



Report No.: SEWA2205000015RG01

Rev.: 01

Page: 1 of 53

Appendix B.16

LTE Band 71



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Effective (Isotropic) Radiated Power Output Data

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band71 | 5MHz | QPSK | 133147 | 1RB#0 | 23.6 | 21.69 | 34.77 | PASS |
| Band71 | 5MHz | QPSK | 133147 | 1RB#12 | 23.49 | 21.58 | 34.77 | PASS |
| Band71 | 5MHz | QPSK | 133147 | 1RB#24 | 23.41 | 21.5 | 34.77 | PASS |
| Band71 | 5MHz | QPSK | 133147 | 25RB#0 | 22.59 | 20.68 | 34.77 | PASS |
| Band71 | 5MHz | QPSK | 133297 | 1RB#0 | 23.58 | 21.67 | 34.77 | PASS |
| Band71 | 5MHz | QPSK | 133297 | 1RB#12 | 23.53 | 21.62 | 34.77 | PASS |
| Band71 | 5MHz | QPSK | 133297 | 1RB#24 | 23.47 | 21.56 | 34.77 | PASS |
| Band71 | 5MHz | QPSK | 133297 | 25RB#0 | 22.5 | 20.59 | 34.77 | PASS |
| Band71 | 5MHz | QPSK | 133447 | 1RB#0 | 23.47 | 21.56 | 34.77 | PASS |
| Band71 | 5MHz | QPSK | 133447 | 1RB#12 | 23.47 | 21.56 | 34.77 | PASS |
| Band71 | 5MHz | QPSK | 133447 | 1RB#24 | 23.33 | 21.42 | 34.77 | PASS |
| Band71 | 5MHz | QPSK | 133447 | 25RB#0 | 22.49 | 20.58 | 34.77 | PASS |
| Band71 | 5MHz | 16QAM | 133147 | 1RB#0 | 22.8 | 20.89 | 34.77 | PASS |
| Band71 | 5MHz | 16QAM | 133147 | 1RB#12 | 22.8 | 20.89 | 34.77 | PASS |
| Band71 | 5MHz | 16QAM | 133147 | 1RB#24 | 22.71 | 20.8 | 34.77 | PASS |
| Band71 | 5MHz | 16QAM | 133147 | 25RB#0 | 21.64 | 19.73 | 34.77 | PASS |
| Band71 | 5MHz | 16QAM | 133297 | 1RB#0 | 22.93 | 21.02 | 34.77 | PASS |
| Band71 | 5MHz | 16QAM | 133297 | 1RB#12 | 22.84 | 20.93 | 34.77 | PASS |
| Band71 | 5MHz | 16QAM | 133297 | 1RB#24 | 22.88 | 20.97 | 34.77 | PASS |
| Band71 | 5MHz | 16QAM | 133297 | 25RB#0 | 21.52 | 19.61 | 34.77 | PASS |
| Band71 | 5MHz | 16QAM | 133447 | 1RB#0 | 22.77 | 20.86 | 34.77 | PASS |
| Band71 | 5MHz | 16QAM | 133447 | 1RB#12 | 22.8 | 20.89 | 34.77 | PASS |
| Band71 | 5MHz | 16QAM | 133447 | 1RB#24 | 22.52 | 20.61 | 34.77 | PASS |
| Band71 | 5MHz | 16QAM | 133447 | 25RB#0 | 21.48 | 19.57 | 34.77 | PASS |
| Band71 | 5MHz | 64QAM | 133147 | 1RB#0 | 21.74 | 19.83 | 34.77 | PASS |
| Band71 | 5MHz | 64QAM | 133147 | 1RB#12 | 21.78 | 19.87 | 34.77 | PASS |
| Band71 | 5MHz | 64QAM | 133147 | 1RB#24 | 21.7 | 19.79 | 34.77 | PASS |
| Band71 | 5MHz | 64QAM | 133147 | 25RB#0 | 20.48 | 18.57 | 34.77 | PASS |



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Report No.: SEWA2205000015RG01

Rev.: 01

Page: 3 of 53

| | | | | | | | | |
|--------|-------|-------|--------|--------|-------|-------|-------|------|
| Band71 | 5MHz | 64QAM | 133297 | 1RB#0 | 21.81 | 19.9 | 34.77 | PASS |
| Band71 | 5MHz | 64QAM | 133297 | 1RB#12 | 21.81 | 19.9 | 34.77 | PASS |
| Band71 | 5MHz | 64QAM | 133297 | 1RB#24 | 21.74 | 19.83 | 34.77 | PASS |
| Band71 | 5MHz | 64QAM | 133297 | 25RB#0 | 20.59 | 18.68 | 34.77 | PASS |
| Band71 | 5MHz | 64QAM | 133447 | 1RB#0 | 21.84 | 19.93 | 34.77 | PASS |
| Band71 | 5MHz | 64QAM | 133447 | 1RB#12 | 21.66 | 19.75 | 34.77 | PASS |
| Band71 | 5MHz | 64QAM | 133447 | 1RB#24 | 21.64 | 19.73 | 34.77 | PASS |
| Band71 | 5MHz | 64QAM | 133447 | 25RB#0 | 20.52 | 18.61 | 34.77 | PASS |
| Band71 | 10MHz | QPSK | 133172 | 1RB#0 | 23.54 | 21.63 | 34.77 | PASS |
| Band71 | 10MHz | QPSK | 133172 | 1RB#24 | 23.56 | 21.65 | 34.77 | PASS |
| Band71 | 10MHz | QPSK | 133172 | 1RB#49 | 23.46 | 21.55 | 34.77 | PASS |
| Band71 | 10MHz | QPSK | 133172 | 50RB#0 | 22.66 | 20.75 | 34.77 | PASS |
| Band71 | 10MHz | QPSK | 133297 | 1RB#0 | 23.56 | 21.65 | 34.77 | PASS |
| Band71 | 10MHz | QPSK | 133297 | 1RB#24 | 23.47 | 21.56 | 34.77 | PASS |
| Band71 | 10MHz | QPSK | 133297 | 1RB#49 | 23.43 | 21.52 | 34.77 | PASS |
| Band71 | 10MHz | QPSK | 133297 | 50RB#0 | 22.54 | 20.63 | 34.77 | PASS |
| Band71 | 10MHz | QPSK | 133422 | 1RB#0 | 23.35 | 21.44 | 34.77 | PASS |
| Band71 | 10MHz | QPSK | 133422 | 1RB#24 | 23.5 | 21.59 | 34.77 | PASS |
| Band71 | 10MHz | QPSK | 133422 | 1RB#49 | 23.33 | 21.42 | 34.77 | PASS |
| Band71 | 10MHz | QPSK | 133422 | 50RB#0 | 22.5 | 20.59 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 1RB#0 | 23.03 | 21.12 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 1RB#24 | 22.71 | 20.8 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 1RB#49 | 22.86 | 20.95 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 50RB#0 | 21.57 | 19.66 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 1RB#0 | 22.8 | 20.89 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 1RB#24 | 22.8 | 20.89 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 1RB#49 | 22.71 | 20.8 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 50RB#0 | 21.61 | 19.7 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 1RB#0 | 22.86 | 20.95 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 1RB#24 | 22.76 | 20.85 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 1RB#49 | 22.74 | 20.83 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 50RB#0 | 21.36 | 19.45 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133172 | 1RB#0 | 21.94 | 20.03 | 34.77 | PASS |



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Report No.: SEWA2205000015RG01

Rev.: 01

Page: 4 of 53

| | | | | | | | | |
|--------|-------|-------|--------|--------|-------|-------|-------|------|
| Band71 | 10MHz | 64QAM | 133172 | 1RB#24 | 21.59 | 19.68 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133172 | 1RB#49 | 21.66 | 19.75 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133172 | 50RB#0 | 20.66 | 18.75 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133297 | 1RB#0 | 21.83 | 19.92 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133297 | 1RB#24 | 21.76 | 19.85 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133297 | 1RB#49 | 21.9 | 19.99 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133297 | 50RB#0 | 20.52 | 18.61 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133422 | 1RB#0 | 21.8 | 19.89 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133422 | 1RB#24 | 21.69 | 19.78 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133422 | 1RB#49 | 21.64 | 19.73 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133422 | 50RB#0 | 20.41 | 18.5 | 34.77 | PASS |
| Band71 | 15MHz | QPSK | 133197 | 1RB#0 | 23.53 | 21.62 | 34.77 | PASS |
| Band71 | 15MHz | QPSK | 133197 | 1RB#38 | 23.41 | 21.5 | 34.77 | PASS |
| Band71 | 15MHz | QPSK | 133197 | 1RB#74 | 23.27 | 21.36 | 34.77 | PASS |
| Band71 | 15MHz | QPSK | 133197 | 75RB#0 | 22.62 | 20.71 | 34.77 | PASS |
| Band71 | 15MHz | QPSK | 133297 | 1RB#0 | 23.53 | 21.62 | 34.77 | PASS |
| Band71 | 15MHz | QPSK | 133297 | 1RB#38 | 23.46 | 21.55 | 34.77 | PASS |
| Band71 | 15MHz | QPSK | 133297 | 1RB#74 | 23.48 | 21.57 | 34.77 | PASS |
| Band71 | 15MHz | QPSK | 133297 | 75RB#0 | 22.59 | 20.68 | 34.77 | PASS |
| Band71 | 15MHz | QPSK | 133397 | 1RB#0 | 23.42 | 21.51 | 34.77 | PASS |
| Band71 | 15MHz | QPSK | 133397 | 1RB#38 | 23.43 | 21.52 | 34.77 | PASS |
| Band71 | 15MHz | QPSK | 133397 | 1RB#74 | 23.25 | 21.34 | 34.77 | PASS |
| Band71 | 15MHz | QPSK | 133397 | 75RB#0 | 22.59 | 20.68 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 1RB#0 | 22.99 | 21.08 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 1RB#38 | 22.71 | 20.8 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 1RB#74 | 22.63 | 20.72 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 75RB#0 | 21.65 | 19.74 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 1RB#0 | 22.85 | 20.94 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 1RB#38 | 22.79 | 20.88 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 1RB#74 | 22.65 | 20.74 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 75RB#0 | 21.47 | 19.56 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 1RB#0 | 22.88 | 20.97 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 1RB#38 | 22.76 | 20.85 | 34.77 | PASS |



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Report No.: SEWA2205000015RG01

