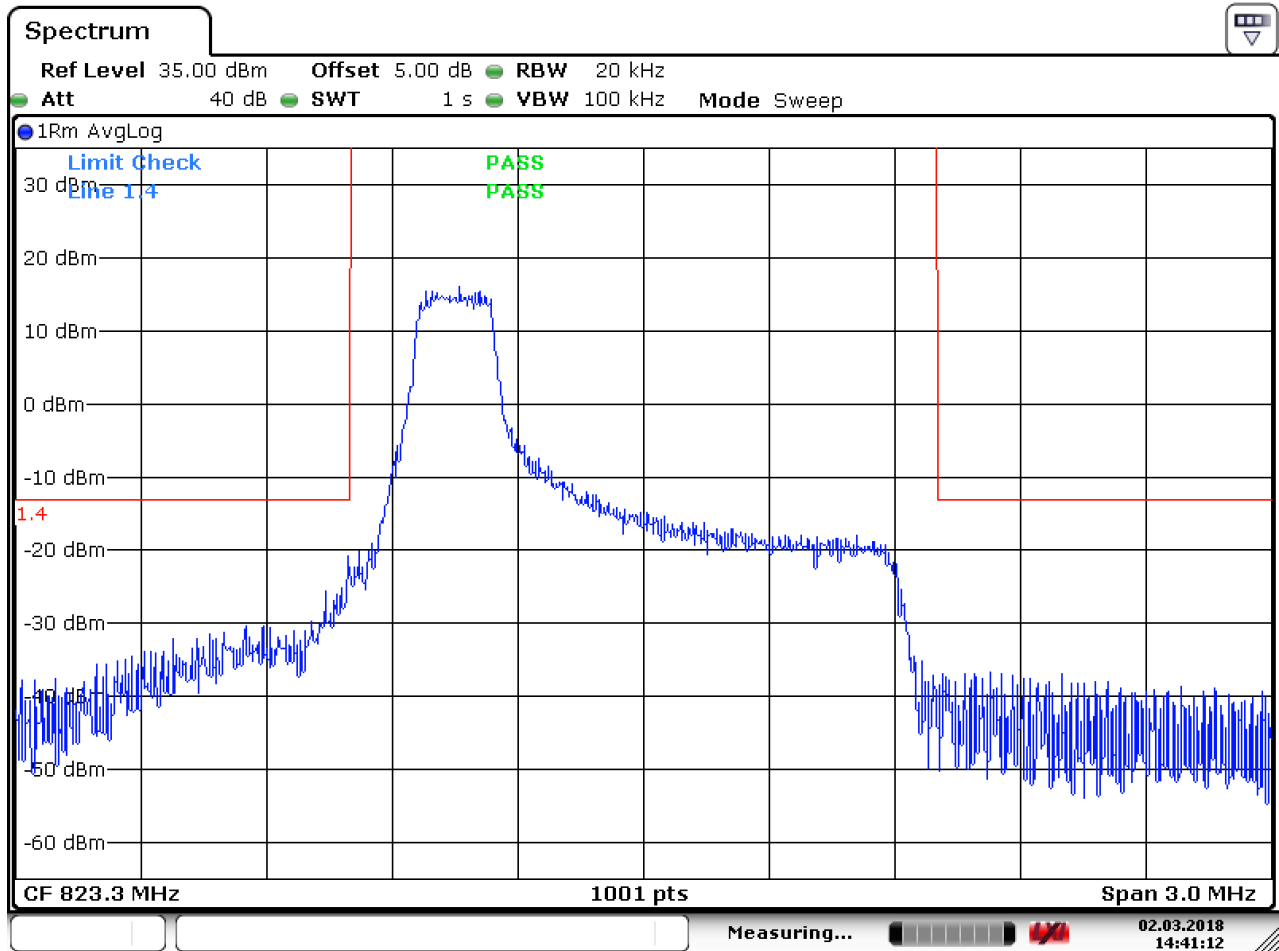




6.1.1.1.2 Test Channel = HCH

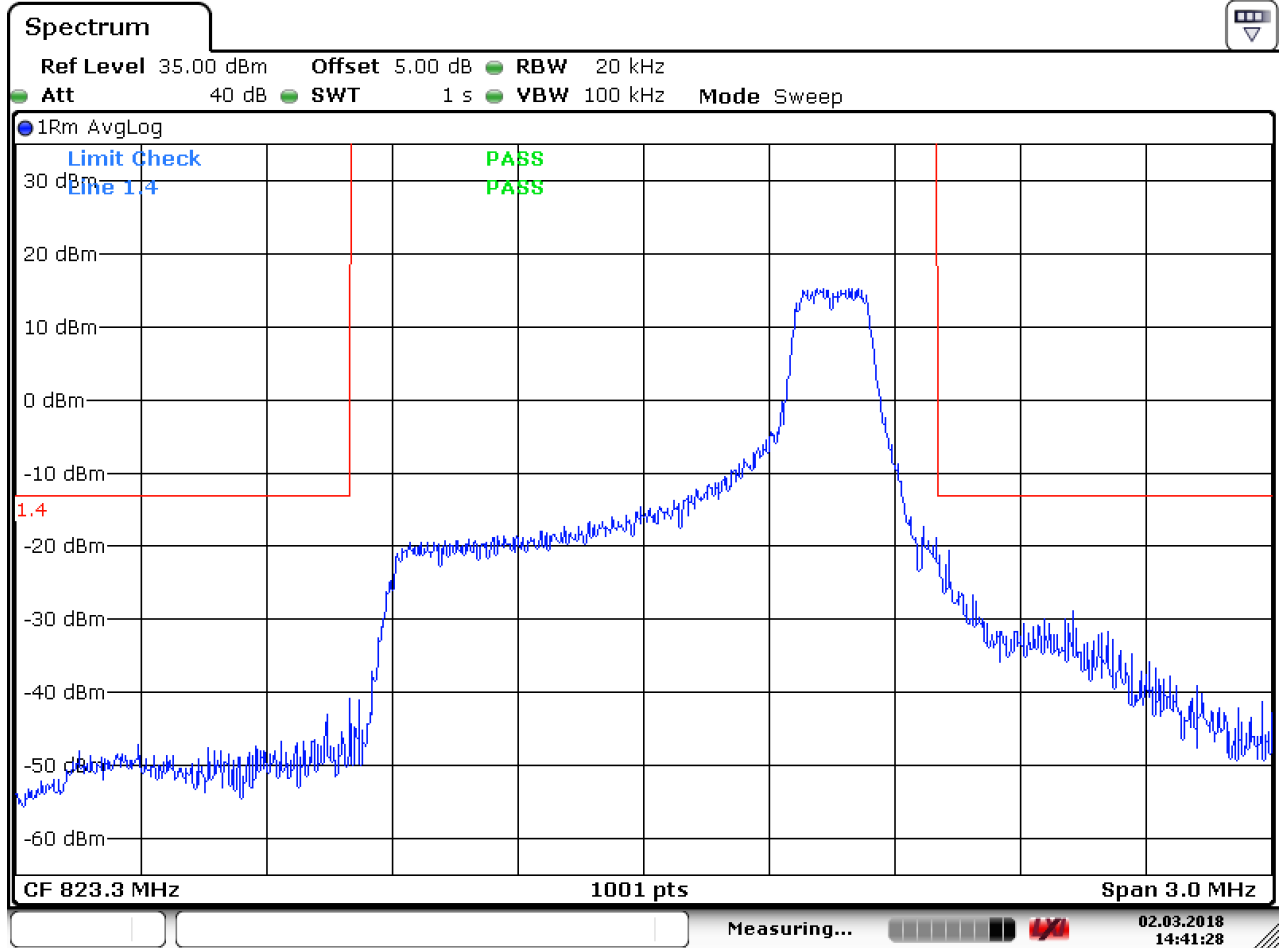
6.1.1.1.2.1 Test RB=1RB



Date: 2.MAR.2018 14:41:12



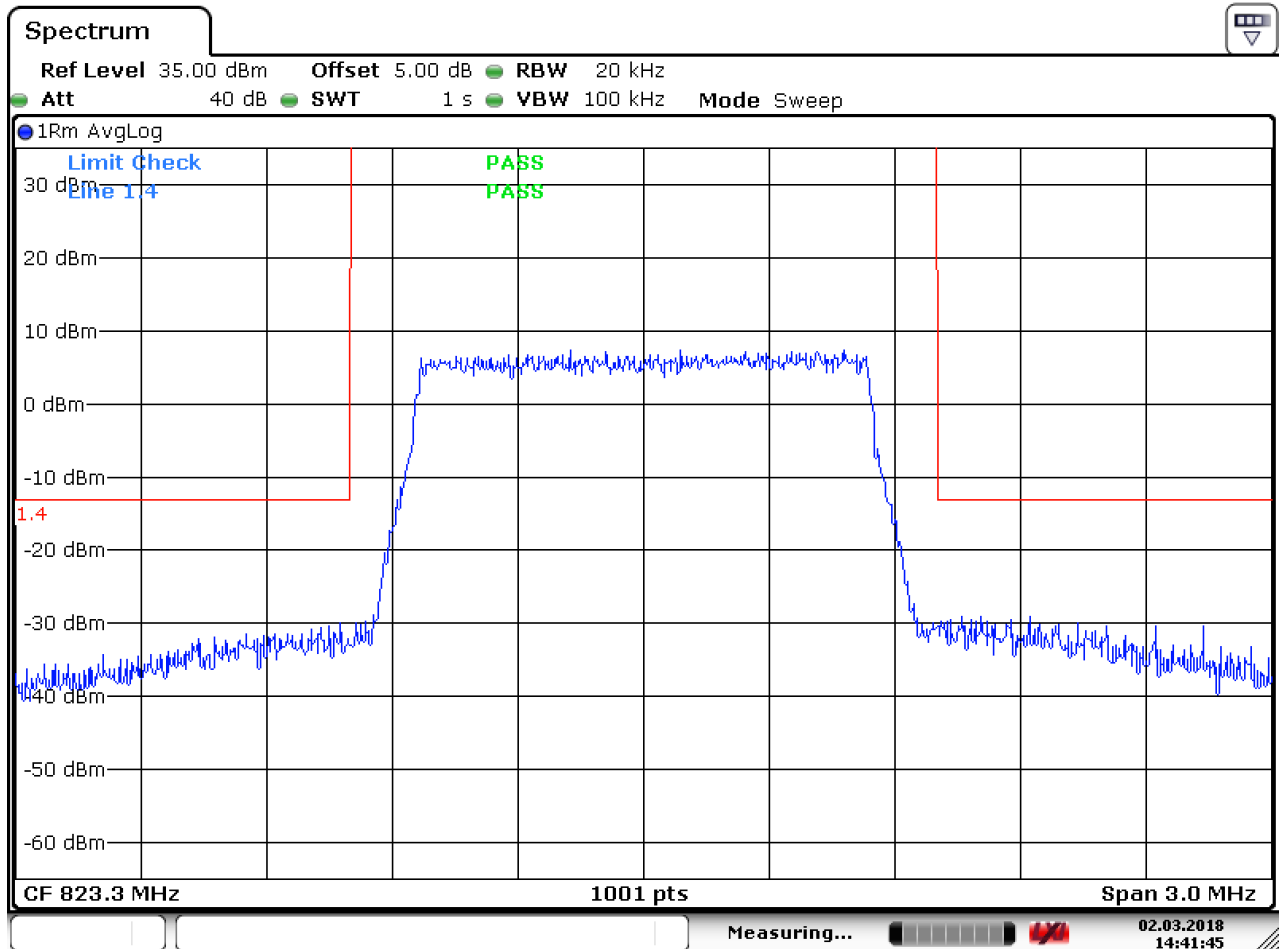
6.1.1.1.2.2 Test RB=1RB#5



Date: 2.MAR.2018 14:41:28



6.1.1.1.2.3 Test RB=6RB

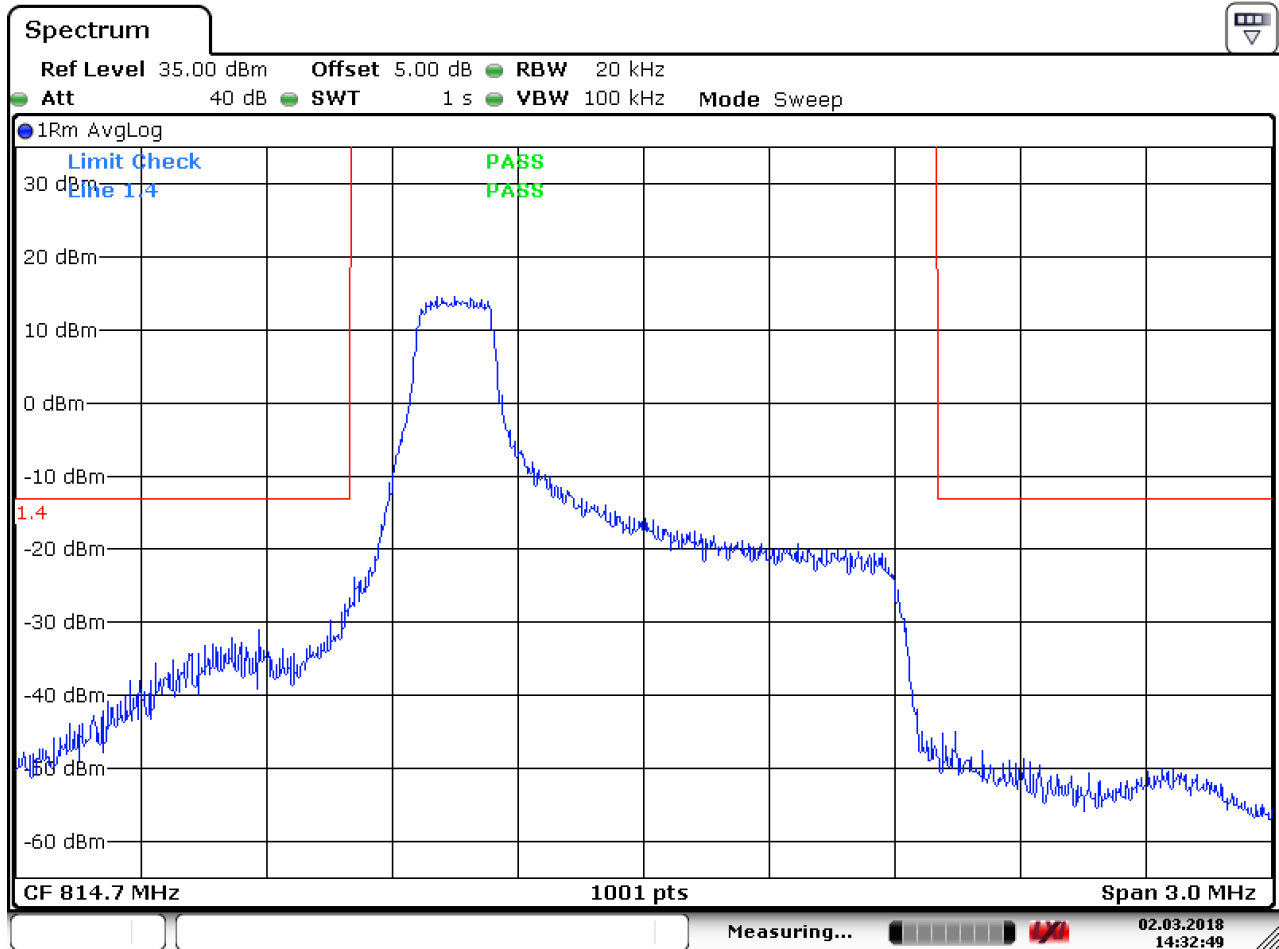


Date: 2.MAR.2018 14:41:45



6.1.1.2 Test Mode = LTE/TM2 1.4MHz
6.1.1.2.1 Test Channel = LCH

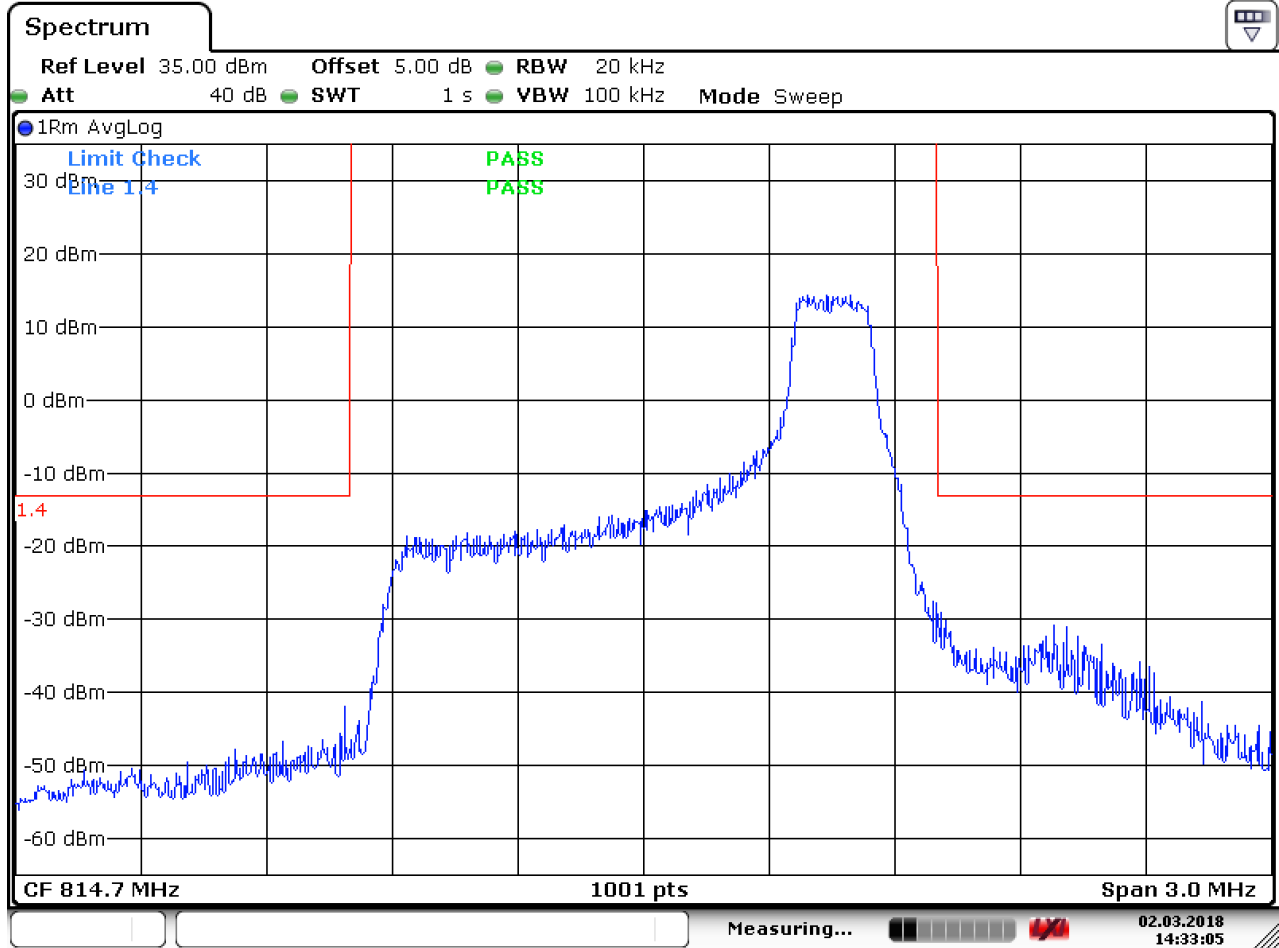
6.1.1.2.1.1 Test RB=1RB#0



Date: 2.MAR.2018 14:32:49



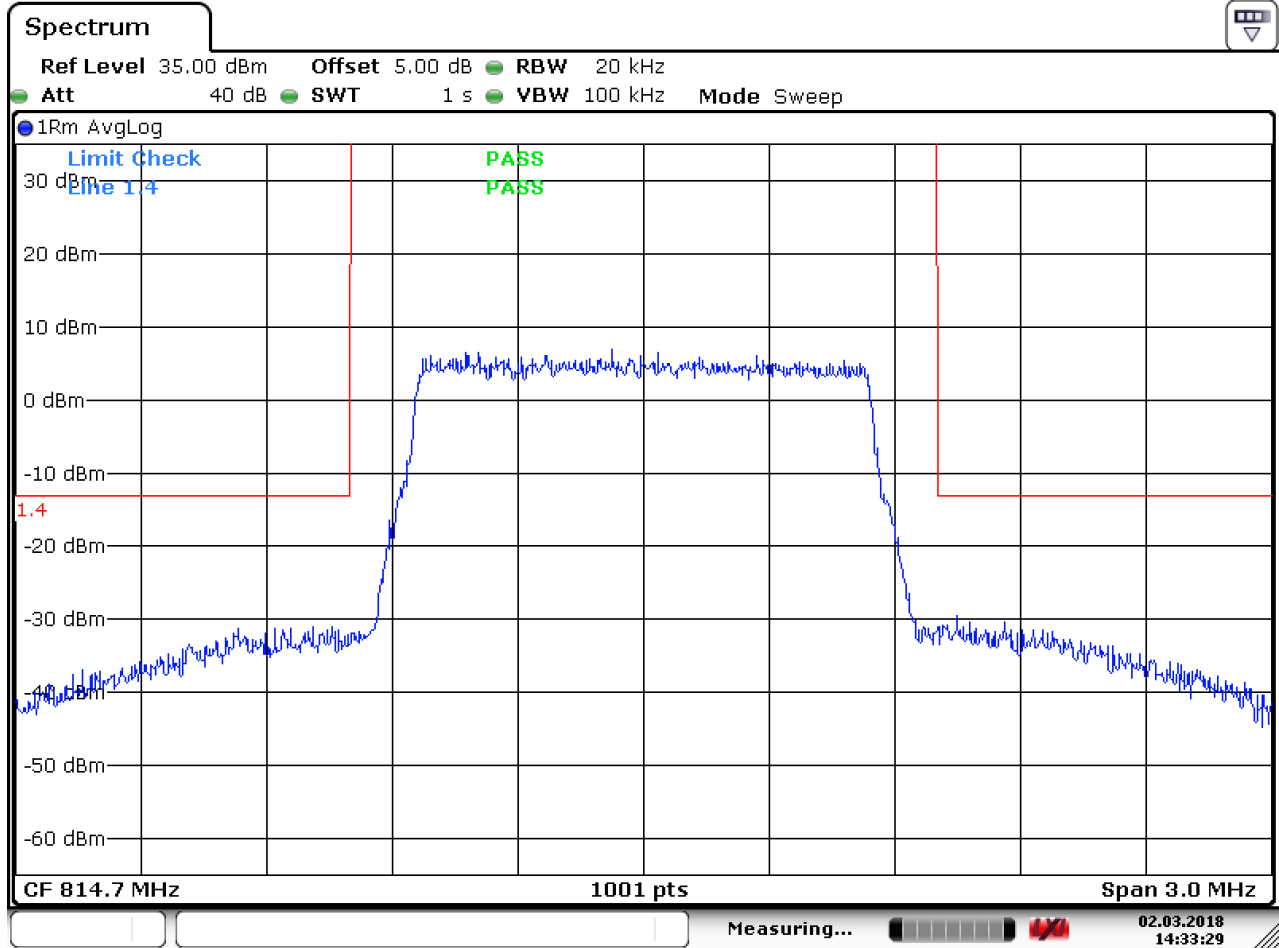
6.1.1.2.1.2 Test RB=1RB#5



Date: 2.MAR.2018 14:33:06



6.1.1.2.1.3 Test RB=6RB

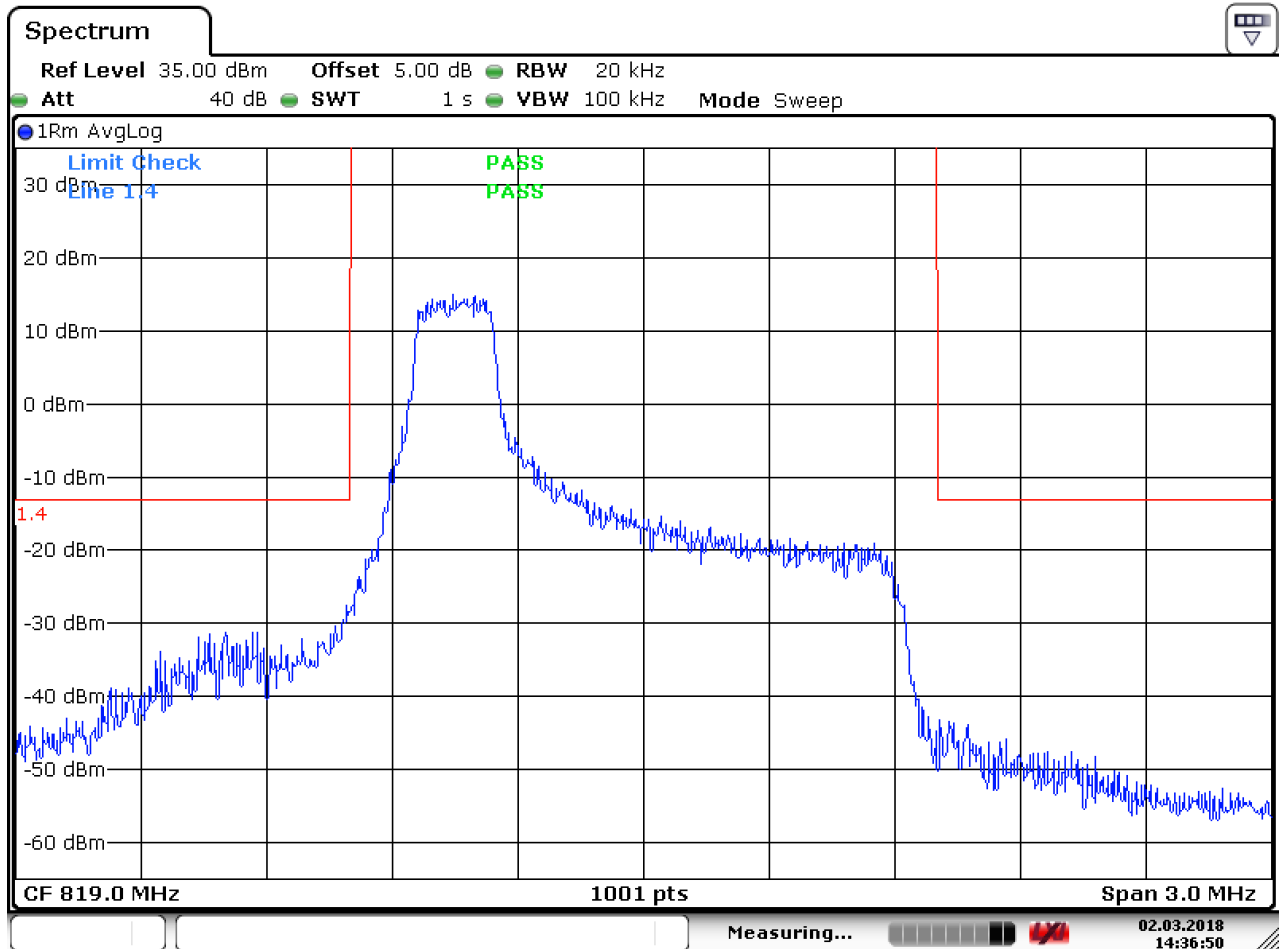


Date: 2.MAR.2018 14:33:29



6.1.1.2.2 Test Channel = MCH

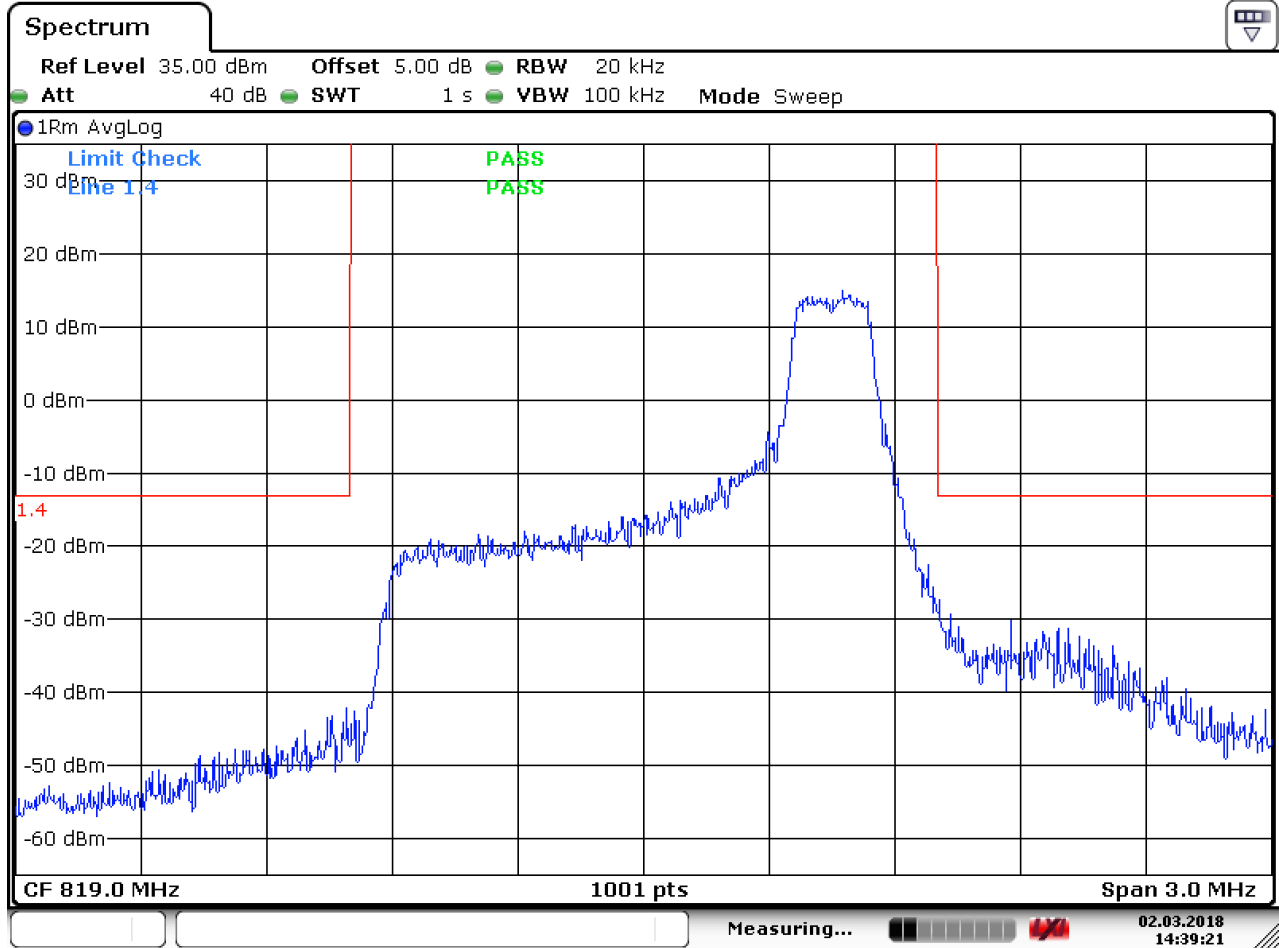
6.1.1.2.2.1 Test RB=1RB#0



Date: 2.MAR.2018 14:36:50



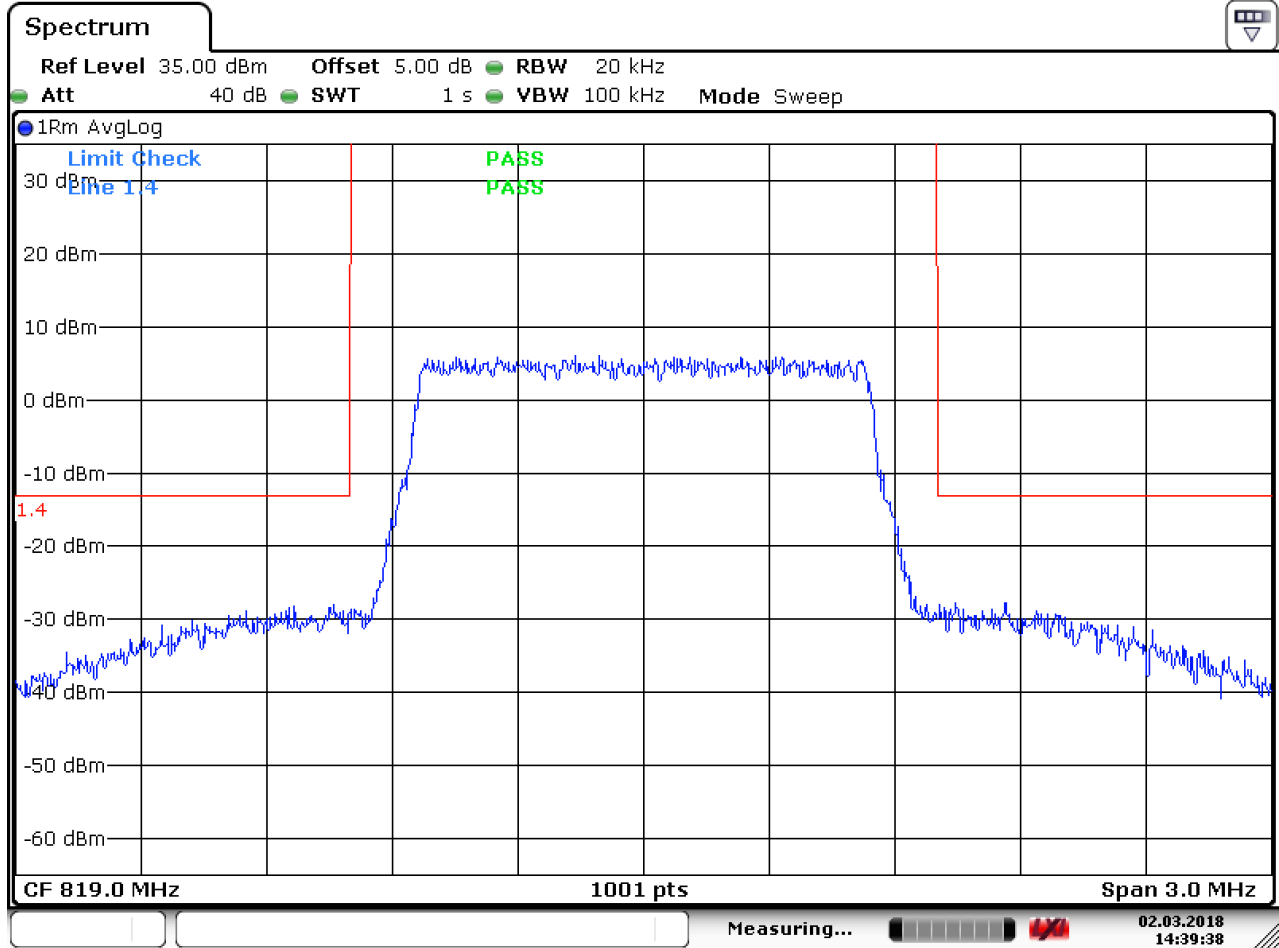
6.1.1.2.2.2 Test RB=1RB#5



Date: 2.MAR.2018 14:39:21



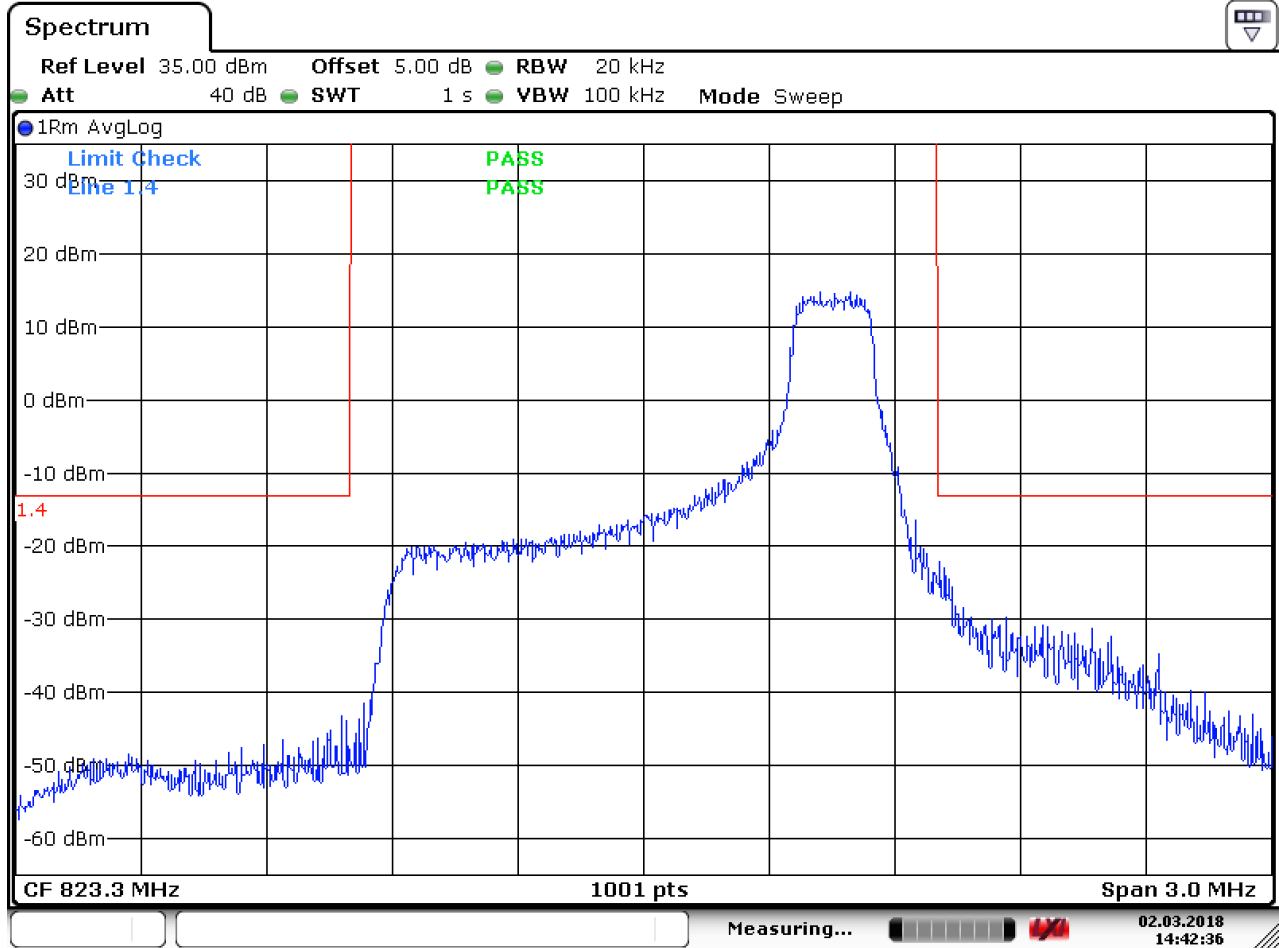
6.1.1.2.2.3 Test RB=6RB



Date: 2.MAR.2018 14:39:39



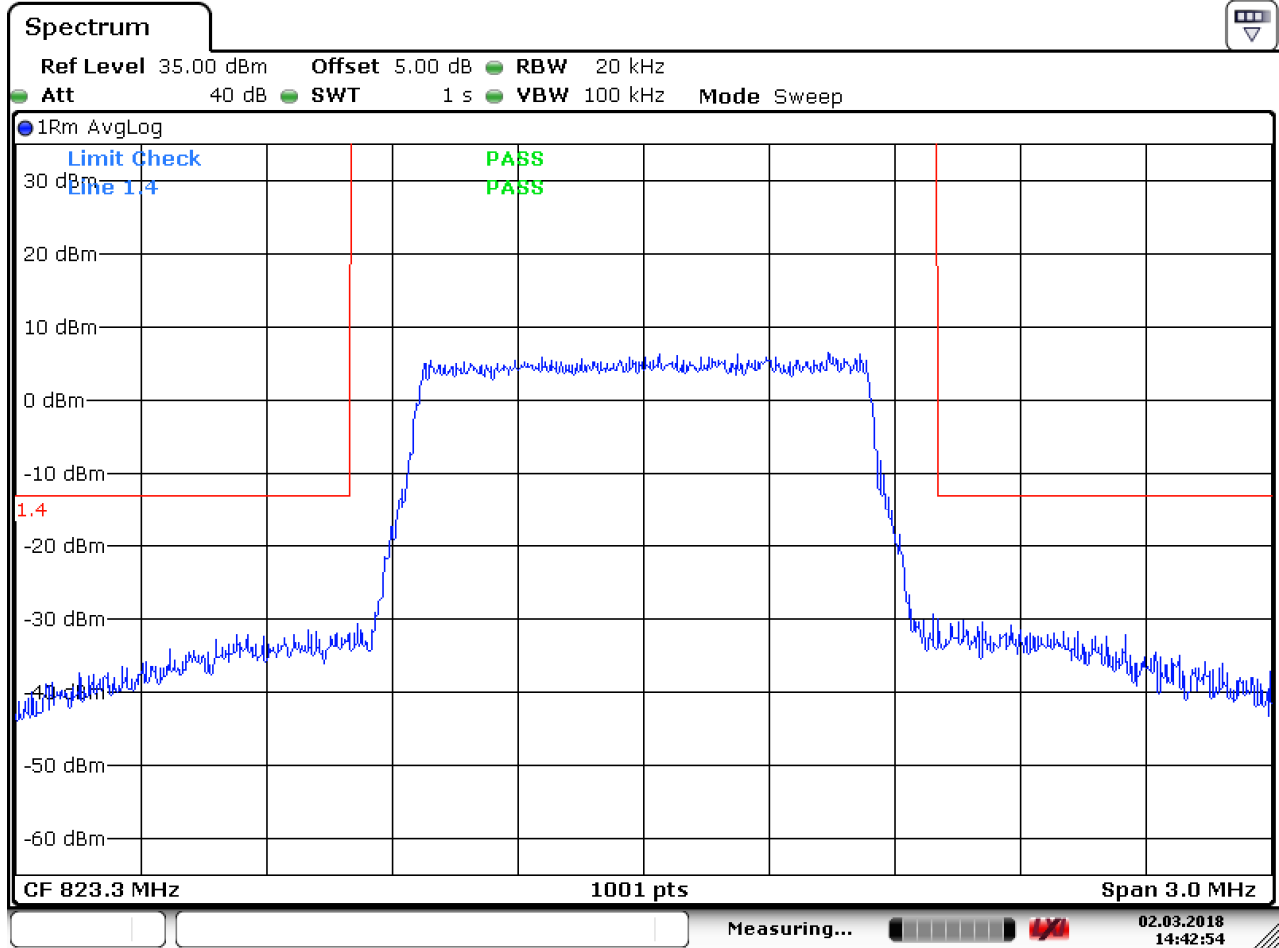
6.1.1.2.3.2 Test RB=1RB#5



Date: 2.MAR.2018 14:42:37



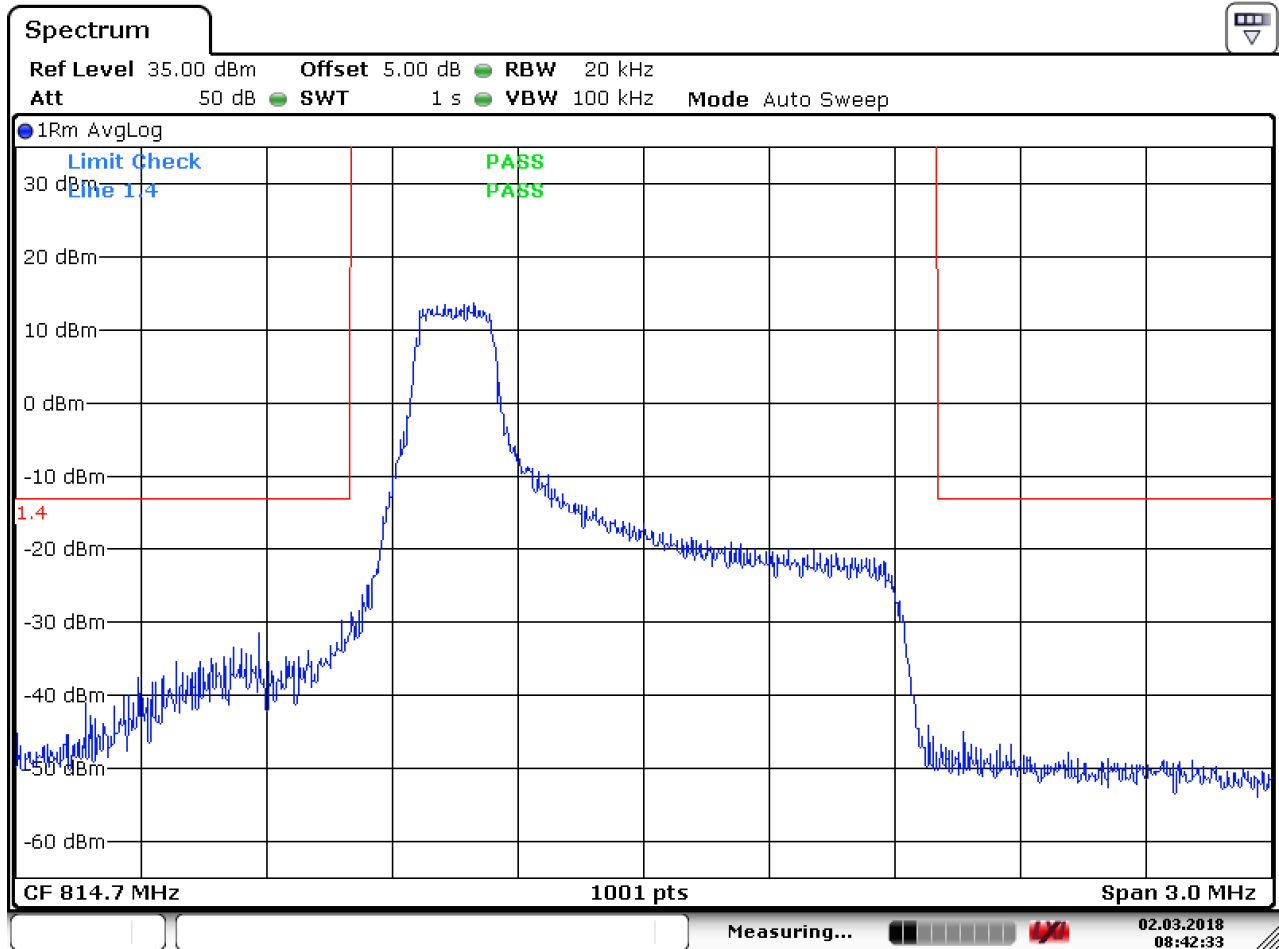
6.1.1.2.3.3 Test RB=6RB



Date: 2.MAR.2018 14:42:54

6.1.1.3 Test Mode = LTE/TM3 1.4MHz
6.1.1.3.1 Test Channel = LCH

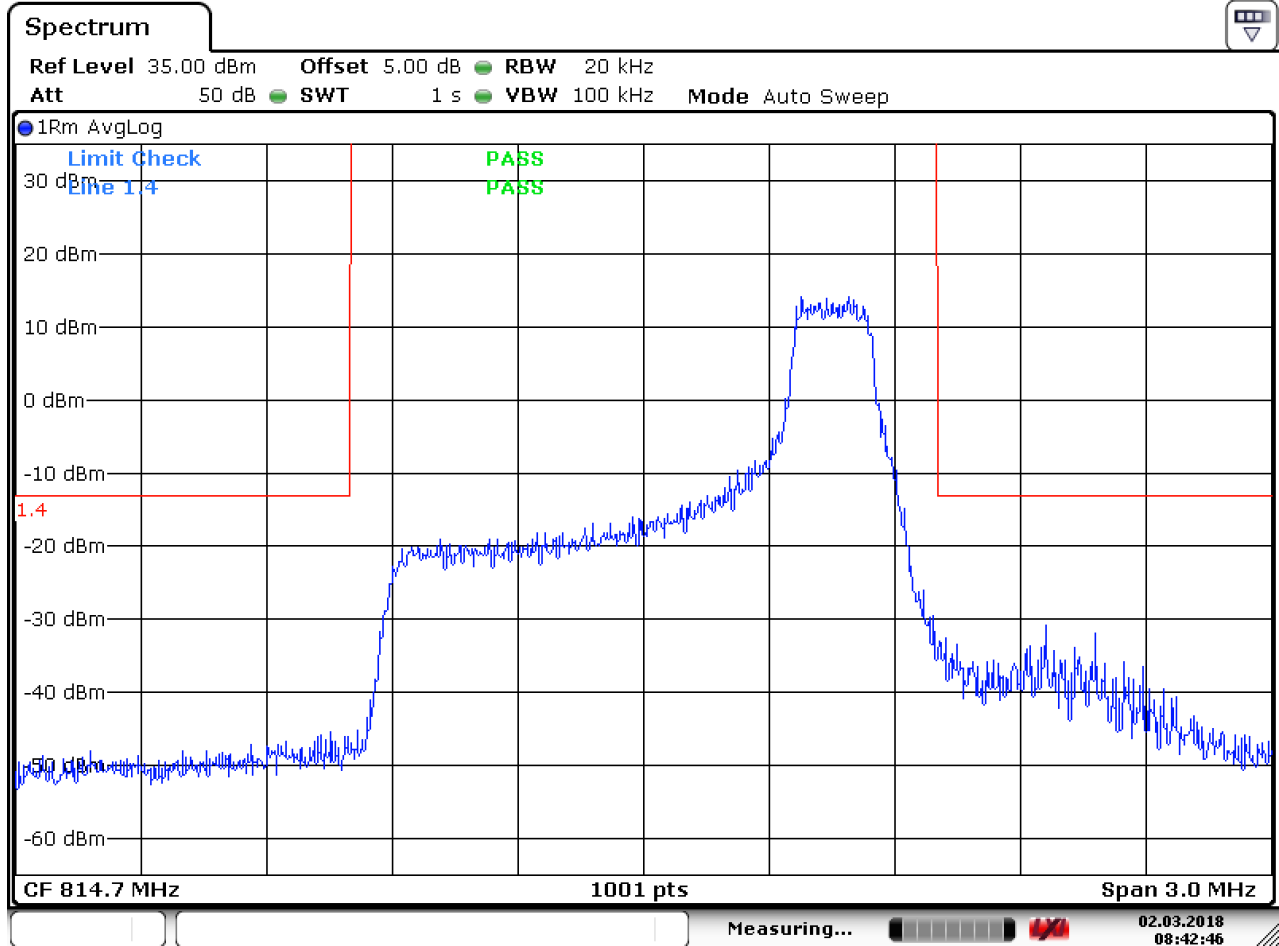
6.1.1.3.1.1 Test RB=1RB#0



Date: 2.MAR.2018 08:42:33



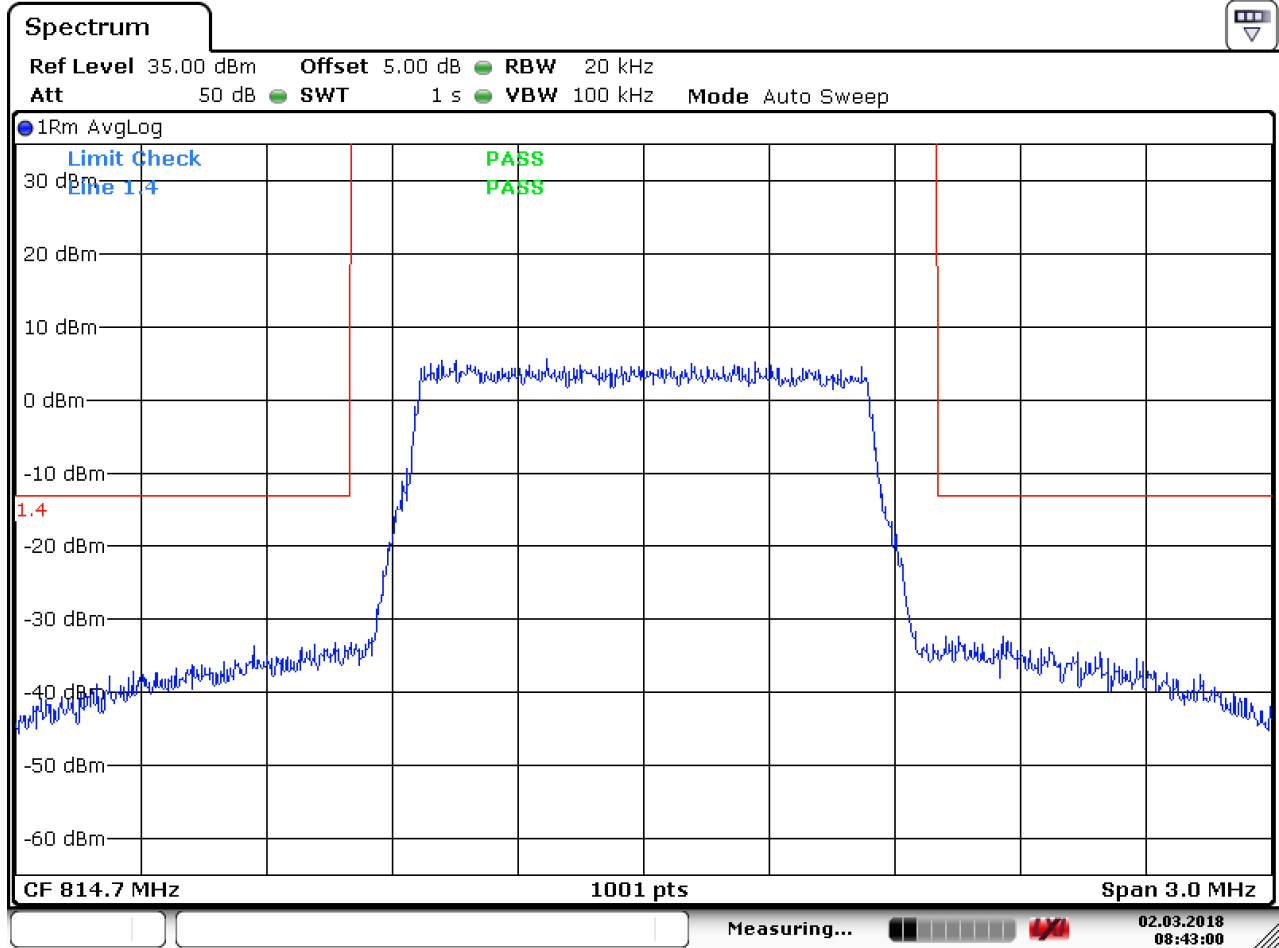
6.1.1.3.1.2 Test RB=1RB#5



Date: 2.MAR.2018 08:42:46



6.1.1.3.1.3 Test RB=6RB

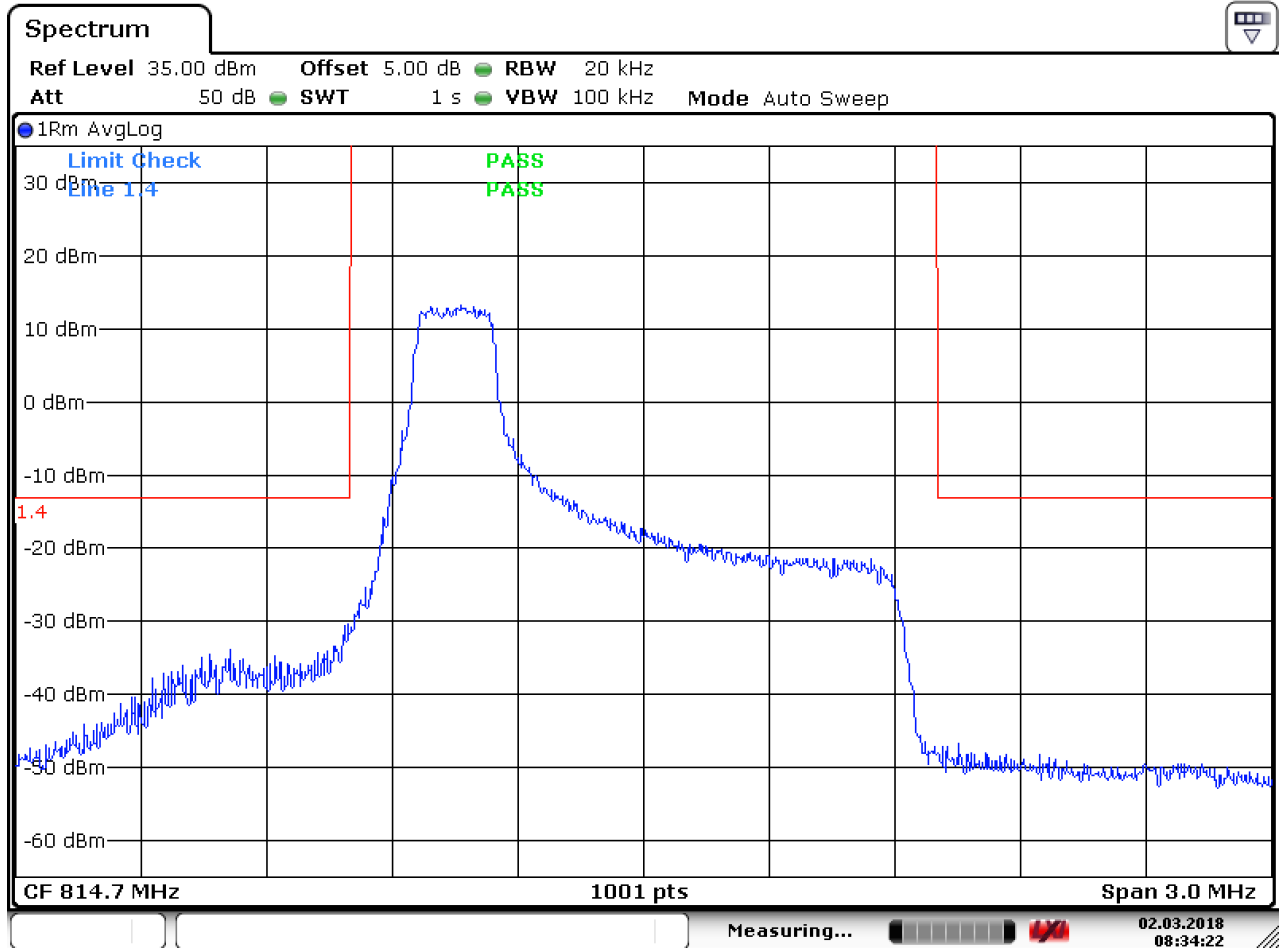


Date: 2.MAR.2018 08:43:01



6.1.1.3.2 Test Channel = MCH

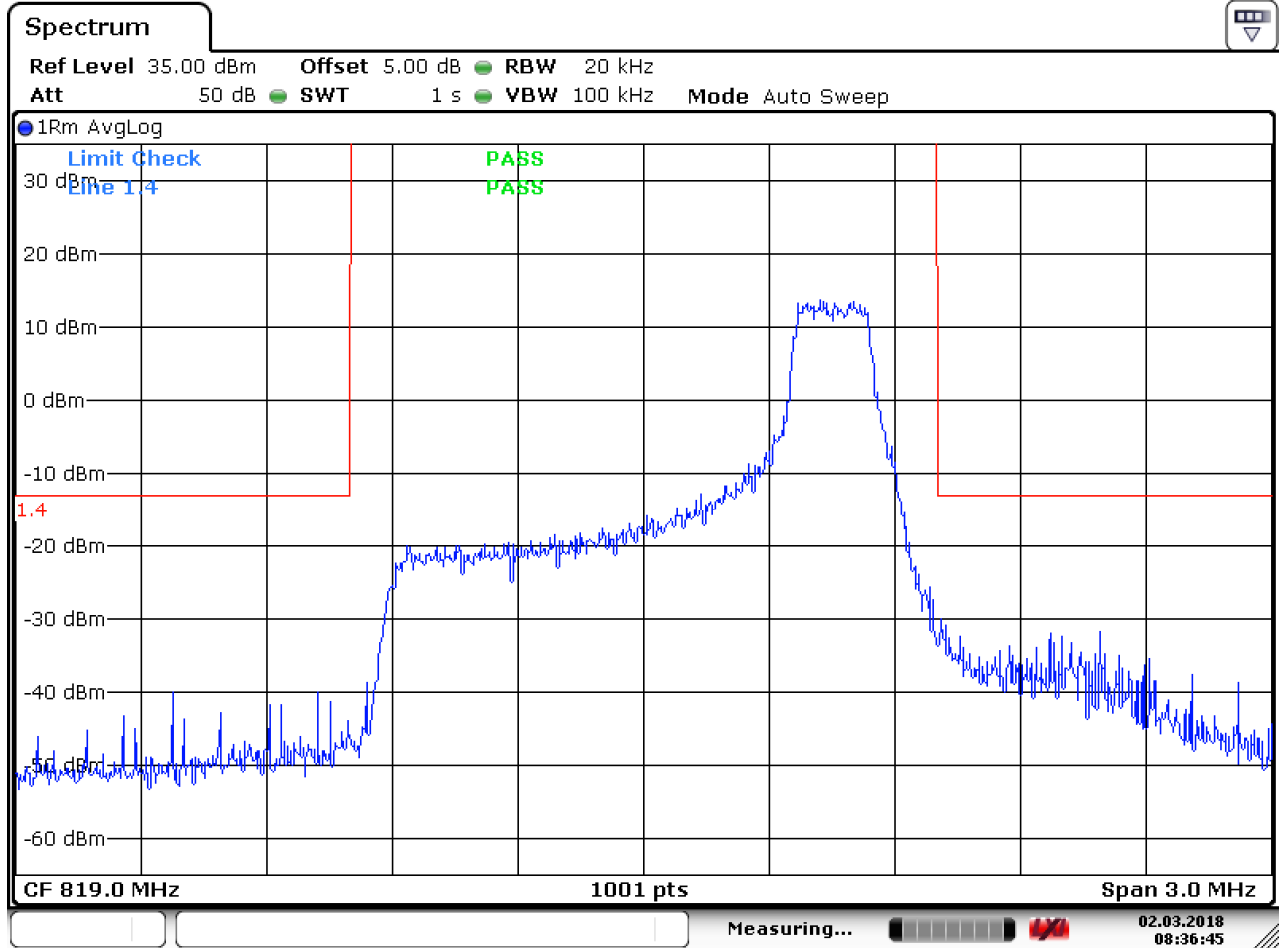
