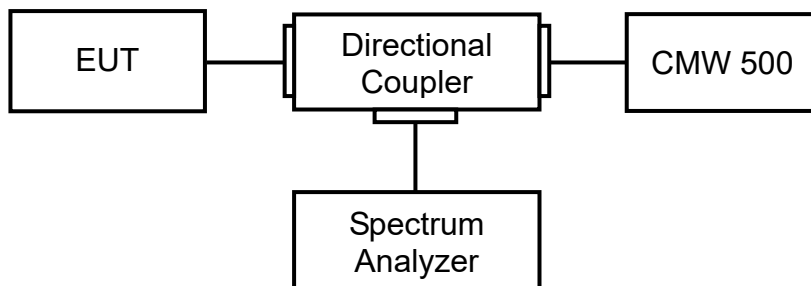


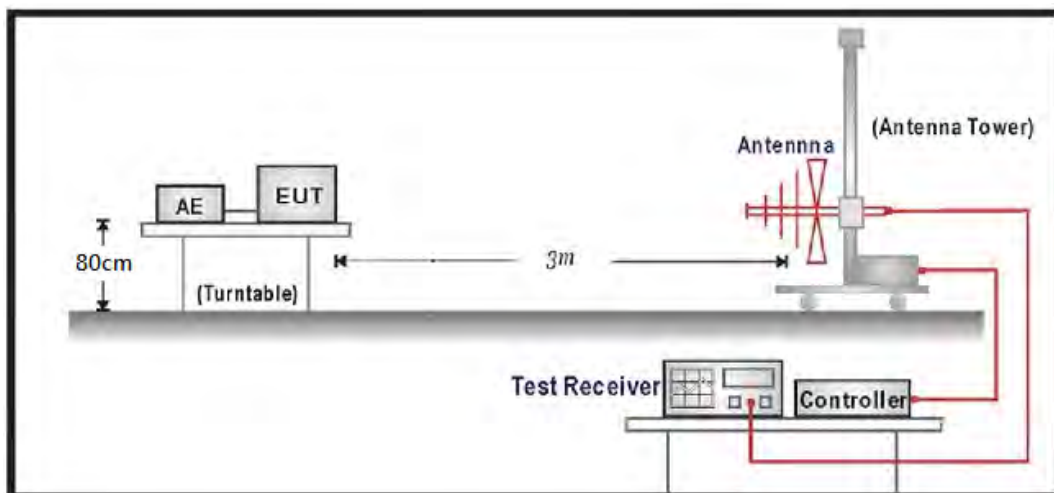
6. Spurious Emissions

6.1. Test Setup

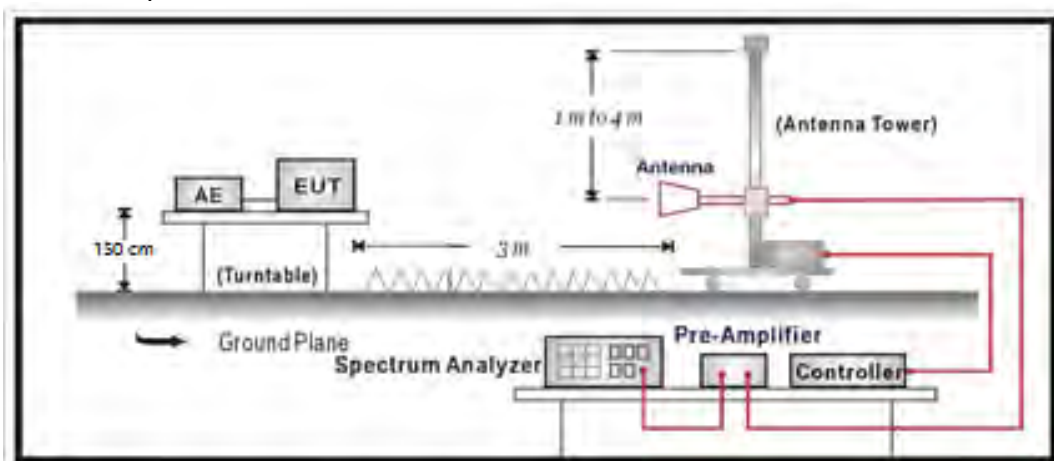
Conducted Spurious Measurement:



Radiated Spurious Measurement: below 1GHz



Radiated Spurious Measurement: above 1GHz



6.2. Test Procedure

Conducted Spurious Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- c) EUT Communicate with CMW500, then select a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.
- e) The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

Radiated Spurious Measurement:

- a) The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
- b) The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- c) The table was rotated 360 degrees to determine the position of the highest spurious emission.
- d) The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- e) Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 1MHz, Sweep 500ms, Taking the record of maximum spurious emission.
- f) A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- g) Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- h) Taking the record of output power at antenna port
- i) Repeat step 7 to step 8 for another polarization.
- j) $EIRP = SG - \text{Cable loss} + \text{Antenna Gain}$

6.3. Test Method

Conducted Spurious Measurement:

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 6.1
ANSI C63.26: 2015 Sub-clause 5.7

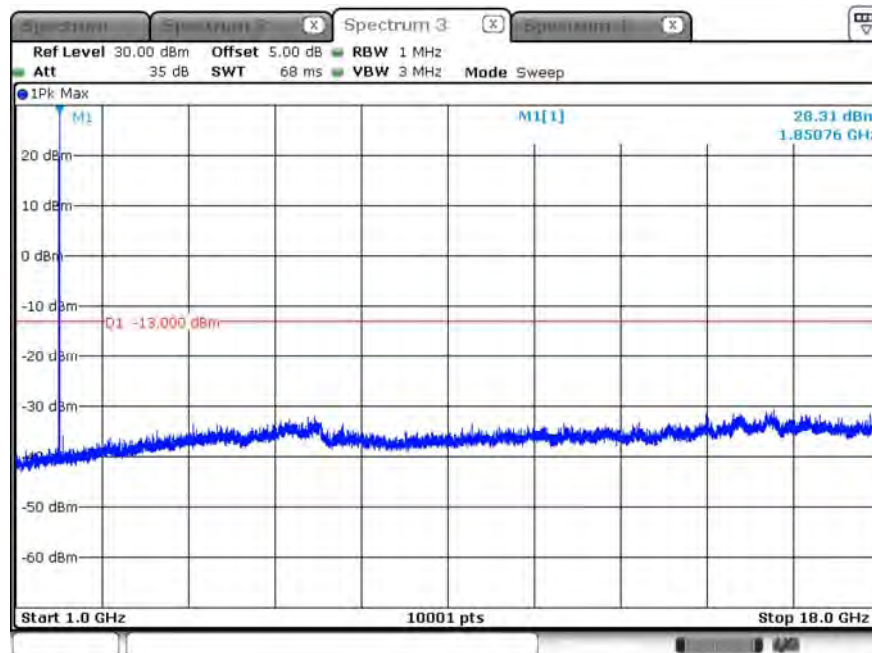
Radiated Spurious Measurement:

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.8
ANSI C63.26: 2015 Sub-clause 5.5.3.2

6.4. Test Result

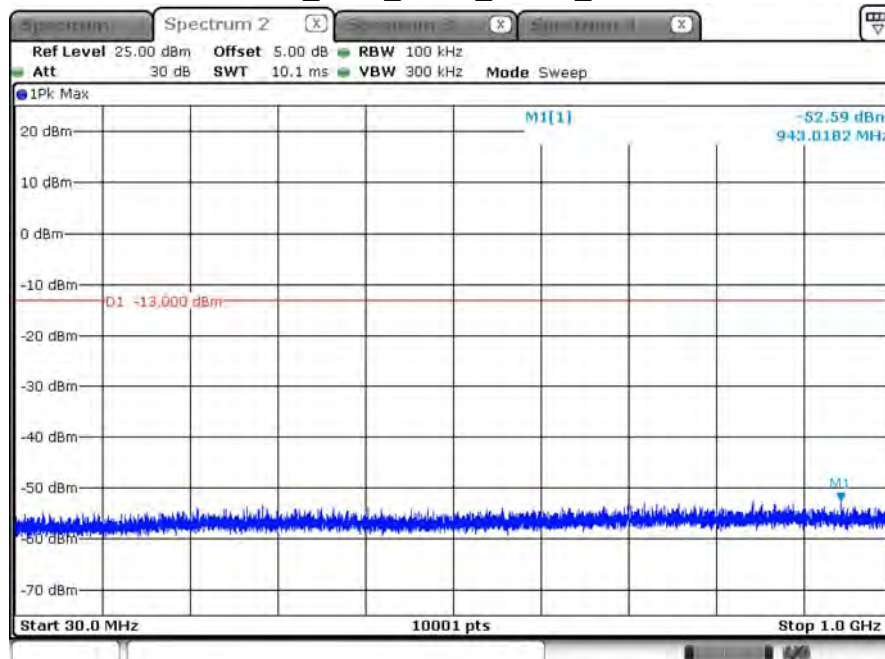
Product	LE910C4-NF		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2018/08/08	Test Site	SR10-H

CH18607_1.4M_1RB2_QPSK_Above 1G



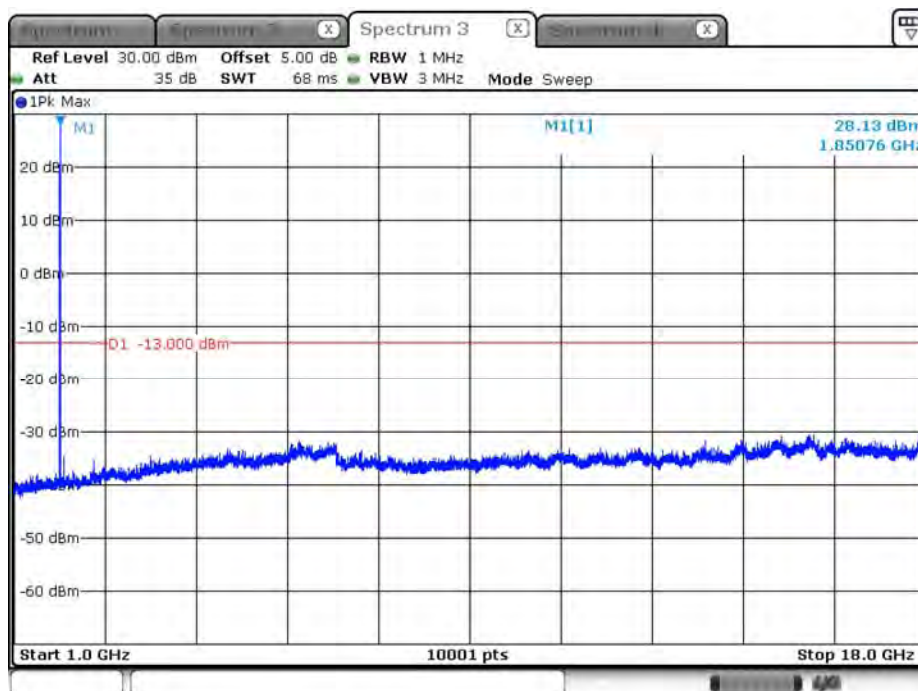
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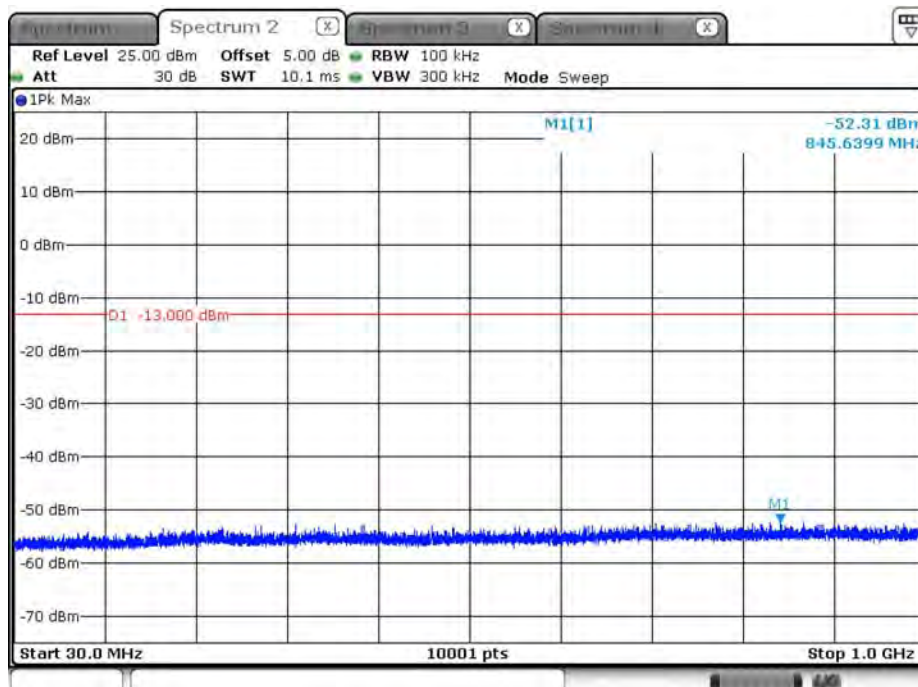
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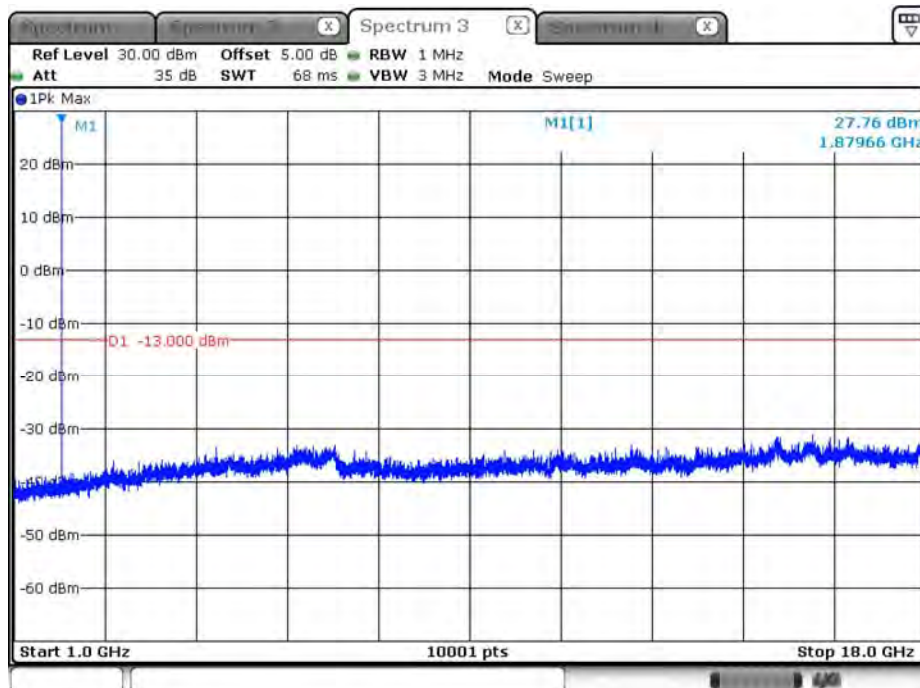
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CH18607_1.4M_3RB1_16-QAM_Below 1G



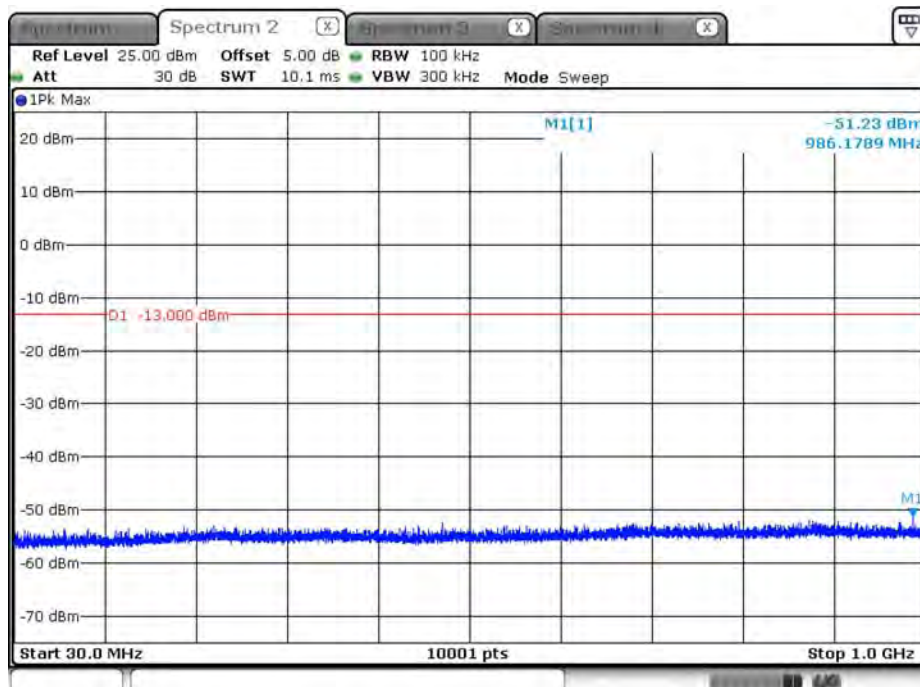
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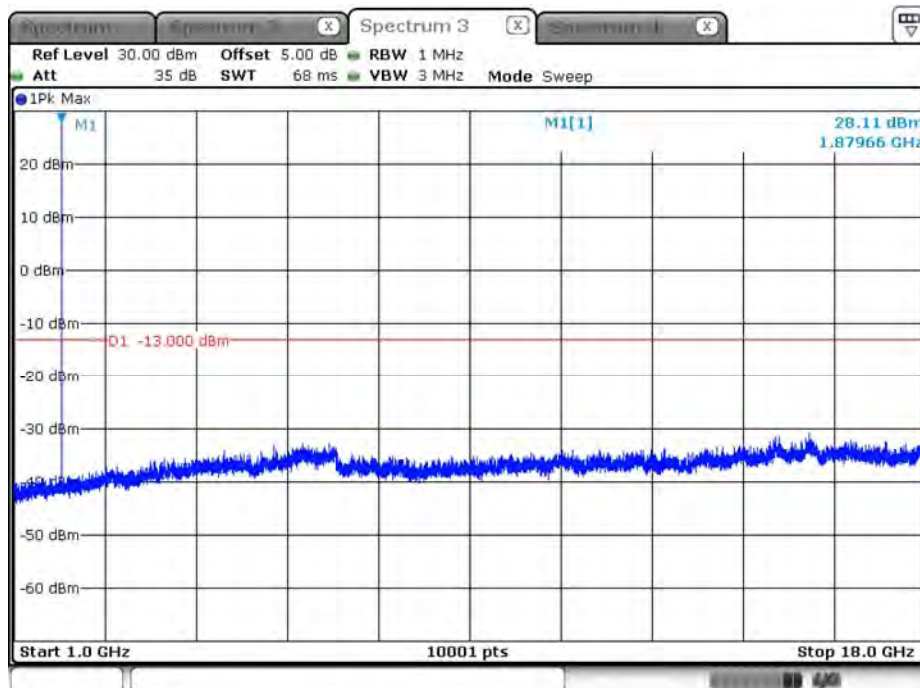
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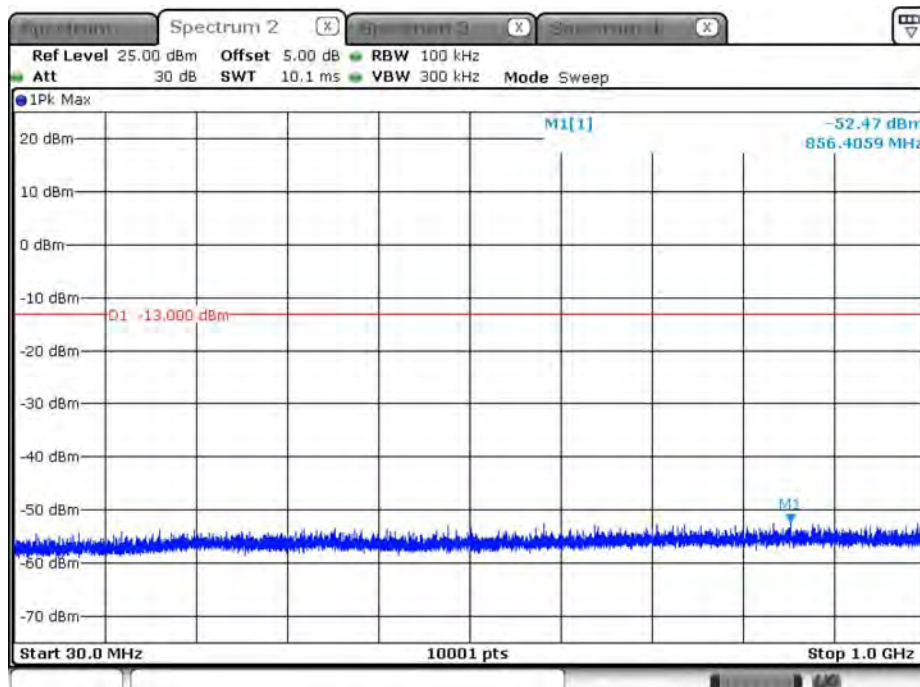
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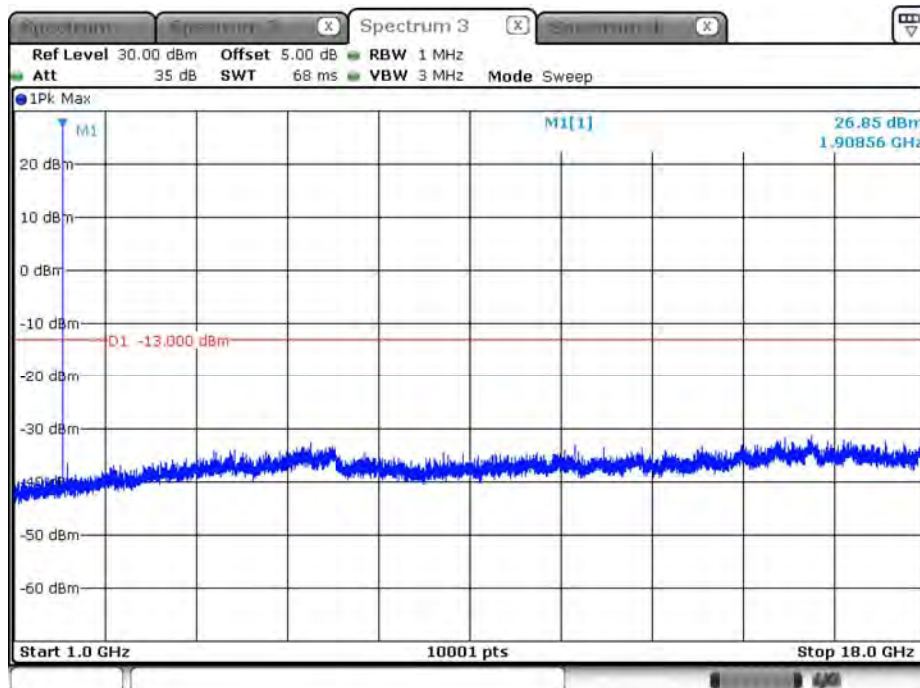
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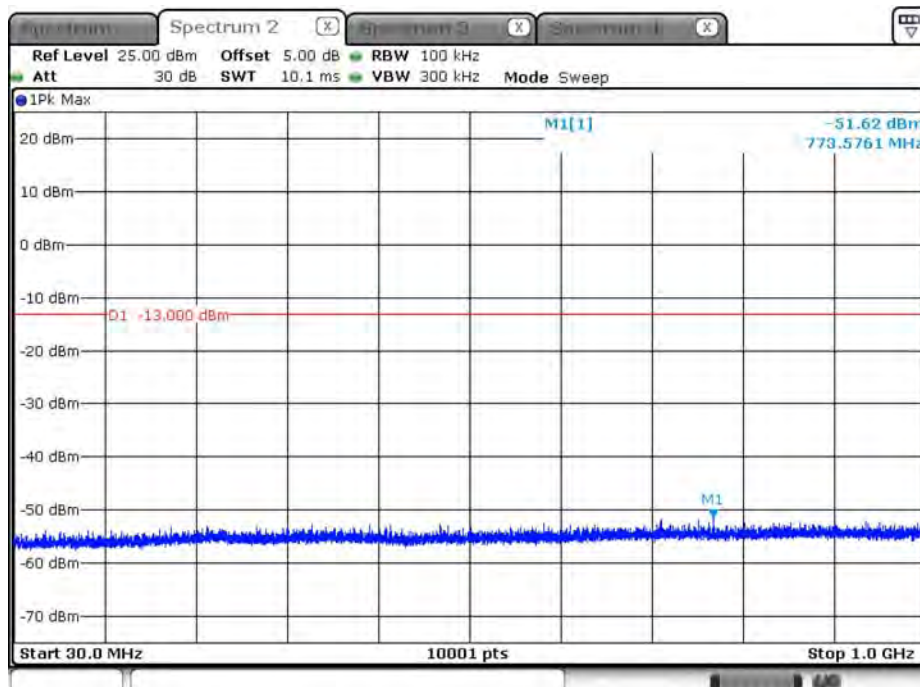
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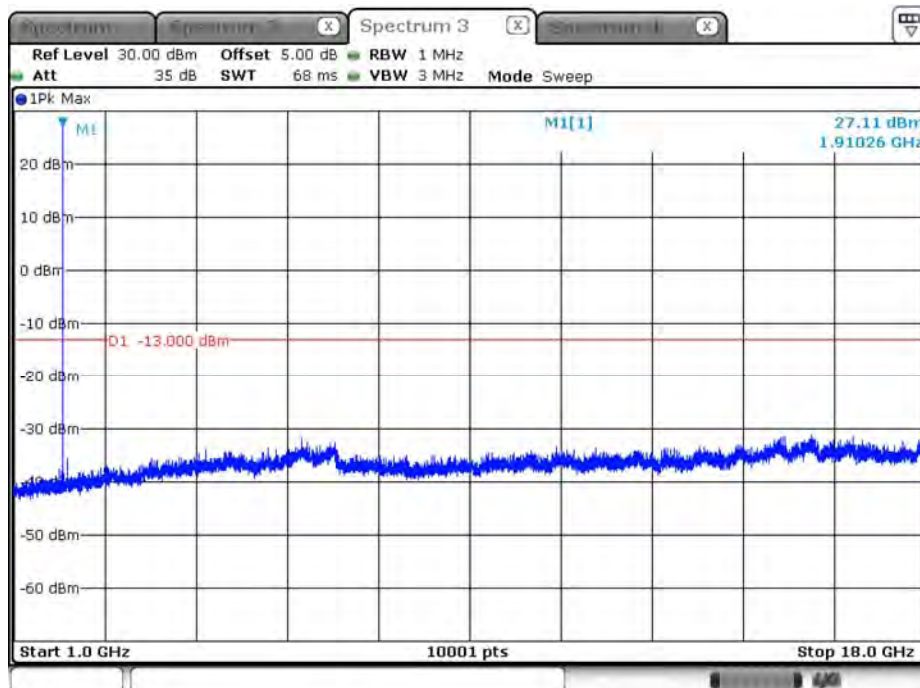
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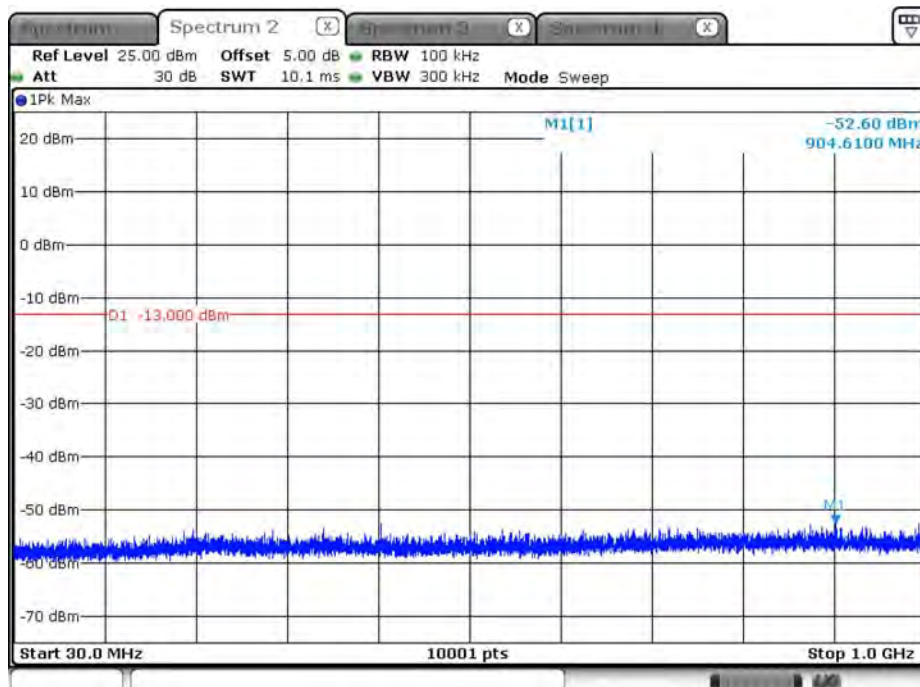
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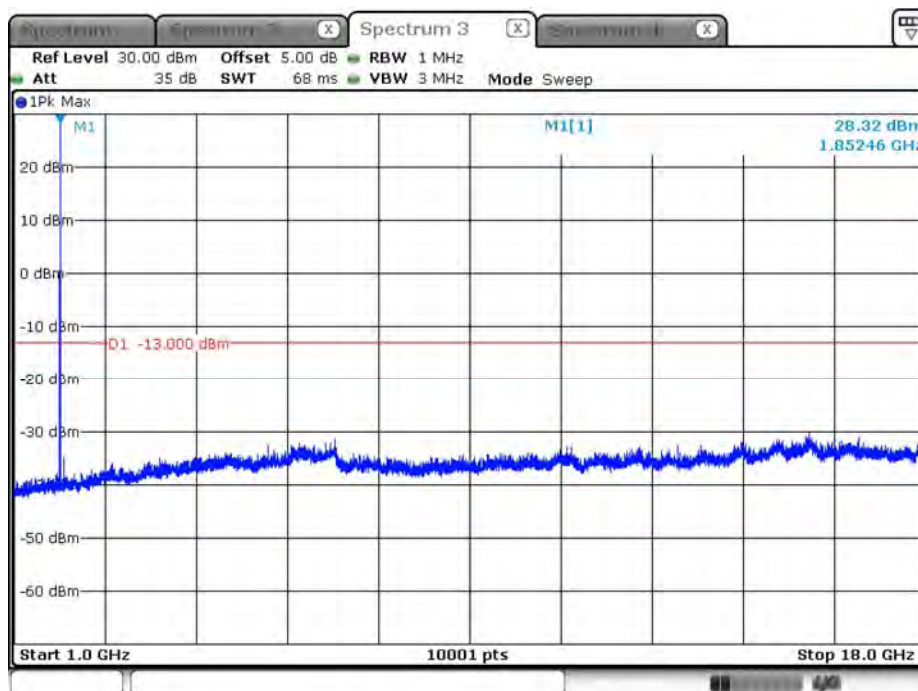
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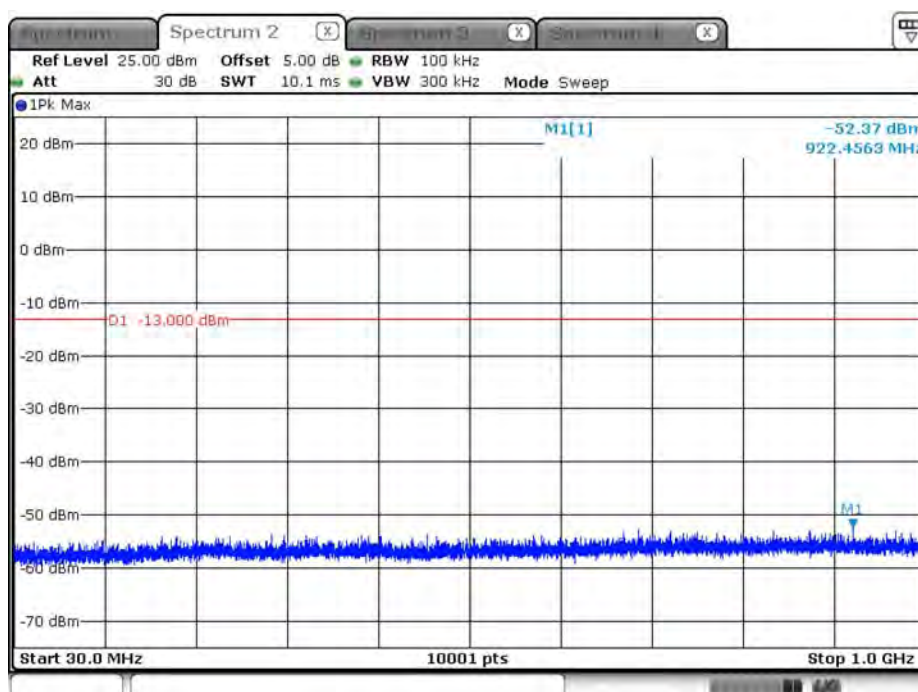
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CH18615_3M_1RB7_QPSK_Above 1G



