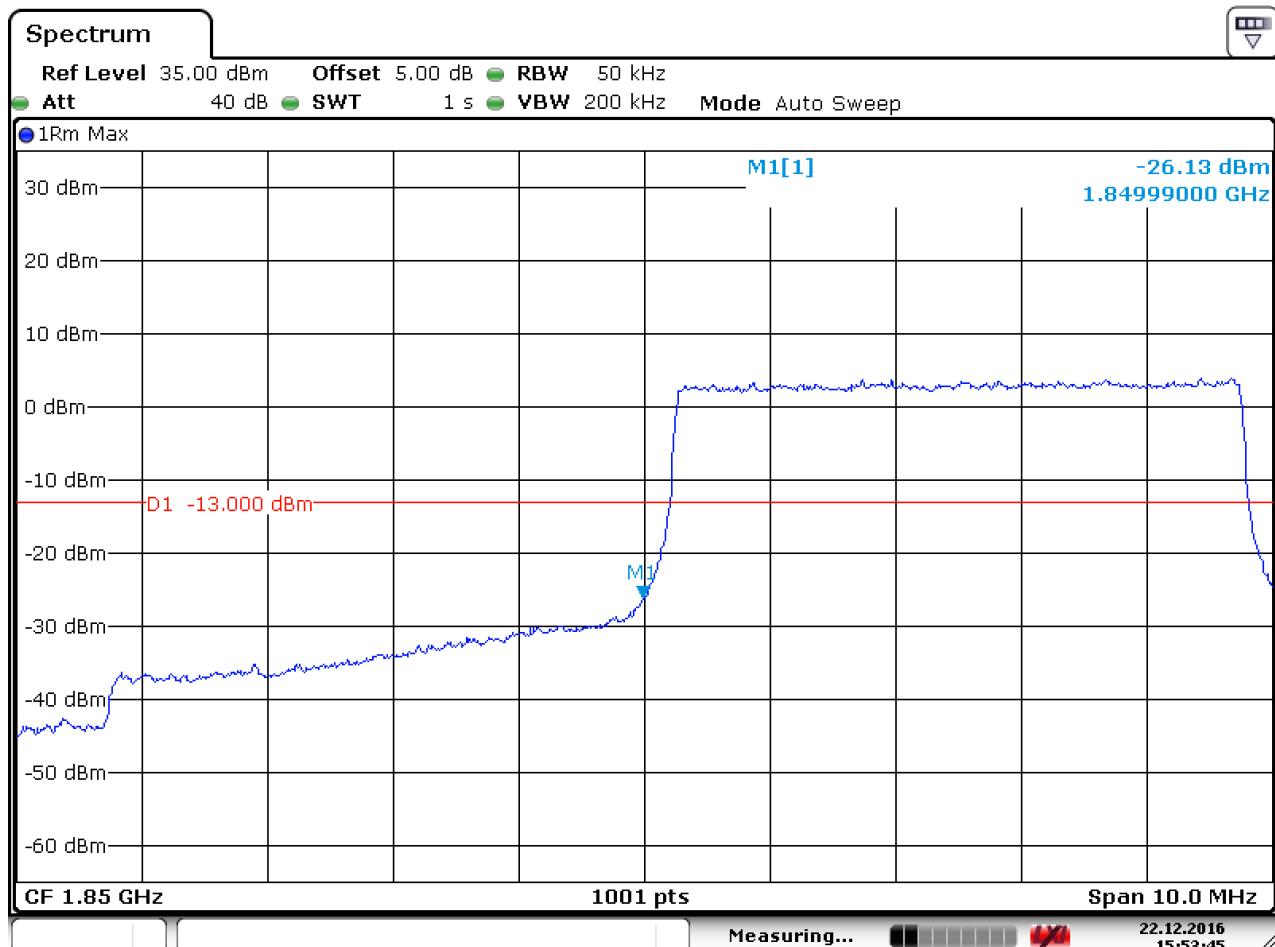
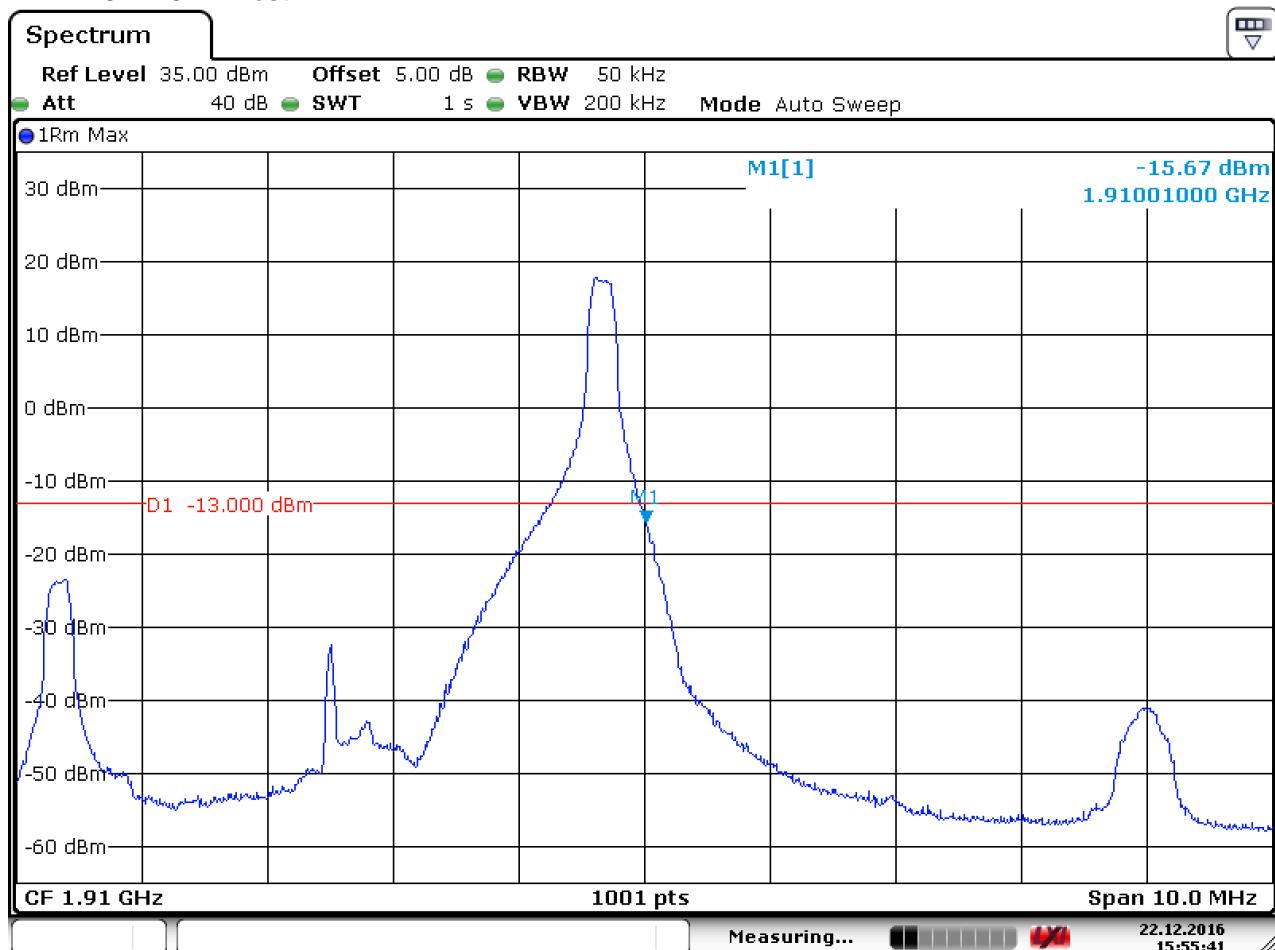