6.1.1.3.2.1 Test RB=1RB#0



Date: 2.MAR.2018 08:34:23



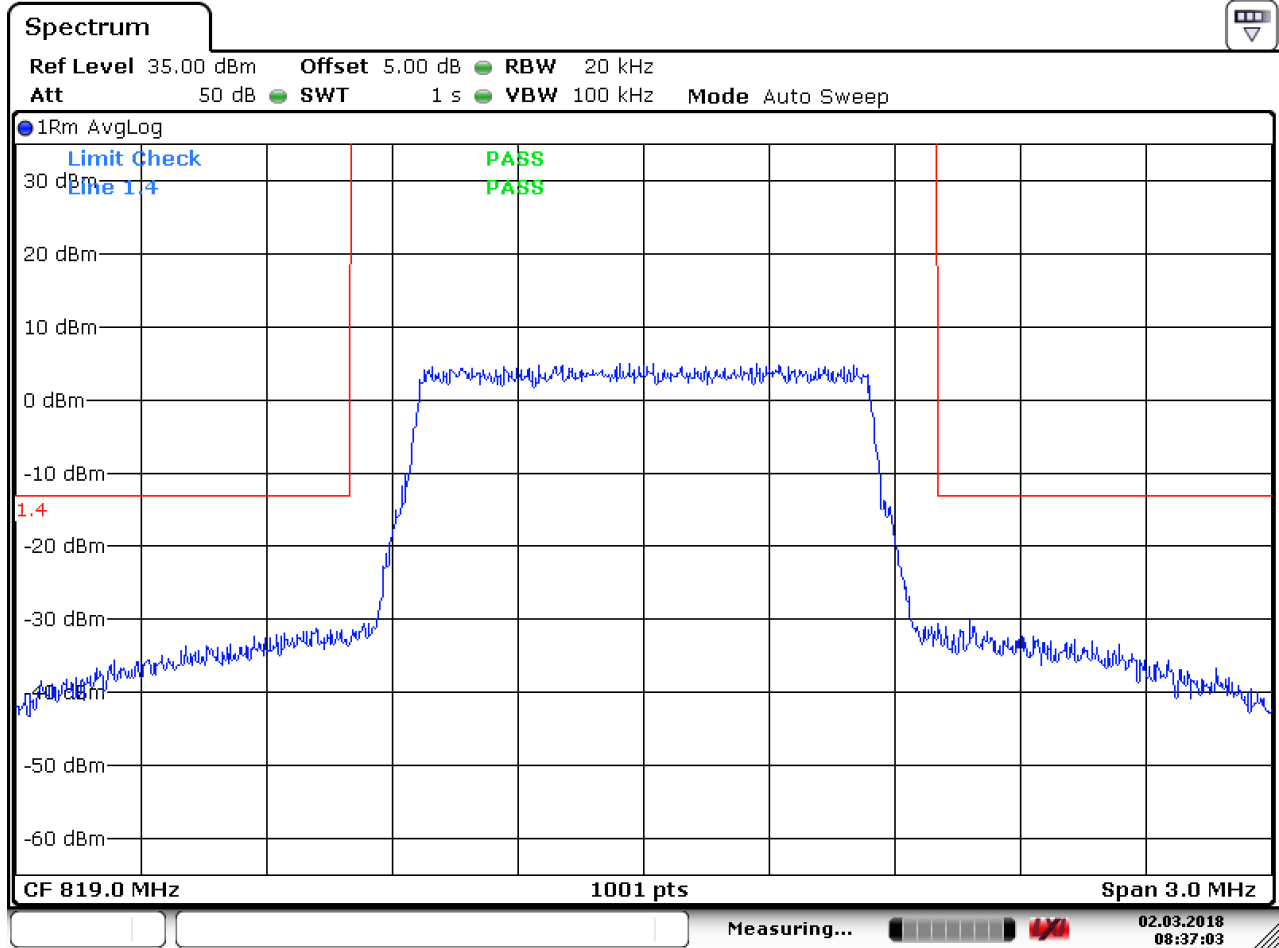
6.1.1.3.2.2 Test RB=1RB#5



Date: 2.MAR.2018 08:36:46



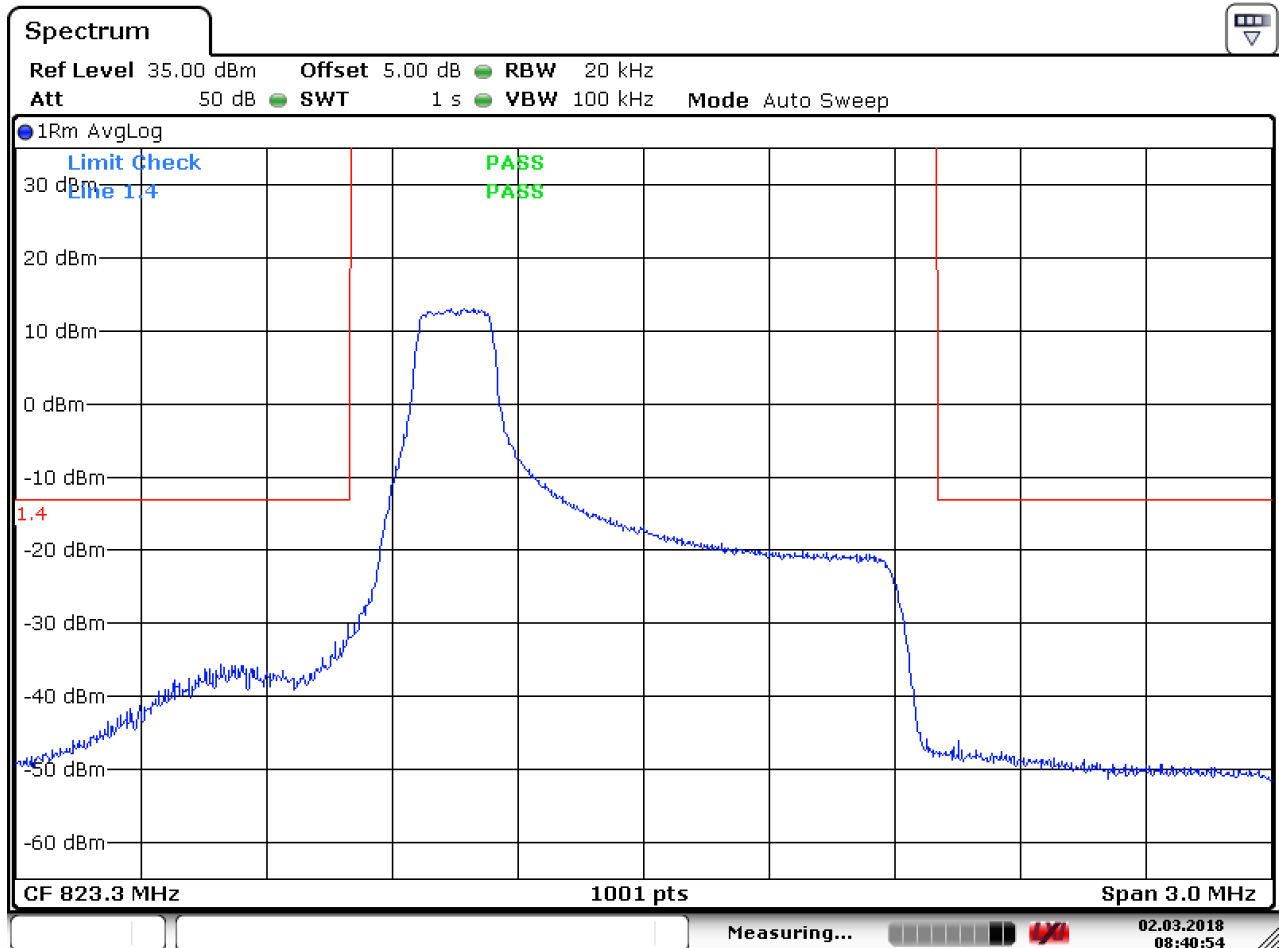
6.1.1.3.2.3 Test RB=6RB



Date: 2.MAR.2018 08:37:04

6.1.1.3.3 Test Channel = HCH

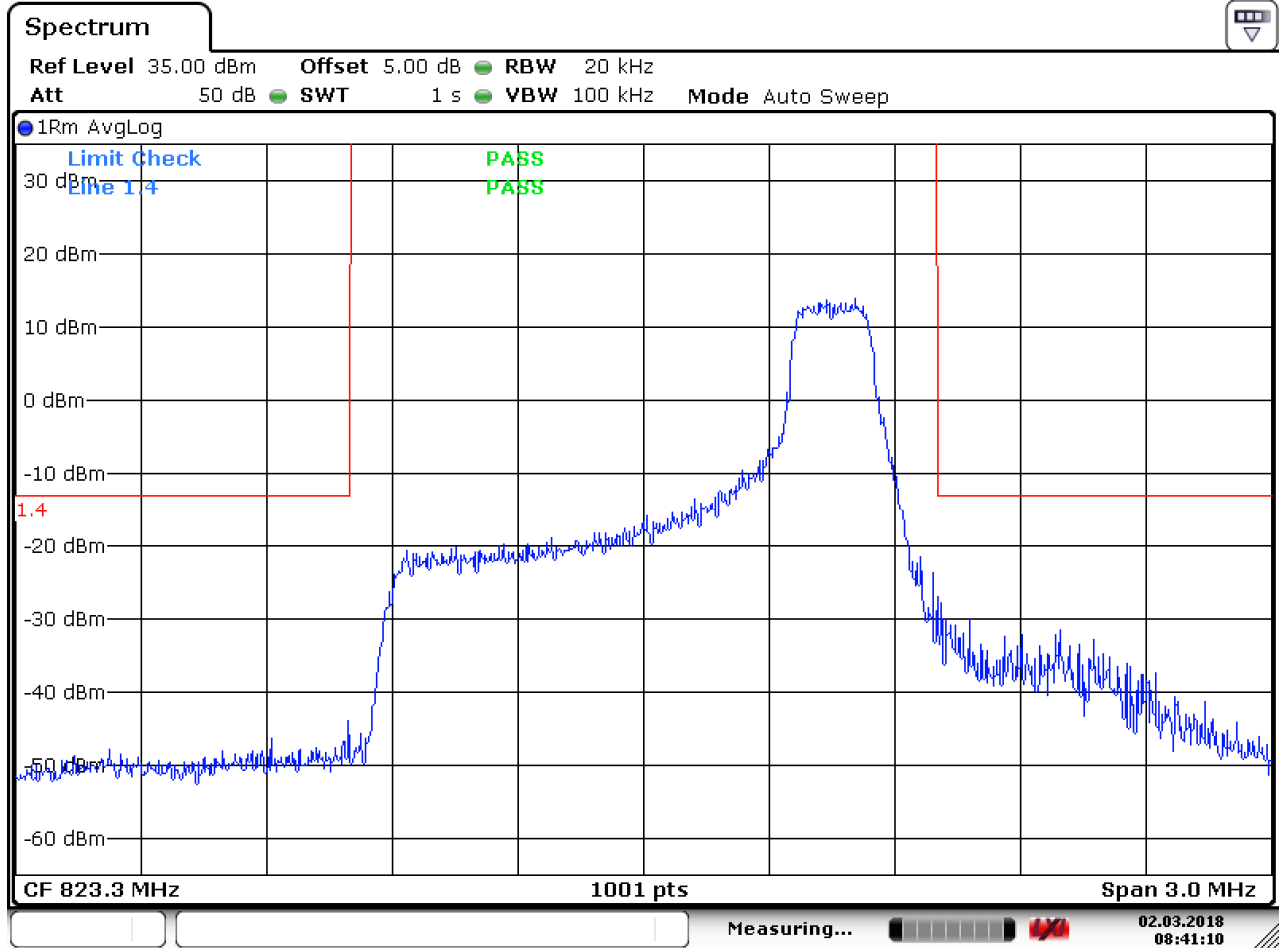
6.1.1.3.3.1 Test RB=1RB



Date: 2.MAR.2018 08:40:55



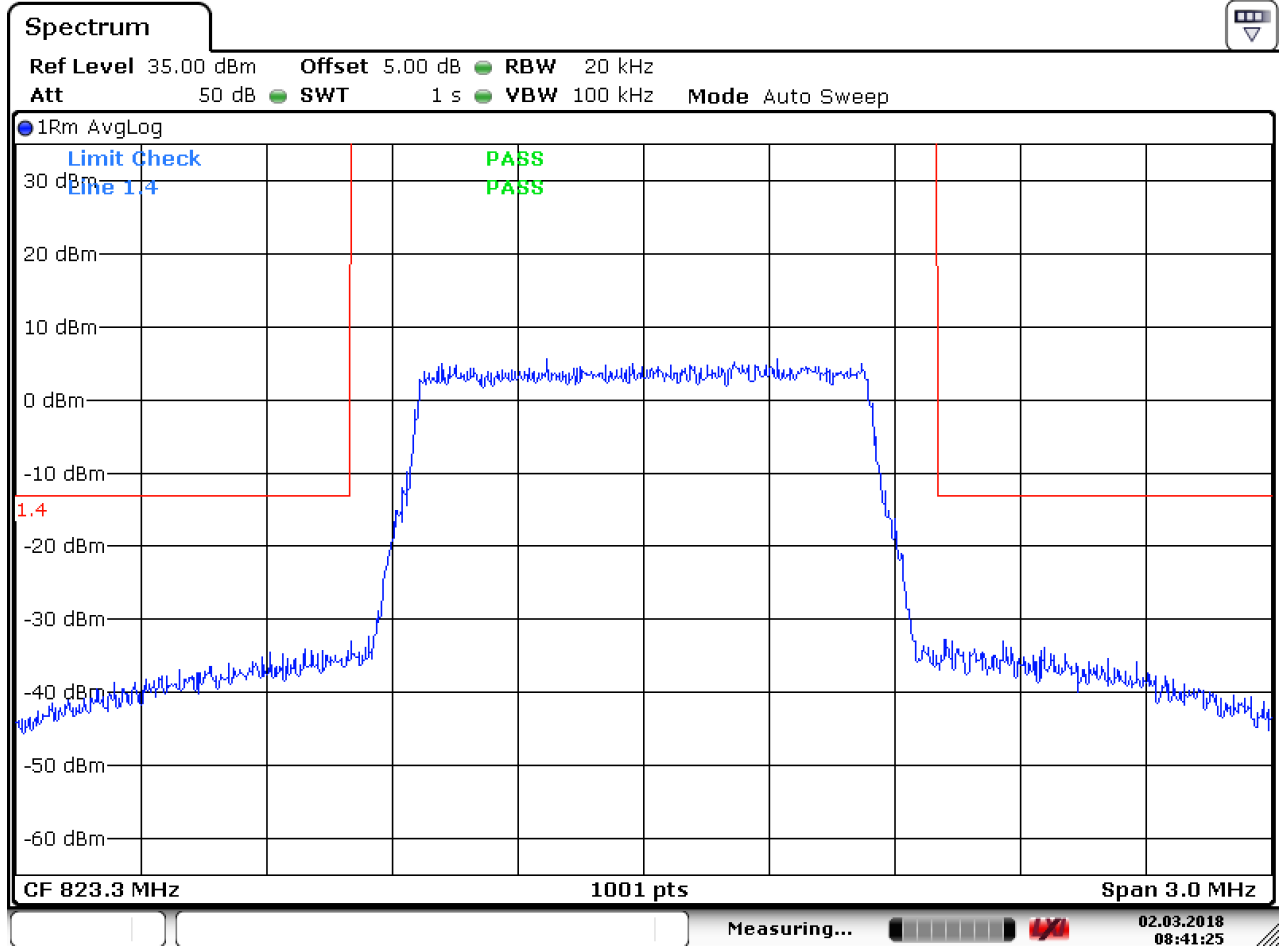
6.1.1.3.3.2 Test RB=1RB#5



Date: 2.MAR.2018 08:41:10



6.1.1.3.3.3 Test RB=6RB

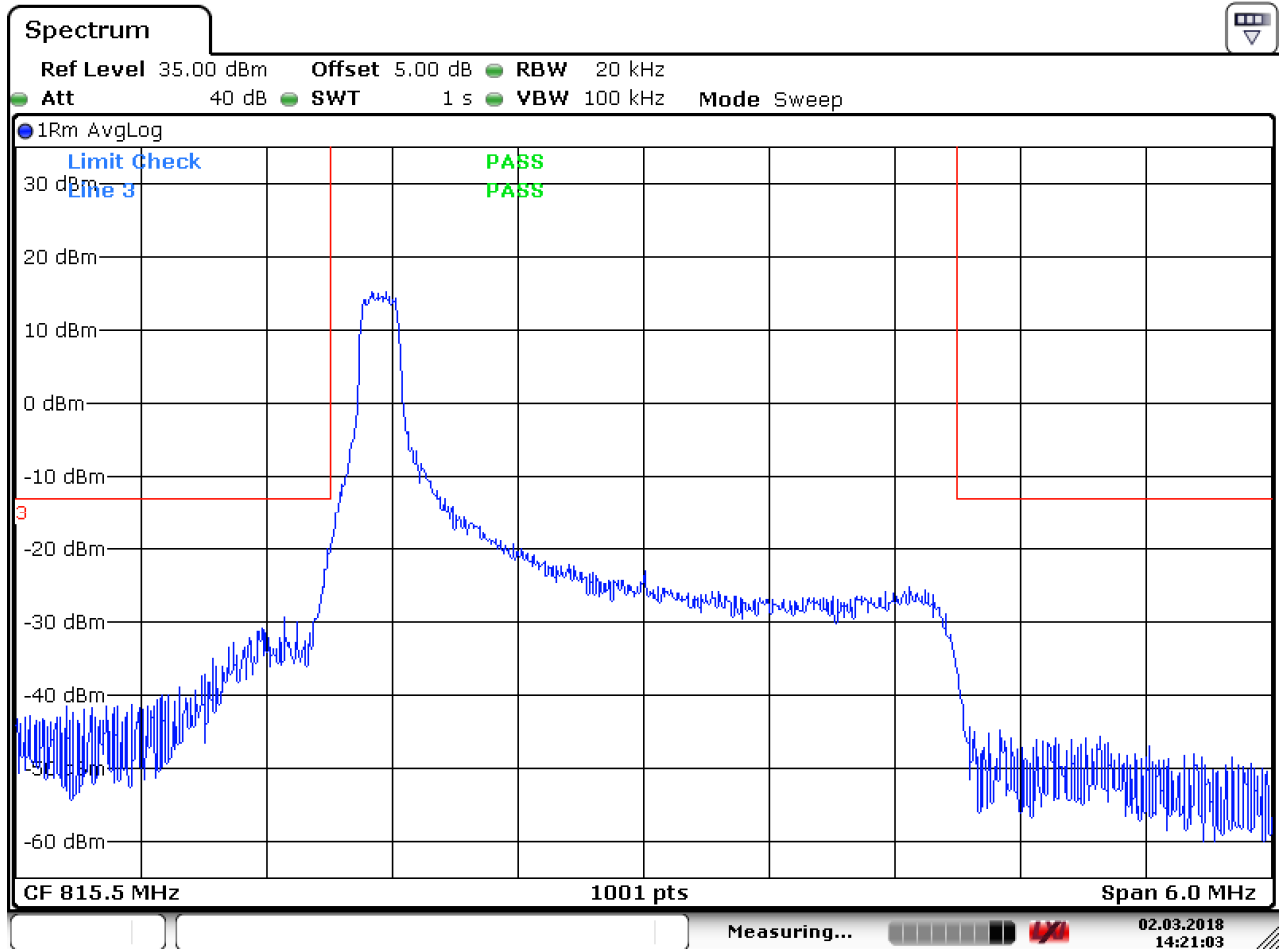


Date: 2.MAR.2018 08:41:25

6.1.1.4 Test Mode = LTE/TM1 3MHz

6.1.1.4.1 Test Channel = LCH

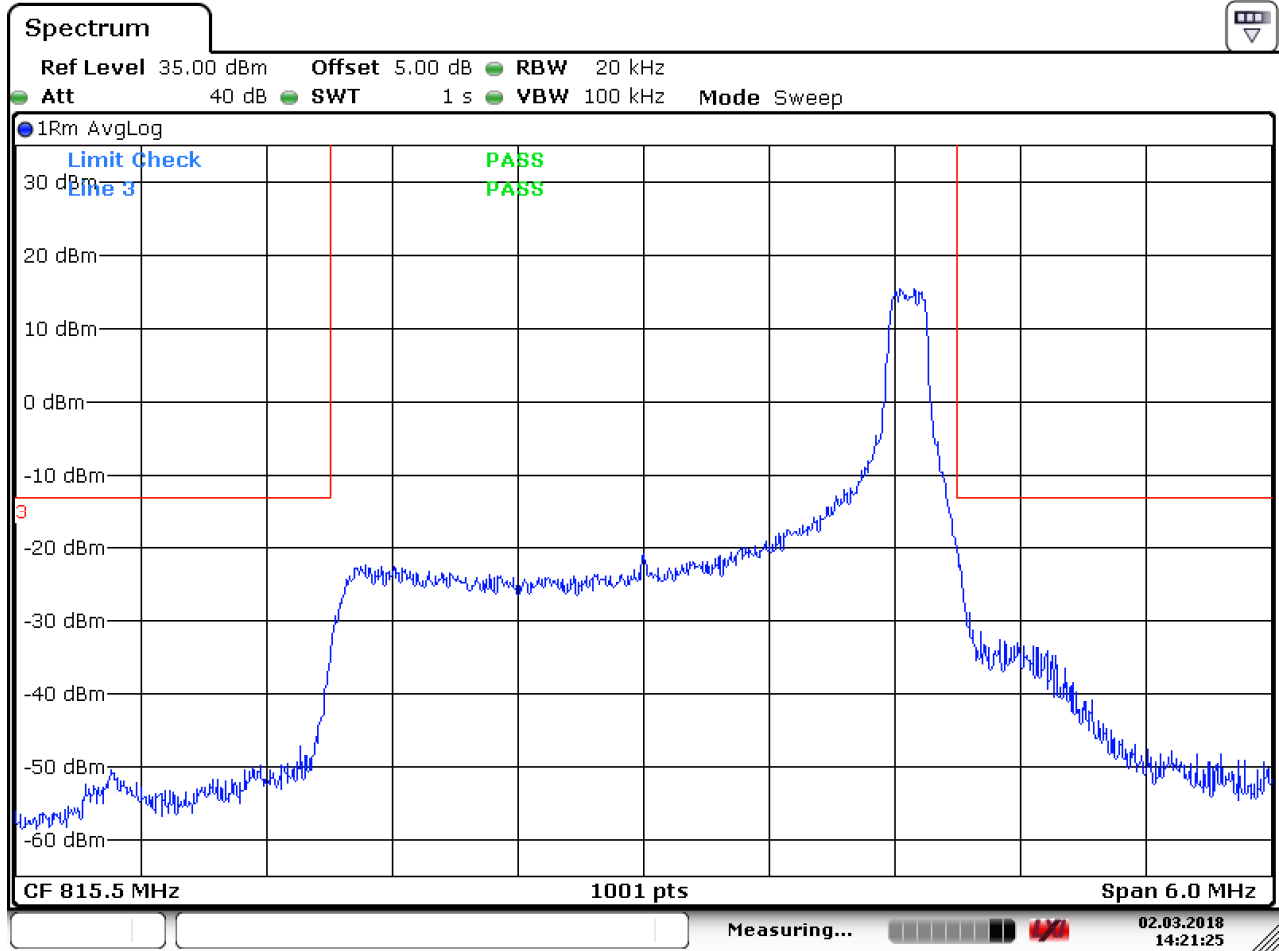
6.1.1.4.1.1 Test RB=1RB#0



Date: 2.MAR.2018 14:21:04



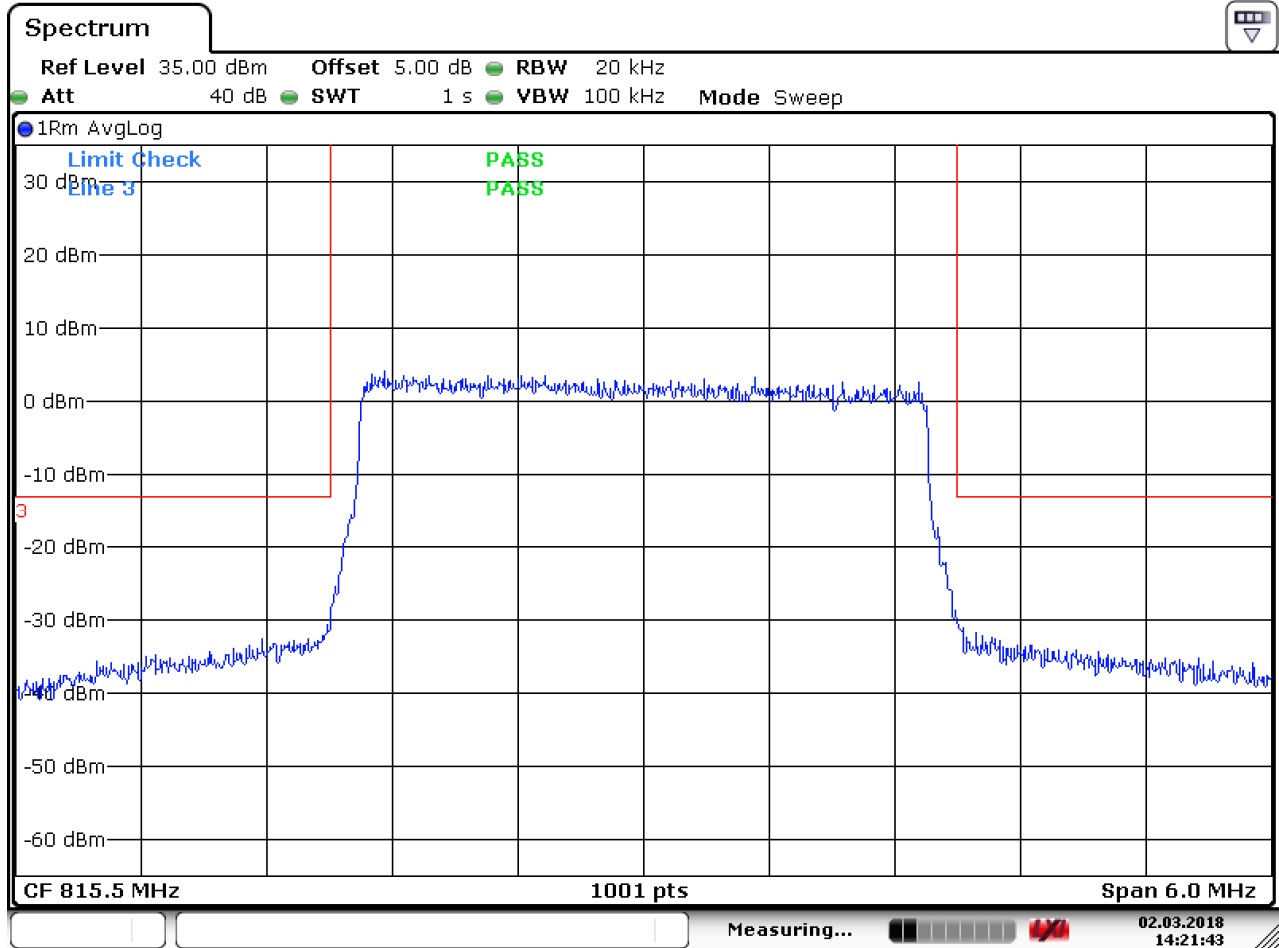
6.1.1.4.1.2 Test RB=1RB#14



Date: 2.MAR.2018 14:21:25



6.1.1.4.1.3 Test RB=15RB

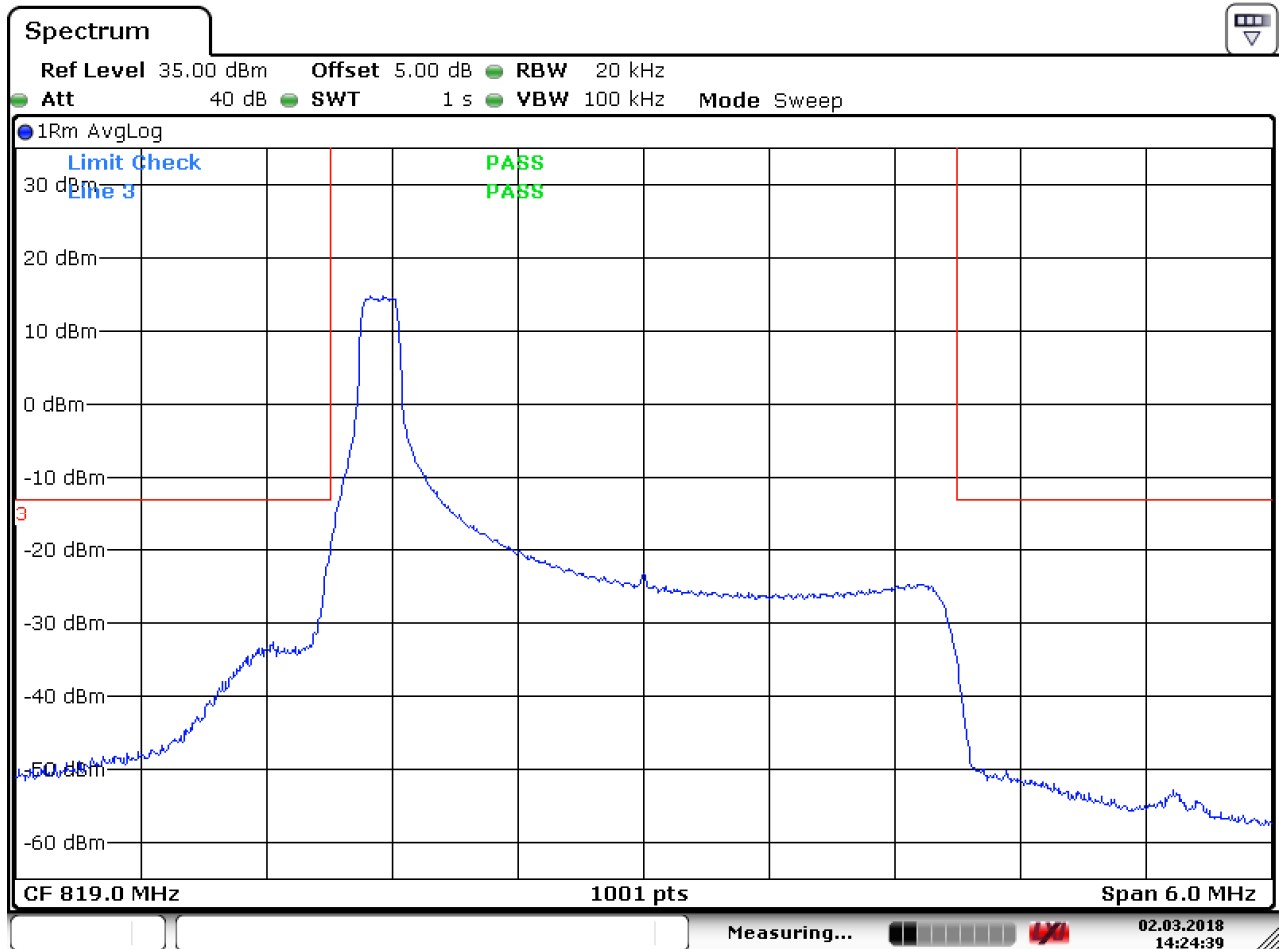


Date: 2.MAR.2018 14:21:43



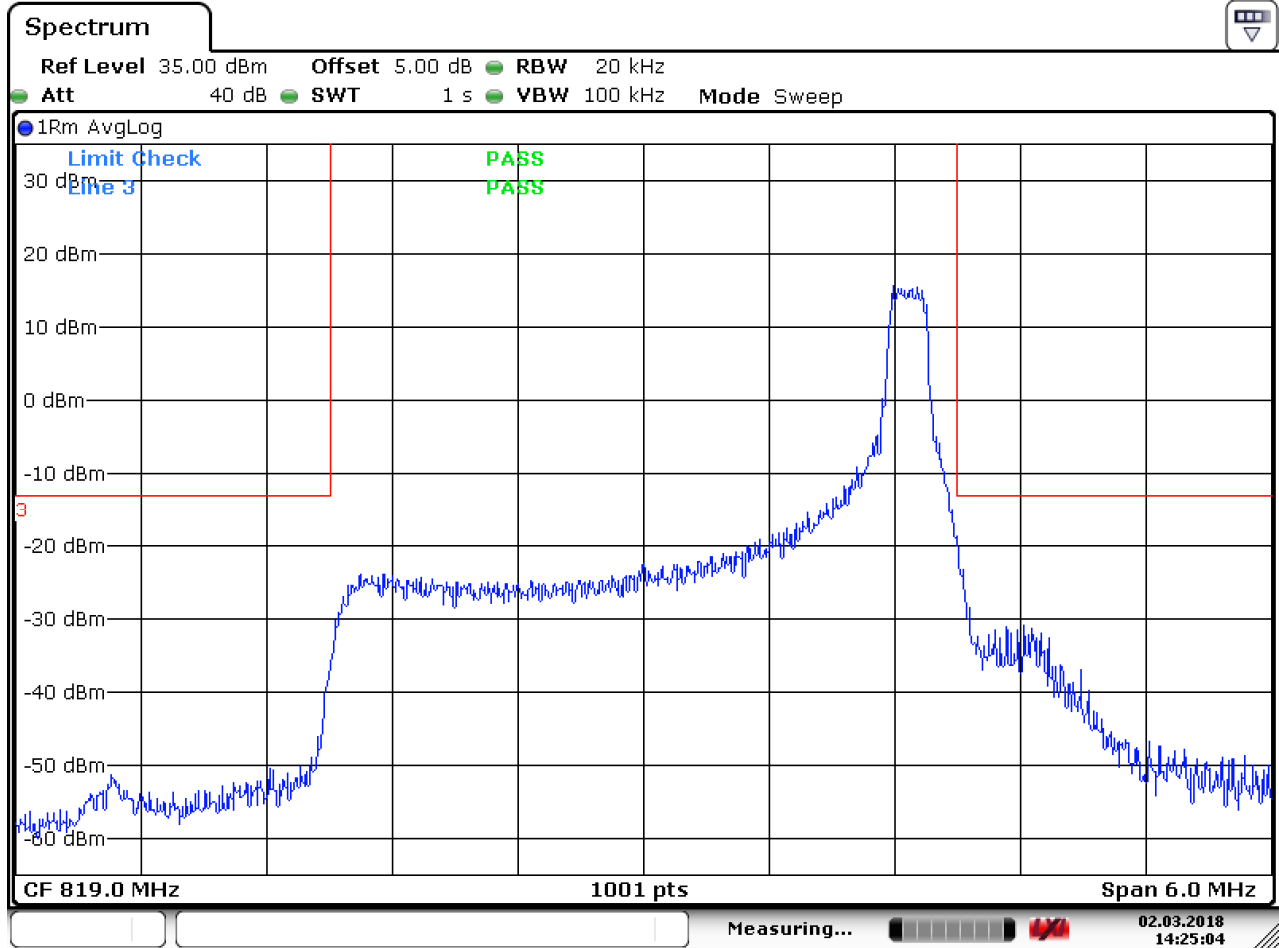
6.1.1.4.2 Test Channel = MCH

6.1.1.4.2.1 Test RB=1RB#0



Date: 2.MAR.2018 14:24:40

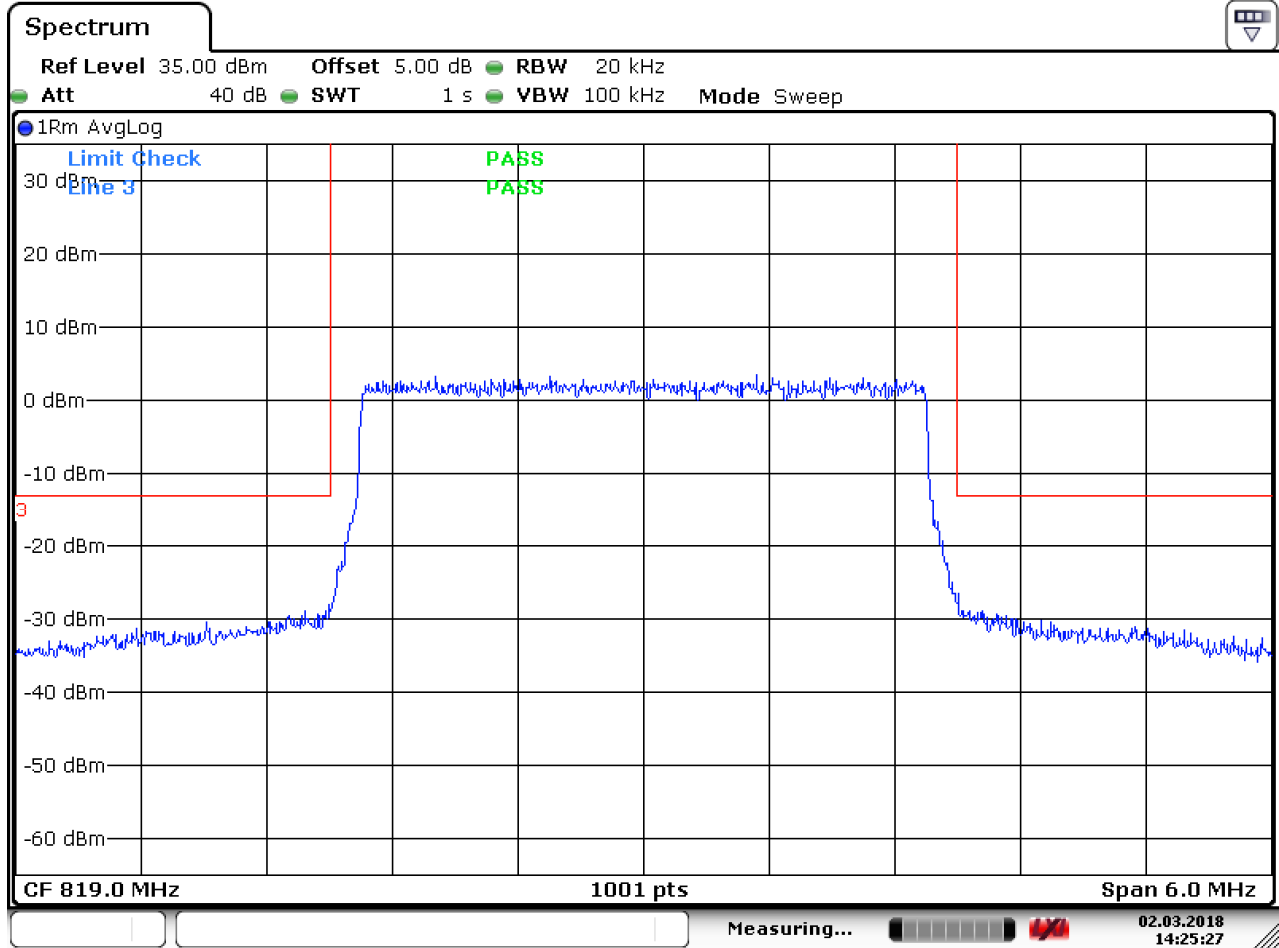
6.1.1.4.2.2 Test RB=1RB#14



Date: 2.MAR.2018 14:25:04



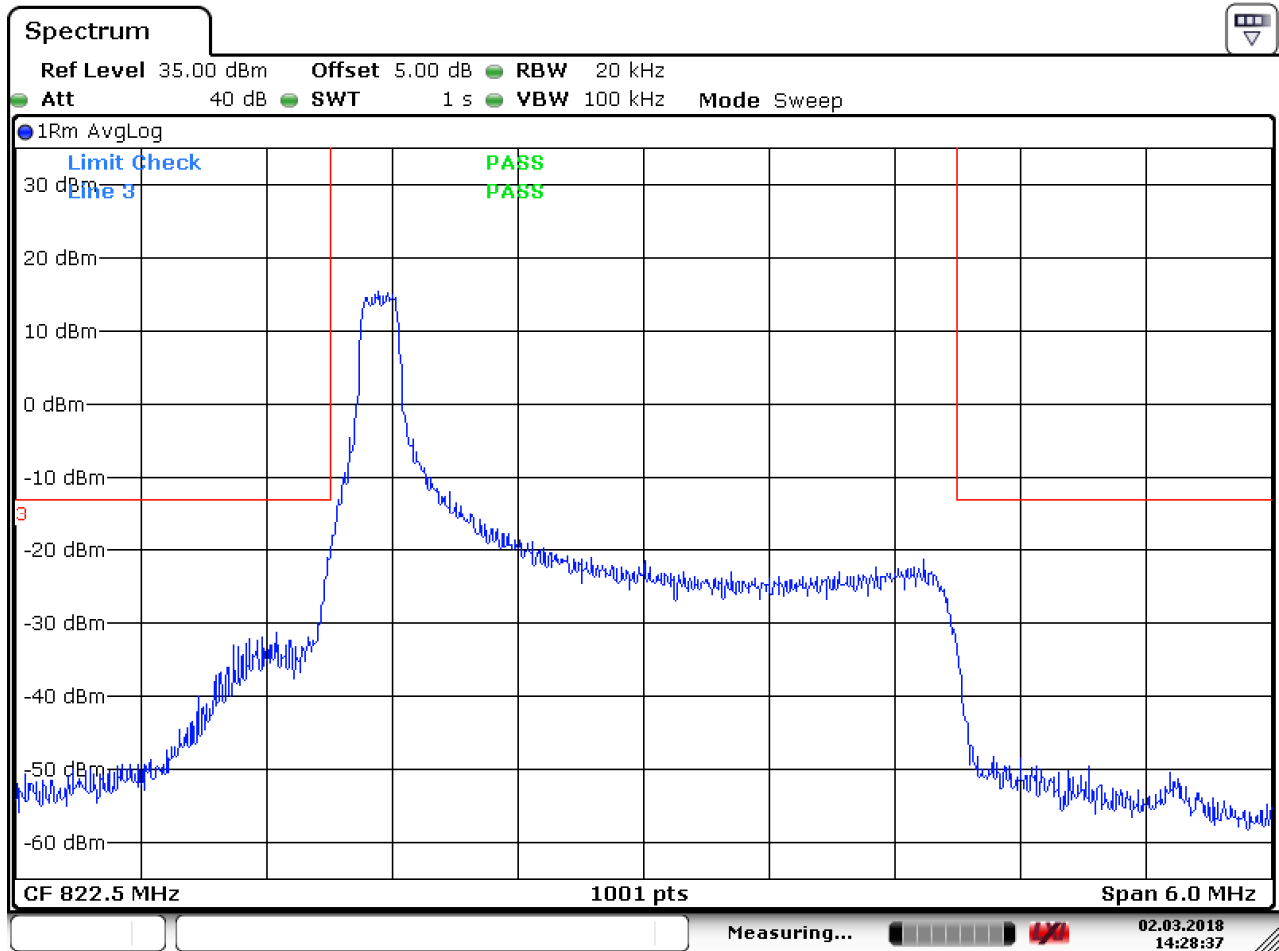
6.1.1.4.2.3 Test RB=15RB



Date: 2.MAR.2018 14:25:28

6.1.1.4.3 Test Channel = HCH

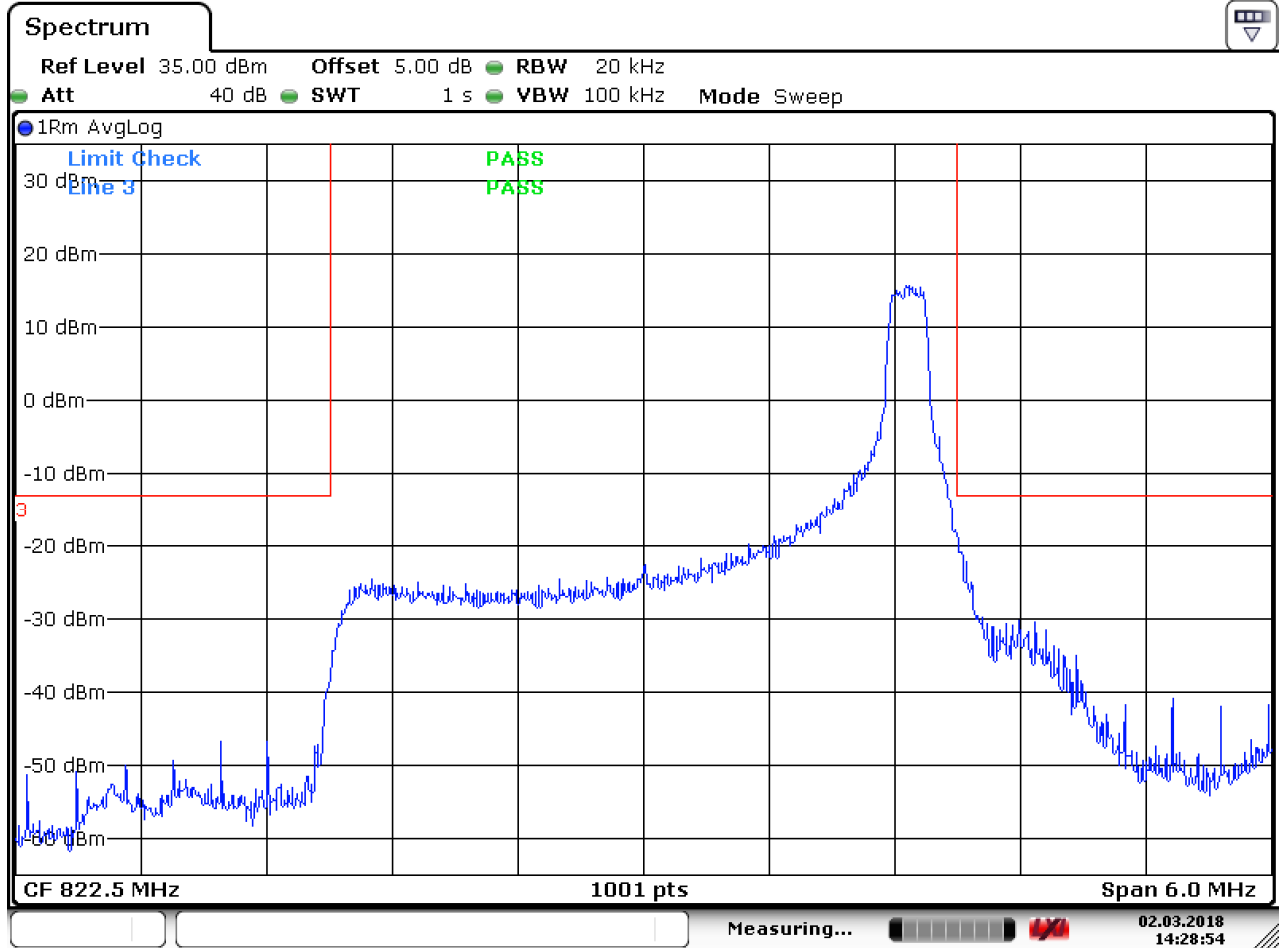
6.1.1.4.3.1 Test RB=1RB#0



Date: 2.MAR.2018 14:28:37



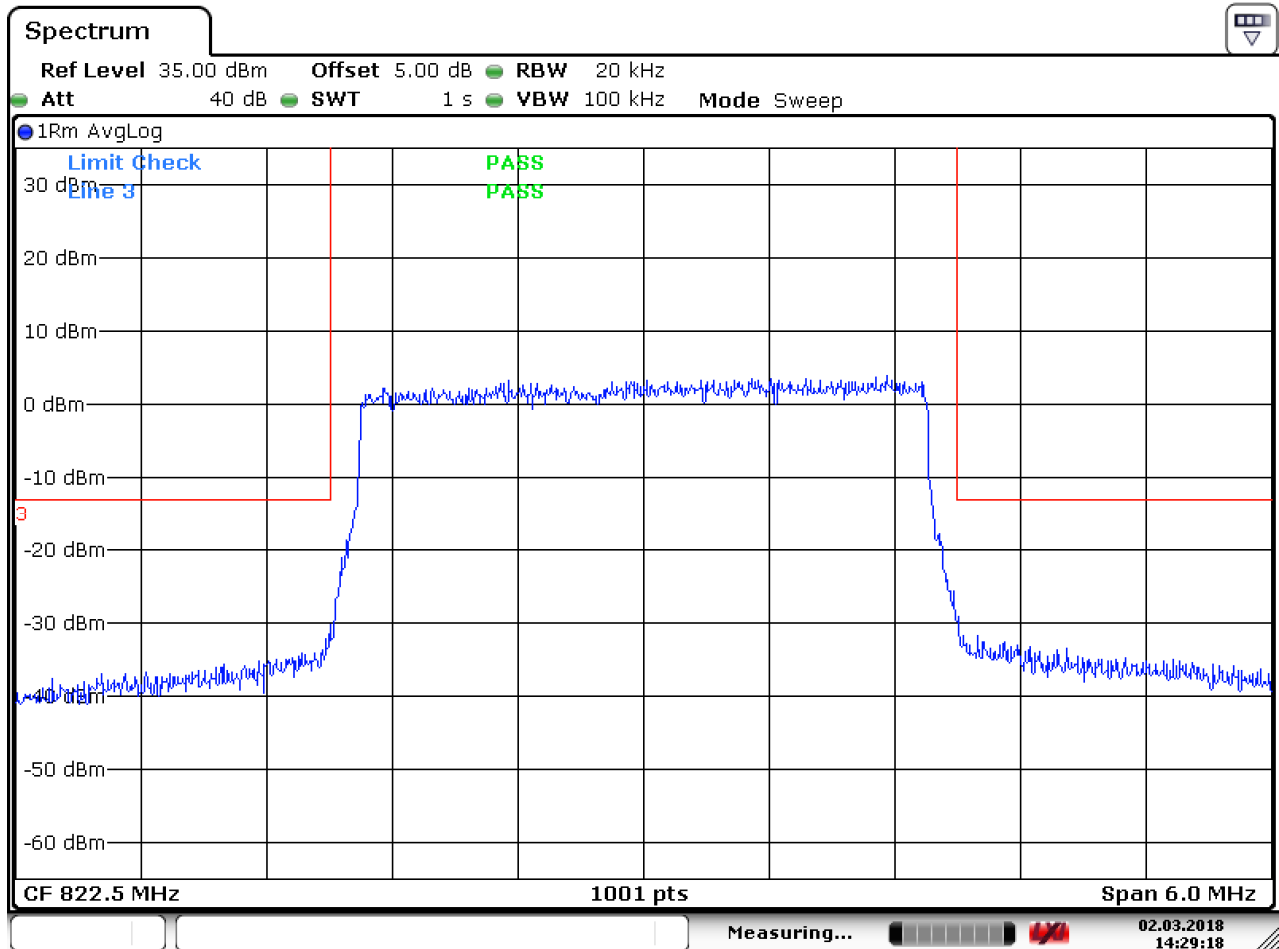
6.1.1.4.3.2 Test RB=1RB#14



Date: 2.MAR.2018 14:28:55



6.1.1.4.3.3 Test RB=15RB

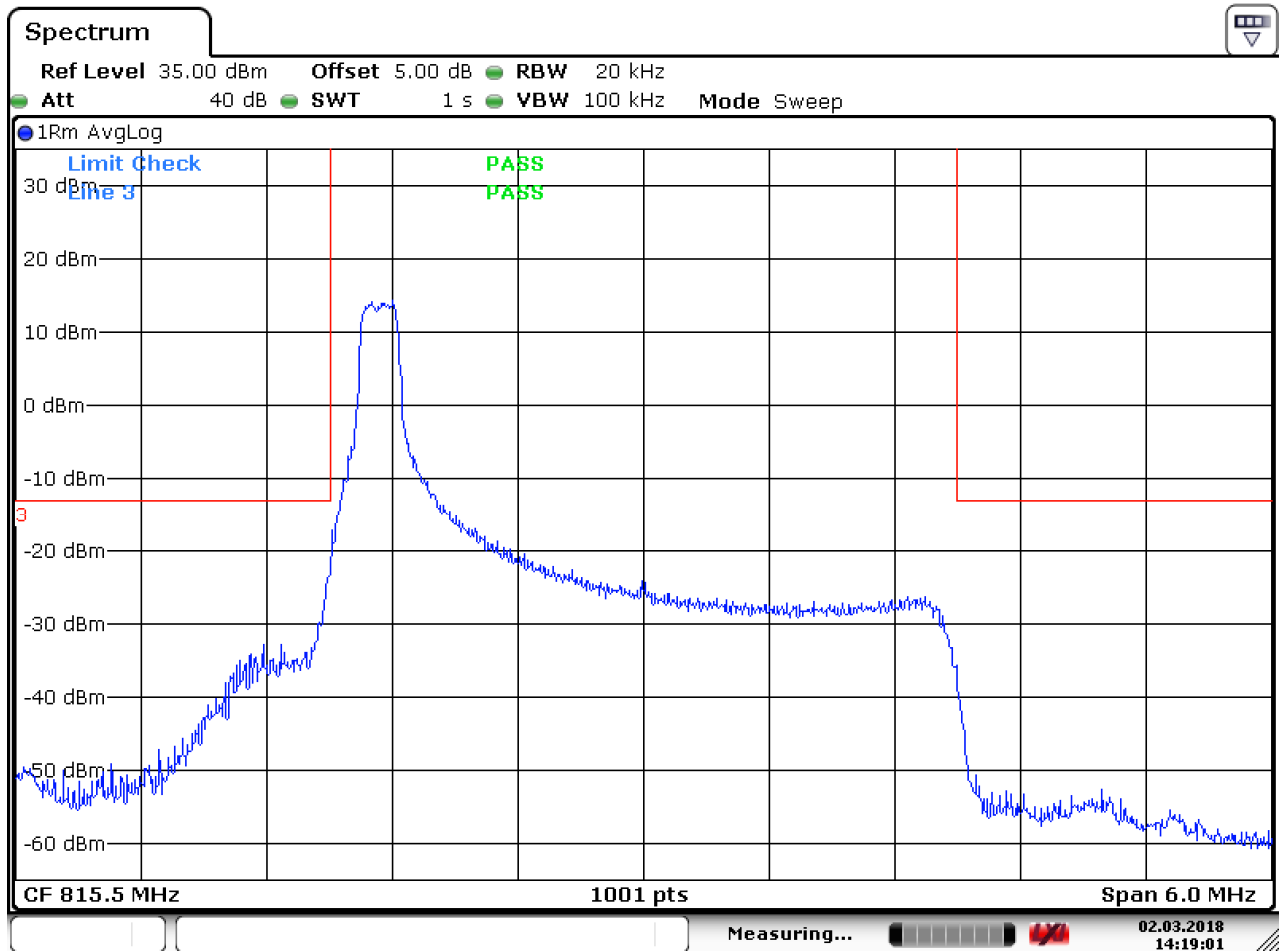


Date: 2.MAR.2018 14:29:18

6.1.1.5 Test Mode = LTE/TM2 3MHz

6.1.1.5.1 Test Channel = LCH

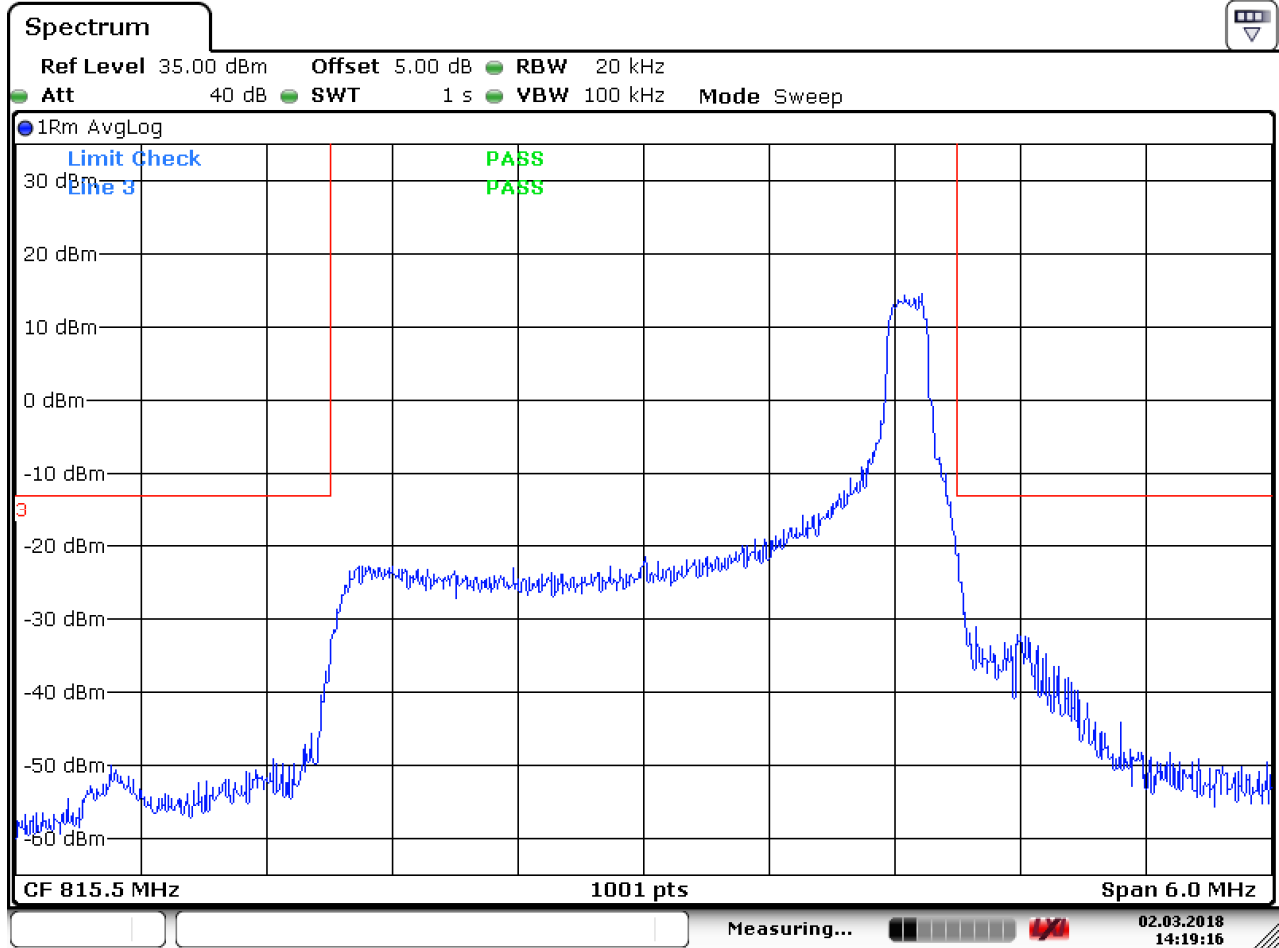