Rev.: 01

Page: 5 of 53

| | | | | | | | | |
|--------|-------|-------|--------|---------|-------|-------|-------|------|
| Band71 | 15MHz | 16QAM | 133397 | 1RB#74 | 22.63 | 20.72 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 75RB#0 | 21.62 | 19.71 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133197 | 1RB#0 | 21.87 | 19.96 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133197 | 1RB#38 | 21.8 | 19.89 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133197 | 1RB#74 | 21.68 | 19.77 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133197 | 75RB#0 | 20.6 | 18.69 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133297 | 1RB#0 | 21.78 | 19.87 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133297 | 1RB#38 | 21.64 | 19.73 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133297 | 1RB#74 | 21.52 | 19.61 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133297 | 75RB#0 | 20.58 | 18.67 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133397 | 1RB#0 | 21.7 | 19.79 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133397 | 1RB#38 | 21.63 | 19.72 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133397 | 1RB#74 | 21.66 | 19.75 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133397 | 75RB#0 | 20.61 | 18.7 | 34.77 | PASS |
| Band71 | 20MHz | QPSK | 133222 | 1RB#0 | 23.51 | 21.6 | 34.77 | PASS |
| Band71 | 20MHz | QPSK | 133222 | 1RB#49 | 23.42 | 21.51 | 34.77 | PASS |
| Band71 | 20MHz | QPSK | 133222 | 1RB#99 | 23.33 | 21.42 | 34.77 | PASS |
| Band71 | 20MHz | QPSK | 133222 | 100RB#0 | 22.66 | 20.75 | 34.77 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 1RB#0 | 23.52 | 21.61 | 34.77 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 1RB#49 | 23.41 | 21.5 | 34.77 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 1RB#99 | 23.39 | 21.48 | 34.77 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | 22.57 | 20.66 | 34.77 | PASS |
| Band71 | 20MHz | QPSK | 133372 | 1RB#0 | 23.5 | 21.59 | 34.77 | PASS |
| Band71 | 20MHz | QPSK | 133372 | 1RB#49 | 23.51 | 21.6 | 34.77 | PASS |
| Band71 | 20MHz | QPSK | 133372 | 1RB#99 | 23.35 | 21.44 | 34.77 | PASS |
| Band71 | 20MHz | QPSK | 133372 | 100RB#0 | 22.46 | 20.55 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 1RB#0 | 22.87 | 20.96 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 1RB#49 | 22.83 | 20.92 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 1RB#99 | 22.75 | 20.84 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 100RB#0 | 21.55 | 19.64 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 1RB#0 | 22.83 | 20.92 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 1RB#49 | 22.72 | 20.81 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 1RB#99 | 22.69 | 20.78 | 34.77 | PASS |



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Report No.: SEWA2205000015RG01

Rev.: 01

Page: 6 of 53

| | | | | | | | | |
|--------|-------|-------|--------|---------|-------|-------|-------|------|
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | 21.54 | 19.63 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 1RB#0 | 22.87 | 20.96 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 1RB#49 | 22.67 | 20.76 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 1RB#99 | 22.61 | 20.7 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | 21.44 | 19.53 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133222 | 1RB#0 | 21.81 | 19.9 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133222 | 1RB#49 | 21.63 | 19.72 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133222 | 1RB#99 | 21.56 | 19.65 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133222 | 100RB#0 | 20.67 | 18.76 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133322 | 1RB#0 | 21.69 | 19.78 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133322 | 1RB#49 | 21.64 | 19.73 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133322 | 1RB#99 | 21.38 | 19.47 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133322 | 100RB#0 | 20.61 | 18.7 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133372 | 1RB#0 | 21.7 | 19.79 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133372 | 1RB#49 | 21.39 | 19.48 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133372 | 1RB#99 | 21.56 | 19.65 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133372 | 100RB#0 | 20.49 | 18.58 | 34.77 | PASS |



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Peak-to-Average Ratio(CCDF)

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band71 | 20MHz | QPSK | 133222 | 100RB#0 | 5.28 | 13 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | 5.12 | 13 | PASS |
| Band71 | 20MHz | QPSK | 133372 | 100RB#0 | 5.24 | 13 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 100RB#0 | 6.08 | 13 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | 5.98 | 13 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | 6.00 | 13 | PASS |
| Band71 | 20MHz | 64QAM | 133222 | 100RB#0 | 6.56 | 13 | PASS |
| Band71 | 20MHz | 64QAM | 133322 | 100RB#0 | 6.54 | 13 | PASS |
| Band71 | 20MHz | 64QAM | 133372 | 100RB#0 | 6.58 | 13 | PASS |



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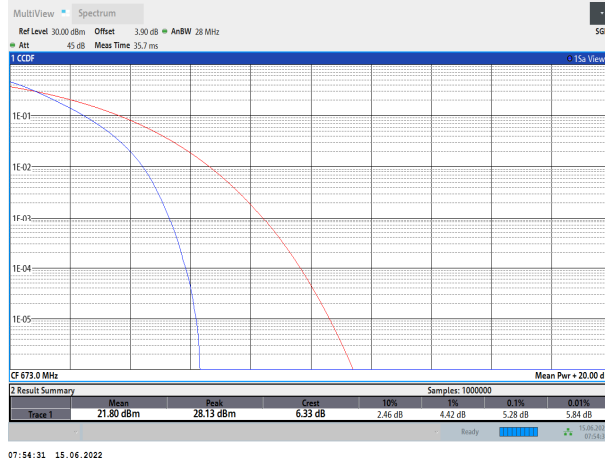
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Rev.: 01

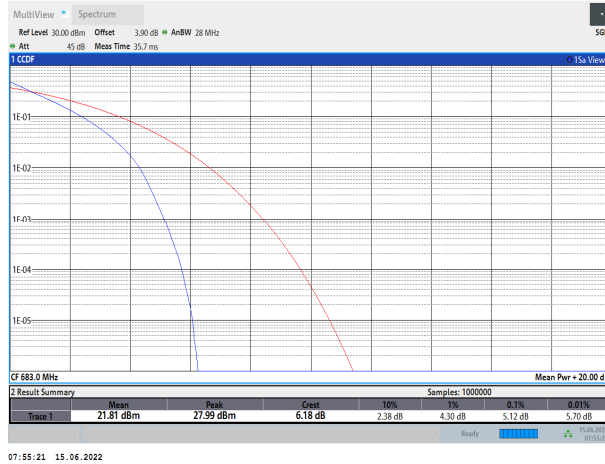
Page: 8 of 53

Test Graphs

Band71-20MHz-QPSK-133222-100RB#0



Band71-20MHz-QPSK-133322-100RB#0



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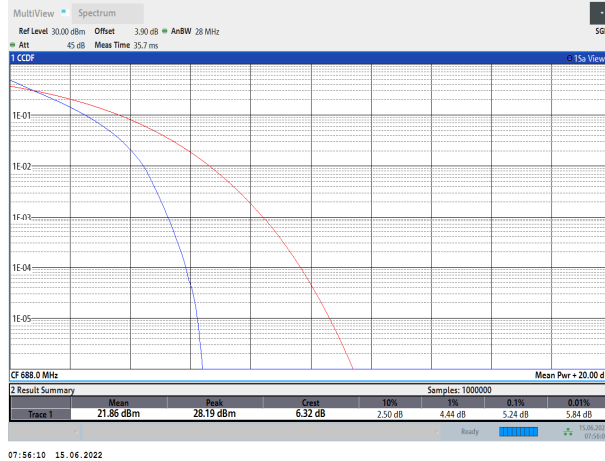


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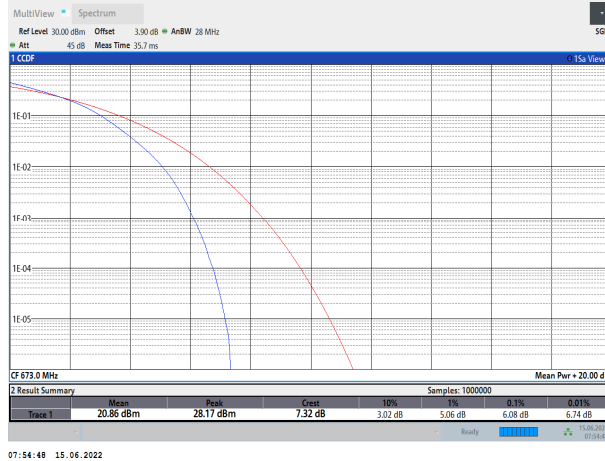
Rev.: 01

Page: 9 of 53

Band71-20MHz-QPSK-133372-100RB#0



Band71-20MHz-16QAM-133222-100RB#0



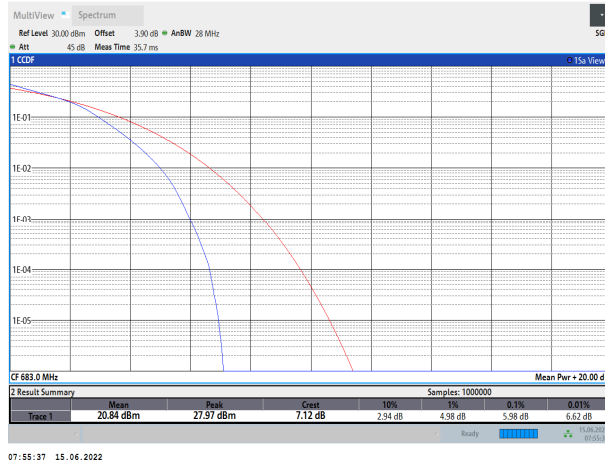


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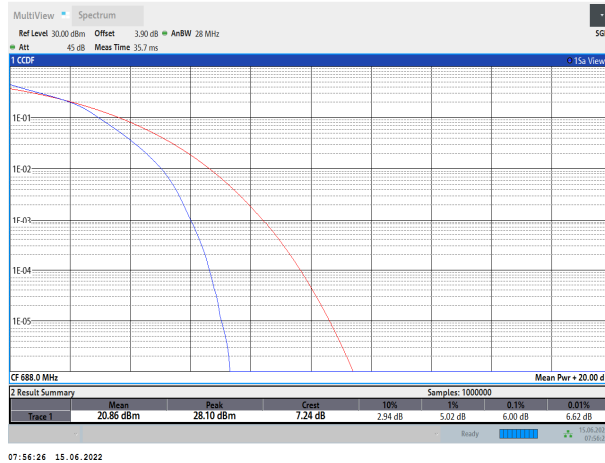
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Page: 10 of 53

Band71-20MHz-16QAM-133322-100RB#0



Band71-20MHz-16QAM-133372-100RB#0



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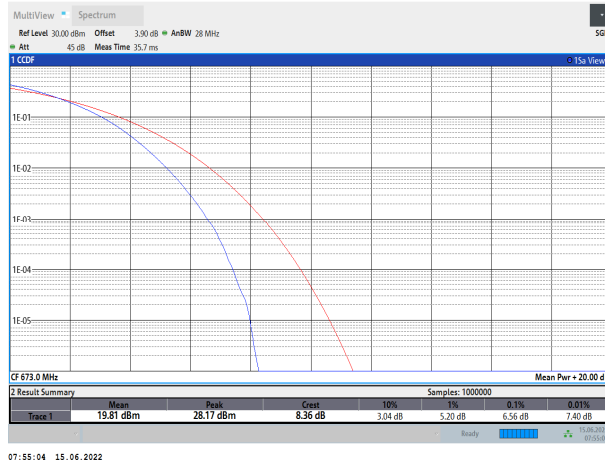


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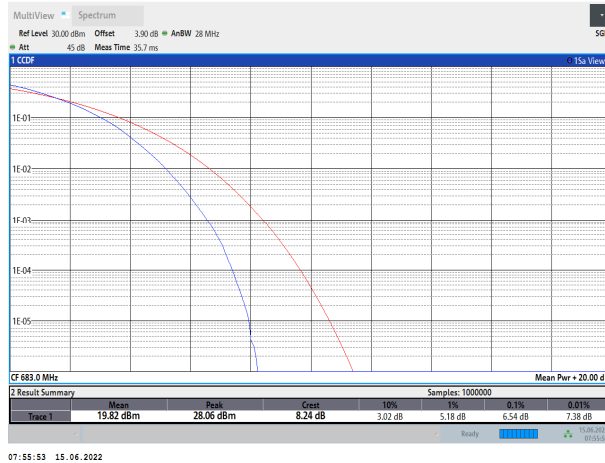
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Page: 11 of 53

