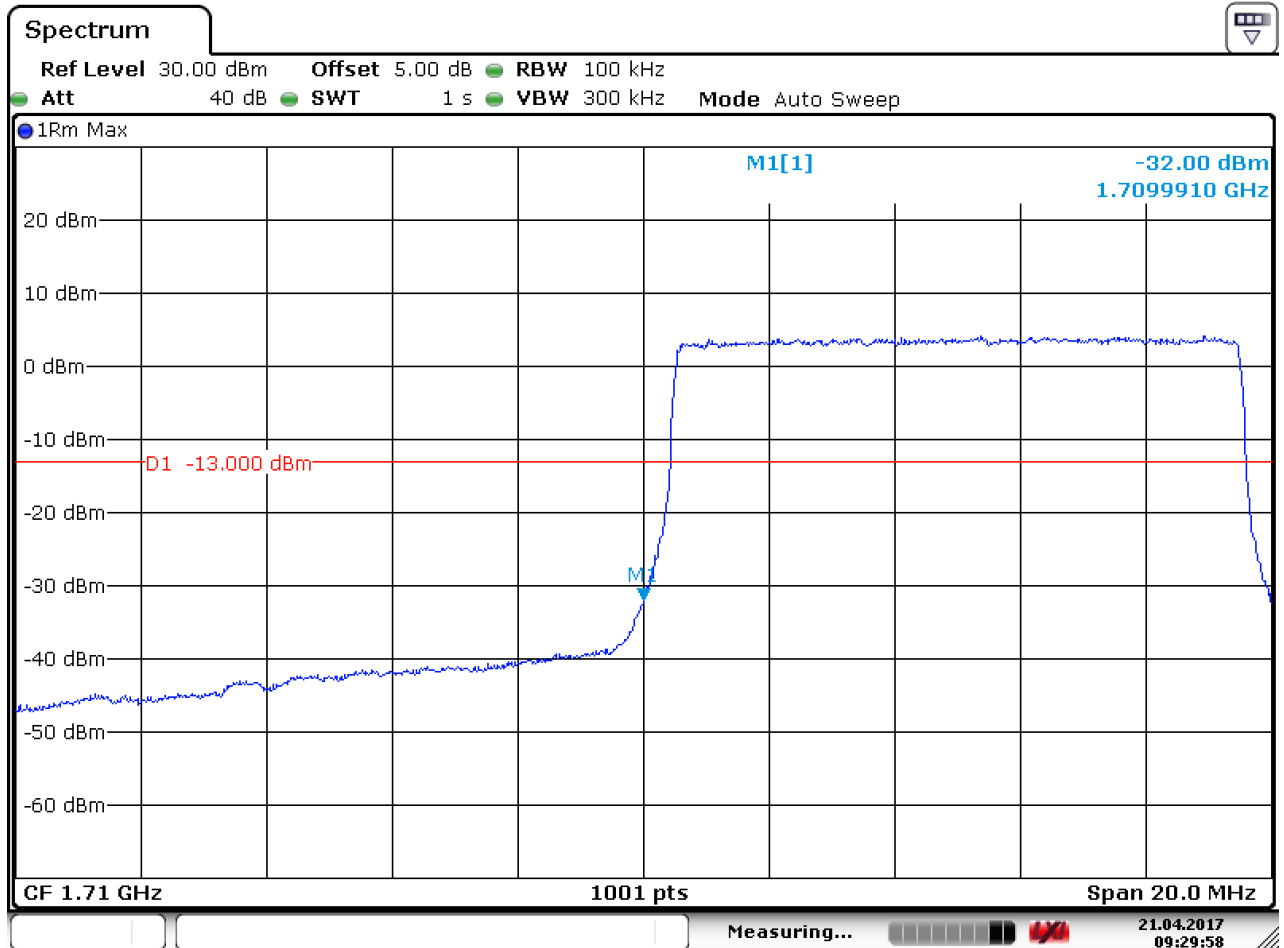




5.1.1.7.1.2 Test RB=50RB

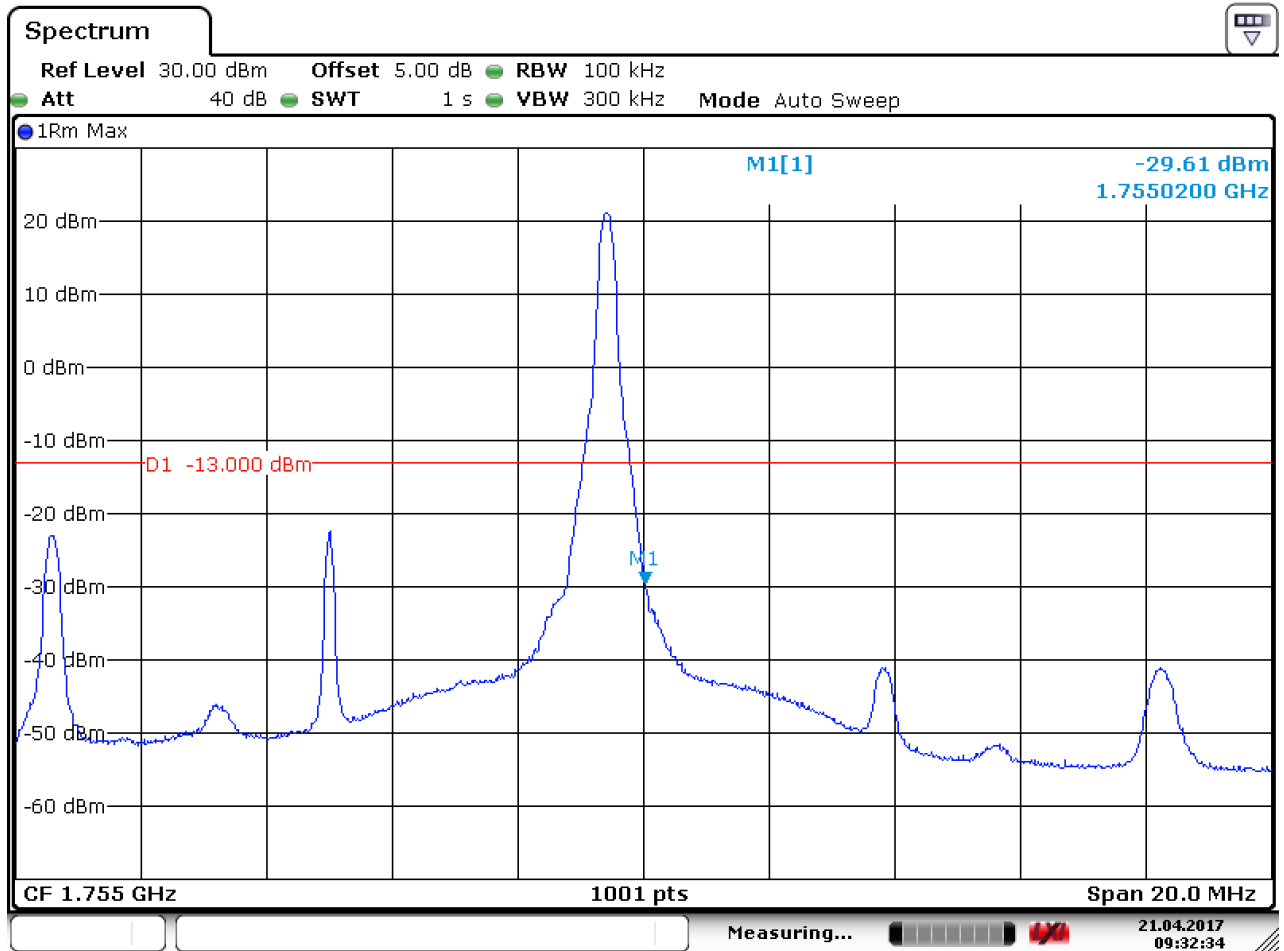


Date: 21.APR.2017 09:29:58



5.1.1.7.2 Test Channel = HCH

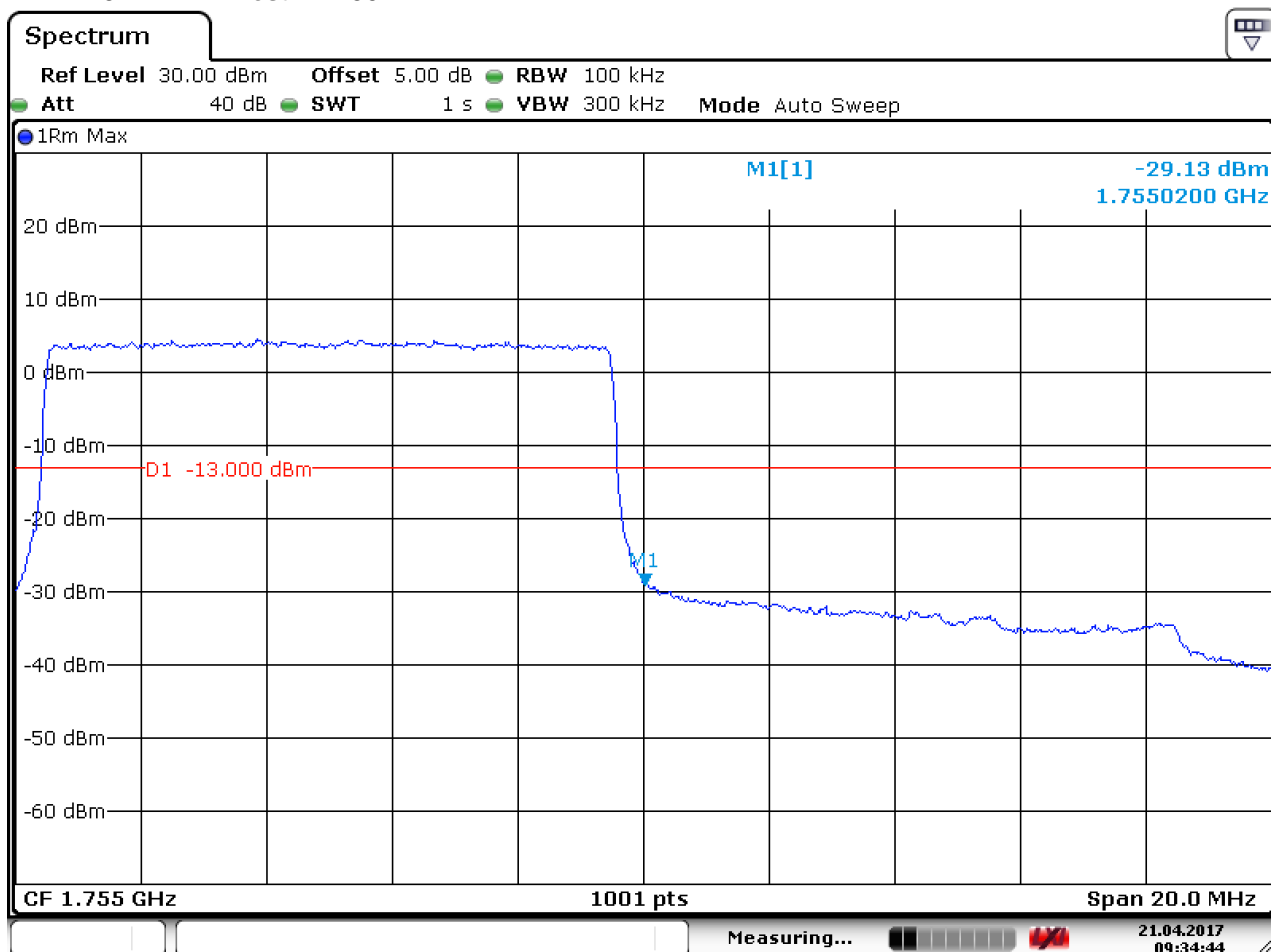
5.1.1.7.2.1 Test RB=1RB



Date: 21.APR.2017 09:32:35



5.1.1.7.2.2 Test RB=50RB



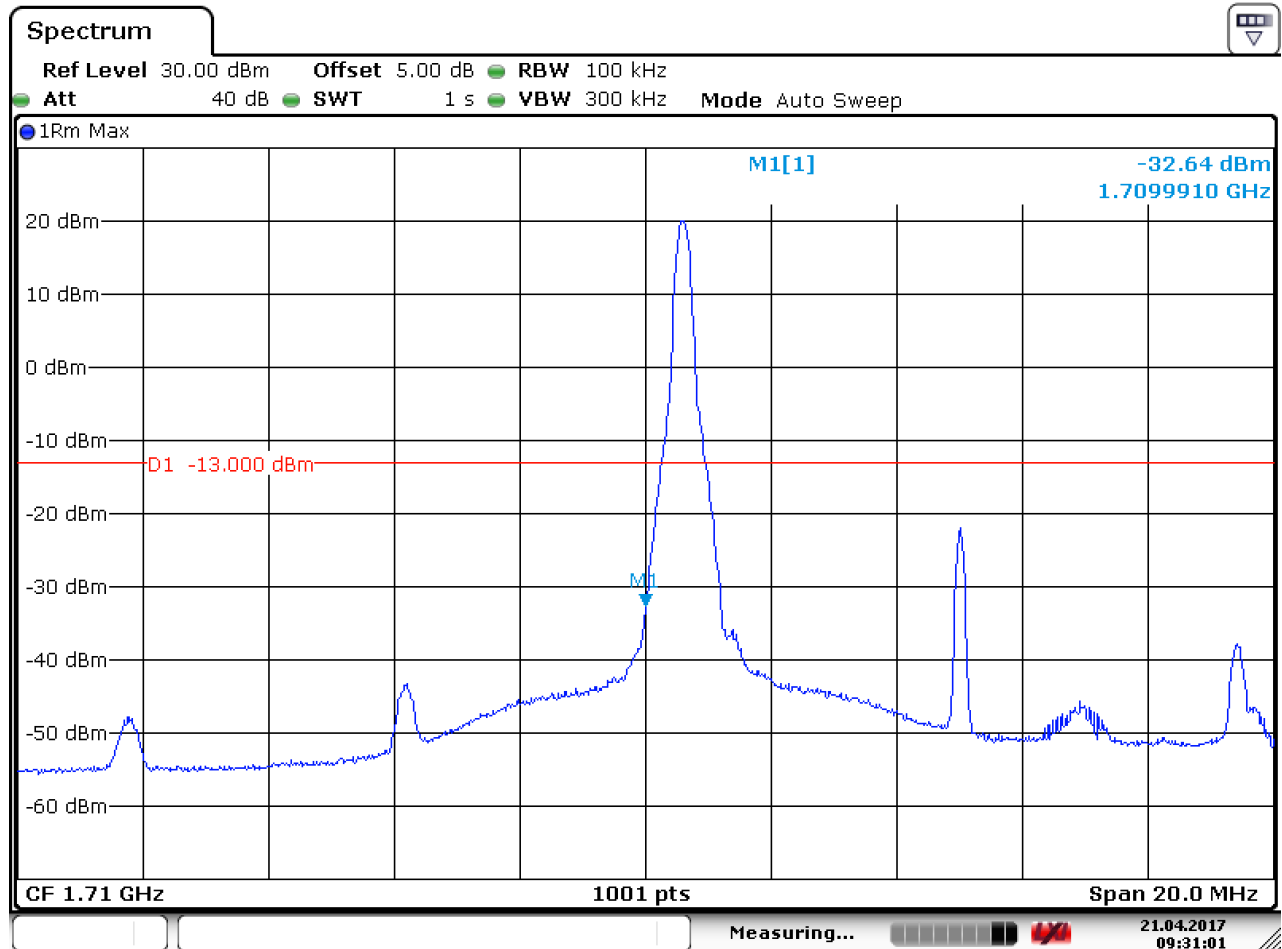
Date: 21.APR.2017 09:34:45



5.1.1.8 Test Mode = LTE/TM2 10MHz

5.1.1.8.1 Test Channel = LCH

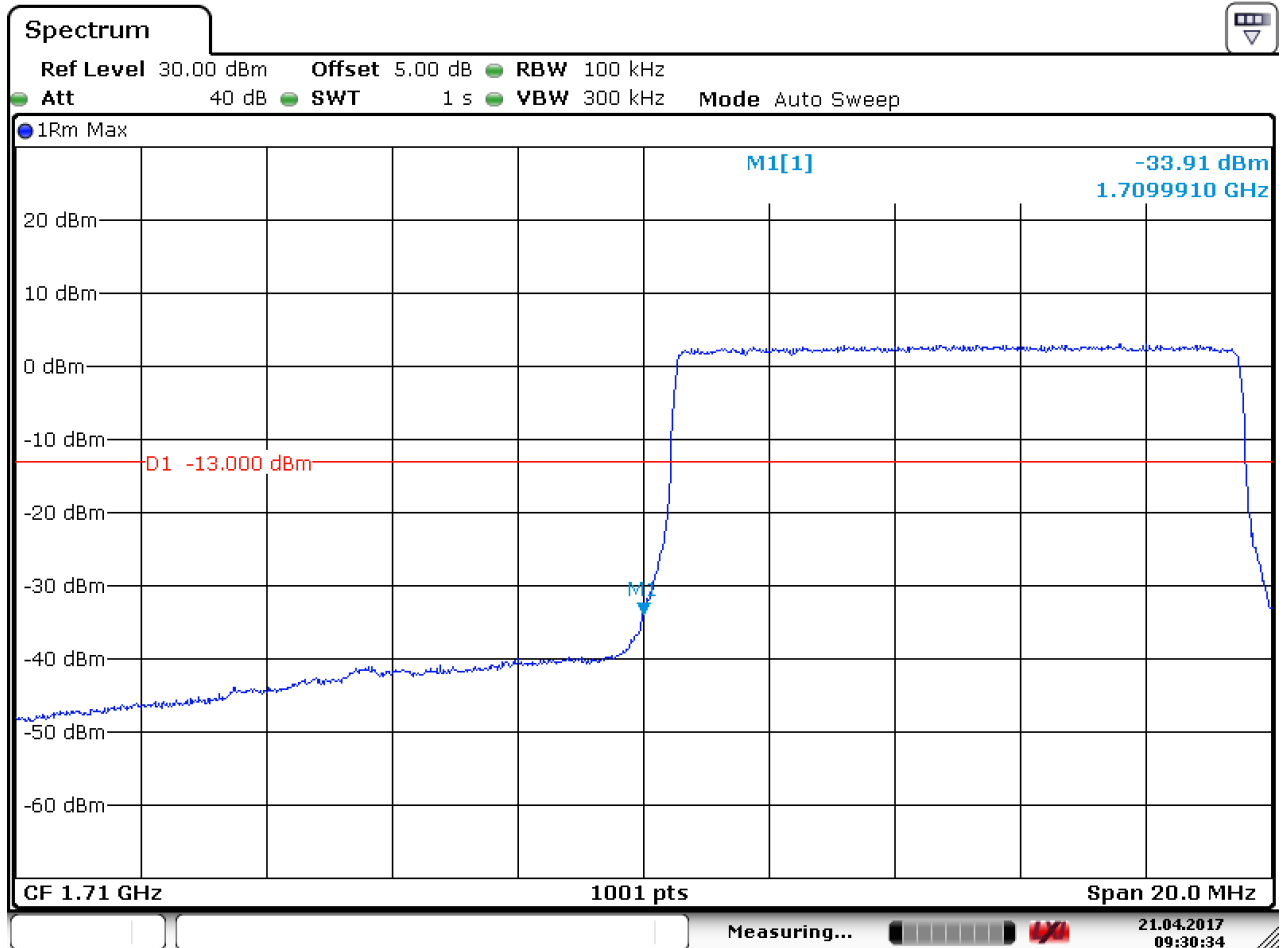
5.1.1.8.1.1 Test RB=1RB



Date: 21.APR.2017 09:31:02



5.1.1.8.1.2 Test RB=50RB

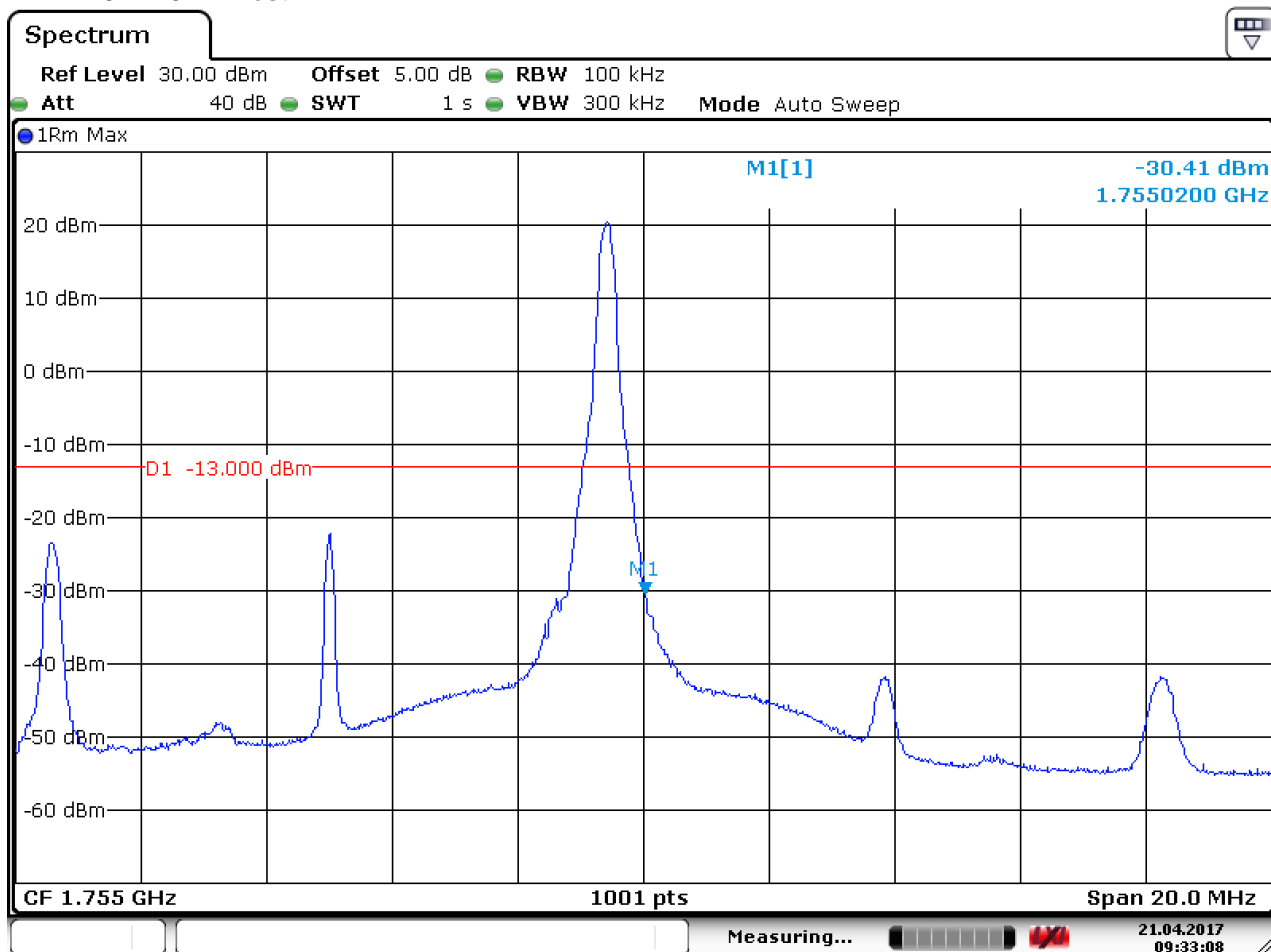


Date: 21.APR.2017 09:30:34



5.1.1.8.2 Test Channel = HCH

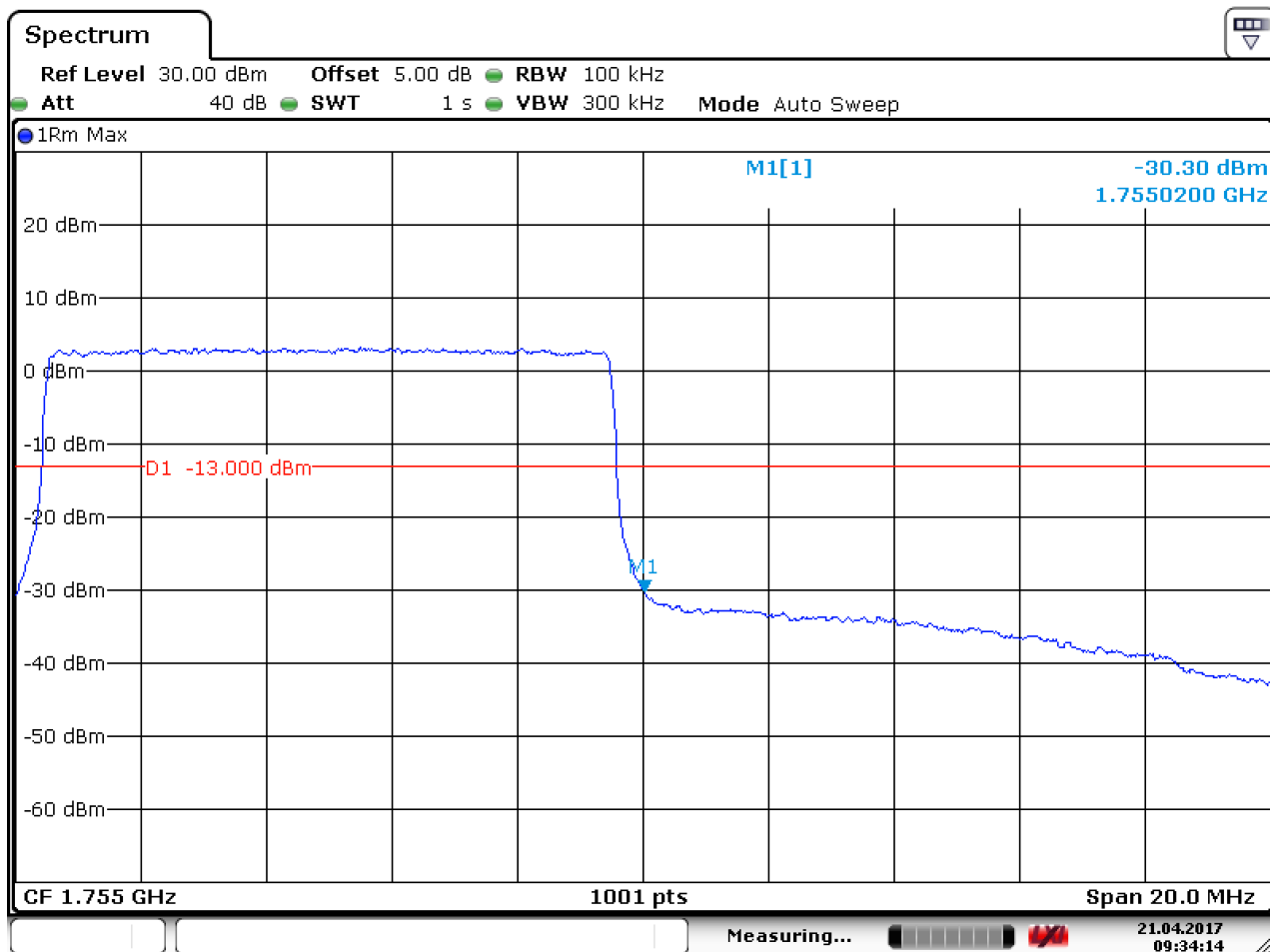
5.1.1.8.2.1 Test RB=1RB



Date: 21.APR.2017 09:33:08



5.1.1.8.2.2 Test RB=50RB



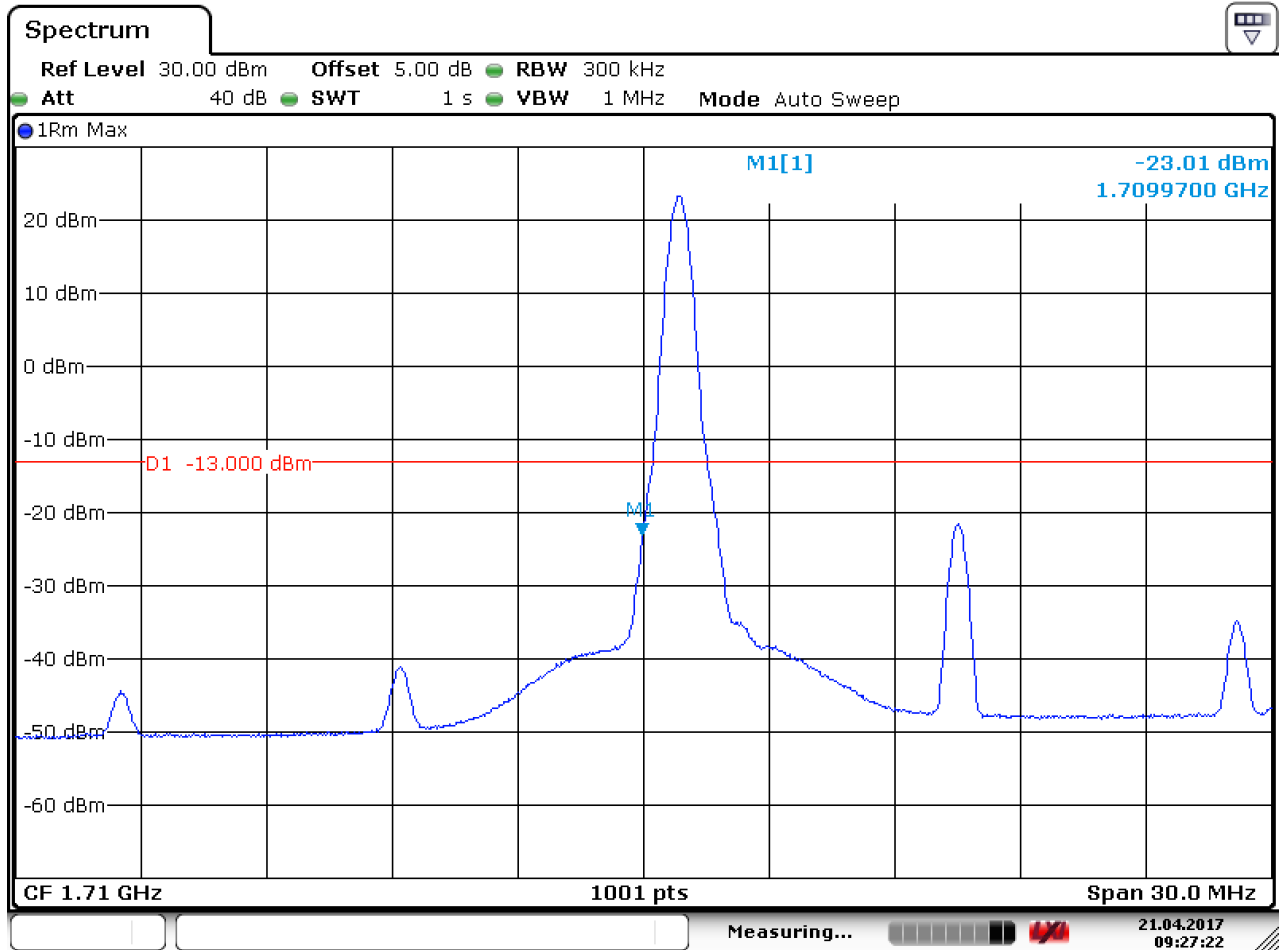
Date: 21.APR.2017 09:34:14



5.1.1.9 Test Mode = LTE/TM1 15MHz

5.1.1.9.1 Test Channel = LCH

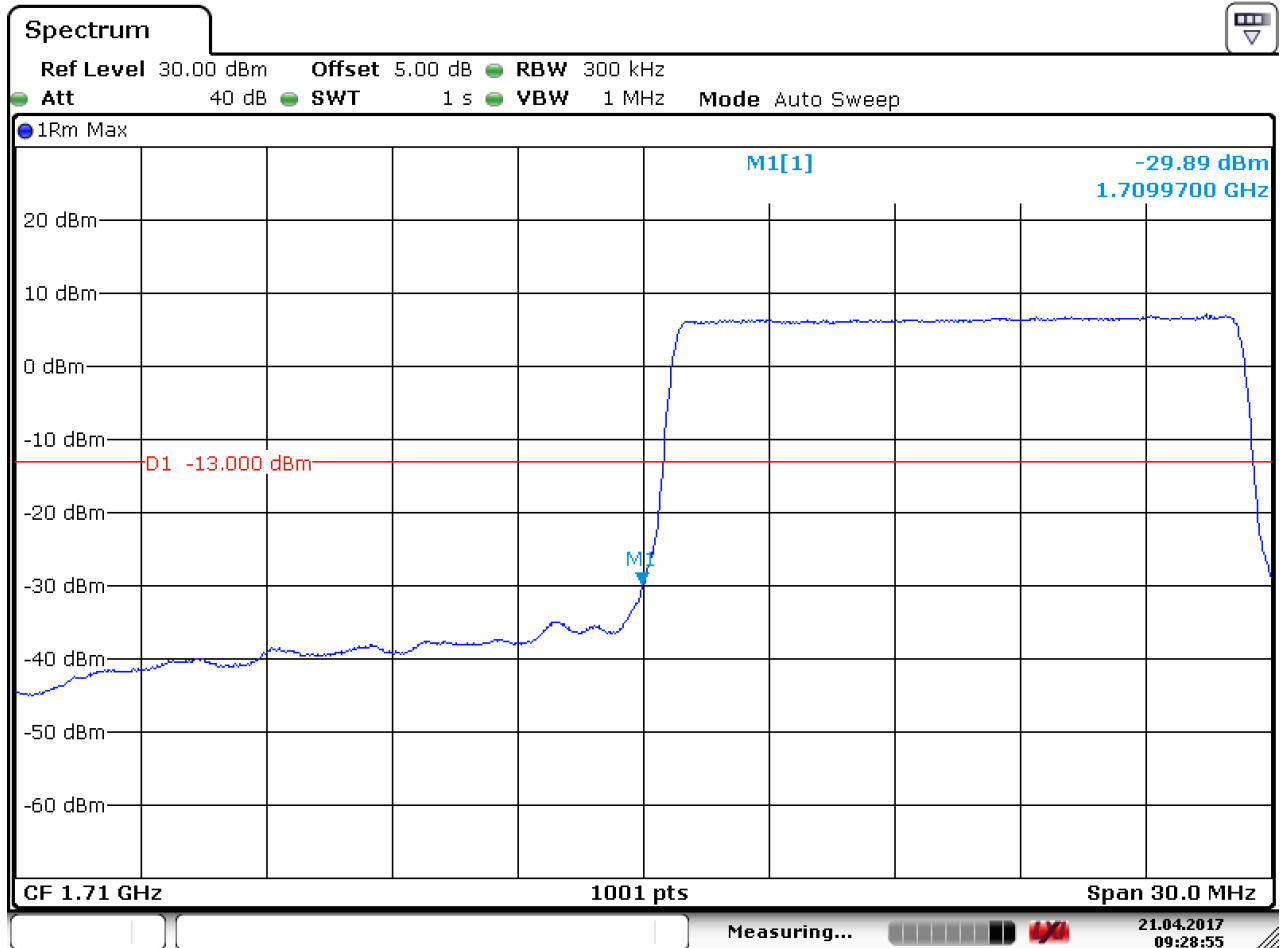
5.1.1.9.1.1 Test RB=1RB



Date: 21.APR.2017 09:27:22



5.1.1.9.1.2 Test RB=75RB

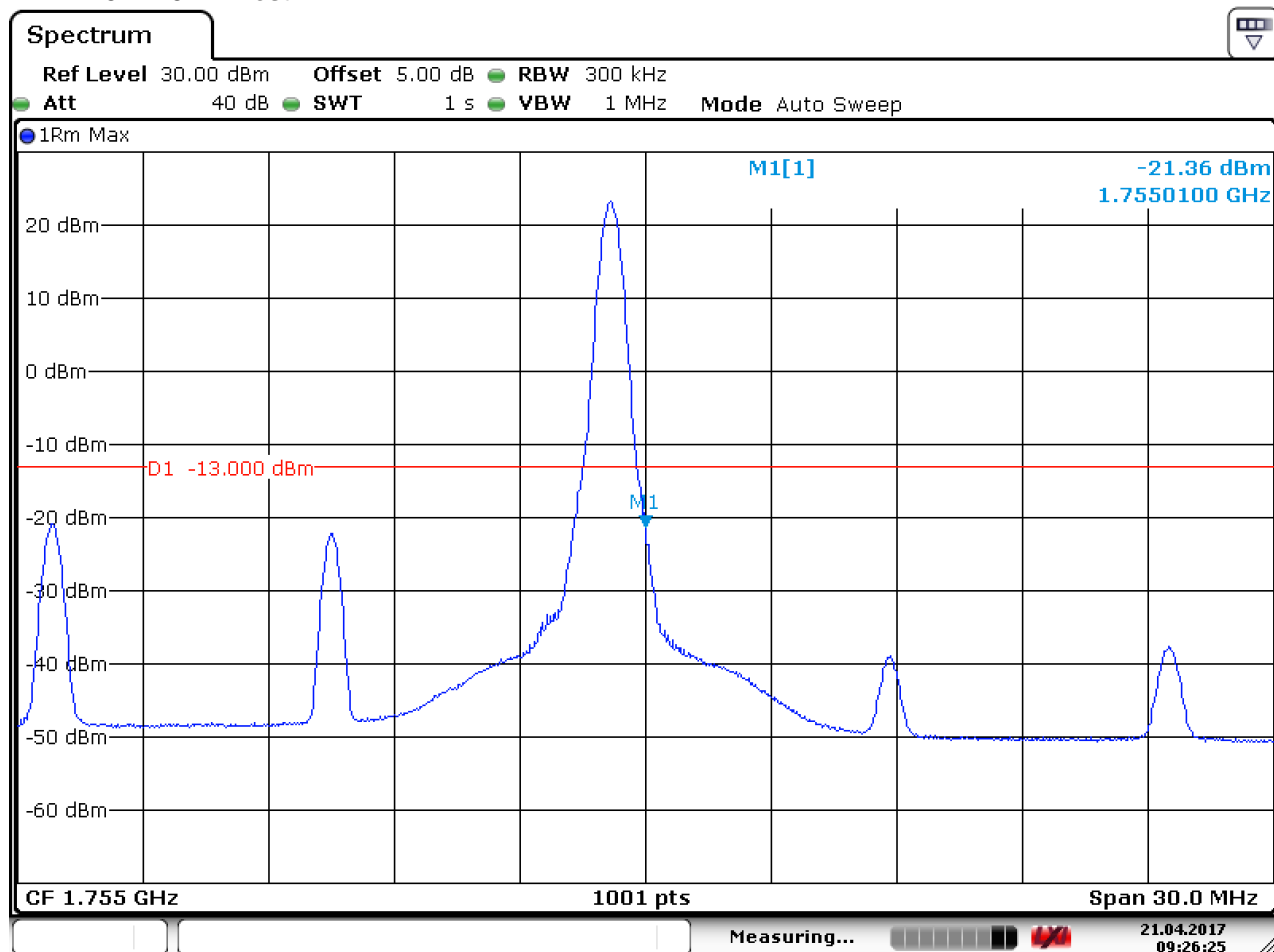