6.1.1.5.1.1 Test RB=1RB#0



Date: 2.MAR.2018 14:19:01



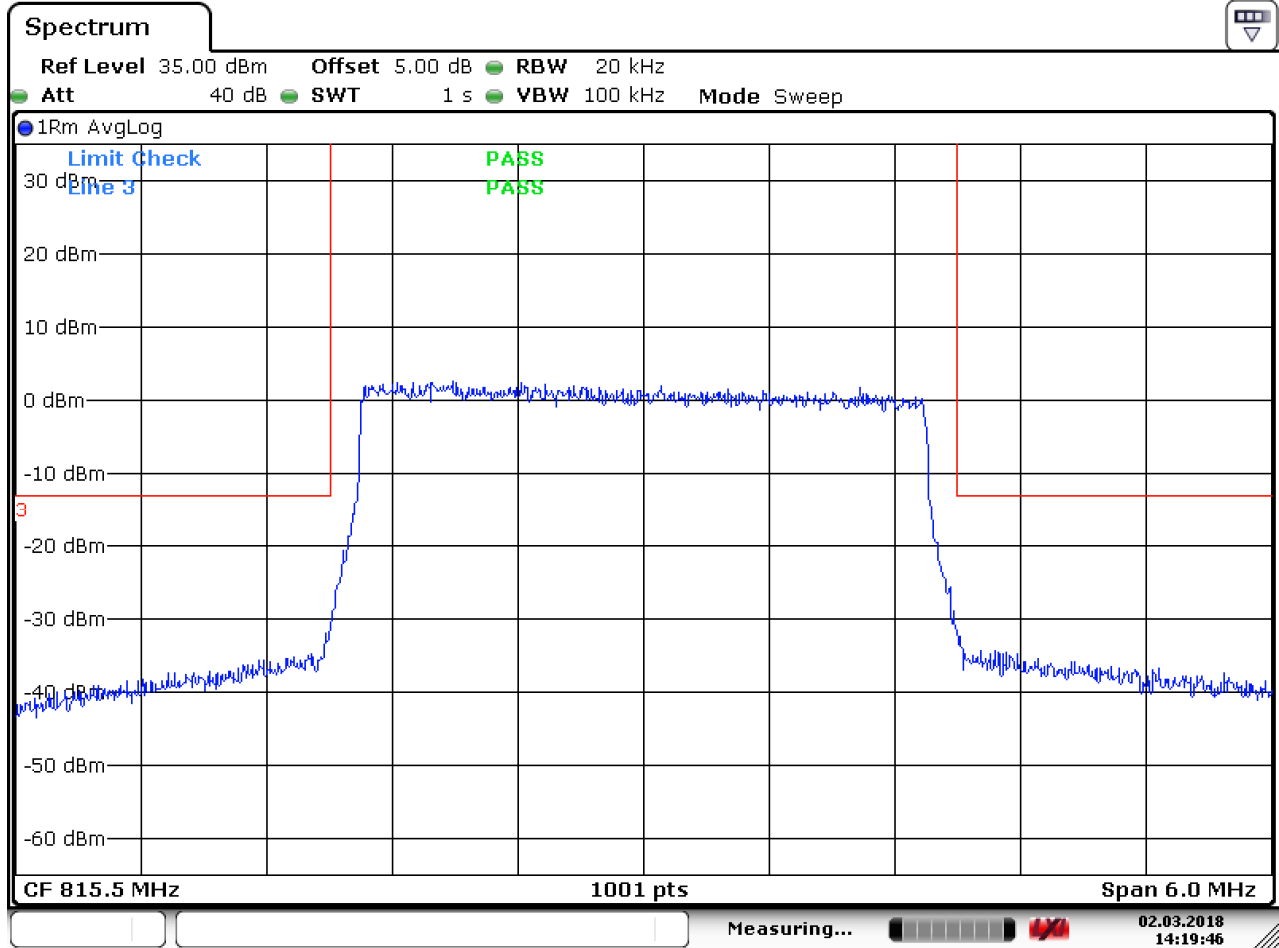
6.1.1.5.1.2 Test RB=1RB#14



Date: 2.MAR.2018 14:19:17



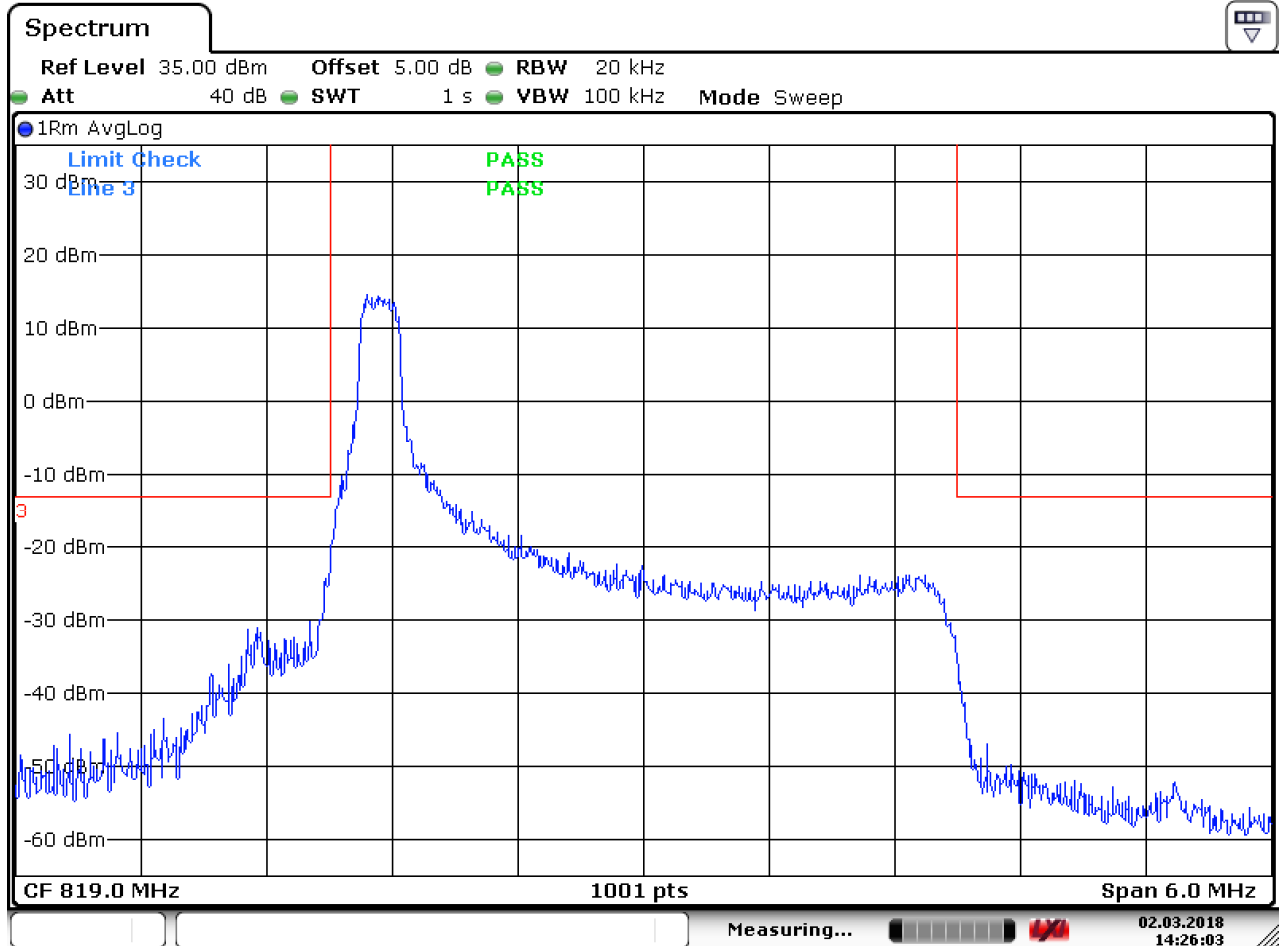
6.1.1.5.1.3 Test RB=15RB



Date: 2.MAR.2018 14:19:46

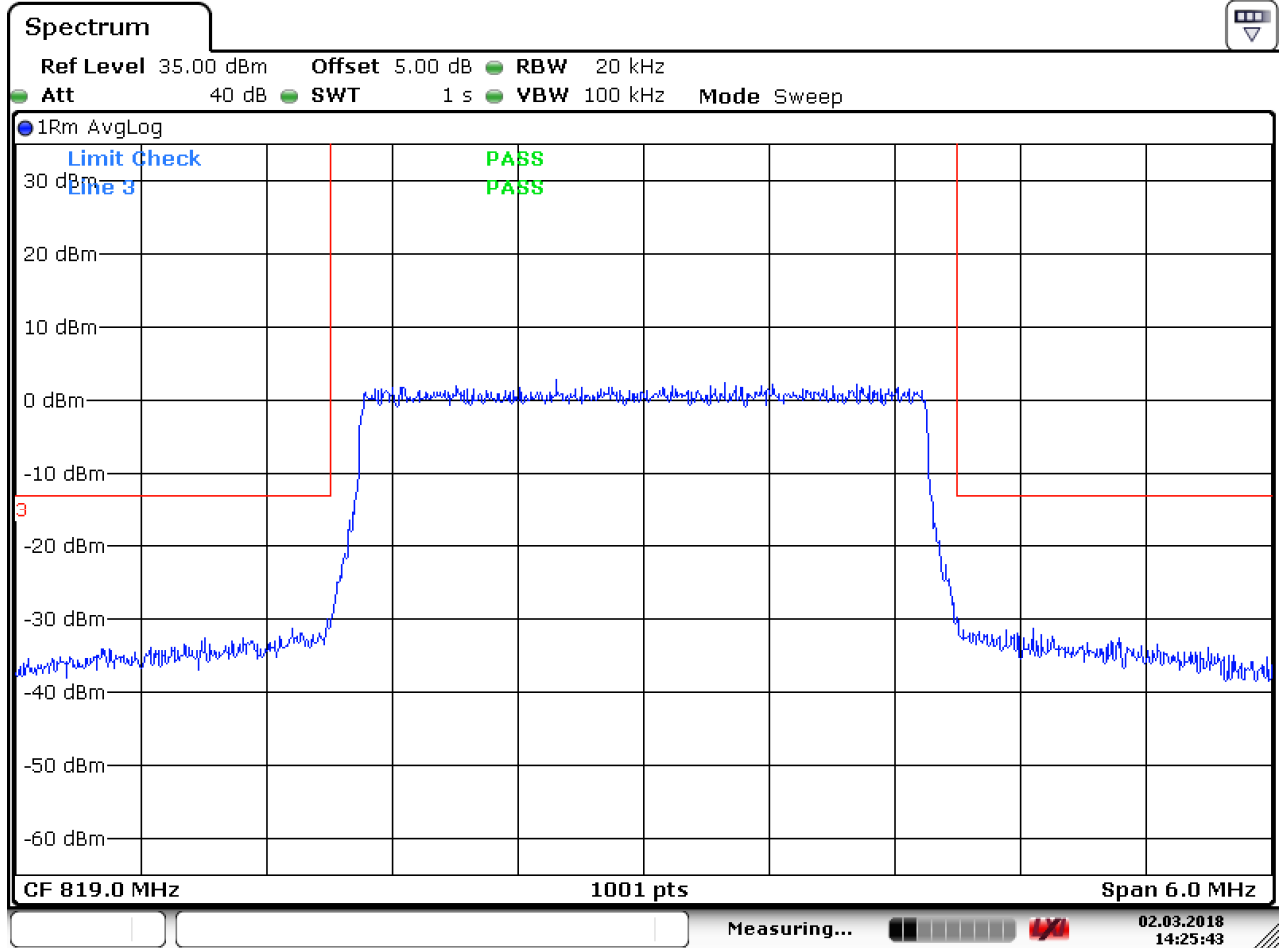
6.1.1.5.2 Test Channel = MCH

6.1.1.5.2.1 Test RB=1RB#0



Date: 2.MAR.2018 14:26:03

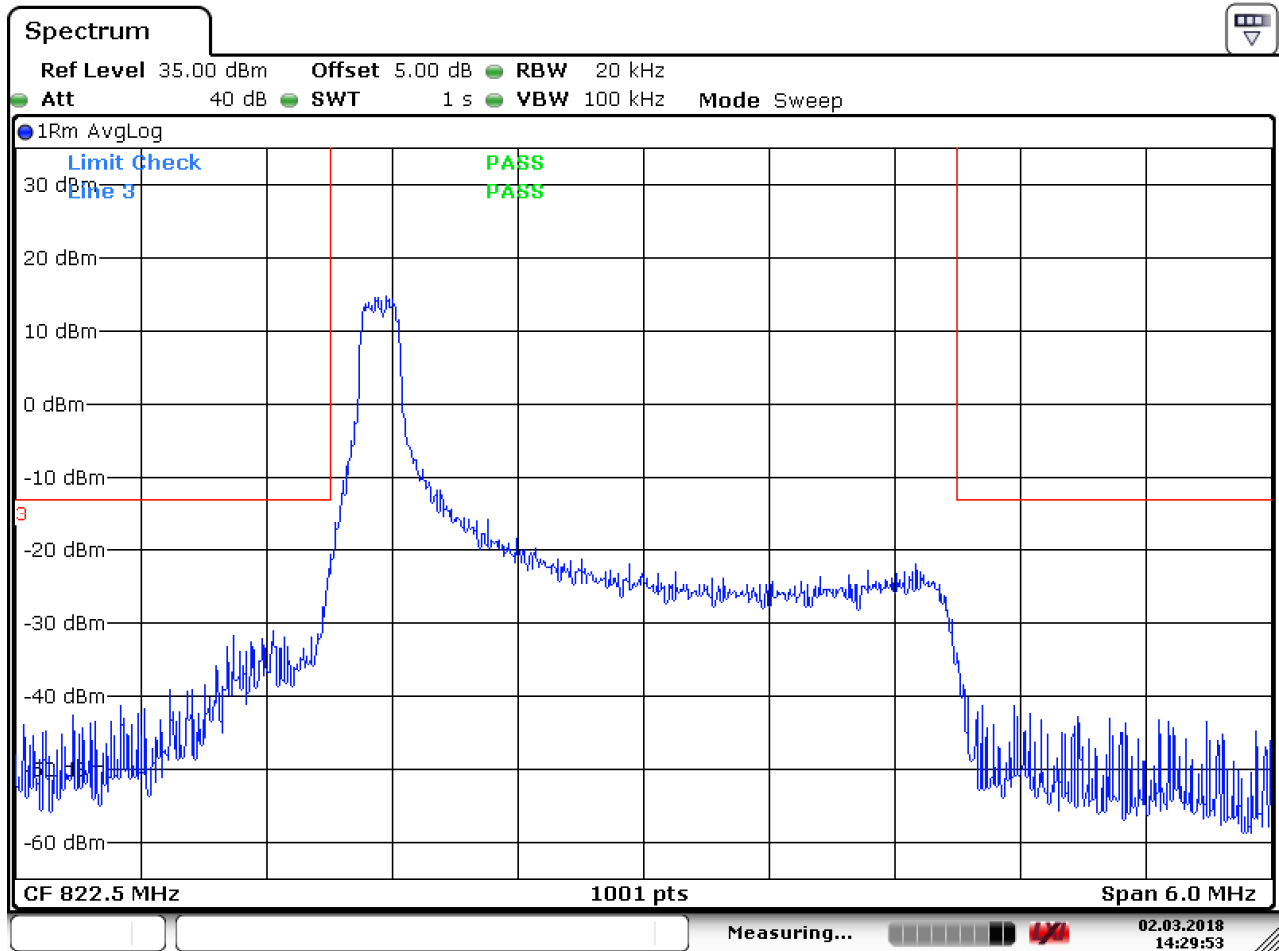
6.1.1.5.2.3 Test RB=15RB



Date: 2.MAR.2018 14:25:44

6.1.1.5.3 Test Channel = HCH

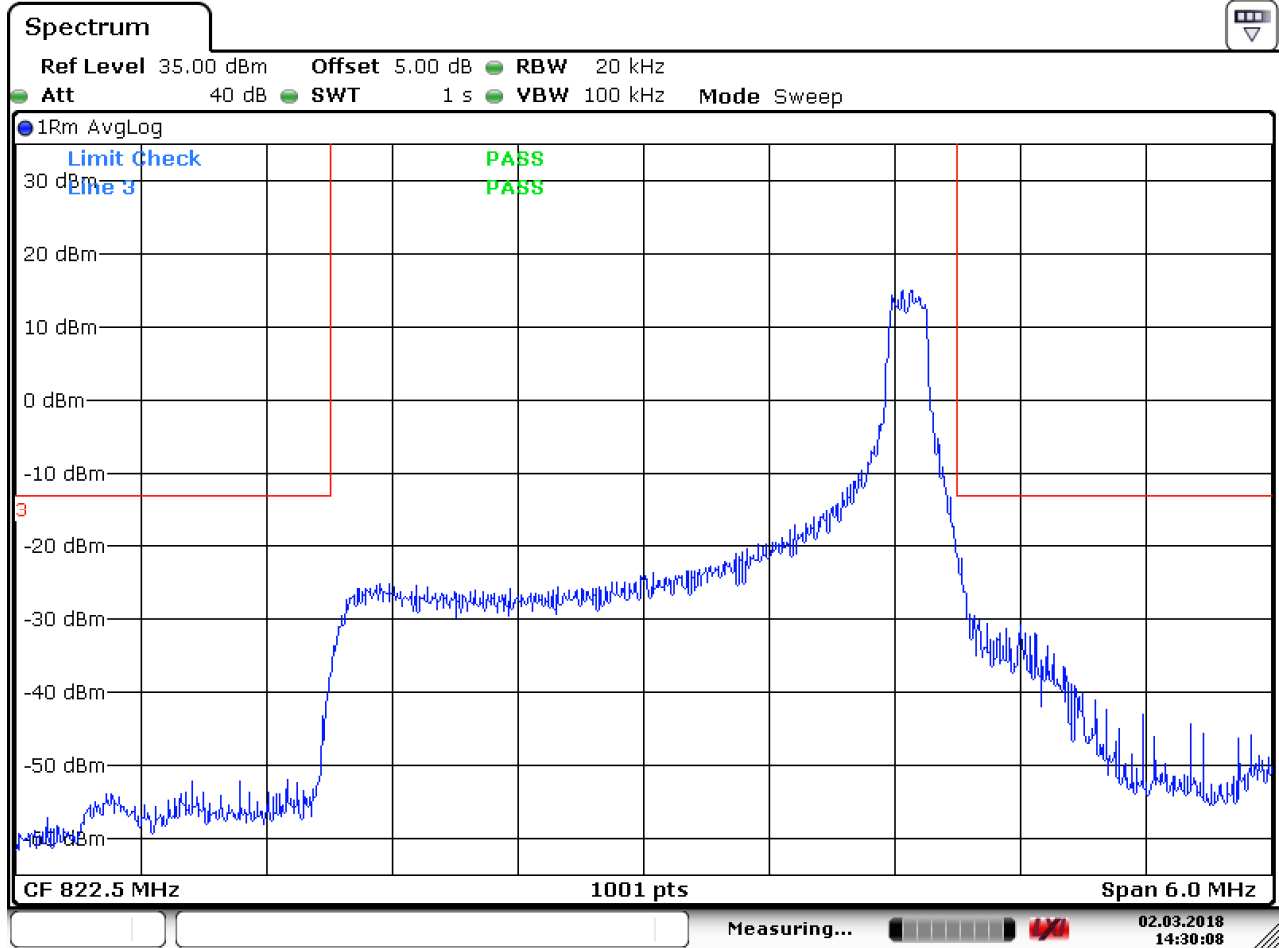
6.1.1.5.3.1 Test RB=1RB#0



Date: 2.MAR.2018 14:29:53



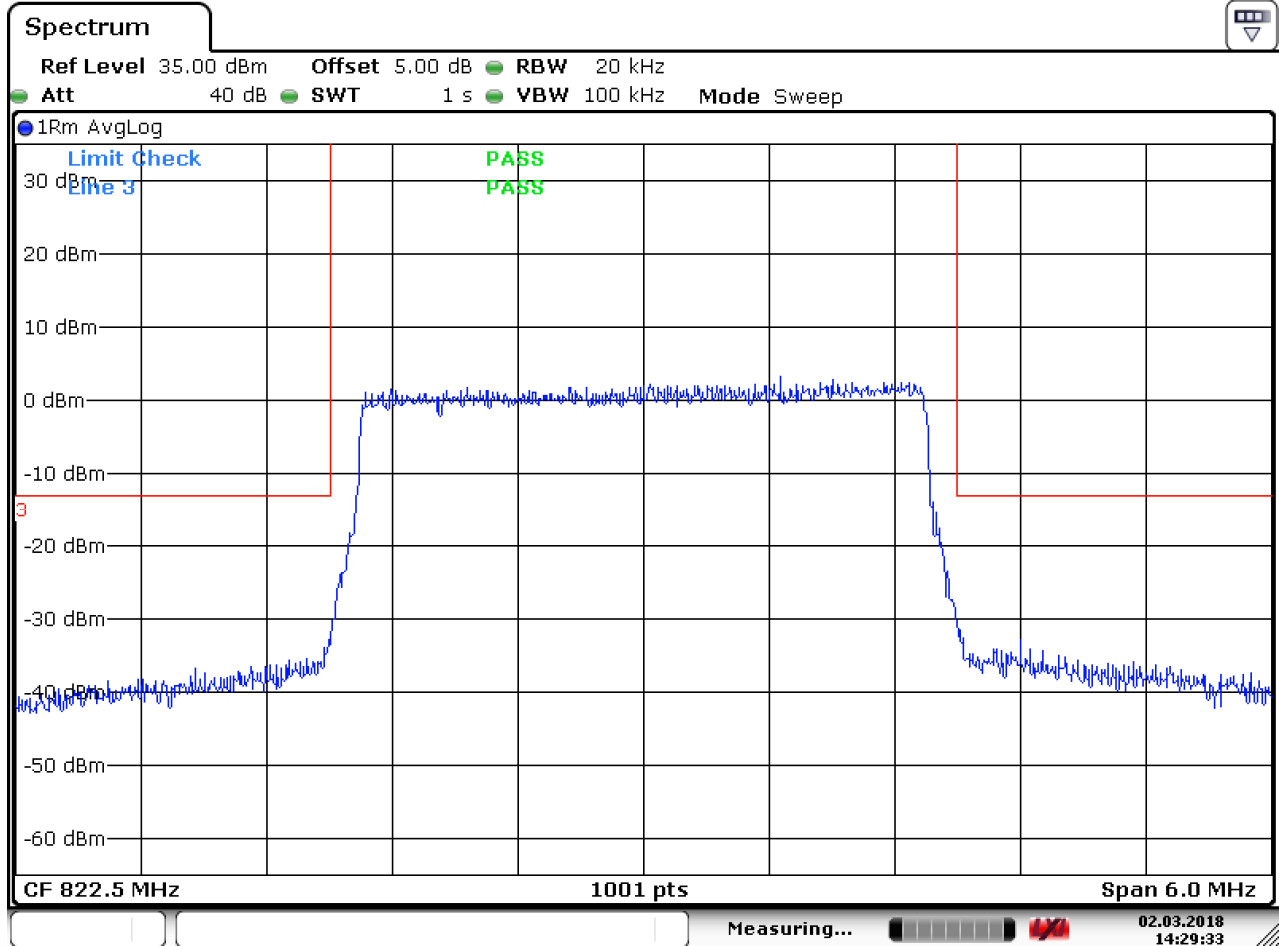
6.1.1.5.3.2 Test RB=1RB#14



Date: 2.MAR.2018 14:30:08



6.1.1.5.3.3 Test RB=15RB

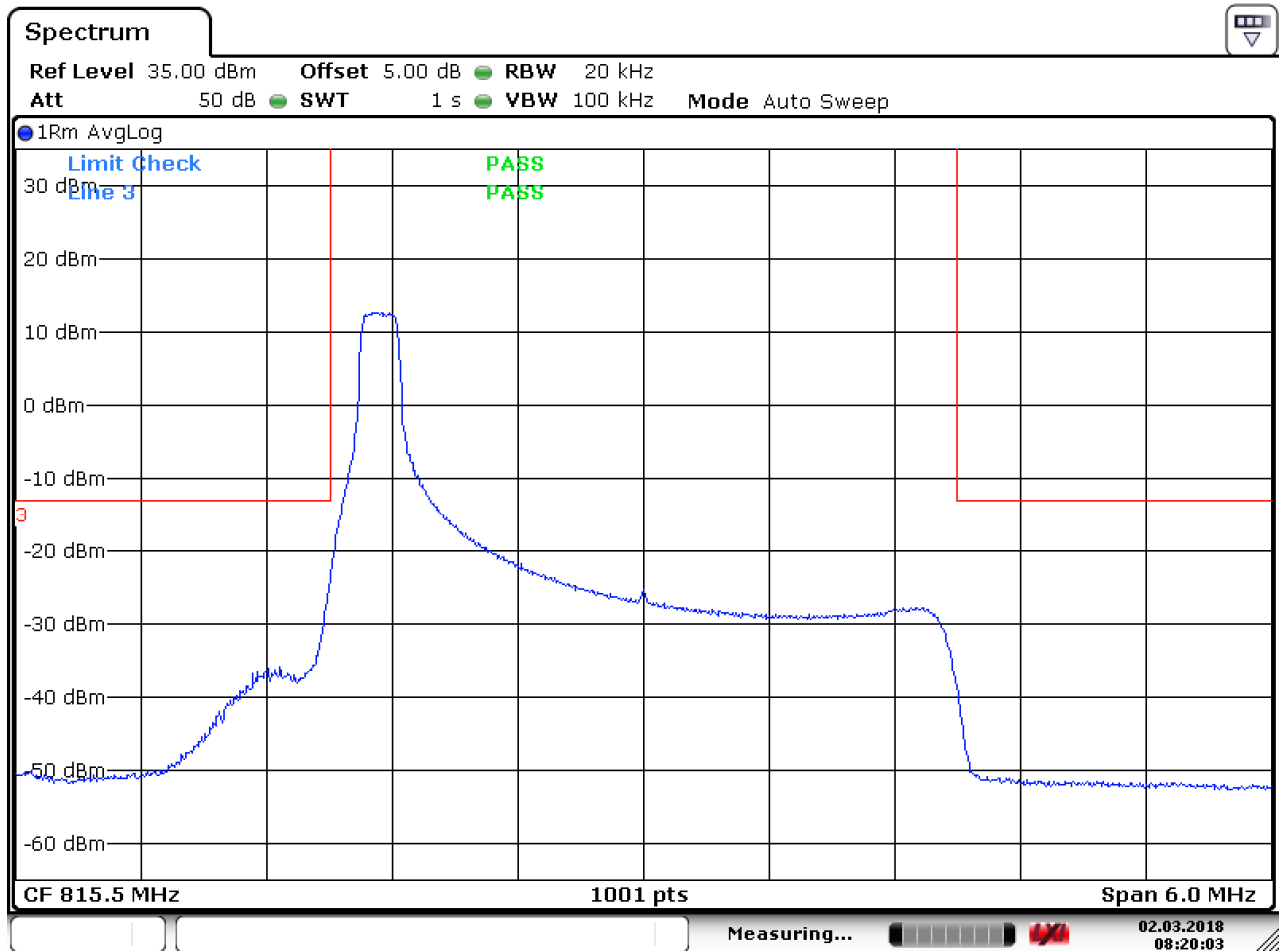


Date: 2.MAR.2018 14:29:33

6.1.1.6 Test Mode = LTE/TM3 3MHz

6.1.1.6.1 Test Channel = LCH

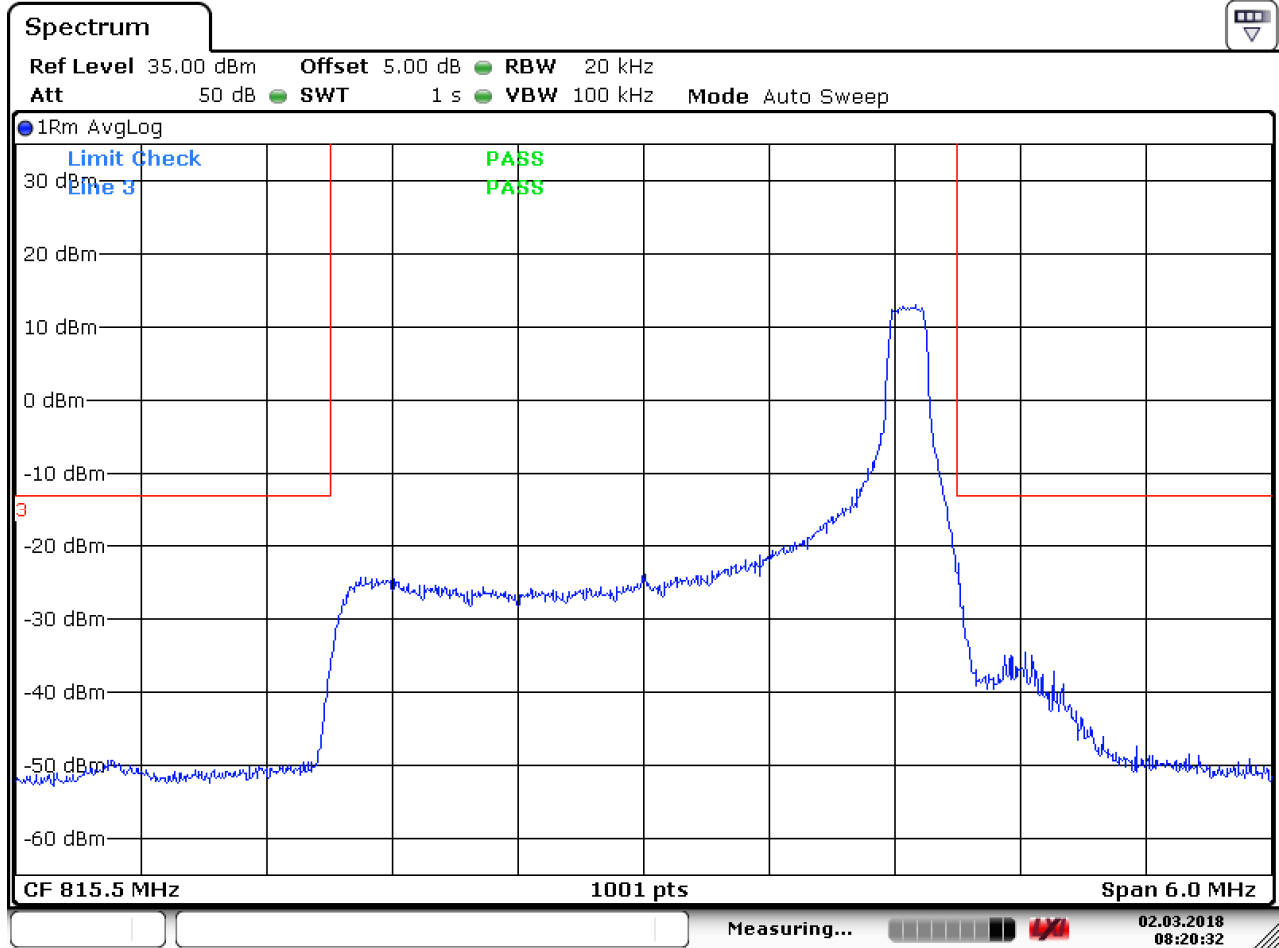
6.1.1.6.1.1 Test RB=1RB#0



Date: 2.MAR.2018 08:20:04



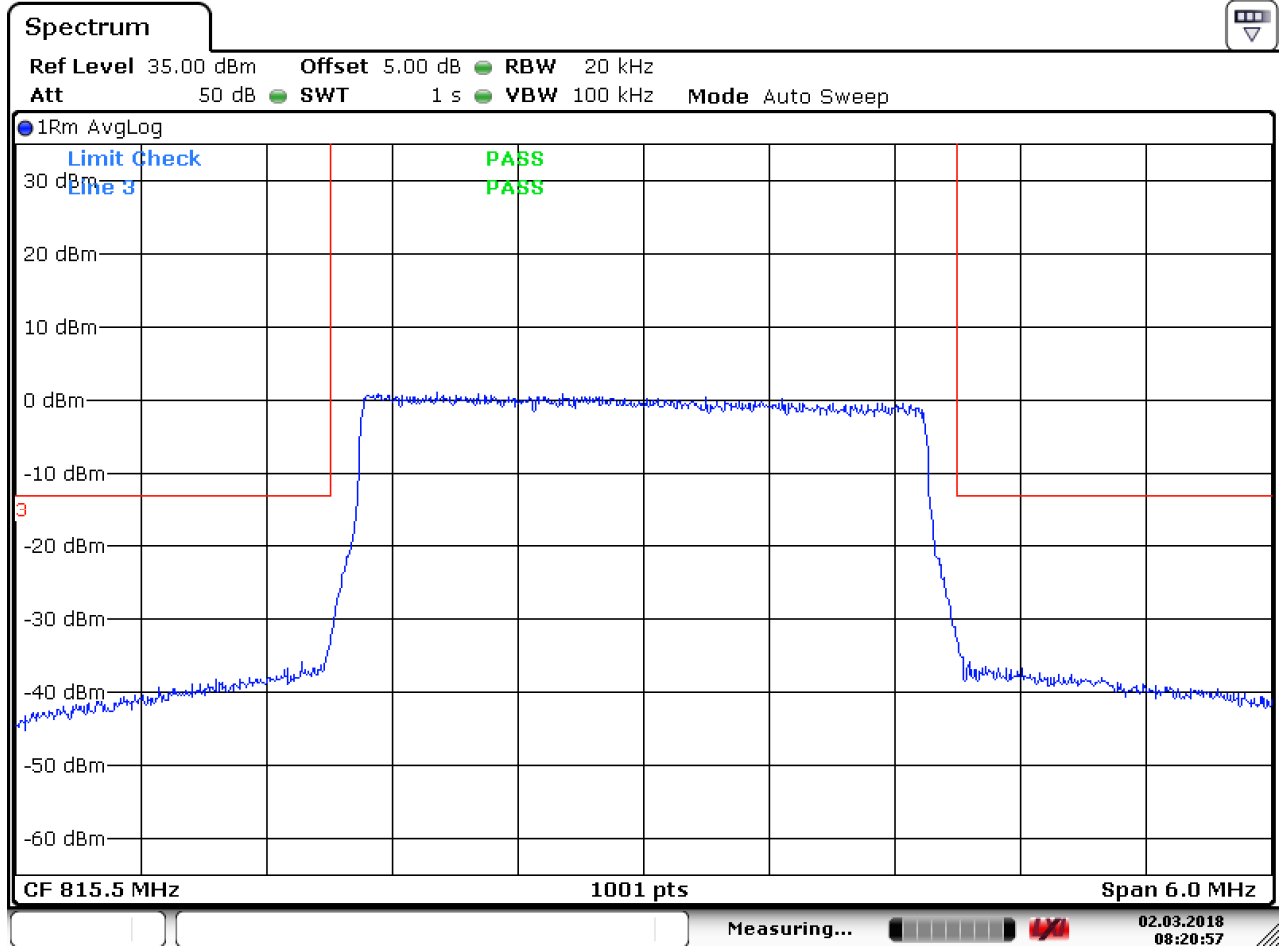
6.1.1.6.1.2 Test RB=1RB#14



Date: 2.MAR.2018 08:20:33



6.1.1.6.1.3 Test RB=15RB

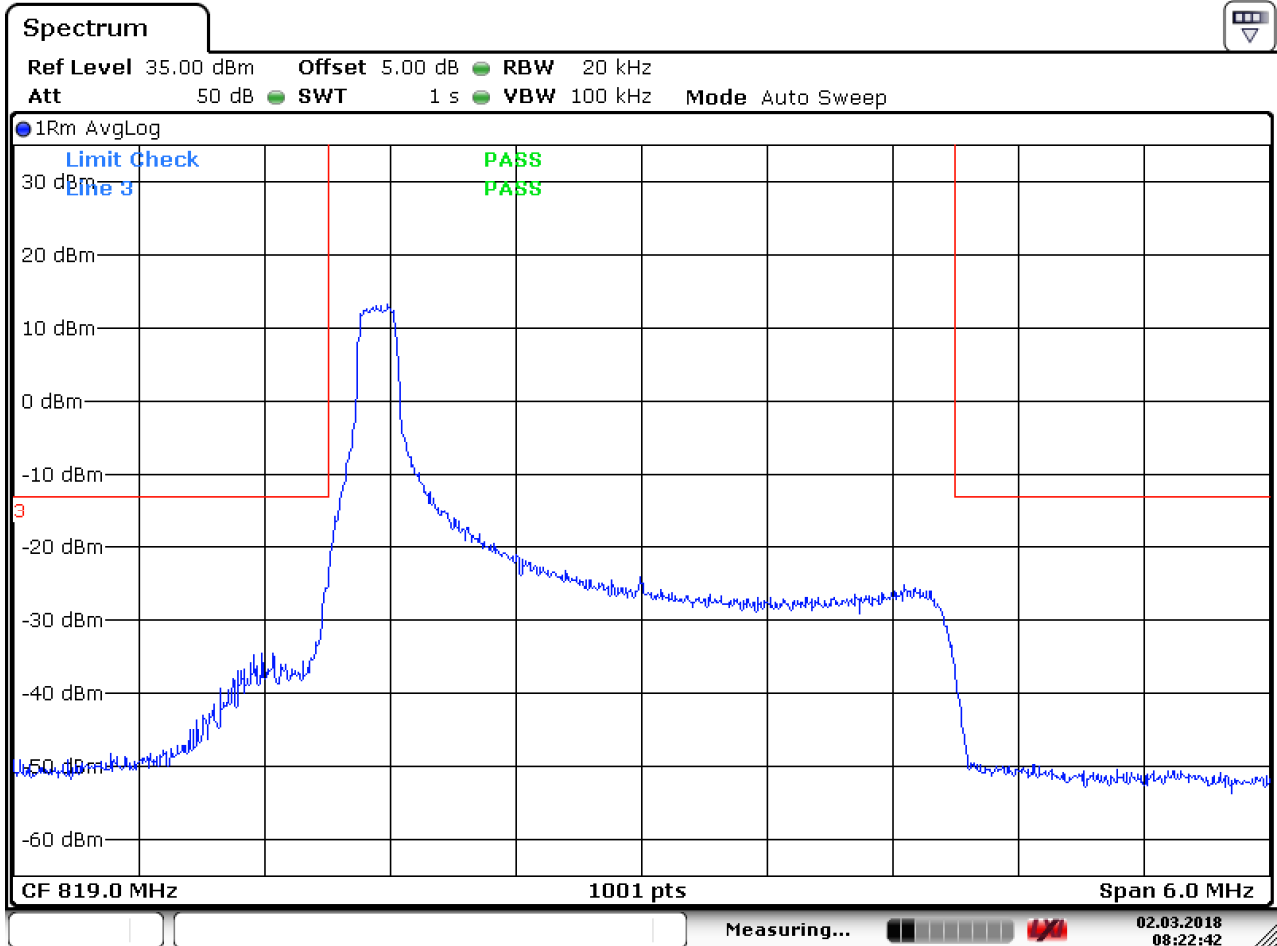


Date: 2.MAR.2018 08:20:57



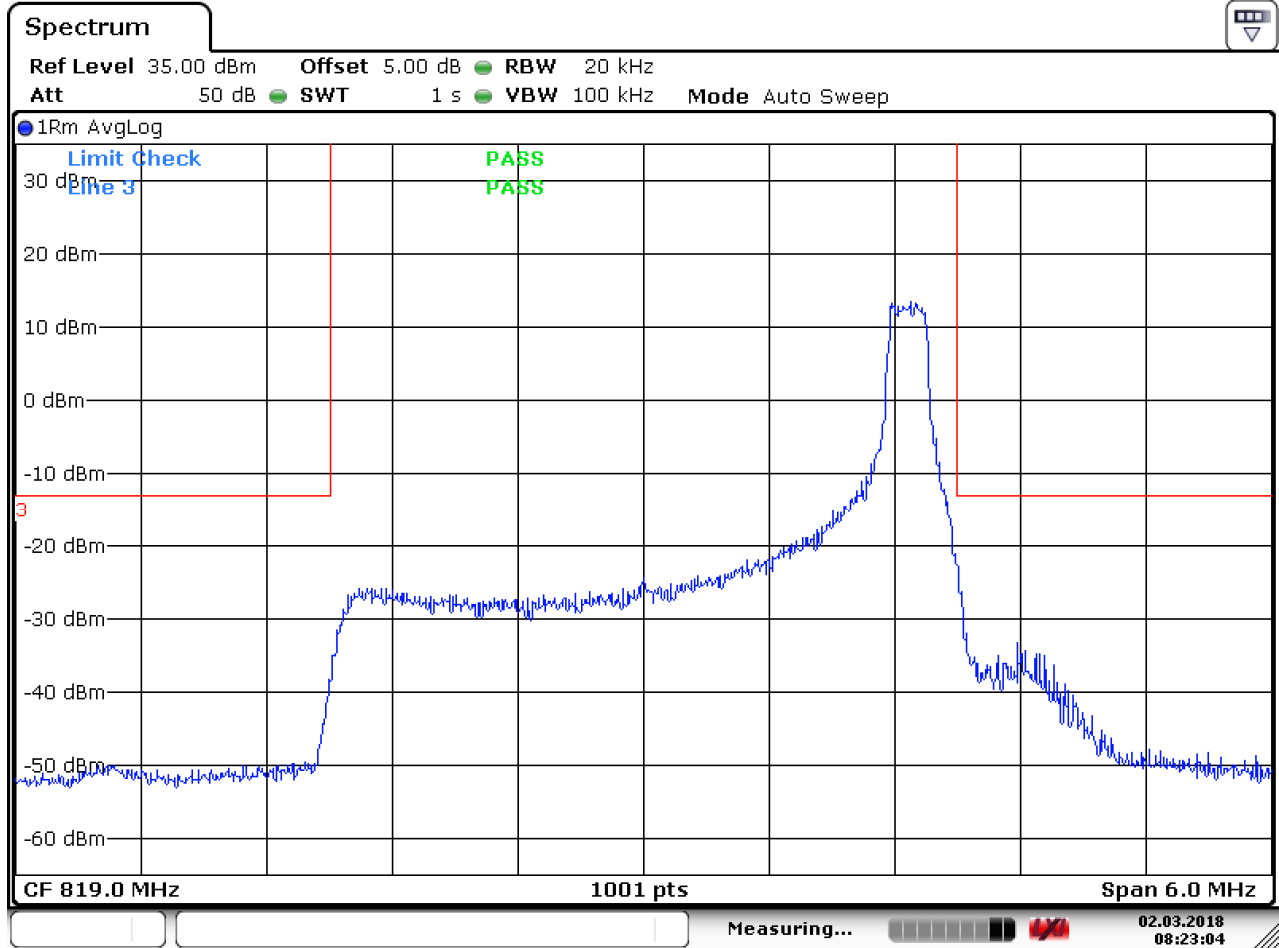
6.1.1.6.2 Test Channel = MCH

6.1.1.6.2.1 Test RB=1RB#0



Date: 2.MAR.2018 08:22:43

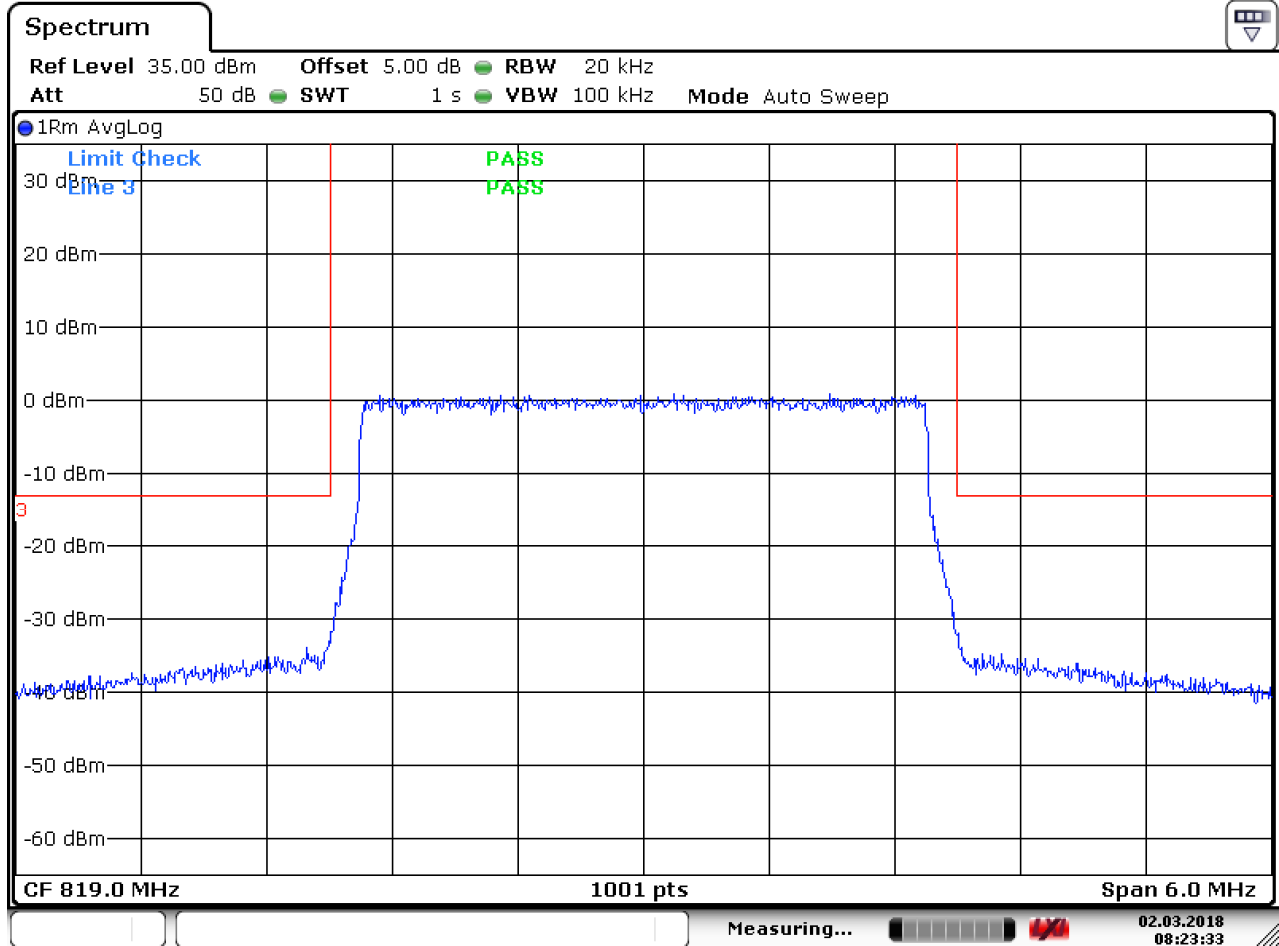
6.1.1.6.2.2 Test RB=1RB#14



Date: 2.MAR.2018 08:23:04



6.1.1.6.2.3 Test RB=15RB

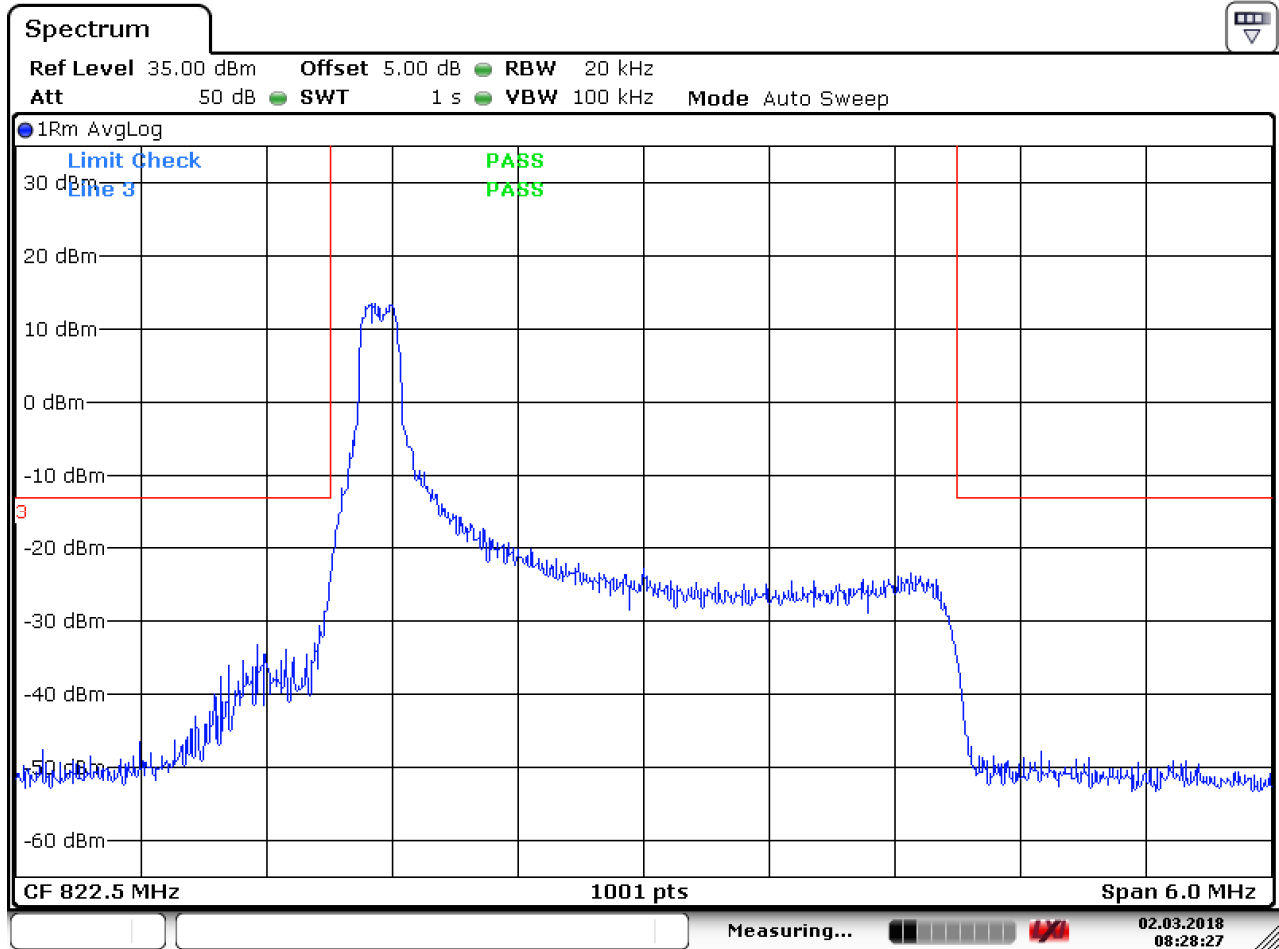


Date: 2.MAR.2018 08:23:33



6.1.1.6.3 Test Channel = HCH

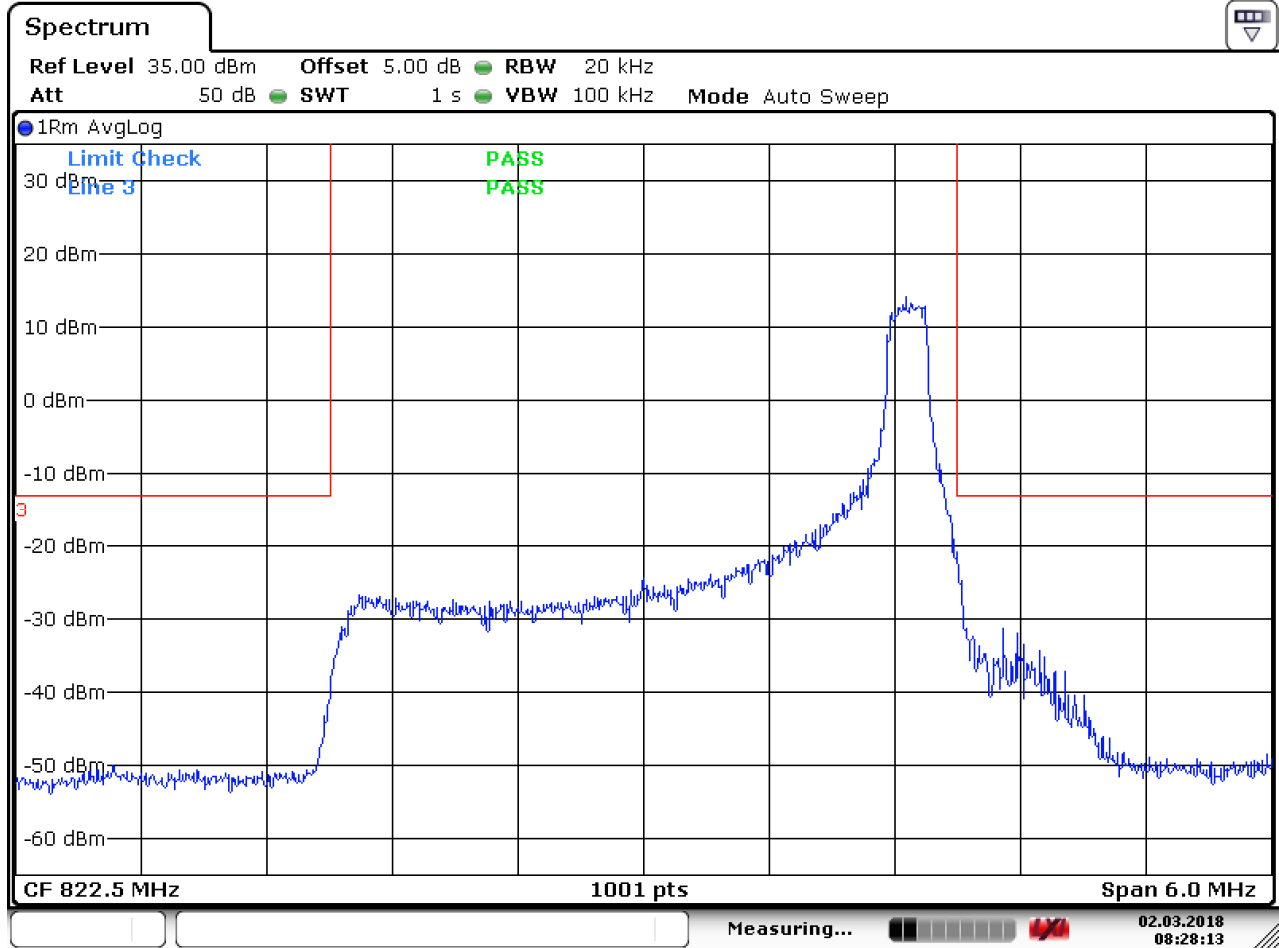
6.1.1.6.3.1 Test RB=1RB#0



Date: 2.MAR.2018 08:28:27



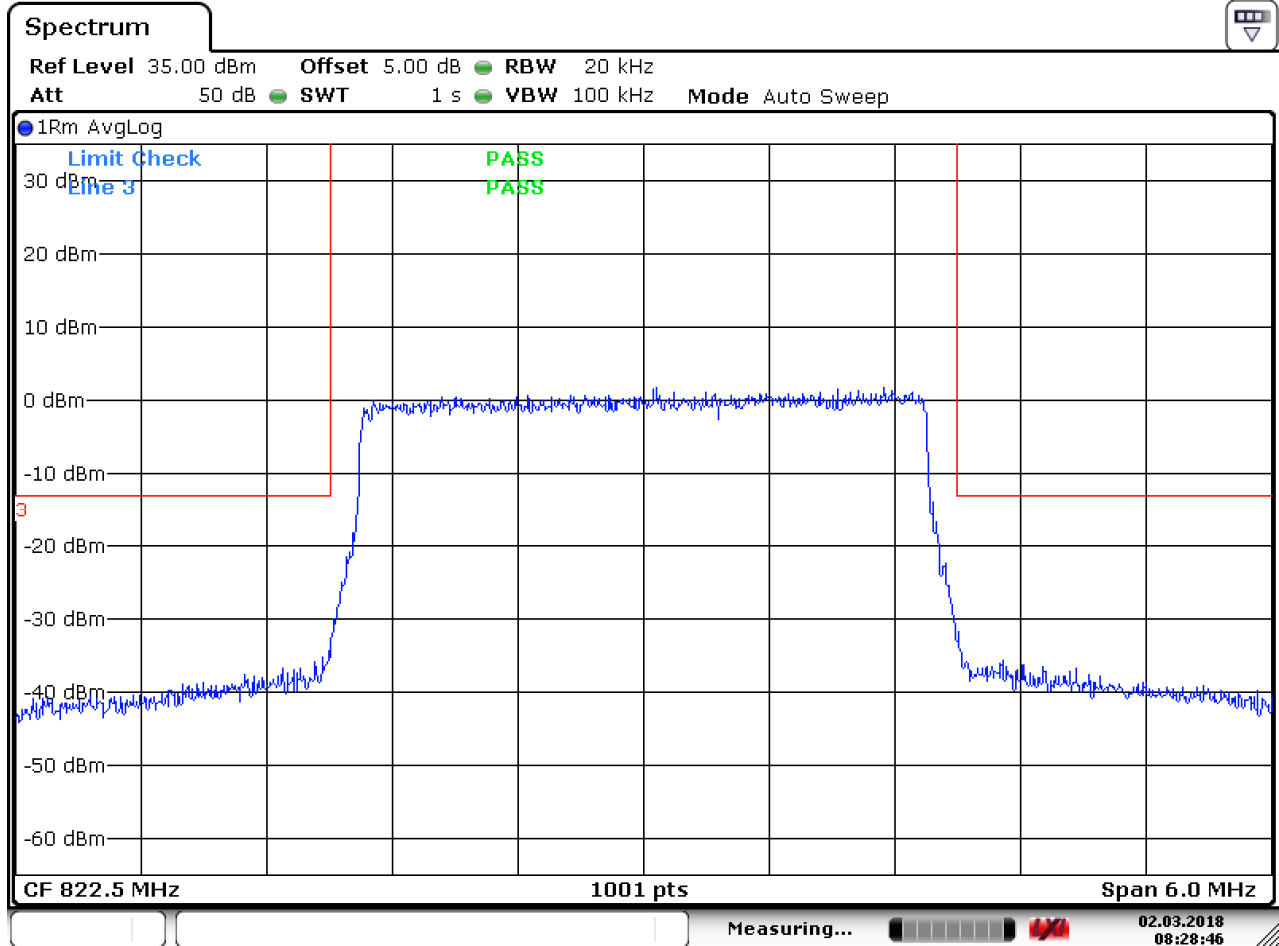