Band71-20MHz-64QAM-133222-100RB#0



Band71-20MHz-64QAM-133322-100RB#0



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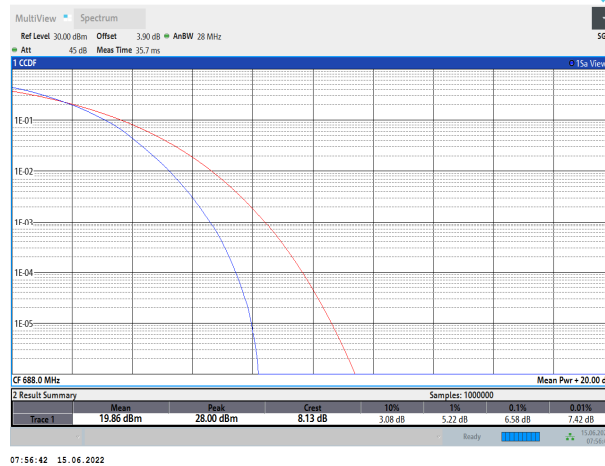


Report No.: SEWA2205000015RG01

Rev.: 01

Page: 12 of 53

Band71-20MHz-64QAM-133372-100RB#0





Report No.: SEWA2205000015RG01

Rev.: 01

Page: 13 of 53

Modulation Characteristics

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|--------|-----------|------------|---------|------------------|--------|---------|
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | PASS | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | PASS | PASS |
| Band71 | 20MHz | 64QAM | 133322 | 100RB#0 | PASS | PASS |



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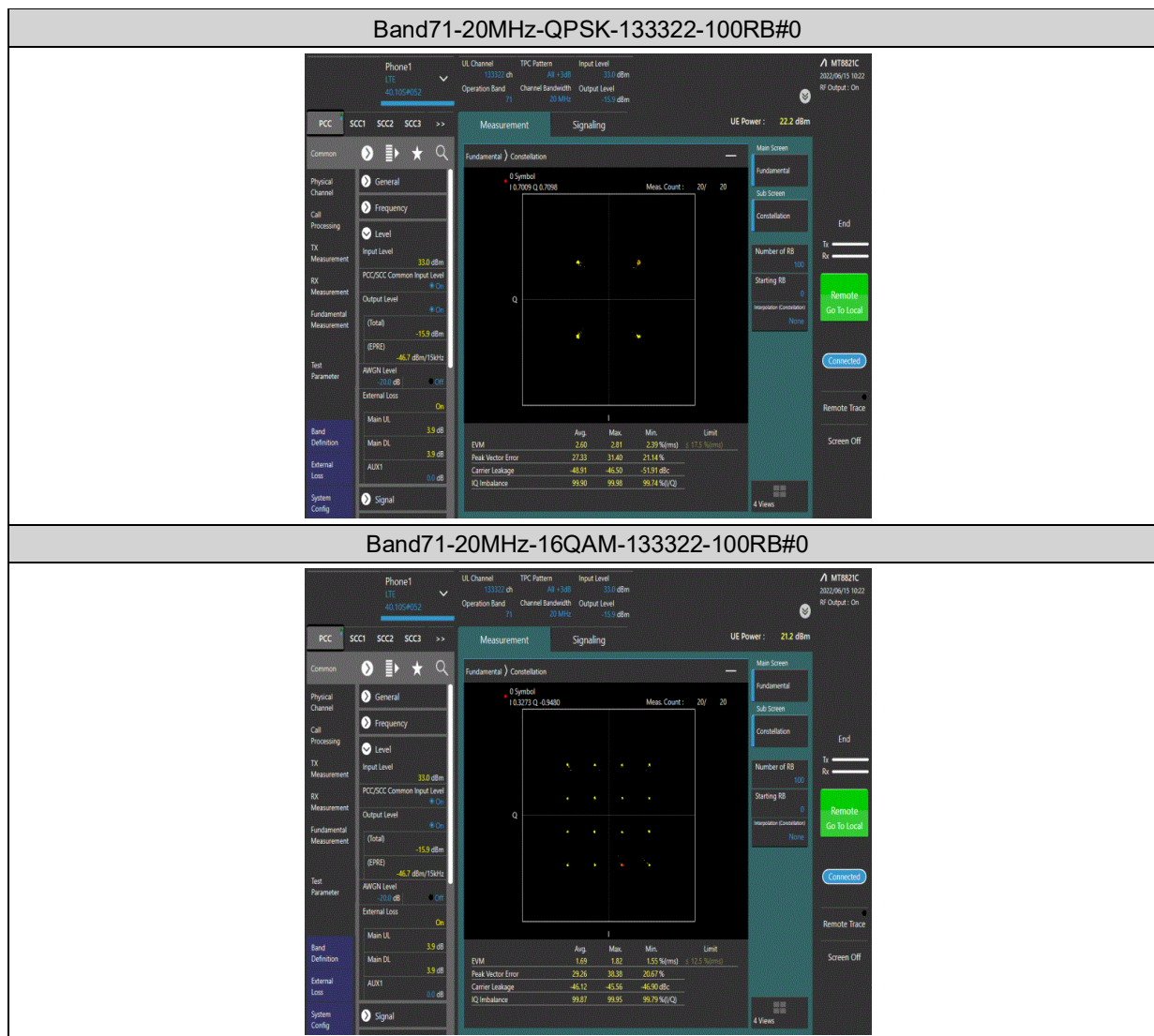


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Rev.: 01

Page: 14 of 53

Test Graphs



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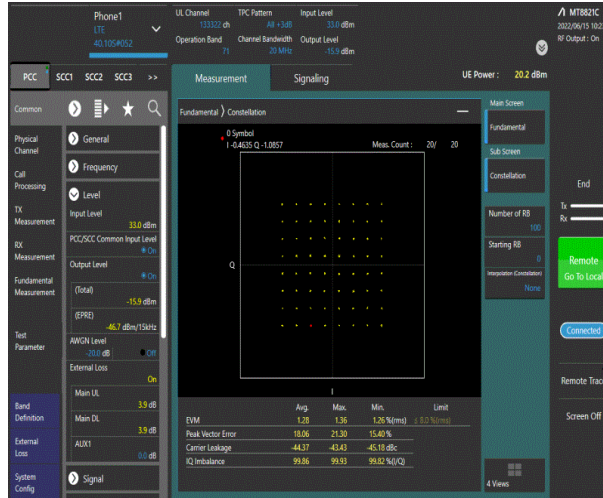


Report No.: SEWA2205000015RG01

Rev.: 01

Page: 15 of 53

Band71-20MHz-64QAM-133322-100RB#0



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Rev.: 01

Page: 16 of 53

26dB Bandwidth and Occupied Bandwidth

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band71 | 5MHz | QPSK | 133147 | 25RB#0 | 4.468 | 4.87 | PASS |
| Band71 | 5MHz | QPSK | 133297 | 25RB#0 | 4.469 | 4.86 | PASS |
| Band71 | 5MHz | QPSK | 133447 | 25RB#0 | 4.471 | 4.90 | PASS |
| Band71 | 5MHz | 16QAM | 133147 | 25RB#0 | 4.470 | 4.92 | PASS |
| Band71 | 5MHz | 16QAM | 133297 | 25RB#0 | 4.463 | 4.91 | PASS |
| Band71 | 5MHz | 16QAM | 133447 | 25RB#0 | 4.463 | 4.90 | PASS |
| Band71 | 5MHz | 64QAM | 133147 | 25RB#0 | 4.478 | 4.89 | PASS |
| Band71 | 5MHz | 64QAM | 133297 | 25RB#0 | 4.478 | 4.89 | PASS |
| Band71 | 5MHz | 64QAM | 133447 | 25RB#0 | 4.483 | 4.87 | PASS |
| Band71 | 10MHz | QPSK | 133172 | 50RB#0 | 8.924 | 9.76 | PASS |
| Band71 | 10MHz | QPSK | 133297 | 50RB#0 | 8.915 | 9.68 | PASS |
| Band71 | 10MHz | QPSK | 133422 | 50RB#0 | 8.922 | 9.68 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 50RB#0 | 8.926 | 9.60 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 50RB#0 | 8.901 | 9.58 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 50RB#0 | 8.917 | 9.60 | PASS |
| Band71 | 10MHz | 64QAM | 133172 | 50RB#0 | 8.918 | 9.66 | PASS |
| Band71 | 10MHz | 64QAM | 133297 | 50RB#0 | 8.922 | 9.64 | PASS |
| Band71 | 10MHz | 64QAM | 133422 | 50RB#0 | 8.927 | 9.62 | PASS |
| Band71 | 15MHz | QPSK | 133197 | 75RB#0 | 13.459 | 14.79 | PASS |
| Band71 | 15MHz | QPSK | 133297 | 75RB#0 | 13.455 | 14.79 | PASS |
| Band71 | 15MHz | QPSK | 133397 | 75RB#0 | 13.465 | 14.67 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 75RB#0 | 13.433 | 14.91 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 75RB#0 | 13.449 | 14.73 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 75RB#0 | 13.449 | 14.79 | PASS |
| Band71 | 15MHz | 64QAM | 133197 | 75RB#0 | 13.426 | 14.73 | PASS |
| Band71 | 15MHz | 64QAM | 133297 | 75RB#0 | 13.421 | 14.76 | PASS |
| Band71 | 15MHz | 64QAM | 133397 | 75RB#0 | 13.430 | 14.76 | PASS |
| Band71 | 20MHz | QPSK | 133222 | 100RB#0 | 17.919 | 19.48 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | 17.906 | 19.52 | PASS |
| Band71 | 20MHz | QPSK | 133372 | 100RB#0 | 17.886 | 19.36 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 100RB#0 | 17.868 | 19.40 | PASS |



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Report No.: SEWA2205000015RG01

Rev.: 01

Page: 17 of 53

| | | | | | | | |
|--------|-------|-------|--------|---------|--------|-------|------|
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | 17.867 | 19.36 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | 17.855 | 19.36 | PASS |
| Band71 | 20MHz | 64QAM | 133222 | 100RB#0 | 17.851 | 20.00 | PASS |
| Band71 | 20MHz | 64QAM | 133322 | 100RB#0 | 17.859 | 19.36 | PASS |
| Band71 | 20MHz | 64QAM | 133372 | 100RB#0 | 17.856 | 19.44 | PASS |



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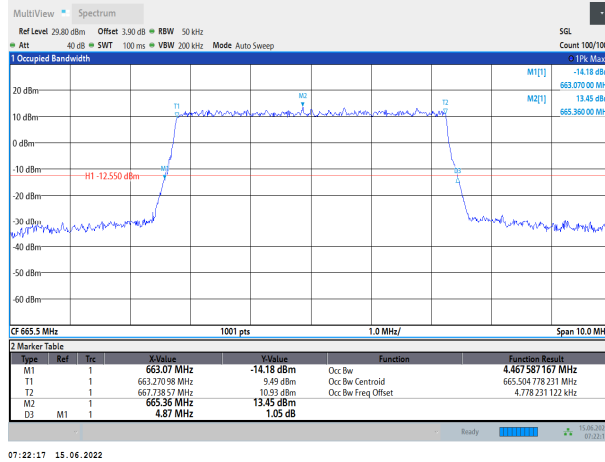
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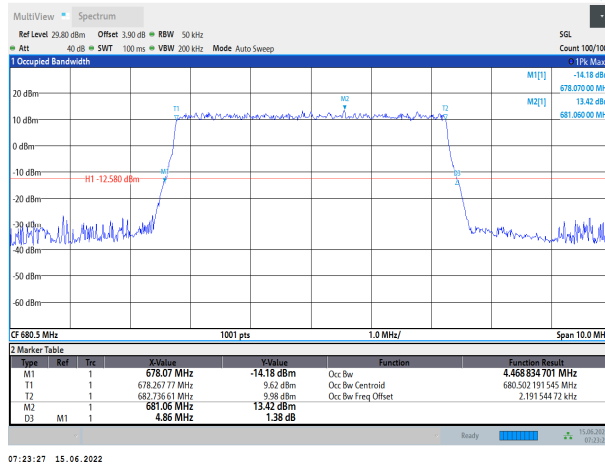
Page: 18 of 53

