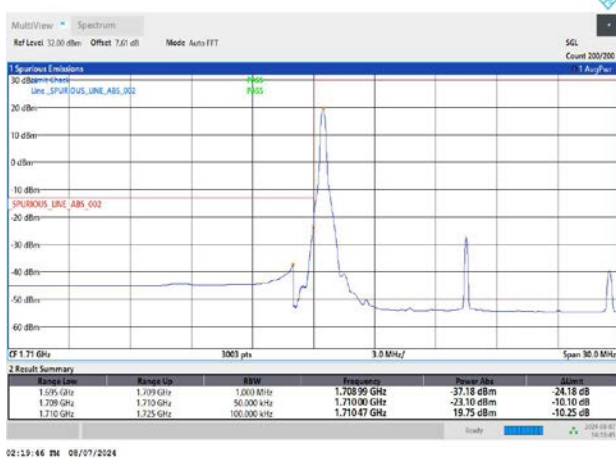
## LCH / DFT-Pi2BPSK / Outer\_Full



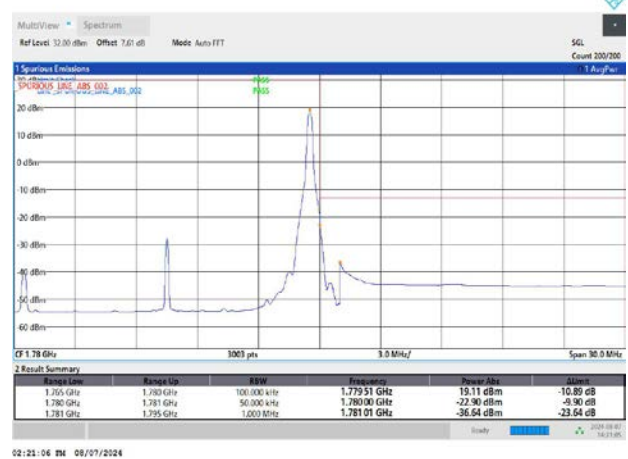
## HCH / DFT-Pi2BPSK / Outer\_Full



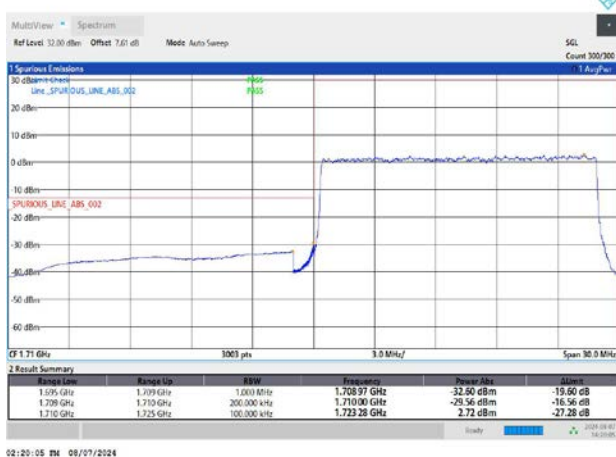
## LCH / DFT-QPSK / Edge\_1RB\_Left



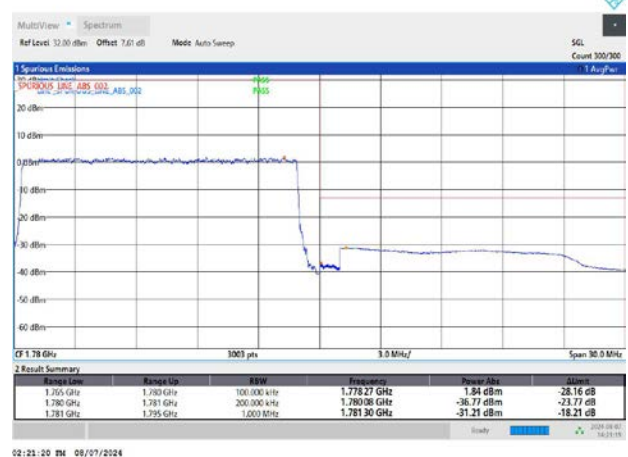