6.1.1.6.3.2 Test RB=1RB#14



Date: 2.MAR.2018 08:28:13



6.1.1.6.3.3 Test RB=15RB



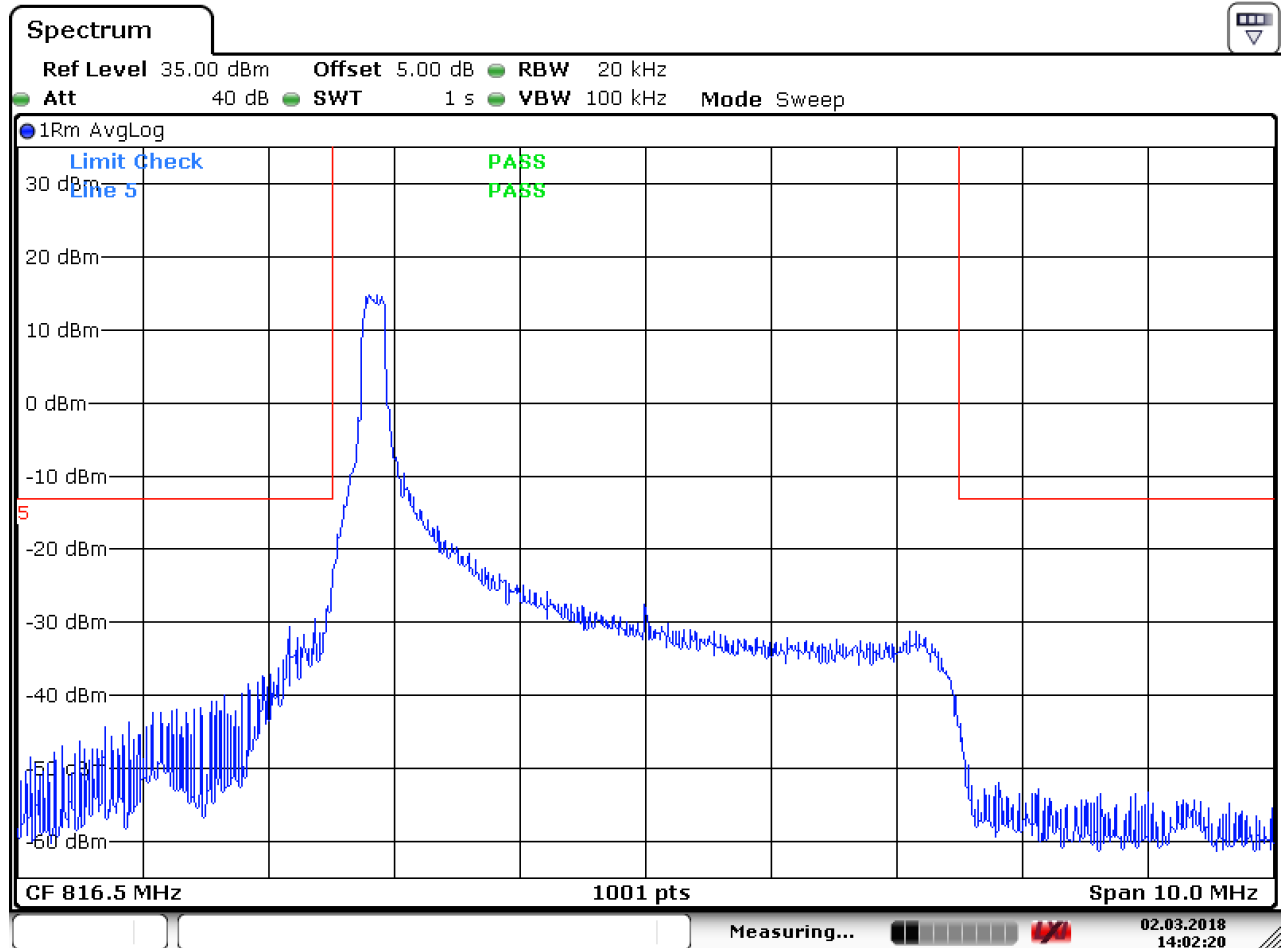
Date: 2.MAR.2018 08:28:47



6.1.1.7 Test Mode = LTE/TM1 5MHz

6.1.1.7.1 Test Channel = LCH

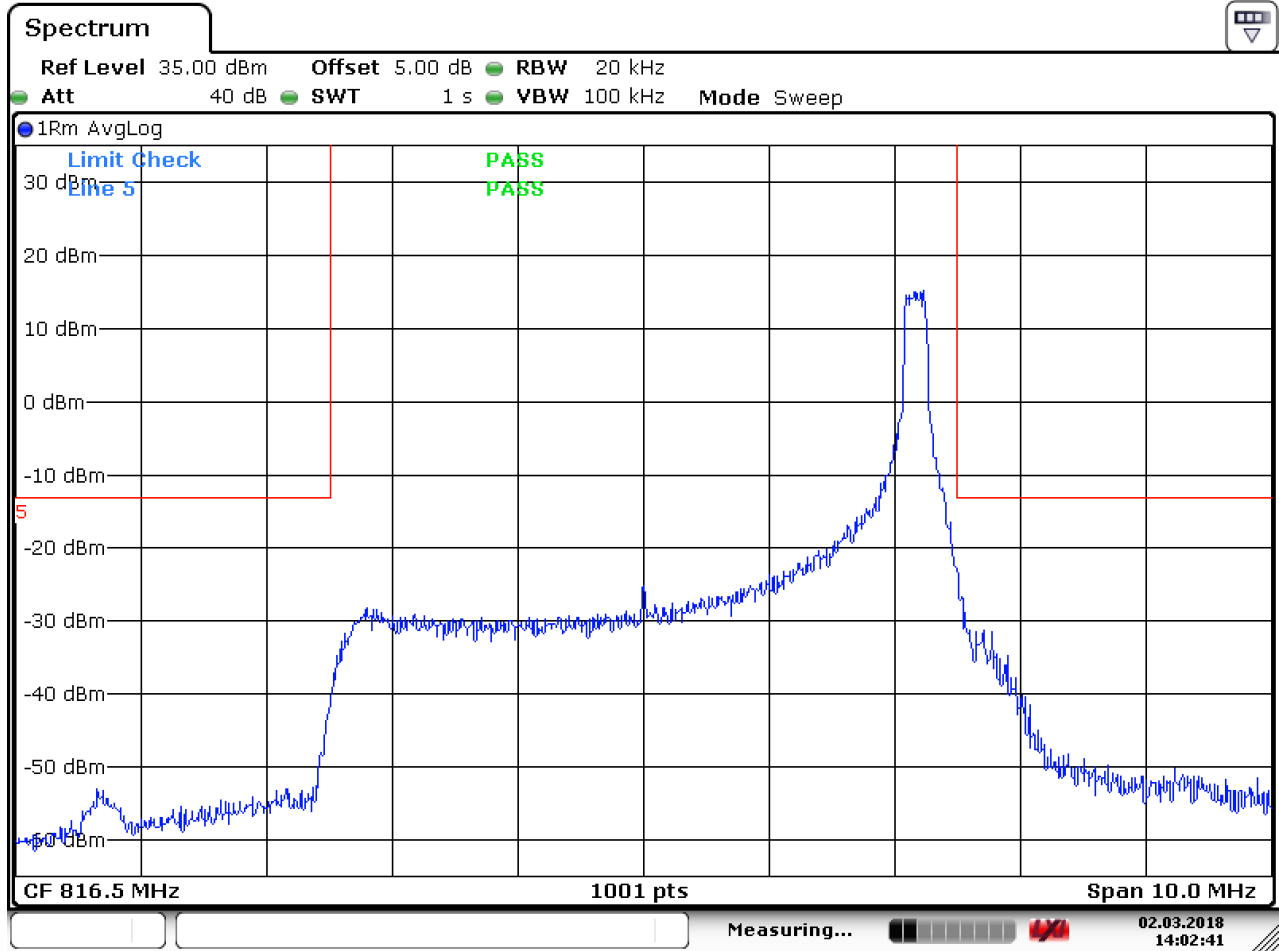
6.1.1.7.1.1 Test RB=1RB#0



Date: 2.MAR.2018 14:02:21



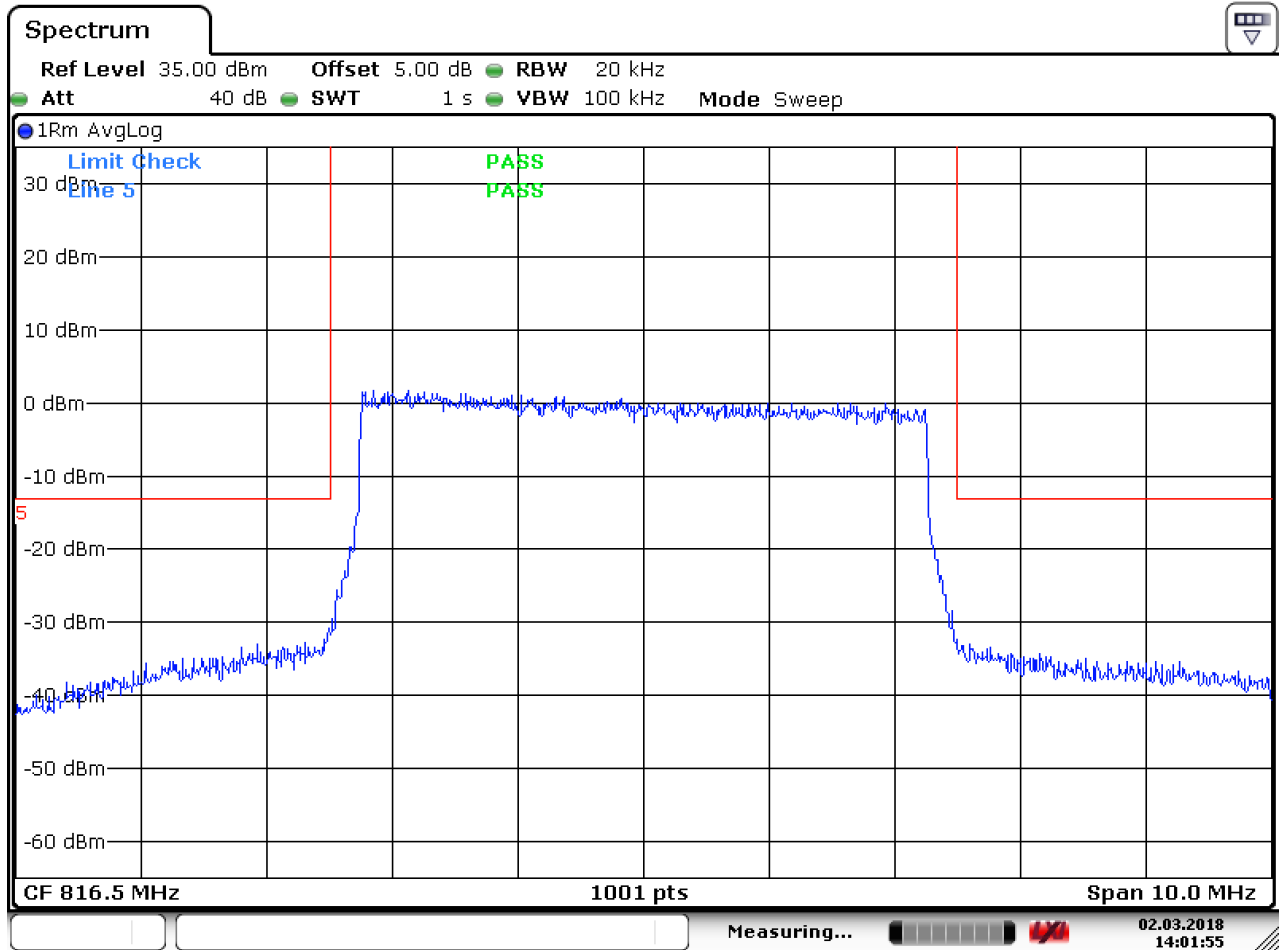
6.1.1.7.1.2 Test RB=1RB#24



Date: 2.MAR.2018 14:02:41



6.1.1.7.1.3 Test RB=25RB

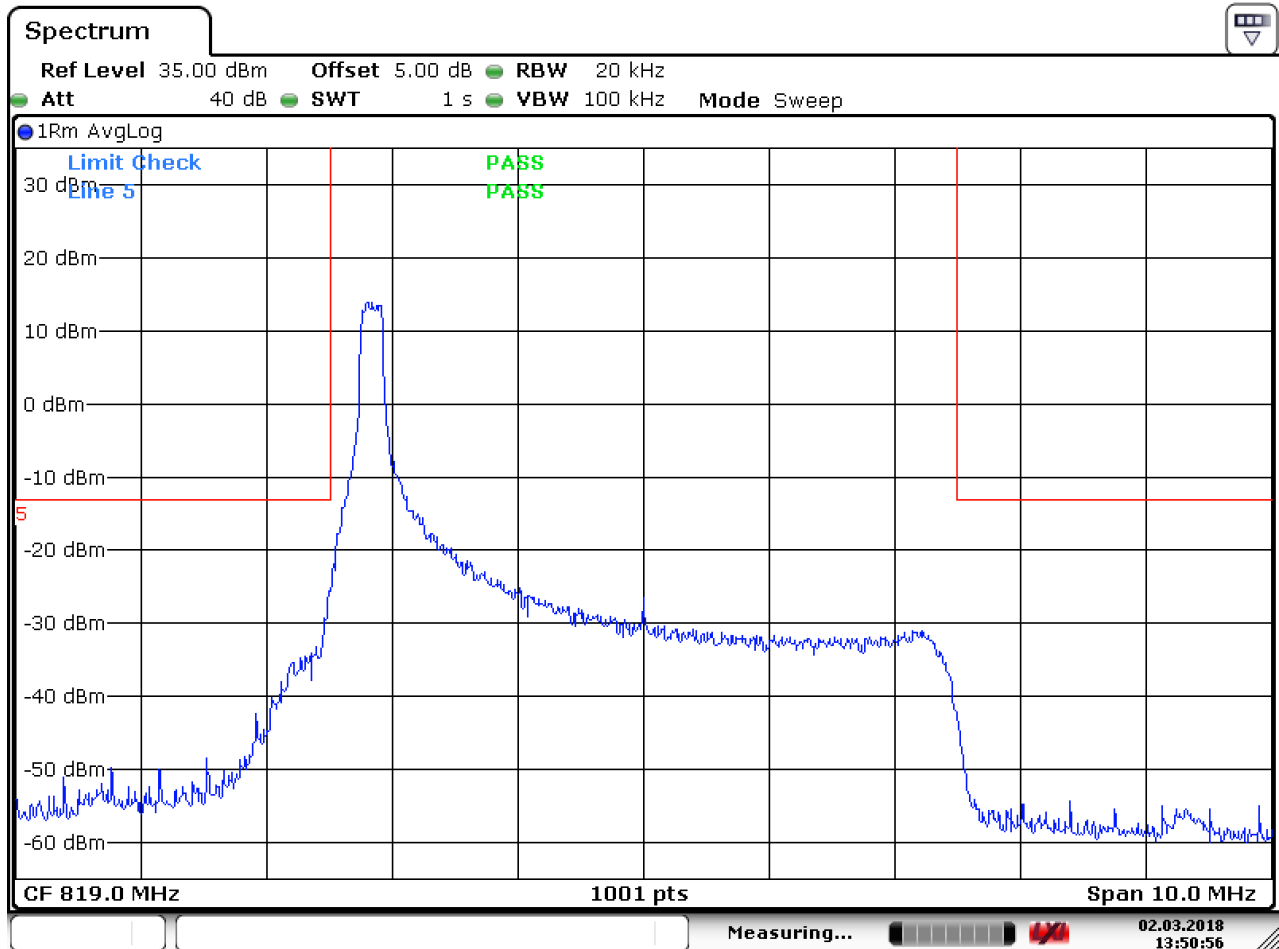


Date: 2.MAR.2018 14:01:55



6.1.1.7.2 Test Channel = MCH

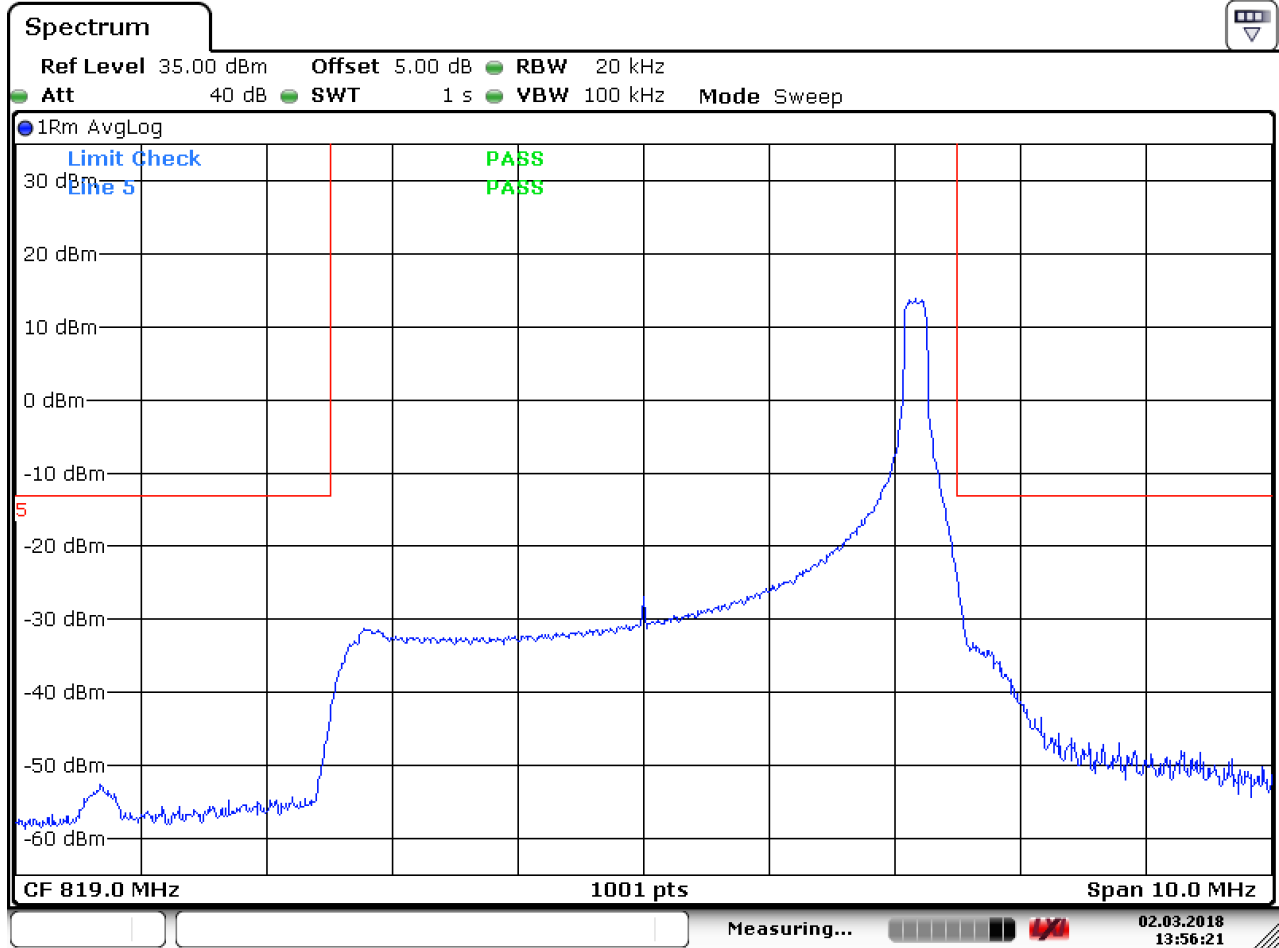
6.1.1.7.2.1 Test RB=1RB#0



Date: 2.MAR.2018 13:50:57



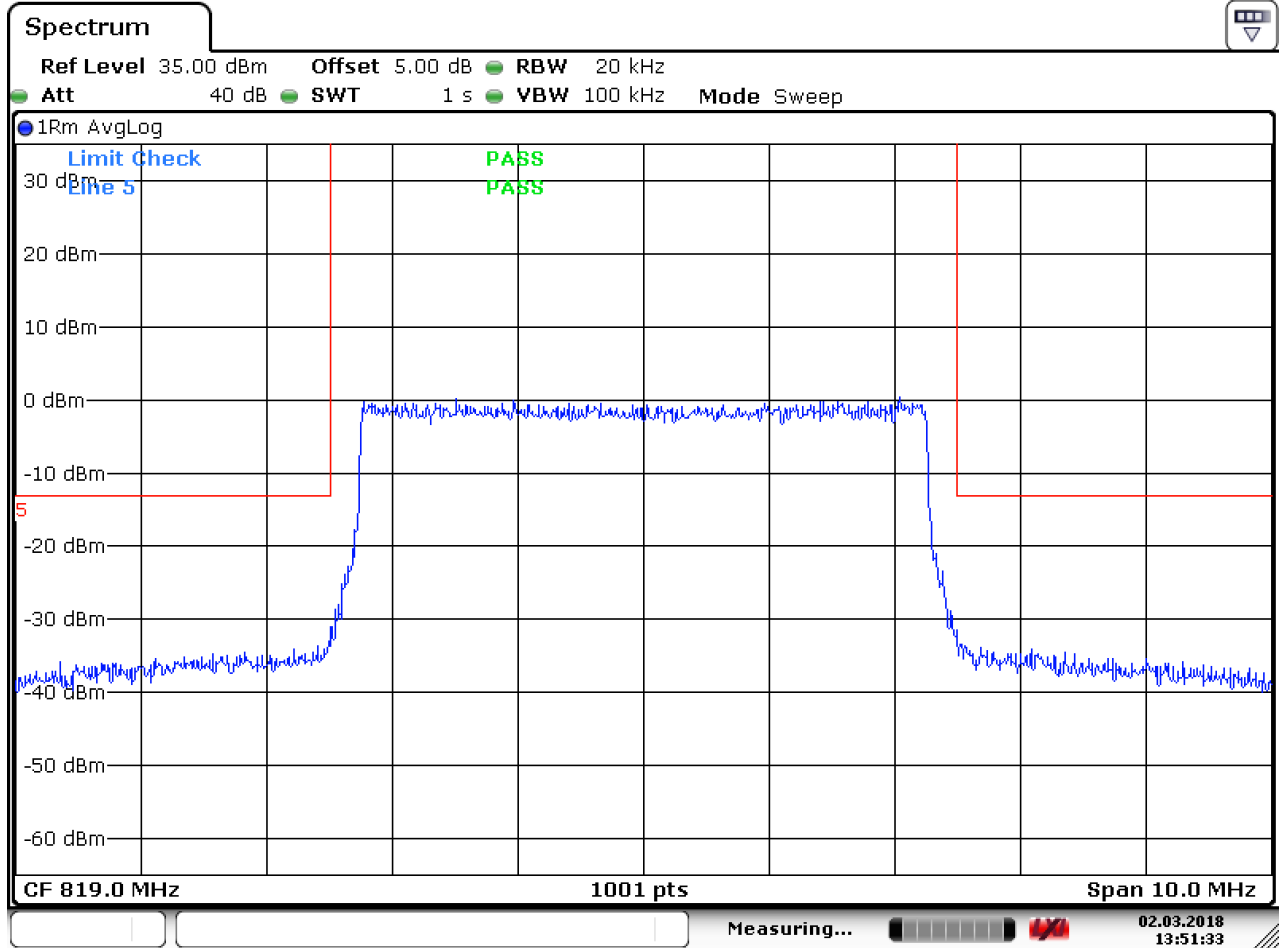
6.1.1.7.2.2 Test RB=1RB#24



Date: 2.MAR.2018 13:56:21



6.1.1.7.2.3 Test RB=25RB

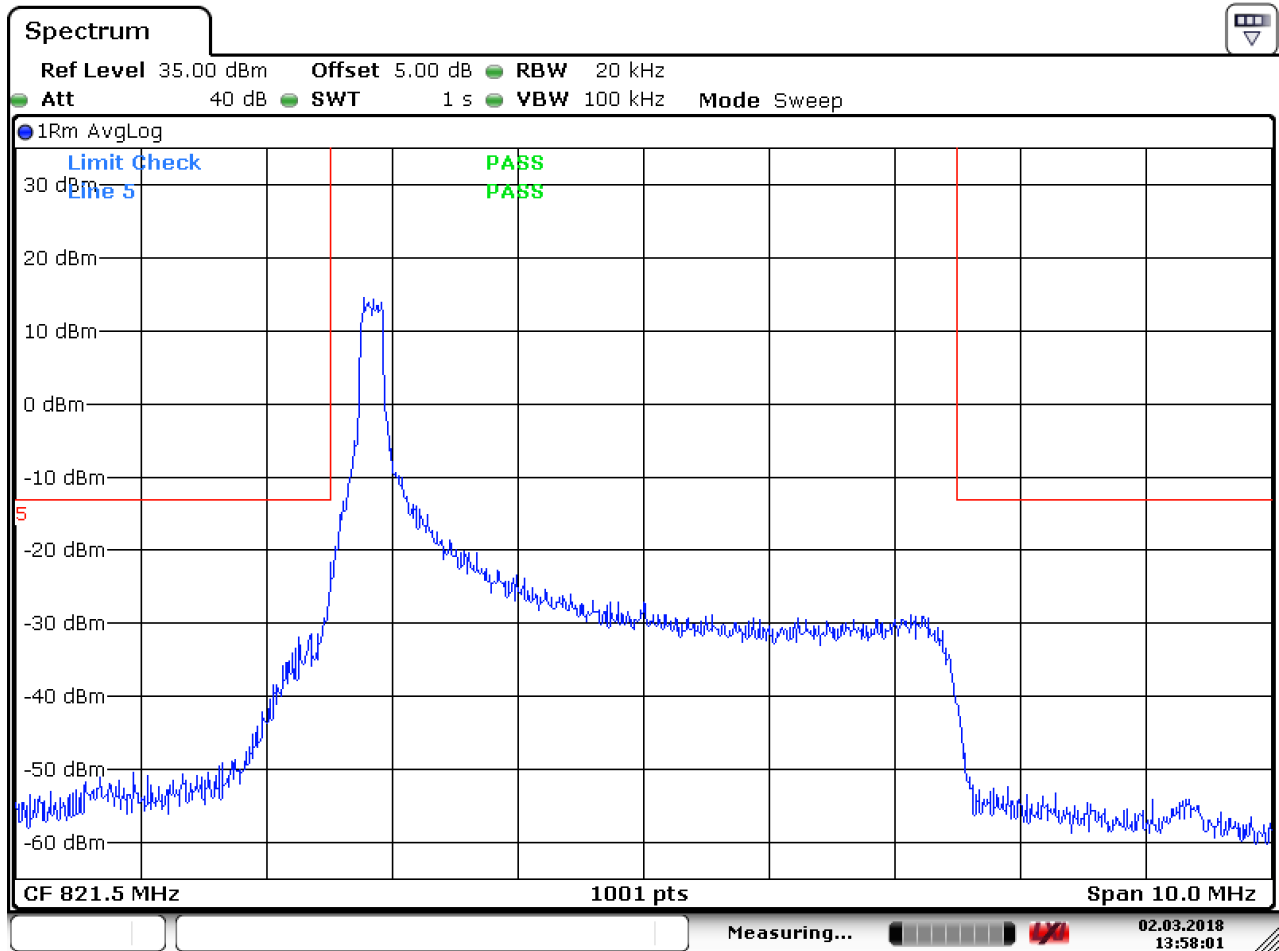


Date: 2.MAR.2018 13:51:34



6.1.1.7.3 Test Channel = HCH

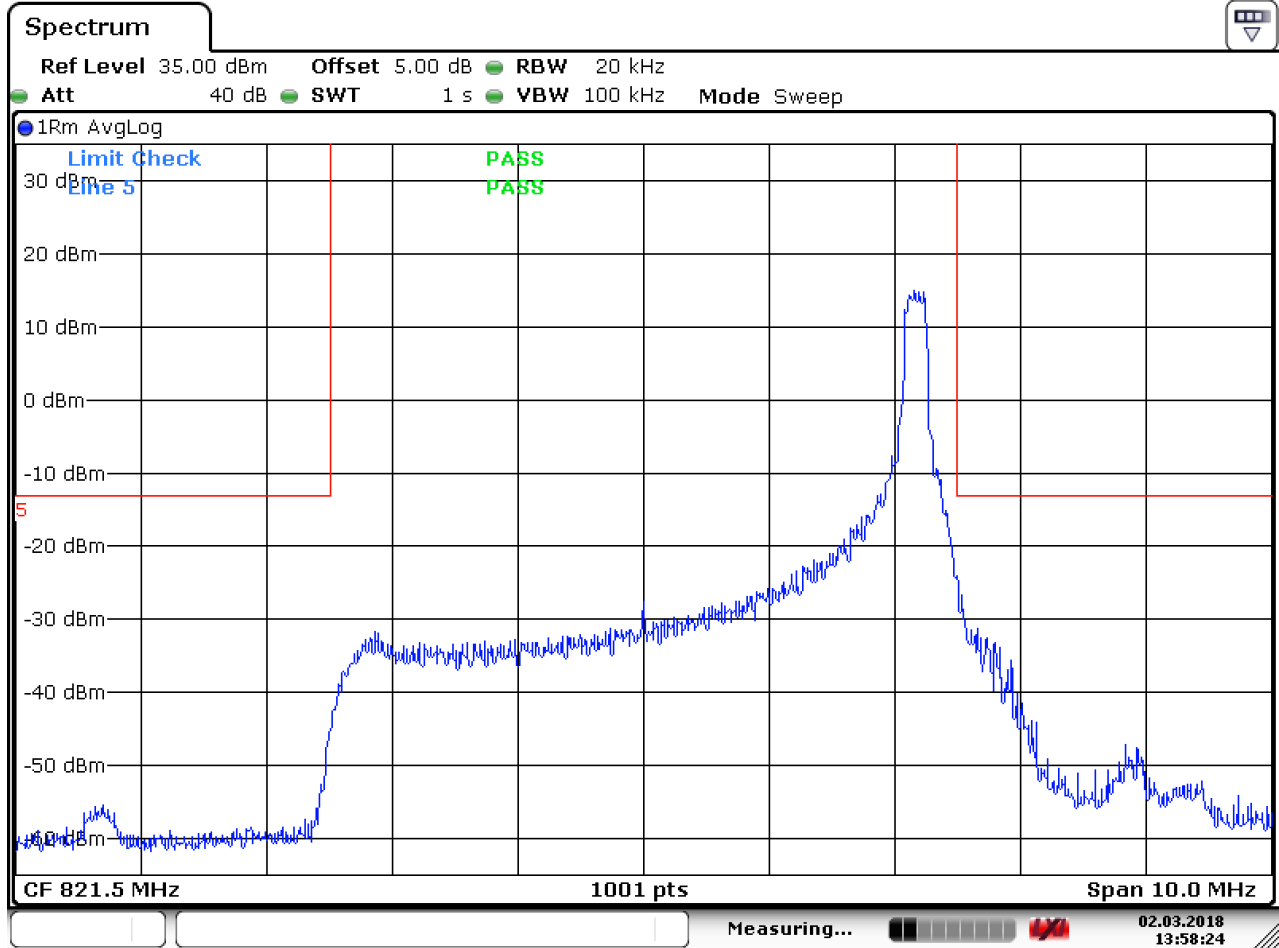
6.1.1.7.3.1 Test RB=1RB#0



Date: 2.MAR.2018 13:58:02



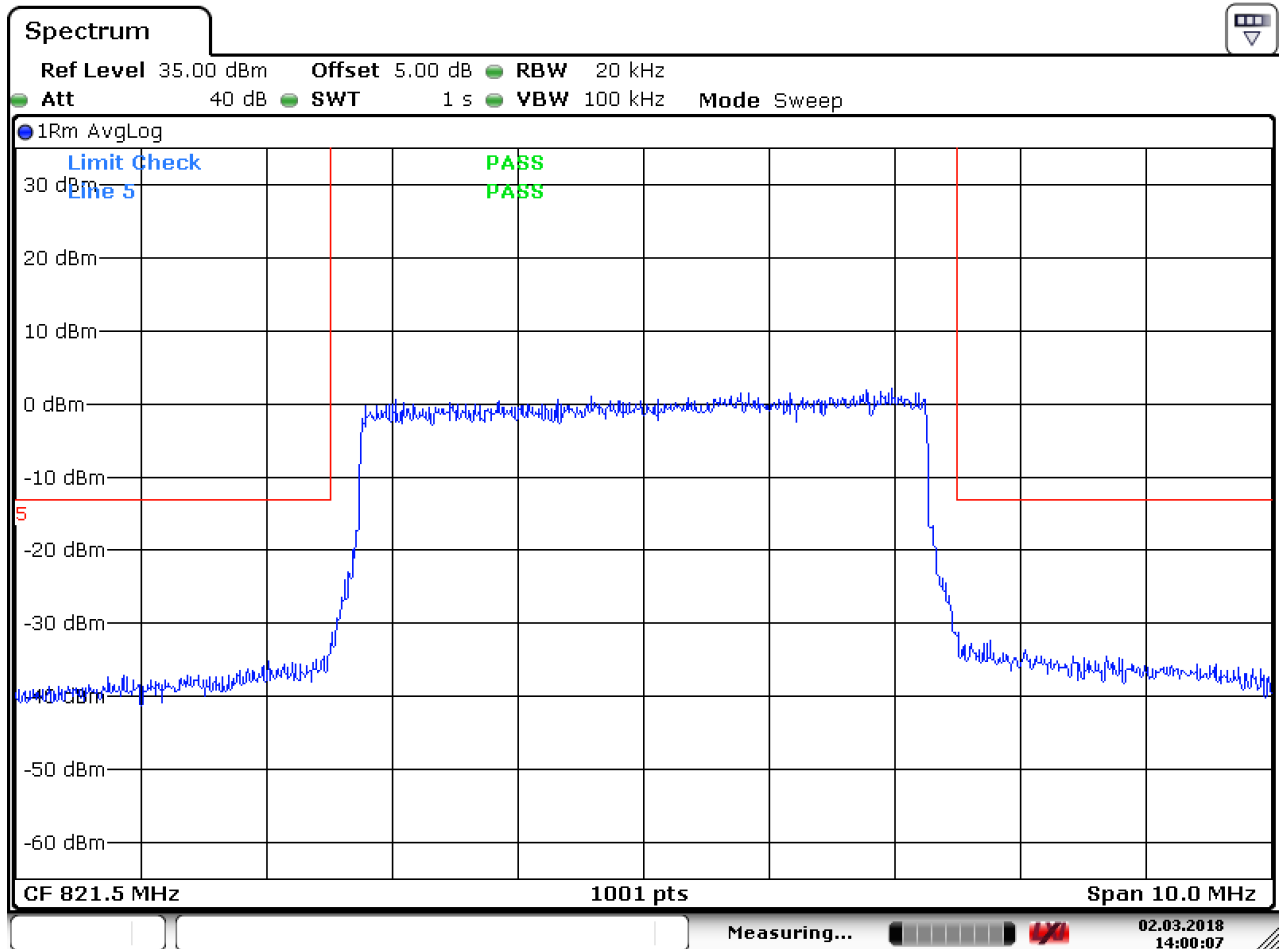
6.1.1.7.3.2 Test RB=1RB#24



Date: 2.MAR.2018 13:58:24



6.1.1.7.3.3 Test RB=25RB

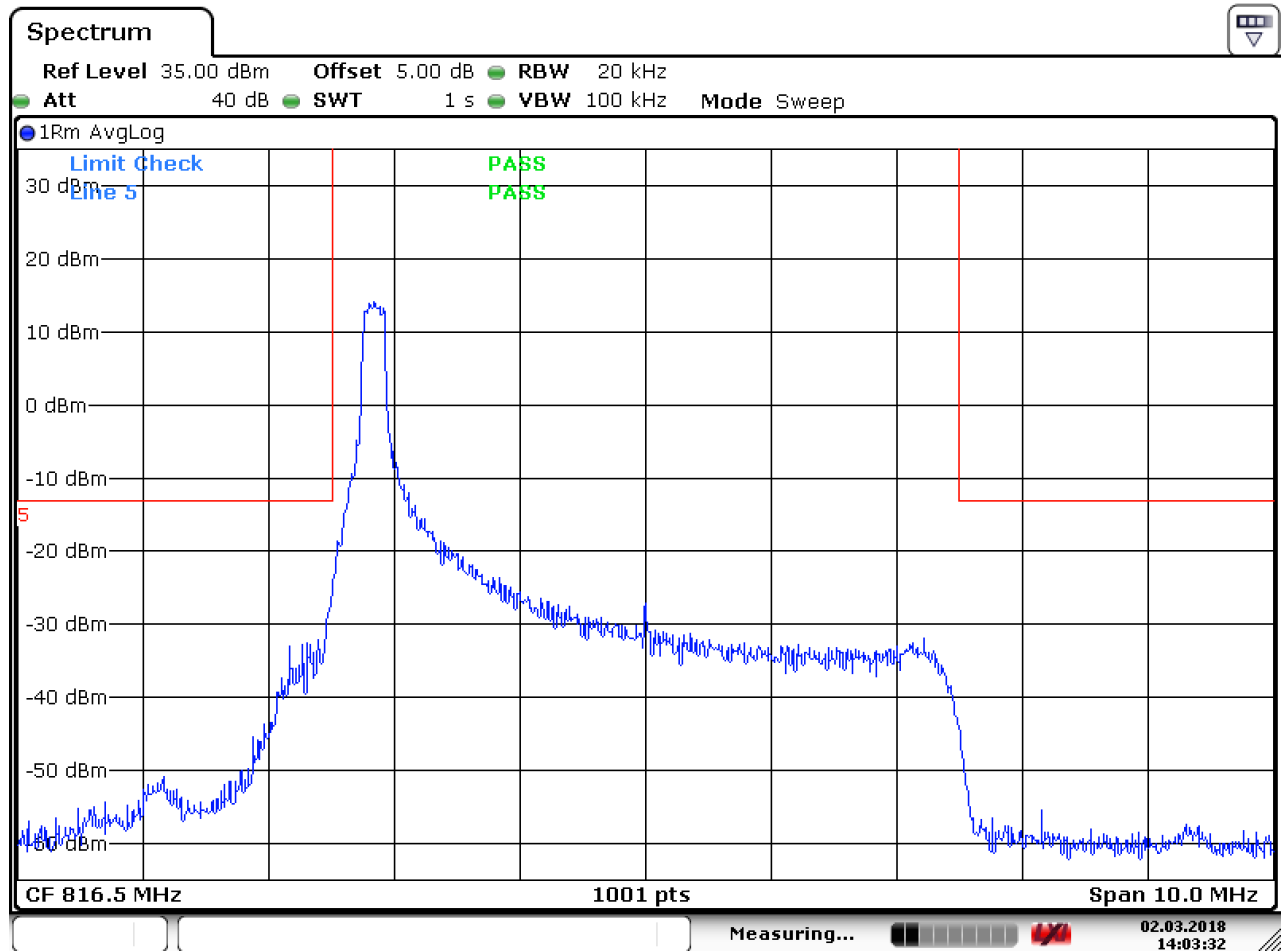


Date: 2.MAR.2018 14:00:08

6.1.1.8 Test Mode = LTE/TM2 5MHz

6.1.1.8.1 Test Channel = LCH

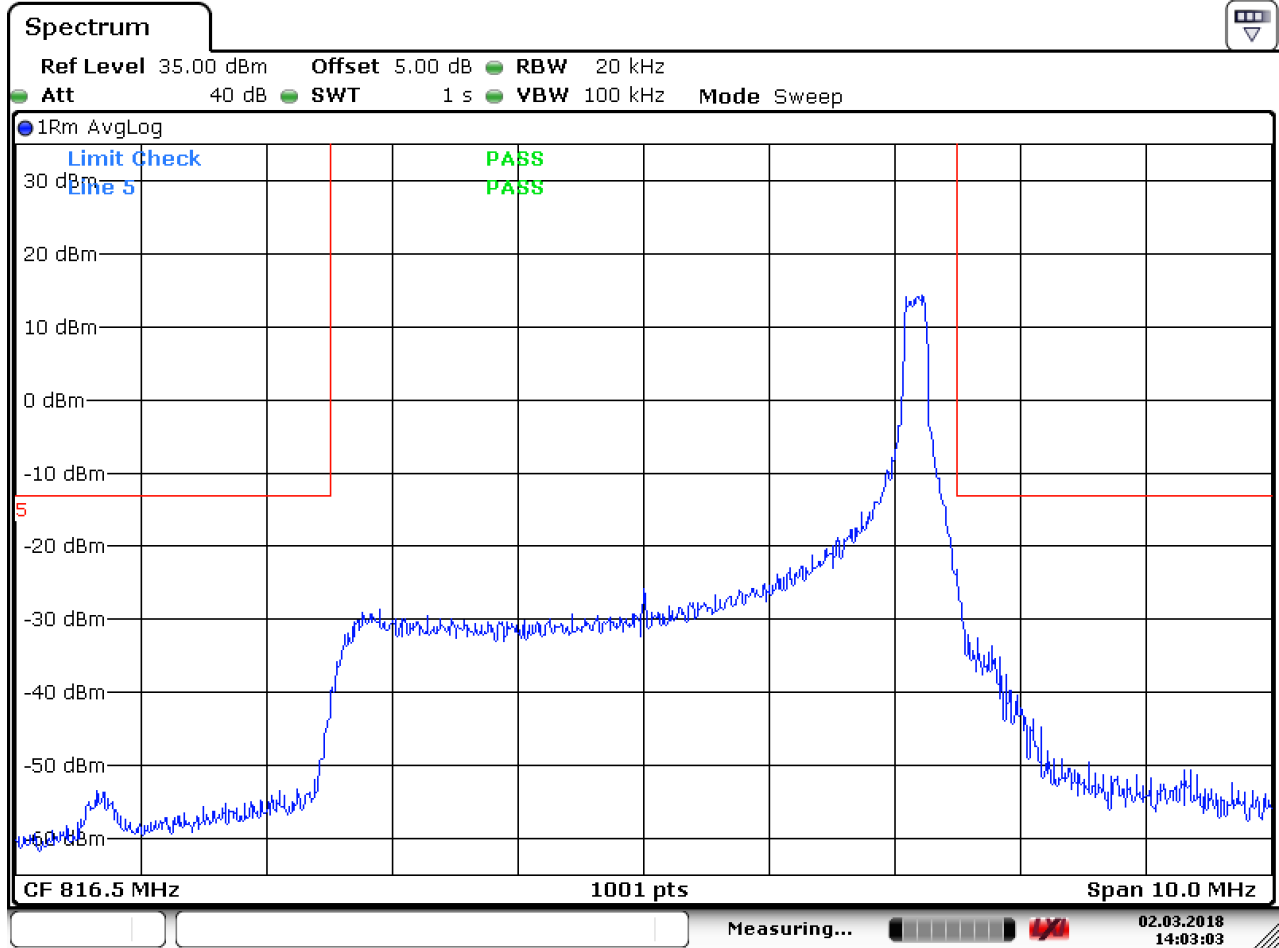
6.1.1.8.1.1 Test RB=1RB#0



Date: 2.MAR.2018 14:03:32



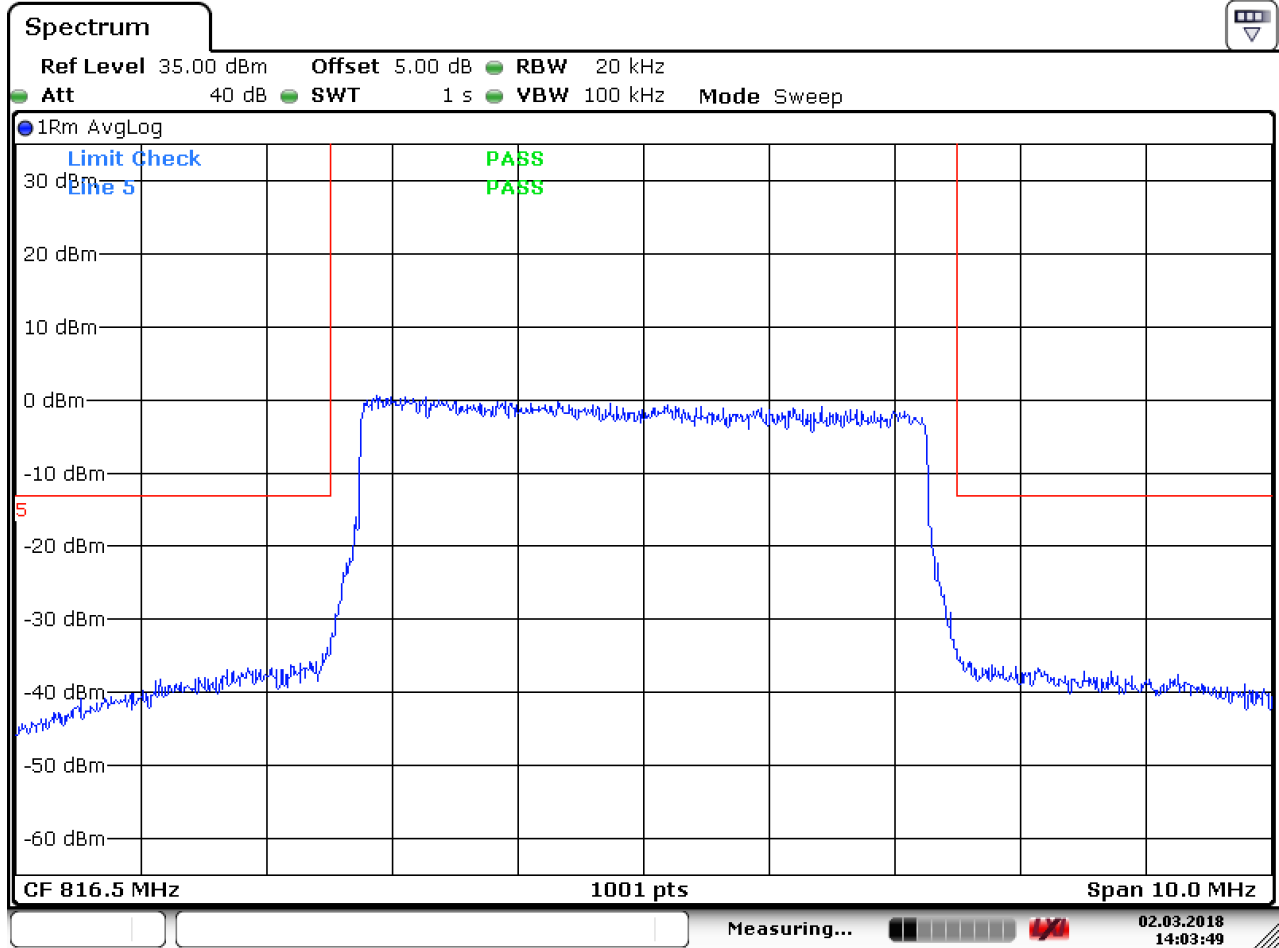
6.1.1.8.1.2 Test RB=1RB#24



Date: 2.MAR.2018 14:03:02



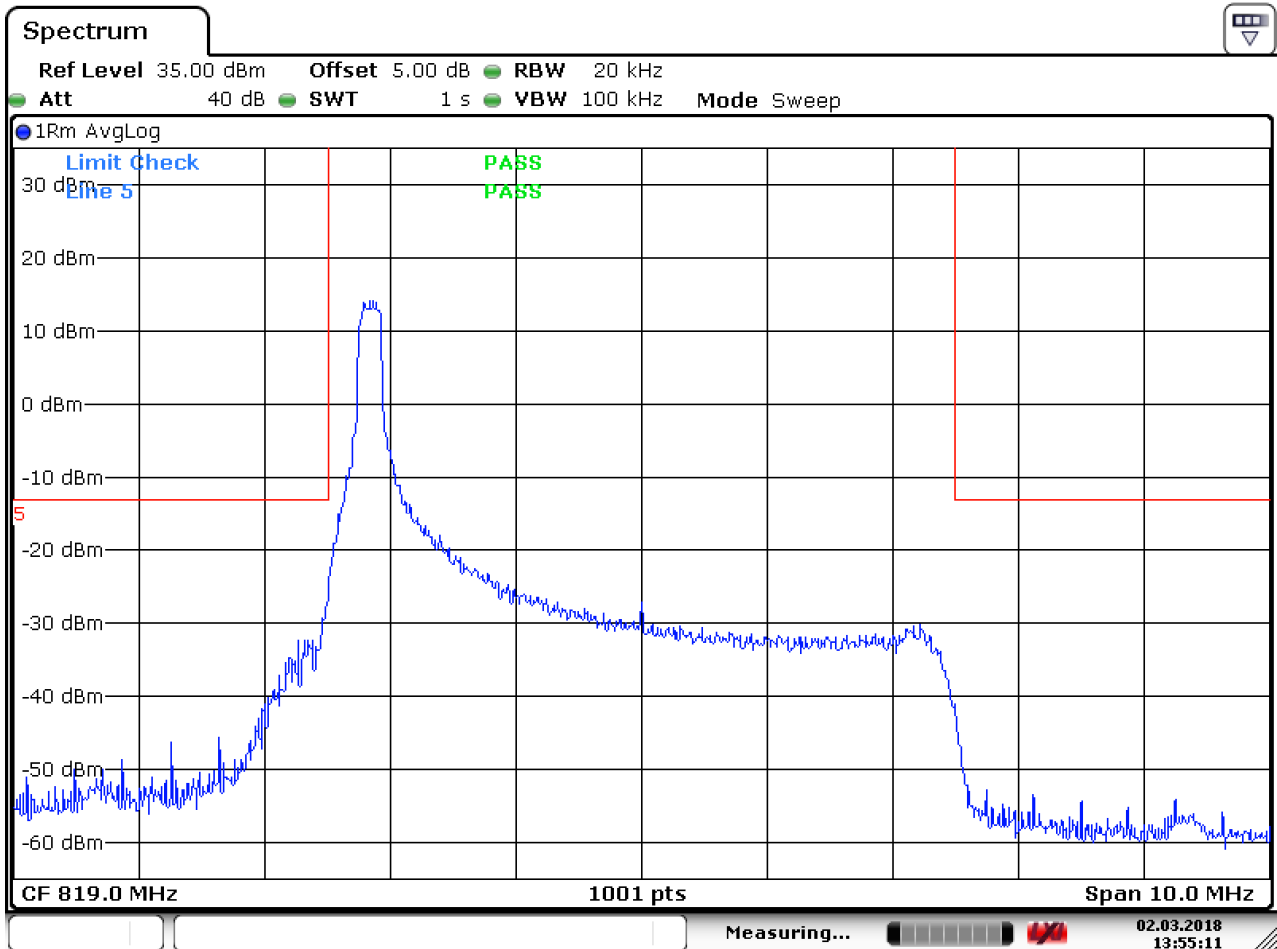
6.1.1.8.1.3 Test RB=25RB



Date: 2.MAR.2018 14:03:49

6.1.1.8.2 Test Channel = MCH

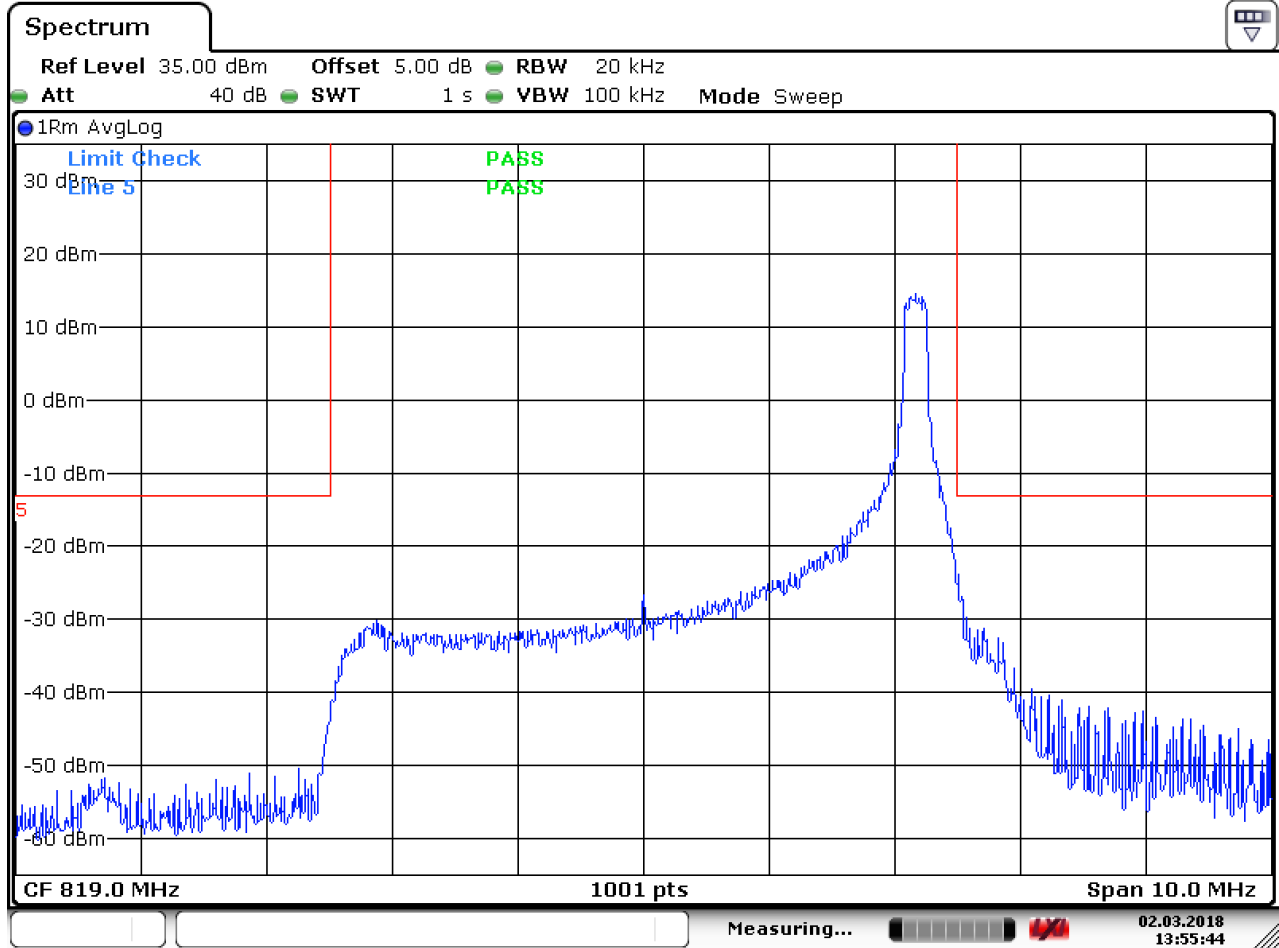
6.1.1.8.2.1 Test RB=1RB#0



Date: 2.MAR.2018 13:55:12



