



Appendix B

E-UTRA Band 7



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 7

| Test Band(LTE) | Test Mode | Test Bandwidth | Test channel | Test RB | Measured (dBm) | EIRP (dBm) | limit (dBm) | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
| BAND 7 | LTE/TM1 | 5M | LCH | 1RB#0 | 22.1 | 20.4 | 33.00 | PASS |
| | | | | 1RB#12 | 22.09 | 20.39 | 33.00 | PASS |
| | | | | 1RB#24 | 22.1 | 20.4 | 33.00 | PASS |
| | | | | 12RB#0 | 21.11 | 19.41 | 33.00 | PASS |
| | | | | 12RB#6 | 21.12 | 19.42 | 33.00 | PASS |
| | | | | 12RB#13 | 21.17 | 19.47 | 33.00 | PASS |
| | | | | 25RB#0 | 21.15 | 19.45 | 33.00 | PASS |
| | | | MCH | 1RB#0 | 22.21 | 20.51 | 33.00 | PASS |
| | | | | 1RB#12 | 22.2 | 20.5 | 33.00 | PASS |
| | | | | 1RB#24 | 22.21 | 20.51 | 33.00 | PASS |
| | | | | 12RB#0 | 21.2 | 19.5 | 33.00 | PASS |
| | | | | 12RB#6 | 21.2 | 19.5 | 33.00 | PASS |
| | | | | 12RB#13 | 21.29 | 19.59 | 33.00 | PASS |
| | | | | 25RB#0 | 21.25 | 19.55 | 33.00 | PASS |
| | | | HCH | 1RB#0 | 22.39 | 20.69 | 33.00 | PASS |
| | | | | 1RB#12 | 22.4 | 20.7 | 33.00 | PASS |
| | | | | 1RB#24 | 22.42 | 20.72 | 33.00 | PASS |
| | | | | 12RB#0 | 21.37 | 19.67 | 33.00 | PASS |
| | | | | 12RB#6 | 21.37 | 19.67 | 33.00 | PASS |
| | | | | 12RB#13 | 21.47 | 19.77 | 33.00 | PASS |
| | | | | 25RB#0 | 21.43 | 19.73 | 33.00 | PASS |

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| Test Band(LTE) | Test Mode | Test Bandwidth | Test channel | Test RB | Measured (dBm) | EIRP (dBm) | limit (dBm) | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
| BAND 7 | LTE/TM2 | 5M | LCH | 1RB#0 | 21.11 | 19.41 | 33.00 | PASS |
| | | | | 1RB#12 | 21.08 | 19.38 | 33.00 | PASS |
| | | | | 1RB#24 | 21.11 | 19.41 | 33.00 | PASS |
| | | | | 12RB#0 | 20.08 | 18.38 | 33.00 | PASS |
| | | | | 12RB#6 | 20.07 | 18.37 | 33.00 | PASS |
| | | | | 12RB#13 | 20.16 | 18.46 | 33.00 | PASS |
| | | | | 25RB#0 | 20.13 | 18.43 | 33.00 | PASS |
| | | | MCH | 1RB#0 | 21.43 | 19.73 | 33.00 | PASS |
| | | | | 1RB#12 | 21.41 | 19.71 | 33.00 | PASS |
| | | | | 1RB#24 | 21.42 | 19.72 | 33.00 | PASS |
| | | | | 12RB#0 | 20.22 | 18.52 | 33.00 | PASS |
| | | | | 12RB#6 | 20.22 | 18.52 | 33.00 | PASS |
| | | | | 12RB#13 | 20.31 | 18.61 | 33.00 | PASS |
| | | | | 25RB#0 | 20.23 | 18.53 | 33.00 | PASS |
| | | | HCH | 1RB#0 | 21.39 | 19.69 | 33.00 | PASS |
| | | | | 1RB#12 | 21.4 | 19.7 | 33.00 | PASS |
| | | | | 1RB#24 | 21.44 | 19.74 | 33.00 | PASS |
| | | | | 12RB#0 | 20.36 | 18.66 | 33.00 | PASS |
| | | | | 12RB#6 | 20.36 | 18.66 | 33.00 | PASS |
| | | | | 12RB#13 | 20.47 | 18.77 | 33.00 | PASS |
| | | | | 25RB#0 | 20.46 | 18.76 | 33.00 | PASS |

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|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
| BAND 7 | LTE/TM1 | 10M | LCH | 1RB#0 | 22.08 | 20.38 | 33.00 | PASS |
| | | | | 1RB#24 | 22.08 | 20.38 | 33.00 | PASS |
| | | | | 1RB#49 | 22.2 | 20.5 | 33.00 | PASS |
| | | | | 25RB#0 | 21.06 | 19.36 | 33.00 | PASS |
| | | | | 25RB#12 | 21.04 | 19.34 | 33.00 | PASS |
| | | | | 25RB#25 | 21.18 | 19.48 | 33.00 | PASS |
| | | | | 50RB#0 | 21.14 | 19.44 | 33.00 | PASS |
| | | | MCH | 1RB#0 | 22.24 | 20.54 | 33.00 | PASS |
| | | | | 1RB#24 | 22.25 | 20.55 | 33.00 | PASS |
| | | | | 1RB#49 | 22.33 | 20.63 | 33.00 | PASS |
| | | | | 25RB#0 | 21.18 | 19.48 | 33.00 | PASS |
| | | | | 25RB#12 | 21.18 | 19.48 | 33.00 | PASS |
| | | | | 25RB#25 | 21.33 | 19.63 | 33.00 | PASS |
| | | | | 50RB#0 | 21.24 | 19.54 | 33.00 | PASS |
| | | | HCH | 1RB#0 | 22.39 | 20.69 | 33.00 | PASS |
| | | | | 1RB#24 | 22.45 | 20.75 | 33.00 | PASS |
| | | | | 1RB#49 | 22.55 | 20.85 | 33.00 | PASS |
| | | | | 25RB#0 | 21.39 | 19.69 | 33.00 | PASS |
| | | | | 25RB#12 | 21.39 | 19.69 | 33.00 | PASS |
| | | | | 25RB#25 | 21.55 | 19.85 | 33.00 | PASS |
| | | | | 50RB#0 | 21.47 | 19.77 | 33.00 | PASS |

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| Test Band(LTE) | Test Mode | Test Bandwidth | Test channel | Test RB | Measured (dBm) | EIRP (dBm) | limit (dBm) | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
| BAND 7 | LTE/TM2 | 10M | LCH | 1RB#0 | 21.3 | 19.6 | 33.00 | PASS |
| | | | | 1RB#24 | 21.29 | 19.59 | 33.00 | PASS |
| | | | | 1RB#49 | 21.38 | 19.68 | 33.00 | PASS |
| | | | | 25RB#0 | 20.03 | 18.33 | 33.00 | PASS |
| | | | | 25RB#12 | 20.03 | 18.33 | 33.00 | PASS |
| | | | | 25RB#25 | 20.15 | 18.45 | 33.00 | PASS |
| | | | | 50RB#0 | 20.1 | 18.4 | 33.00 | PASS |
| | | | MCH | 1RB#0 | 21.46 | 19.76 | 33.00 | PASS |
| | | | | 1RB#24 | 21.45 | 19.75 | 33.00 | PASS |
| | | | | 1RB#49 | 21.51 | 19.81 | 33.00 | PASS |
| | | | | 25RB#0 | 20.2 | 18.5 | 33.00 | PASS |
| | | | | 25RB#12 | 20.2 | 18.5 | 33.00 | PASS |
| | | | | 25RB#25 | 20.34 | 18.64 | 33.00 | PASS |
| | | | | 50RB#0 | 20.27 | 18.57 | 33.00 | PASS |
| | | | HCH | 1RB#0 | 21.32 | 19.62 | 33.00 | PASS |
| | | | | 1RB#24 | 21.38 | 19.68 | 33.00 | PASS |
| | | | | 1RB#49 | 21.48 | 19.78 | 33.00 | PASS |
| | | | | 25RB#0 | 20.42 | 18.72 | 33.00 | PASS |
| | | | | 25RB#12 | 20.41 | 18.71 | 33.00 | PASS |
| | | | | 25RB#25 | 20.56 | 18.86 | 33.00 | PASS |
| | | | | 50RB#0 | 20.46 | 18.76 | 33.00 | PASS |

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| Test Band(LTE) | Test Mode | Test Bandwidth | Test channel | Test RB | Measured (dBm) | EIRP (dBm) | limit (dBm) | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
| BAND 7 | LTE/TM1 | 15M | LCH | 1RB#0 | 22.32 | 20.62 | 33.00 | PASS |
| | | | | 1RB#38 | 22.16 | 20.46 | 33.00 | PASS |
| | | | | 1RB#74 | 22.29 | 20.59 | 33.00 | PASS |
| | | | | 36RB#0 | 21.54 | 19.84 | 33.00 | PASS |
| | | | | 36RB#18 | 21.4 | 19.7 | 33.00 | PASS |
| | | | | 36RB#39 | 21.5 | 19.8 | 33.00 | PASS |
| | | | | 75RB#0 | 21.23 | 19.53 | 33.00 | PASS |
| | | | MCH | 1RB#0 | 22.41 | 20.71 | 33.00 | PASS |
| | | | | 1RB#38 | 22.28 | 20.58 | 33.00 | PASS |
| | | | | 1RB#74 | 22.41 | 20.71 | 33.00 | PASS |
| | | | | 36RB#0 | 21.31 | 19.61 | 33.00 | PASS |
| | | | | 36RB#18 | 21.19 | 19.49 | 33.00 | PASS |
| | | | | 36RB#39 | 21.29 | 19.59 | 33.00 | PASS |
| | | | | 75RB#0 | 21.36 | 19.66 | 33.00 | PASS |
| | | | HCH | 1RB#0 | 22.42 | 20.72 | 33.00 | PASS |
| | | | | 1RB#38 | 22.36 | 20.66 | 33.00 | PASS |
| | | | | 1RB#74 | 22.49 | 20.79 | 33.00 | PASS |
| | | | | 36RB#0 | 21.61 | 19.91 | 33.00 | PASS |
| | | | | 36RB#18 | 21.55 | 19.85 | 33.00 | PASS |
| | | | | 36RB#39 | 21.69 | 19.99 | 33.00 | PASS |
| | | | | 75RB#0 | 21.53 | 19.83 | 33.00 | PASS |

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| Test Band(LTE) | Test Mode | Test Bandwidth | Test channel | Test RB | Measured (dBm) | EIRP (dBm) | limit (dBm) | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
| BAND 7 | LTE/TM2 | 15M | LCH | 1RB#0 | 21.54 | 19.84 | 33.00 | PASS |
| | | | | 1RB#38 | 21.41 | 19.71 | 33.00 | PASS |
| | | | | 1RB#74 | 21.52 | 19.82 | 33.00 | PASS |
| | | | | 36RB#0 | 21.53 | 19.83 | 33.00 | PASS |
| | | | | 36RB#18 | 21.39 | 19.69 | 33.00 | PASS |
| | | | | 36RB#39 | 21.5 | 19.8 | 33.00 | PASS |
| | | | | 75RB#0 | 20.18 | 18.48 | 33.00 | PASS |
| | | | MCH | 1RB#0 | 21.32 | 19.62 | 33.00 | PASS |
| | | | | 1RB#38 | 21.2 | 19.5 | 33.00 | PASS |
| | | | | 1RB#74 | 21.3 | 19.6 | 33.00 | PASS |
| | | | | 36RB#0 | 21.32 | 19.62 | 33.00 | PASS |
| | | | | 36RB#18 | 21.19 | 19.49 | 33.00 | PASS |
| | | | | 36RB#39 | 21.3 | 19.6 | 33.00 | PASS |
| | | | | 75RB#0 | 20.31 | 18.61 | 33.00 | PASS |
| | | | HCH | 1RB#0 | 21.6 | 19.9 | 33.00 | PASS |
| | | | | 1RB#38 | 21.56 | 19.86 | 33.00 | PASS |
| | | | | 1RB#74 | 21.68 | 19.98 | 33.00 | PASS |
| | | | | 36RB#0 | 21.61 | 19.91 | 33.00 | PASS |
| | | | | 36RB#18 | 21.56 | 19.86 | 33.00 | PASS |
| | | | | 36RB#39 | 21.69 | 19.99 | 33.00 | PASS |
| | | | | 75RB#0 | 20.44 | 18.74 | 33.00 | PASS |

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| Test Band(LTE) | Test Mode | Test Bandwidth | Test channel | Test RB | Measured (dBm) | EIRP (dBm) | limit (dBm) | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
| BAND 7 | LTE/TM1 | 20M | LCH | 1RB#0 | 22.49 | 20.79 | 33.00 | PASS |
| | | | | 1RB#49 | 22.25 | 20.55 | 33.00 | PASS |
| | | | | 1RB#99 | 22.49 | 20.79 | 33.00 | PASS |
| | | | | 50RB#0 | 21.14 | 19.44 | 33.00 | PASS |
| | | | | 50RB#25 | 21.13 | 19.43 | 33.00 | PASS |
| | | | | 50RB#50 | 21.09 | 19.39 | 33.00 | PASS |
| | | | | 100RB#0 | 21.12 | 19.42 | 33.00 | PASS |
| | | | MCH | 1RB#0 | 22.37 | 20.67 | 33.00 | PASS |
| | | | | 1RB#49 | 22.18 | 20.48 | 33.00 | PASS |
| | | | | 1RB#99 | 22.44 | 20.74 | 33.00 | PASS |
| | | | | 50RB#0 | 21.23 | 19.53 | 33.00 | PASS |
| | | | | 50RB#25 | 21.24 | 19.54 | 33.00 | PASS |
| | | | | 50RB#50 | 21.45 | 19.75 | 33.00 | PASS |
| | | | | 100RB#0 | 21.37 | 19.67 | 33.00 | PASS |
| | | | HCH | 1RB#0 | 22.6 | 20.9 | 33.00 | PASS |
| | | | | 1RB#49 | 22.44 | 20.74 | 33.00 | PASS |
| | | | | 1RB#99 | 22.74 | 21.04 | 33.00 | PASS |
| | | | | 50RB#0 | 21.6 | 19.9 | 33.00 | PASS |
| | | | | 50RB#25 | 21.6 | 19.9 | 33.00 | PASS |
| | | | | 50RB#50 | 21.55 | 19.85 | 33.00 | PASS |
| | | | | 100RB#0 | 21.58 | 19.88 | 33.00 | PASS |

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| Test Band(LTE) | Test Mode | Test Bandwidth | Test channel | Test RB | Measured (dBm) | EIRP (dBm) | limit (dBm) | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
| BAND 7 | LTE/TM2 | 20M | LCH | 1RB#0 | 21.54 | 19.84 | 33.00 | PASS |
| | | | | 1RB#49 | 21.36 | 19.66 | 33.00 | PASS |
| | | | | 1RB#99 | 21.57 | 19.87 | 33.00 | PASS |
| | | | | 50RB#0 | 20.14 | 18.44 | 33.00 | PASS |
| | | | | 50RB#25 | 20.14 | 18.44 | 33.00 | PASS |
| | | | | 50RB#50 | 20.11 | 18.41 | 33.00 | PASS |
| | | | | 100RB#0 | 20.1 | 18.4 | 33.00 | PASS |
| | | | MCH | 1RB#0 | 21.47 | 19.77 | 33.00 | PASS |
| | | | | 1RB#49 | 21.31 | 19.61 | 33.00 | PASS |
| | | | | 1RB#99 | 21.51 | 19.81 | 33.00 | PASS |
| | | | | 50RB#0 | 20.29 | 18.59 | 33.00 | PASS |
| | | | | 50RB#25 | 20.28 | 18.58 | 33.00 | PASS |
| | | | | 50RB#50 | 20.49 | 18.79 | 33.00 | PASS |
| | | | | 100RB#0 | 20.35 | 18.65 | 33.00 | PASS |
| | | | HCH | 1RB#0 | 21.59 | 19.89 | 33.00 | PASS |
| | | | | 1RB#49 | 21.47 | 19.77 | 33.00 | PASS |
| | | | | 1RB#99 | 21.7 | 20 | 33.00 | PASS |
| | | | | 50RB#0 | 20.59 | 18.89 | 33.00 | PASS |
| | | | | 50RB#25 | 20.58 | 18.88 | 33.00 | PASS |
| | | | | 50RB#50 | 20.52 | 18.82 | 33.00 | PASS |
| | | | | 100RB#0 | 20.56 | 18.86 | 33.00 | PASS |

Note:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level

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2 Peak-to-Average Ratio

Part I - Test Results

| Test Band | Test Mode | Test Channel | Measured[dB] | Limit [dB] | Verdict |
|-----------|-----------|--------------|--------------|------------|---------|
| BAND 7 | TM1/20M | LCH | 3.86 | 13 | PASS |
| | | MCH | 4.14 | 13 | PASS |
| | | HCH | 5.77 | 13 | PASS |
| | TM2/20M | LCH | 5.62 | 13 | PASS |
| | | MCH | 5.80 | 13 | PASS |
| | | HCH | 5.77 | 13 | PASS |

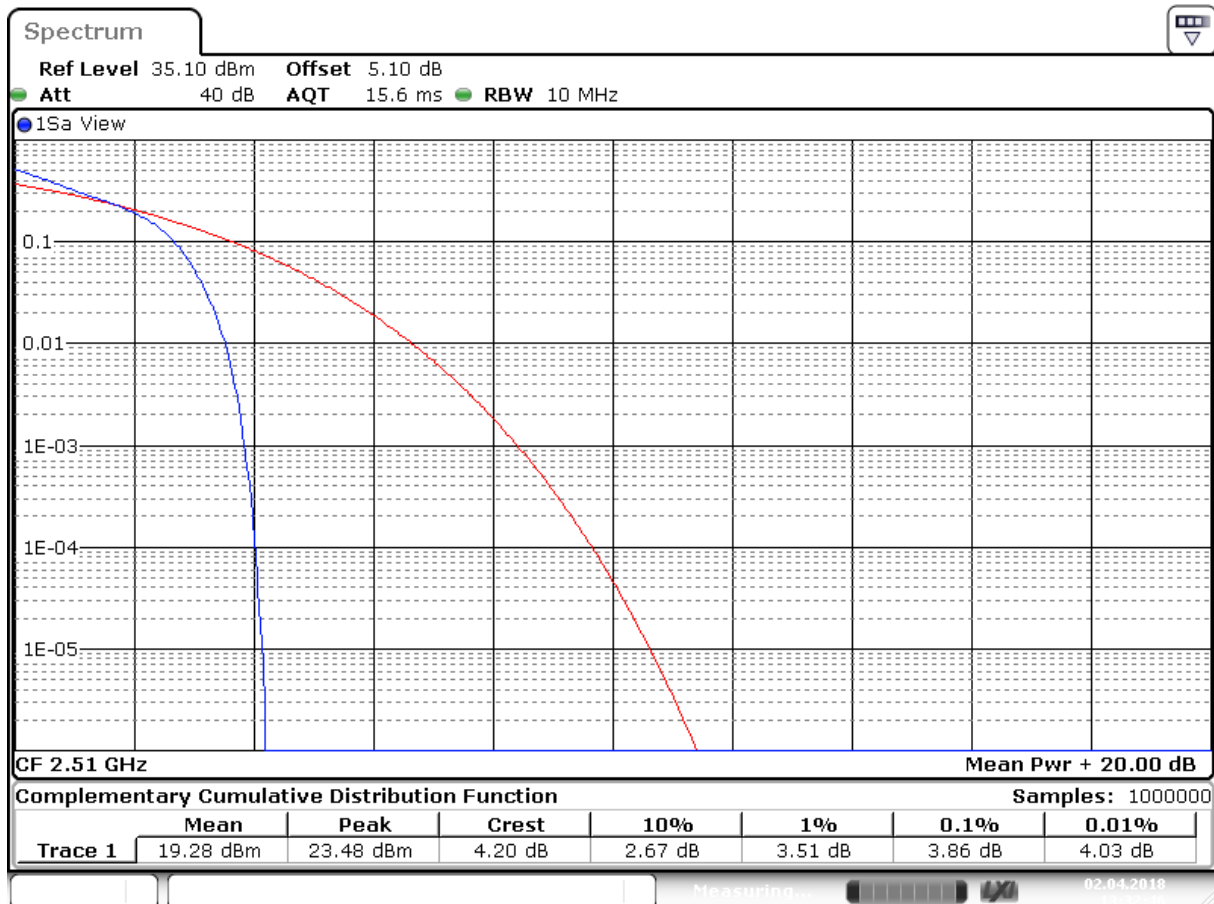
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE BAND 7

2.1.1.1 Test Mode = LTE/TM1.Bandwidth=20MHz

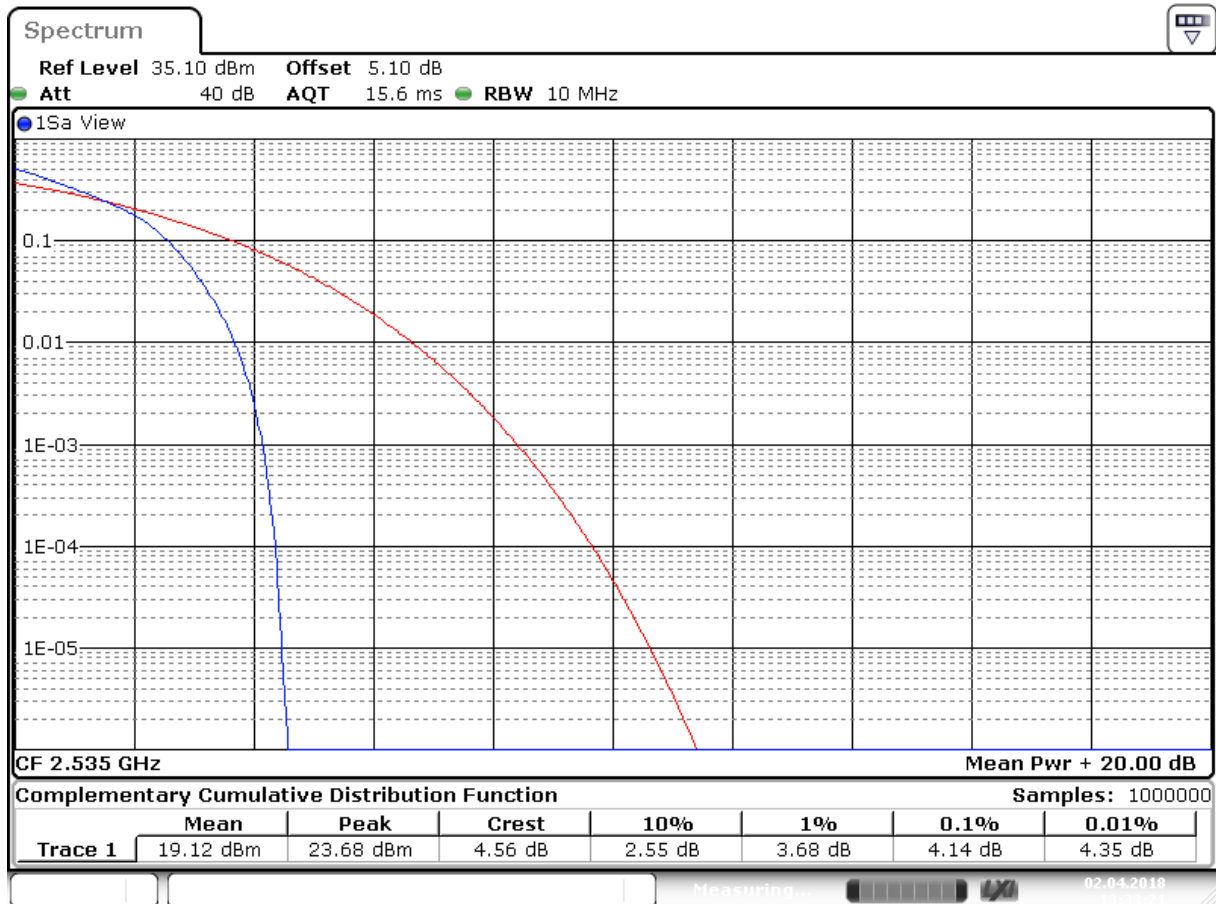
2.1.1.1.1 Test Channel = LCH



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2.1.1.1.2 Test Channel = MCH

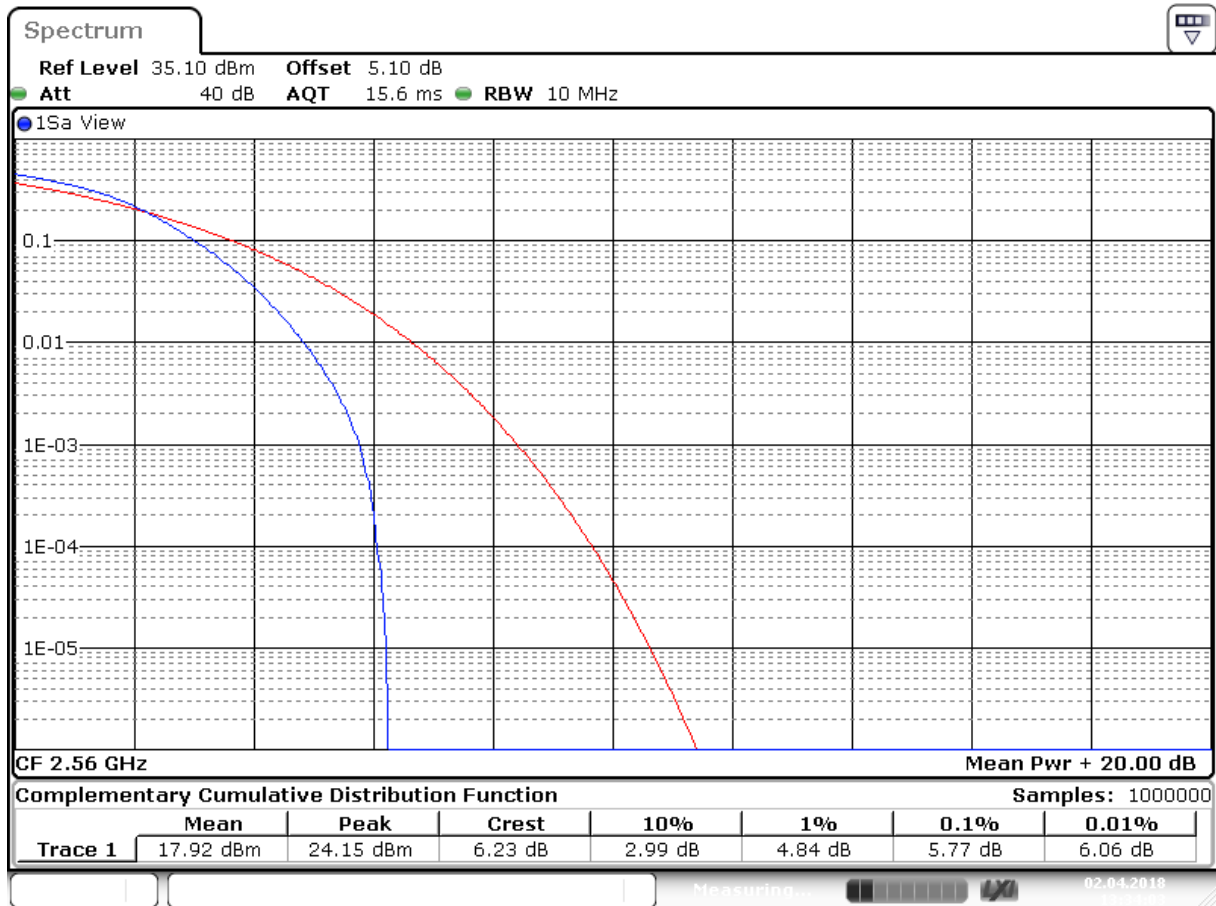


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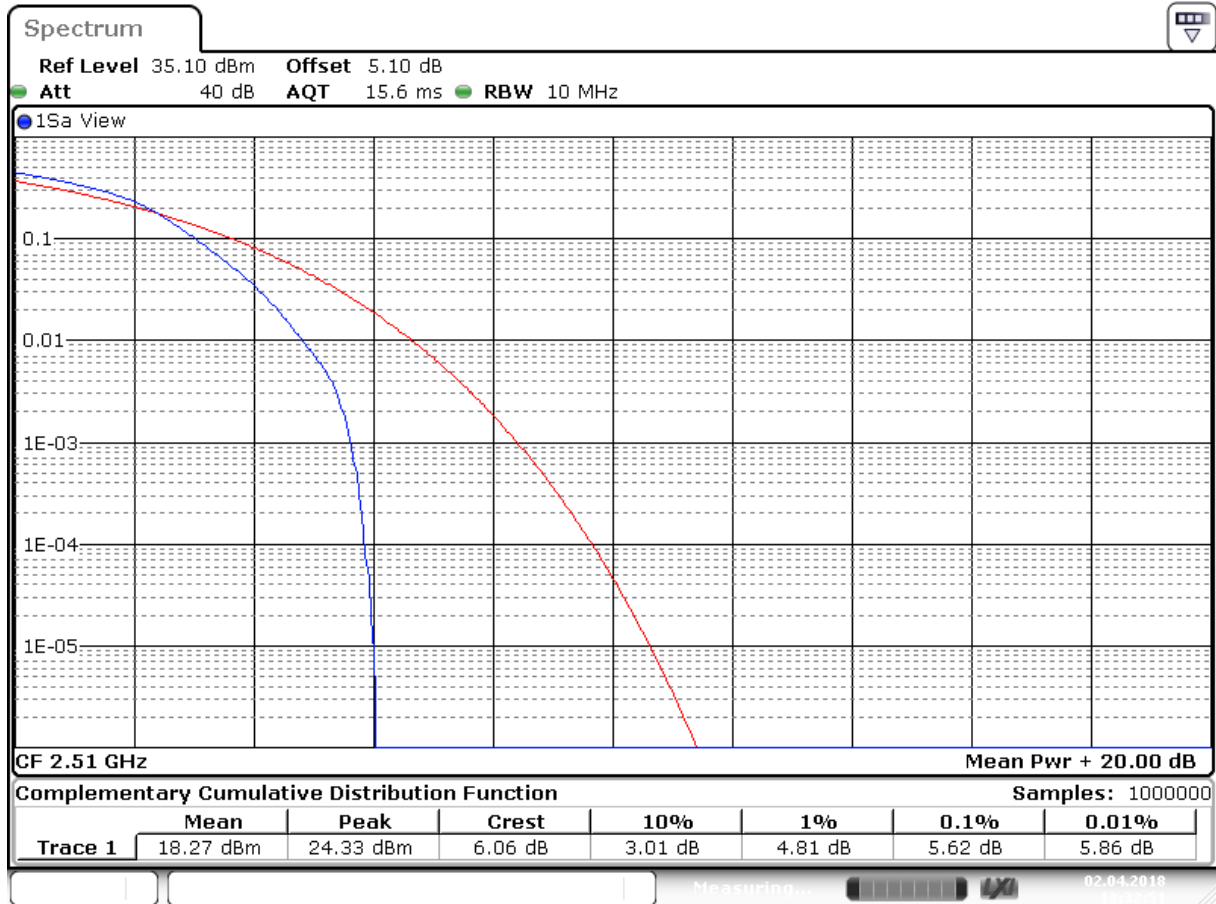
2.1.1.1.3 Test Channel = HCH



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2.1.1.2 Test Mode = LTE/TM2.Bandwidth=20MHz
2.1.1.2.1 Test Channel = LCH

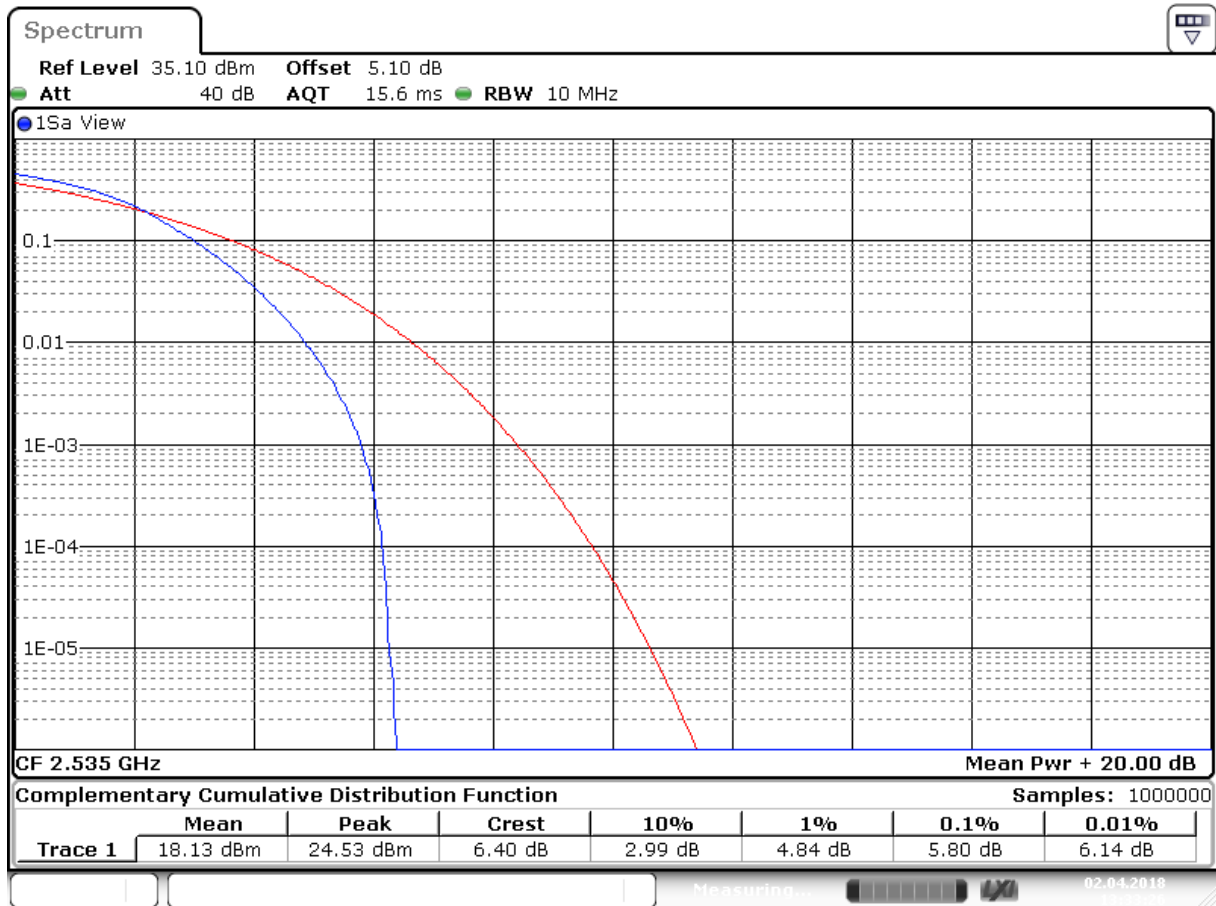


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2.1.1.2.2 Test Channel = MCH