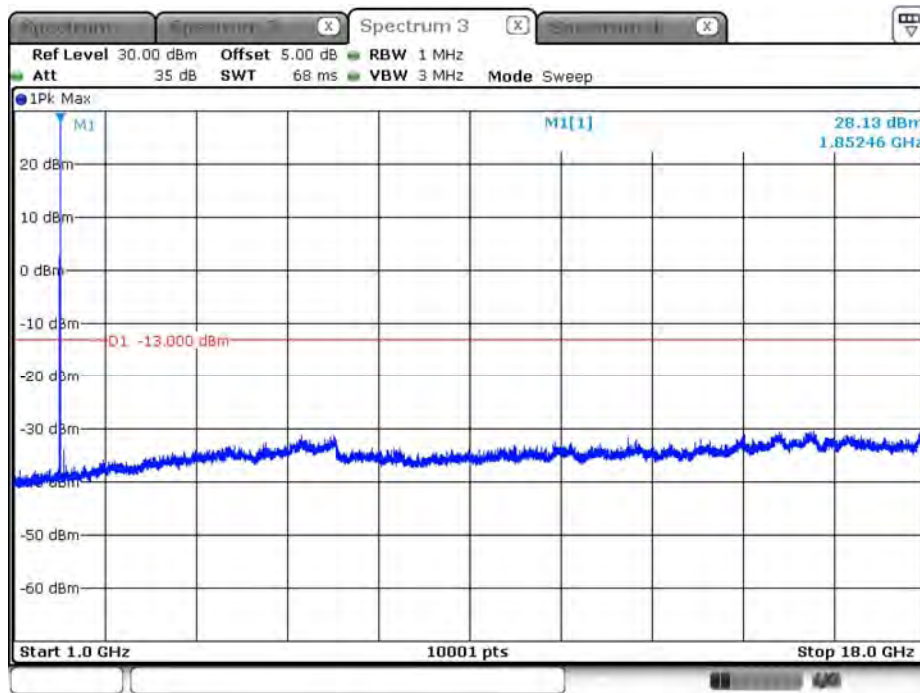
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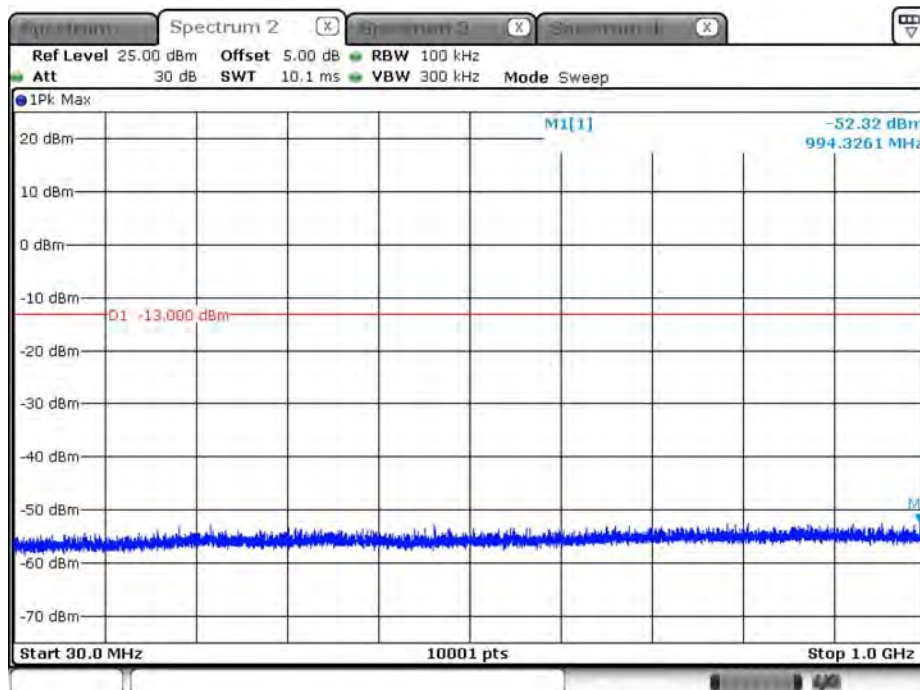
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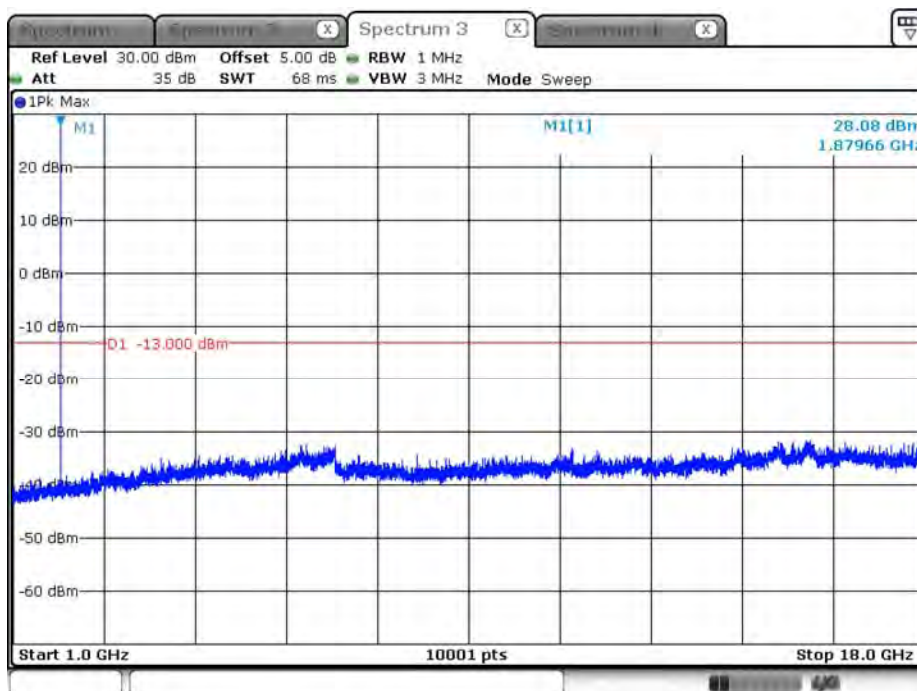
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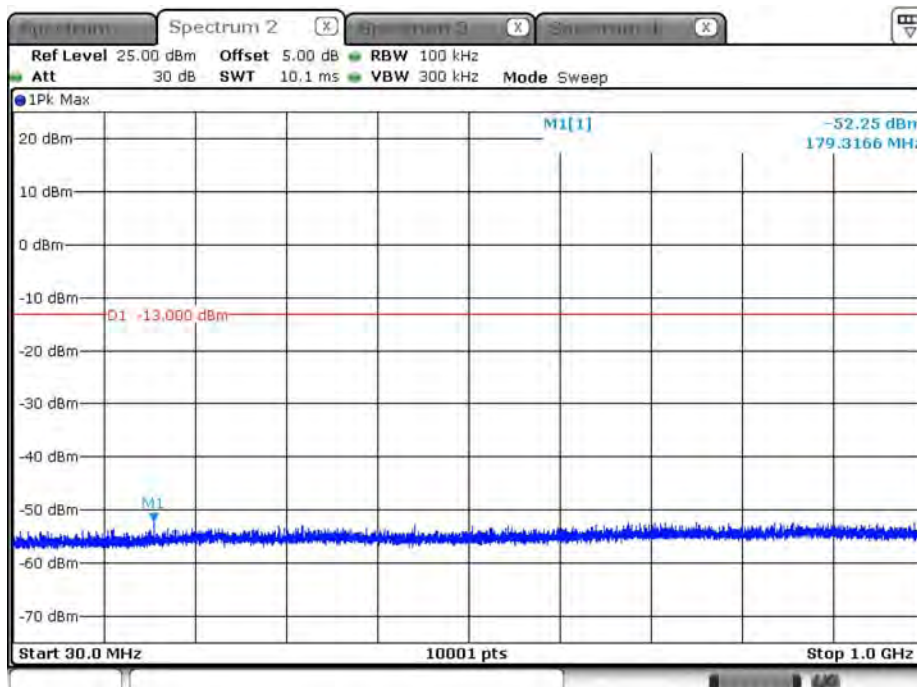
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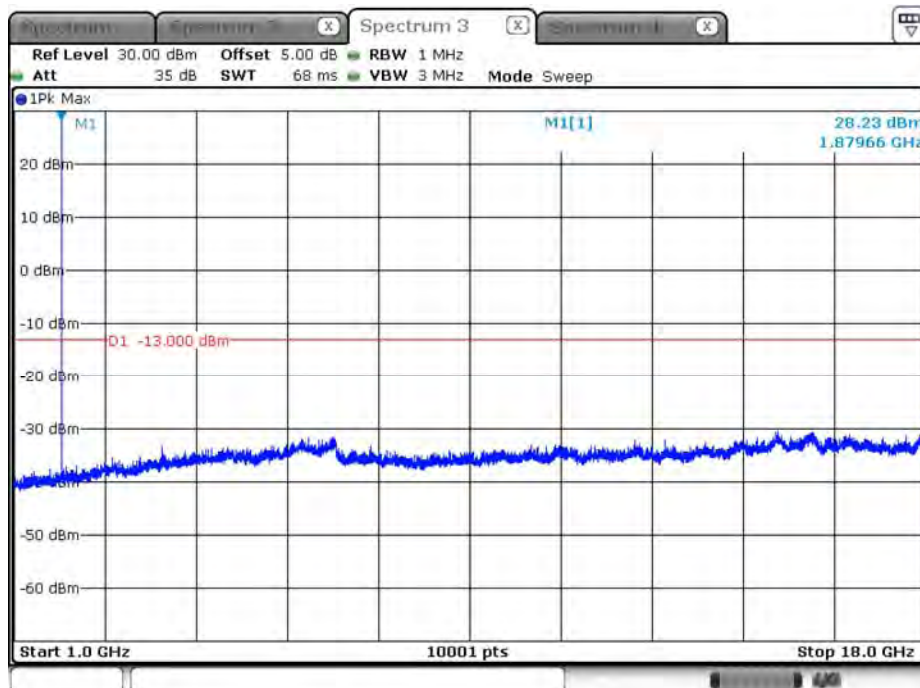
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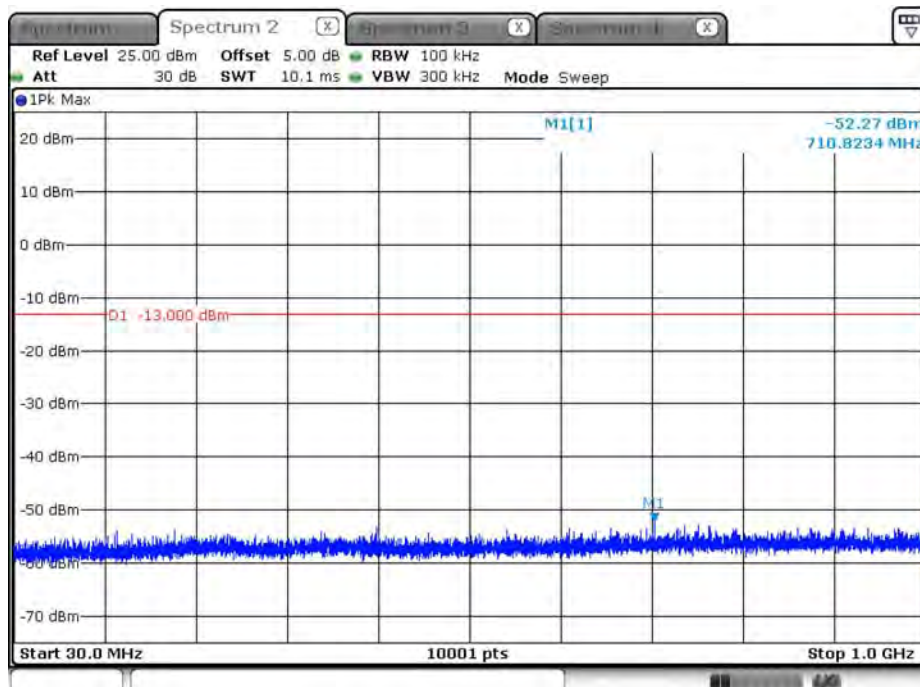
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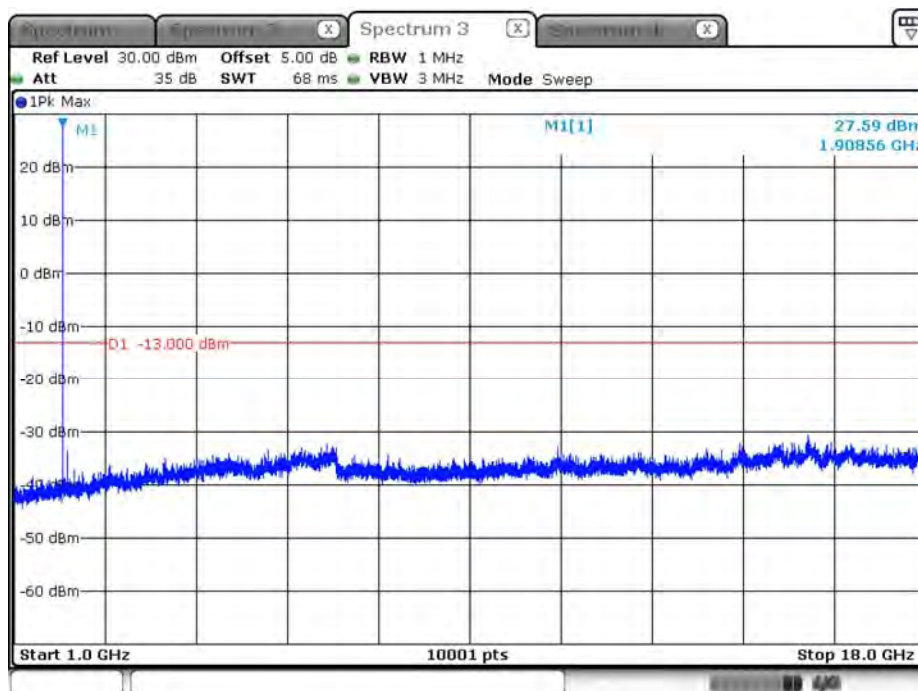
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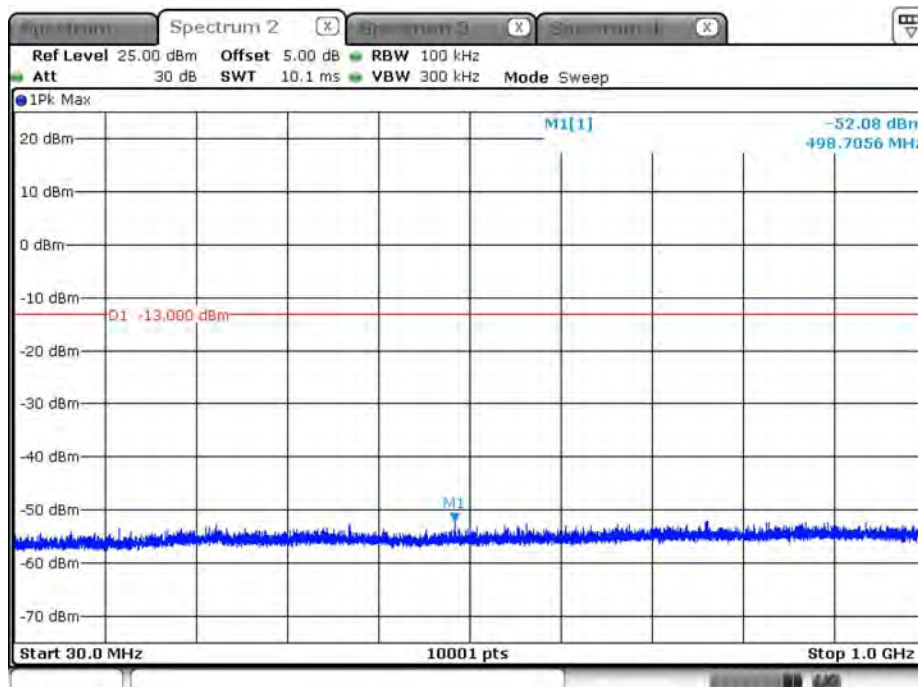
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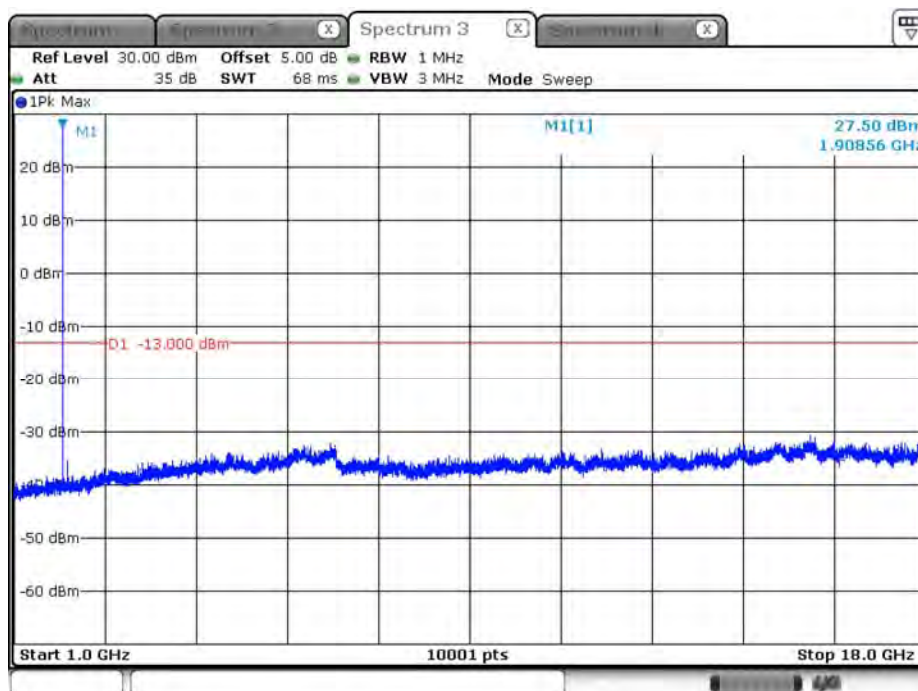
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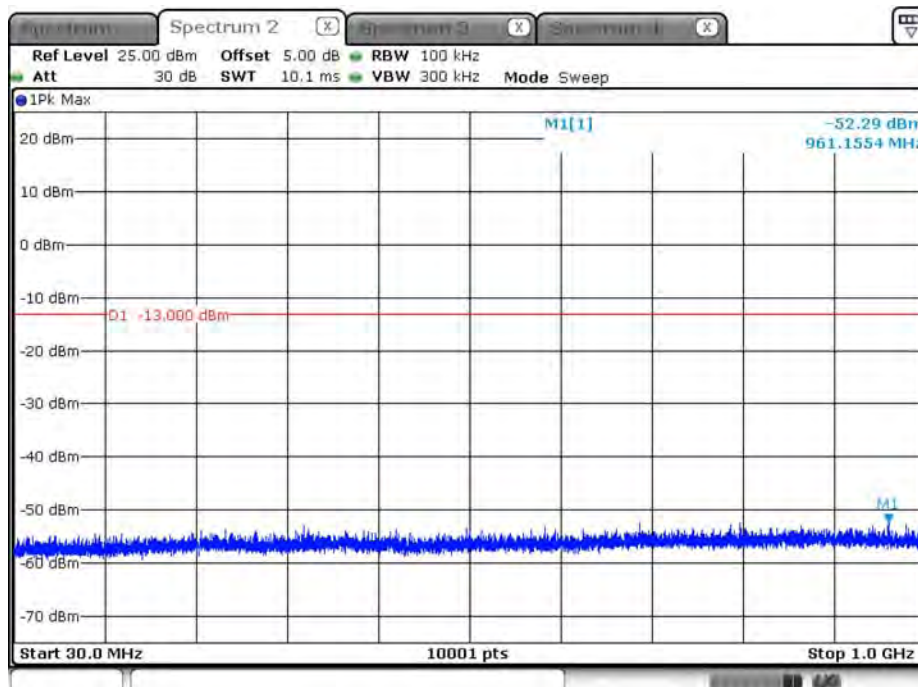
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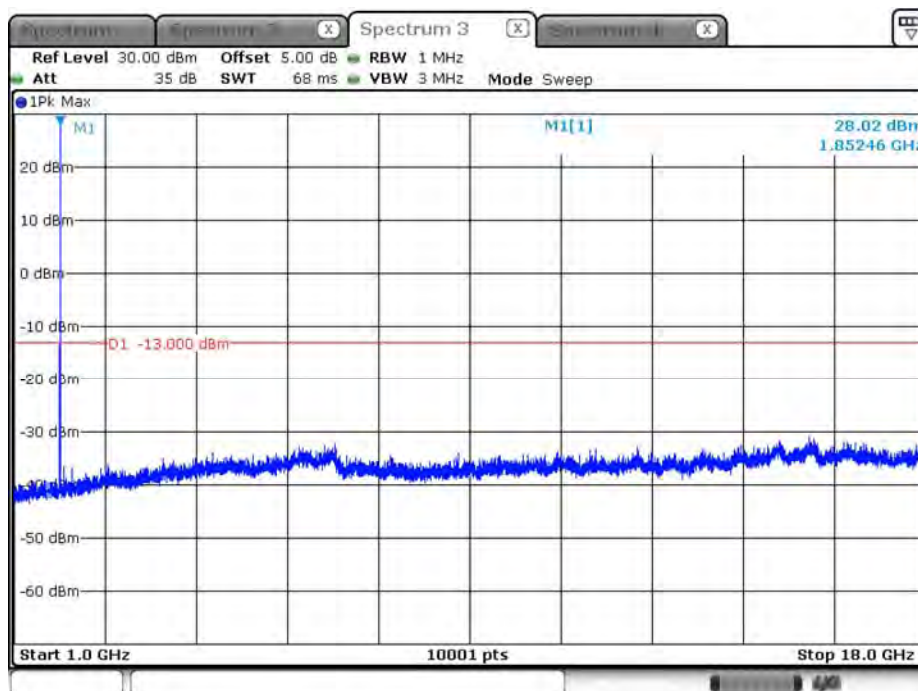
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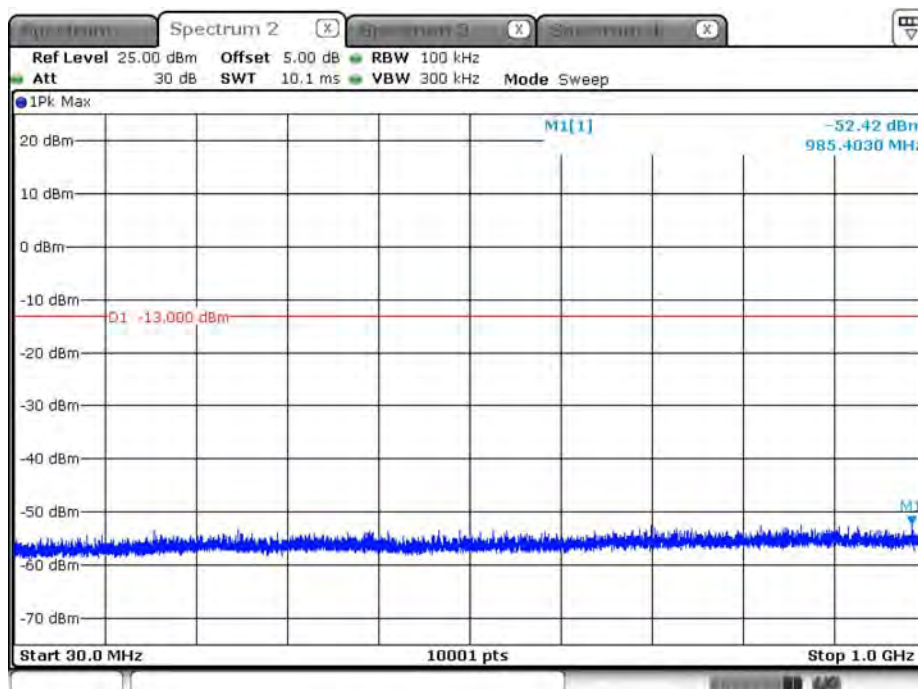
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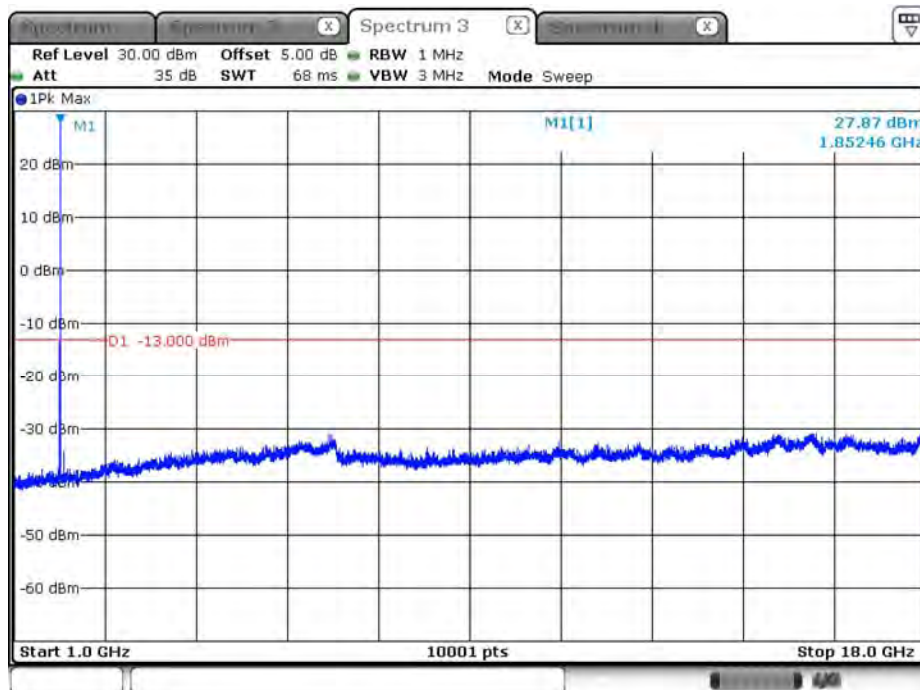
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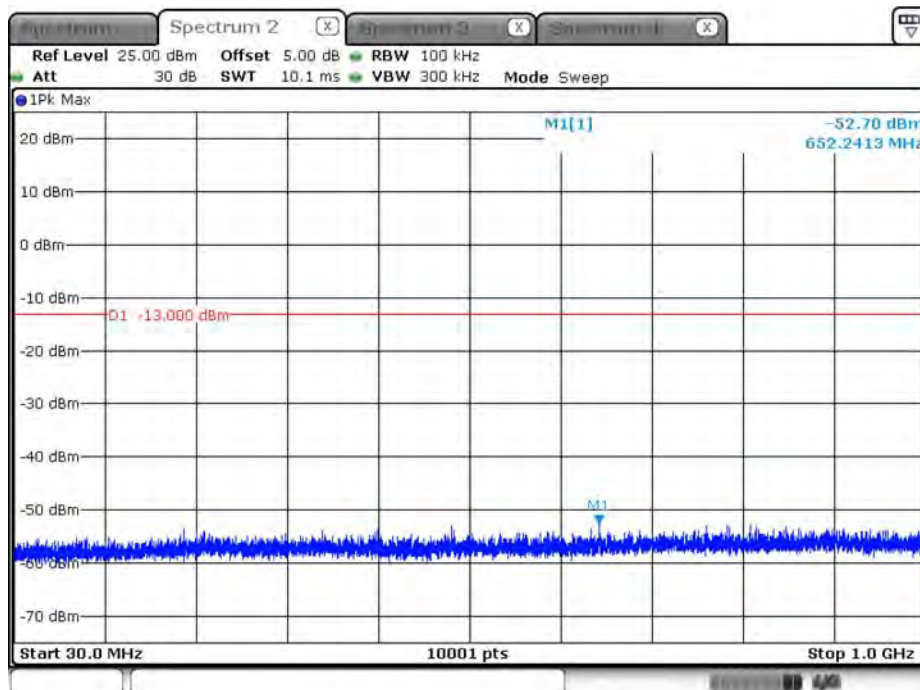
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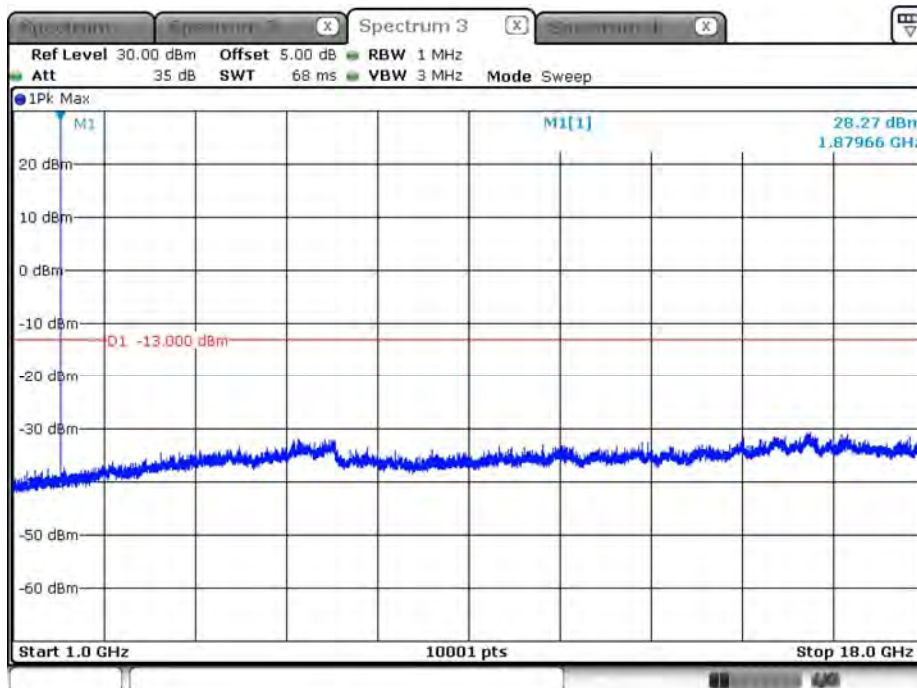
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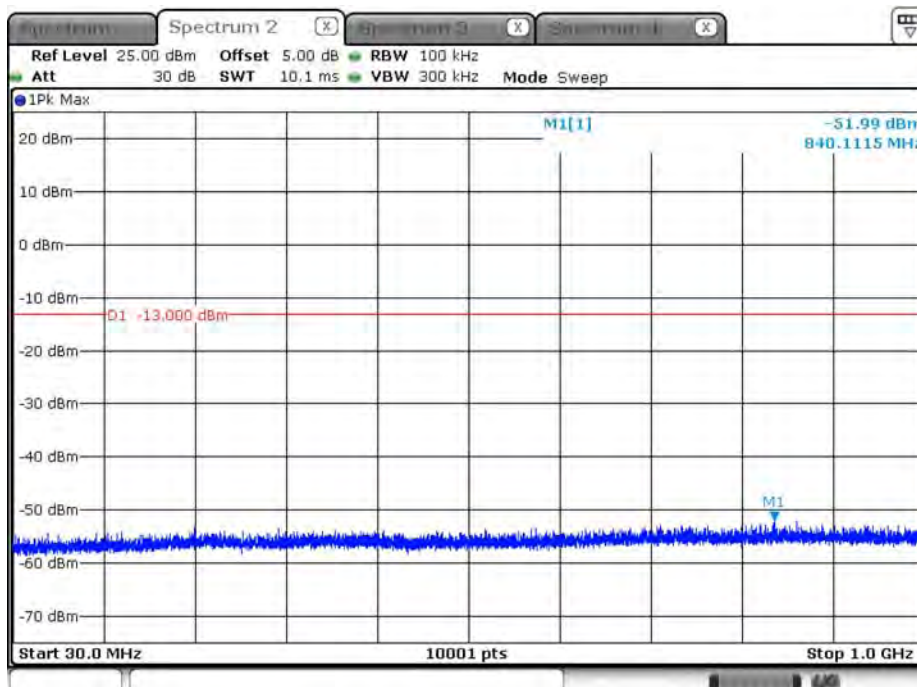
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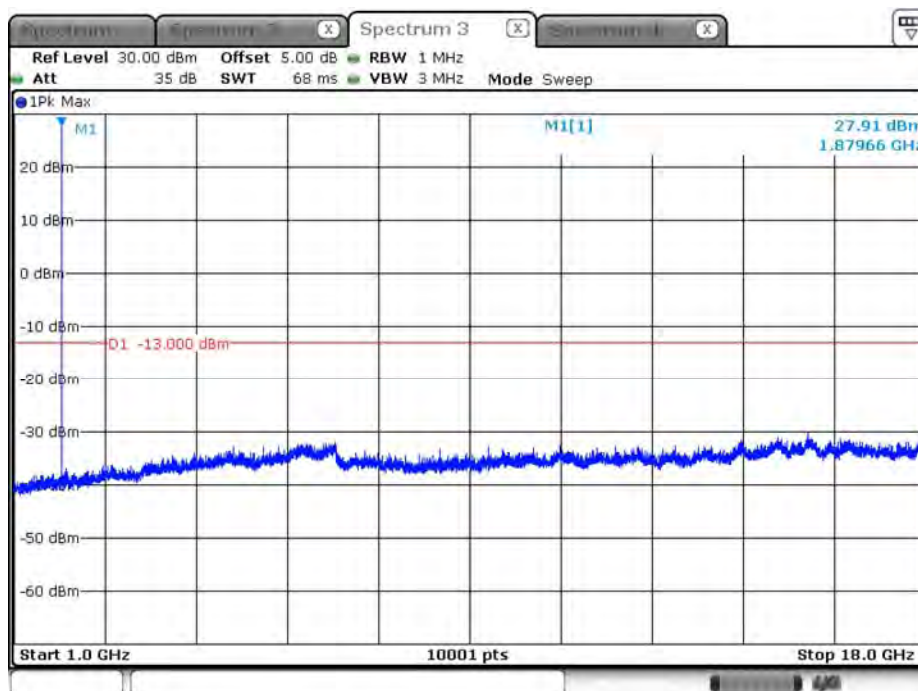
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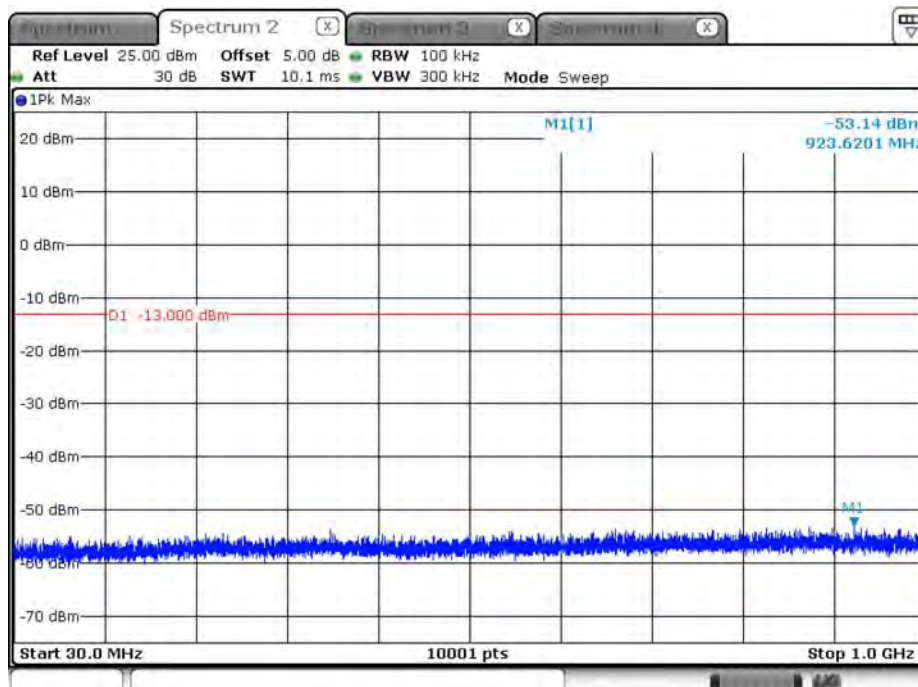
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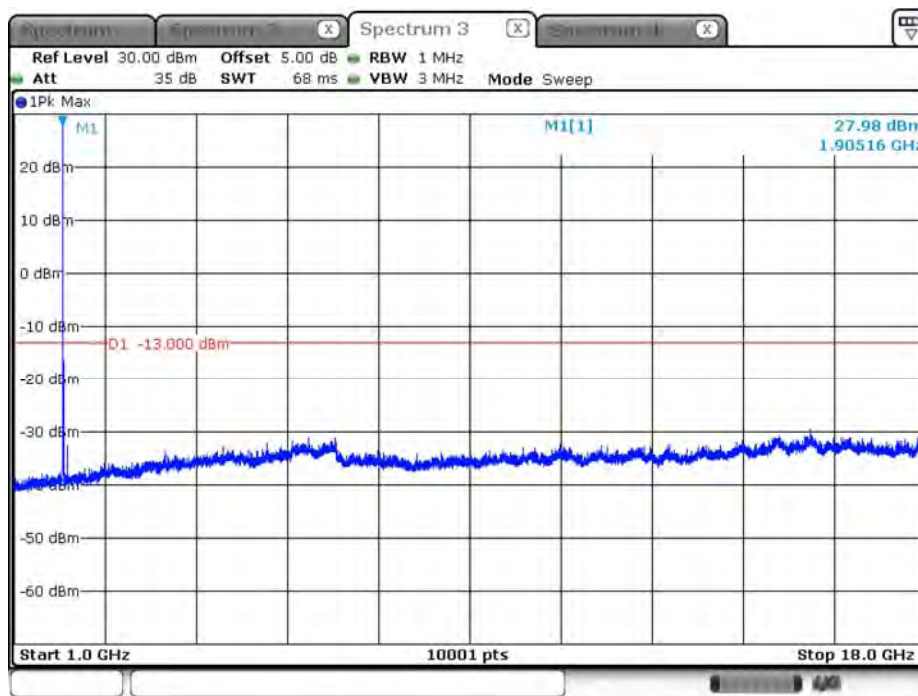
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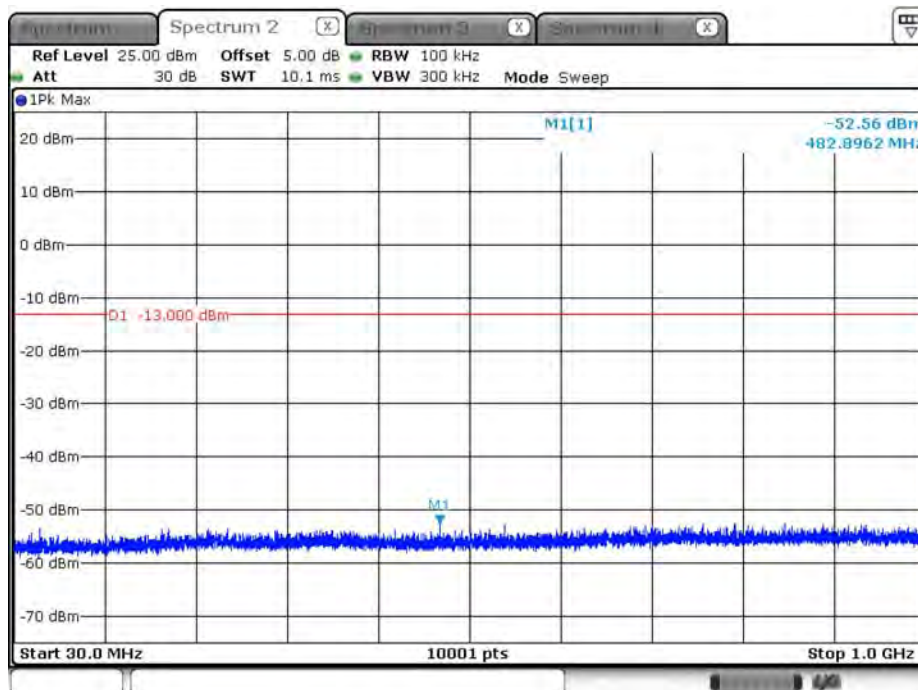
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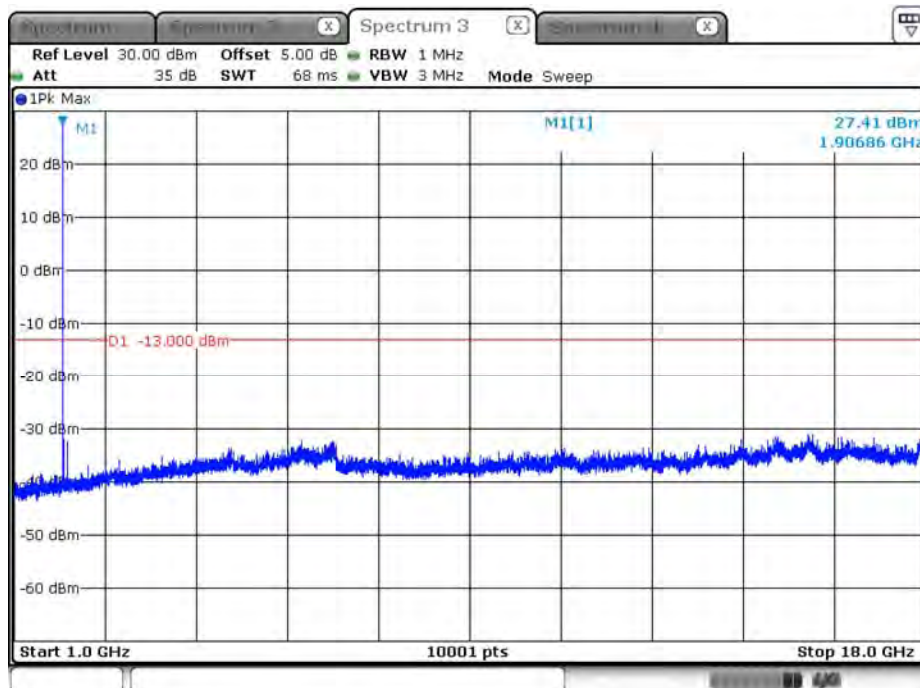
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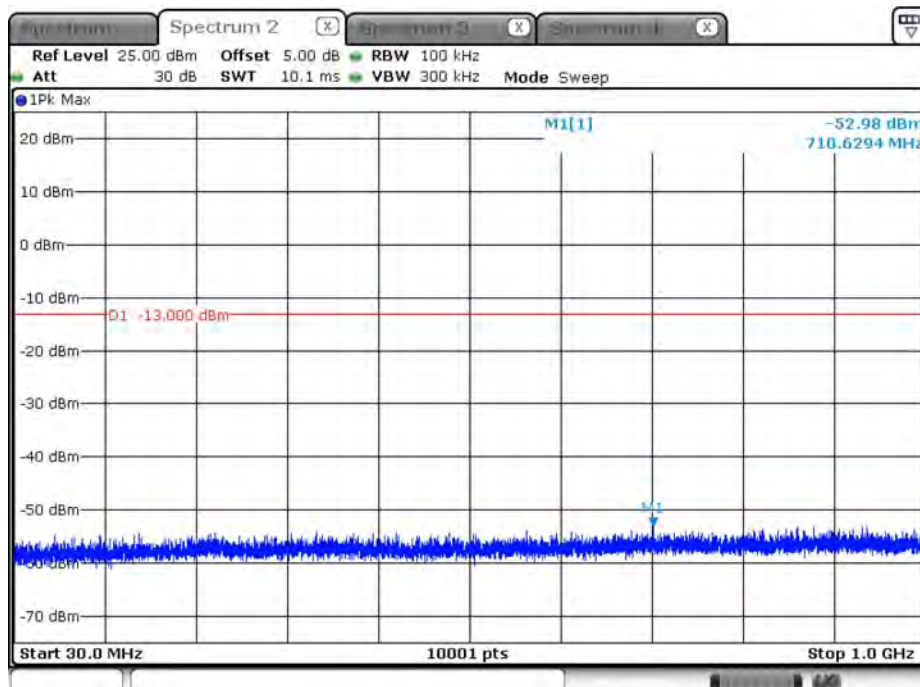
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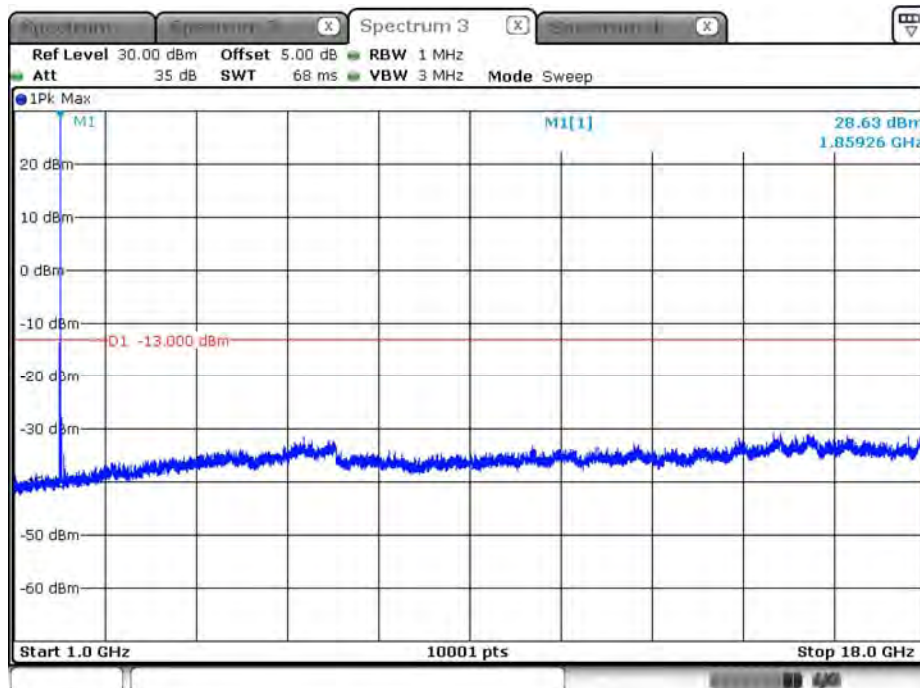
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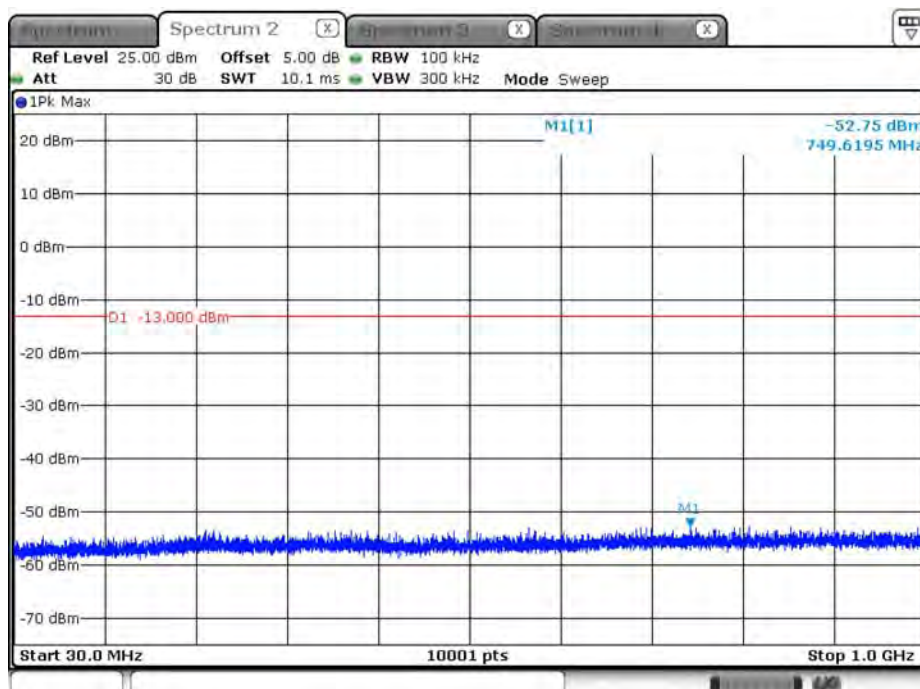
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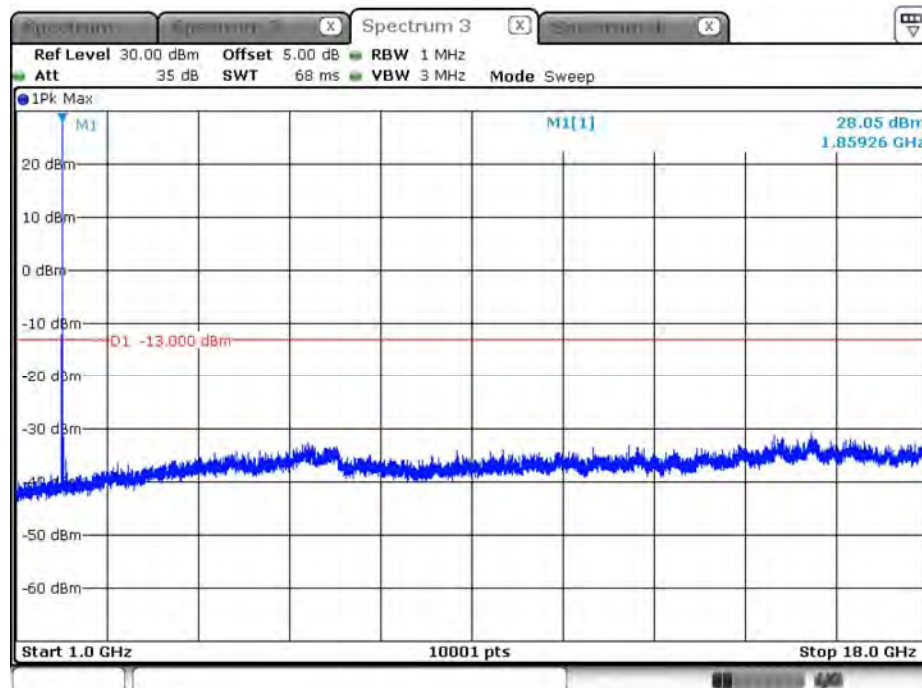
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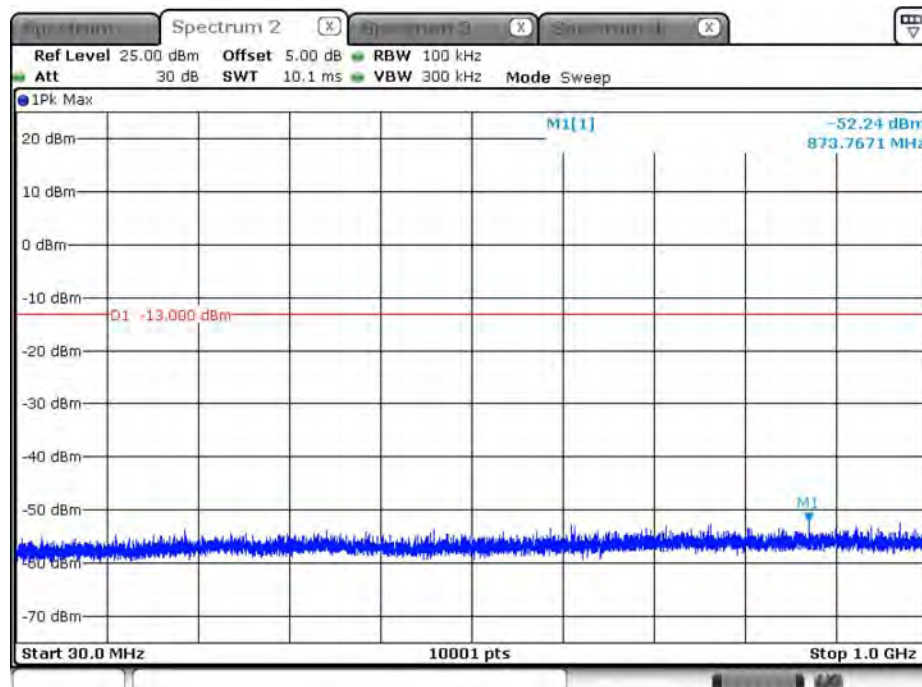
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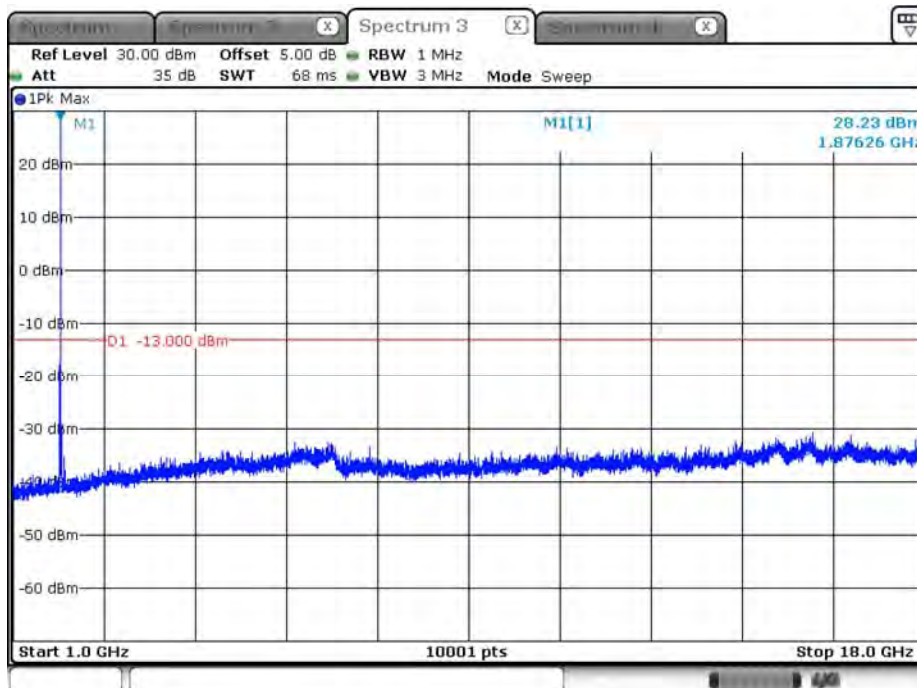
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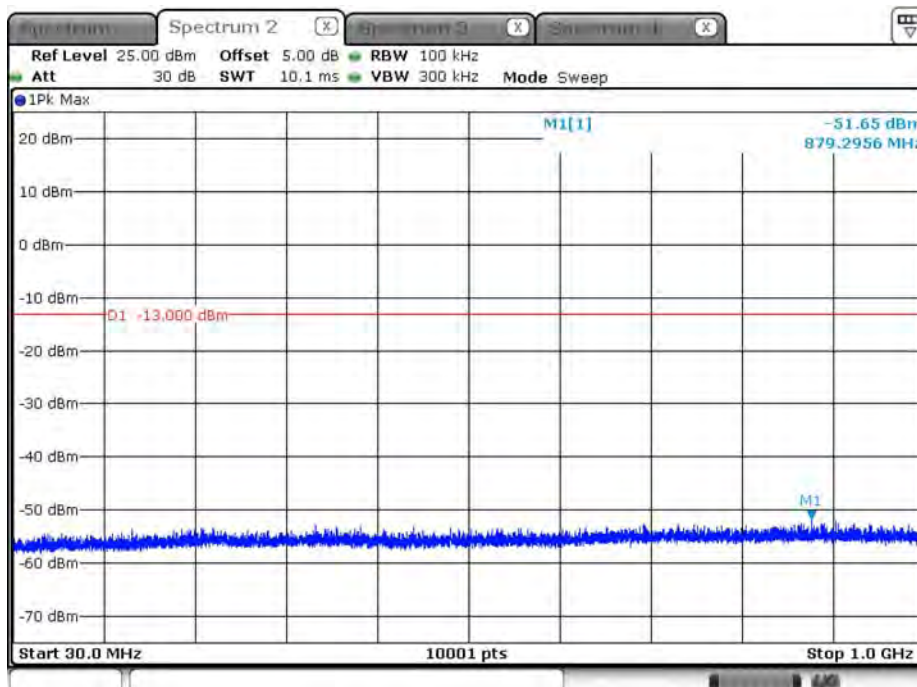
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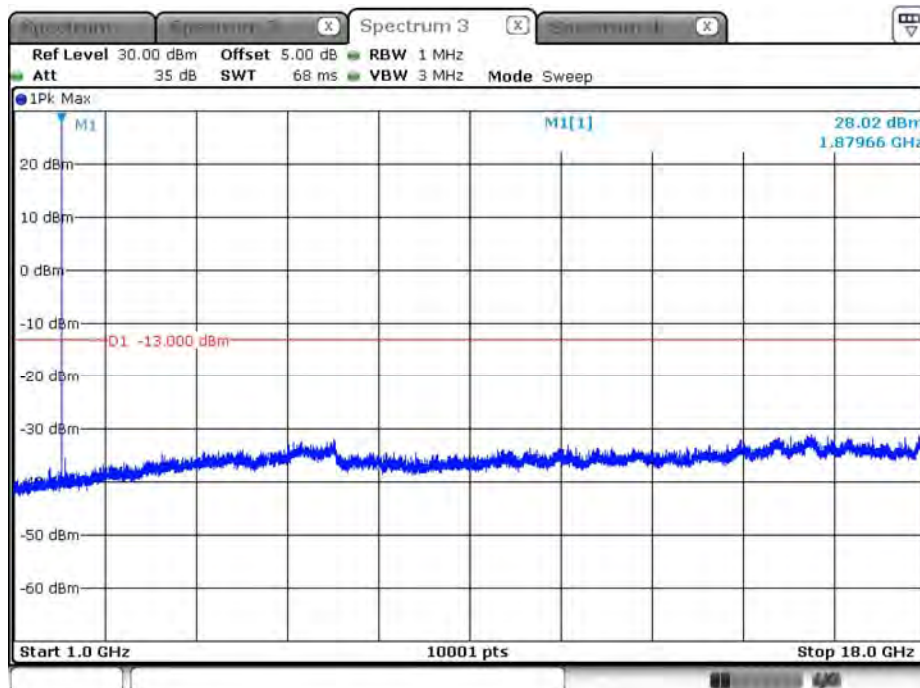
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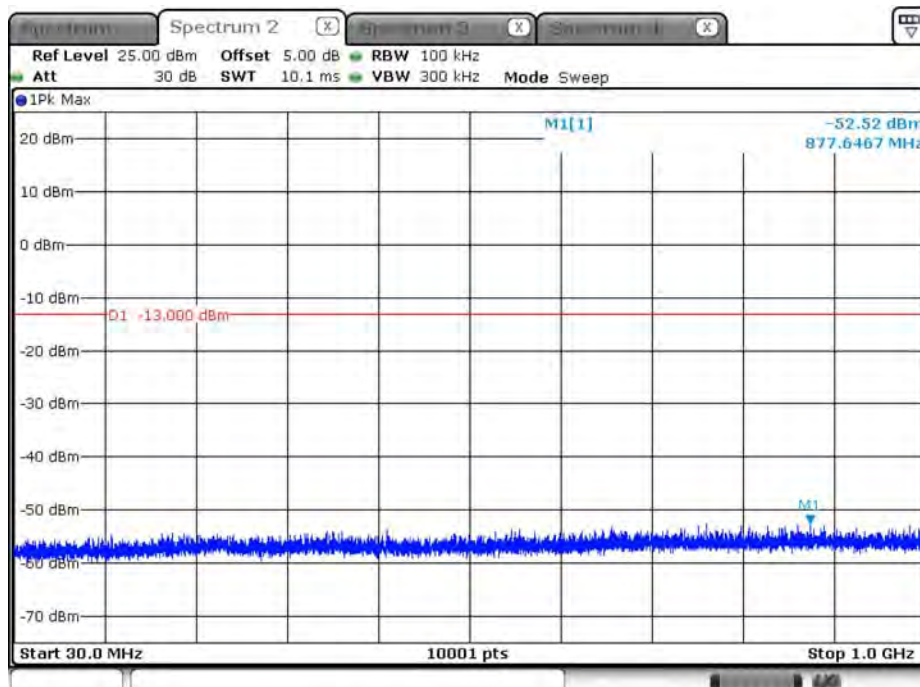
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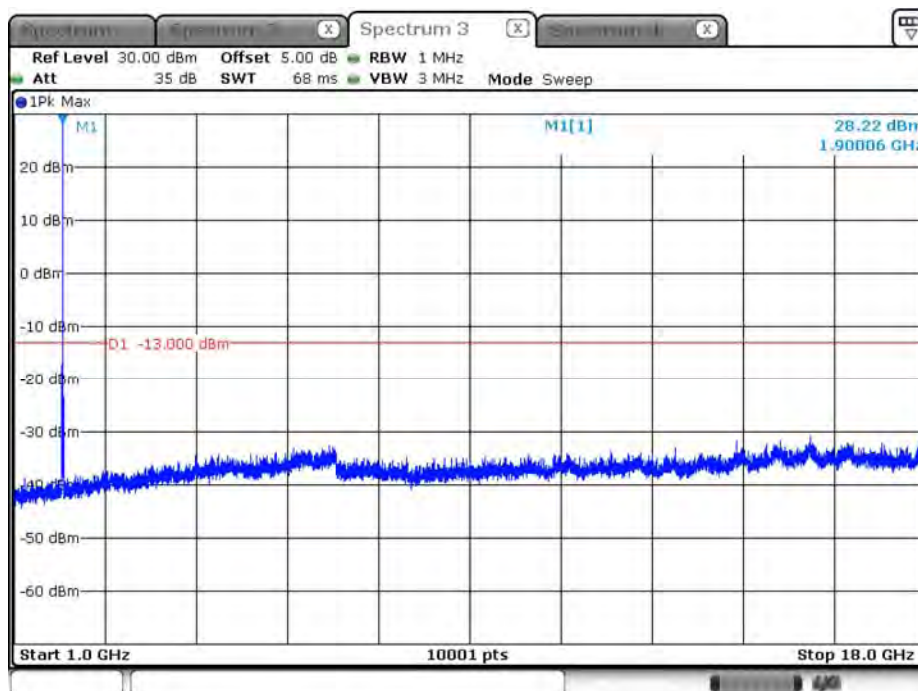
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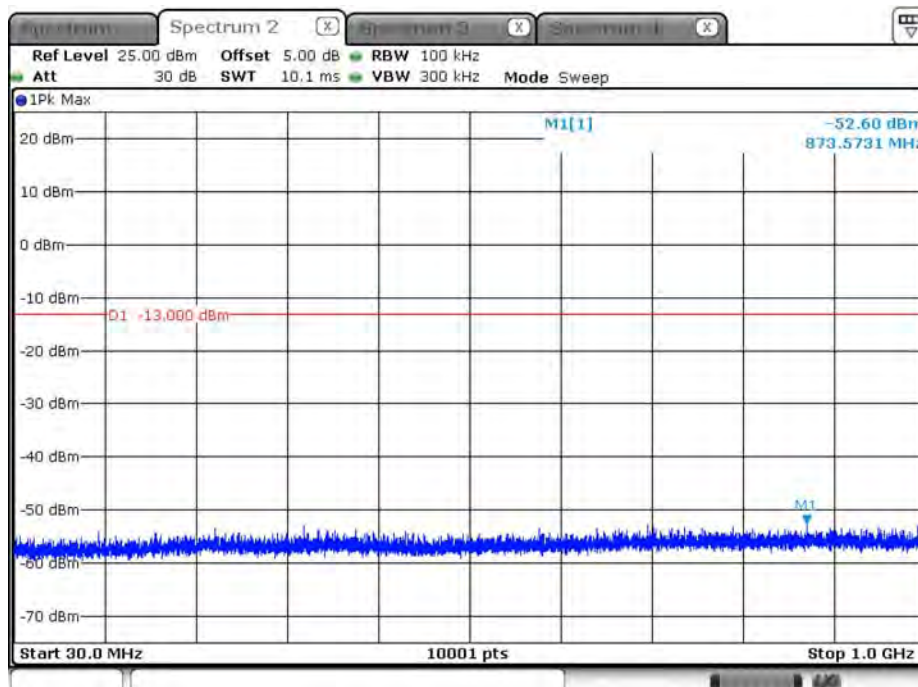
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CH19150_10M_1RB0_QPSK_Above 1G