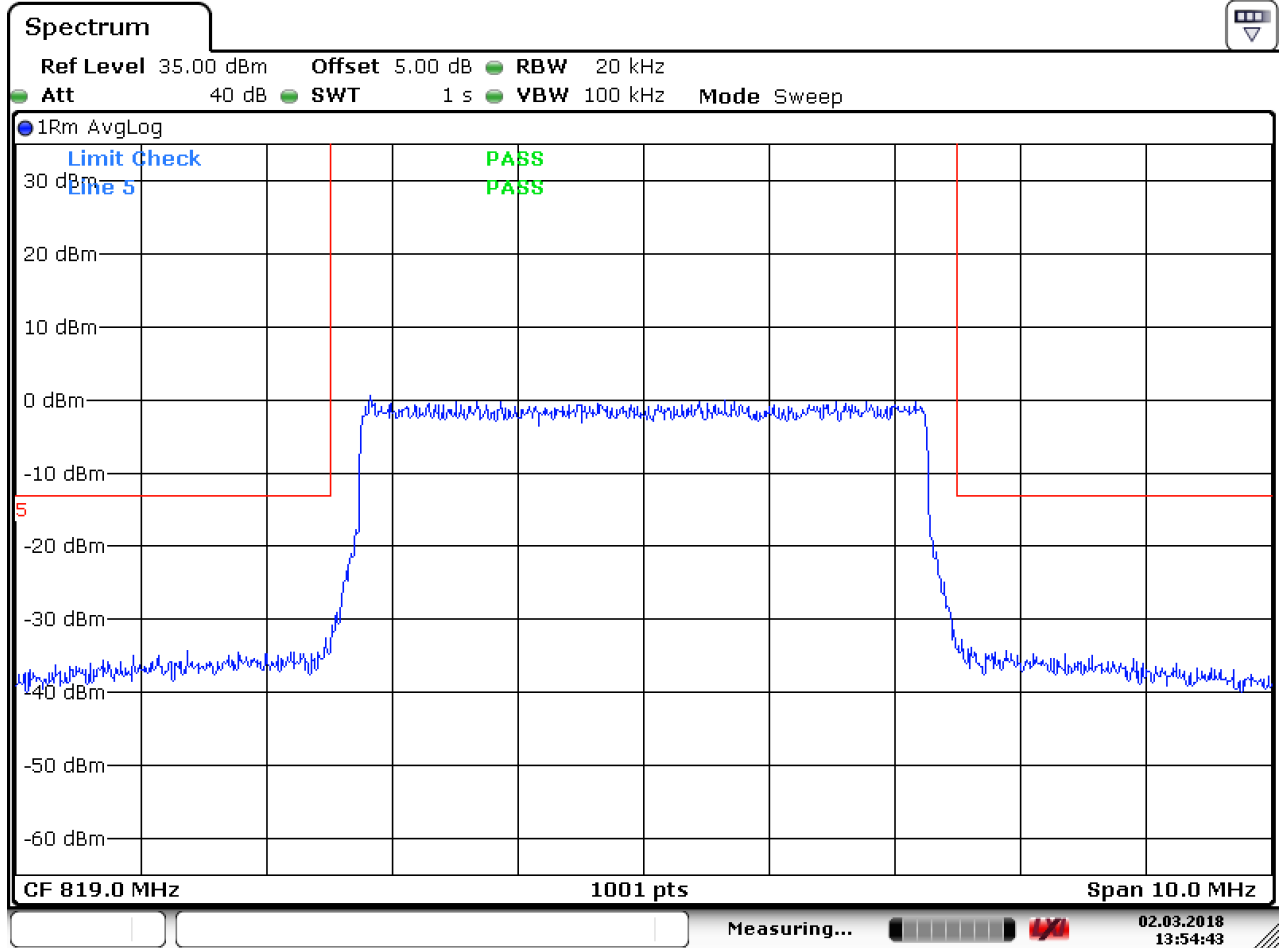
6.1.1.8.2.2 Test RB=1RB#24



Date: 2.MAR.2018 13:55:45



6.1.1.8.2.3 Test RB=25RB

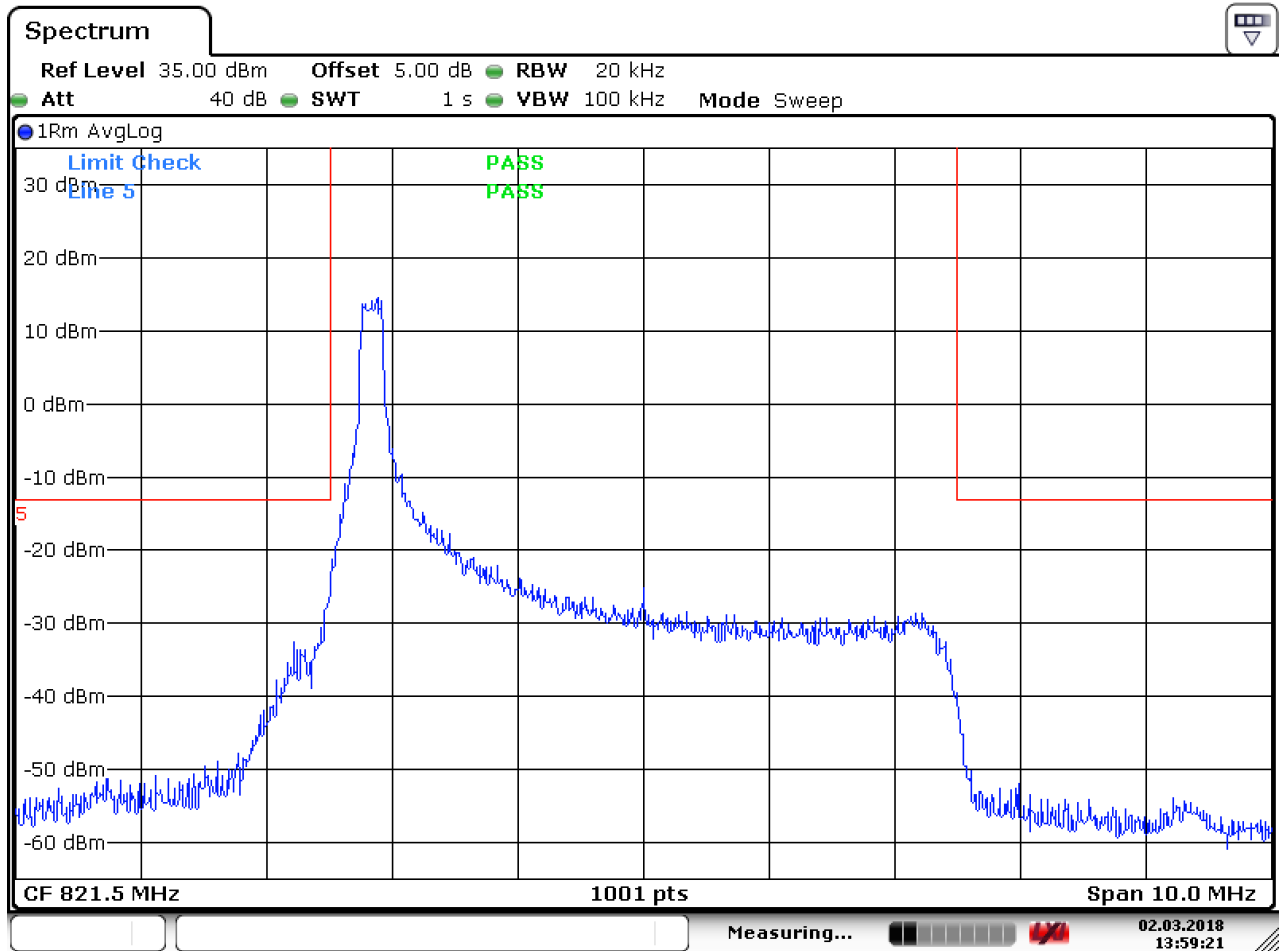


Date: 2.MAR.2018 13:54:43



6.1.1.8.3 Test Channel = HCH

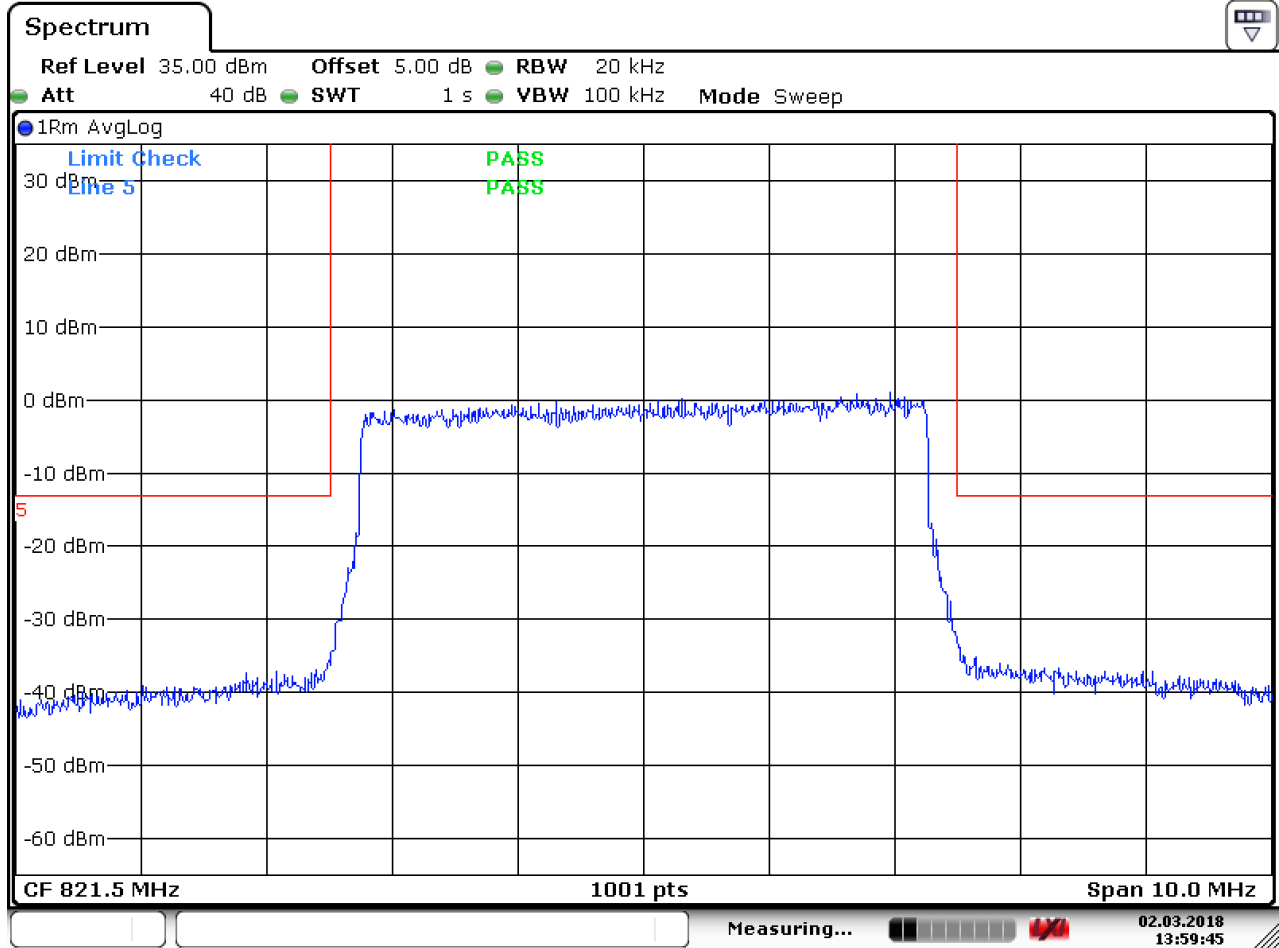
6.1.1.8.3.1 Test RB=1RB#0



Date: 2.MAR.2018 13:59:21



6.1.1.8.3.3 Test RB=25RB

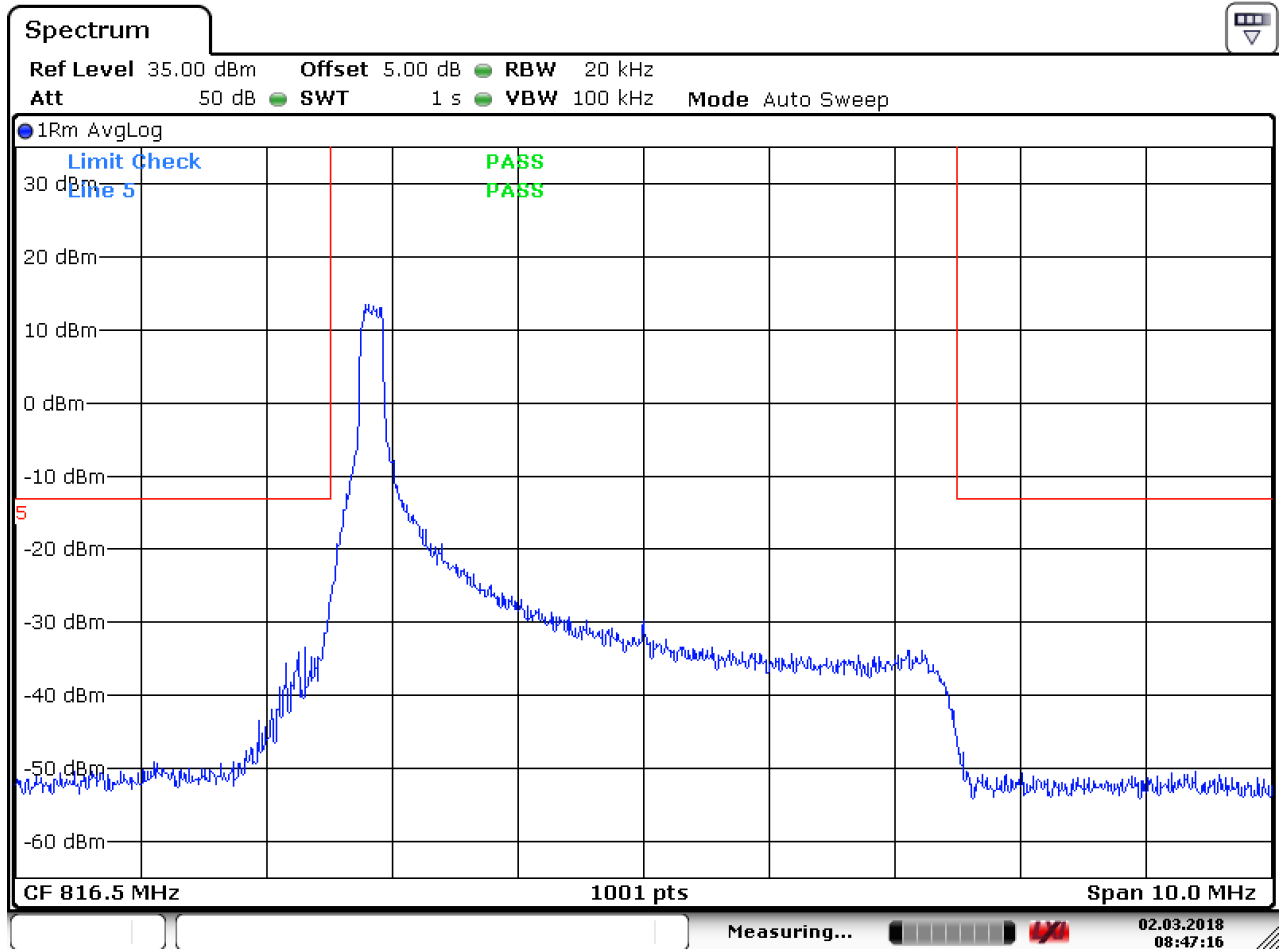


Date: 2.MAR.2018 13:59:45

6.1.1.9 Test Mode = LTE/TM3 5MHz

6.1.1.9.1 Test Channel = LCH

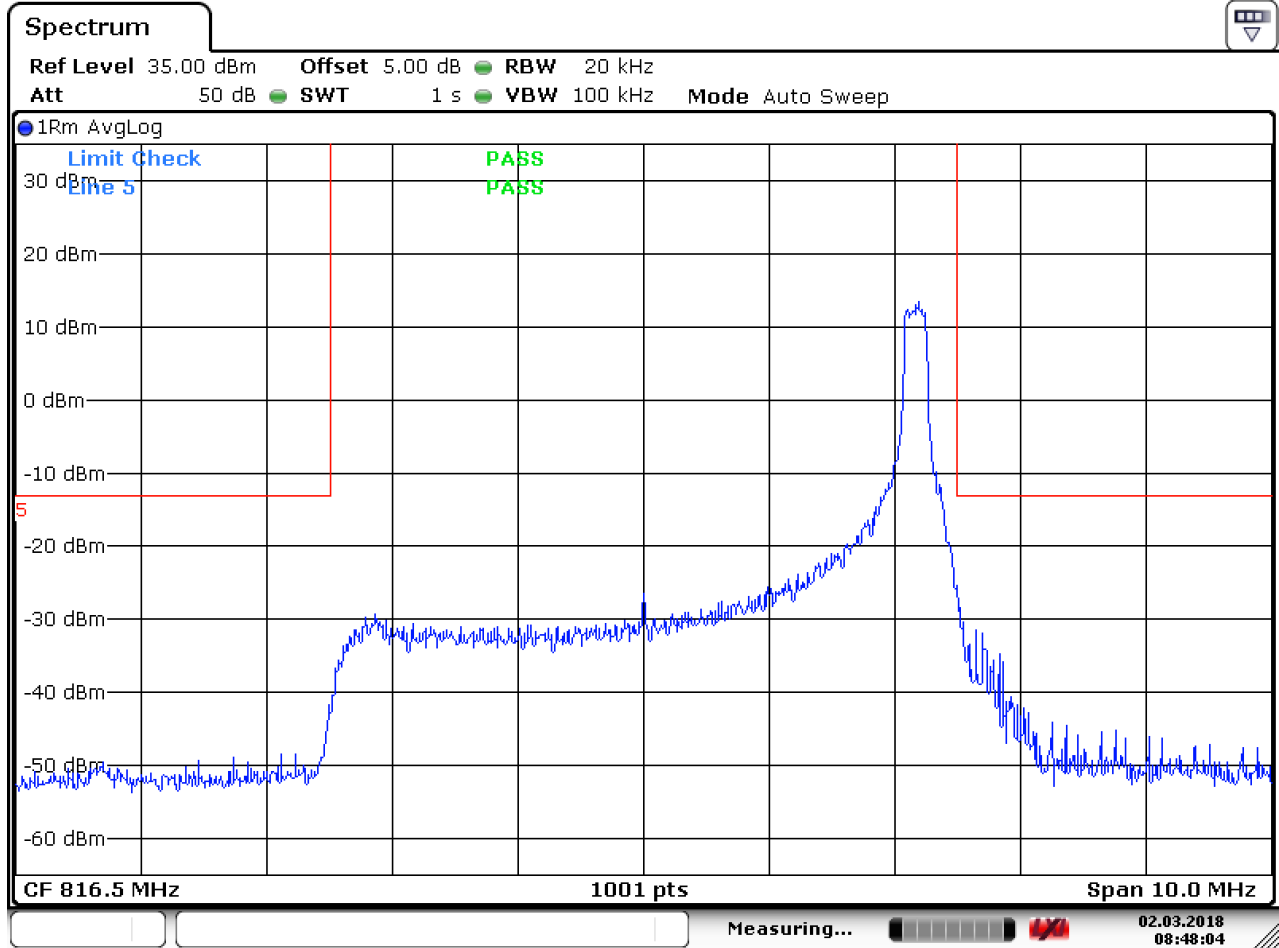
6.1.1.9.1.1 Test RB=1RB#0



Date: 2.MAR.2018 08:47:16



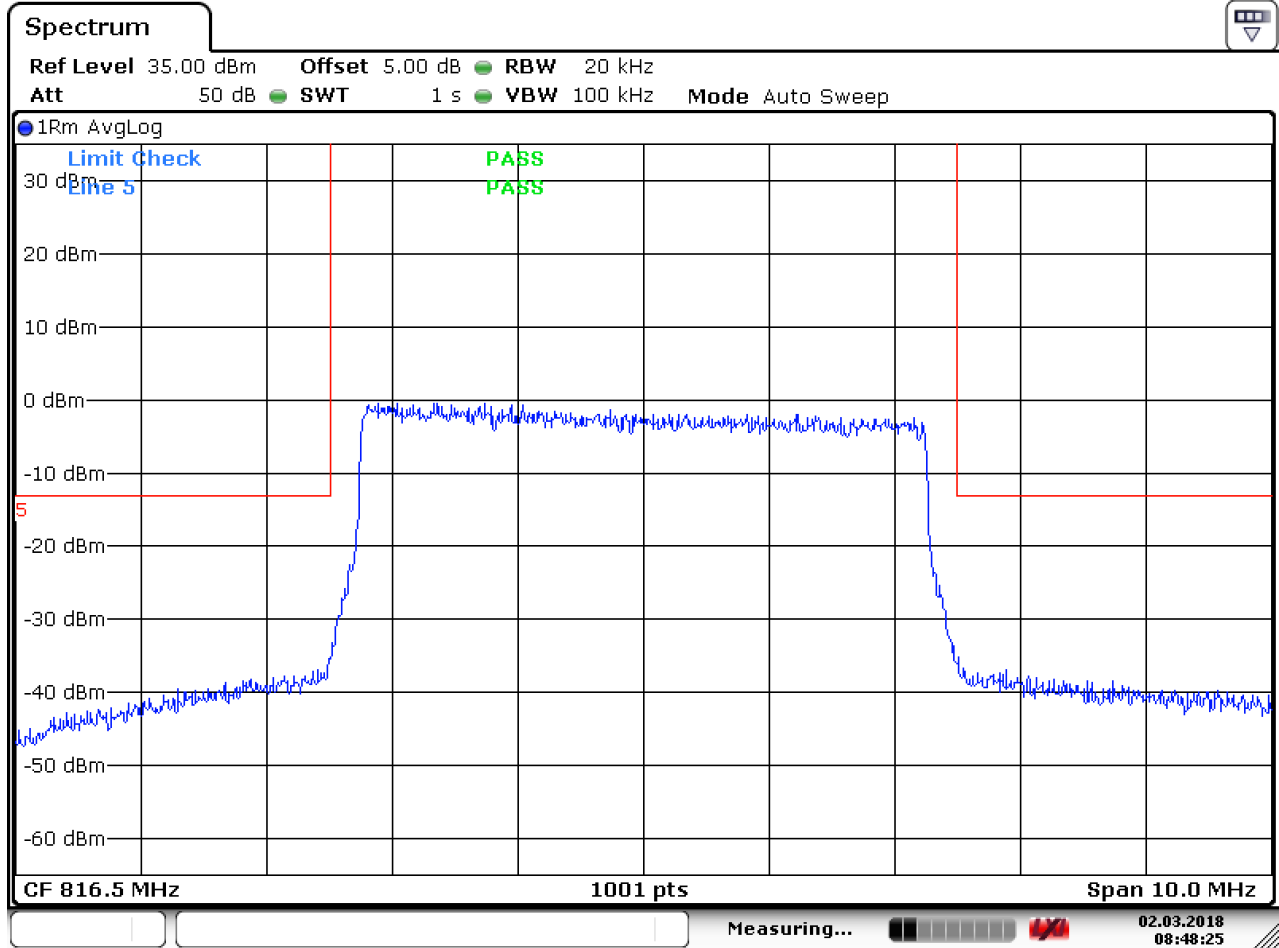
6.1.1.9.1.2 Test RB=1RB#24



Date: 2.MAR.2018 08:48:05



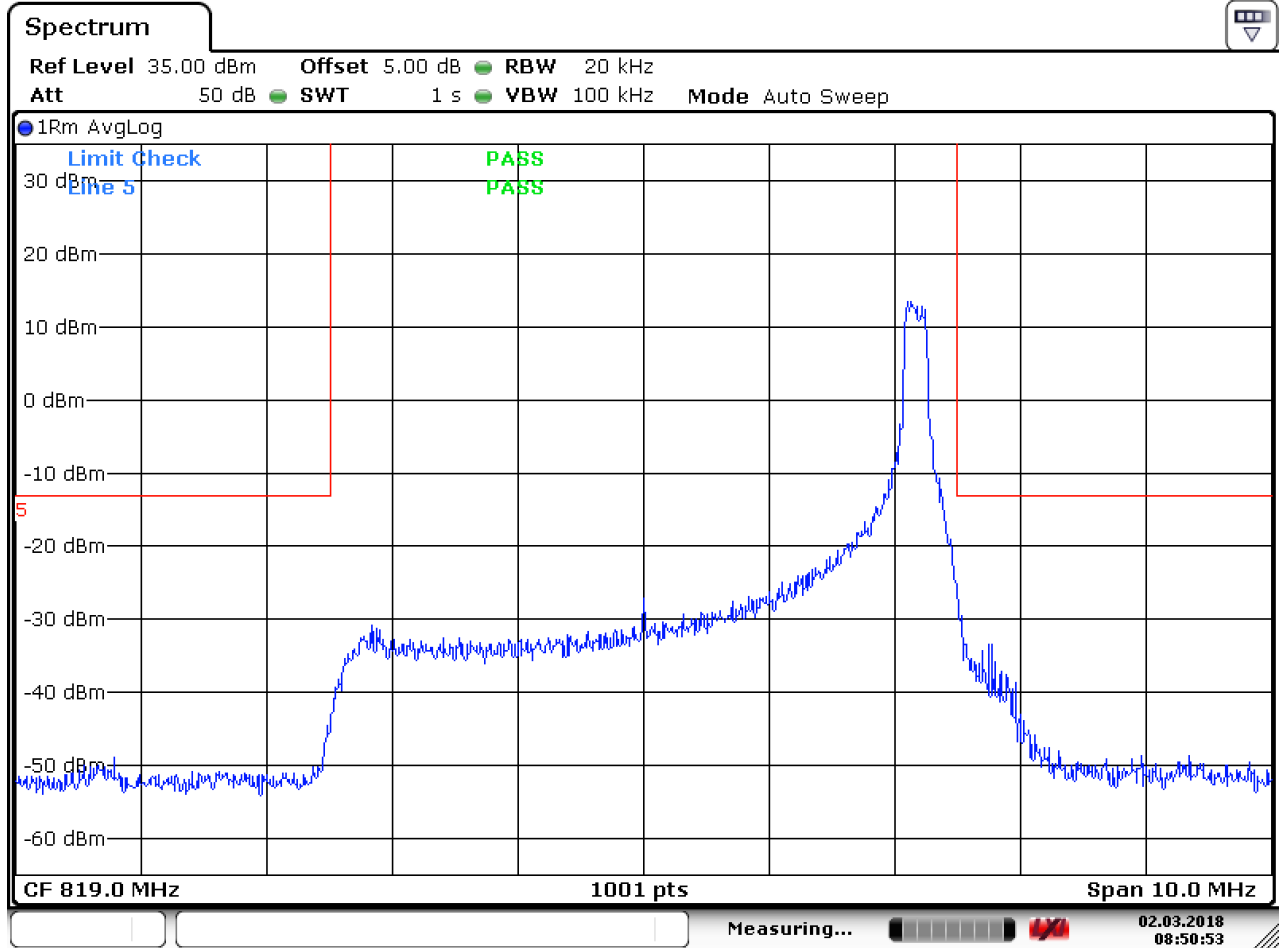
6.1.1.9.1.3 Test RB=25RB



Date: 2.MAR.2018 08:48:25



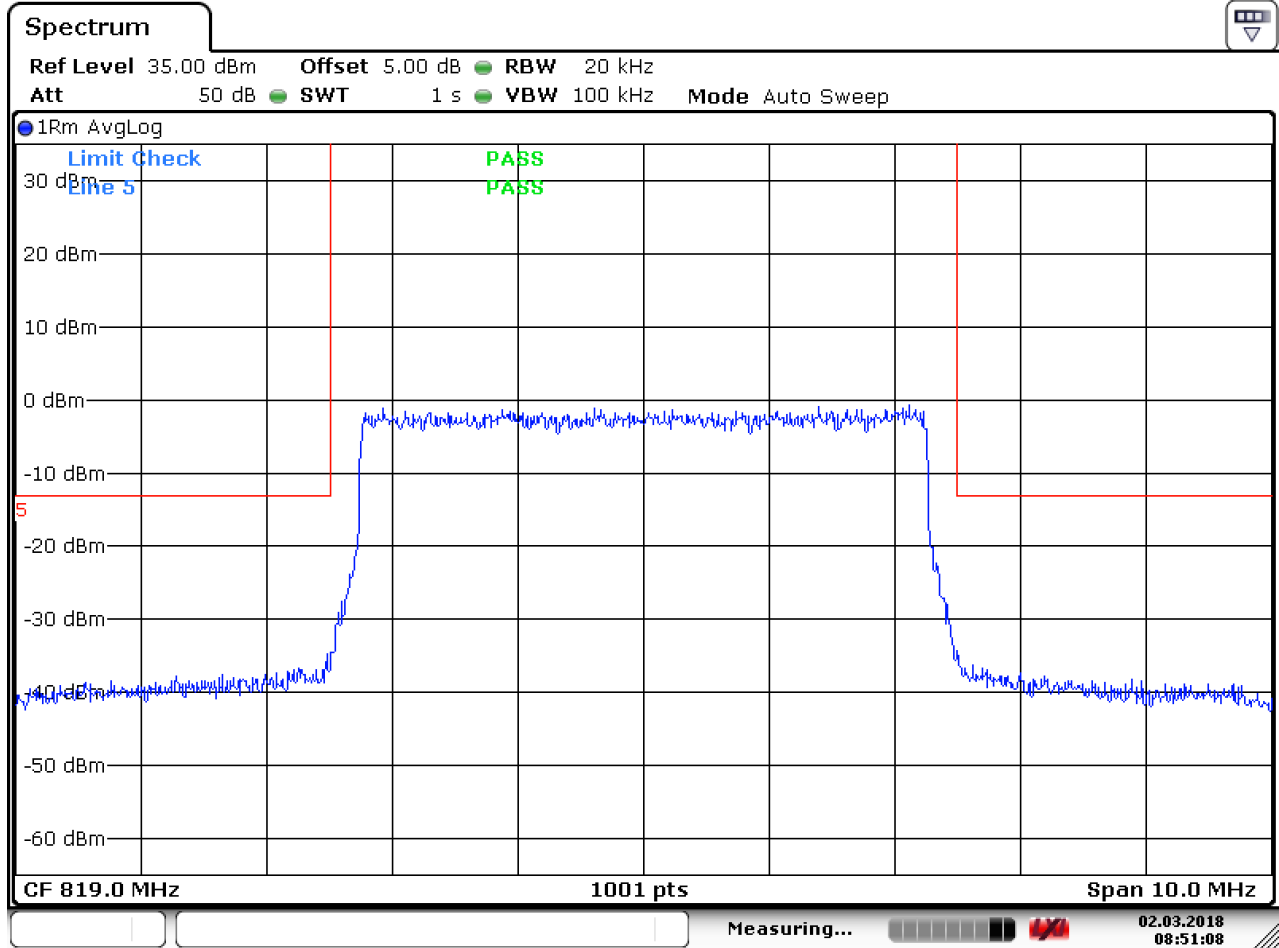
6.1.1.9.2.2 Test RB=1RB#24



Date: 2.MAR.2018 08:50:53



6.1.1.9.2.3 Test RB=25RB

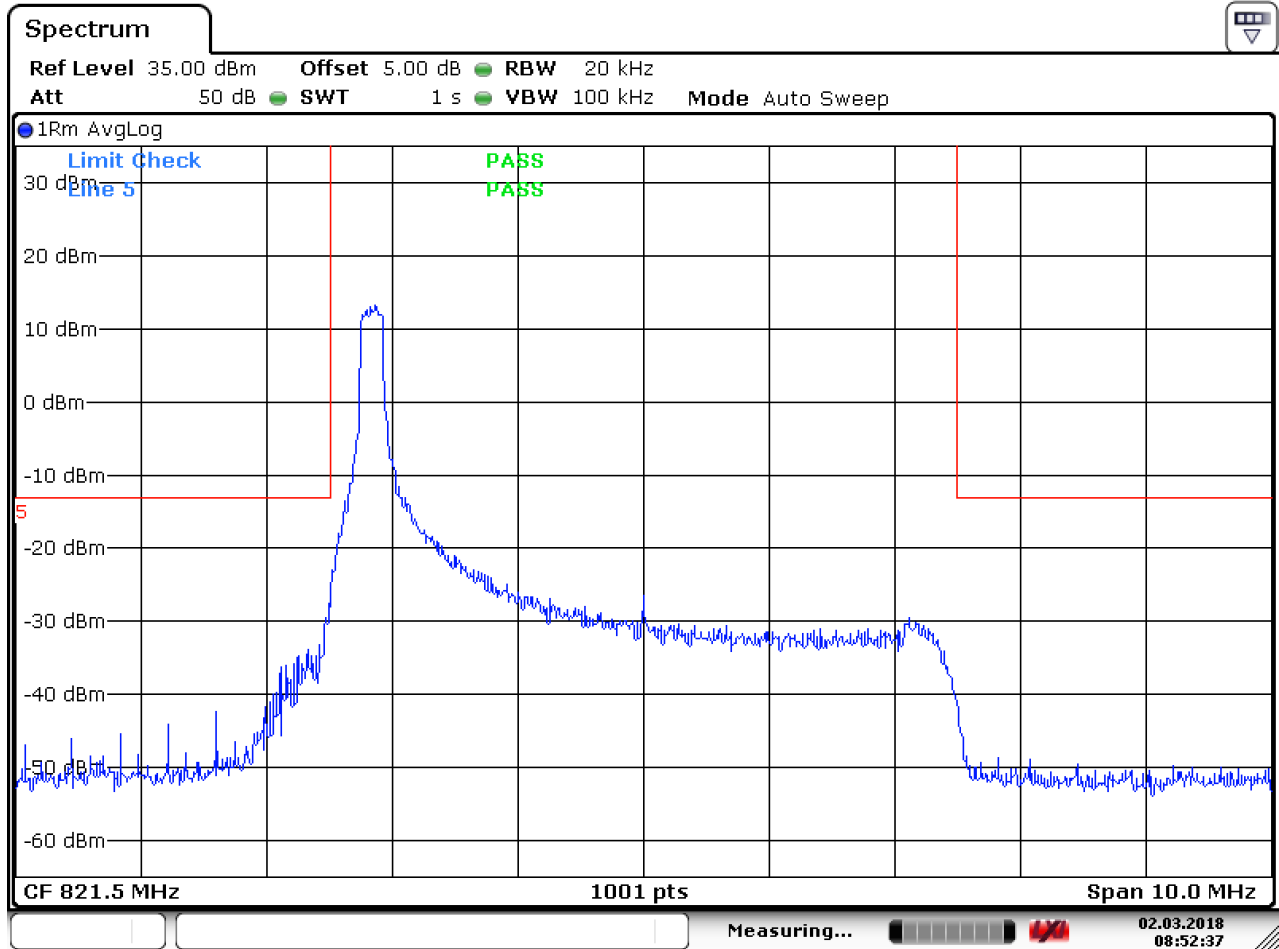


Date: 2.MAR.2018 08:51:08



6.1.1.9.3 Test Channel = HCH

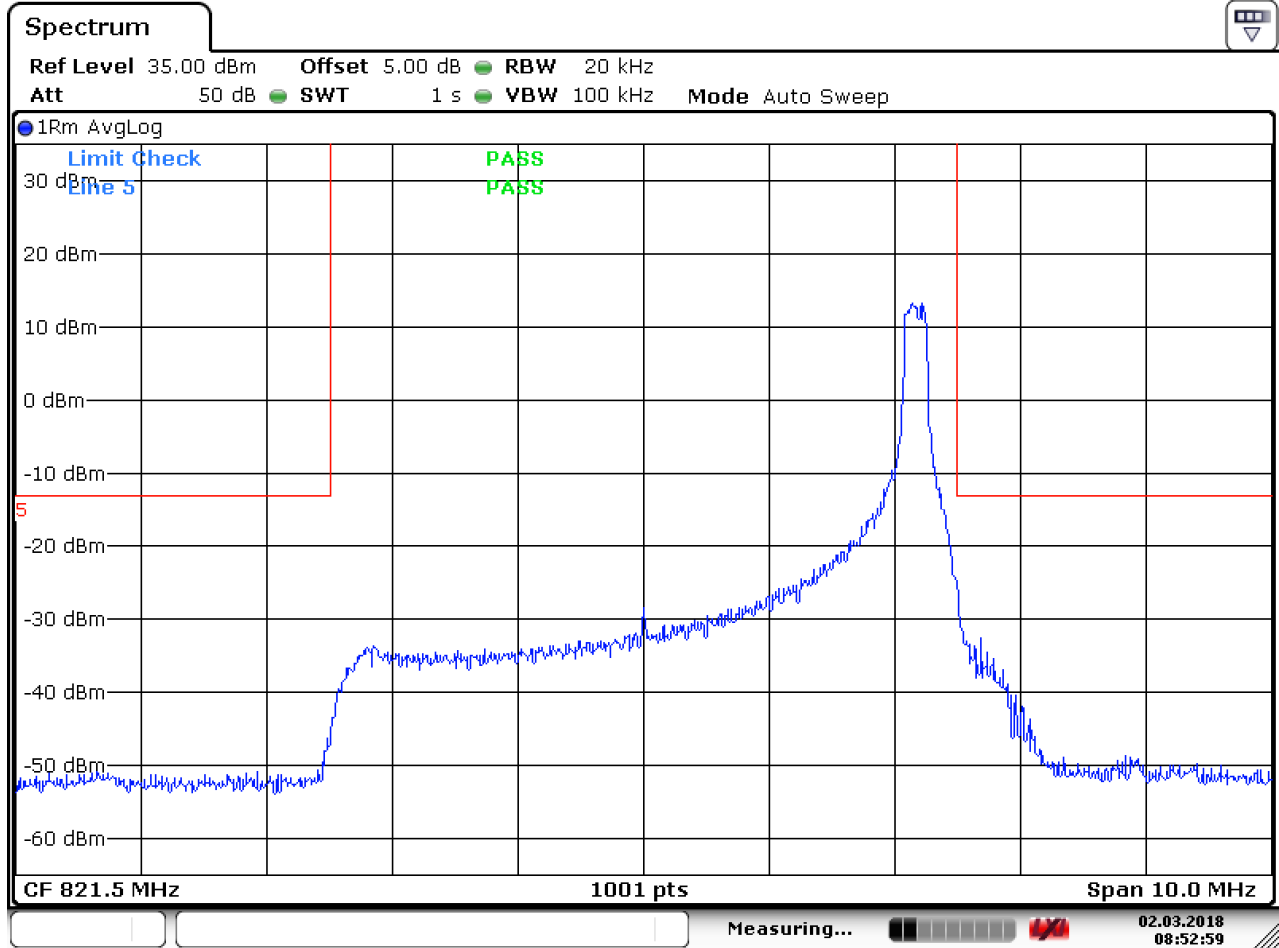
6.1.1.9.3.1 Test RB=1RB#0



Date: 2.MAR.2018 08:52:38



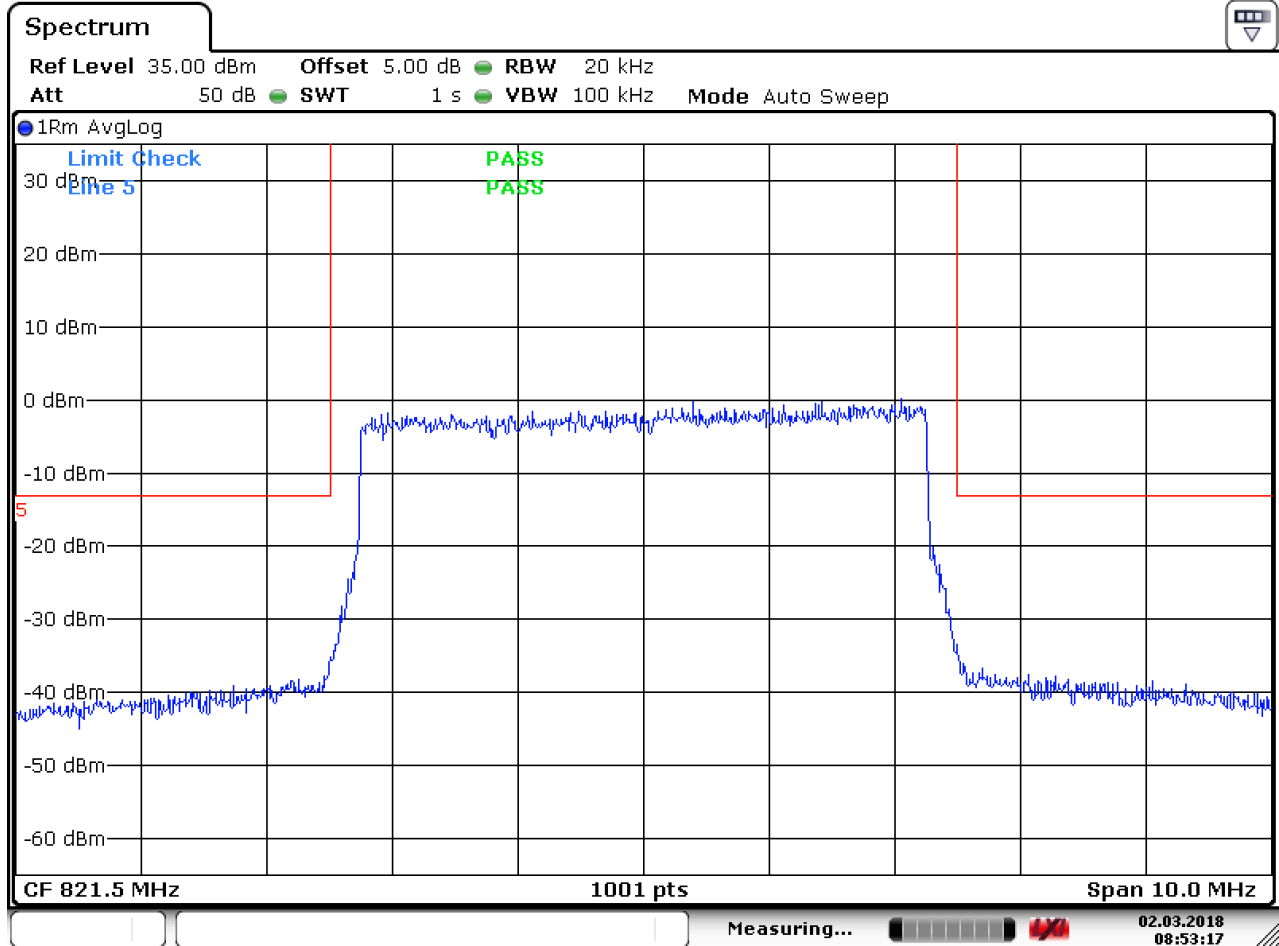
6.1.1.9.3.2 Test RB=1RB#24



Date: 2.MAR.2018 08:52:59



6.1.1.9.3.3 Test RB=25RB



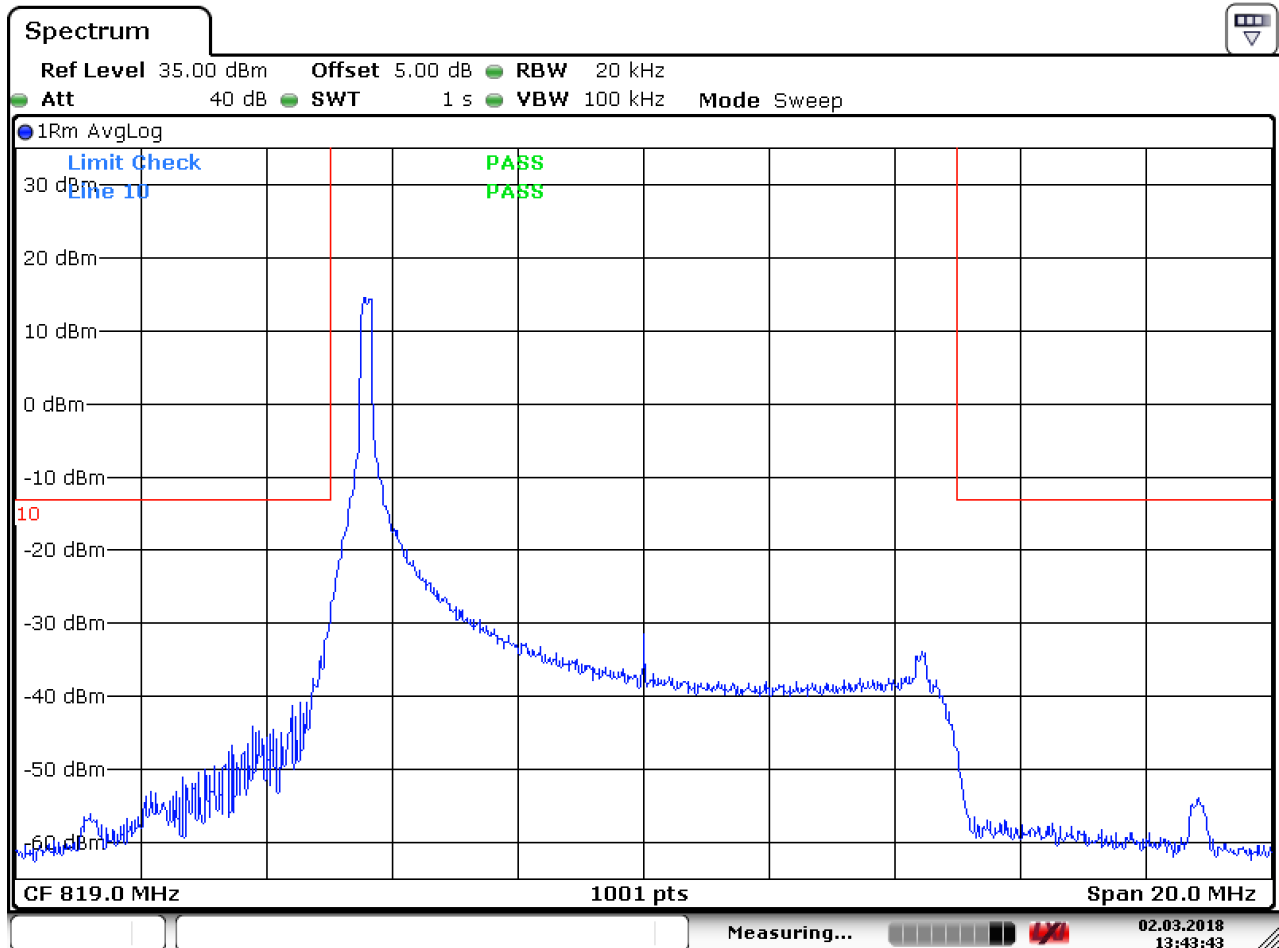
Date: 2.MAR.2018 08:53:17



6.1.1.10 Test Mode = LTE/TM1 10MHz

6.1.1.10.1 Test Channel = LCH/ MCH/HCH

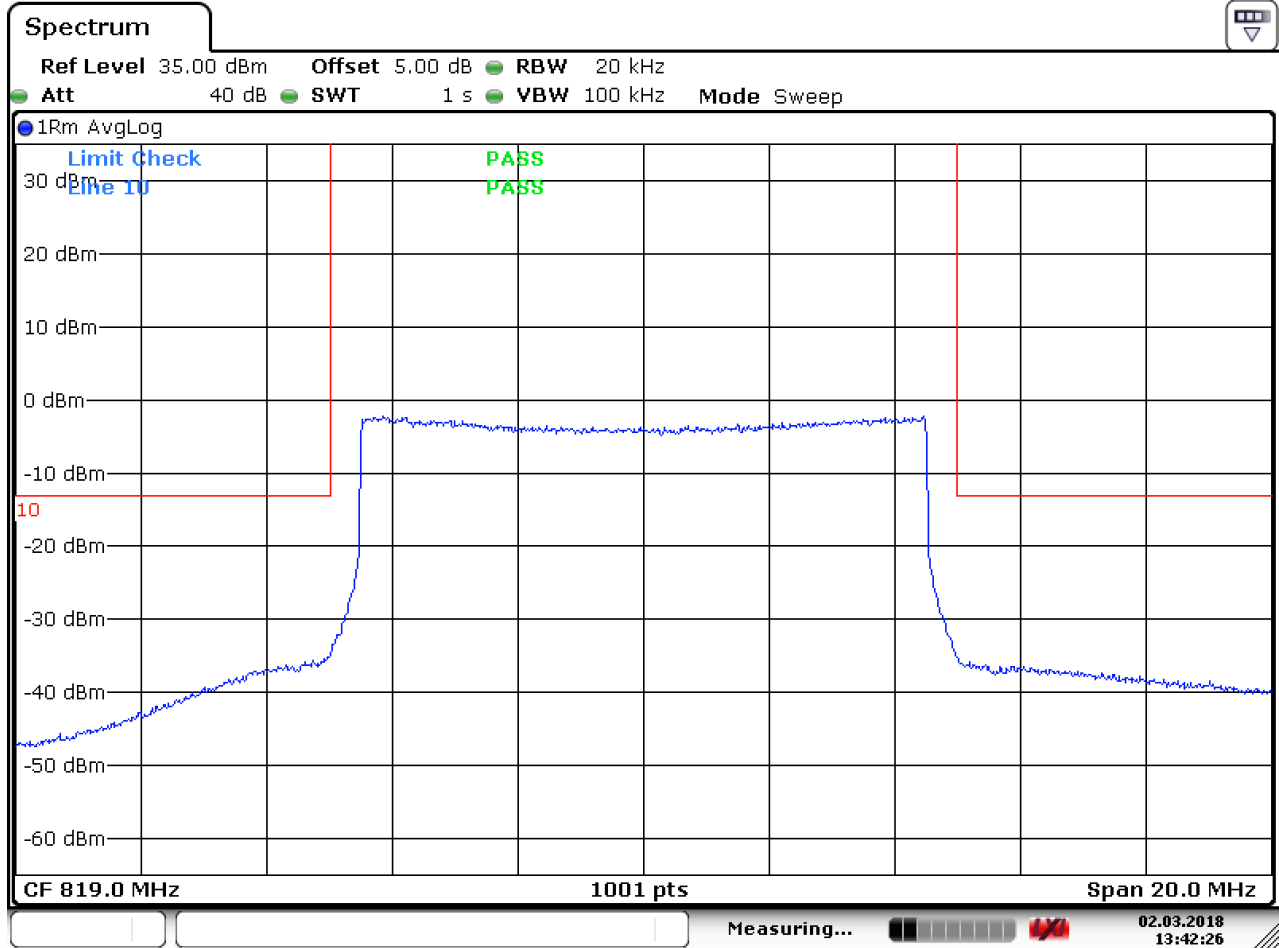
6.1.1.10.1.1 Test RB=1RB#0



Date: 2.MAR.2018 13:43:44



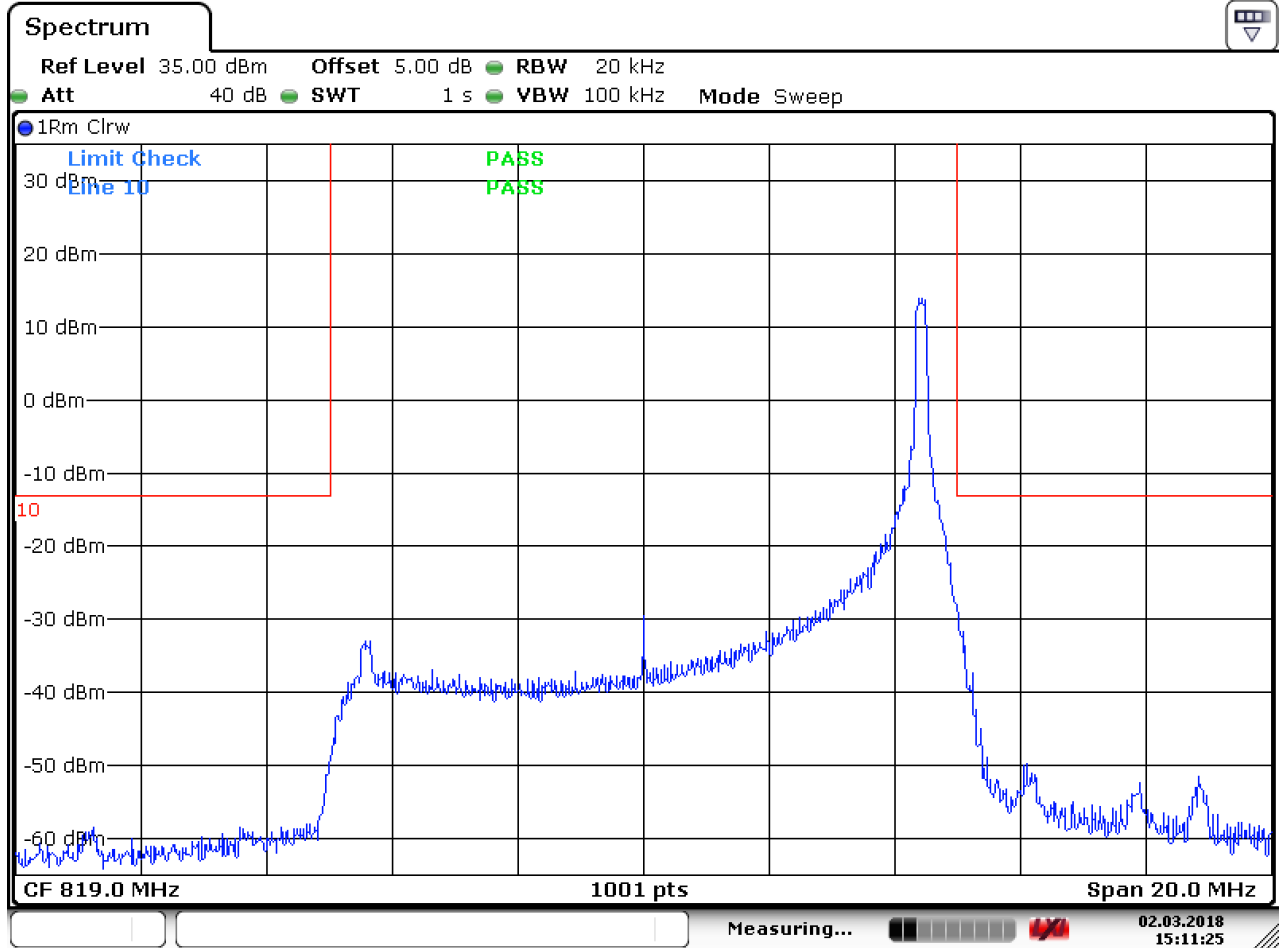
6.1.1.10.1.3 Test RB=50RB



Date: 2.MAR.2018 13:42:27



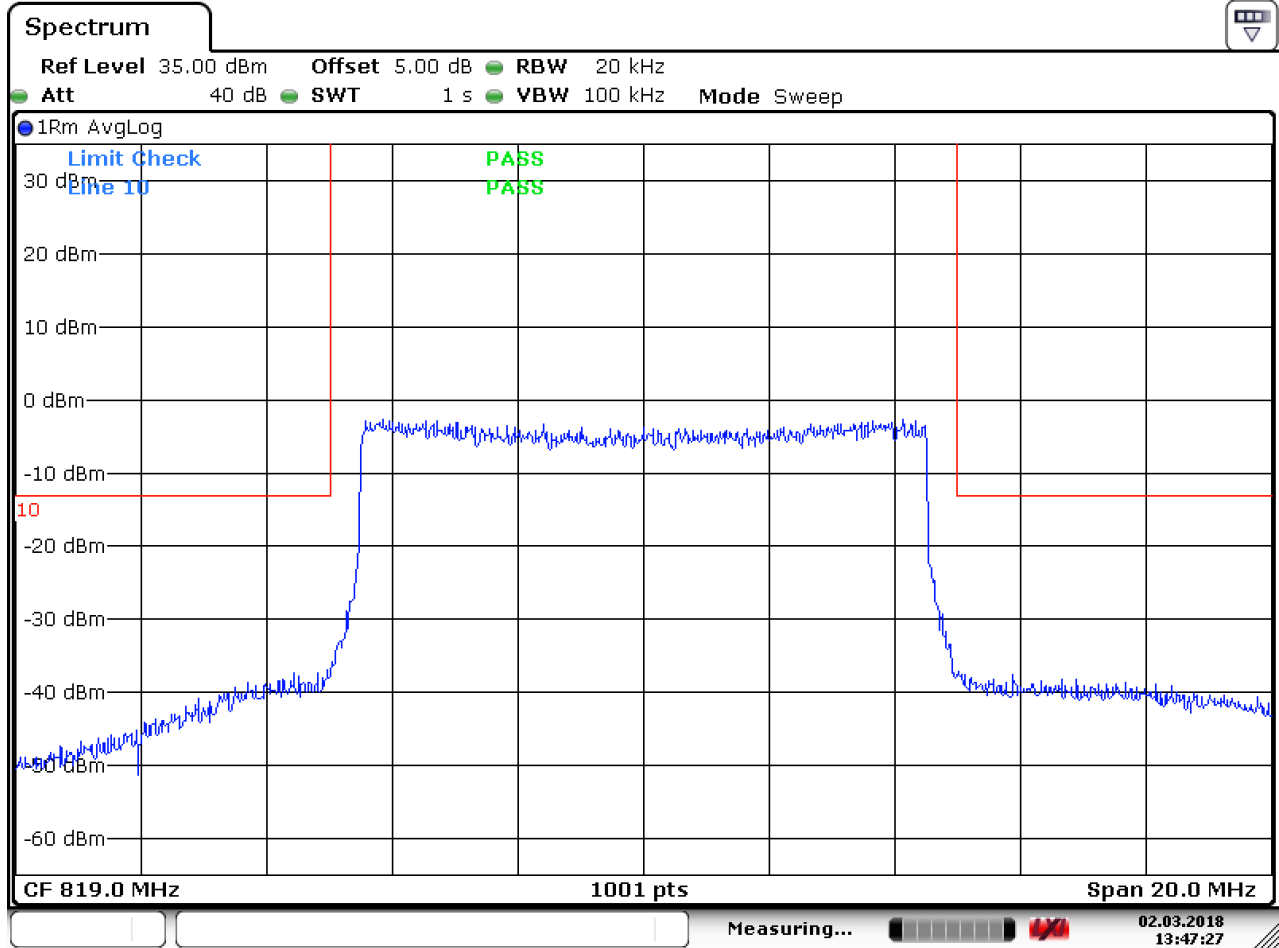
6.1.1.11.1.2 Test RB=1RB#49



Date: 2.MAR.2018 15:11:25