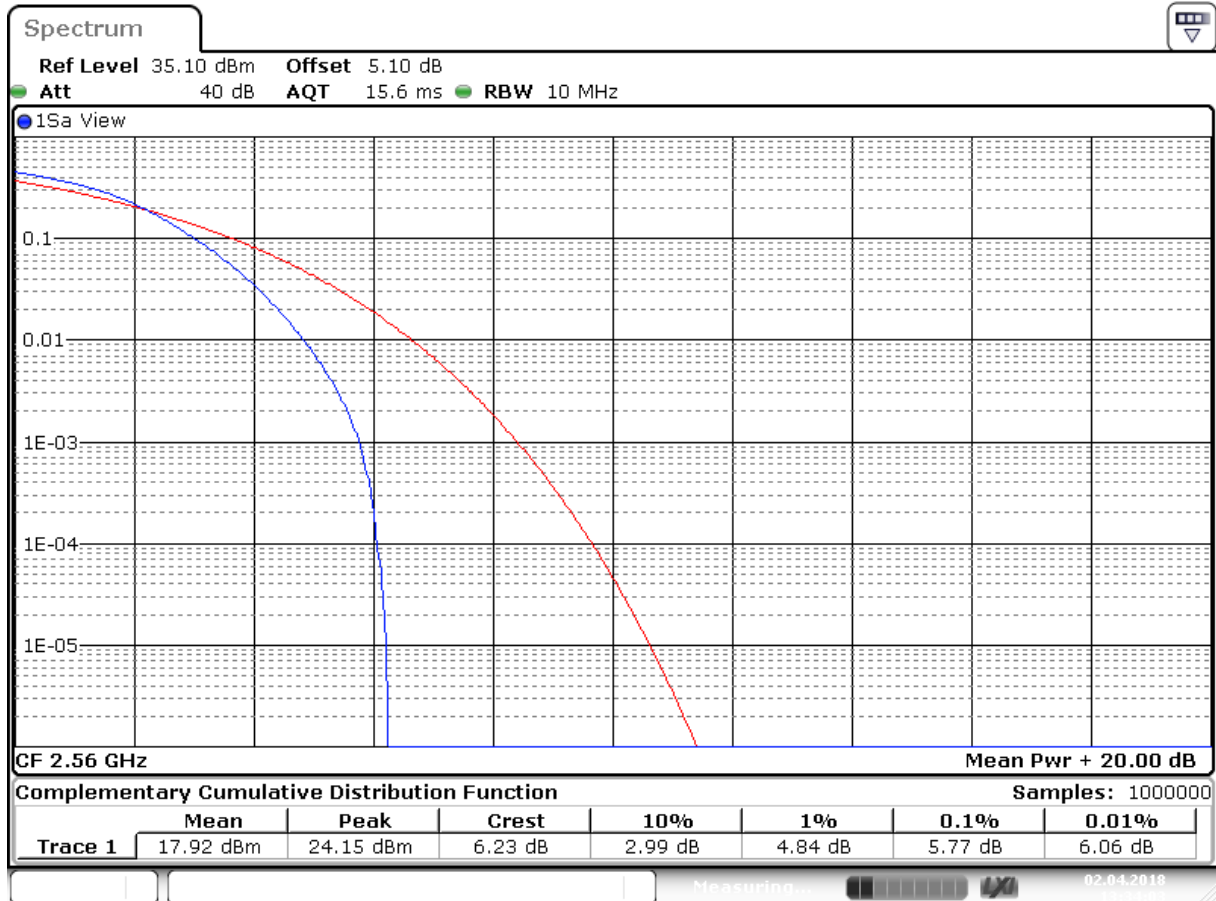


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2.1.1.2.3 Test Channel = HCH



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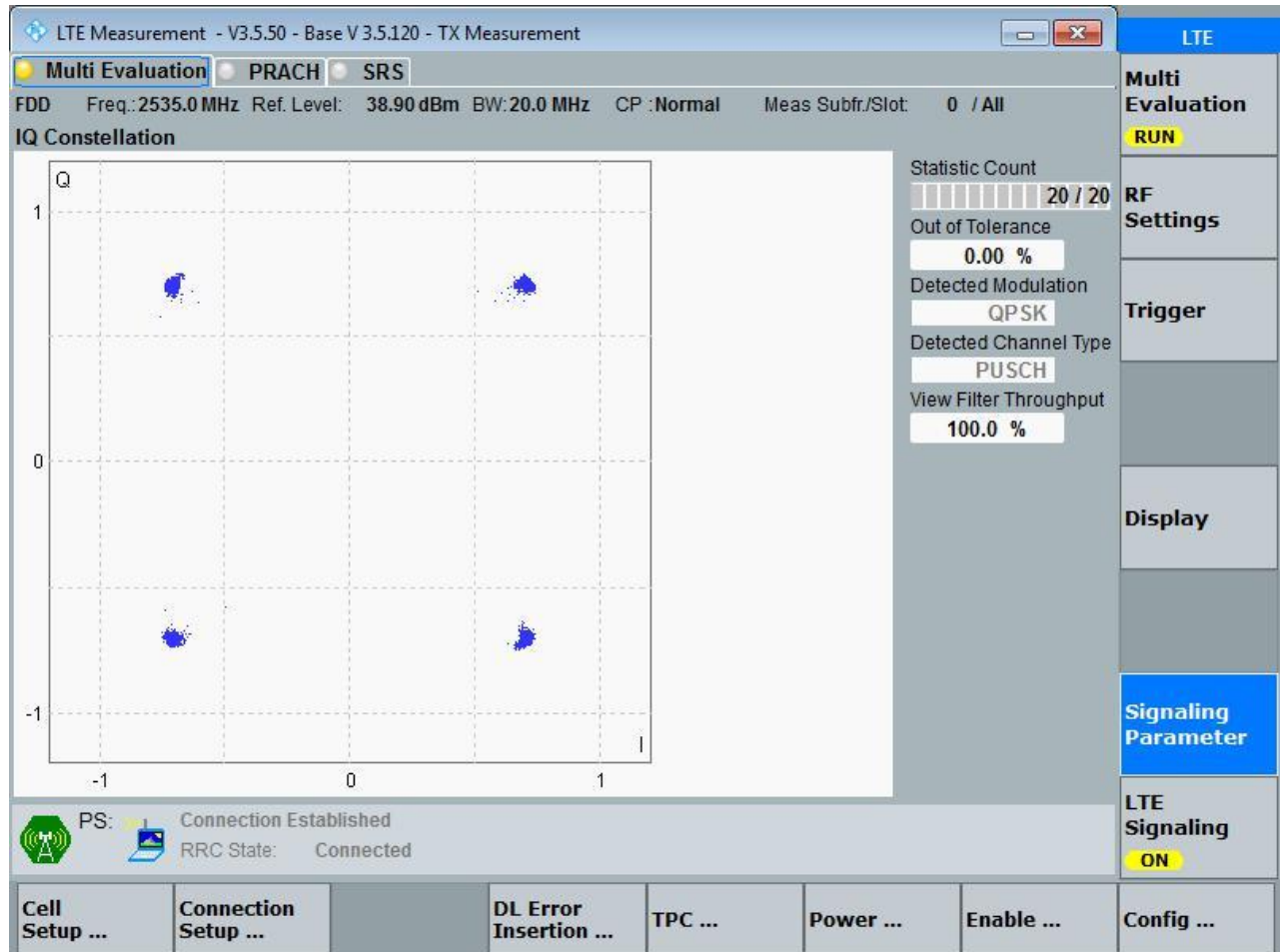
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE BAND 7

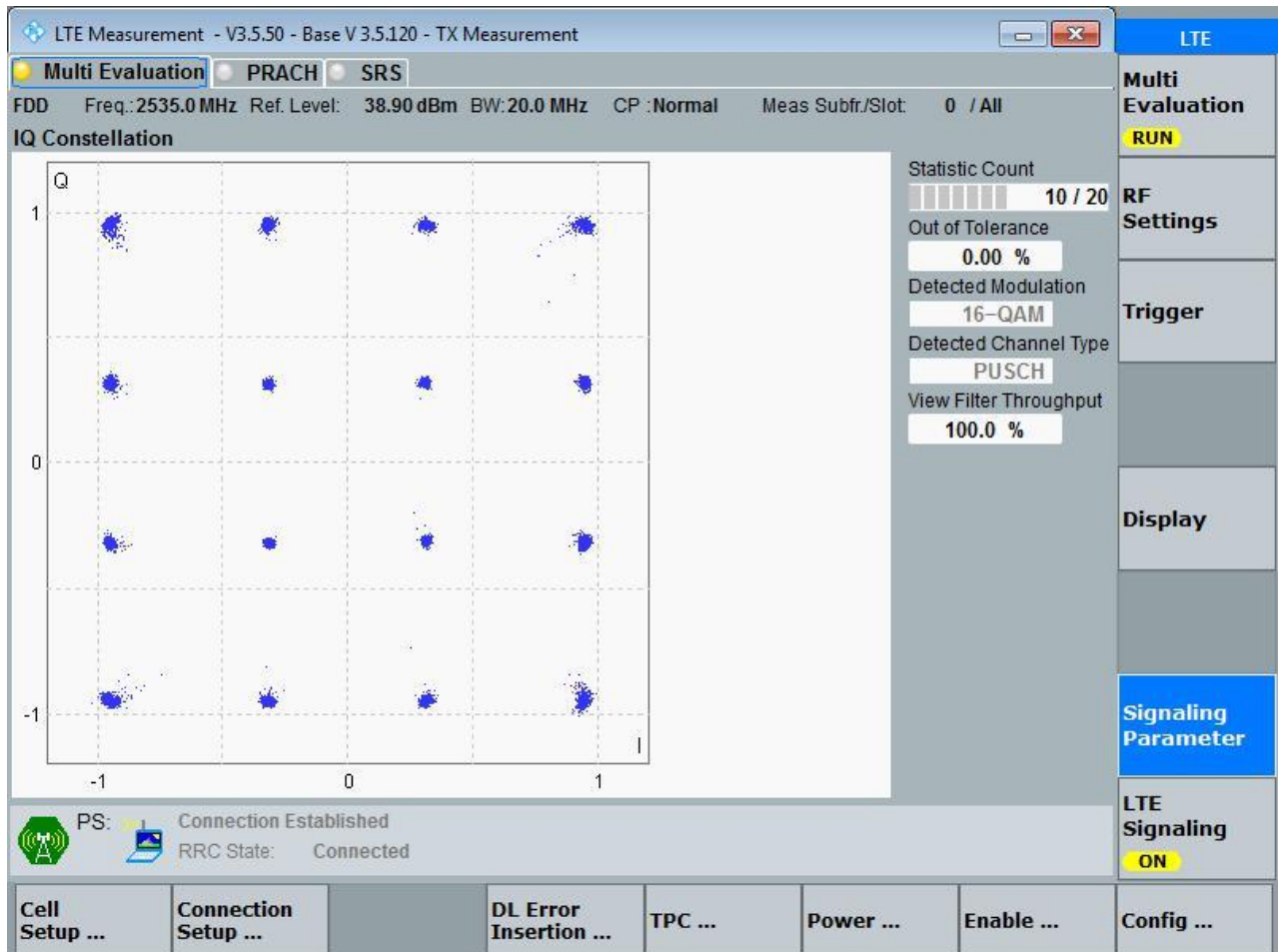
3.1.1.1 Test Mode = LTE /TM1 20MHz

3.1.1.1.1 Test Channel = MCH



3.1.1.2 Test Mode = LTE /TM2 20MHz

3.1.1.2.1 Test Channel = MCH



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4 Bandwidth

Part I - Test Results

| Test Band | Test Mode | Test Channel | Occupied Bandwidth [MHz] | Emission Bandwidth [MHz] | Verdict |
|------------|------------|--------------|--------------------------|--------------------------|---------|
| BAND 7 | TM1/5MHz | LCH | 4.476 | 4.800 | PASS |
| | | MCH | 4.466 | 4.740 | PASS |
| | | HCH | 4.476 | 4.810 | PASS |
| | TM2/ 5MHz | LCH | 4.476 | 4.760 | PASS |
| | | MCH | 4.466 | 4.820 | PASS |
| | | HCH | 4.486 | 4.710 | PASS |
| | TM1/10MHz | LCH | 8.951 | 9.320 | PASS |
| | | MCH | 8.931 | 9.300 | PASS |
| | | HCH | 8.951 | 9.320 | PASS |
| | TM2/ 10MHz | LCH | 8.931 | 9.300 | PASS |
| | | MCH | 8.931 | 9.300 | PASS |
| | | HCH | 8.951 | 9.320 | PASS |
| | TM1/ 15MHz | LCH | 13.457 | 14.310 | PASS |
| | | MCH | 13.487 | 14.280 | PASS |
| | | HCH | 13.516 | 14.280 | PASS |
| | TM2/ 15MHz | LCH | 13.487 | 14.280 | PASS |
| | | MCH | 13.457 | 14.280 | PASS |
| | | HCH | 13.516 | 14.280 | PASS |
| | TM1/ 20MHz | LCH | 17.862 | 18.800 | PASS |
| | | MCH | 17.942 | 18.840 | PASS |
| | | HCH | 17.942 | 18.800 | PASS |
| TM2/ 20MHz | LCH | 17.902 | 18.760 | PASS | |
| | MCH | 17.942 | 18.800 | PASS | |
| | HCH | 17.942 | 18.800 | PASS | |

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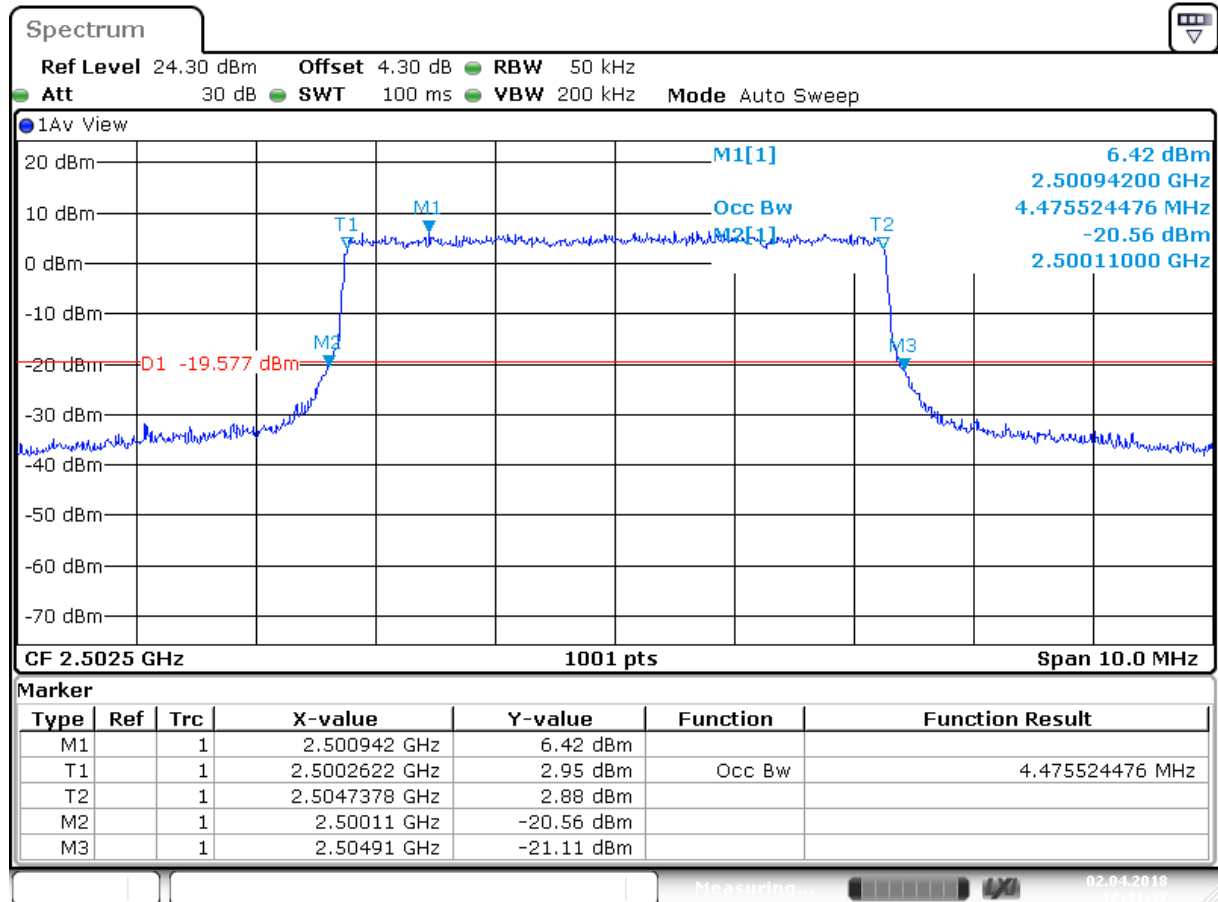


4.1 For LTE

4.1.1 Test Band = LTE BAND 7

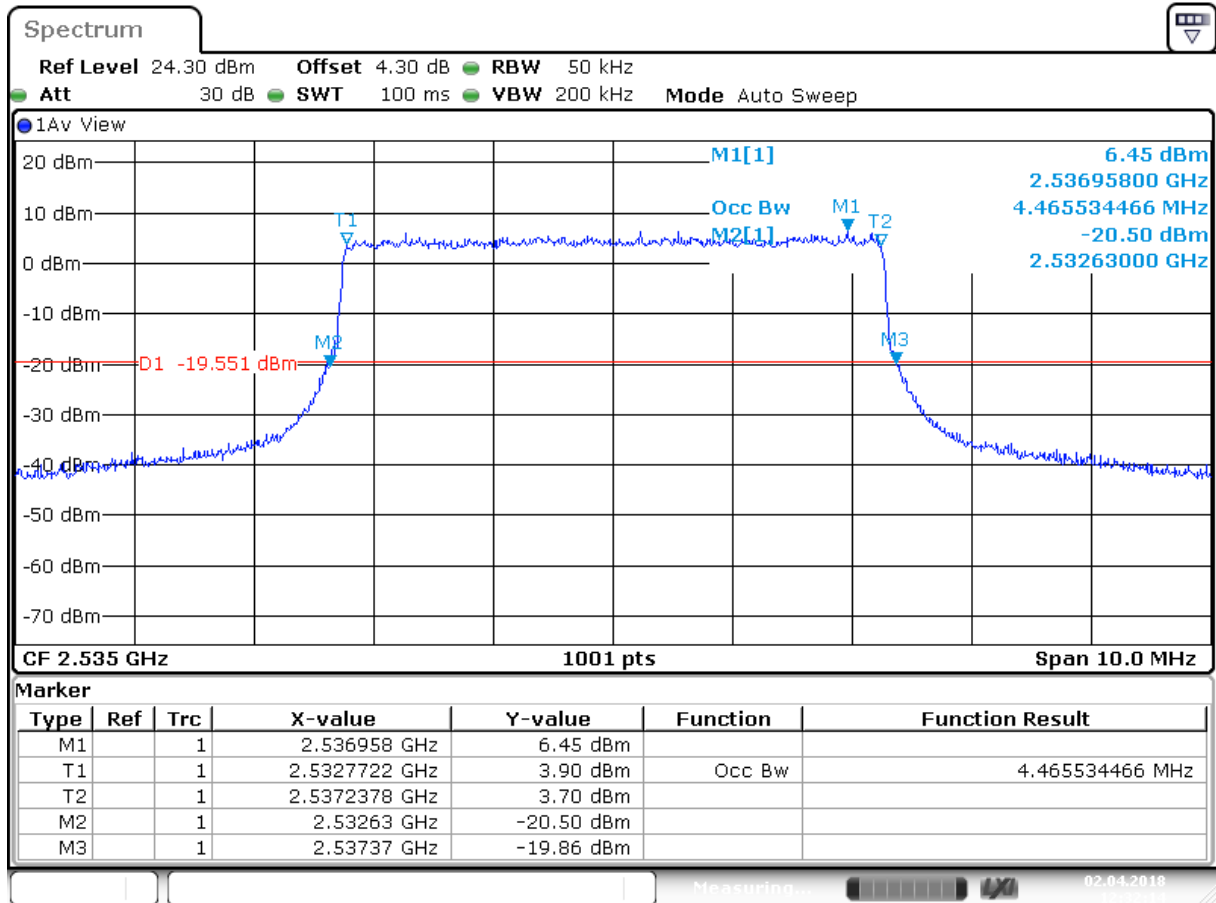
4.1.1.1 Test Mode = LTE/TM1 5MHz

4.1.1.1.1 Test Channel = LCH



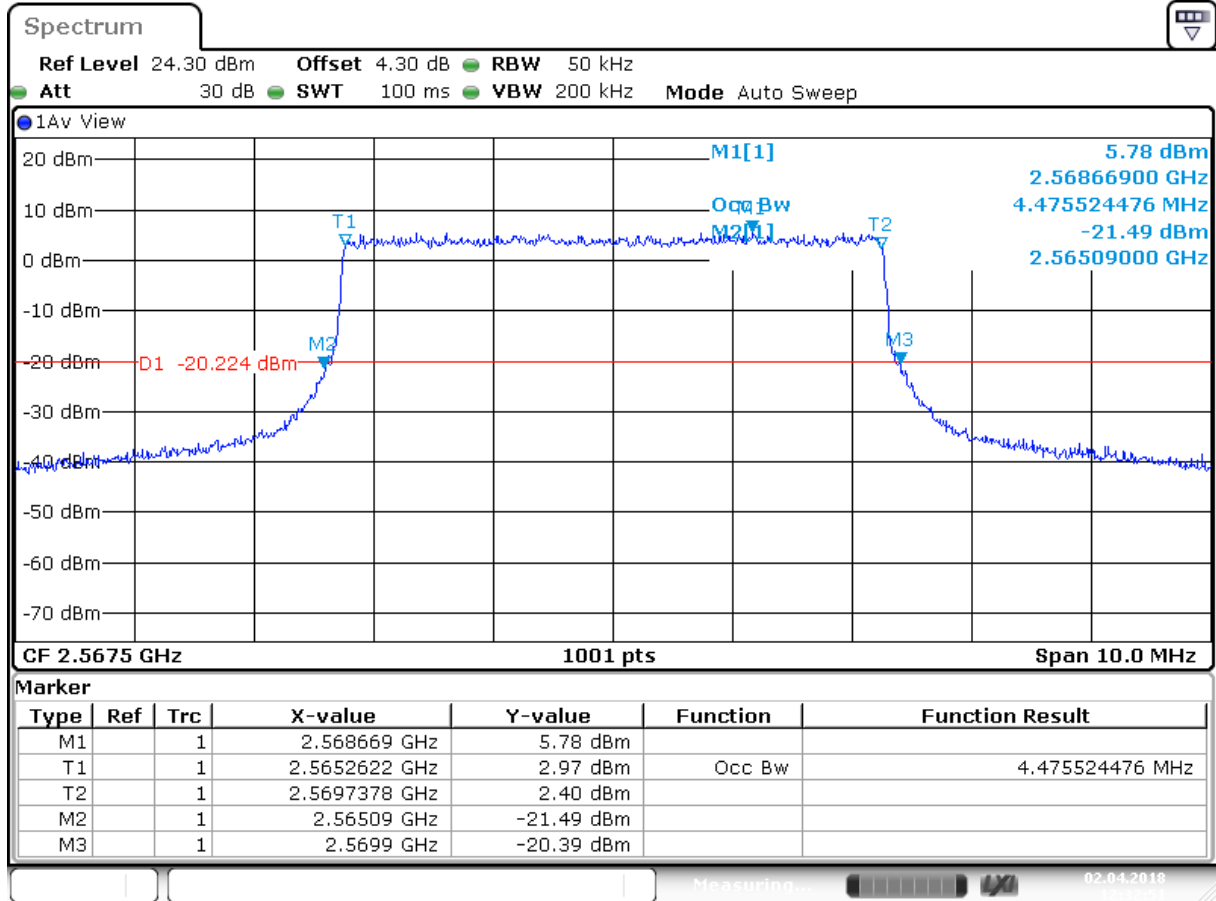
Date: 2 APR 2018 12:31:37

4.1.1.1.2 Test Channel = MCH



Date: 2 APR 2018 12:32:14

4.1.1.1.3 Test Channel = HCH

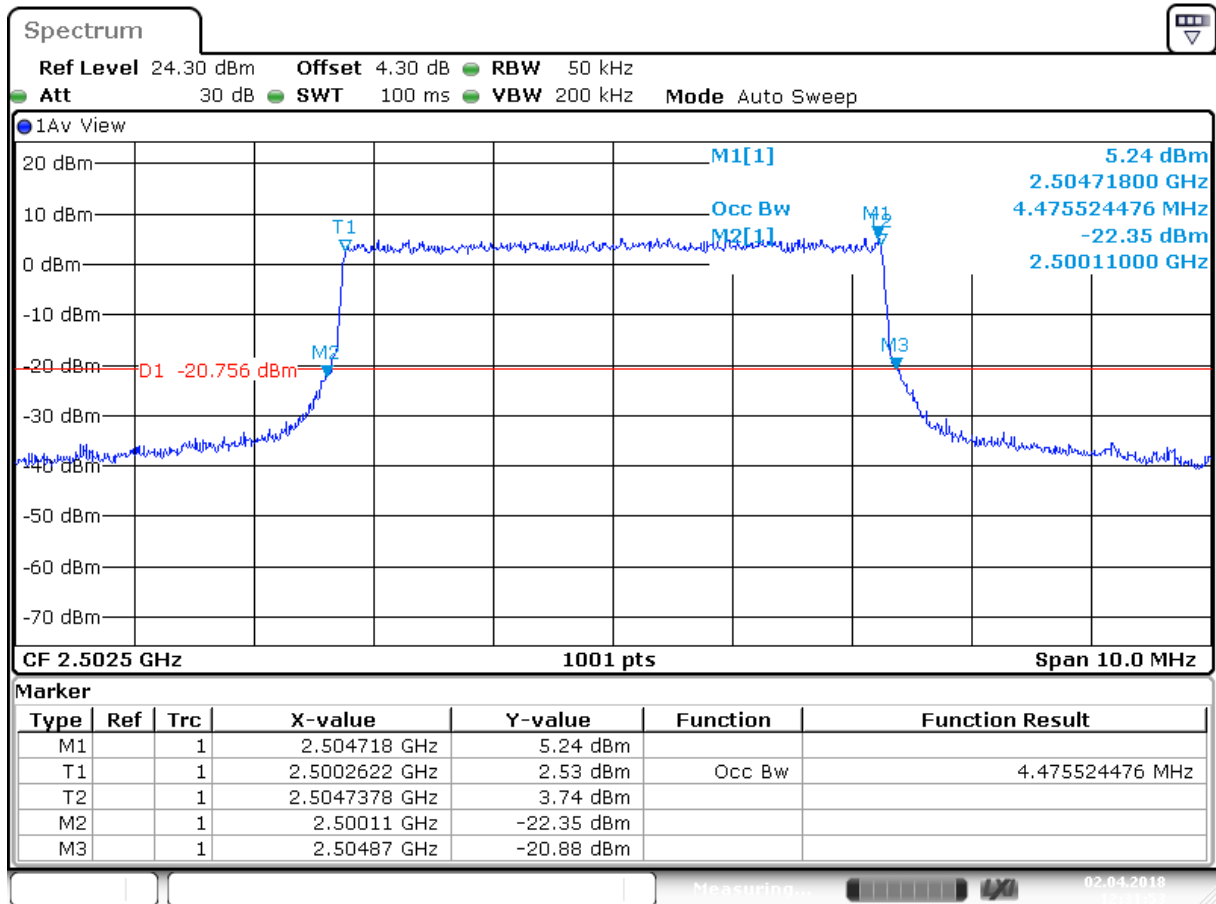


Date: 2 APR 2018 12:32:51



4.1.1.2 Test Mode = LTE/TM2 5MHz

4.1.1.2.1 Test Channel = LCH

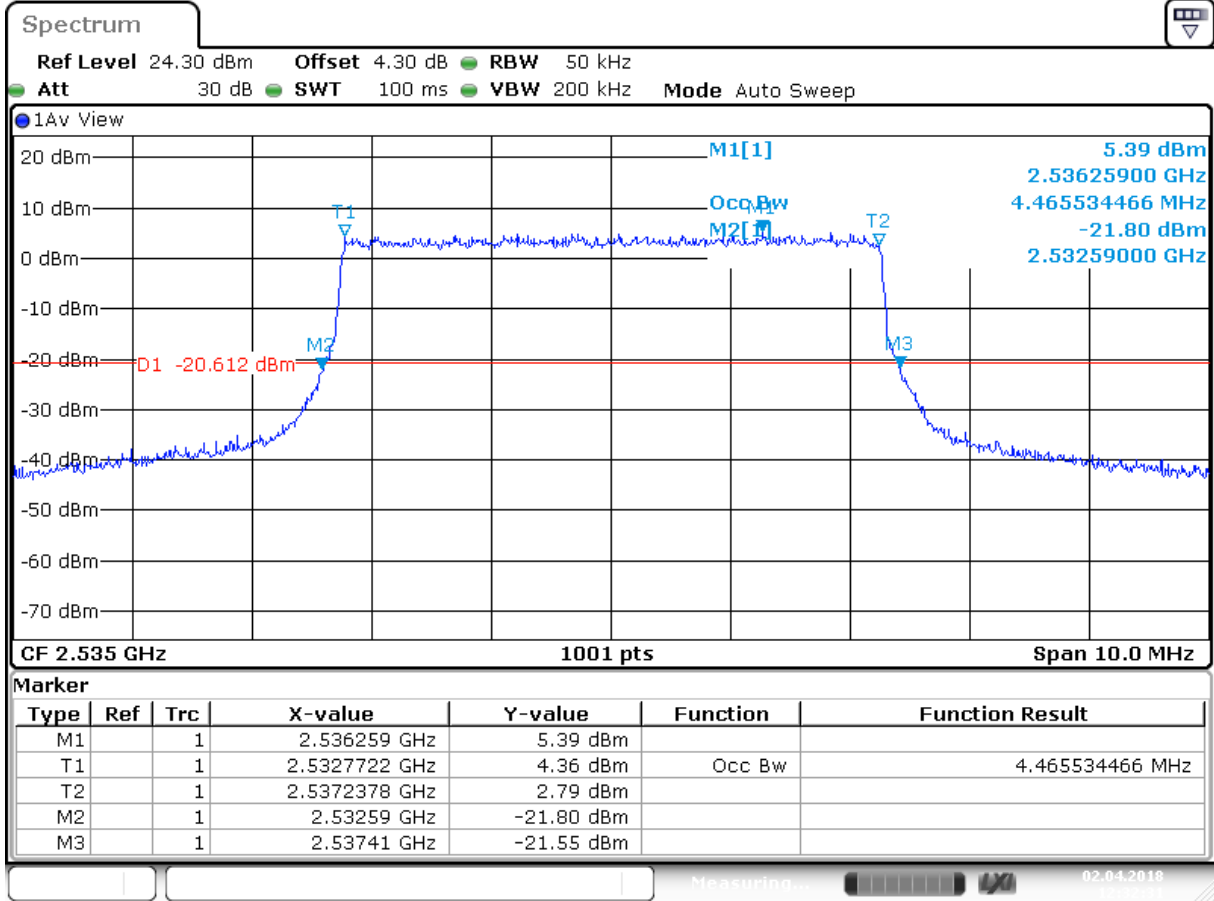


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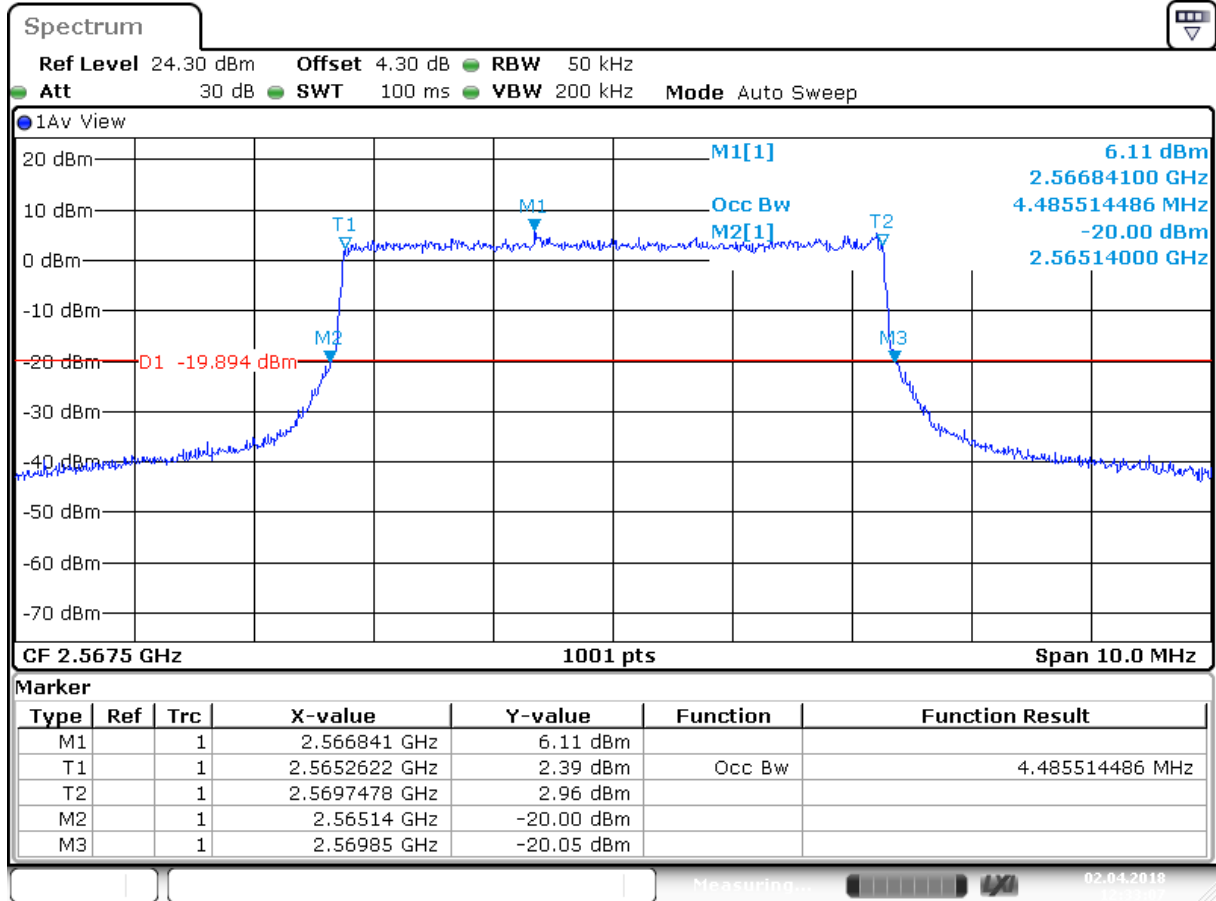
4.1.1.2.2 Test Channel = MCH



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4.1.1.2.3 Test Channel = HCH