## HCH / DFT-QPSK / Edge\_1RB\_Right



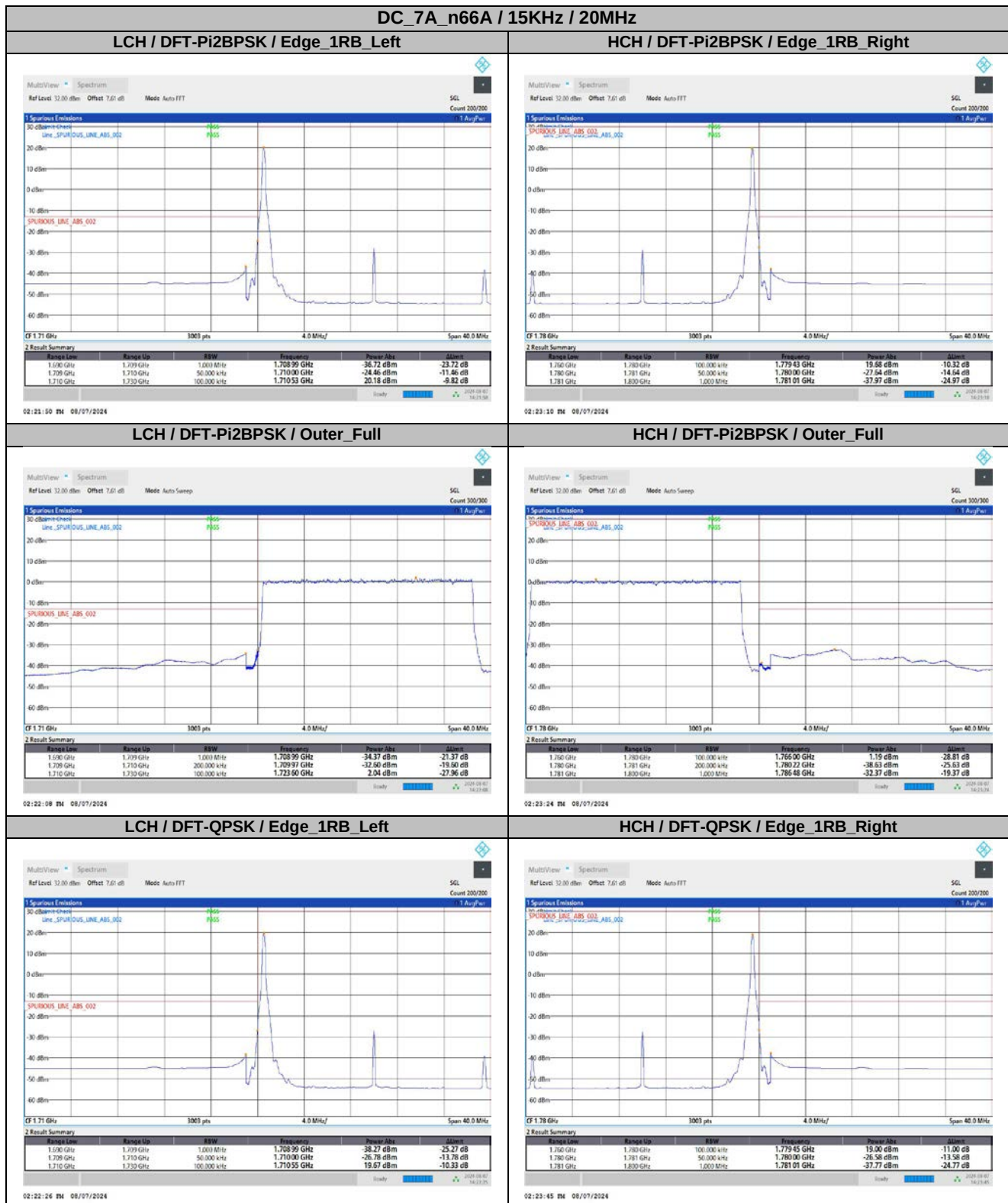
## LCH / DFT-QPSK / Outer\_Full



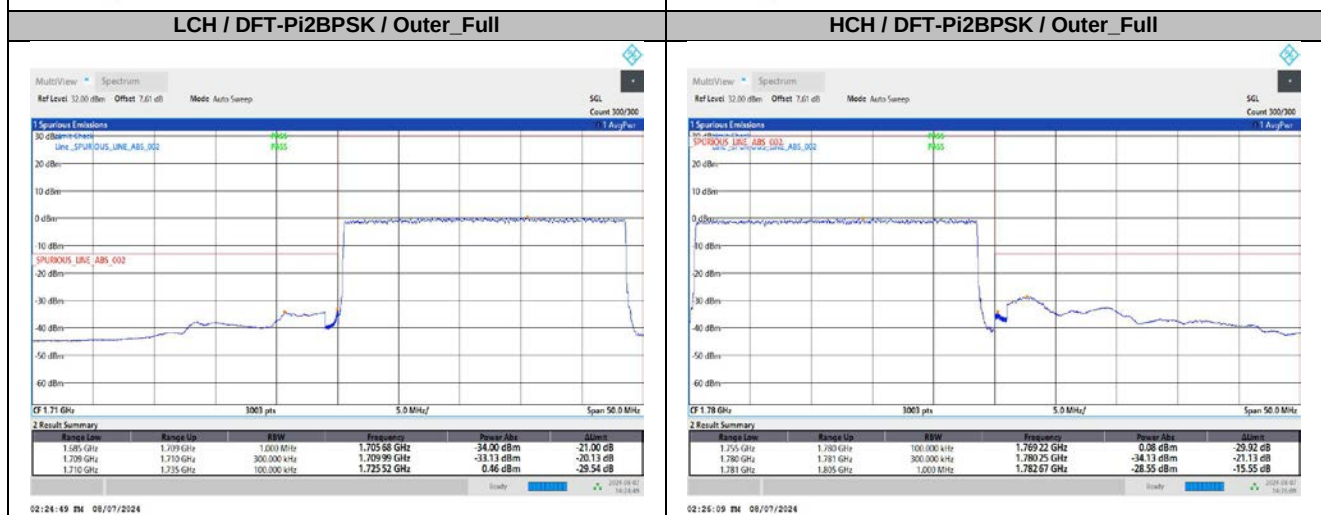
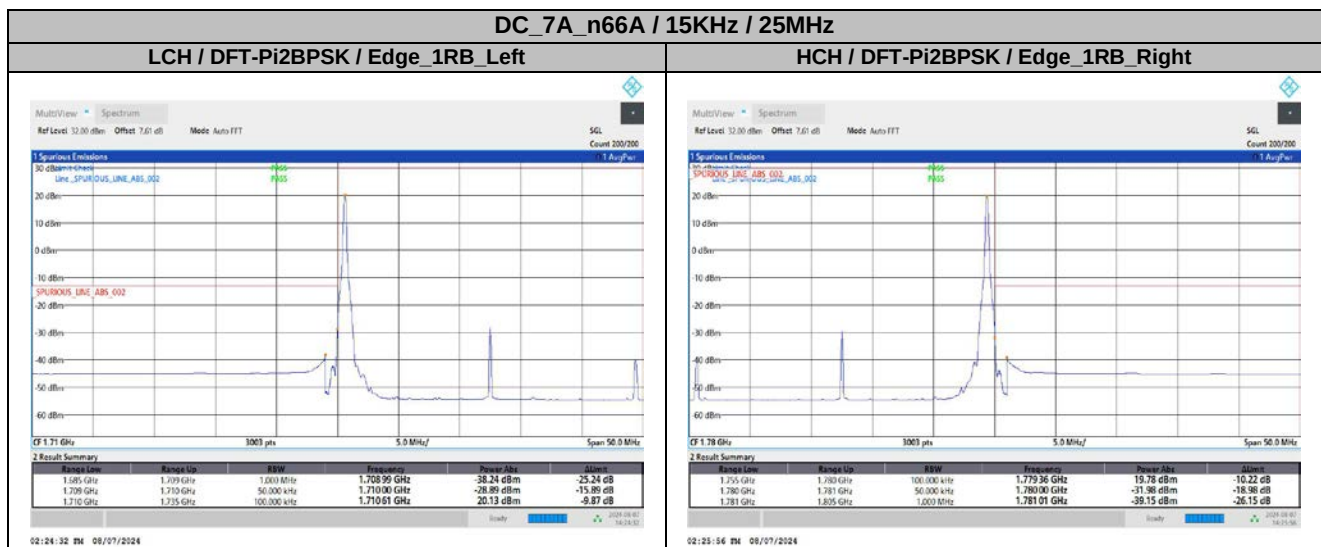
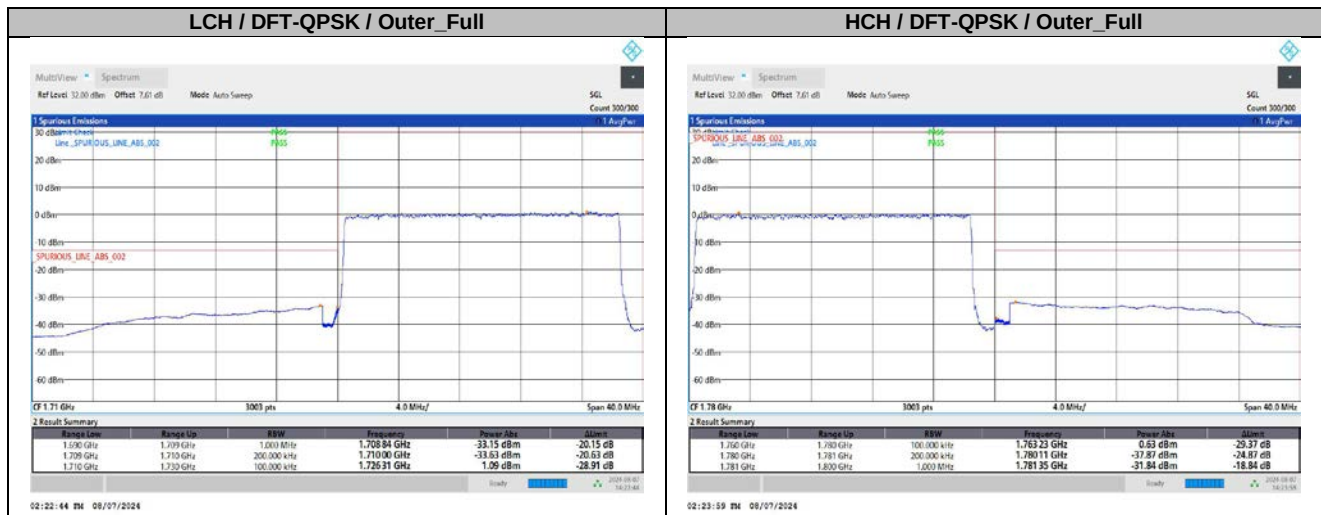
## HCH / DFT-QPSK / Outer\_Full