6.1.1.11.1.3 Test RB=50RB



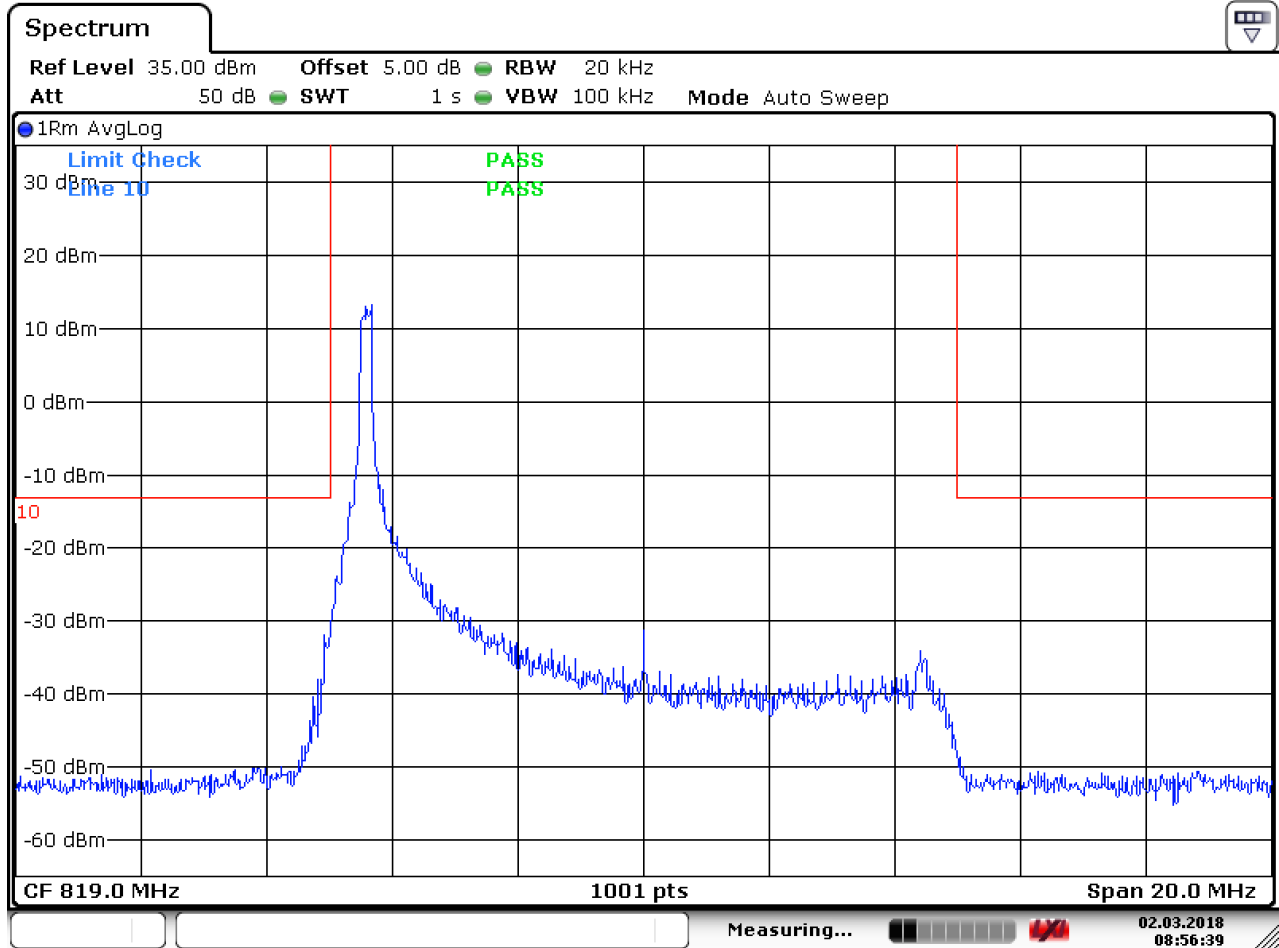
Date: 2.MAR.2018 13:47:27



6.1.1.12 Test Mode = LTE/TM3 10MHz

6.1.1.12.1 Test Channel = LCH/ MCH/HCH

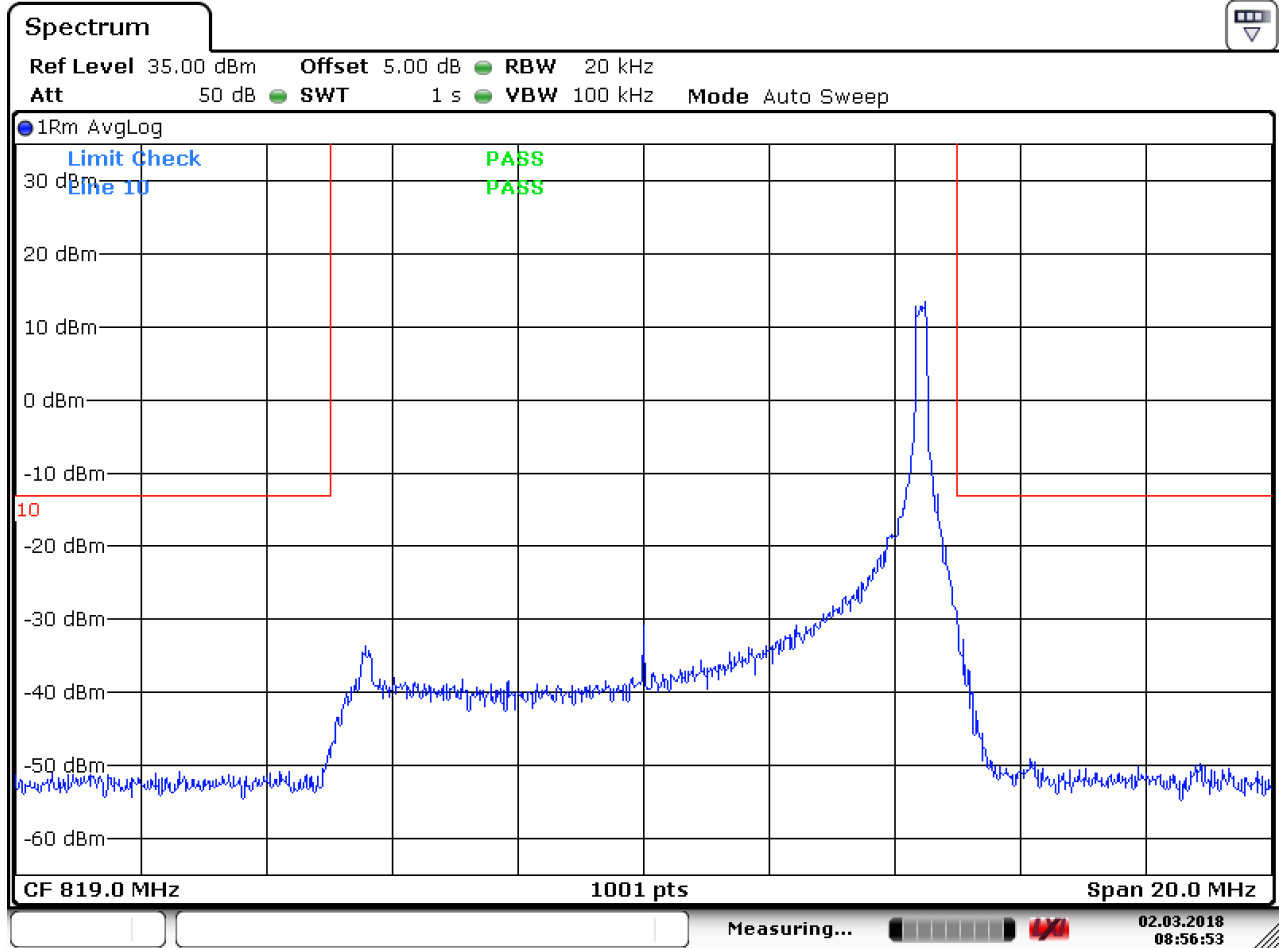
6.1.1.12.1.1 Test RB=1RB#0



Date: 2.MAR.2018 08:56:39

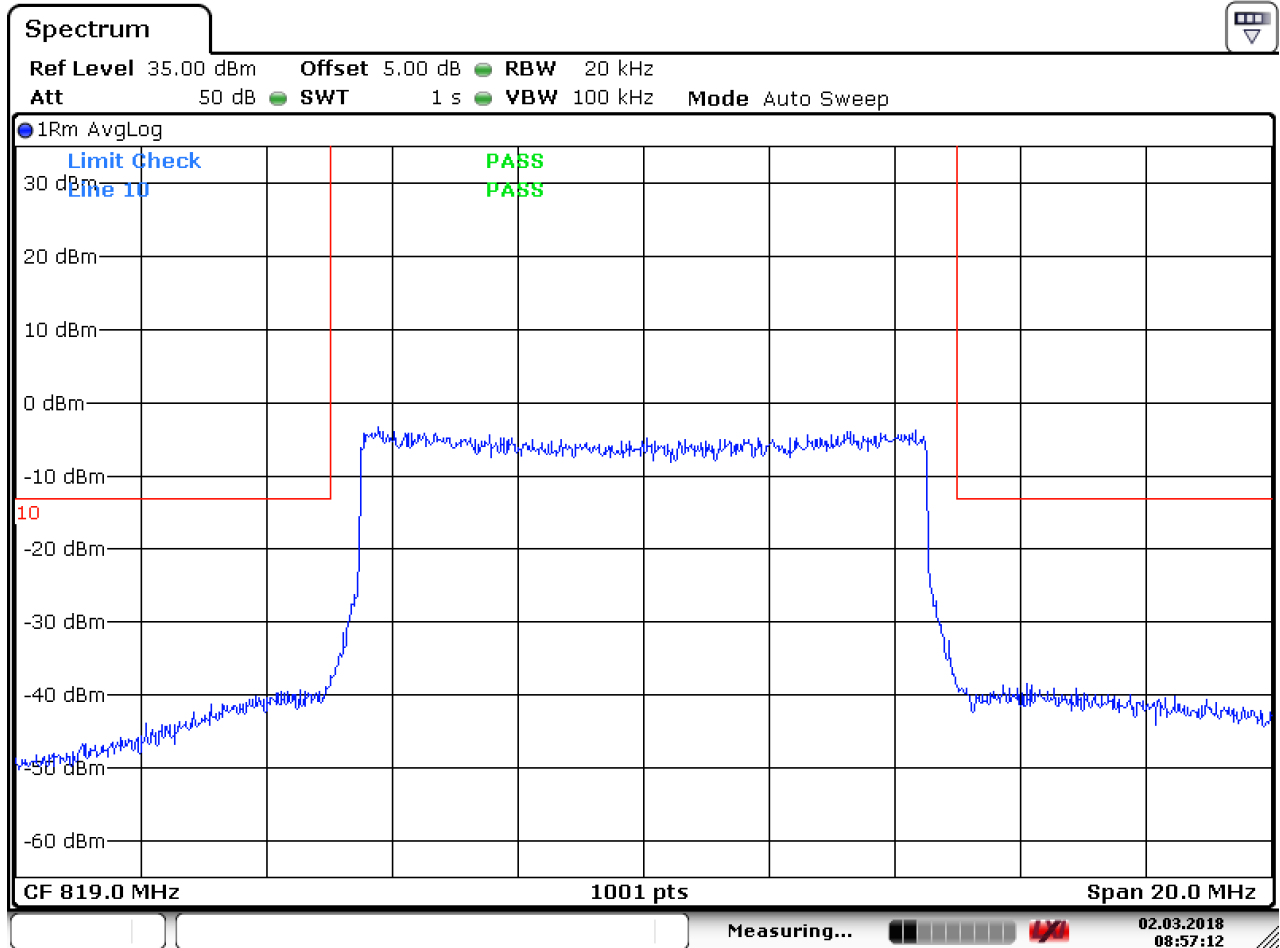


6.1.1.12.1.2 Test RB=1RB#49



Date: 2.MAR.2018 08:56:54

6.1.1.12.1.3 Test RB=50RB



Date: 2.MAR.2018 08:57:11

7 Spurious Emission at Antenna Terminal

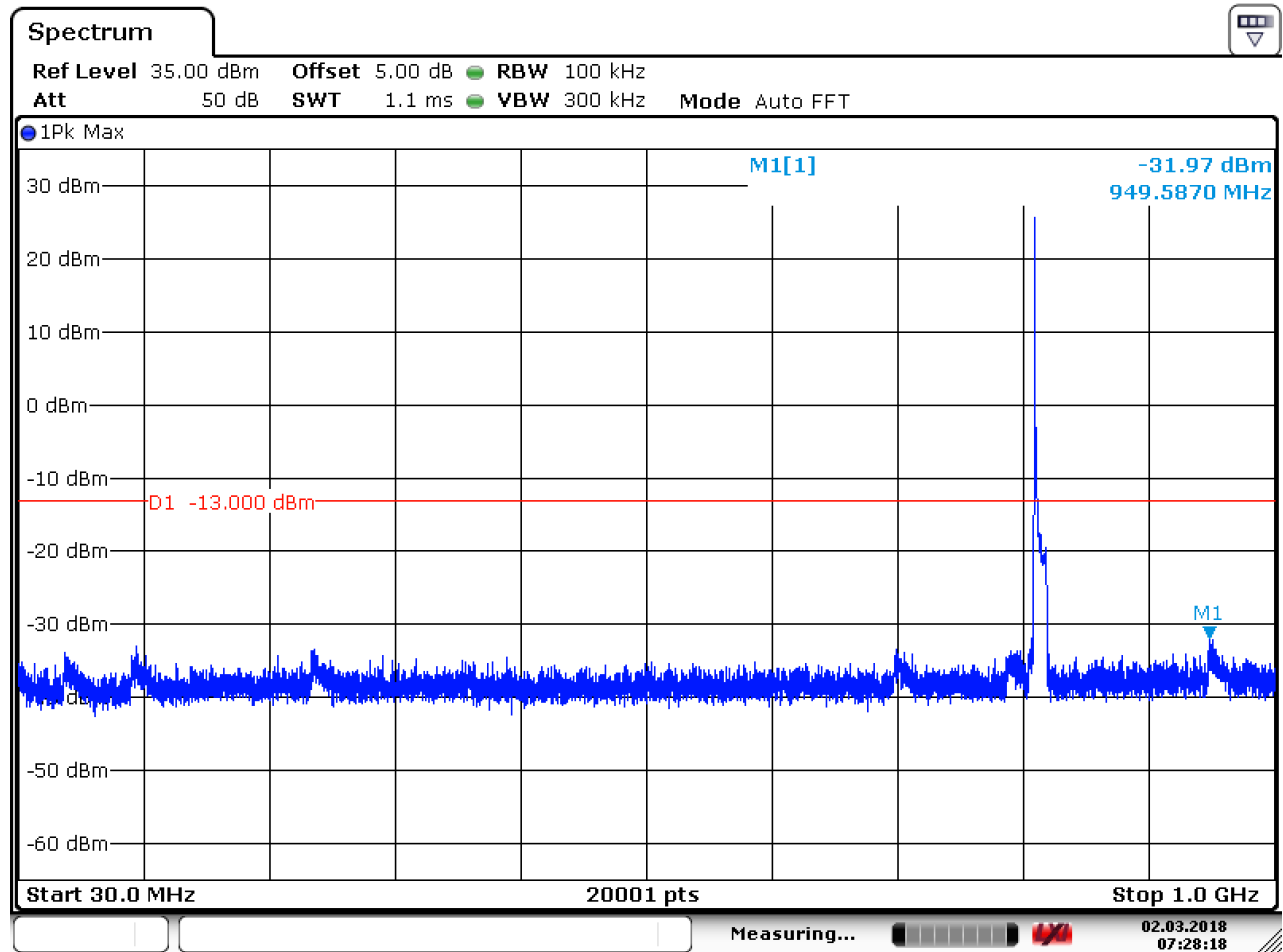
NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k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

Part I - Test Plots

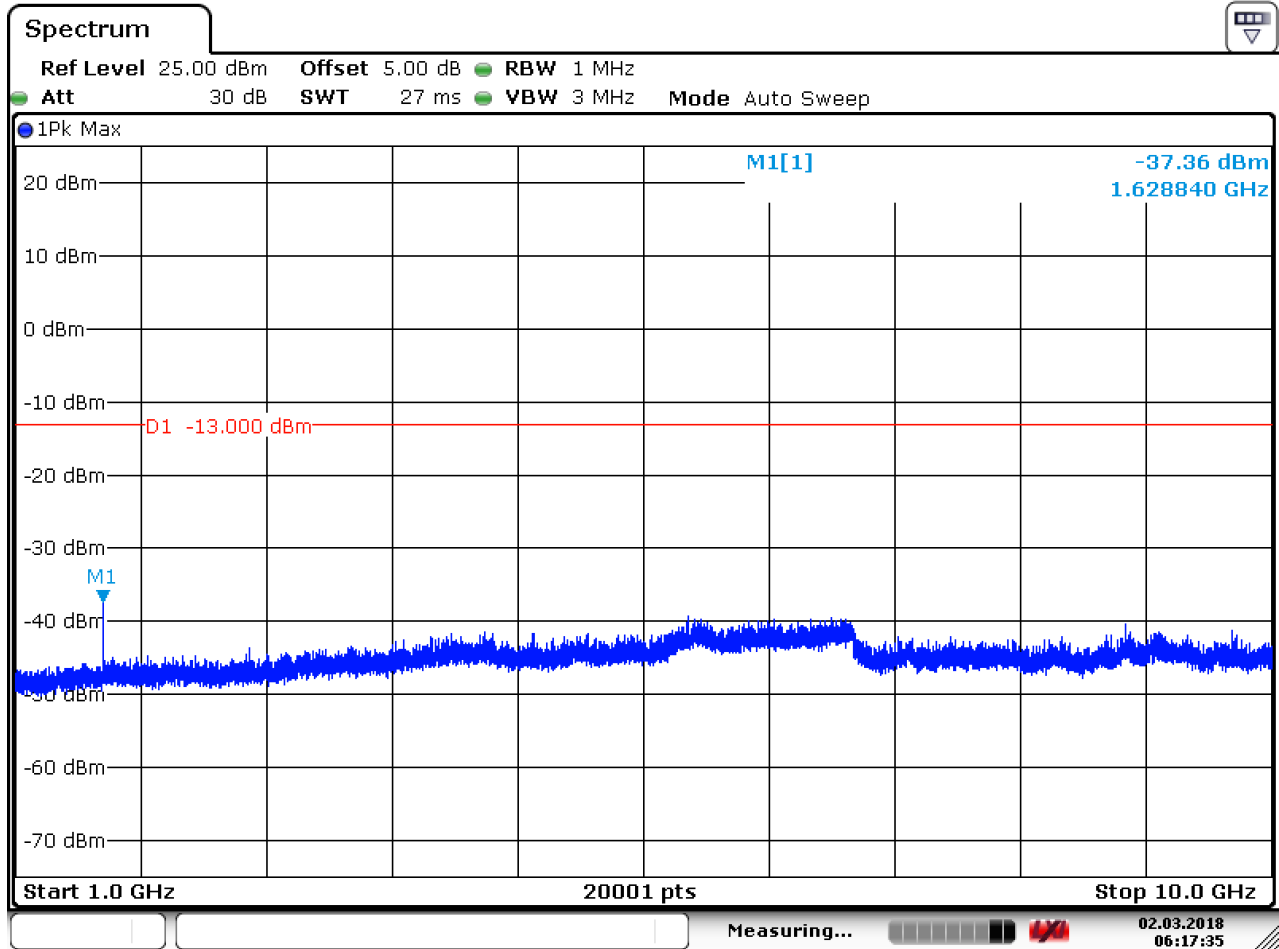
7.1 For LTE

7.1.1.1 Test Mode = LTE / TM1 10MHz RB1#0

7.1.1.1.1 Test Channel = LCH/MCH/HCH



Date: 2.MAR.2018 07:28:18



Date: 2.MAR.2018 06:17:35



8 Field Strength of Spurious Radiation

8.1 For LTE

8.1.1 Test Band = LTE band26

Diversity antenna

8.1.1.1 Test Mode =LTE/TM1 10MHz RB1#0

8.1.1.1.1 Test Channel = LCH/MCH/HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 40.173333 | -78.04 | -13.00 | 65.04 | Vertical |
| 72.606667 | -73.59 | -13.00 | 60.59 | Vertical |
| 1103.000000 | -66.36 | -13.00 | 53.36 | Vertical |
| 2608.000000 | -58.15 | -13.00 | 45.15 | Vertical |
| 4211.432500 | -67.13 | -13.00 | 54.13 | Vertical |
| 9265.837500 | -64.02 | -13.00 | 51.02 | Vertical |
| 62.946667 | -77.05 | -13.00 | 64.05 | Horizontal |
| 74.006667 | -80.04 | -13.00 | 67.04 | Horizontal |
| 620.912500 | -78.77 | -13.00 | 65.77 | Horizontal |
| 1673.500000 | -65.05 | -13.00 | 52.05 | Horizontal |
| 3955.012500 | -68.35 | -13.00 | 55.35 | Horizontal |