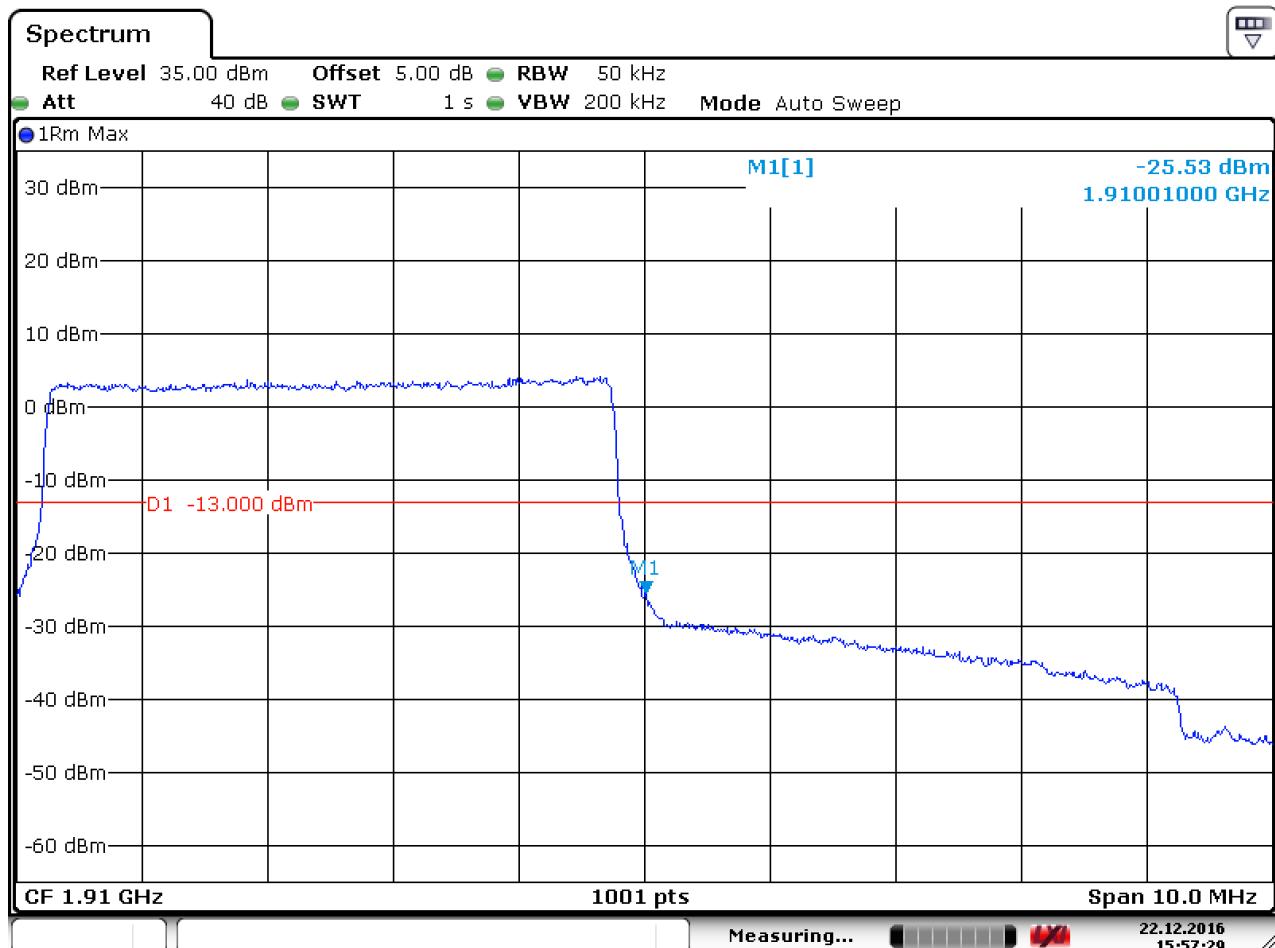
5.1.1.5.1.2 Test RB=25RB



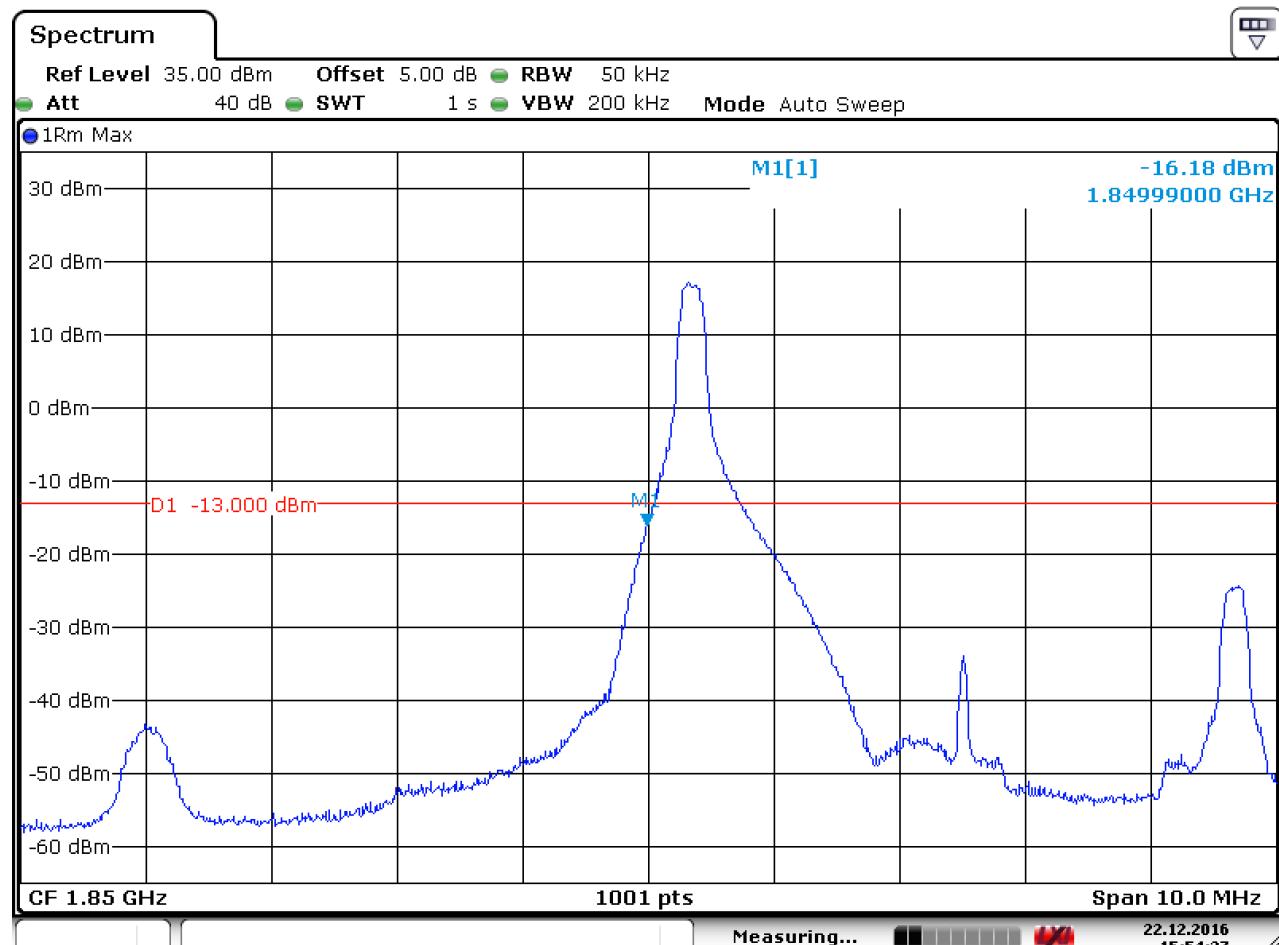
Date: 22.DEC.2016 15:53:45

5.1.1.5.2 Test Channel = HCH**5.1.1.5.2.1 Test RB=1RB**

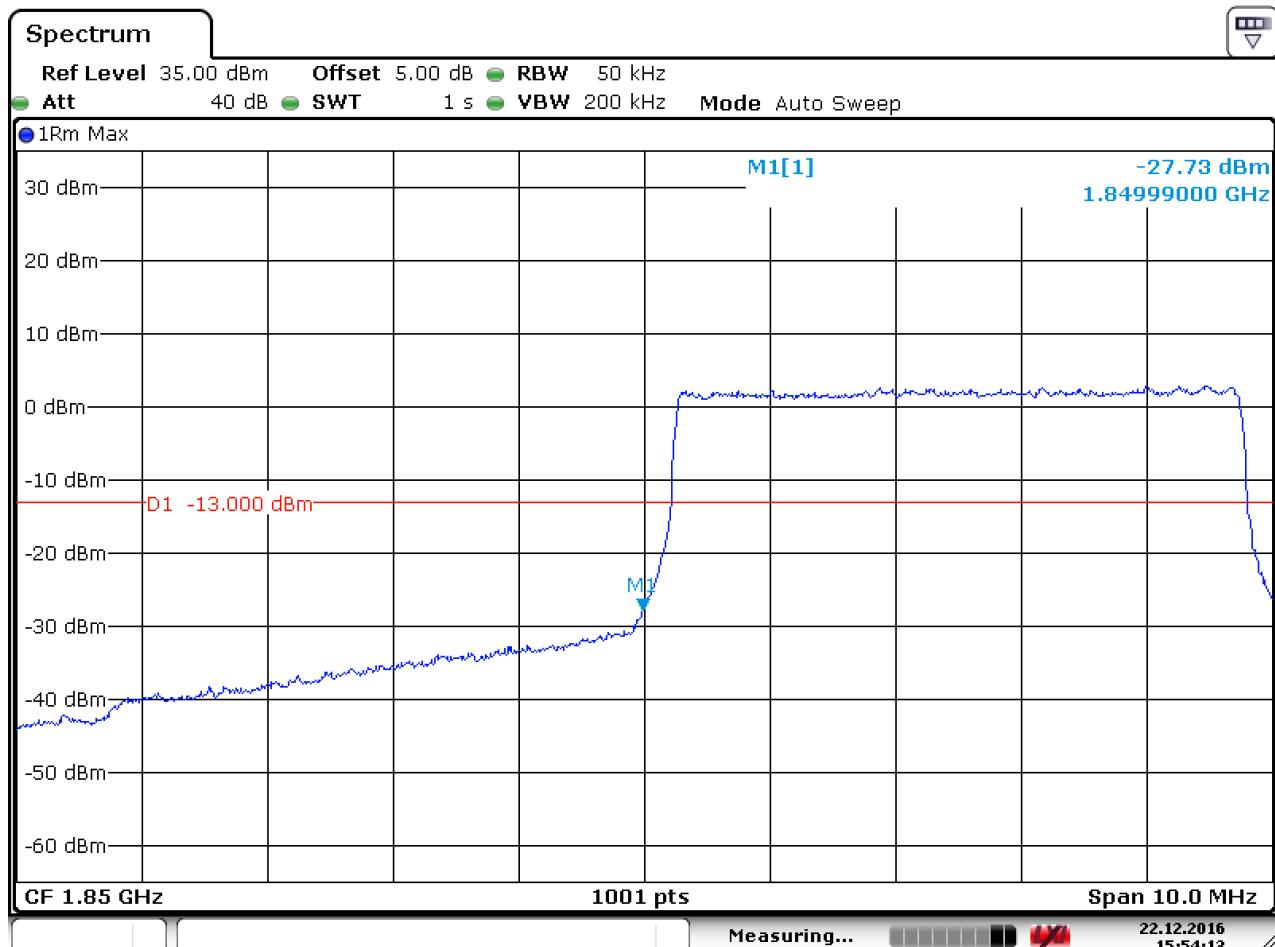
Date: 22.DEC.2016 15:55:42

5.1.1.5.2.2 Test RB=25RB

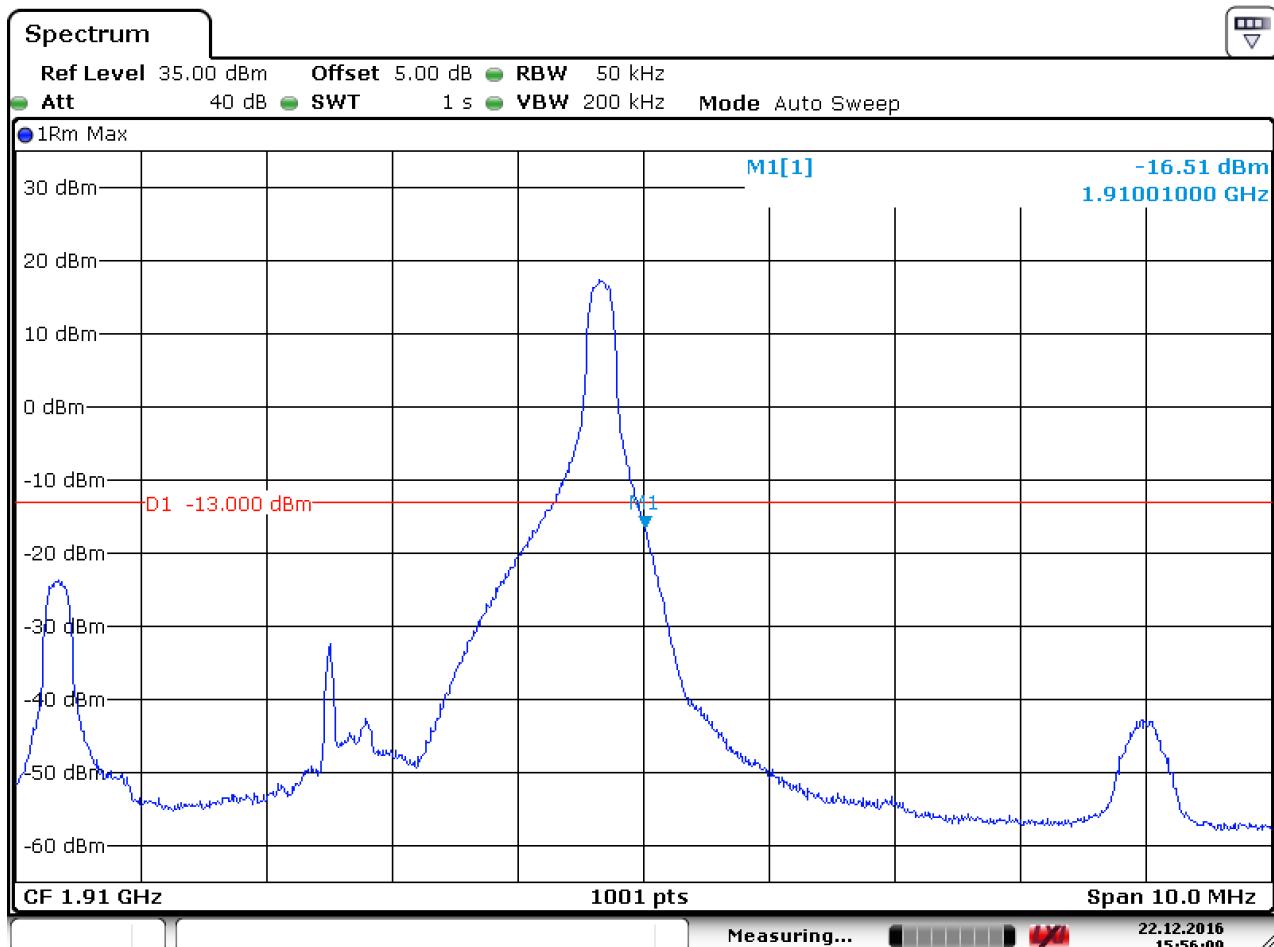
Date: 22.DEC.2016 15:57:29

5.1.1.6 Test Mode = LTE/TM2 5MHz**5.1.1.6.1 Test Channel = LCH****5.1.1.6.1.1 Test RB=1RB**

Date: 22.DEC.2016 15:54:38

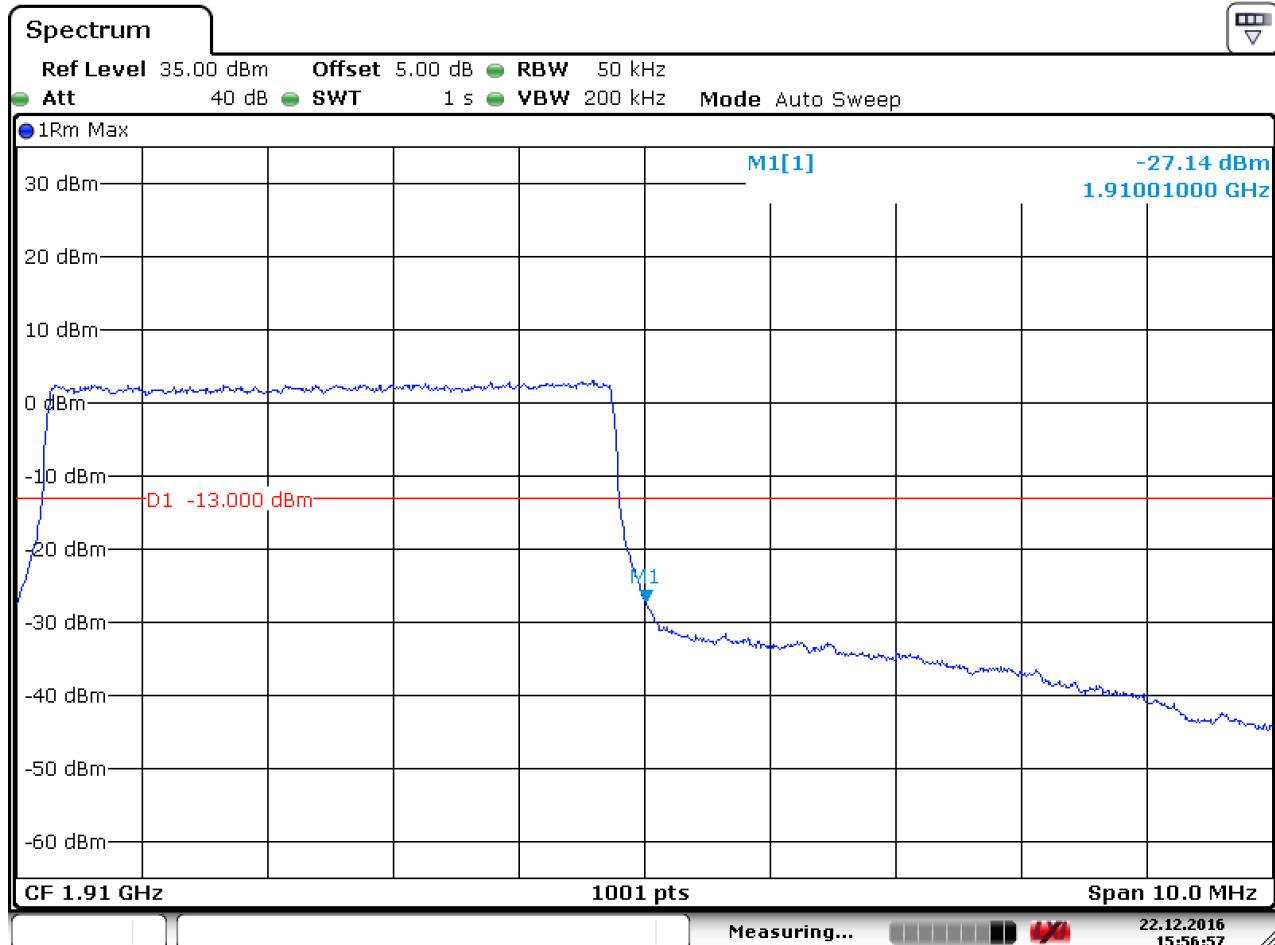
5.1.1.6.1.2 Test RB=25RB

Date: 22.DEC.2016 15:54:13

5.1.1.6.2 Test Channel = HCH**5.1.1.6.2.1 Test RB=1RB**

Date: 22.DEC.2016 15:56:09

5.1.1.6.2.2 Test RB=25RB

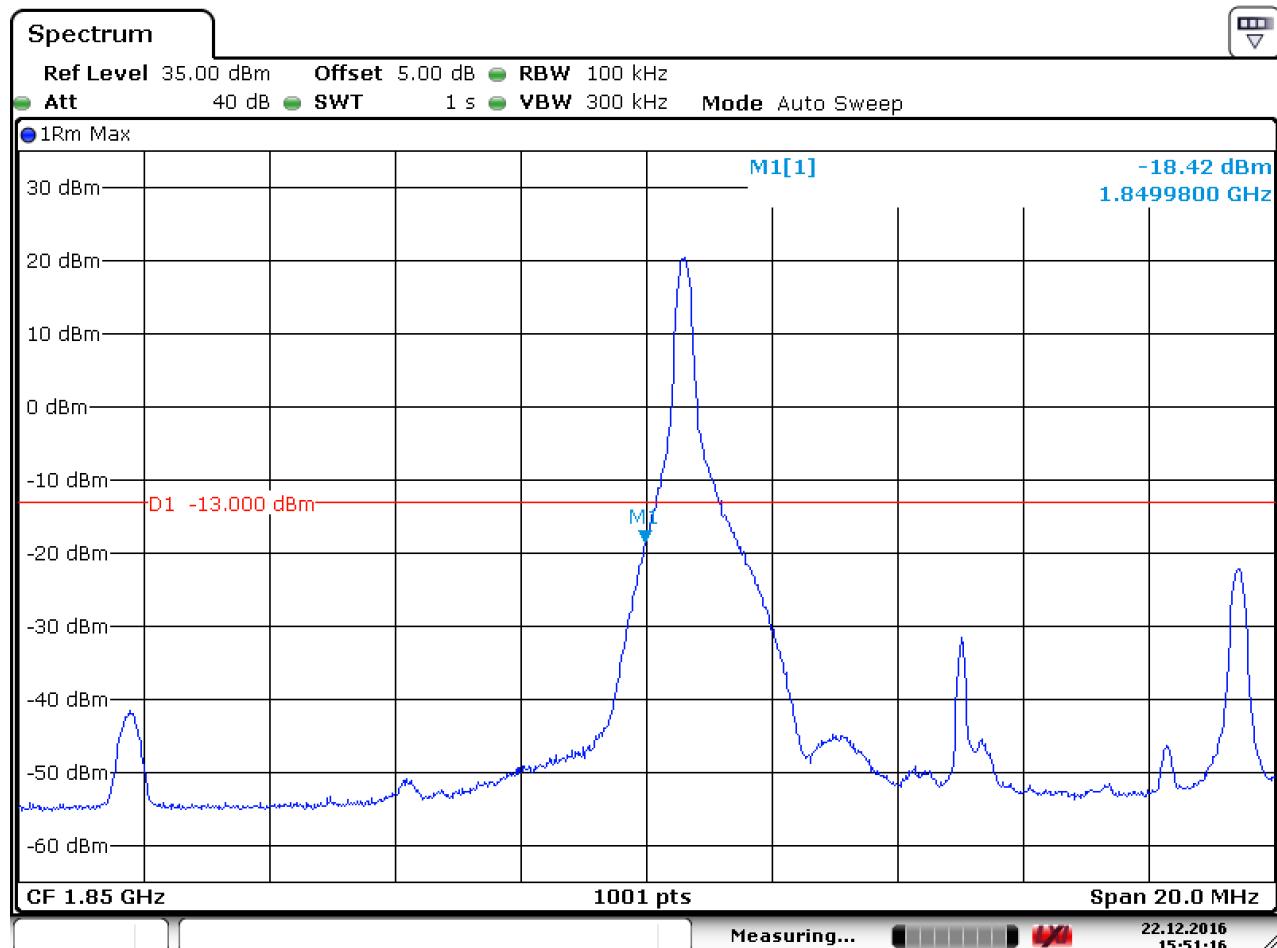


Date: 22.DEC.2016 15:56:58

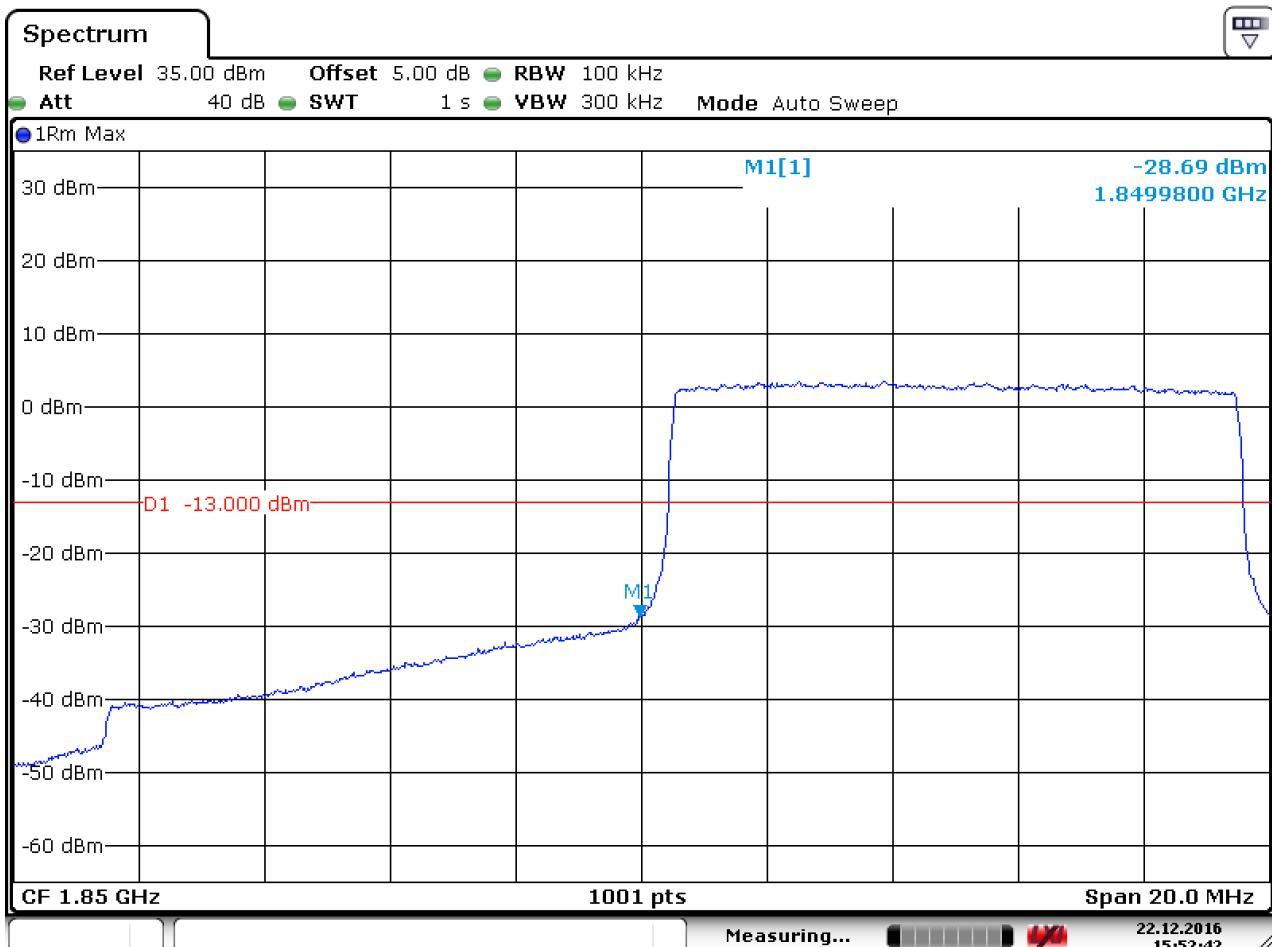
5.1.1.7 Test Mode = LTE/TM1 10MHz

5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB

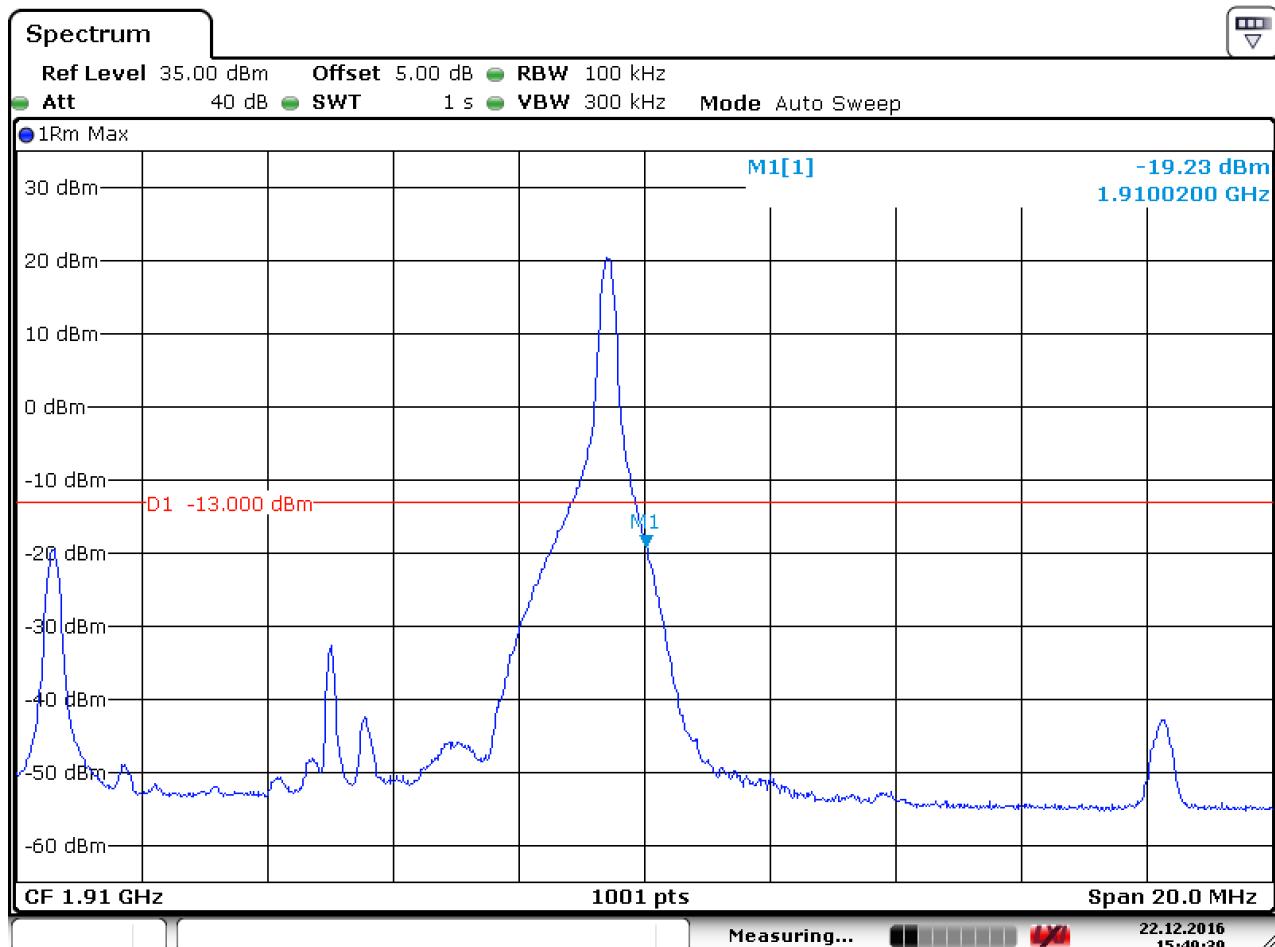


Date: 22.DEC.2016 15:51:16

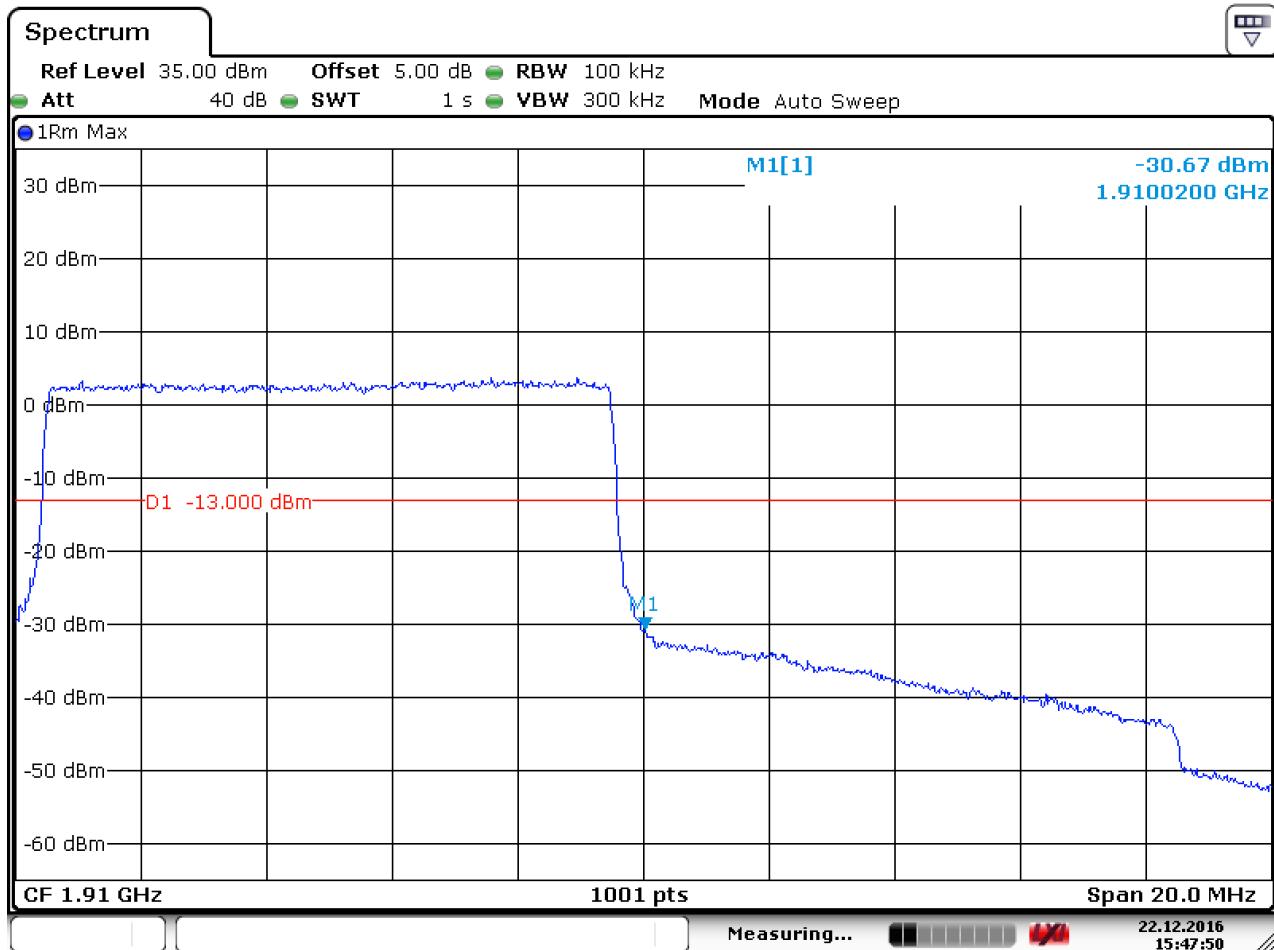
5.1.1.7.1.2 Test RB=50RB

Date: 22.DEC.2016 15:52:43

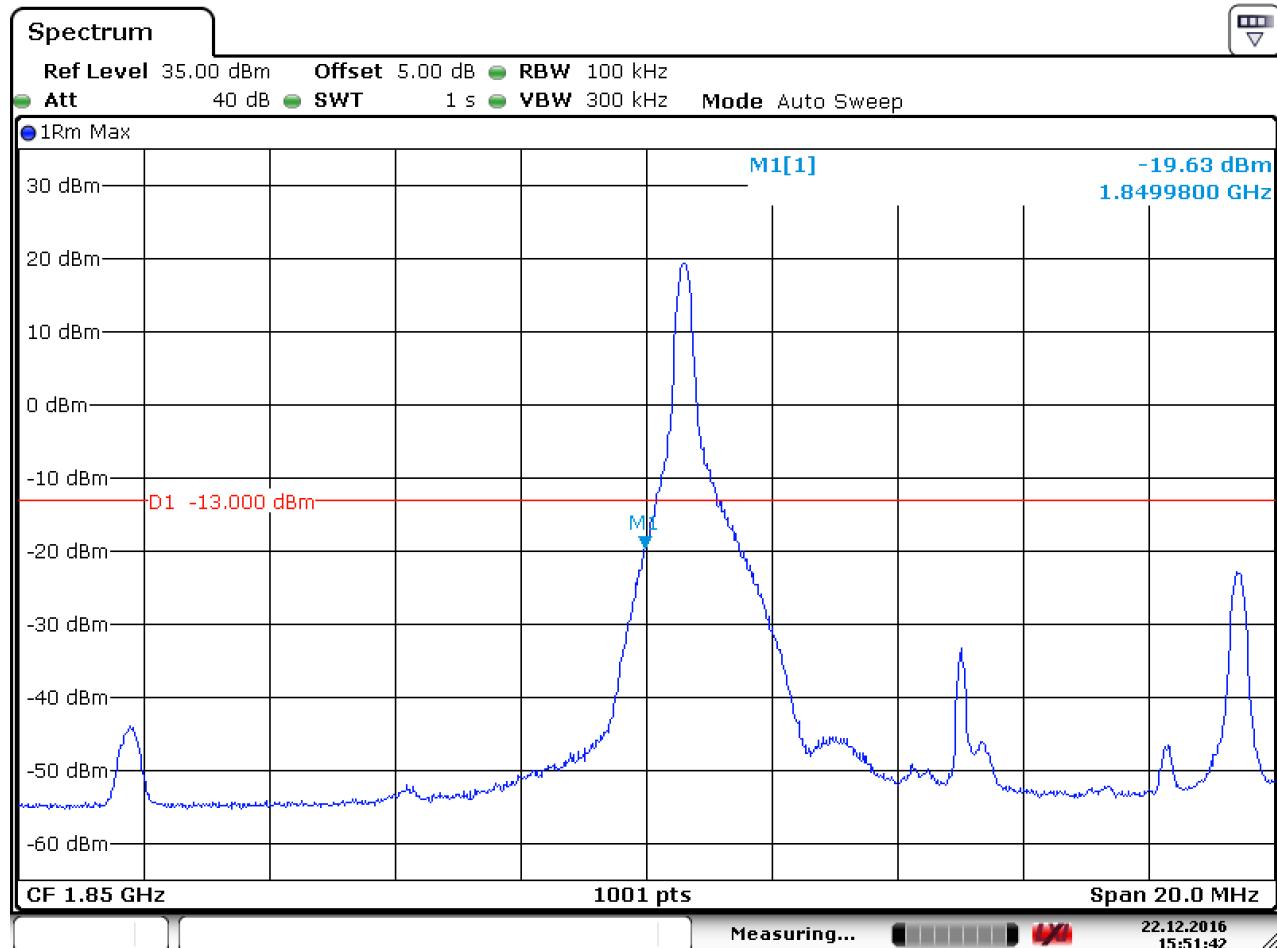
22.12.2016
15:52:42

5.1.1.7.2 Test Channel = HCH**5.1.1.7.2.1 Test RB=1RB**

Date: 22.DEC.2016 15:49:40

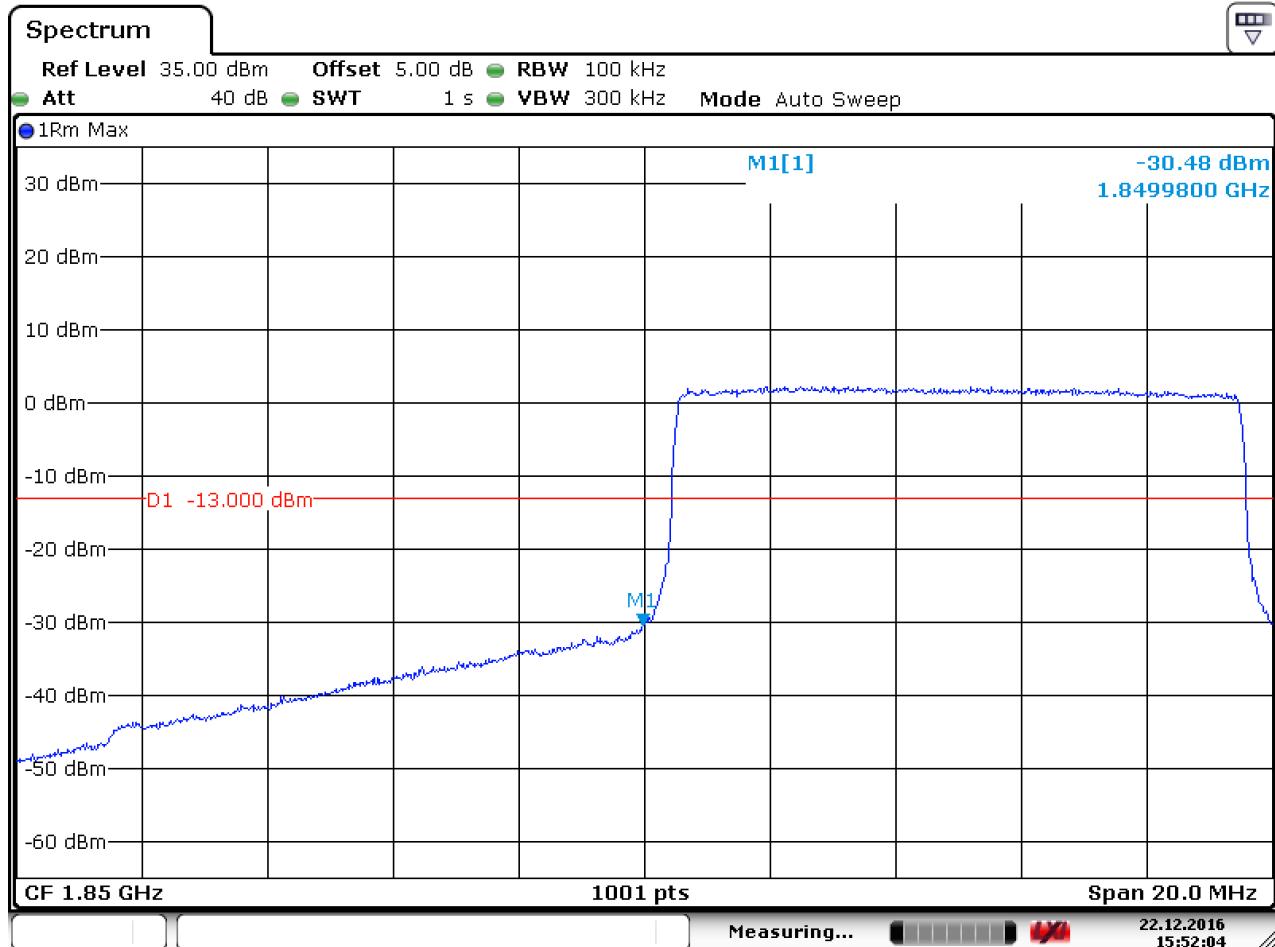
5.1.1.7.2.2 Test RB=50RB

Date: 22.DEC.2016 15:47:50

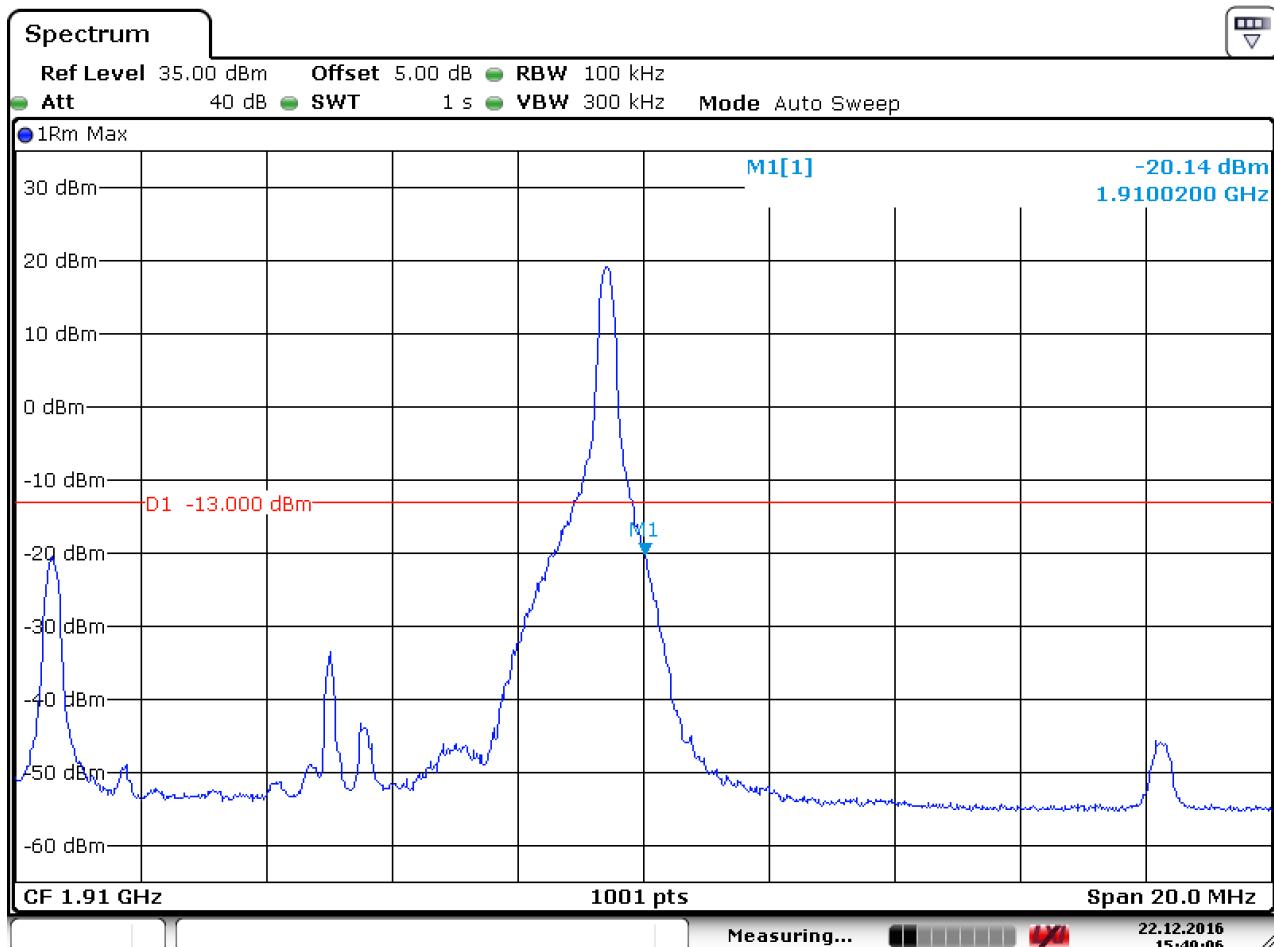
5.1.1.8 Test Mode = LTE/TM2 10MHz**5.1.1.8.1 Test Channel = LCH****5.1.1.8.1.1 Test RB=1RB**