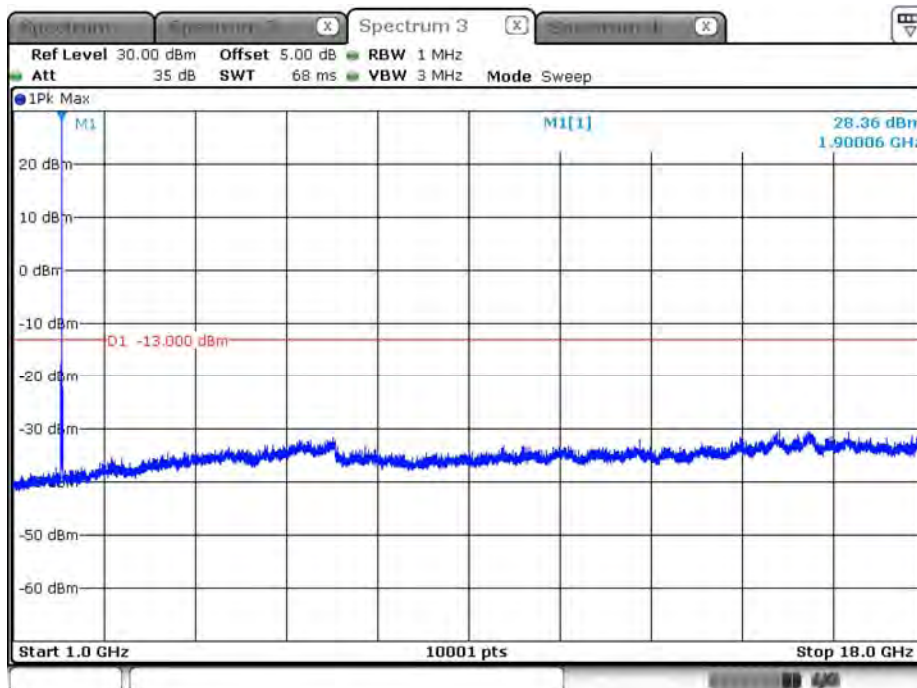
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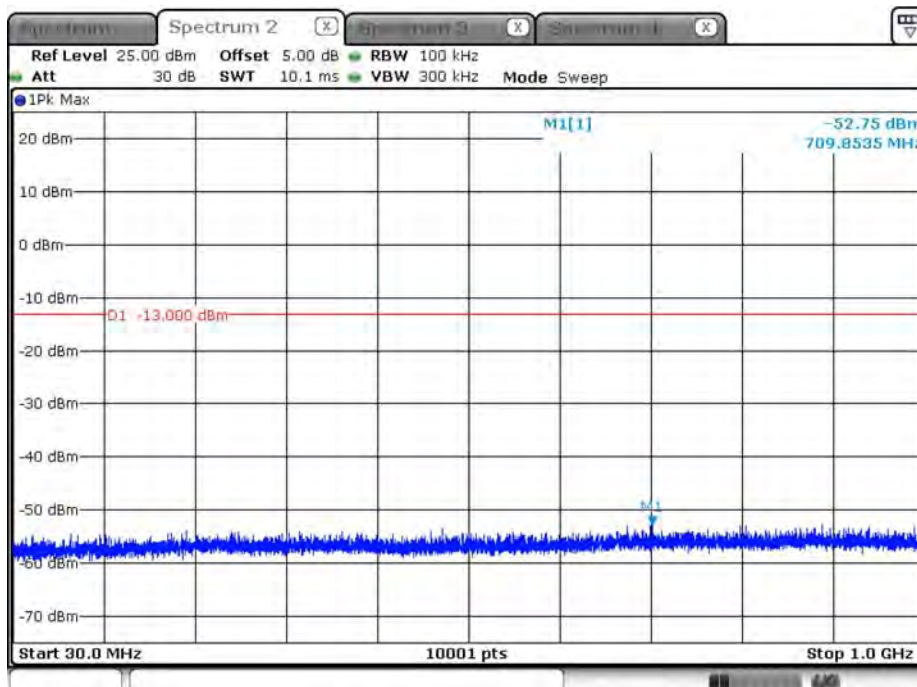
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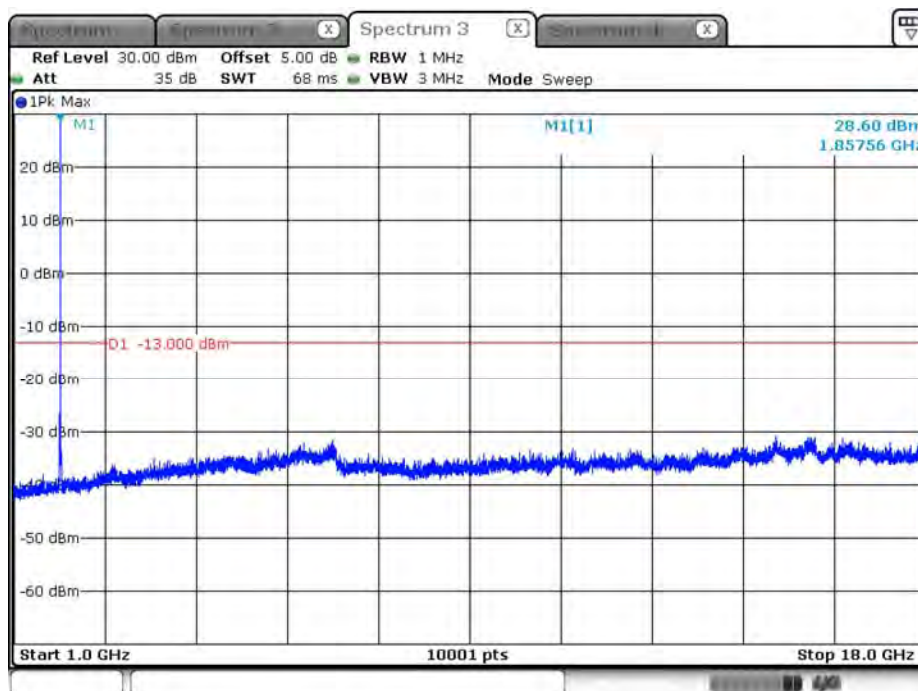
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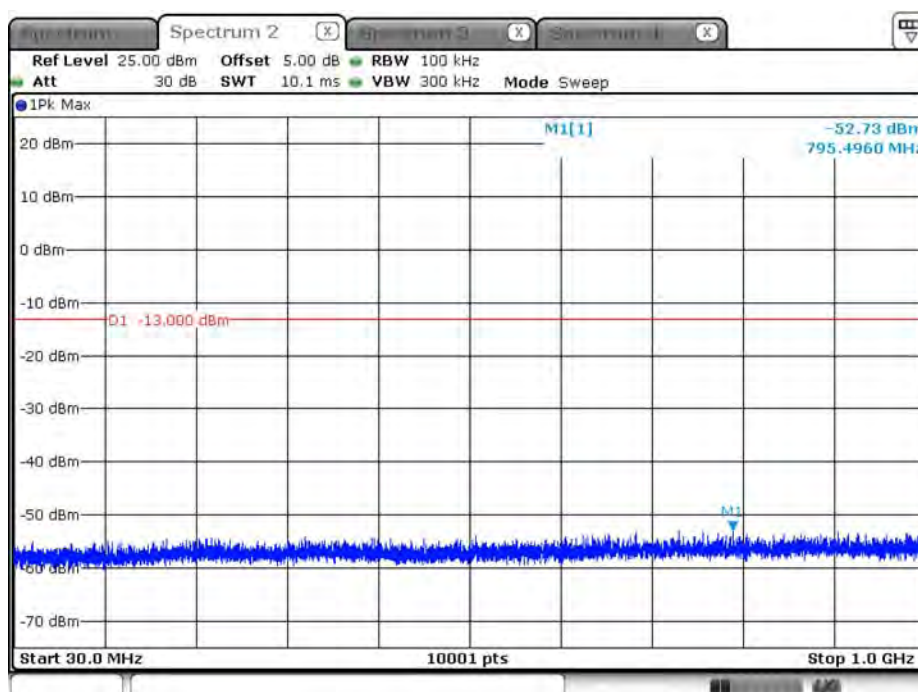
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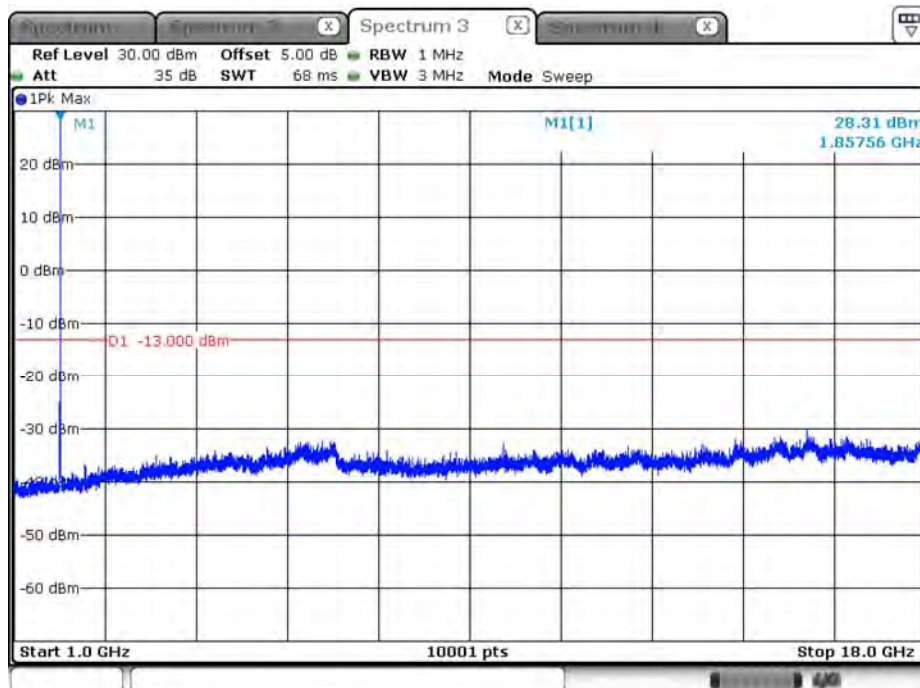
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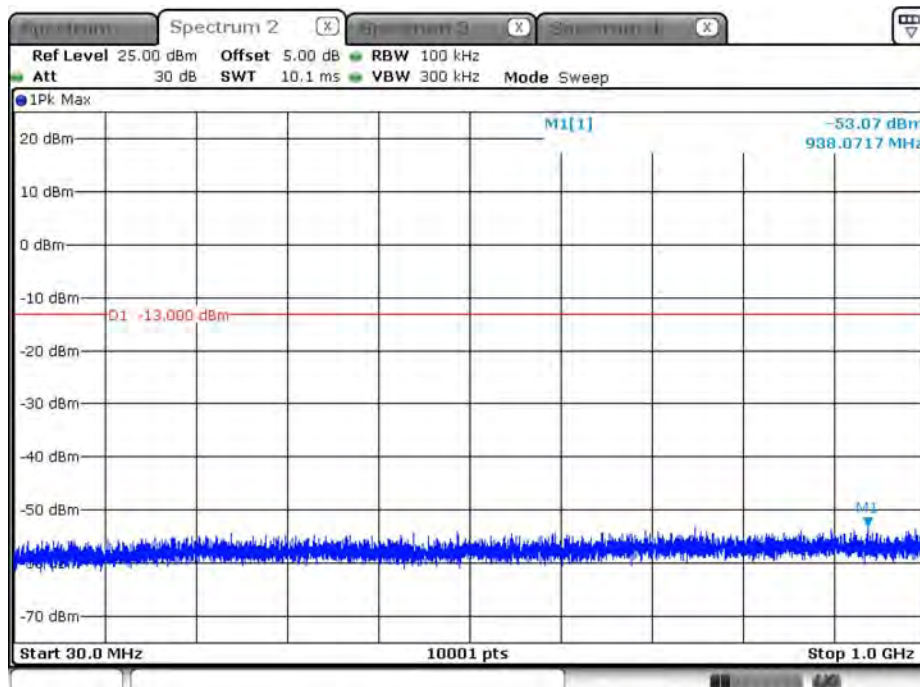
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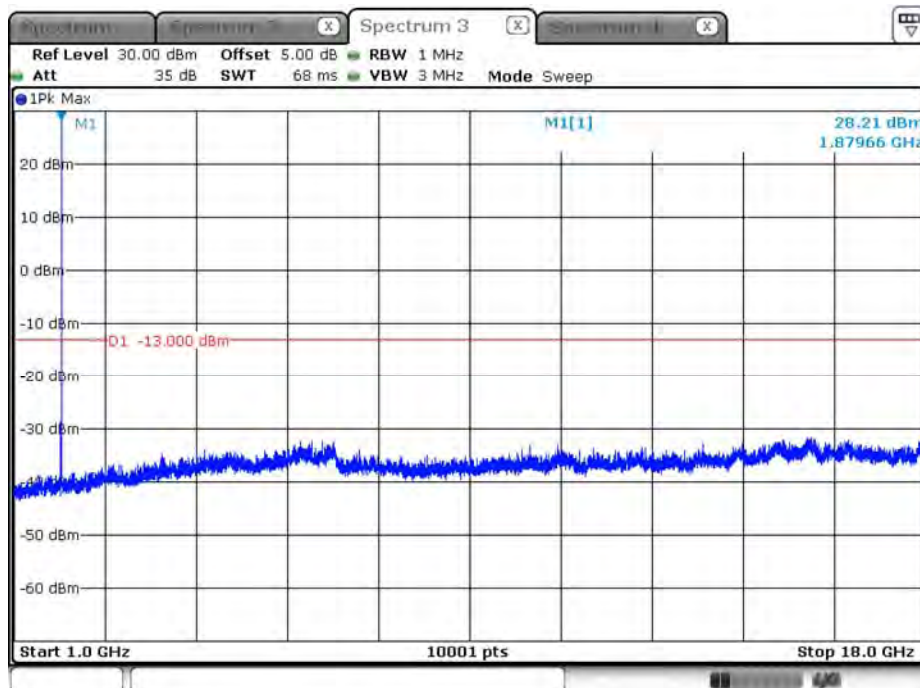
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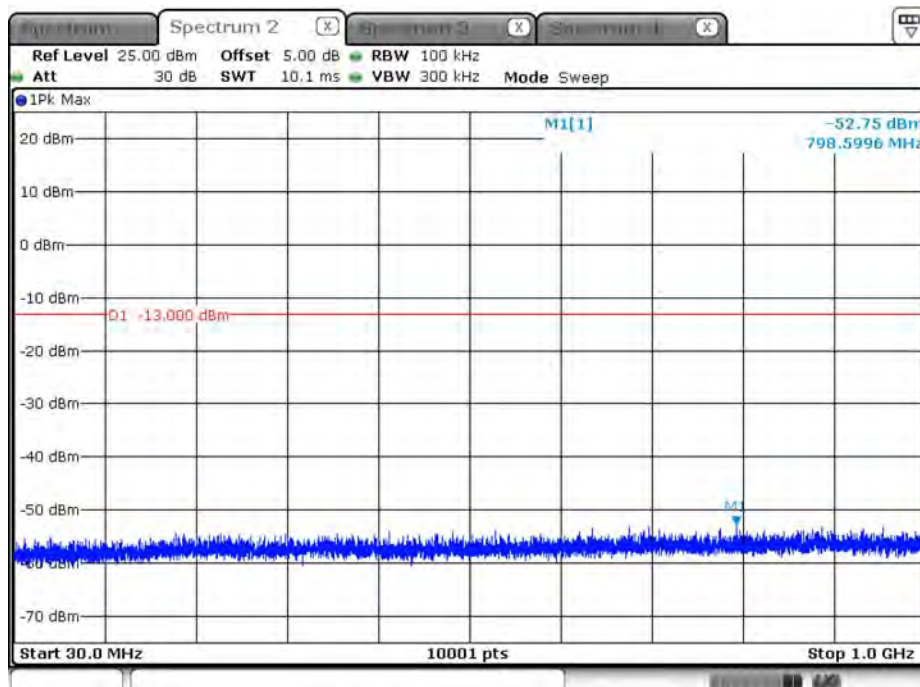
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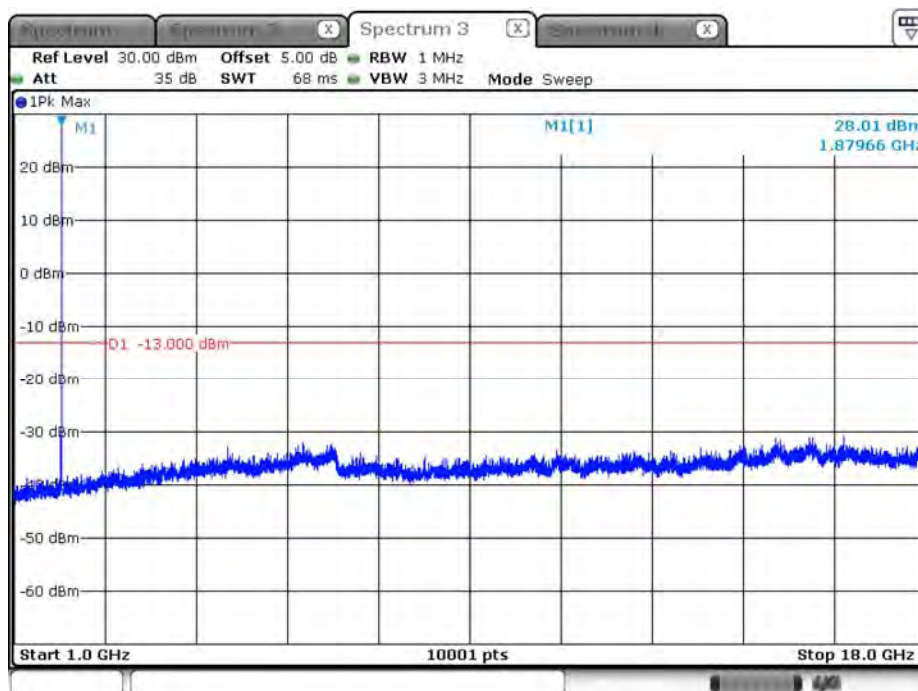
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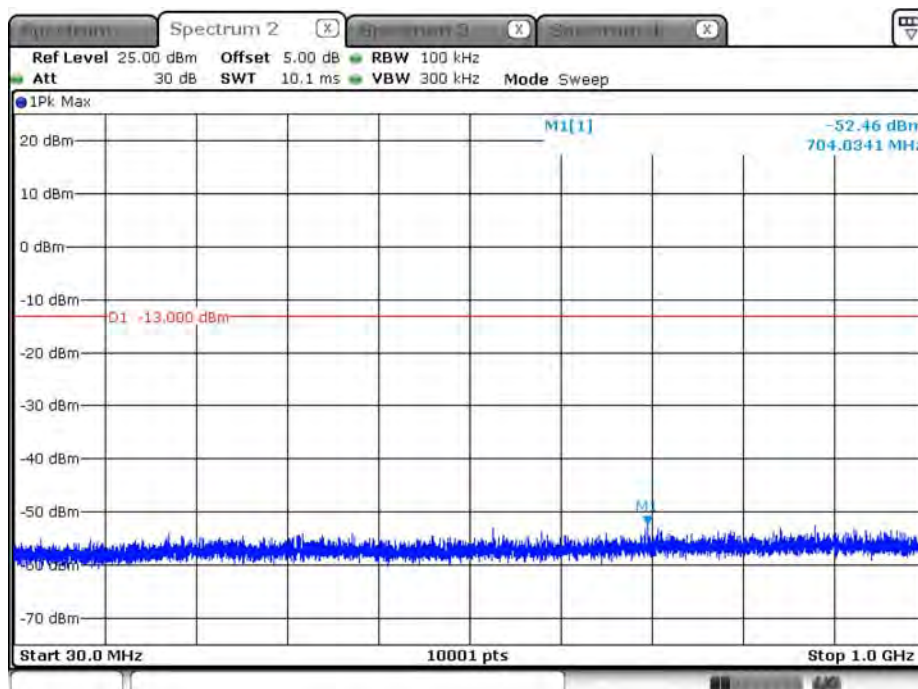
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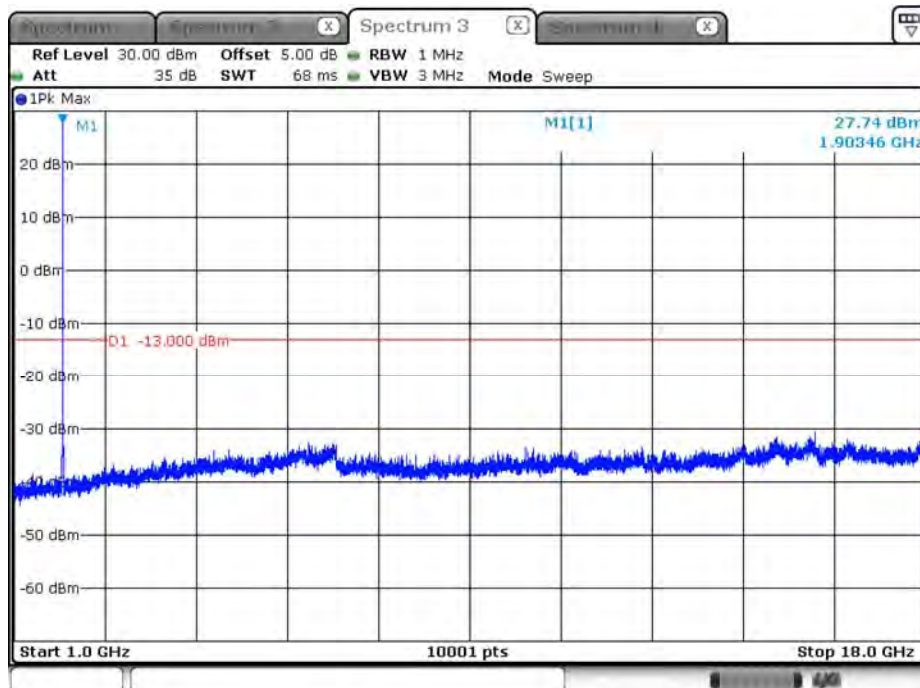
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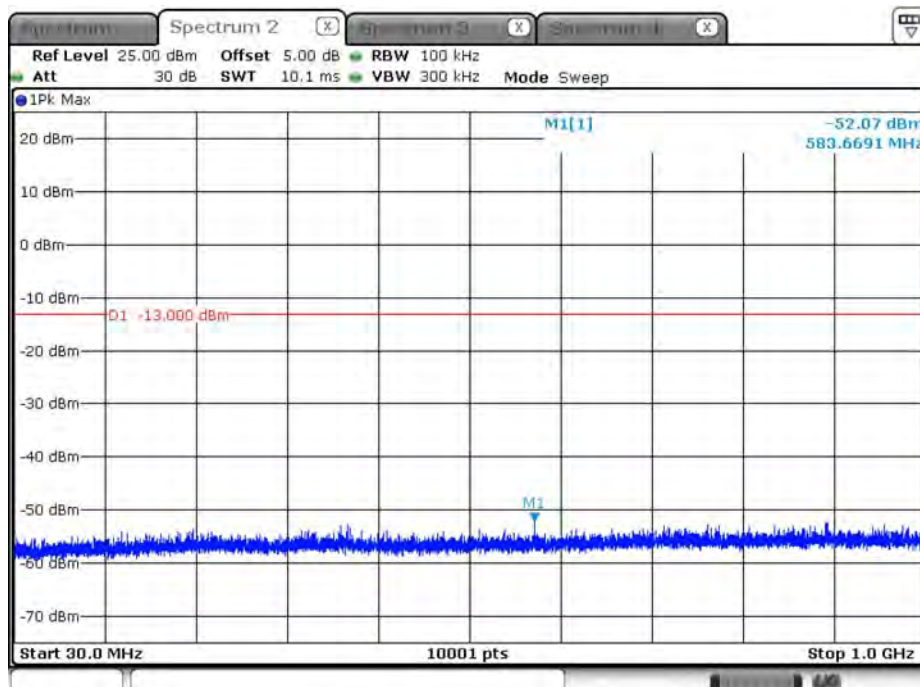
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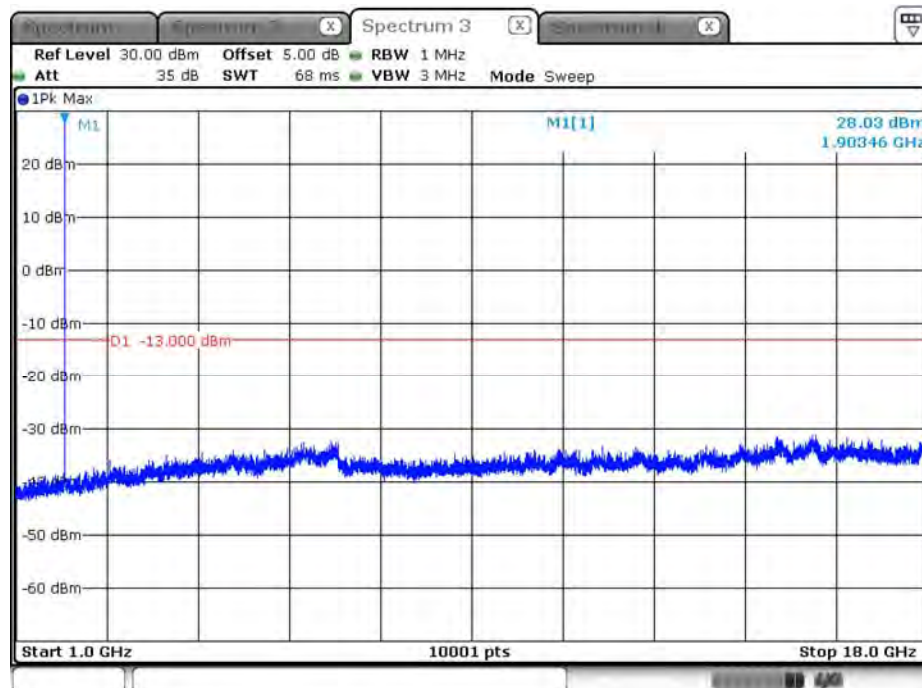
Date: 10 AUG. 2018 09:55:18