Date: 21.APR.2017 09:28:56



5.1.1.9.2 Test Channel = HCH

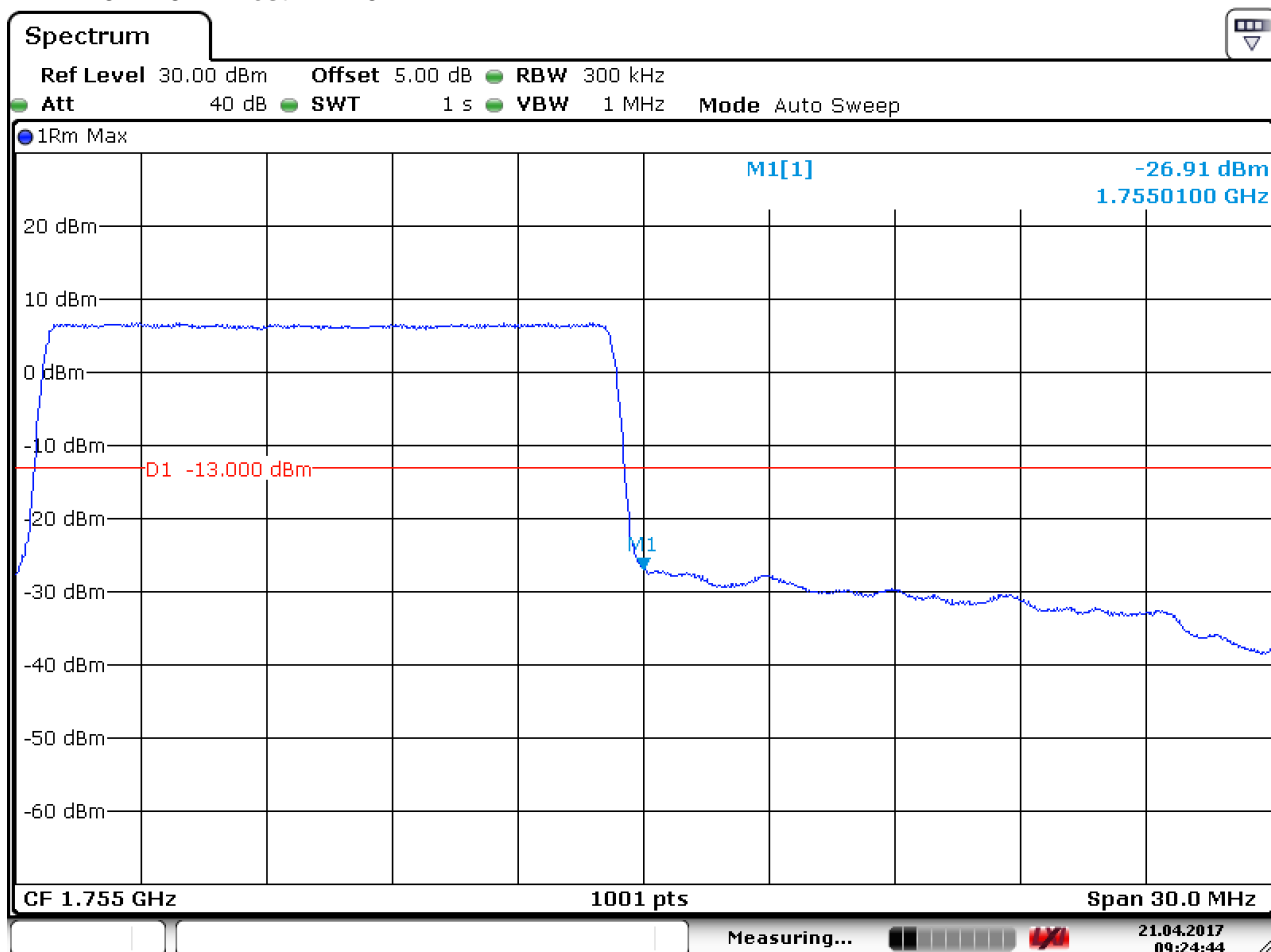
5.1.1.9.2.1 Test RB=1RB



Date: 21.APR.2017 09:26:26



5.1.1.9.2.2 Test RB=75RB



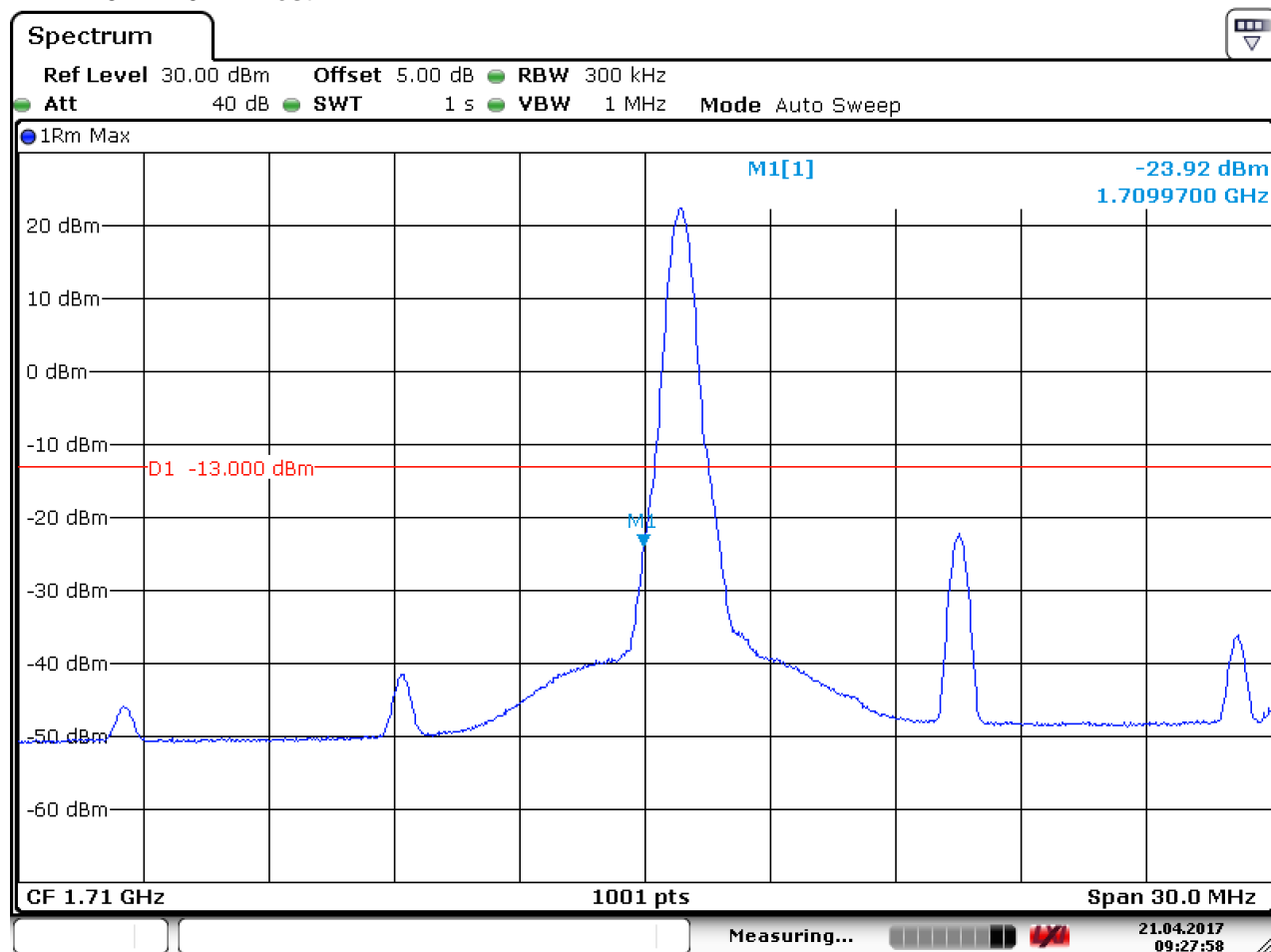
Date: 21.APR.2017 09:24:44



5.1.1.10 Test Mode = LTE/TM2 15MHz

5.1.1.10.1 Test Channel = LCH

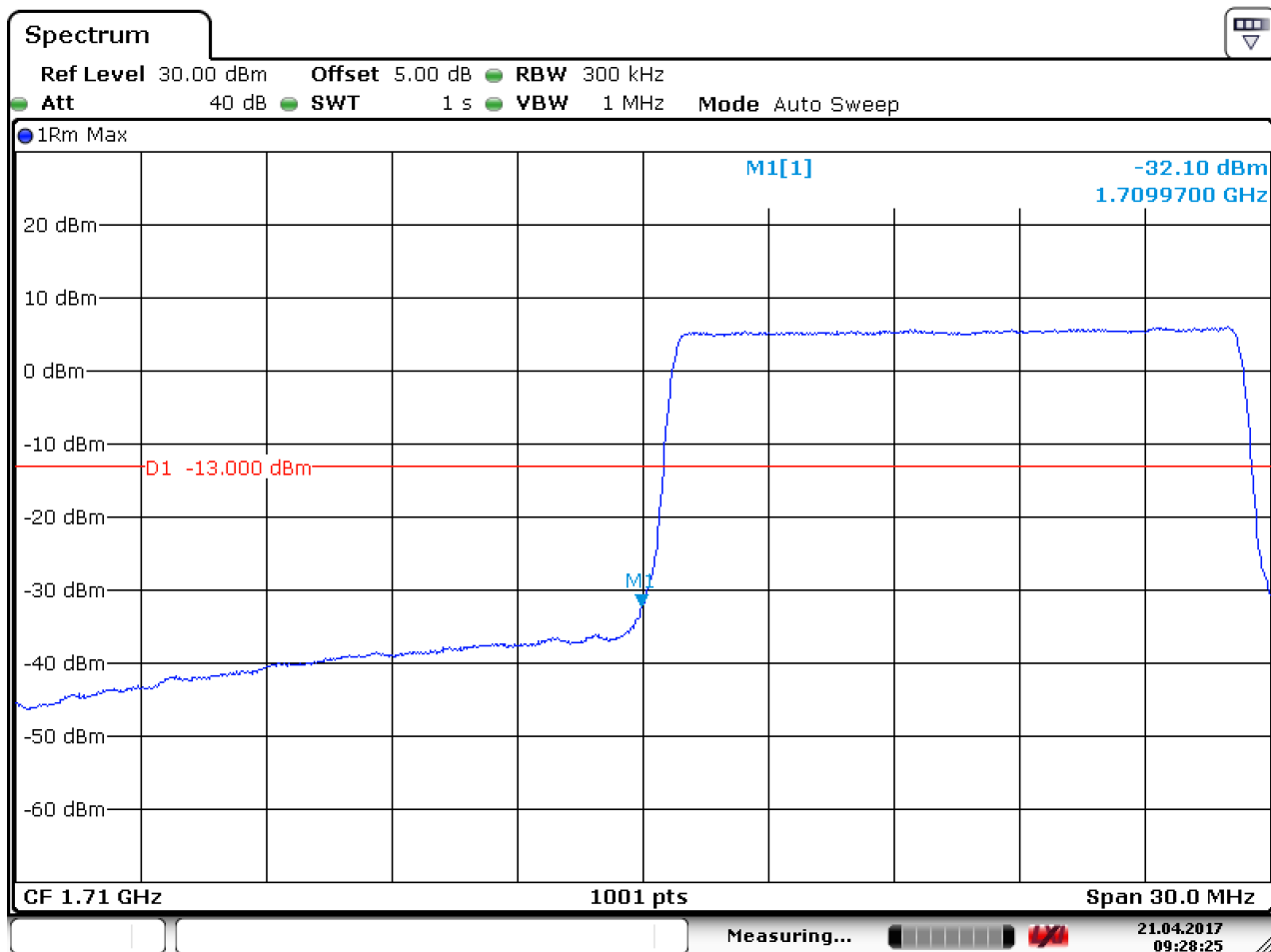
5.1.1.10.1.1 Test RB=1RB



Date: 21.APR.2017 09:27:59



5.1.1.10.1.2 Test RB=75RB

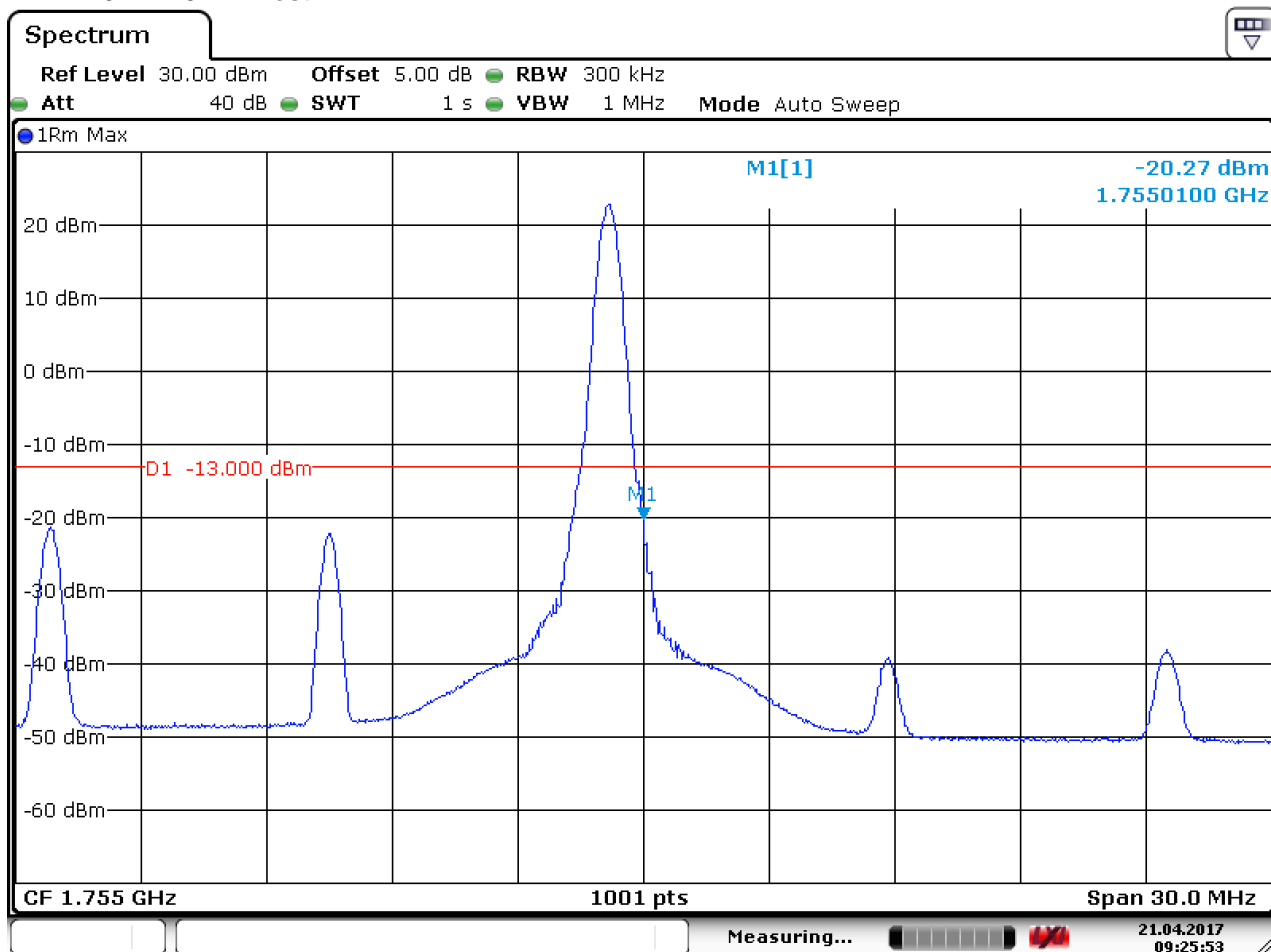


Date: 21.APR.2017 09:28:25



5.1.1.10.2 Test Channel = HCH

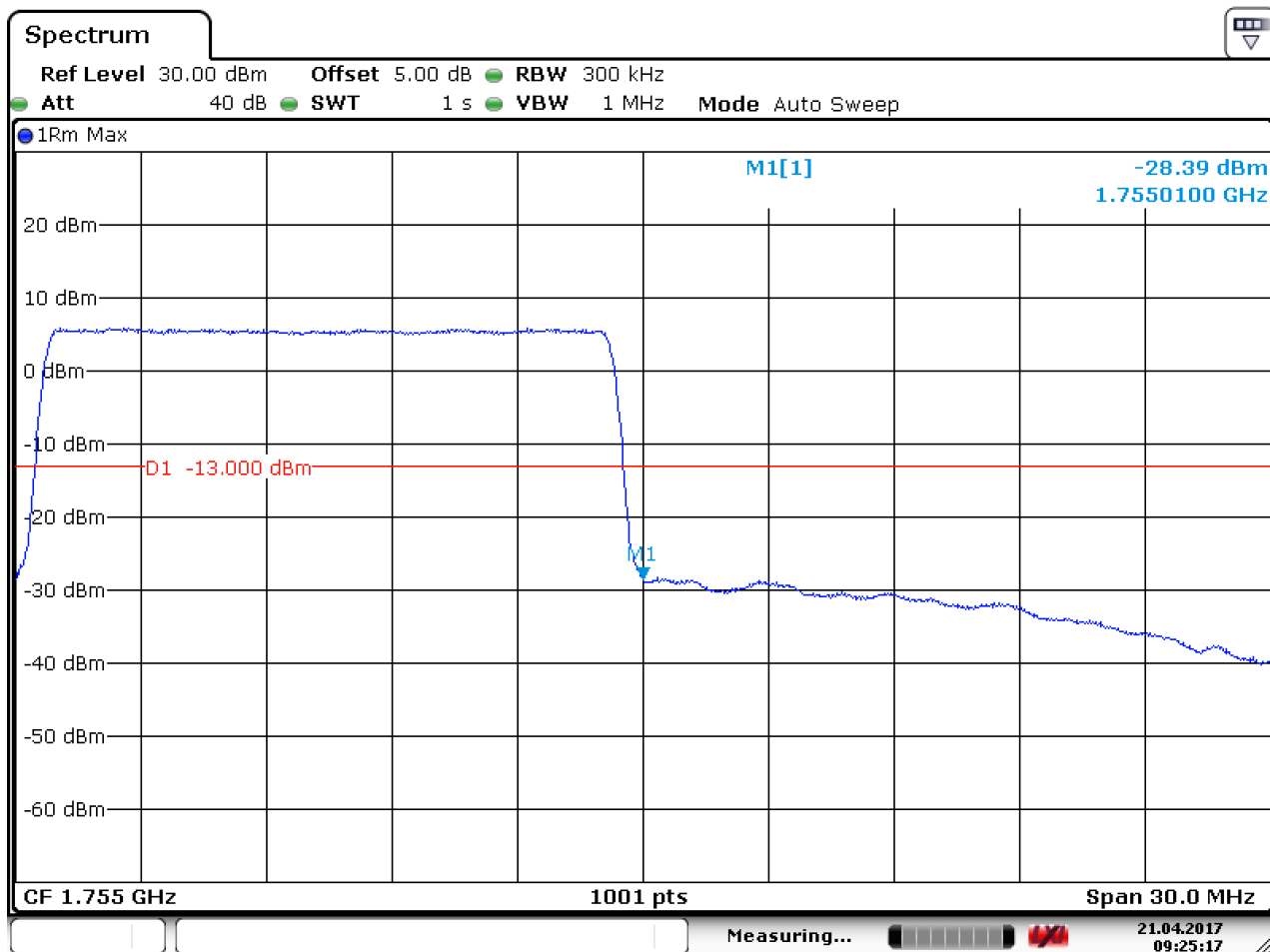
5.1.1.10.2.1 Test RB=1RB



Date: 21.APR.2017 09:25:53



5.1.1.10.2.2 Test RB=75RB

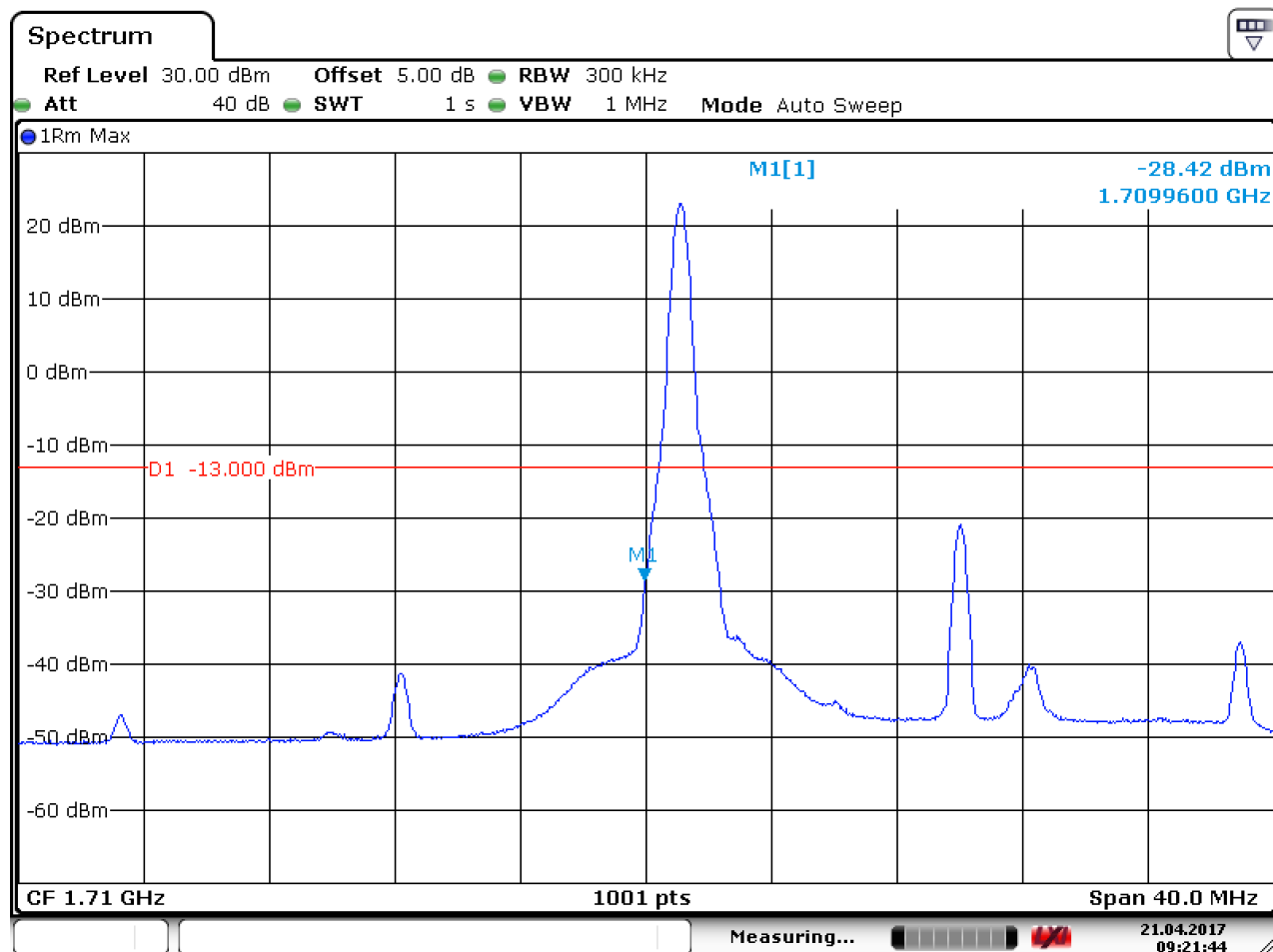


Date: 21.APR.2017 09:25:18

5.1.1.11 Test Mode = LTE/TM1 20MHz

5.1.1.11.1 Test Channel = LCH

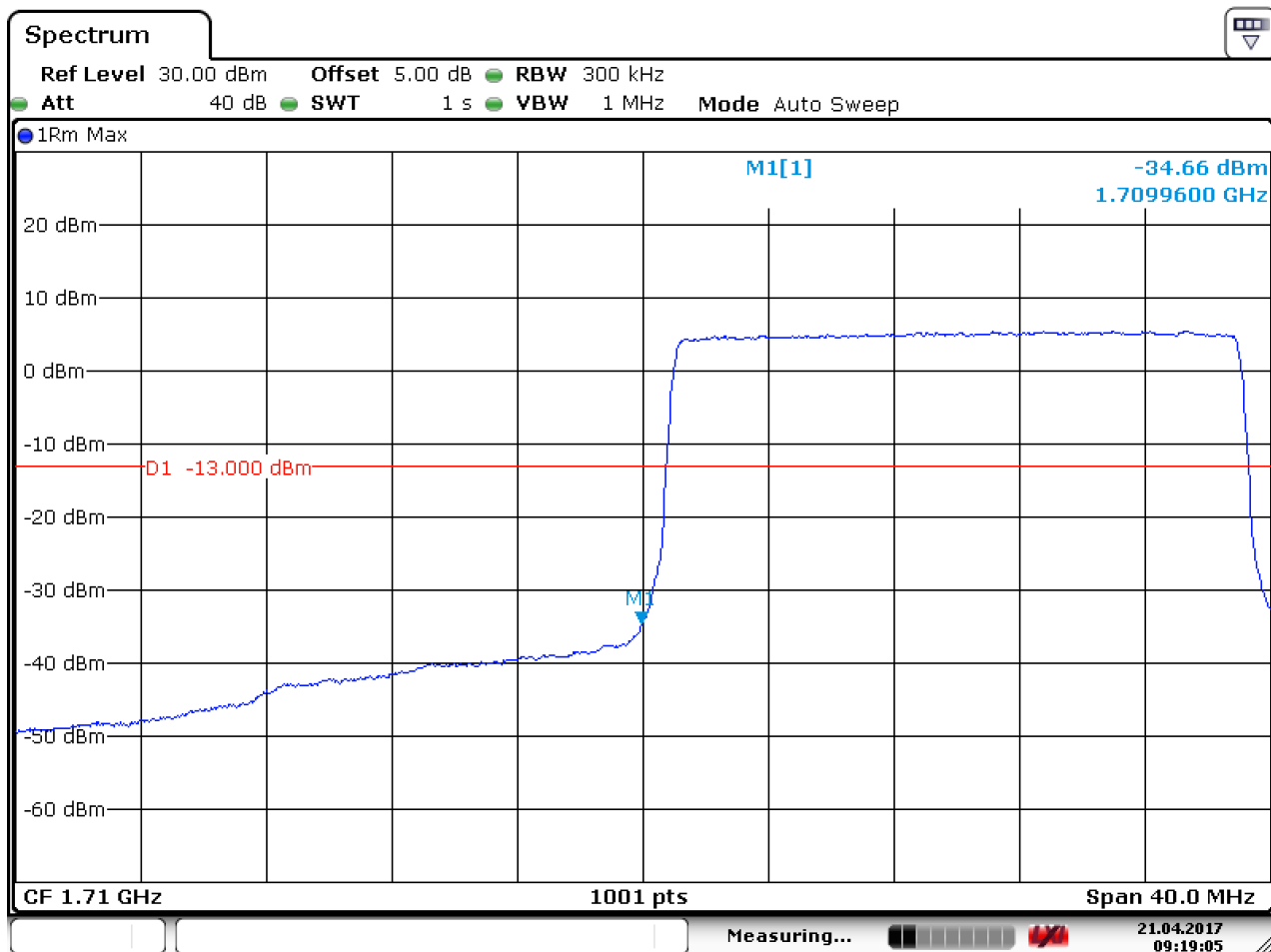
5.1.1.11.1.1 Test RB=1RB



Date: 21.APR.2017 09:21:45



5.1.11.1.2 Test RB=100RB

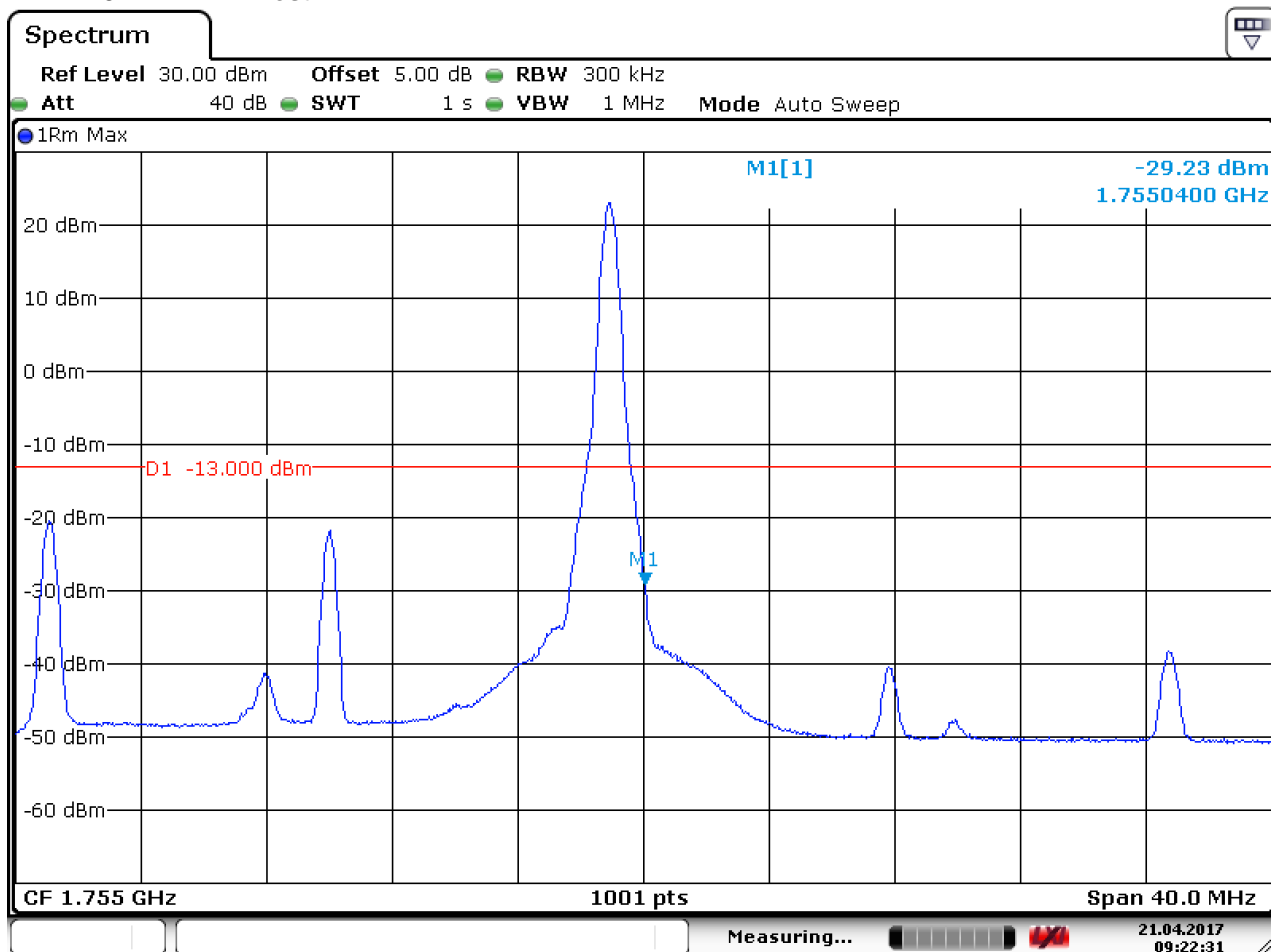


Date: 21.APR.2017 09:19:05



5.1.1.11.2 Test Channel = HCH

