

Report No.: SUHR/2022/1001001

Rev.: 01

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Appendix



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Effective (Isotropic) Radiated Power Output Data

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|-----------|------------|---------|
| Band13 | 5MHz | QPSK | 23205 | 1RB#0 | 23.62 | 16.57 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#12 | 24.22 | 17.17 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#24 | 23.56 | 16.51 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 22.84 | 15.79 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#0 | 23.61 | 16.56 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#12 | 23.64 | 16.59 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#24 | 23.45 | 16.40 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 22.70 | 15.65 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#0 | 23.58 | 16.53 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#12 | 24.01 | 16.96 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#24 | 23.35 | 16.30 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 22.64 | 15.59 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#0 | 22.72 | 15.67 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#12 | 22.97 | 15.92 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#24 | 22.54 | 15.49 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 21.80 | 14.75 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#0 | 22.67 | 15.62 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#12 | 22.48 | 15.43 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#24 | 22.50 | 15.45 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 25RB#0 | 21.77 | 14.72 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#0 | 22.45 | 15.40 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#12 | 22.57 | 15.52 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#24 | 22.42 | 15.37 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 25RB#0 | 21.57 | 14.52 | 34.77 | PASS |



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|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band13 | 10MHz | QPSK | 23230 | 1RB#0 | 24.11 | 17.06 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#24 | 23.83 | 16.78 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#49 | 23.61 | 16.56 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 22.88 | 15.83 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#0 | 22.94 | 15.89 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#24 | 22.67 | 15.62 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#49 | 22.47 | 15.42 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | 21.81 | 14.76 | 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 |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 5.56 | 13 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | 6.32 | 13 | PASS |



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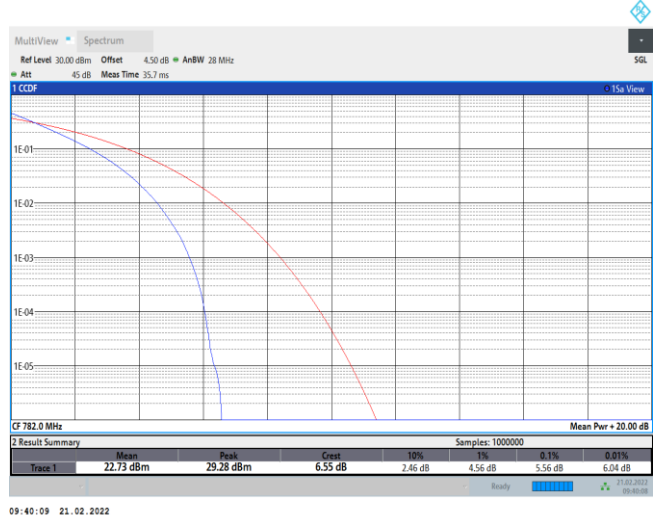
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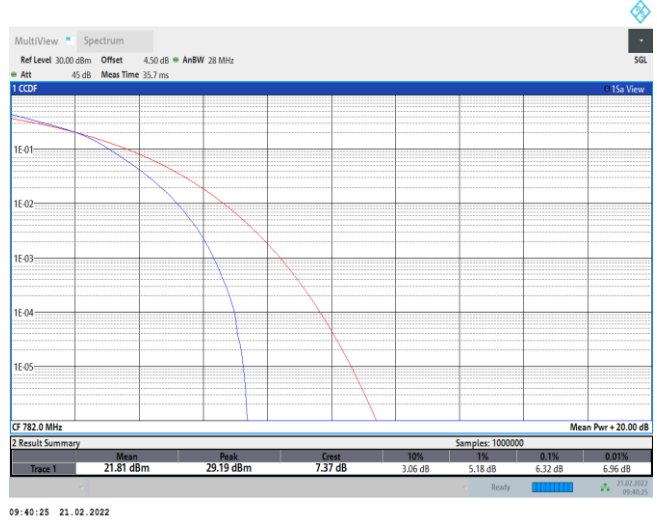
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Test Graphs

Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0



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Modulation Characteristics

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|--------|-----------|------------|---------|------------------|--------|---------|
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | PASS | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | PASS | PASS |



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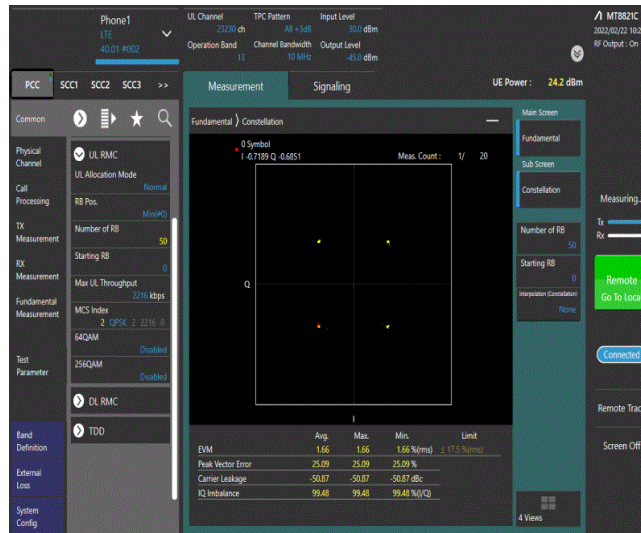
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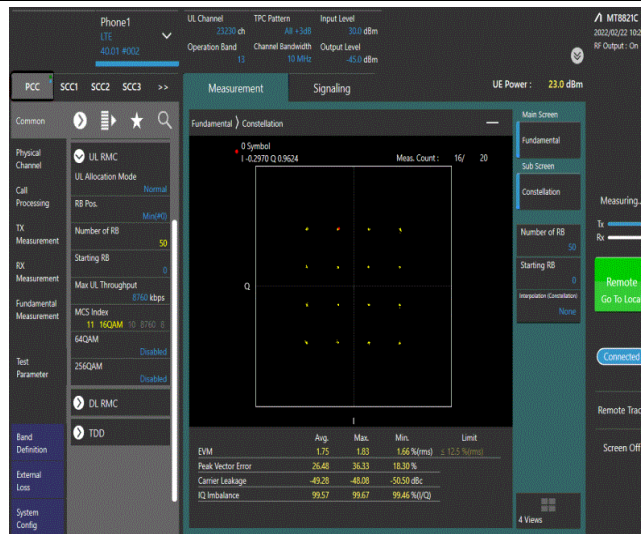
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Test Graphs

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Band13-10MHz-16QAM-23230-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 4.456 | 4.87 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 4.468 | 4.89 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 4.463 | 4.90 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 4.454 | 4.94 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 25RB#0 | 4.467 | 4.97 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 25RB#0 | 4.466 | 4.95 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 8.921 | 9.68 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | 8.905 | 9.62 | PASS |