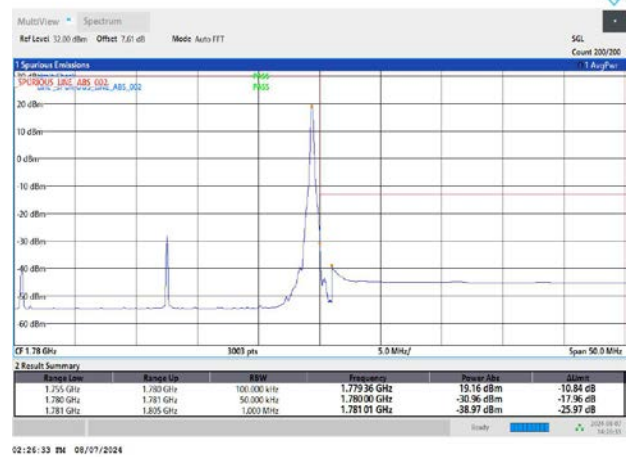




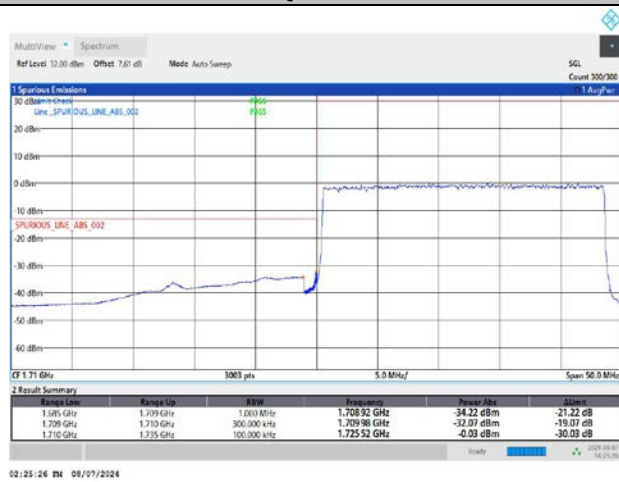
## LCH / DFT-QPSK / Edge\_1RB\_Left



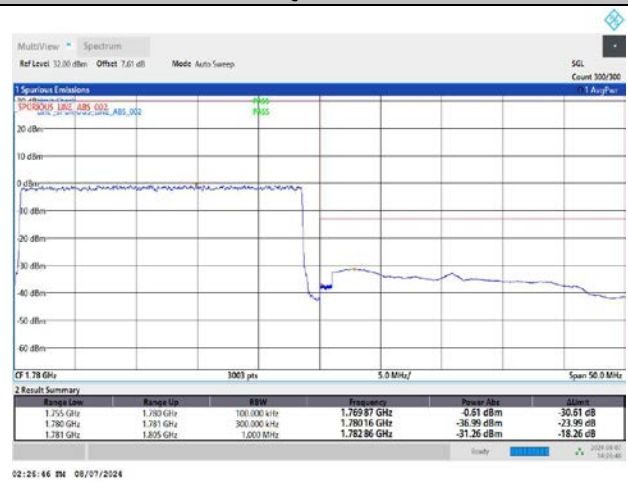
## HCH / DFT-QPSK / Edge\_1RB\_Right



## LCH / DFT-QPSK / Outer\_Full

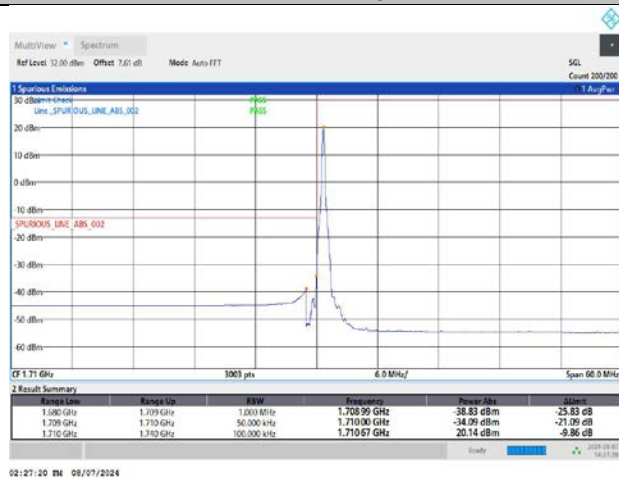


## HCH / DFT-QPSK / Outer\_Full

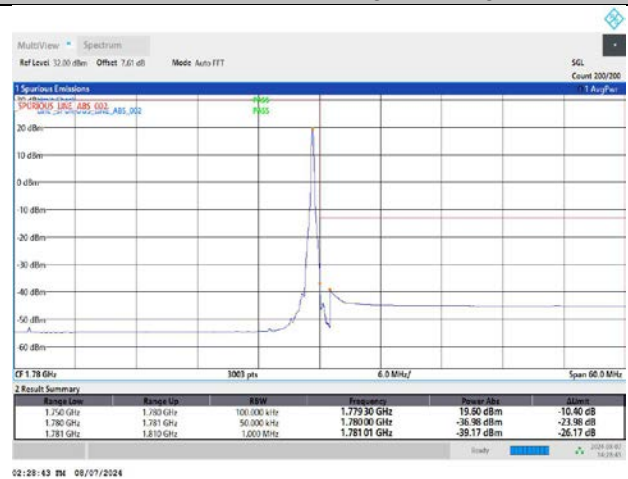


## DC\_7A\_n66A / 15KHz / 30MHz

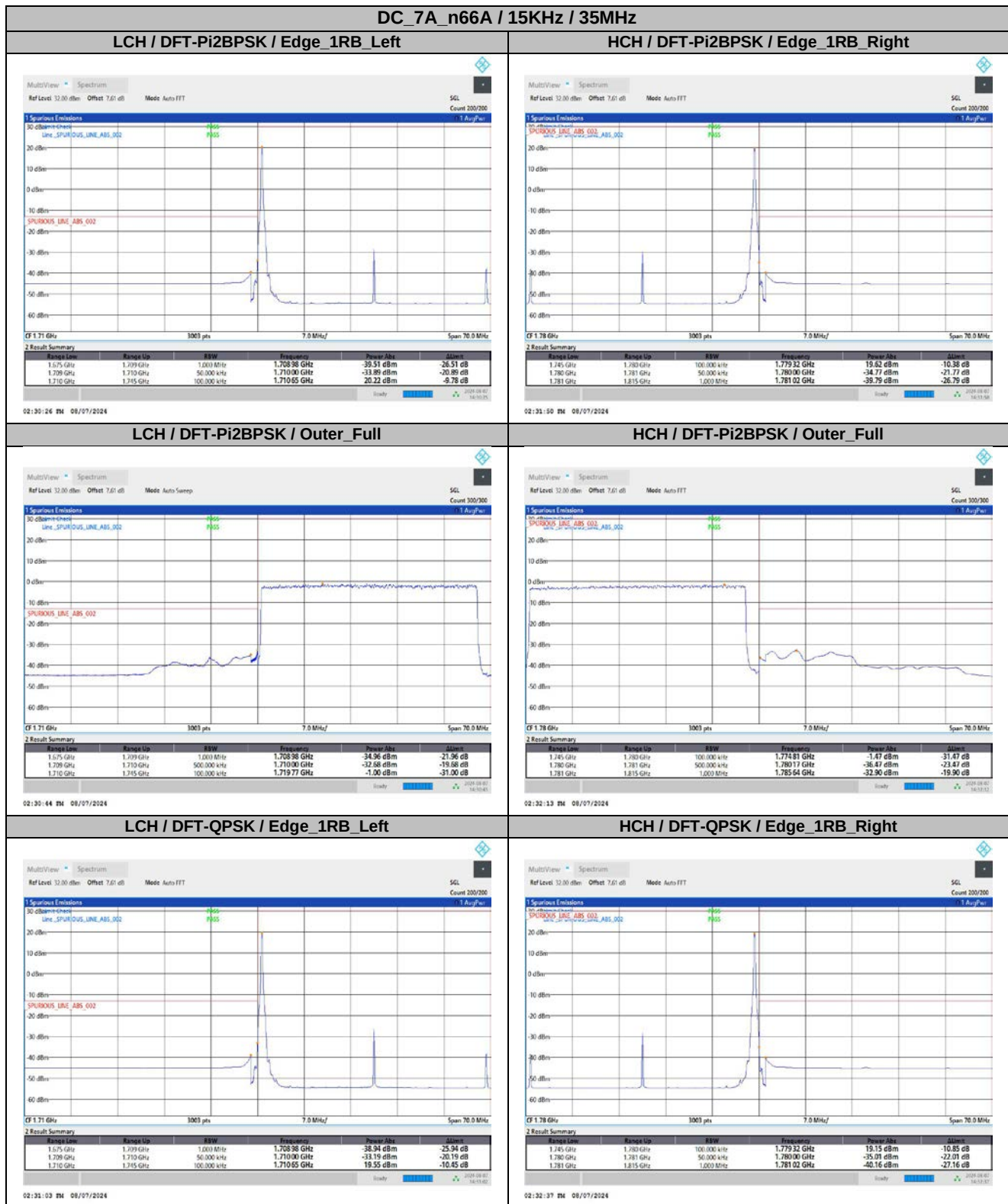
## LCH / DFT-Pi2BPSK / Edge\_1RB\_Left



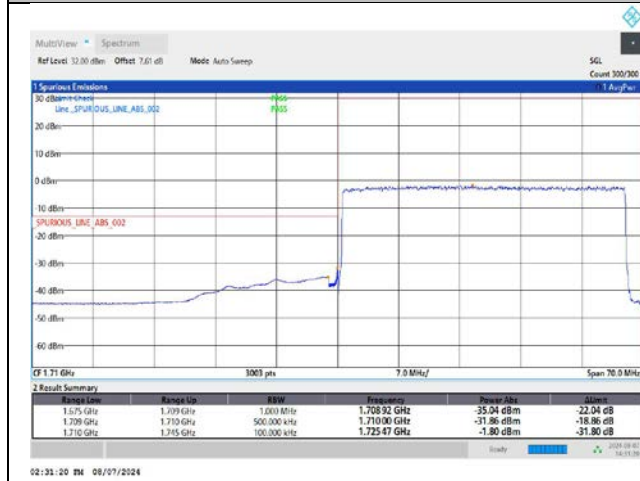
## HCH / DFT-Pi2BPSK / Edge\_1RB\_Right



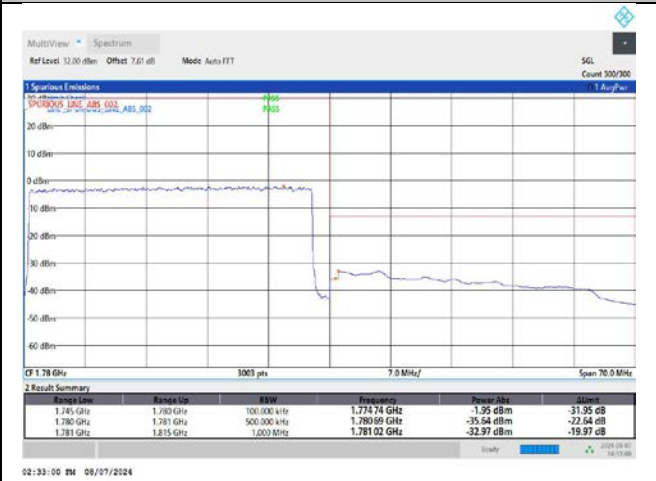




## LCH / DFT-QPSK / Outer\_Full

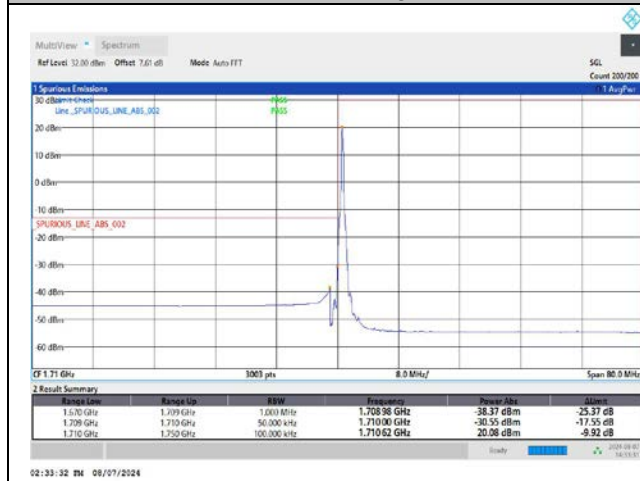


## HCH / DFT-QPSK / Outer\_Full

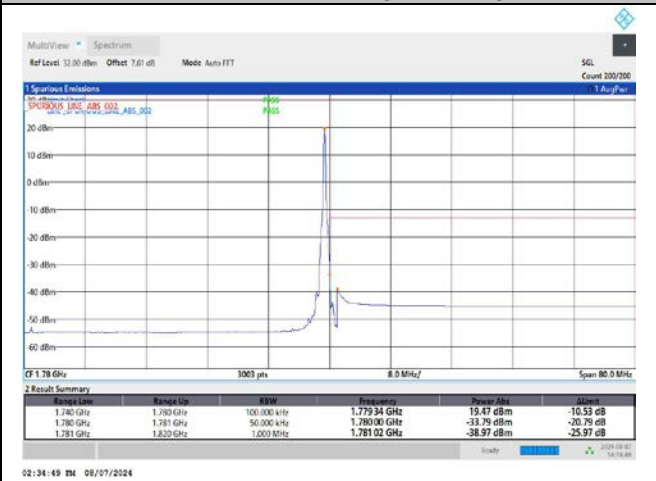


## DC\_7A\_n66A / 15KHz / 40MHz

## LCH / DFT-Pi2BPSK / Edge\_1RB\_Left



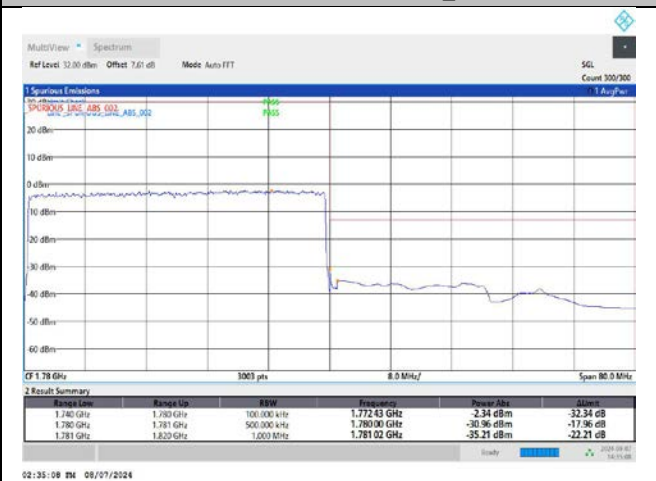
## HCH / DFT-Pi2BPSK / Edge\_1RB\_Right



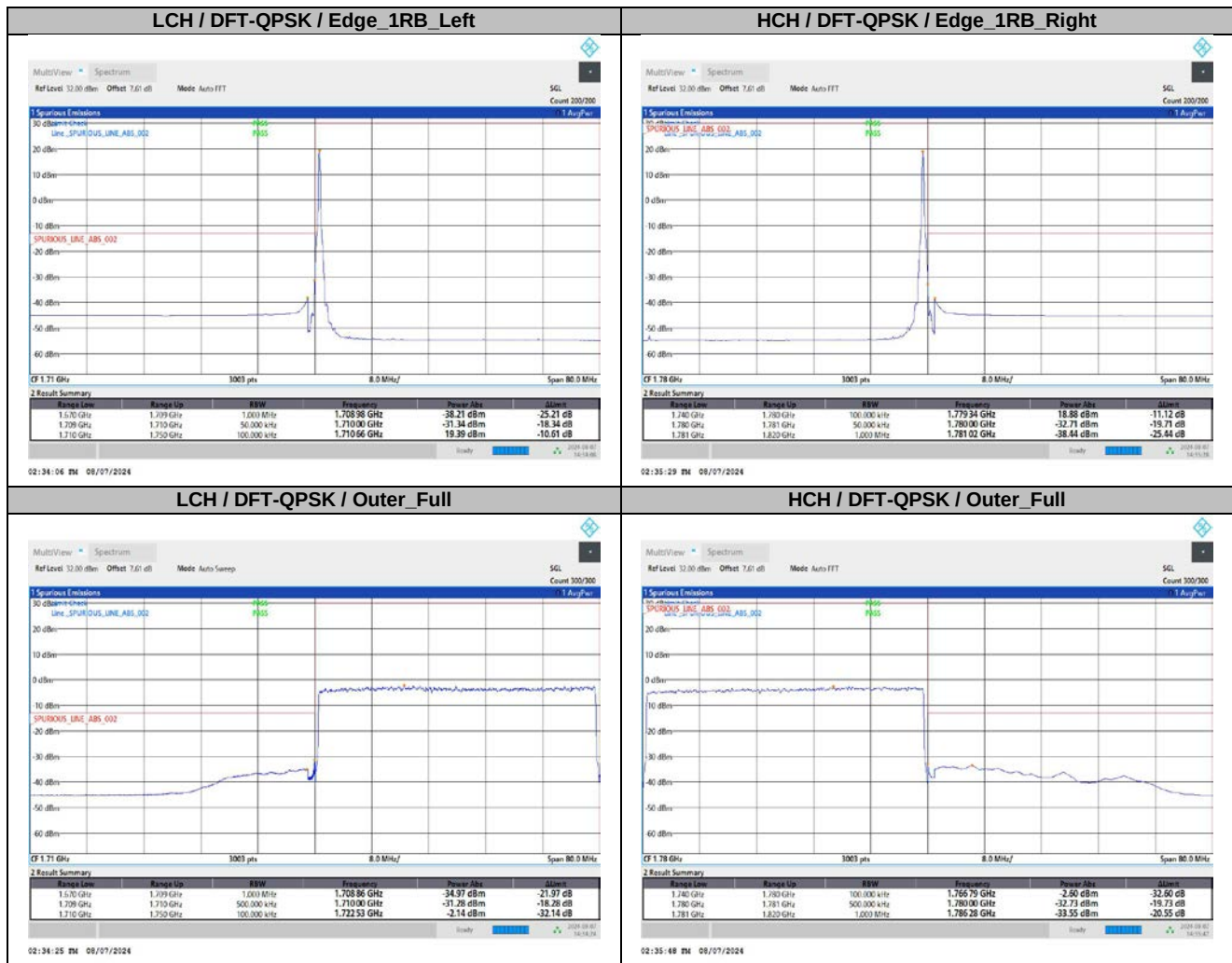
## LCH / DFT-Pi2BPSK / Outer\_Full



## HCH / DFT-Pi2BPSK / Outer\_Full

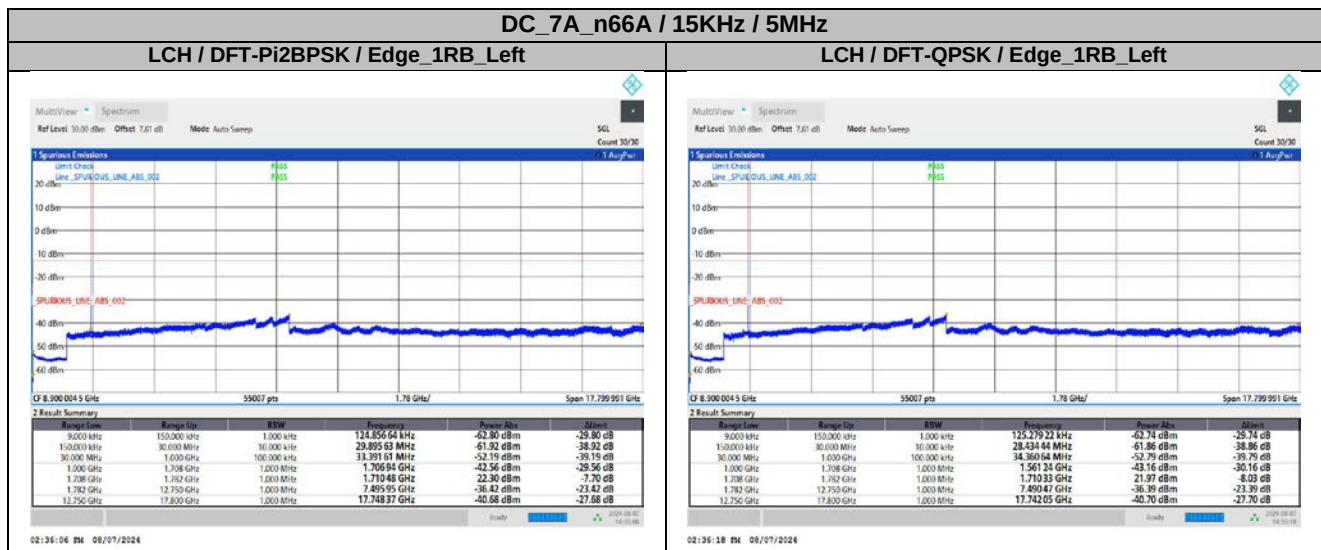