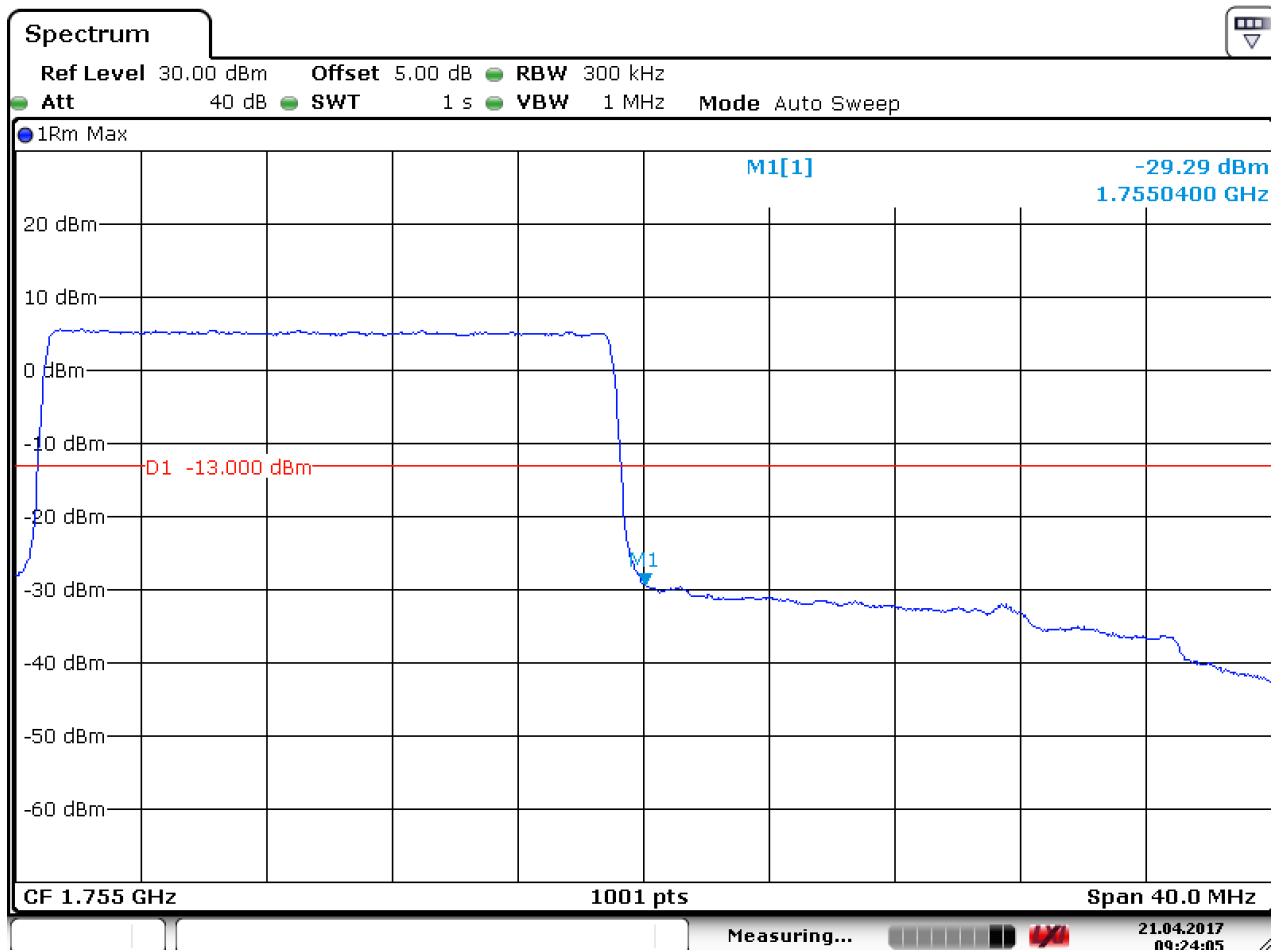
5.1.1.11.2.1 Test RB=1RB



Date: 21.APR.2017 09:22:31



5.1.1.11.2.2 Test RB=100RB

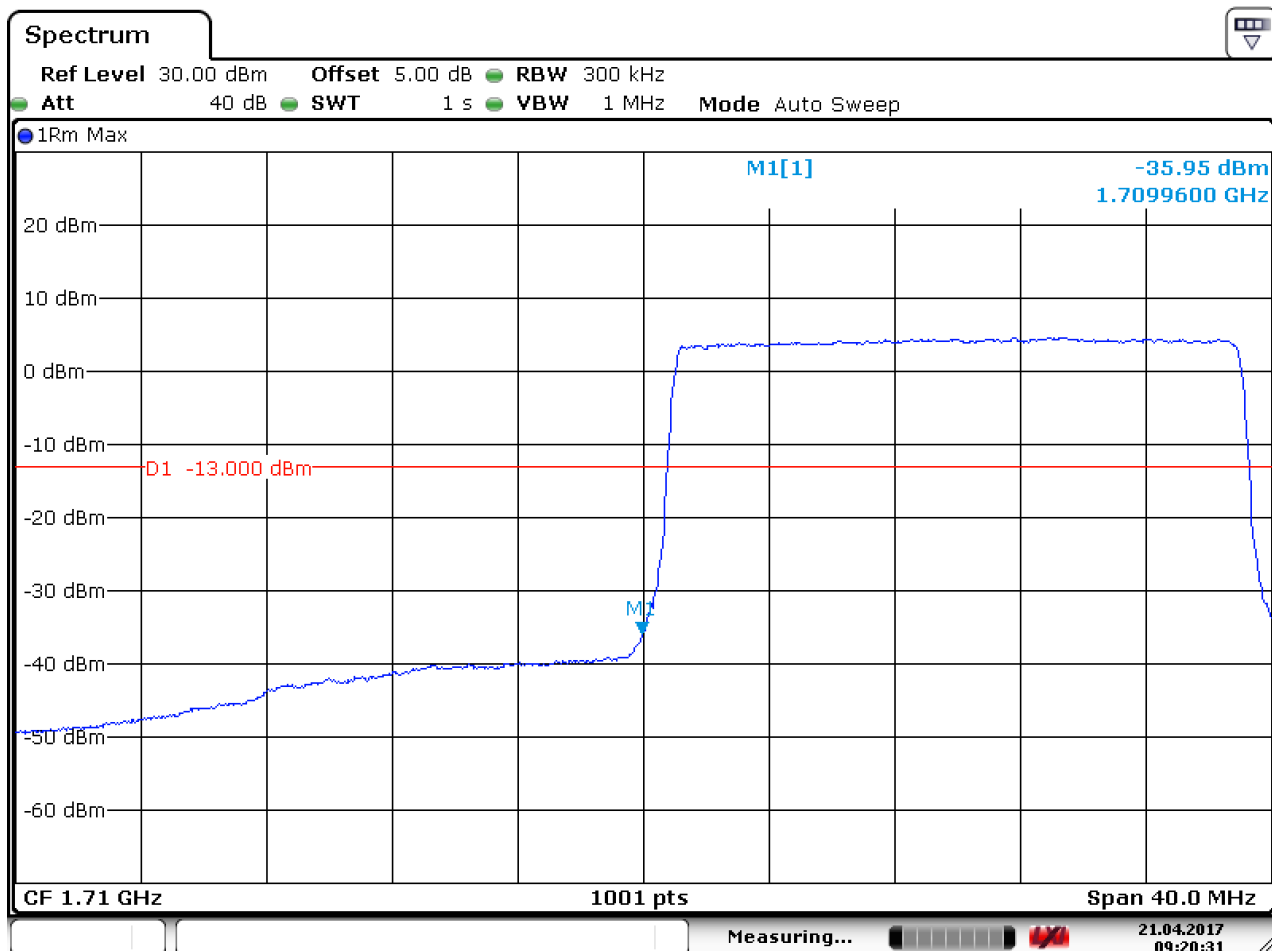


Date: 21.APR.2017 09:24:06

Date: 21.APR.2017 09:21:03



5.1.1.12.1.2 Test RB=100RB

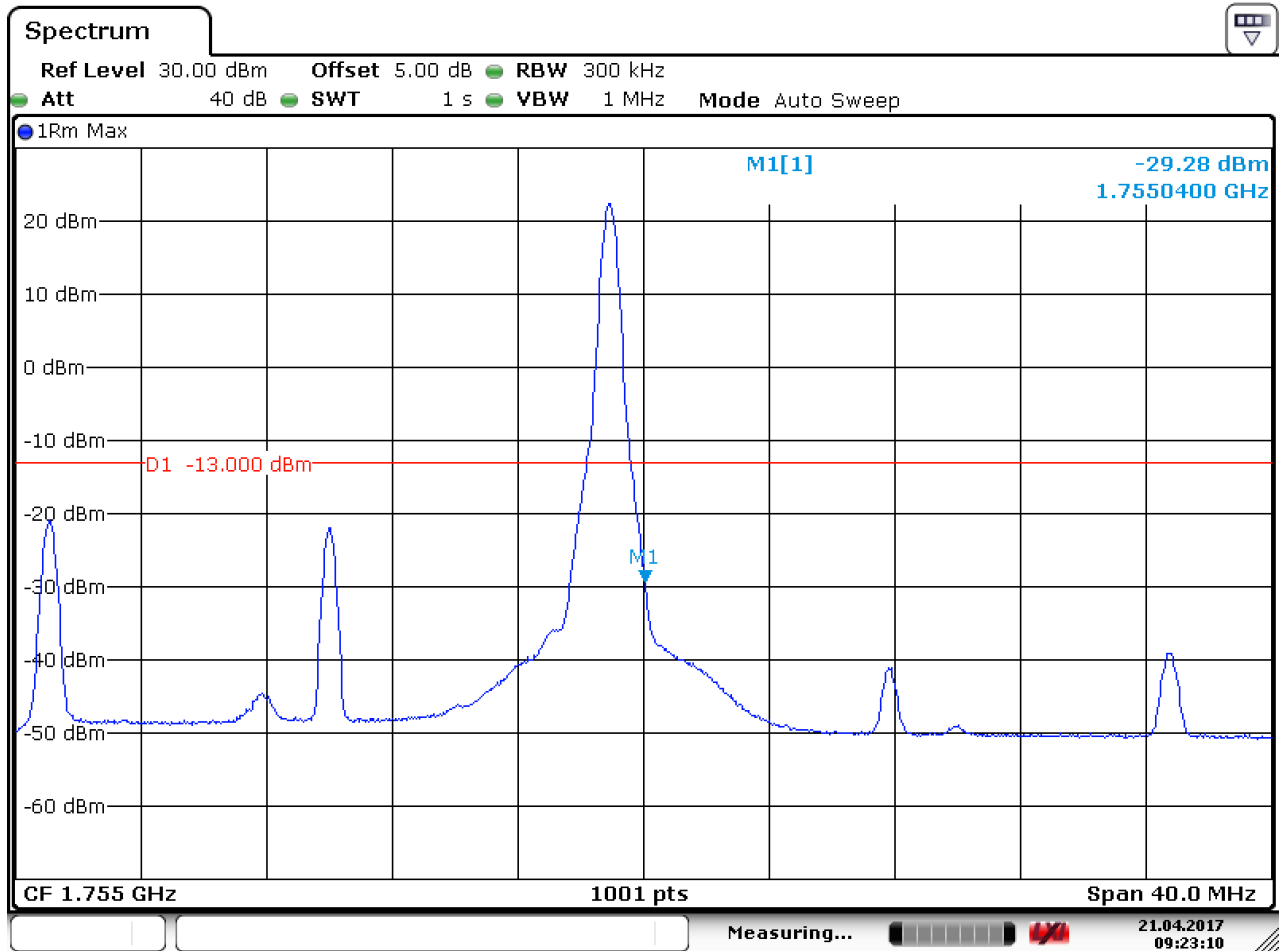


Date: 21.APR.2017 09:20:32



5.1.1.12.2 Test Channel = HCH

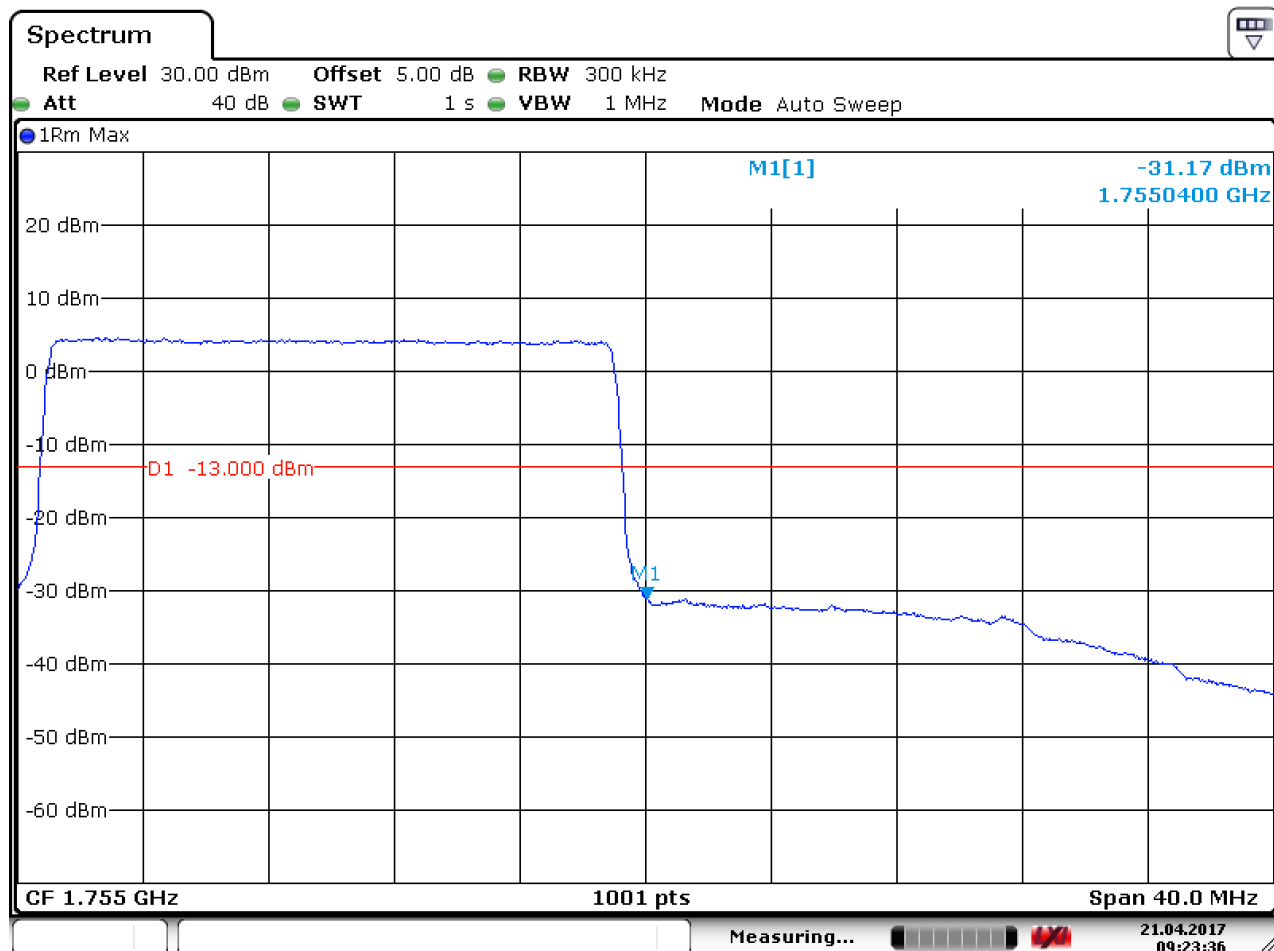
5.1.1.12.2.1 Test RB=1RB



Date: 21.APR.2017 09:23:11



5.1.1.12.2.2 Test RB=100RB



Date: 21.APR.2017 09:23:36



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 = $k \cdot (\text{Span} / \text{RBW})$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

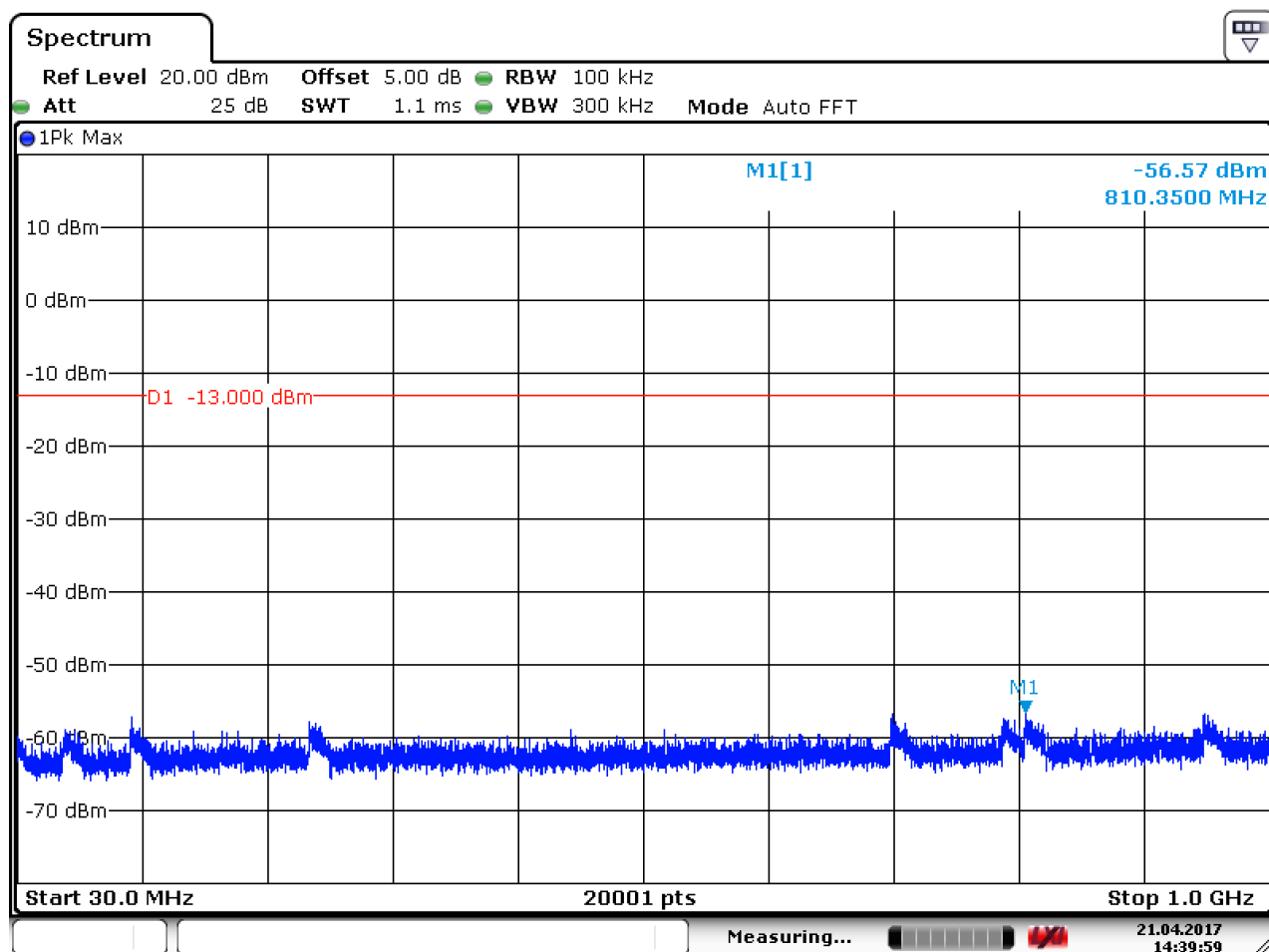
Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE band4

6.1.1.1 Test Mode = LTE / TM1 1.4MHz RB1#0

6.1.1.1.1 Test Channel = LCH

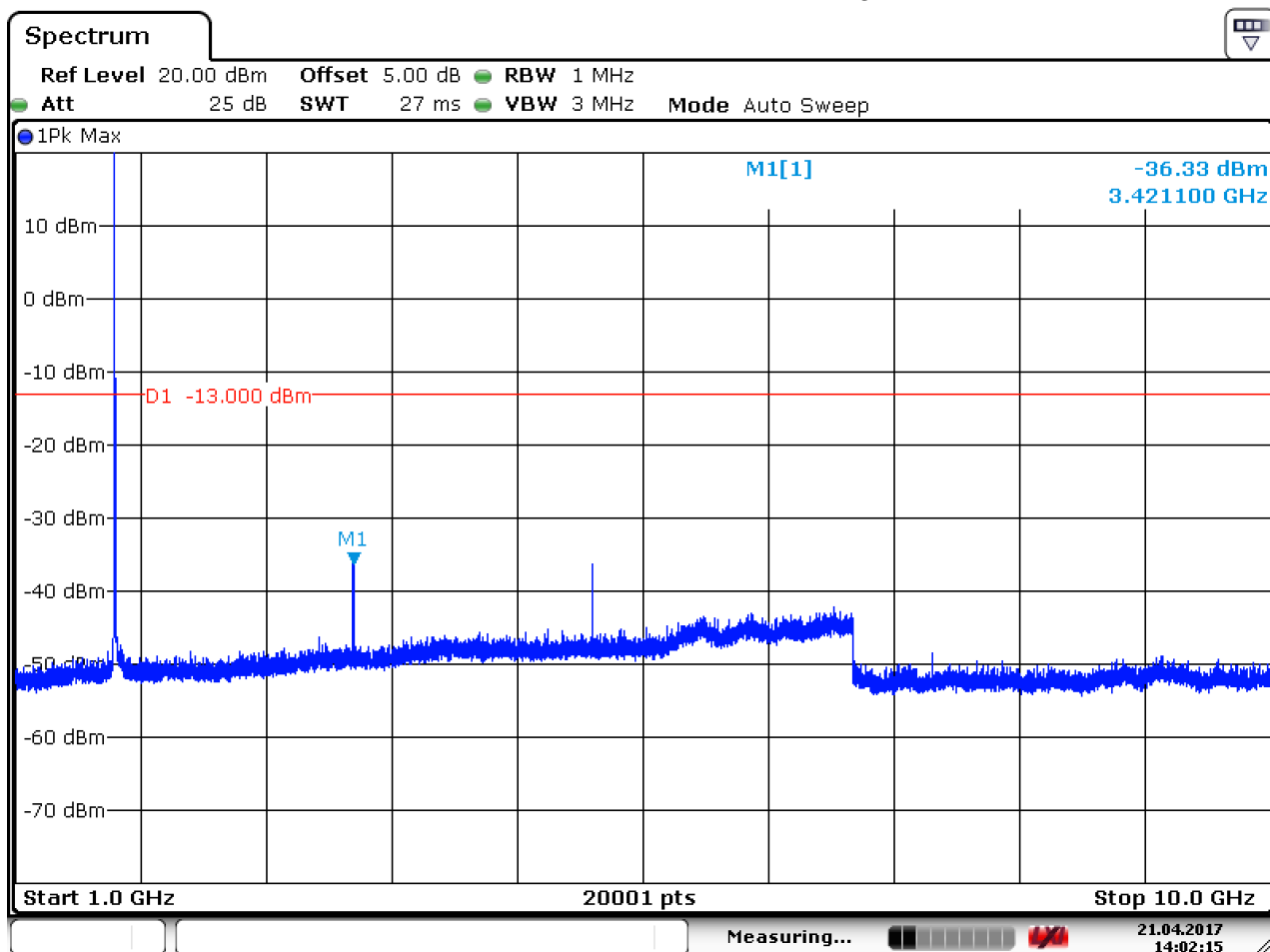


Date: 21.APR.2017 14:39:59

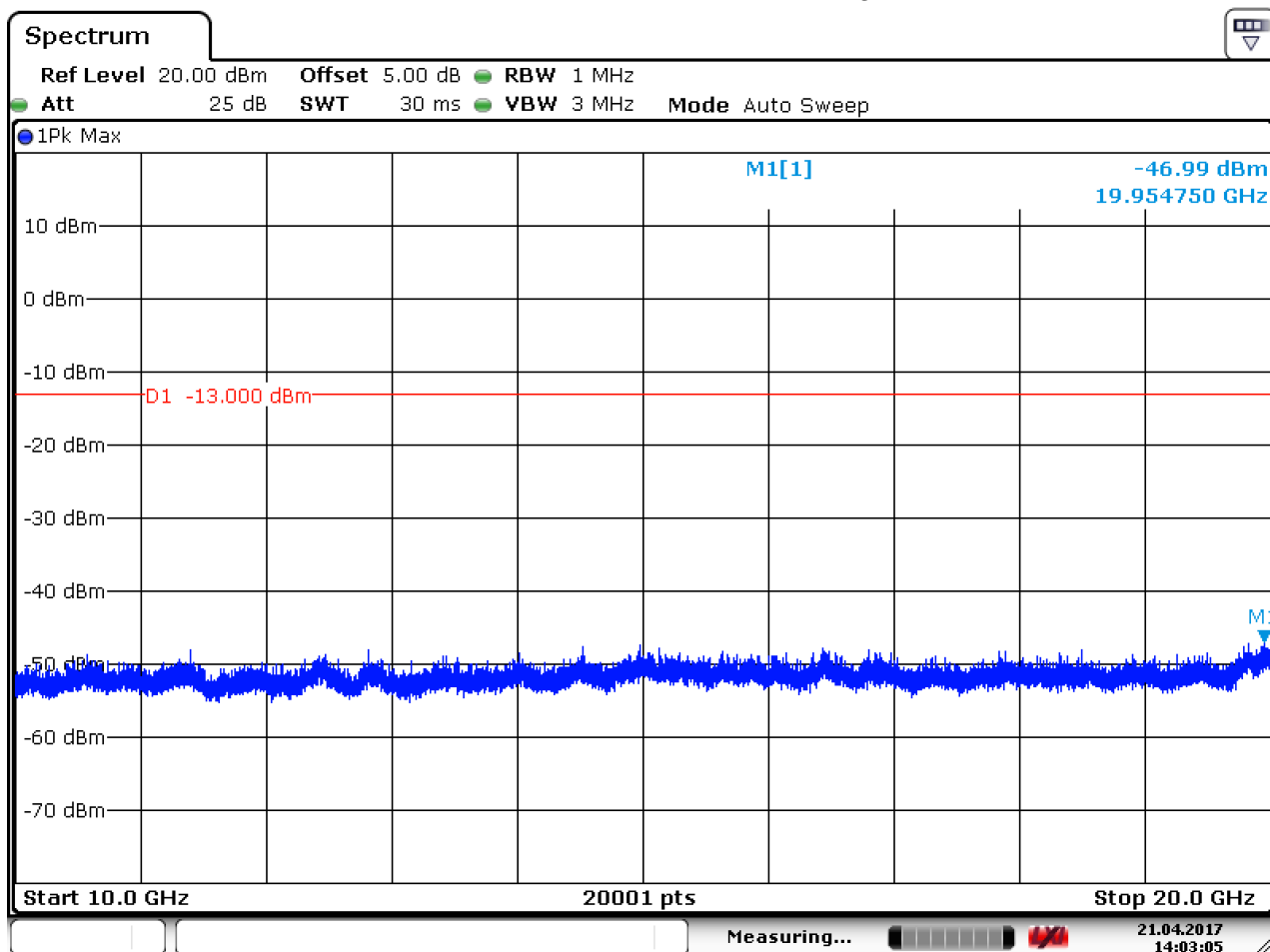


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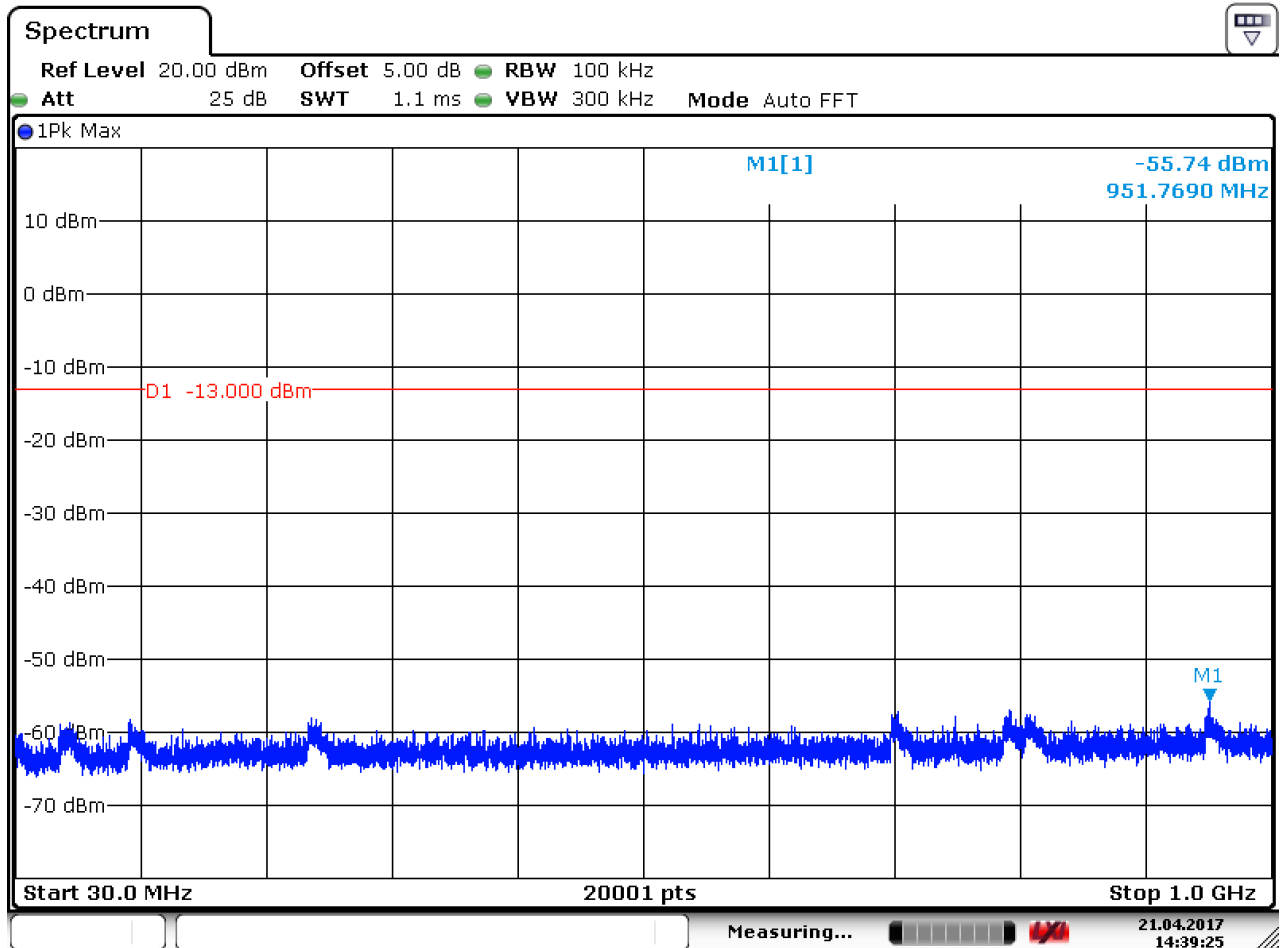
Date: 21.APR.2017 14:02:15