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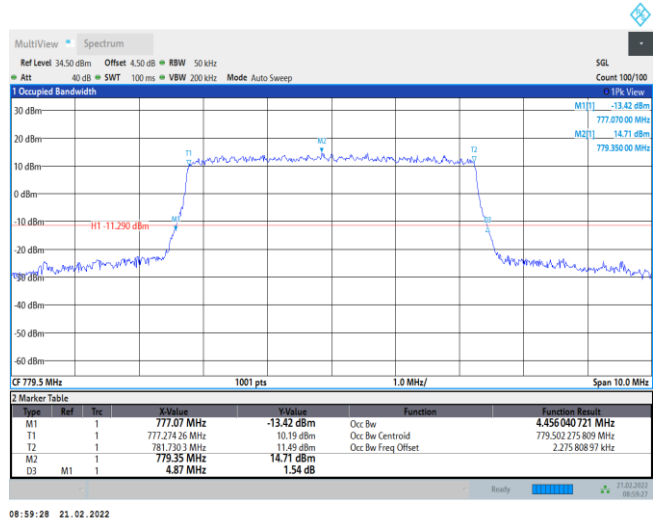
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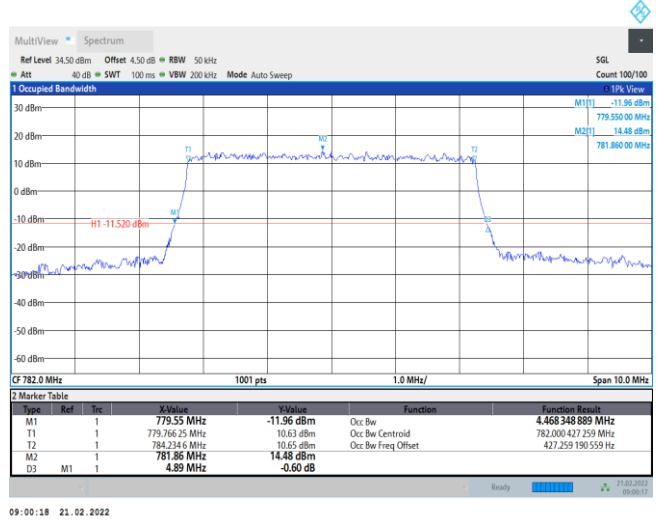
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Test Graphs

Band13-5MHz-QPSK-23205-25RB#0



Band13-5MHz-QPSK-23230-25RB#0

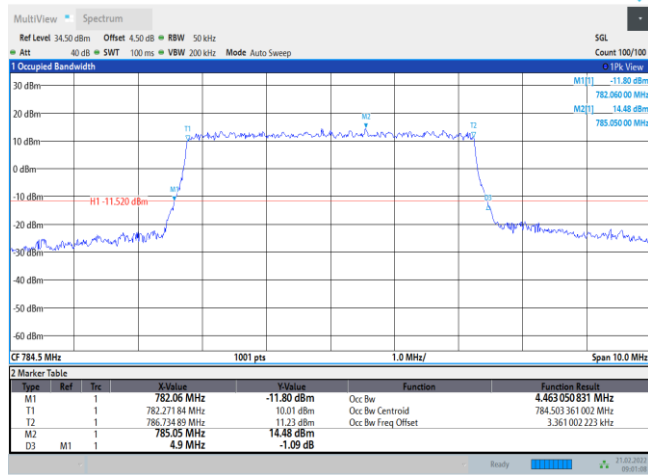


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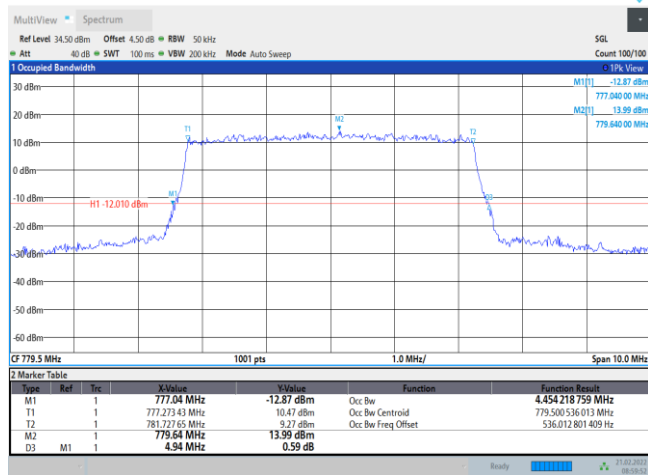
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Band13-5MHz-QPSK-23255-25RB#0



09:01:09 21.02.2022

Band13-5MHz-16QAM-23205-25RB#0



08:59:53 21.02.2022

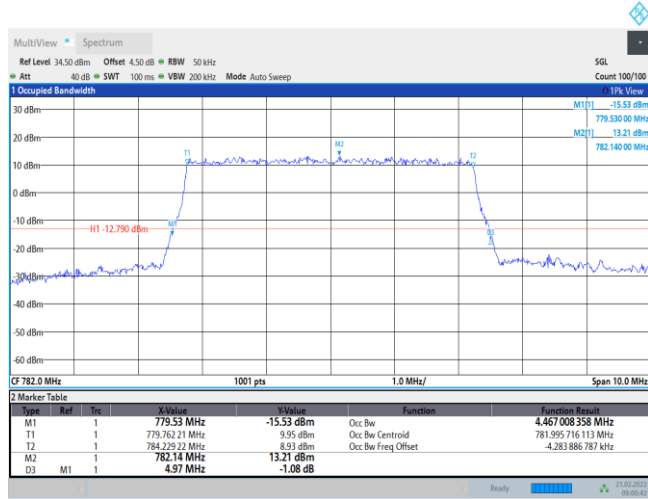


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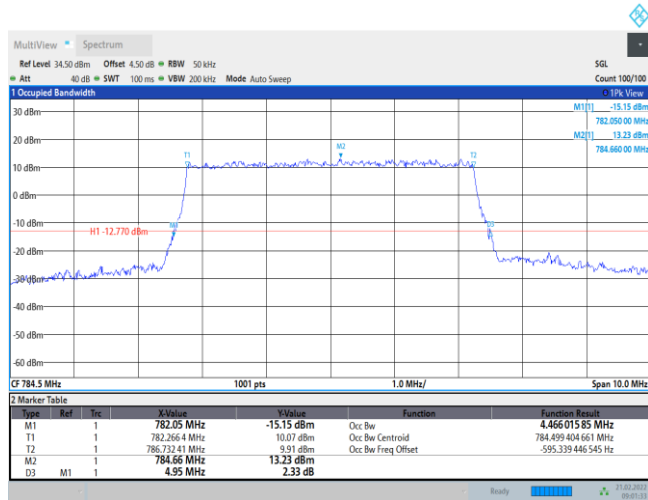
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Band13-5MHz-16QAM-23230-25RB#0



09:00:43 21.02.2022

Band13-5MHz-16QAM-23255-25RB#0



09:01:34 21.02.2022

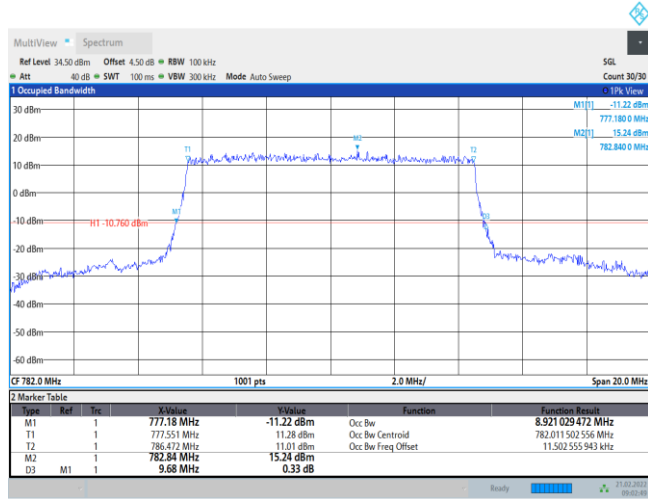


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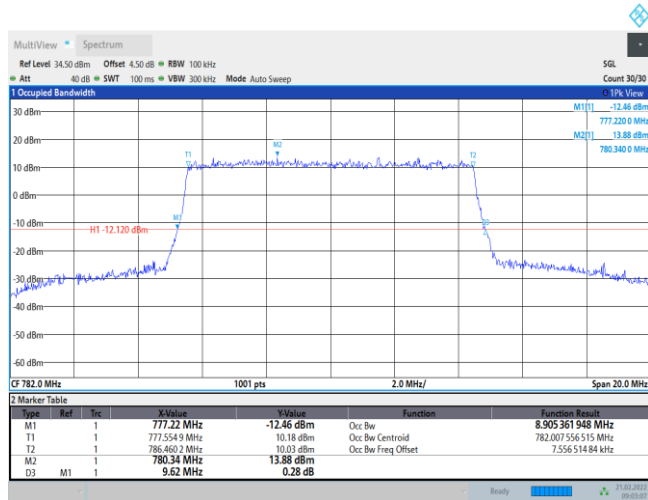
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Band13-10MHz-QPSK-23230-50RB#0