Test Graphs

Band71-5MHz-QPSK-133147-25RB#0



Band71-5MHz-QPSK-133297-25RB#0



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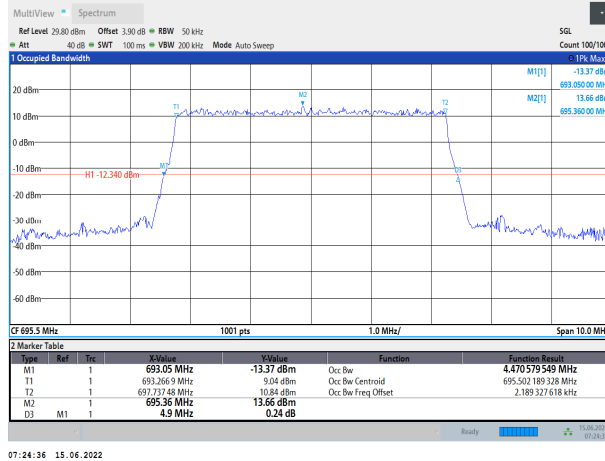


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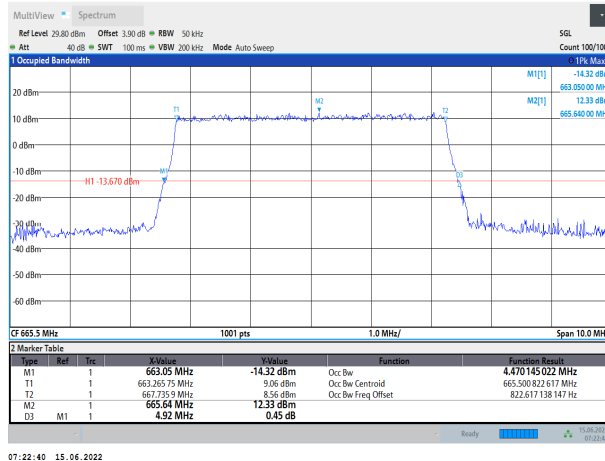
Rev.: 01

Page: 19 of 53

Band71-5MHz-QPSK-133447-25RB#0



Band71-5MHz-16QAM-133147-25RB#0



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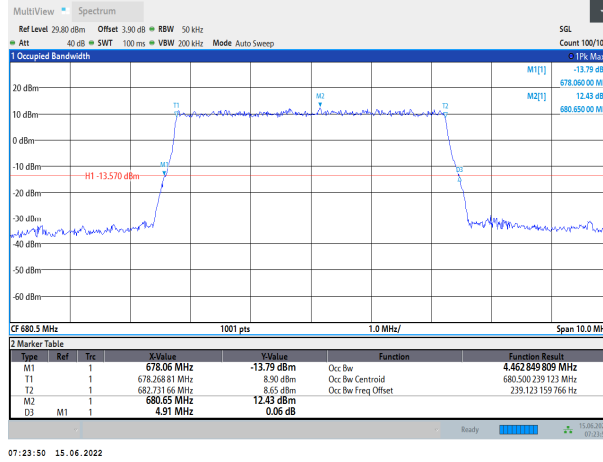


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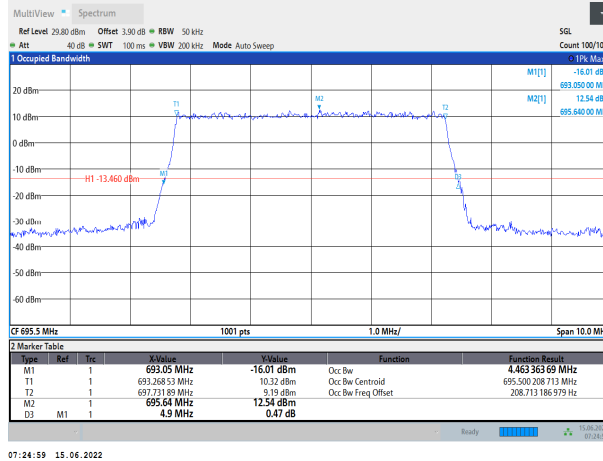
Rev.: 01

Page: 20 of 53

Band71-5MHz-16QAM-133297-25RB#0



Band71-5MHz-16QAM-133447-25RB#0



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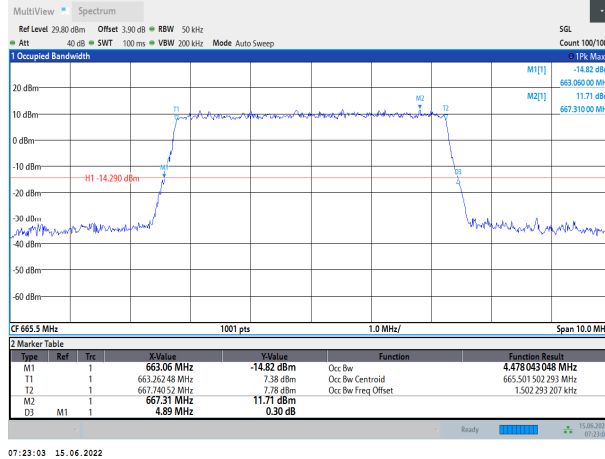


Report No.: SEWA2205000015RG01

Rev.: 01

Page: 21 of 53

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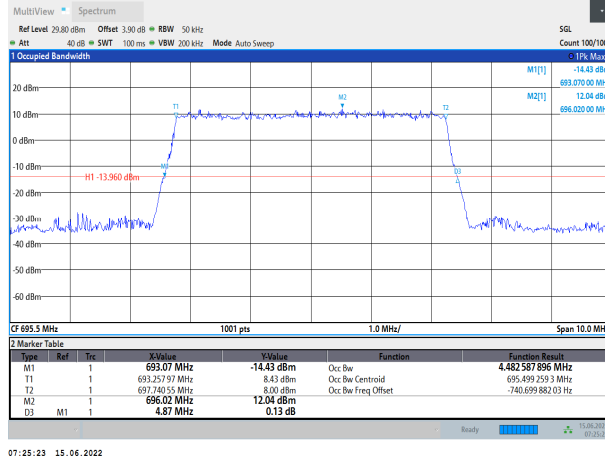


Report No.: SEWA2205000015RG01

Rev.: 01

Page: 22 of 53

Band71-5MHz-64QAM-133447-25RB#0



Band71-10MHz-QPSK-133172-50RB#0



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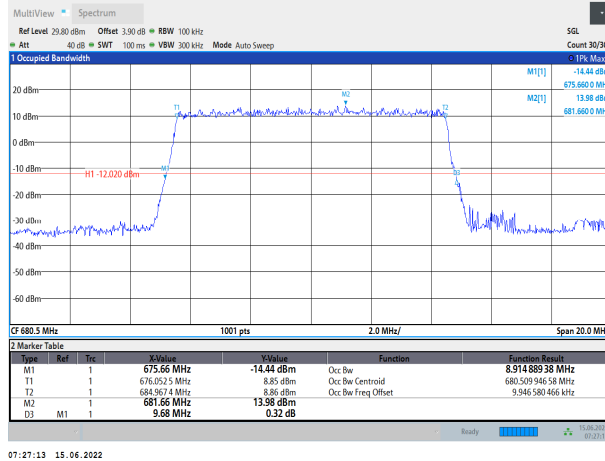


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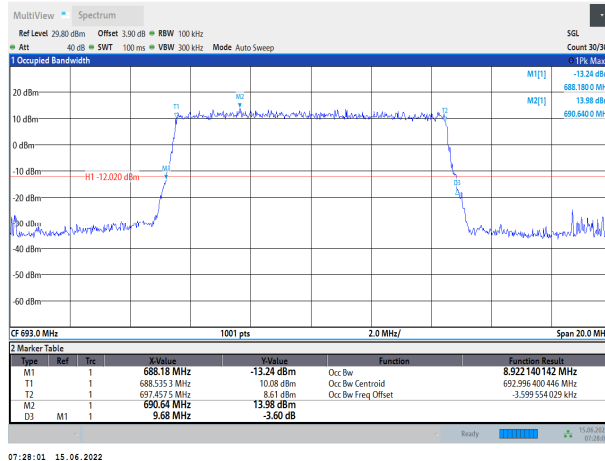
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Page: 23 of 53

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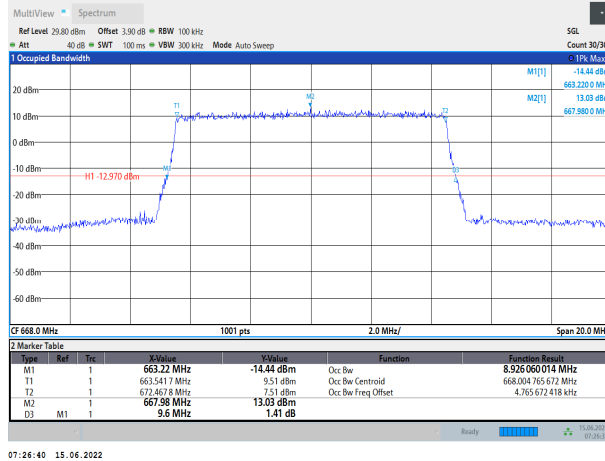


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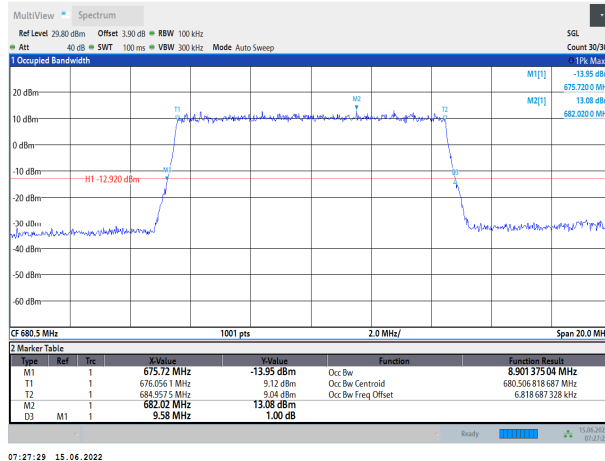
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Page: 24 of 53

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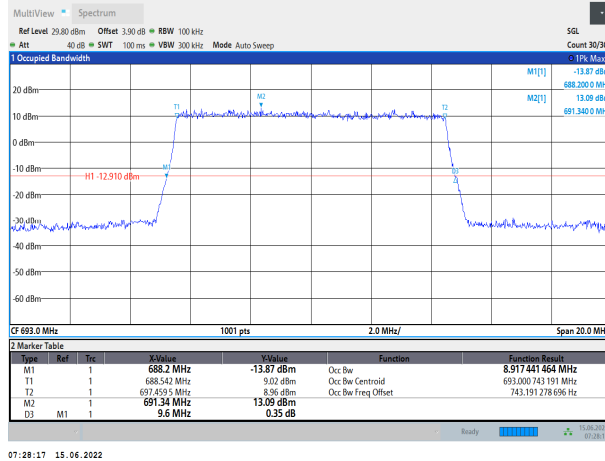