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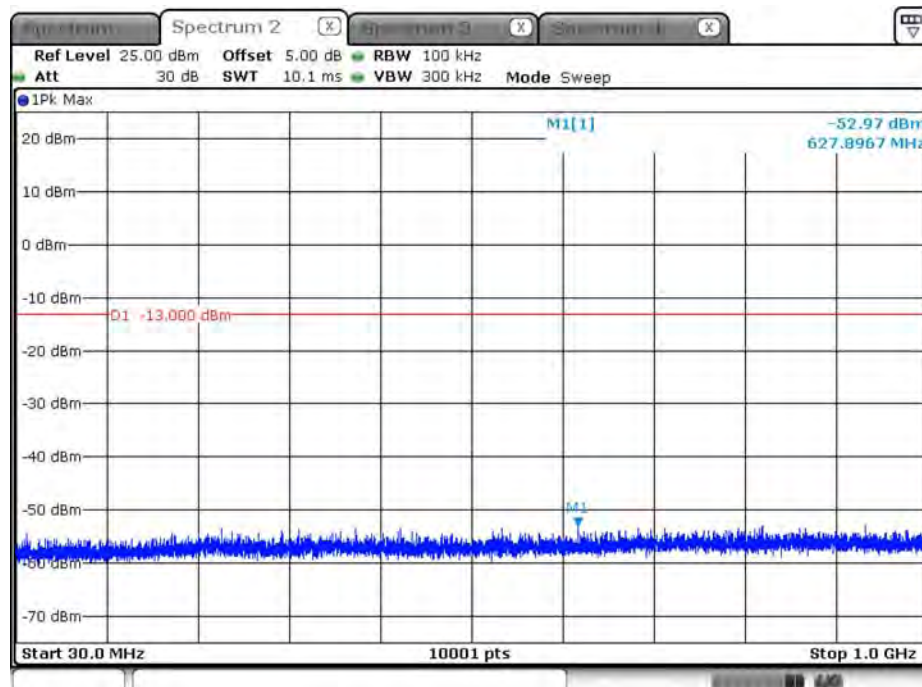
Date: 10 AUG. 2018 09:55:00

CH19125_15M_1RB37_16-QAM_Above 1G



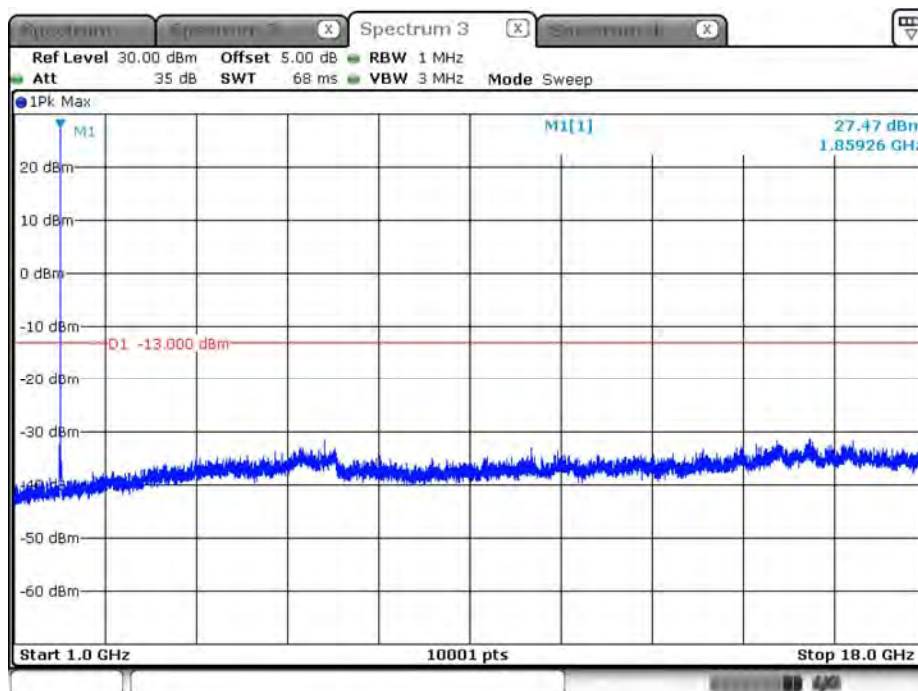
Date: 10 AUG.2018 09:55:46

CH19125_15M_1RB37_16-QAM_Below 1G



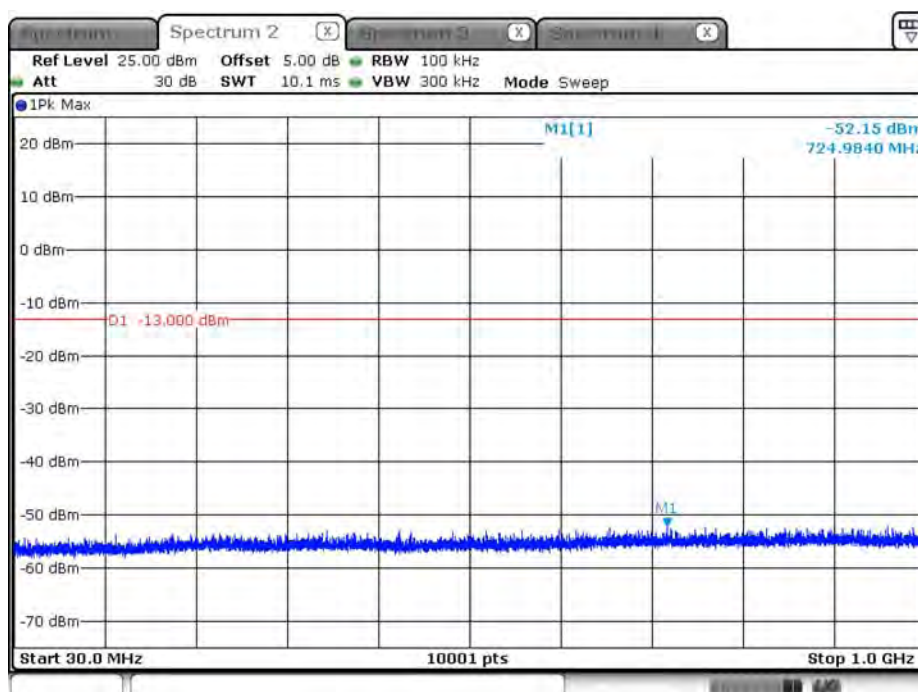
Date: 10 AUG.2018 09:56:00

CH18700_20M_1RB49_QPSK_Above 1G



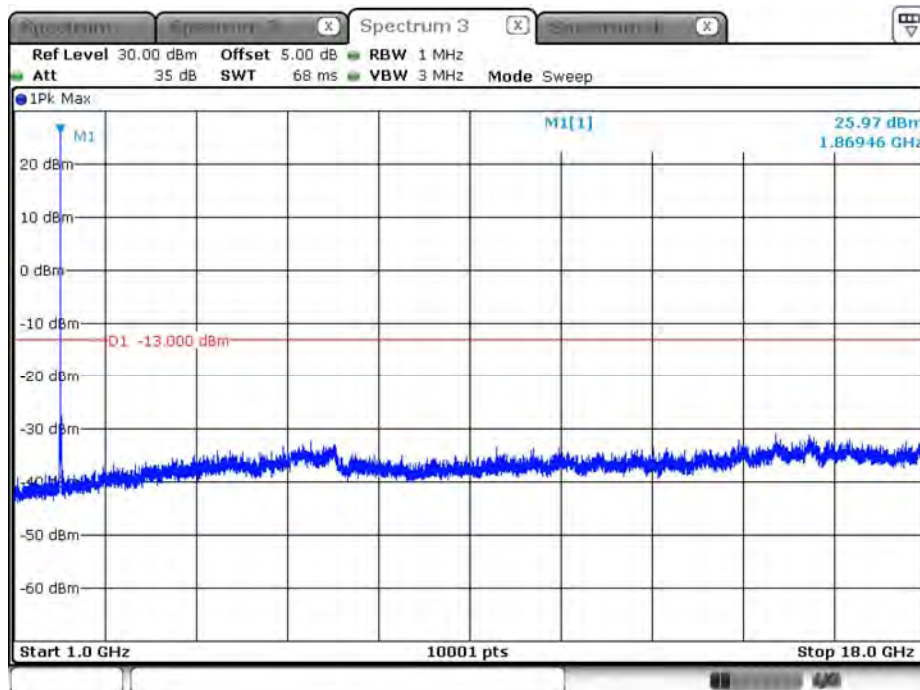
Date: 10 AUG. 2018 09:57:21

CH18700_20M_1RB49_QPSK_Below 1G



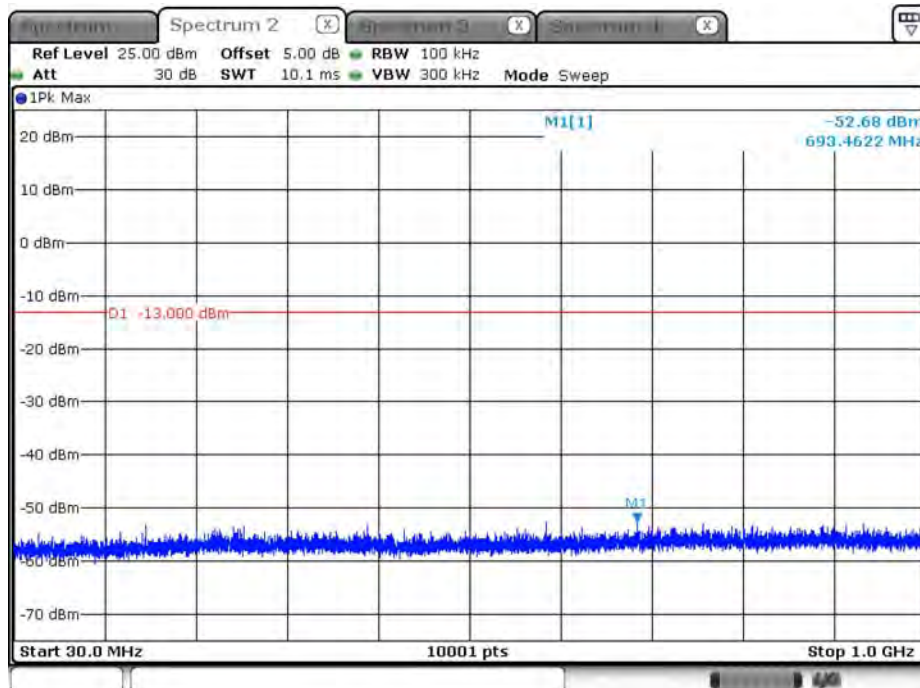
Date: 10 AUG. 2018 09:57:10

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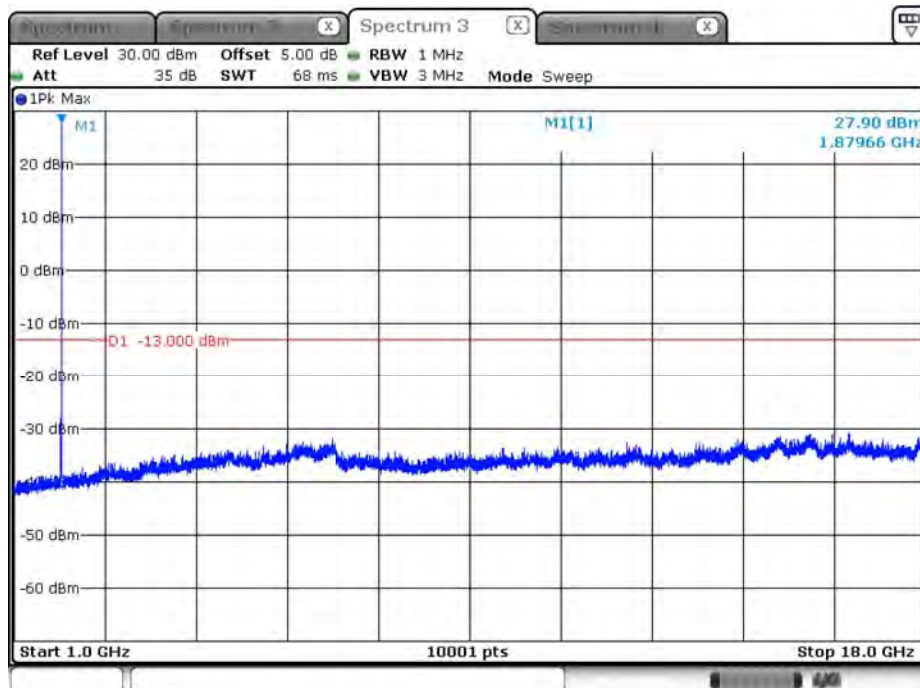
Date: 10 AUG 2018 10:00:38

CH18700_20M_1RB99_16-QAM_Below 1G



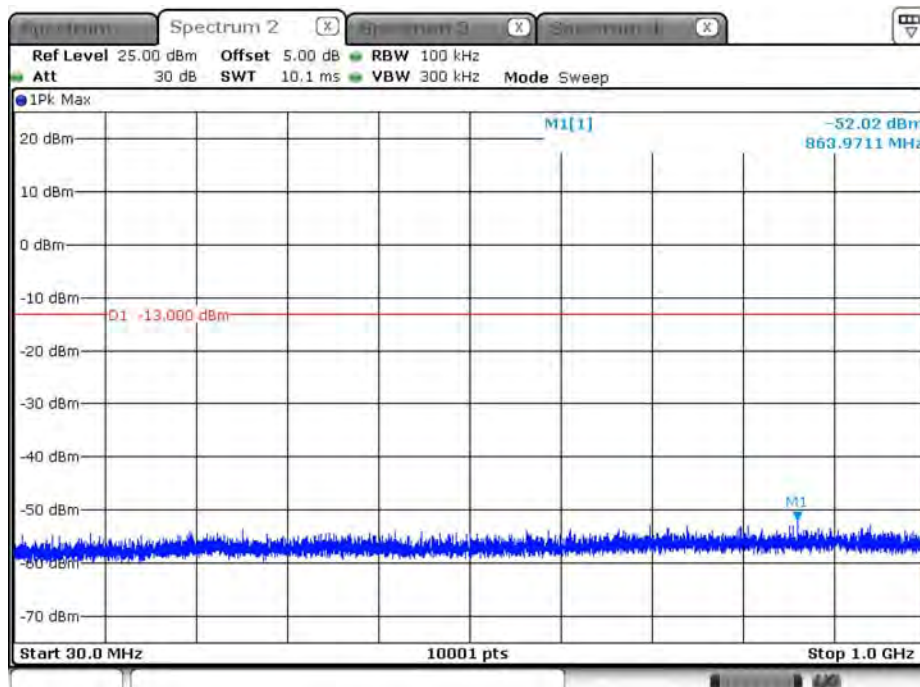
Date: 10 AUG 2018 10:01:13

CH18900_20M_1RB49_QPSK_Above 1G



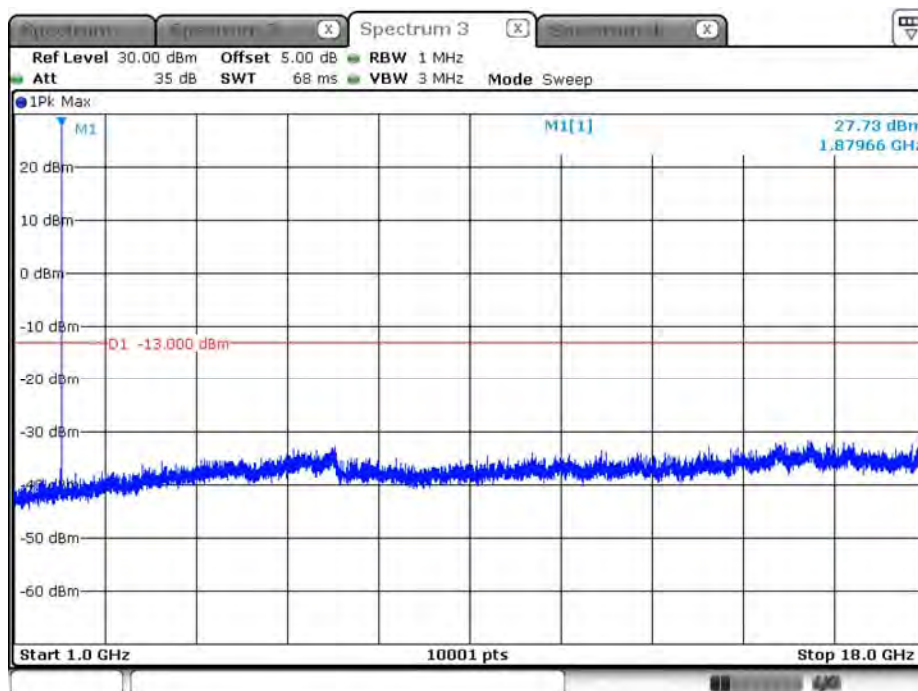
Date: 10 AUG 2018 10:02:25

CH18900_20M_1RB49_QPSK_Below 1G



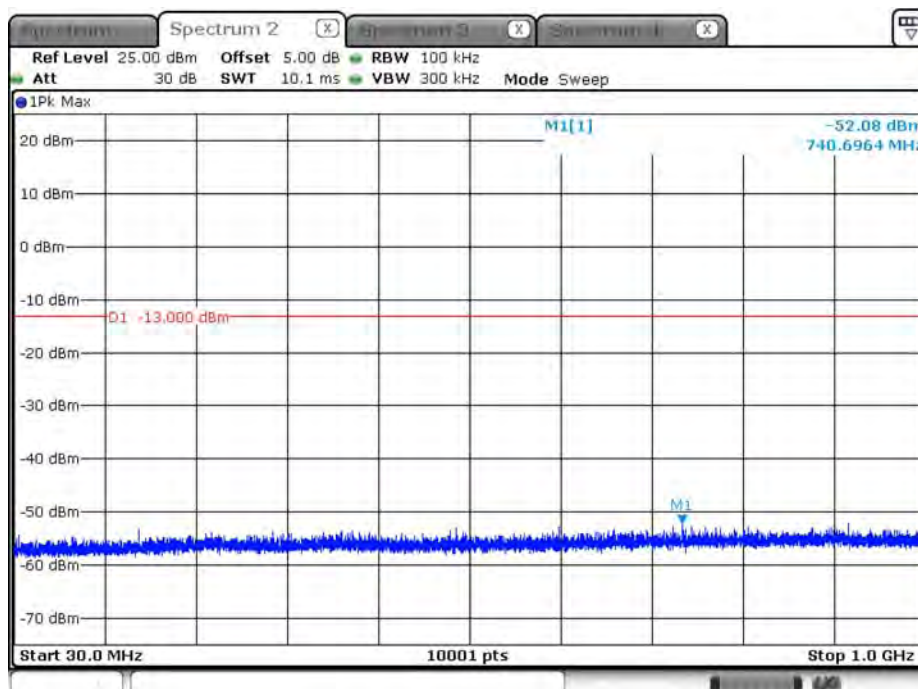
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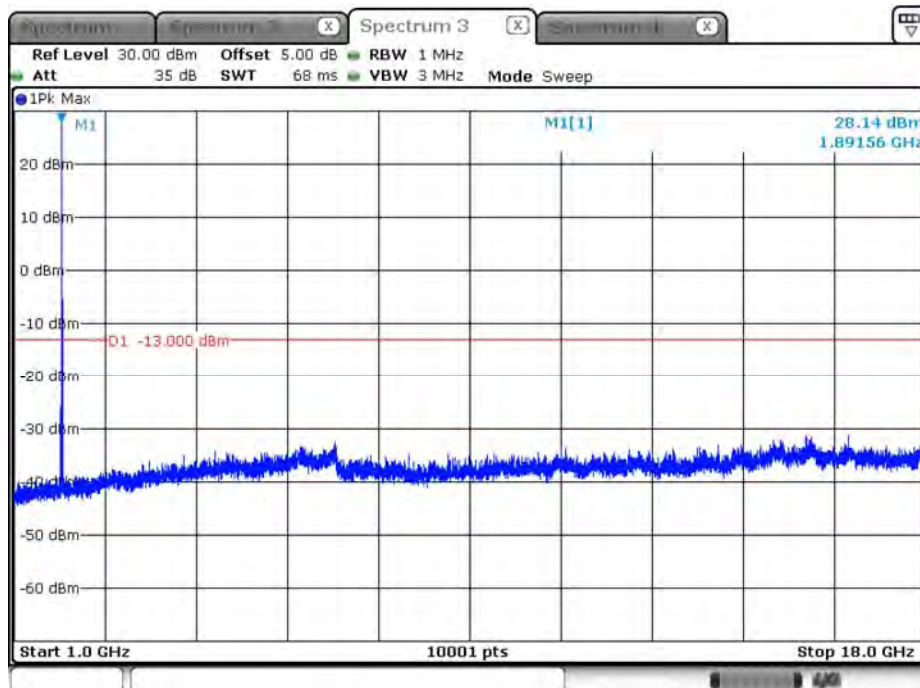
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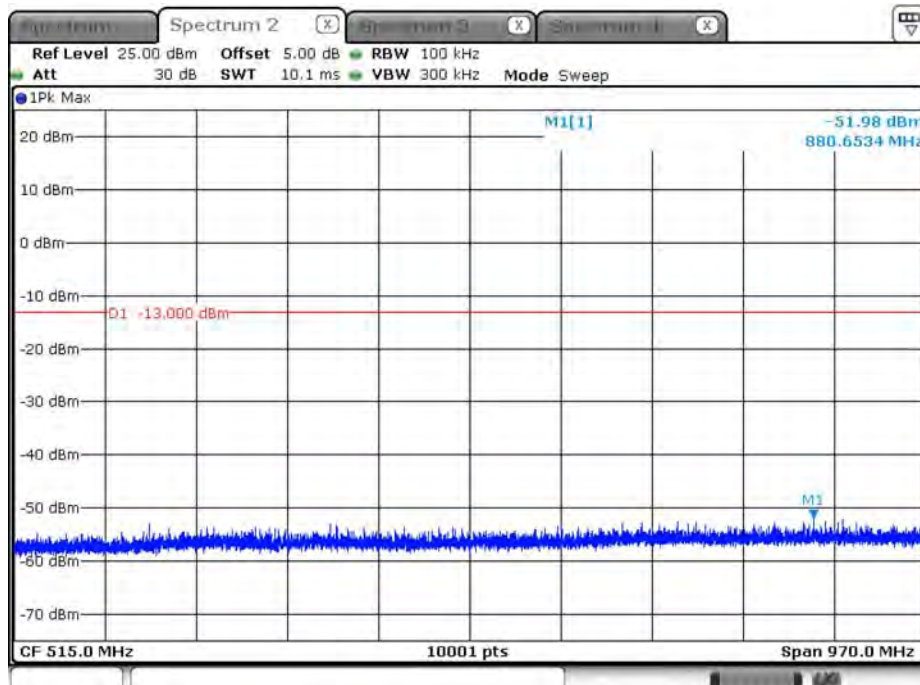
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CH19100_20M_1RB0_QPSK_Above 1G