09:02:49 21.02.2022

Band13-10MHz-16QAM-23230-50RB#0



09:03:07 21.02.2022



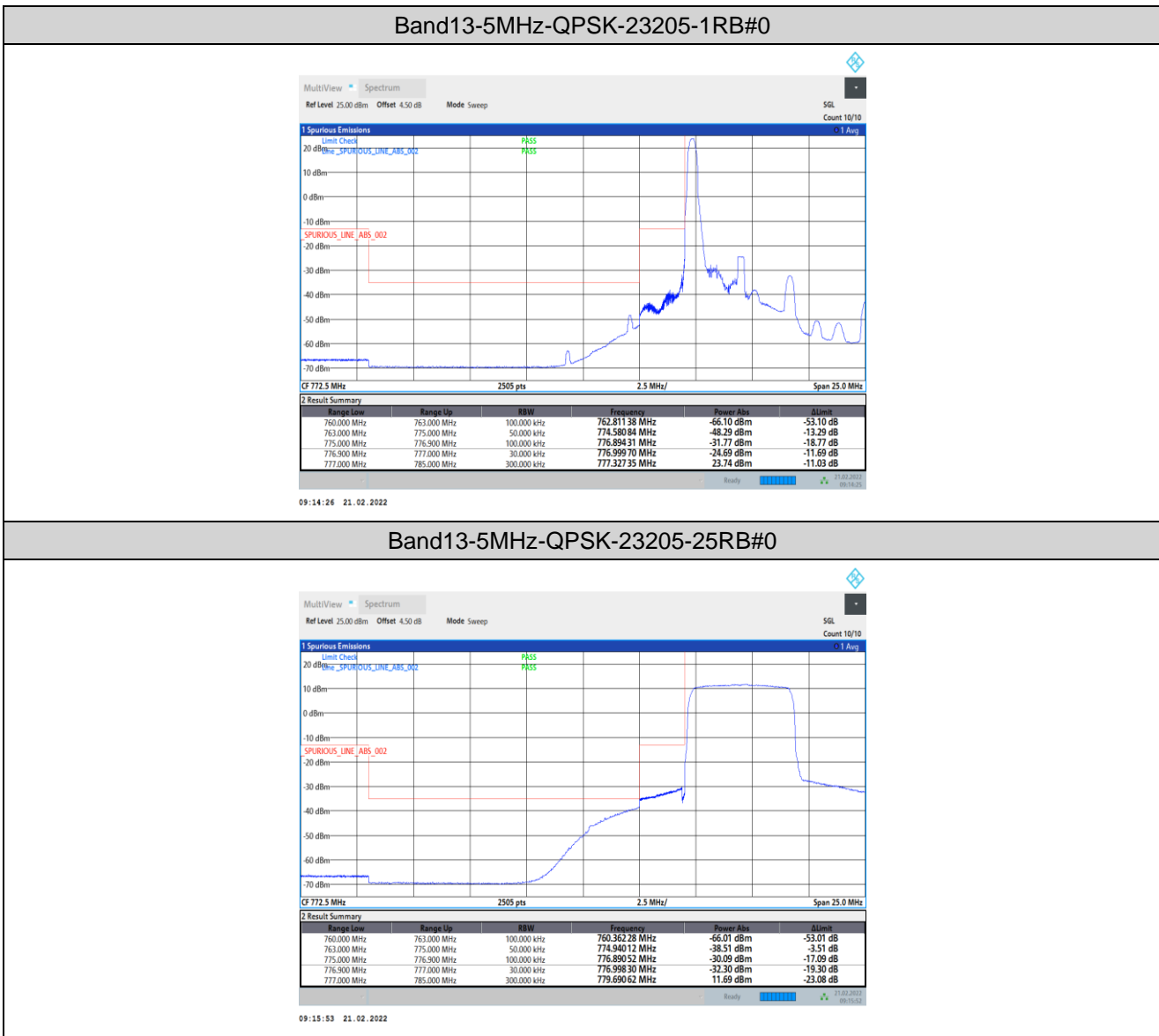
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Band Edge

Test Graphs

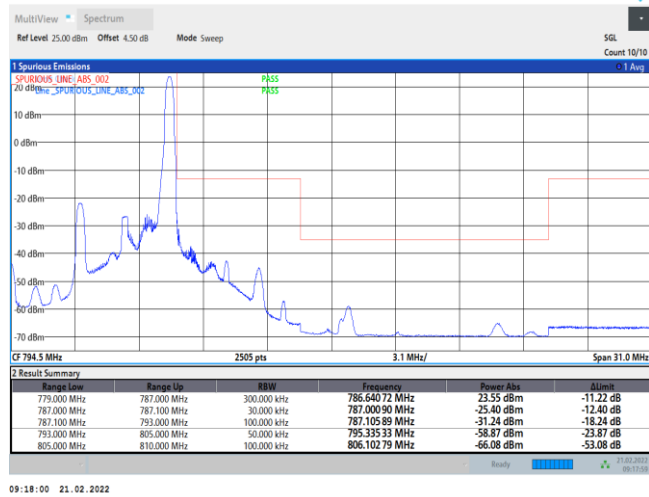


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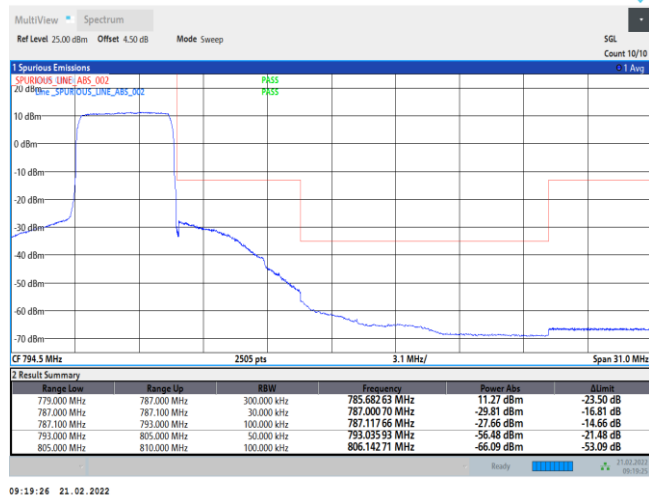
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Band13-5MHz-QPSK-23255-1RB#24