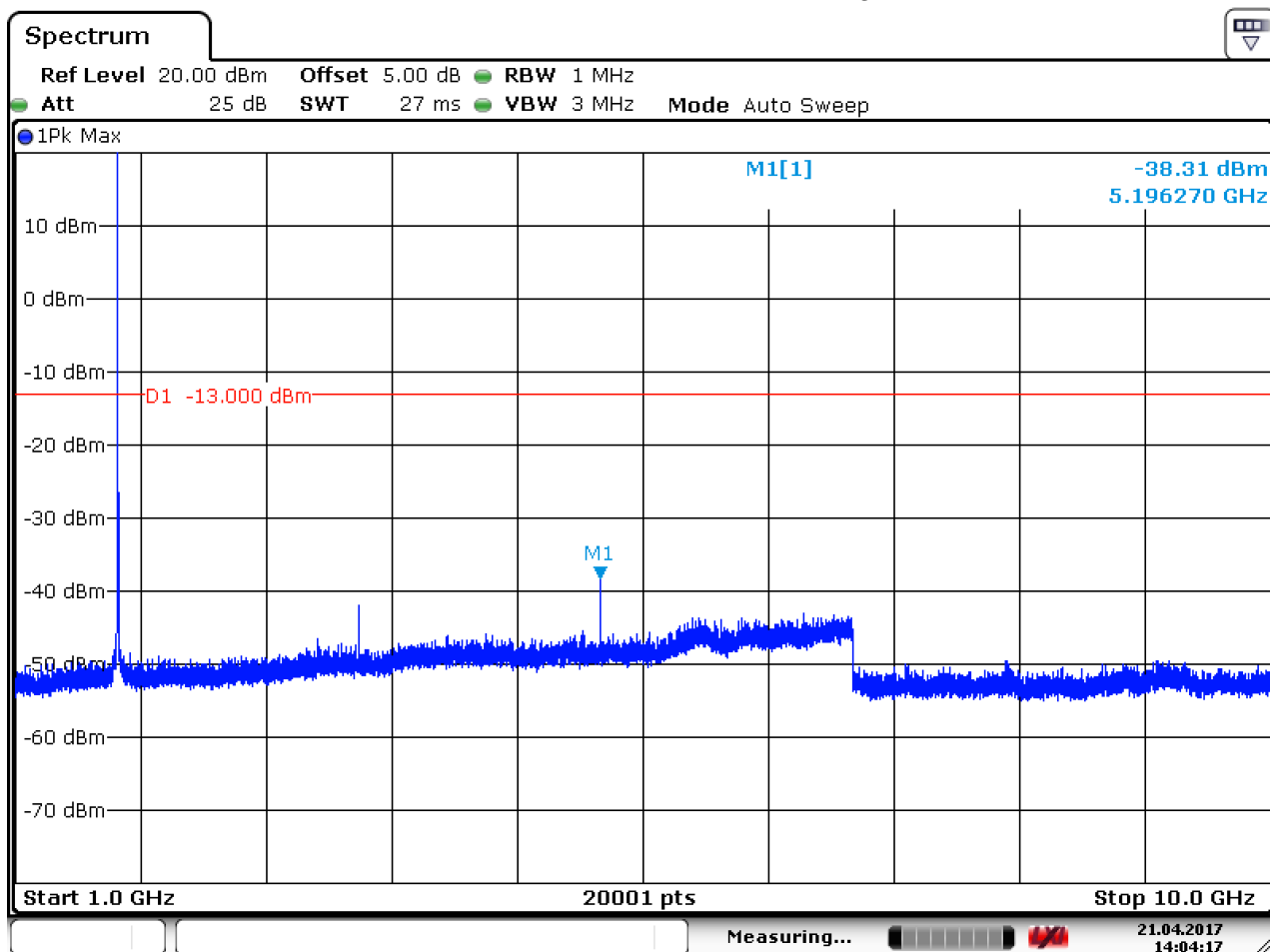
Date: 21.APR.2017 14:03:06



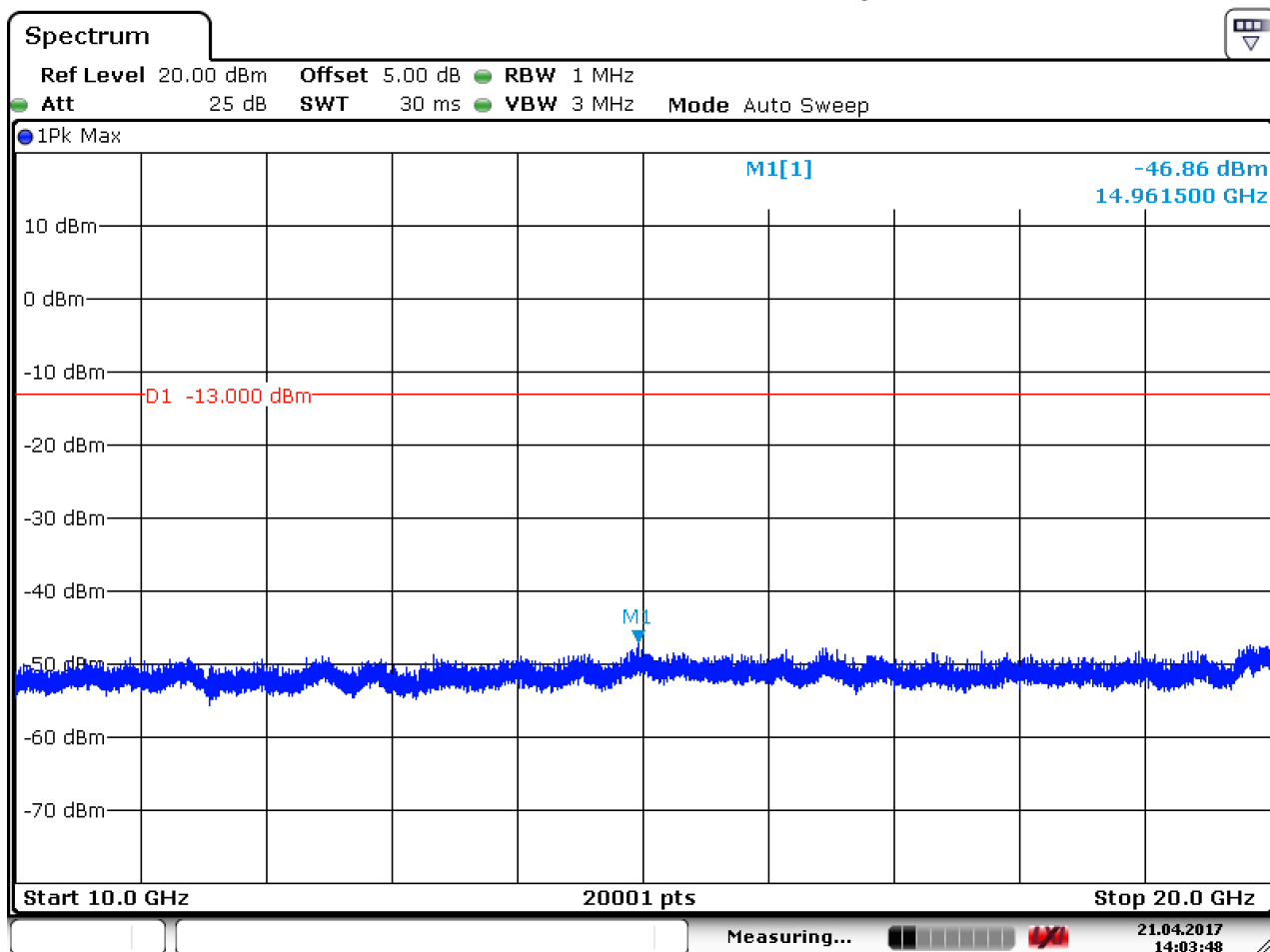
6.1.1.1.2 Test Channel = MCH



Date: 21.APR.2017 14:39:26



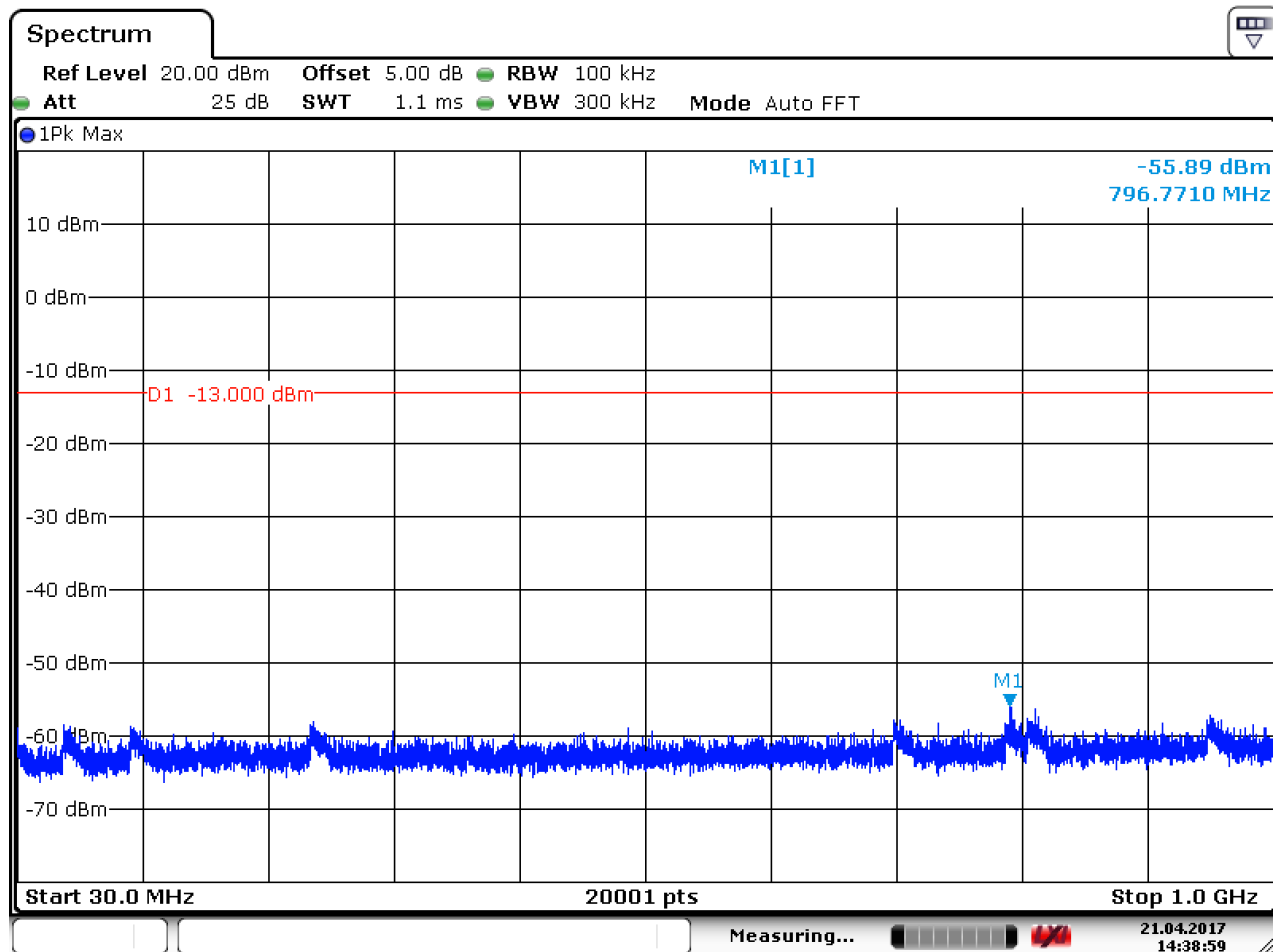
Date: 21.APR.2017 14:04:17



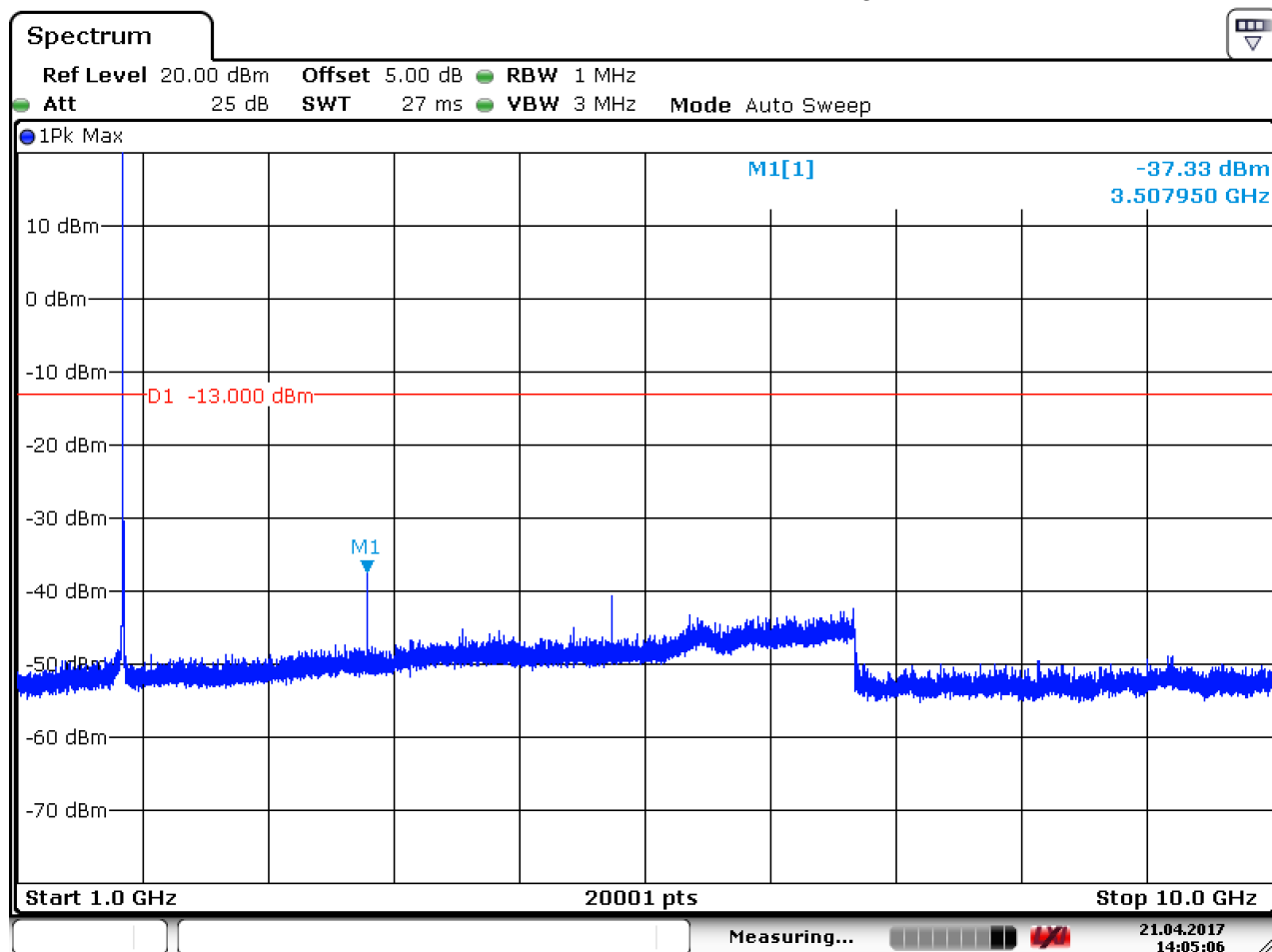
Date: 21.APR.2017 14:03:48



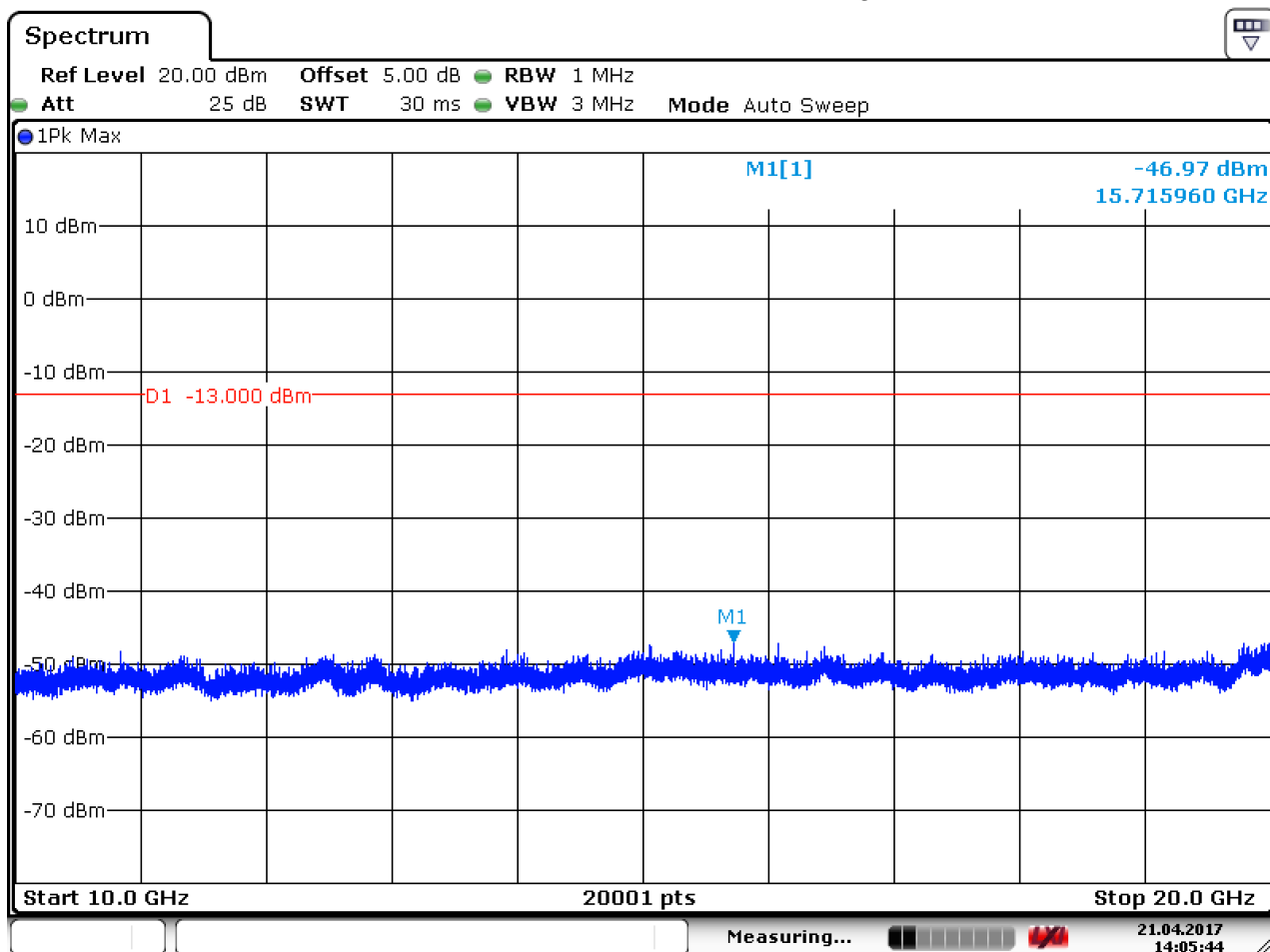
6.1.1.1.3 Test Channel = HCH



Date: 21.APR.2017 14:38:59



Date: 21.APR.2017 14:05:06

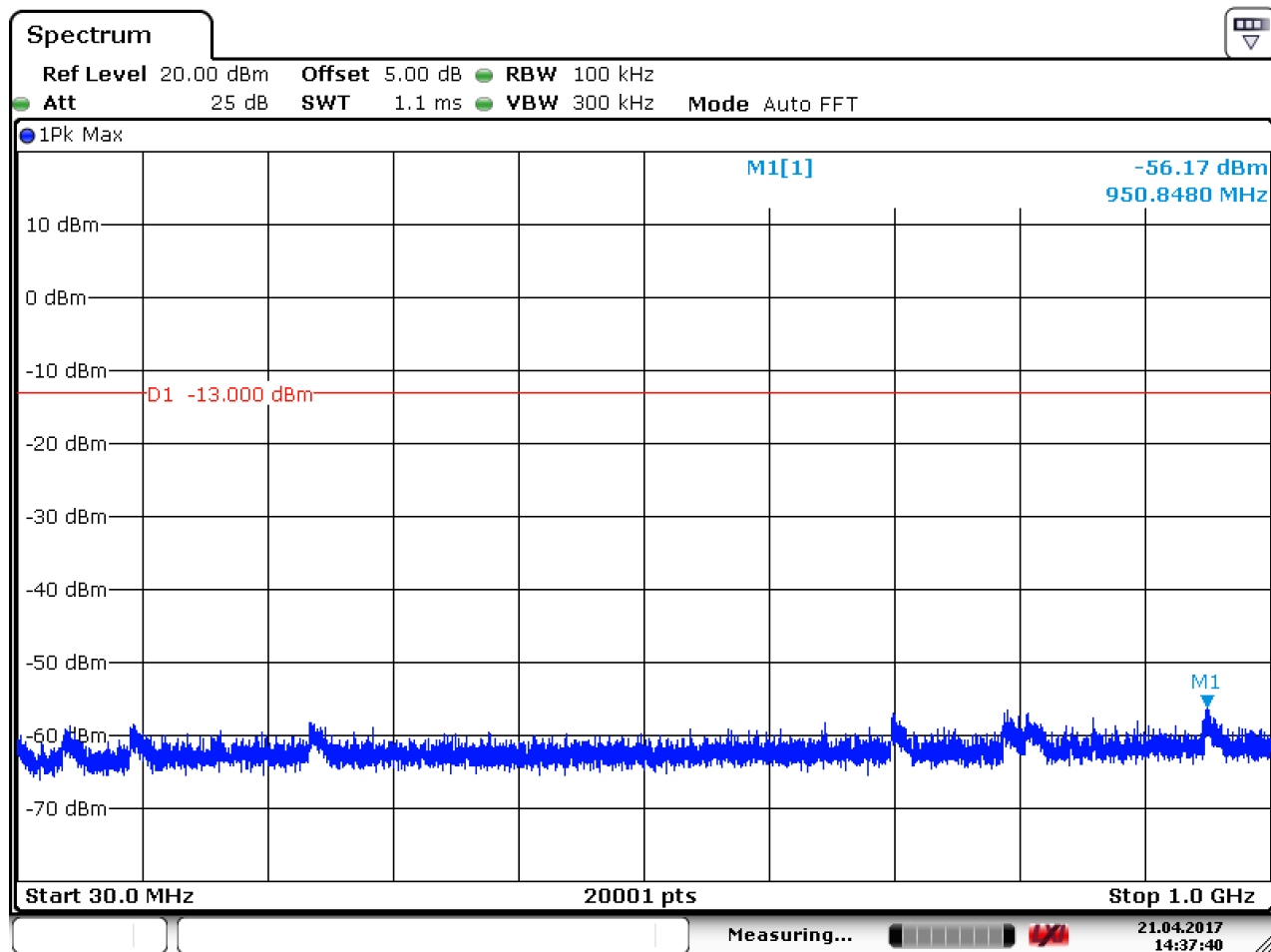


Date: 21.APR.2017 14:05:44



6.1.1.2 Test Mode = LTE / TM1 3MHz RB1#0

6.1.1.2.1 Test Channel = LCH

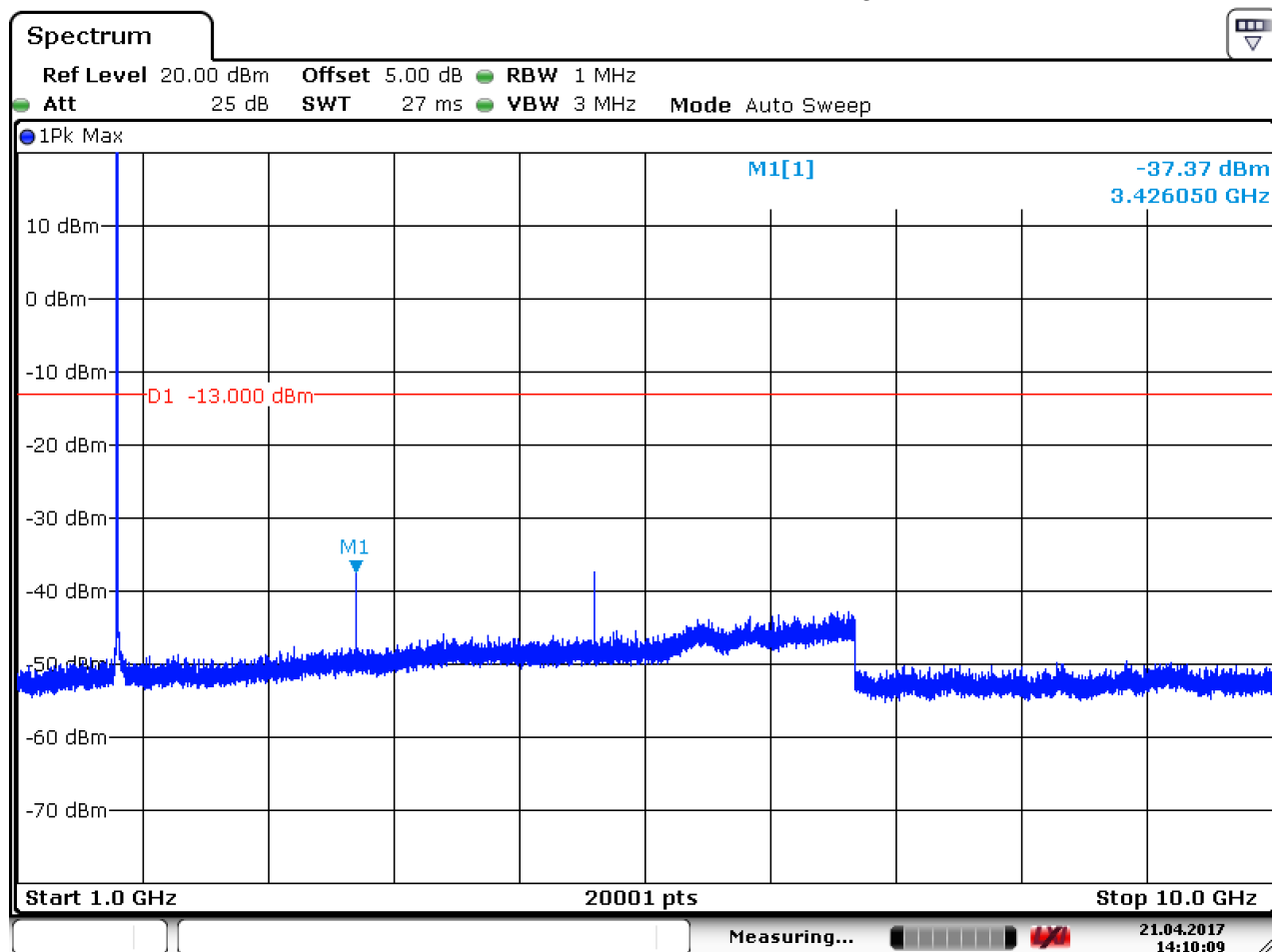


Date: 21.APR.2017 14:37:40



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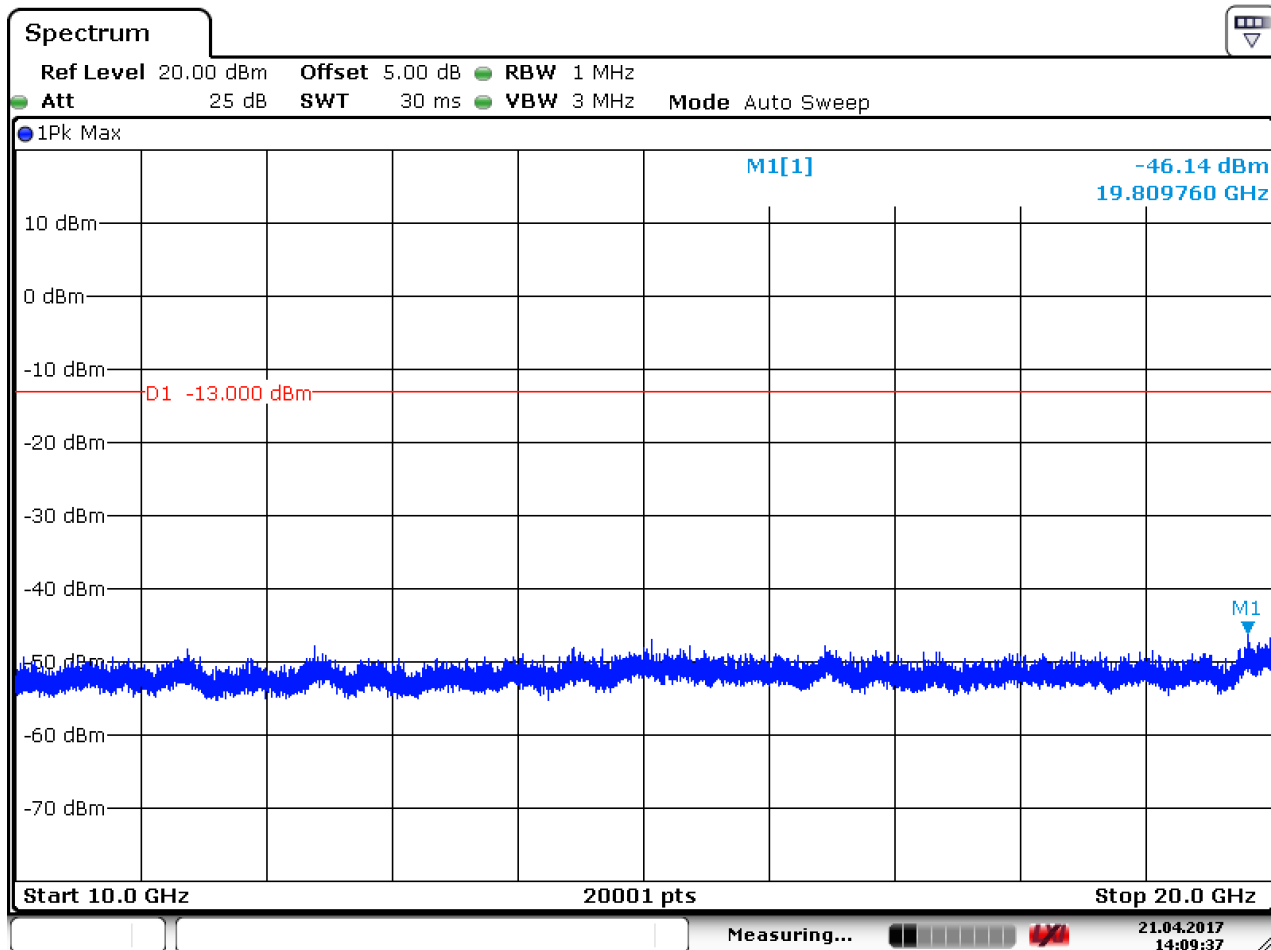


Date: 21.APR.2017 14:10:10



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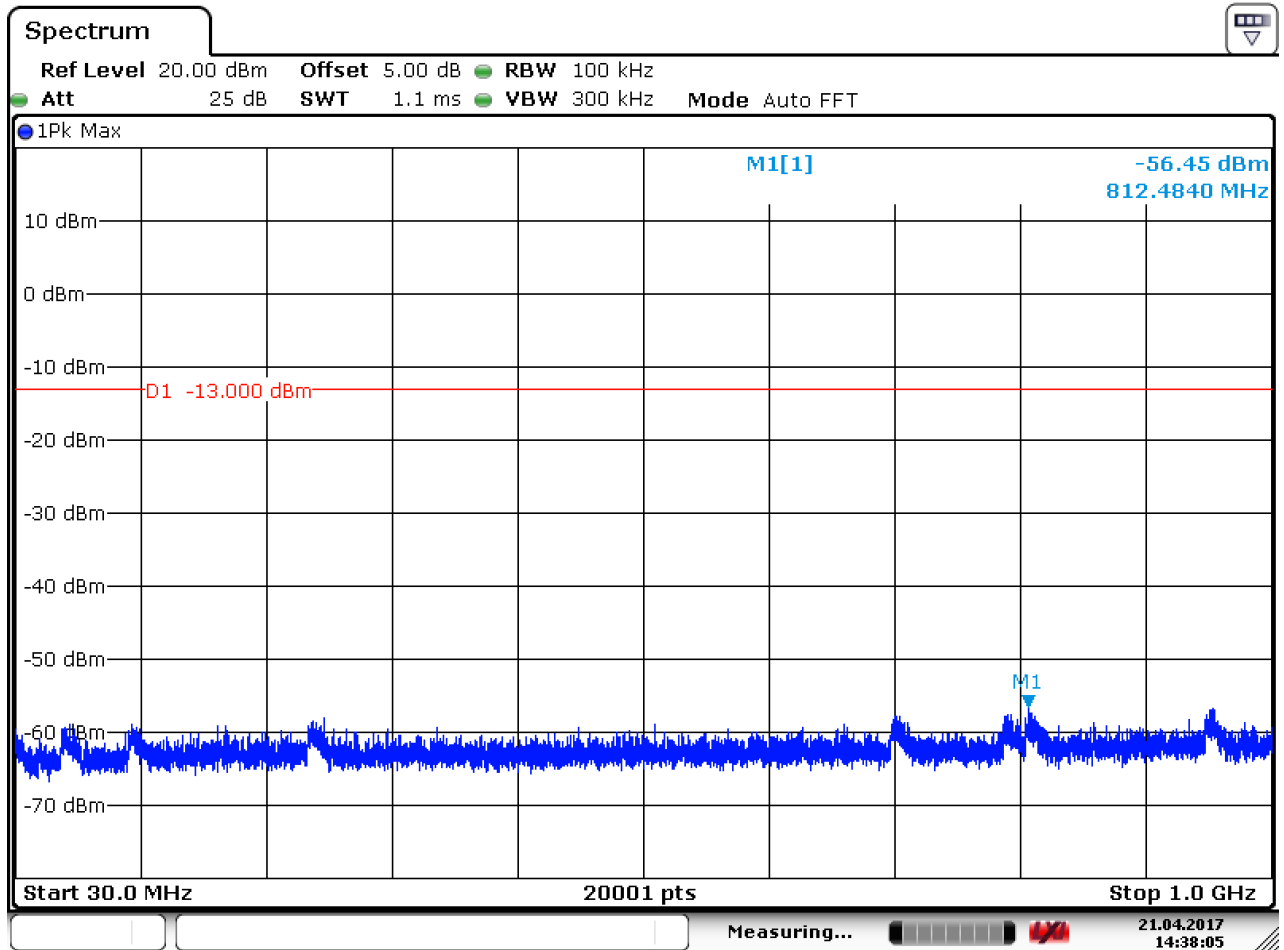
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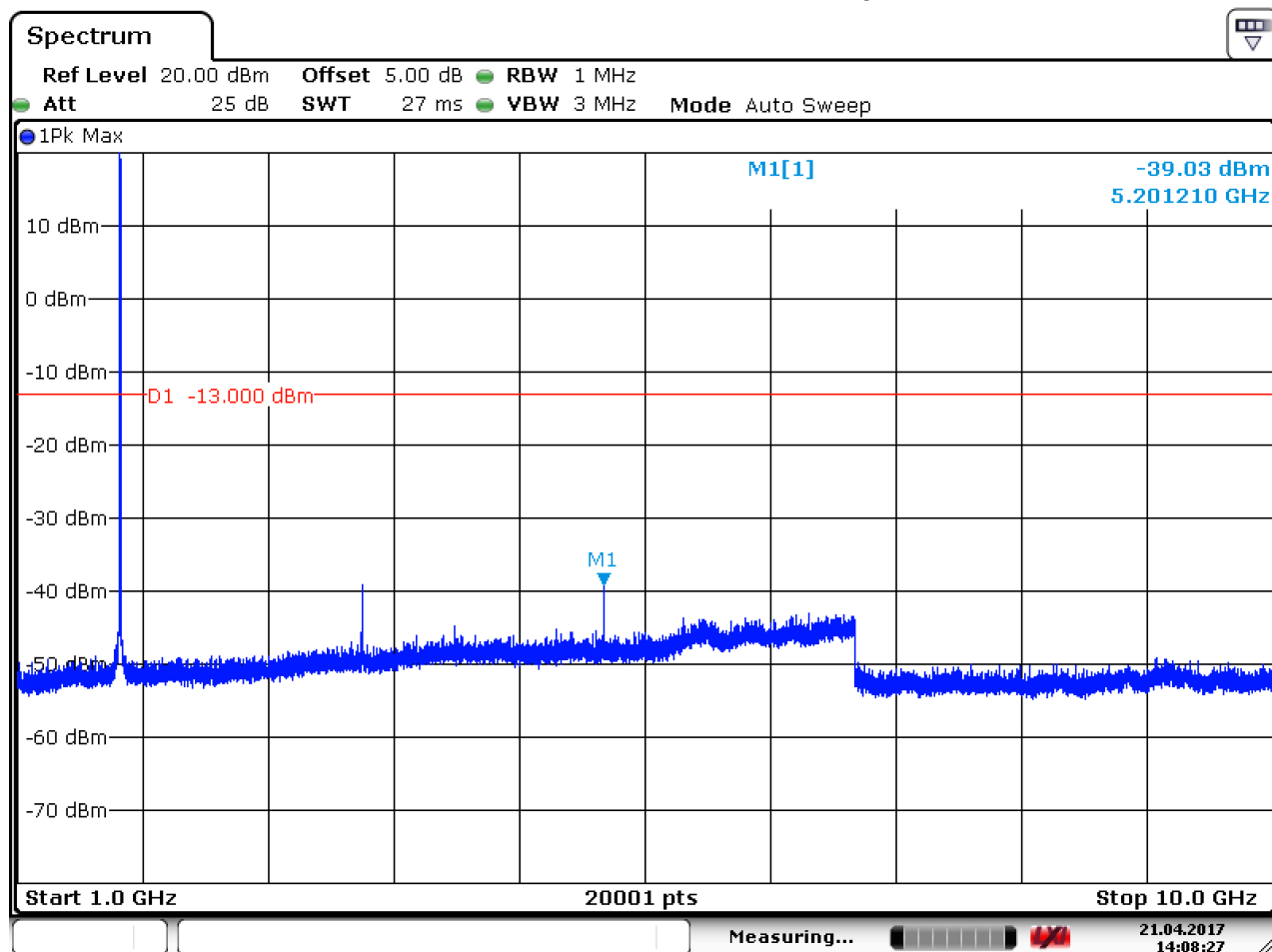
Date: 21.APR.2017 14:09:37