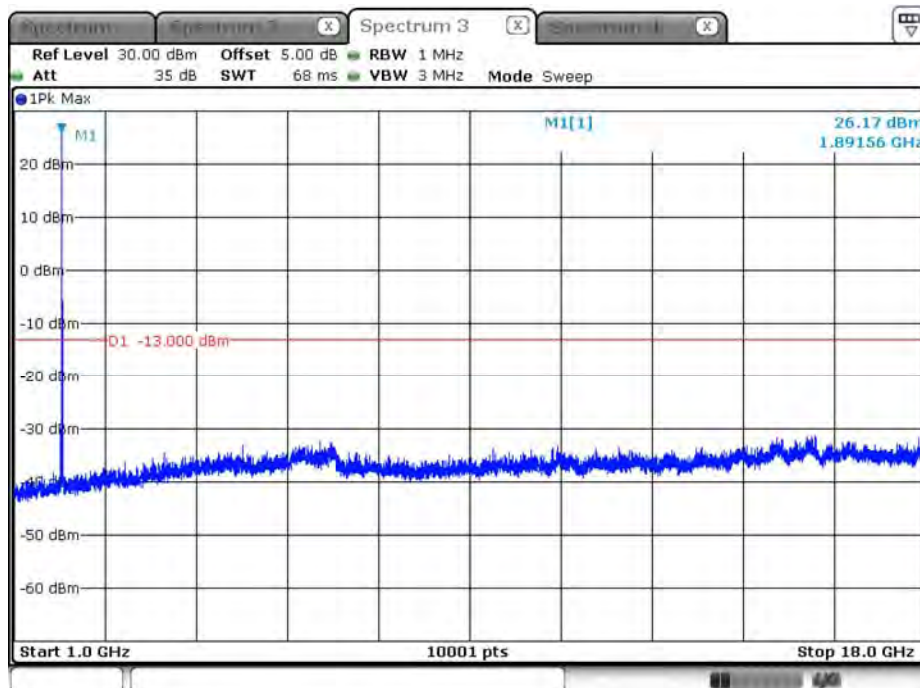
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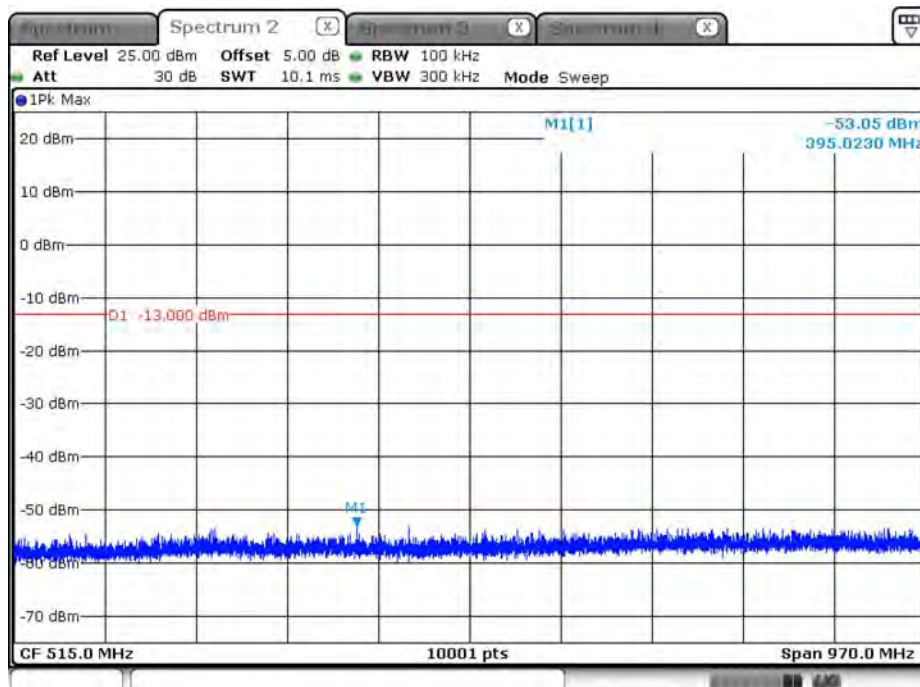
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CH19100_20M_1RB0_16-QAM_Above 1G



Date: 10 AUG.2018 10:05:01

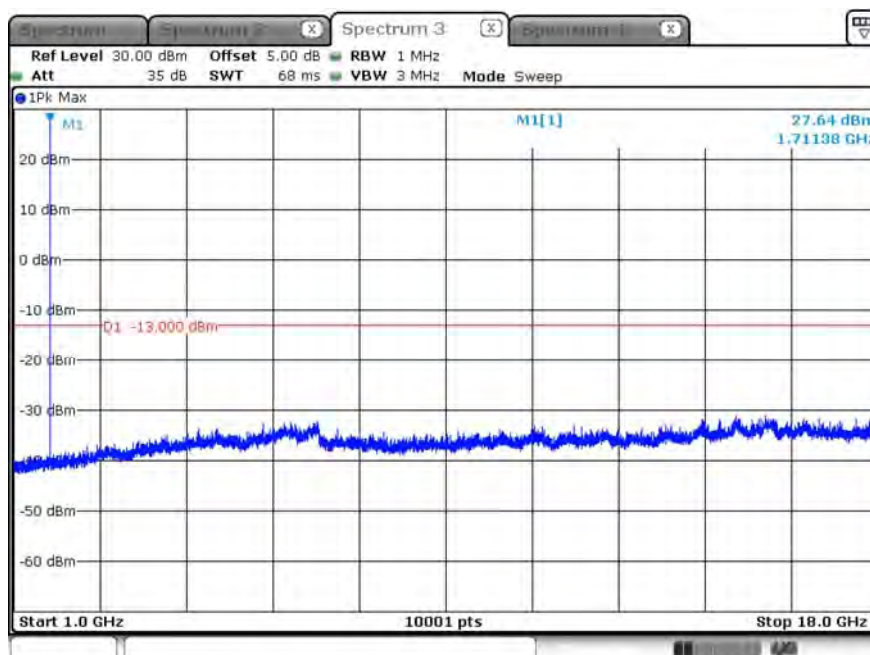
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Date: 10 AUG.2018 10:05:24

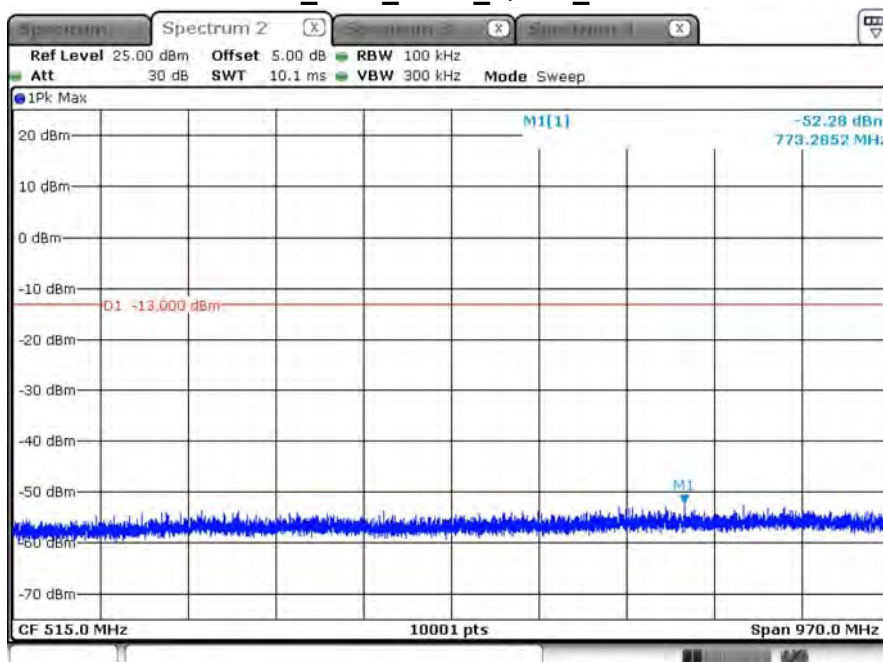
Product	LE910C4-NF		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/08/08	Test Site	SR10-H