Band13-5MHz-QPSK-23255-25RB#0

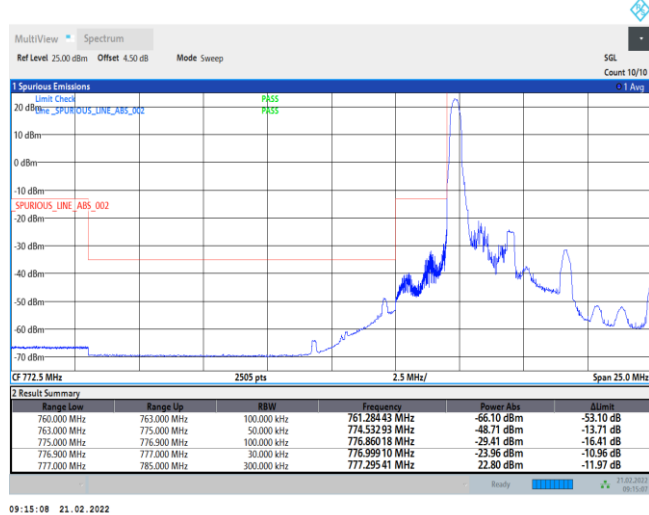


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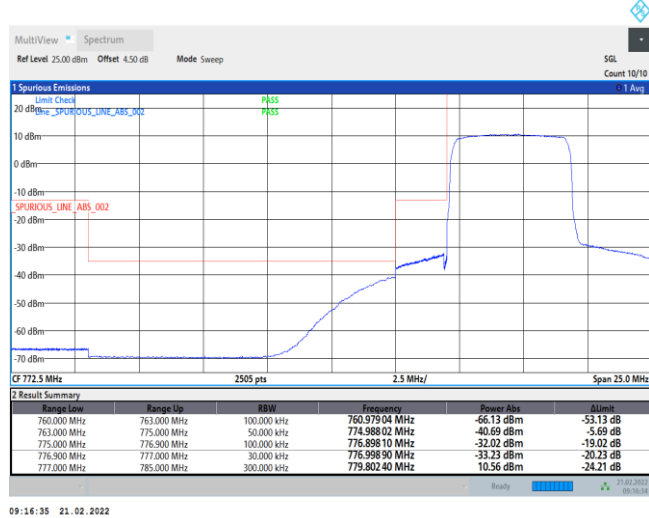
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Band13-5MHz-16QAM-23205-1RB#0



Band13-5MHz-16QAM-23205-25RB#0

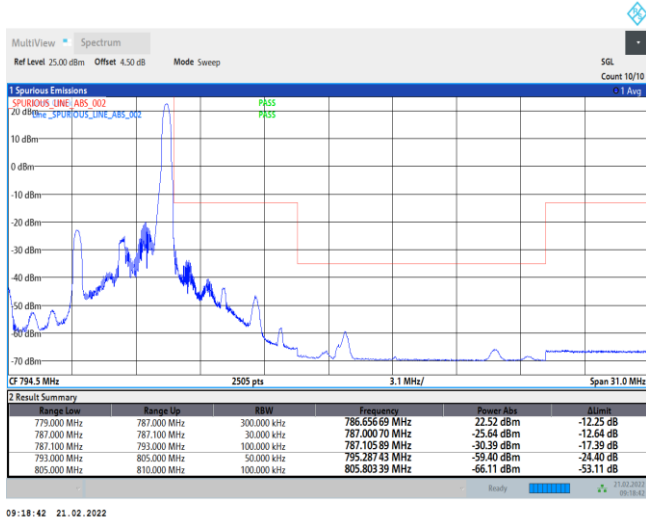


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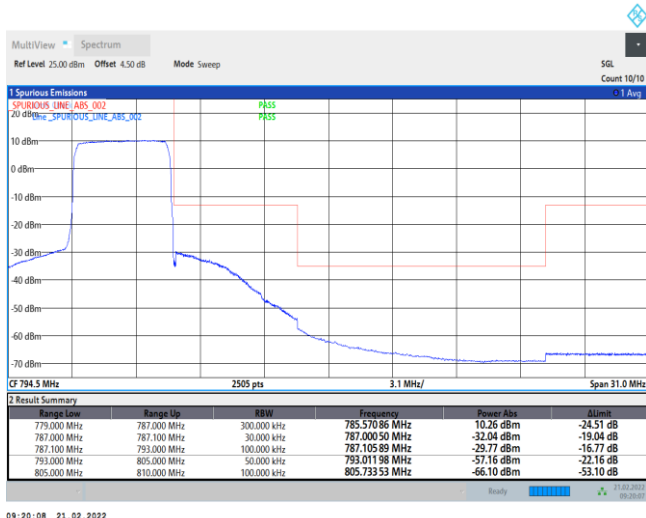
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Band13-5MHz-16QAM-23255-1RB#24



Band13-5MHz-16QAM-23255-25RB#0



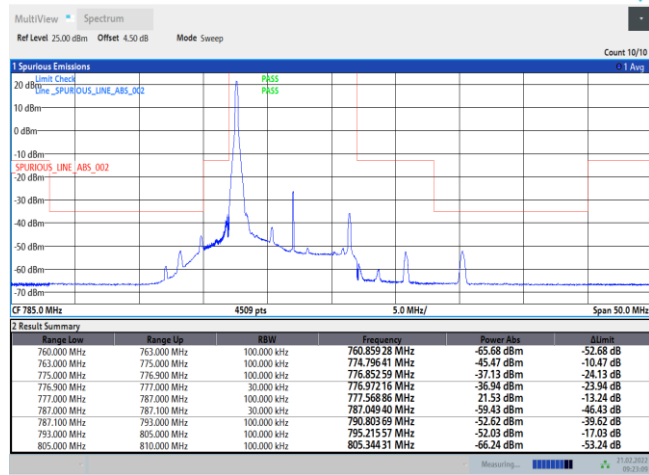
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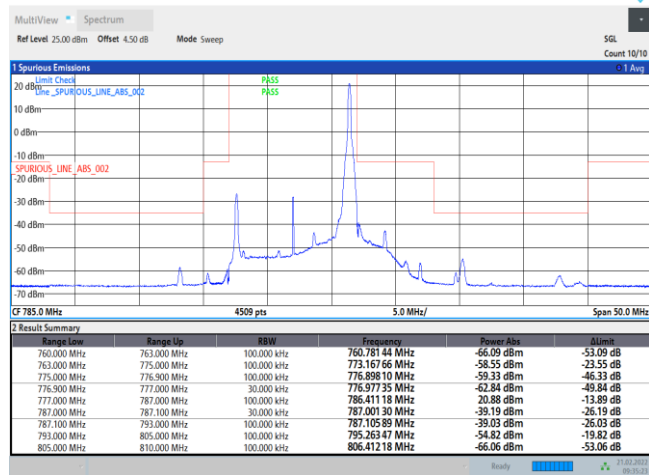
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Band13-10MHz-QPSK-23230-1RB#0