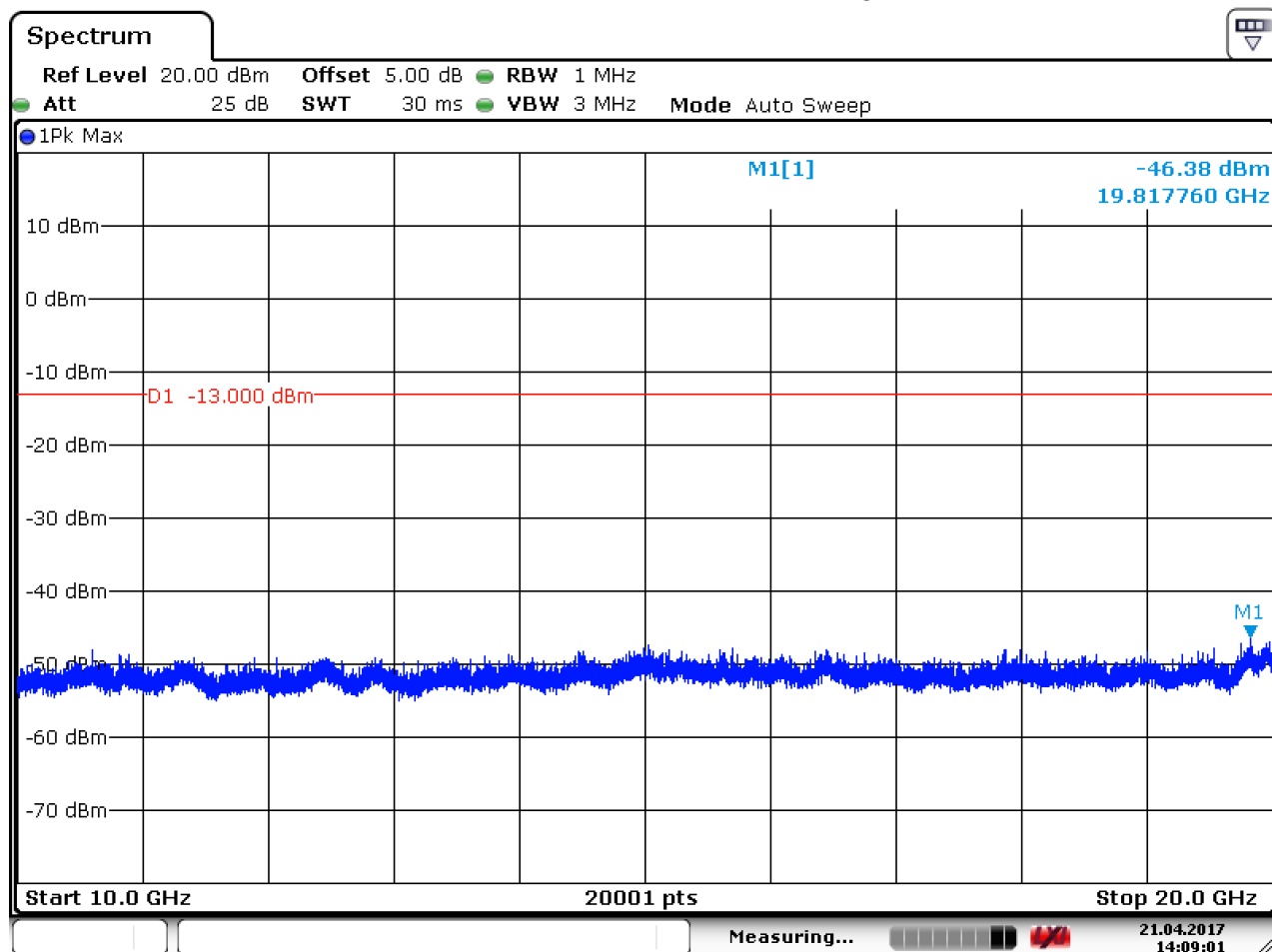
6.1.1.2.2 Test Channel = MCH



Date: 21.APR.2017 14:38:05



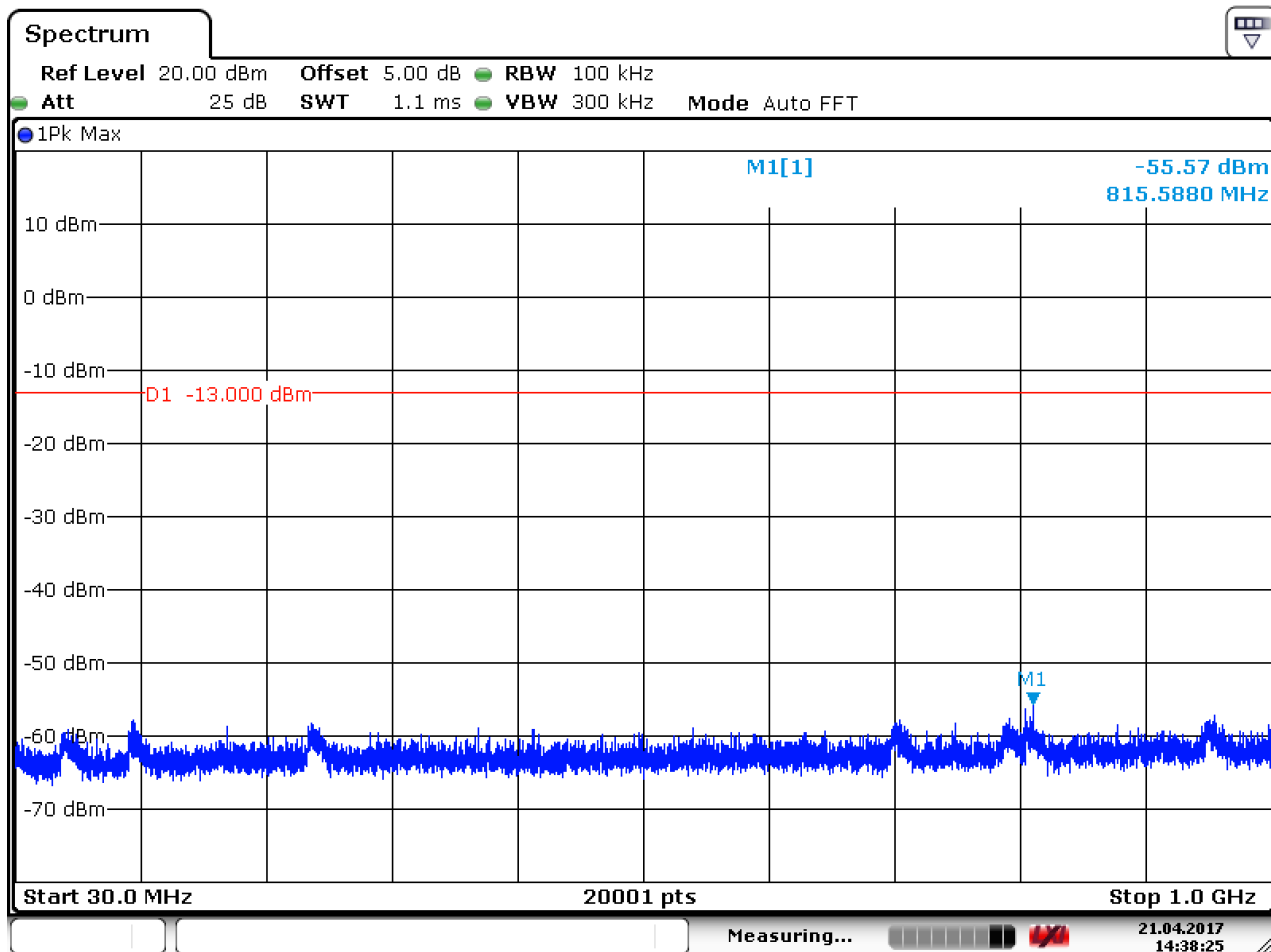
Date: 21.APR.2017 14:08:28



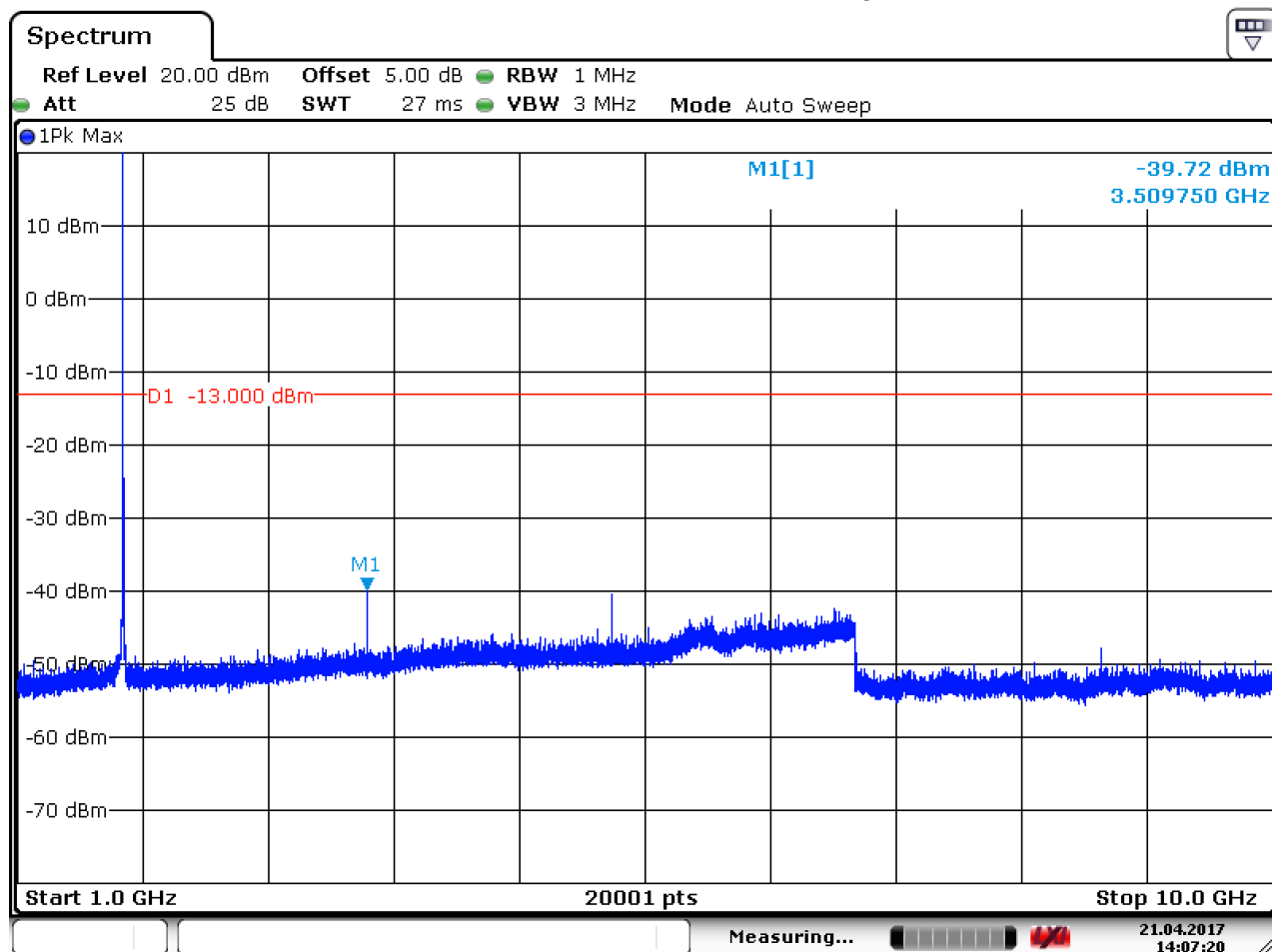
Date: 21.APR.2017 14:09:02



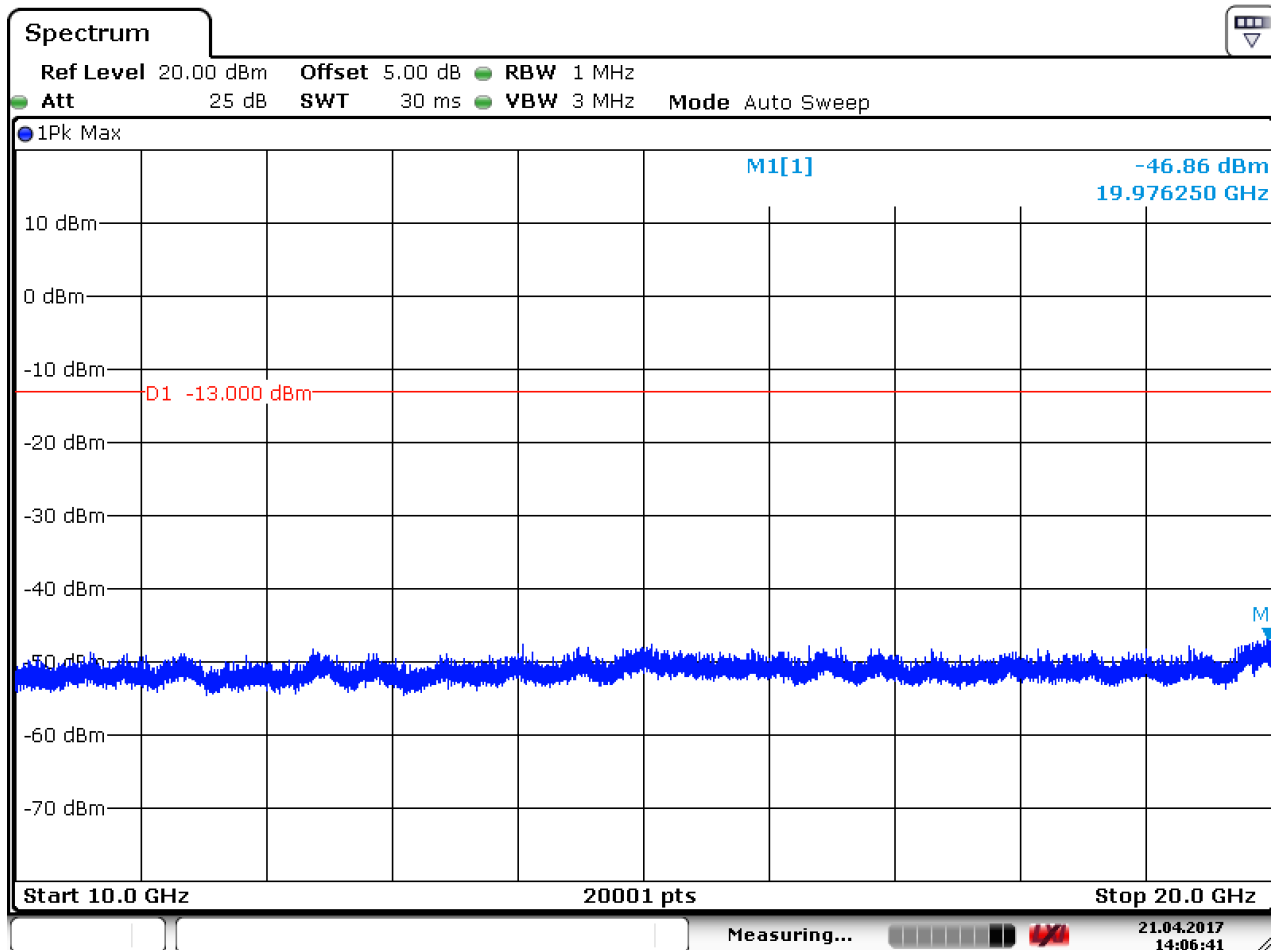
6.1.1.2.3 Test Channel = HCH



Date: 21.APR.2017 14:38:25



Date: 21.APR.2017 14:07:20

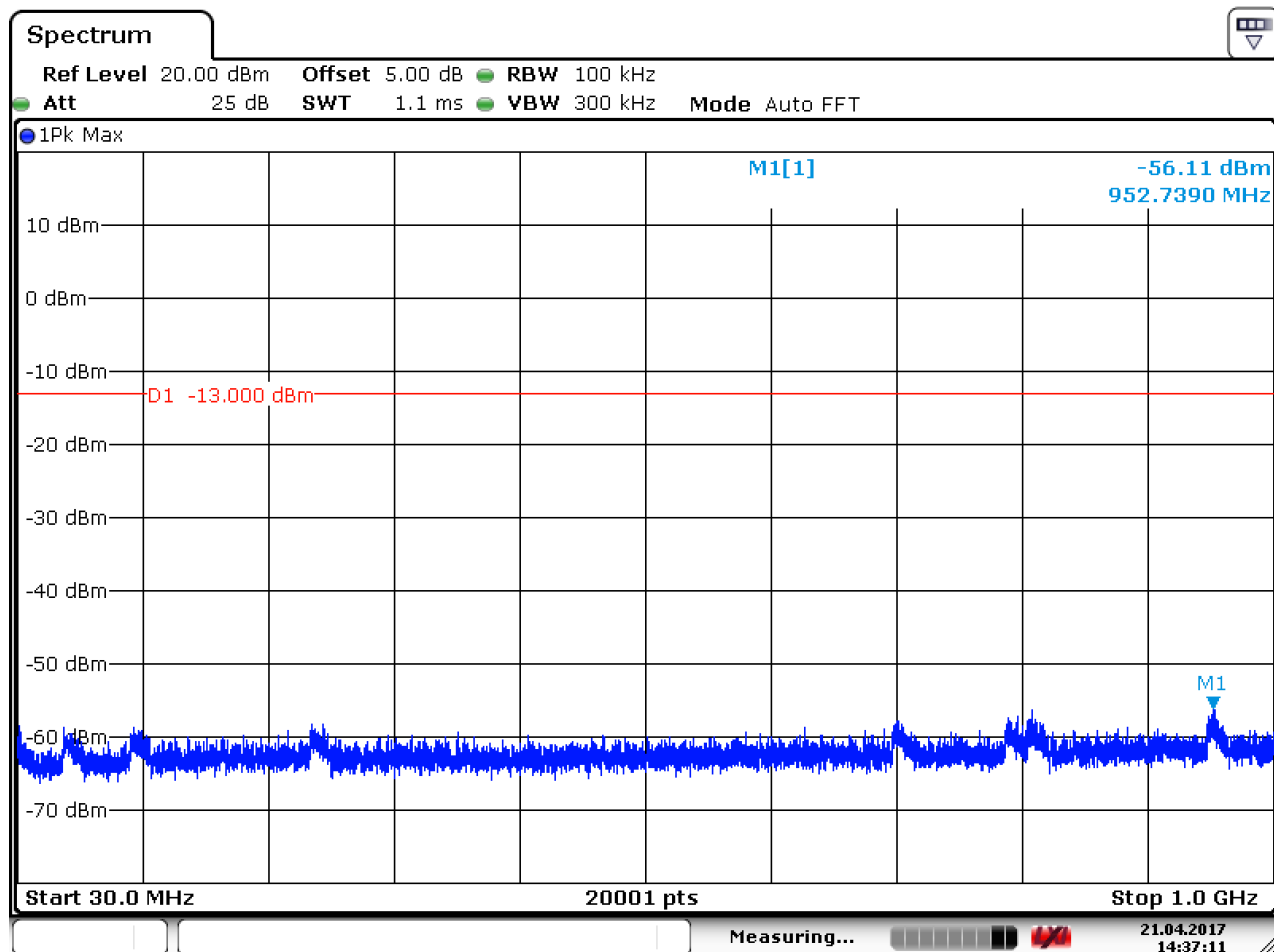


Date: 21.APR.2017 14:06:42



6.1.1.3 Test Mode = LTE / TM1 5MHz RB1#0

6.1.1.3.1 Test Channel = LCH

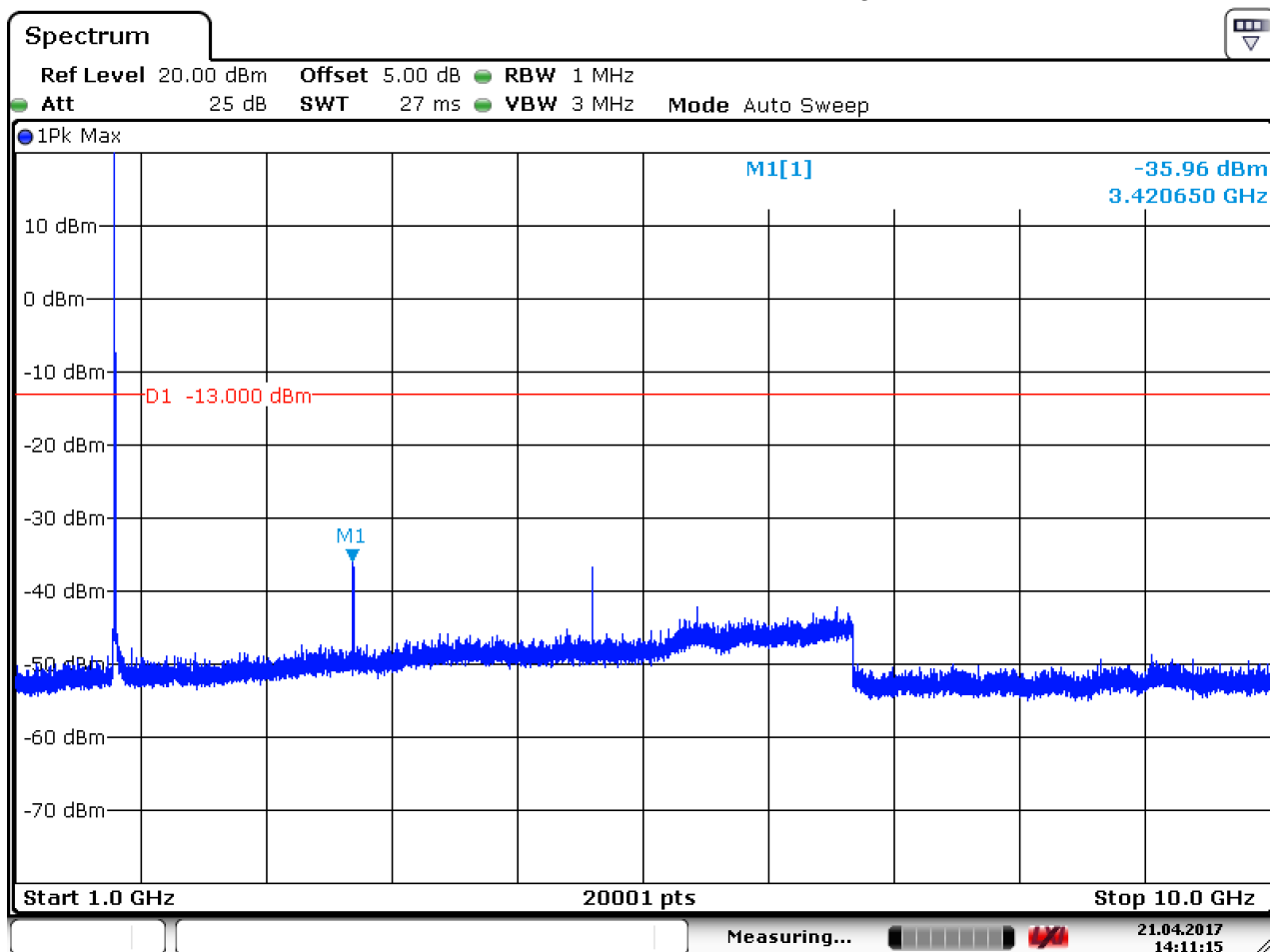


Date: 21.APR.2017 14:37:11

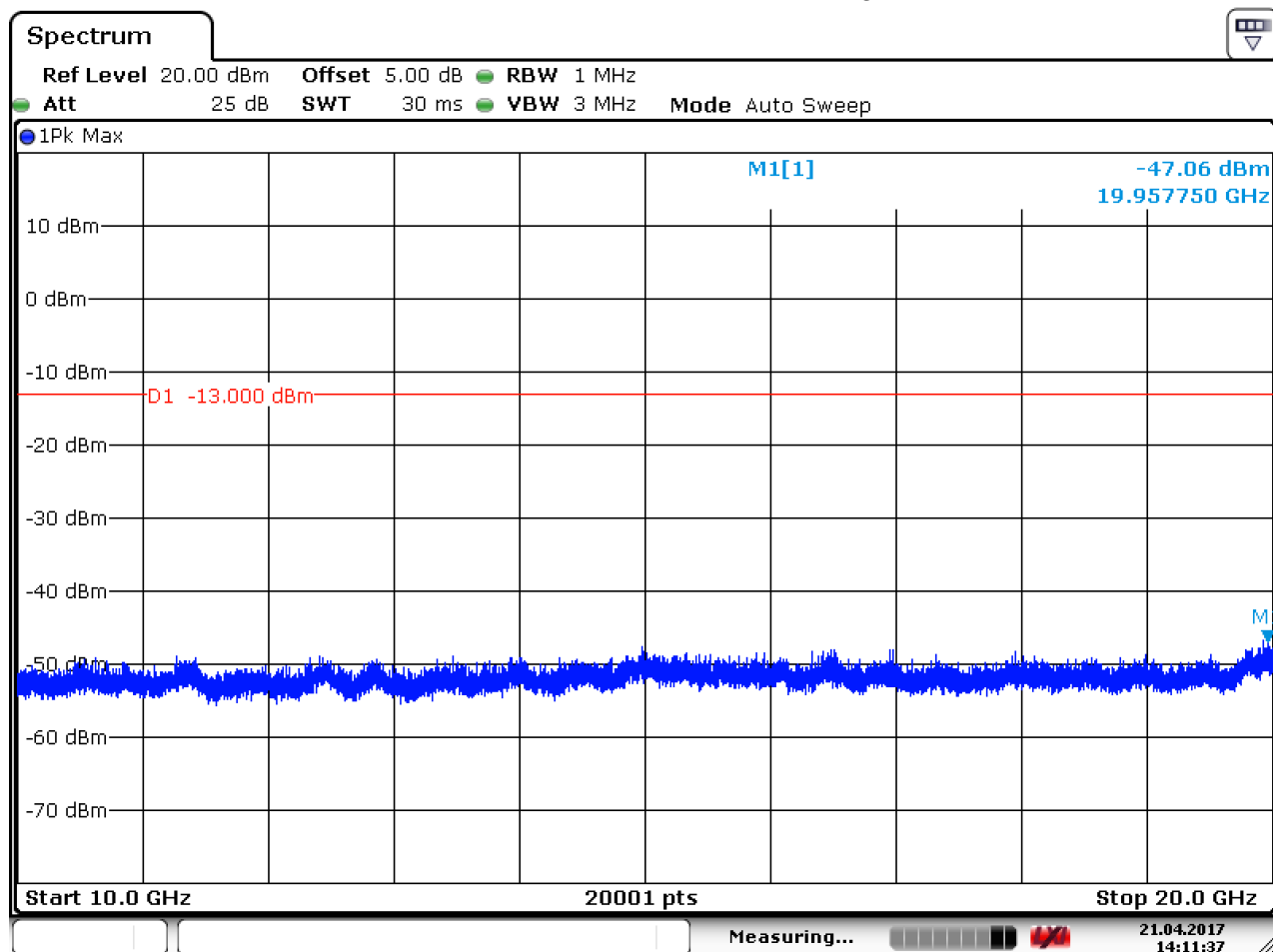


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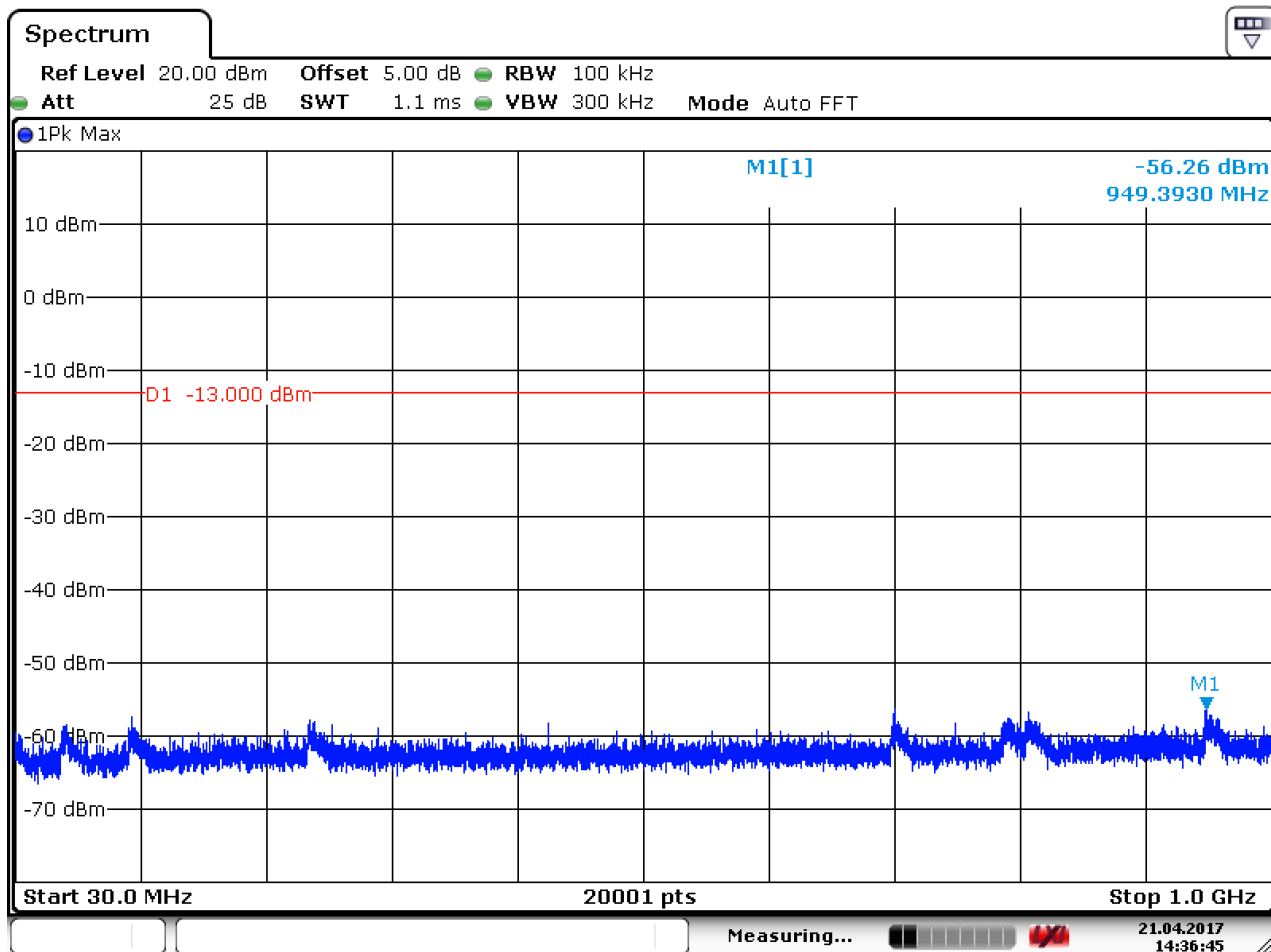
Date: 21.APR.2017 14:11:16