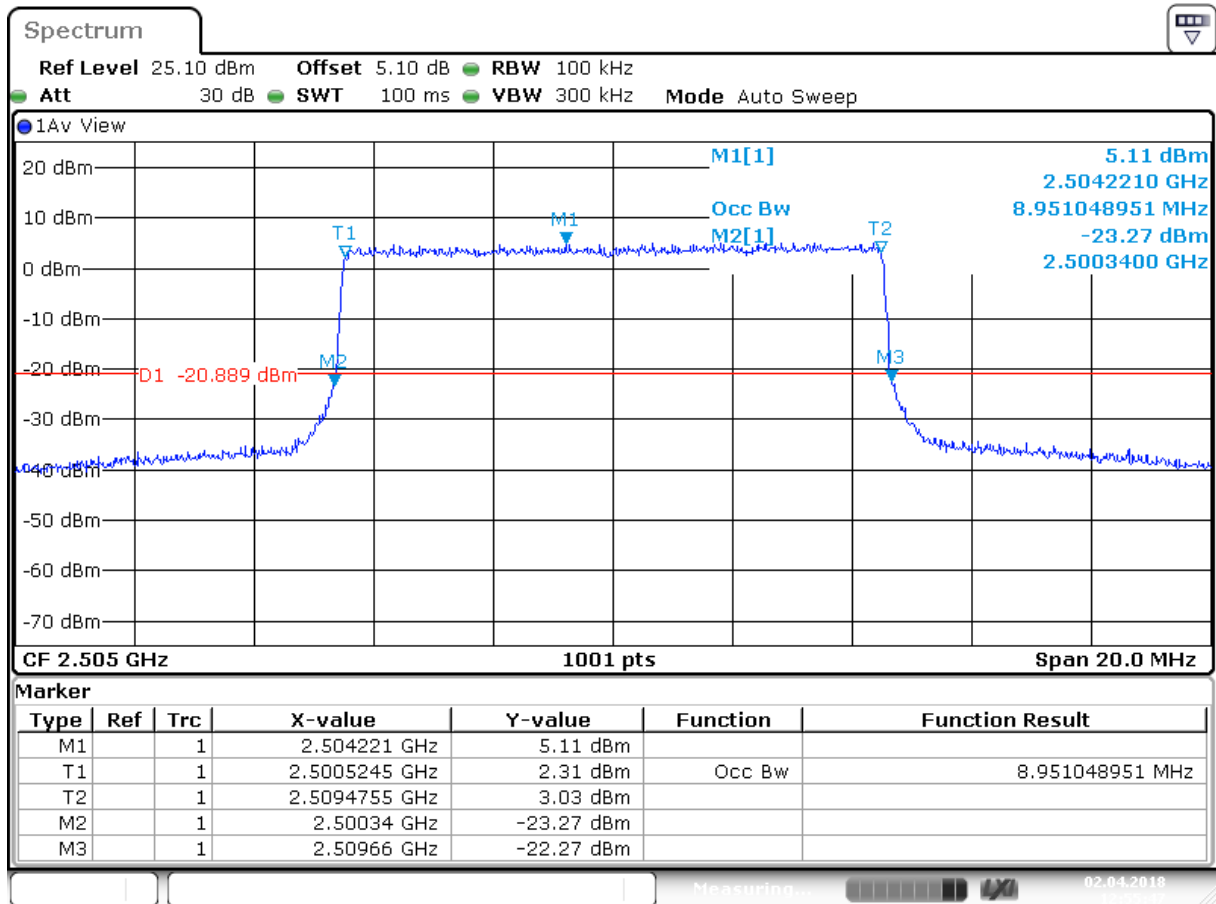


Date: 2 APR 2018 12:33:08



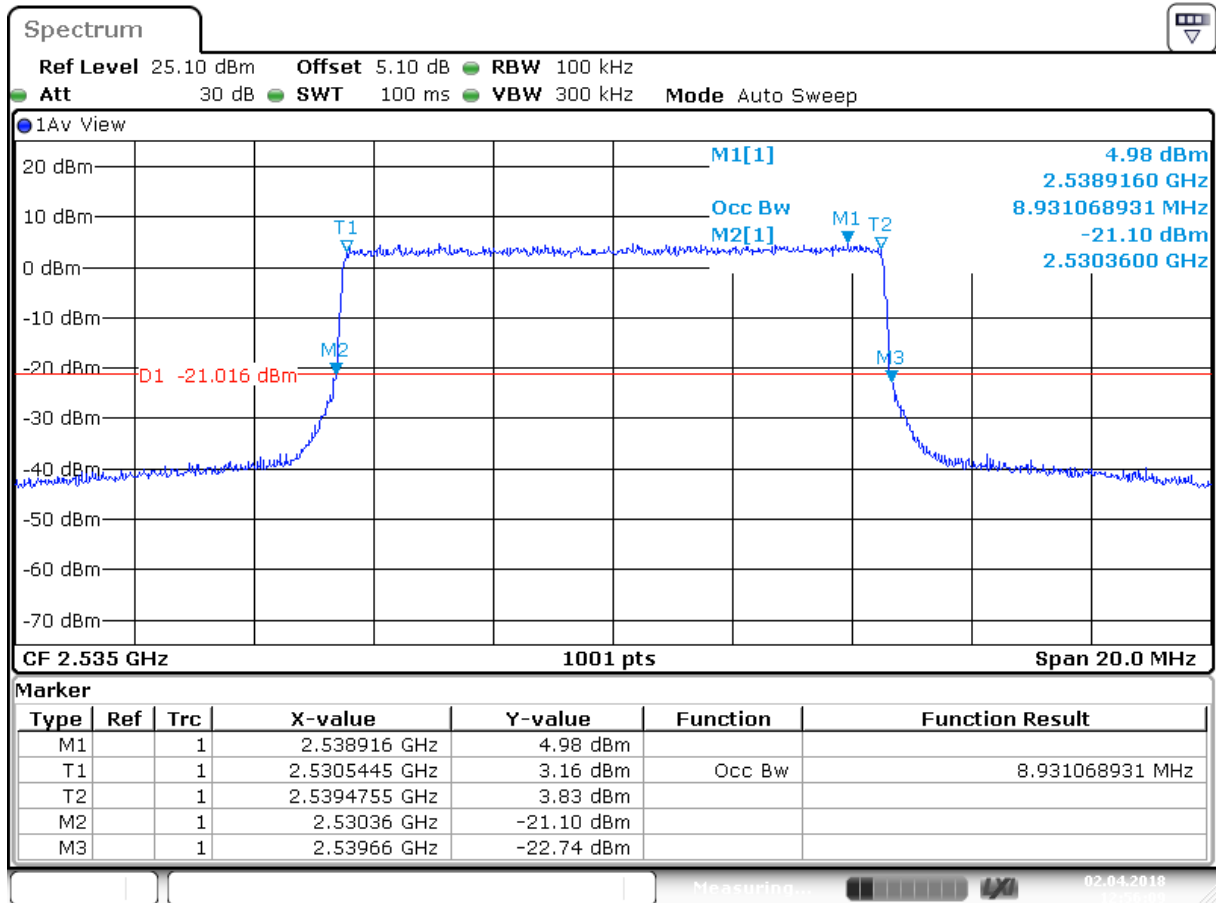
4.1.1.3 Test Mode = LTE/TM1 10MHz

4.1.1.3.1 Test Channel = LCH



Date: 2 APR 2018 12:55:47

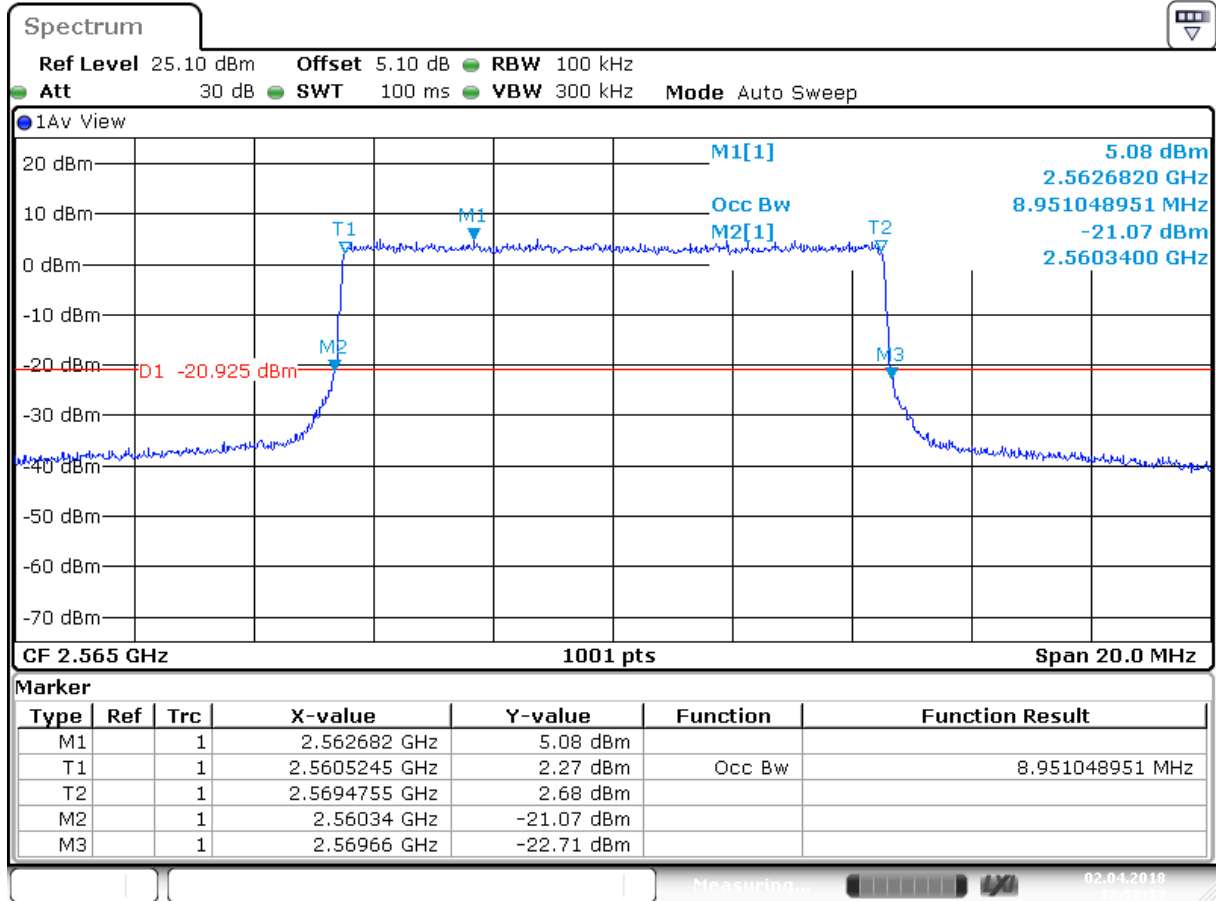
4.1.1.3.2 Test Channel = MCH



Date: 2 APR 2018 12:56:10



4.1.1.3.3 Test Channel = HCH



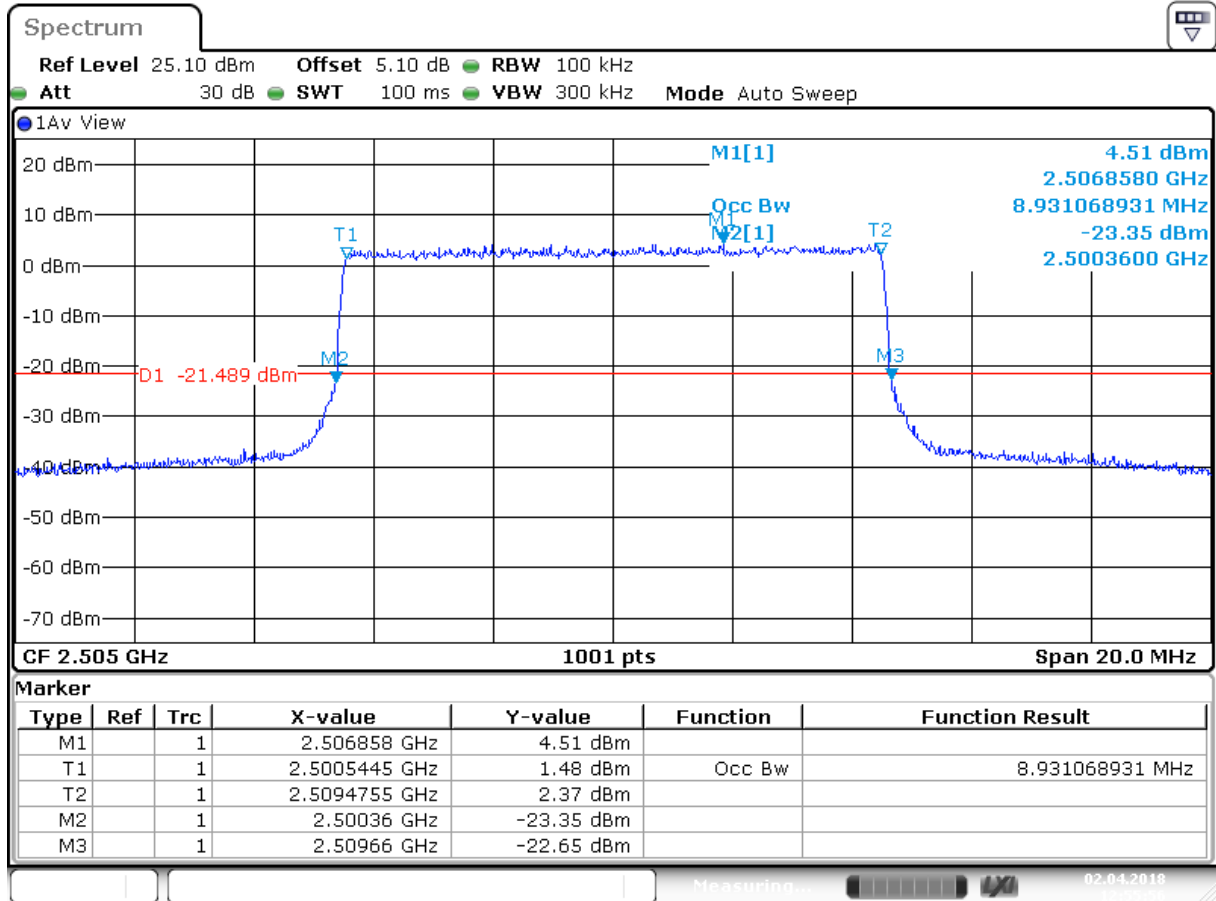
Date: 2 APR 2018 12:56:33

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4.1.1.4 Test Mode = LTE/TM2 10MHz

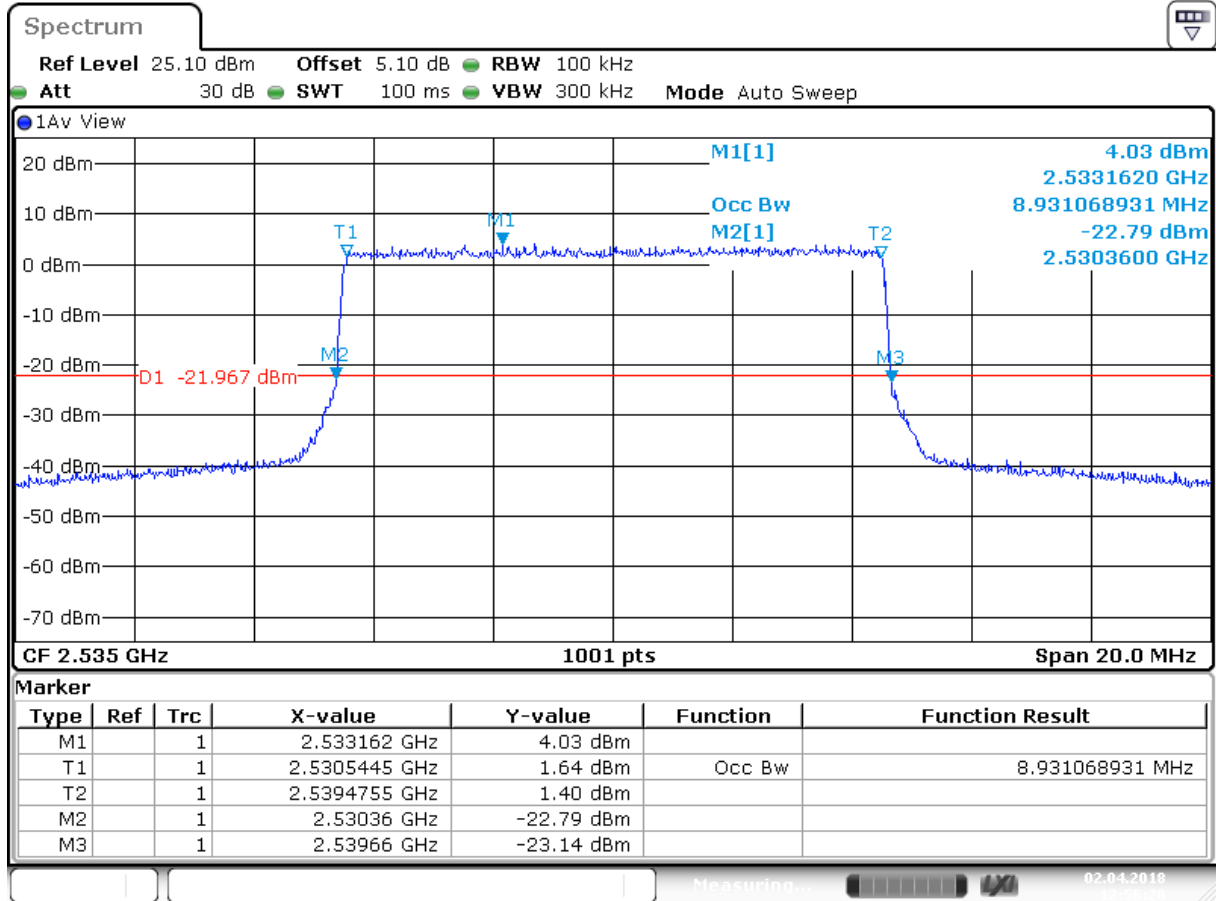
4.1.1.4.1 Test Channel = LCH



Date: 2 APR 2018 12:55:57



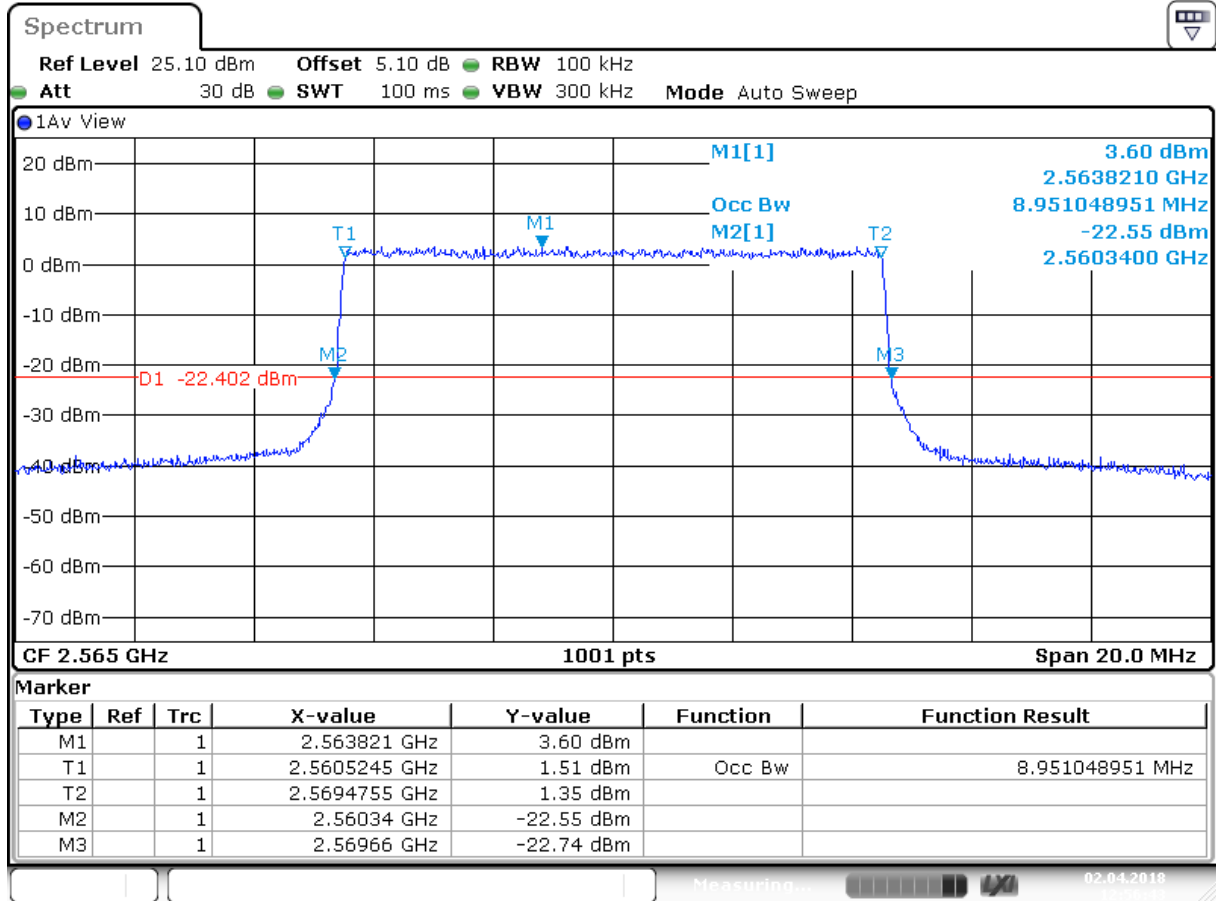
4.1.1.4.2 Test Channel = MCH



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4.1.1.4.3 Test Channel = HCH

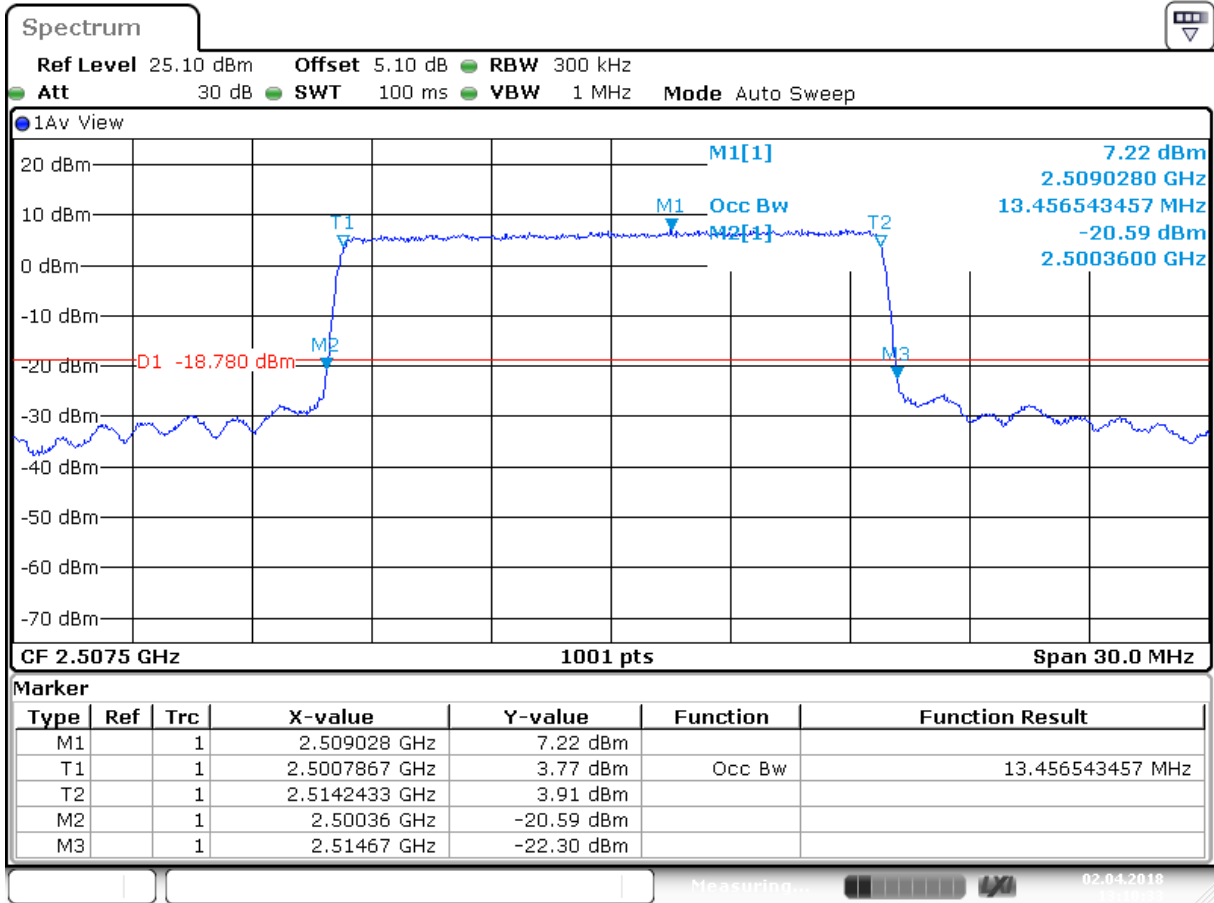


Date: 2 APR 2018 12:56:43



4.1.1.5 Test Mode = LTE/TM1 15MHz

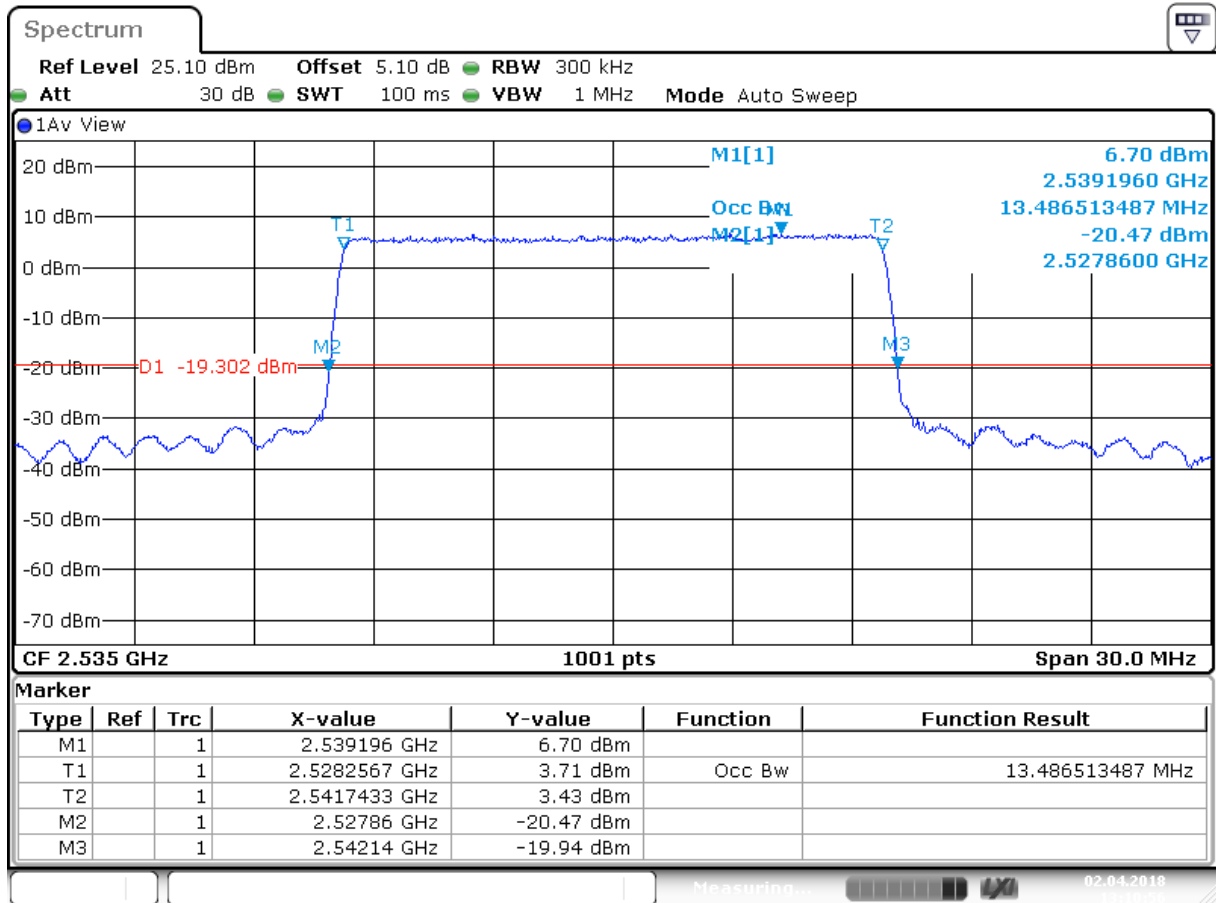
4.1.1.5.1 Test Channel = LCH



Date: 2 APR 2018 13:10:34

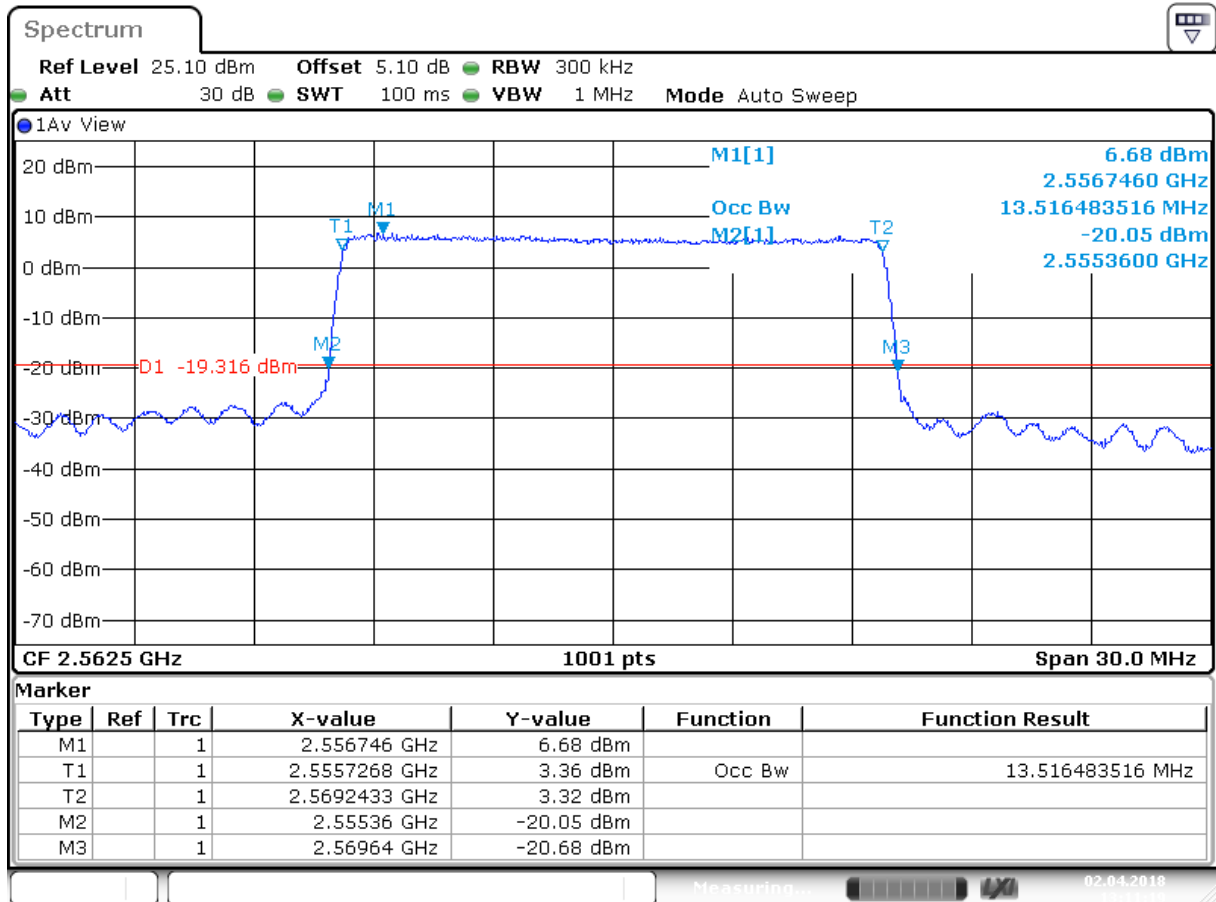
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4.1.1.5.2 Test Channel = MCH



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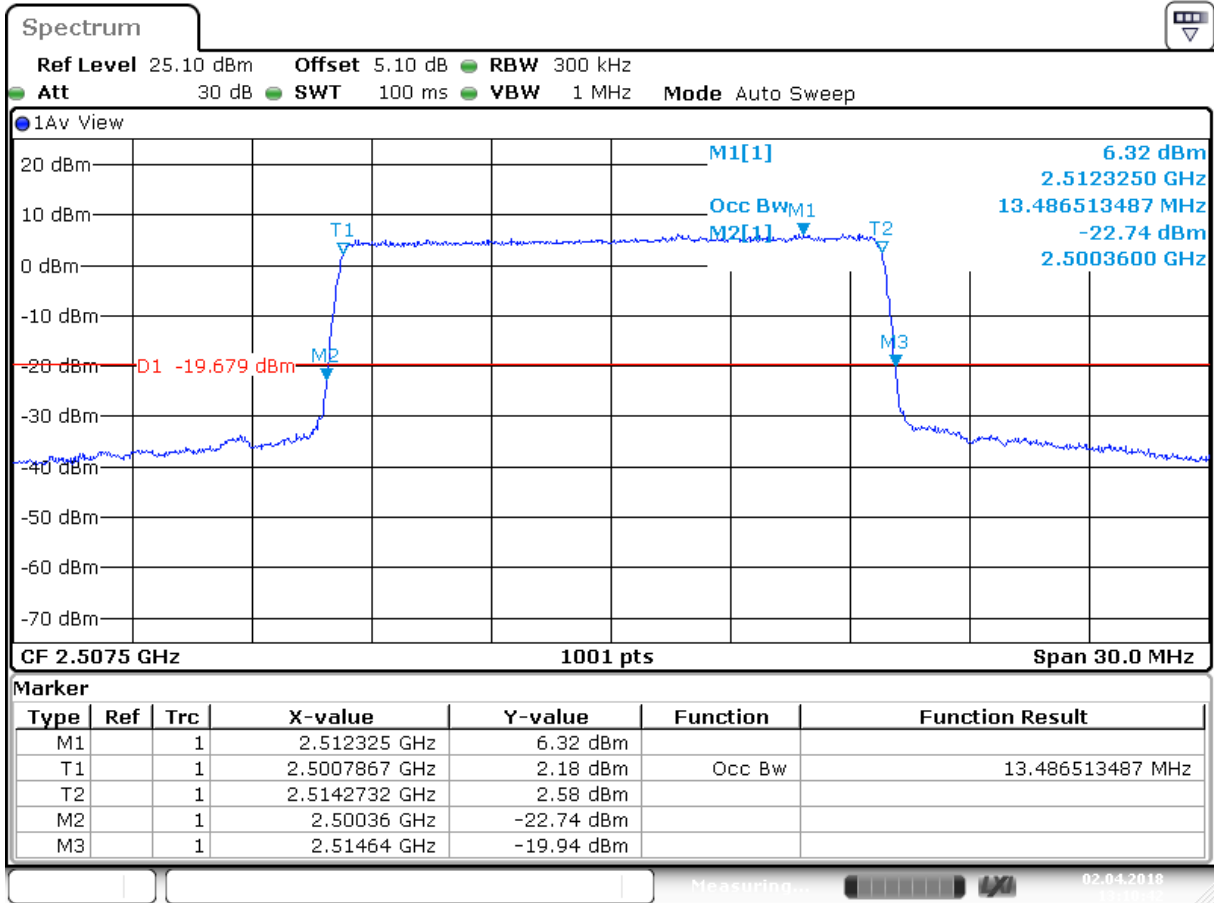
4.1.1.5.3 Test Channel = HCH