Band13-10MHz-QPSK-23230-1RB#49

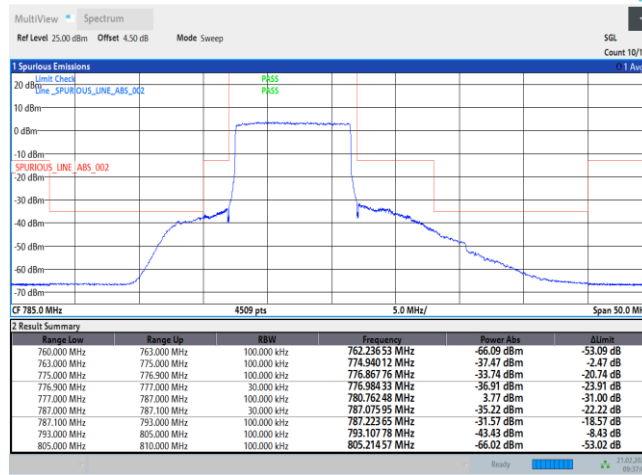


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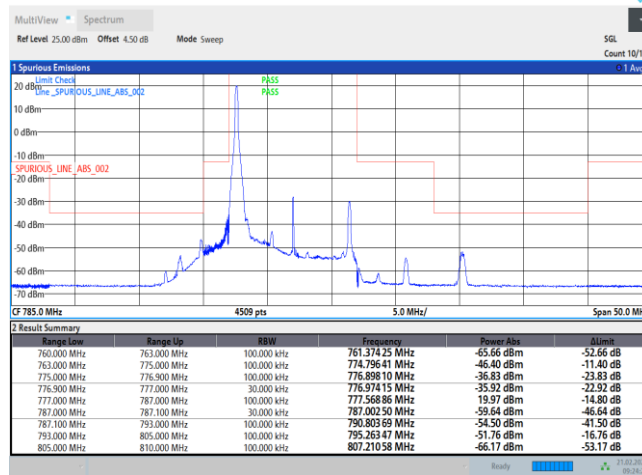
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Band13-10MHz-QPSK-23230-50RB#0



09:37:02 21.02.2022

Band13-10MHz-16QAM-23230-1RB#0



09:24:22 21.02.2022

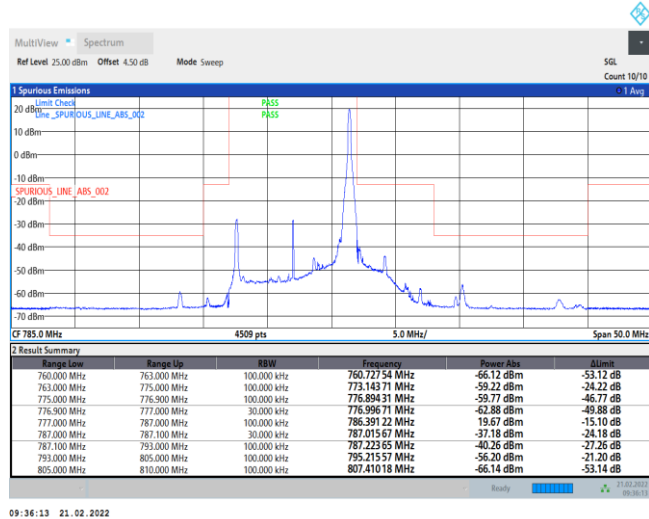


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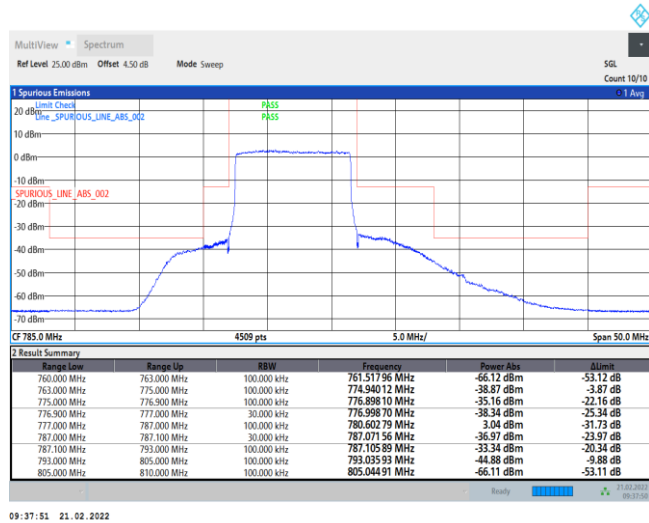
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Band13-10MHz-16QAM-23230-1RB#49



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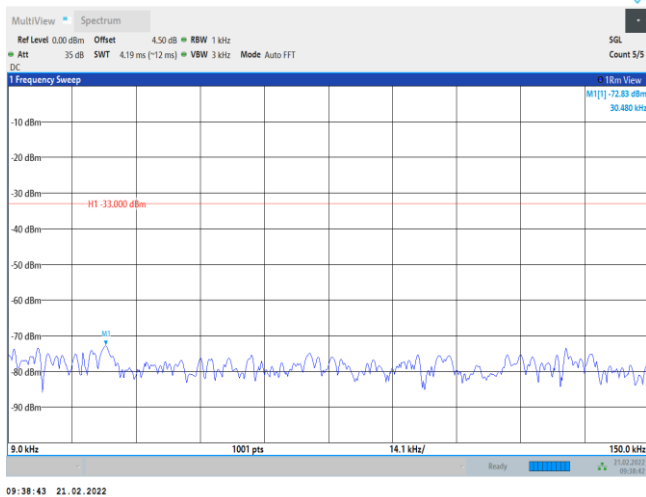
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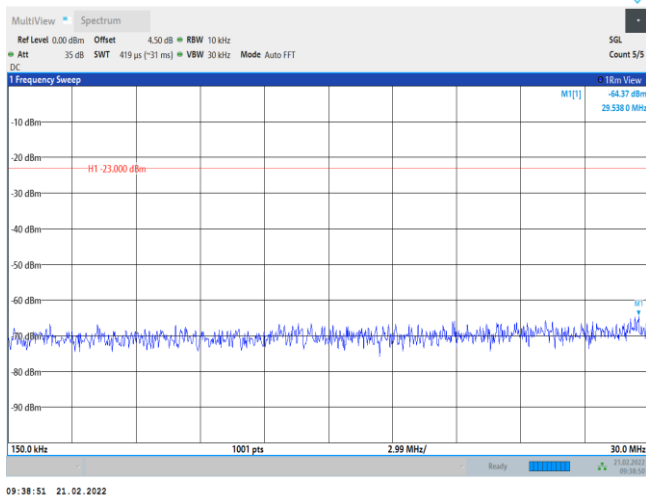
Conducted Spurious Emission

Test Graphs

Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



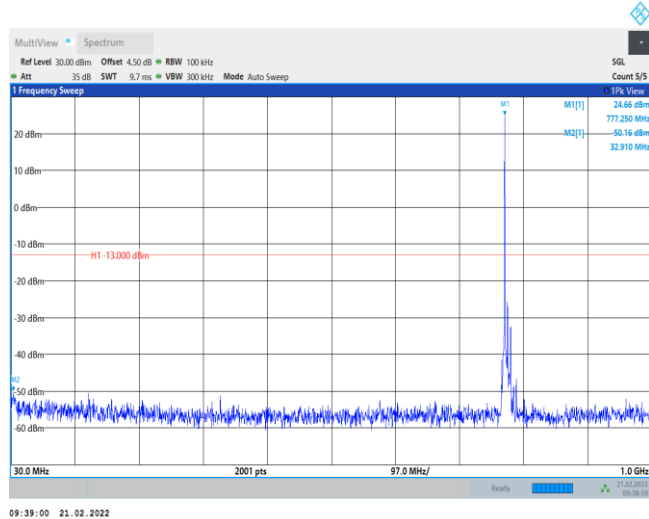
Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