CH19957_1.4M_1RB2_QPSK_Above 1G



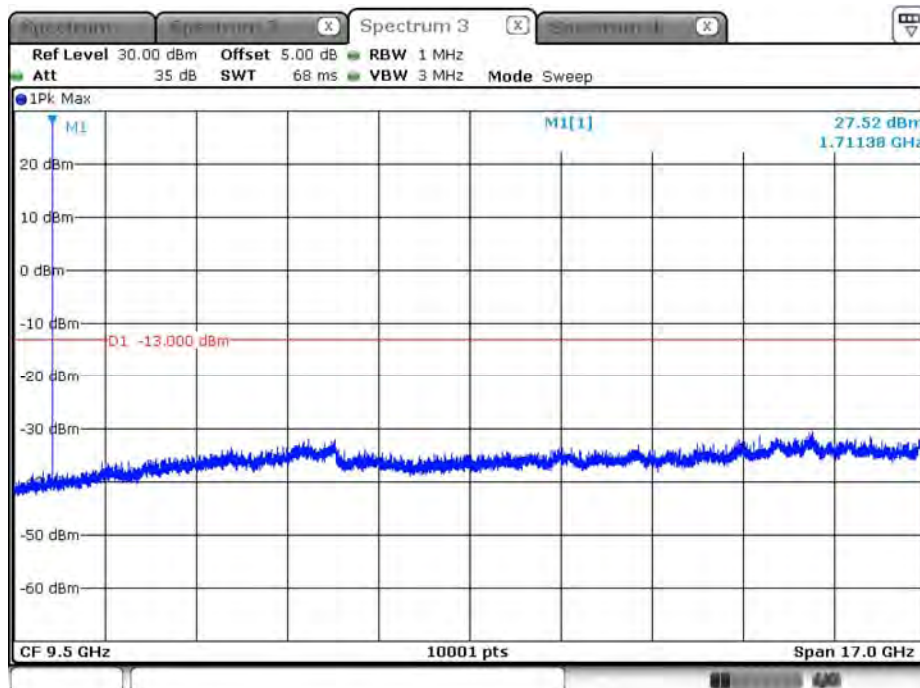
Date: 10 AUG 2018 10:07:29

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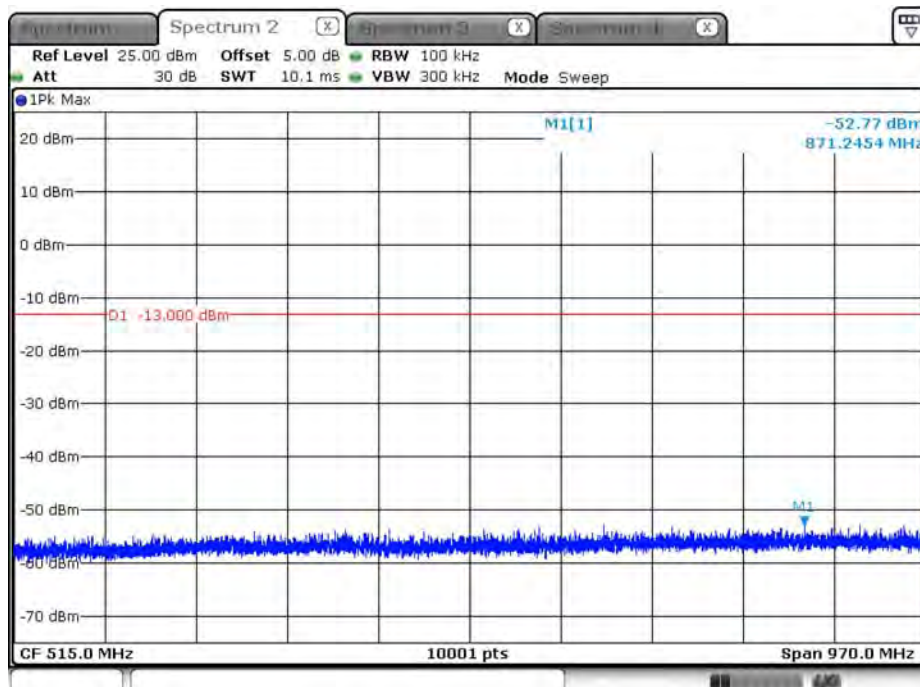
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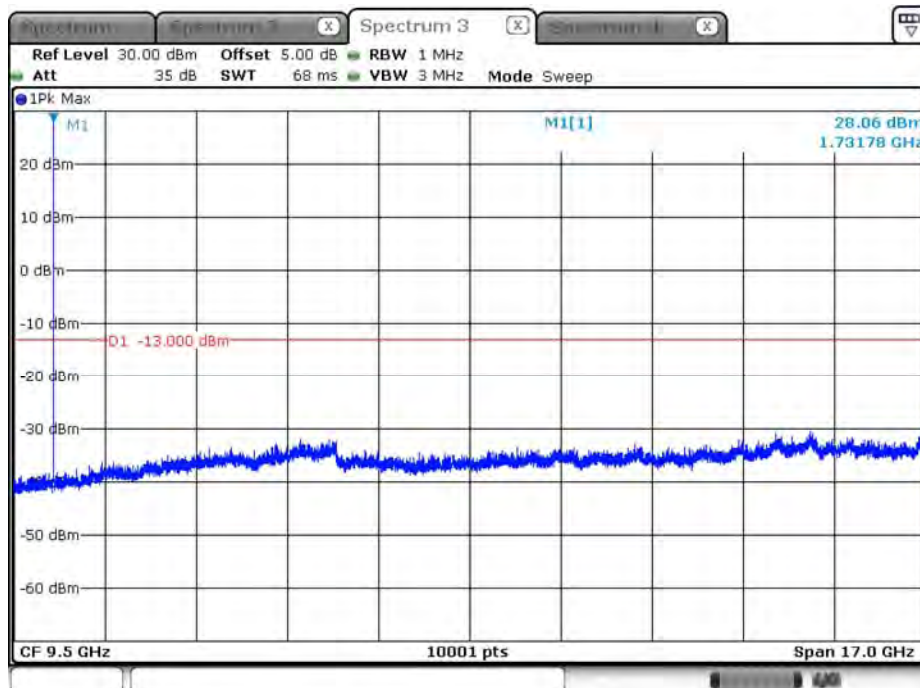
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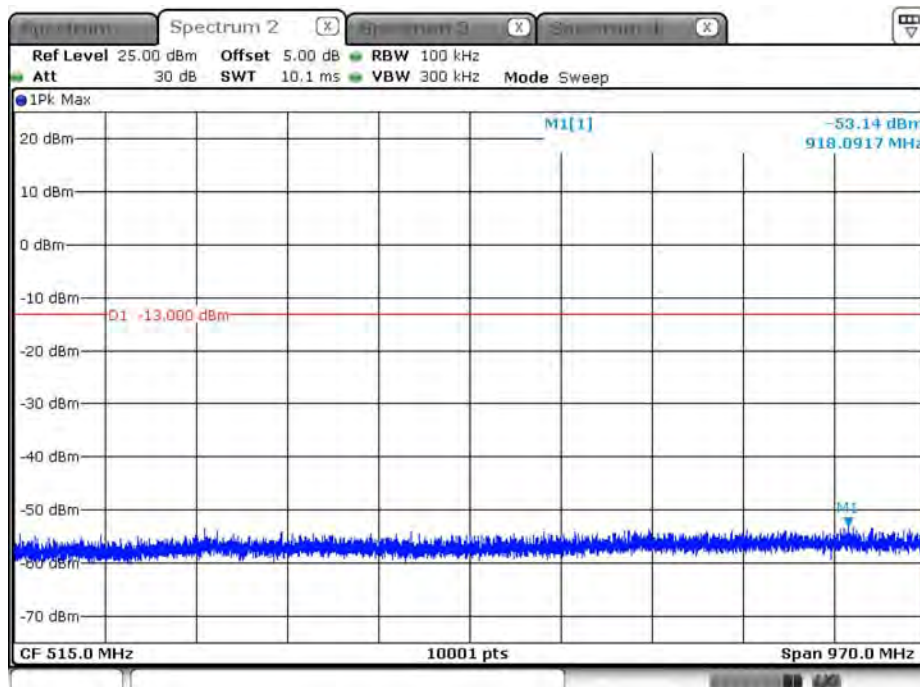
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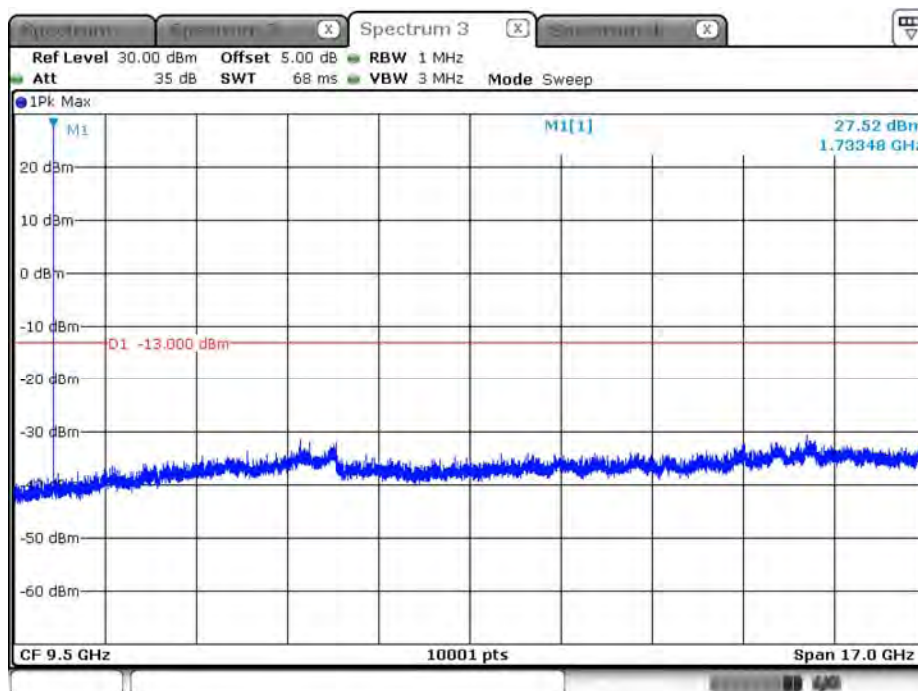
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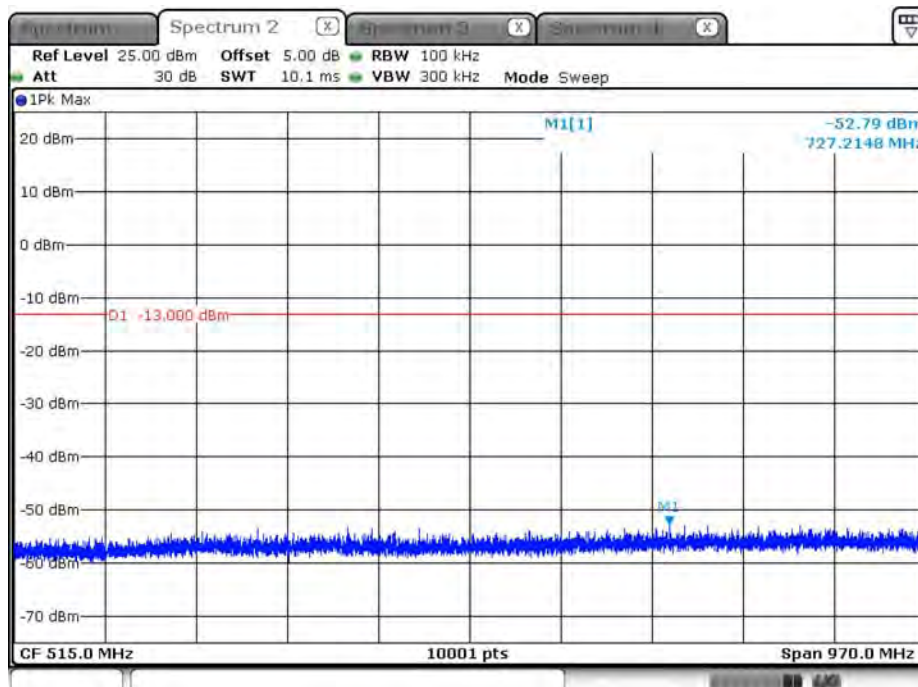
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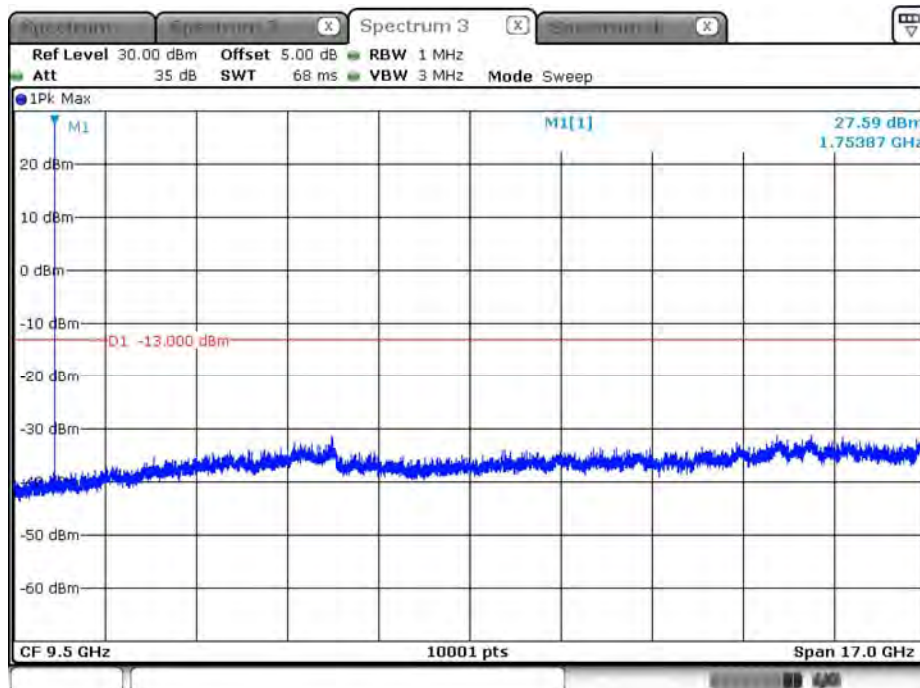
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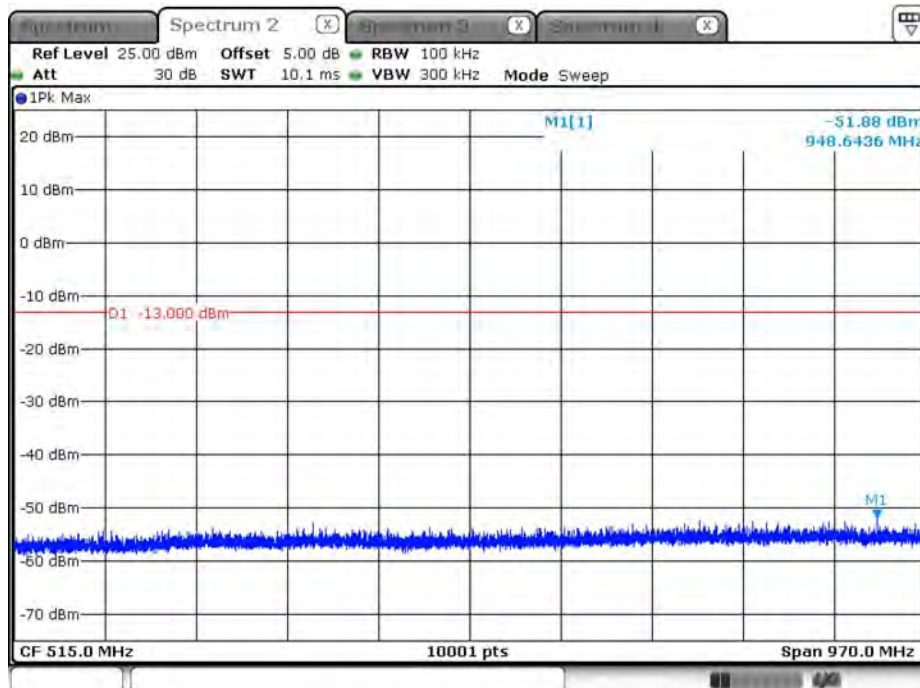
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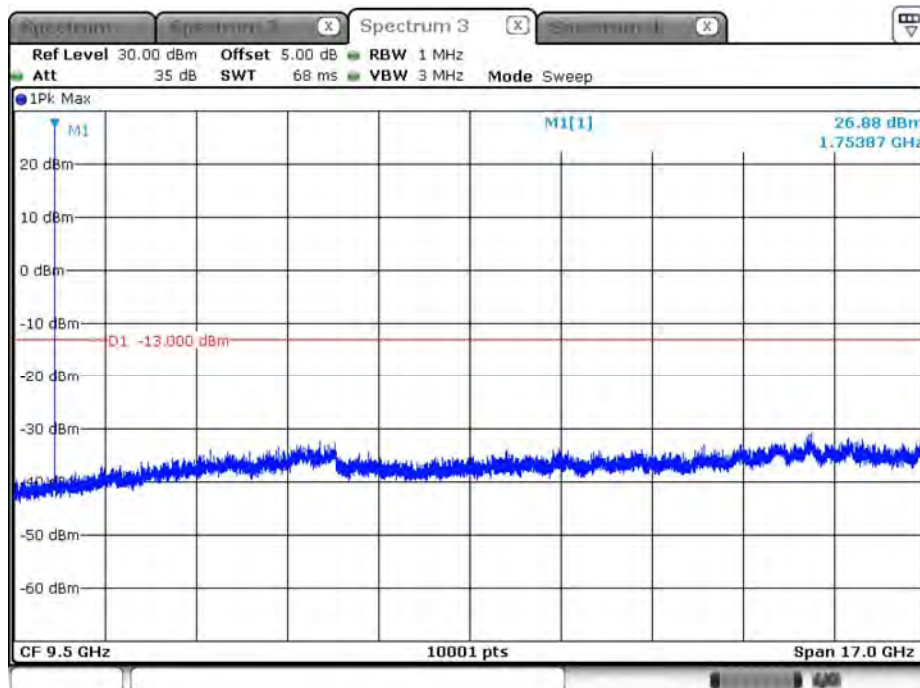
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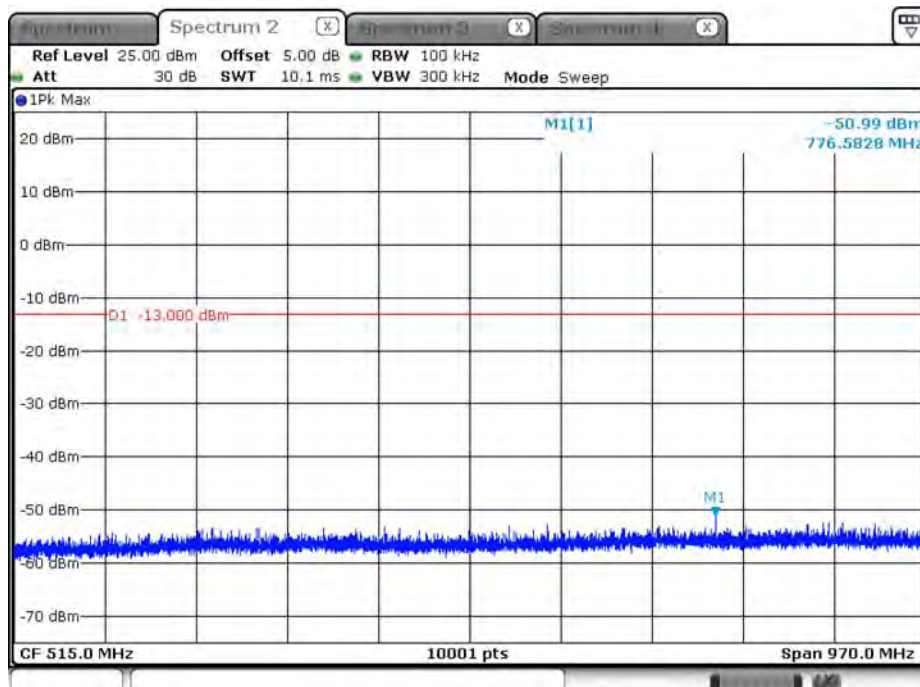
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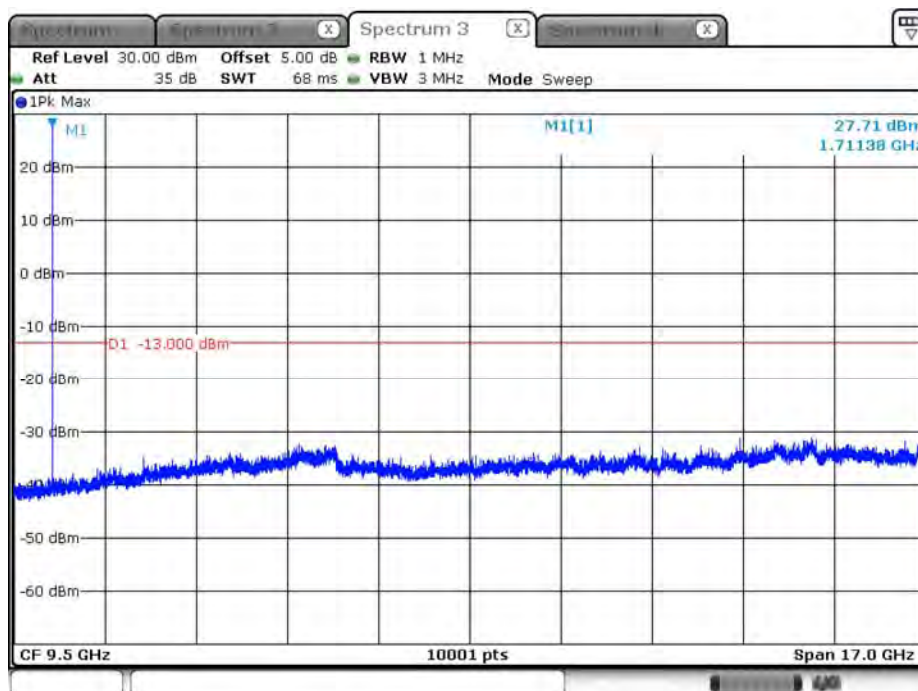
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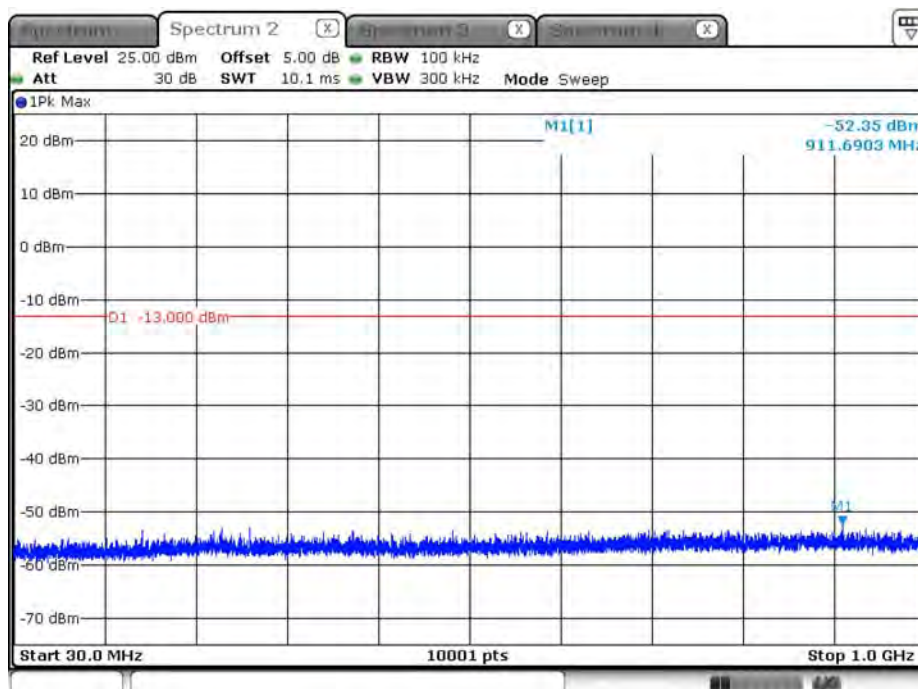
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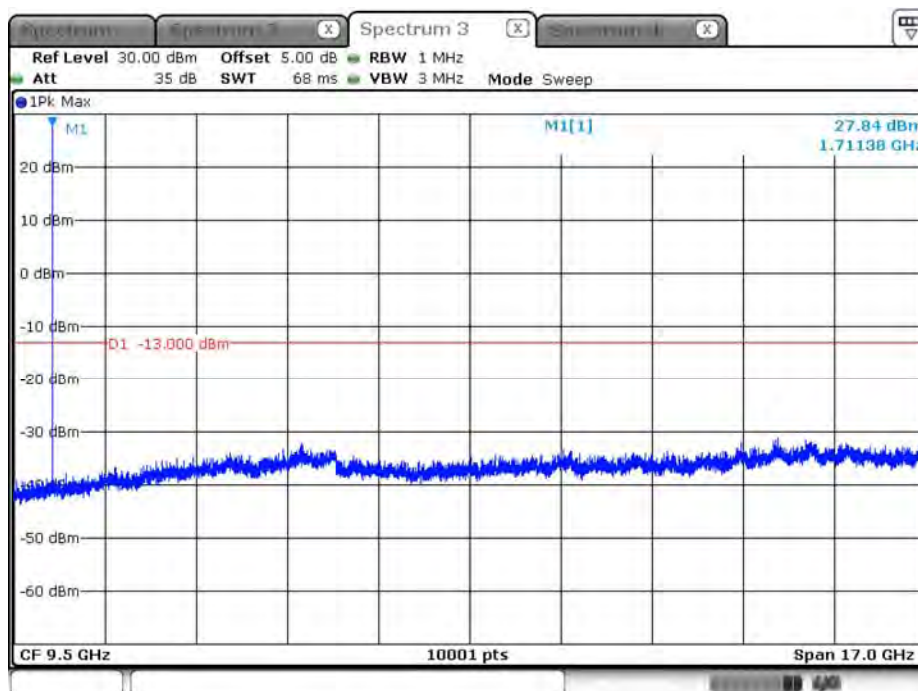
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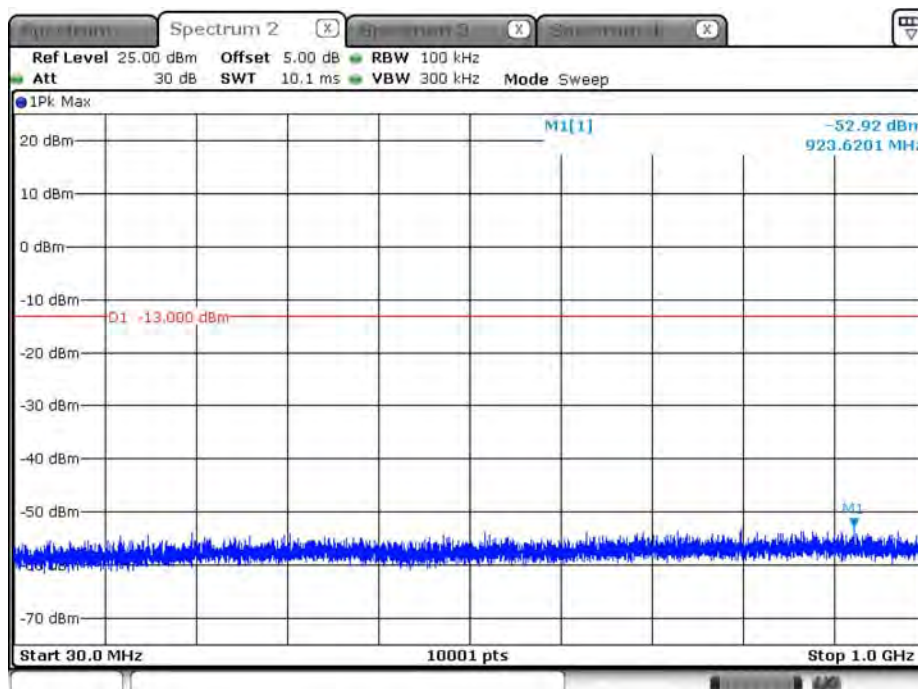
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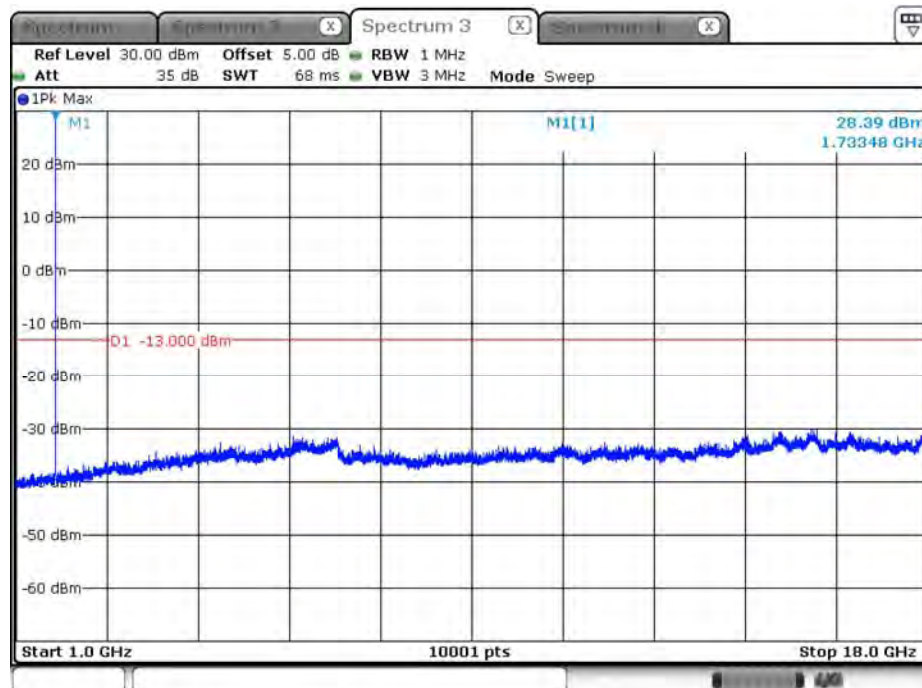
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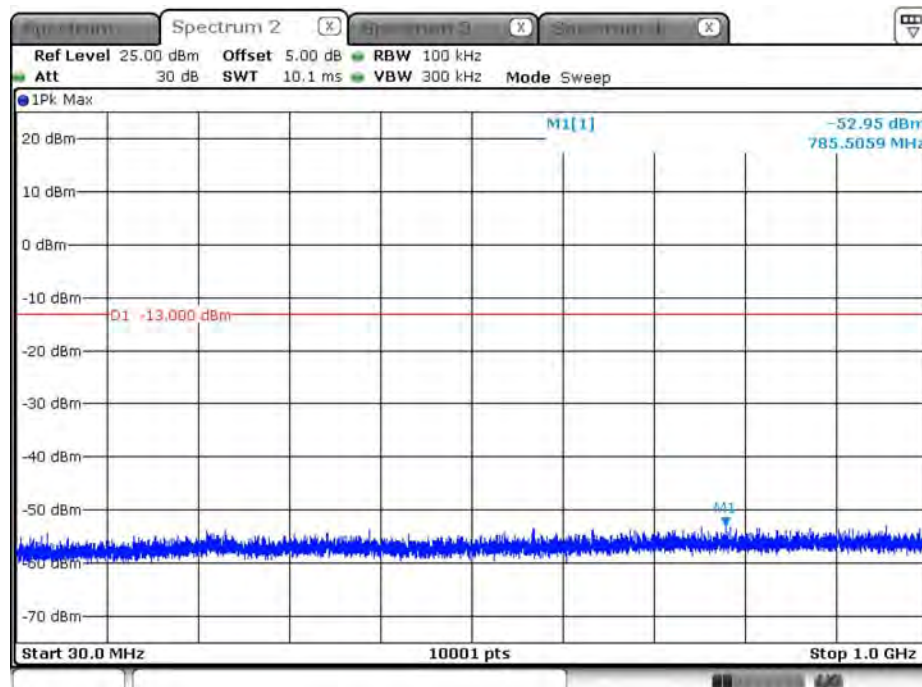
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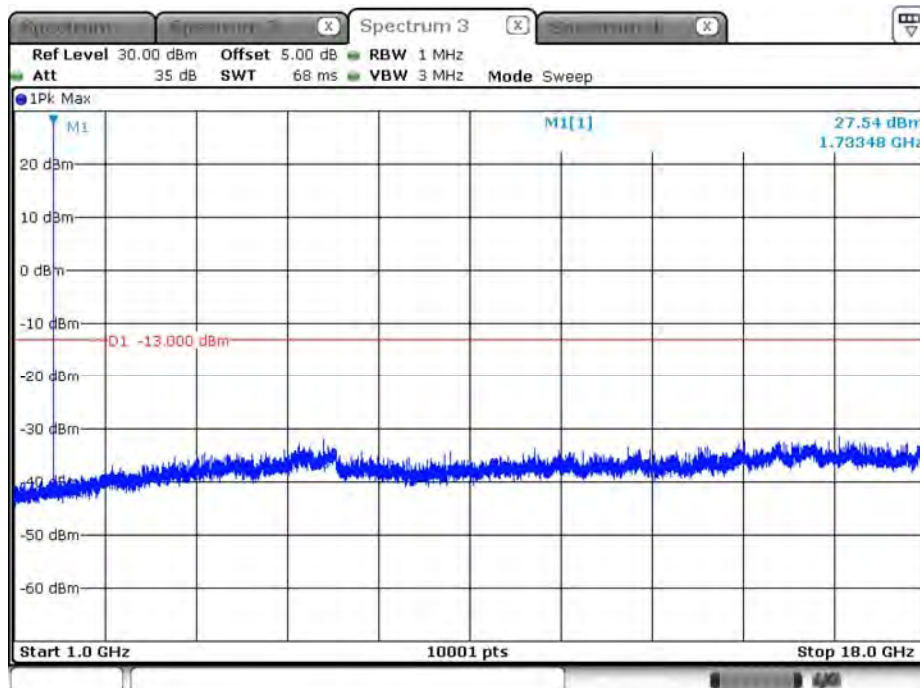
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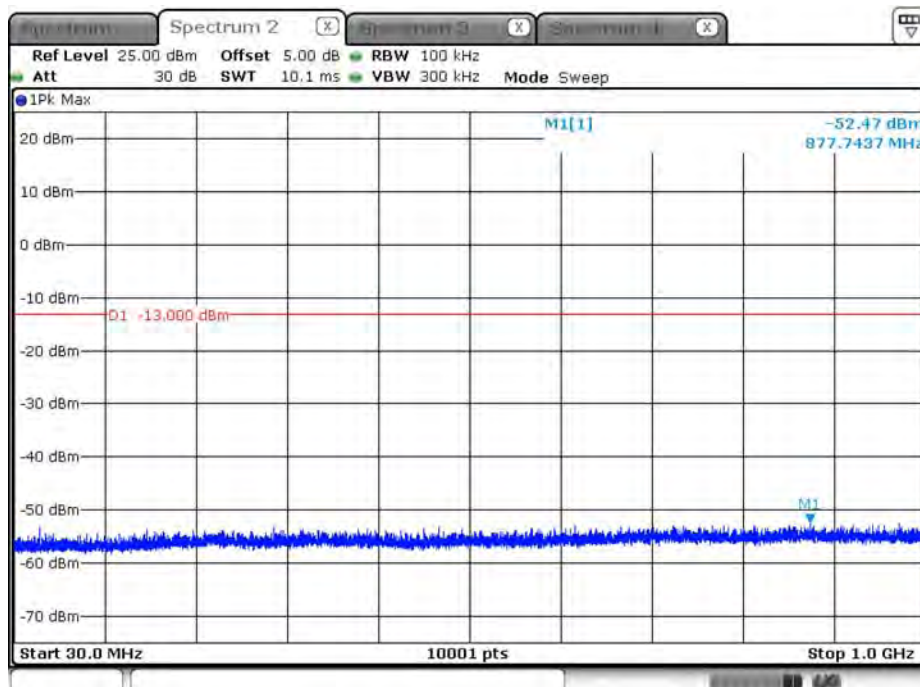
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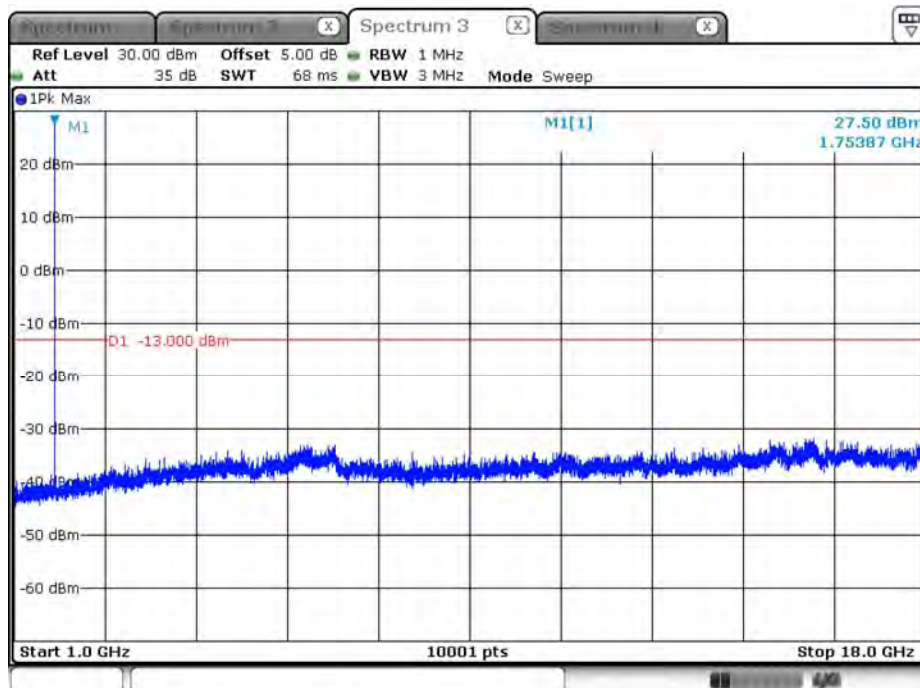
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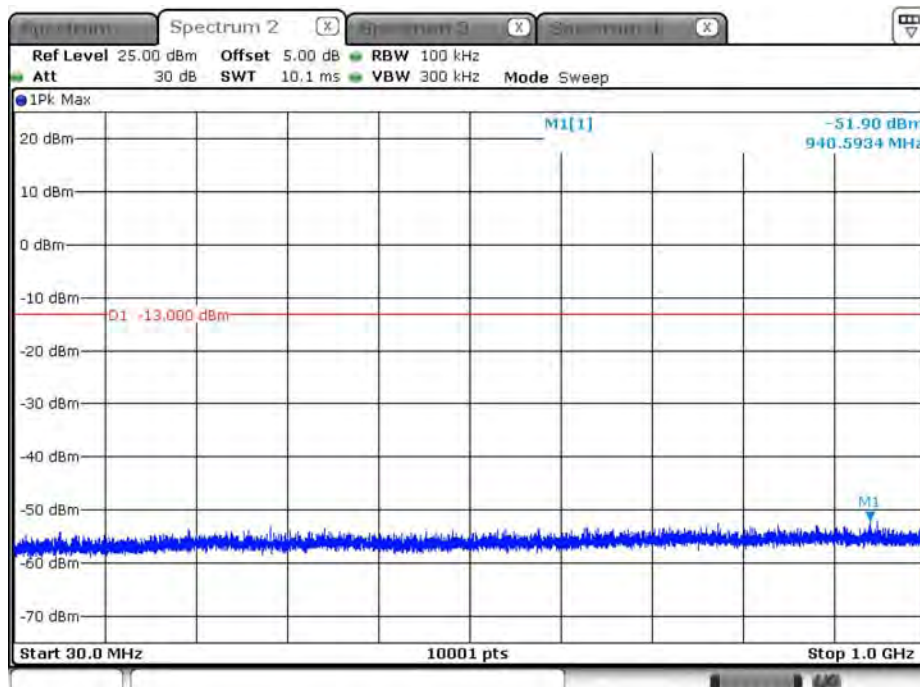
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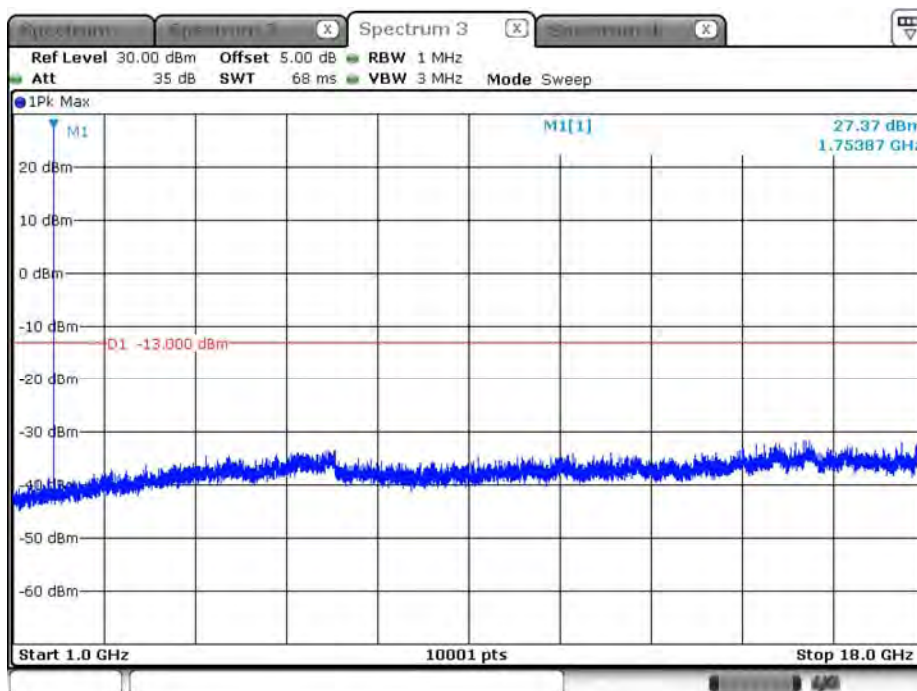
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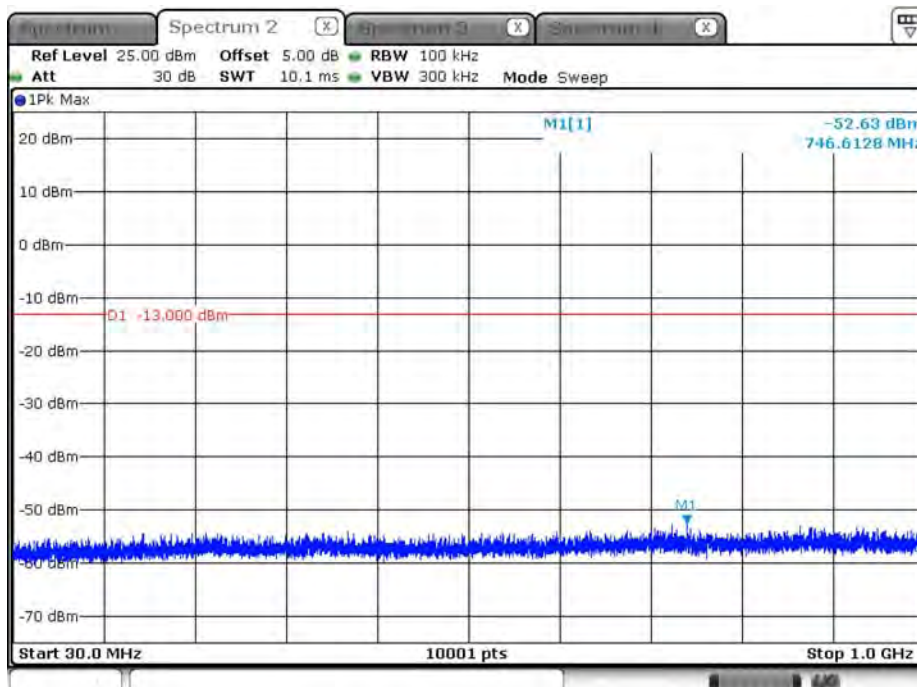
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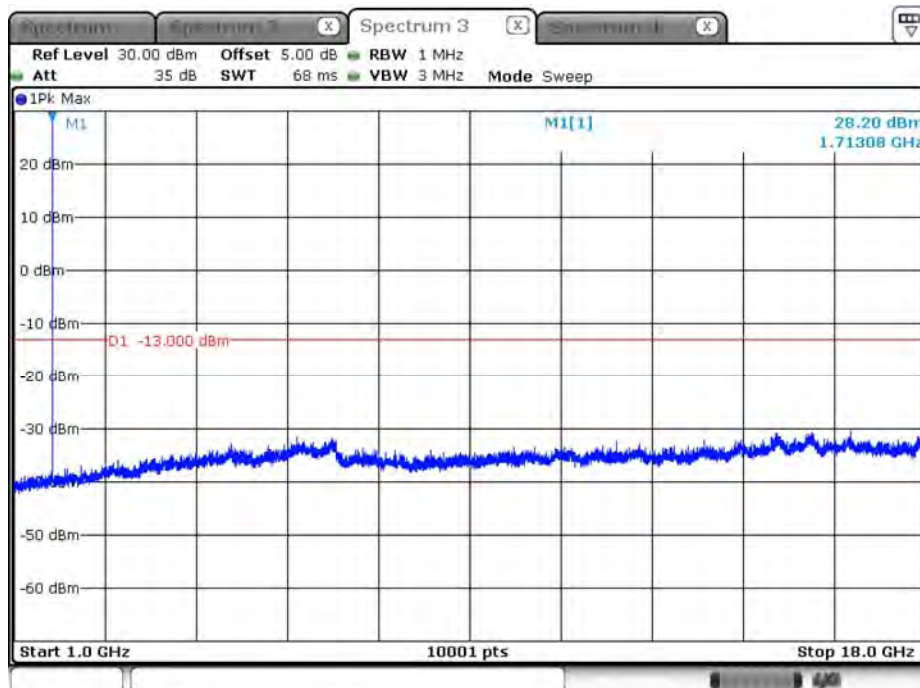
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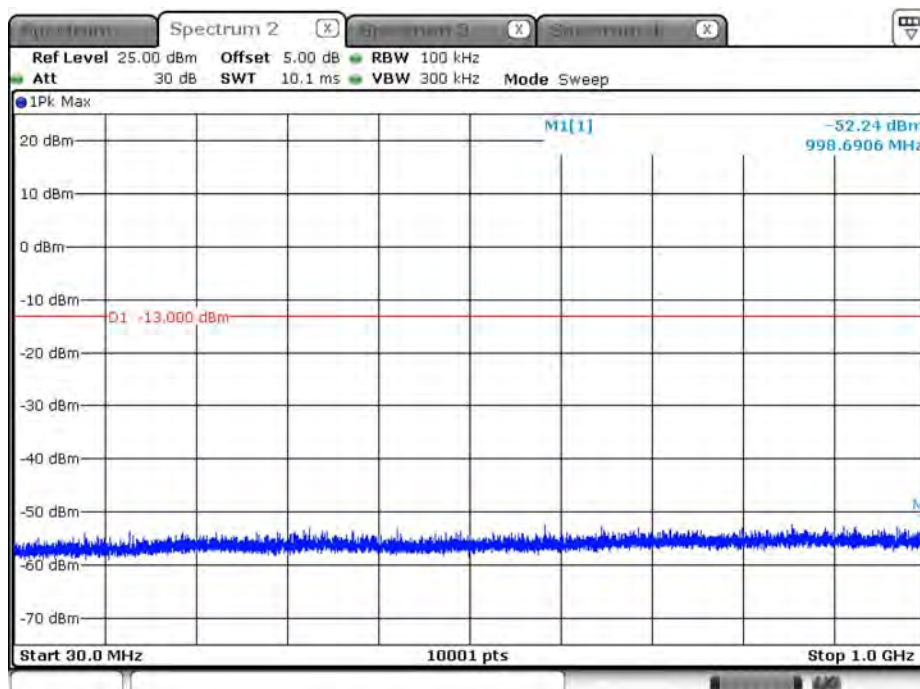
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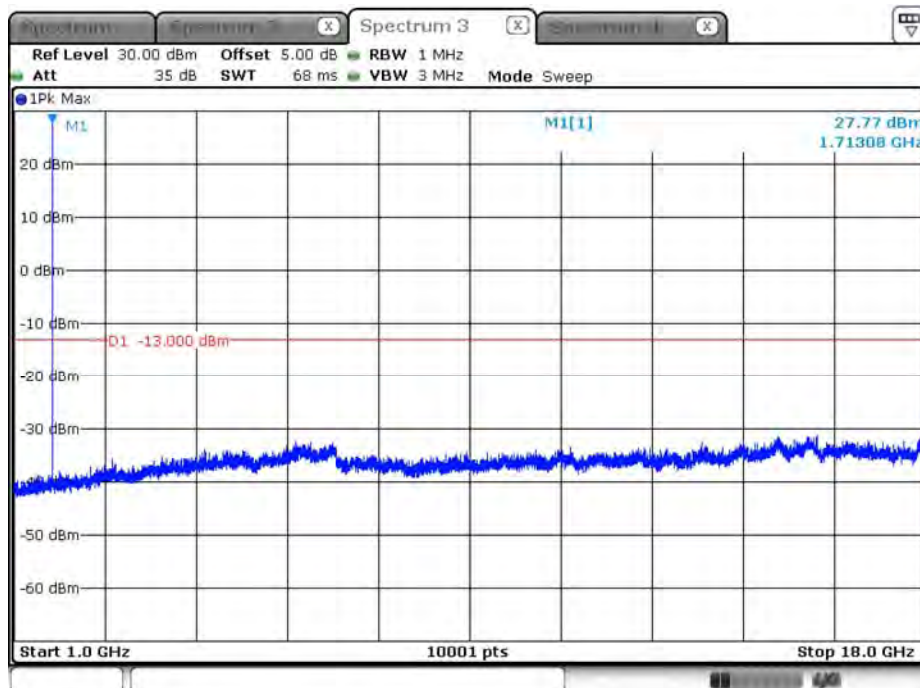
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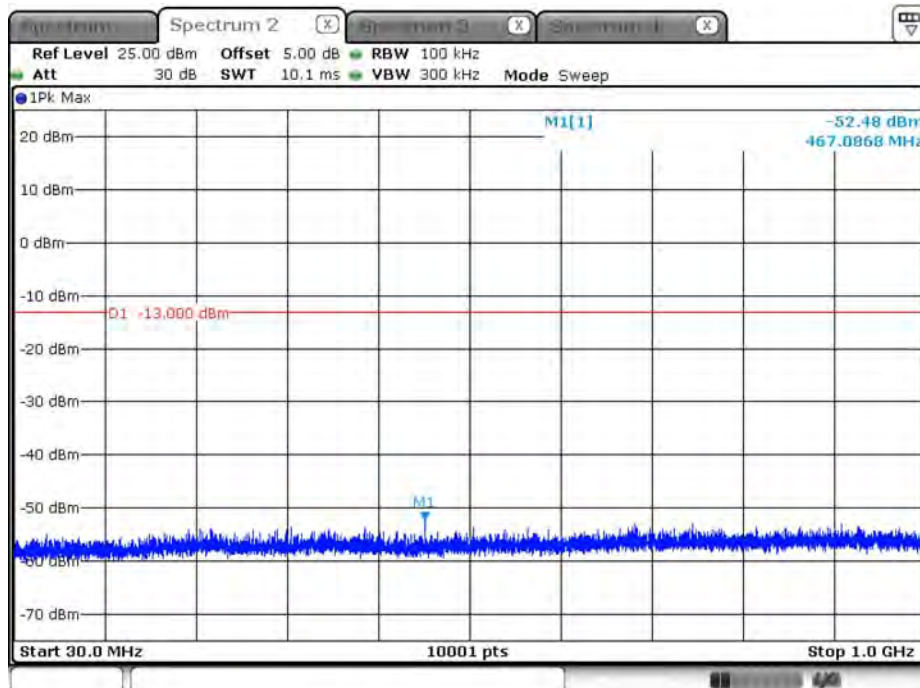
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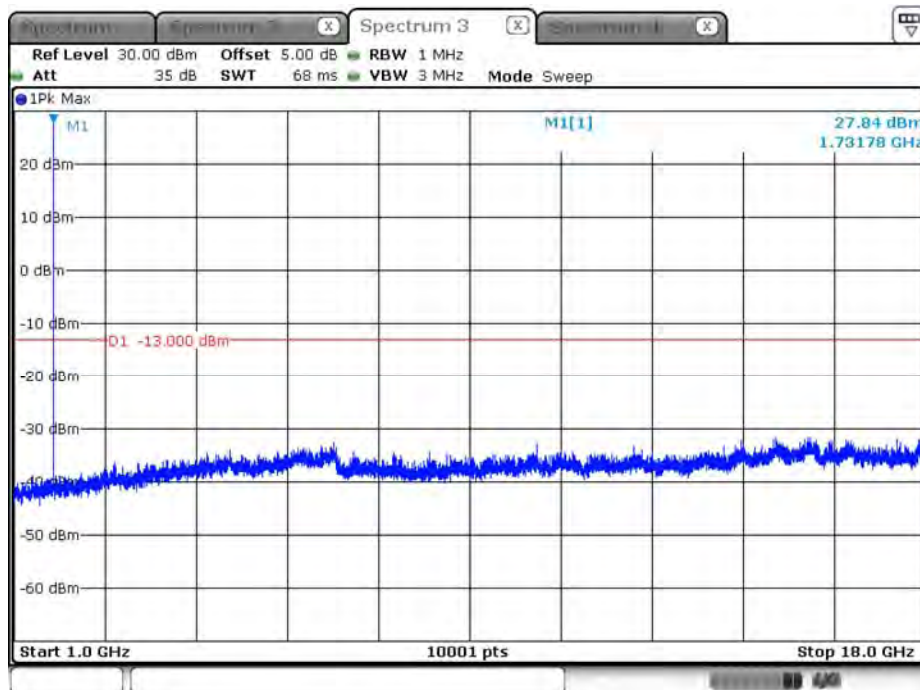
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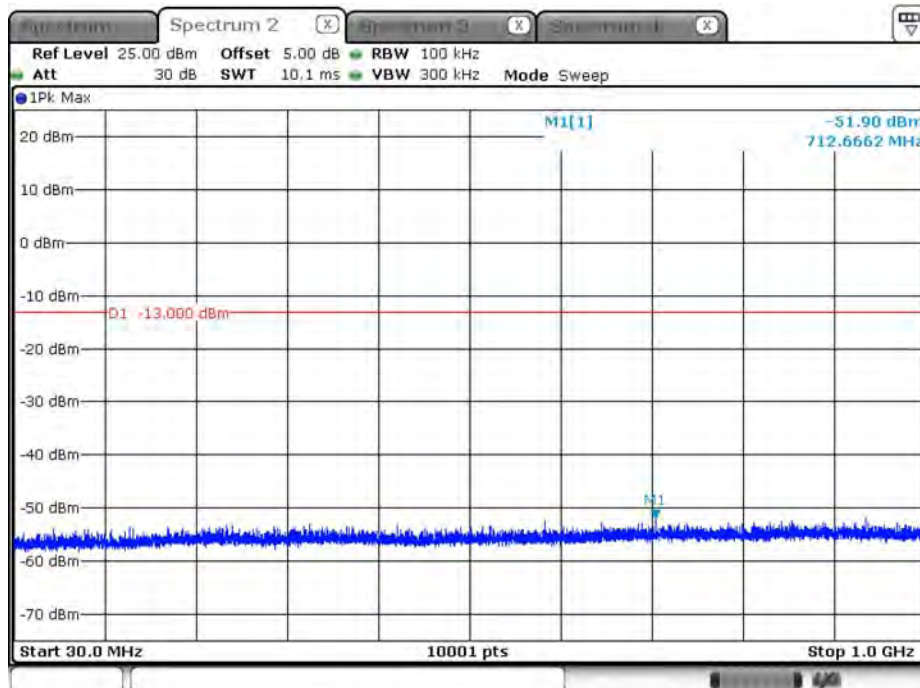
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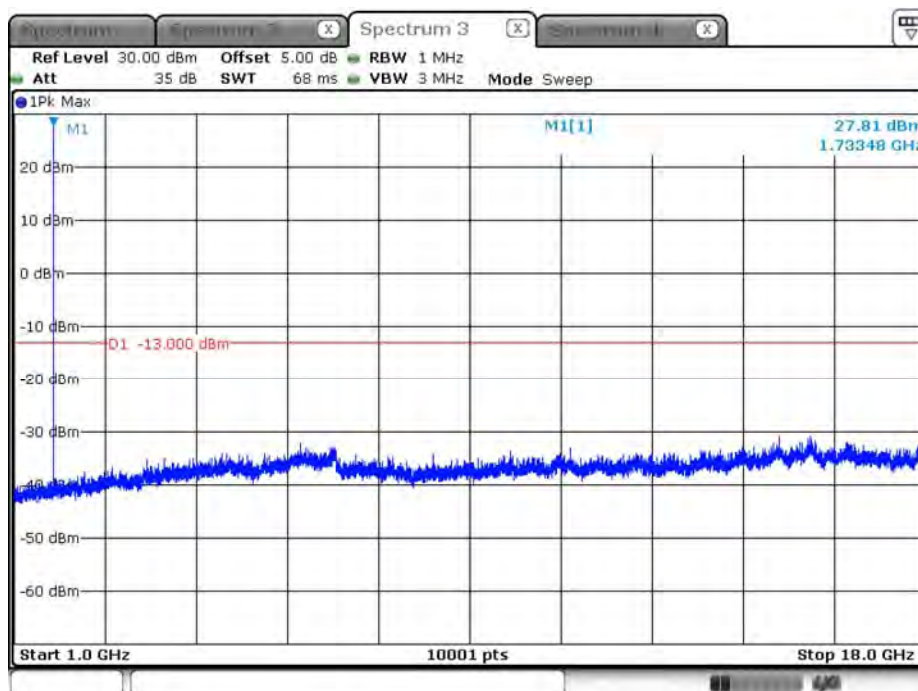
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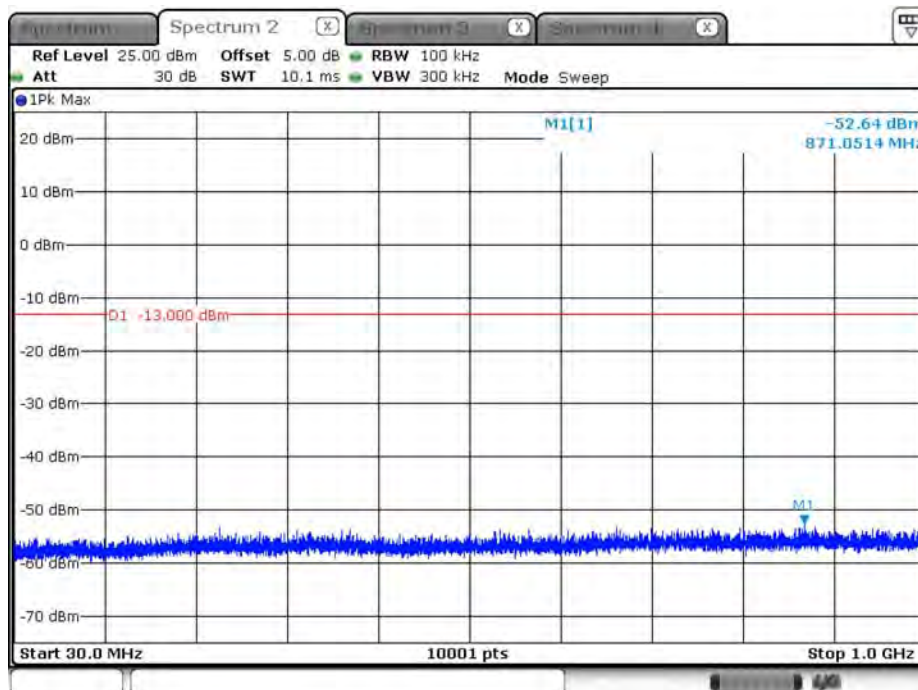
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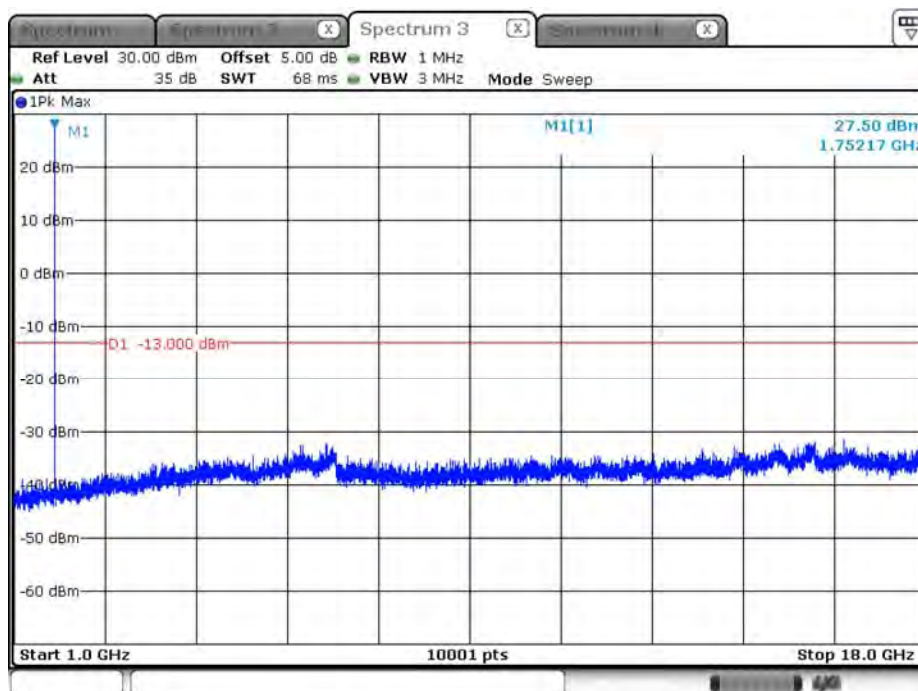
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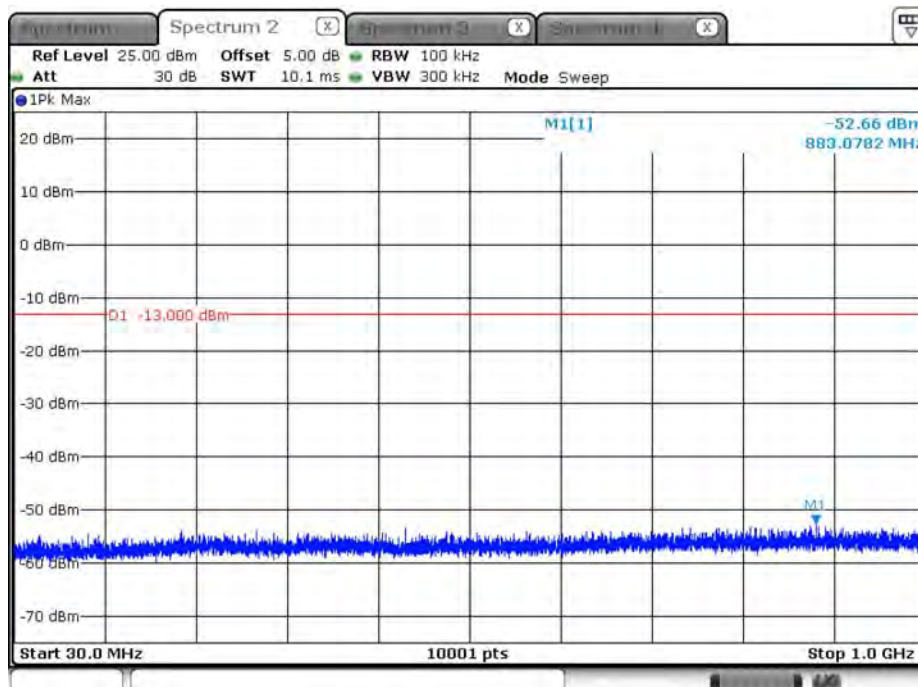
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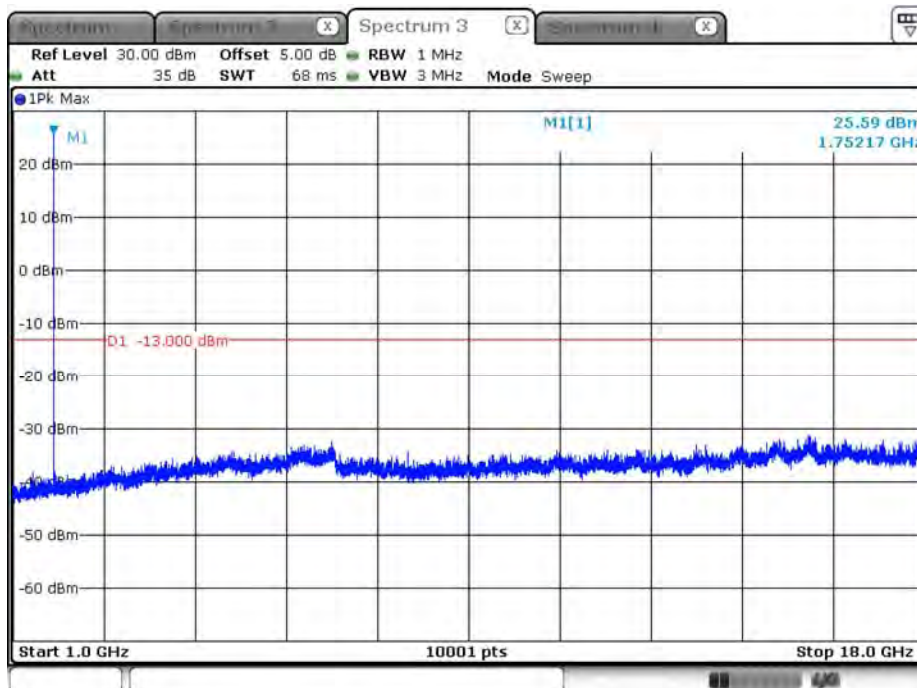
Date: 10 AUG.2018 11:58:31