Date: 2 APR 2018 13:11:19

4.1.1.6 Test Mode = LTE/TM2 15MHz

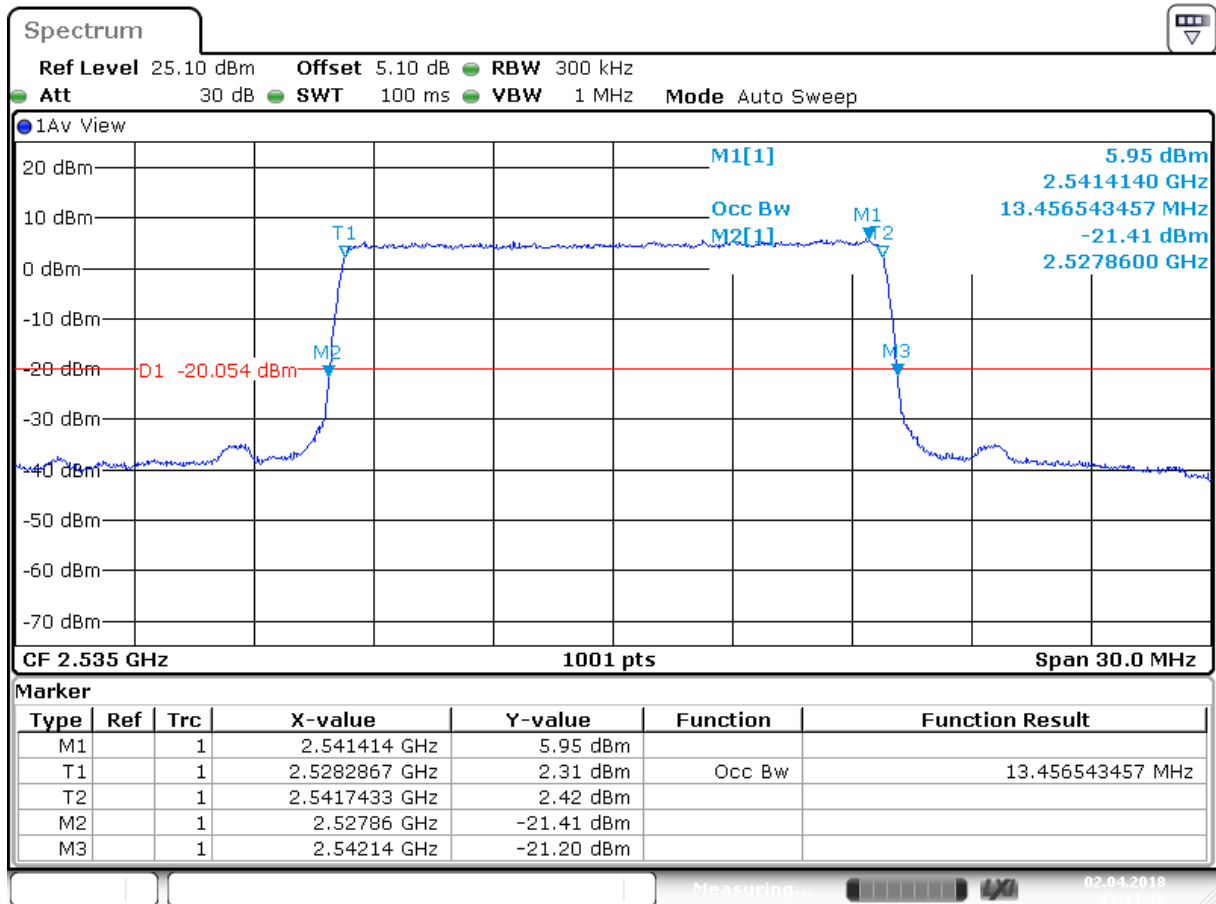
4.1.1.6.1 Test Channel = LCH



Date: 2 APR 2018 13:10:43

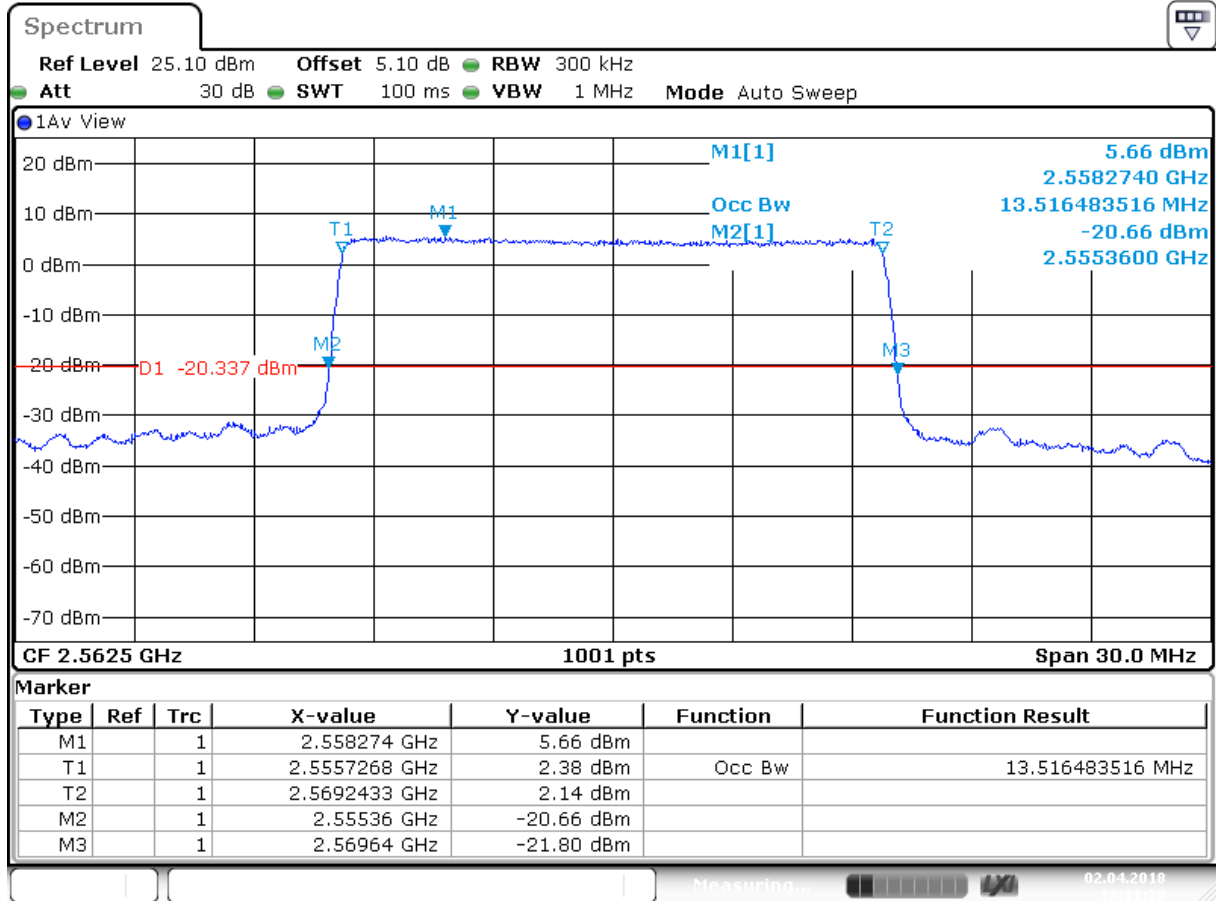
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4.1.1.6.2 Test Channel = MCH



Date: 2 APR 2018 13:11:06

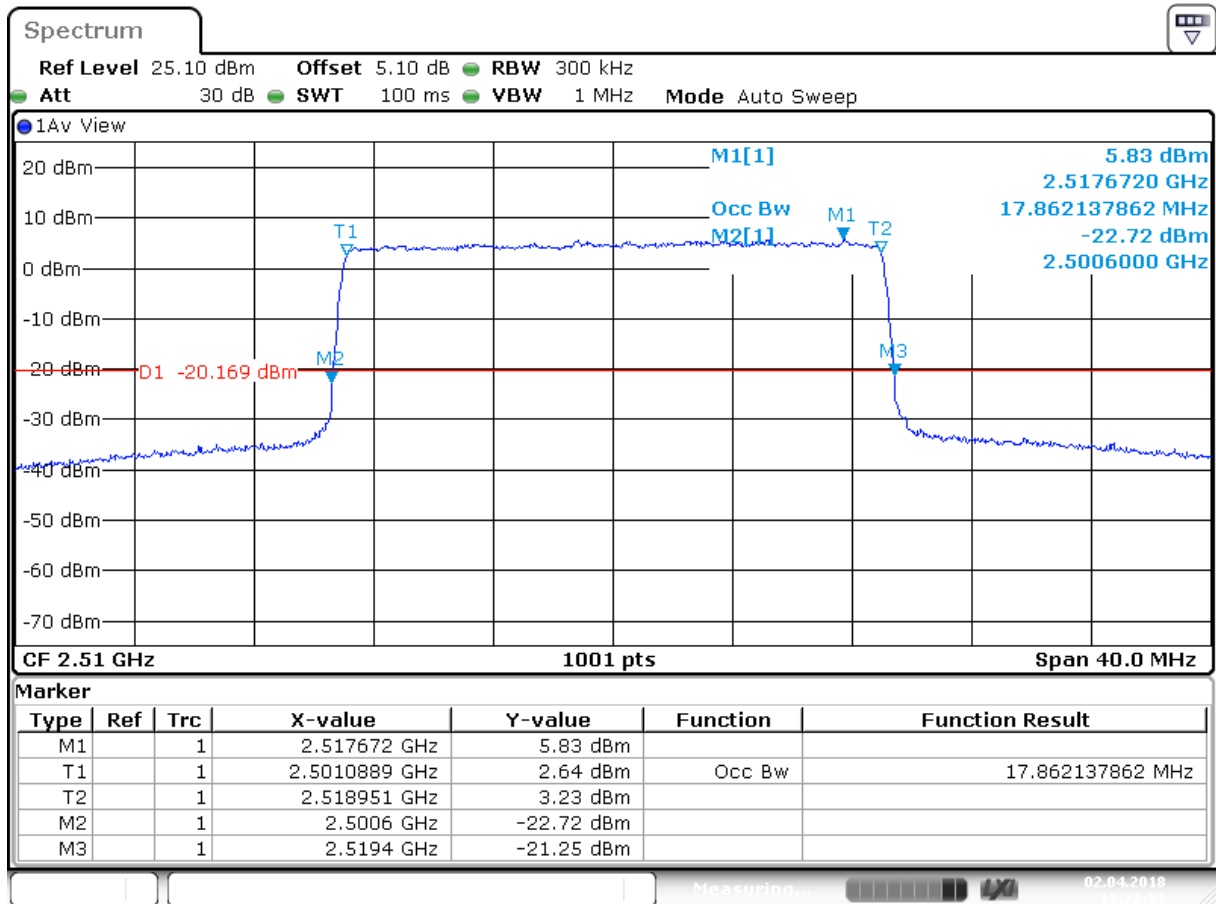
4.1.1.6.3 Test Channel = HCH



Date: 2 APR 2018 13:11:29

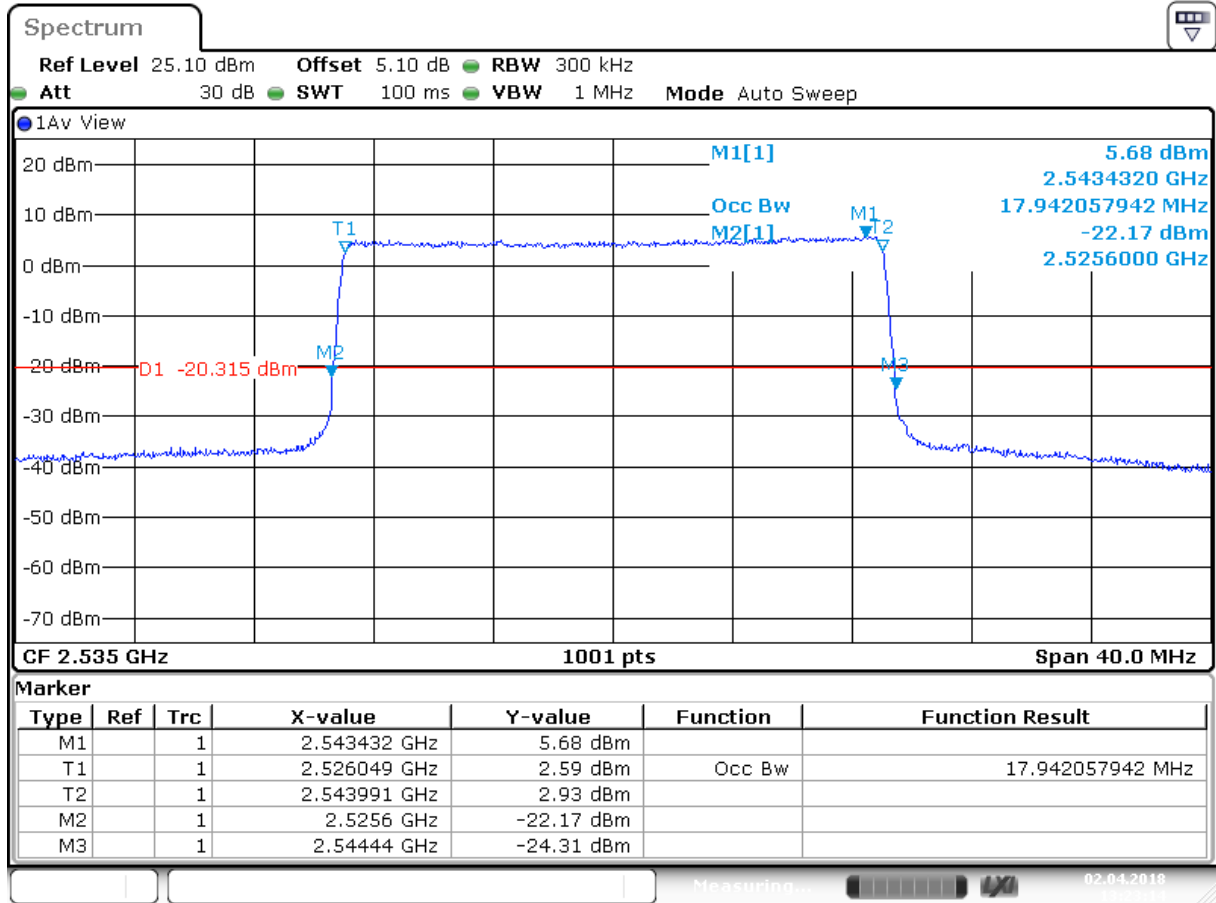
4.1.1.7 Test Mode = LTE/TM1 20MHz

4.1.1.7.1 Test Channel = LCH



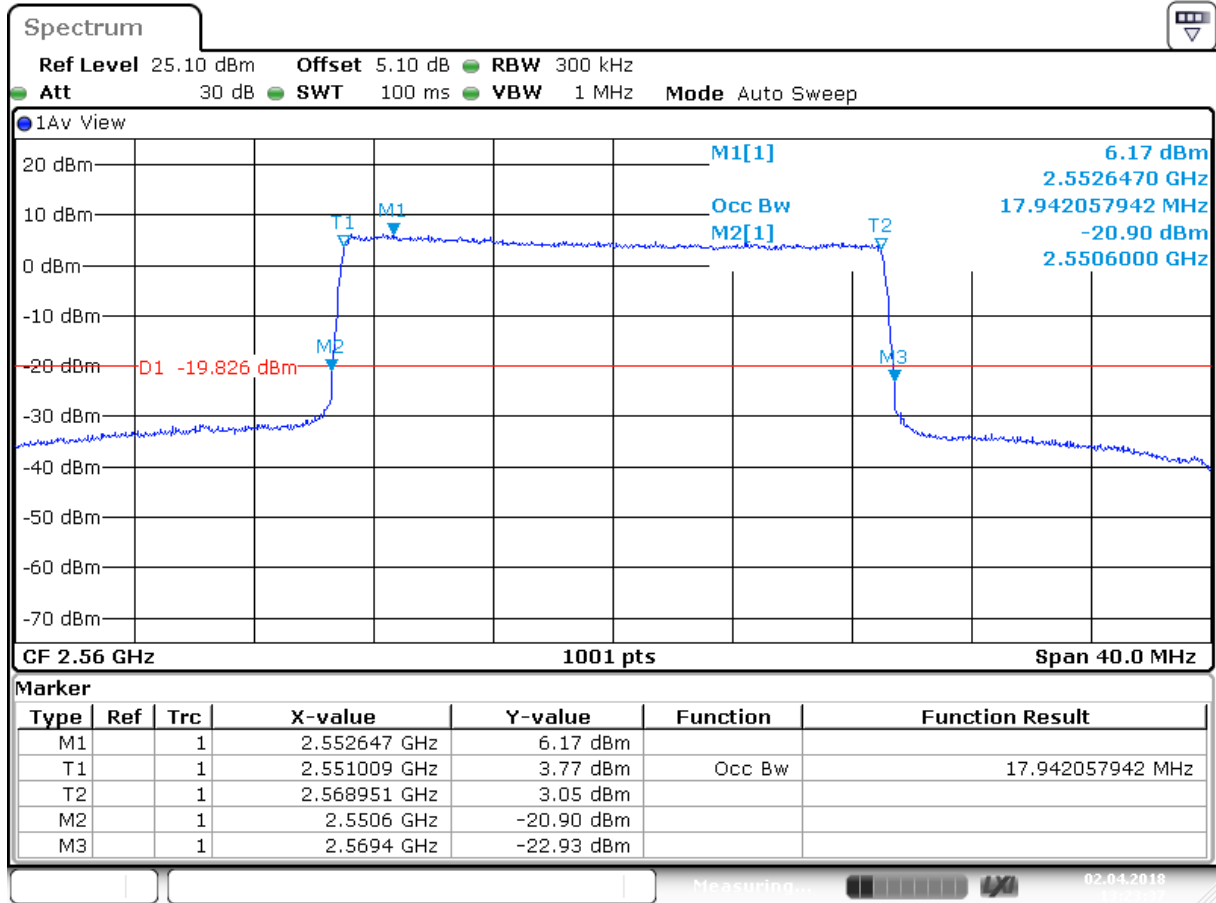
Date: 2 APR 2018 13:22:51

4.1.1.7.2 Test Channel = MCH



Date: 2 APR 2018 13:23:14

4.1.1.7.3 Test Channel = HCH

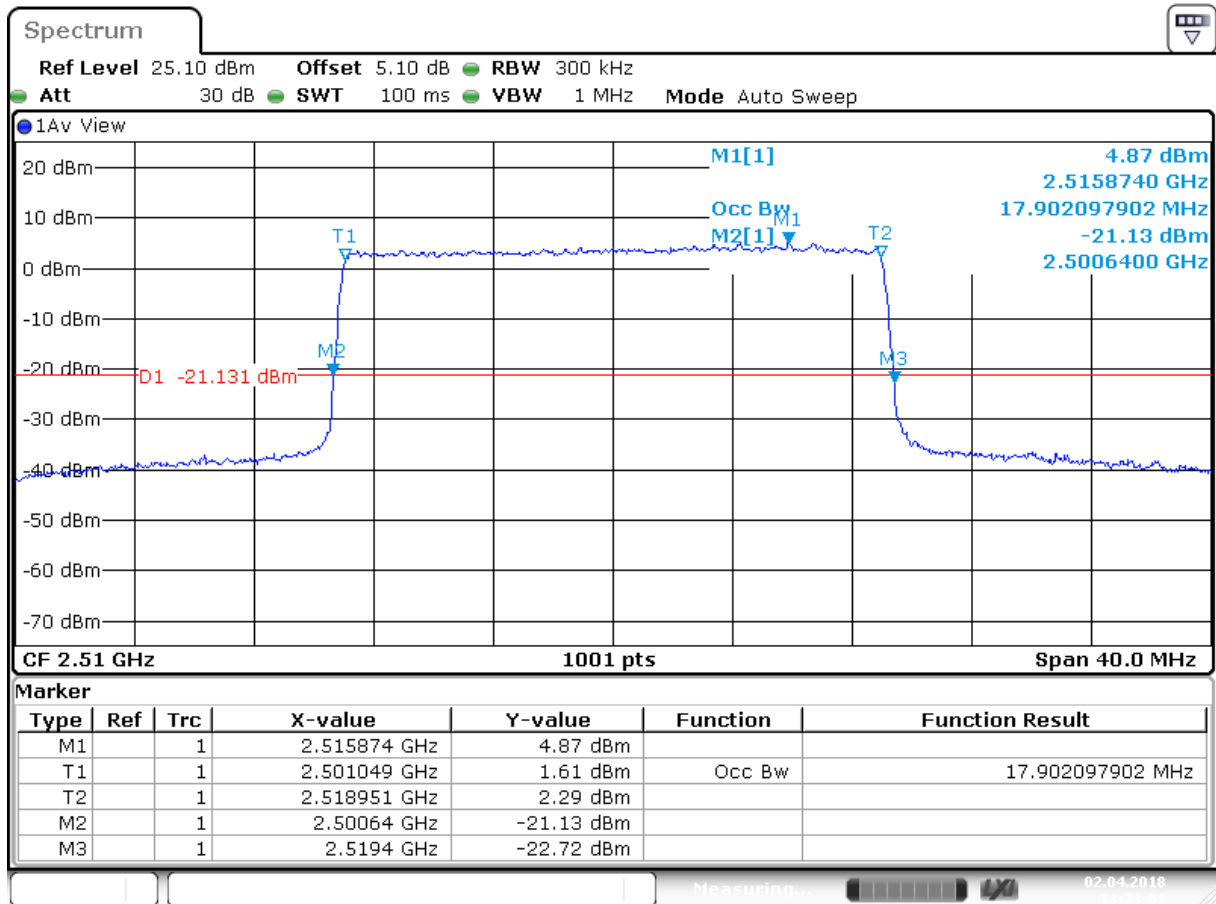


Date: 2 APR 2018 13:23:38



4.1.1.8 Test Mode = LTE/TM2 20MHz

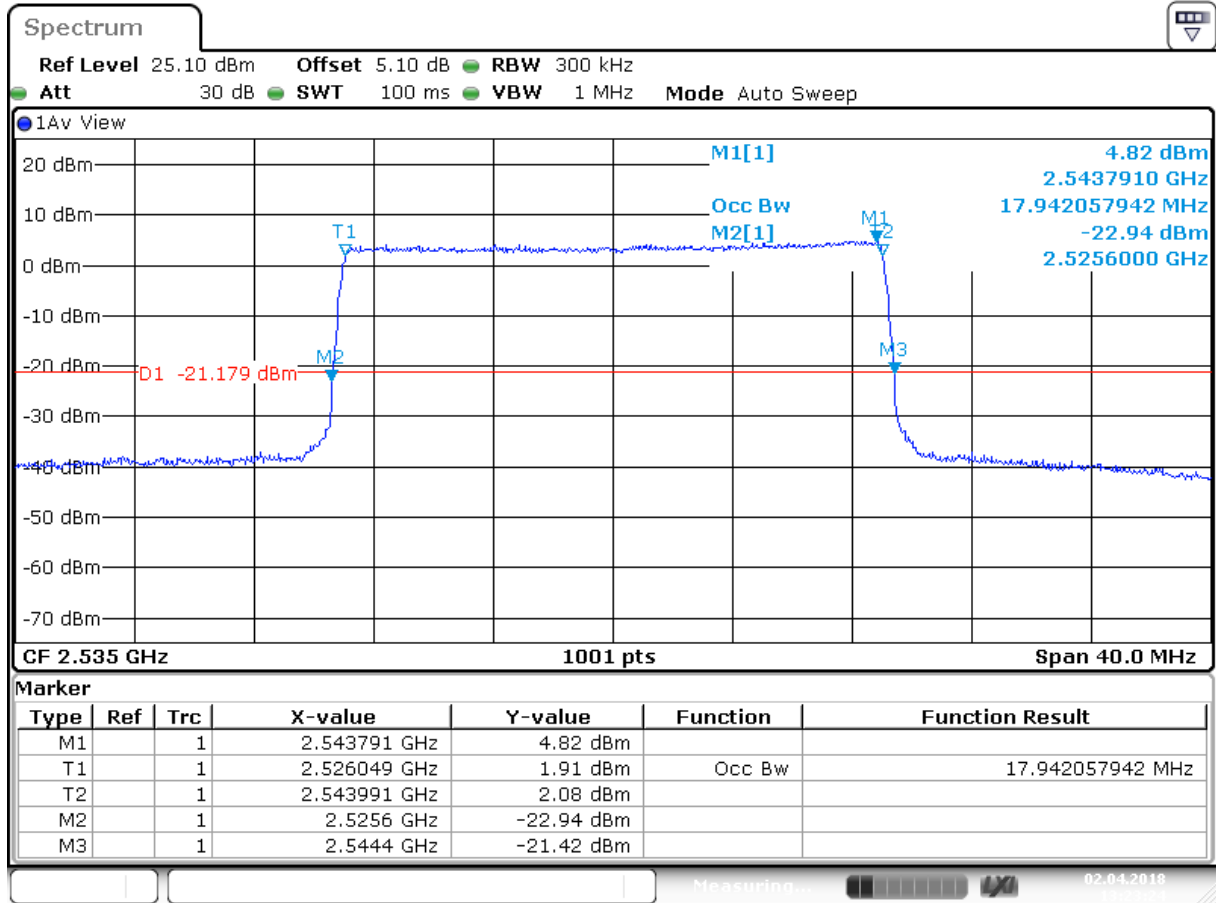
4.1.1.8.1 Test Channel = LCH



Date: 2 APR 2018 13:23:01



4.1.1.8.2 Test Channel = MCH

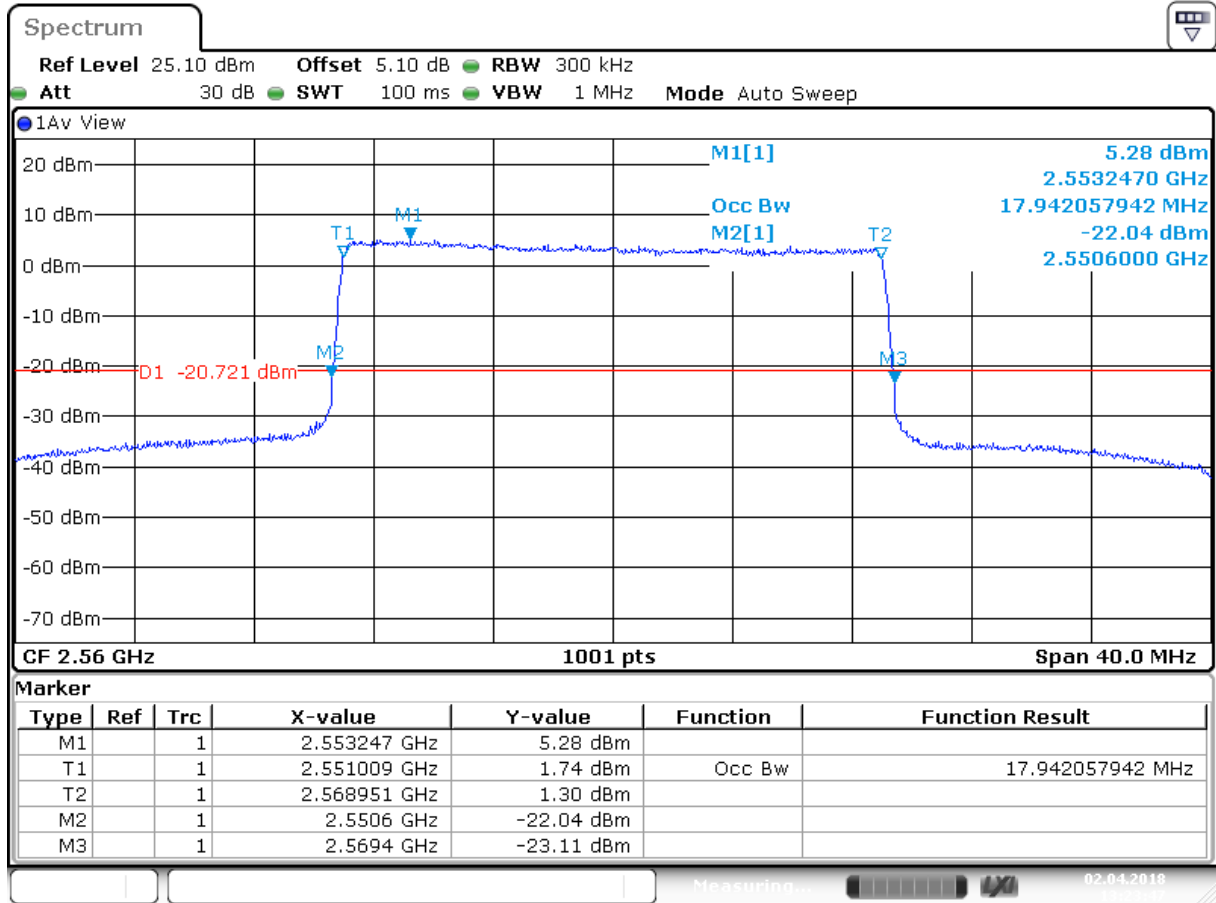


Date: 2 APR 2018 13:23:24

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4.1.1.8.3 Test Channel = HCH