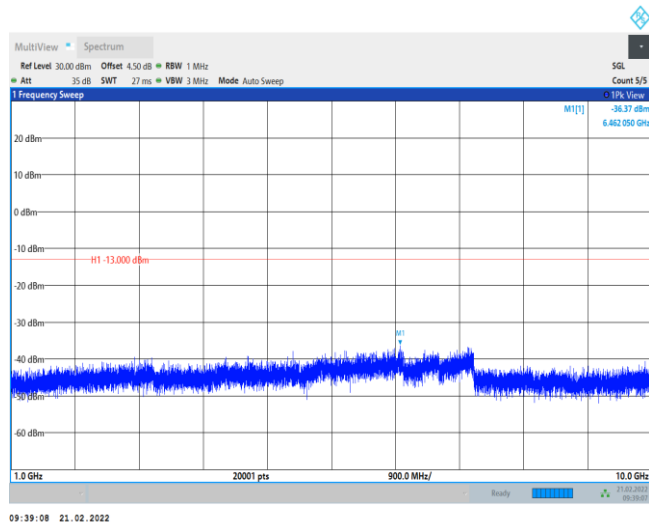
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



Band13-10MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = _Band13_10M ANT1 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 | 544.1300 | 51.97 | -116.99 | -65.02 | -13.00 | 52.02 | 165 | 4 | Horizontal |
| 2 | 1555.1800 | 51.99 | -118.15 | -66.16 | -13.00 | 53.16 | 241 | 354 | Horizontal |
| 3 | 2332.7700 | 59.32 | -115.34 | -56.02 | -13.00 | 43.02 | 188 | 273 | Horizontal |
| 4 | 3110.3600 | 51.62 | -112.43 | -60.81 | -13.00 | 47.81 | 169 | 312 | Horizontal |
| 5 | 3887.9500 | 49.12 | -110.94 | -61.82 | -13.00 | 48.82 | 142 | 26 | Horizontal |
| 6 | 4665.5400 | 49.26 | -109.15 | -59.89 | -13.00 | 46.89 | 136 | 66 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 544.1300 | 51.92 | -116.99 | -65.07 | -13.00 | 52.07 | 166 | 257 | Vertical |
| 2 | 1555.1800 | 53.07 | -118.15 | -65.08 | -13.00 | 52.08 | 142 | 127 | Vertical |
| 3 | 2332.7700 | 52.69 | -115.34 | -62.65 | -13.00 | 49.65 | 188 | 335 | Vertical |
| 4 | 3110.3600 | 49.58 | -112.43 | -62.85 | -13.00 | 49.85 | 164 | 207 | Vertical |
| 5 | 3887.9500 | 49.13 | -110.94 | -61.81 | -13.00 | 48.81 | 133 | 193 | Vertical |
| 6 | 4665.5400 | 49.16 | -109.15 | -59.99 | -13.00 | 46.99 | 199 | 127 | Vertical |



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Test Band = Band13_5M ANT1 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 | 1554.6800 | 50.67 | -118.15 | -67.48 | -13.00 | 54.48 | 122 | 129 | Horizontal |
| 2 | 2332.0200 | 50.88 | -115.34 | -64.46 | -13.00 | 51.46 | 235 | 78 | Horizontal |
| 3 | 3109.3600 | 50.92 | -112.43 | -61.51 | -13.00 | 48.51 | 184 | 65 | Horizontal |
| 4 | 3886.7000 | 49.51 | -110.95 | -61.44 | -13.00 | 48.44 | 175 | 4 | Horizontal |
| 5 | 4664.0400 | 48.70 | -109.15 | -60.45 | -13.00 | 47.45 | 166 | 336 | Horizontal |
| 6 | 5441.3800 | 48.75 | -107.46 | -58.71 | -13.00 | 45.71 | 124 | 246 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1554.6800 | 51.18 | -118.15 | -66.97 | -13.00 | 53.97 | 168 | 38 | Vertical |
| 2 | 2332.0200 | 50.33 | -115.34 | -65.01 | -13.00 | 52.01 | 175 | 272 | Vertical |
| 3 | 3109.3600 | 50.77 | -112.43 | -61.66 | -13.00 | 48.66 | 144 | 310 | Vertical |
| 4 | 3886.7000 | 49.39 | -110.95 | -61.56 | -13.00 | 48.56 | 129 | 245 | Vertical |
| 5 | 4664.0400 | 48.98 | -109.15 | -60.17 | -13.00 | 47.17 | 135 | 181 | Vertical |
| 6 | 5441.3800 | 49.17 | -107.46 | -58.29 | -13.00 | 45.29 | 102 | 272 | Vertical |



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Test Band = _Band13_5M ANT1 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 | 1559.6800 | 50.75 | -118.15 | -67.40 | -40.00 | 27.40 | 198 | 359 | Horizontal |
| 2 | 2339.5200 | 50.68 | -115.33 | -64.65 | -13.00 | 51.65 | 233 | 245 | Horizontal |
| 3 | 3119.3600 | 49.27 | -112.37 | -63.10 | -13.00 | 50.10 | 266 | 233 | Horizontal |
| 4 | 3899.2000 | 49.36 | -110.93 | -61.57 | -13.00 | 48.57 | 145 | 195 | Horizontal |
| 5 | 4679.0400 | 48.52 | -109.11 | -60.59 | -13.00 | 47.59 | 188 | 53 | Horizontal |
| 6 | 5458.8800 | 47.84 | -107.47 | -59.63 | -13.00 | 46.63 | 145 | 195 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1559.6800 | 51.48 | -118.15 | -66.67 | -40.00 | 26.67 | 148 | 6 | Vertical |
| 2 | 2339.5200 | 50.43 | -115.33 | -64.90 | -13.00 | 51.90 | 194 | 64 | Vertical |
| 3 | 3119.3600 | 49.44 | -112.37 | -62.93 | -13.00 | 49.93 | 235 | 114 | Vertical |
| 4 | 3899.2000 | 48.61 | -110.93 | -62.32 | -13.00 | 49.32 | 146 | 23 | Vertical |
| 5 | 4679.0400 | 49.58 | -109.11 | -59.53 | -13.00 | 46.53 | 177 | 256 | Vertical |
| 6 | 5458.8800 | 48.49 | -107.47 | -58.98 | -13.00 | 45.98 | 122 | 297 | Vertical |



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Test Band = _Band13_5M ANT1 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 | 1564.6800 | 51.03 | -118.16 | -67.13 | -40.00 | 27.13 | 189 | 311 | Horizontal |
| 2 | 2347.0200 | 51.21 | -115.32 | -64.11 | -13.00 | 51.11 | 174 | 15 | Horizontal |
| 3 | 3129.3600 | 50.48 | -112.31 | -61.83 | -13.00 | 48.83 | 126 | 299 | Horizontal |
| 4 | 3911.7000 | 50.79 | -110.89 | -60.10 | -13.00 | 47.10 | 145 | 259 | Horizontal |
| 5 | 4694.0400 | 48.18 | -109.06 | -60.88 | -13.00 | 47.88 | 194 | 273 | Horizontal |
| 6 | 5476.3800 | 49.20 | -107.48 | -58.28 | -13.00 | 45.28 | 237 | 266 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1564.6800 | 51.74 | -118.16 | -66.42 | -40.00 | 26.42 | 142 | 188 | Vertical |
| 2 | 2347.0200 | 51.93 | -115.32 | -63.39 | -13.00 | 50.39 | 197 | 165 | Vertical |
| 3 | 3129.3600 | 51.17 | -112.31 | -61.14 | -13.00 | 48.14 | 142 | 127 | Vertical |
| 4 | 3911.7000 | 49.32 | -110.89 | -61.57 | -13.00 | 48.57 | 204 | 356 | Vertical |
| 5 | 4694.0400 | 49.07 | -109.06 | -59.99 | -13.00 | 46.99 | 239 | 101 | Vertical |
| 6 | 5476.3800 | 49.05 | -107.48 | -58.43 | -13.00 | 45.43 | 144 | 294 | Vertical |