## 6. Conducted Spurious Emission

## 6.1. Test Plots





## MCH / DFT-Pi2BPSK / Edge\_1RB\_Left



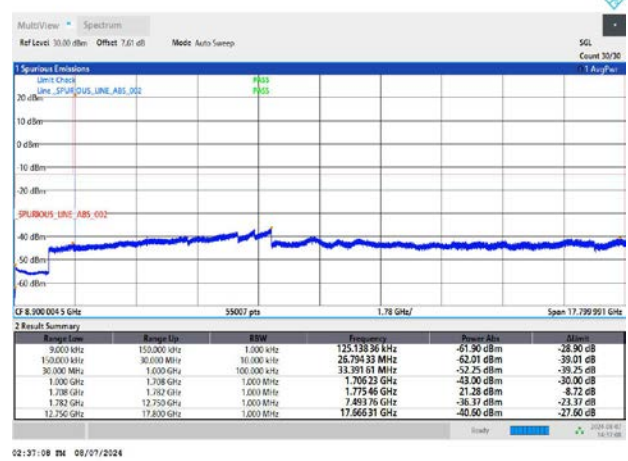
## MCH / DFT-QPSK / Edge\_1RB\_Left



## HCH / DFT-Pi2BPSK / Edge\_1RB\_Left

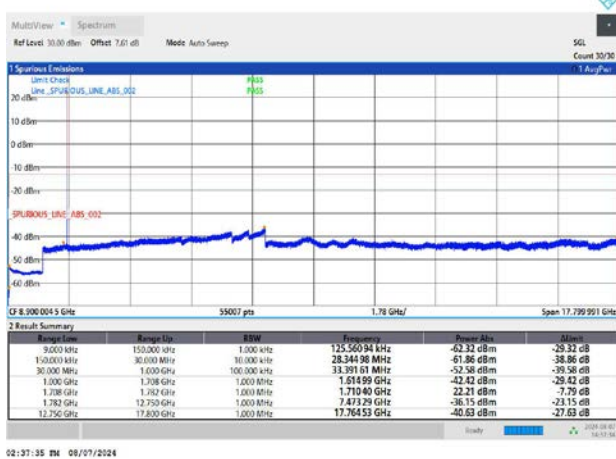


## HCH / DFT-QPSK / Edge\_1RB\_Left



## DC\_7A\_n66A / 15KHz / 10MHz

## LCH / DFT-Pi2BPSK / Edge\_1RB\_Left



## LCH / DFT-QPSK / Edge\_1RB\_Left



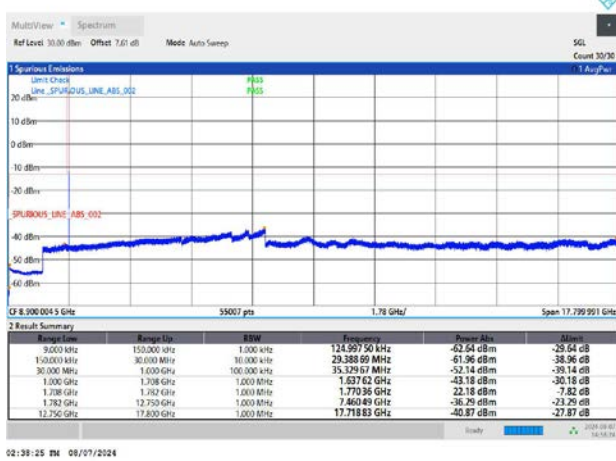
## MCH / DFT-Pi2BPSK / Edge\_1RB\_Left



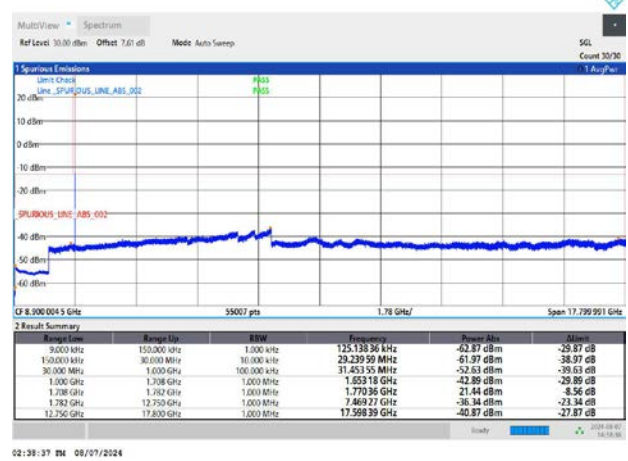
## MCH / DFT-QPSK / Edge\_1RB\_Left



## HCH / DFT-Pi2BPSK / Edge\_1RB\_Left

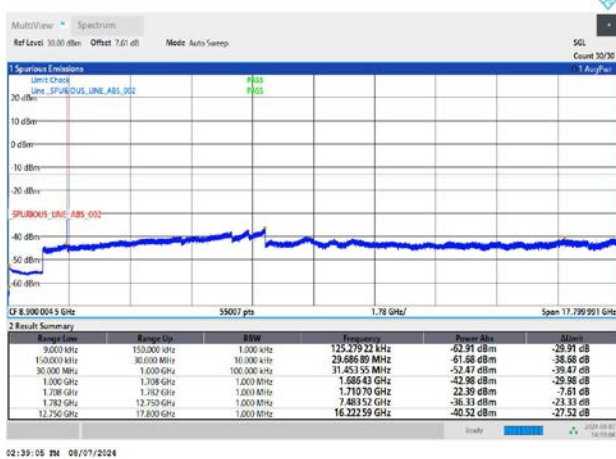


## HCH / DFT-QPSK / Edge\_1RB\_Left

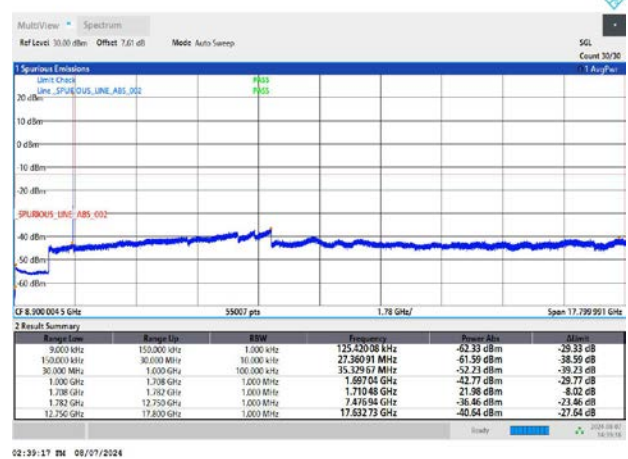


## DC\_7A\_n66A / 15KHz / 15MHz

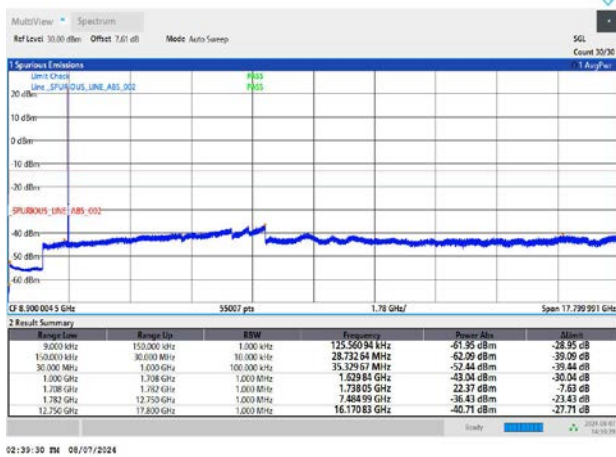
## LCH / DFT-Pi2BPSK / Edge\_1RB\_Left



## LCH / DFT-QPSK / Edge\_1RB\_Left



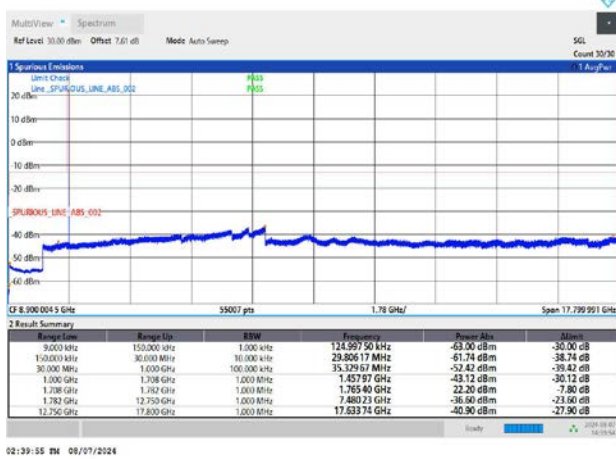
## MCH / DFT-Pi2BPSK / Edge\_1RB\_Left



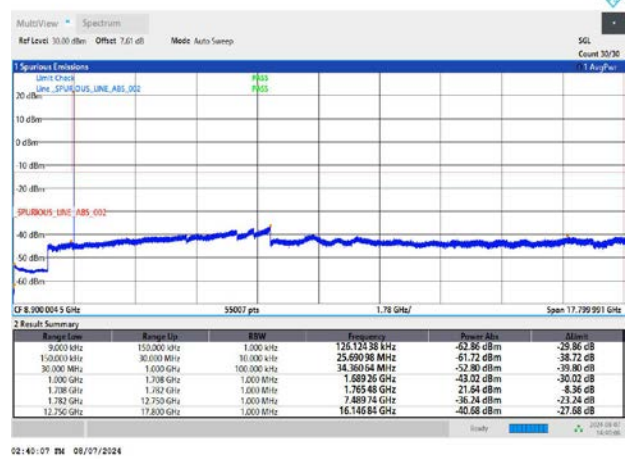
## MCH / DFT-QPSK / Edge\_1RB\_Left



## HCH / DFT-Pi2BPSK / Edge\_1RB\_Left



## HCH / DFT-QPSK / Edge\_1RB\_Left

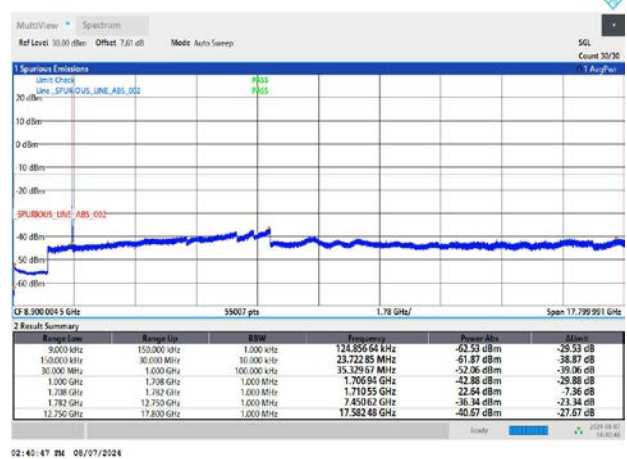