Date: 22.DEC.2016 15:51:43

5.1.1.8.1.2 Test RB=50RB

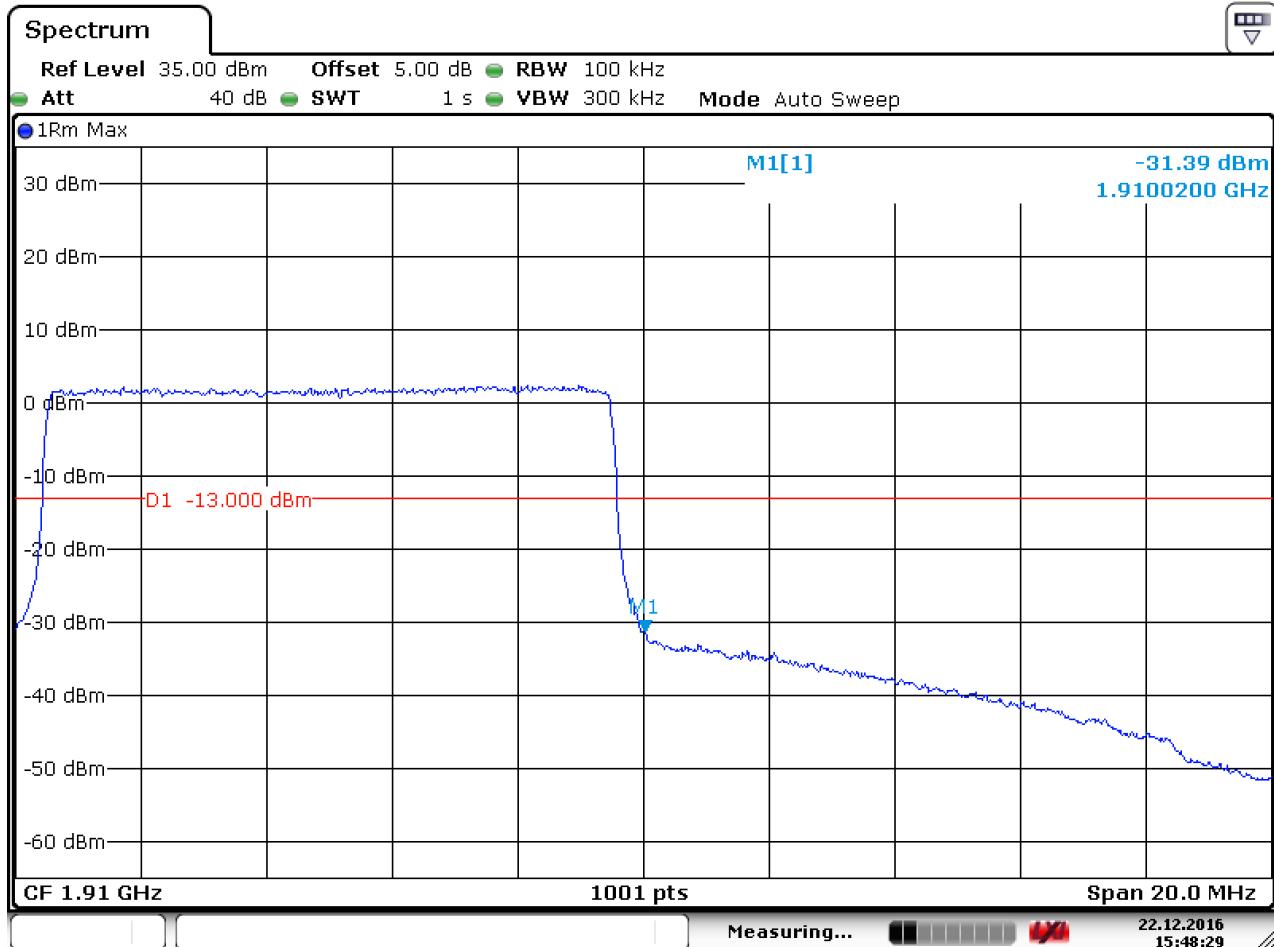


Date: 22.DEC.2016 15:52:04

5.1.1.8.2 Test Channel = HCH**5.1.1.8.2.1 Test RB=1RB**

Date: 22.DEC.2016 15:49:07

5.1.1.8.2.2 Test RB=50RB

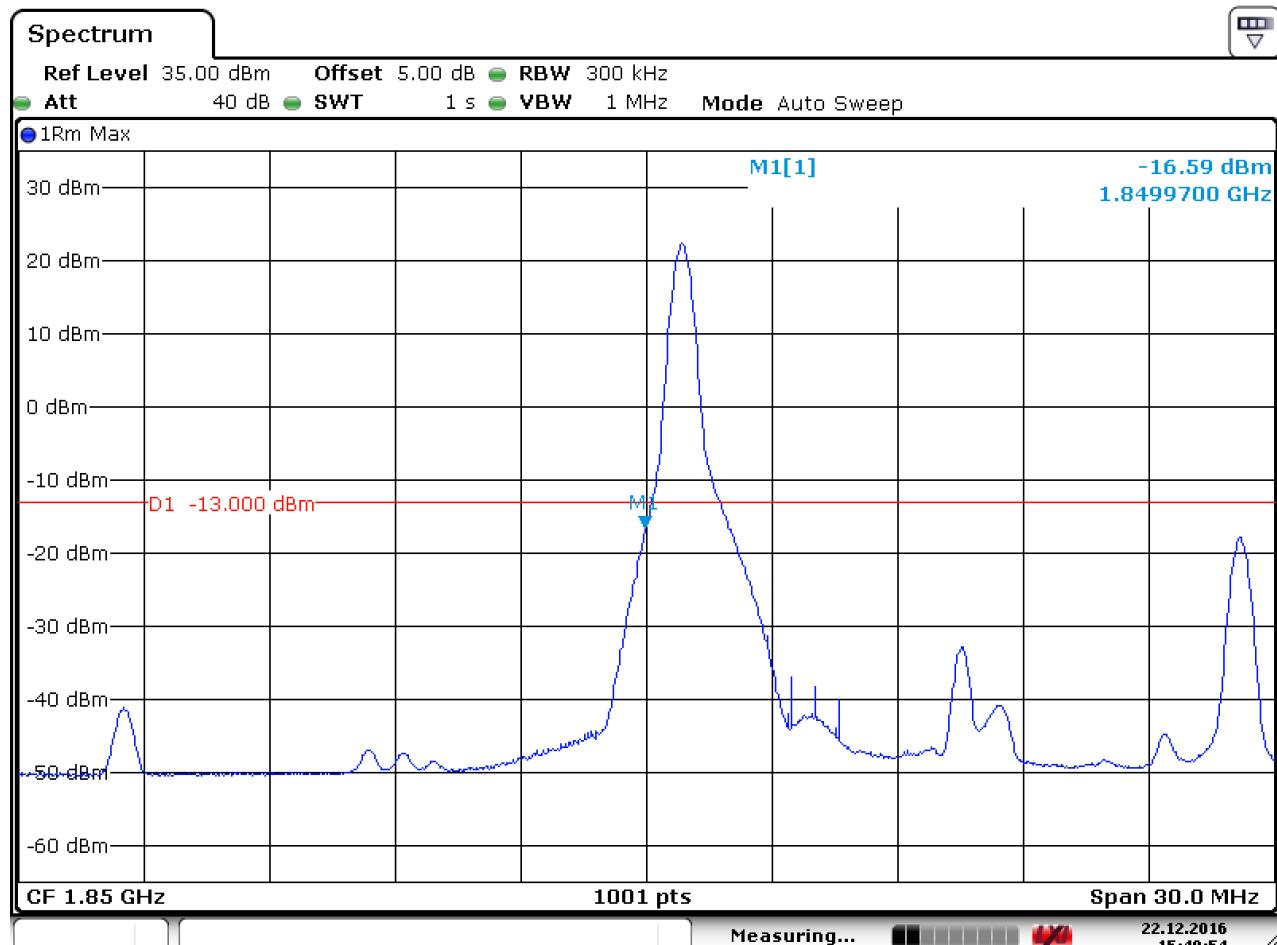


Date: 22.DEC.2016 15:48:30

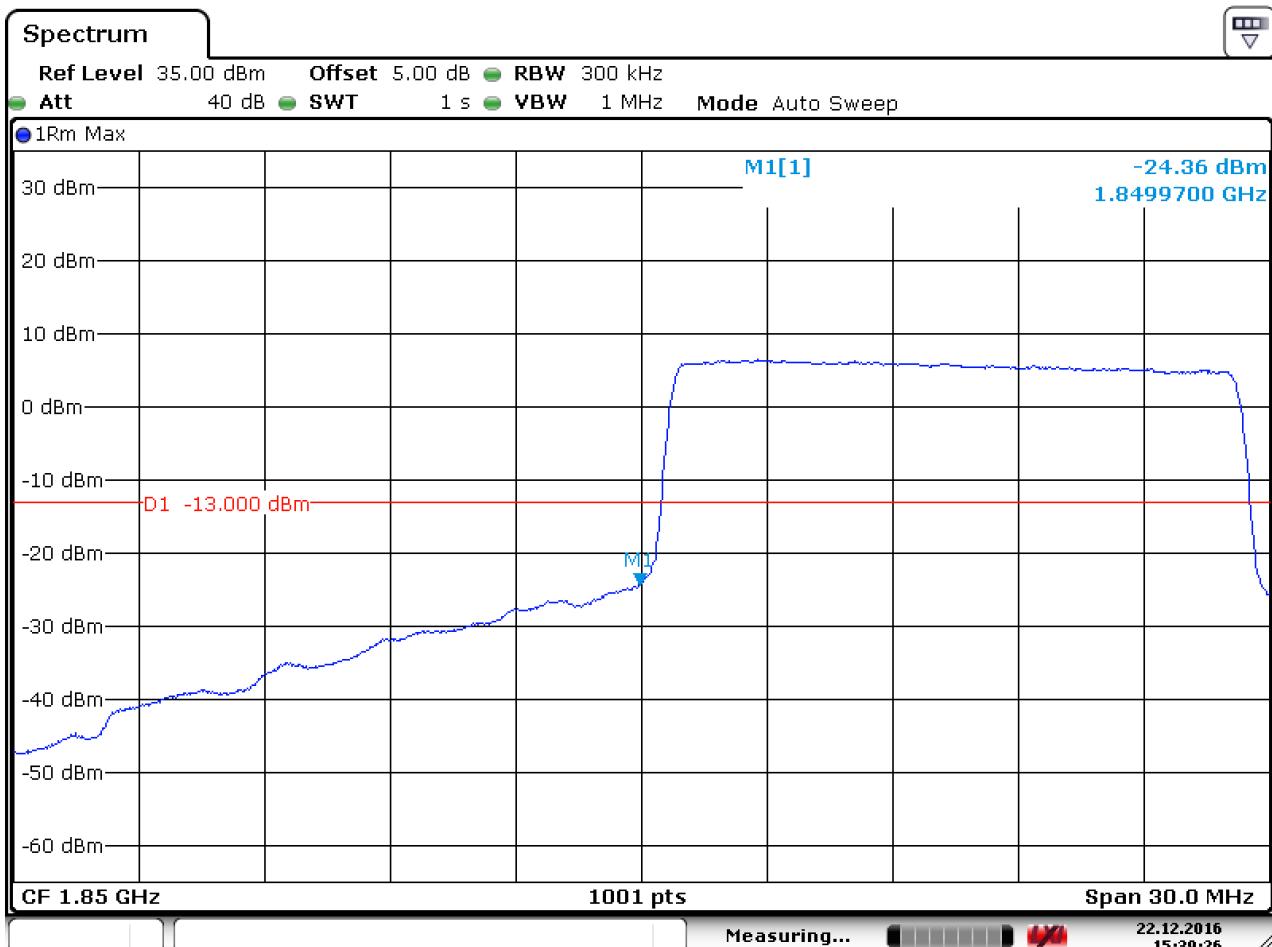
5.1.1.9 Test Mode = LTE/TM1 15MHz

5.1.1.9.1 Test Channel = LCH

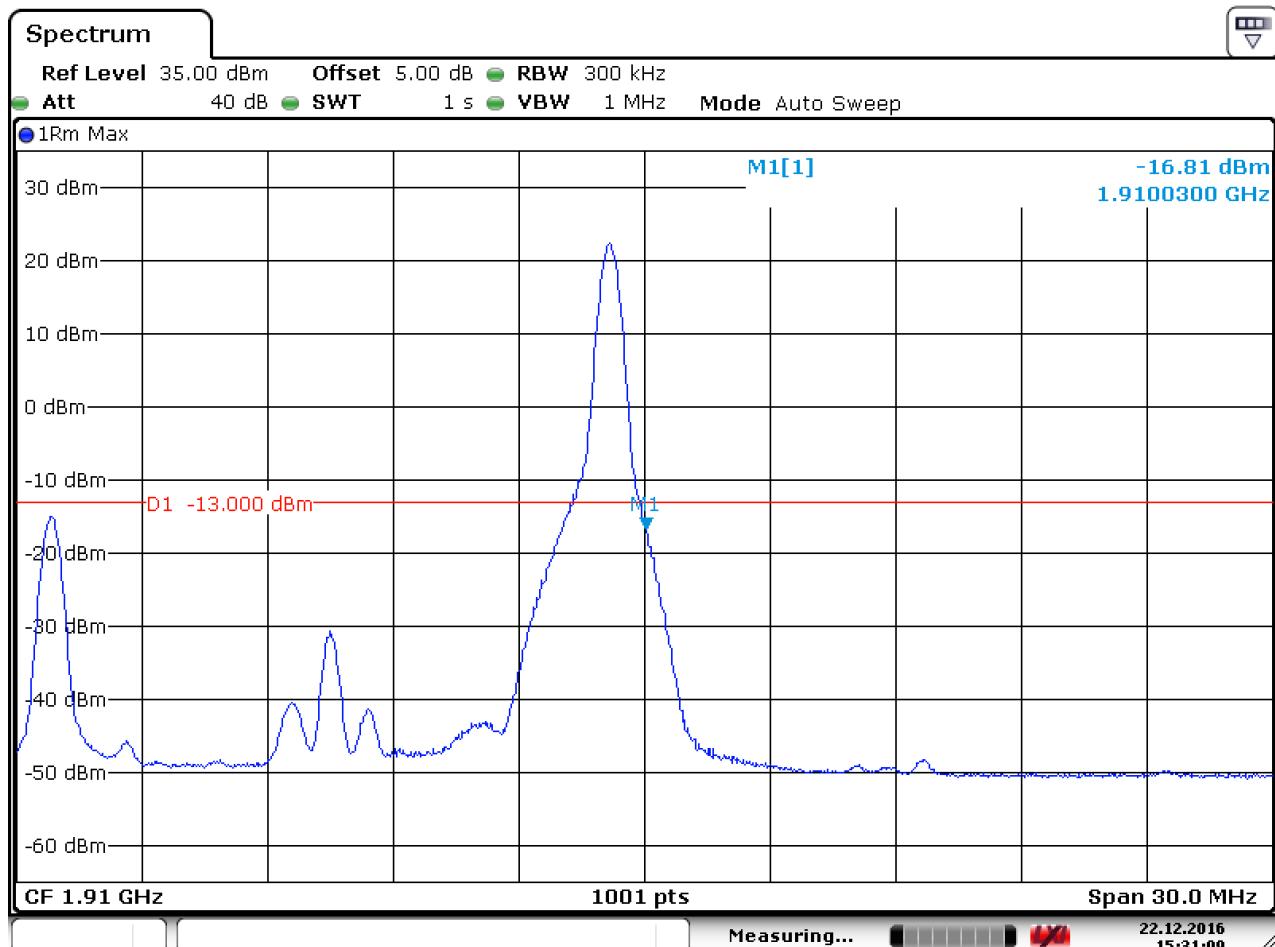
5.1.1.9.1.1 Test RB=1RB



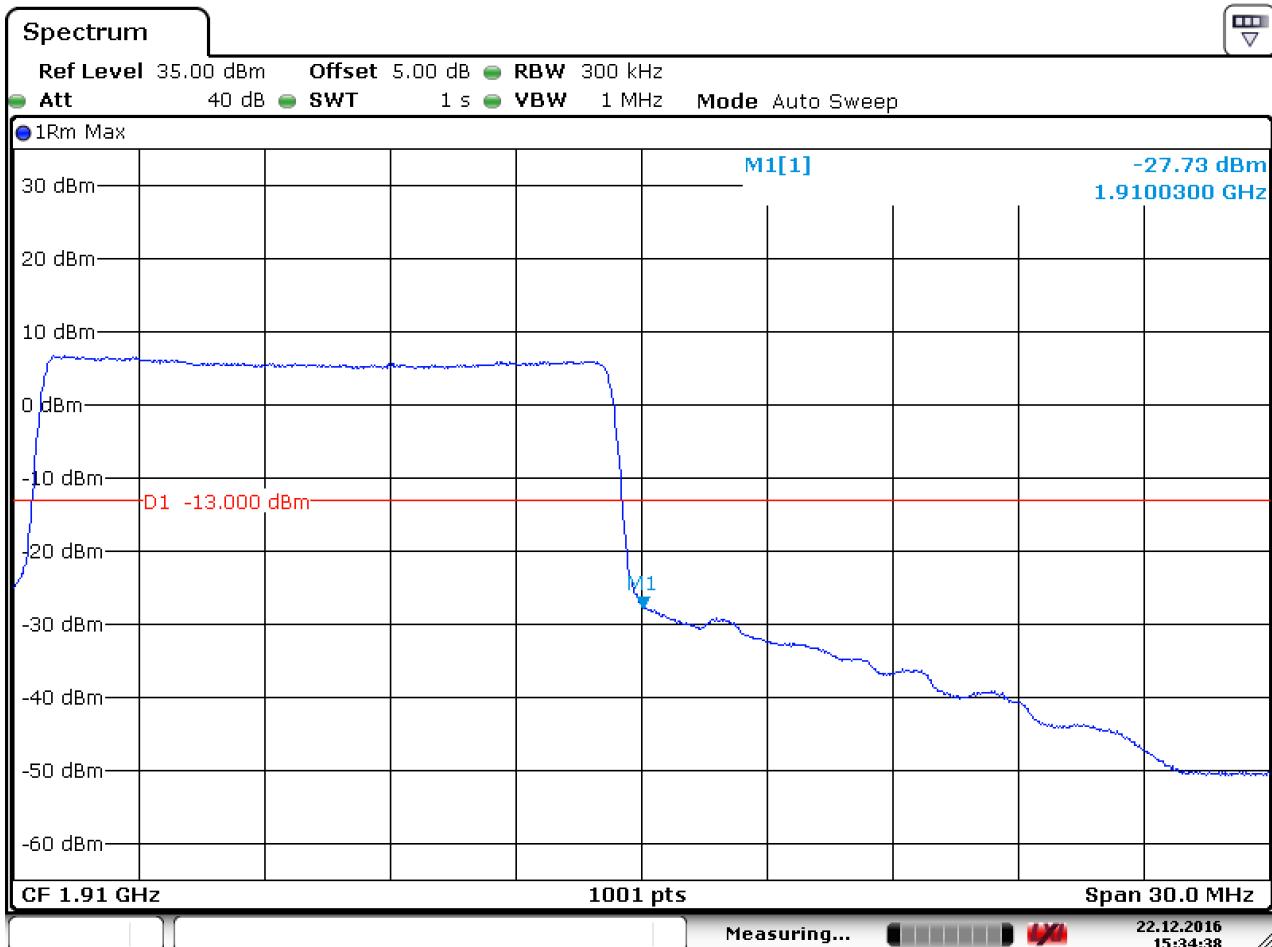
Date: 22.DEC.2016 15:40:54

5.1.1.9.1.2 Test RB=75RB

Date: 22.DEC.2016 15:39:26

5.1.1.9.2 Test Channel = HCH**5.1.1.9.2.1 Test RB=1RB**

Date: 22.DEC.2016 15:31:09

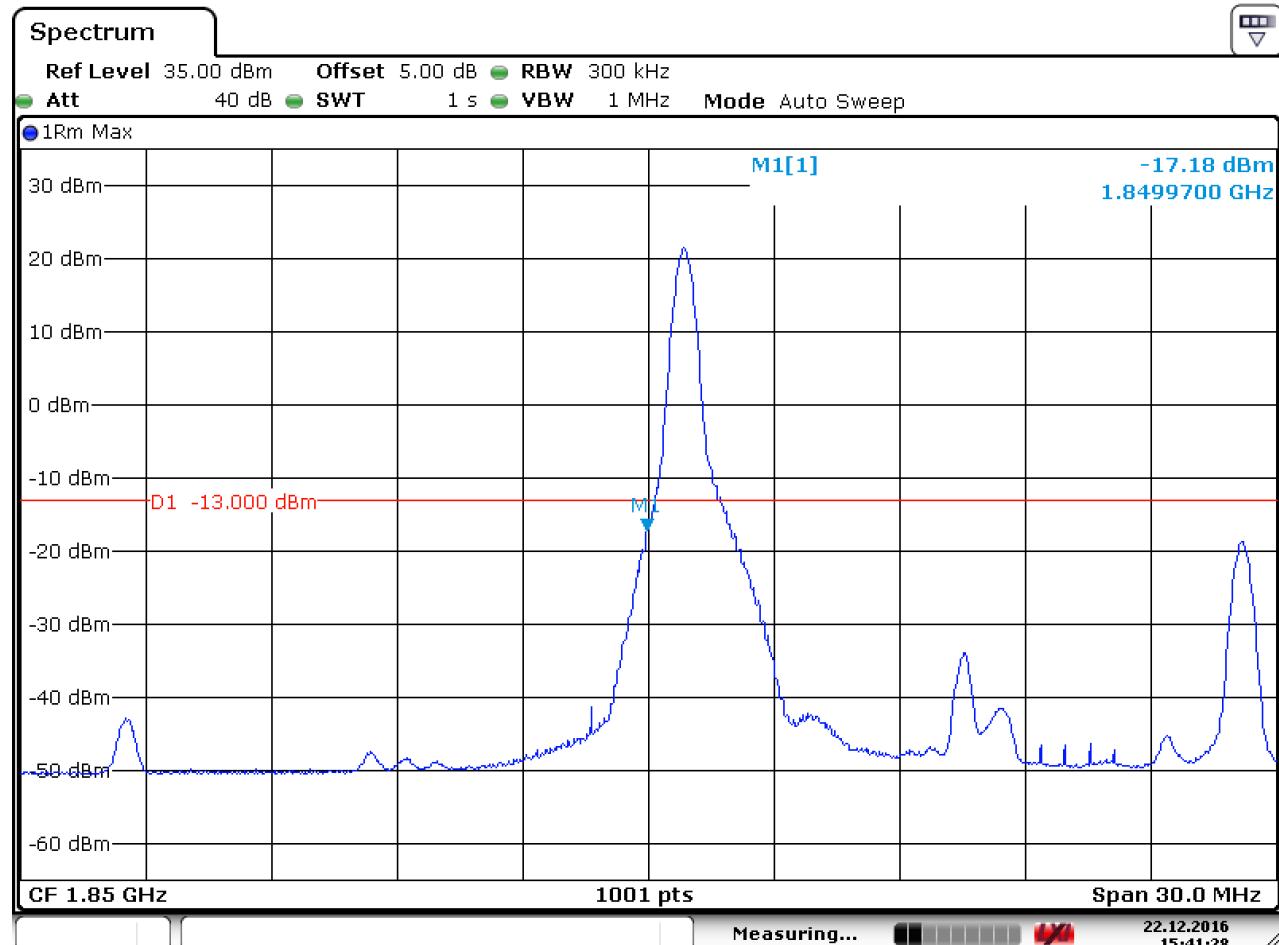
5.1.1.9.2.2 Test RB=75RB

Date: 22.DEC.2016 15:34:38

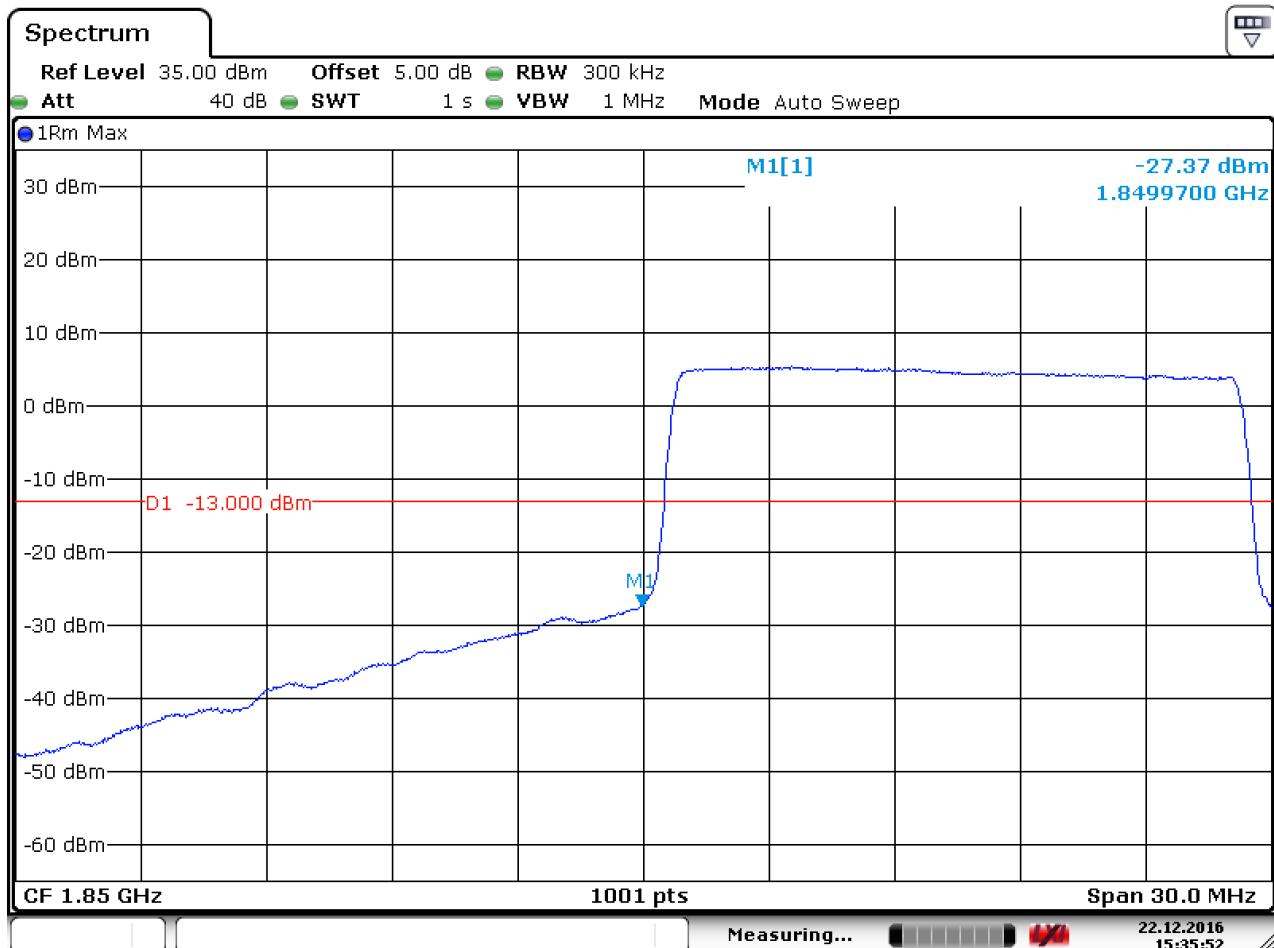
5.1.1.10 Test Mode = LTE/TM2 15MHz

5.1.1.10.1 Test Channel = LCH

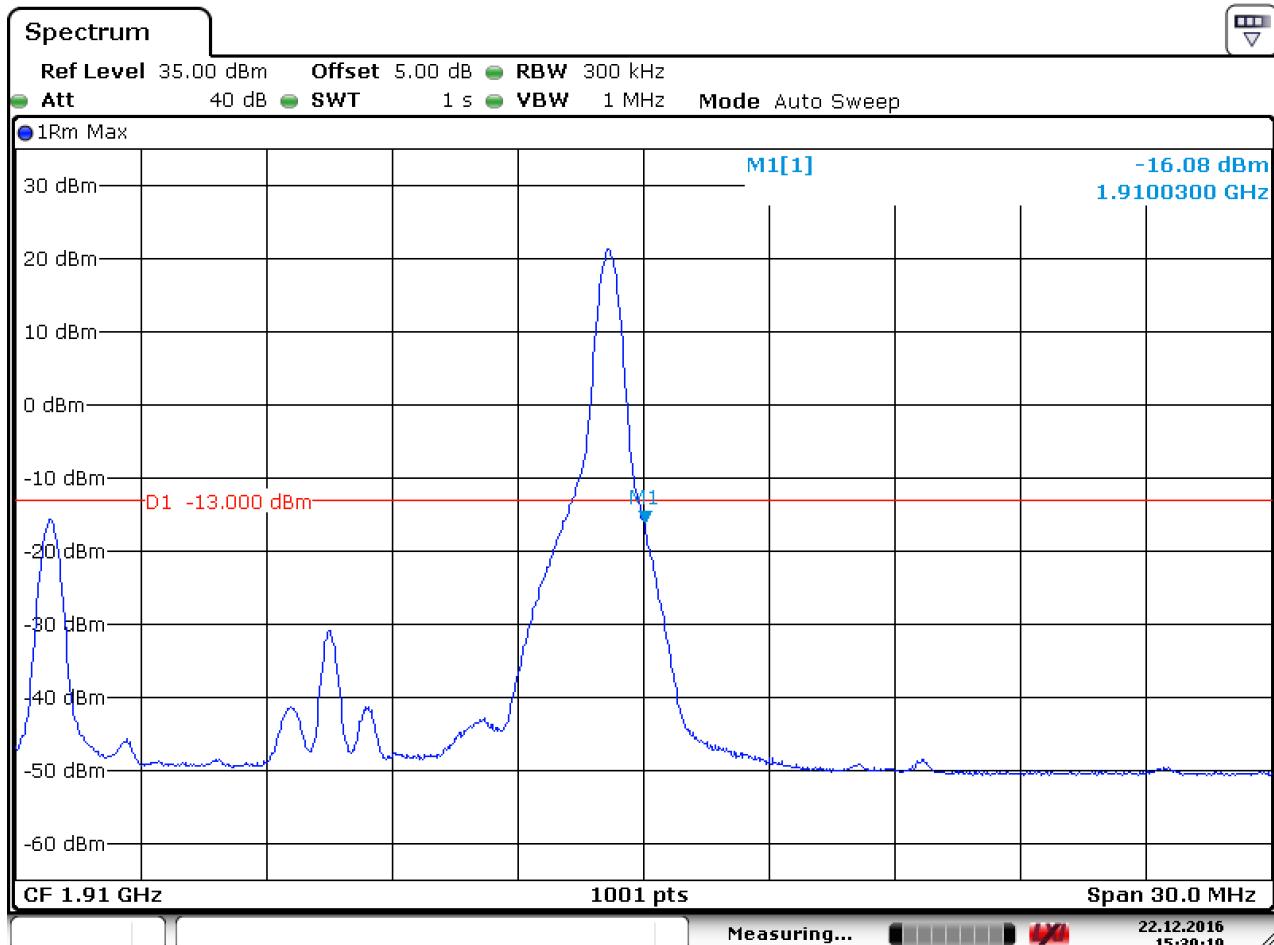
5.1.1.10.1.1 Test RB=1RB



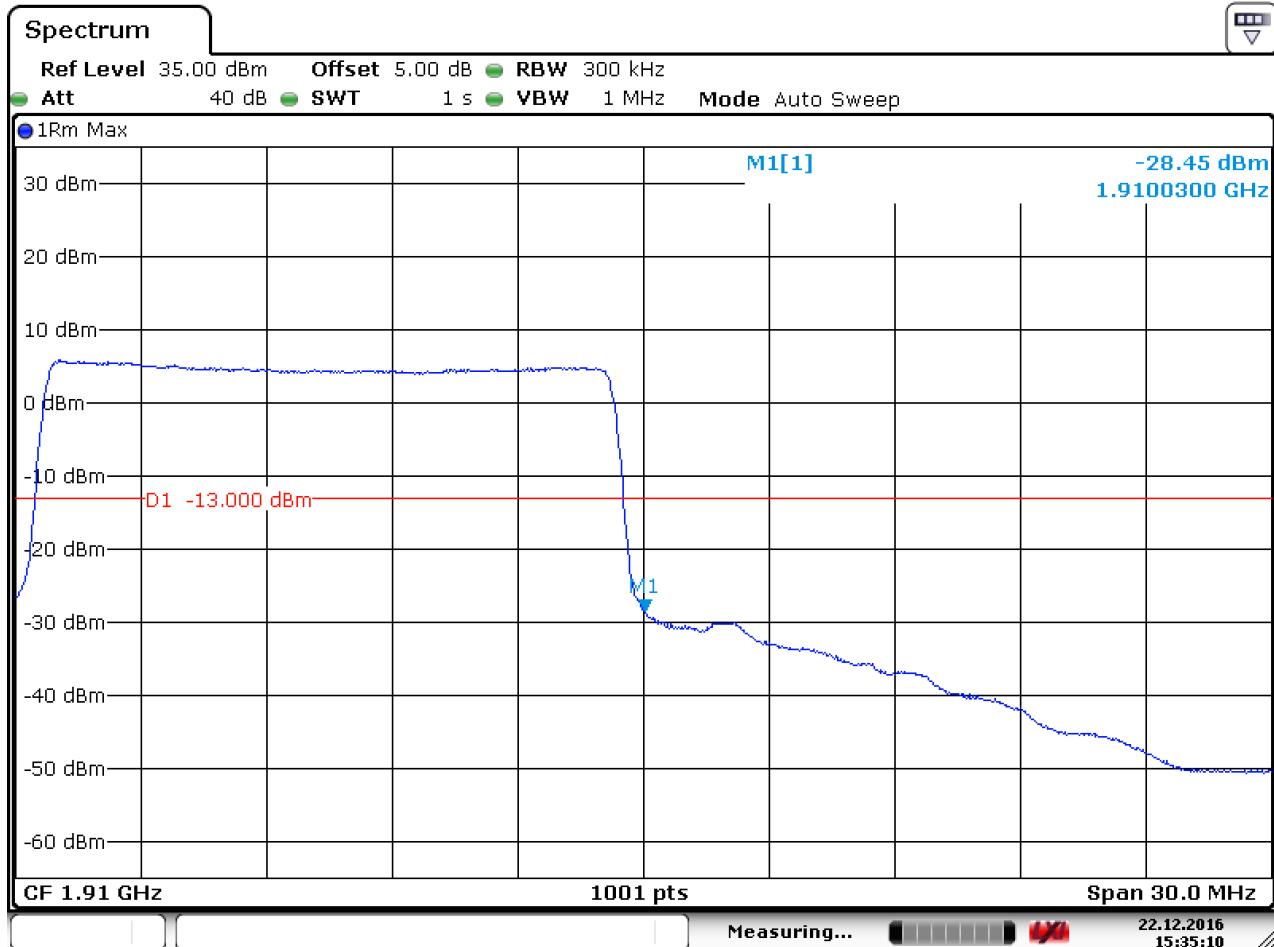
Date: 22.DEC.2016 15:41:28

5.1.1.10.1.2 Test RB=75RB

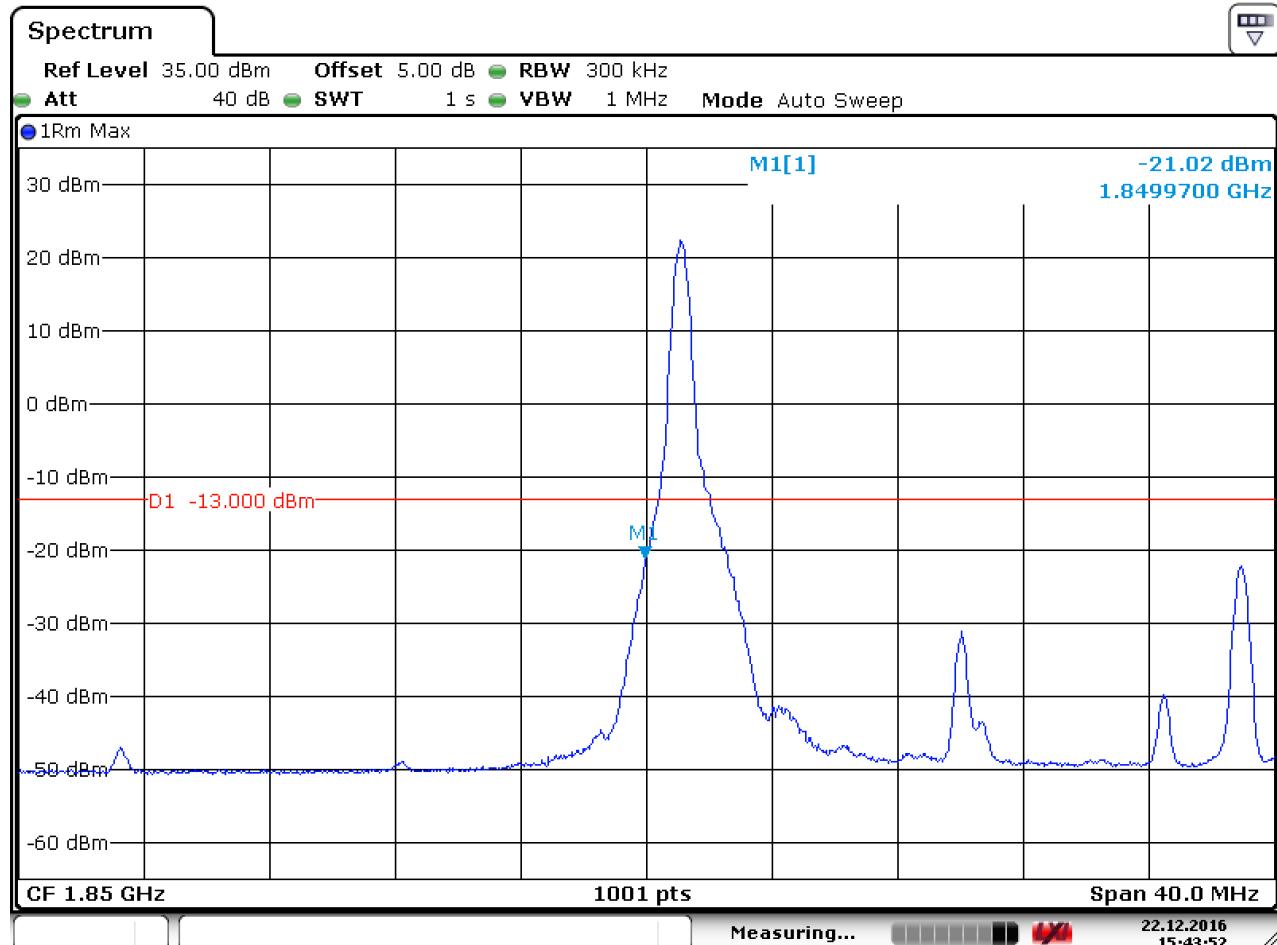
Date: 22.DEC.2016 15:35:52

5.1.1.10.2 Test Channel = HCH**5.1.1.10.2.1 Test RB=1RB**

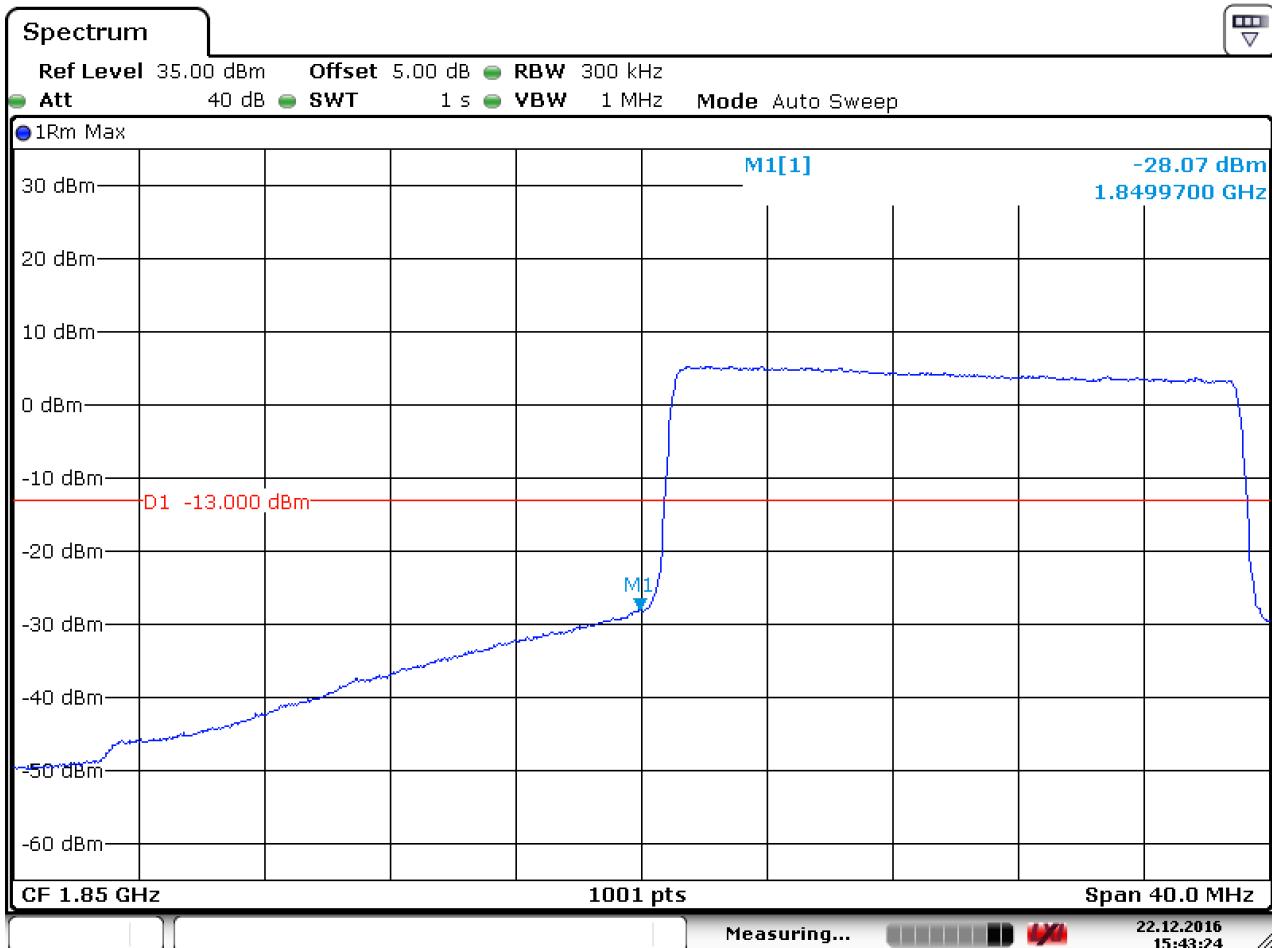
Date: 22.DEC.2016 15:30:19

5.1.1.10.2.2 Test RB=75RB

Date: 22.DEC.2016 15:35:11

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**

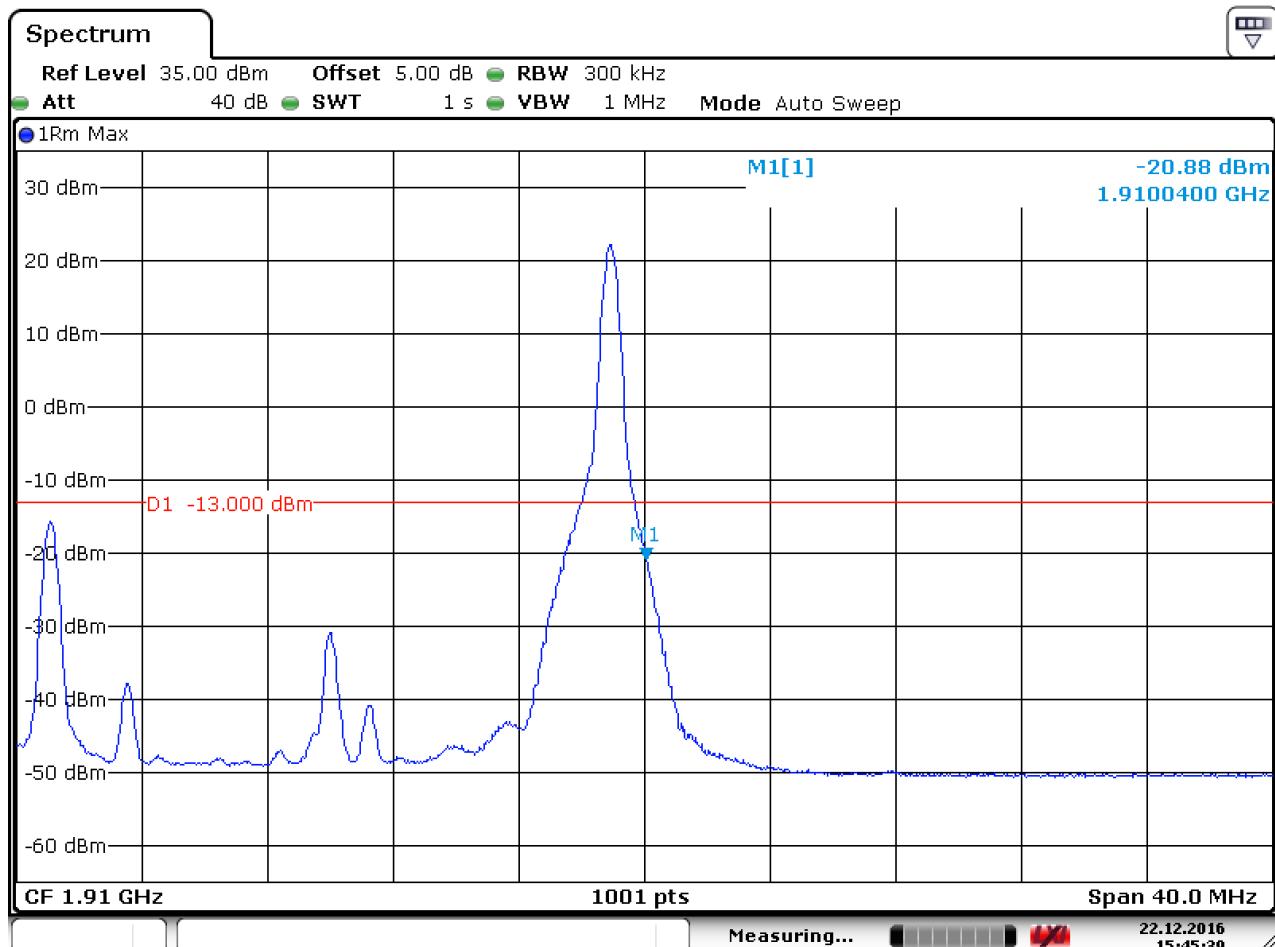
Date: 22.DEC.2016 15:43:52

5.1.1.11.1.2 Test RB=100RB

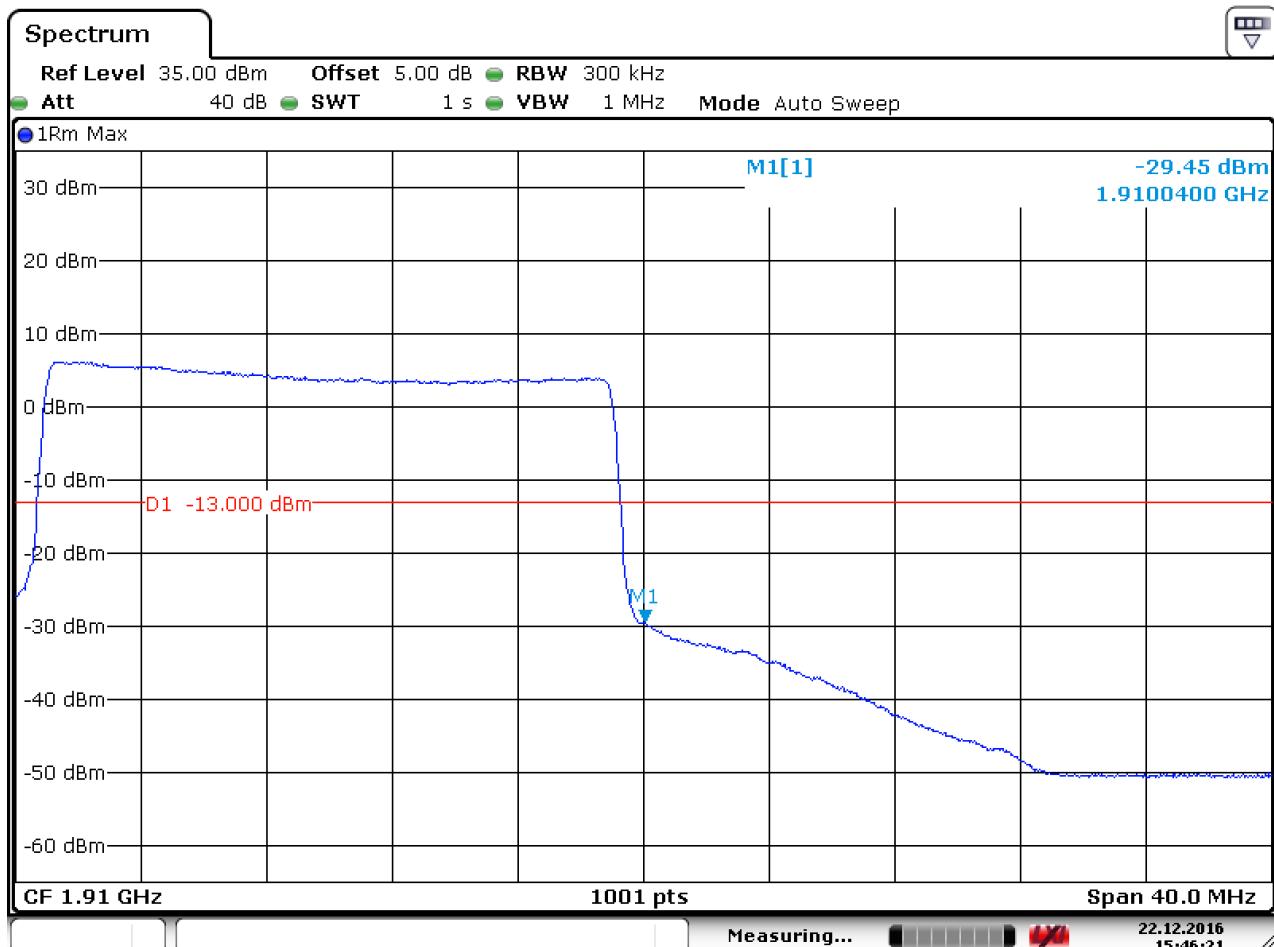
Date: 22.DEC.2016 15:43:25

5.1.1.11.2 Test Channel = HCH

5.1.1.11.2.1 Test RB=1RB

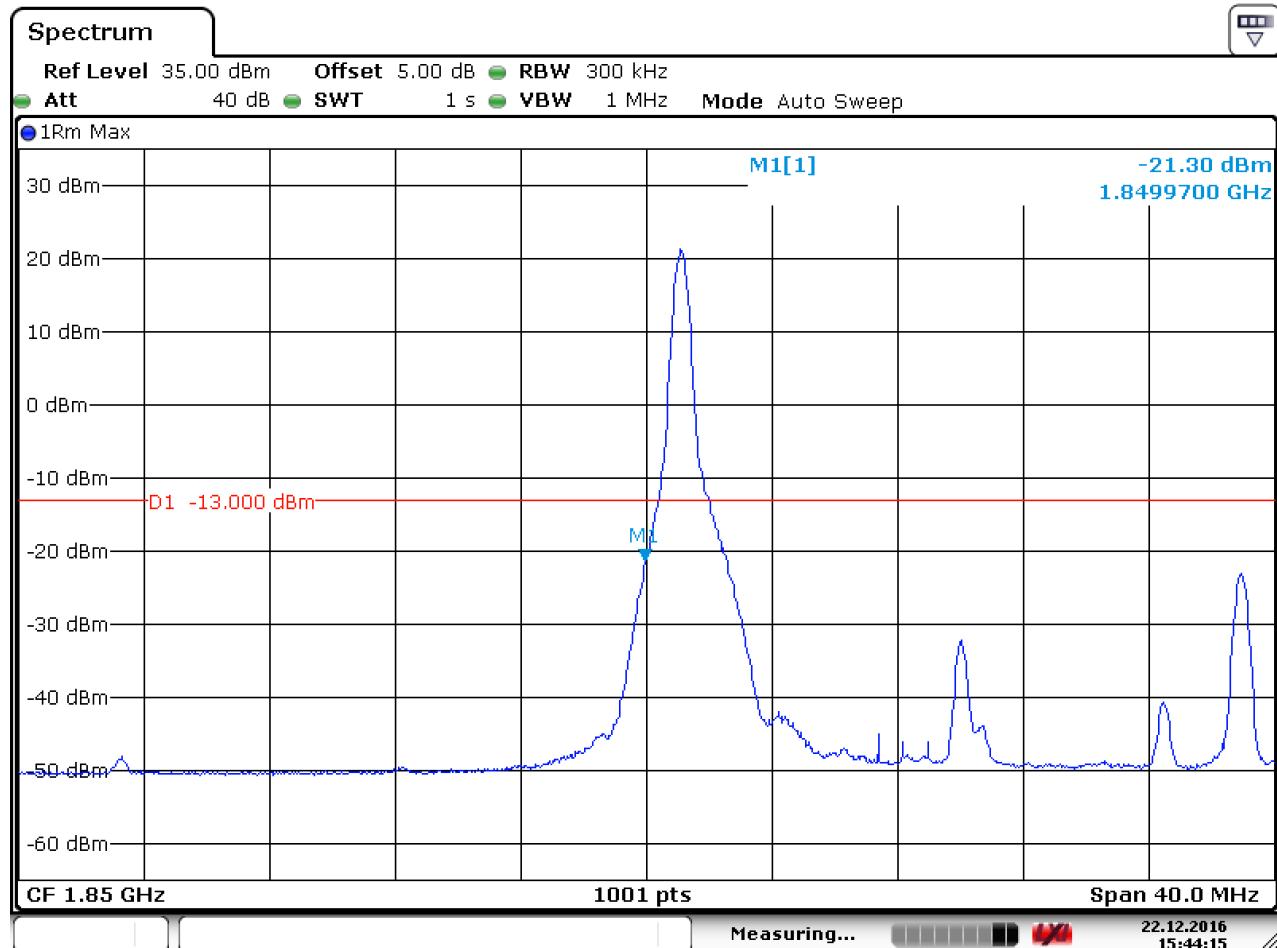


Date: 22.DEC.2016 15:45:39

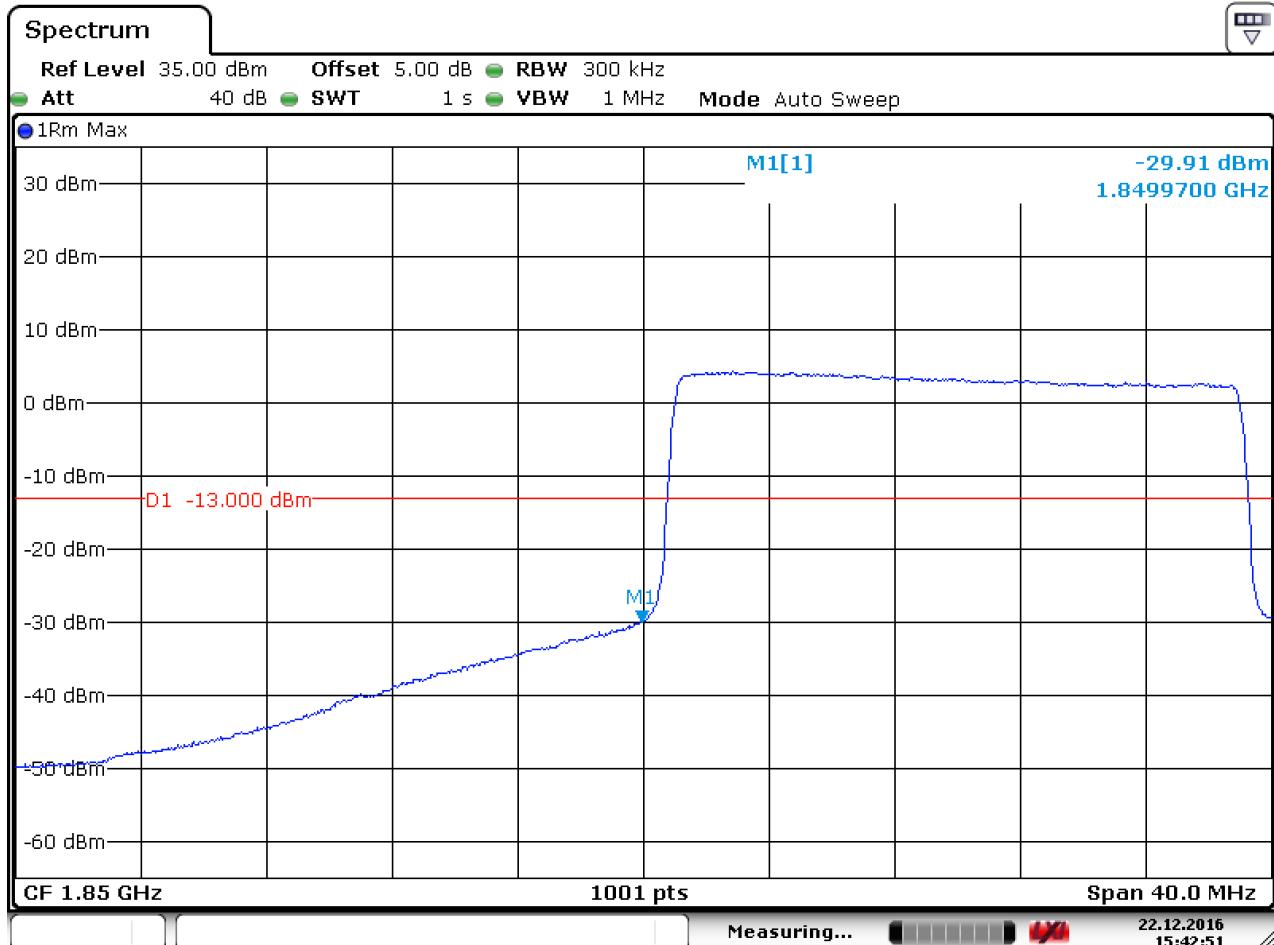
5.1.1.11.2.2 Test RB=100RB

Date: 22.DEC.2016 15:46:21

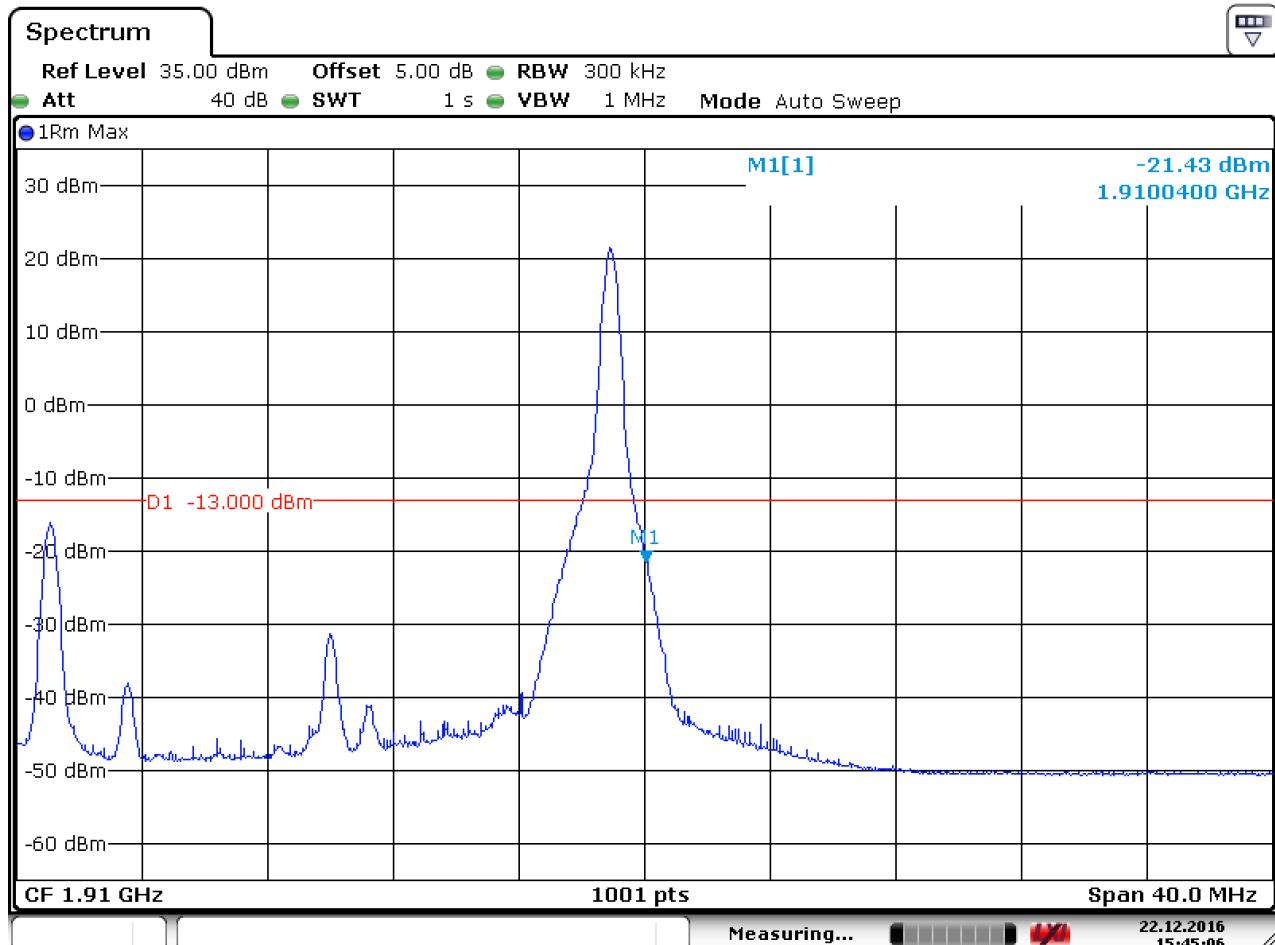
22.12.2016
15:46:21

5.1.1.12 Test Mode = LTE/TM2 20MHz**5.1.1.12.1 Test Channel = LCH****5.1.1.12.1.1 Test RB=1RB**

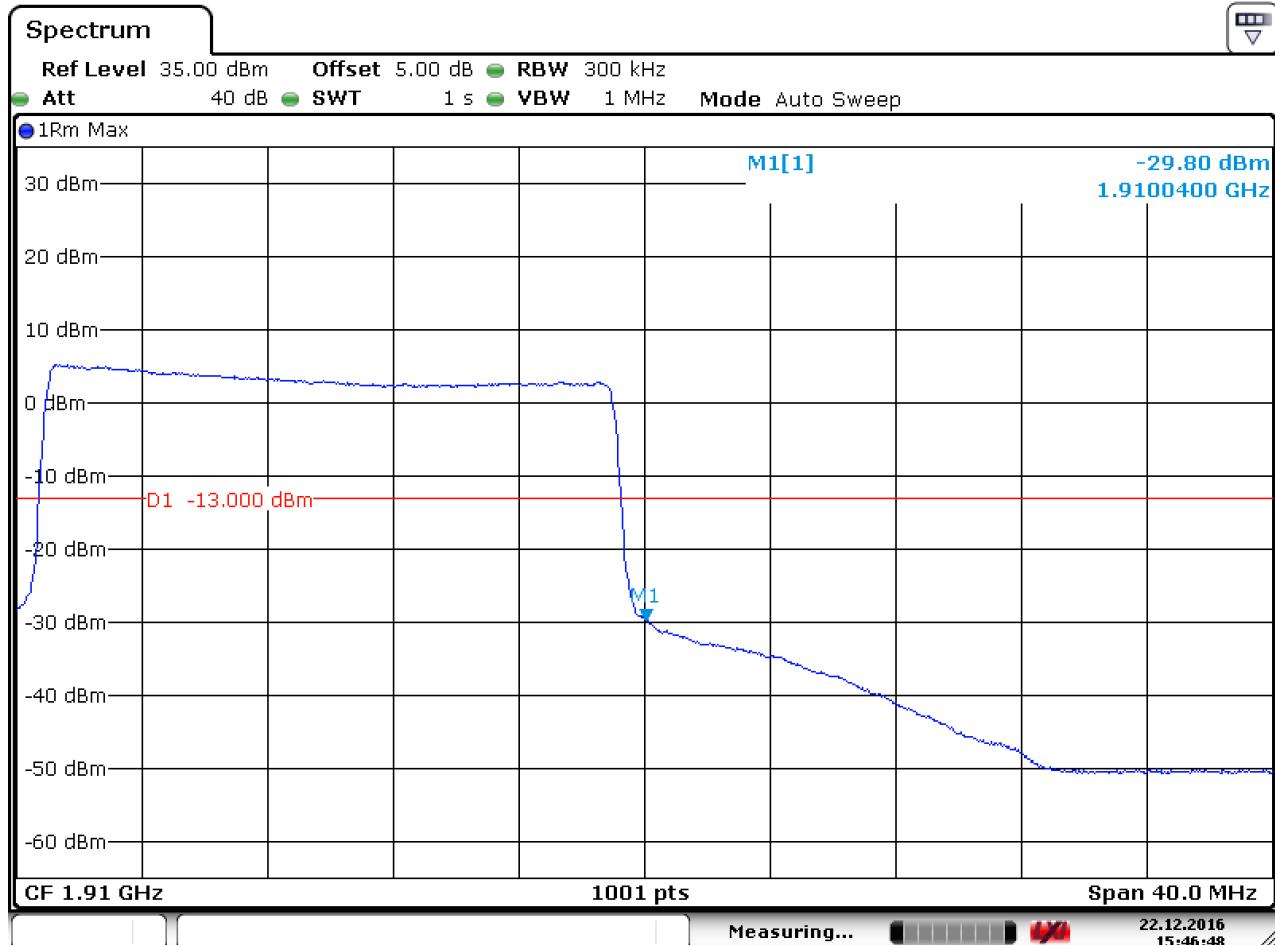
Date: 22.DEC.2016 15:44:15

5.1.1.12.1.2 Test RB=100RB

Date: 22.DEC.2016 15:42:51

5.1.1.12.2 Test Channel = HCH**5.1.1.12.2.1 Test RB=1RB**

Date: 22.DEC.2016 15:45:06

5.1.1.12.2.2 Test RB=100RB

Date: 22.DEC.2016 15:46:48



**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

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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.