| 7917.412500 | -63.99 | -13.00 | 50.99 | Horizontal |



Main antenna

8.1.1.2 Test Mode =LTE/TM1 10MHz RB1#0

8.1.1.2.1 Test Channel = LCH/MCH/HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 69.526667 | -82.05 | -13.00 | 69.05 | Vertical |
| 621.508333 | -80.47 | -13.00 | 67.47 | Vertical |
| 1630.500000 | -64.27 | -13.00 | 51.27 | Vertical |
| 2710.000000 | -57.47 | -13.00 | 44.47 | Vertical |
| 4461.037500 | -67.43 | -13.00 | 54.43 | Vertical |
| 7235.400000 | -64.62 | -13.00 | 51.62 | Vertical |
| 56.553333 | -77.93 | -13.00 | 64.93 | Horizontal |
| 171.633333 | -84.66 | -13.00 | 71.66 | Horizontal |
| 1103.000000 | -66.44 | -13.00 | 53.44 | Horizontal |
| 4298.212500 | -66.47 | -13.00 | 53.47 | Horizontal |
| 6551.925000 | -64.19 | -13.00 | 51.19 | Horizontal |
| 9220.500000 | -63.28 | -13.00 | 50.28 | Horizontal |

NOTE:

- 1) All modes are tested, but the data presented above is the worst case. 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.



9 Frequency Stability

9.1 Frequency Error VS. Voltage

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|------------|------------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTE band26 | LTE/TM1 10MHz | LCH/MCH/HCH | TN | VL | -2.65 | -0.00323 | PASS |
| | | | | VN | 1.41 | 0.00181 | PASS |
| | | | | VH | -5.22 | -0.00624 | PASS |
| | LTE/TM2 10MHz | LCH/MCH/HCH | TN | VL | -4.32 | -0.00517 | PASS |
| | | | | VN | -3.34 | -0.00404 | PASS |
| | | | | VH | -4.12 | -0.00495 | PASS |
| | LTE/TM3 10MHz | LCH/MCH/HCH | TN | VL | 4.03 | 0.00482 | PASS |
| | | | | VN | 5.02 | 0.00603 | PASS |
| | | | | VH | -0.53 | -0.00067 | PASS |

9.2 Frequency Error VS. Temperature