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Test Band = _Band13_10M ANT0 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 | 544.1300 | 53.44 | -116.99 | -63.55 | -13.00 | 50.55 | 184 | 13 | Horizontal |
| 2 | 1555.1800 | 59.18 | -118.15 | -58.97 | -13.00 | 45.97 | 266 | 90 | Horizontal |
| 3 | 2332.5714 | 68.81 | -115.34 | -46.53 | -13.00 | 33.53 | 234 | 232 | Horizontal |
| 4 | 3110.3600 | 53.94 | -112.43 | -58.49 | -13.00 | 45.49 | 194 | 352 | Horizontal |
| 5 | 3887.9500 | 50.94 | -110.94 | -60.00 | -13.00 | 47.00 | 188 | 258 | Horizontal |
| 6 | 4665.5400 | 48.65 | -109.15 | -60.50 | -13.00 | 47.50 | 201 | 13 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 544.1300 | 53.25 | -116.99 | -63.74 | -13.00 | 50.74 | 189 | 269 | Vertical |
| 2 | 1555.1800 | 58.11 | -118.15 | -60.04 | -13.00 | 47.04 | 164 | 335 | Vertical |
| 3 | 2332.7700 | 62.77 | -115.34 | -52.57 | -13.00 | 39.57 | 172 | 1 | Vertical |
| 4 | 3110.3600 | 52.03 | -112.43 | -60.40 | -13.00 | 47.40 | 205 | 77 | Vertical |
| 5 | 3887.9500 | 50.58 | -110.94 | -60.36 | -13.00 | 47.36 | 133 | 50 | Vertical |
| 6 | 4665.5400 | 48.41 | -109.15 | -60.74 | -13.00 | 47.74 | 155 | 219 | Vertical |



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Test Band = Band13_5M ANT0 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 | 1554.6800 | 63.66 | -118.15 | -54.49 | -13.00 | 41.49 | 125 | 38 | Horizontal |
| 2 | 2332 | 68.54 | -115.34 | -46.80 | -13.00 | 33.80 | 122 | 232 | Horizontal |
| 3 | 3109.3600 | 52.64 | -112.43 | -59.79 | -13.00 | 46.79 | 194 | 311 | Horizontal |
| 4 | 3886.7000 | 55.46 | -110.95 | -55.49 | -13.00 | 42.49 | 188 | 154 | Horizontal |
| 5 | 4664.0400 | 49.40 | -109.15 | -59.75 | -13.00 | 46.75 | 172 | 360 | Horizontal |
| 6 | 5441.3800 | 48.67 | -107.46 | -58.79 | -13.00 | 45.79 | 127 | 246 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1554.6800 | 60.05 | -118.15 | -58.10 | -13.00 | 45.10 | 236 | 36 | Vertical |
| 2 | 2332.0200 | 61.50 | -115.34 | -53.84 | -13.00 | 40.84 | 259 | 89 | Vertical |
| 3 | 3109.3600 | 50.20 | -112.43 | -62.23 | -13.00 | 49.23 | 194 | 295 | Vertical |
| 4 | 3886.7000 | 49.25 | -110.95 | -61.70 | -13.00 | 48.70 | 182 | 218 | Vertical |
| 5 | 4664.0400 | 48.35 | -109.15 | -60.80 | -13.00 | 47.80 | 134 | 74 | Vertical |
| 6 | 5441.3800 | 47.72 | -107.46 | -59.74 | -13.00 | 46.74 | 177 | 230 | Vertical |



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Test Band = _Band13_5M ANT0 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 | 1559.6800 | 58.68 | -118.15 | -59.47 | -40.00 | 19.47 | 129 | 25 | Horizontal |
| 2 | 2339.5200 | 67.17 | -115.33 | -48.16 | -13.00 | 35.16 | 234 | 246 | Horizontal |
| 3 | 3119.3600 | 50.32 | -112.37 | -62.05 | -13.00 | 49.05 | 177 | 194 | Horizontal |
| 4 | 3899.2000 | 55.08 | -110.93 | -55.85 | -13.00 | 42.85 | 102 | 194 | Horizontal |
| 5 | 4679.0400 | 47.48 | -109.11 | -61.63 | -13.00 | 48.63 | 155 | 335 | Horizontal |
| 6 | 5458.8800 | 48.85 | -107.47 | -58.62 | -13.00 | 45.62 | 196 | 142 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1559.4286 | 59.39 | -118.15 | -58.76 | -40.00 | 18.76 | 134 | 334 | Vertical |
| 2 | 2339.4286 | 61.94 | -115.33 | -53.39 | -13.00 | 40.39 | 166 | 307 | Vertical |
| 3 | 3119.3600 | 50.72 | -112.37 | -61.65 | -13.00 | 48.65 | 194 | 281 | Vertical |
| 4 | 3899.2000 | 50.23 | -110.93 | -60.70 | -13.00 | 47.70 | 175 | 281 | Vertical |
| 5 | 4679.0400 | 47.52 | -109.11 | -61.59 | -13.00 | 48.59 | 124 | 100 | Vertical |
| 6 | 5458.8800 | 50.83 | -107.47 | -56.64 | -13.00 | 43.64 | 235 | 125 | Vertical |



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Test Band = _Band13_5M ANT0 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 | 1564.5714 | 60.02 | -118.16 | -58.14 | -40.00 | 18.14 | 168 | 91 | Horizontal |
| 2 | 2347.0200 | 61.75 | -115.32 | -53.57 | -13.00 | 40.57 | 194 | 4 | Horizontal |
| 3 | 3129.3600 | 50.99 | -112.31 | -61.32 | -13.00 | 48.32 | 172 | 359 | Horizontal |
| 4 | 3911.7000 | 48.85 | -110.89 | -62.04 | -13.00 | 49.04 | 235 | 156 | Horizontal |
| 5 | 4694.0400 | 48.26 | -109.06 | -60.80 | -13.00 | 47.80 | 144 | 156 | Horizontal |
| 6 | 5476.3800 | 48.40 | -107.48 | -59.08 | -13.00 | 46.08 | 205 | 78 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1564.5714 | 57.08 | -118.16 | -61.08 | -40.00 | 21.08 | 184 | 49 | Vertical |
| 2 | 2346.8571 | 57.65 | -115.32 | -57.67 | -13.00 | 44.67 | 175 | 308 | Vertical |
| 3 | 3129.3600 | 51.05 | -112.31 | -61.26 | -13.00 | 48.26 | 233 | 16 | Vertical |
| 4 | 3911.7000 | 49.99 | -110.89 | -60.90 | -13.00 | 47.90 | 295 | 102 | Vertical |
| 5 | 4694.0400 | 47.94 | -109.06 | -61.12 | -13.00 | 48.12 | 142 | 284 | Vertical |
| 6 | 5476.3800 | 48.69 | -107.48 | -58.79 | -13.00 | 45.79 | 108 | 230 | Vertical |