Report No.: SEWA2205000015RG01

Rev.: 01

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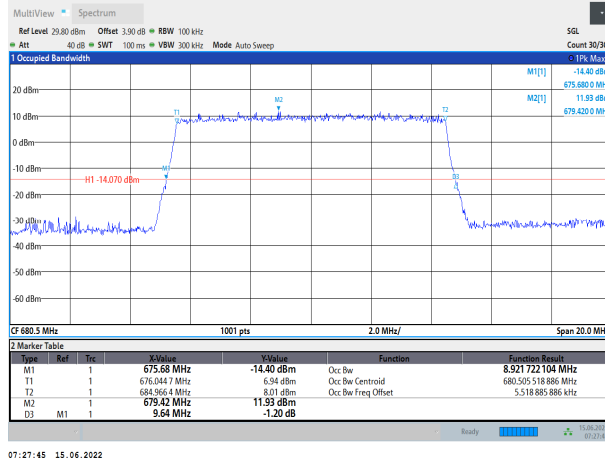


Report No.: SEWA2205000015RG01

Rev.: 01

Page: 26 of 53

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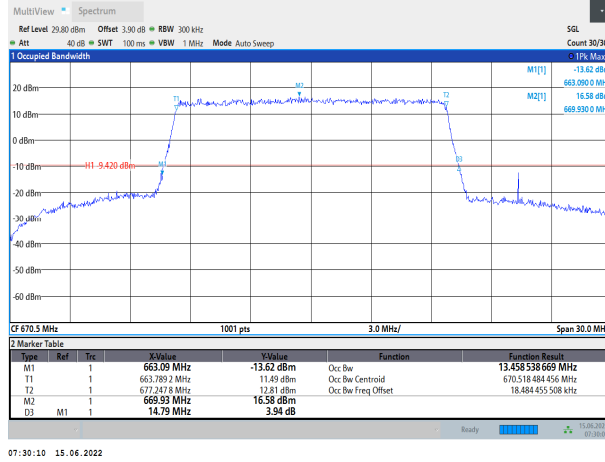


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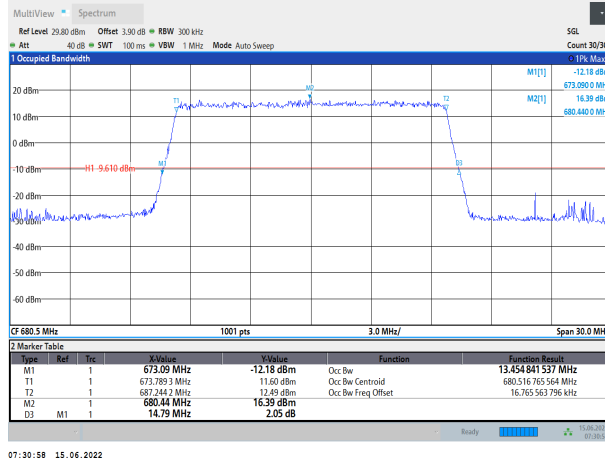
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Page: 27 of 53

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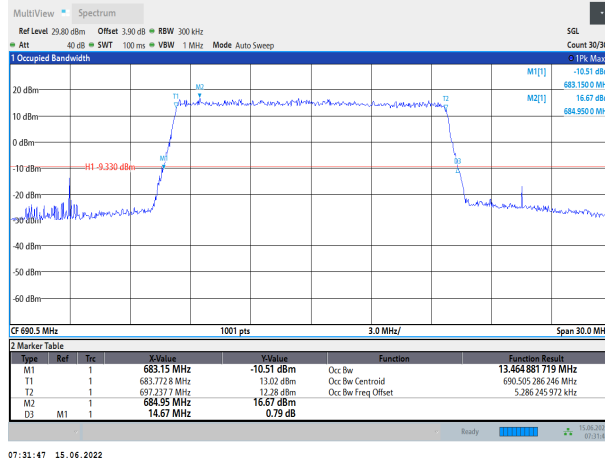


Report No.: SEWA2205000015RG01

Rev.: 01

Page: 28 of 53

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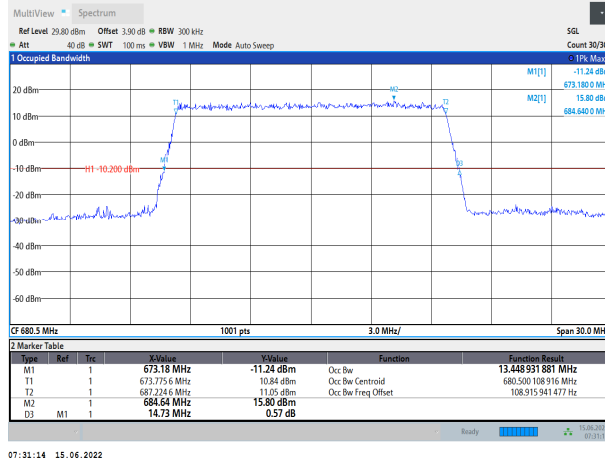


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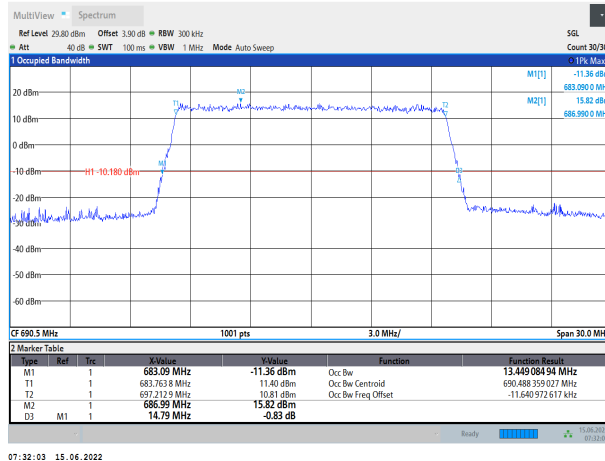
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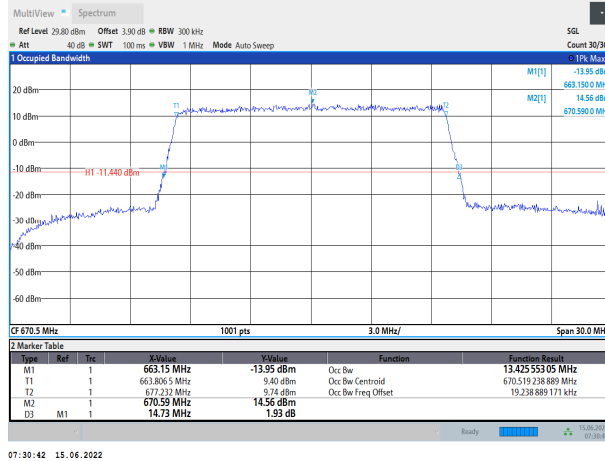


Report No.: SEWA2205000015RG01

Rev.: 01

Page: 30 of 53

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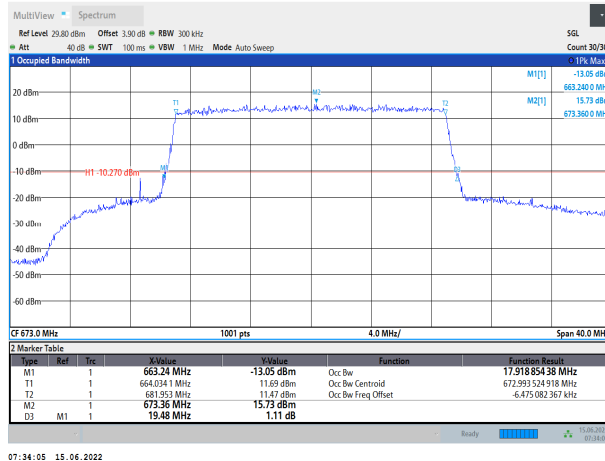
Rev.: 01

Page: 31 of 53

Band71-15MHz-64QAM-133397-75RB#0



Band71-20MHz-QPSK-133222-100RB#0



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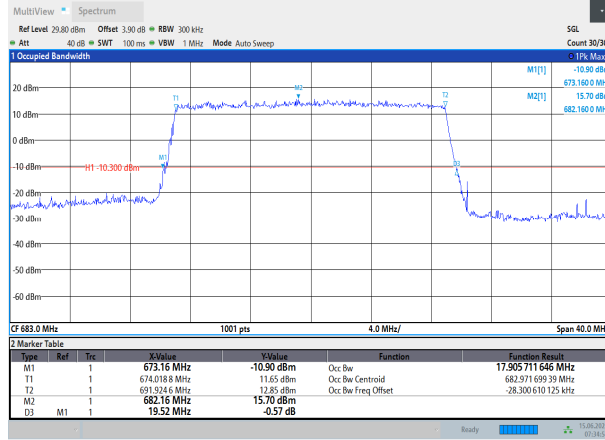


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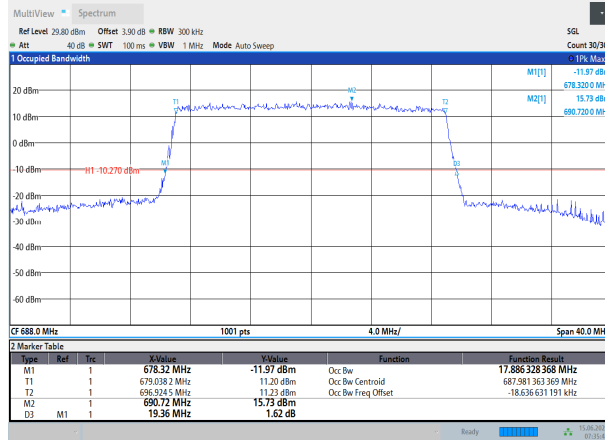
Page: 32 of 53

Band71-20MHz-QPSK-133322-100RB#0



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Band71-20MHz-QPSK-133372-100RB#0



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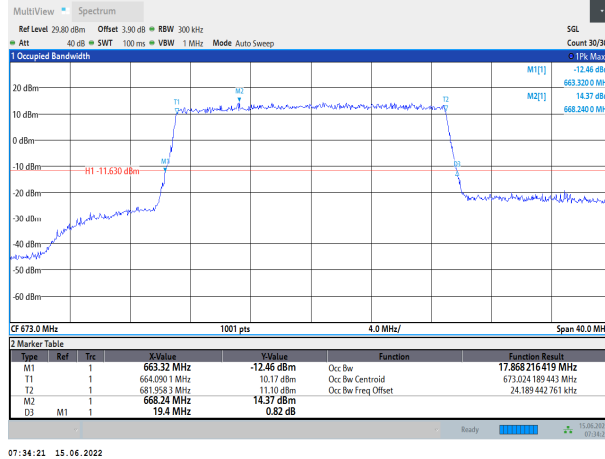


Report No.: SEWA2205000015RG01

Rev.: 01

Page: 33 of 53

Band71-20MHz-16QAM-133222-100RB#0



Band71-20MHz-16QAM-133322-100RB#0



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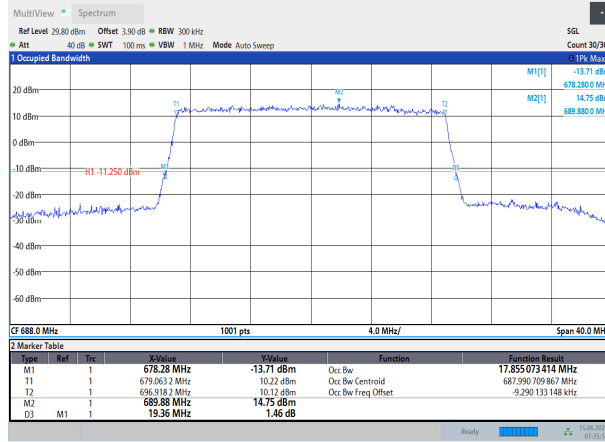