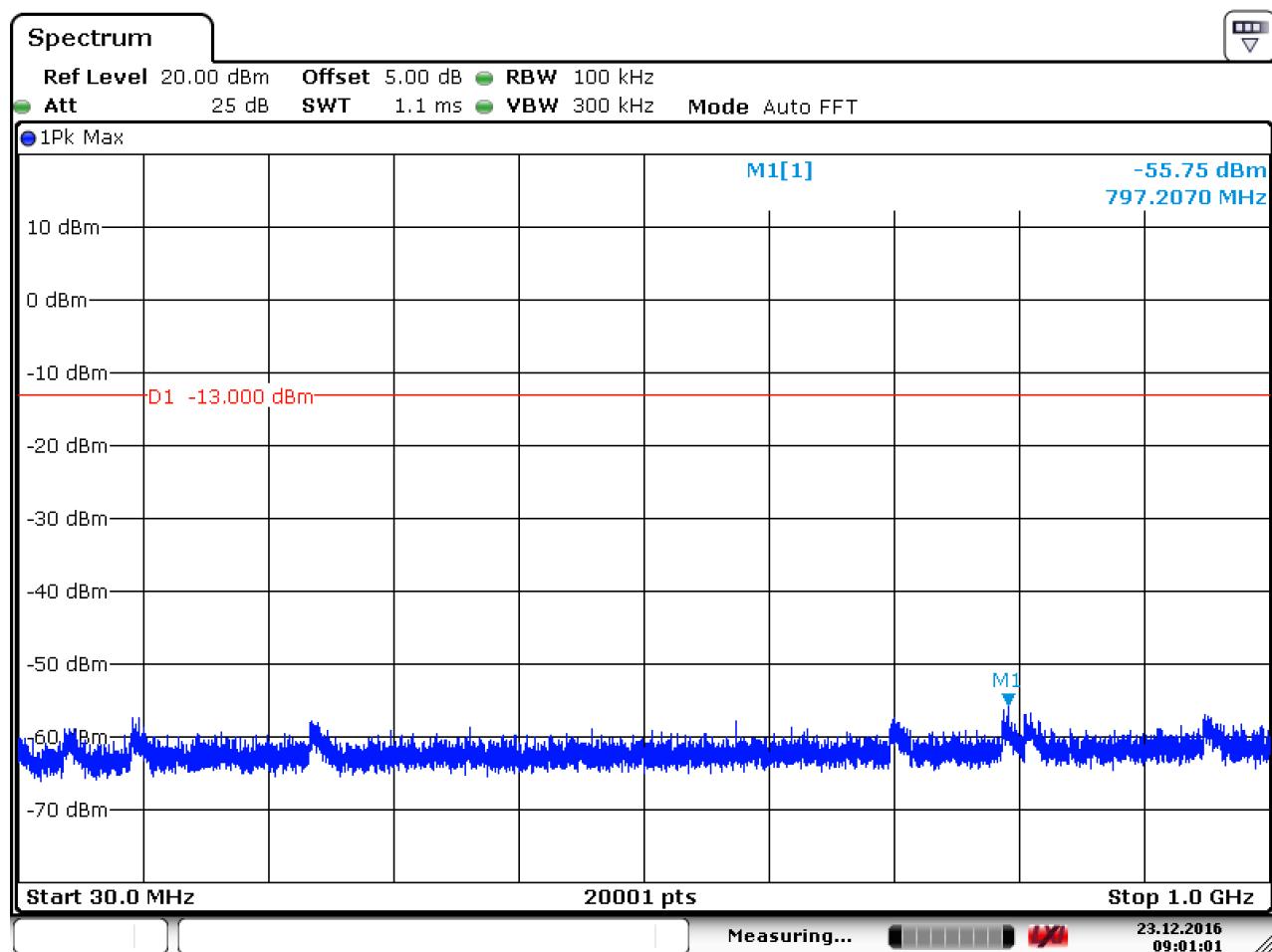
Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE band2

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

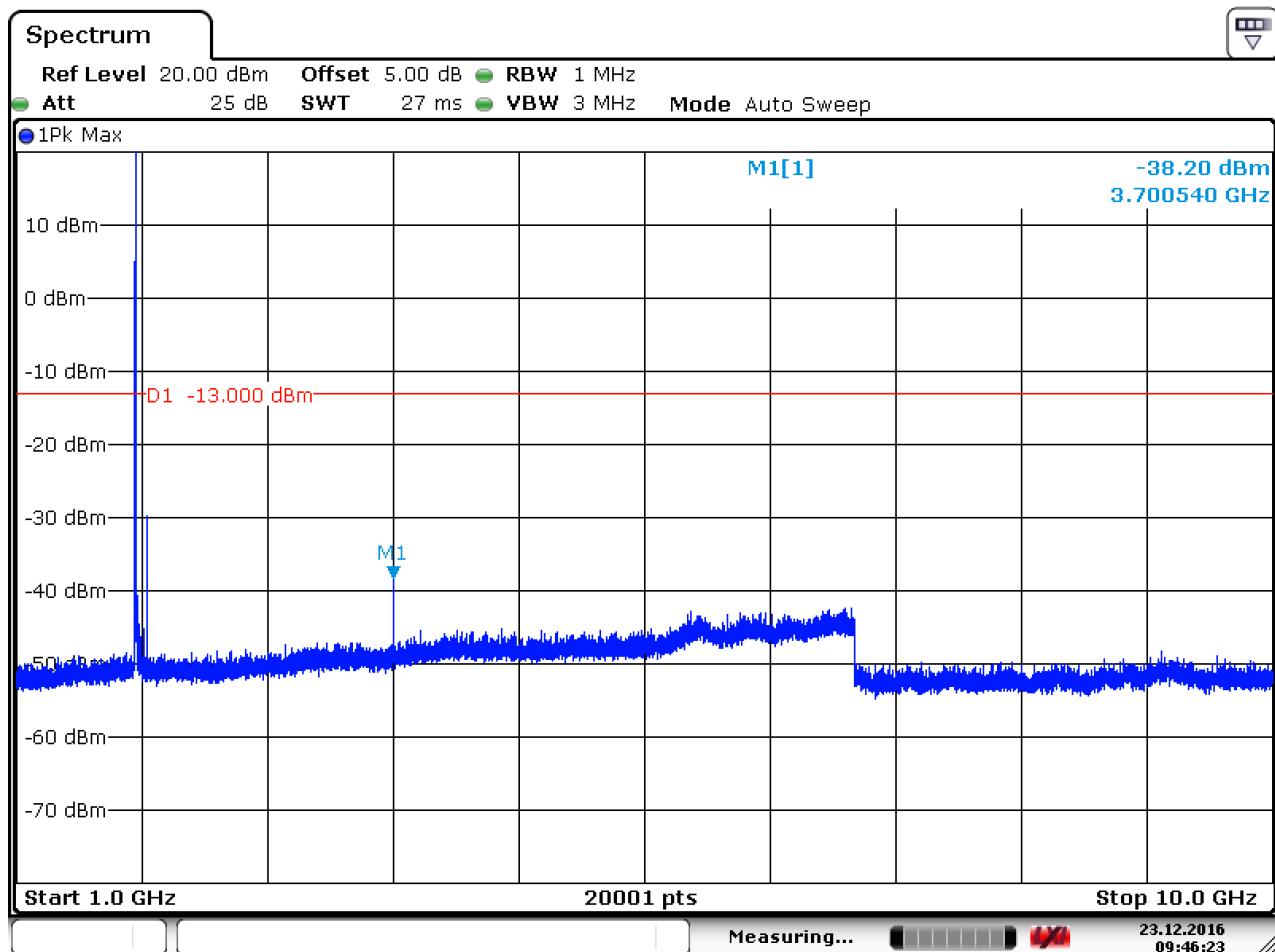
6.1.1.1.1 Test Channel = LCH



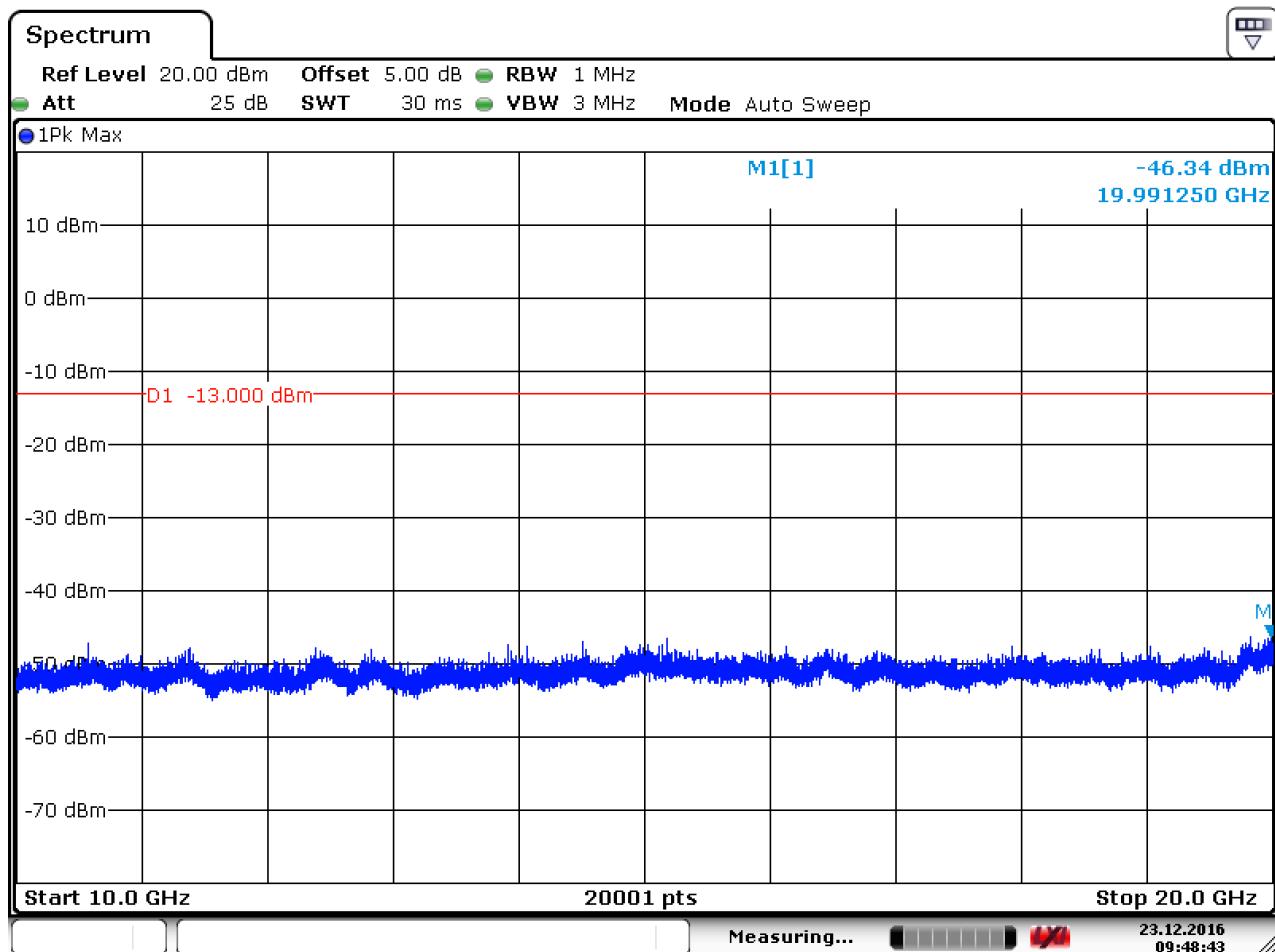
Date: 23.DEC.2016 09:01:01

Report No.: SZEM161201085001

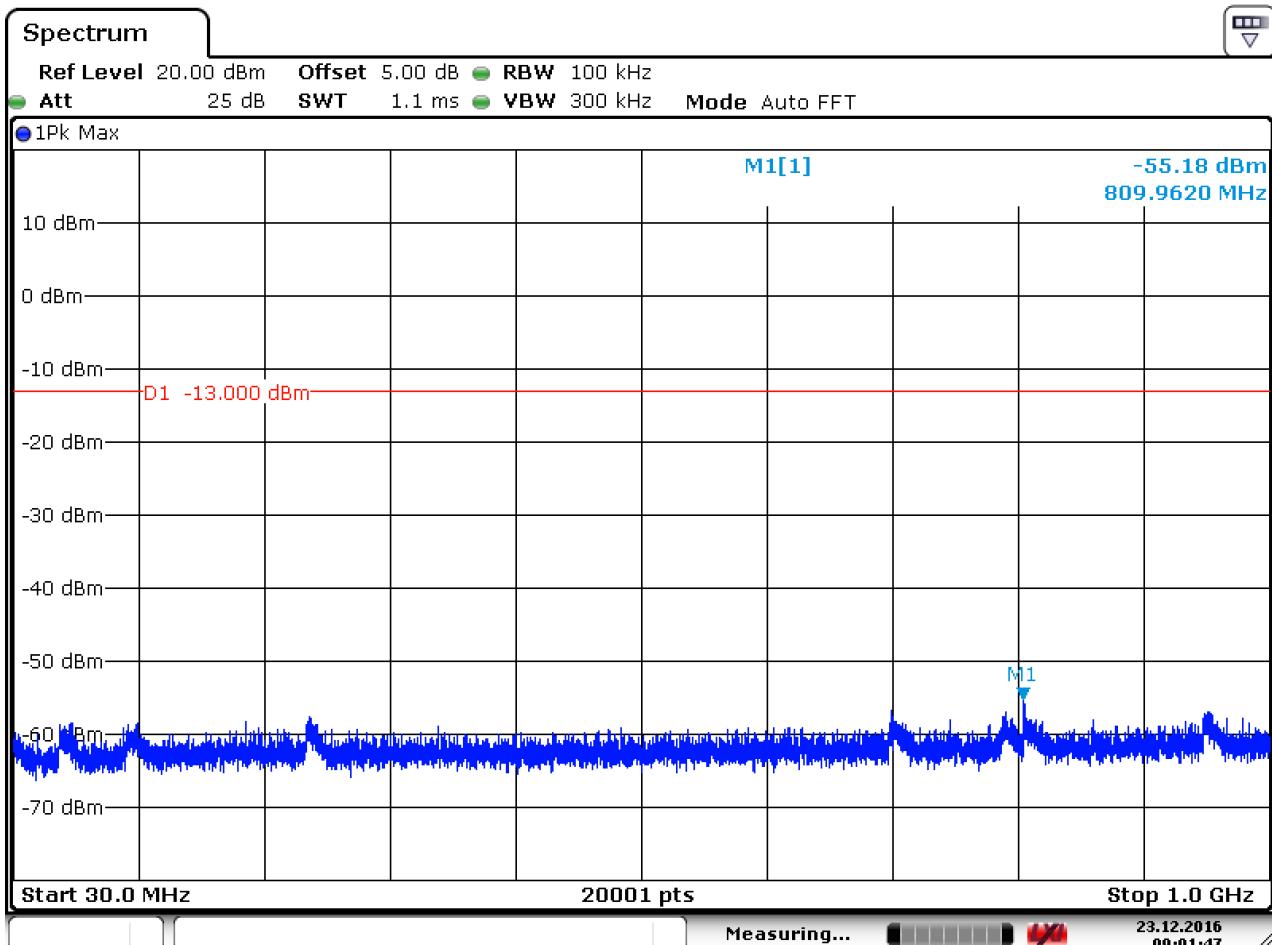
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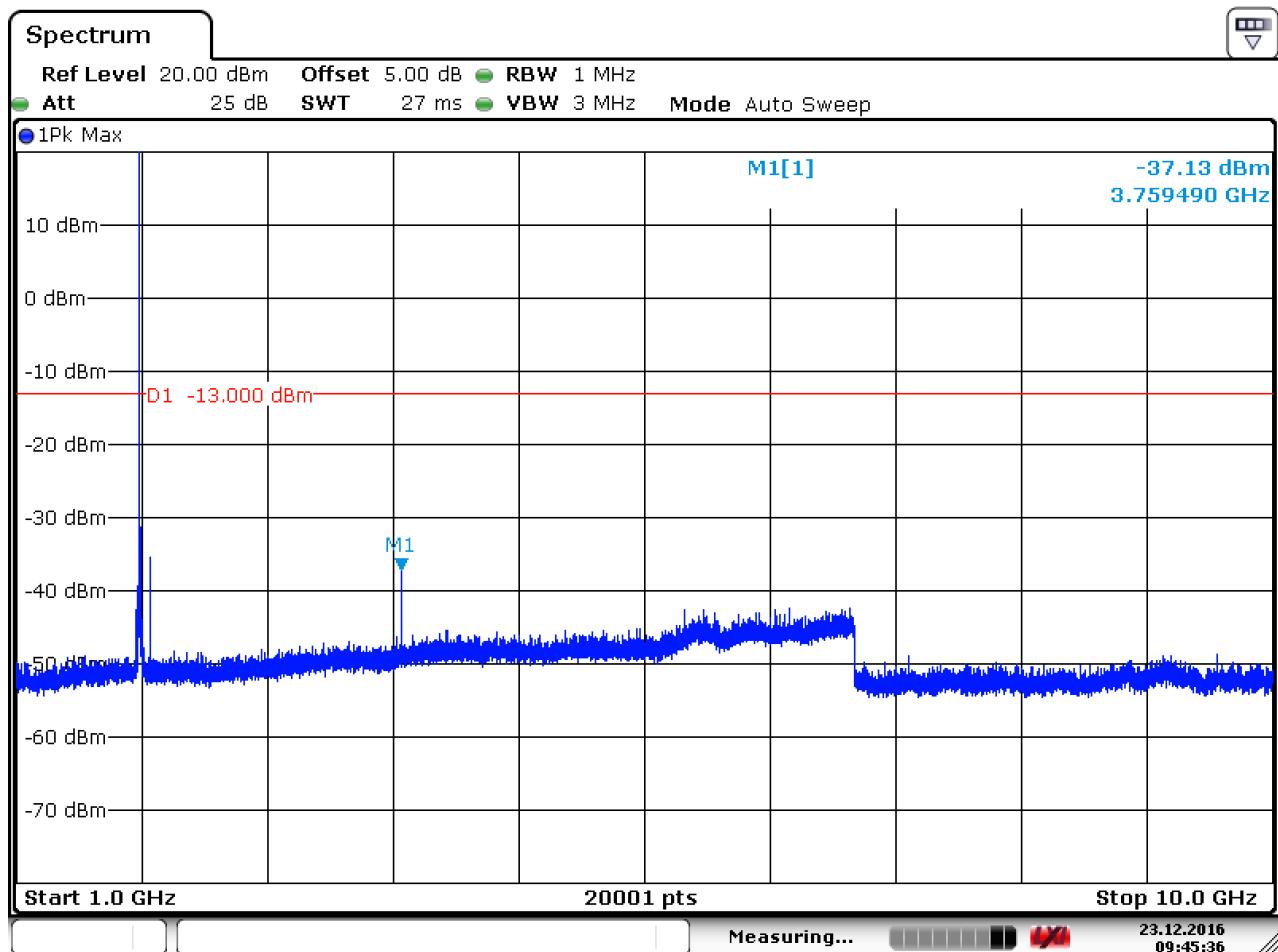
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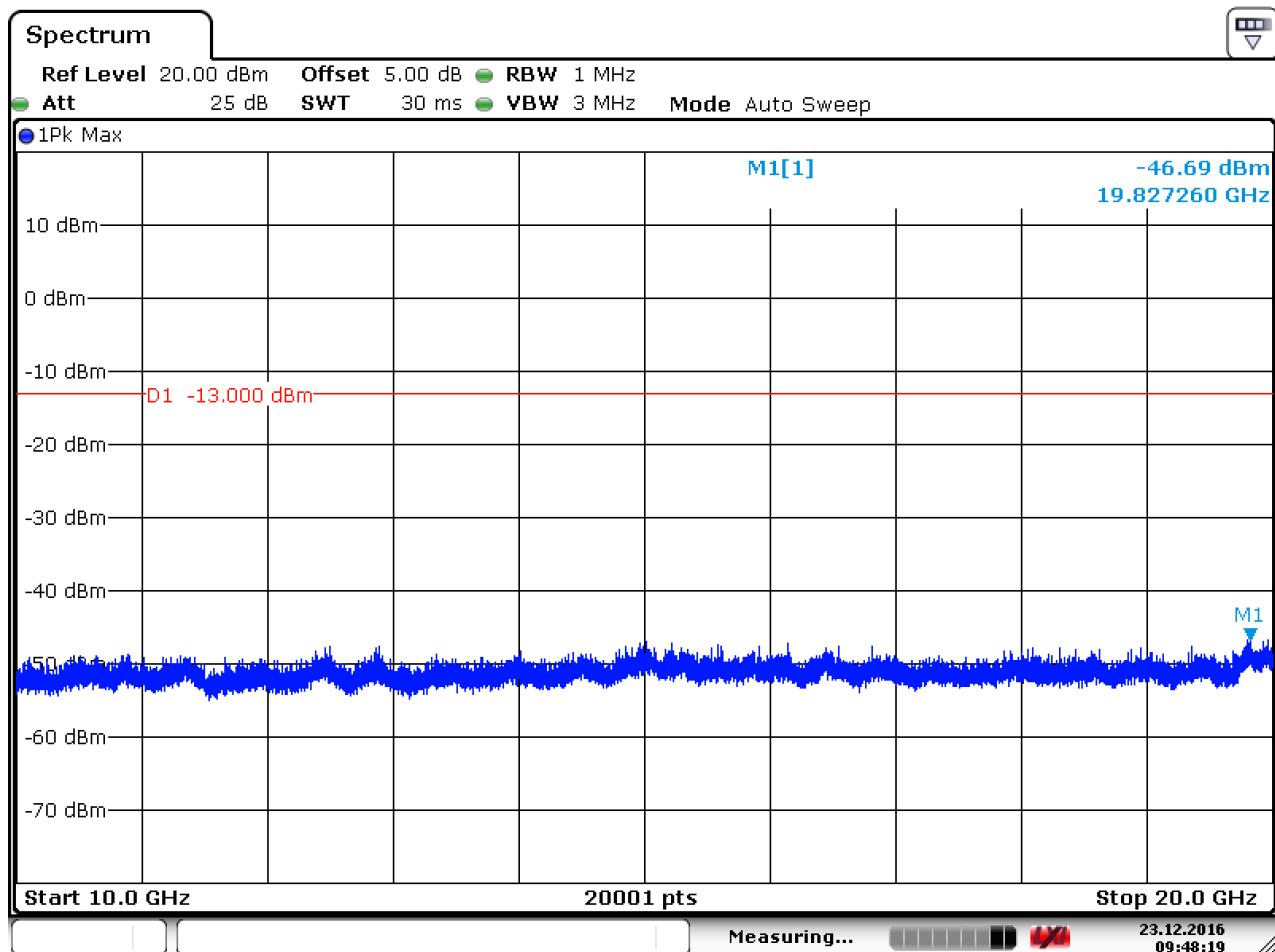
Date: 23.DEC.2016 09:48:44

6.1.1.1.2 Test Channel = MCH

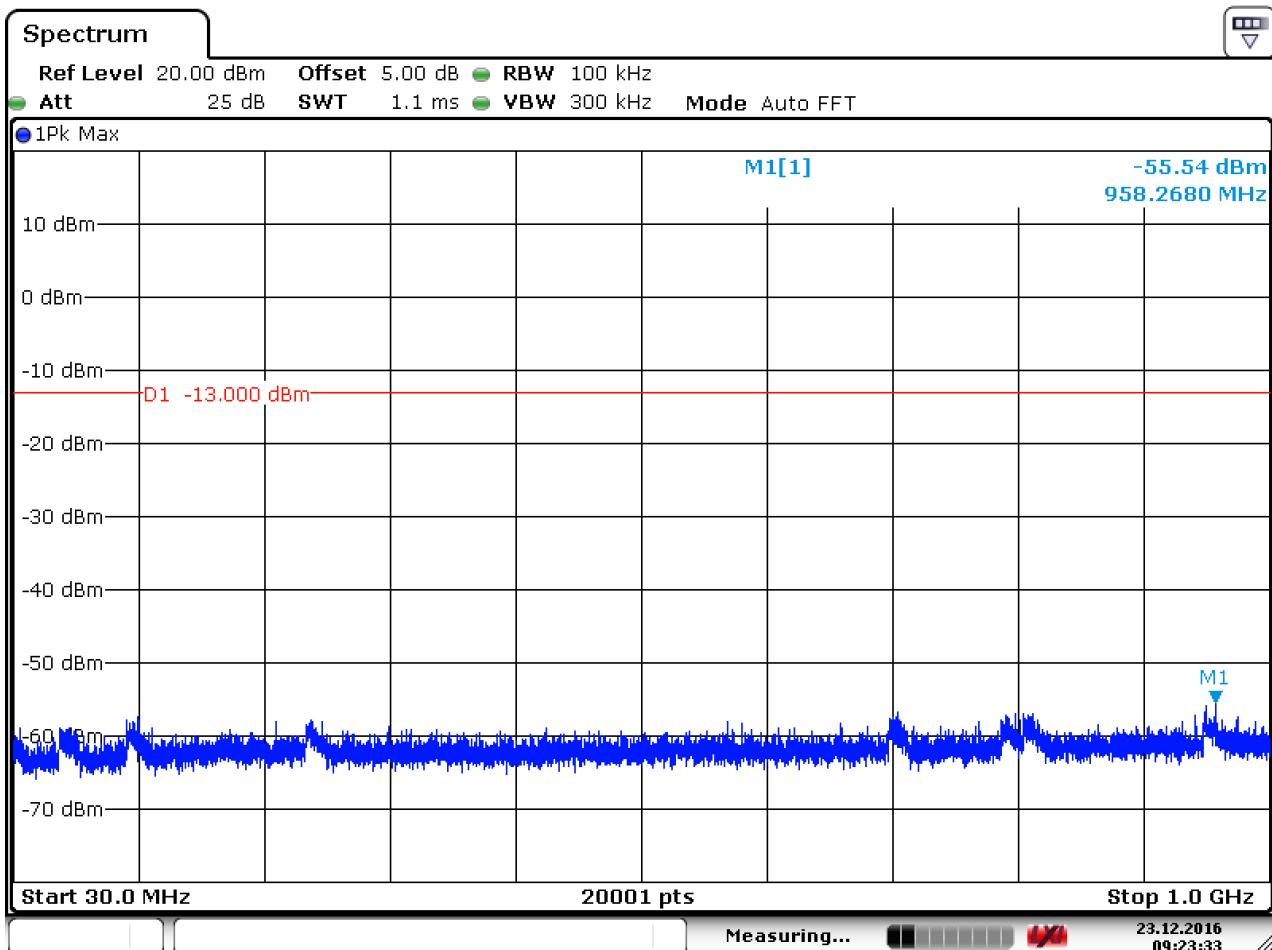
Date: 23.DEC.2016 09:01:48



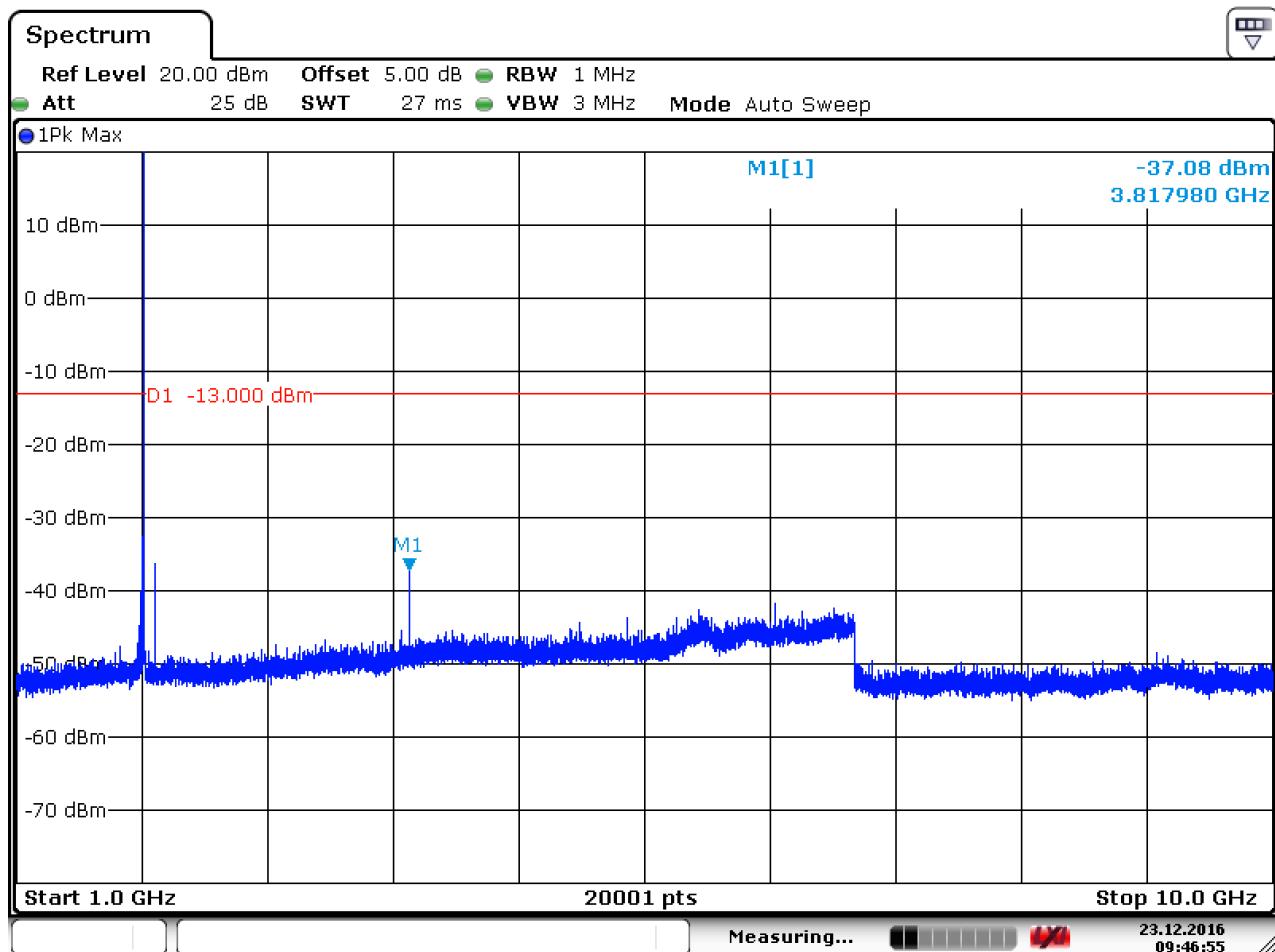
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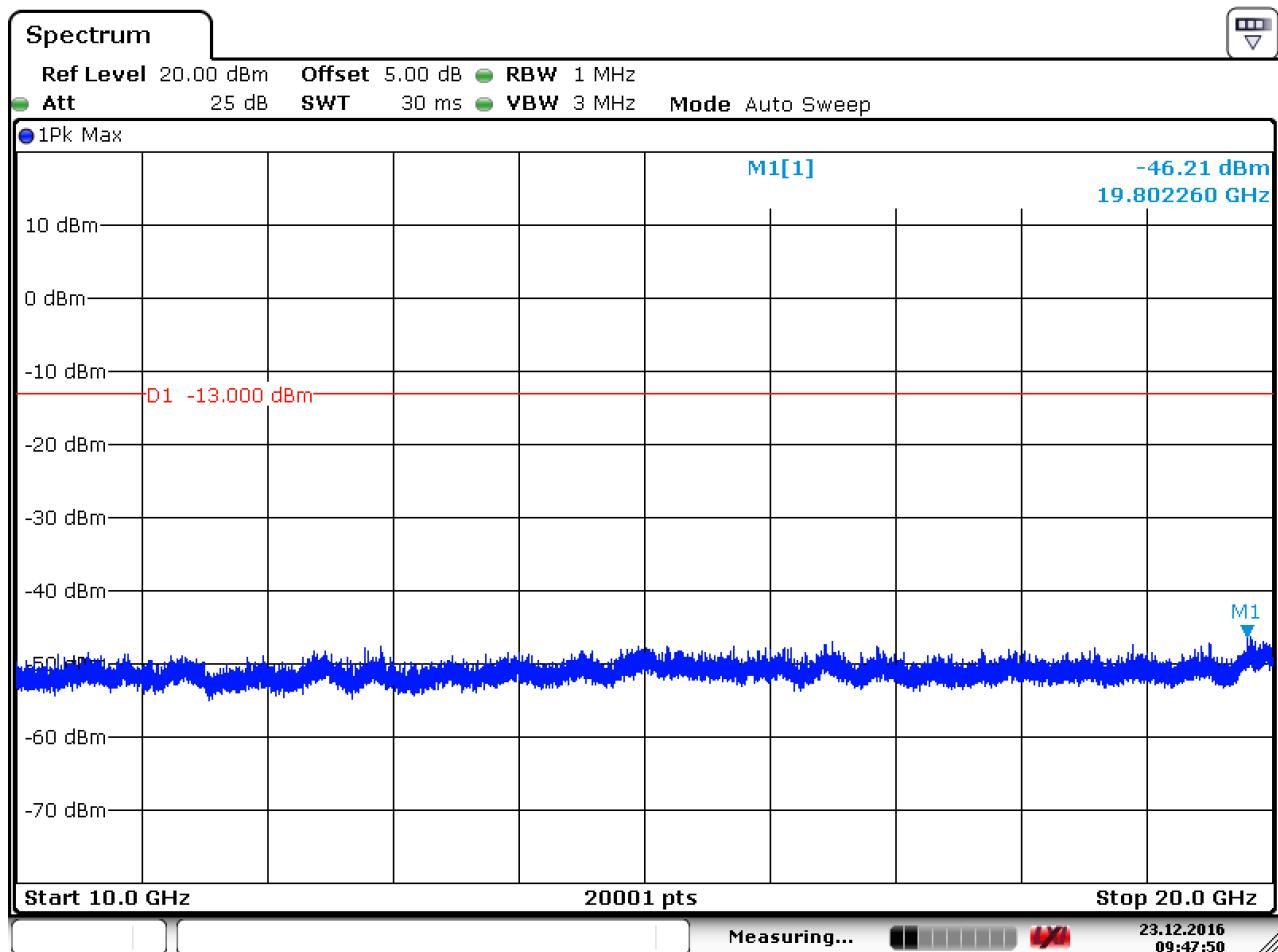
Date: 23.DEC.2016 09:48:19