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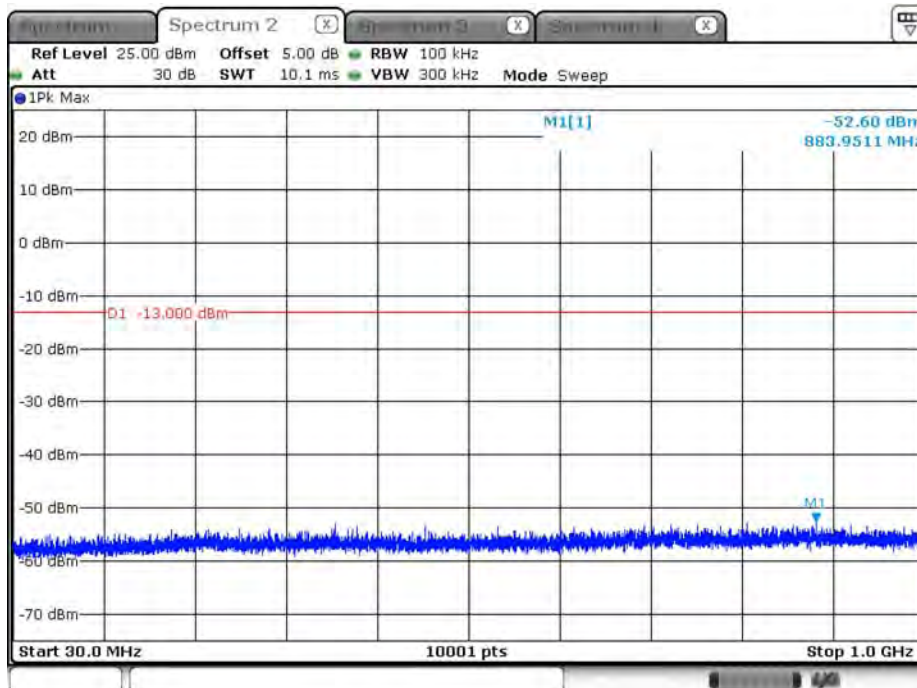
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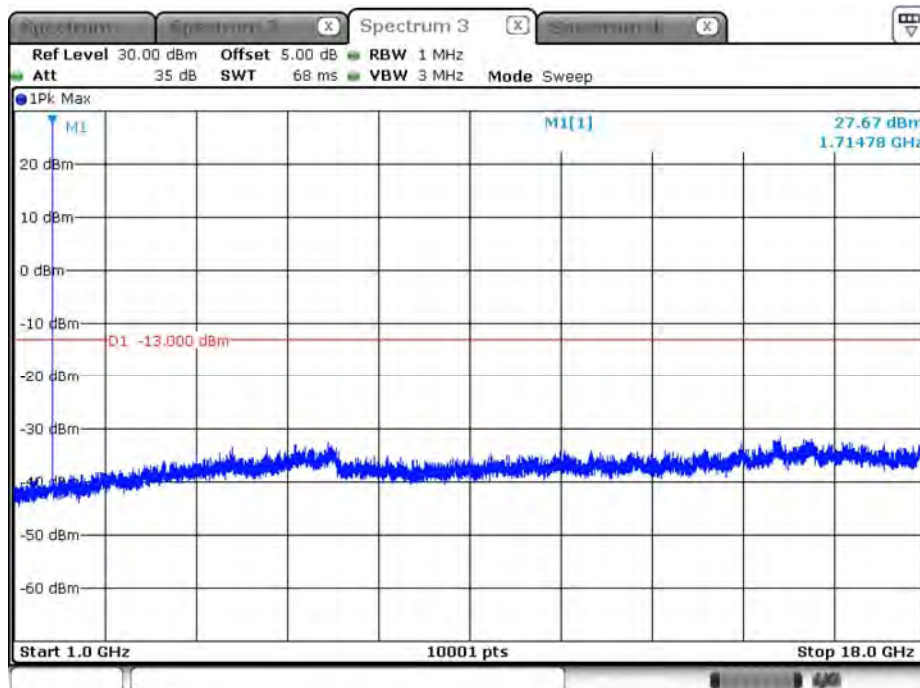
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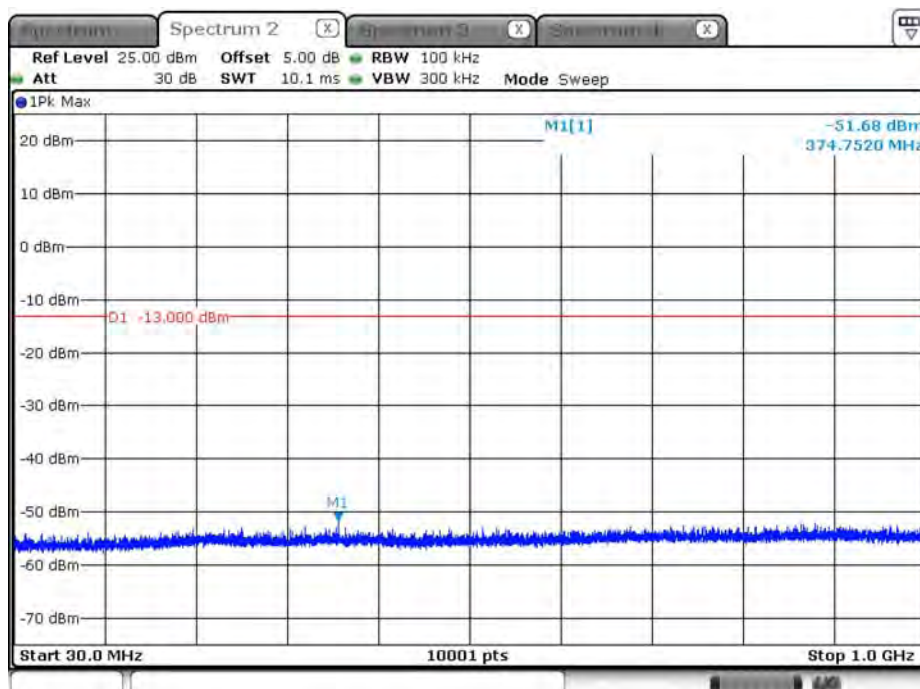
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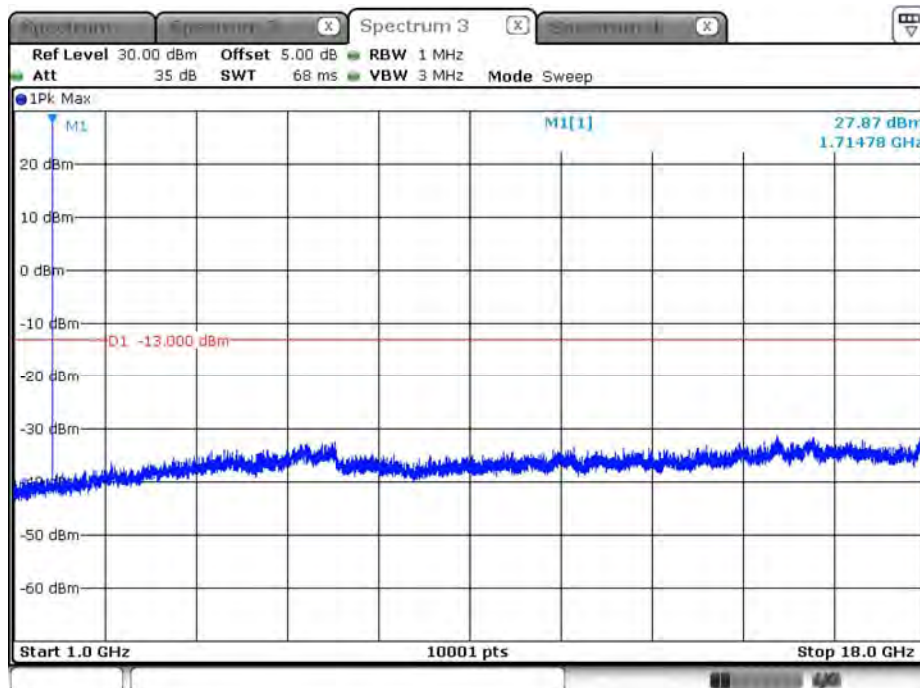
Date: 10 AUG.2018 11:59:38

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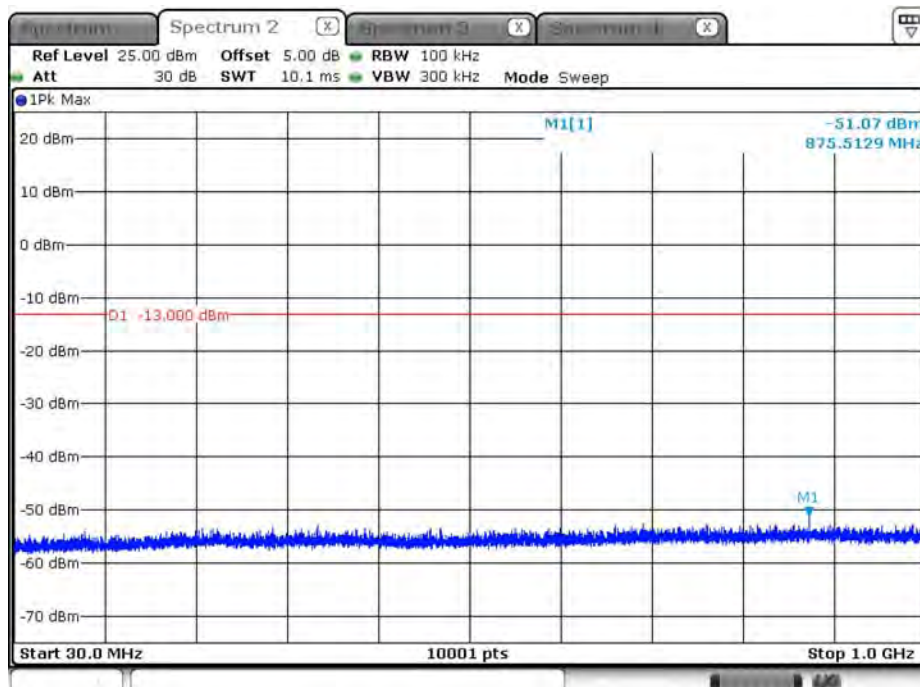
Date: 10 AUG.2018 10:33:23

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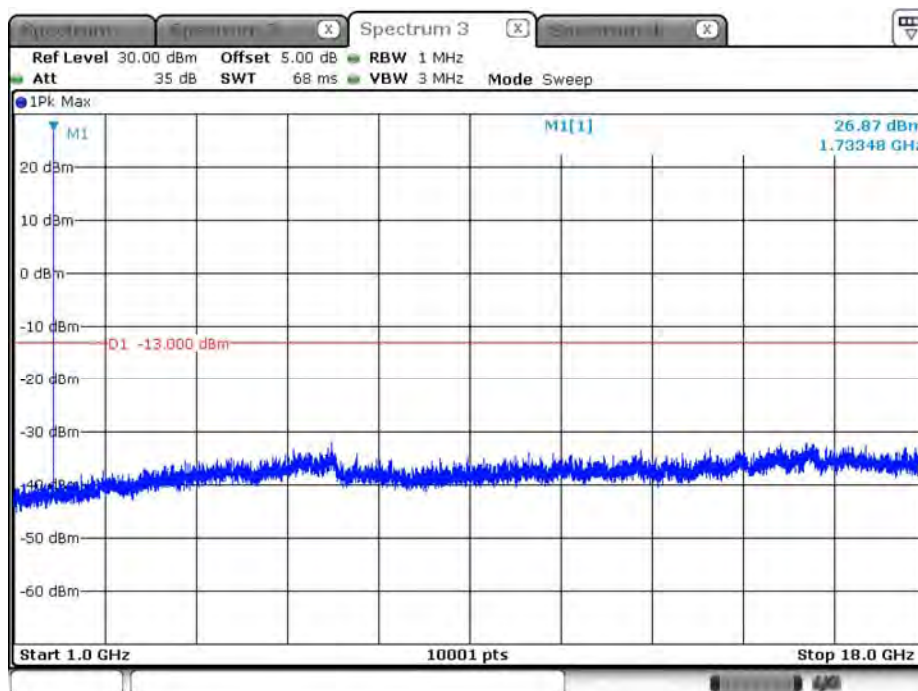
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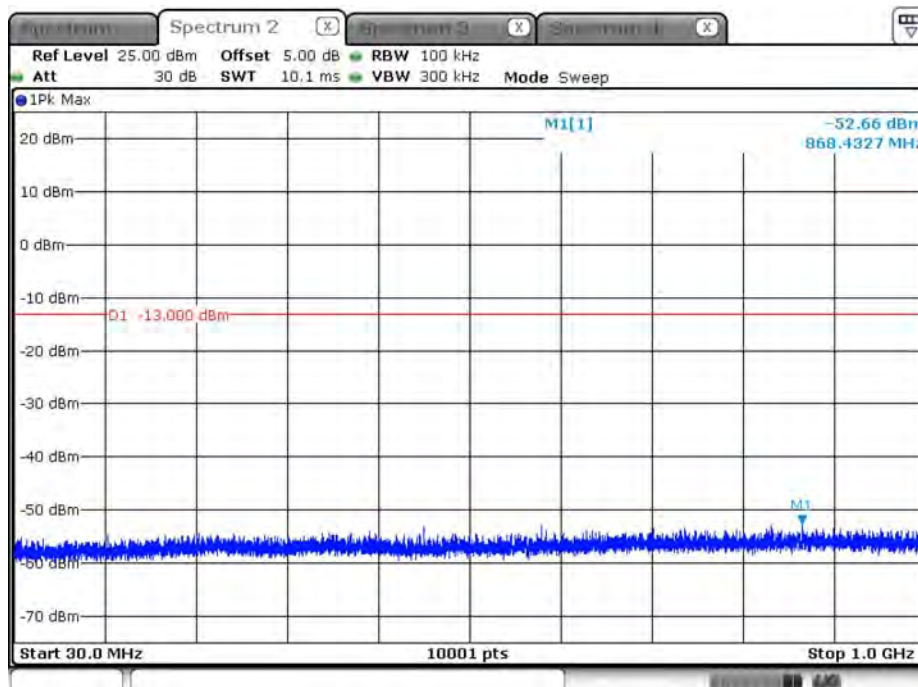
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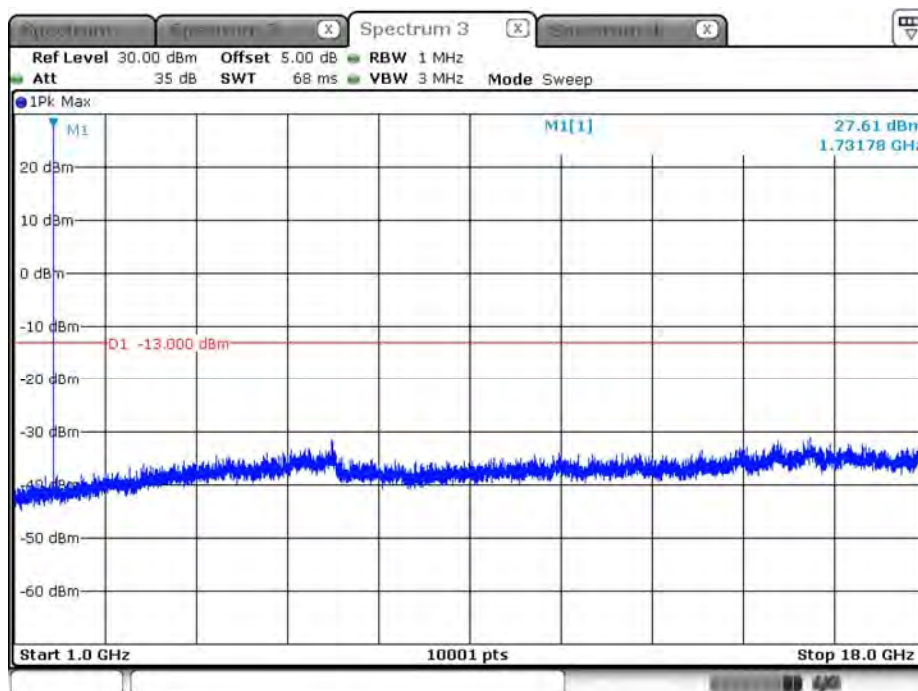
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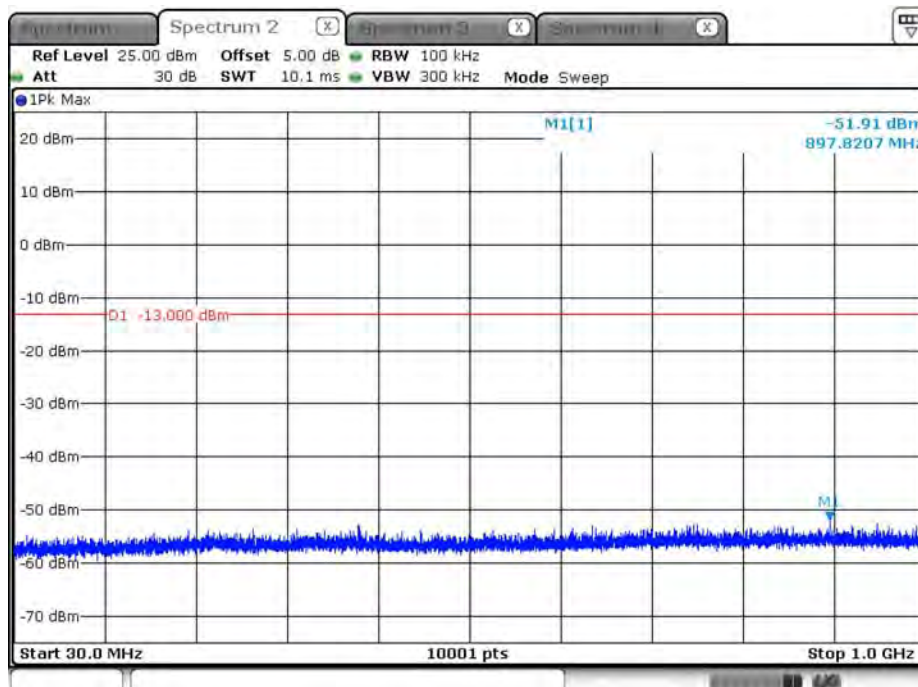
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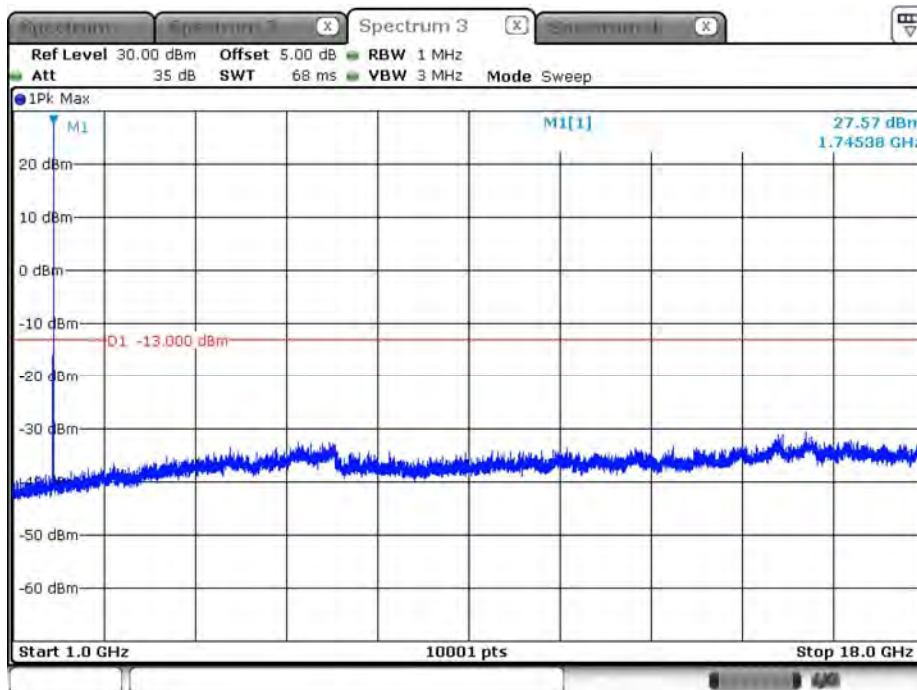
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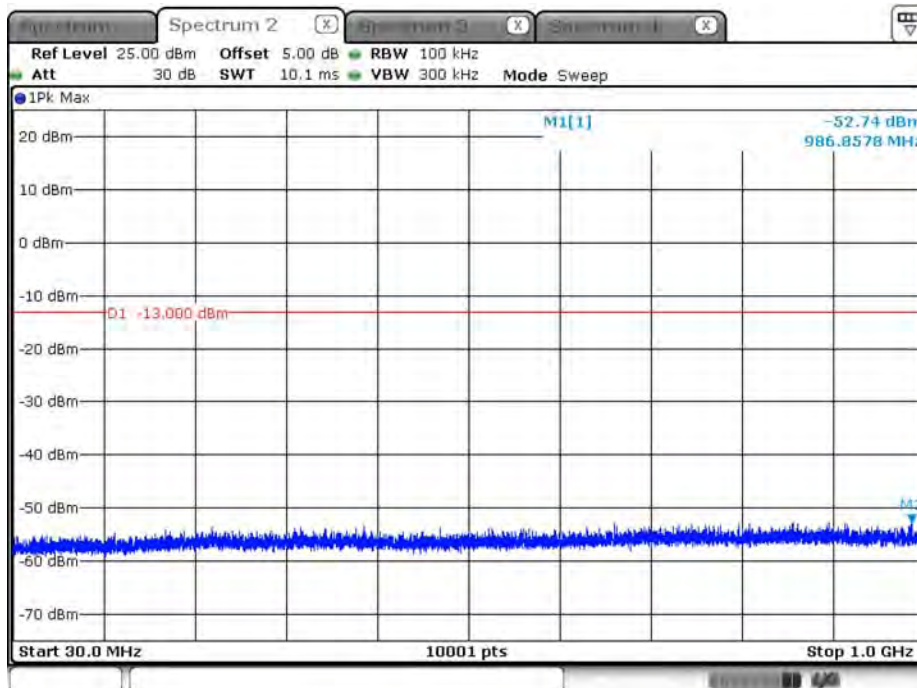
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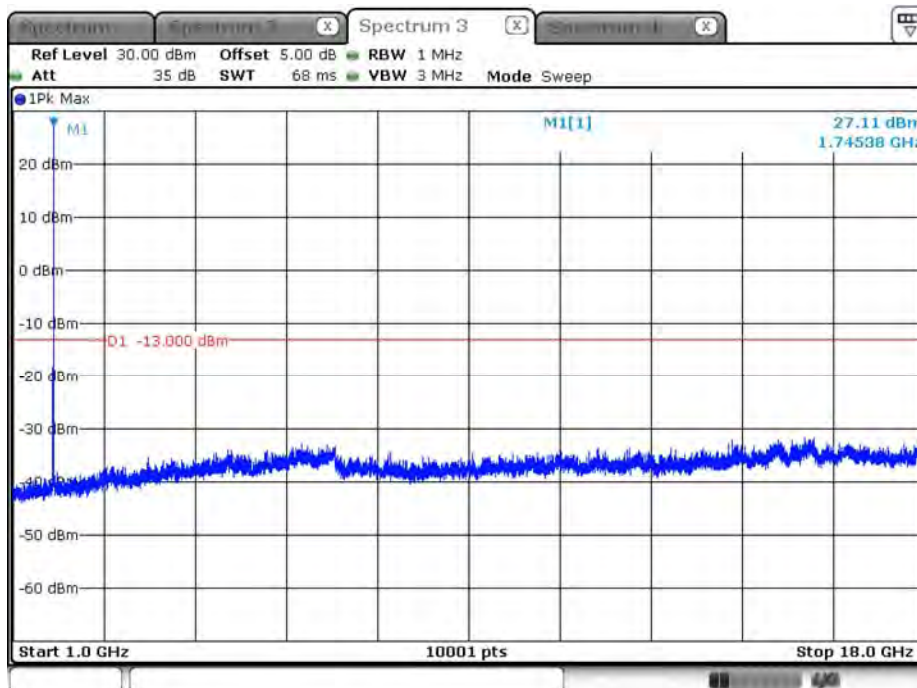
Date: 10 AUG.2018 12:03:16

CH20350_10M_1RB0_QPSK_Below 1G



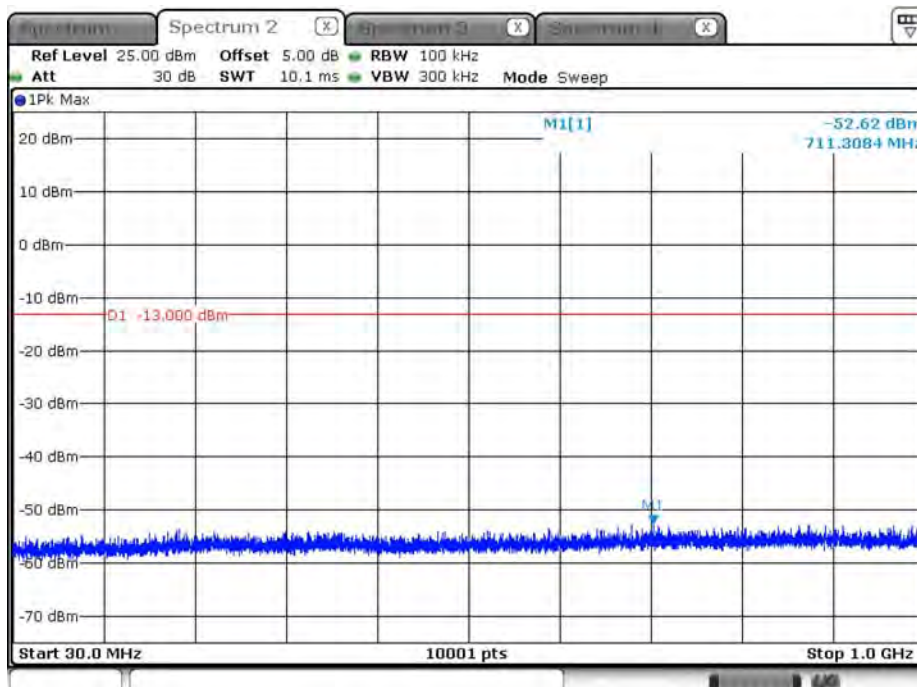
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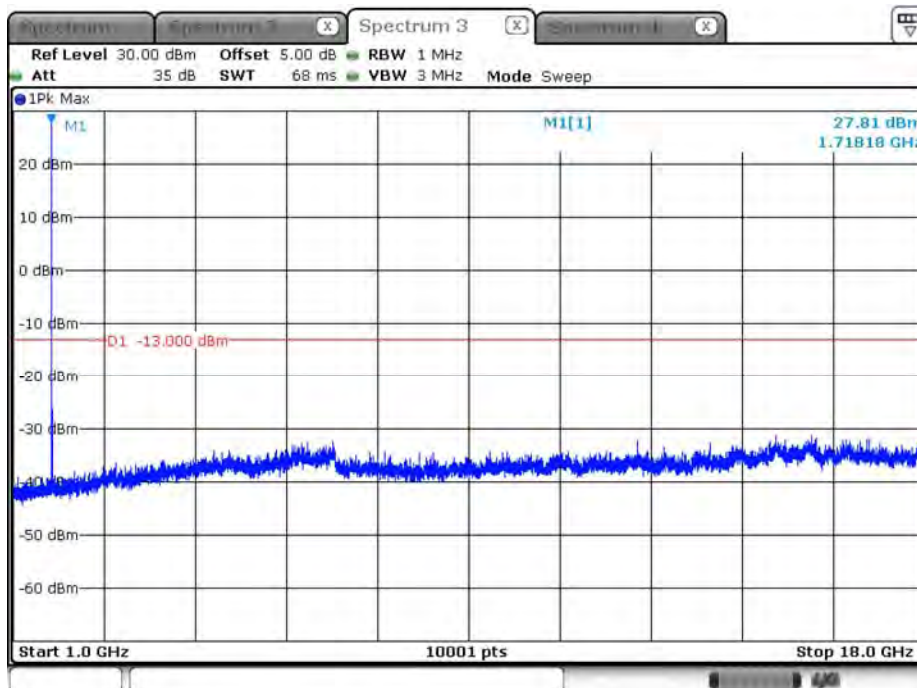
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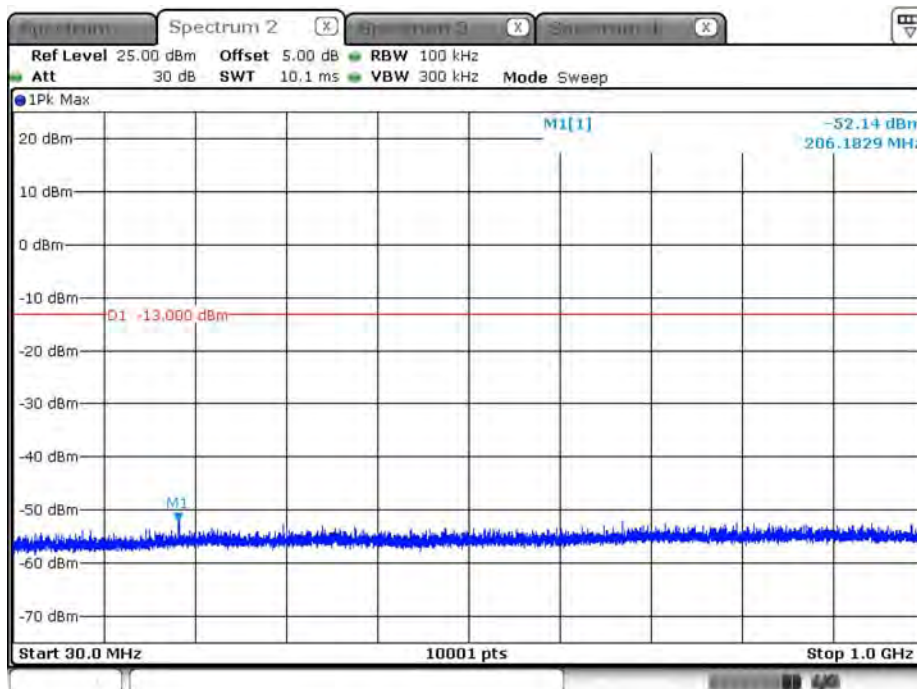
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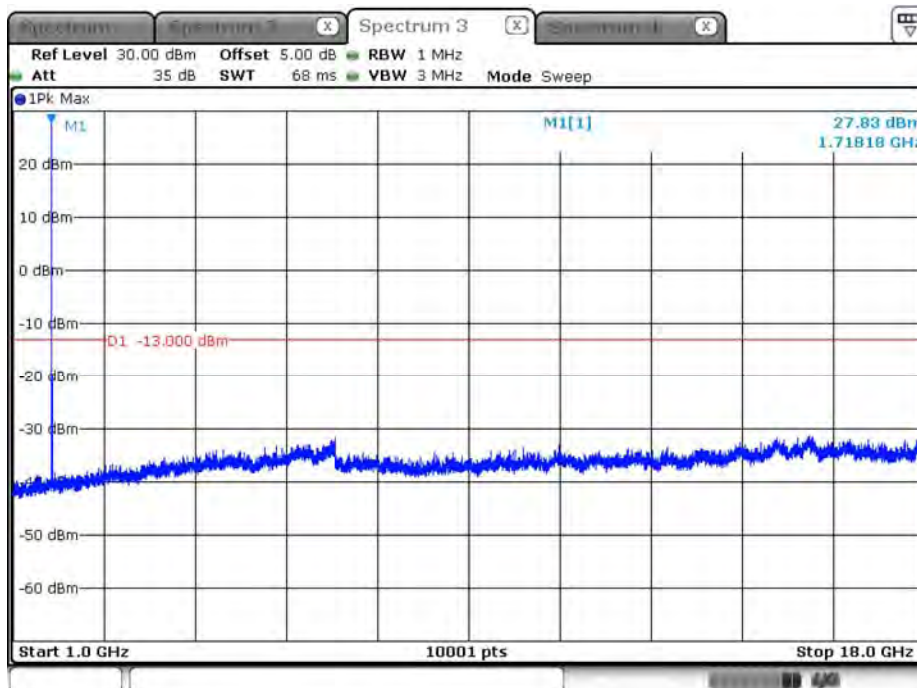
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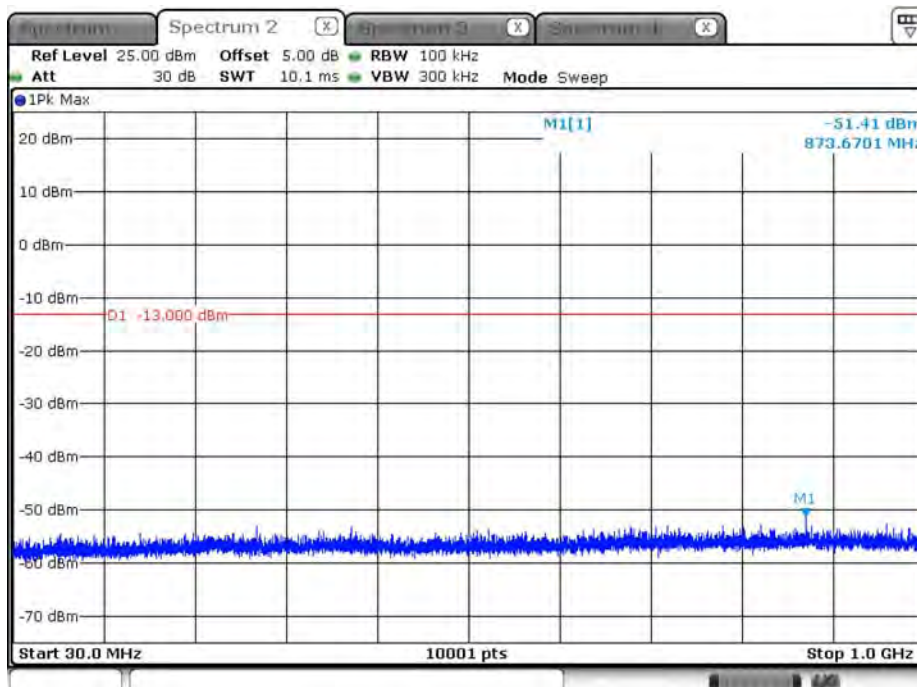
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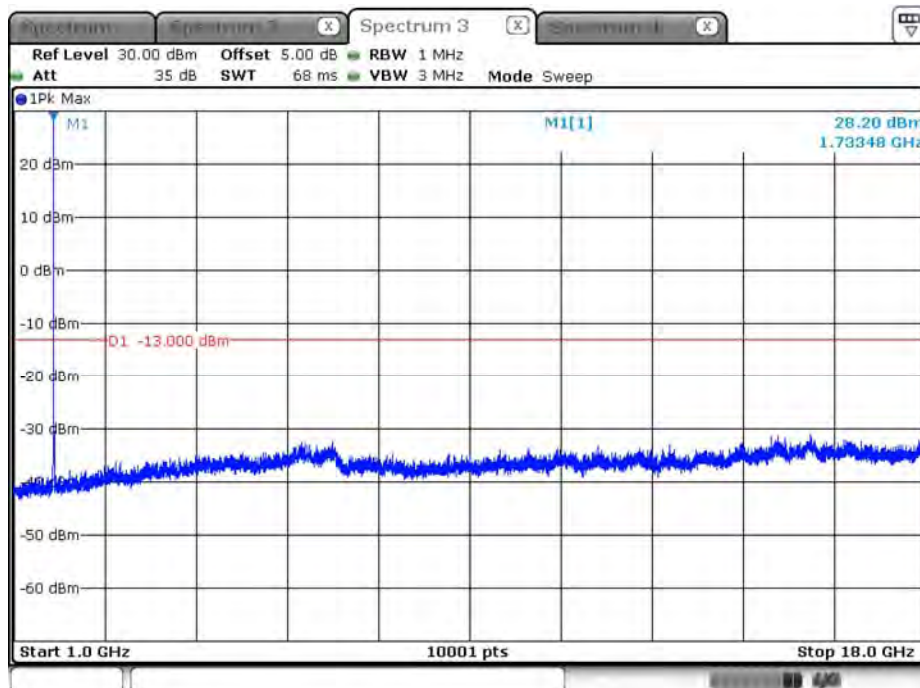
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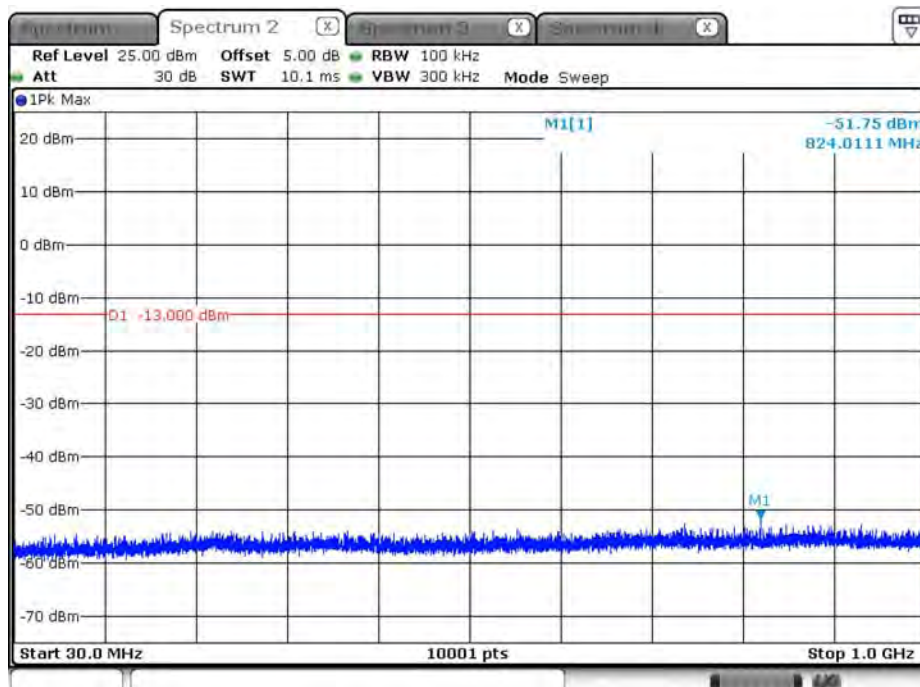
Date: 10 AUG.2018 10:44:38