## DC\_7A\_n66A / 15KHz / 20MHz

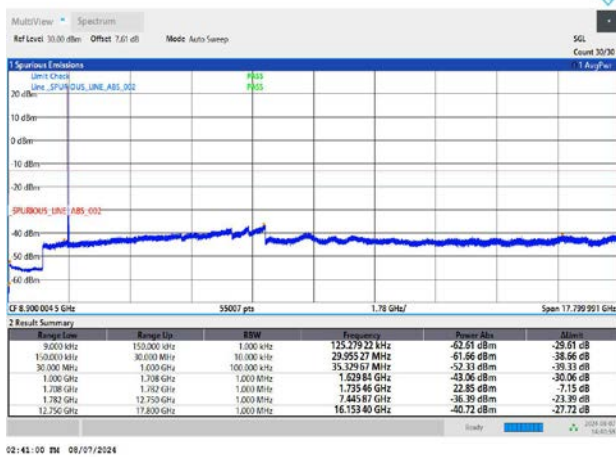
## LCH / DFT-Pi2BPSK / Edge\_1RB\_Left



## LCH / DFT-QPSK / Edge\_1RB\_Left



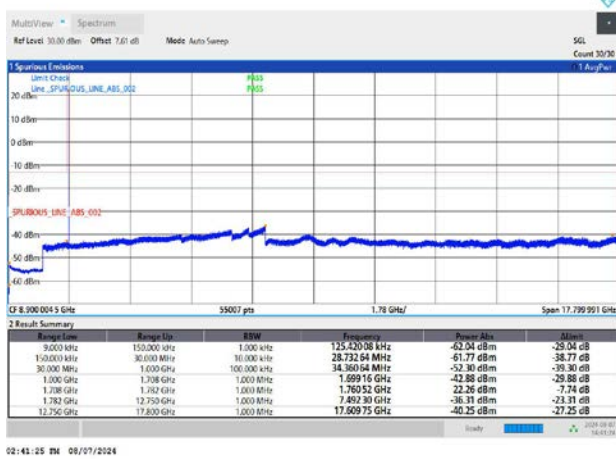
## MCH / DFT-Pi2BPSK / Edge\_1RB\_Left



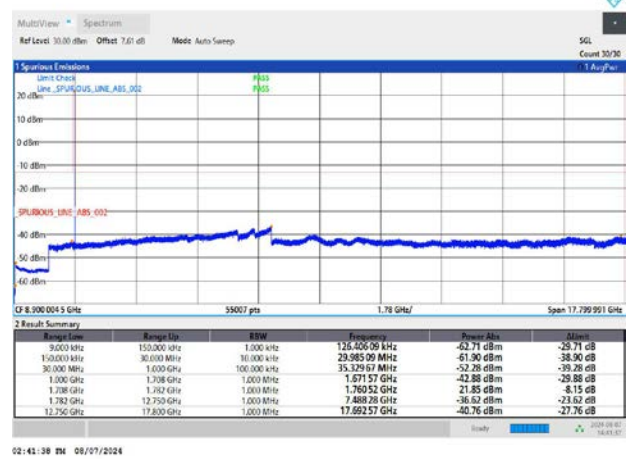
## MCH / DFT-QPSK / Edge\_1RB\_Left



## HCH / DFT-Pi2BPSK / Edge\_1RB\_Left

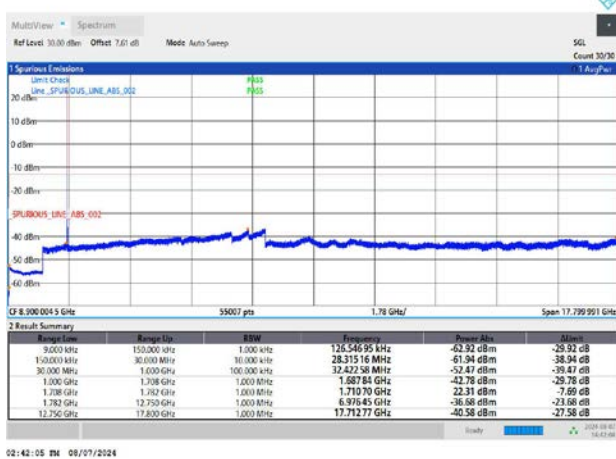


## HCH / DFT-QPSK / Edge\_1RB\_Left

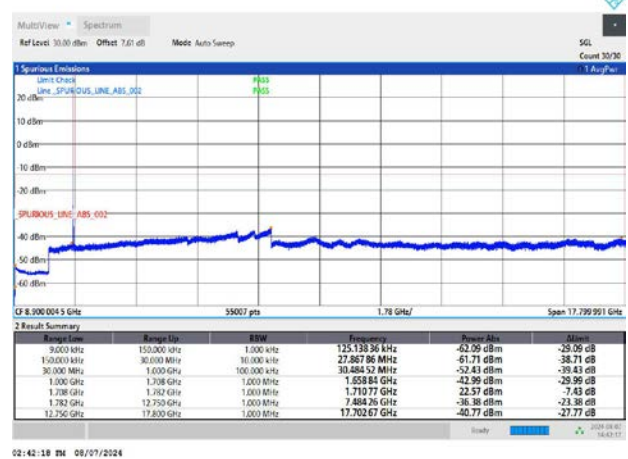


## DC\_7A\_n66A / 15KHz / 25MHz

## LCH / DFT-Pi2BPSK / Edge\_1RB\_Left

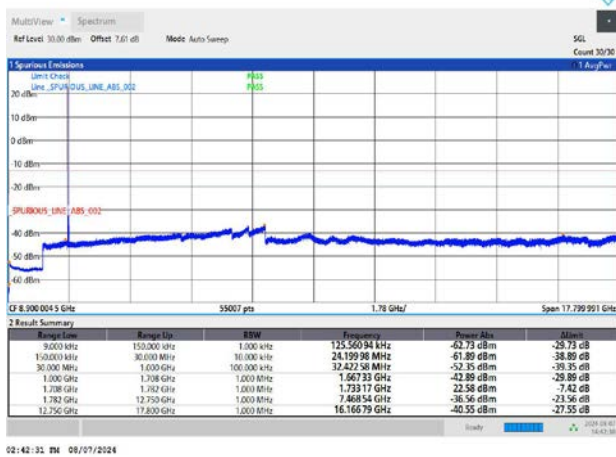


## LCH / DFT-QPSK / Edge\_1RB\_Left





## MCH / DFT-Pi2BPSK / Edge\_1RB\_Left



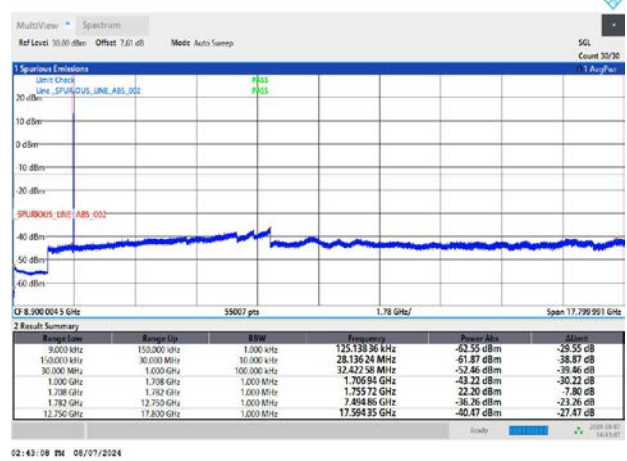
## MCH / DFT-QPSK / Edge\_1RB\_Left



## HCH / DFT-Pi2BPSK / Edge\_1RB\_Left

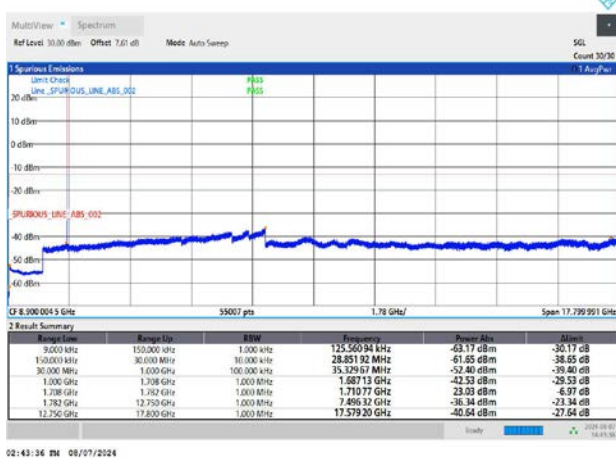


## HCH / DFT-QPSK / Edge\_1RB\_Left



## DC\_7A\_n66A / 15KHz / 30MHz

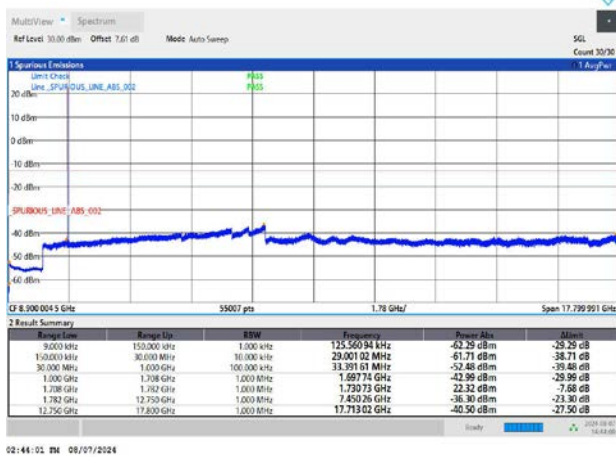
## LCH / DFT-Pi2BPSK / Edge\_1RB\_Left



## LCH / DFT-QPSK / Edge\_1RB\_Left



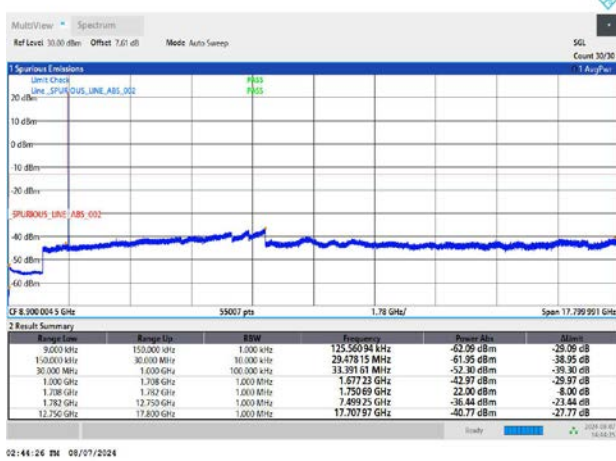