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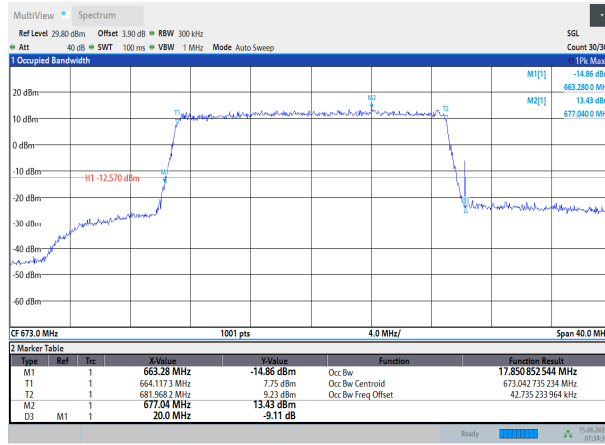
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Page: 34 of 53

Band71-20MHz-16QAM-133372-100RB#0



Band71-20MHz-64QAM-133222-100RB#0



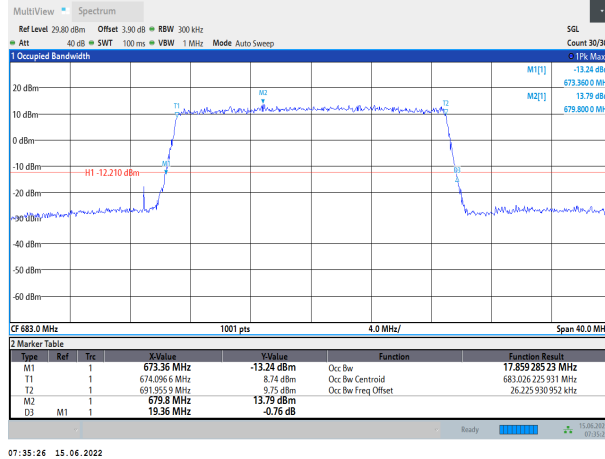


Report No.: SEWA2205000015RG01

Rev.: 01

Page: 35 of 53

Band71-20MHz-64QAM-133322-100RB#0



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Band71-20MHz-64QAM-133372-100RB#0



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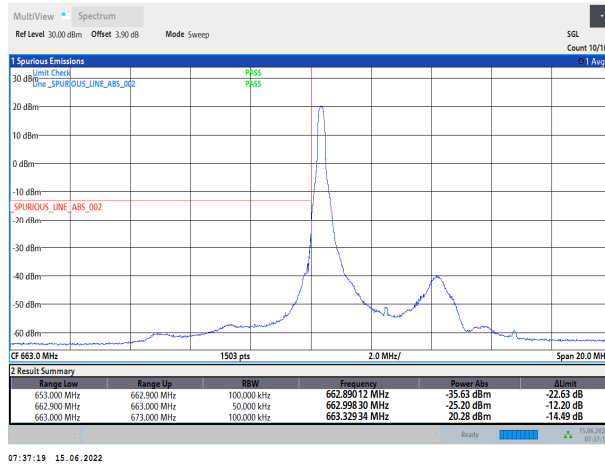
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Page: 36 of 53

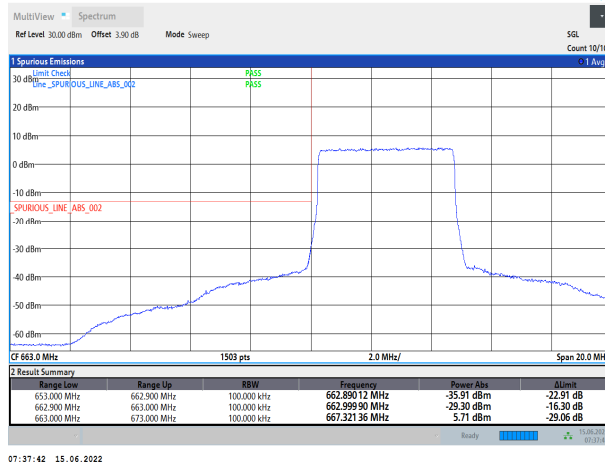
Band Edge

Test Graphs

Band71-5MHz-QPSK-133147-1RB#0



Band71-5MHz-QPSK-133147-25RB#0



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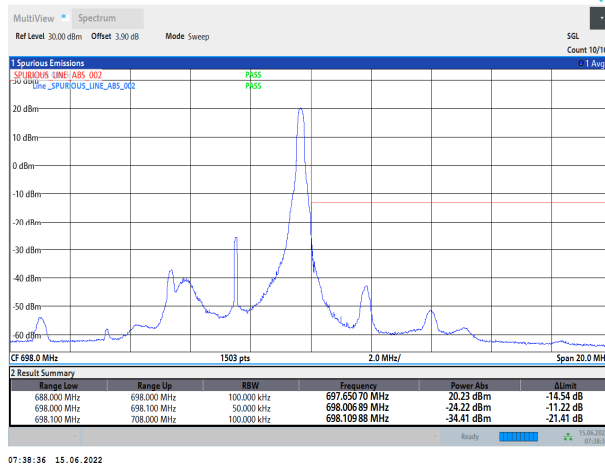


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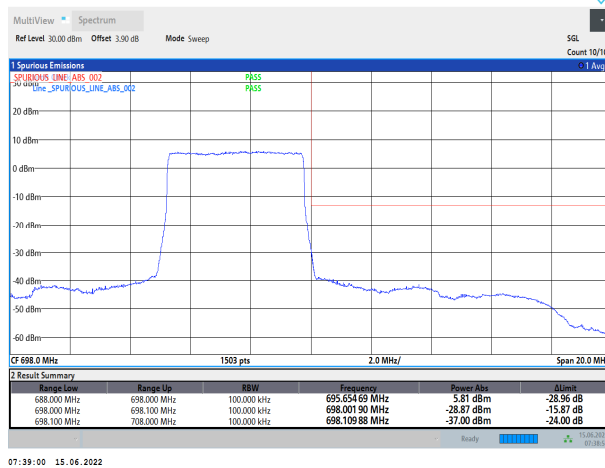
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Band71-5MHz-QPSK-133447-1RB#24



Band71-5MHz-QPSK-133447-25RB#0



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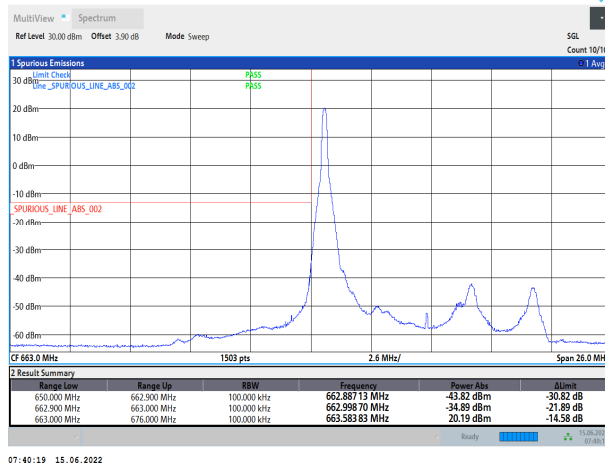


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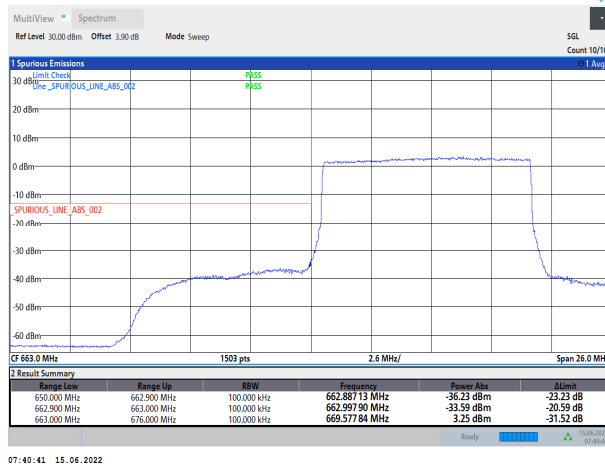
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Band71-10MHz-QPSK-133172-1RB#0



Band71-10MHz-QPSK-133172-50RB#0



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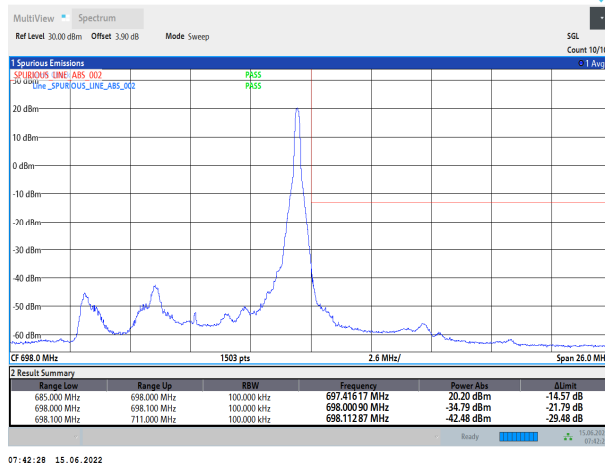


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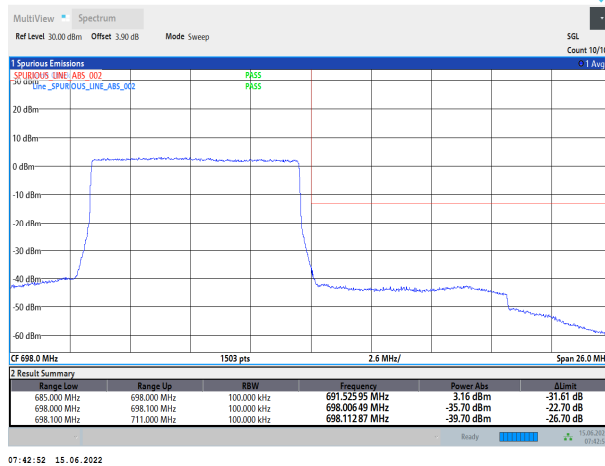
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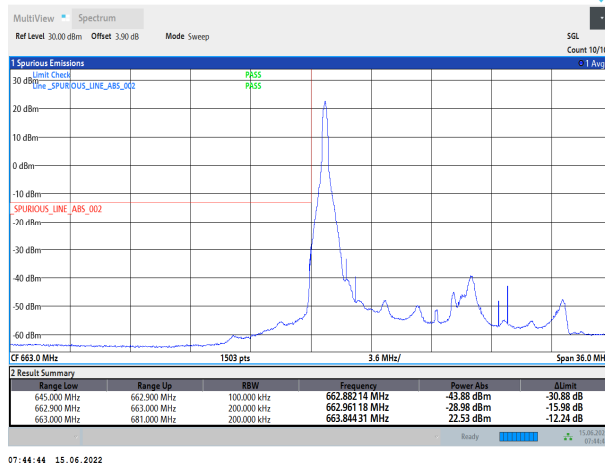