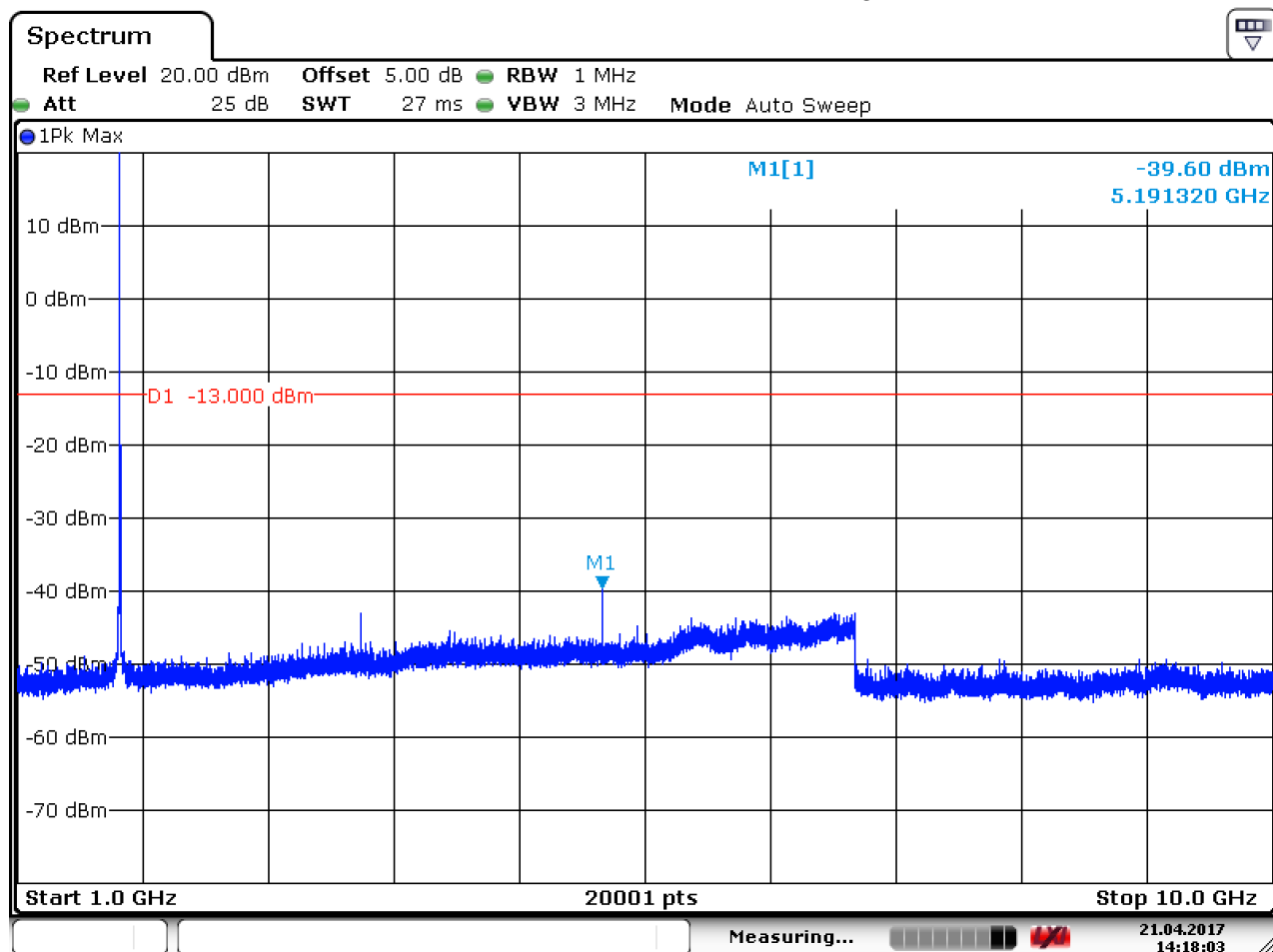
Date: 21.APR.2017 14:11:38



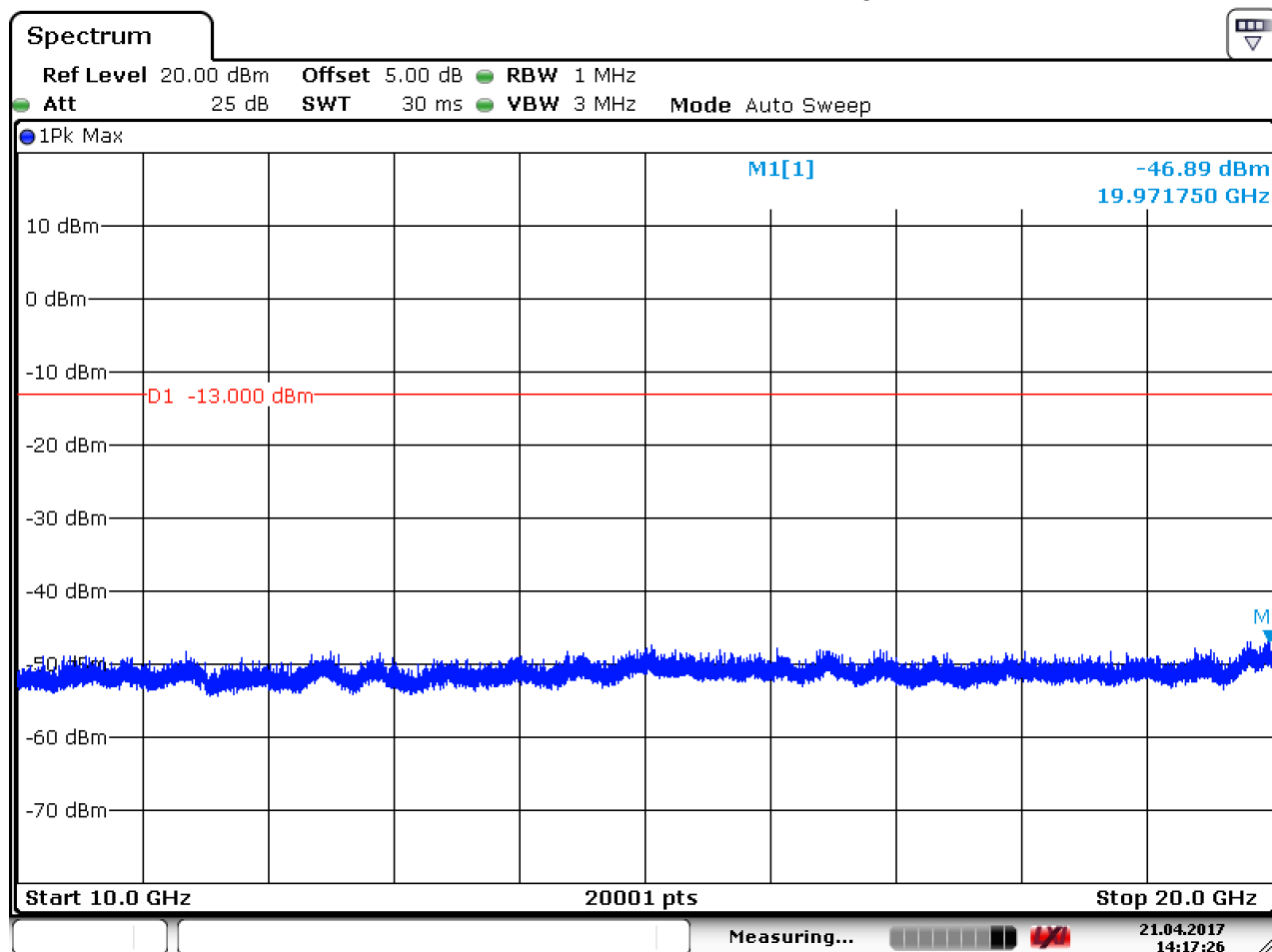
6.1.1.3.2 Test Channel = MCH



Date: 21.APR.2017 14:36:45



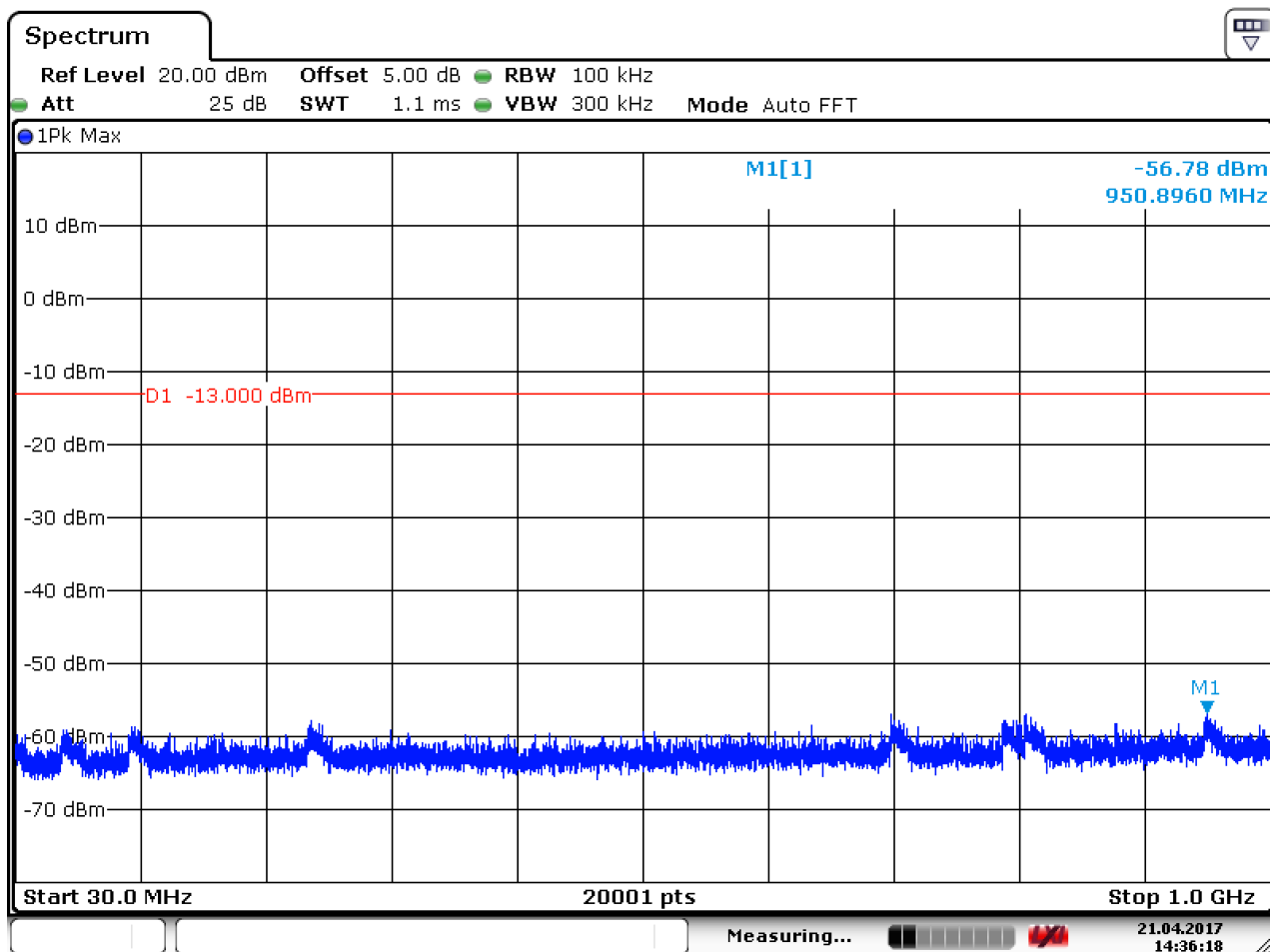
Date: 21.APR.2017 14:18:03



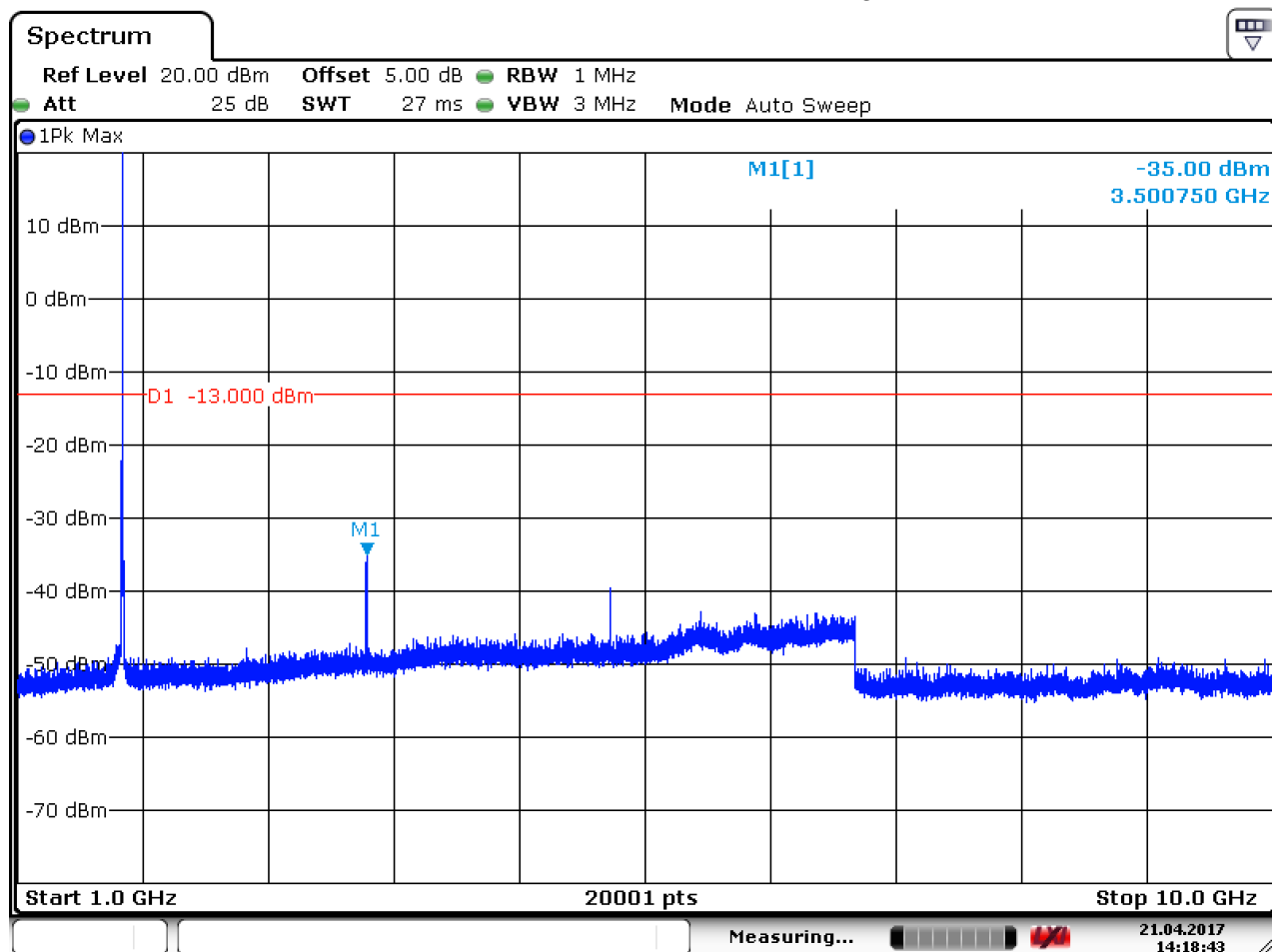
Date: 21.APR.2017 14:17:26



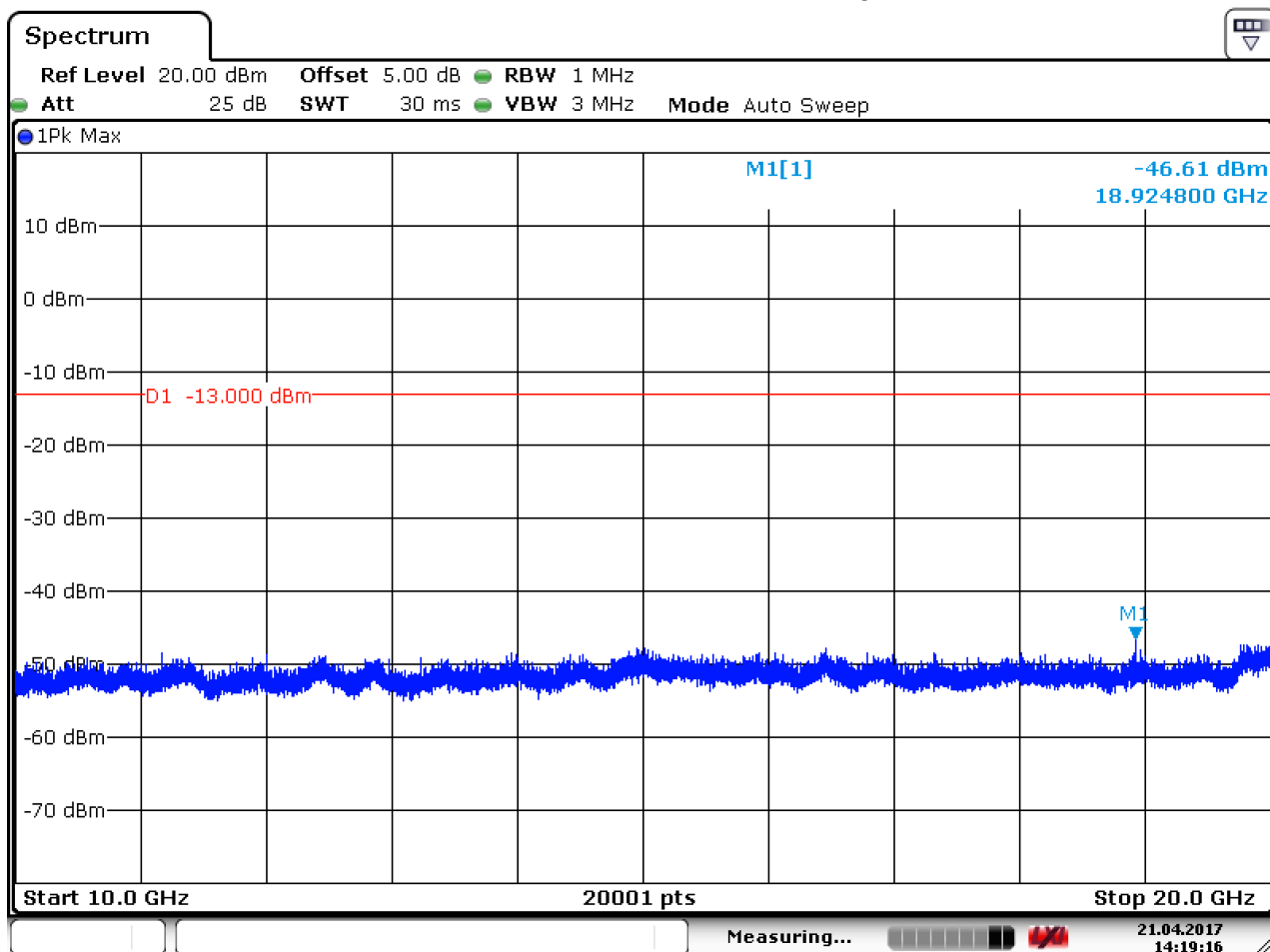
6.1.1.3.3 Test Channel = HCH



Date: 21.APR.2017 14:36:18



Date: 21.APR.2017 14:18:44

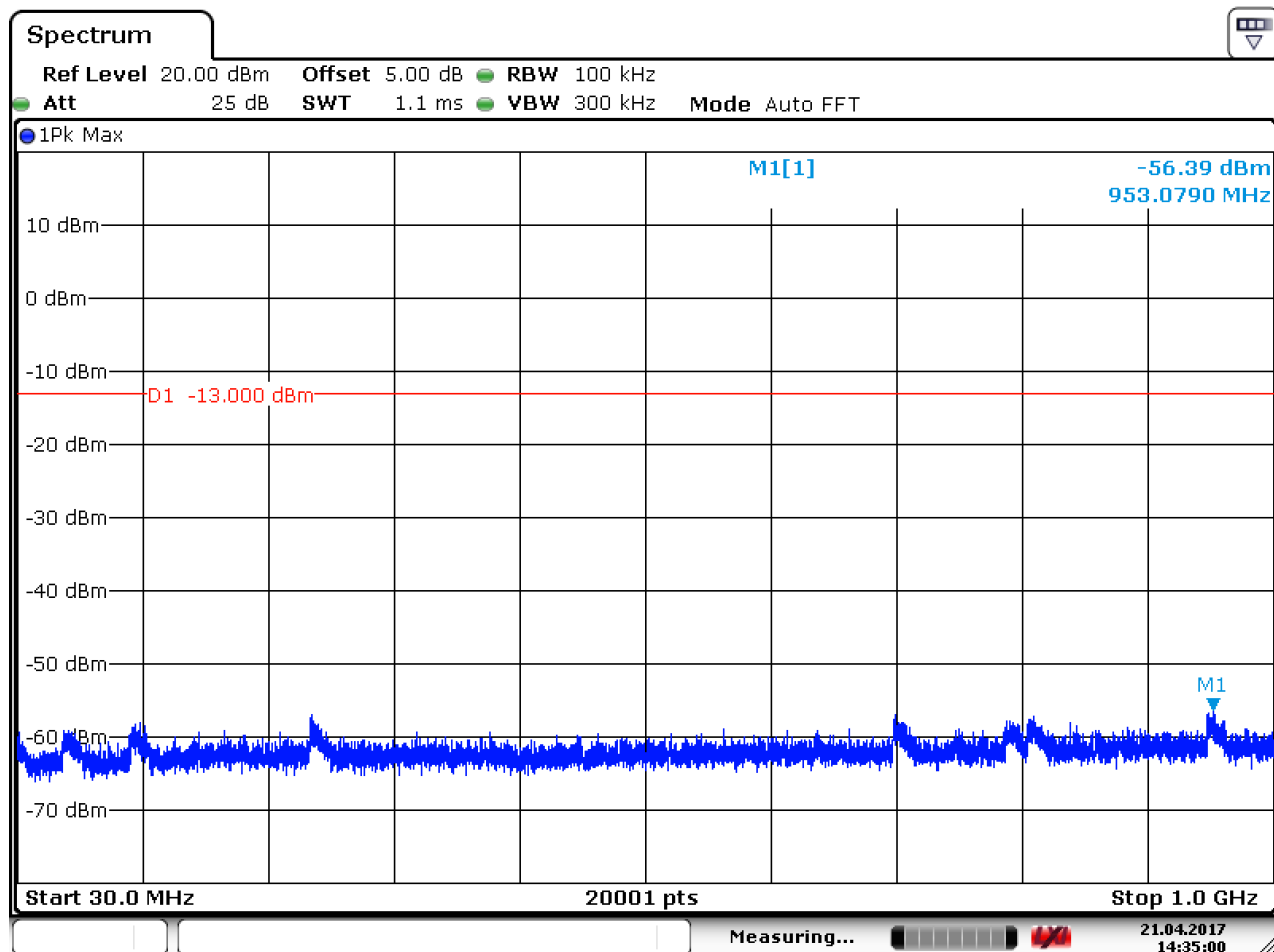


Date: 21.APR.2017 14:19:16

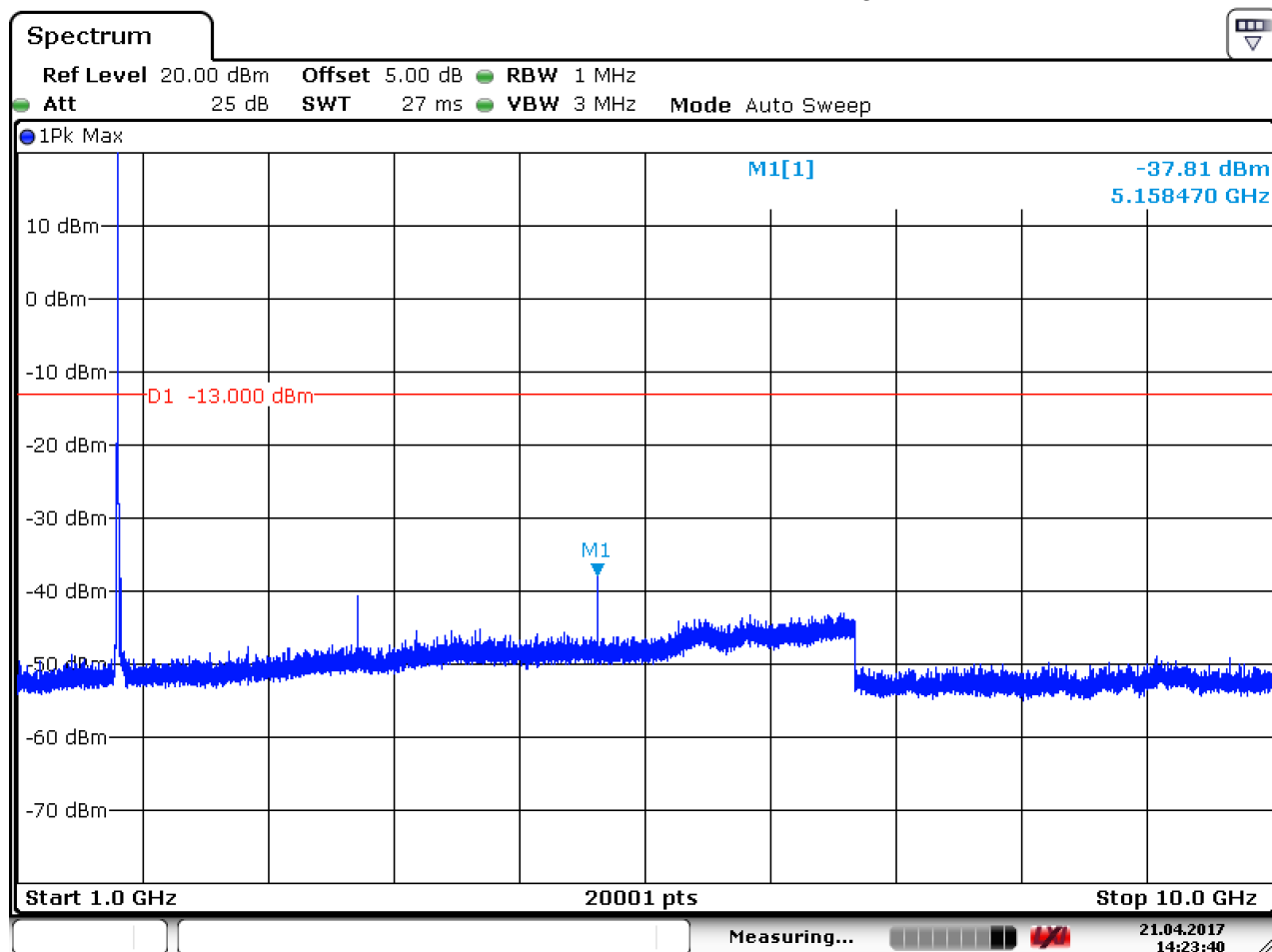


6.1.1.4 Test Mode = LTE / TM1 10MHz RB1#0

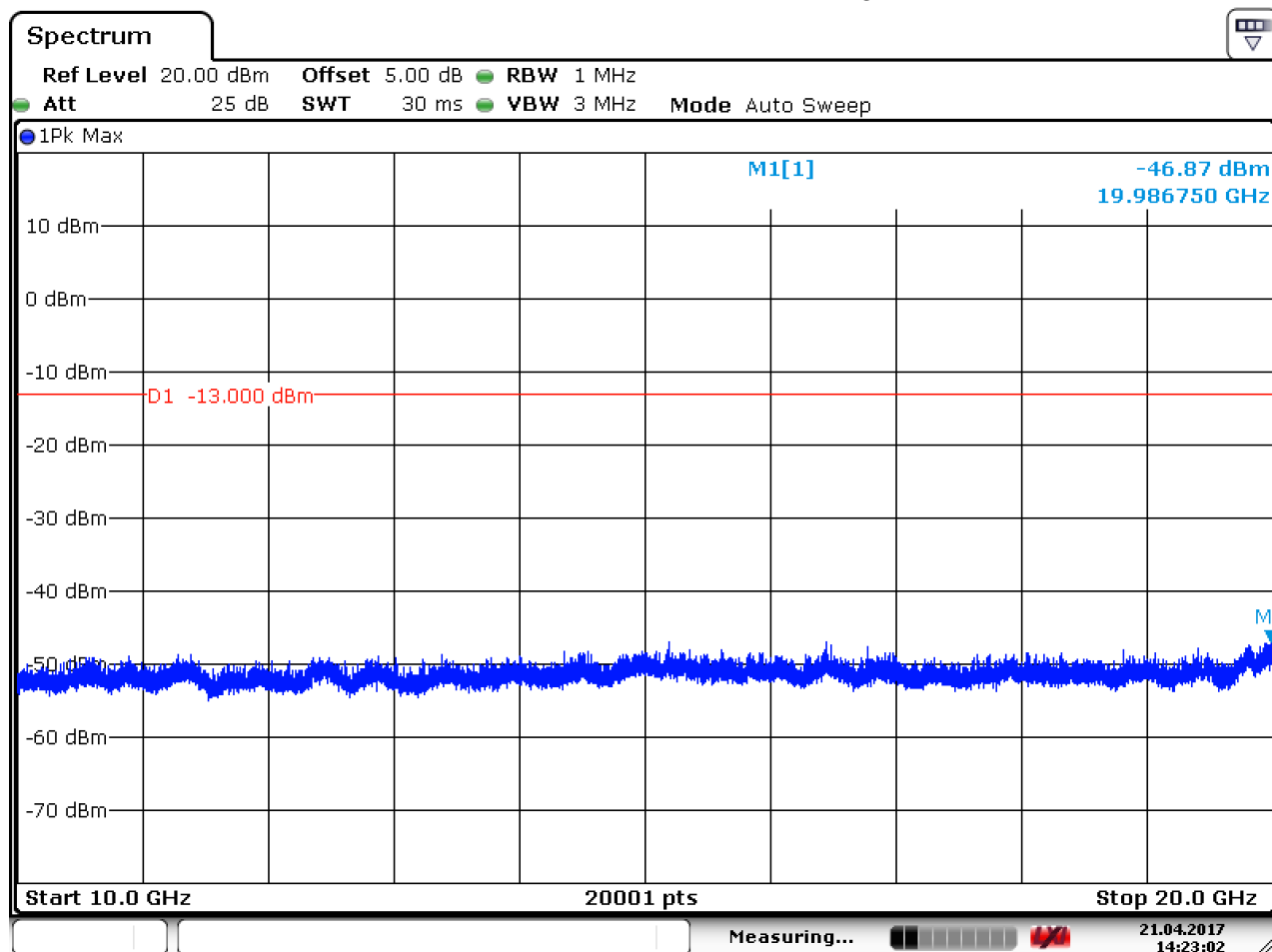
6.1.1.4.1 Test Channel = LCH



Date: 21.APR.2017 14:35:00



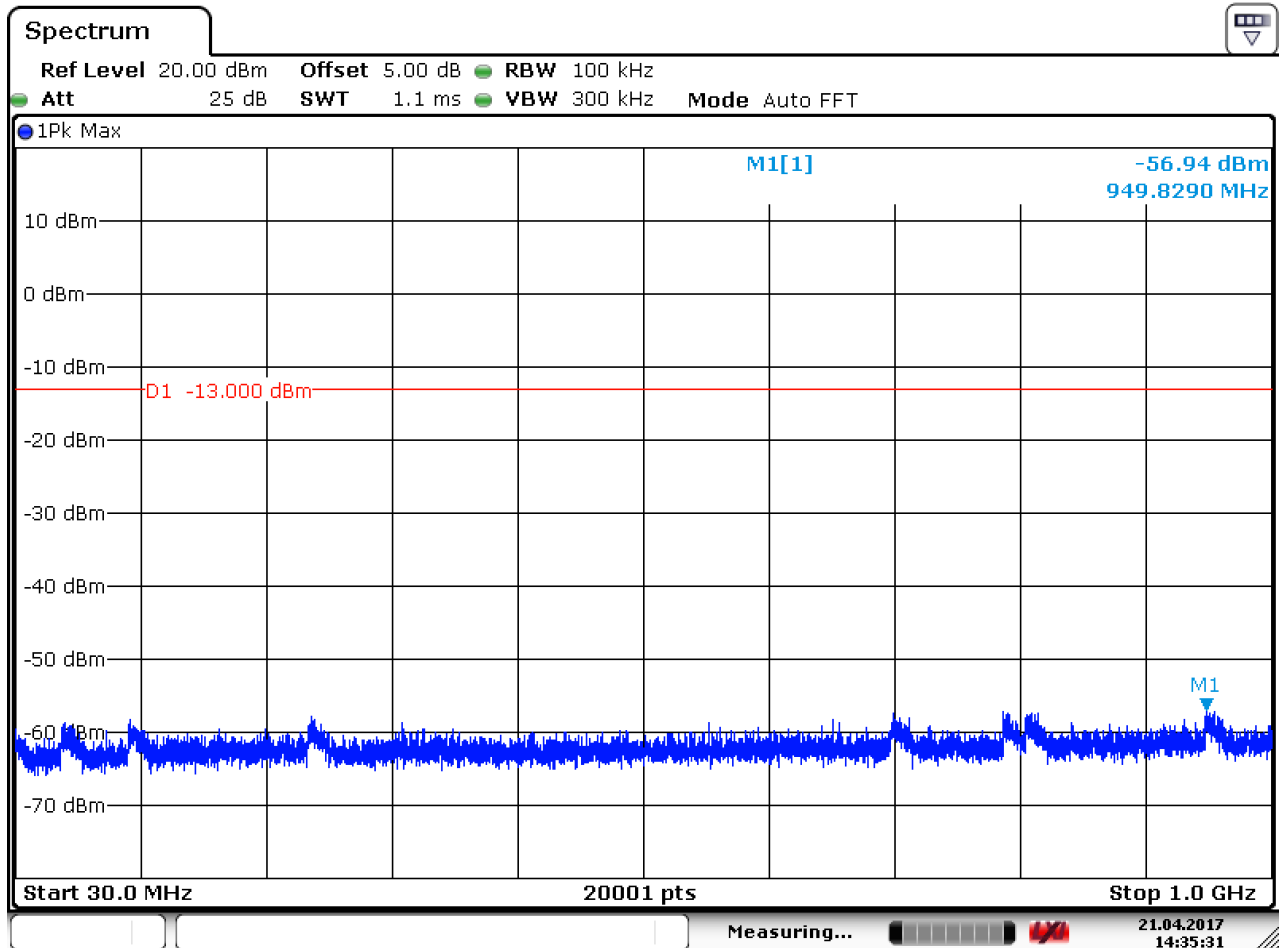
Date: 21.APR.2017 14:23:40



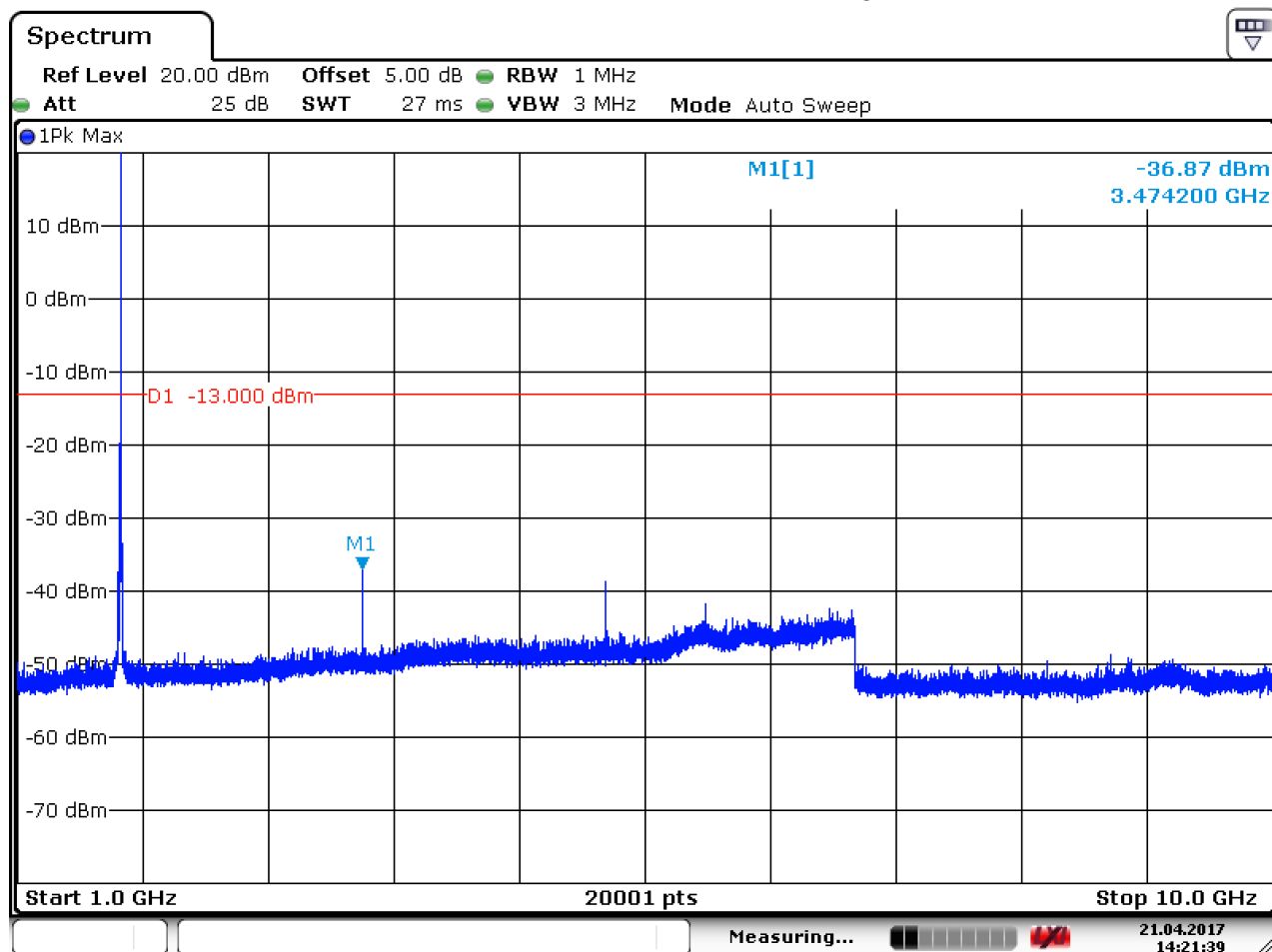
Date: 21.APR.2017 14:23:02



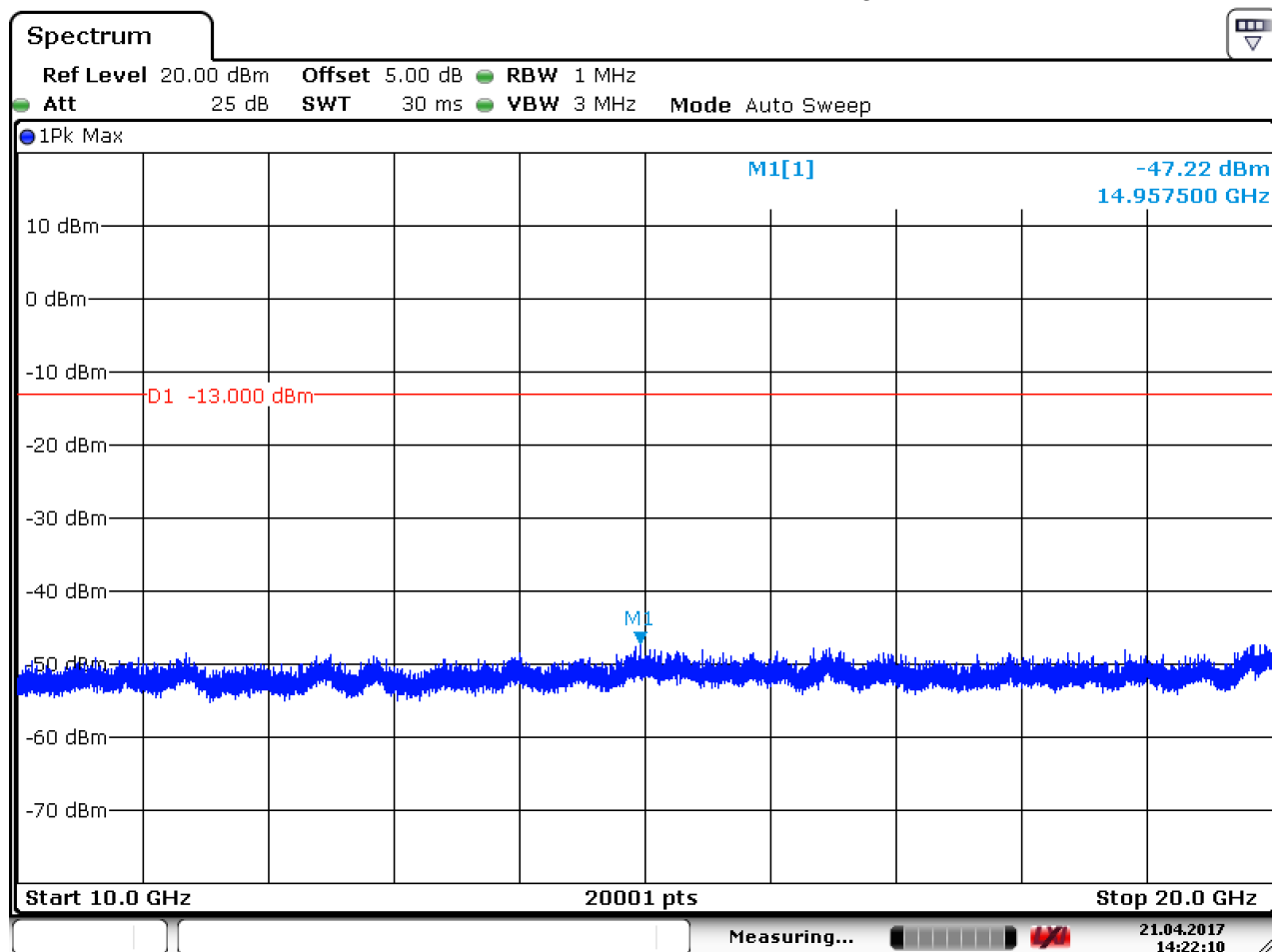
6.1.1.4.2 Test Channel = MCH



Date: 21.APR.2017 14:35:32



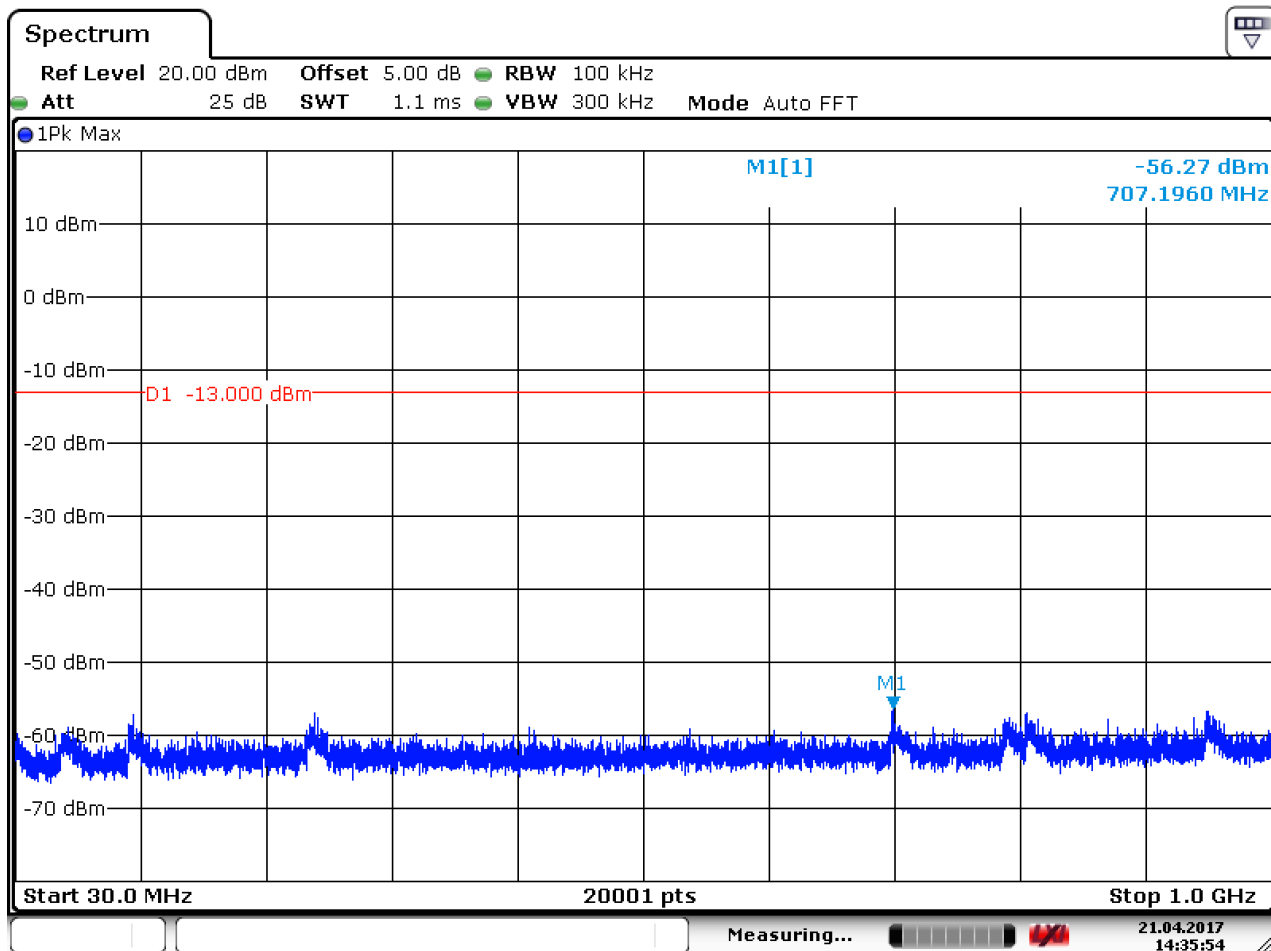
Date: 21.APR.2017 14:21:40



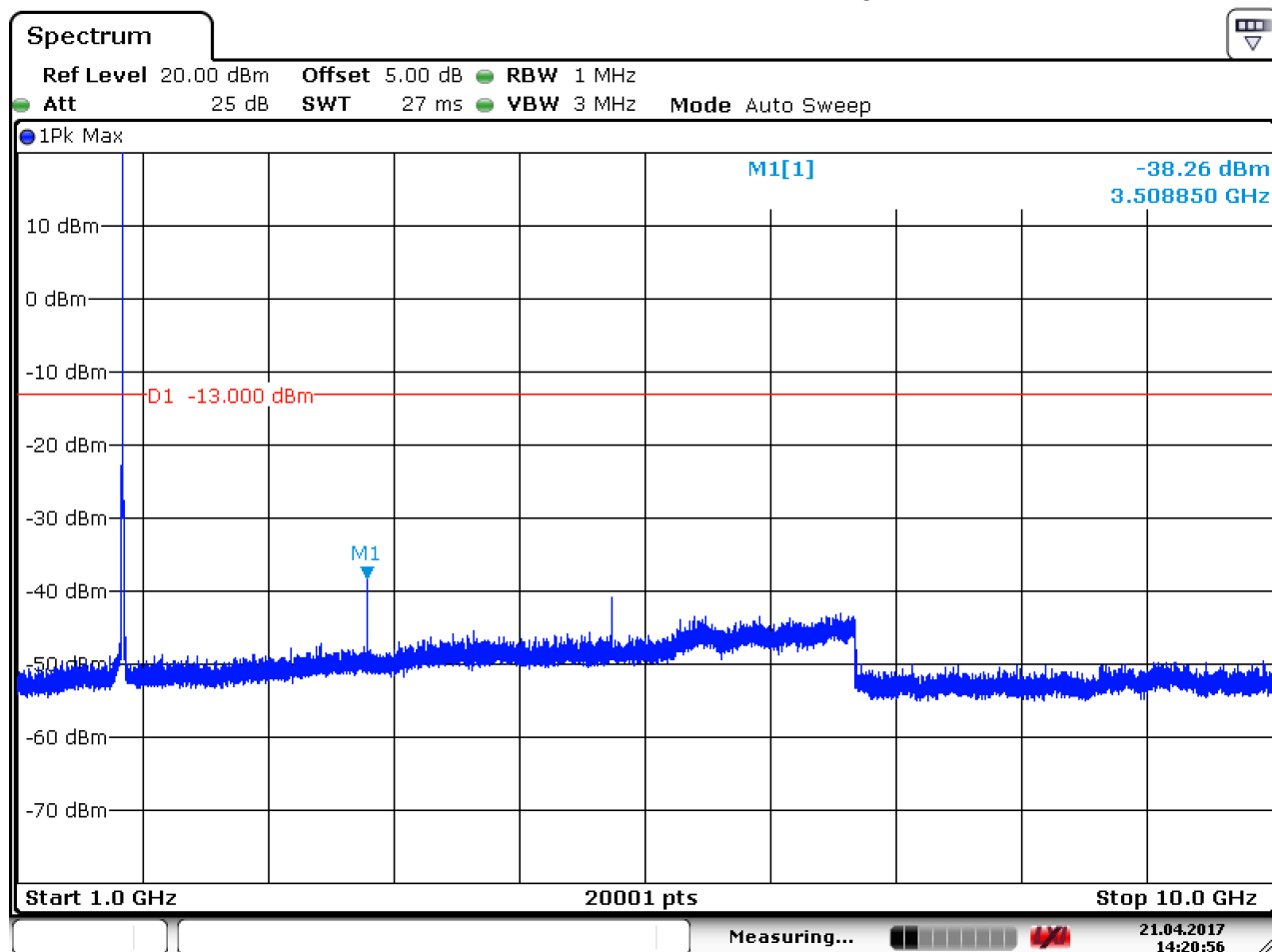
Date: 21.APR.2017 14:22:10



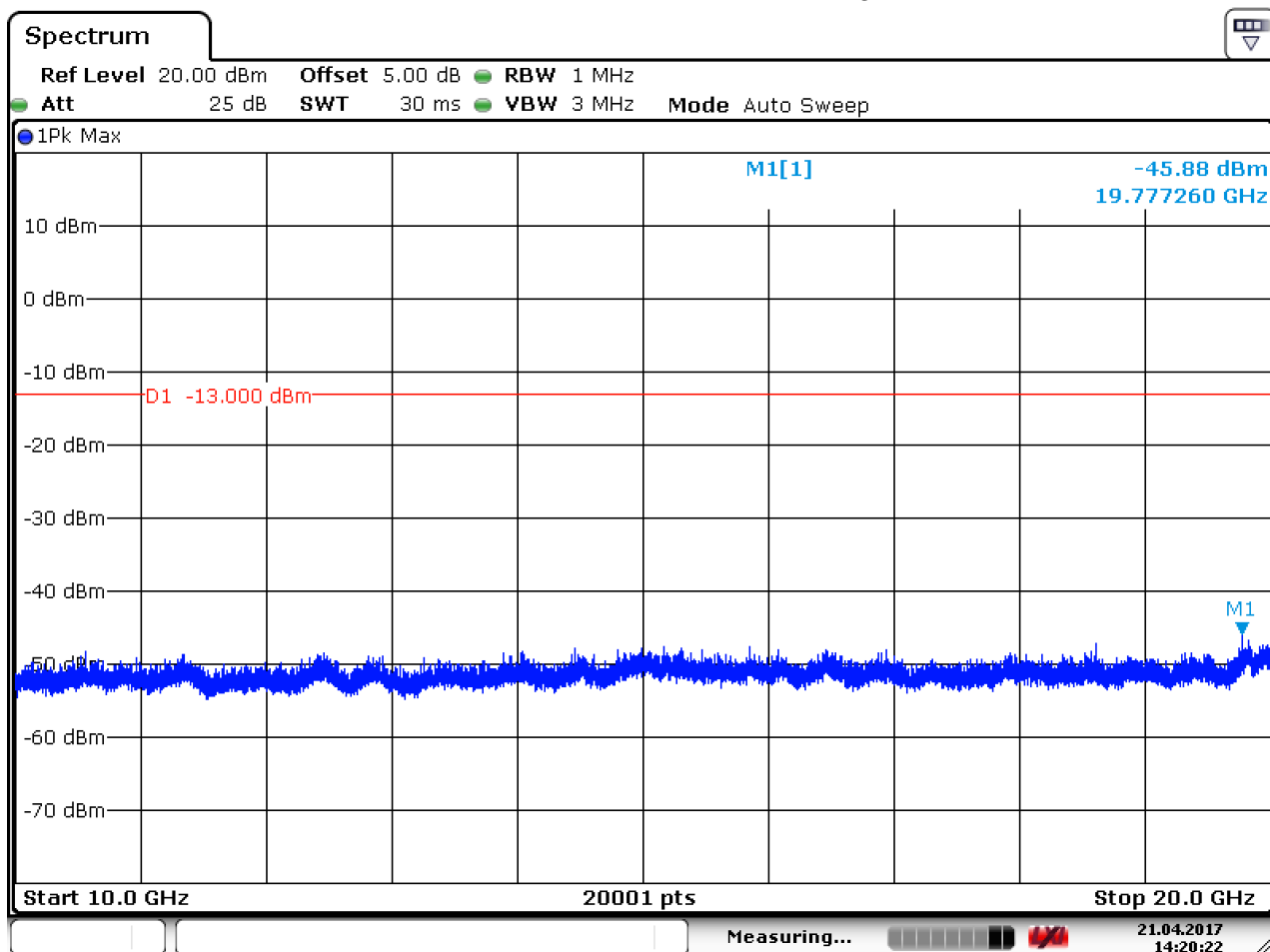
6.1.1.4.3 Test Channel = HCH



Date: 21.APR.2017 14:35:54