Date: 2 APR 2018 13:23:47

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5 Band Edges Compliance

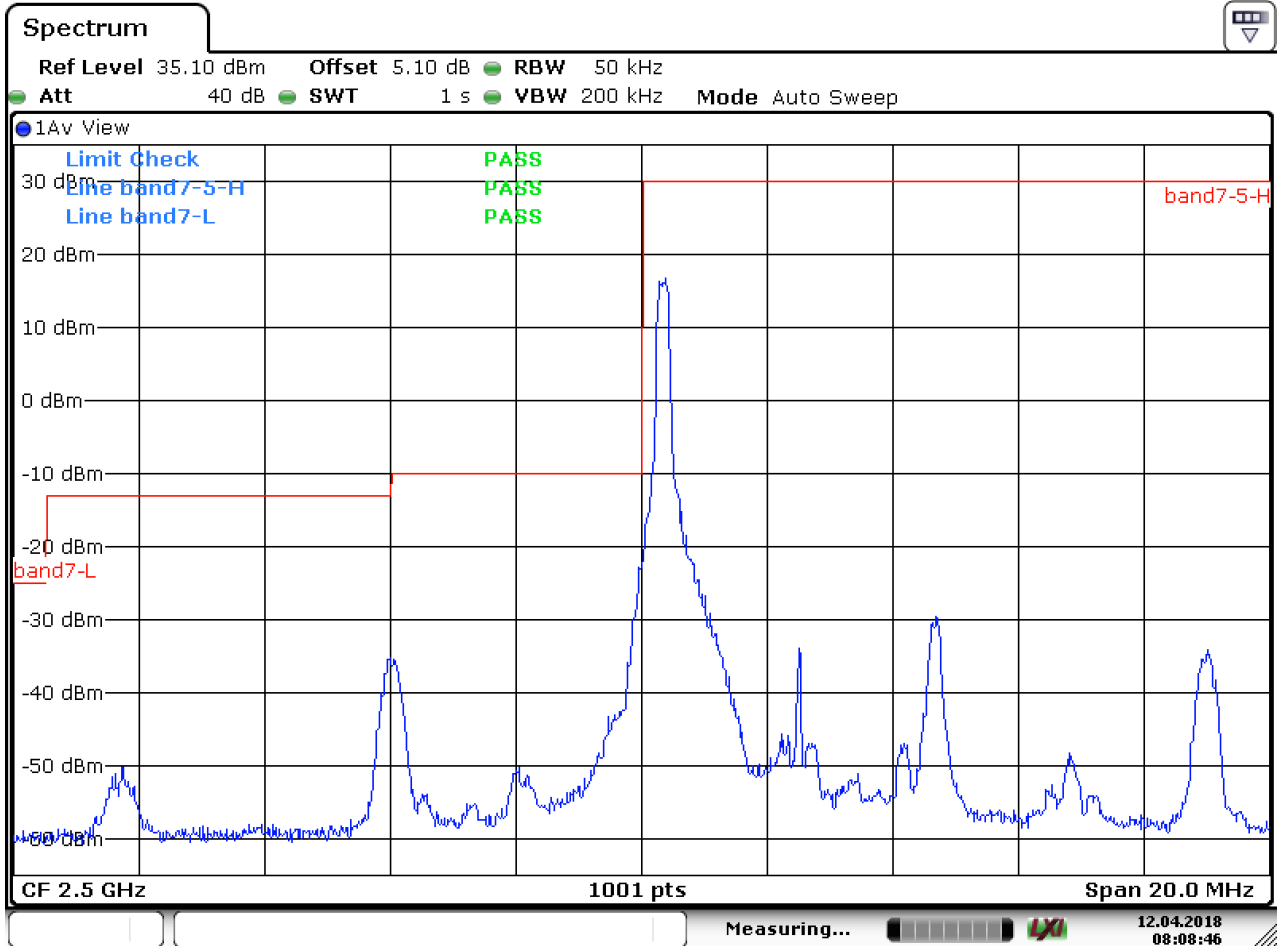
5.1 For LTE

5.1.1 Test Band = LTE BAND 7

5.1.1.1 Test Mode = LTE/TM1 5MHz

5.1.1.1.1 Test Channel = LCH

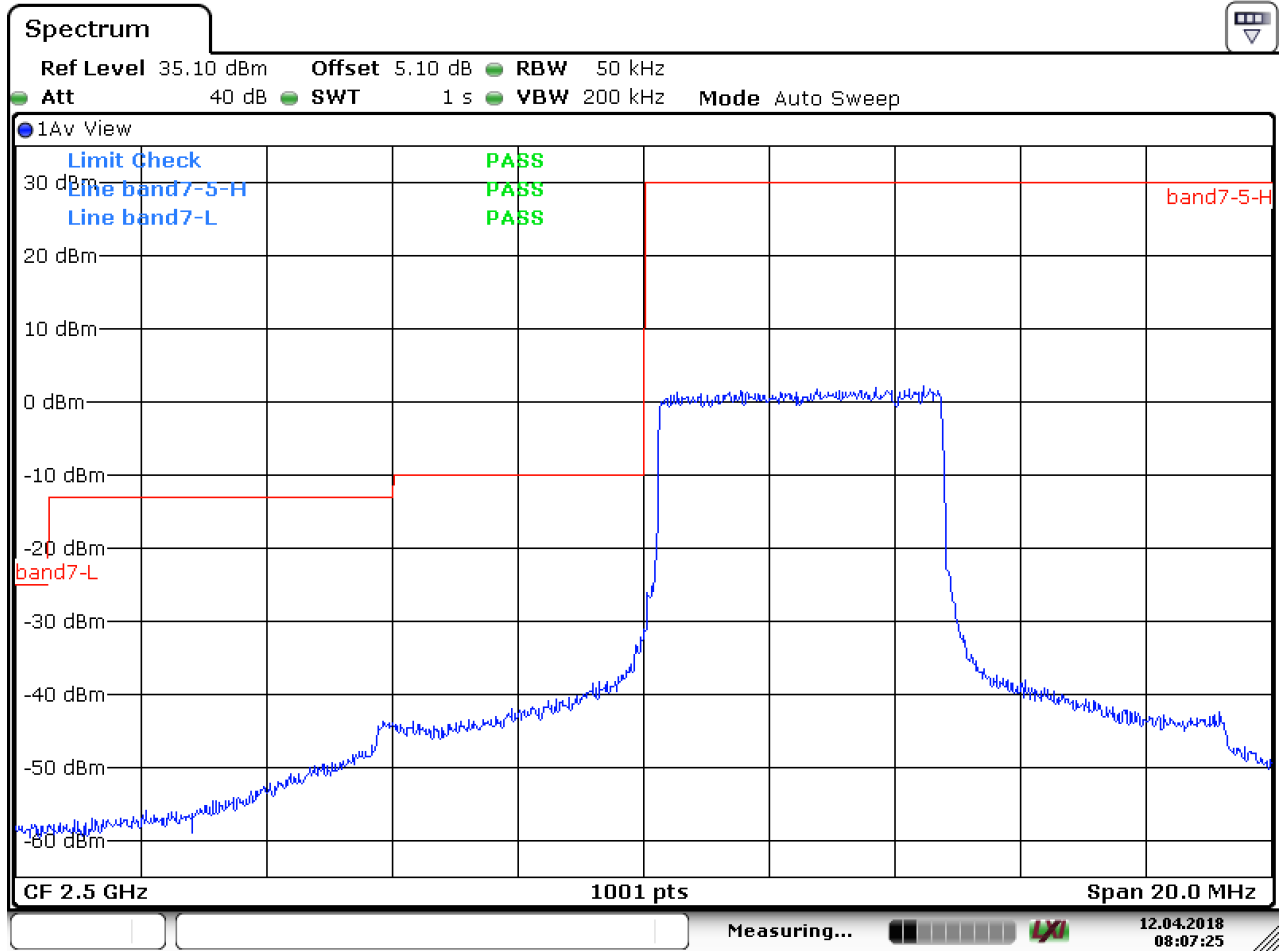
5.1.1.1.1.1 Test RB=1RB#Low



Date: 12.APR.2018 08:08:46



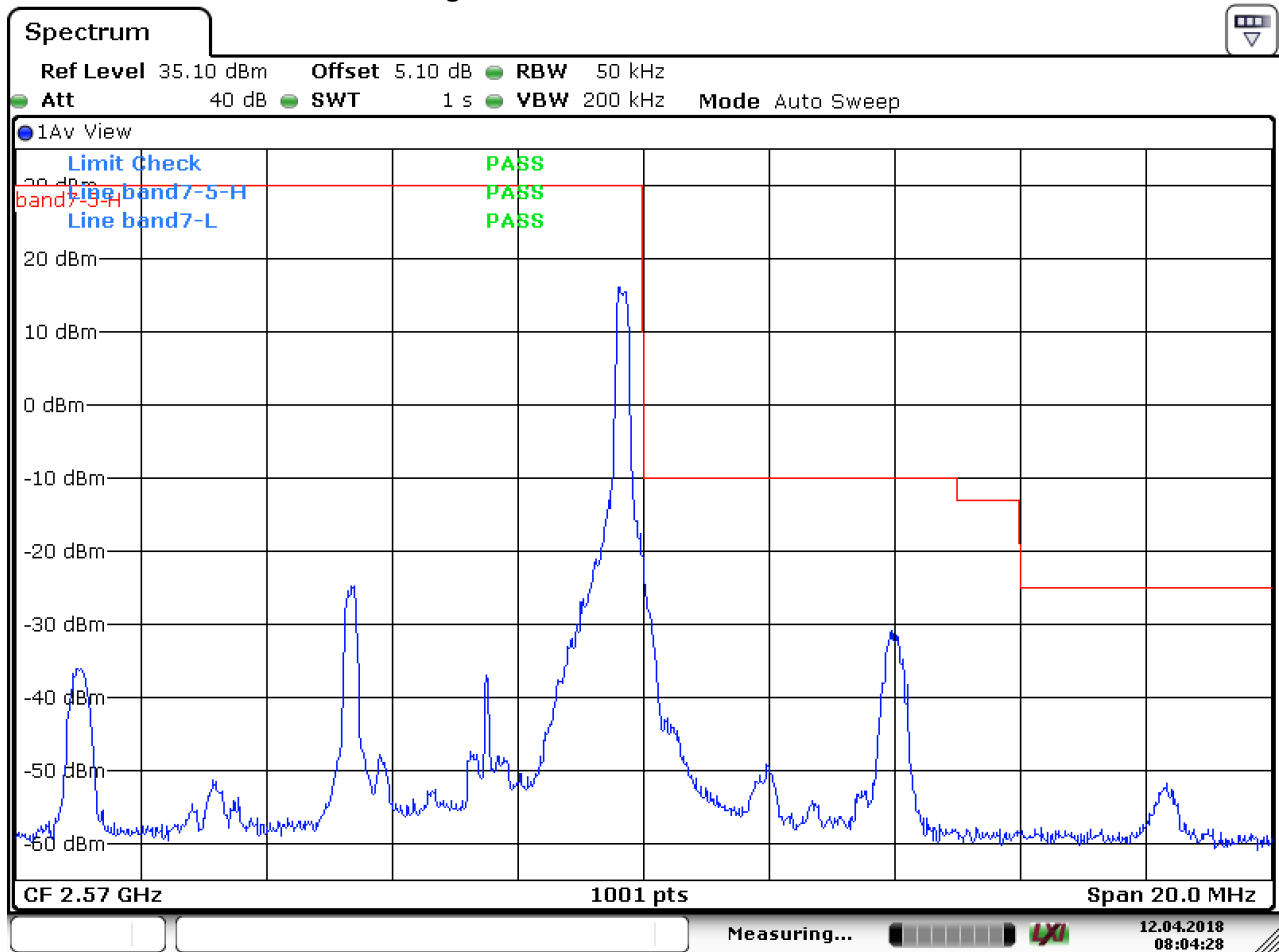
5.1.1.1.2 Test RB=FullRBs



Date: 12.APR.2018 08:07:25

5.1.1.1.2 Test Channel = HCH

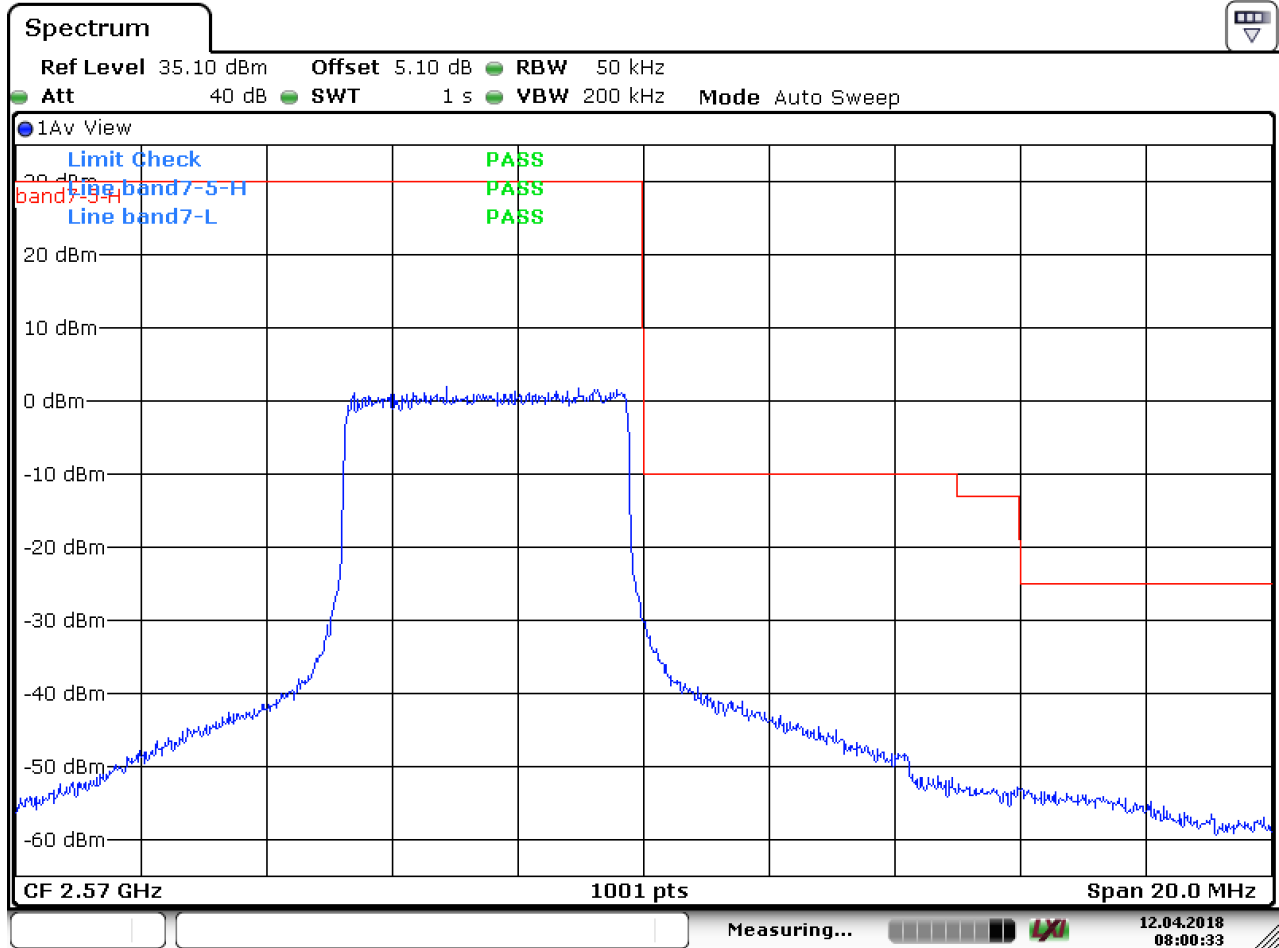
5.1.1.1.2.1 Test RB=1RB#High



Date: 12.APR.2018 08:04:28



5.1.1.1.2.2 Test RB=FullRBs



Date: 12.APR.2018 08:00:33

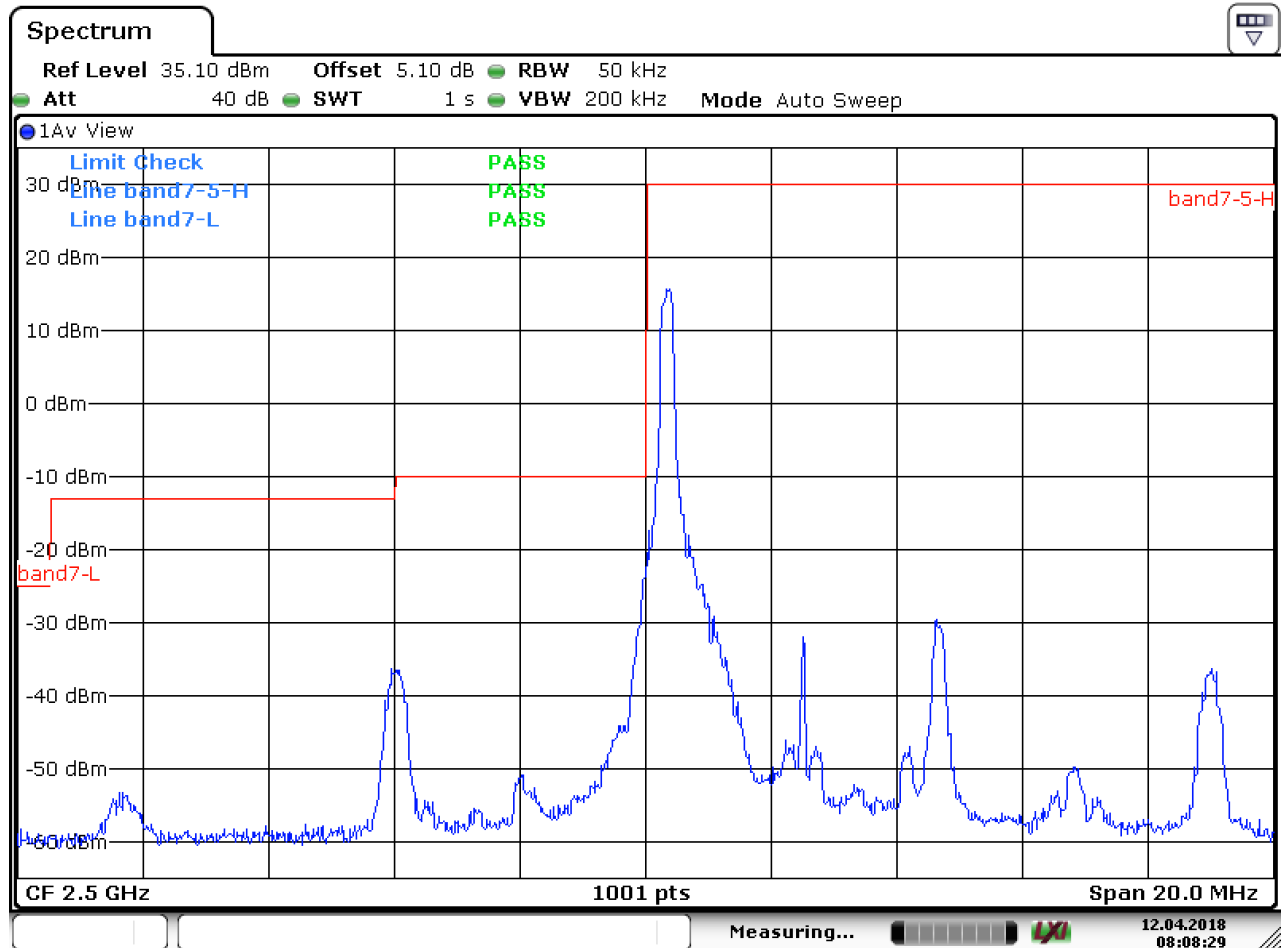
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5.1.1.2 Test Mode = LTE/TM2 5MHz

5.1.1.2.1 Test Channel = LCH

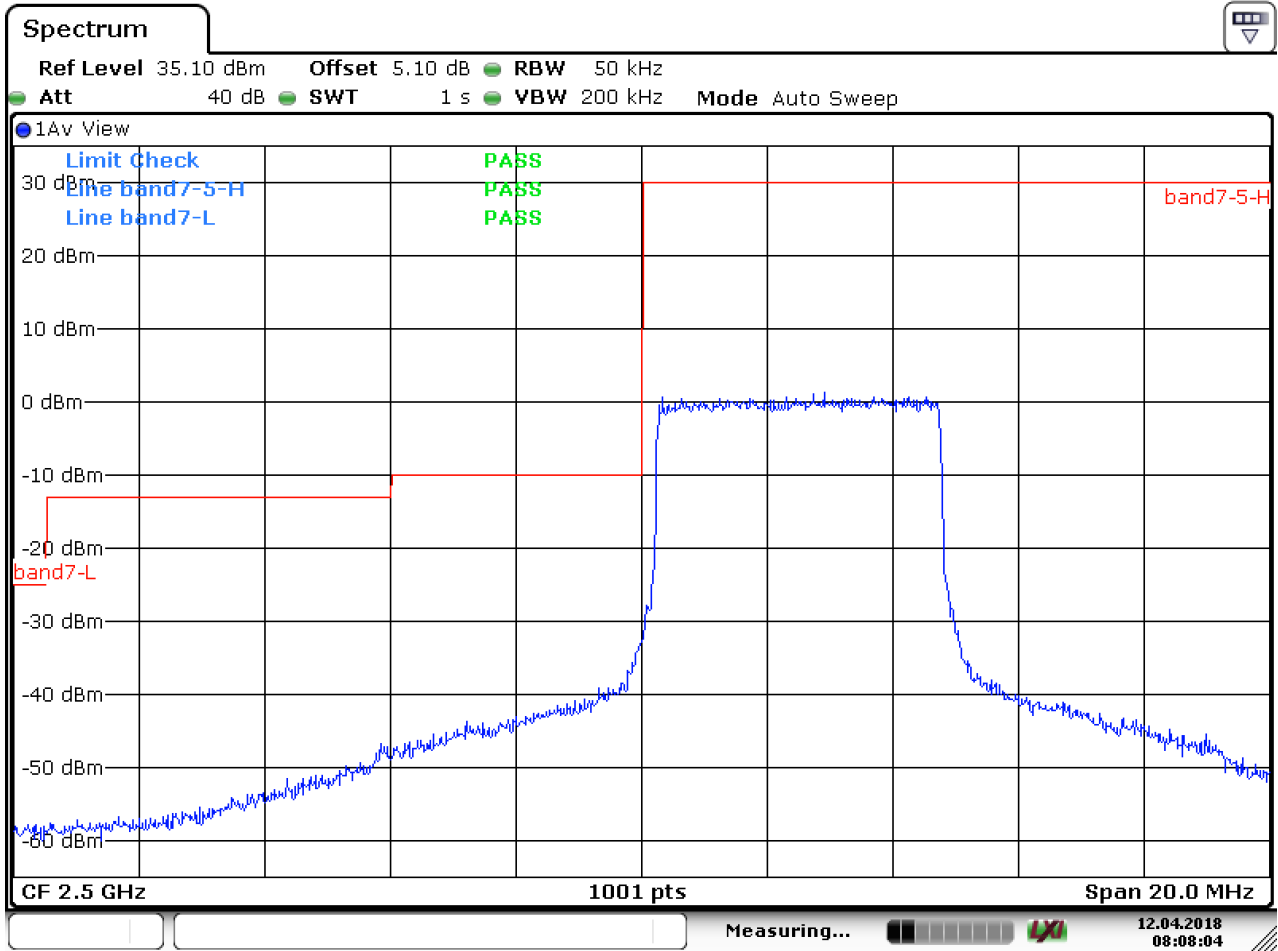
5.1.1.2.1.1 Test RB=1RB#Low



Date: 12.APR.2018 08:08:29



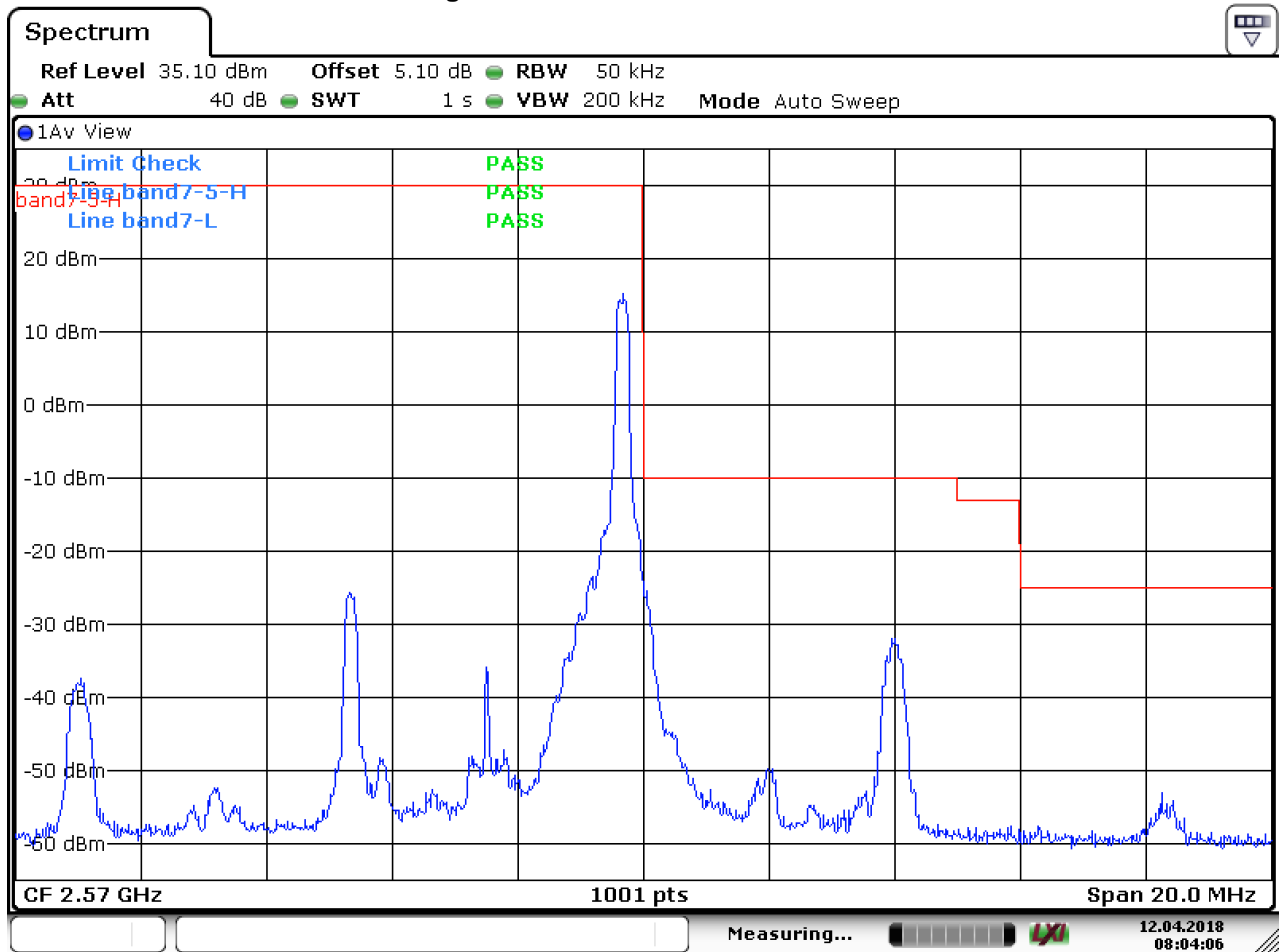
5.1.1.2.1.2 Test RB=FullRBs



Date: 12.APR.2018 08:08:05

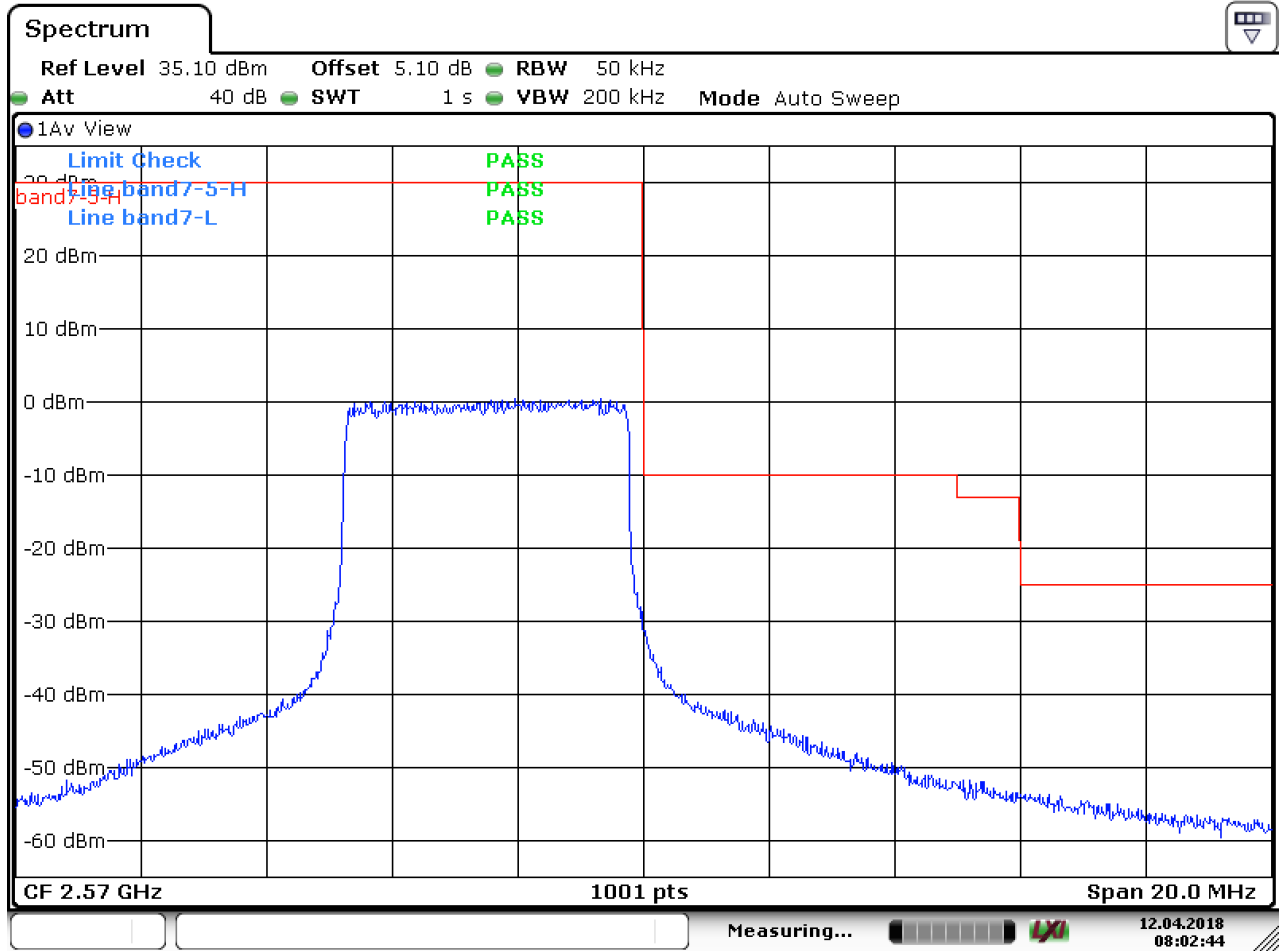
5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB#High



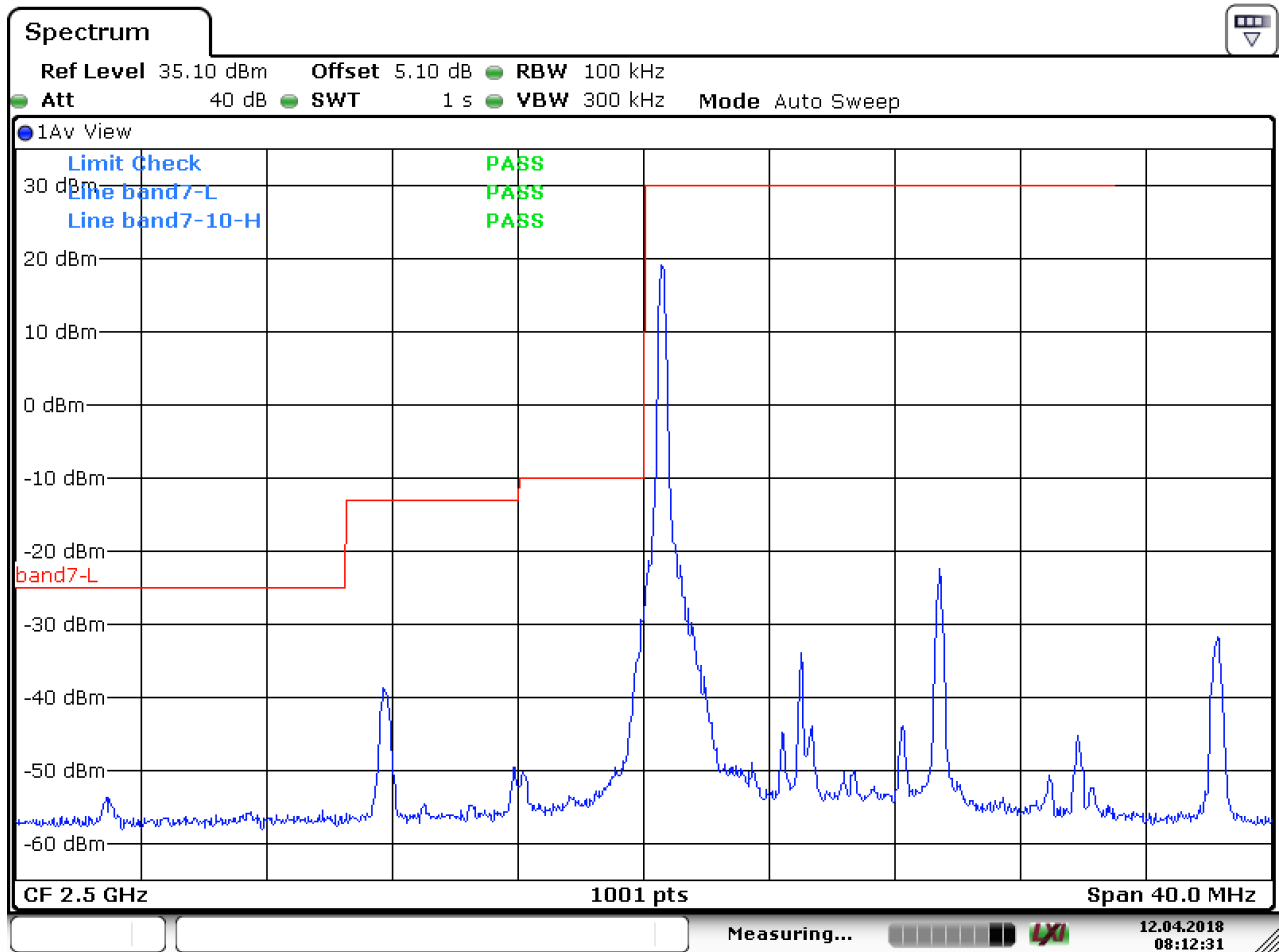
Date: 12.APR.2018 08:04:07

5.1.1.2.2.2 Test RB=FullRBs



Date: 12.APR.2018 08:02:44

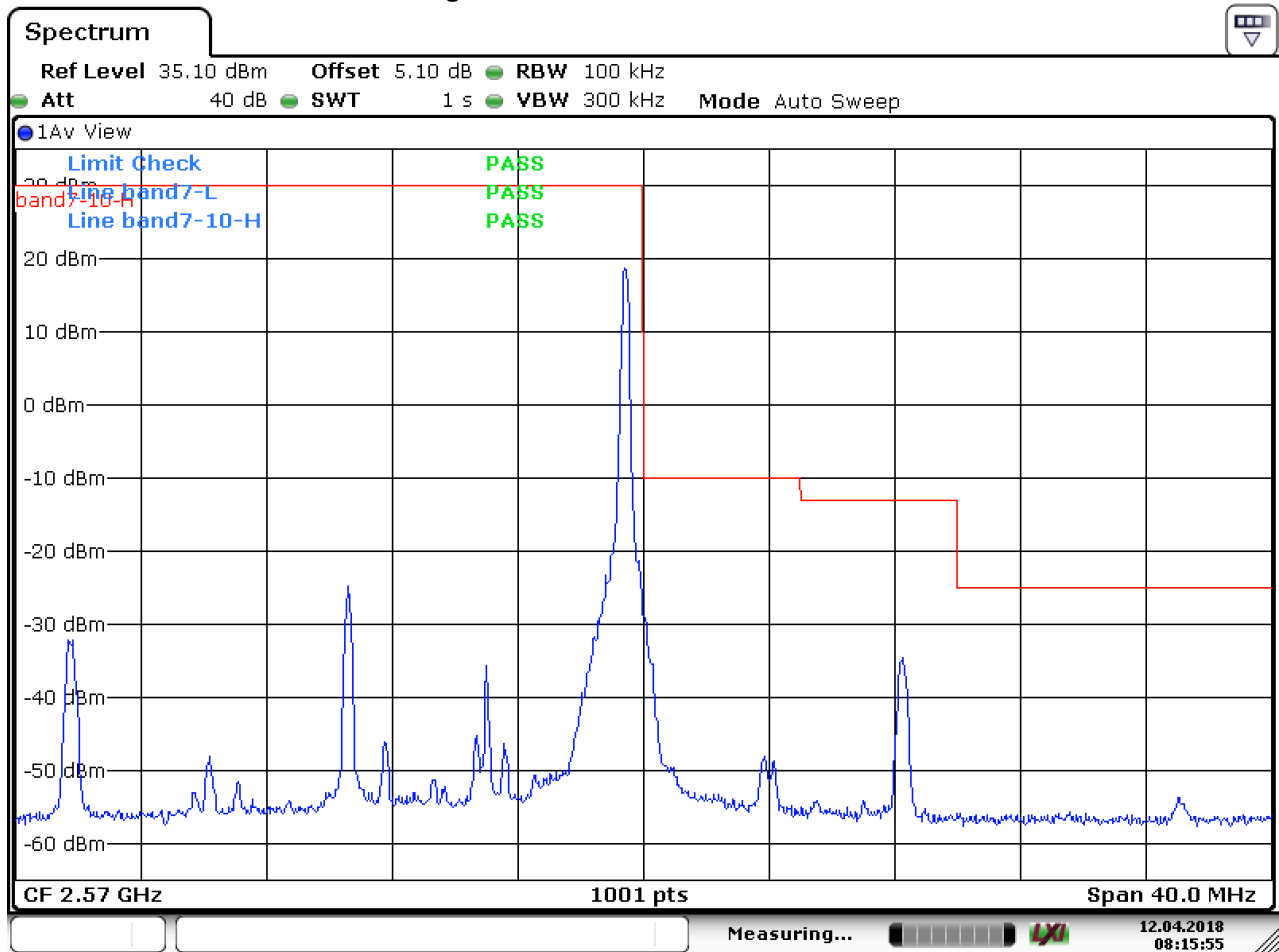
5.1.1.3 Test Mode = LTE/TM1 10MHz
5.1.1.3.1 Test Channel = LCH
5.1.1.3.1.1 Test RB=1RB#Low



Date: 12.APR.2018 08:12:31

5.1.1.3.2 Test Channel = HCH

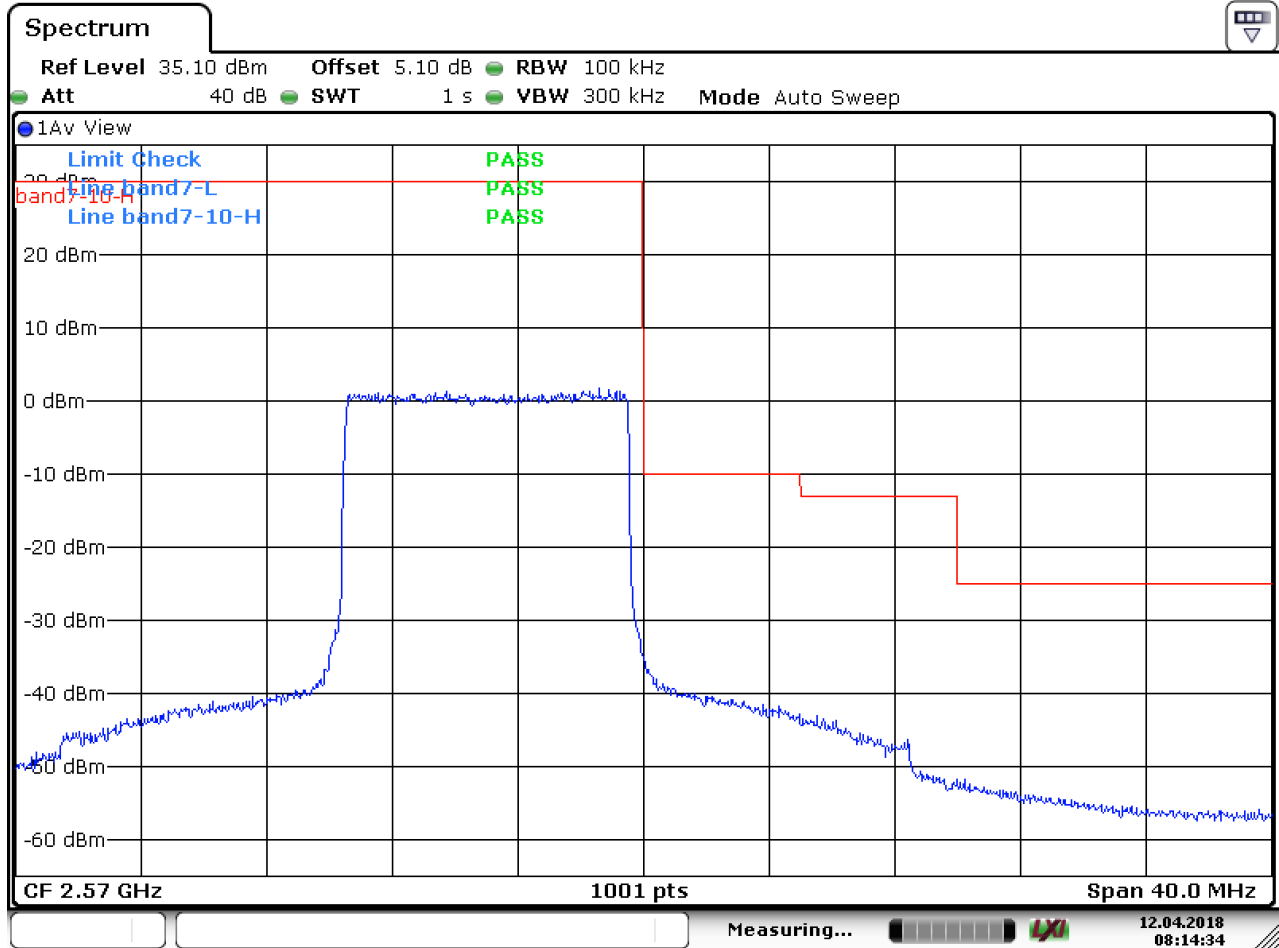
5.1.1.3.2.1 Test RB=1RB#High



Date: 12.APR.2018 08:15:55

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5.1.1.3.2.2 Test RB=FullRBs



Date: 12.APR.2018 08:14:34

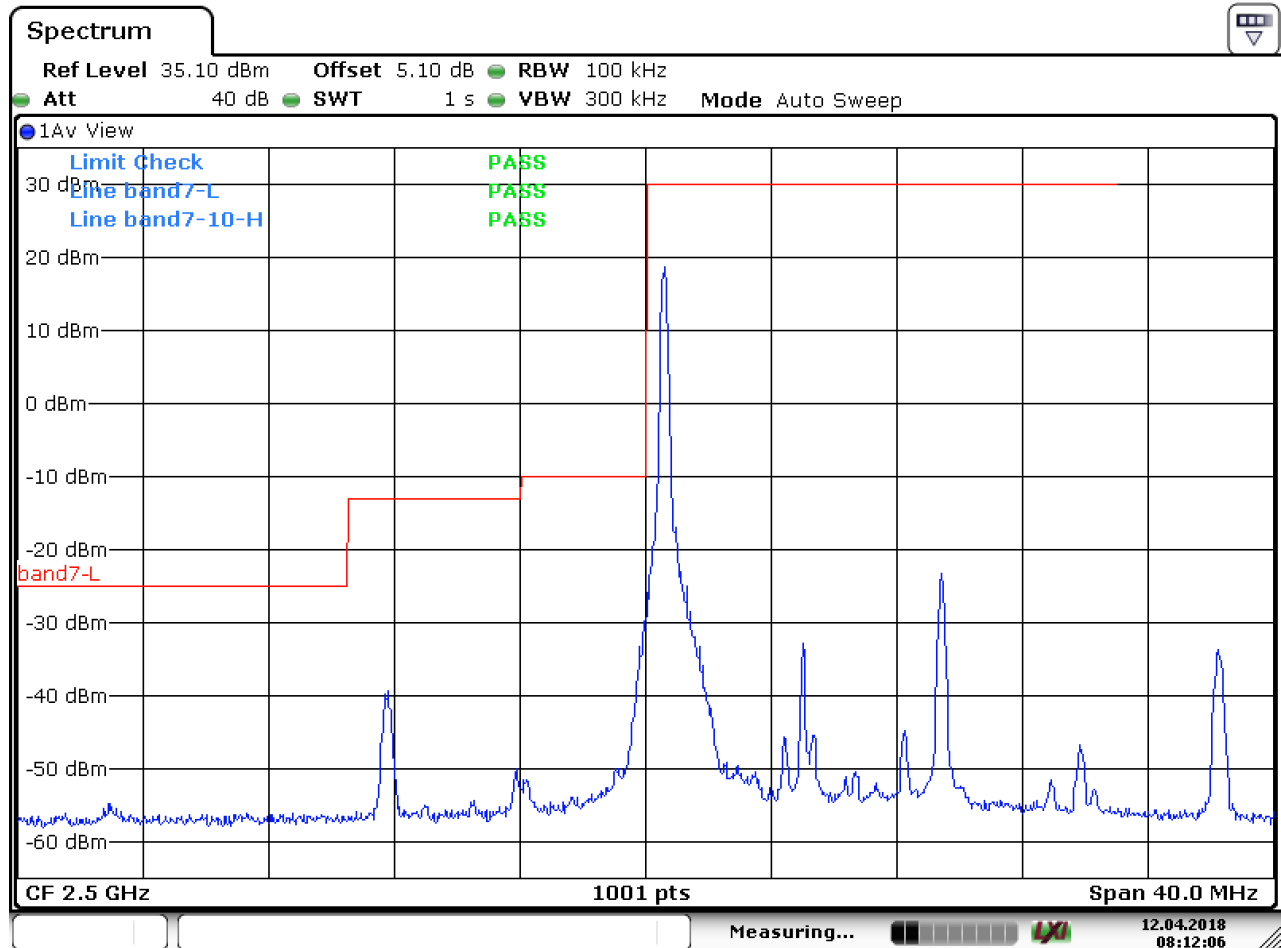
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5.1.1.4 Test Mode = LTE/TM2 10MHz