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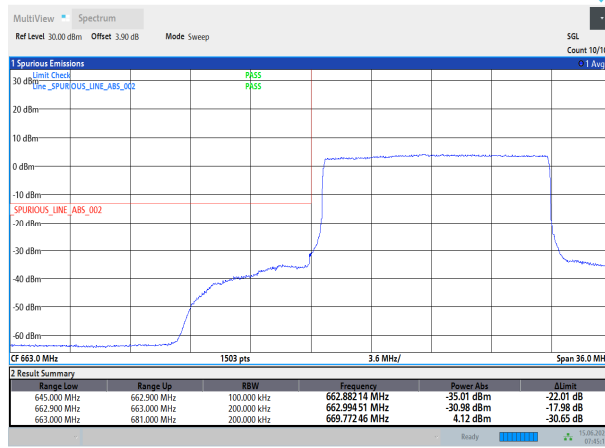
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Band71-15MHz-QPSK-133197-1RB#0



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Band71-15MHz-QPSK-133197-75RB#0



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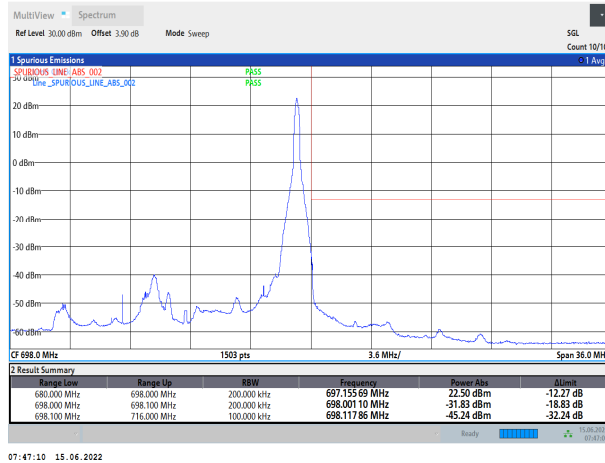


Report No.: SEWA2205000015RG01

Rev.: 01

Page: 41 of 53

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Band71-15MHz-QPSK-133397-75RB#0



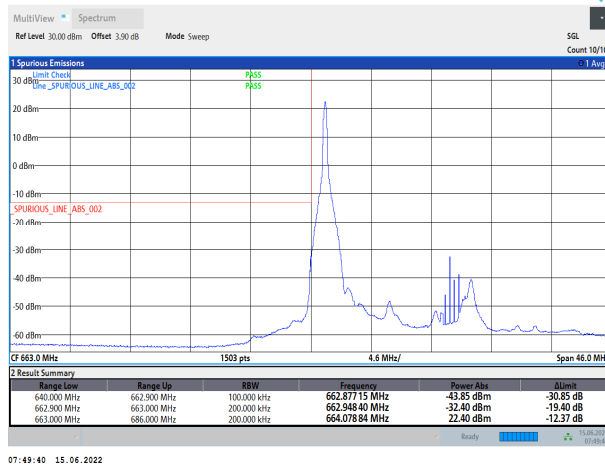


Report No.: SEWA2205000015RG01

Rev.: 01

Page: 42 of 53

Band71-20MHz-QPSK-133222-1RB#0



Band71-20MHz-QPSK-133222-100RB#0



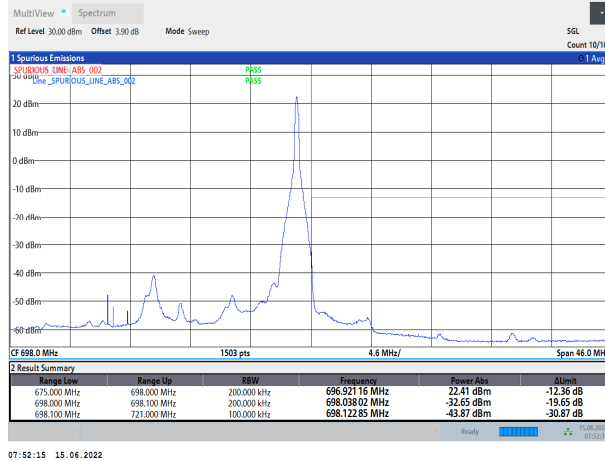


Report No.: SEWA2205000015RG01

Rev.: 01

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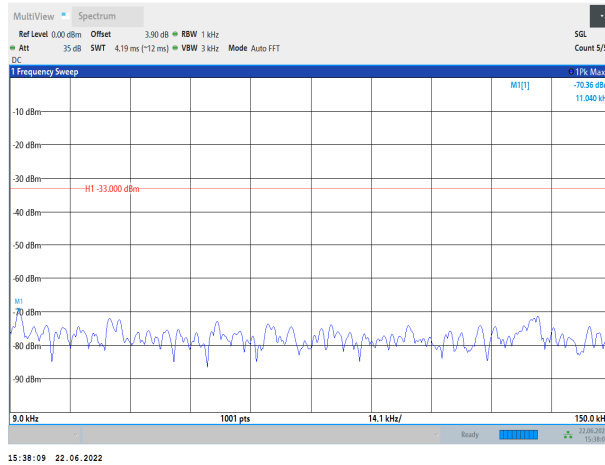
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Page: 44 of 53

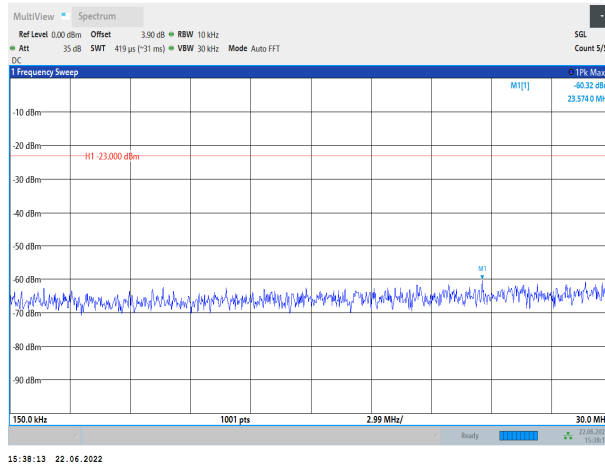
Conducted Spurious Emission

Test Graphs

Band71-20MHz-QPSK-133222-1RB#0-Range1:0.009~0.15MHz



Band71-20MHz-QPSK-133222-1RB#0-Range2:0.15~30MHz



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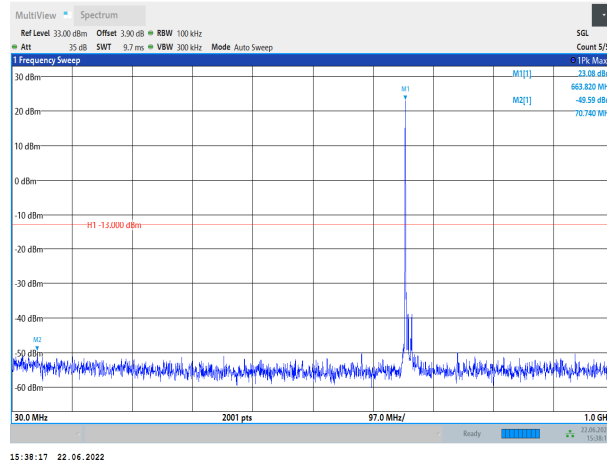


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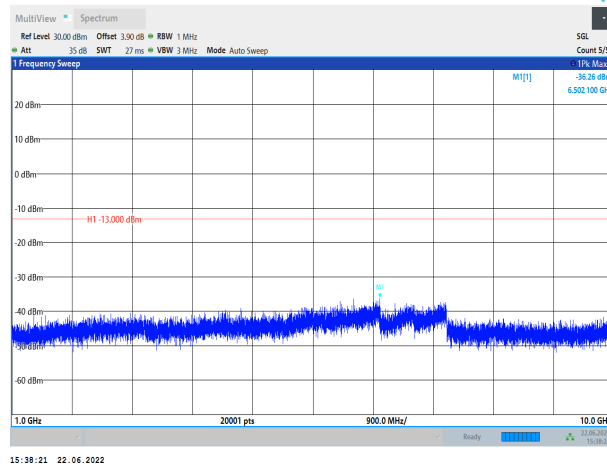
Rev.: 01