6.1.1.1.3 Test Channel = HCH

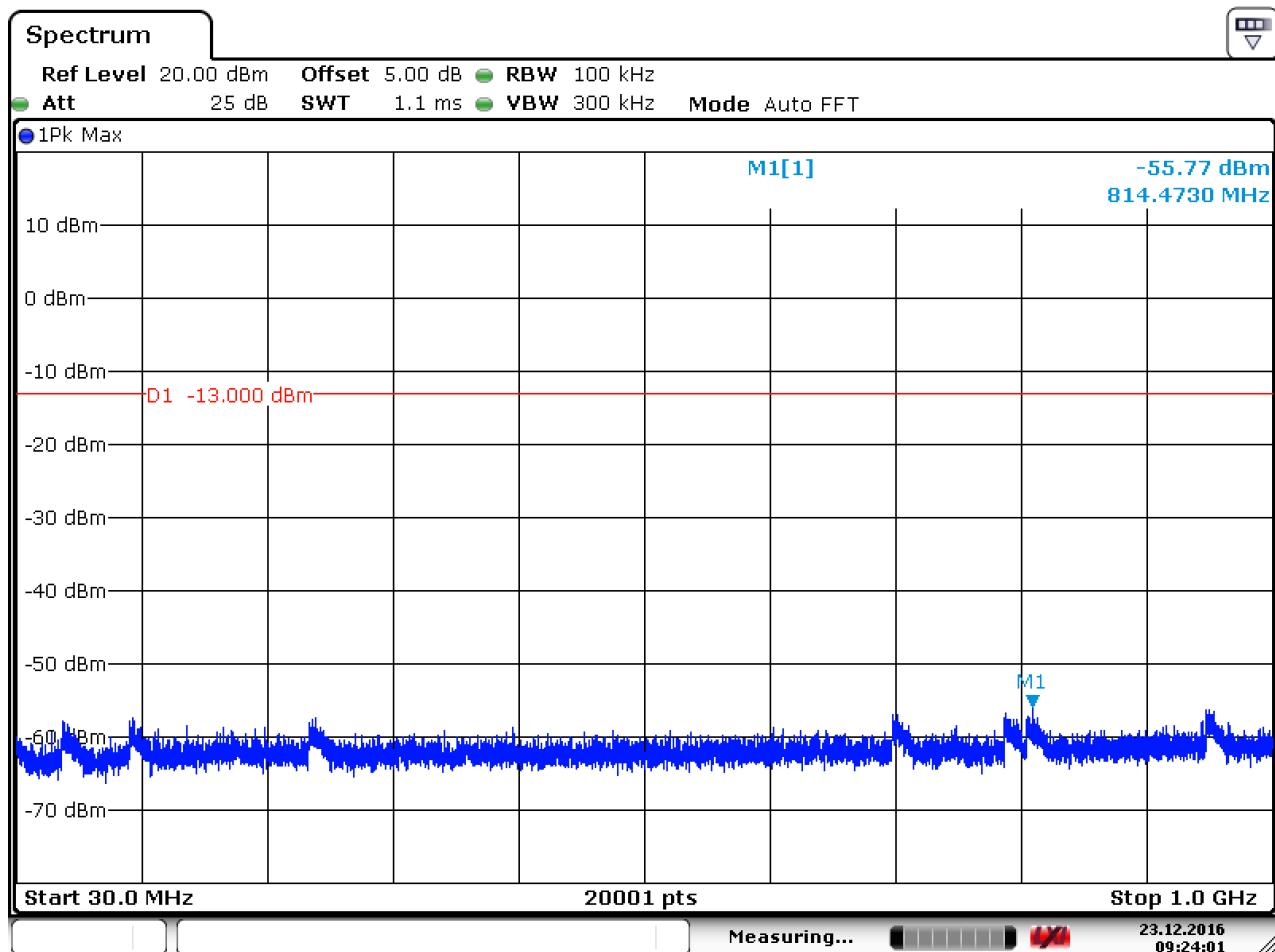
Date: 23.DEC.2016 09:23:33



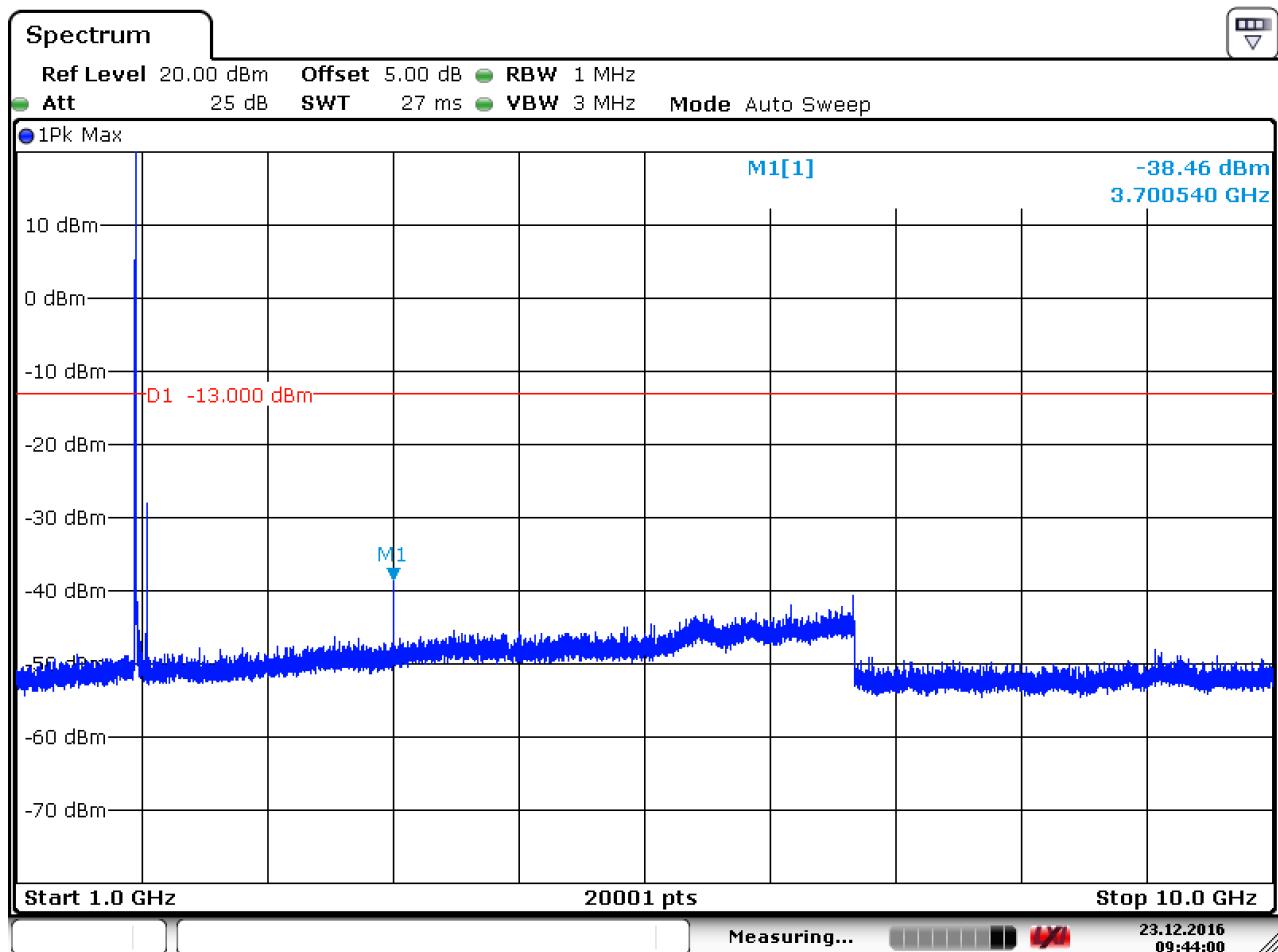
Date: 23.DEC.2016 09:46:55



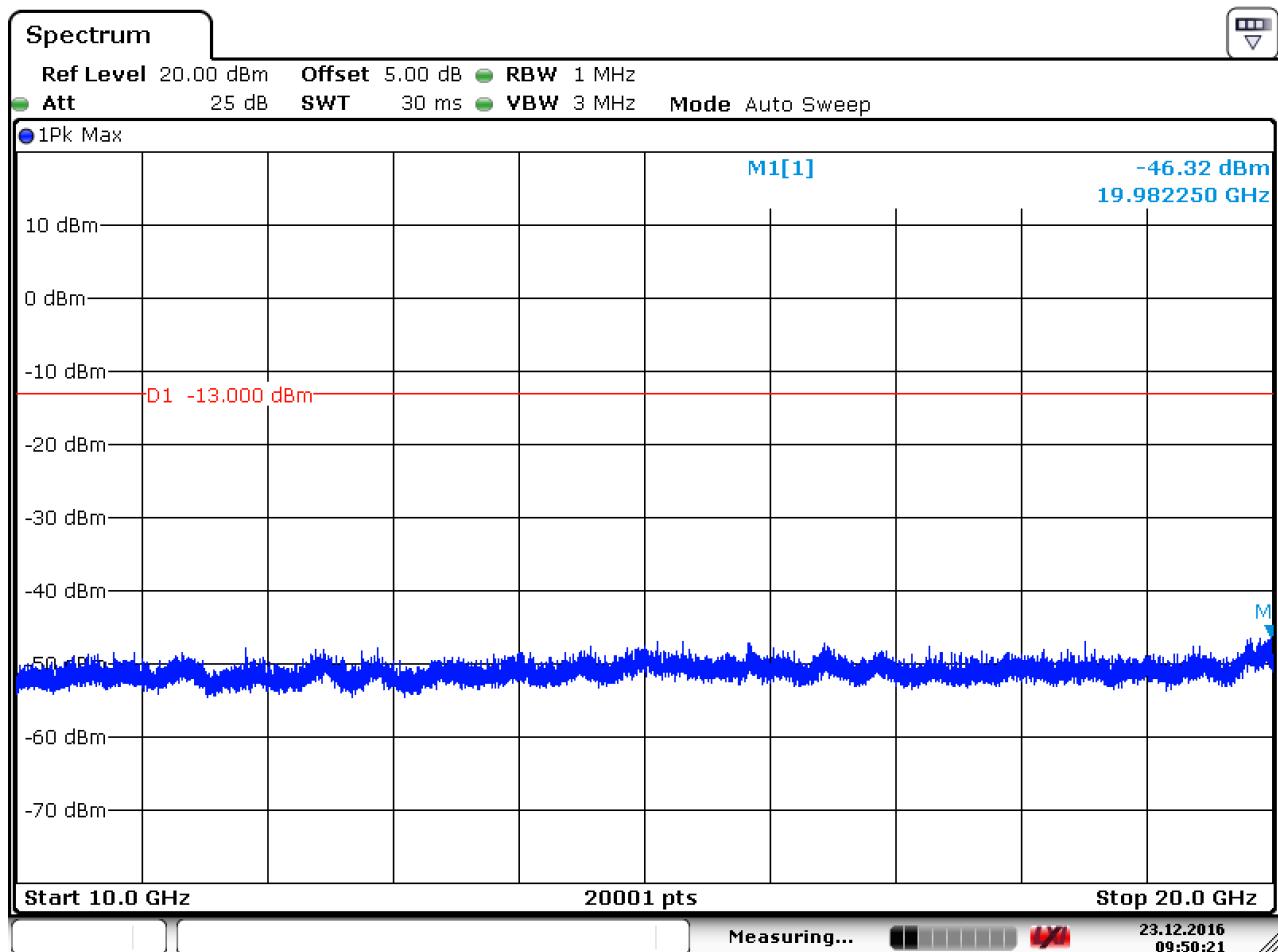
Date: 23.DEC.2016 09:47:51

6.1.1.2 Test Mode = LTE / TM1 3MHz RB1#0**6.1.1.2.1 Test Channel = LCH**

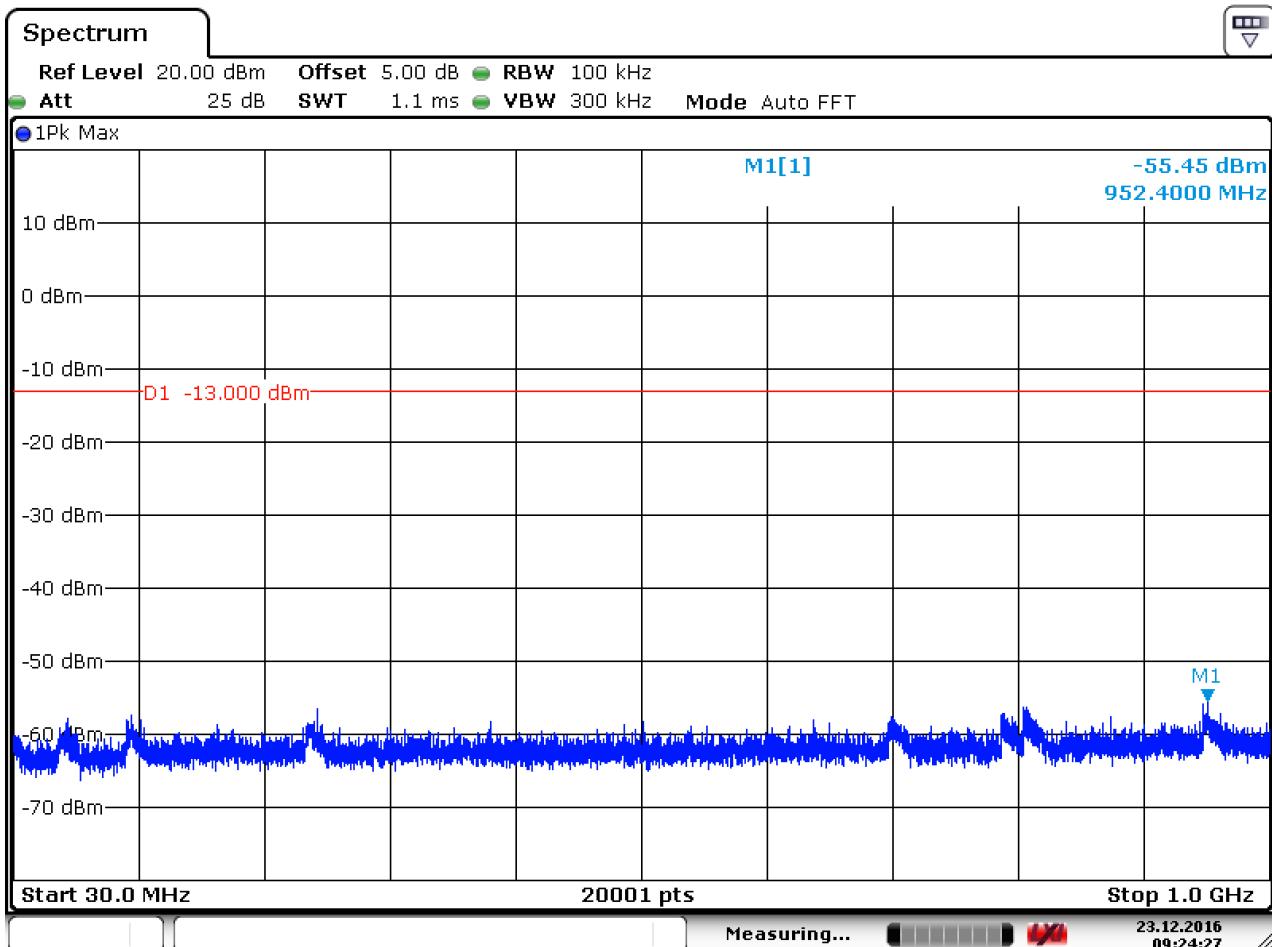
Date: 23.DEC.2016 09:24:01



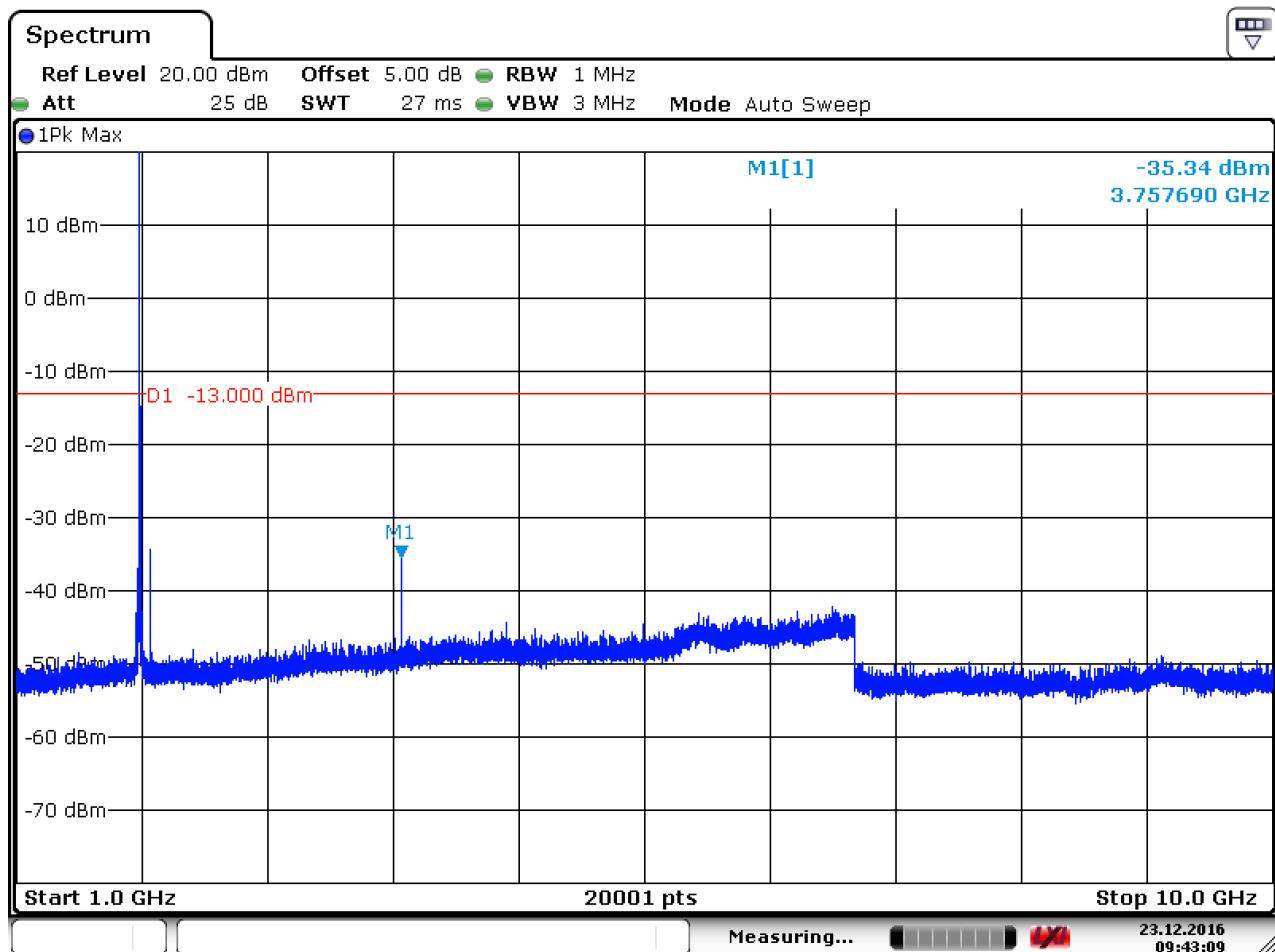
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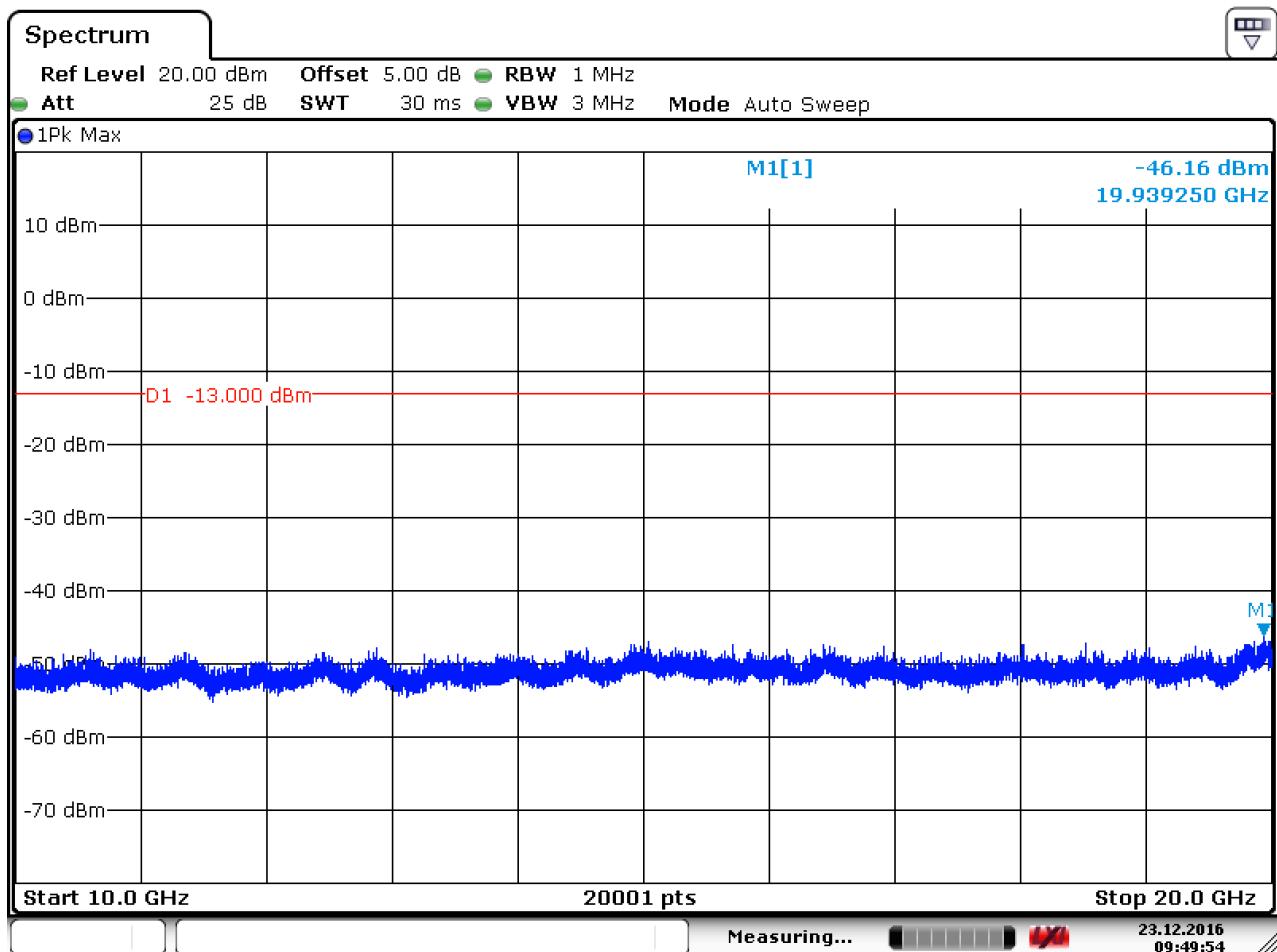
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6.1.1.2.2 Test Channel = MCH

Date: 23.DEC.2016 09:24:28

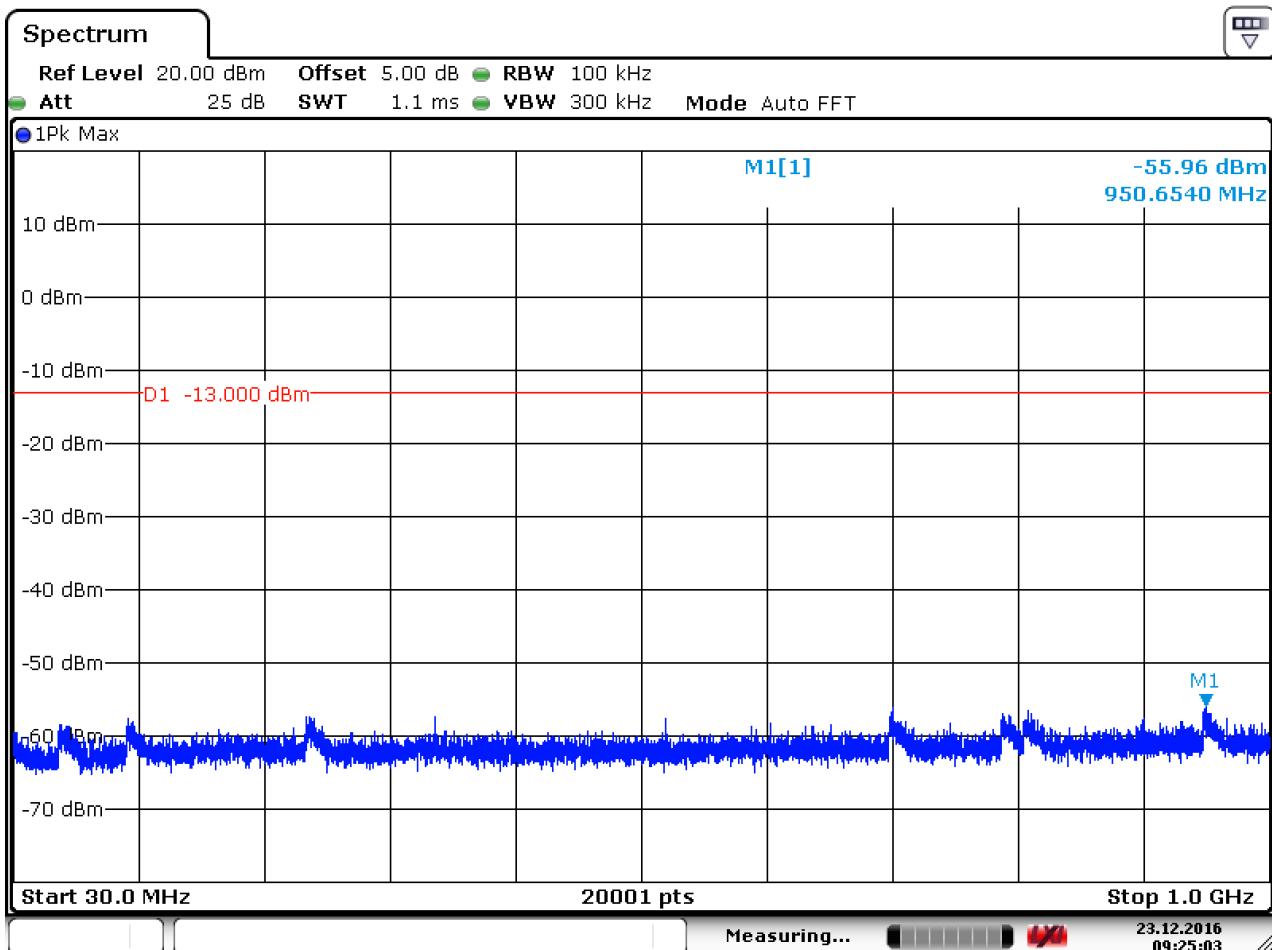


Date: 23.DEC.2016 09:43:08

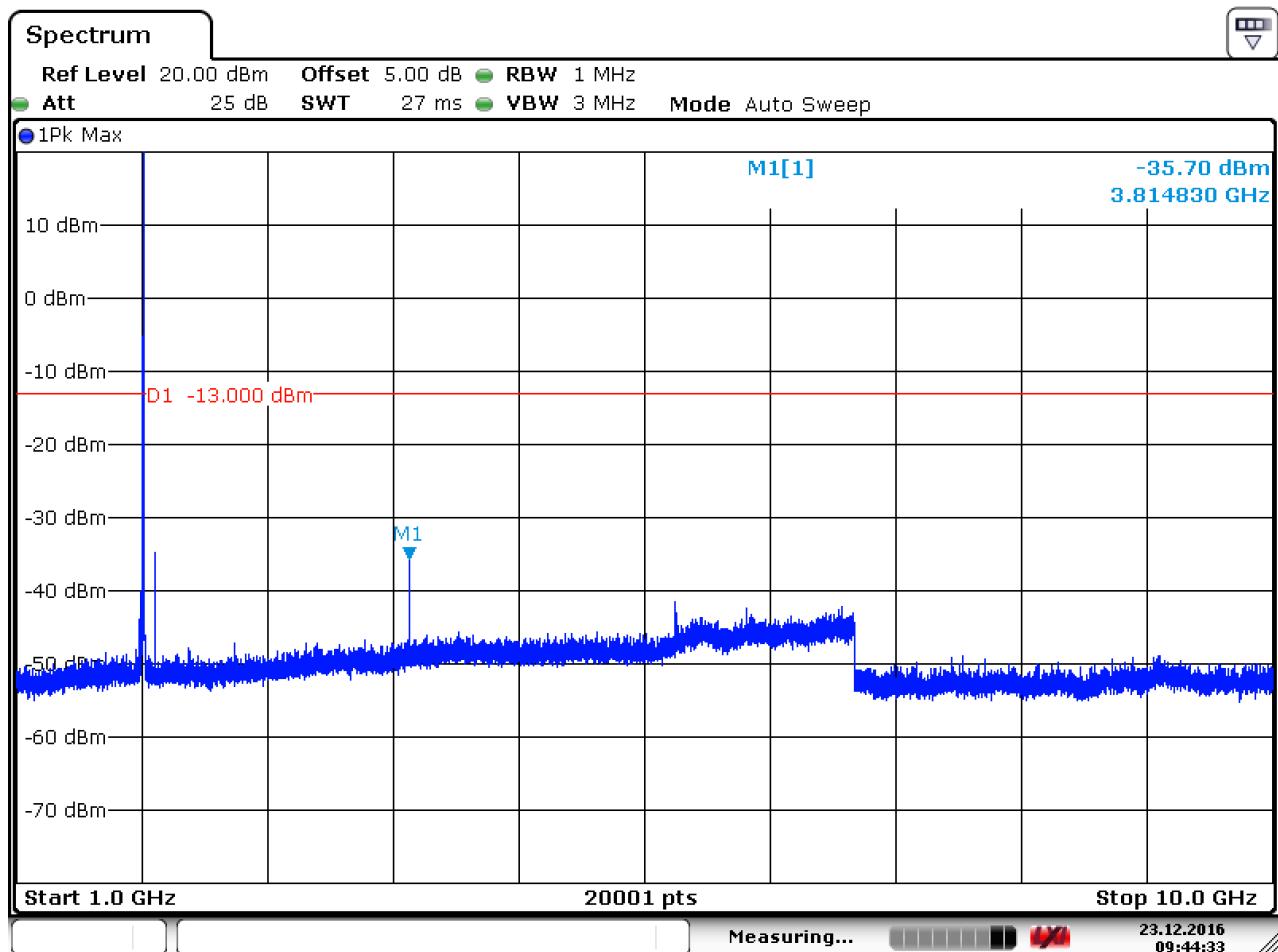


Date: 23.DEC.2016 09:49:55

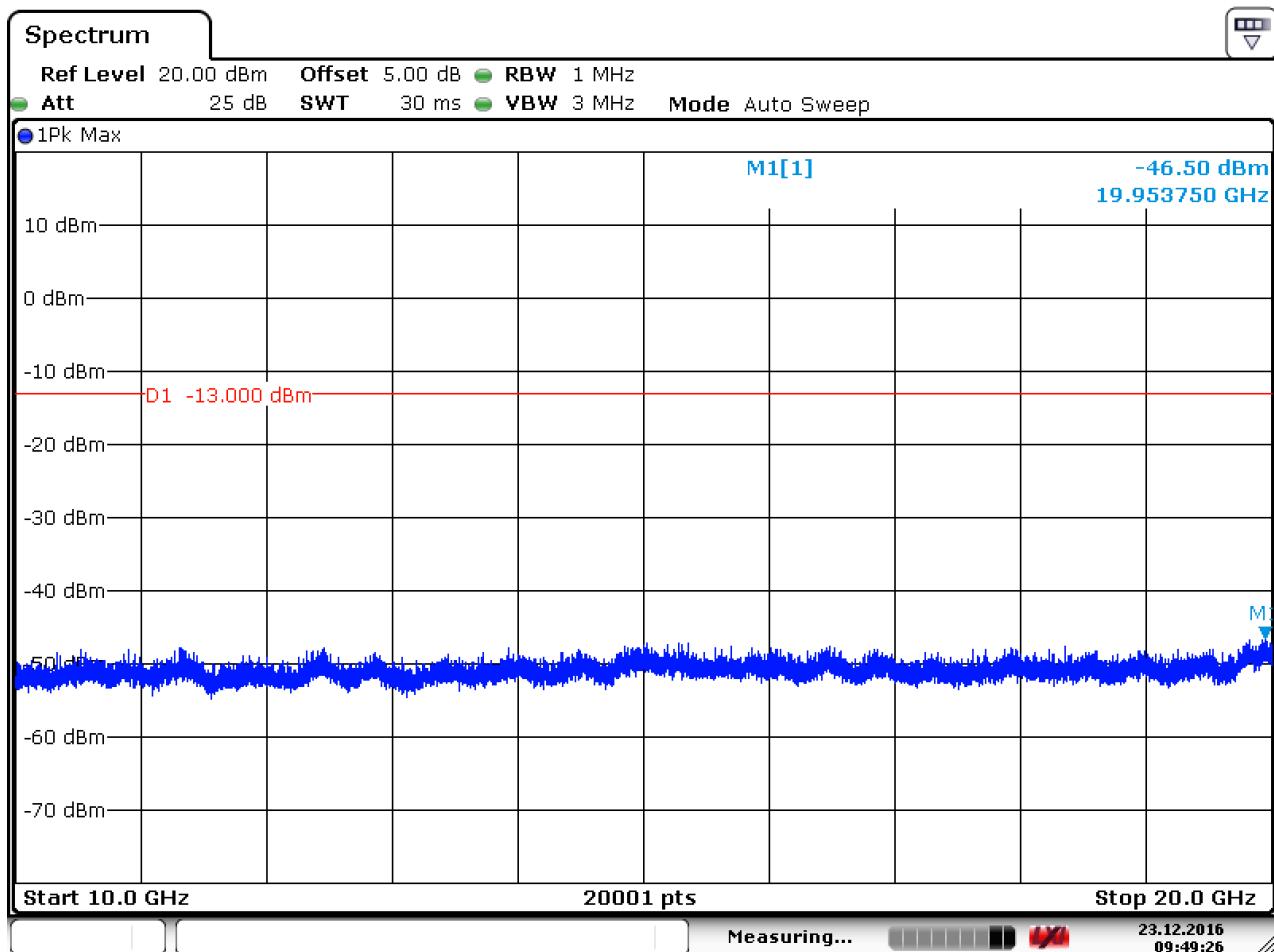
6.1.1.2.3 Test Channel = HCH



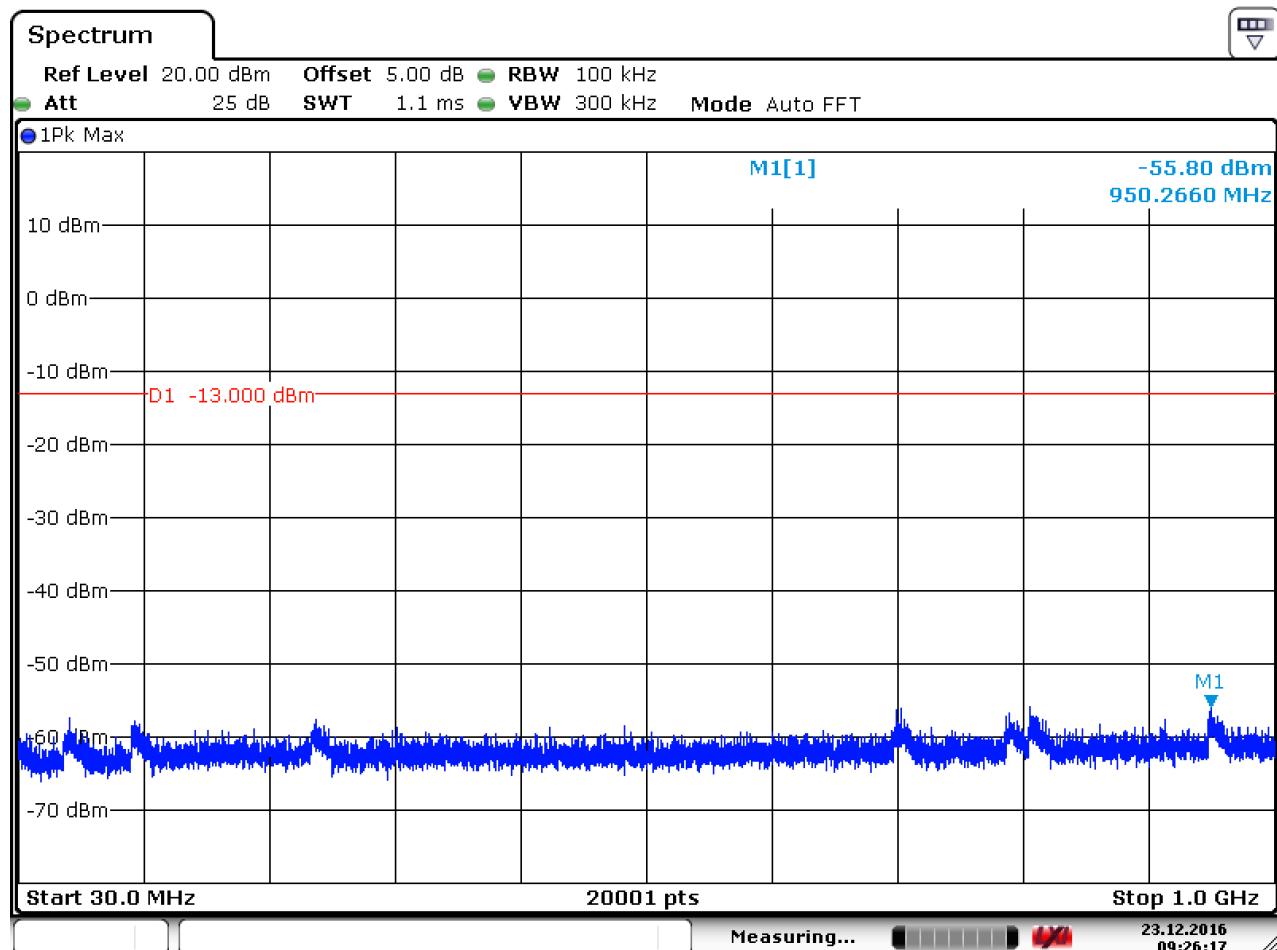
Date: 23.DEC.2016 09:25:03



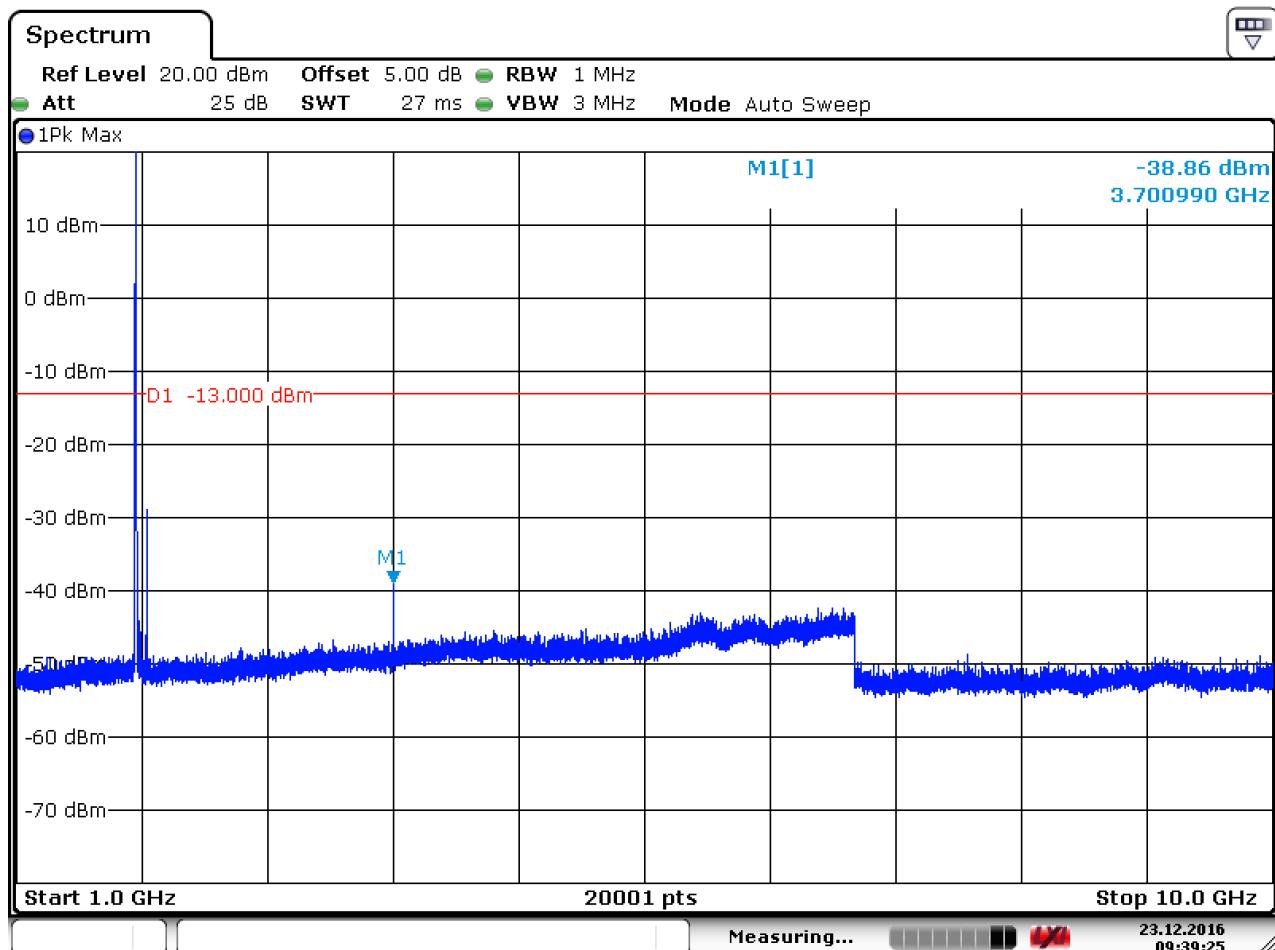
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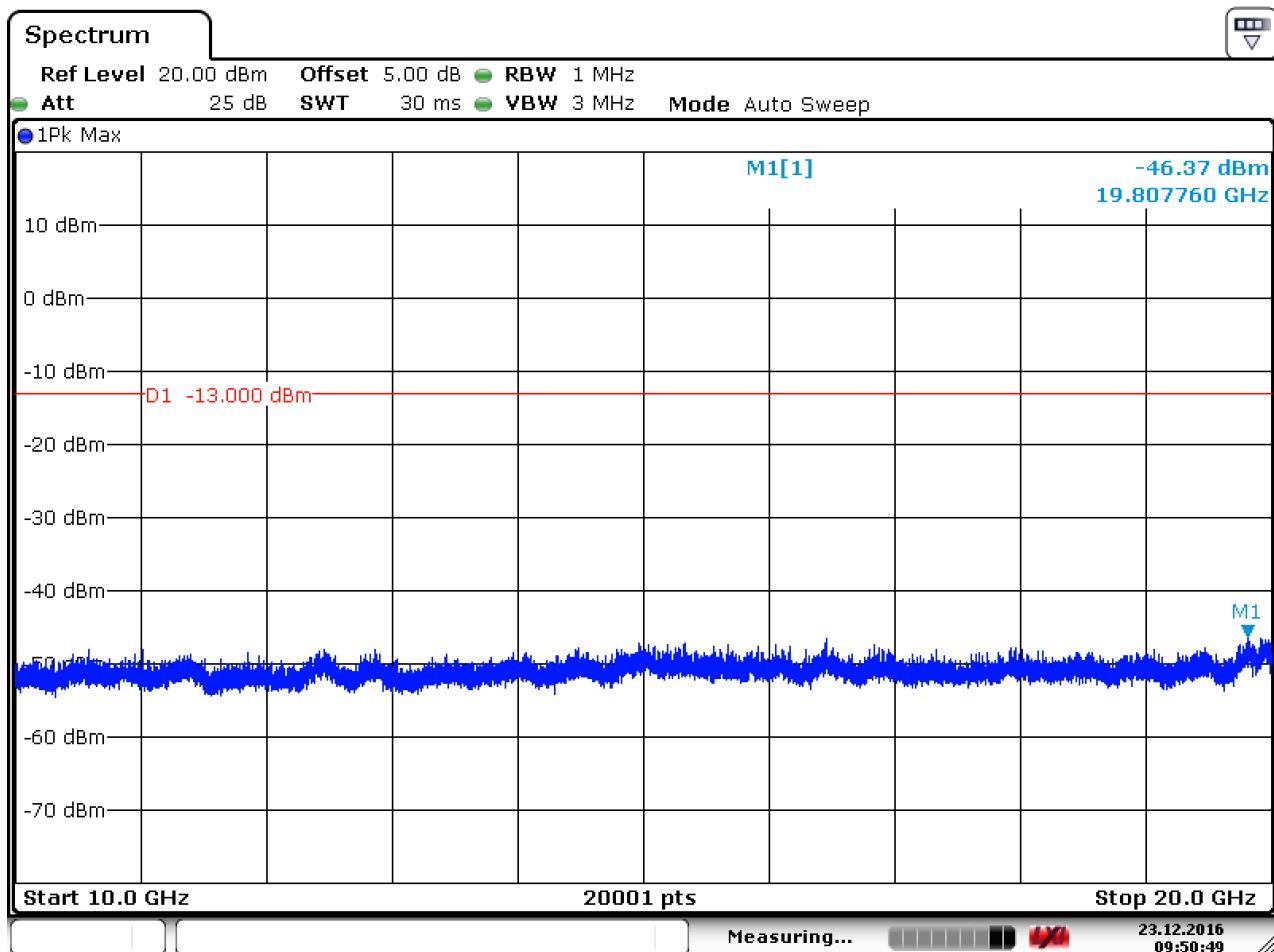
Date: 23.DEC.2016 09:49:26

6.1.1.3 Test Mode = LTE / TM1 5MHz RB1#0**6.1.1.3.1 Test Channel = LCH**

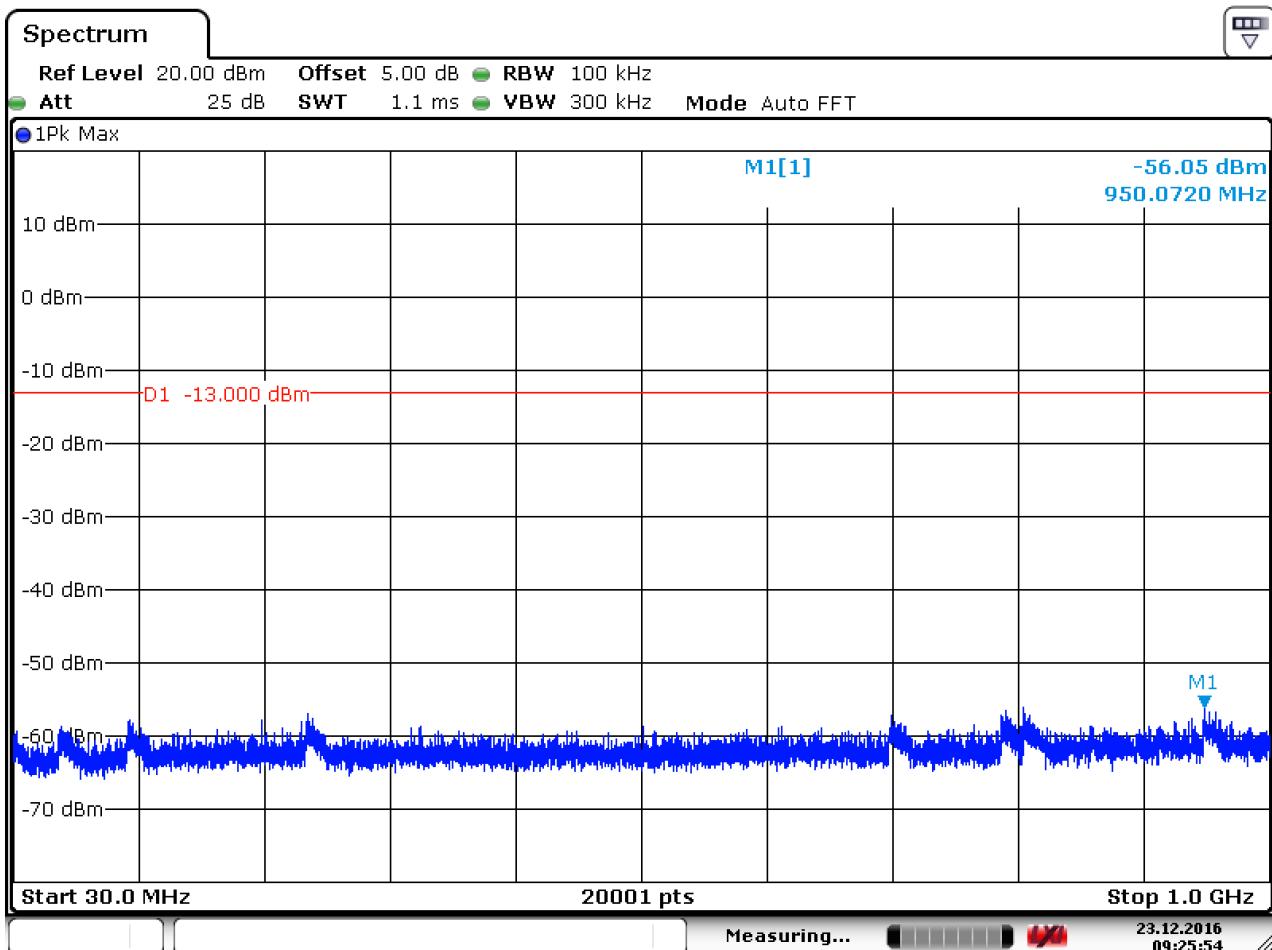
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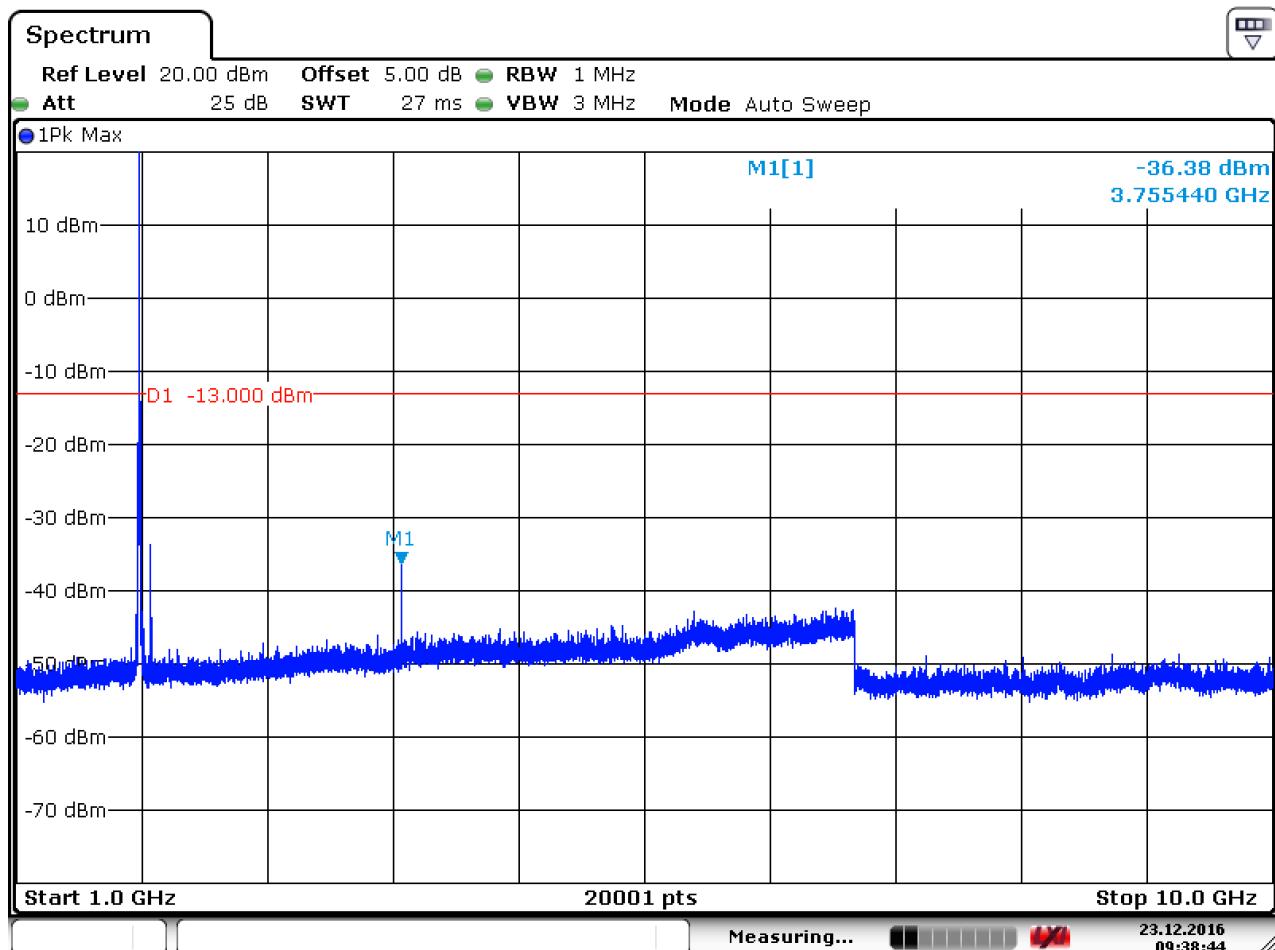
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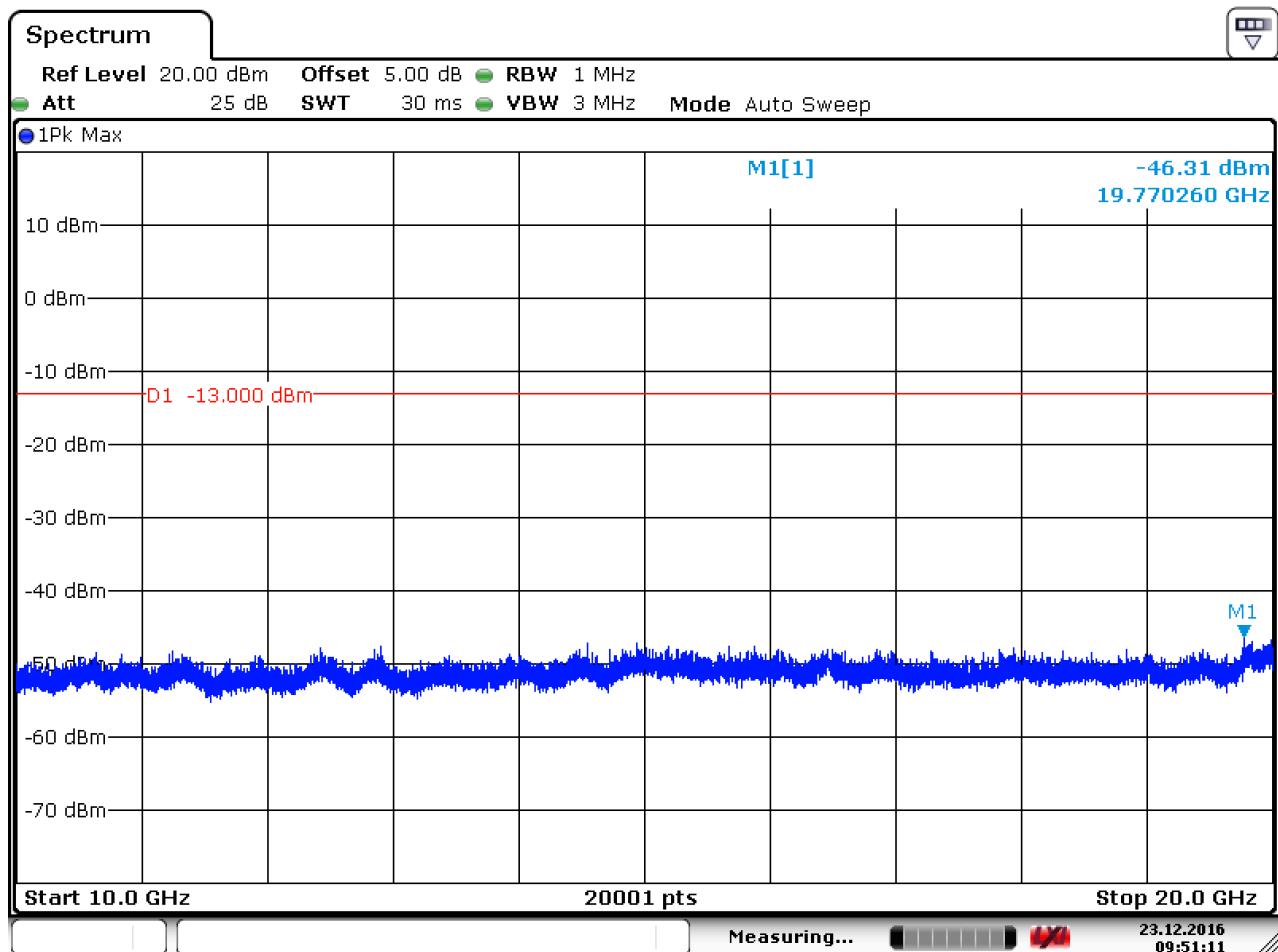
Date: 23.DEC.2016 09:50:49