Date: 21.APR.2017 14:20:57

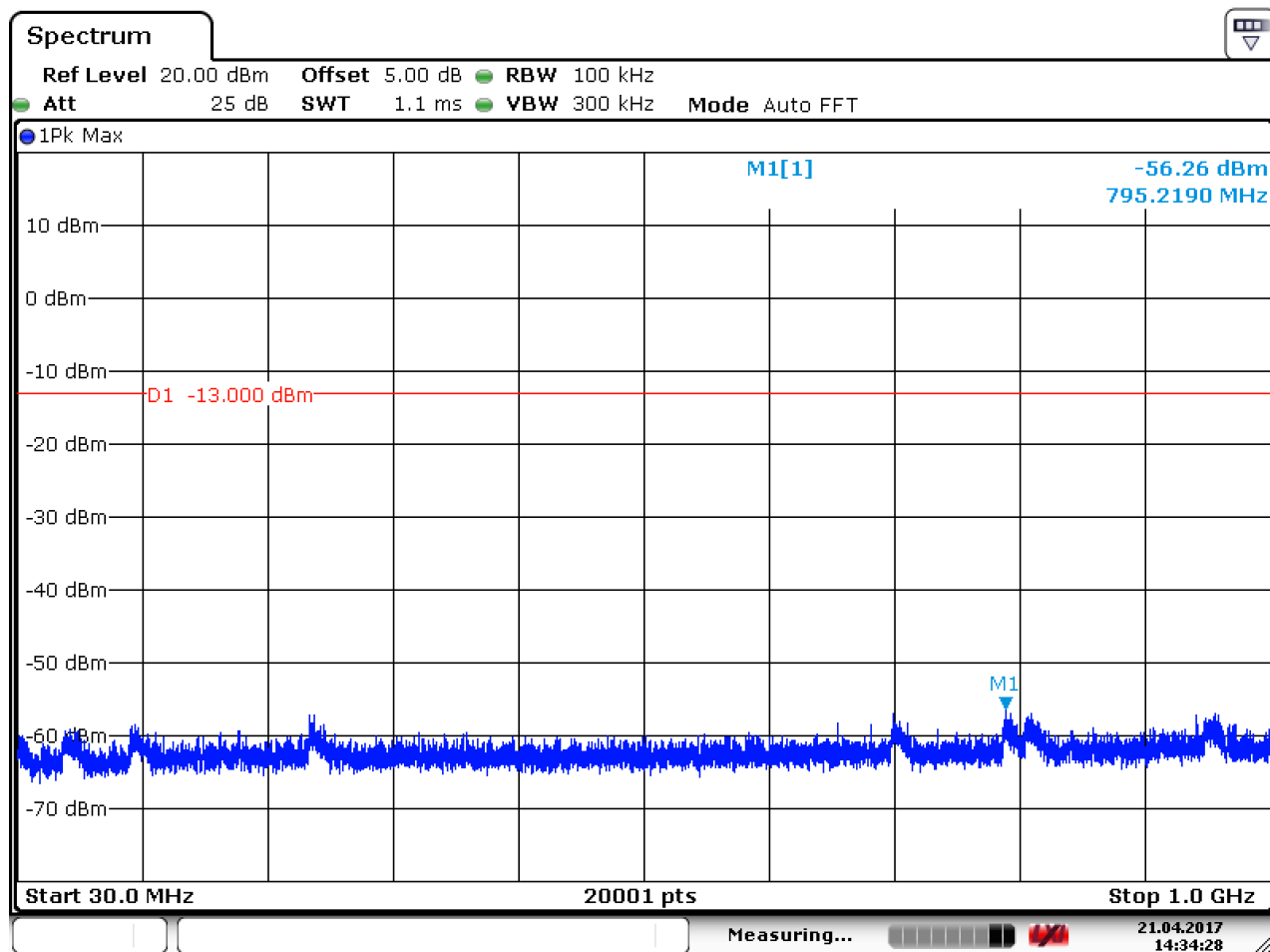


Date: 21.APR.2017 14:20:22

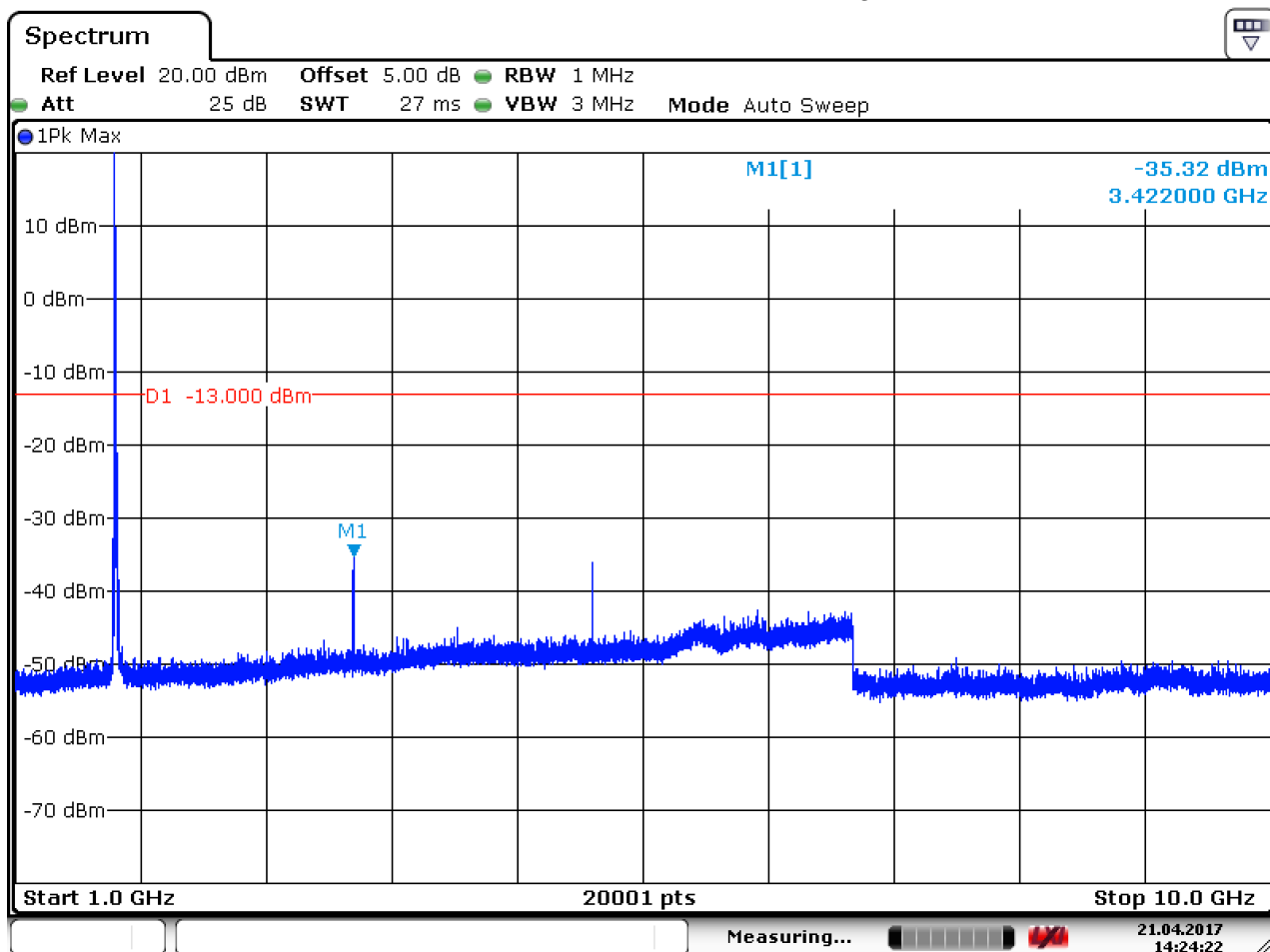


6.1.1.5 Test Mode = LTE / TM1 15MHz RB1#0

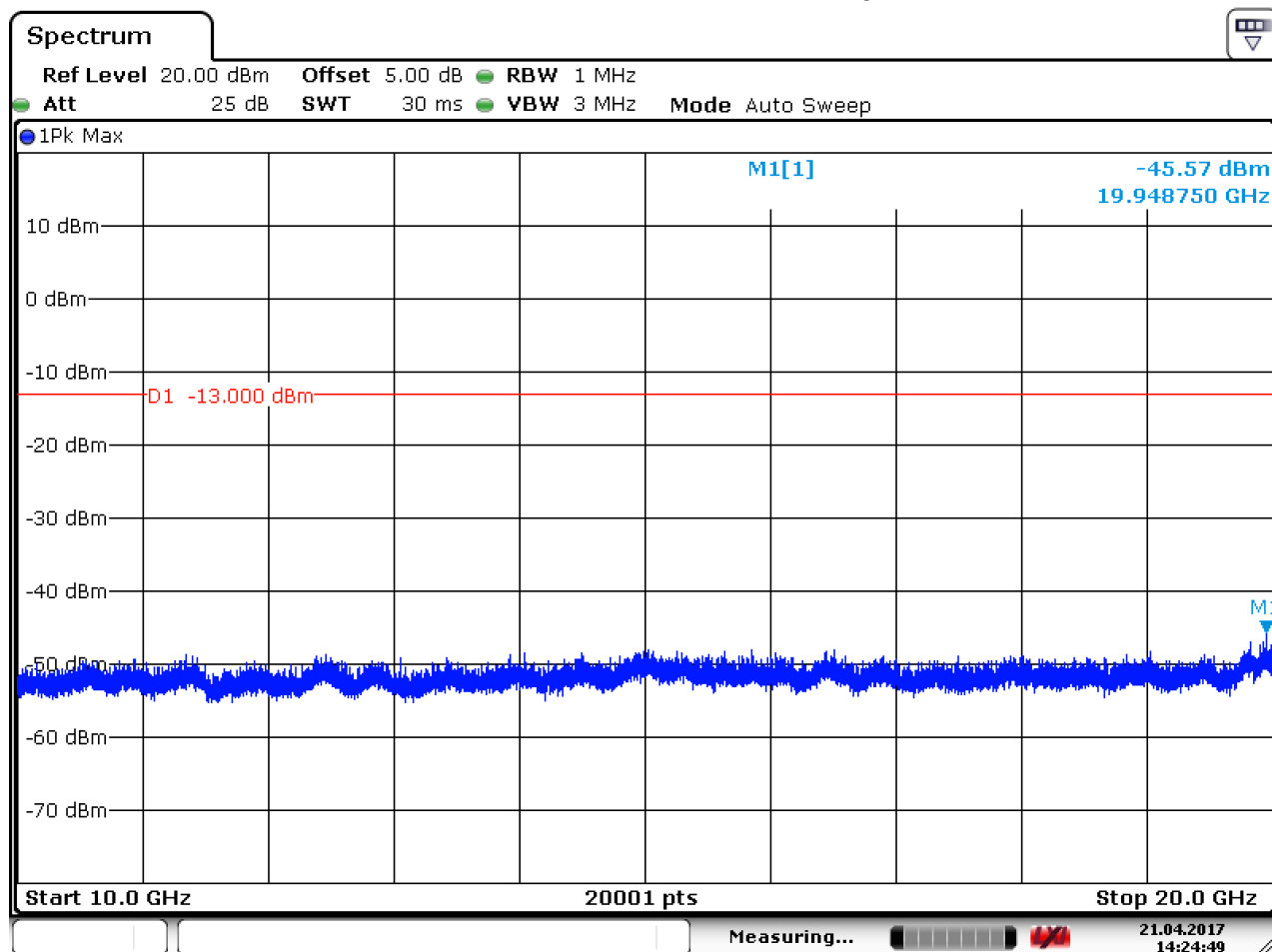
6.1.1.5.1 Test Channel = LCH



Date: 21.APR.2017 14:34:29



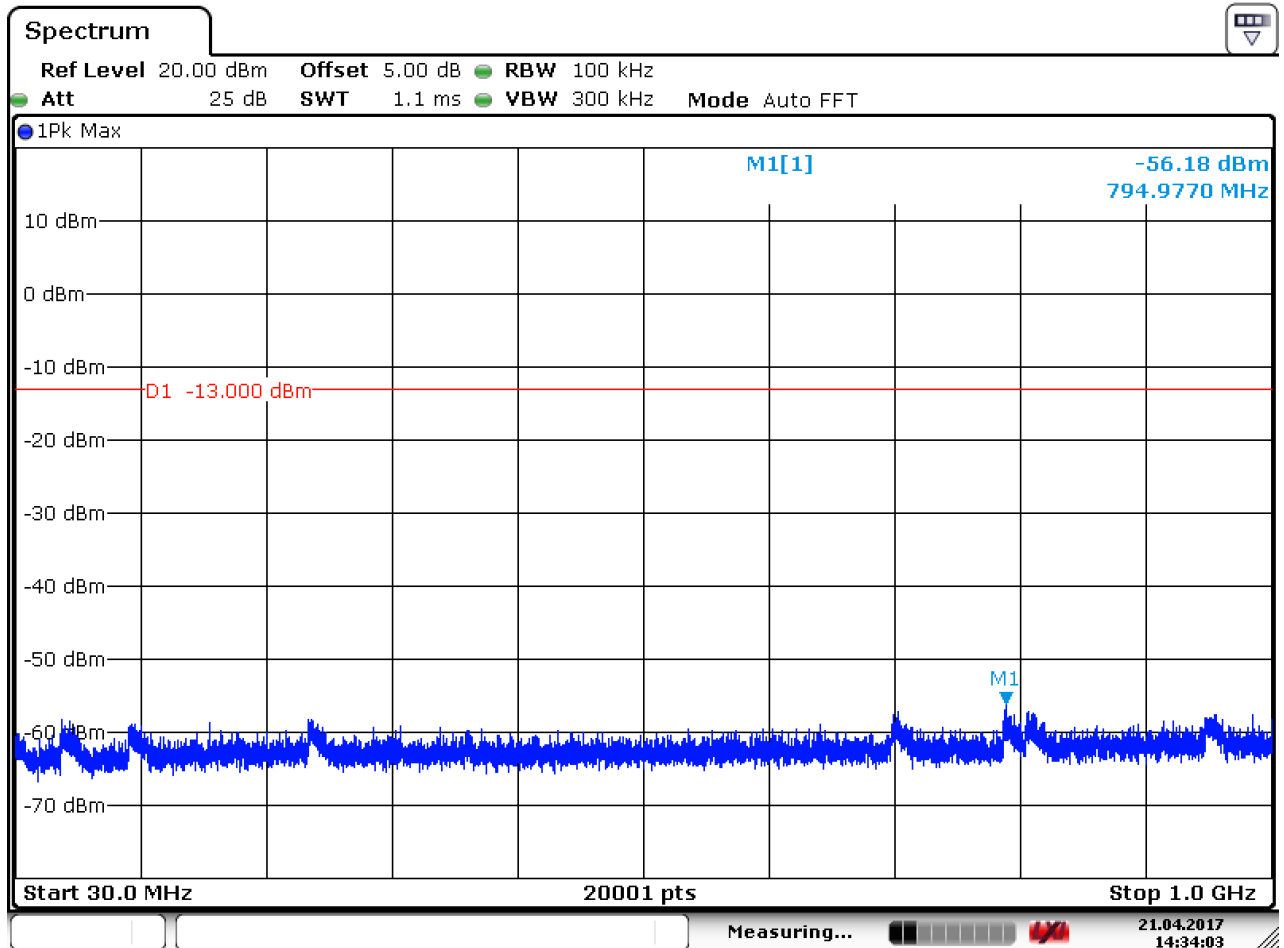
Date: 21.APR.2017 14:24:22



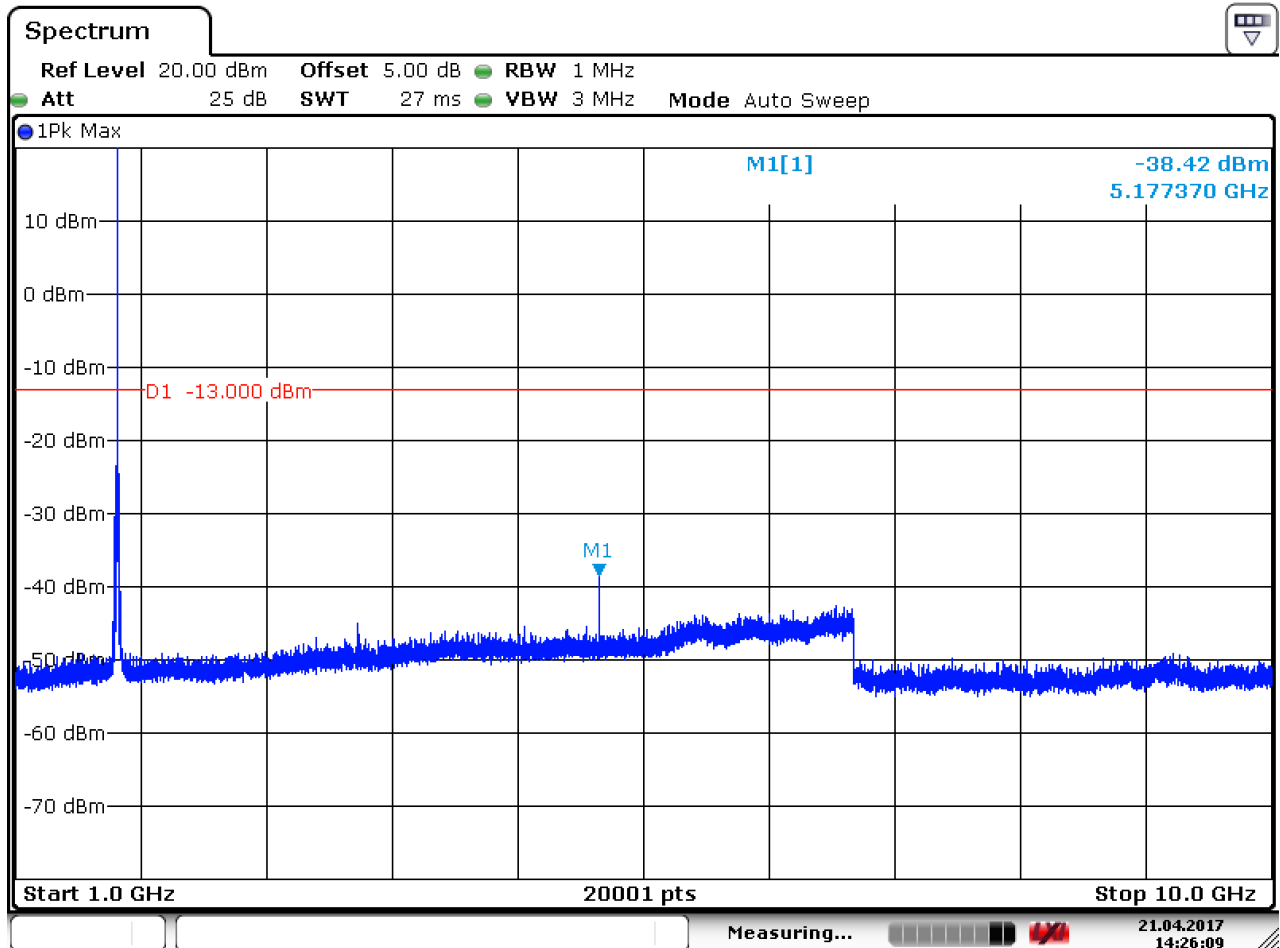
Date: 21.APR.2017 14:24:49



6.1.1.5.2 Test Channel = MCH



Date: 21.APR.2017 14:34:04

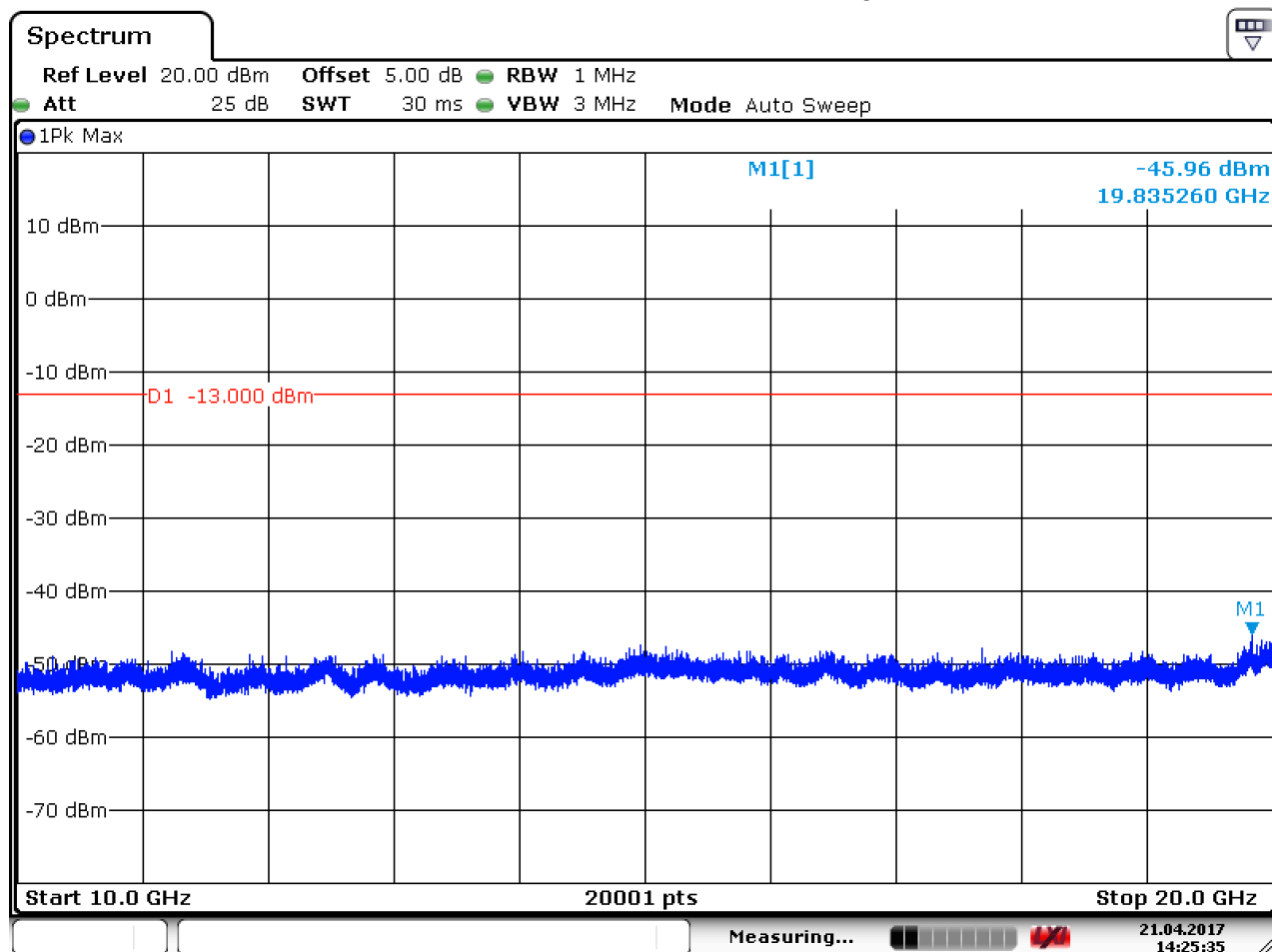


Date: 21.APR.2017 14:26:10



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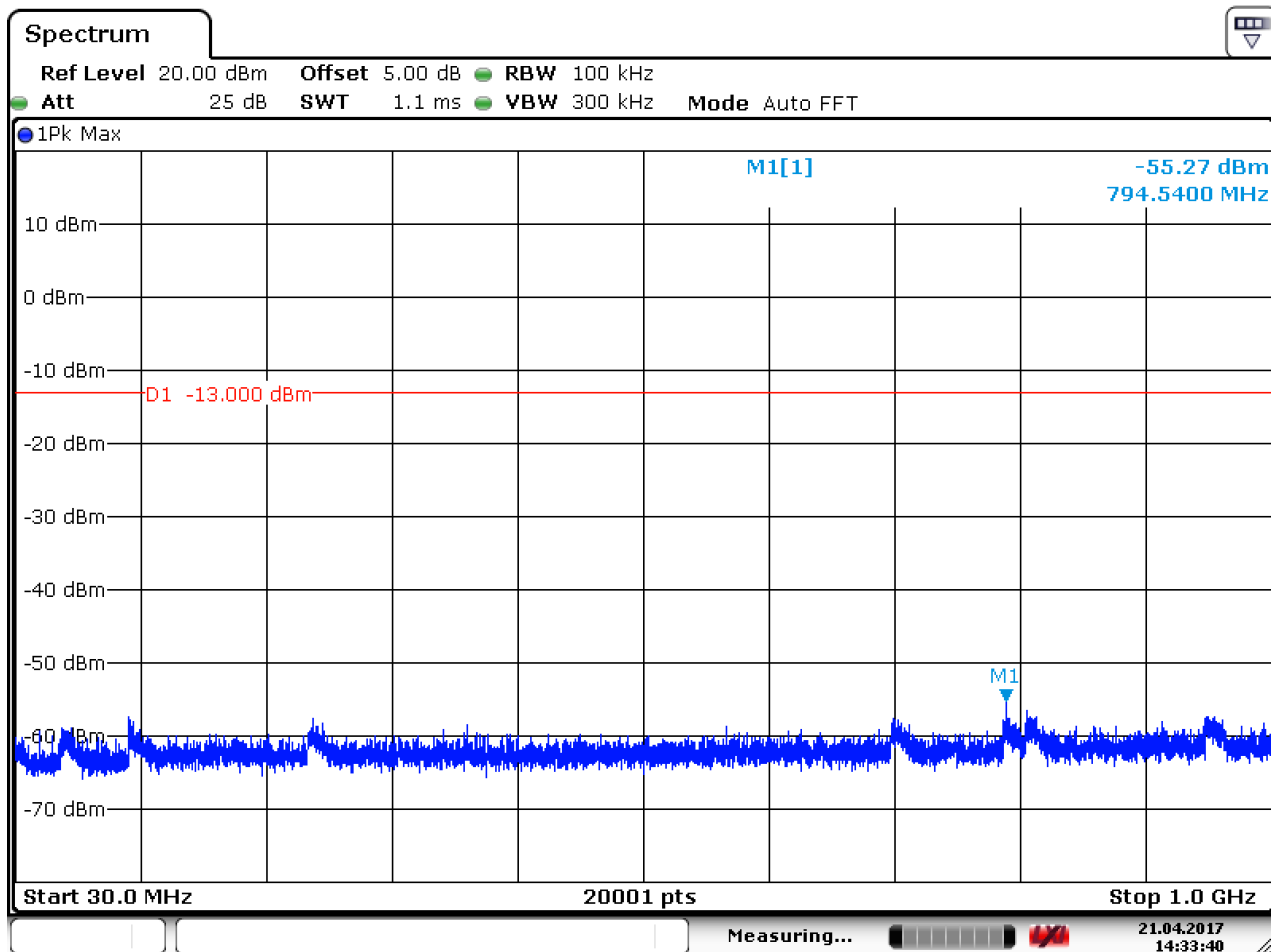
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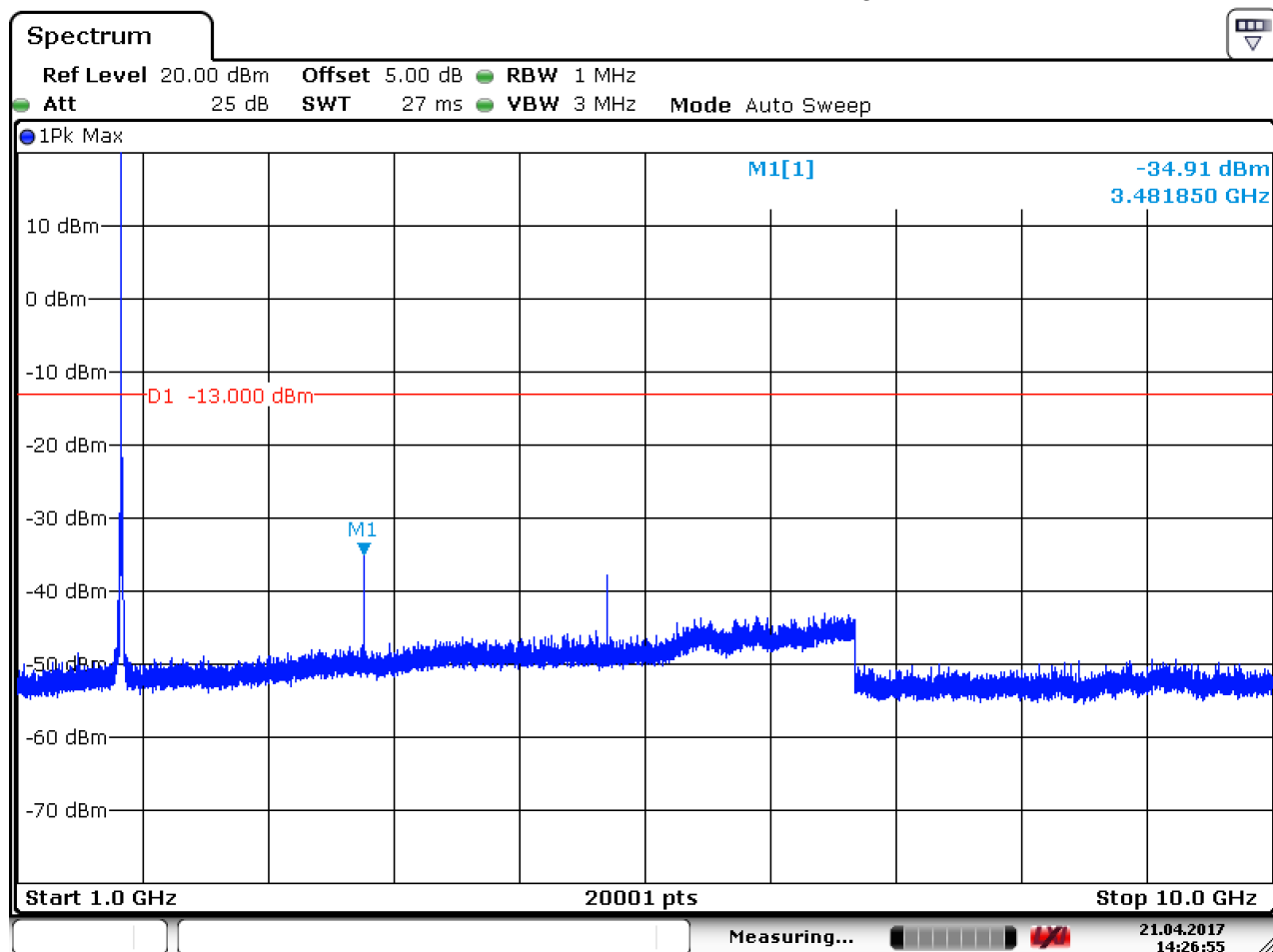
Date: 21.APR.2017 14:25:35



6.1.1.5.3 Test Channel = HCH



Date: 21.APR.2017 14:33:40

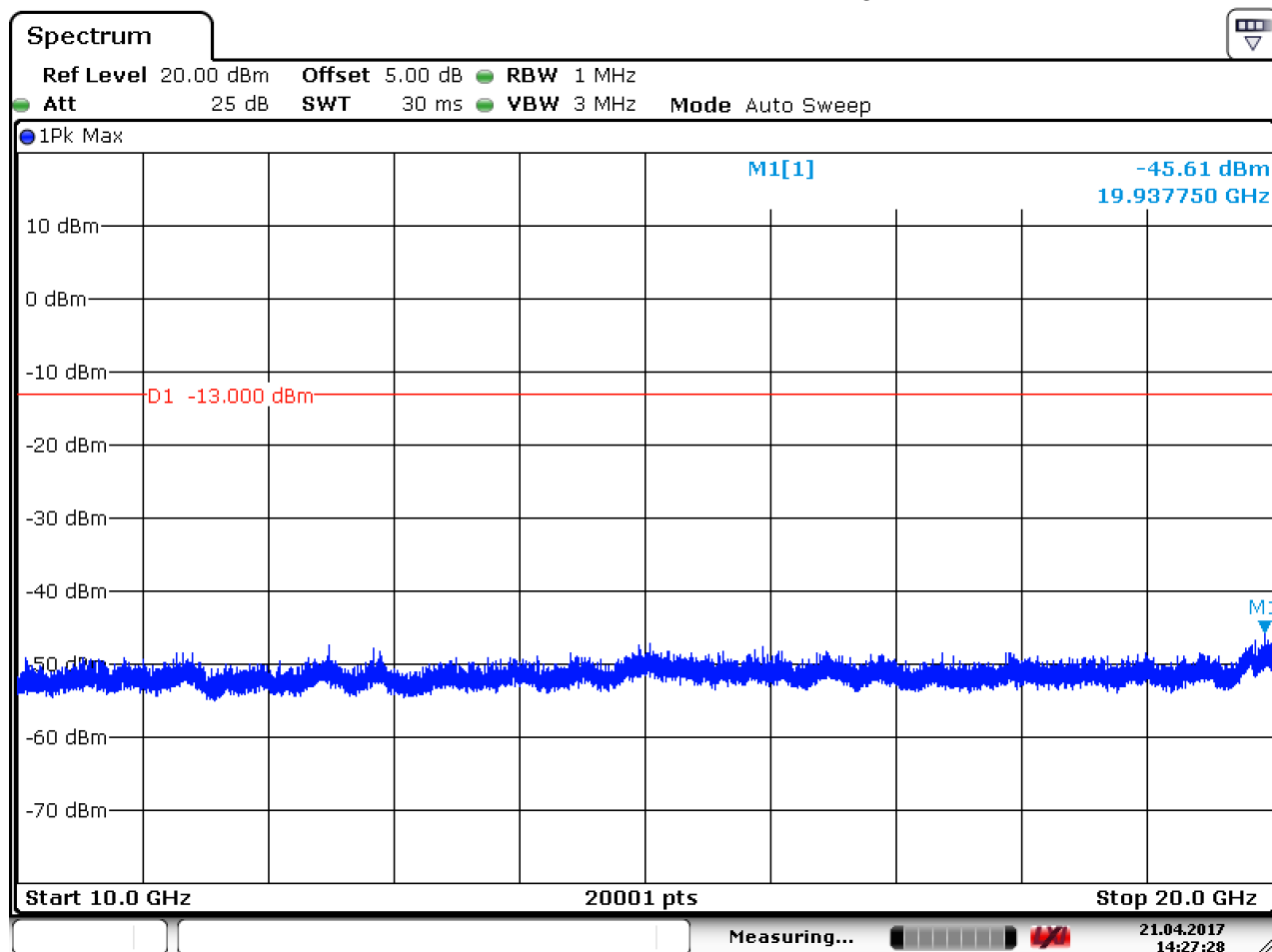


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Date: 21.APR.2017 14:27:28



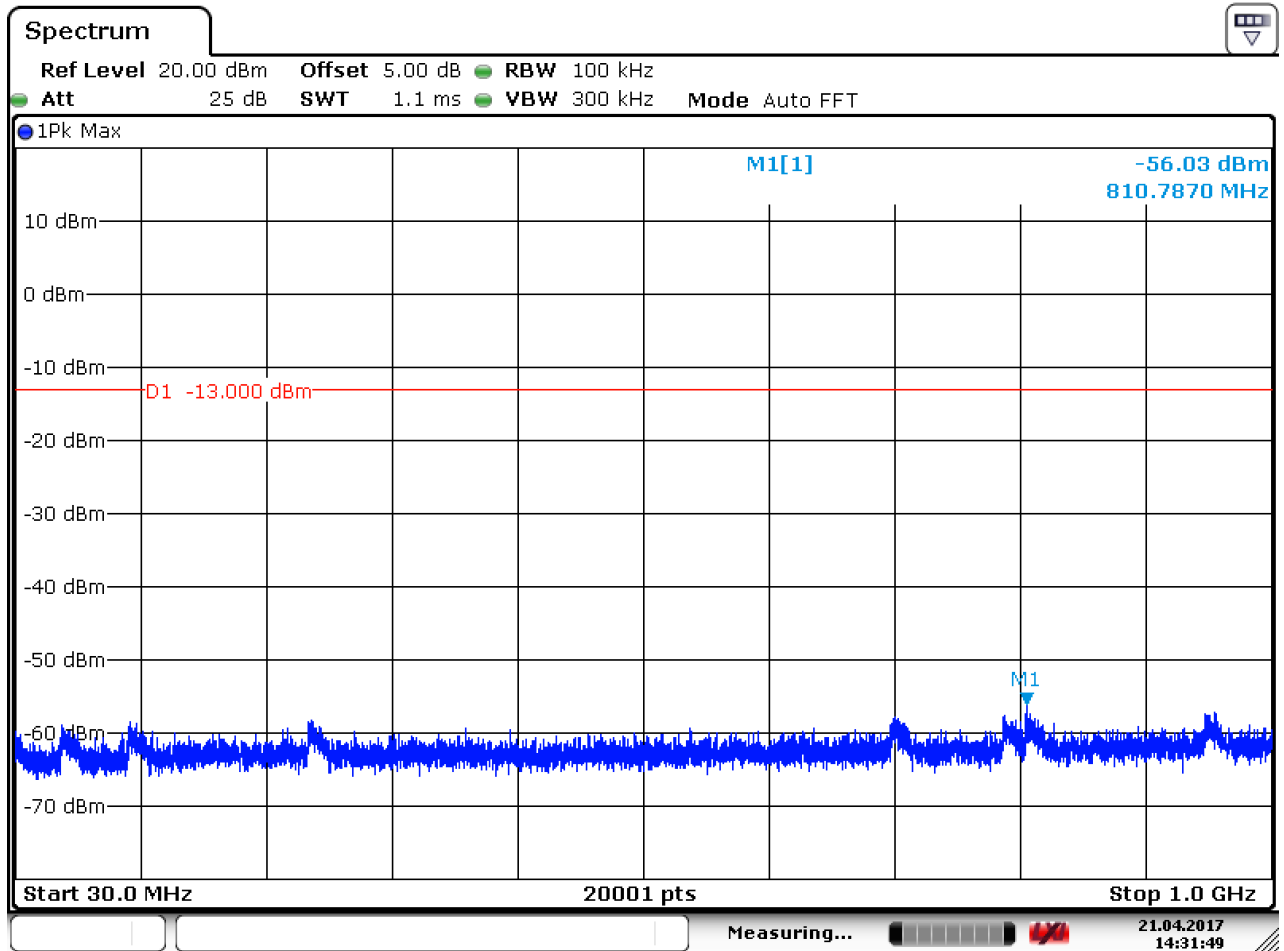
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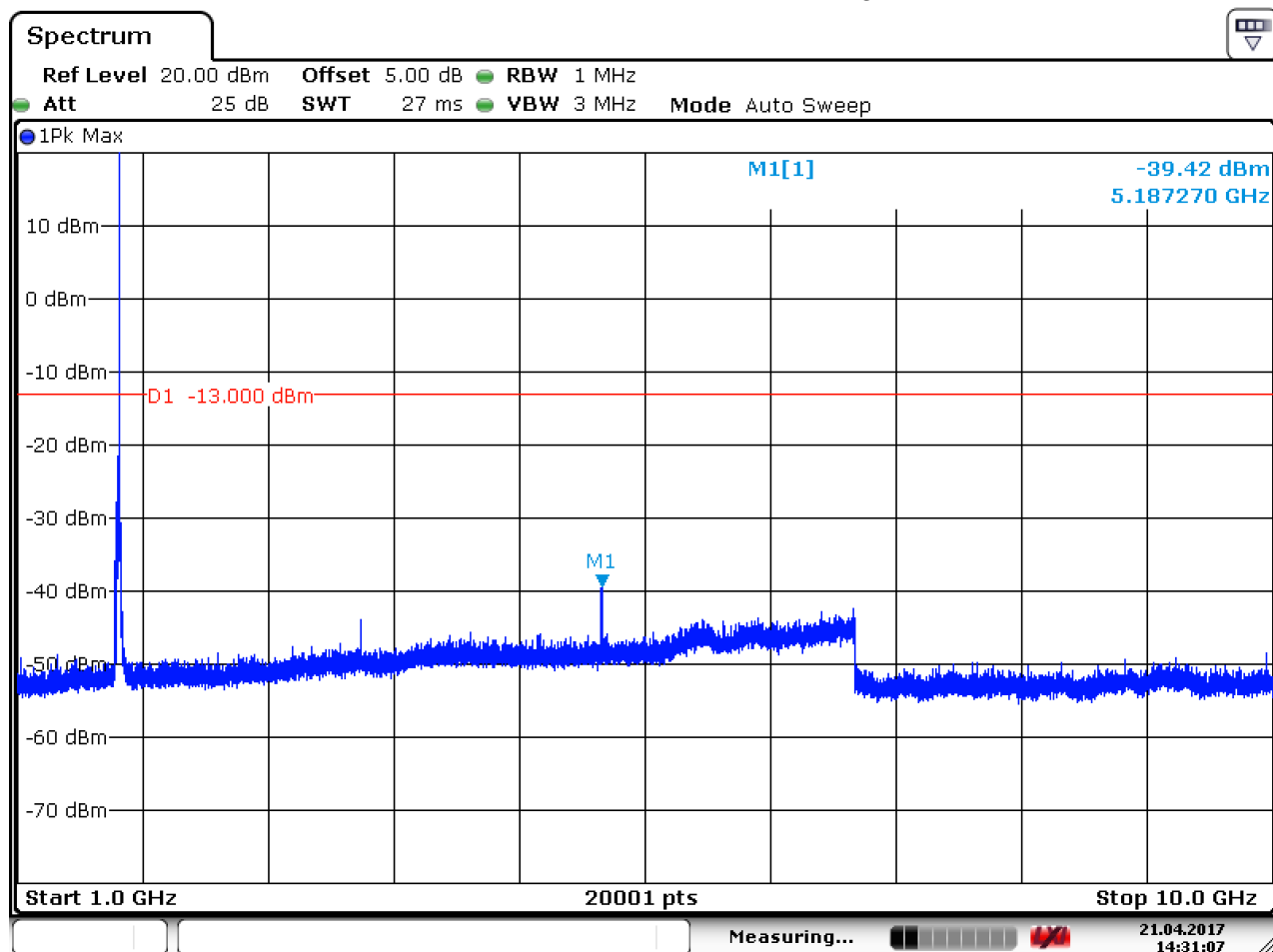
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6.1.1.6 Test Mode = LTE / TM1 20MHz RB1#0