CH20175_15M_1RB37_QPSK_Above 1G



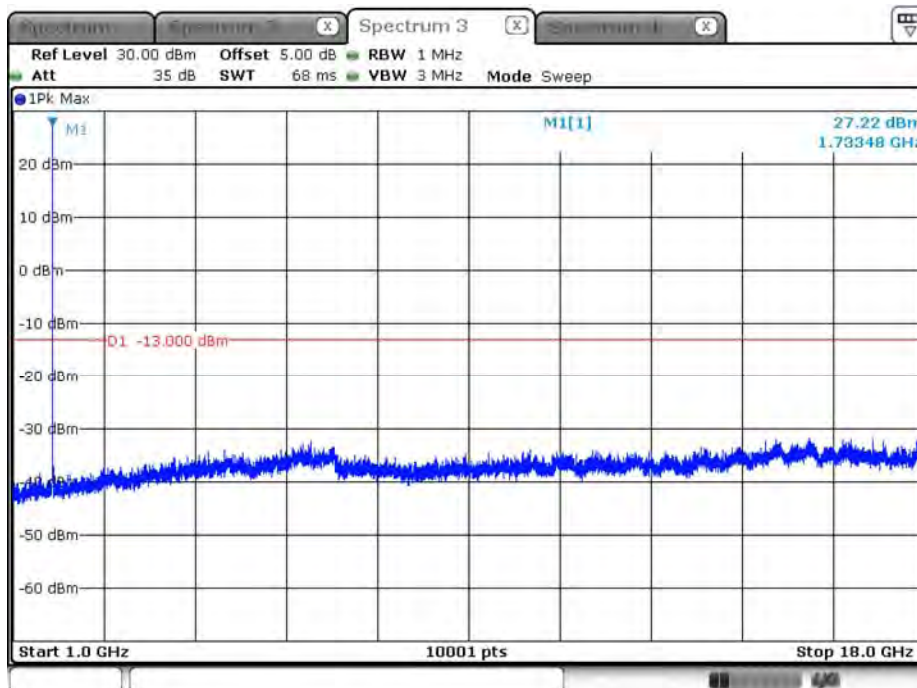
Date: 10 AUG 2018 14:01:11

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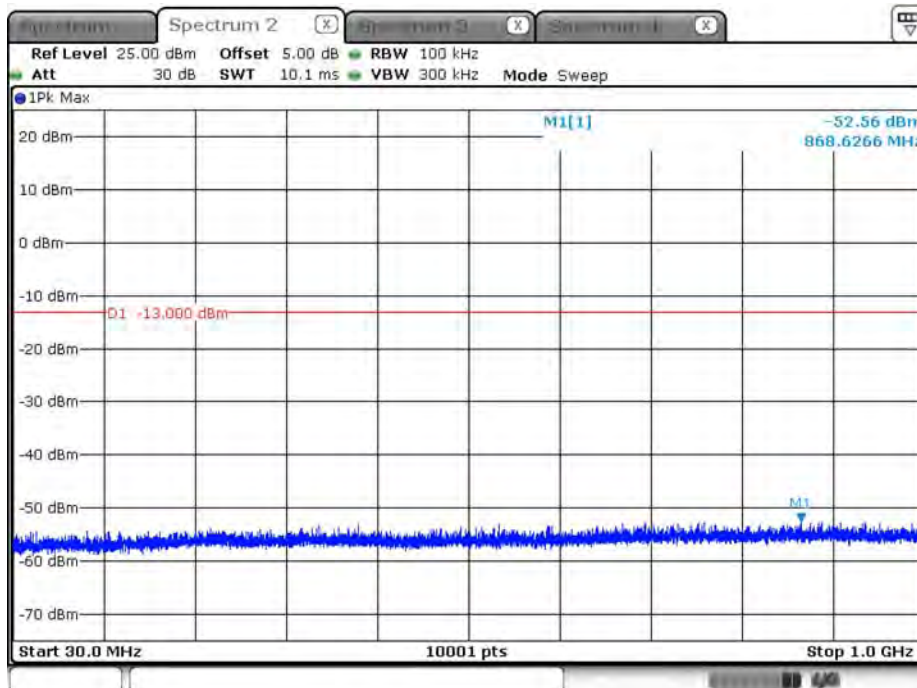
Date: 10 AUG 2018 10:42:02

CH20175_15M_1RB37_16-QAM_Above1G



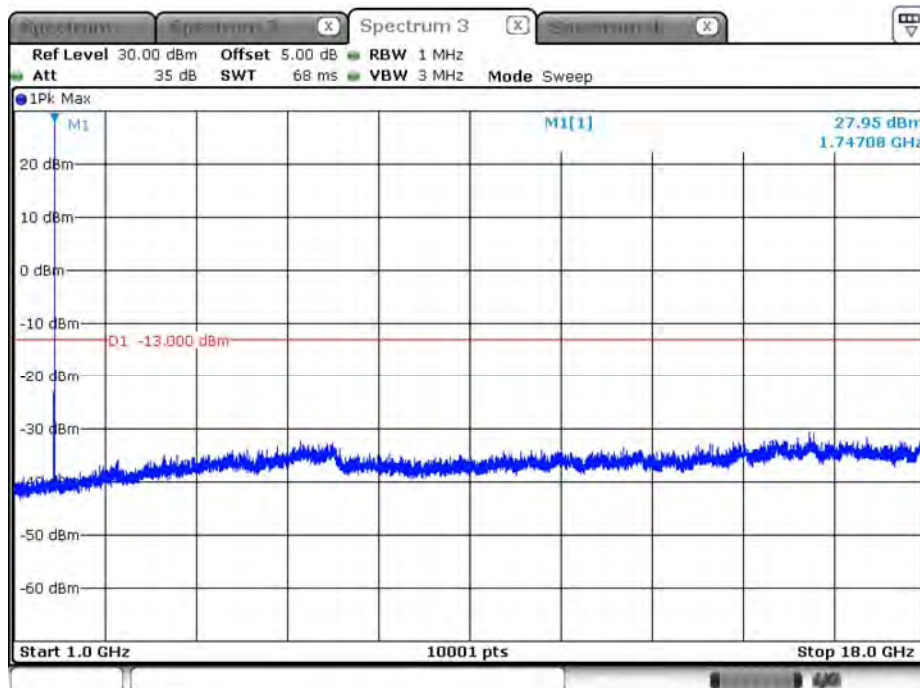
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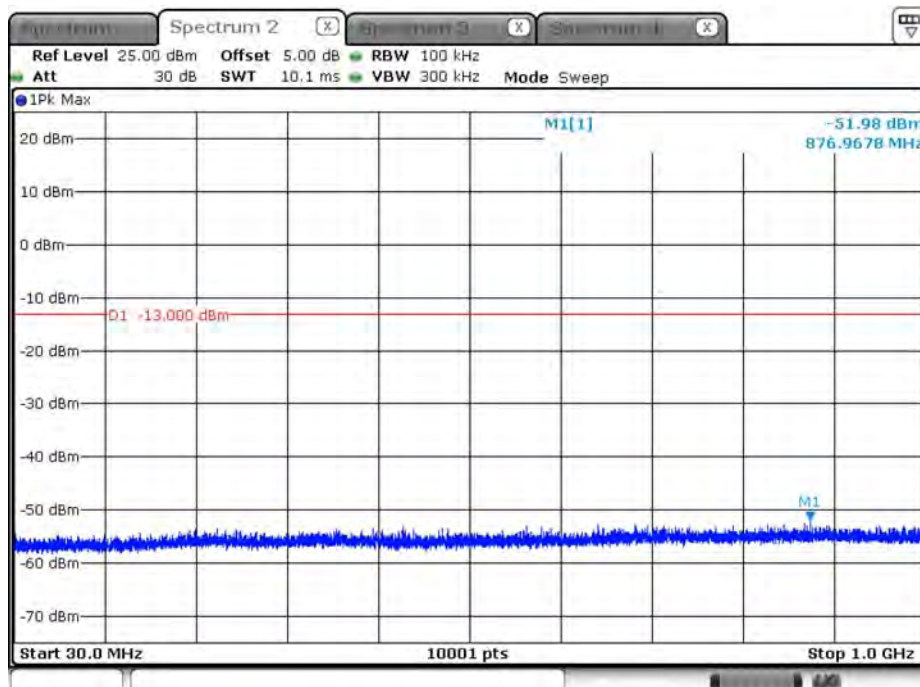
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CH20325_15M_1RB37_QPSK_Above 1G



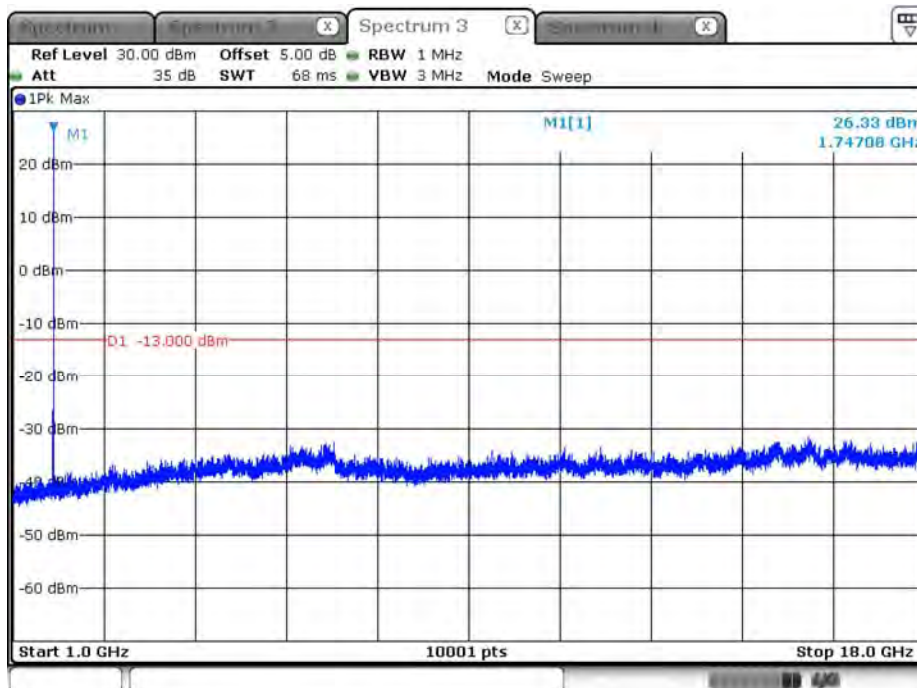
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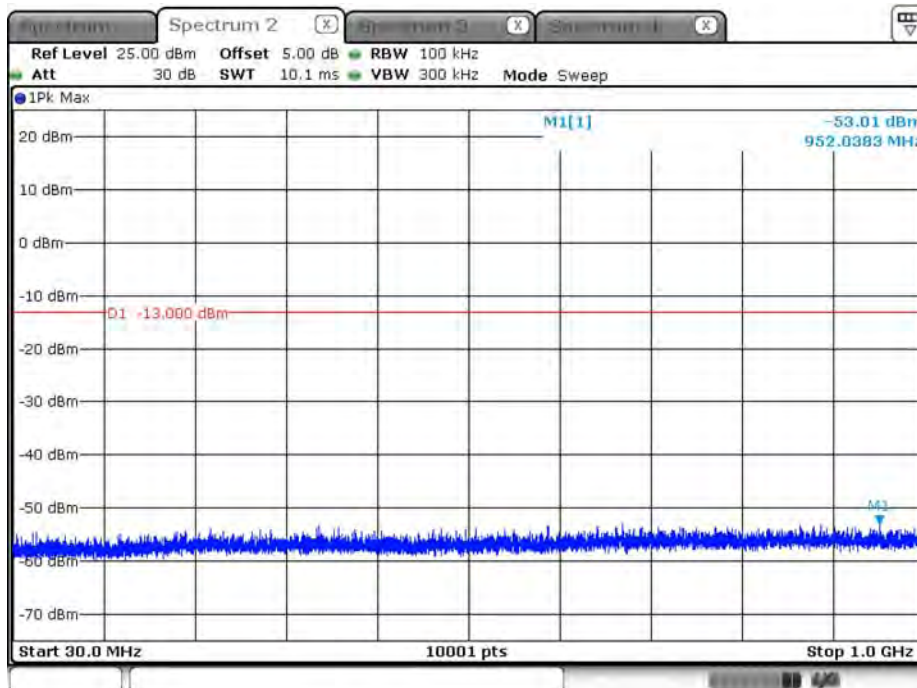
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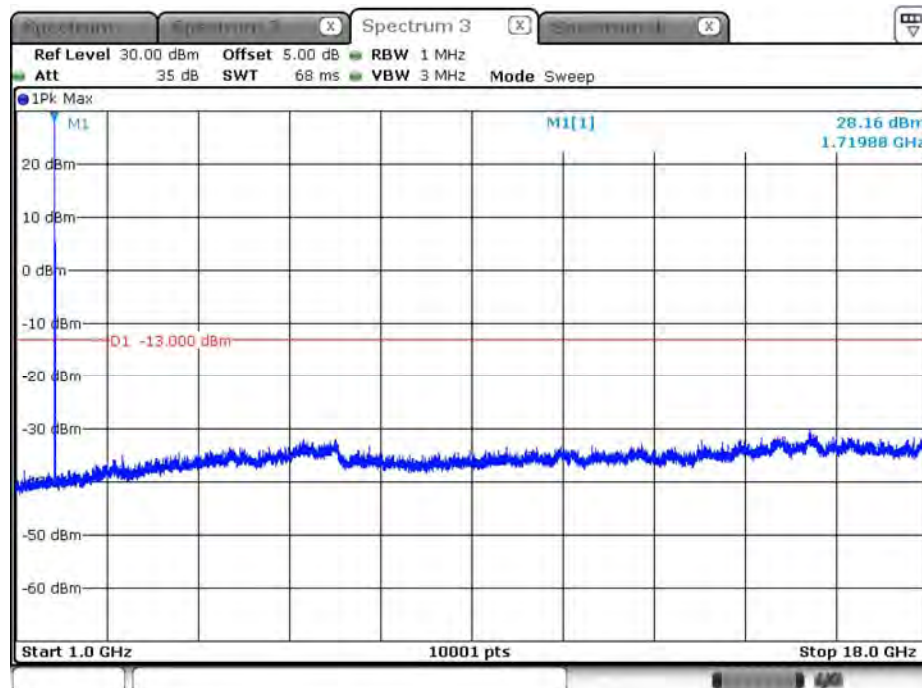
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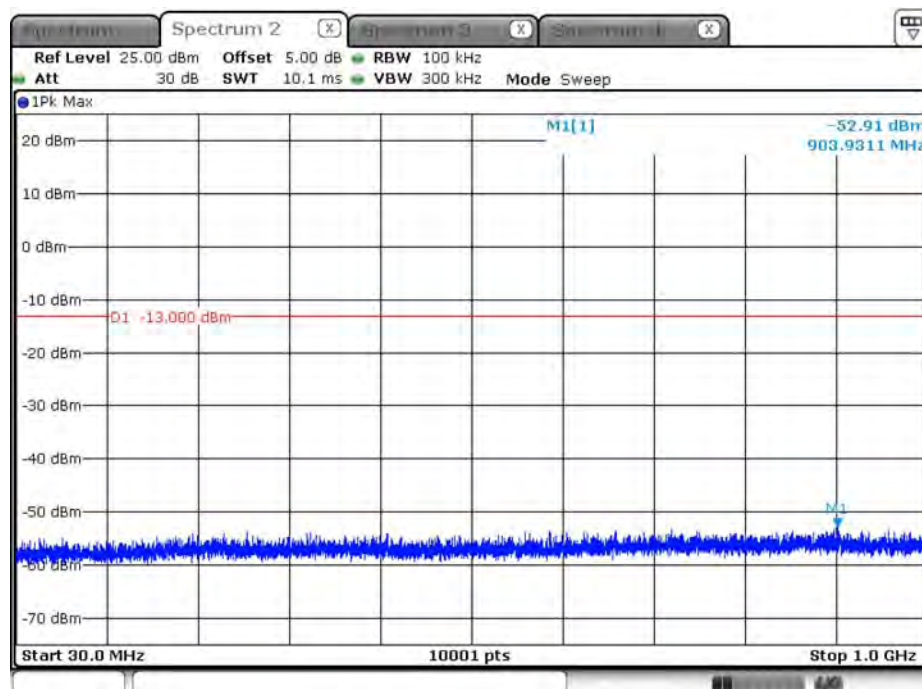
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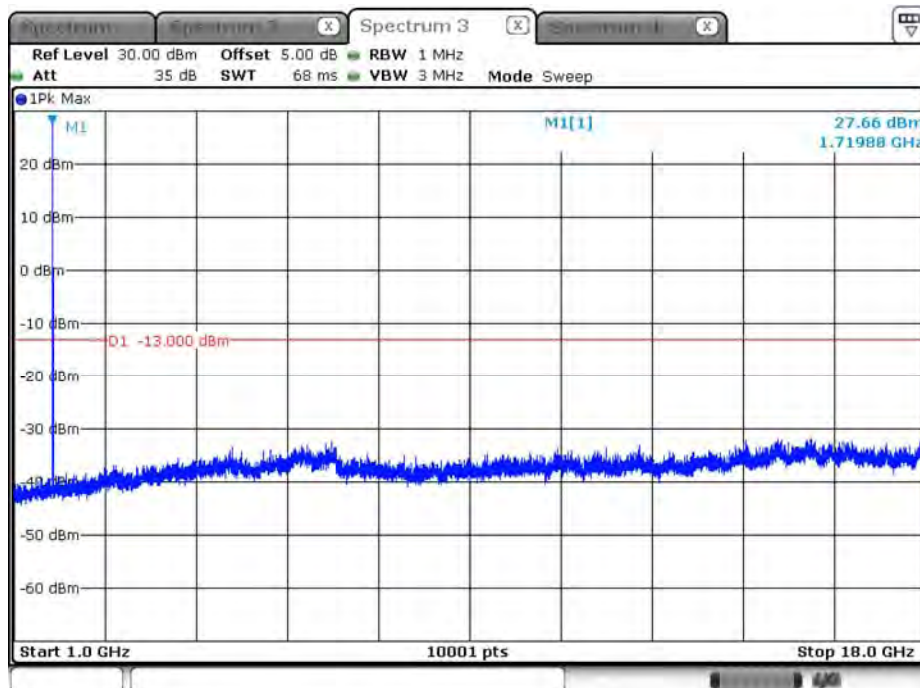
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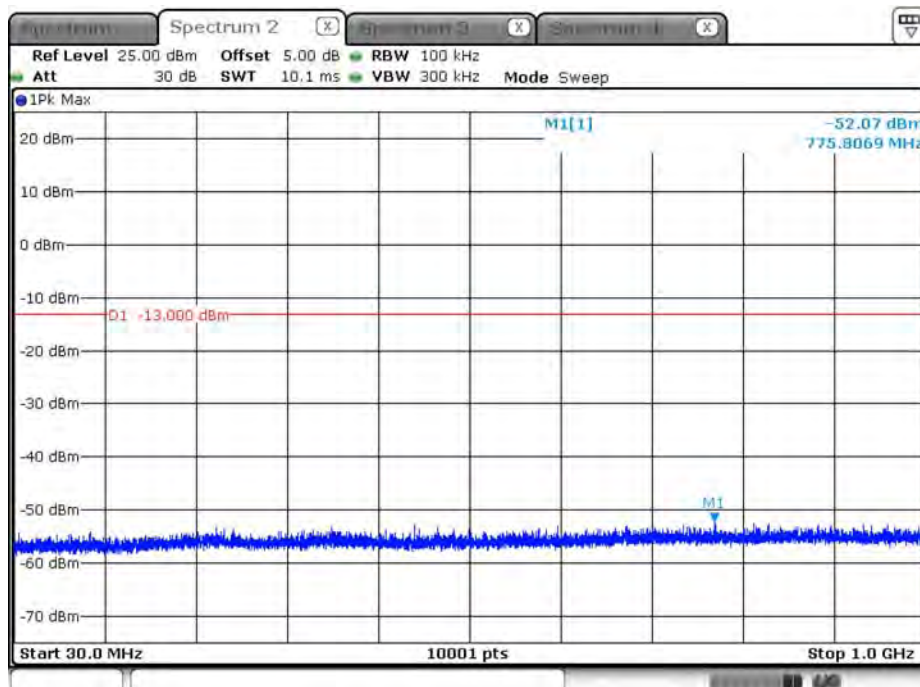
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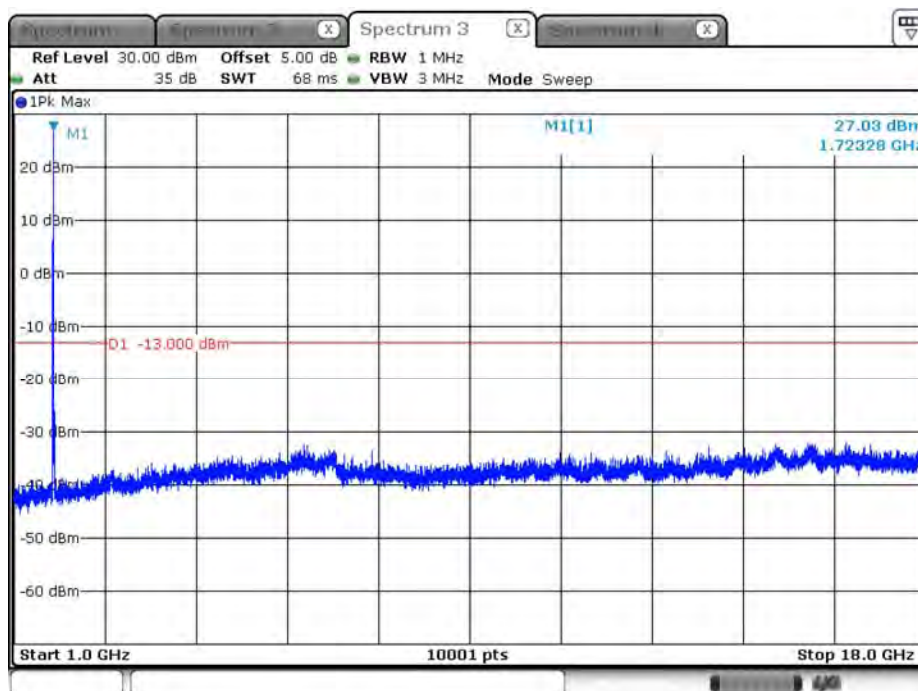
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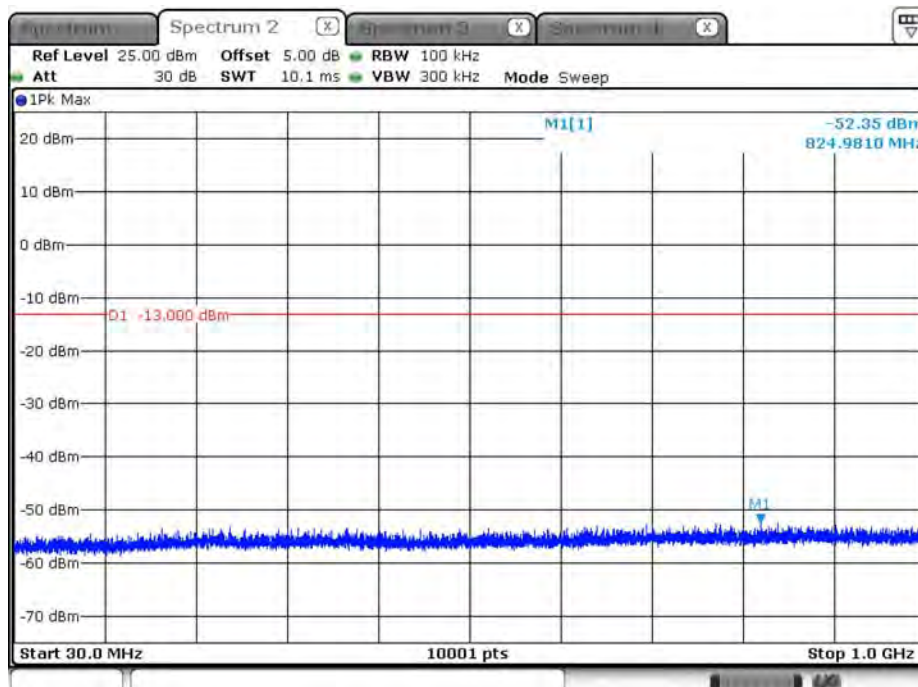
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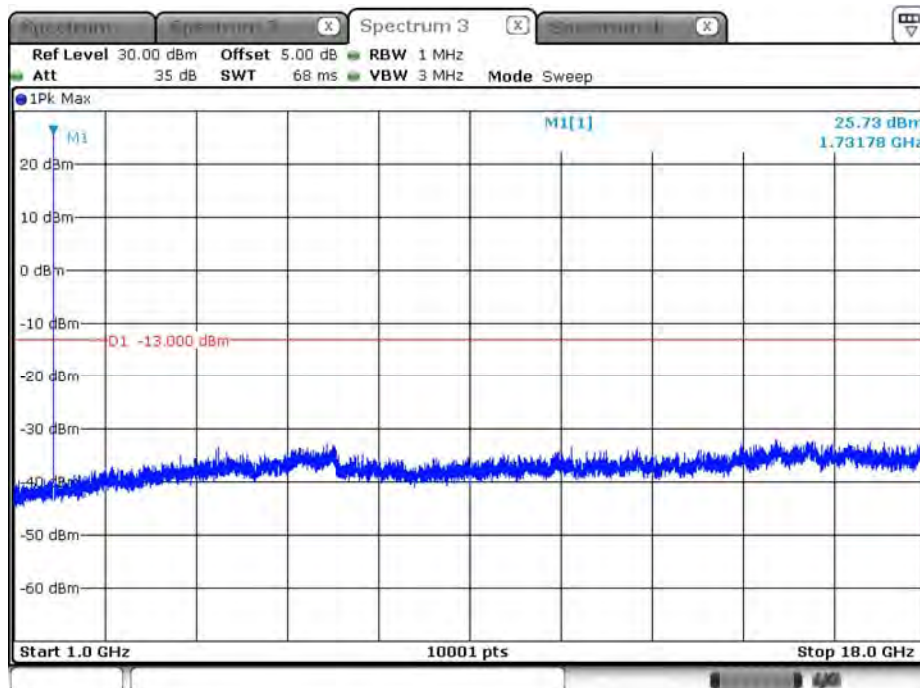
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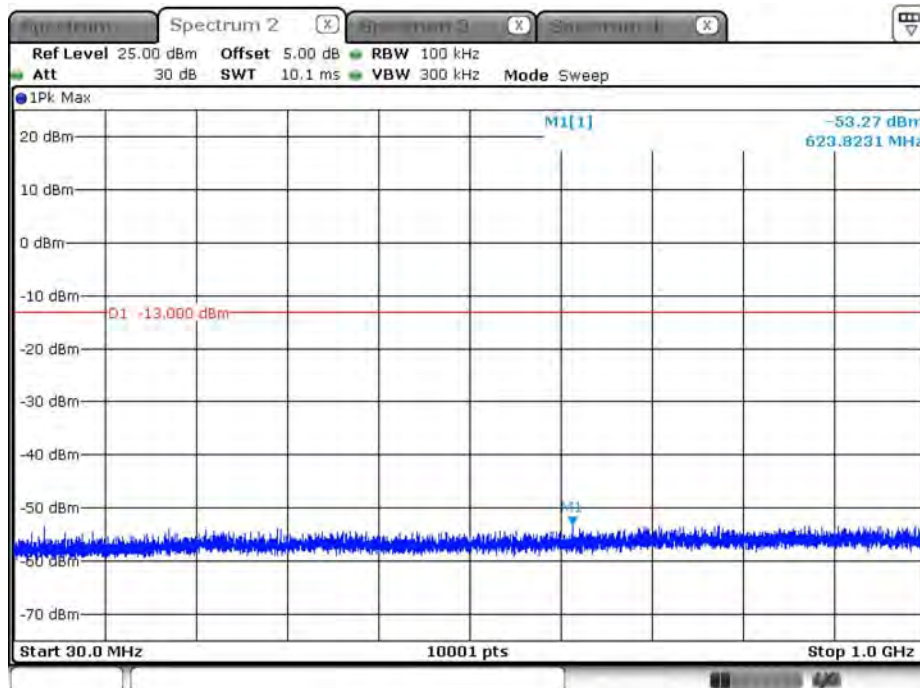
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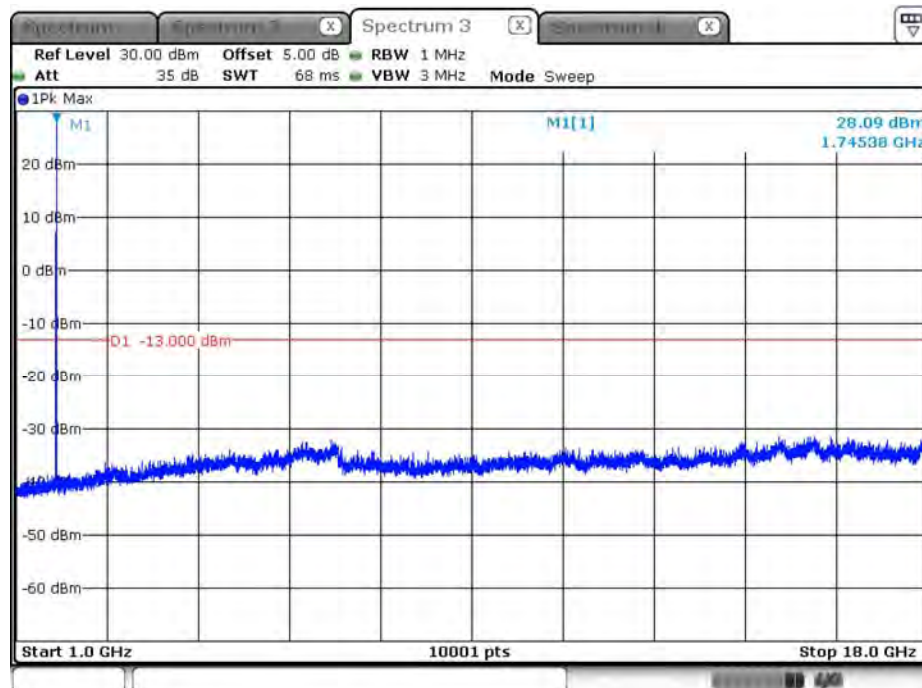
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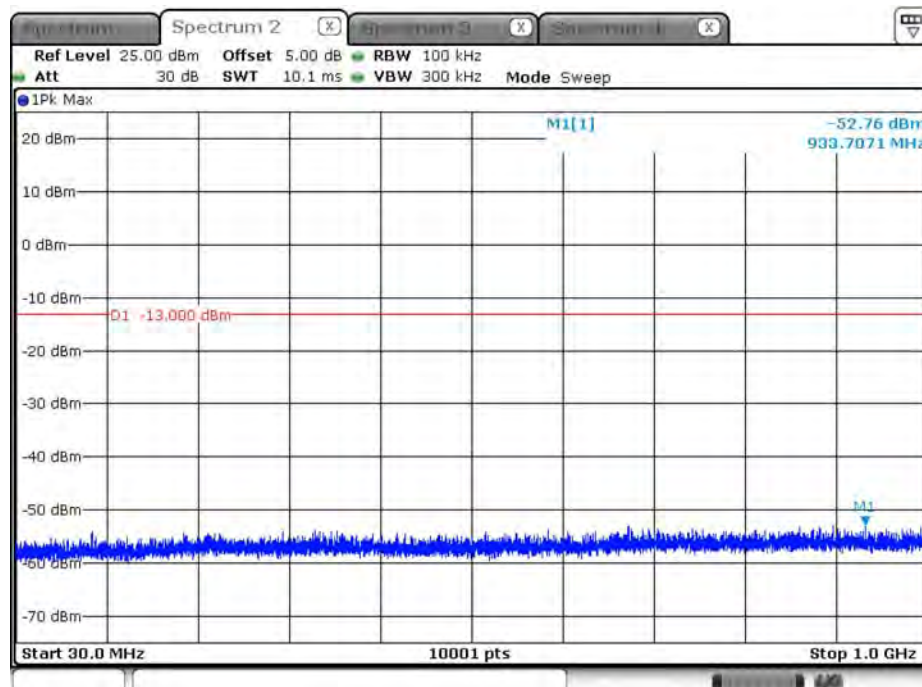
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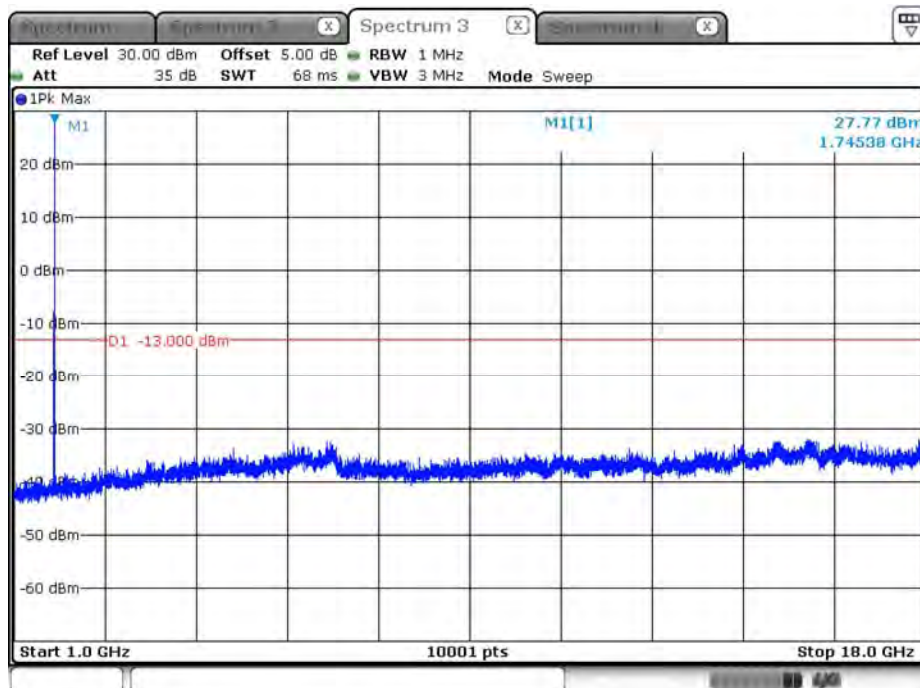
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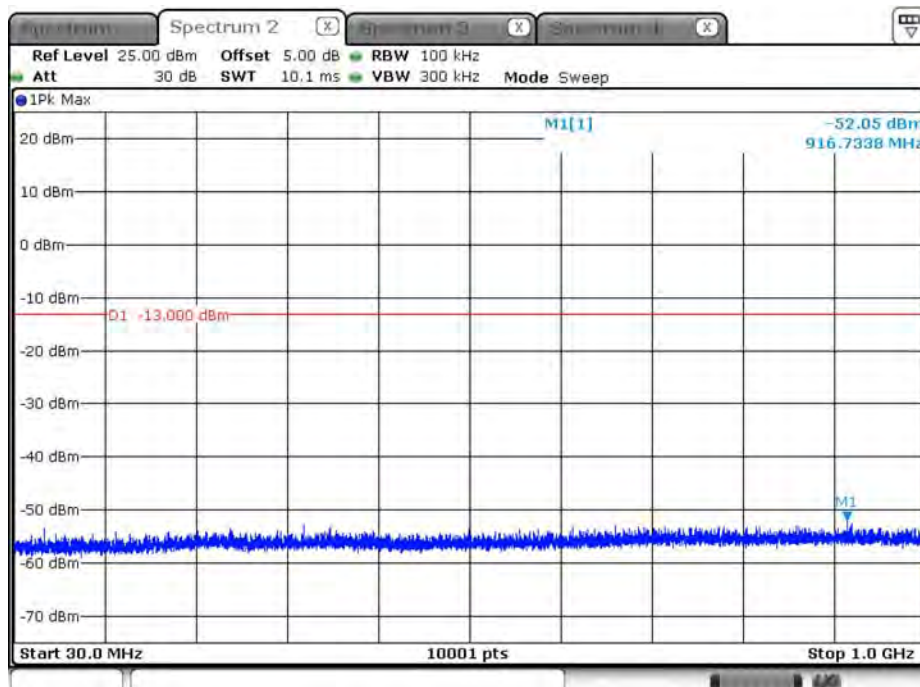
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CH20300_20M_1RB49_16-QAM_Above 1G



Date: 10 AUG.2018 14:22:02

CH20300_20M_1RB49_16-QAM_Below 1G



Date: 10 AUG.2018 10:51:03