5.1.1.4.1 Test Channel = LCH

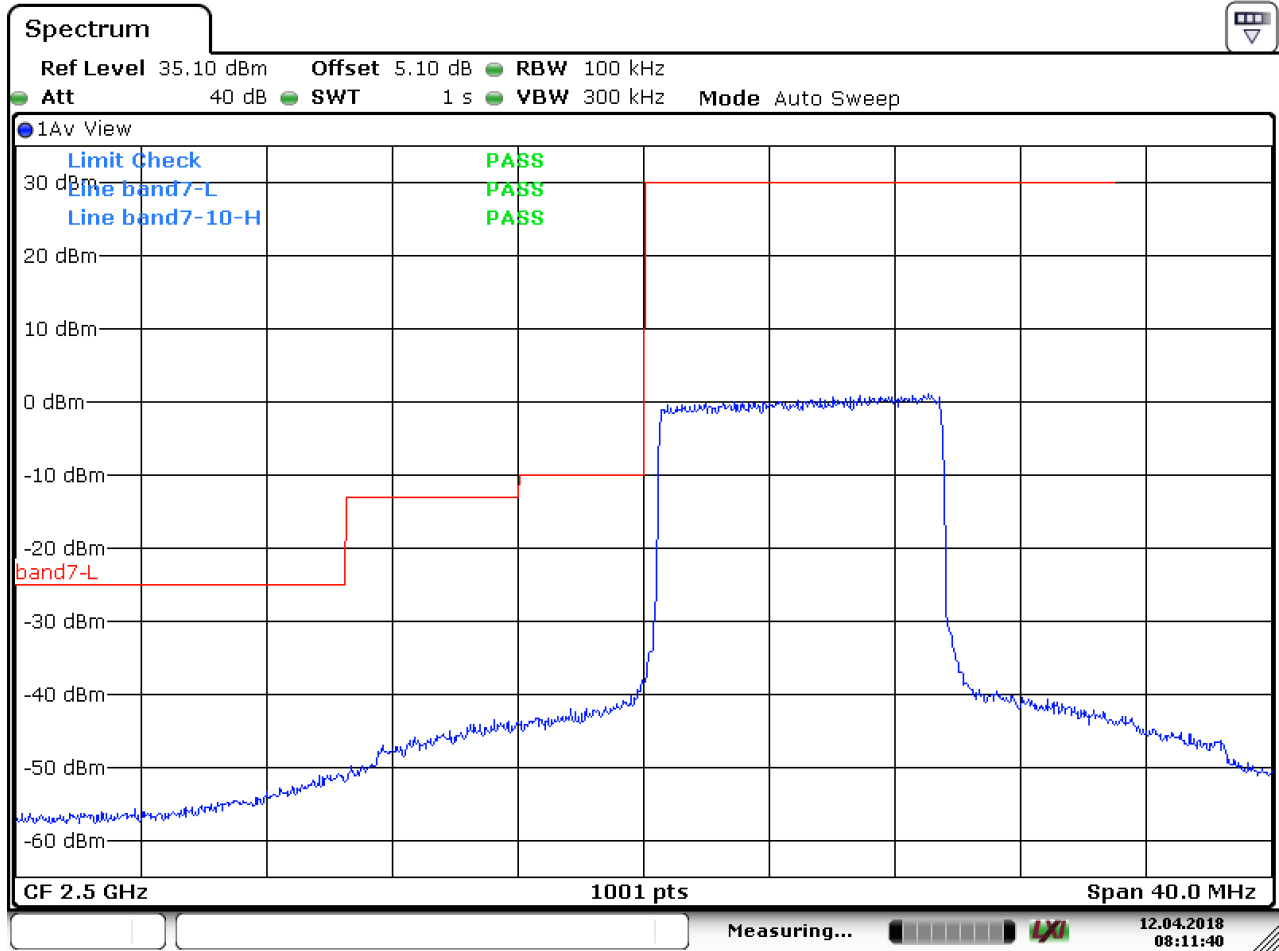
5.1.1.4.1.1 Test RB=1RB#Low



Date: 12.APR.2018 08:12:06



5.1.1.4.1.2 Test RB=FullRBs

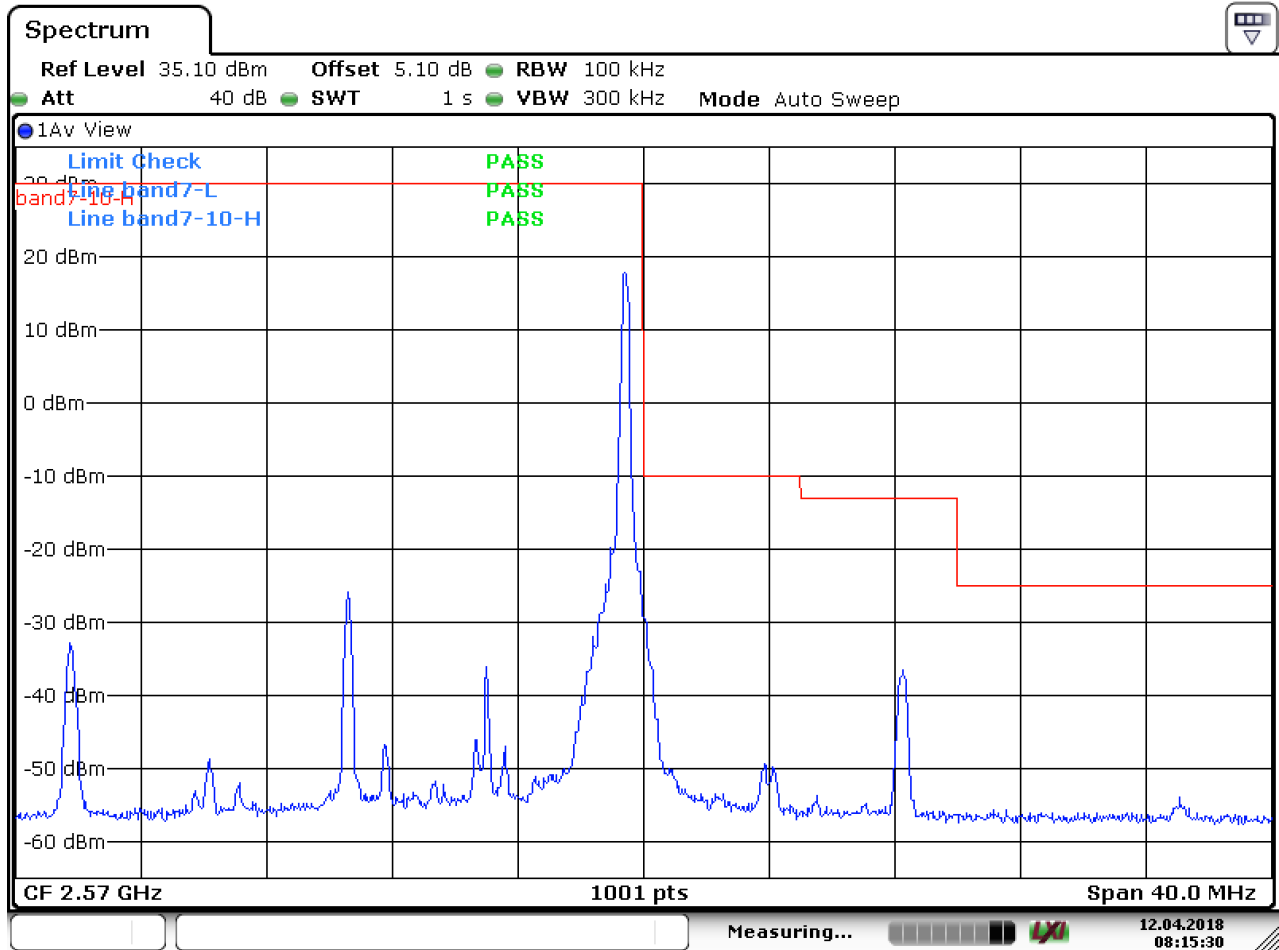


Date: 12.APR.2018 08:11:40

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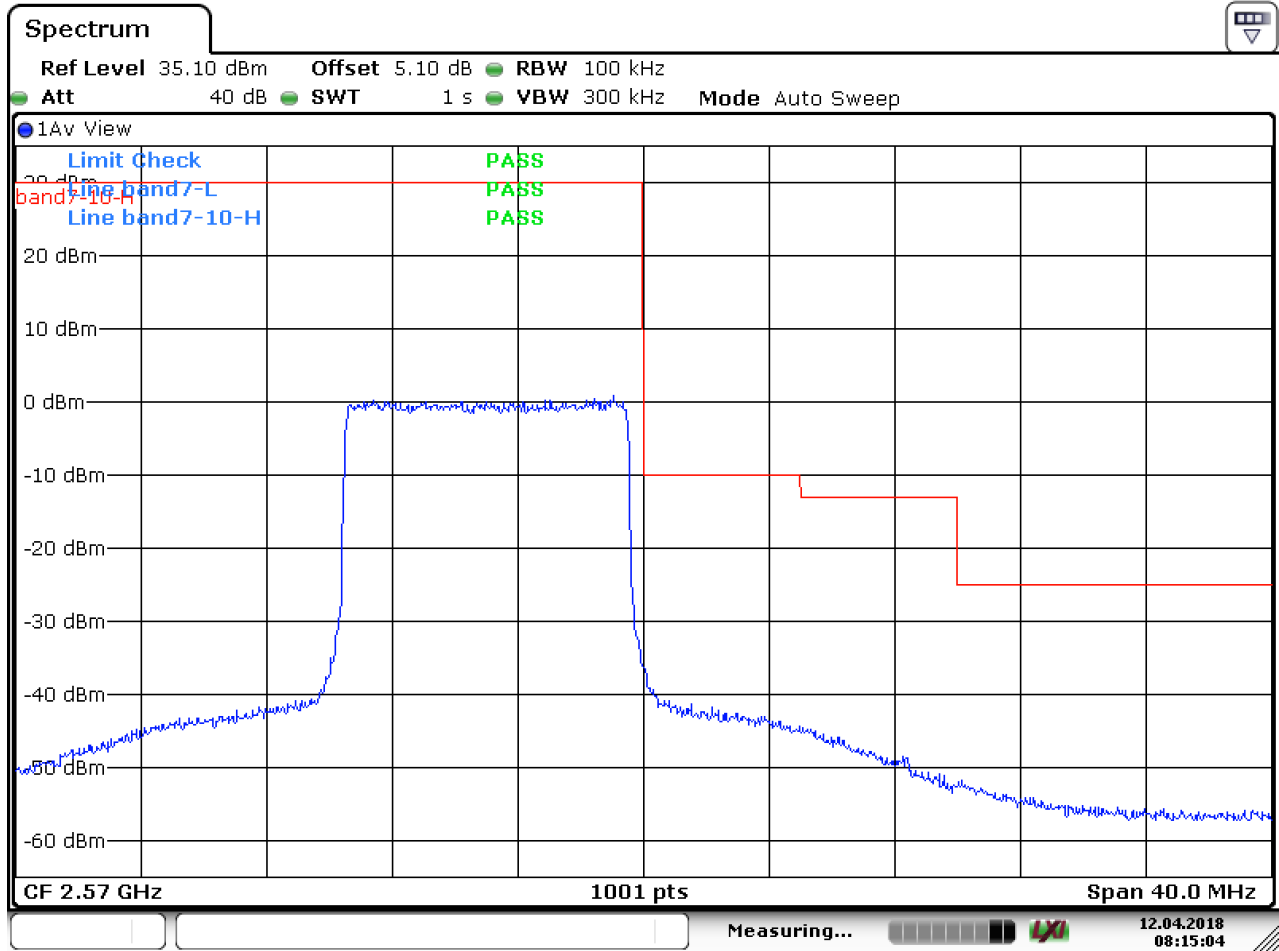
5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB#High



Date: 12.APR.2018 08:15:31

5.1.1.4.2.2 Test RB=FullRBs



Date: 12.APR.2018 08:15:05

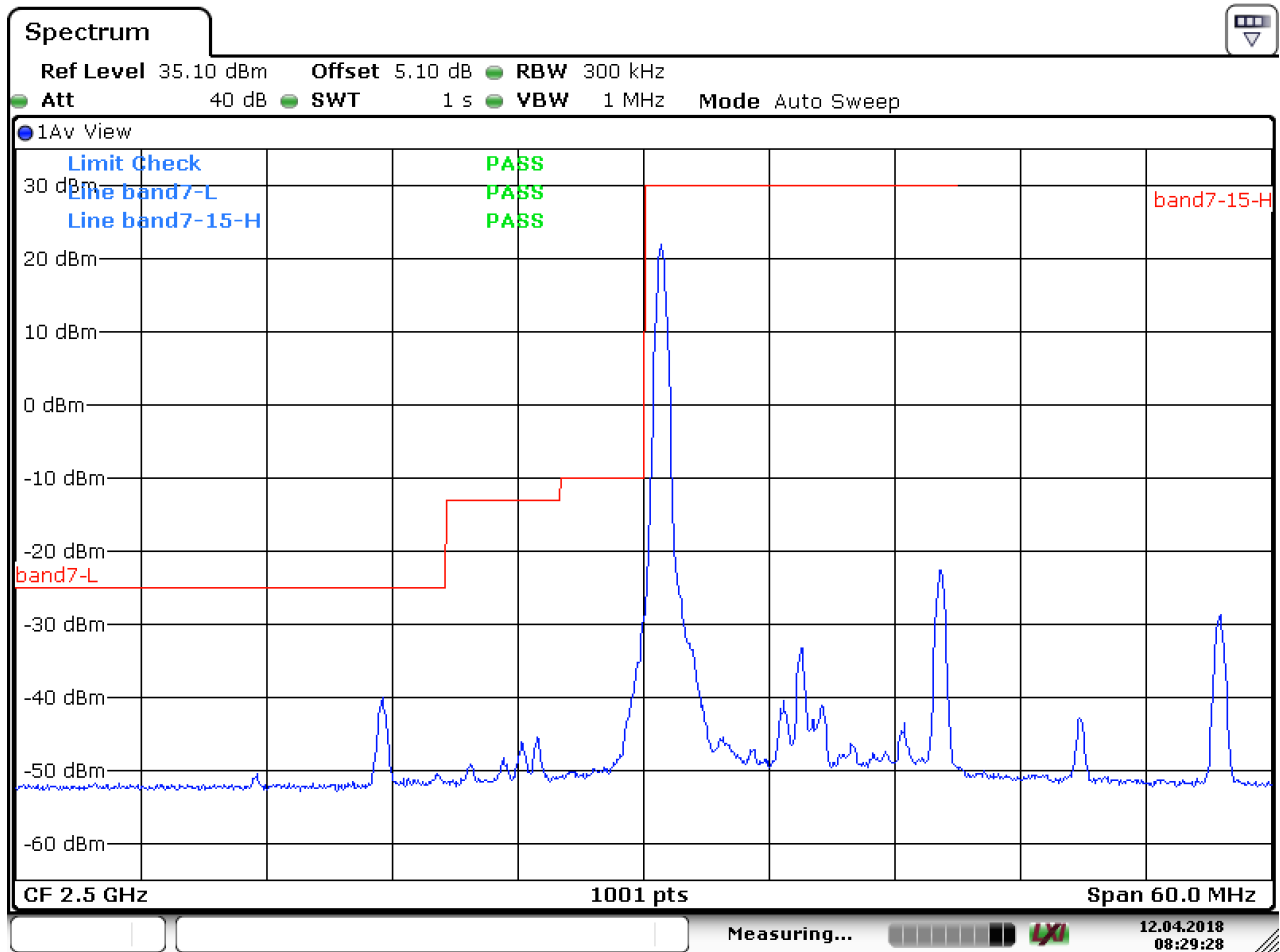
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5.1.1.5 Test Mode = LTE/TM1 15MHz

5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB#Low

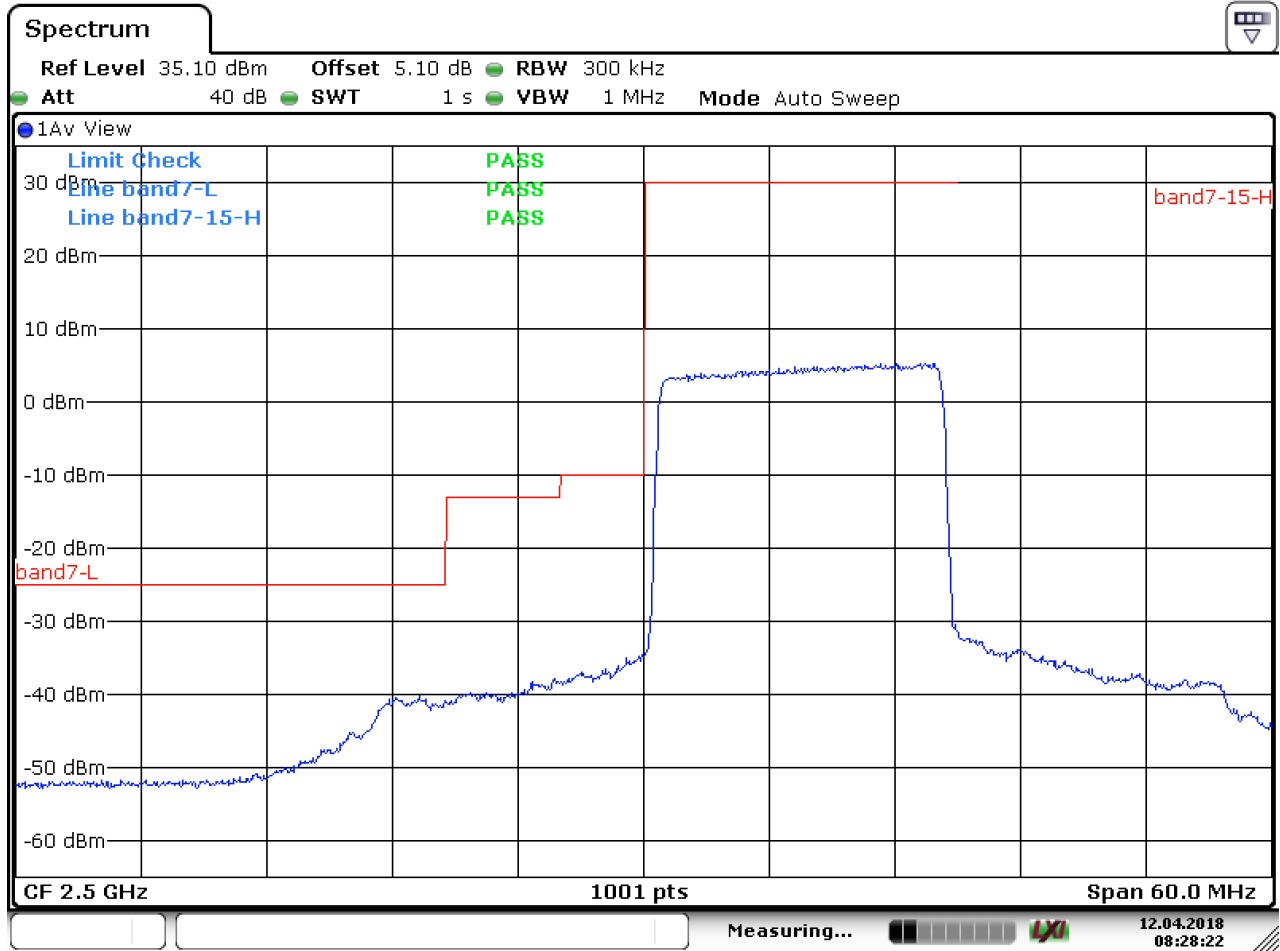


Date: 12.APR.2018 08:29:28

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5.1.1.5.1.2 Test RB=FullRBs

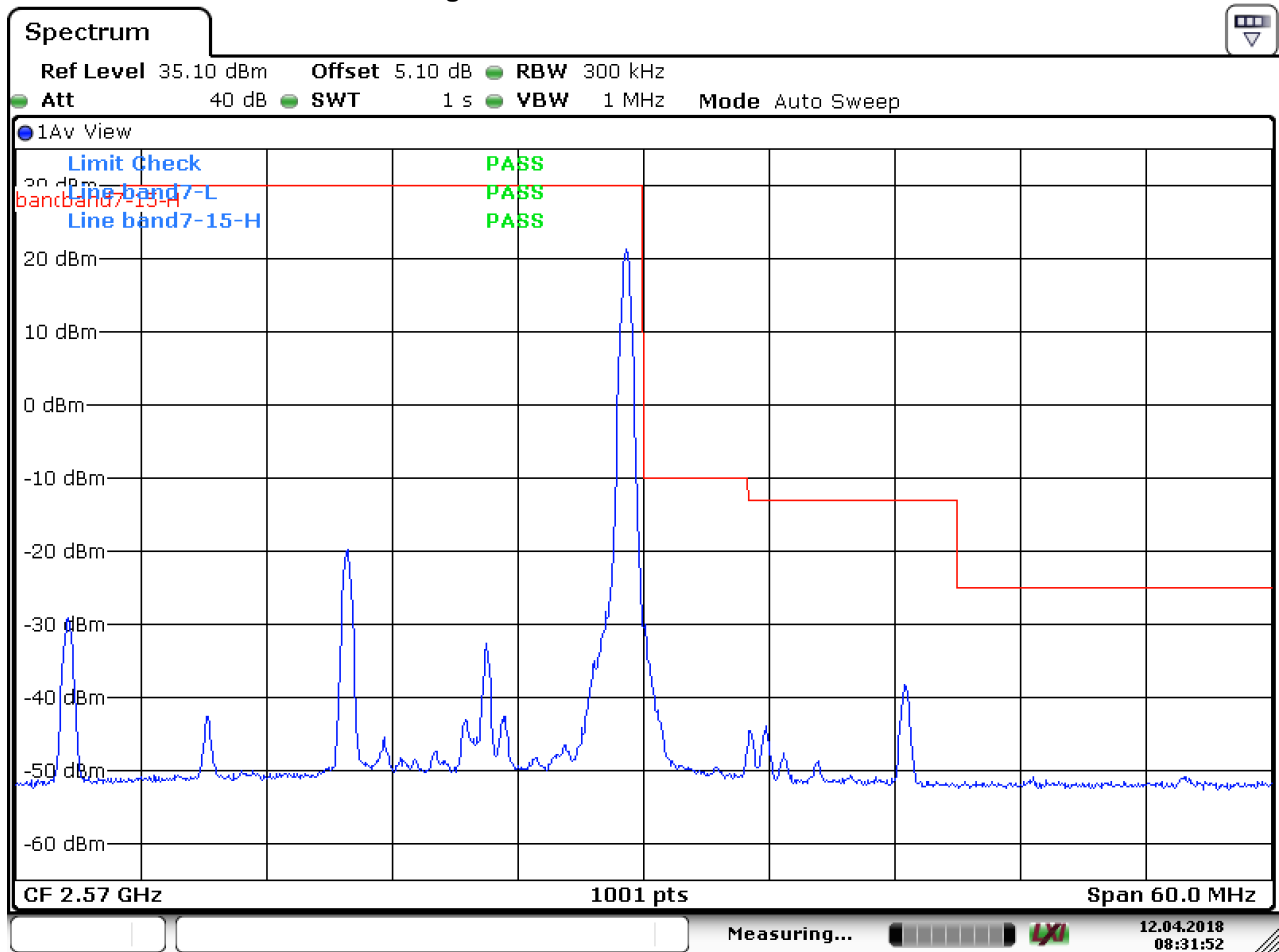


Date: 12.APR.2018 08:28:23

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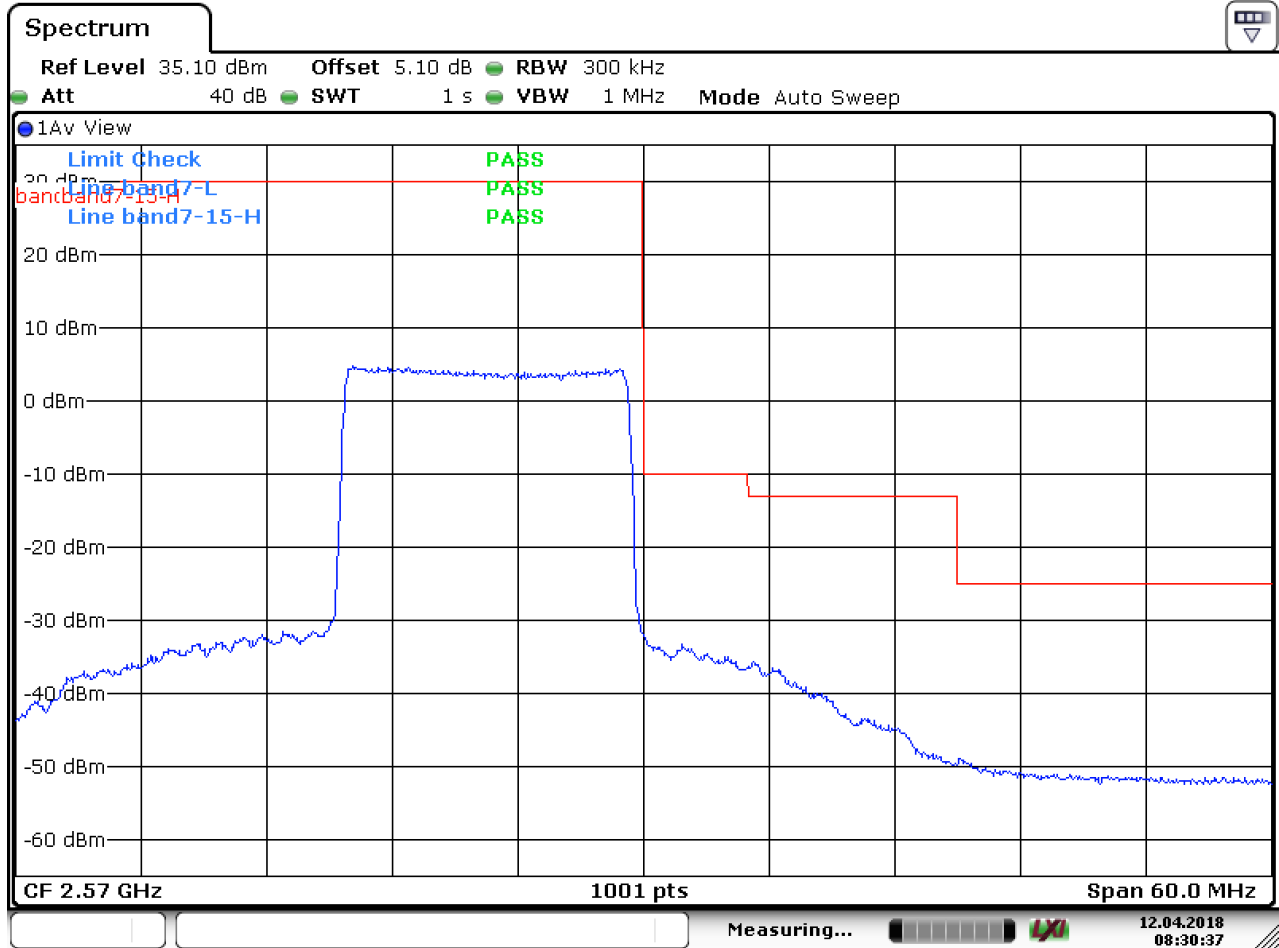
5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB#High



Date: 12.APR.2018 08:31:52

5.1.1.5.2.2 Test RB=FullRBs



Date: 12.APR.2018 08:30:38

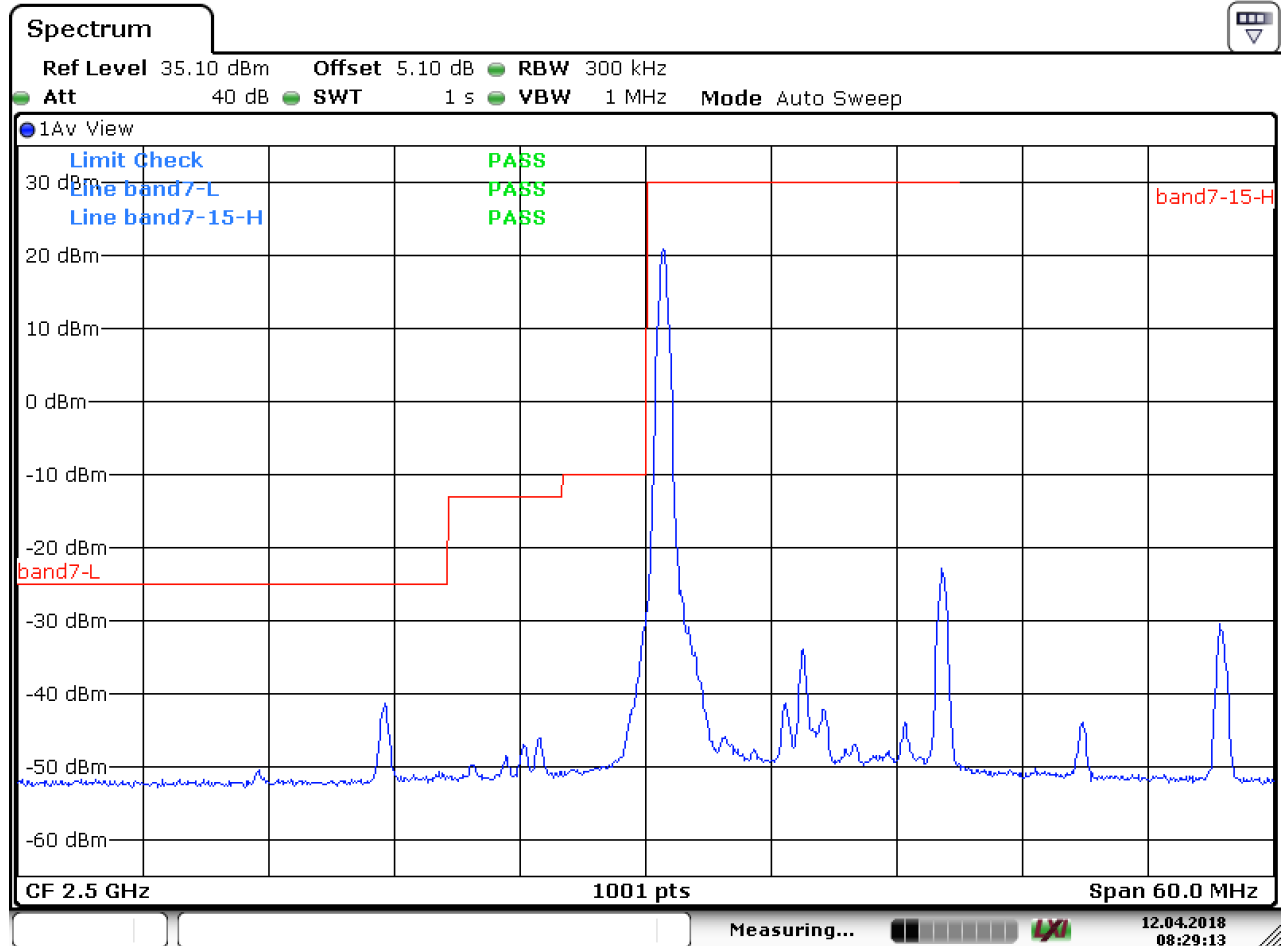
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5.1.1.6 Test Mode = LTE/TM2 15MHz

5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB#Low



Date: 12.APR.2018 08:29:13



5.1.1.6.1.2 Test RB=FullRBs

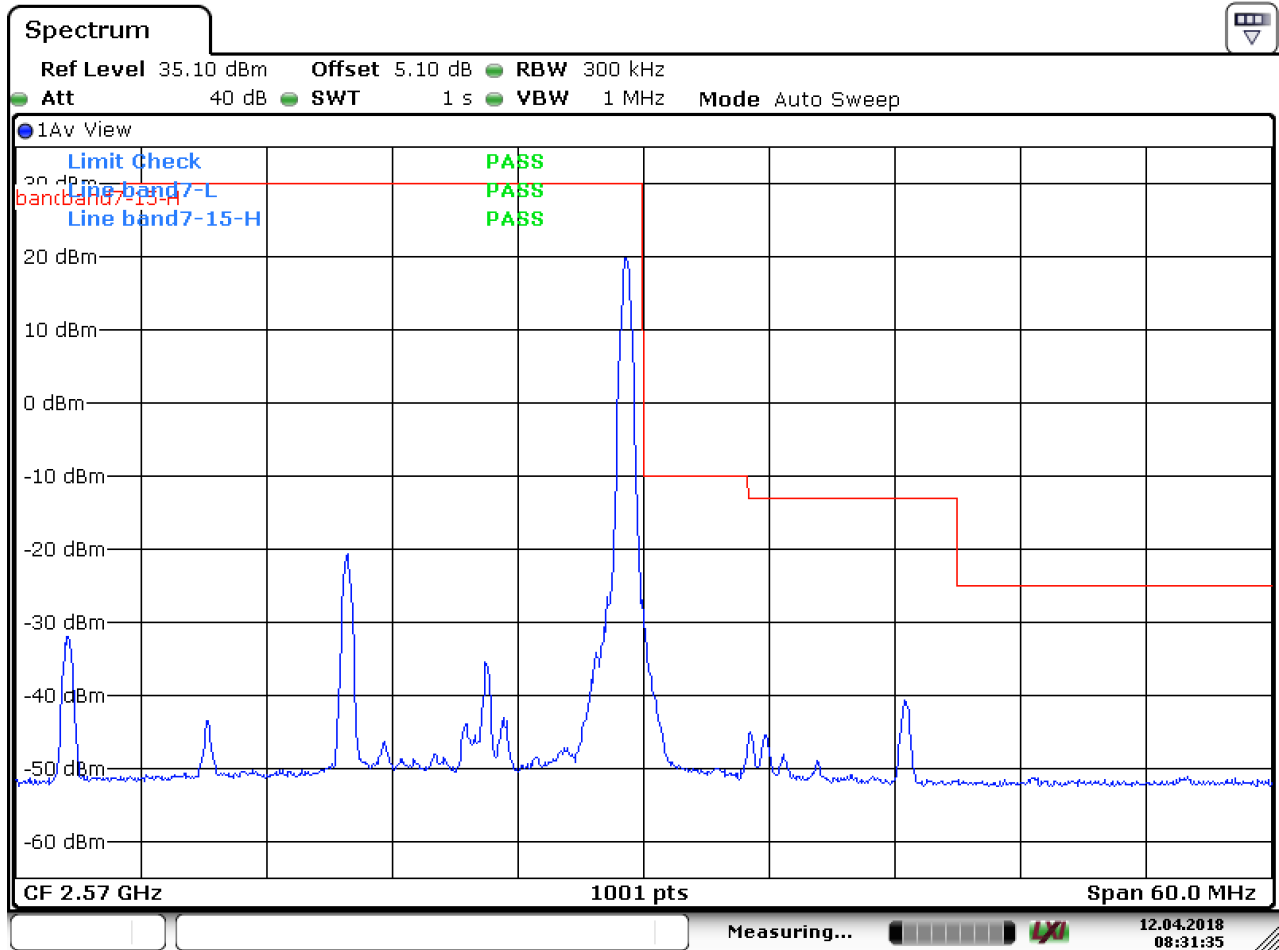


Date: 12.APR.2018 08:28:52

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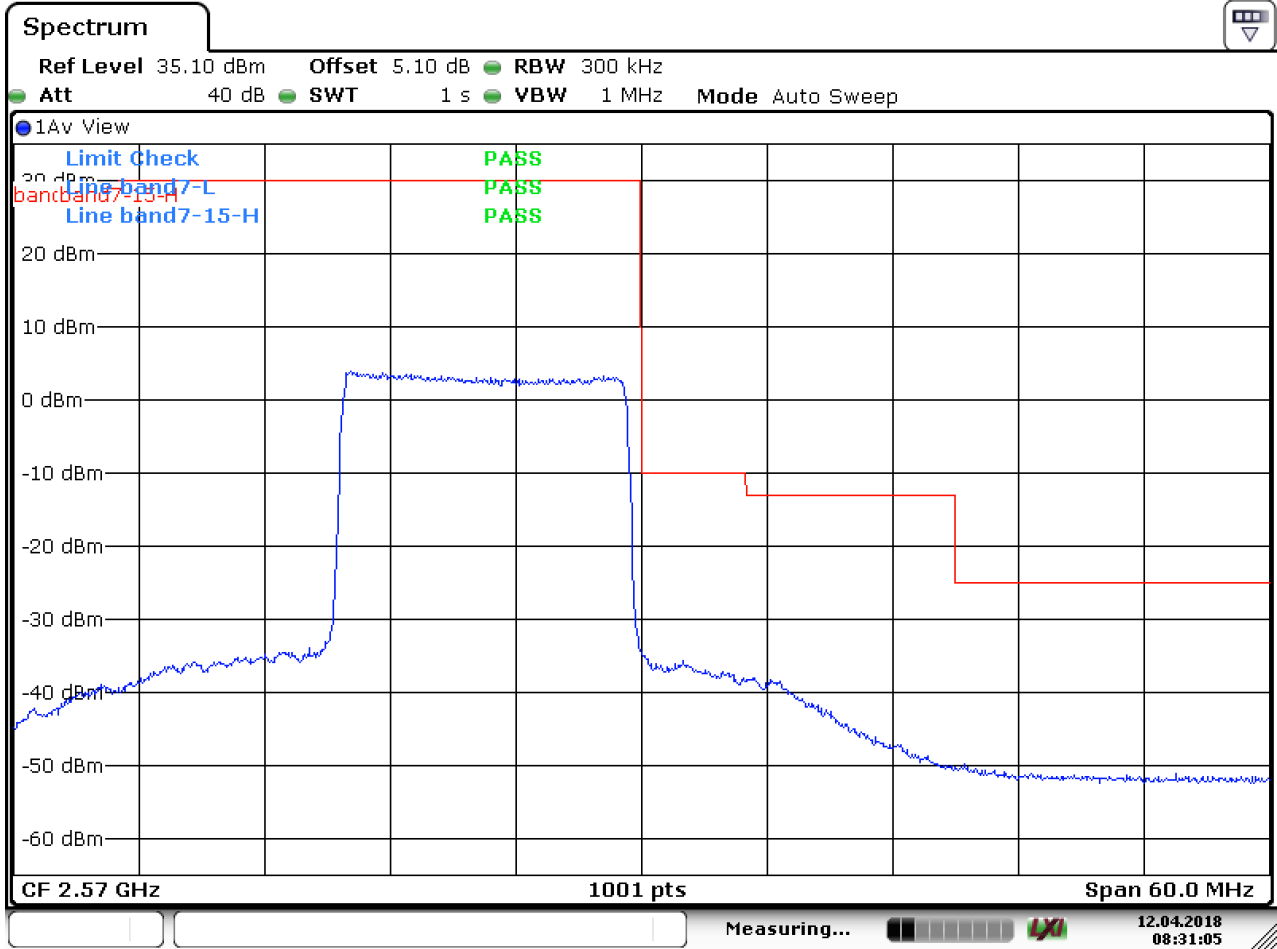
5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB#High