Page: 45 of 53

Band71-20MHz-QPSK-133222-1RB#0-Range3:30~1000MHz



Band71-20MHz-QPSK-133222-1RB#0-Range4:1000~10000MHz



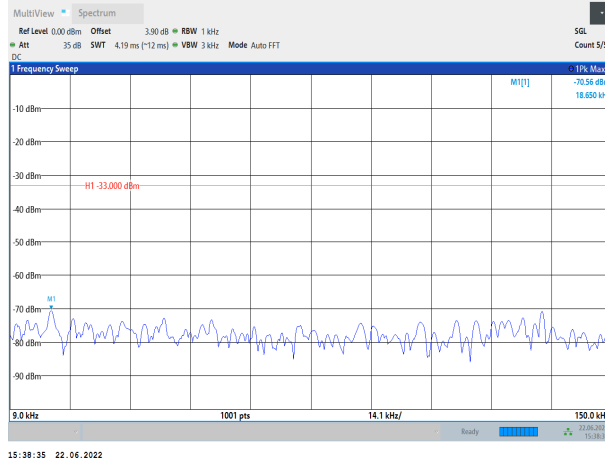


Report No.: SEWA2205000015RG01

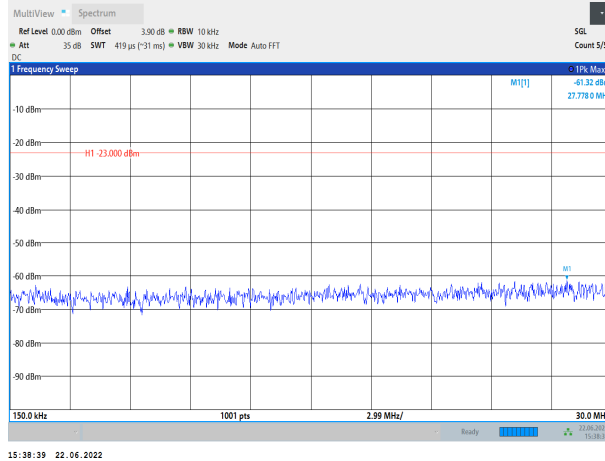
Rev.: 01

Page: 46 of 53

Band71-20MHz-QPSK-133322-1RB#0-Range1:0.009~0.15MHz



Band71-20MHz-QPSK-133322-1RB#0-Range2:0.15~30MHz



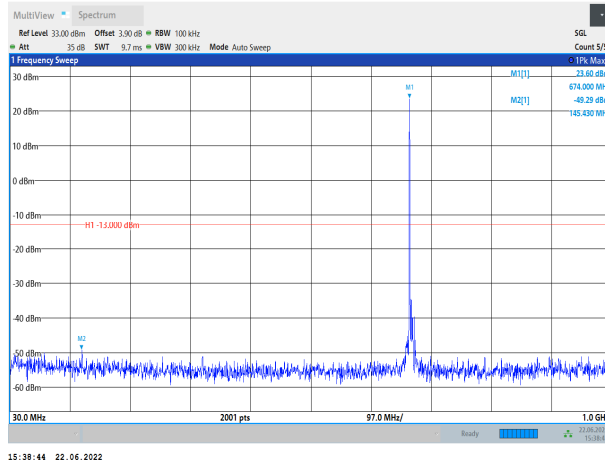


Report No.: SEWA2205000015RG01

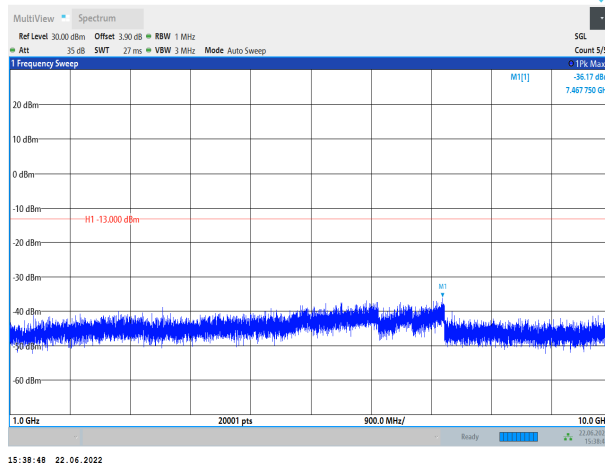
Rev.: 01

Page: 47 of 53

Band71-20MHz-QPSK-133322-1RB#0-Range3:30~1000MHz



Band71-20MHz-QPSK-133322-1RB#0-Range4:1000~10000MHz



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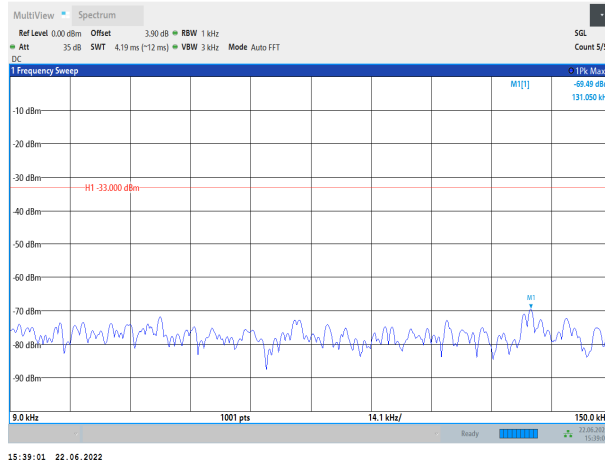


Report No.: SEWA2205000015RG01

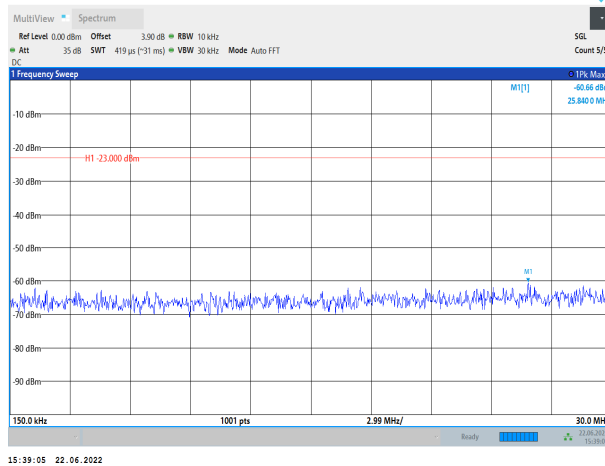
Rev.: 01

Page: 48 of 53

Band71-20MHz-QPSK-133372-1RB#0-Range1:0.009~0.15MHz



Band71-20MHz-QPSK-133372-1RB#0-Range2:0.15~30MHz



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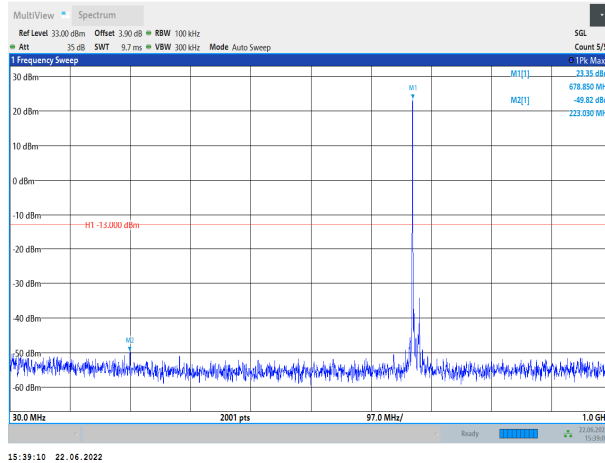


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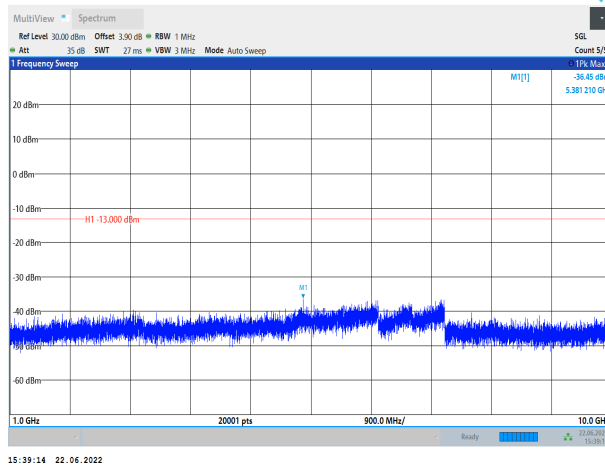
Rev.: 01

Page: 49 of 53

Band71-20MHz-QPSK-133372-1RB#0-Range3:30~1000MHz



Band71-20MHz-QPSK-133372-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 71_ TM1

Test Channel = Low

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1328.1800 | 61.29 | -117.74 | -56.45 | -13.00 | 43.45 | 125 | 212 | Horizontal |
| 2 | 1992.2700 | 49.82 | -116.58 | -66.76 | -13.00 | 53.76 | 236 | 360 | Horizontal |
| 3 | 2656.3600 | 50.38 | -114.05 | -63.67 | -13.00 | 50.67 | 261 | 360 | Horizontal |
| 4 | 3320.4500 | 51.70 | -112.38 | -60.68 | -13.00 | 47.68 | 169 | 212 | Horizontal |
| 5 | 3984.5400 | 48.67 | -110.70 | -62.03 | -13.00 | 49.03 | 185 | 233 | Horizontal |
| 6 | 4648.6300 | 47.82 | -109.20 | -61.38 | -13.00 | 48.38 | 194 | 106 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1328.1800 | 54.86 | -117.74 | -62.88 | -13.00 | 49.88 | 251 | 276 | Vertical |
| 2 | 1992.2700 | 50.37 | -116.58 | -66.21 | -13.00 | 53.21 | 236 | 87 | Vertical |
| 3 | 2656.3600 | 50.98 | -114.05 | -63.07 | -13.00 | 50.07 | 191 | 193 | Vertical |
| 4 | 3320.4500 | 50.44 | -112.38 | -61.94 | -13.00 | 48.94 | 258 | 236 | Vertical |
| 5 | 3984.5400 | 50.09 | -110.70 | -60.61 | -13.00 | 47.61 | 147 | 150 | Vertical |
| 6 | 4648.6300 | 49.50 | -109.20 | -59.70 | -13.00 | 46.70 | 201 | 236 | Vertical |



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Test Band = LTE Band 71_ TM1

Test Channel = Mid

Final Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|--------------------|-------------------|----------------|----------------|----------------|----------------|----------------|--------------|------------|
| 1 | 1348.1800 | 56.53 | -117.72 | -61.19 | -13.00 | 48.19 | 111 | 343 | Horizontal |
| 2 | 2022.2700 | 52.01 | -116.40 | -64.39 | -13.00 | 51.39 | 269 | 145 | Horizontal |
| 3 | 2696.3600 | 50.33 | -114.02 | -63.69 | -13.00 | 50.69 | 195 | 256 | Horizontal |
| 4 | 3370.4500 | 50.06 | -112.37 | -62.31 | -13.00 | 49.31 | 187 | 218 | Horizontal |
| 5 | 4044.5400 | 49.57 | -110.46 | -60.89 | -13.00 | 47.89 | 197 | 354 | Horizontal |
| 6 | 4718.6300 | 48.72 | -108.96 | -60.24 | -13.00 | 47.24 | 142 | 281 | Horizontal |

Final Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|--------------------|-------------------|----------------|----------------|----------------|----------------|----------------|--------------|----------|
| 1 | 1348.1800 | 53.60 | -117.72 | -64.12 | -13.00 | 51.12 | 225 | 70 | Vertical |
| 2 | 2022.2700 | 53.32 | -116.40 | -63.08 | -13.00 | 50.08 | 236 | 325 | Vertical |
| 3 | 2696.3600 | 50.20 | -114.02 | -63.82 | -13.00 | 50.82 | 230 | 113 | Vertical |
| 4 | 3370.4500 | 50.95 | -112.37 | -61.42 | -13.00 | 48.42 | 210 | 154 | Vertical |
| 5 | 4044.5400 | 50.20 | -110.46 | -60.26 | -13.00 | 47.26 | 148 | 134 | Vertical |
| 6 | 4718.6300 | 48.56 | -108.96 | -60.40 | -13.00 | 47.40 | 190 | 3 | Vertical |



Test Band = LTE Band 71_ TM1
Test Channel = High
Final Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| 1 | 1358.1800 | 54.42 | -117.70 | -63.28 | -13.00 | 50.28 | 233 | 351 | Horizontal |
| 2 | 2037.2700 | 51.56 | -116.32 | -64.76 | -13.00 | 51.76 | 265 | 232 | Horizontal |
| 3 | 2716.3600 | 50.89 | -113.97 | -63.08 | -13.00 | 50.08 | 296 | 168 | Horizontal |
| 4 | 3395.4500 | 50.39 | -112.37 | -61.98 | -13.00 | 48.98 | 254 | 317 | Horizontal |
| 5 | 4074.5400 | 49.06 | -110.32 | -61.26 | -13.00 | 48.26 | 181 | 317 | Horizontal |
| 6 | 4753.6300 | 49.25 | -108.79 | -59.54 | -13.00 | 46.54 | 172 | 168 | Horizontal |

Final Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| 1 | 1358.1800 | 52.52 | -117.70 | -65.18 | -13.00 | 52.18 | 211 | 276 | Vertical |
| 2 | 2037.2700 | 51.88 | -116.32 | -64.44 | -13.00 | 51.44 | 143 | 86 | Vertical |
| 3 | 2716.3600 | 50.76 | -113.97 | -63.21 | -13.00 | 50.21 | 236 | 357 | Vertical |
| 4 | 3395.4500 | 51.10 | -112.37 | -61.27 | -13.00 | 48.27 | 191 | 357 | Vertical |
| 5 | 4074.5400 | 49.54 | -110.32 | -60.78 | -13.00 | 47.78 | 254 | 43 | Vertical |
| 6 | 4753.6300 | 48.55 | -108.79 | -60.24 | -13.00 | 47.24 | 180 | 65 | Vertical |

Remark:

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

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)



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Frequency Stability

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | VL | NT | 0.10 | 0.000146 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | VN | NT | 0.80 | 0.001171 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | VH | NT | 0.50 | 0.000732 | PASS |

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | NV | -30 | 1.40 | 0.002050 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | NV | -20 | 0.80 | 0.001171 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | NV | -10 | -1.20 | -0.001757 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | NV | 0 | -1.50 | -0.002196 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | NV | 10 | 1.90 | 0.002782 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | NV | 20 | -1.50 | -0.002196 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | NV | 30 | 1.50 | 0.002196 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | NV | 40 | 1.30 | 0.001903 | PASS |
| Band71 | 20MHz | QPSK | 133322 | 100RB#0 | NV | 50 | 1.20 | 0.001757 | PASS |

The End