## MCH / DFT-Pi2BPSK / Edge\_1RB\_Left



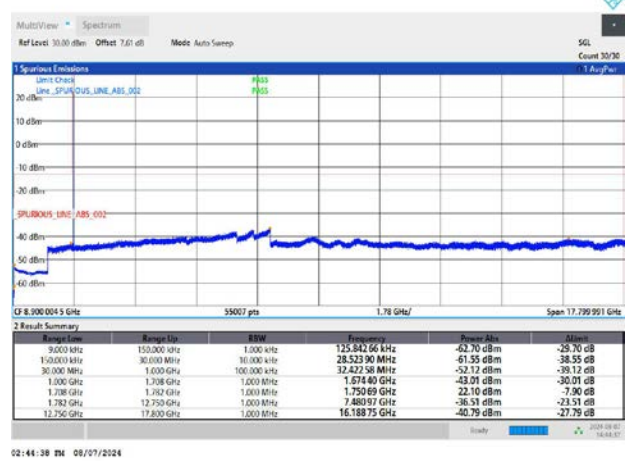
## MCH / DFT-QPSK / Edge\_1RB\_Left



## HCH / DFT-Pi2BPSK / Edge\_1RB\_Left



## HCH / DFT-QPSK / Edge\_1RB\_Left



## DC\_7A\_n66A / 15KHz / 35MHz

## LCH / DFT-Pi2BPSK / Edge\_1RB\_Left

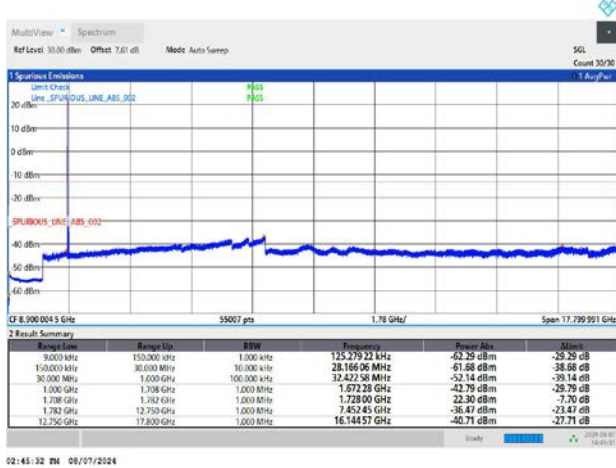


## LCH / DFT-QPSK / Edge\_1RB\_Left

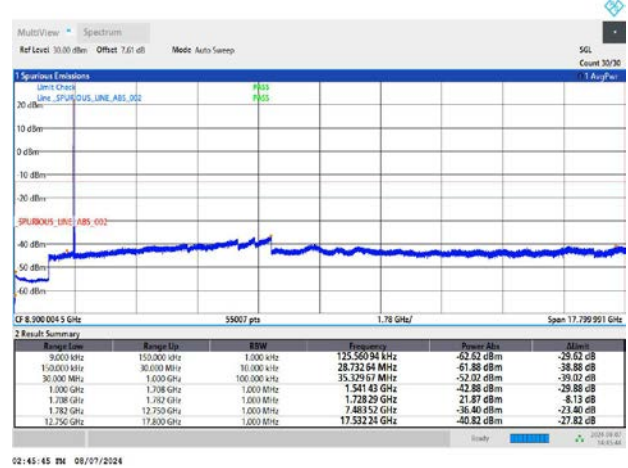




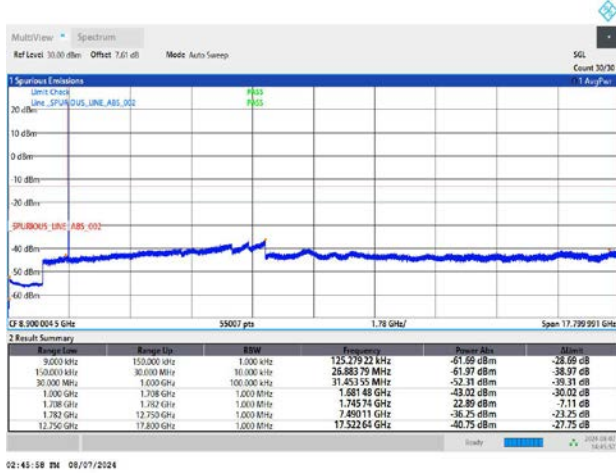
## MCH / DFT-Pi2BPSK / Edge\_1RB\_Left



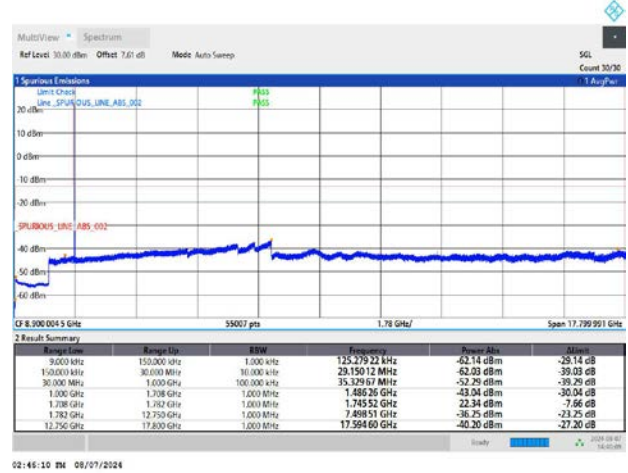
## MCH / DFT-QPSK / Edge\_1RB\_Left



## HCH / DFT-Pi2BPSK / Edge\_1RB\_Left

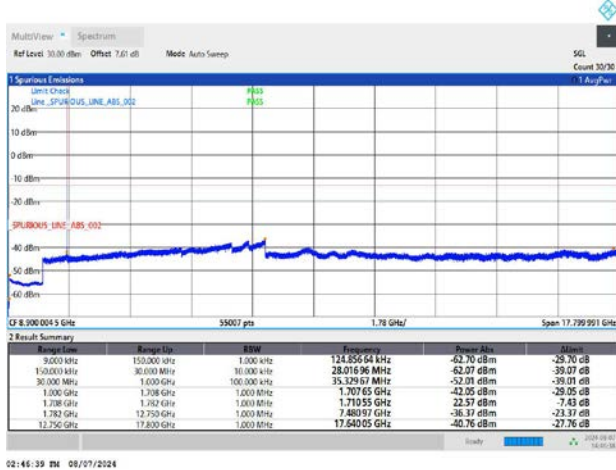


## HCH / DFT-QPSK / Edge\_1RB\_Left

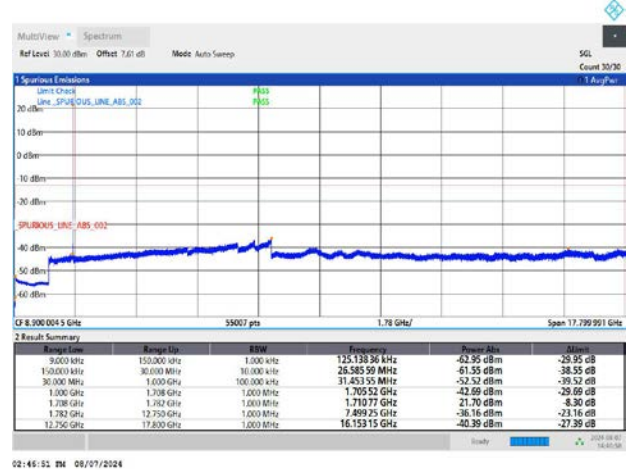


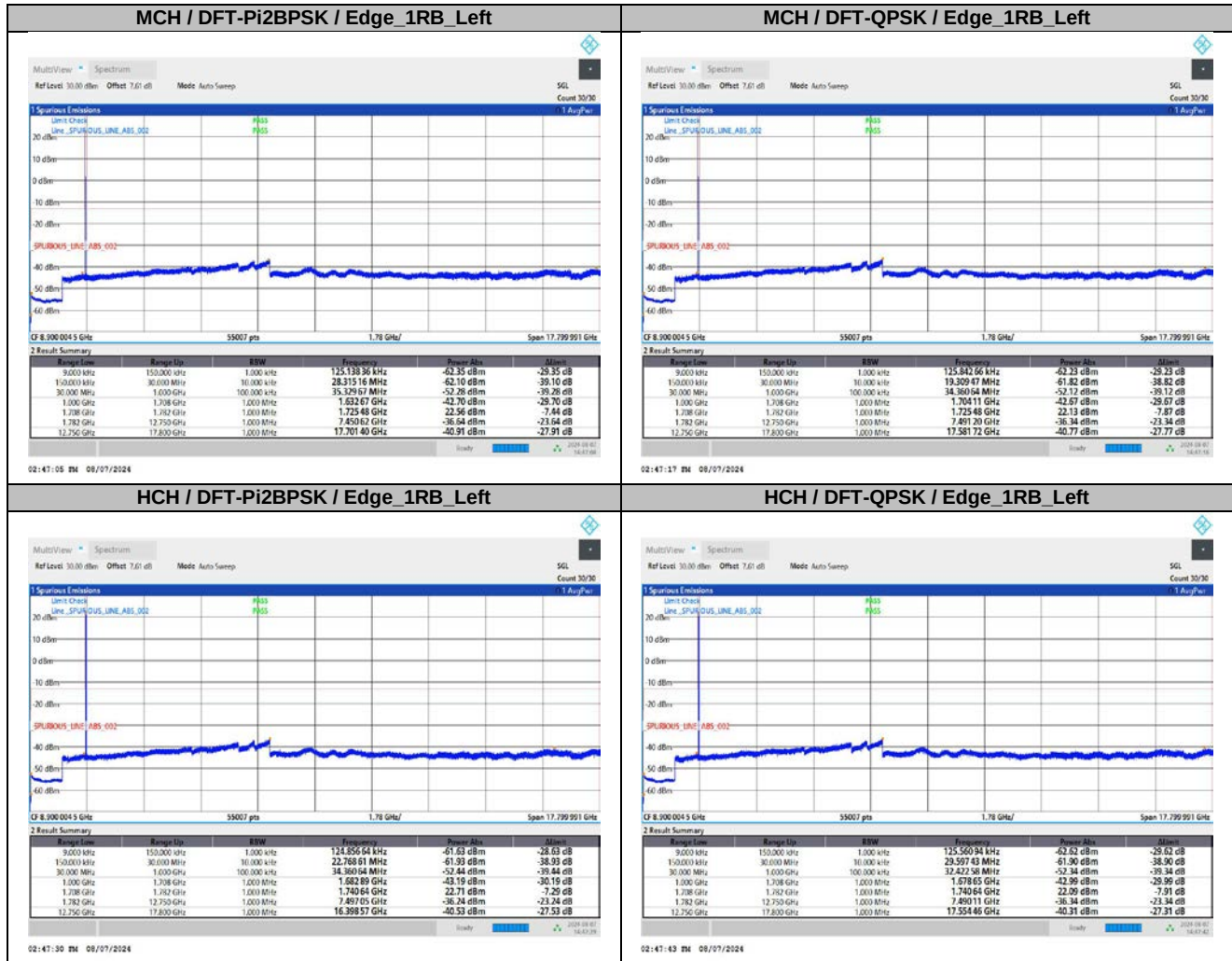
## DC\_7A\_n66A / 15KHz / 40MHz

## LCH / DFT-Pi2BPSK / Edge\_1RB\_Left



## LCH / DFT-QPSK / Edge\_1RB\_Left





## 7. Frequency Stability

### 7.1. Test Results

#### 7.1.1. Frequency Error Vs Voltage

| SCS   | Bandwidth | Channel | RB Config  | Modulation | Temperature | Voltage | Deviation Result |           | Verdict |