6.1.1.3.2 Test Channel = MCH

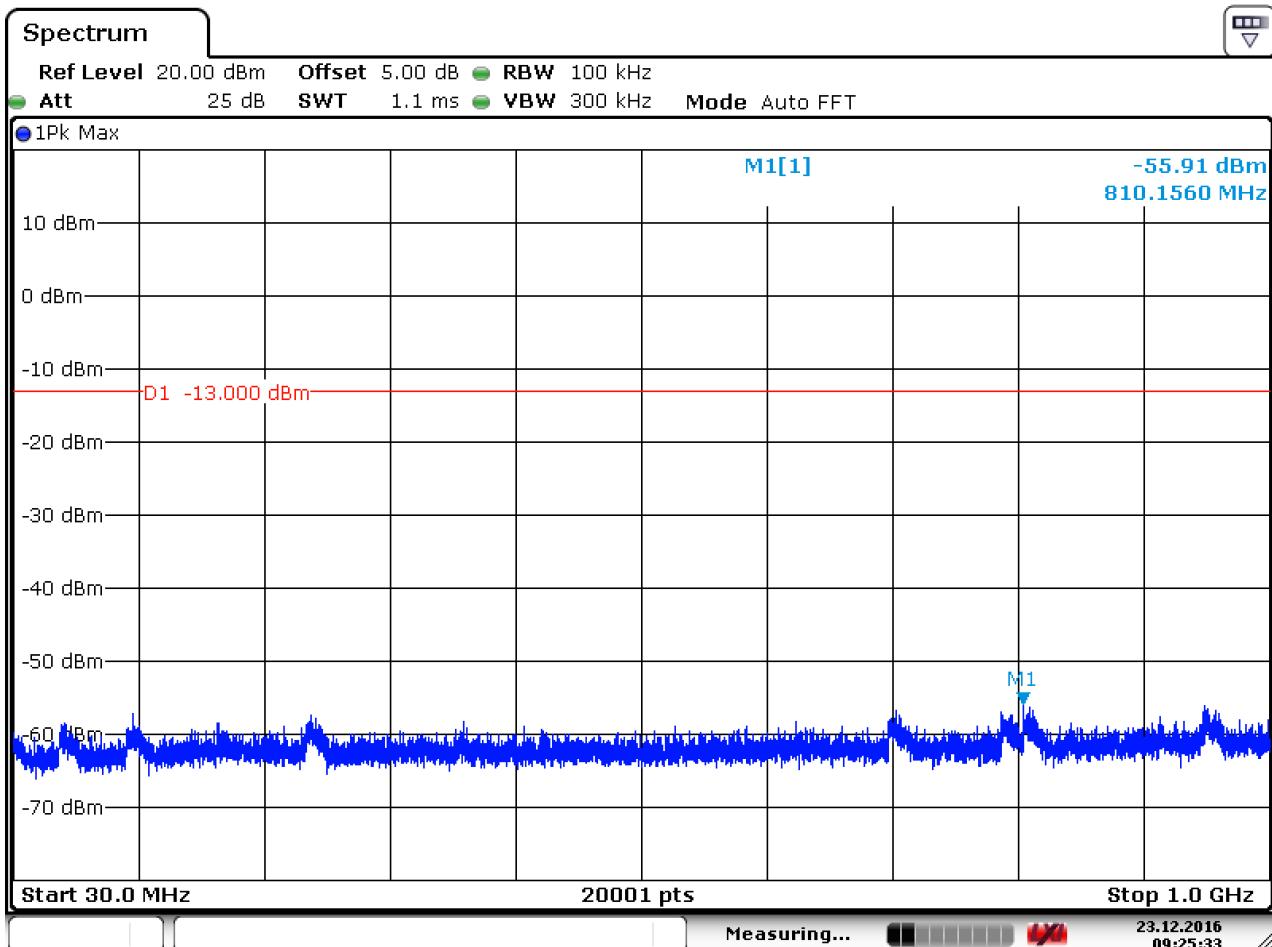
Date: 23.DEC.2016 09:25:55

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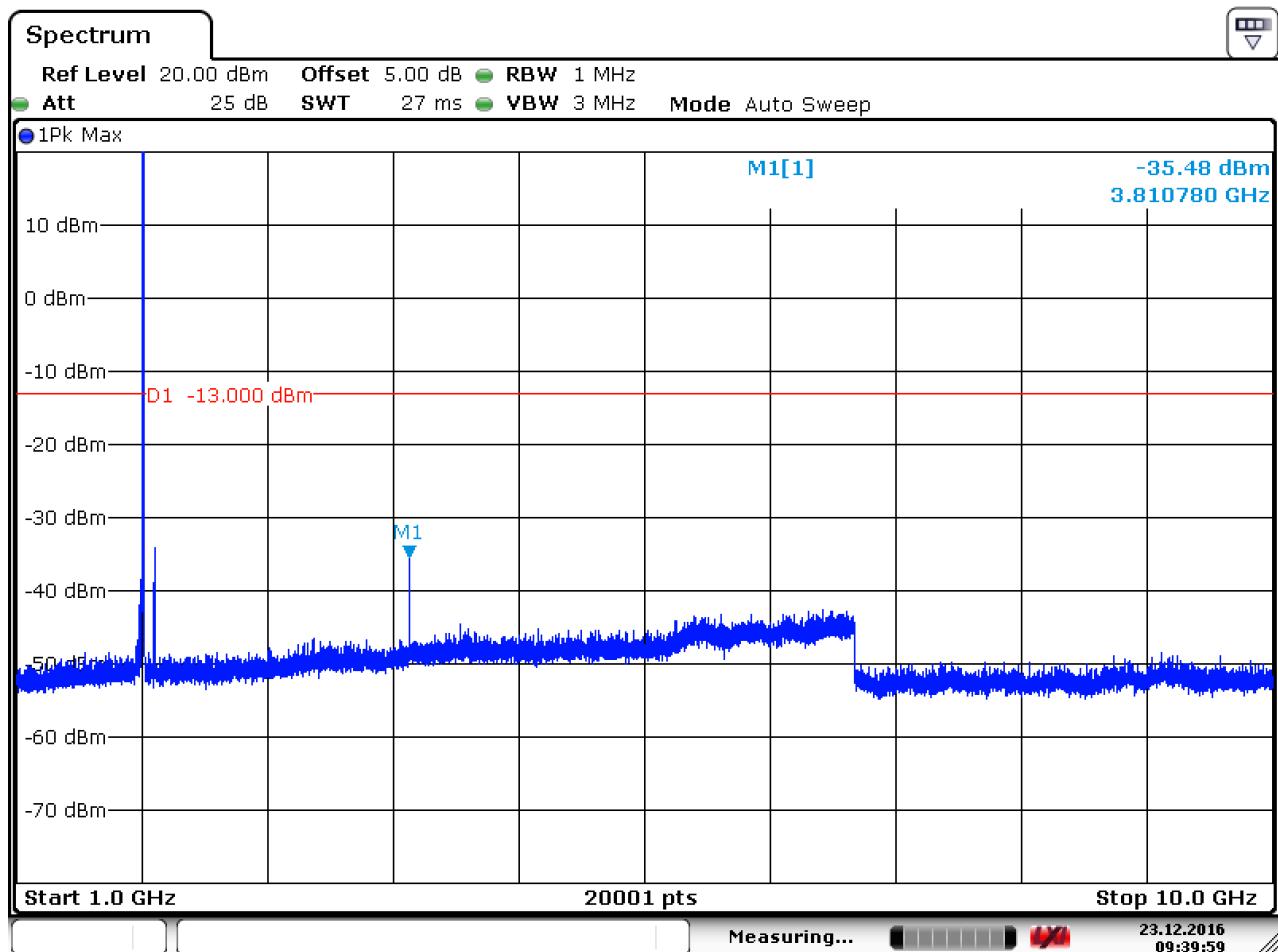
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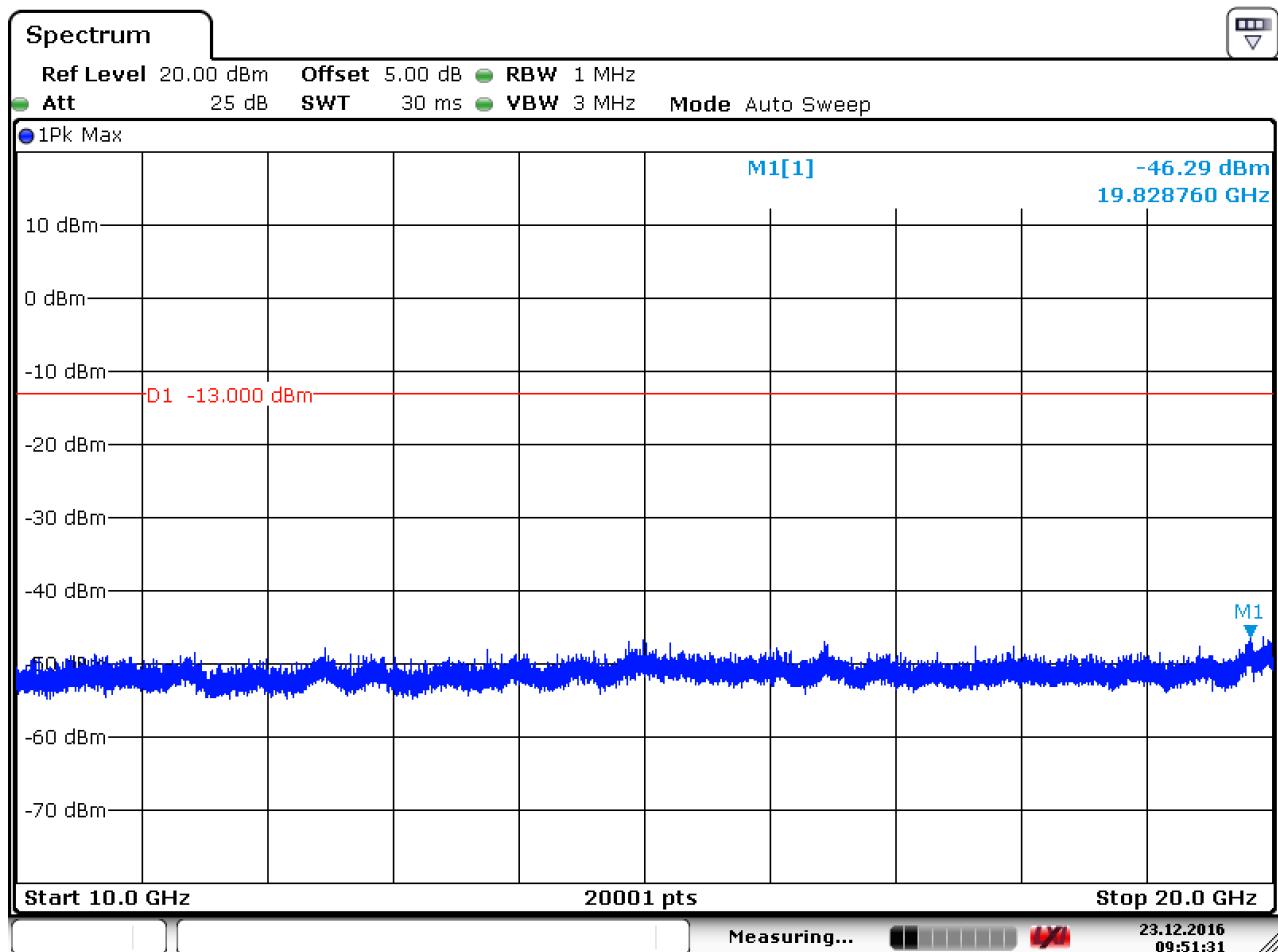
Date: 23.DEC.2016 09:51:11

6.1.1.3.3 Test Channel = HCH

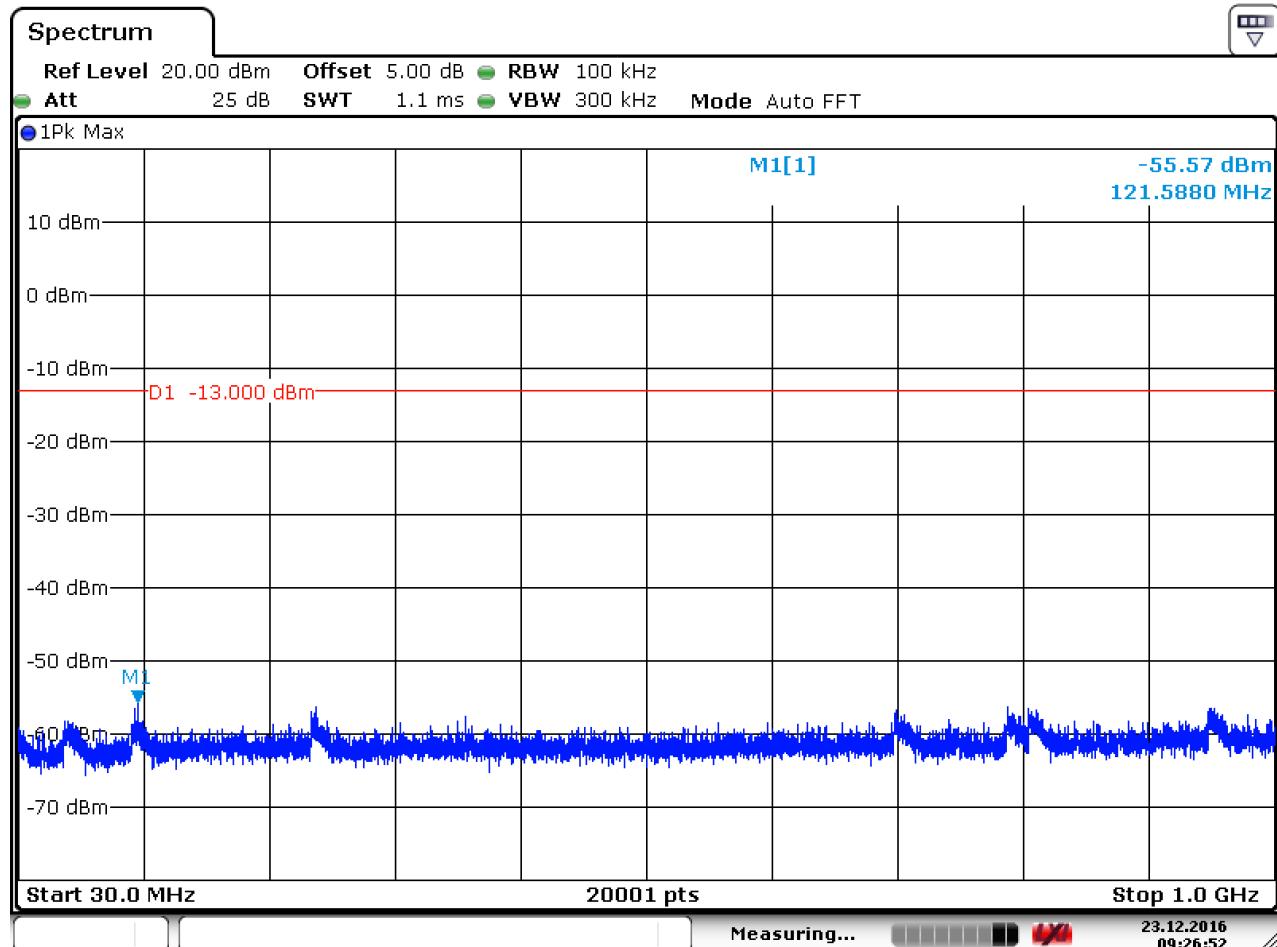
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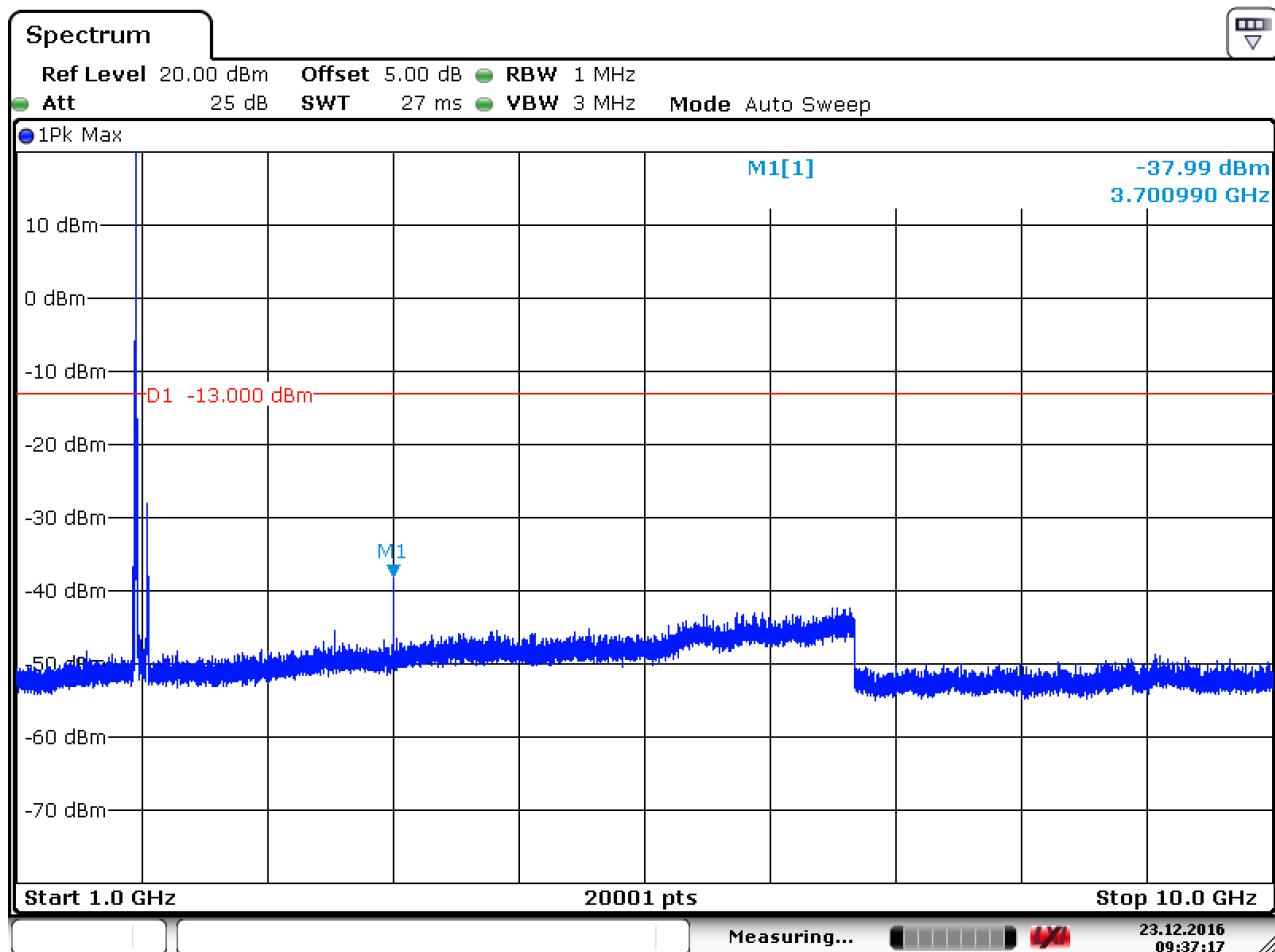
Date: 23.DEC.2016 09:40:00



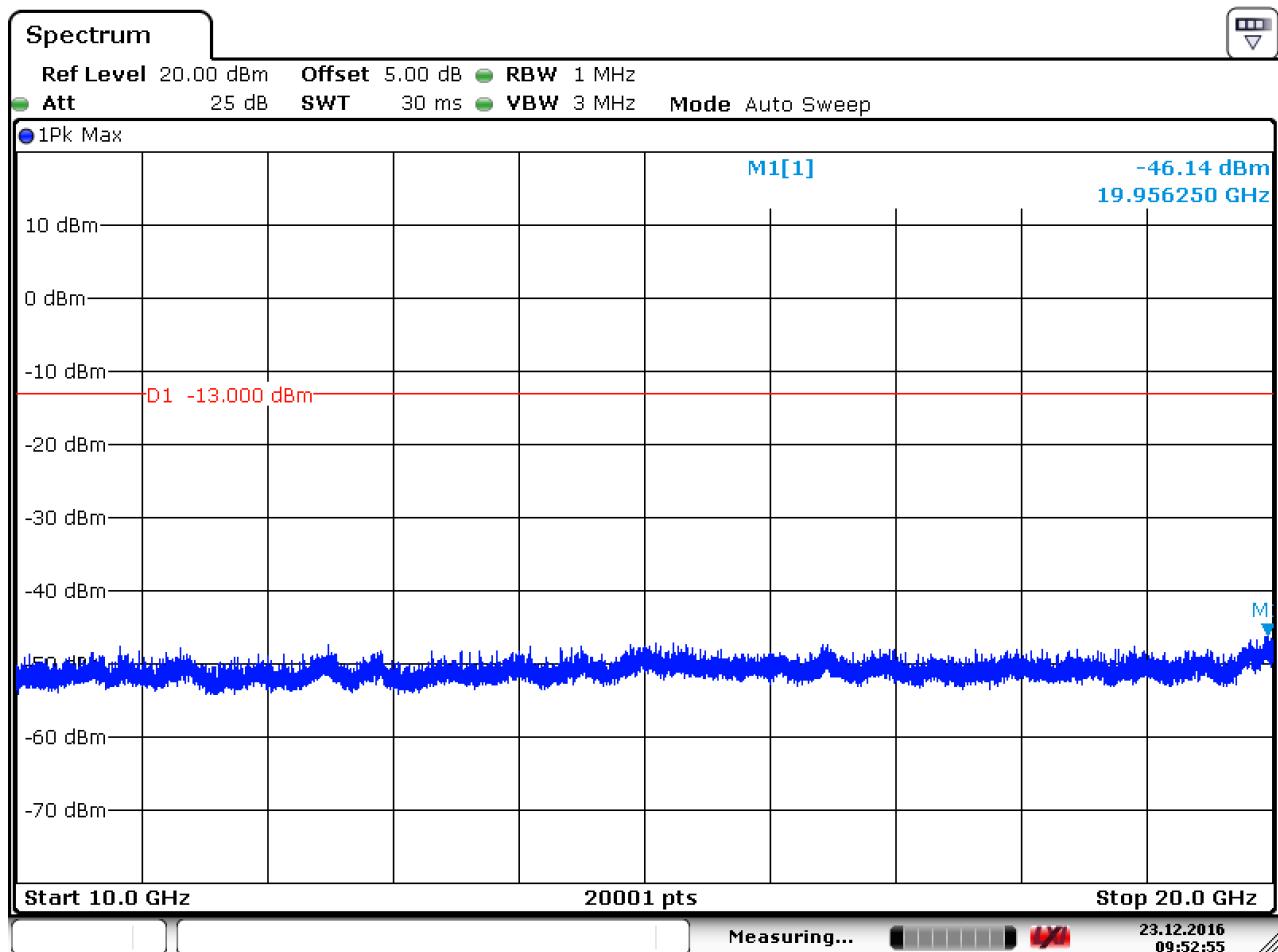
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6.1.1.4 Test Mode = LTE / TM1 10MHz RB1#0**6.1.1.4.1 Test Channel = LCH**

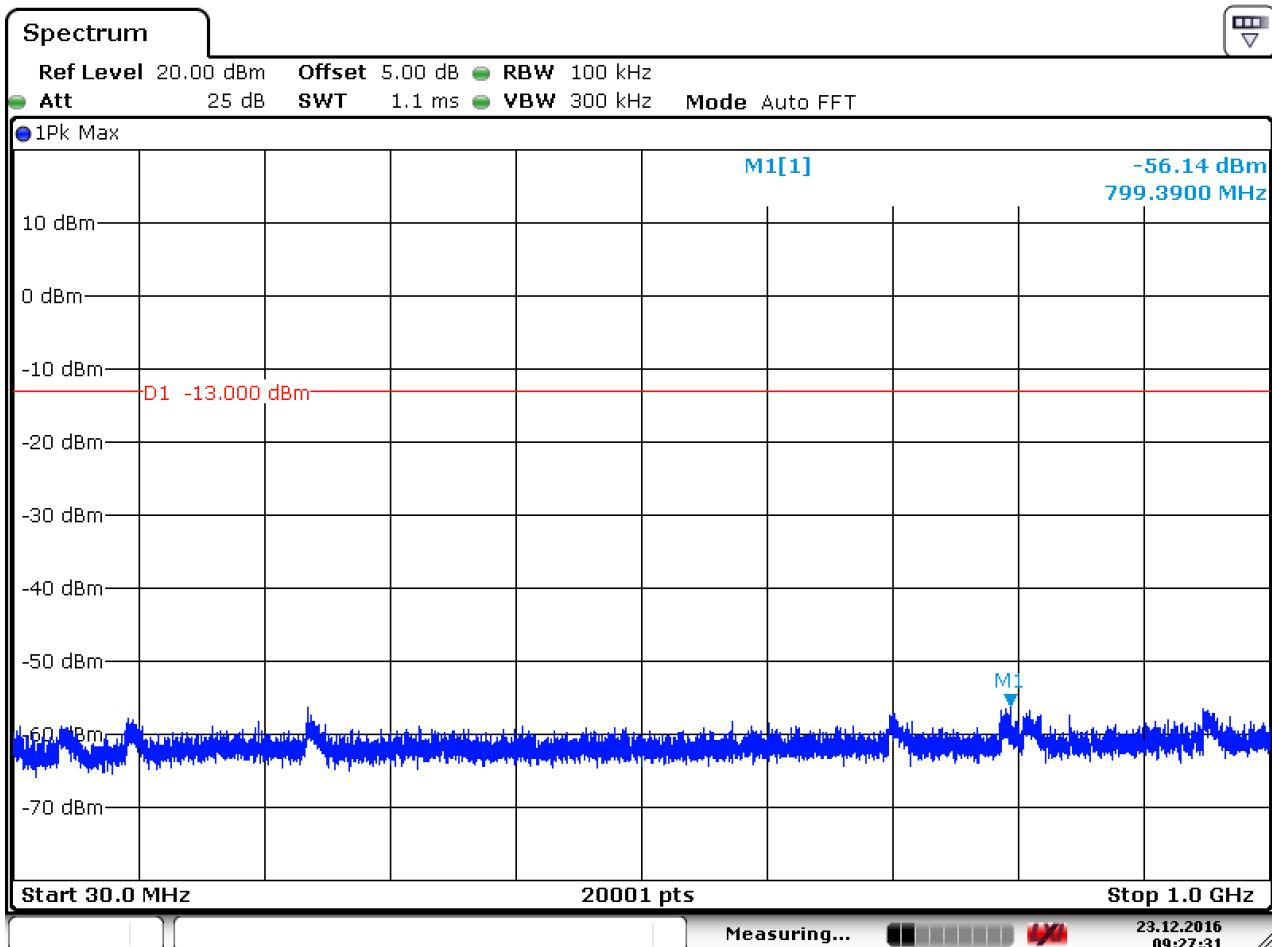
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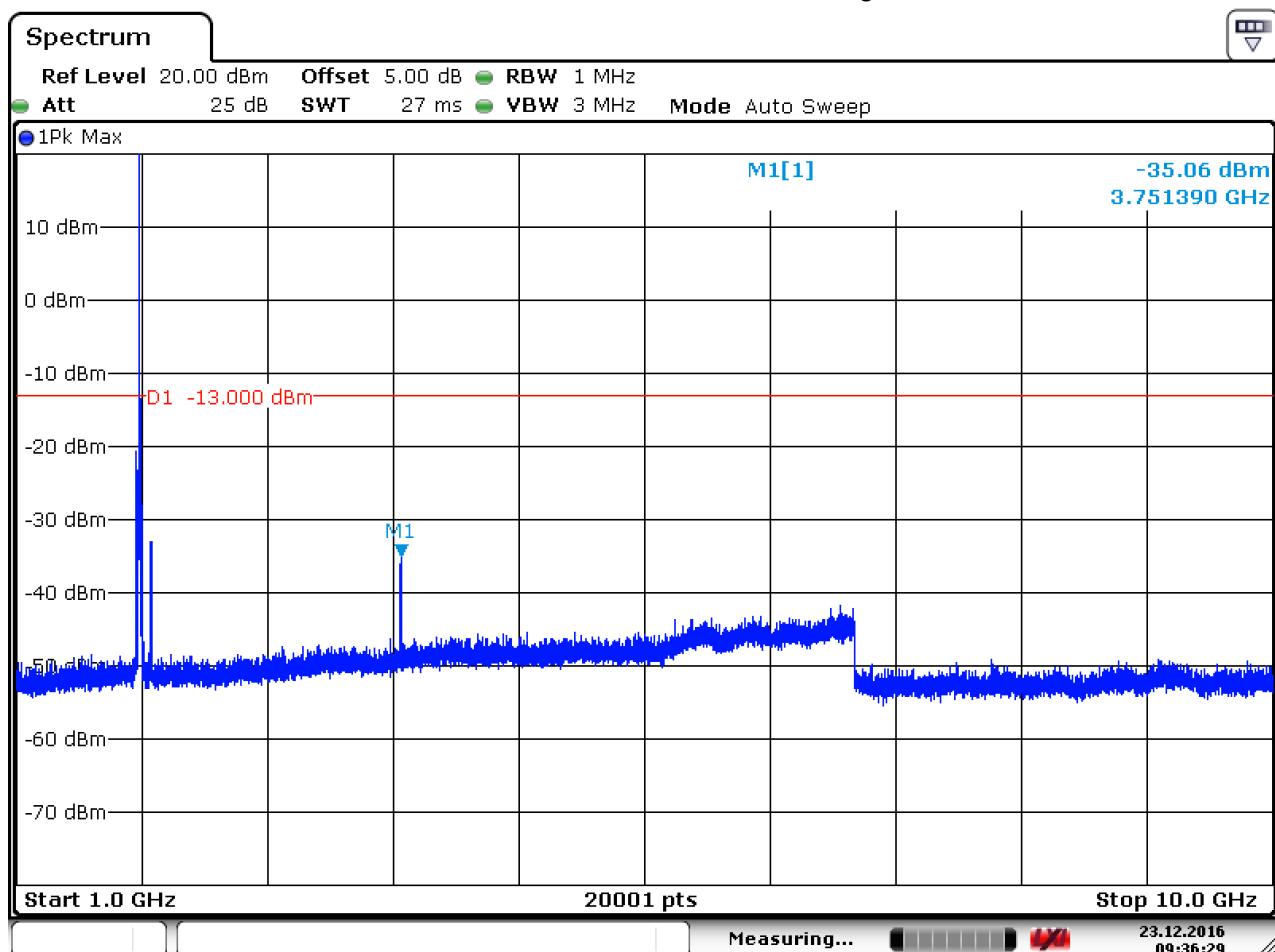
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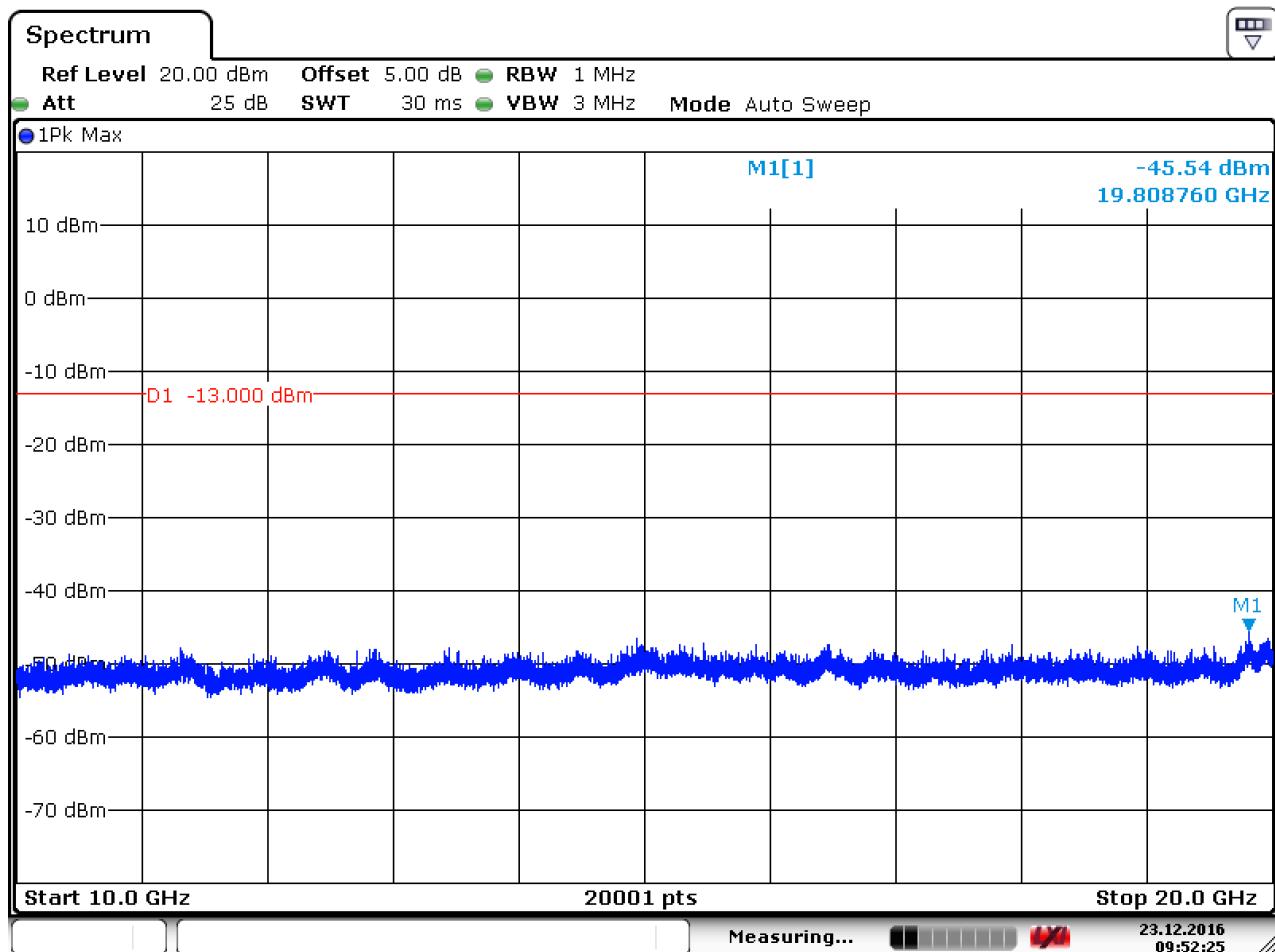