Date: 12.APR.2018 08:31:35

5.1.1.6.2.2 Test RB=FullRBs



Date: 12.APR.2018 08:31:05

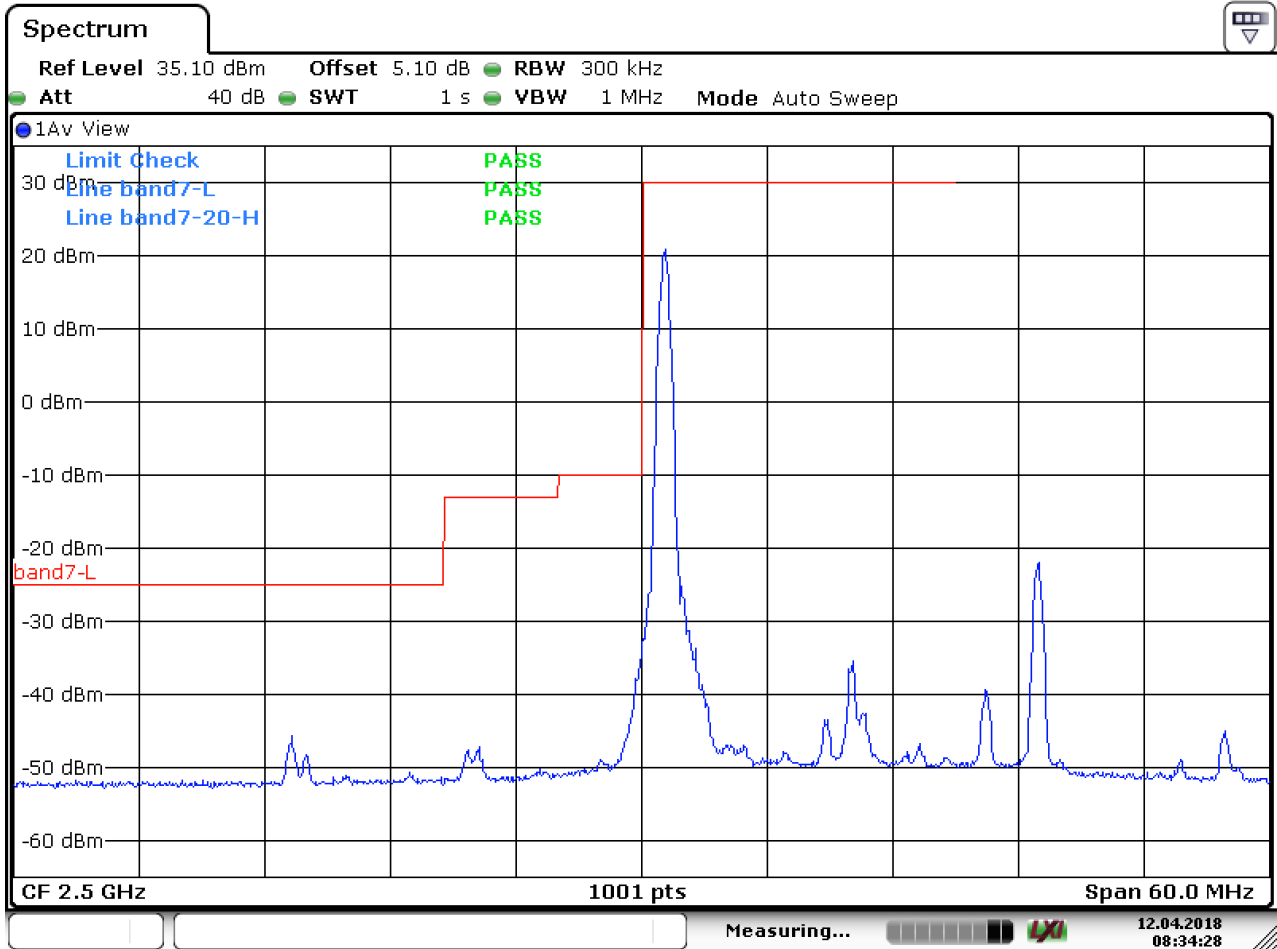
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5.1.1.7 Test Mode = LTE/TM1 20MHz

5.1.1.7.1 Test Channel = LCH

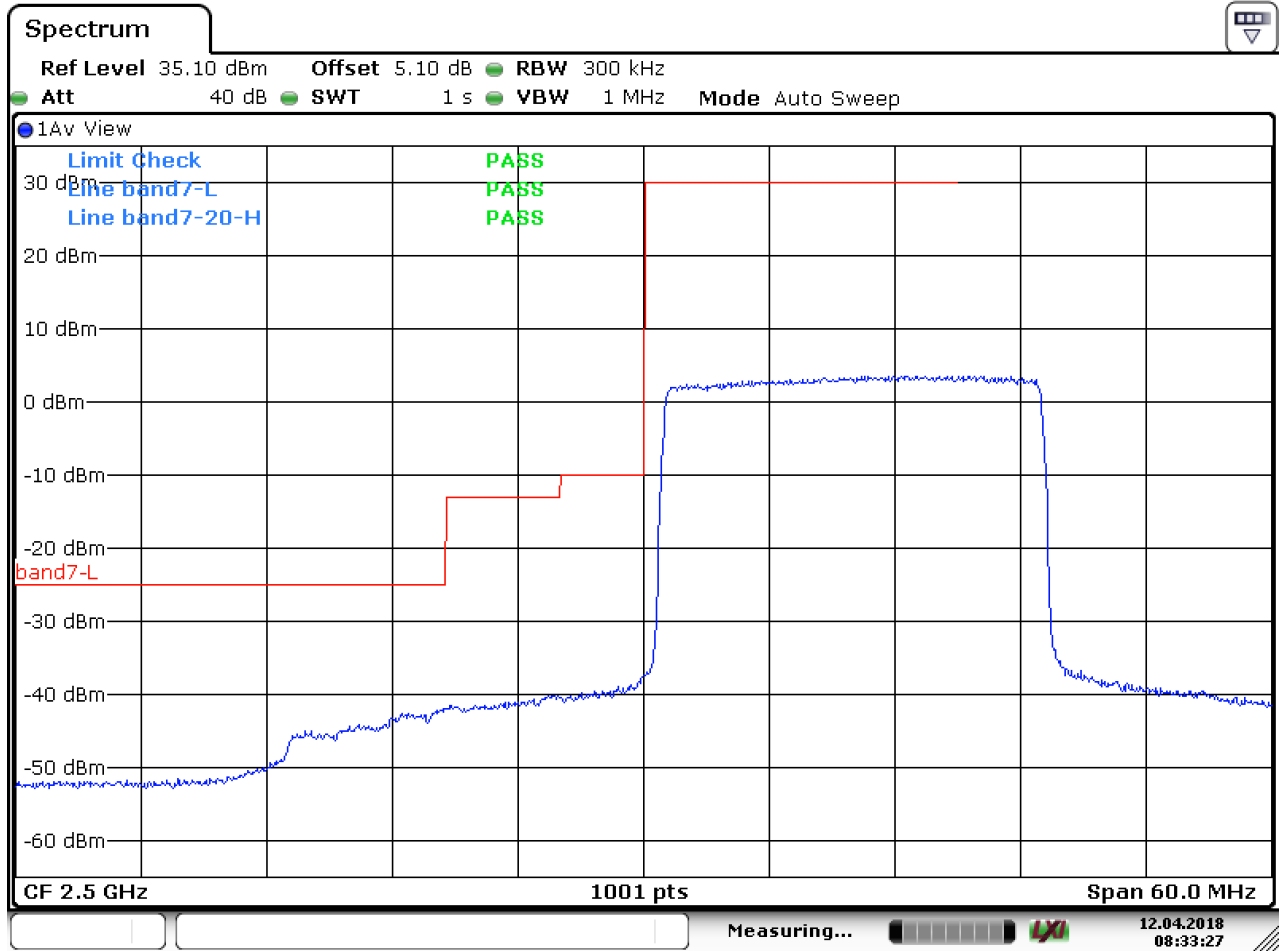
5.1.1.7.1.1 Test RB=1RB#Low



Date: 12.APR.2018 08:34:29



5.1.1.7.1.2 Test RB=FullRBs

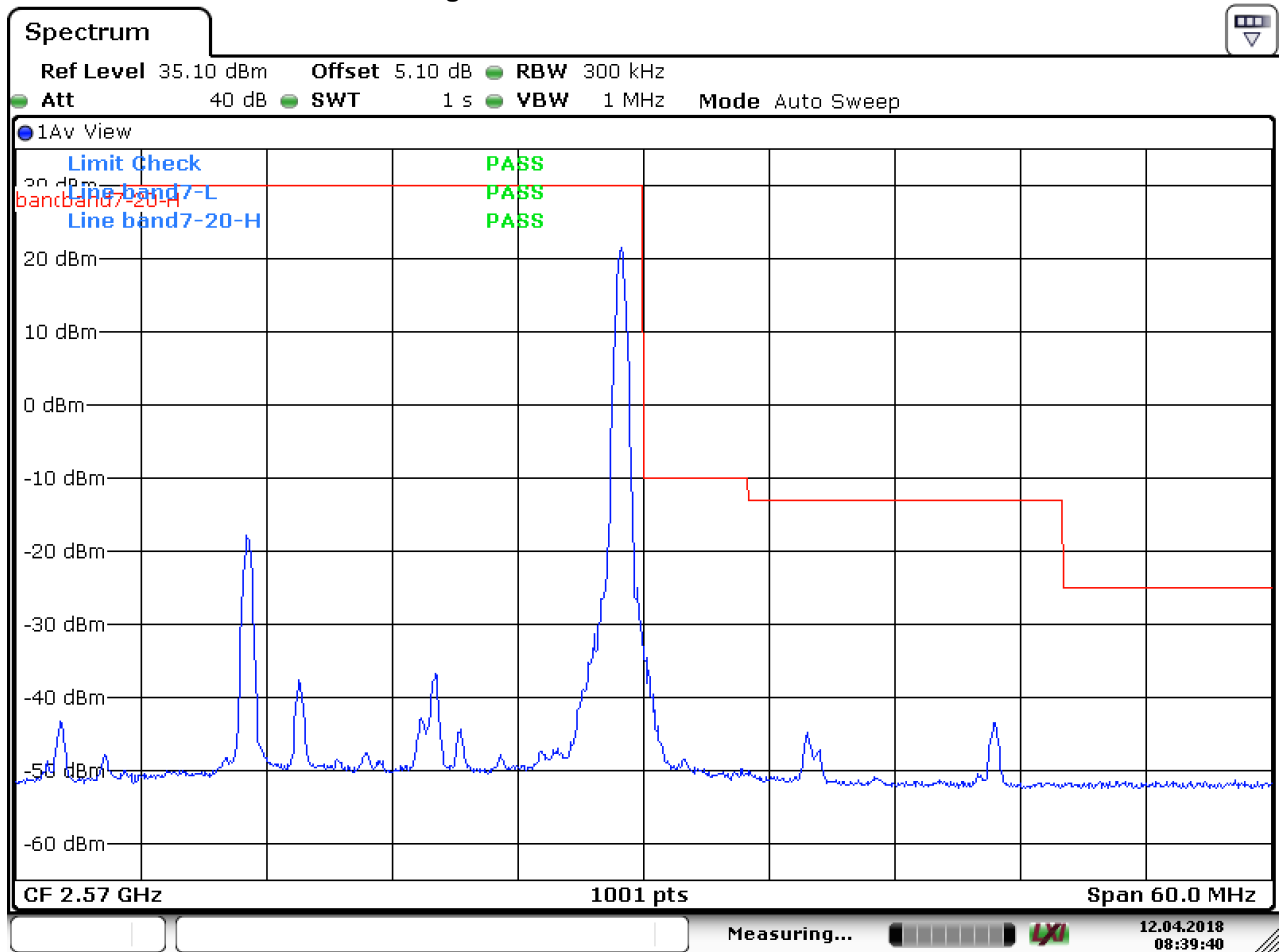


Date: 12.APR.2018 08:33:28



5.1.1.7.2 Test Channel = HCH

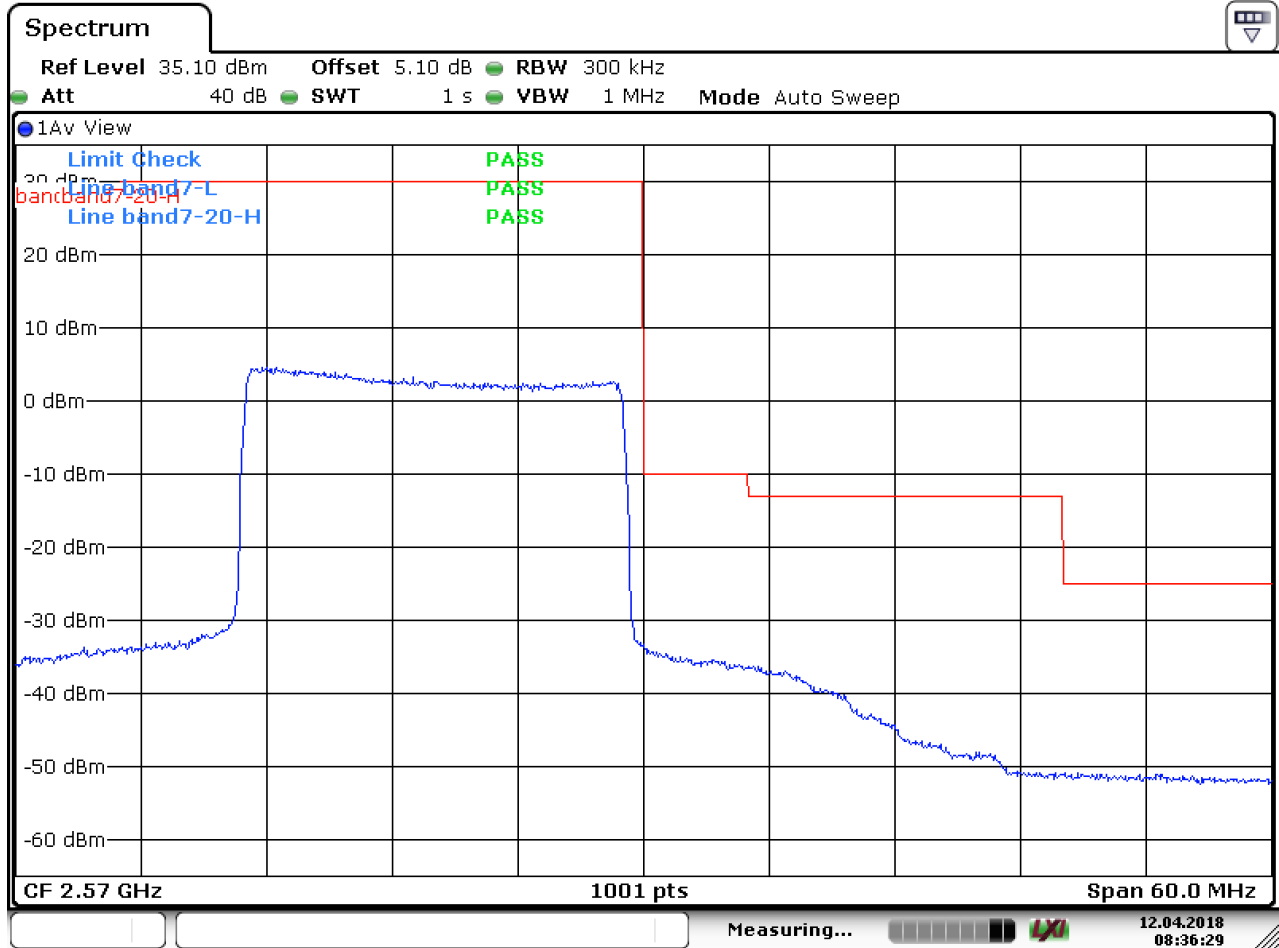
5.1.1.7.2.1 Test RB=1RB#High



Date: 12.APR.2018 08:39:40



5.1.1.7.2.2 Test RB=FullRBs



Date: 12.APR.2018 08:36:30

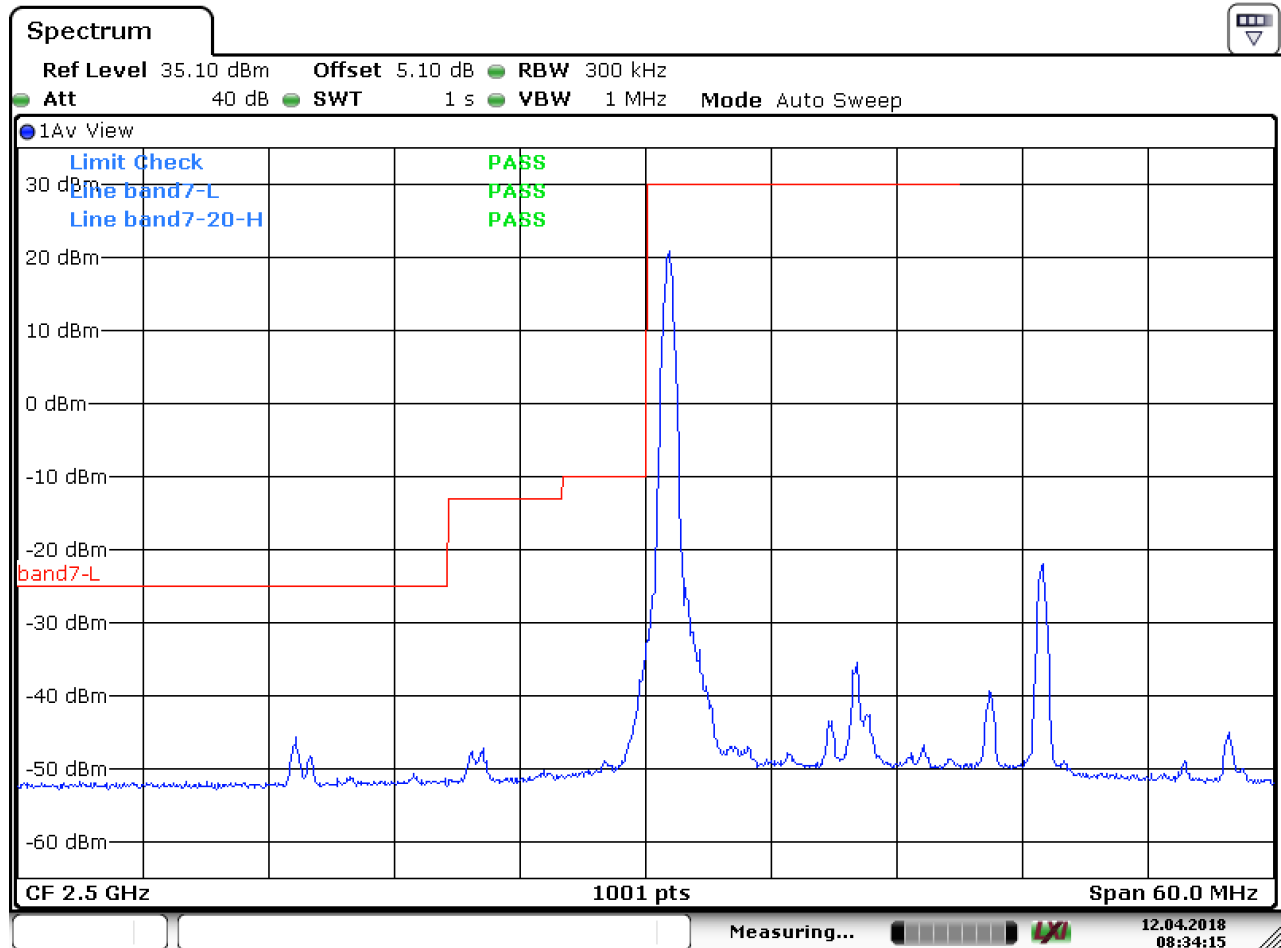
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5.1.1.8 Test Mode = LTE/TM2 20MHz

5.1.1.8.1 Test Channel = LCH

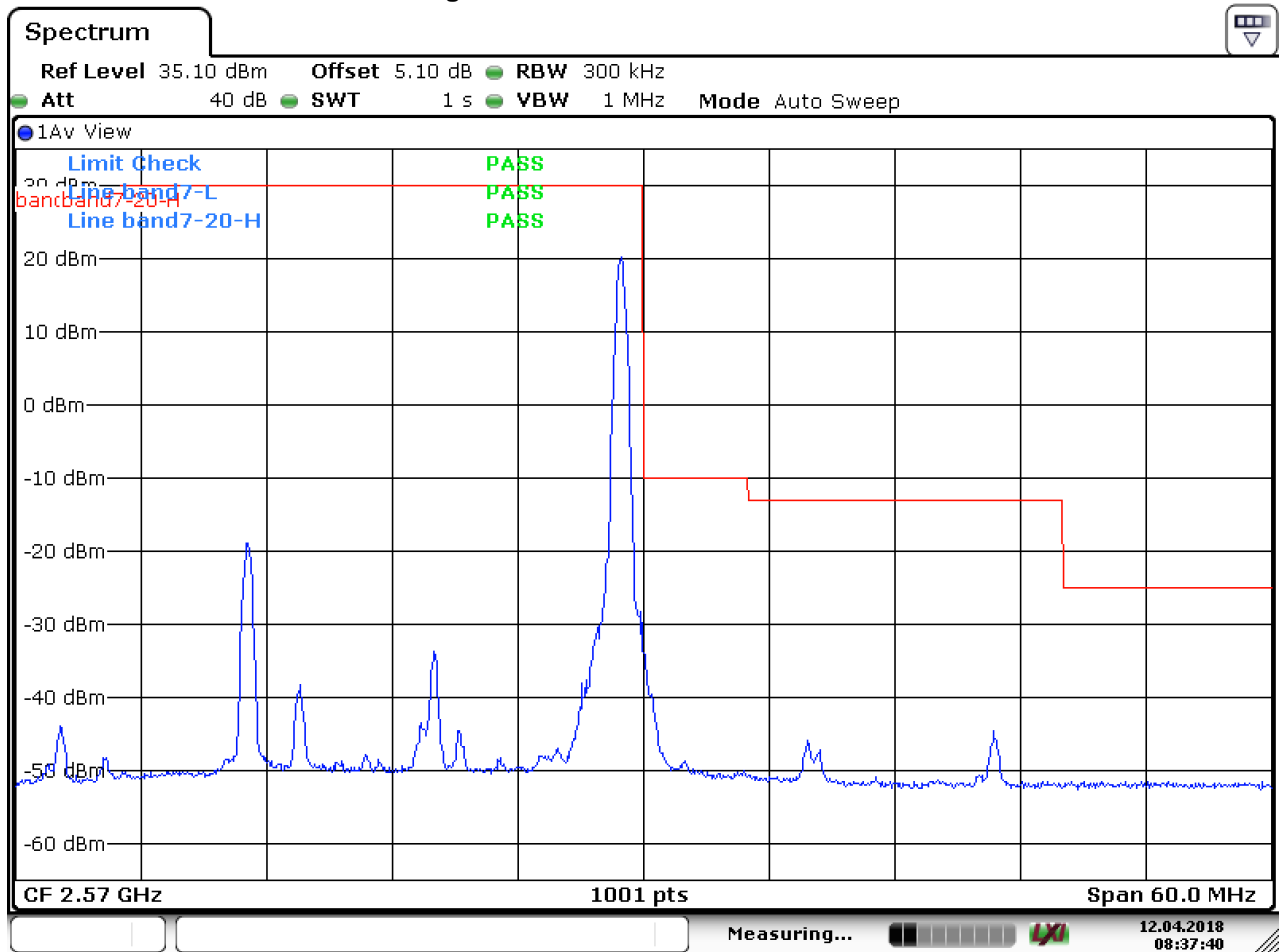
5.1.1.8.1.1 Test RB=1RB#Low



Date: 12.APR.2018 08:34:16

5.1.1.8.2 Test Channel = HCH

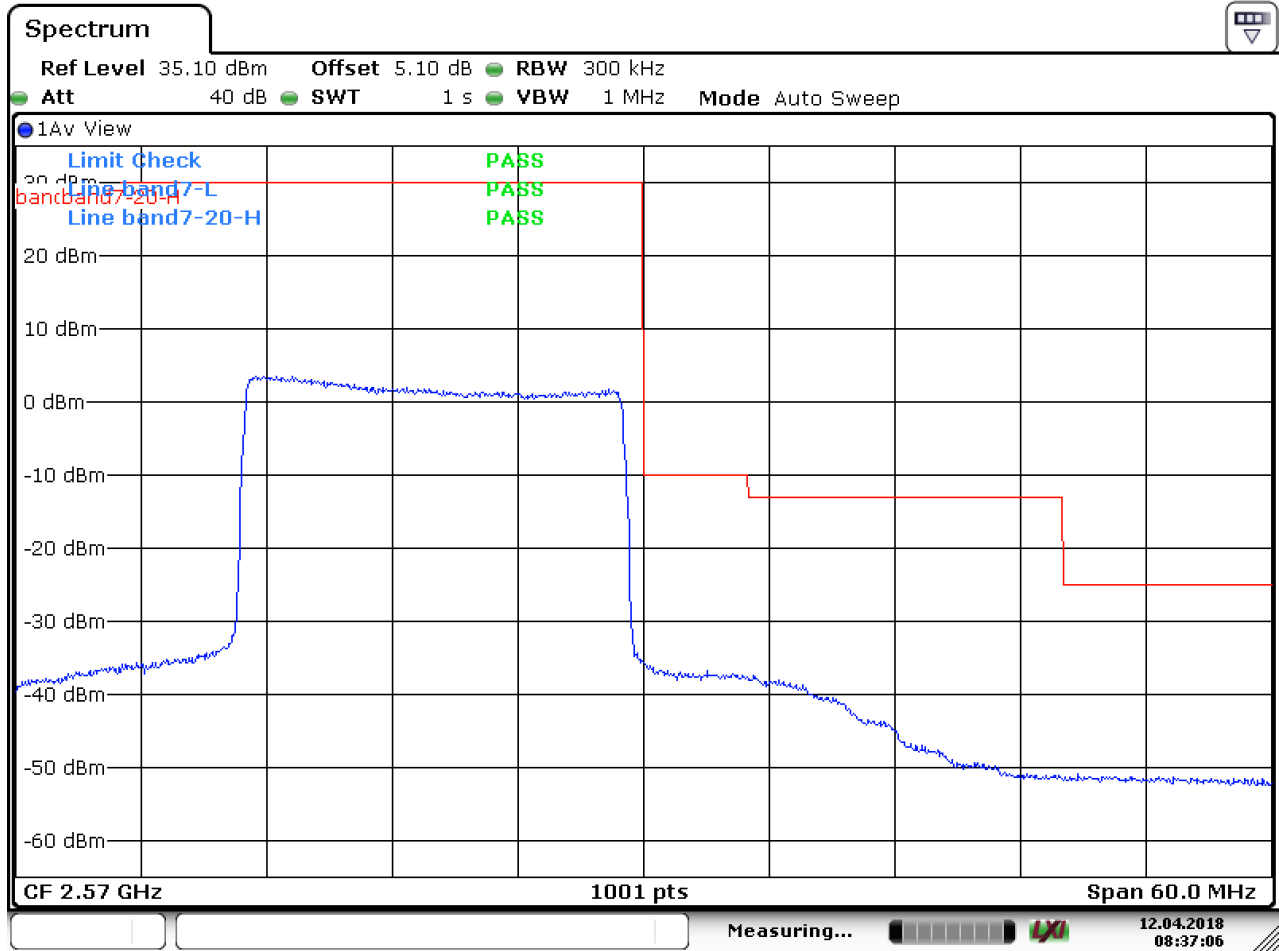
5.1.1.8.2.1 Test RB=1RB#High



Date: 12.APR.2018 08:37:40



5.1.1.8.2.2 Test RB=FullRBs



Date: 12.APR.2018 08:37:07

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6 Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