6.1.1.6.1 Test Channel = LCH



Date: 21.APR.2017 14:31:49

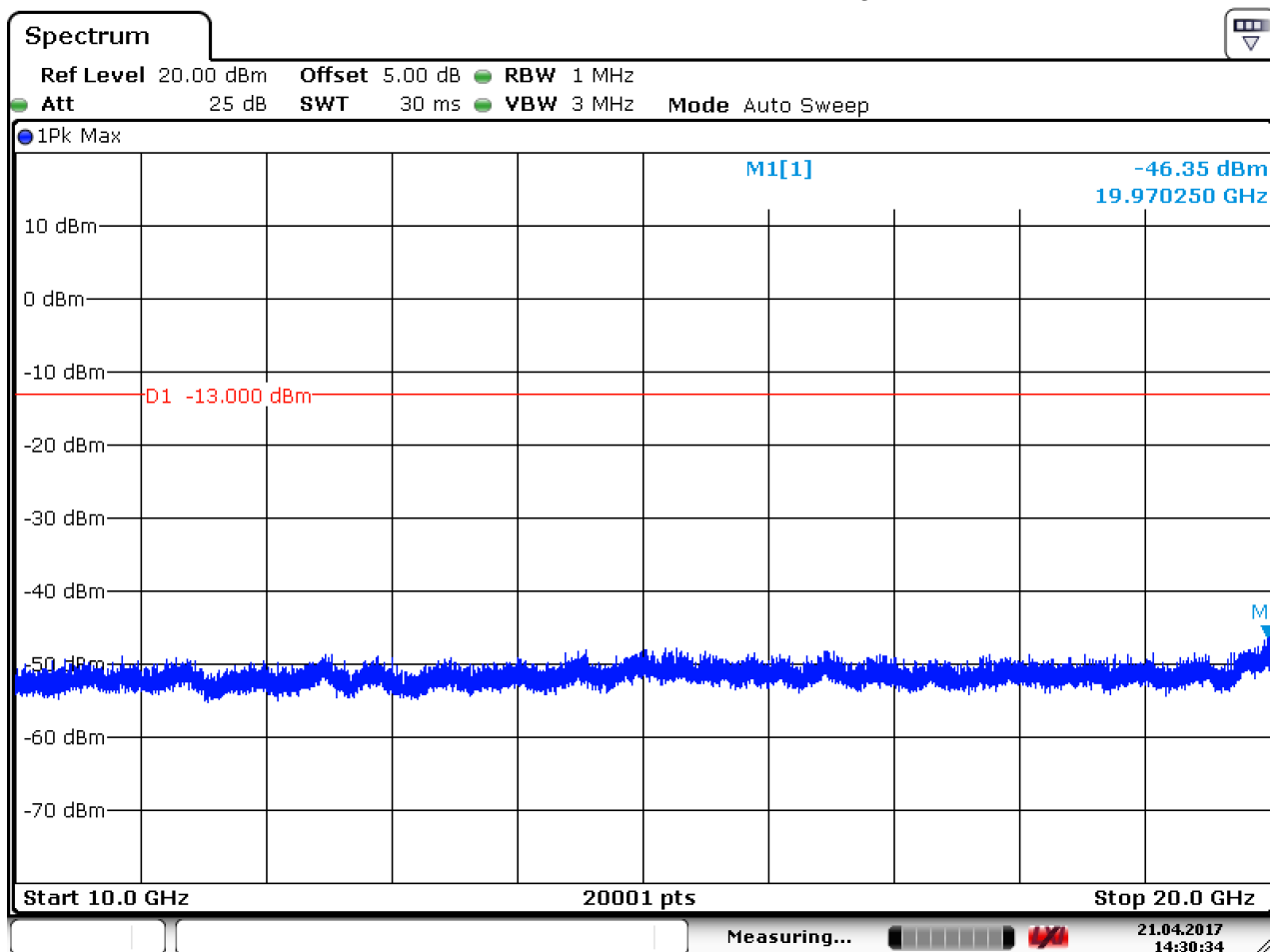


Date: 21.APR.2017 14:31:07



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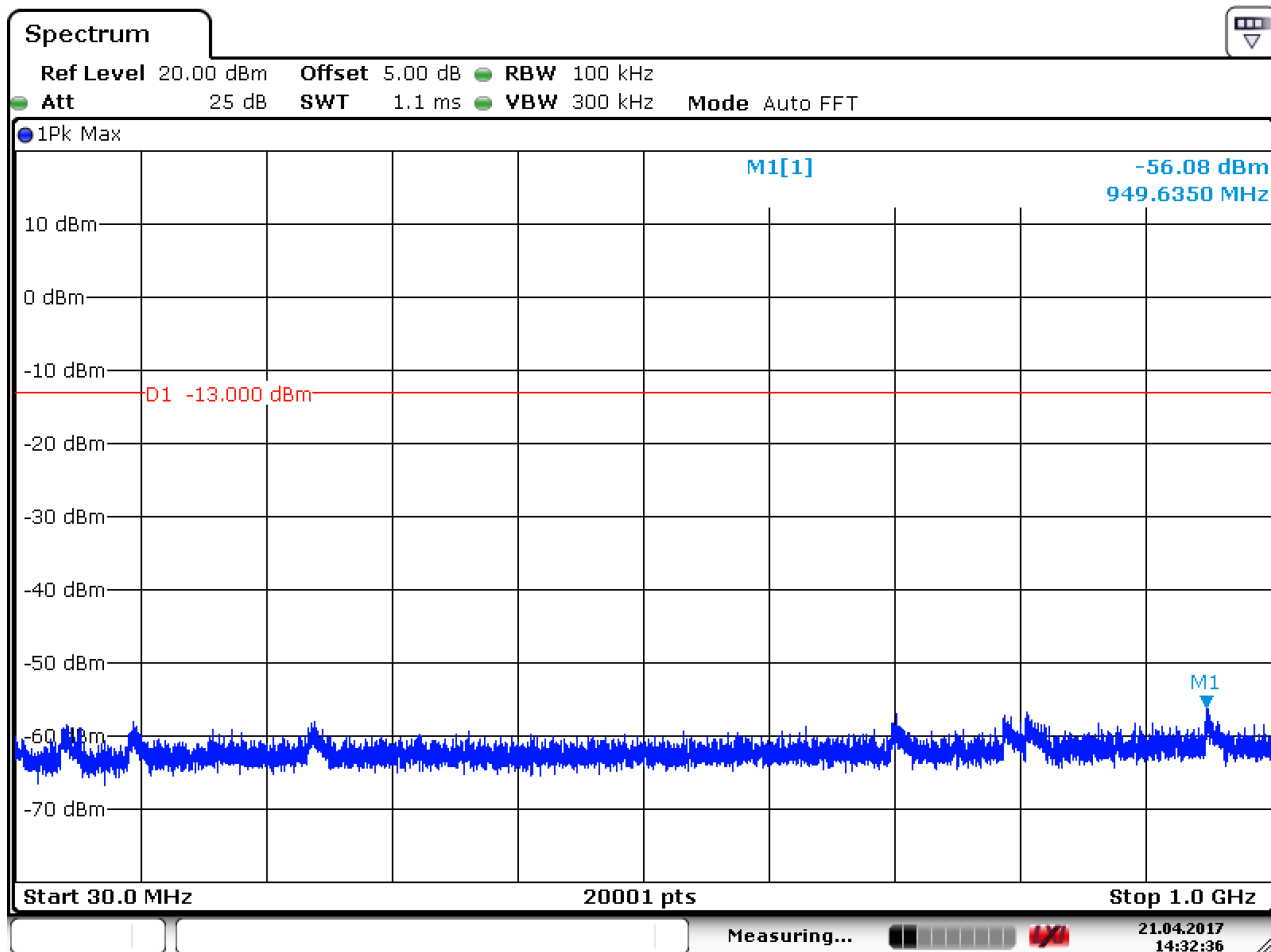
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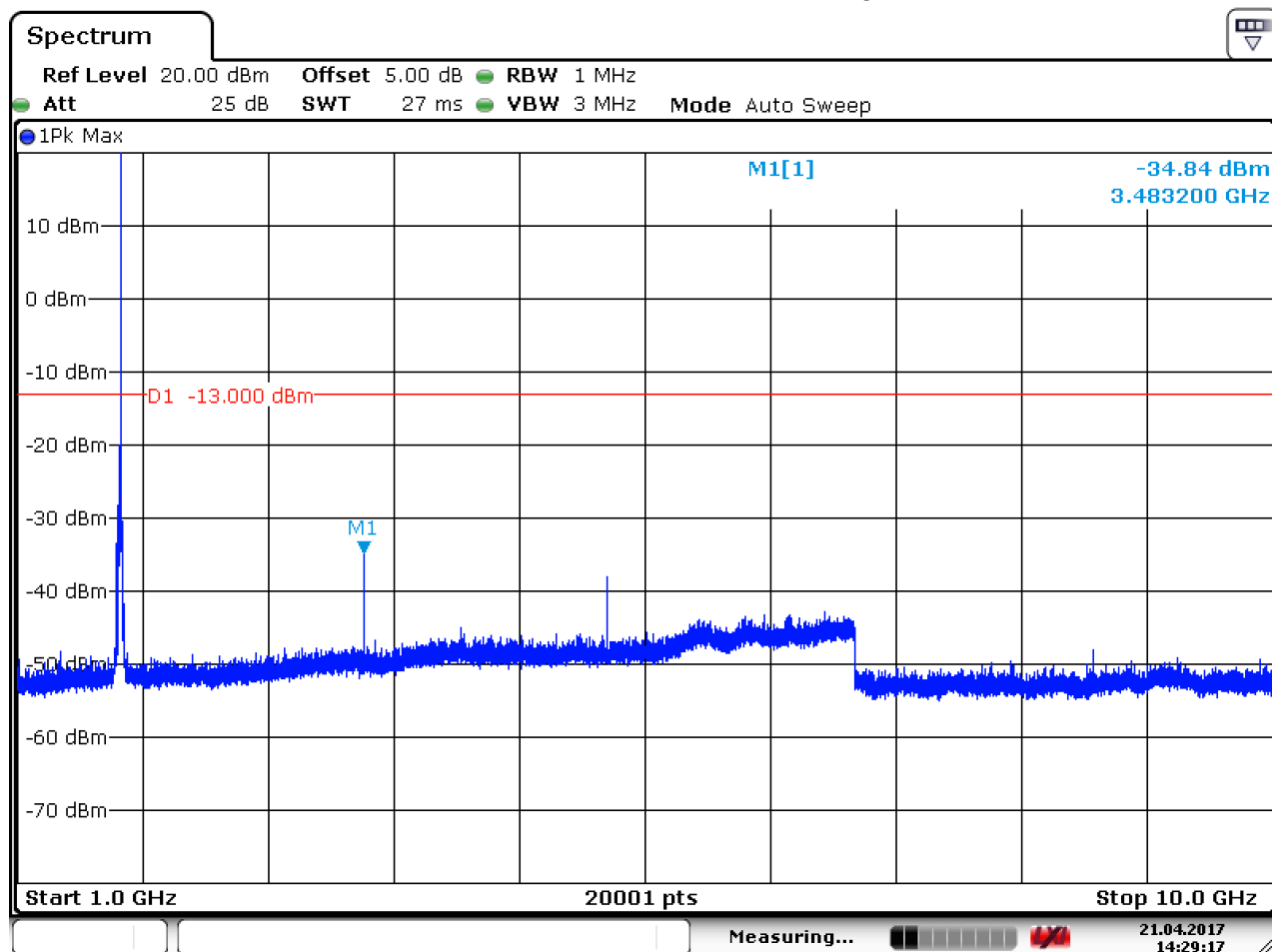
Date: 21.APR.2017 14:30:35



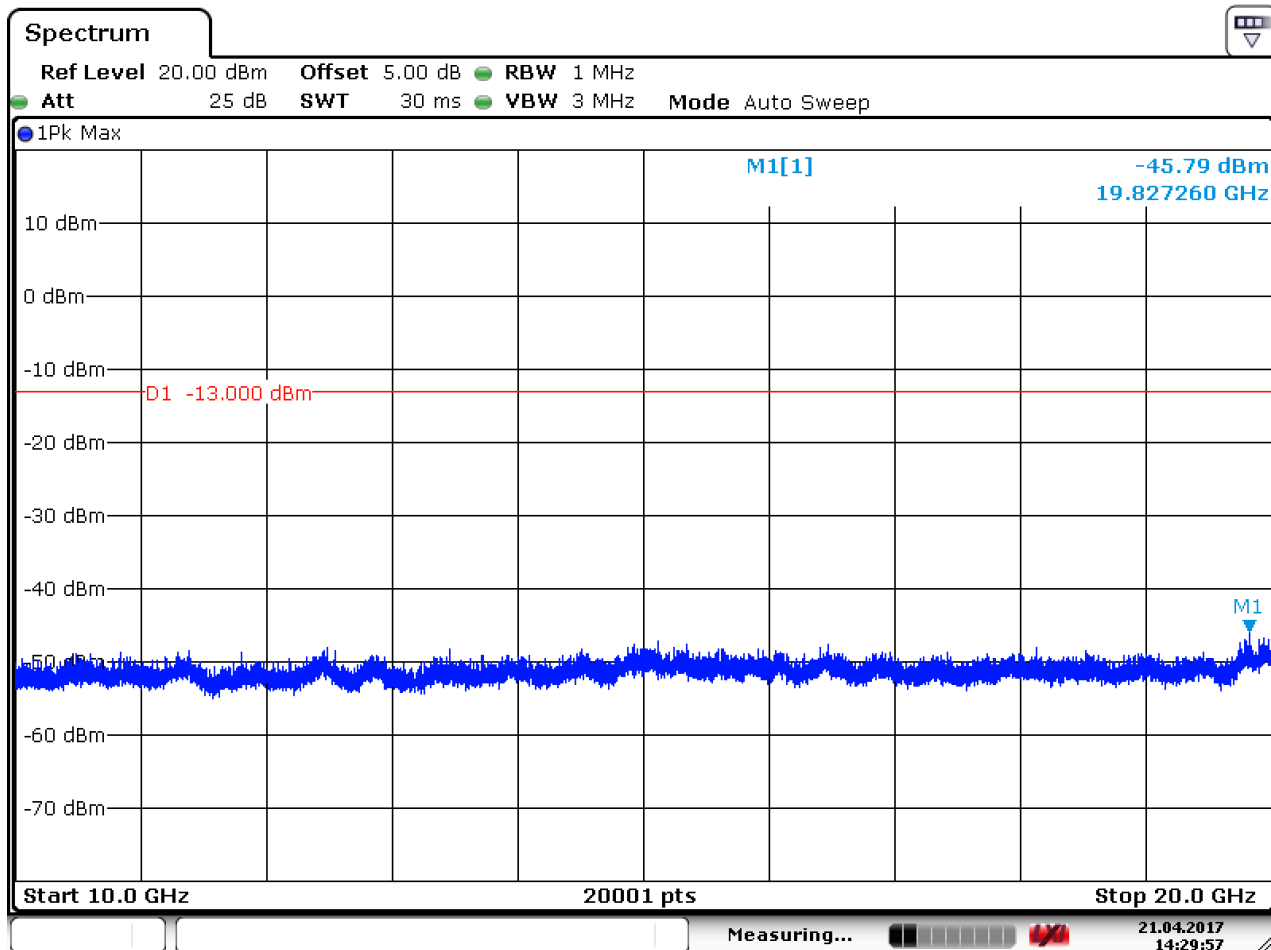
6.1.1.6.2 Test Channel = MCH



Date: 21.APR.2017 14:32:36



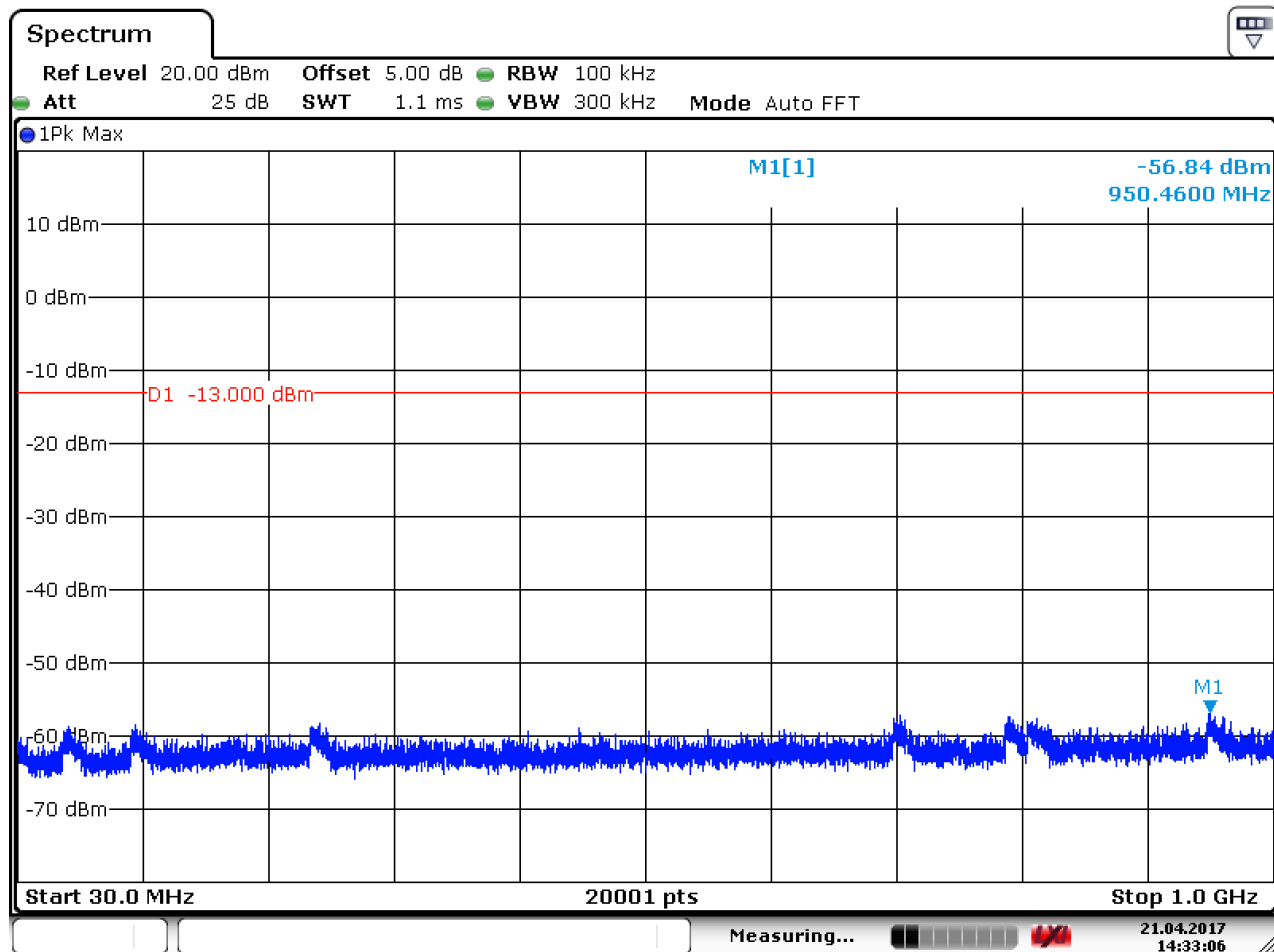
Date: 21.APR.2017 14:29:18



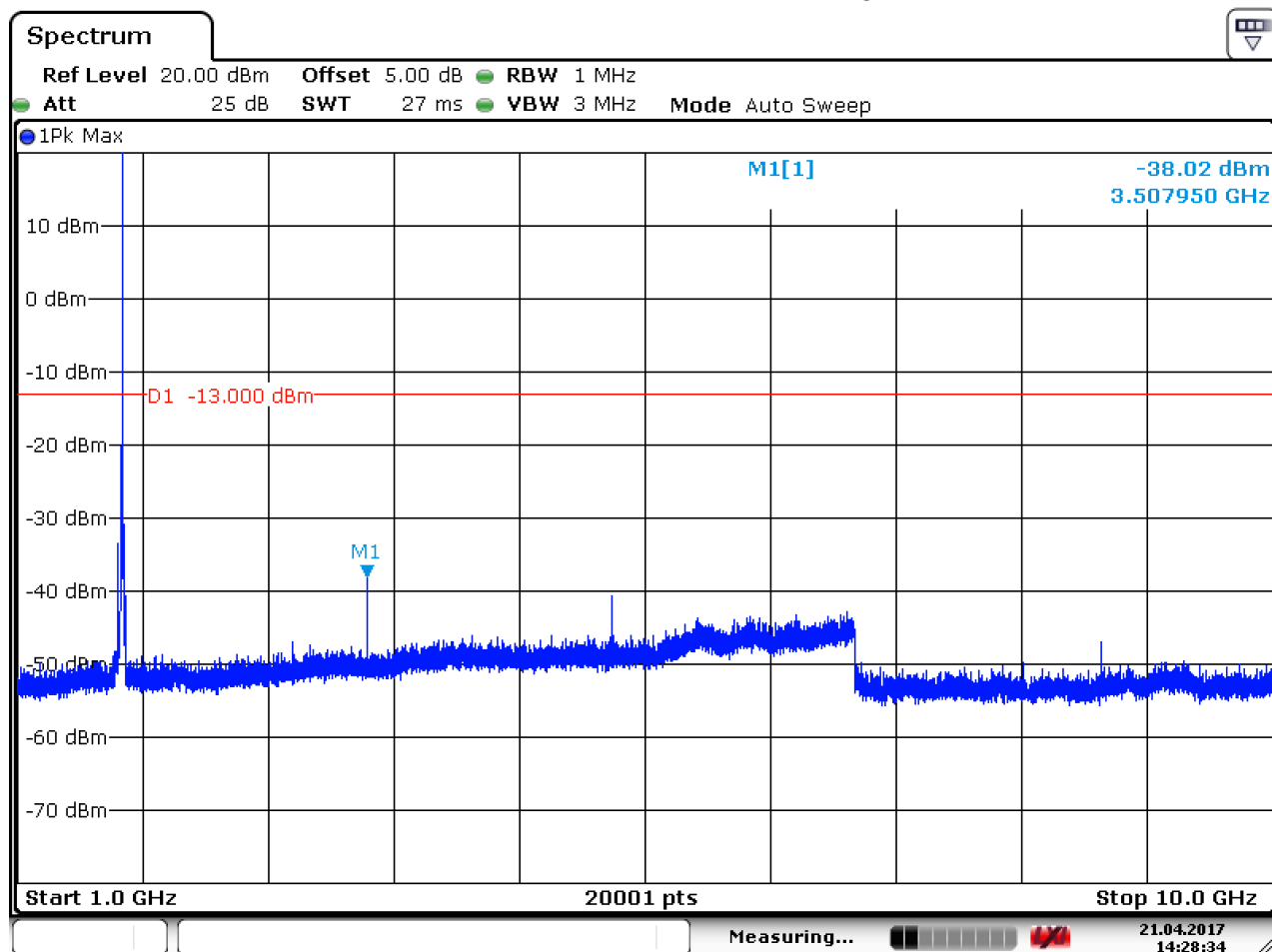
Date: 21.APR.2017 14:29:57



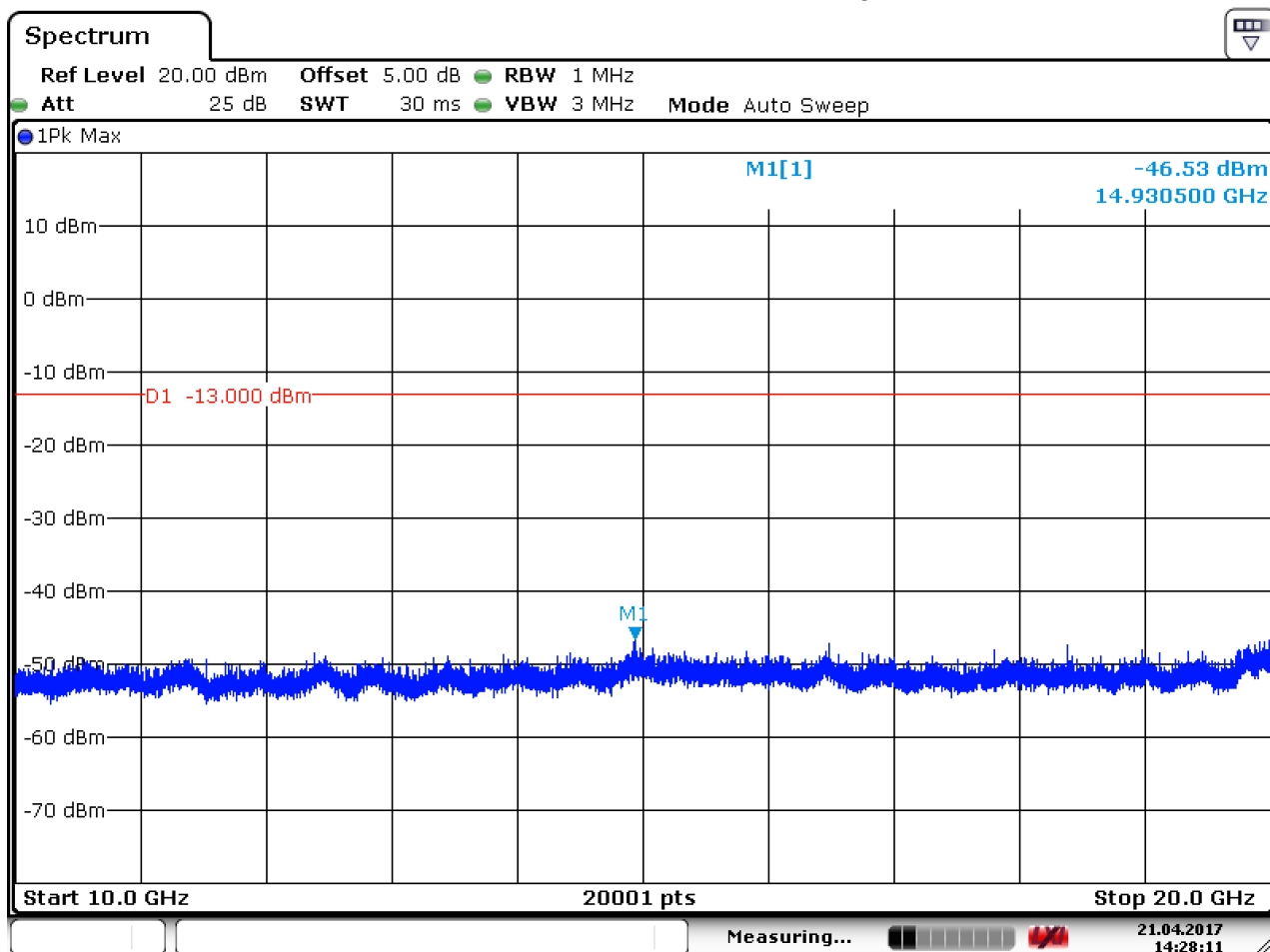
6.1.1.6.3 Test Channel = HCH



Date: 21.APR.2017 14:33:06



Date: 21.APR.2017 14:28:35



Date: 21.APR.2017 14:28:11



7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band4

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 |
|-----------------|-------------|------------------|-----------------|--------------|
| 1210.000 | -65.98 | -13.00 | -52.98 | Vertical |
| 2272.000 | -59.05 | -13.00 | -46.05 | Vertical |
| 3975.000 | -68.46 | -13.00 | -55.46 | Vertical |
| 1199.000 | -66.82 | -13.00 | -53.82 | Horizontal |
| 4267.500 | -67.70 | -13.00 | -54.70 | Horizontal |
| 5340.000 | -68.10 | -13.00 | -55.10 | Horizontal |

7.1.1.1.2 Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 1903.000 | -60.82 | -13.00 | -47.82 | Vertical |
| 2296.000 | -59.22 | -13.00 | -46.22 | Vertical |
| 4170.000 | -67.91 | -13.00 | -54.91 | Vertical |
| 1199.000 | -66.81 | -13.00 | -53.81 | Horizontal |
| 1892.000 | -62.39 | -13.00 | -49.39 | Horizontal |
| 4755.000 | -68.15 | -13.00 | -55.15 | Horizontal |

7.1.1.1.3 Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 2189.000 | -60.55 | -13.00 | -47.55 | Vertical |
| 3585.000 | -69.25 | -13.00 | -56.25 | Vertical |
| 4950.000 | -67.25 | -13.00 | -54.25 | Vertical |
| 1122.000 | -66.99 | -13.00 | -53.99 | Horizontal |
| 4072.500 | -68.83 | -13.00 | -55.83 | Horizontal |
| 5535.000 | -67.65 | -13.00 | -54.65 | 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.



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 |
|------------|---------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTE band 4 | LTE/TM1 20MHz | LCH | TN | VL | -2.31 | -0.00134 | PASS |
| | | | | VN | -1.30 | -0.00076 | PASS |
| | | | | VH | -2.25 | -0.00131 | PASS |
| | | MCH | TN | VL | -1.94 | -0.00112 | PASS |
| | | | | VN | -3.98 | -0.00230 | PASS |
| | | | | VH | -4.29 | -0.00248 | PASS |
| | | HCH | TN | VL | -4.43 | -0.00254 | PASS |
| | | | | VN | -7.91 | -0.00453 | PASS |
| | | | | VH | -2.44 | -0.00140 | PASS |
| | LTE/TM2 20MHz | LCH | TN | VL | 2.35 | 0.00137 | PASS |
| | | | | VN | -1.20 | -0.00070 | PASS |
| | | | | VH | 4.46 | 0.00259 | PASS |
| | | MCH | TN | VL | 4.41 | 0.00255 | PASS |
| | | | | VN | 2.30 | 0.00133 | PASS |
| | | | | VH | -0.98 | -0.00057 | PASS |
| | | HCH | TN | VL | 4.24 | 0.00243 | PASS |
| | | | | VN | -3.65 | -0.00209 | PASS |
| | | | | VH | -1.12 | -0.00064 | PASS |



8.2 Frequency Error VS. Temperature

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|---------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTEband4 | LTE/TM1 20MHz | LCH | VN | -30 | -5.71 | -0.00332 | PASS |
| | | | | -20 | -3.85 | -0.00224 | PASS |
| | | | | -10 | -2.50 | -0.00145 | PASS |
| | | | | 0 | -5.42 | -0.00315 | PASS |
| | | | | 10 | -2.89 | -0.00168 | PASS |
| | | | | 20 | -1.80 | -0.00105 | PASS |
| | | | | 30 | -3.35 | -0.00195 | PASS |
| | | | | 40 | -2.29 | -0.00133 | PASS |
| | | | | 50 | -6.44 | -0.00374 | PASS |
| | | MCH | VN | -30 | -2.39 | -0.00138 | PASS |
| | | | | -20 | 4.23 | 0.00244 | PASS |
| | | | | -10 | 1.64 | 0.00095 | PASS |
| | | | | 0 | 2.08 | 0.00120 | PASS |
| | | | | 10 | -0.35 | -0.00020 | PASS |
| | | | | 20 | -4.14 | -0.00239 | PASS |
| | | | | 30 | 4.23 | 0.00244 | PASS |
| | | | | 40 | 2.60 | 0.00150 | PASS |
| | | | | 50 | -1.55 | -0.00089 | PASS |
| | | HCH | VN | -30 | 1.31 | 0.00075 | PASS |
| | | | | -20 | -4.45 | -0.00255 | PASS |
| | | | | -10 | -7.37 | -0.00422 | PASS |
| | | | | 0 | -5.20 | -0.00298 | PASS |
| | | | | 10 | 2.61 | 0.00150 | PASS |
| | | | | 20 | -2.23 | -0.00128 | PASS |
| | | | | 30 | 3.68 | 0.00211 | PASS |
| | | | | 40 | -2.05 | -0.00117 | PASS |
| | | | | 50 | -6.02 | -0.00345 | PASS |



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| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|---------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTEband4 | LTE/TM2 20MHz | LCH | VN | -30 | -3.40 | -0.00198 | PASS |
| | | | | -20 | -1.34 | -0.00078 | PASS |
| | | | | -10 | 2.38 | 0.00138 | PASS |
| | | | | 0 | 1.75 | 0.00102 | PASS |
| | | | | 10 | 3.65 | 0.00212 | PASS |
| | | | | 20 | 0.91 | 0.00053 | PASS |
| | | | | 30 | -5.31 | -0.00309 | PASS |
| | | | | 40 | -0.14 | -0.00008 | PASS |
| | | | | 50 | 2.59 | 0.00151 | PASS |
| | | MCH | VN | -30 | -2.80 | -0.00162 | PASS |
| | | | | -20 | -5.95 | -0.00343 | PASS |
| | | | | -10 | -7.49 | -0.00432 | PASS |
| | | | | 0 | -3.62 | -0.00209 | PASS |
| | | | | 10 | -1.04 | -0.00060 | PASS |
| | | | | 20 | -4.33 | -0.00250 | PASS |
| | | | | 30 | -5.66 | -0.00327 | PASS |
| | | | | 40 | -5.89 | -0.00340 | PASS |
| | | | | 50 | -2.92 | -0.00169 | PASS |
| | | HCH | VN | -30 | 3.54 | 0.00203 | PASS |
| | | | | -20 | -1.49 | -0.00085 | PASS |
| | | | | -10 | 2.53 | 0.00145 | PASS |
| | | | | 0 | -4.83 | -0.00277 | PASS |
| | | | | 10 | 2.60 | 0.00149 | PASS |
| | | | | 20 | -3.57 | -0.00205 | PASS |
| | | | | 30 | -2.66 | -0.00152 | PASS |
| | | | | 40 | -5.43 | -0.00311 | PASS |
| | | | | 50 | -8.22 | -0.00471 | PASS |

The End