Date: 23.DEC.2016 09:52:55

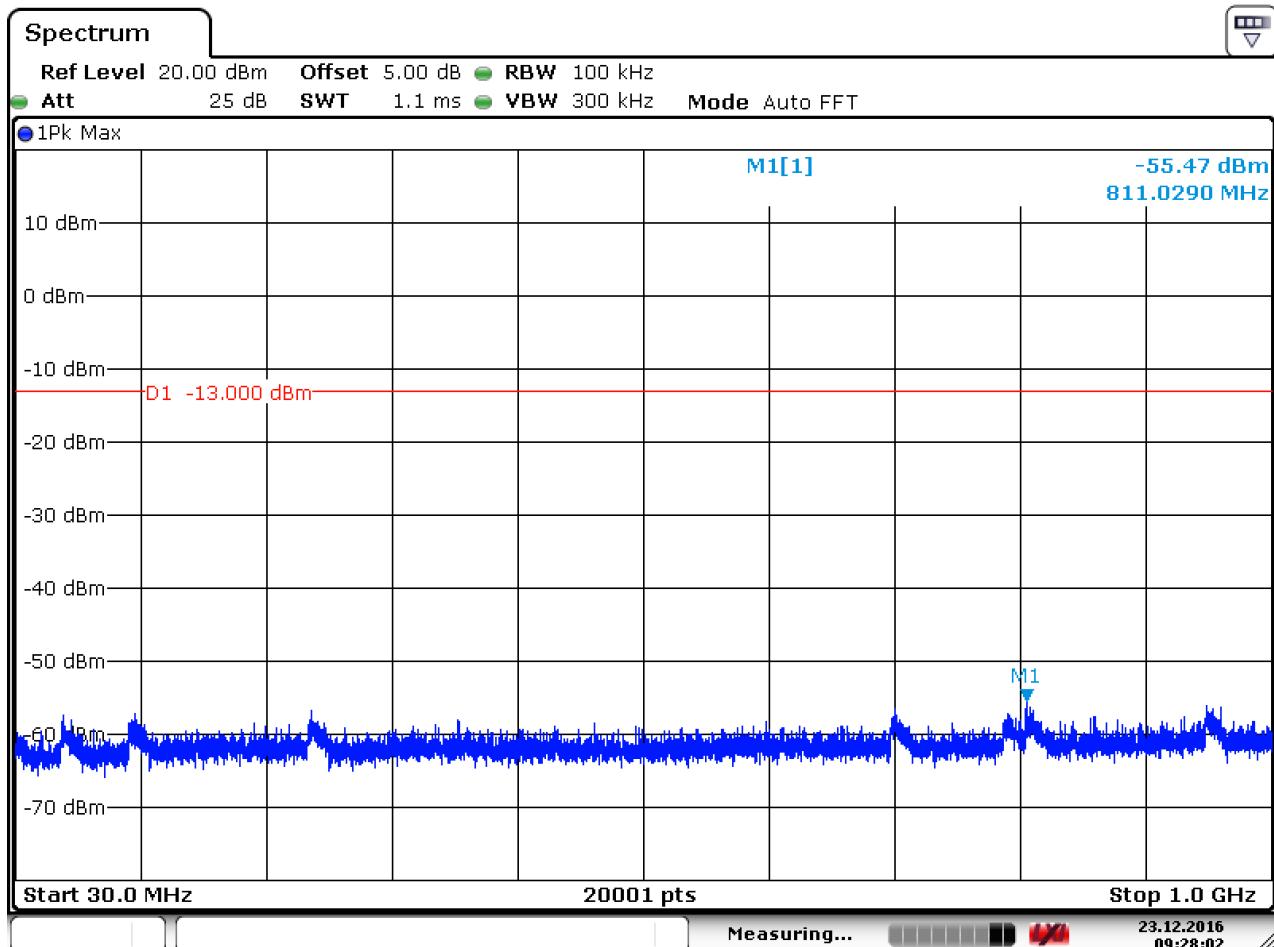
6.1.1.4.2 Test Channel = MCH

Date: 23.DEC.2016 09:27:31

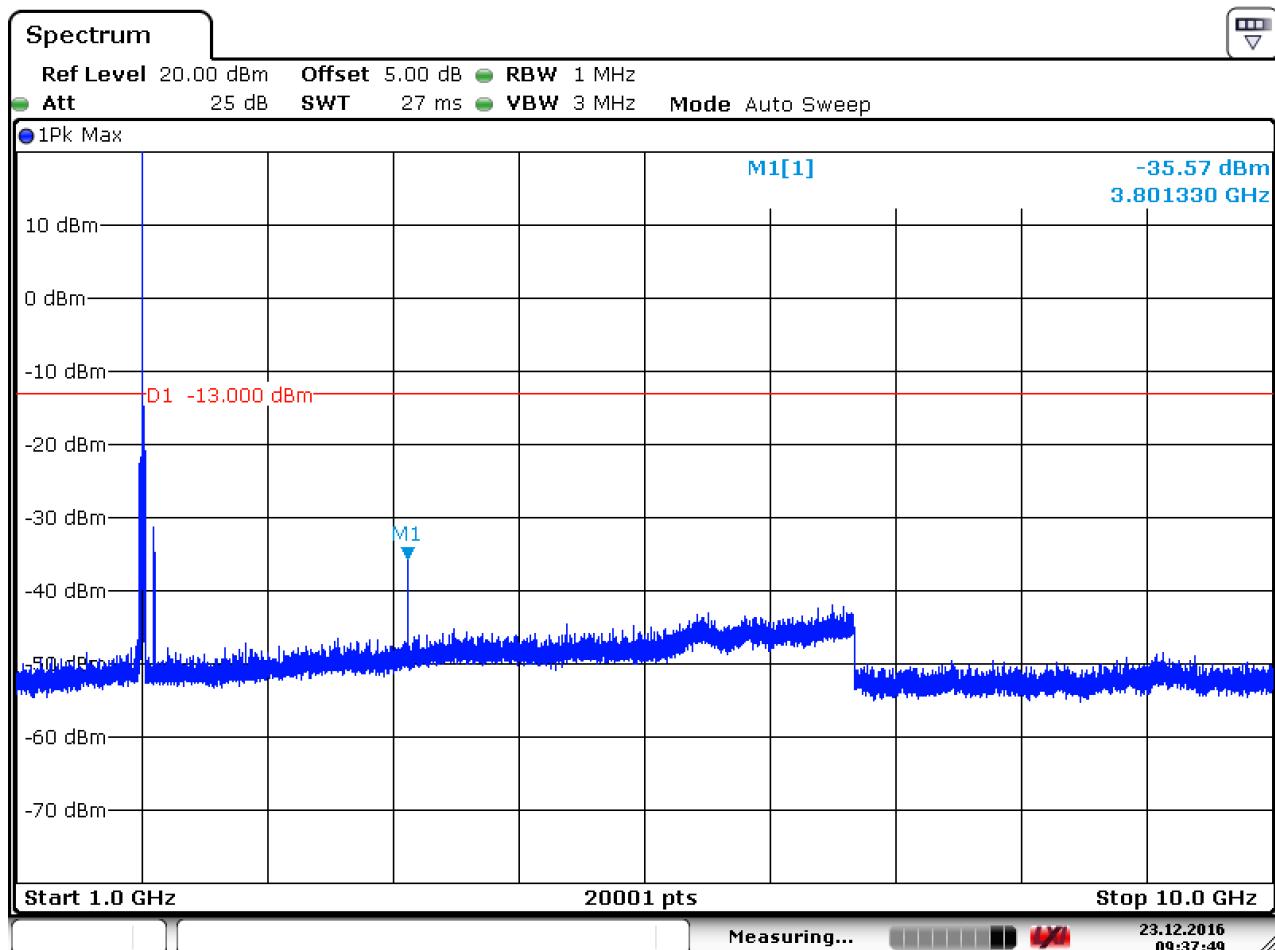




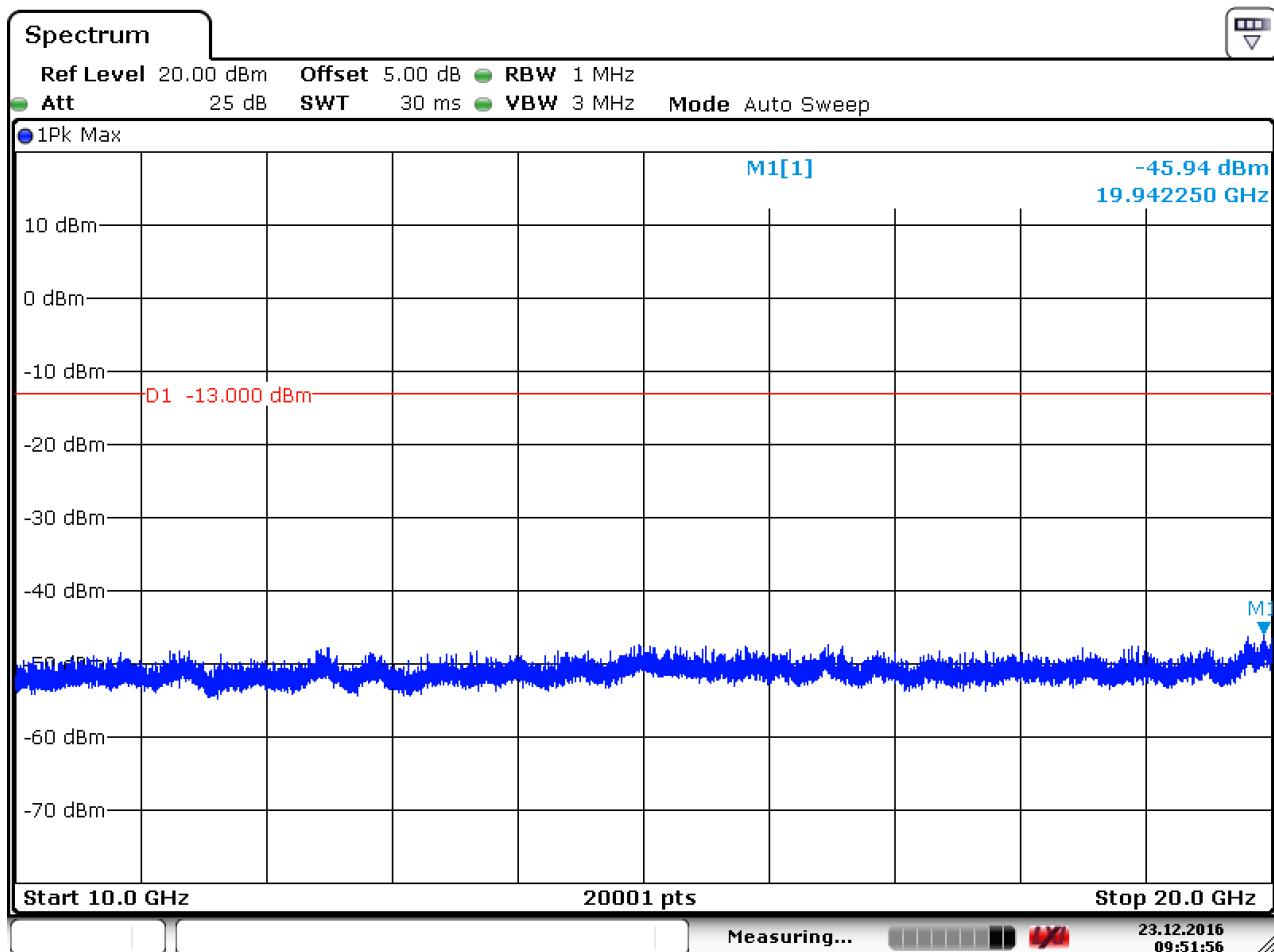
Date: 23.DEC.2016 09:52:25

6.1.1.4.3 Test Channel = HCH

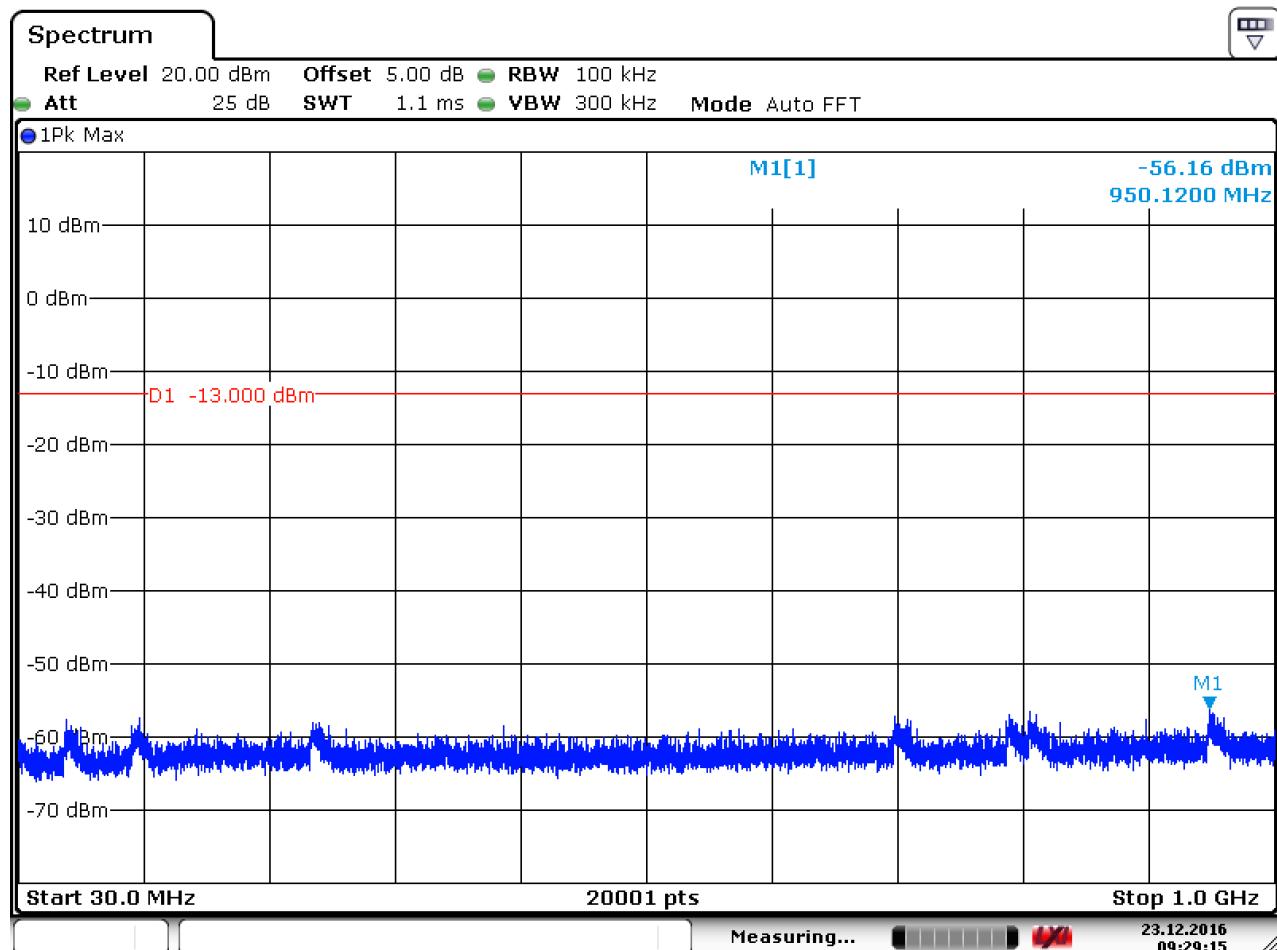
Date: 23.DEC.2016 09:28:02



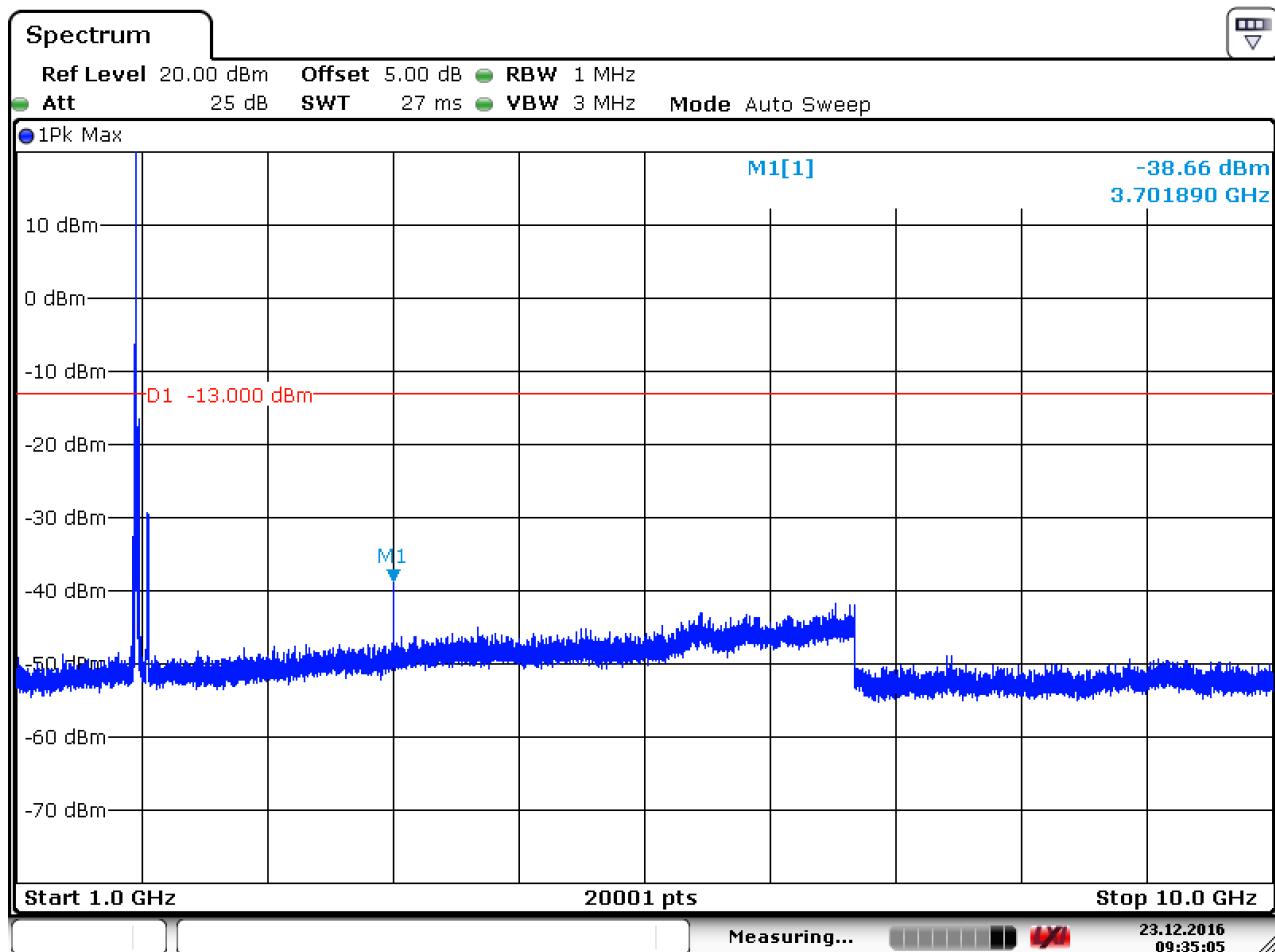
Date: 23.DEC.2016 09:37:50



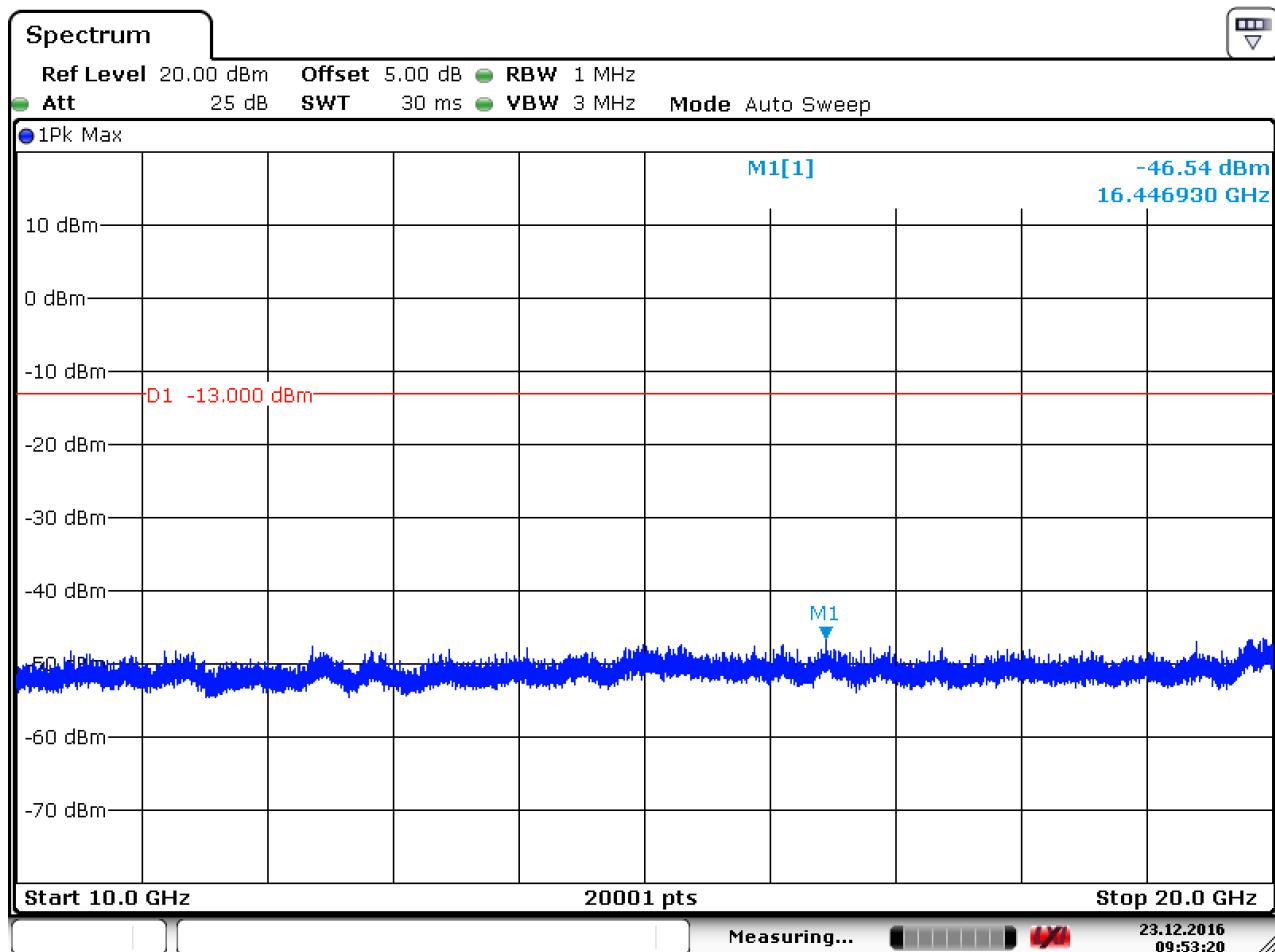
Date: 23.DEC.2016 09:51:57

6.1.1.5 Test Mode = LTE / TM1 15MHz RB1#0**6.1.1.5.1 Test Channel = LCH**

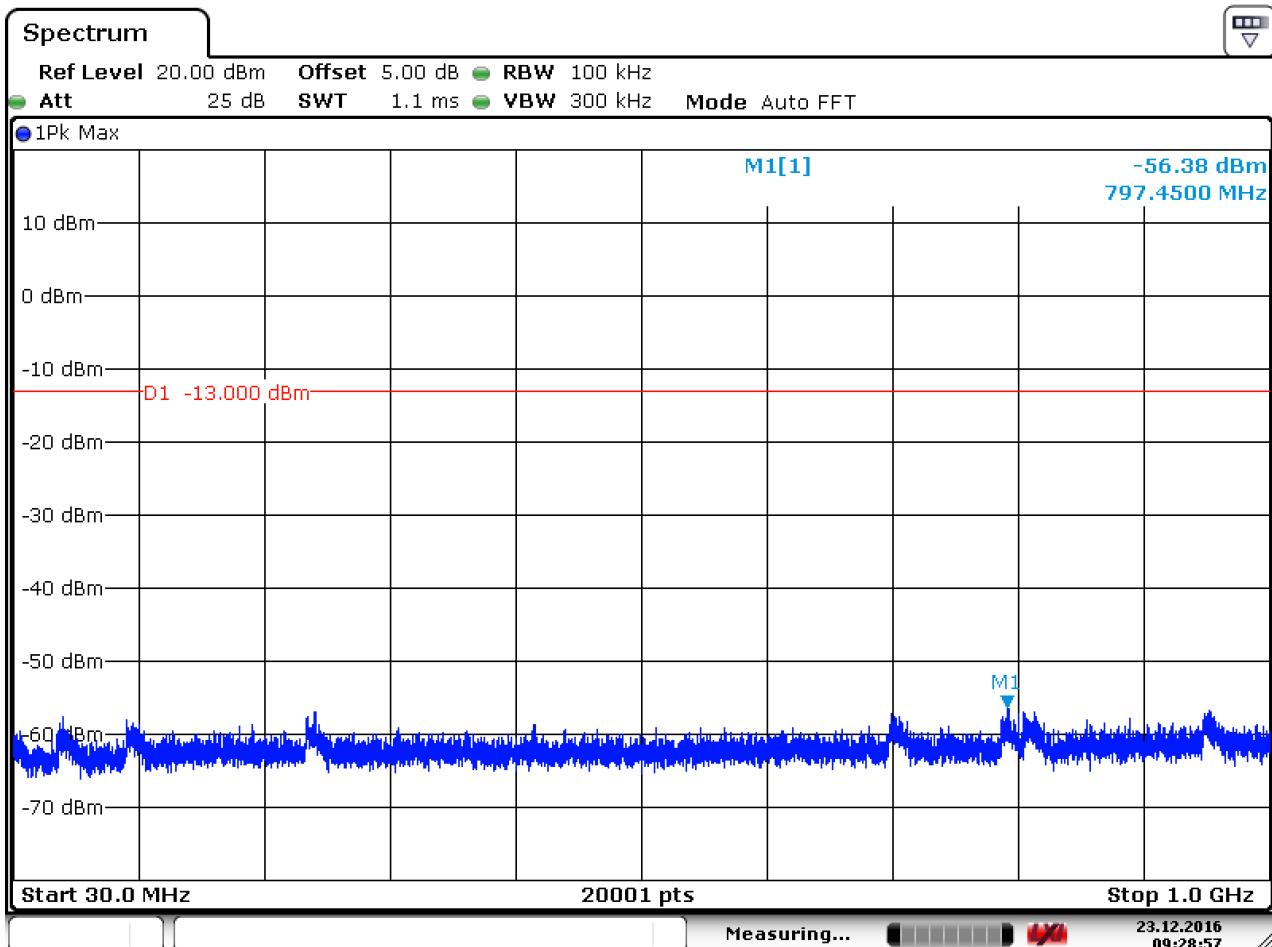
Date: 23.DEC.2016 09:29:16



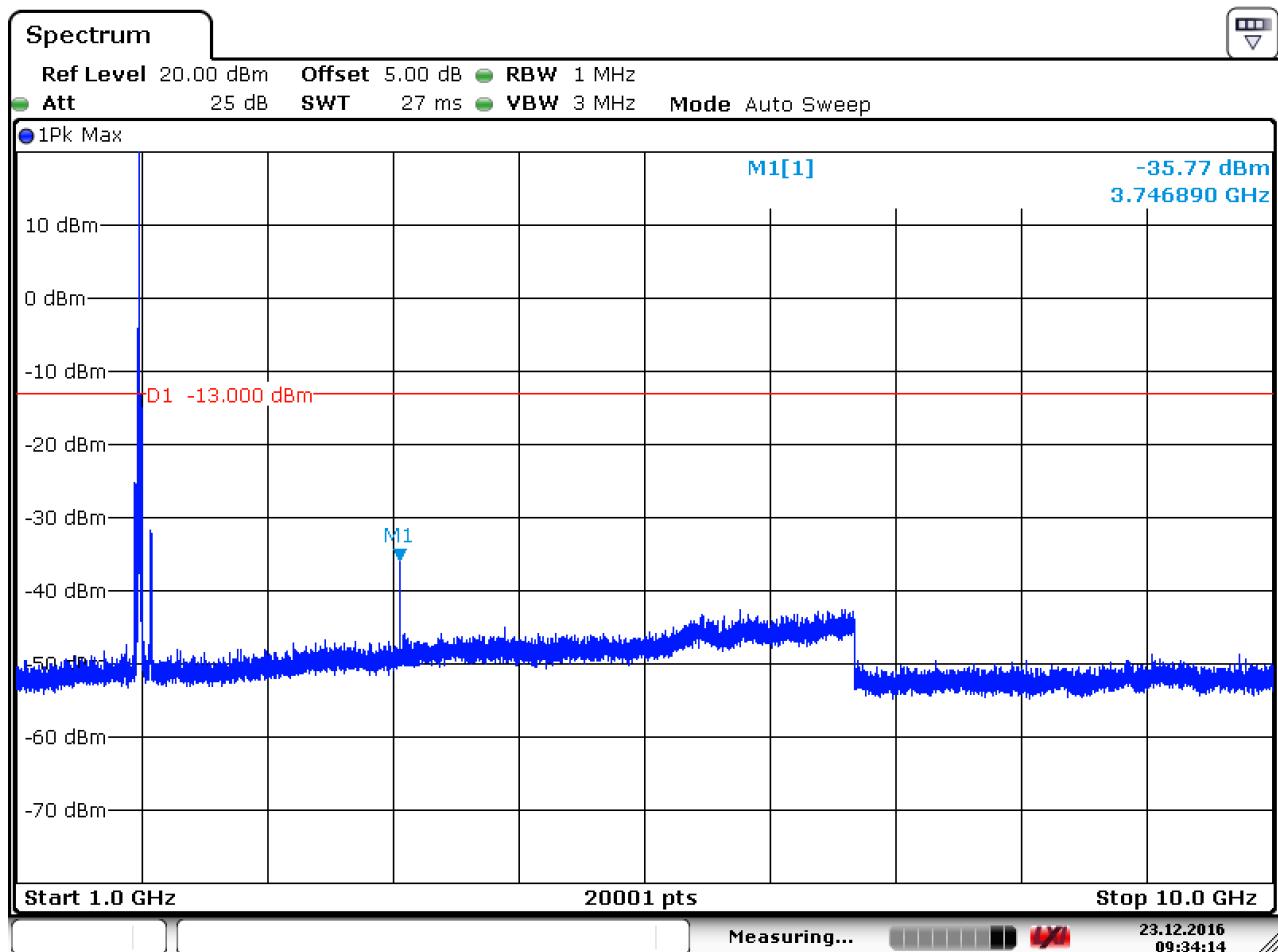
Date: 23.DEC.2016 09:35:05



Date: 23.DEC.2016 09:53:20

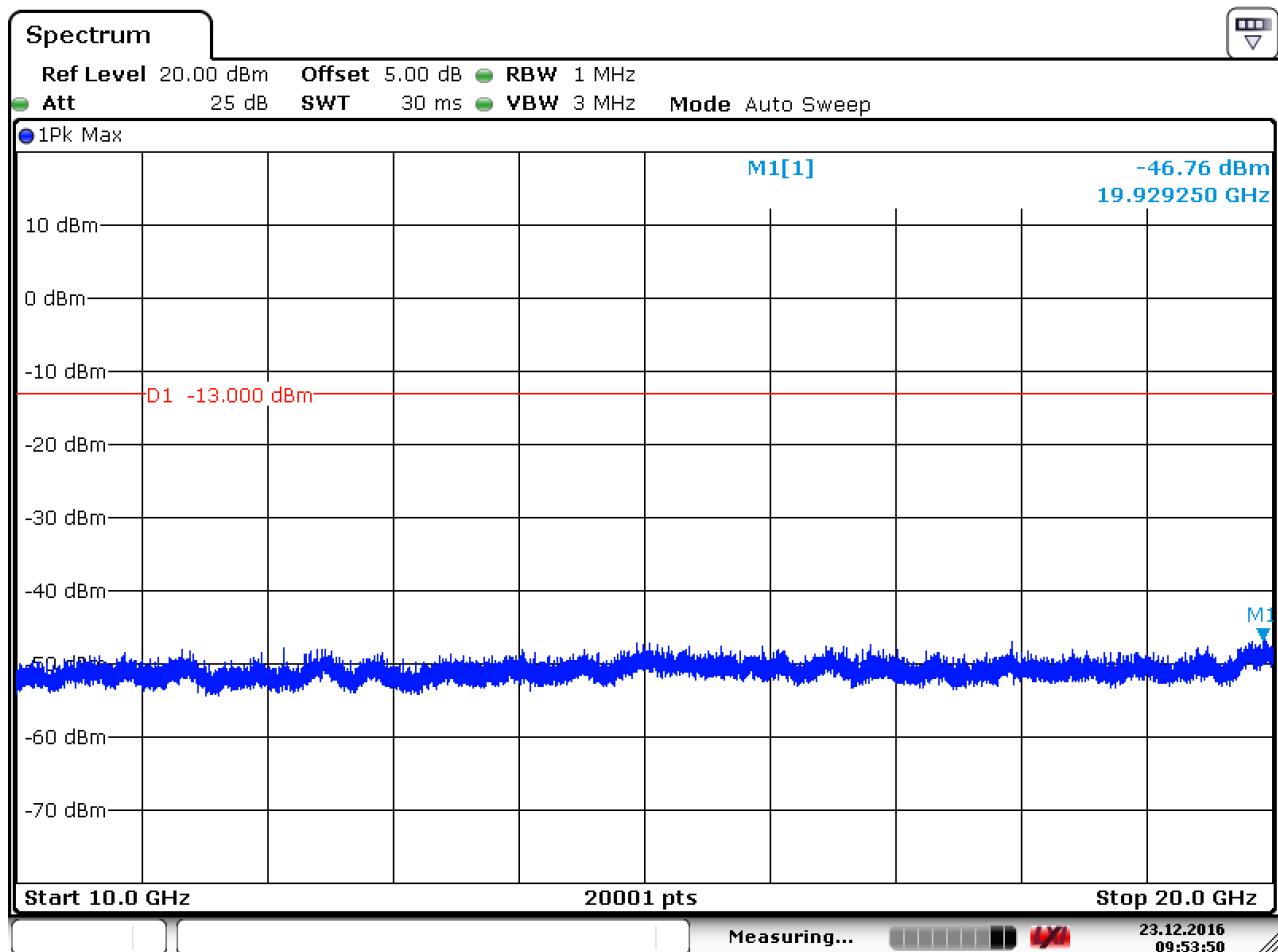
6.1.1.5.2 Test Channel = MCH

Date: 23.DEC.2016 09:28:57

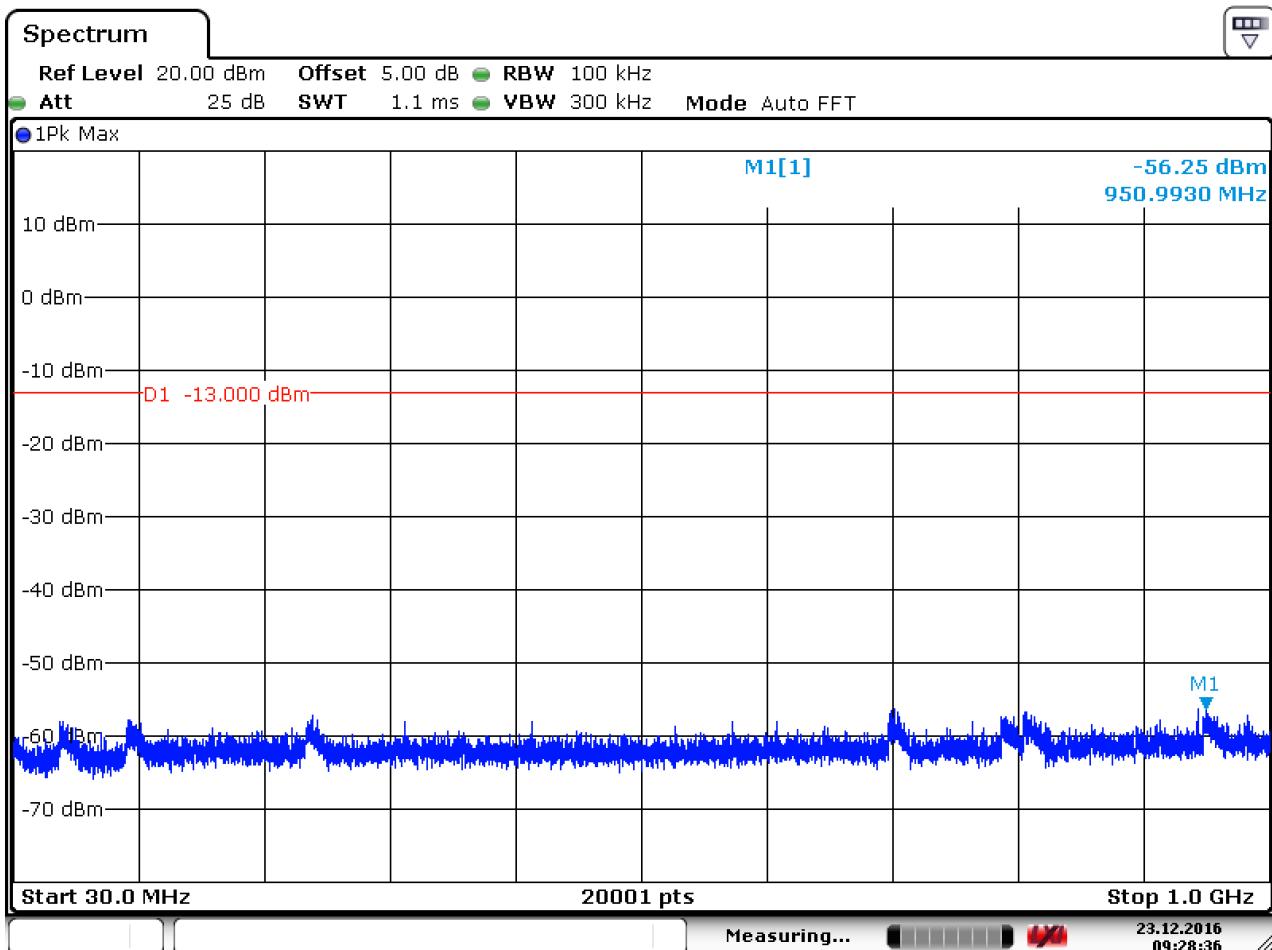


Date: 23.DEC.2016 09:34:15

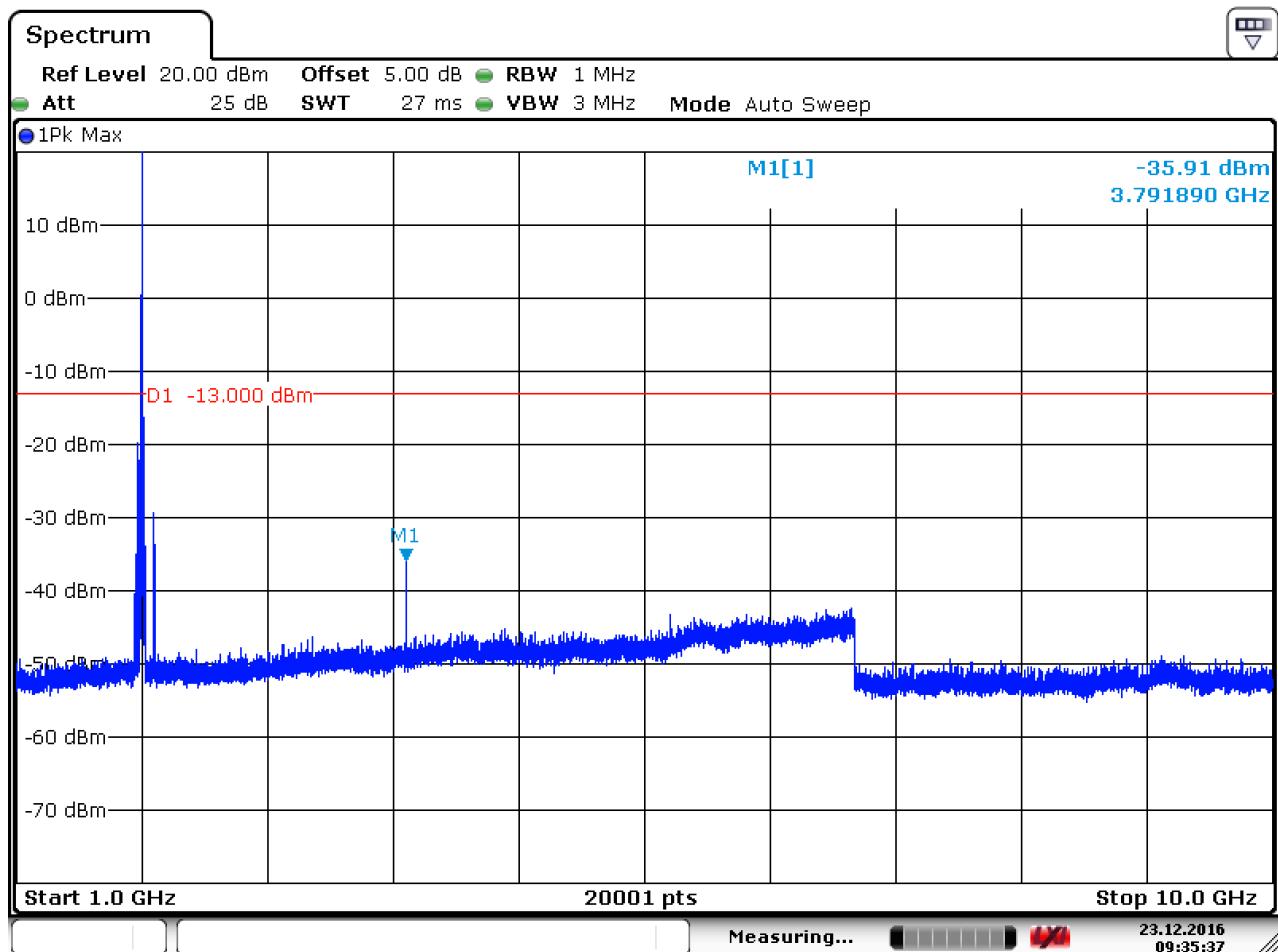
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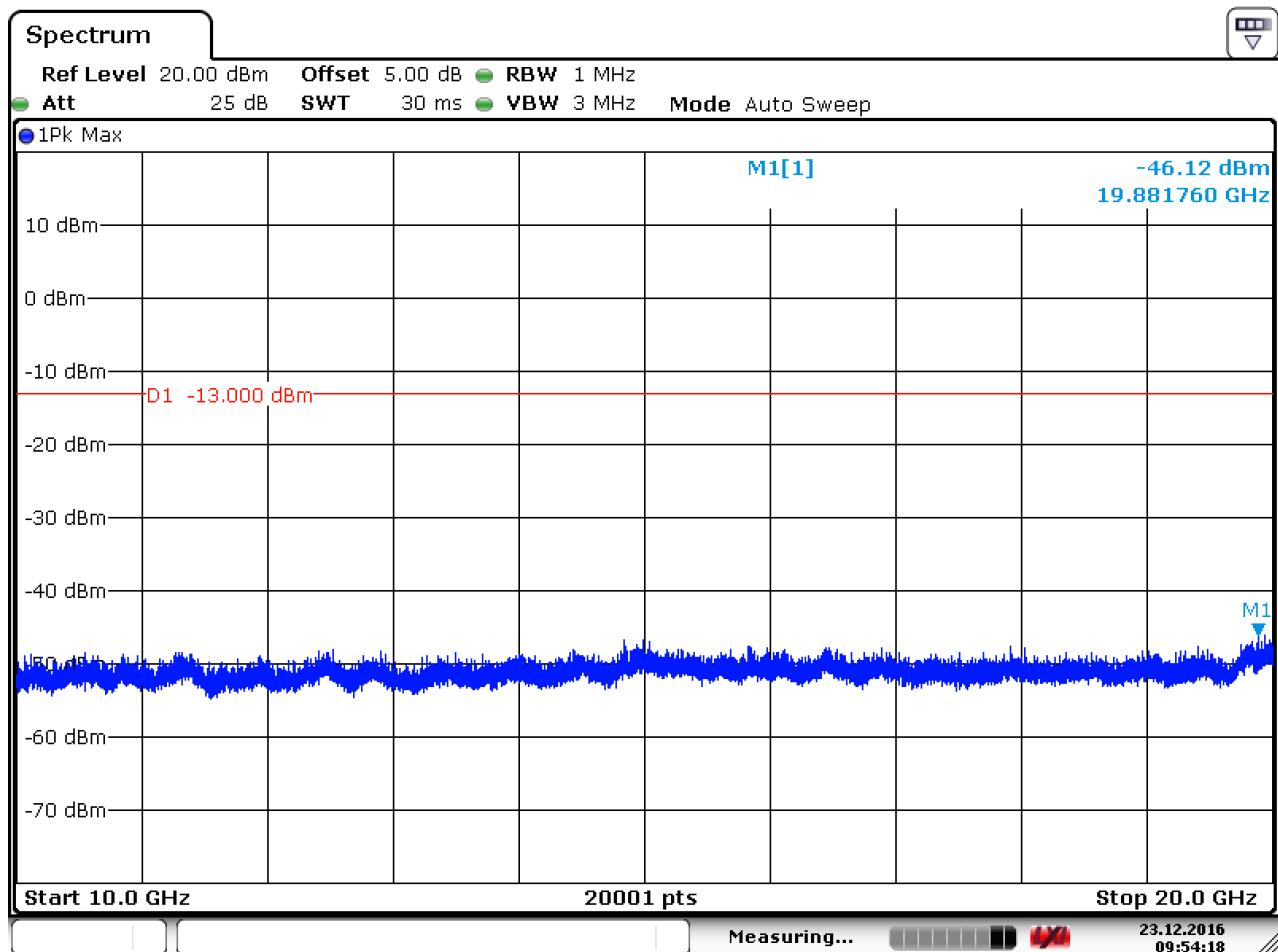
Date: 23.DEC.2016 09:53:51