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|------------|------------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTE band26 | LTE/TM1 10MHz | LCH/MCH/HCH | VN | -30 | -4.38 | -0.005284 | PASS |
| | | | | -20 | -2.61 | -0.003132 | PASS |
| | | | | -10 | -2.48 | -0.00287 | PASS |
| | | | | 0 | 1.23 | 0.00148 | PASS |
| | | | | 10 | 1.21 | 0.00144 | PASS |
| | | | | 20 | 3.91 | 0.00470 | PASS |
| | | | | 30 | -0.66 | -0.00077 | PASS |
| | | | | 40 | -2.78 | -0.00337 | PASS |
| | | | | 50 | -6.21 | -0.00747 | PASS |

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|------------|------------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTE band26 | LTE/TM2 10MHz | LCH/MCH/HCH | VN | -30 | -3.65 | -0.00439 | PASS |
| | | | | -20 | -2.46 | -0.00296 | PASS |
| | | | | -10 | 1.27 | 0.00153 | PASS |
| | | | | 0 | 2.24 | 0.00268 | PASS |
| | | | | 10 | 1.78 | 0.00211 | PASS |
| | | | | 20 | -0.84 | -0.00098 | PASS |
| | | | | 30 | -3.86 | -0.00463 | PASS |
| | | | | 40 | 2.27 | 0.00272 | PASS |
| | | | | 50 | -4.83 | -0.00580 | PASS |



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Report No.: SZEM180200138804

Page: 190 of 190

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|------------|---------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTE band26 | LTE/TM3 10MHz | LCH/MCH/HCH | VN | -30 | -3.67 | -0.00441 | PASS |
| | | | | -20 | -2.44 | -0.00293 | PASS |
| | | | | -10 | 1.89 | 0.00227 | PASS |
| | | | | 0 | 2.35 | 0.00283 | PASS |
| | | | | 10 | 1.78 | 0.00214 | PASS |
| | | | | 20 | -0.89 | -0.00107 | PASS |
| | | | | 30 | -3.83 | -0.00461 | PASS |
| | | | | 40 | 2.45 | 0.00295 | PASS |
| 50 | -4.38 | -0.00527 | PASS | | | | |

The End