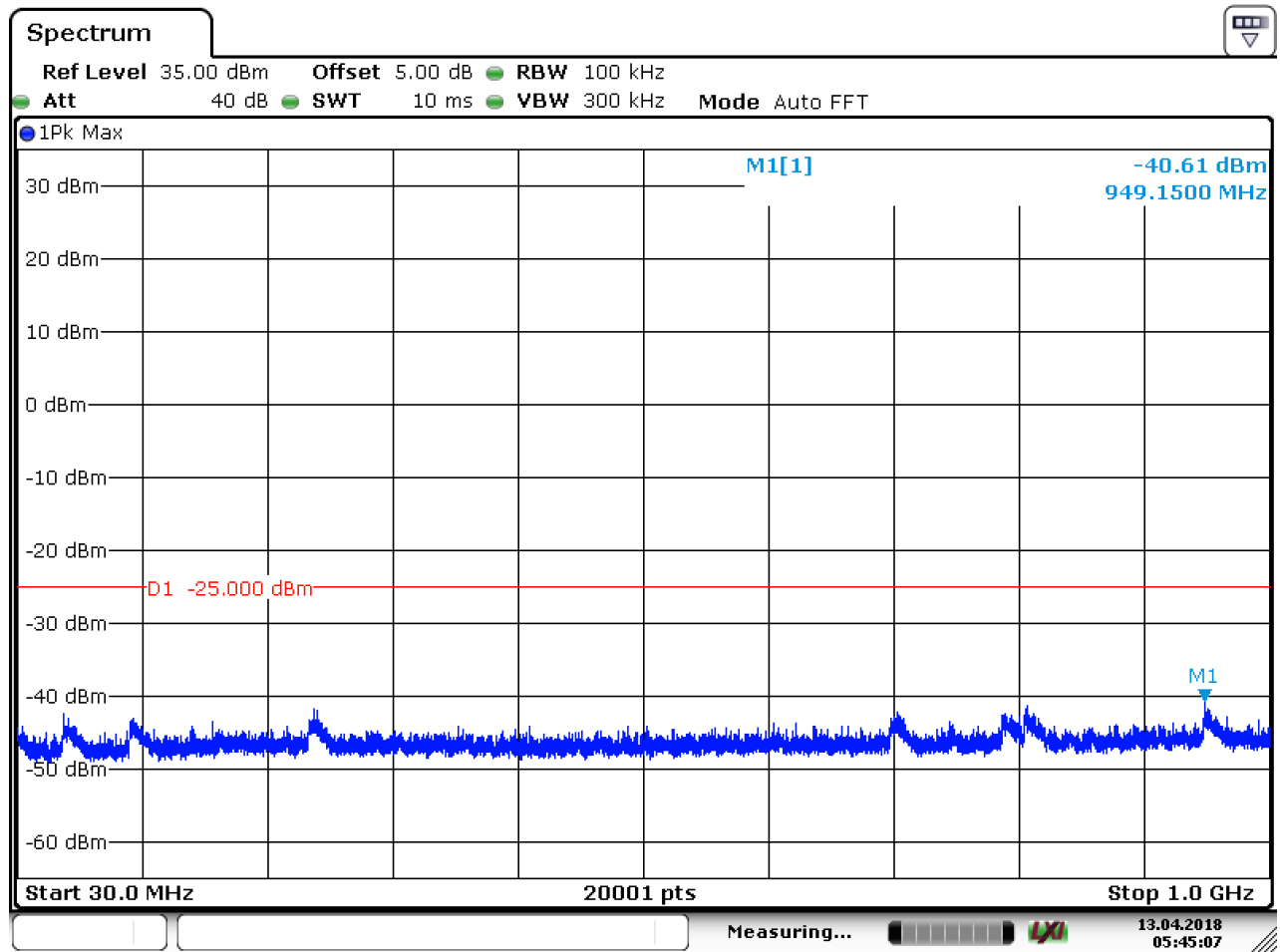
Part I - Test Plots

6.1 For LTE

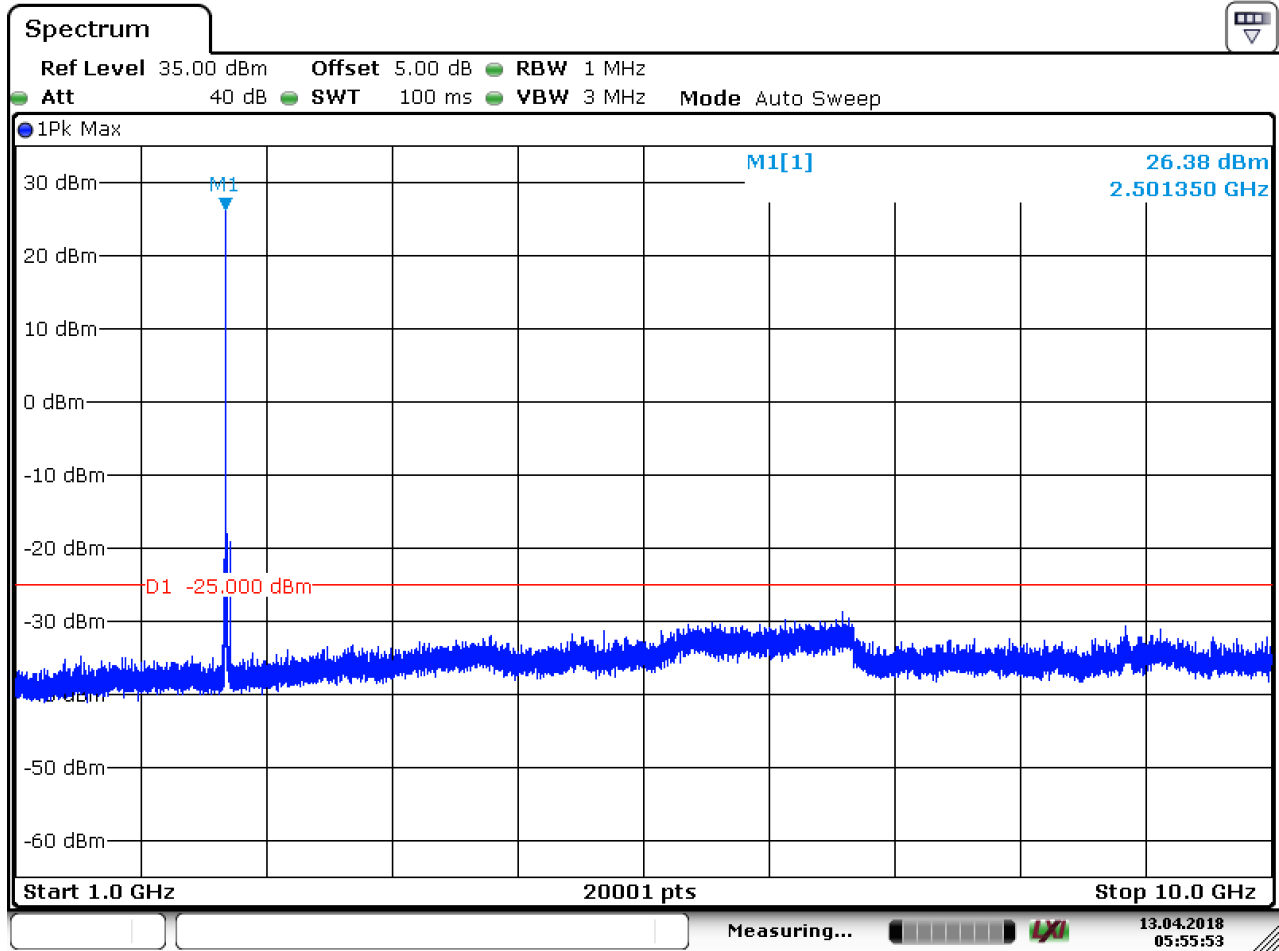
6.1.1 Test Band = LTE BAND 7

6.1.1.1 Test Mode = LTE / TM1 20MHz RB1#0

6.1.1.1.1 Test Channel = LCH

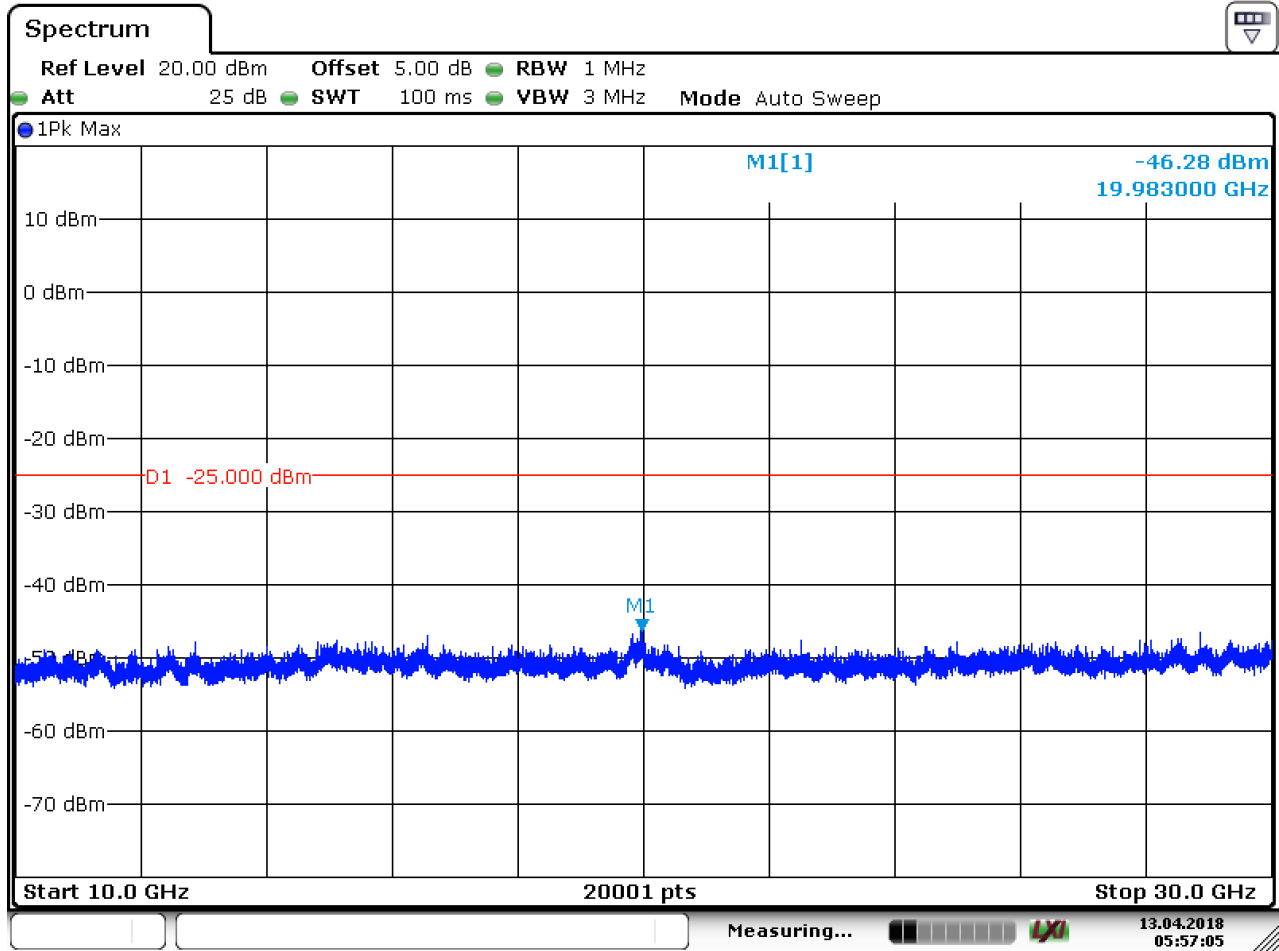


Date: 13.APR.2018 05:45:07



Date: 13.APR.2018 05:55:53

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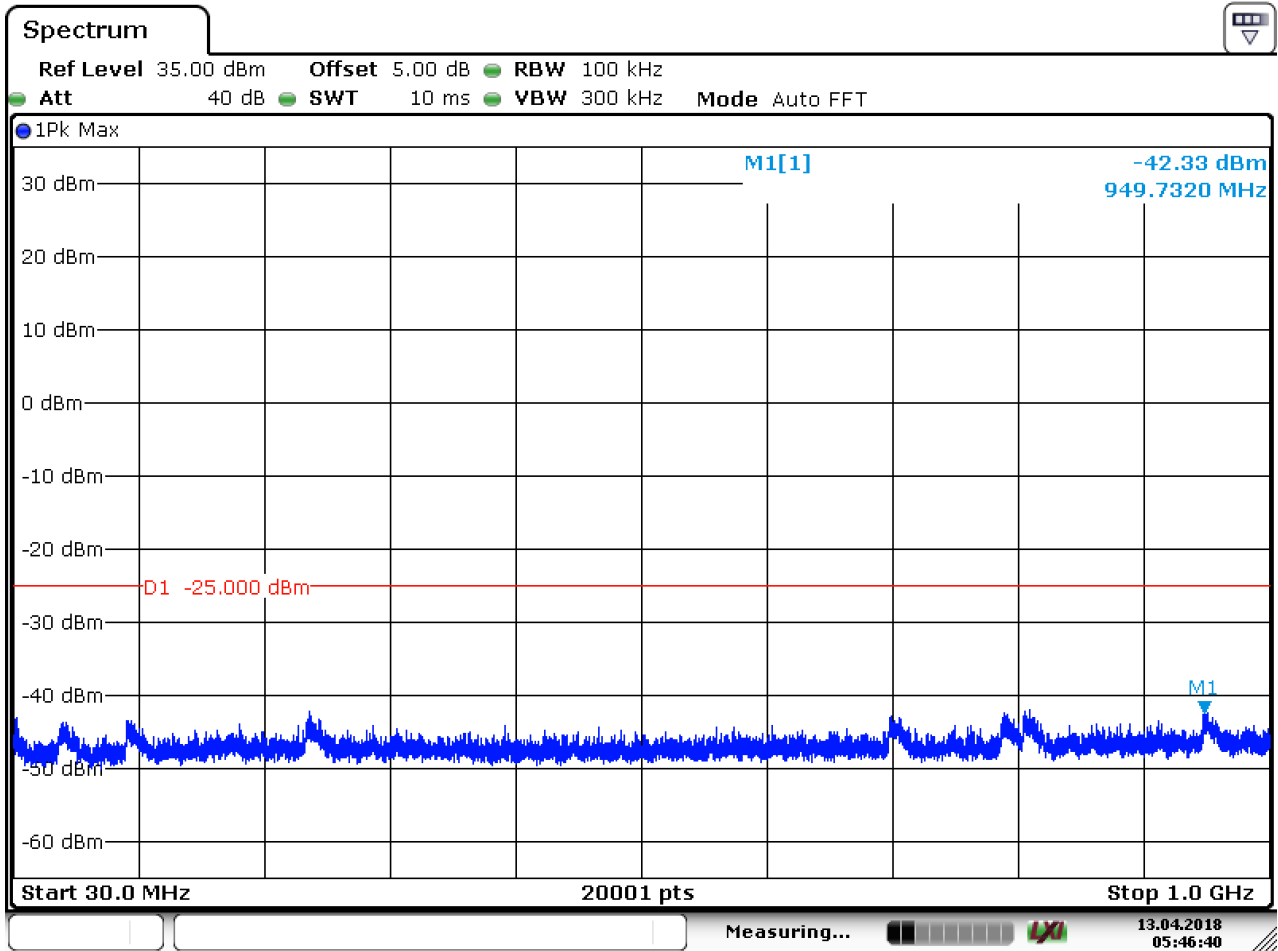


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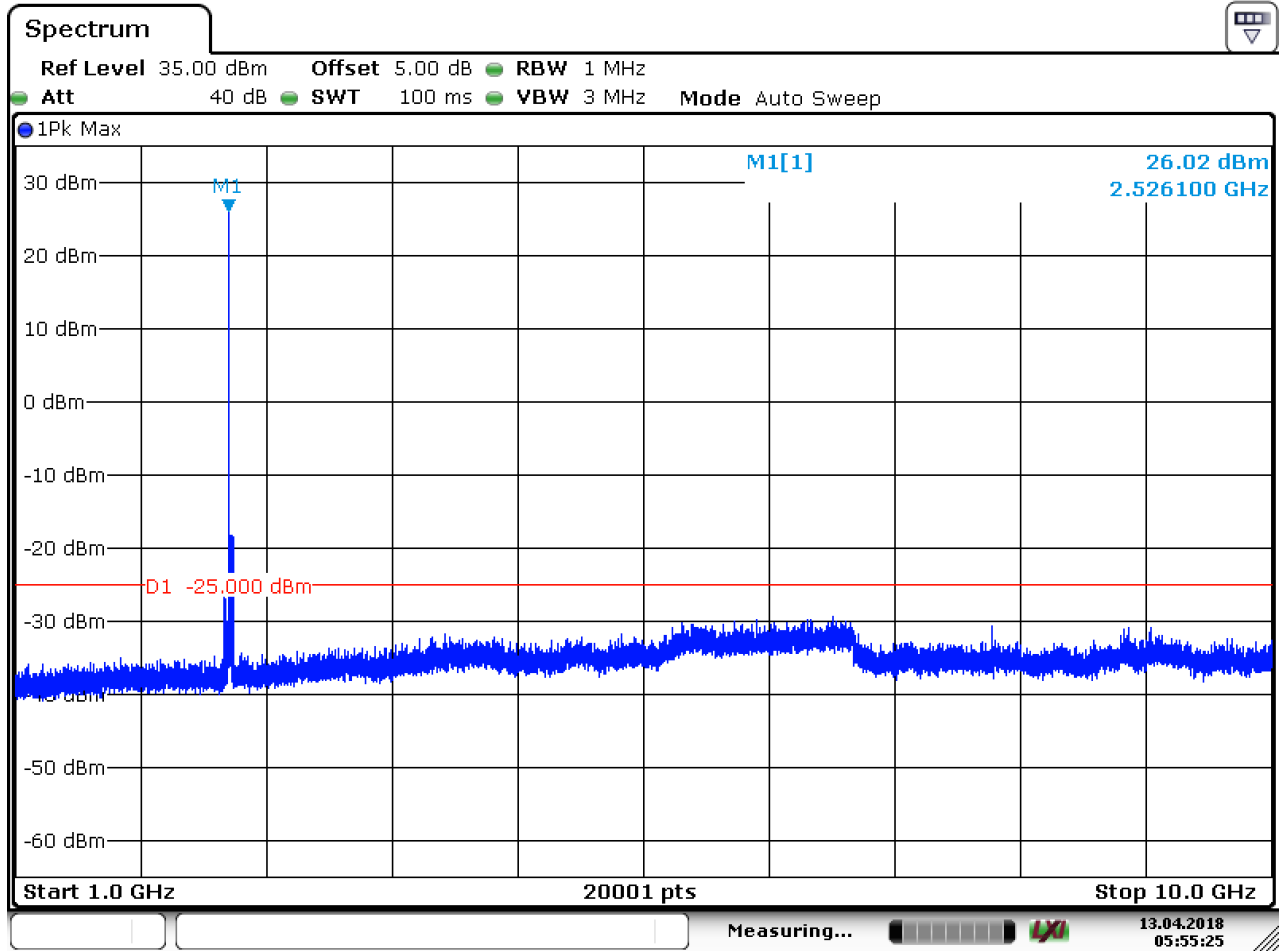


6.1.1.1.2 Test Channel = MCH



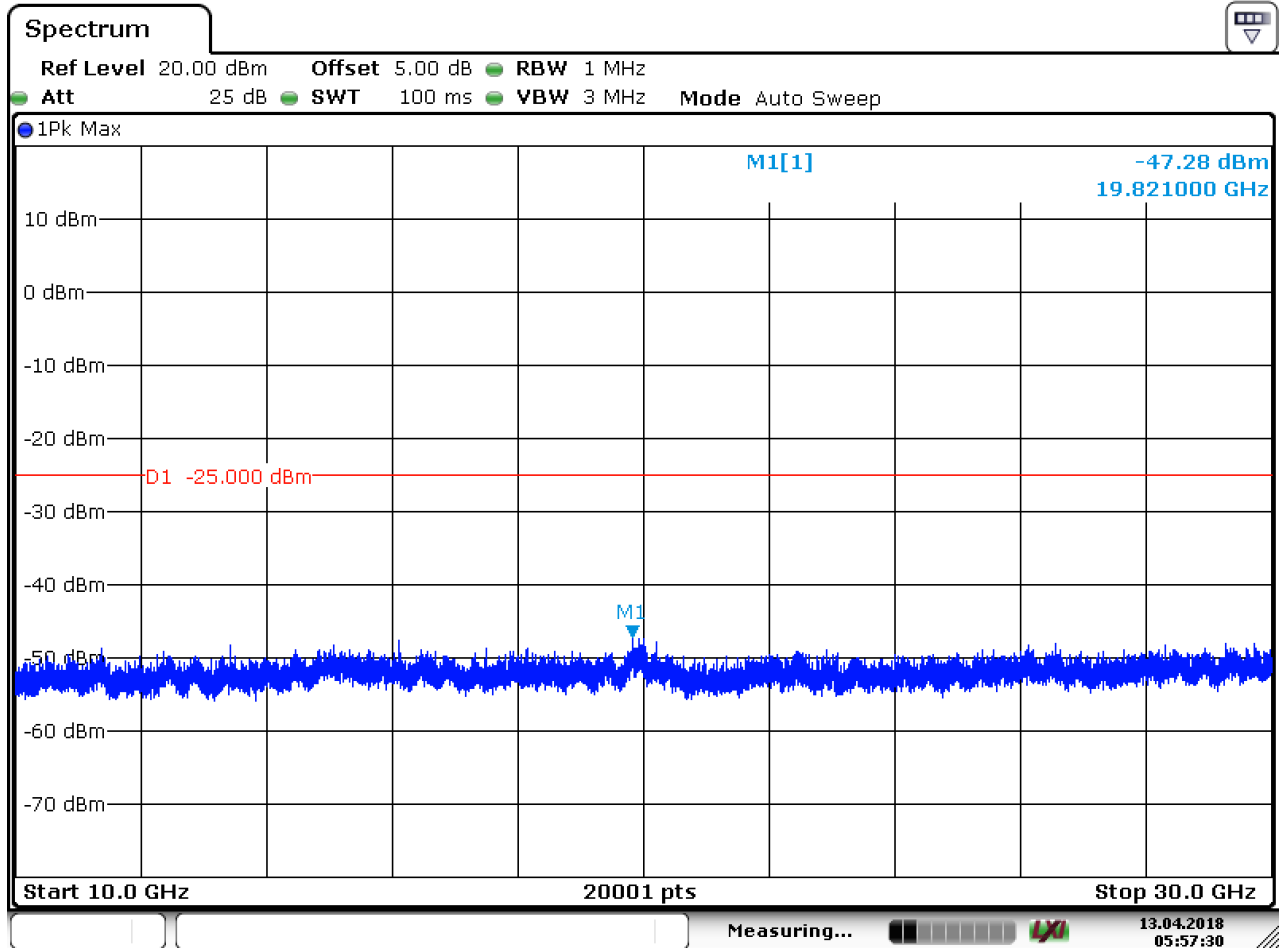
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Date: 13.APR.2018 05:55:25

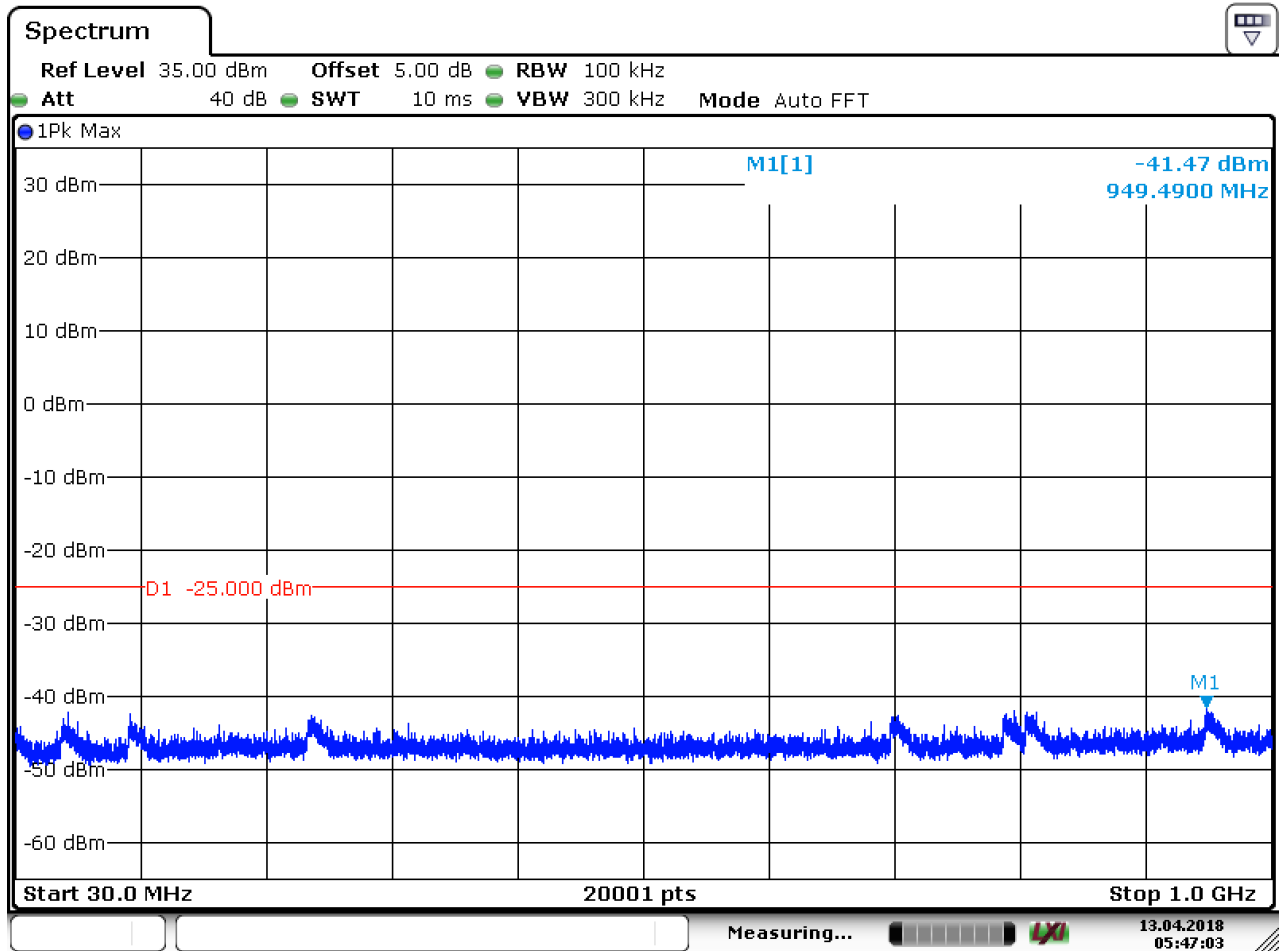
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Date: 13.APR.2018 05:57:30

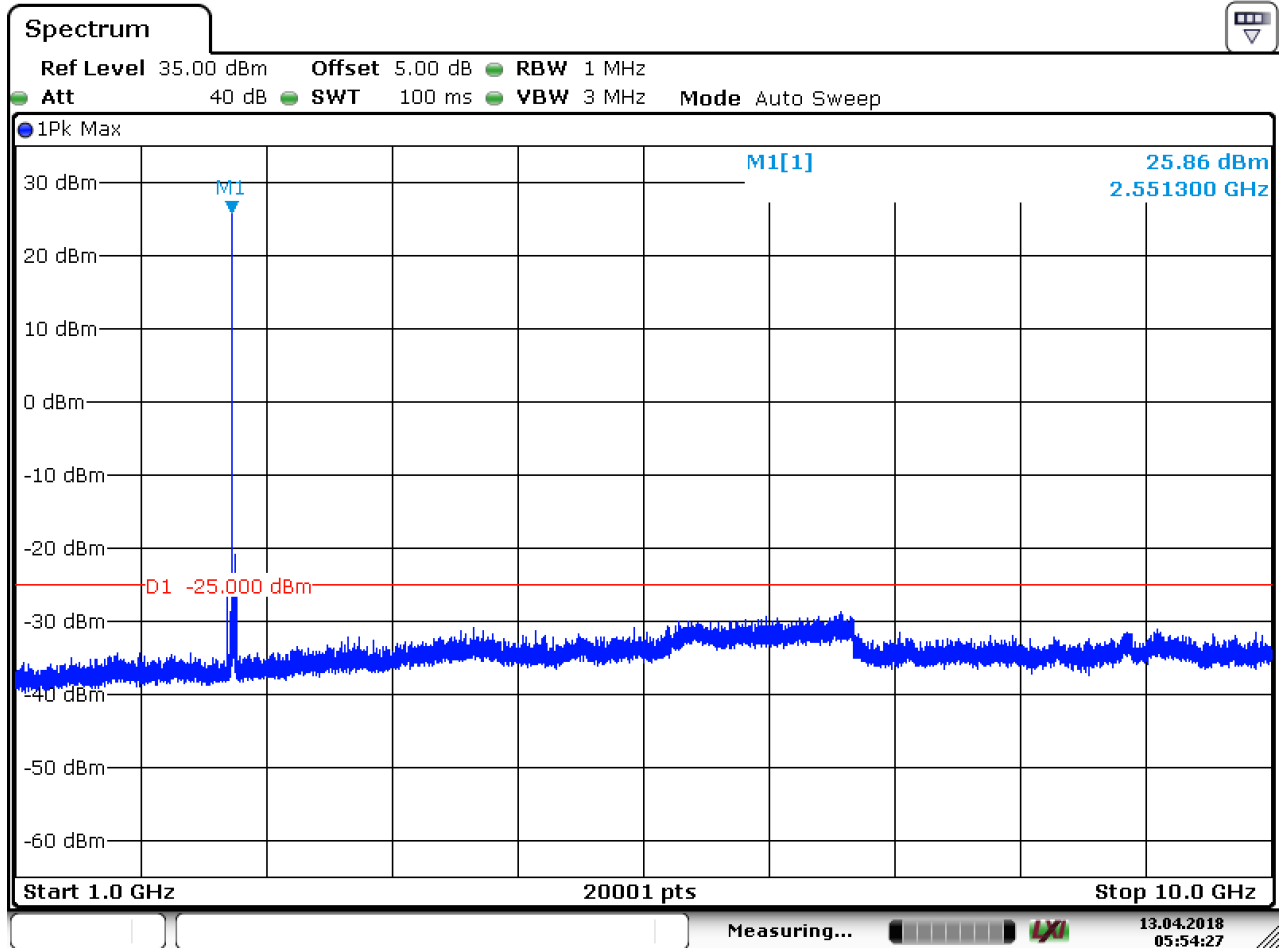


6.1.1.1.3 Test Channel = HCH



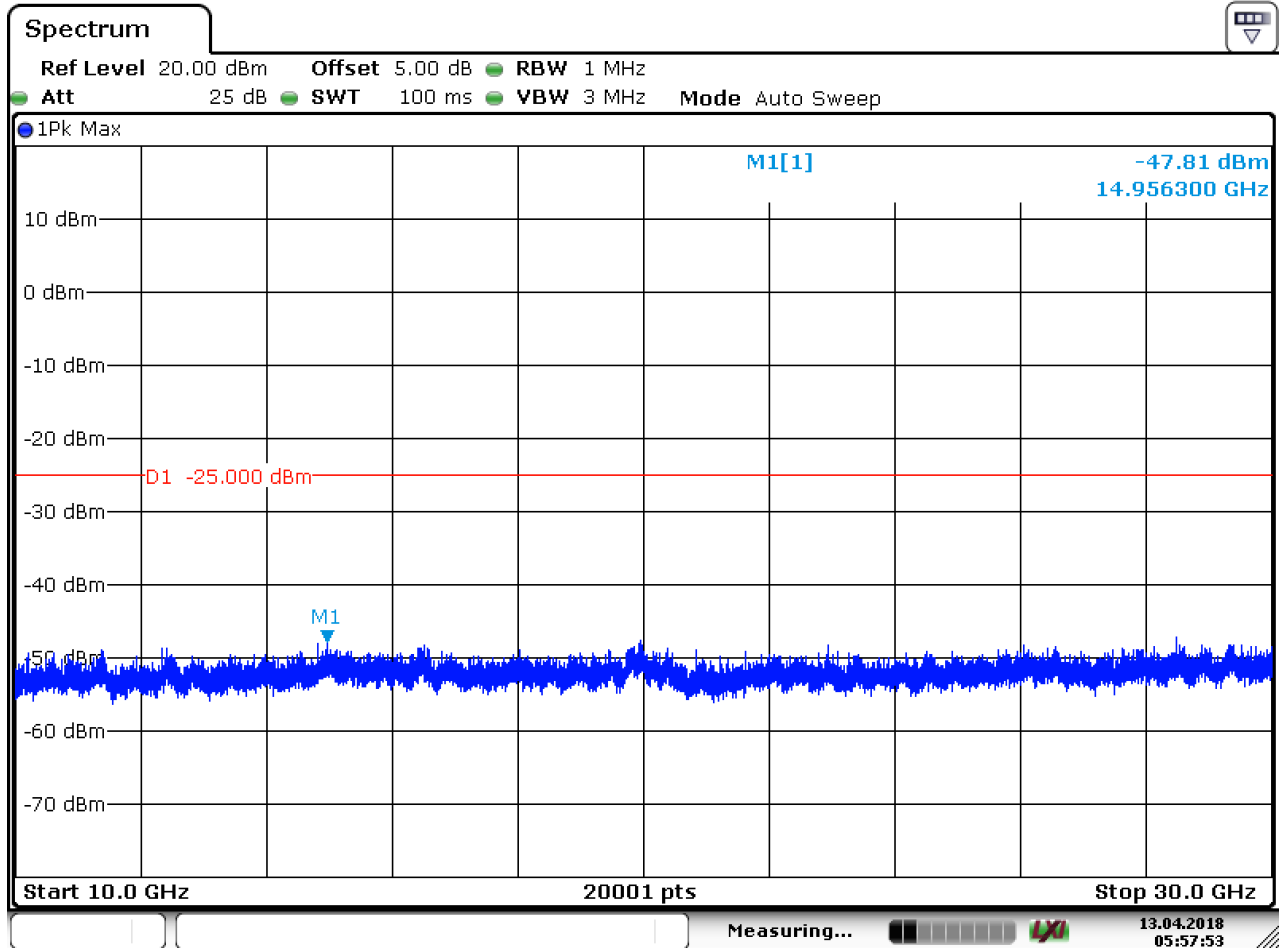
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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE BAND 7

7.1.1.1 Test Mode =LTE/TM1 20MHz RB1#0

7.1.1.1.1 Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 65.000000 | -82.33 | -25.00 | 57.33 | Vertical |
| 124.950000 | -86.54 | -25.00 | 61.54 | Vertical |
| 1213.000000 | -66.30 | -25.00 | 41.30 | Vertical |
| 5002.000000 | -58.04 | -25.00 | 33.04 | Vertical |
| 7503.200000 | -56.26 | -25.00 | 31.26 | Vertical |
| 10004.400000 | -61.25 | -25.00 | 36.25 | Vertical |
| 62.150000 | -78.21 | -25.00 | 53.21 | Horizontal |
| 104.300000 | -82.35 | -25.00 | 57.35 | Horizontal |
| 1101.500000 | -66.65 | -25.00 | 41.65 | Horizontal |
| 5002.000000 | -56.52 | -25.00 | 31.52 | Horizontal |
| 7503.200000 | -43.99 | -25.00 | 18.99 | Horizontal |
| 10004.400000 | -55.96 | -25.00 | 30.96 | Horizontal |

7.1.1.1.2 Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 64.150000 | -81.90 | -25.00 | 56.90 | Vertical |
| 125.000000 | -85.99 | -25.00 | 60.99 | Vertical |
| 1247.500000 | -66.48 | -25.00 | 41.48 | Vertical |
| 5171.000000 | -45.15 | -25.00 | 20.15 | Vertical |
| 7578.275000 | -58.14 | -25.00 | 33.14 | Vertical |
| 10104.500000 | -62.21 | -25.00 | 37.21 | Vertical |
| 63.200000 | -78.30 | -25.00 | 53.30 | Horizontal |
| 104.300000 | -82.64 | -25.00 | 57.64 | Horizontal |
| 1138.500000 | -67.29 | -25.00 | 42.29 | Horizontal |
| 5052.050000 | -57.34 | -25.00 | 32.34 | Horizontal |
| 7578.275000 | -45.38 | -25.00 | 20.38 | Horizontal |
| 10104.175000 | -57.55 | -25.00 | 32.55 | Horizontal |

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7.1.1.1.3 Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 64.300000 | -81.97 | -25.00 | 56.97 | Vertical |
| 174.300000 | -87.14 | -25.00 | 62.14 | Vertical |
| 434.000000 | -71.84 | -25.00 | 46.84 | Vertical |
| 5102.100000 | -58.45 | -25.00 | 33.45 | Vertical |
| 7653.350000 | -60.23 | -25.00 | 35.23 | Vertical |
| 10204.275000 | -63.11 | -25.00 | 38.11 | Vertical |
| 62.750000 | -78.11 | -25.00 | 53.11 | Horizontal |
| 104.300000 | -82.36 | -25.00 | 57.36 | Horizontal |
| 434.050000 | -79.37 | -25.00 | 54.37 | Horizontal |
| 5102.100000 | -60.81 | -25.00 | 35.81 | Horizontal |
| 7653.350000 | -46.22 | -25.00 | 21.22 | Horizontal |
| 10204.275000 | -60.11 | -25.00 | 35.11 | Horizontal |

NOTE:

- 1) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



8 Frequency Stability

8.1 Frequency Error VS. Voltage

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|--------------|---------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTEBAND 7 | LTE/TM1 20MHz | LCH | TN | VL | 9.37 | 0.003733 | PASS |
| | | | | VN | 10.16 | 0.004048 | PASS |
| | | | | VH | -11.34 | -0.004518 | PASS |
| | | MCH | TN | VL | 7.38 | 0.002911 | PASS |
| | | | | VN | 7.57 | 0.002986 | PASS |
| | | | | VH | -20.61 | -0.008130 | PASS |
| | | HCH | TN | VL | -7.95 | -0.003105 | PASS |
| | | | | VN | 7.25 | 0.002832 | PASS |
| | | | | VH | -17.52 | -0.006844 | PASS |
| | LTE/TM2 20MHz | LCH | TN | VL | 13.78 | 0.005490 | PASS |
| | | | | VN | 11.60 | 0.004622 | PASS |
| | | | | VH | 11.04 | 0.004398 | PASS |
| | | MCH | TN | VL | -9.16 | -0.003613 | PASS |
| | | | | VN | -10.94 | -0.004316 | PASS |
| | | | | VH | 10.13 | 0.003996 | PASS |
| | | HCH | TN | VL | -9.98 | -0.003898 | PASS |
| | | | | VN | -11.60 | -0.004531 | PASS |
| | | | | VH | -9.86 | -0.003852 | PASS |

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8.2 Frequency Error VS. Temperature

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|--------------|---------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTEBAND 7 | LTE/TM1 20MHz | LCH | VN | -30 | 9.36 | 0.003729 | PASS |
| | | | | -20 | 14.58 | 0.005809 | PASS |
| | | | | -10 | 12.63 | 0.005032 | PASS |
| | | | | 0 | 11.92 | 0.004749 | PASS |
| | | | | 10 | 14.43 | 0.005749 | PASS |
| | | | | 20 | -7.78 | -0.003069 | PASS |
| | | | | 30 | 10.97 | 0.004327 | PASS |
| | | | | 40 | 7.81 | 0.003081 | PASS |
| | | | | 50 | 7.97 | 0.003144 | PASS |
| | | MCH | VN | -30 | 7.00 | 0.002761 | PASS |
| | | | | -20 | 9.97 | 0.003895 | PASS |
| | | | | -10 | 8.93 | 0.003488 | PASS |
| | | | | 0 | 11.44 | 0.004469 | PASS |
| | | | | 10 | -10.41 | -0.004066 | PASS |
| | | | | 20 | 10.09 | 0.003941 | PASS |
| | | | | 30 | 12.02 | 0.004803 | PASS |
| | | | | 40 | 13.39 | 0.005351 | PASS |
| | | | | 50 | 8.93 | 0.003568 | PASS |
| | | HCH | VN | -30 | 10.70 | 0.004276 | PASS |
| | | | | -20 | 10.90 | 0.004356 | PASS |
| | | | | -10 | 7.14 | 0.002817 | PASS |
| | | | | 0 | 9.36 | 0.003729 | PASS |
| | | | | 10 | 14.58 | 0.005809 | PASS |
| | | | | 20 | 12.63 | 0.005032 | PASS |
| | | | | 30 | 11.92 | 0.004749 | PASS |
| | | | | 40 | 14.43 | 0.005749 | PASS |
| | | | | 50 | -7.78 | -0.003069 | PASS |

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Shenzhen Branch**

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| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|--------------|---------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTEBAND 7 | LTE/TM2 20MHz | LCH | VN | -30 | -8.30 | -0.003274 | PASS |
| | | | | -20 | 11.10 | 0.004332 | PASS |
| | | | | -10 | 9.94 | 0.003879 | PASS |
| | | | | 0 | 6.28 | 0.002451 | PASS |
| | | | | 10 | 10.91 | 0.004258 | PASS |
| | | | | 20 | 10.50 | 0.004098 | PASS |
| | | | | 30 | 8.74 | 0.003482 | PASS |
| | | | | 40 | 11.36 | 0.004526 | PASS |
| | | MCH | VN | -30 | 7.05 | 0.002809 | PASS |
| | | | | -20 | 6.41 | 0.002554 | PASS |
| | | | | -10 | 10.87 | 0.004288 | PASS |
| | | | | 0 | 9.63 | 0.003799 | PASS |
| | | | | 10 | 11.19 | 0.004414 | PASS |
| | | | | 20 | 12.36 | 0.004876 | PASS |
| | | | | 30 | -8.47 | -0.003341 | PASS |
| | | | | 40 | -9.80 | -0.003828 | PASS |
| | | HCH | VN | -30 | 7.22 | 0.002820 | PASS |
| | | | | -20 | -7.54 | -0.002945 | PASS |
| | | | | -10 | -9.98 | -0.003898 | PASS |
| | | | | 0 | -8.30 | -0.003274 | PASS |
| | | | | 10 | 11.10 | 0.004332 | PASS |
| | | | | 20 | 9.94 | 0.003879 | PASS |
| | | | | 30 | 6.28 | 0.002451 | PASS |
| | | | | 40 | 10.91 | 0.004258 | PASS |
| | | | | 50 | 10.50 | 0.004098 | PASS |

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