|-------|-----------|---------|------------|------------|-------------|---------|------------------|-----------|---------|
|       |           |         |            |            |             |         | (Hz)             | (ppm)     |         |
| 15KHz | 40MHz     | MCH     | Outer_Full | DFT-QPSK   | NT          | LV      | -2.10            | -0.001203 | Pass    |
| 15KHz | 40MHz     | MCH     | Outer_Full | DFT-QPSK   | NT          | NV      | -1.60            | -0.000917 | Pass    |
| 15KHz | 40MHz     | MCH     | Outer_Full | DFT-QPSK   | NT          | HV      | -4.20            | -0.002407 | Pass    |

#### 7.1.2. Frequency Error Vs Temperature

| SCS   | Bandwidth | Channel | RB Config  | Modulation | Temperature | Voltage | Deviation Result |           | Verdict |
|-------|-----------|---------|------------|------------|-------------|---------|------------------|-----------|---------|
|       |           |         |            |            |             |         | (Hz)             | (ppm)     |         |
| 15KHz | 40MHz     | MCH     | Outer_Full | DFT-QPSK   | -30°C       | NV      | -4.30            | -0.002464 | Pass    |
| 15KHz | 40MHz     | MCH     | Outer_Full | DFT-QPSK   | -20°C       | NV      | -3.20            | -0.001834 | Pass    |
| 15KHz | 40MHz     | MCH     | Outer_Full | DFT-QPSK   | -10°C       | NV      | -2.90            | -0.001662 | Pass    |
| 15KHz | 40MHz     | MCH     | Outer_Full | DFT-QPSK   | 0°C         | NV      | -1.30            | -0.000745 | Pass    |
| 15KHz | 40MHz     | MCH     | Outer_Full | DFT-QPSK   | 10°C        | NV      | -3.10            | -0.001777 | Pass    |
| 15KHz | 40MHz     | MCH     | Outer_Full | DFT-QPSK   | 20°C        | NV      | -1.90            | -0.001089 | Pass    |
| 15KHz | 40MHz     | MCH     | Outer_Full | DFT-QPSK   | 30°C        | NV      | -2.90            | -0.001662 | Pass    |
| 15KHz | 40MHz     | MCH     | Outer_Full | DFT-QPSK   | 40°C        | NV      | -2.60            | -0.001490 | Pass    |
| 15KHz | 40MHz     | MCH     | Outer_Full | DFT-QPSK   | 50°C        | NV      | -8.30            | -0.004756 | Pass    |

The End