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Test Band = Band13_10M ANT3 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 | 544.1300 | 53.18 | -116.99 | -63.81 | -13.00 | 50.81 | 175 | 204 | Horizontal |
| 2 | 1555.1800 | 59.51 | -118.15 | -58.64 | -13.00 | 45.64 | 124 | 63 | Horizontal |
| 3 | 2332.7700 | 62.76 | -115.34 | -52.58 | -13.00 | 39.58 | 133 | 141 | Horizontal |
| 4 | 3110.3600 | 52.67 | -112.43 | -59.76 | -13.00 | 46.76 | 235 | 15 | Horizontal |
| 5 | 3887.9500 | 49.86 | -110.94 | -61.08 | -13.00 | 48.08 | 194 | 345 | Horizontal |
| 6 | 4665.5400 | 48.53 | -109.15 | -60.62 | -13.00 | 47.62 | 172 | 233 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 544.1300 | 52.19 | -116.99 | -64.80 | -13.00 | 51.80 | 177 | 356 | Vertical |
| 2 | 1555.1800 | 60.01 | -118.15 | -58.14 | -13.00 | 45.14 | 104 | 335 | Vertical |
| 3 | 2332.7700 | 61.72 | -115.34 | -53.62 | -13.00 | 40.62 | 294 | 91 | Vertical |
| 4 | 3110.3600 | 51.46 | -112.43 | -60.97 | -13.00 | 47.97 | 188 | 257 | Vertical |
| 5 | 3887.9500 | 48.91 | -110.94 | -62.03 | -13.00 | 49.03 | 107 | 3 | Vertical |
| 6 | 4665.5400 | 49.07 | -109.15 | -60.08 | -13.00 | 47.08 | 234 | 15 | Vertical |



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Test Band = Band13_5M ANT3 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 | 1554.6800 | 60.06 | -118.15 | -58.09 | -13.00 | 45.09 | 148 | 103 | Horizontal |
| 2 | 2332 | 70.10 | -115.34 | -45.24 | -13.00 | 32.24 | 132 | 246 | Horizontal |
| 3 | 3109.3600 | 55.34 | -112.43 | -57.09 | -13.00 | 44.09 | 266 | 145 | Horizontal |
| 4 | 3886.7000 | 53.07 | -110.95 | -57.88 | -13.00 | 44.88 | 294 | 255 | Horizontal |
| 5 | 4664.0400 | 47.94 | -109.15 | -61.21 | -13.00 | 48.21 | 172 | 90 | Horizontal |
| 6 | 5441.3800 | 48.39 | -107.46 | -59.07 | -13.00 | 46.07 | 288 | 167 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1554.6800 | 60.72 | -118.15 | -57.43 | -13.00 | 44.43 | 235 | 347 | Vertical |
| 2 | 2332 | 62.12 | -115.34 | -53.22 | -13.00 | 40.22 | 145 | 294 | Vertical |
| 3 | 3109.3600 | 51.41 | -112.43 | -61.02 | -13.00 | 48.02 | 196 | 243 | Vertical |
| 4 | 3886.7000 | 52.44 | -110.95 | -58.51 | -13.00 | 45.51 | 234 | 307 | Vertical |
| 5 | 4664.0400 | 49.19 | -109.15 | -59.96 | -13.00 | 46.96 | 188 | 178 | Vertical |
| 6 | 5441.3800 | 49.46 | -107.46 | -58.00 | -13.00 | 45.00 | 221 | 257 | Vertical |



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

Test Band = _Band13_5M ANT3 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 | 1559.6800 | 58.97 | -118.15 | -59.18 | -40.00 | 19.18 | 178 | 25 | Horizontal |
| 2 | 2339.5200 | 63.23 | -115.33 | -52.10 | -13.00 | 39.10 | 194 | 284 | Horizontal |
| 3 | 3119.3600 | 50.11 | -112.37 | -62.26 | -13.00 | 49.26 | 205 | 296 | Horizontal |
| 4 | 3899.2000 | 50.14 | -110.93 | -60.79 | -13.00 | 47.79 | 236 | 335 | Horizontal |
| 5 | 4679.0400 | 48.40 | -109.11 | -60.71 | -13.00 | 47.71 | 254 | 25 | Horizontal |
| 6 | 5458.8800 | 48.39 | -107.47 | -59.08 | -13.00 | 46.08 | 188 | 232 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1559.6800 | 59.48 | -118.15 | -58.67 | -40.00 | 18.67 | 187 | 284 | Vertical |
| 2 | 2339.5200 | 59.33 | -115.33 | -56.00 | -13.00 | 43.00 | 194 | 206 | Vertical |
| 3 | 3119.3600 | 52.37 | -112.37 | -60.00 | -13.00 | 47.00 | 183 | 180 | Vertical |
| 4 | 3899.2000 | 50.82 | -110.93 | -60.11 | -13.00 | 47.11 | 236 | 91 | Vertical |
| 5 | 4679.0400 | 48.31 | -109.11 | -60.80 | -13.00 | 47.80 | 266 | 295 | Vertical |
| 6 | 5458.8800 | 48.46 | -107.47 | -59.01 | -13.00 | 46.01 | 214 | 38 | Vertical |



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Test Band = _Band13_5M ANT3 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 | 1564.5714 | 61.04 | -118.16 | -57.12 | -40.00 | 17.12 | 184 | 144 | Horizontal |
| 2 | 2347.0200 | 63.73 | -115.32 | -51.59 | -13.00 | 38.59 | 126 | 188 | Horizontal |
| 3 | 3129.3600 | 49.41 | -112.31 | -62.90 | -13.00 | 49.90 | 284 | 221 | Horizontal |
| 4 | 3911.7000 | 51.72 | -110.89 | -59.17 | -13.00 | 46.17 | 172 | 13 | Horizontal |
| 5 | 4694.0400 | 48.07 | -109.06 | -60.99 | -13.00 | 47.99 | 235 | 195 | Horizontal |
| 6 | 5476.3800 | 48.26 | -107.48 | -59.22 | -13.00 | 46.22 | 147 | 360 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1564.5714 | 56.92 | -118.16 | -61.24 | -40.00 | 21.24 | 188 | 284 | Vertical |
| 2 | 2347.0200 | 55.80 | -115.32 | -59.52 | -13.00 | 46.52 | 149 | 295 | Vertical |
| 3 | 3129.3600 | 49.56 | -112.31 | -62.75 | -13.00 | 49.75 | 238 | 257 | Vertical |
| 4 | 3911.7000 | 48.70 | -110.89 | -62.19 | -13.00 | 49.19 | 144 | 320 | Vertical |
| 5 | 4694.0400 | 49.74 | -109.06 | -59.32 | -13.00 | 46.32 | 234 | 356 | Vertical |
| 6 | 5476.3800 | 48.48 | -107.48 | -59.00 | -13.00 | 46.00 | 128 | 320 | Vertical |



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Frequency Stability

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | VL | NT | 1.10 | 0.001407 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | VN | NT | 0.50 | 0.000639 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | VH | NT | 2.00 | 0.002558 | PASS |

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | -30 | 0.60 | 0.000767 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | -20 | -0.40 | -0.000512 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | -10 | 1.40 | 0.001790 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 0 | 2.20 | 0.002813 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 10 | 0.90 | 0.001151 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 20 | -0.80 | -0.001023 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 30 | -0.40 | -0.000512 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 40 | -0.60 | -0.000767 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 50 | 0.00 | 0.000000 | PASS |

The End



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