6.1.1.5.3 Test Channel = HCH

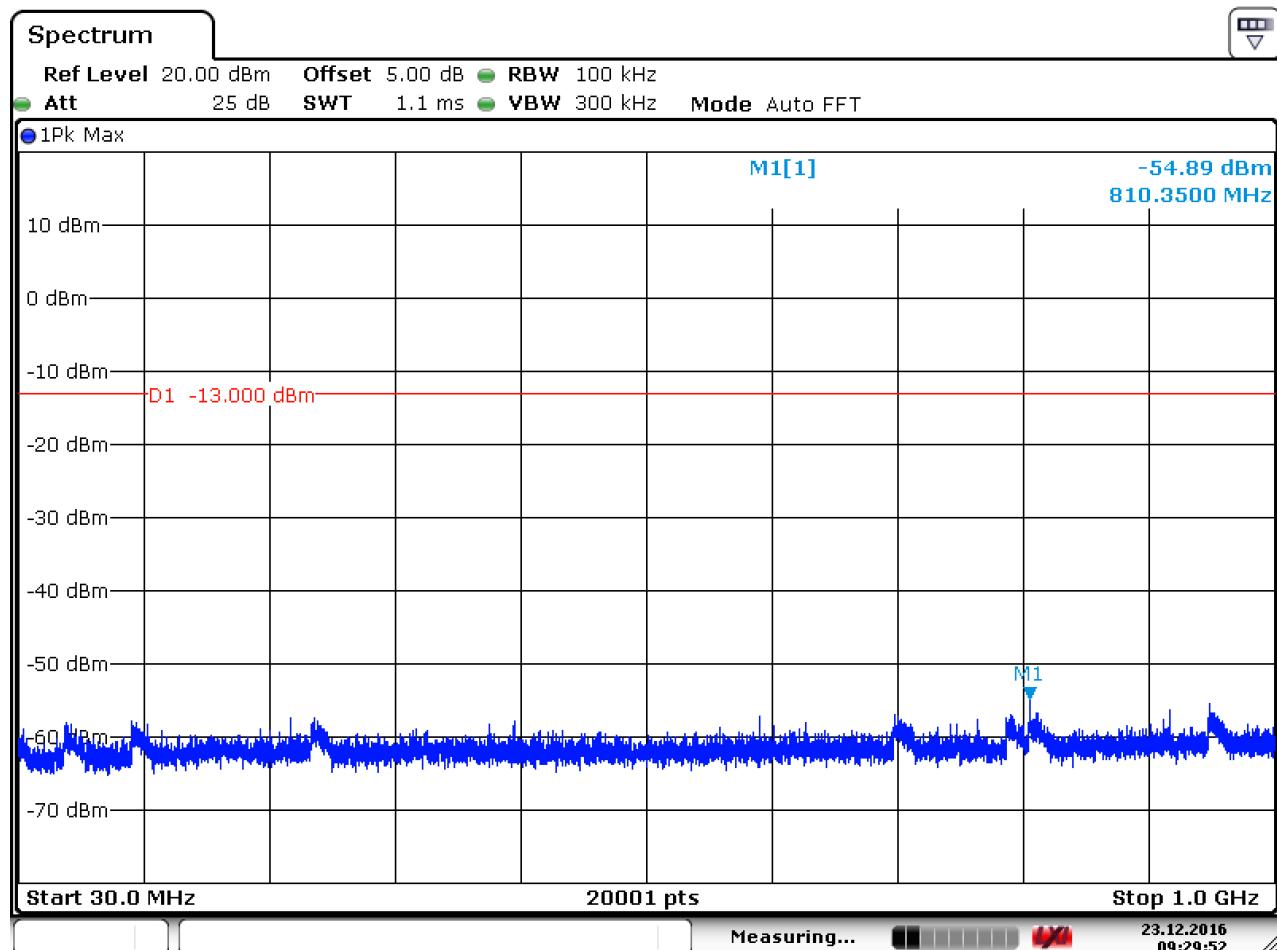
Date: 23.DEC.2016 09:28:37



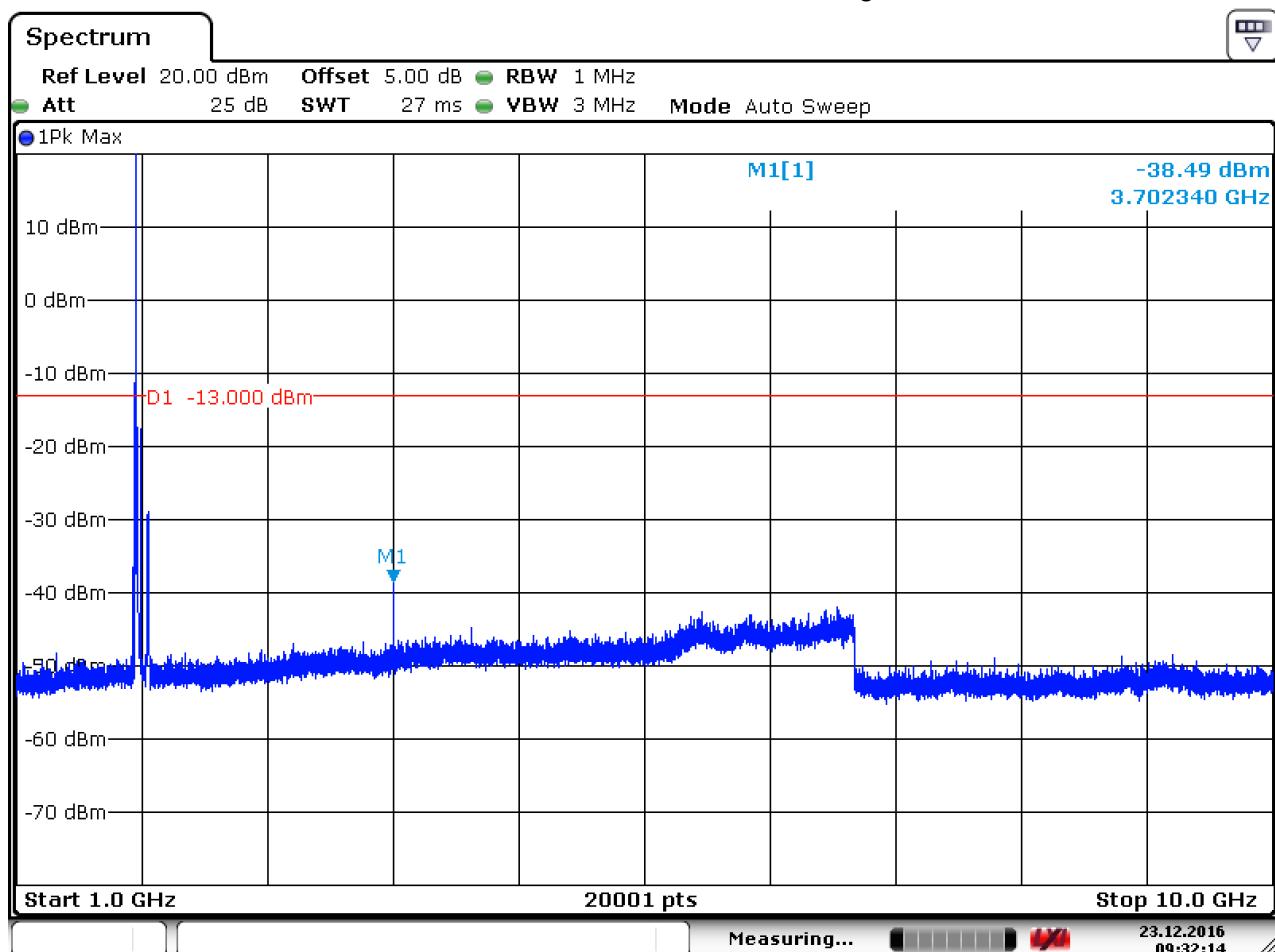
Date: 23.DEC.2016 09:35:37



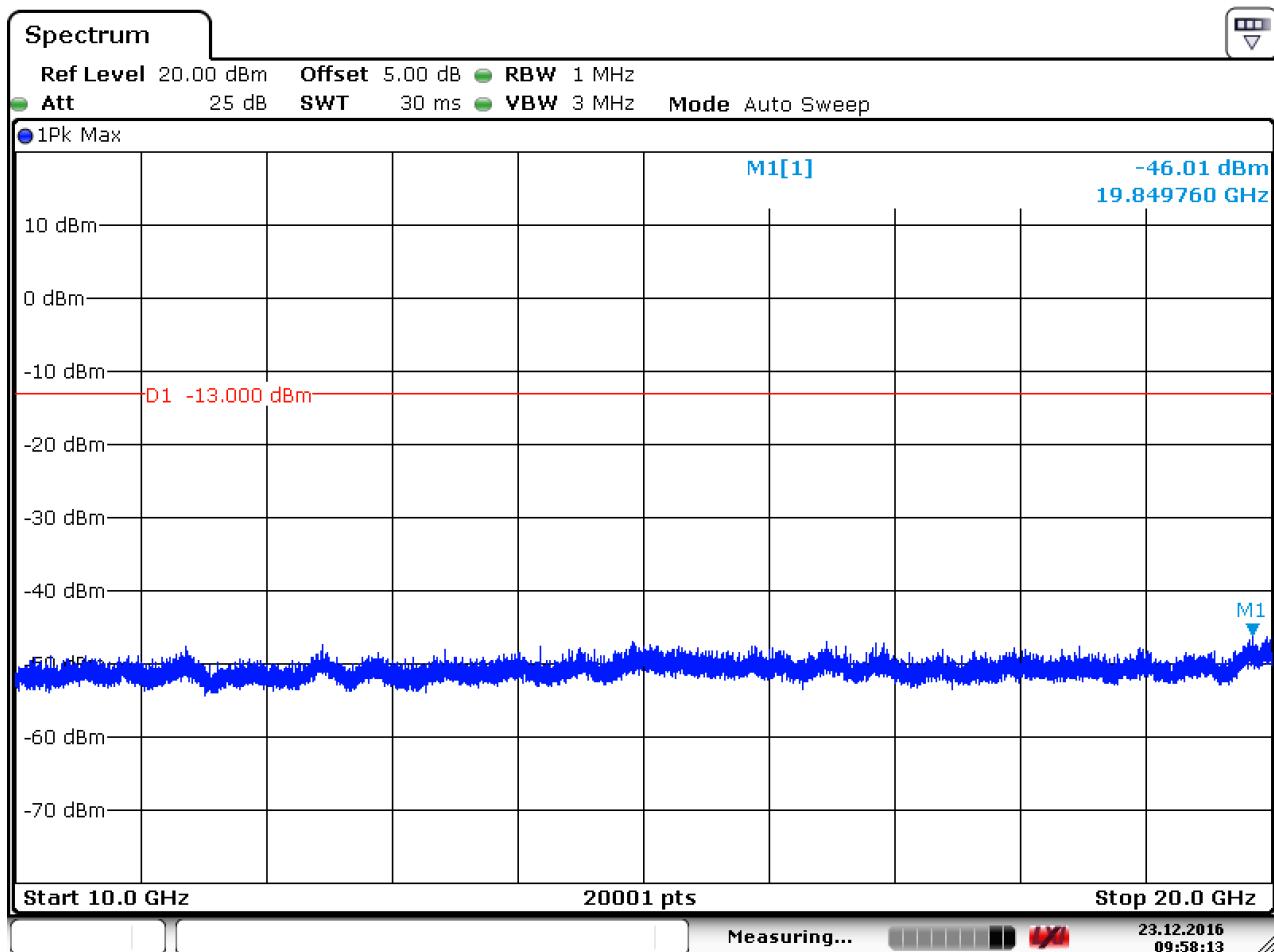
Date: 23.DEC.2016 09:54:18

6.1.1.6 Test Mode = LTE / TM1 20MHz RB1#0**6.1.1.6.1 Test Channel = LCH**

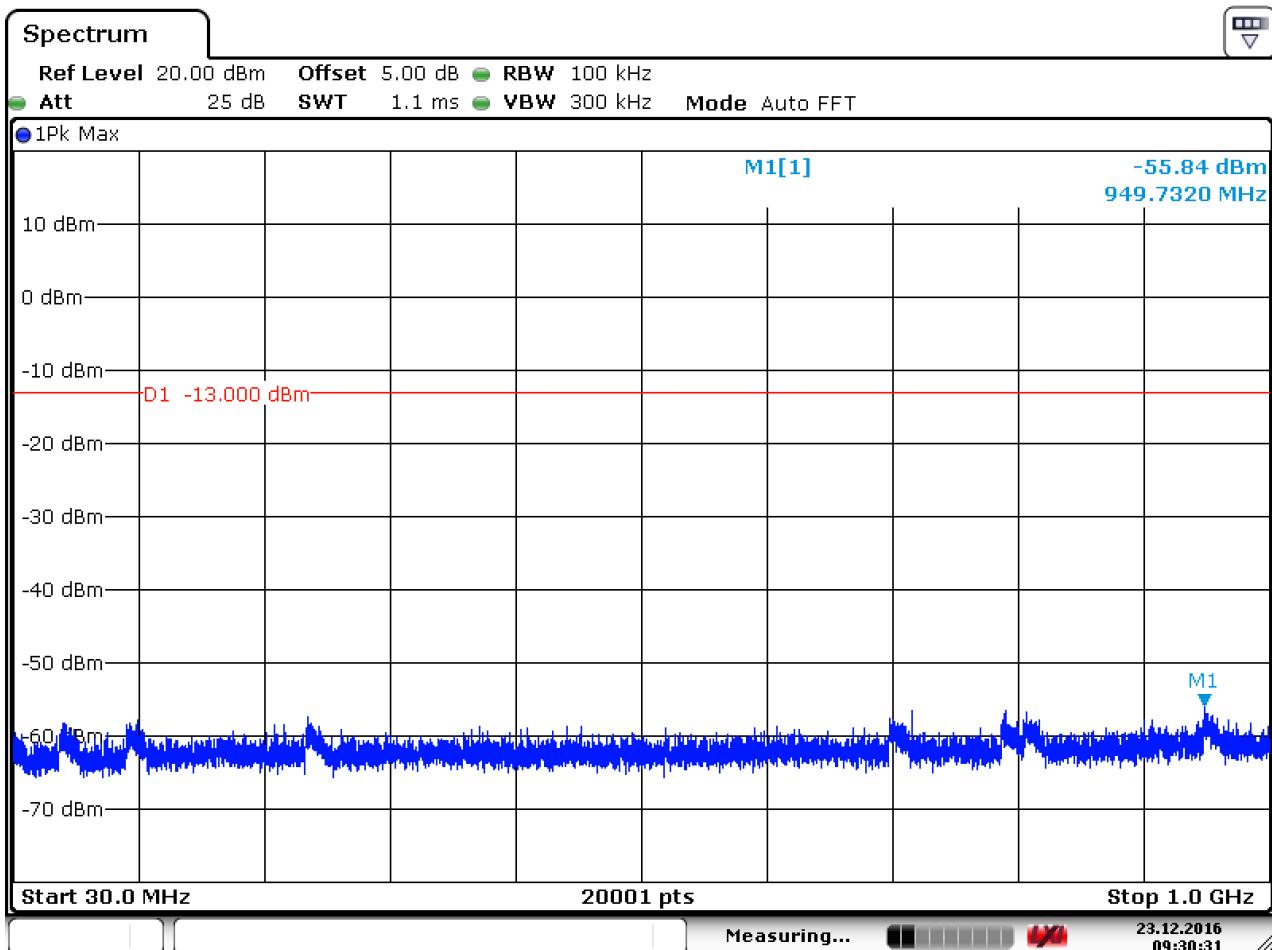
Date: 23.DEC.2016 09:29:51



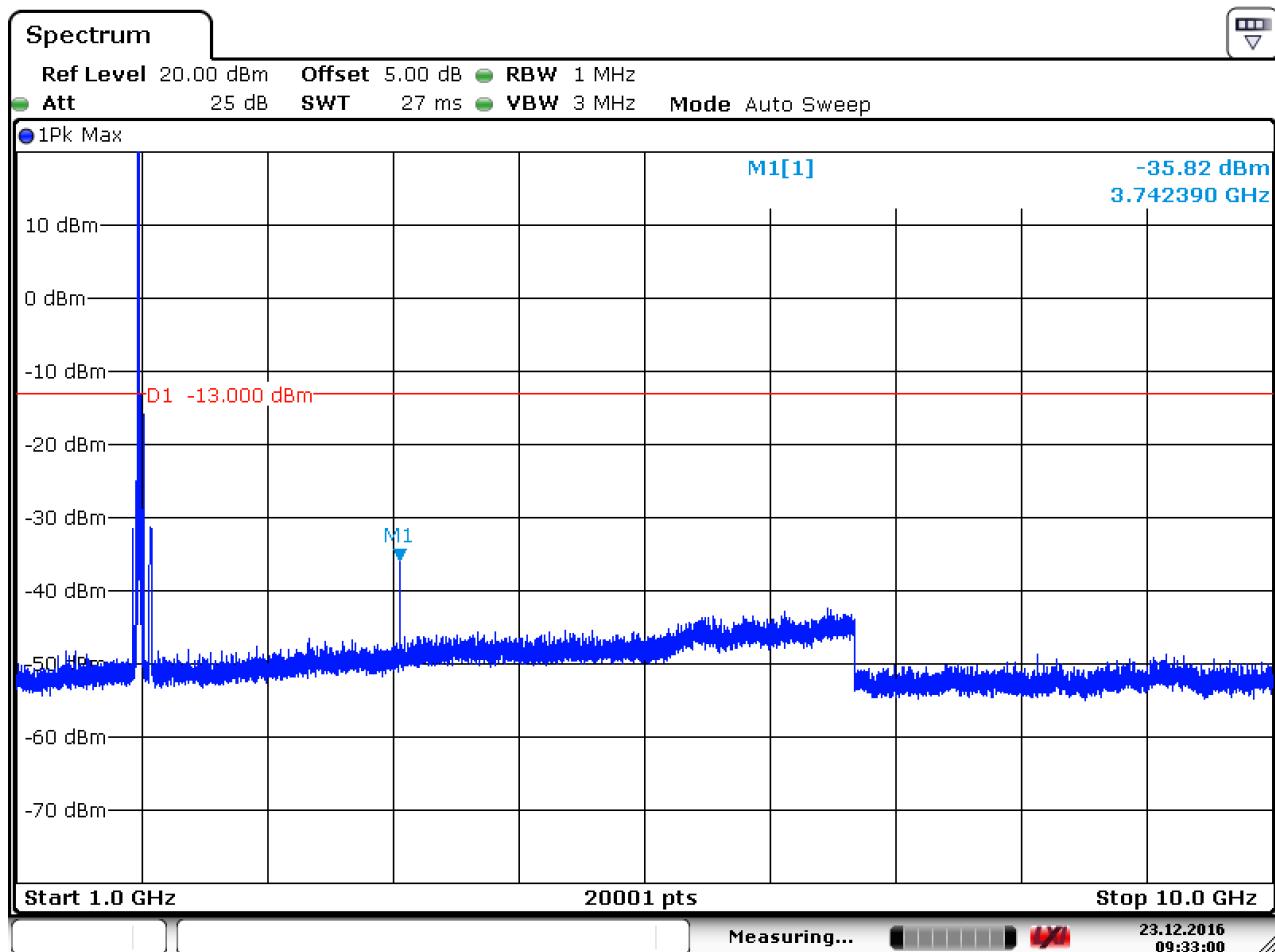
Date: 23.DEC.2016 09:32:15



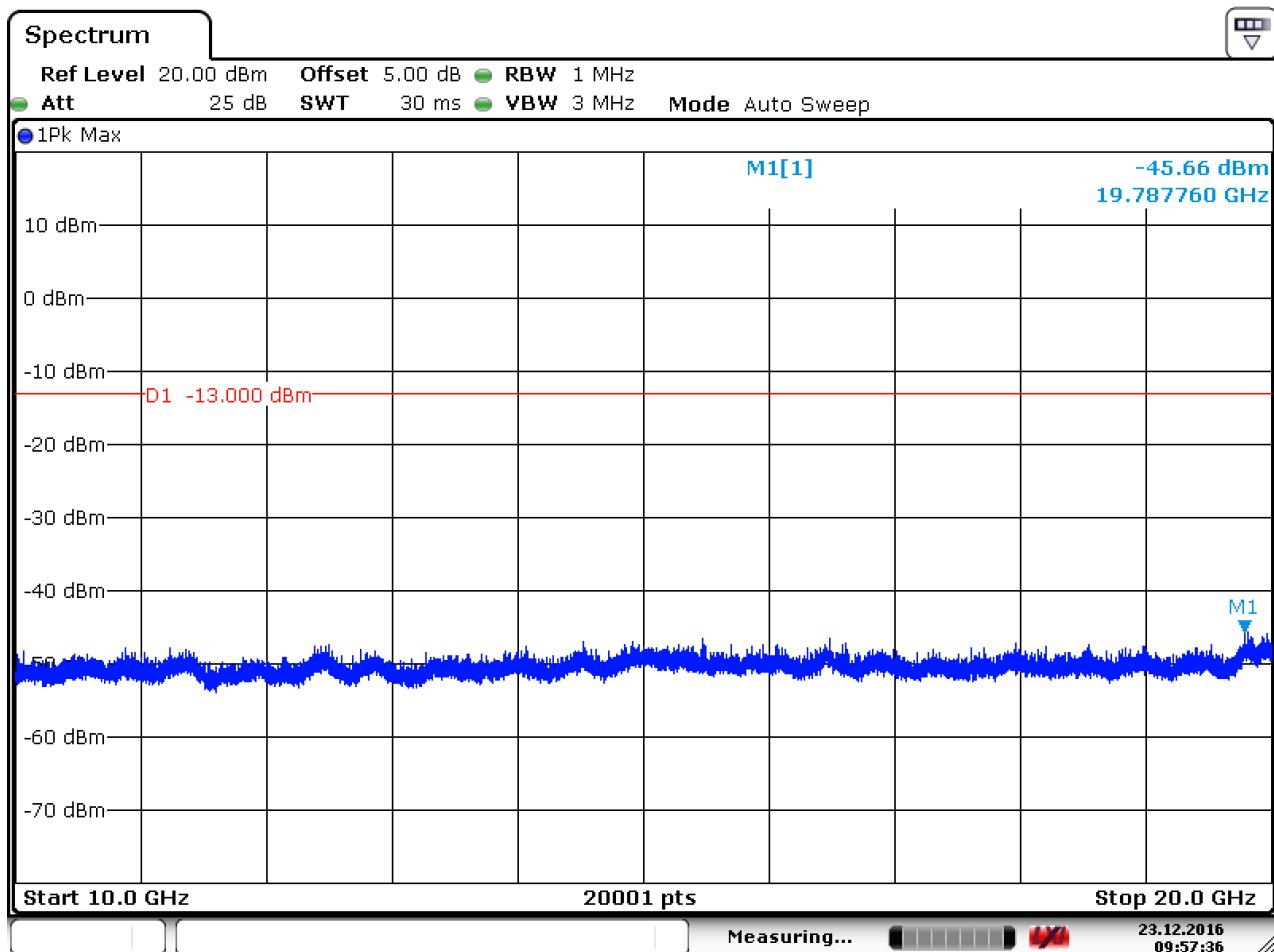
Date: 23.DEC.2016 09:58:13

6.1.1.6.2 Test Channel = MCH

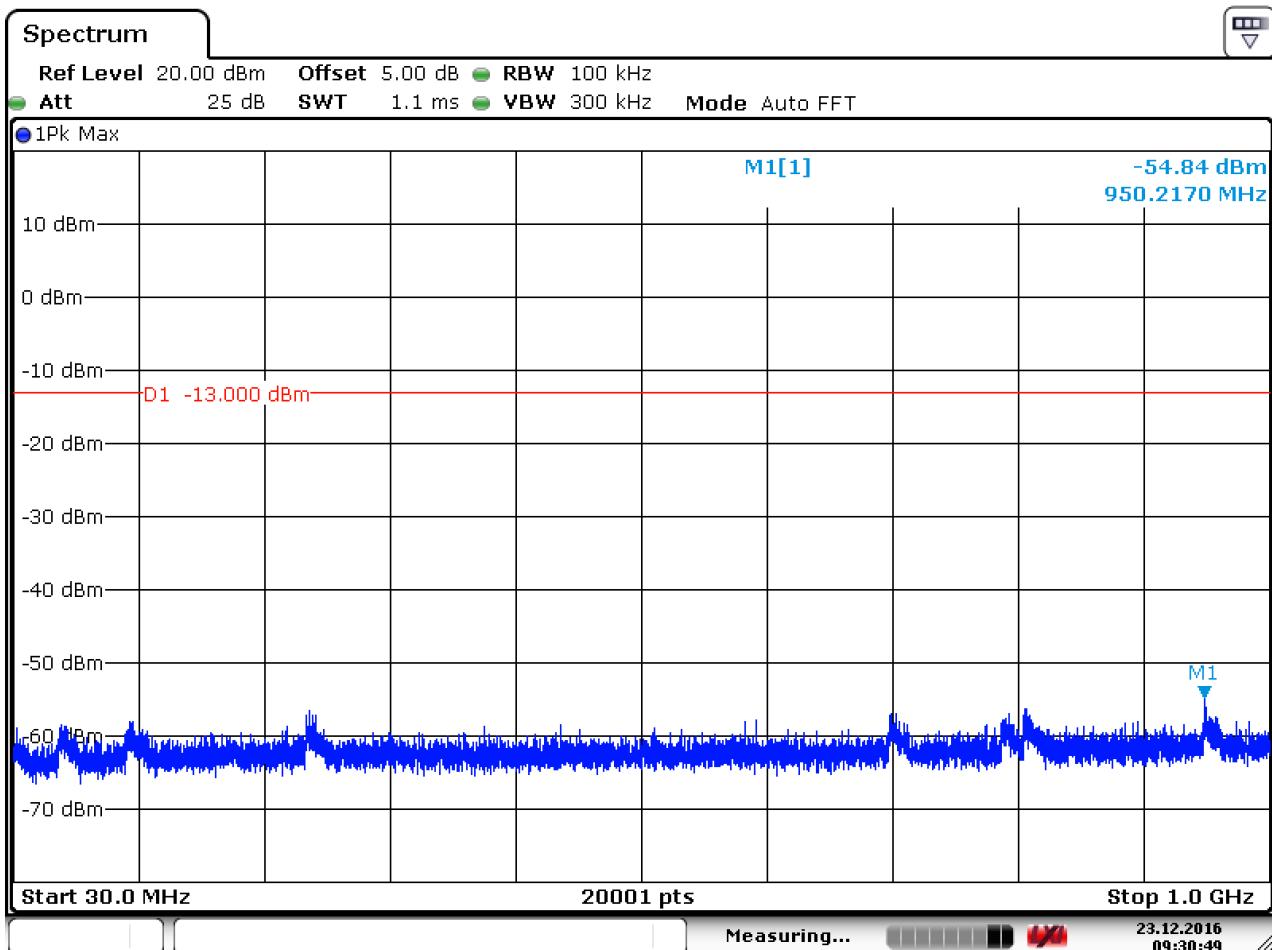
Date: 23.DEC.2016 09:30:31



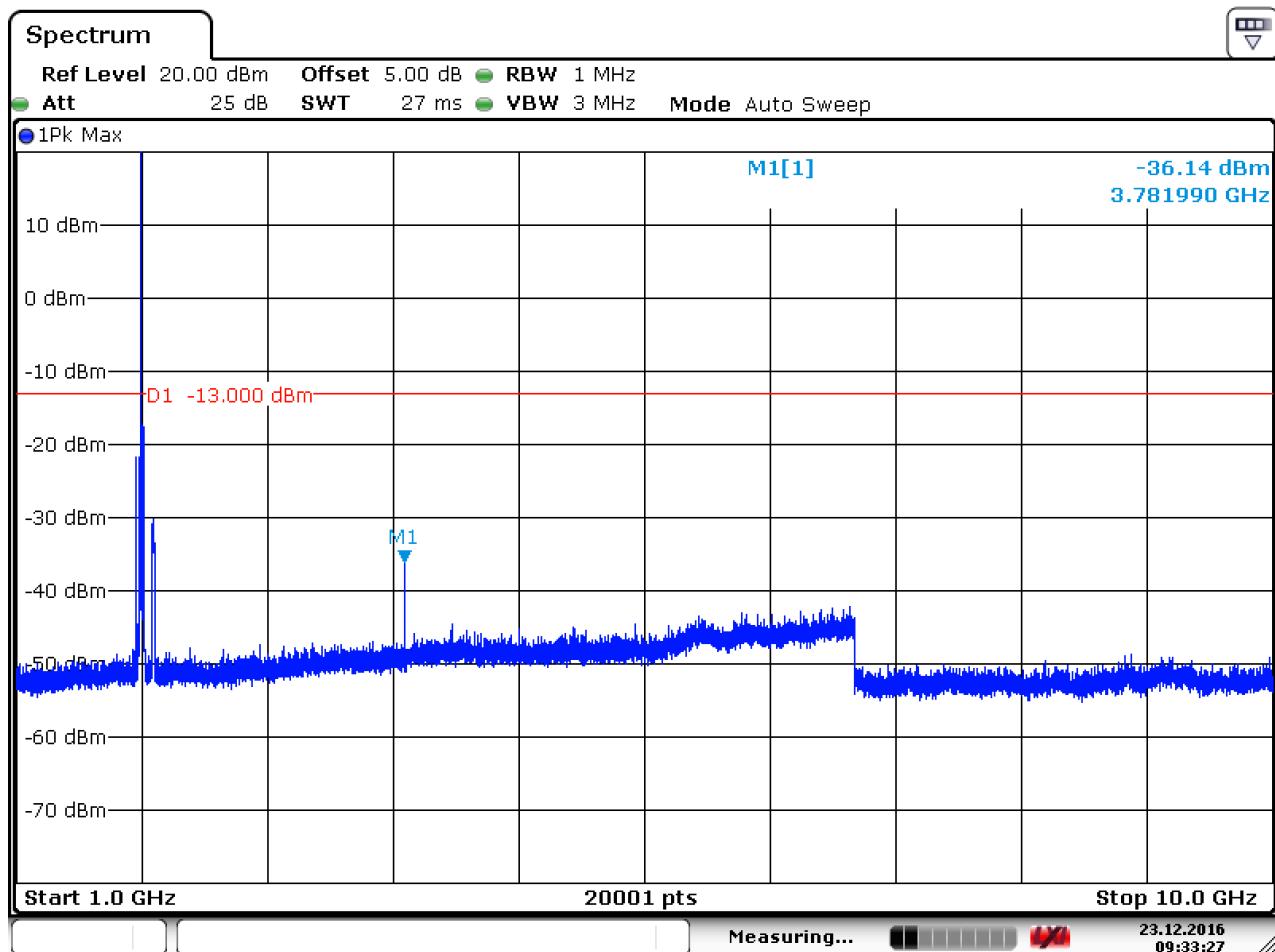
Date: 23.DEC.2016 09:33:01



Date: 23.DEC.2016 09:57:36

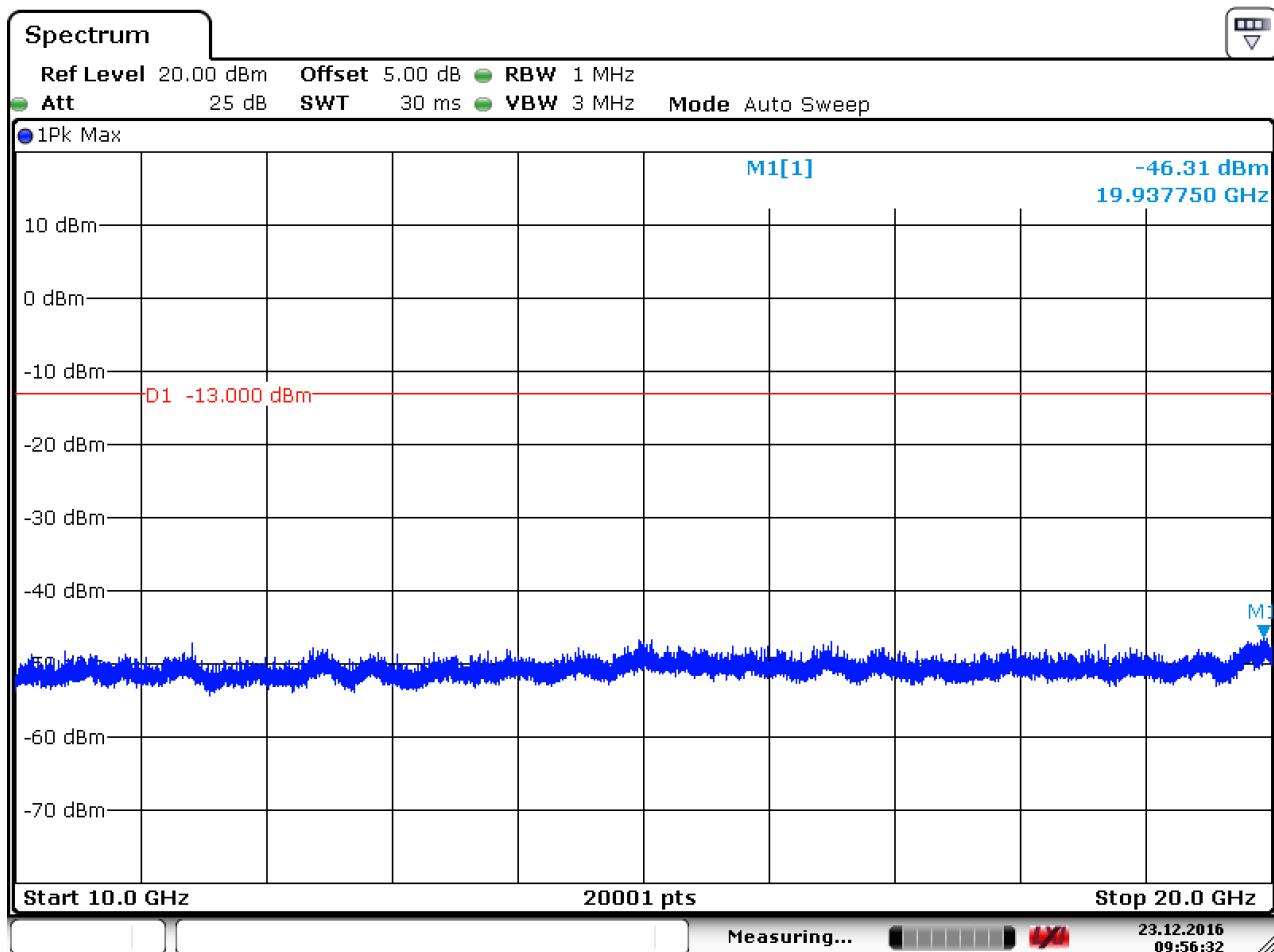
6.1.1.6.3 Test Channel = HCH

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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band2

7.1.1.1 Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 1177.000 | -66.80 | -13.00 | 53.80 | Vertical |
| 2712.000 | -57.36 | -13.00 | 44.36 | Vertical |
| 3975.000 | -67.94 | -13.00 | 54.94 | Vertical |
| 1452.000 | -66.27 | -13.00 | 53.27 | Horizontal |
| 2360.000 | -58.96 | -13.00 | 45.96 | Horizontal |
| 6217.500 | -65.85 | -13.00 | 52.85 | Horizontal |

7.1.1.2 Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 901.000 | -75.75 | -13.00 | 62.75 | Vertical |
| 1419.000 | -67.24 | -13.00 | 54.24 | Vertical |
| 1914.000 | -63.25 | -13.00 | 50.25 | Vertical |
| 2232.000 | -59.28 | -13.00 | 46.28 | Horizontal |
| 3975.000 | -68.29 | -13.00 | 55.29 | Horizontal |
| 4852.500 | -67.07 | -13.00 | 54.07 | Horizontal |

7.1.1.3 Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 1474.000 | -66.43 | -13.00 | 53.43 | Vertical |
| 1738.000 | -63.98 | -13.00 | 50.98 | Vertical |
| 4950.000 | -66.83 | -13.00 | 53.83 | Vertical |
| 1661.000 | -64.89 | -13.00 | 51.89 | Horizontal |
| 2090.000 | -62.75 | -13.00 | 49.75 | Horizontal |
| 4267.500 | -67.43 | -13.00 | 54.43 | 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.

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 2 | LTE/TM1 20MHz | LCH | TN | VL | -3.03 | -0.00163 | PASS |
| | | | | VN | 2.46 | 0.00132 | PASS |
| | | | | VH | -5.73 | -0.00308 | PASS |
| | | MCH | TN | VL | 1.40 | 0.00074 | PASS |
| | | | | VN | -2.64 | -0.00140 | PASS |
| | | | | VH | 2.88 | 0.00153 | PASS |
| | | HCH | TN | VL | -6.26 | -0.00329 | PASS |
| | | | | VN | -4.17 | -0.00219 | PASS |
| | | | | VH | -2.84 | -0.00149 | PASS |
| | LTE/TM2 20MHz | LCH | TN | VL | -4.18 | -0.00225 | PASS |
| | | | | VN | -2.95 | -0.00159 | PASS |
| | | | | VH | -5.16 | -0.00277 | PASS |
| | | MCH | TN | VL | 1.56 | 0.00083 | PASS |
| | | | | VN | -2.90 | -0.00154 | PASS |
| | | | | VH | 2.34 | 0.00124 | PASS |
| | | HCH | TN | VL | -4.08 | -0.00215 | PASS |
| | | | | VN | -7.20 | -0.00379 | PASS |
| | | | | VH | -4.40 | -0.00232 | 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 |
|-----------|---------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTEband2 | LTE/TM1 20MHz | LCH | VN | -30 | -4.40 | -0.00237 | PASS |
| | | | | -20 | -1.44 | -0.00077 | PASS |
| | | | | -10 | 3.38 | 0.00182 | PASS |
| | | | | 0 | 1.88 | 0.00101 | PASS |
| | | | | 10 | 1.65 | 0.00089 | PASS |
| | | | | 20 | 2.96 | 0.00159 | PASS |
| | | | | 30 | -0.31 | -0.00017 | PASS |
| | | | | 40 | -2.14 | -0.00115 | PASS |
| | | | | 50 | 3.50 | 0.00188 | PASS |
| | | MCH | VN | -30 | -7.80 | -0.00415 | PASS |
| | | | | -20 | -5.95 | -0.00316 | PASS |
| | | | | -10 | -3.07 | -0.00163 | PASS |
| | | | | 0 | -5.62 | -0.00299 | PASS |
| | | | | 10 | -2.04 | -0.00109 | PASS |
| | | | | 20 | -7.37 | -0.00392 | PASS |
| | | | | 30 | -5.26 | -0.00280 | PASS |
| | | | | 40 | -4.55 | -0.00242 | PASS |
| | | | | 50 | -6.22 | -0.00331 | PASS |
| | | HCH | VN | -30 | 0.54 | 0.00028 | PASS |
| | | | | -20 | -4.49 | -0.00236 | PASS |
| | | | | -10 | 1.53 | 0.00081 | PASS |
| | | | | 0 | -3.83 | -0.00202 | PASS |
| | | | | 10 | 2.60 | 0.00137 | PASS |
| | | | | 20 | -0.77 | -0.00041 | PASS |
| | | | | 30 | -2.62 | -0.00138 | PASS |
| | | | | 40 | -3.43 | -0.00181 | PASS |
| | | | | 50 | -5.67 | -0.00298 | PASS |



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| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|---------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTEband2 | LTE/TM2 20MHz | LCH | VN | -30 | -2.53 | -0.00136 | PASS |
| | | | | -20 | -4.45 | -0.00239 | PASS |
| | | | | -10 | 3.18 | 0.00171 | PASS |
| | | | | 0 | 2.67 | 0.00144 | PASS |
| | | | | 10 | 1.60 | 0.00086 | PASS |
| | | | | 20 | -3.29 | -0.00177 | PASS |
| | | | | 30 | -0.34 | -0.00018 | PASS |
| | | | | 40 | -5.34 | -0.00287 | PASS |
| | | | | 50 | 3.79 | 0.00204 | PASS |
| | | MCH | VN | -30 | -3.50 | -0.00186 | PASS |
| | | | | -20 | -1.28 | -0.00068 | PASS |
| | | | | -10 | -6.29 | -0.00335 | PASS |
| | | | | 0 | -4.32 | -0.00230 | PASS |
| | | | | 10 | -2.30 | -0.00122 | PASS |
| | | | | 20 | 1.74 | 0.00093 | PASS |
| | | | | 30 | -3.24 | -0.00172 | PASS |
| | | | | 40 | -2.68 | -0.00143 | PASS |
| | | | | 50 | -3.87 | -0.00206 | PASS |
| | | HCH | VN | -30 | 1.54 | 0.00081 | PASS |
| | | | | -20 | -2.25 | -0.00118 | PASS |
| | | | | -10 | 4.57 | 0.00241 | PASS |
| | | | | 0 | -3.23 | -0.00170 | PASS |
| | | | | 10 | 2.58 | 0.00136 | PASS |
| | | | | 20 | -4.43 | -0.00233 | PASS |
| | | | | 30 | -2.39 | -0.00126 | PASS |
| | | | | 40 | -4.93 | -0.00259 | PASS |
| | | | | 50 | -5.40 | -0.00284 | PASS |



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| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|---------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTEband2 | LTE/TM3 20MHz | LCH | VN | -30 | 1.50 | 0.00081 | PASS |
| | | | | -20 | -1.60 | -0.00086 | PASS |
| | | | | -10 | 4.38 | 0.00235 | PASS |
| | | | | 0 | 1.69 | 0.00091 | PASS |
| | | | | 10 | 1.43 | 0.00077 | PASS |
| | | | | 20 | 0.54 | 0.00029 | PASS |
| | | | | 30 | -2.61 | -0.00140 | PASS |
| | | | | 40 | -0.69 | -0.00037 | PASS |
| | | | | 50 | 3.52 | 0.00189 | PASS |
| | | MCH | VN | -30 | -7.34 | -0.00390 | PASS |
| | | | | -20 | -5.33 | -0.00284 | PASS |
| | | | | -10 | -7.23 | -0.00385 | PASS |
| | | | | 0 | -5.34 | -0.00284 | PASS |
| | | | | 10 | -4.04 | -0.00215 | PASS |
| | | | | 20 | -6.34 | -0.00337 | PASS |
| | | | | 30 | -5.26 | -0.00280 | PASS |
| | | | | 40 | -4.13 | -0.00220 | PASS |
| | | | | 50 | -6.47 | -0.00344 | PASS |
| | | HCH | VN | -30 | 2.34 | 0.00123 | PASS |
| | | | | -20 | -1.83 | -0.00096 | PASS |
| | | | | -10 | 1.57 | 0.00083 | PASS |
| | | | | 0 | -2.43 | -0.00128 | PASS |
| | | | | 10 | 1.60 | 0.00084 | PASS |
| | | | | 20 | -0.57 | -0.00030 | PASS |
| | | | | 30 | 0.66 | 0.00035 | PASS |
| | | | | 40 | -5.43 | -0.00286 | PASS |
| | | | | 50 | -5.90 | -0.00311 | PASS |

The End