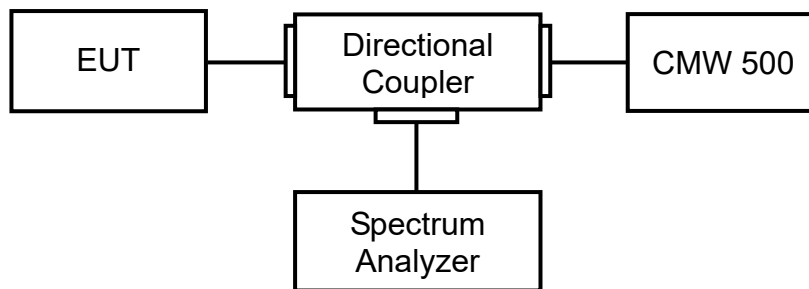


7. Spurious Emissions at Antenna Terminals

7.1. Test Setup



7.2. Test Procedure

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- EUT Communicate with CMW500, then select a channel for testing.
- Add a correction factor to the display of spectrum, and then test.
- 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.

7.3. Test Method

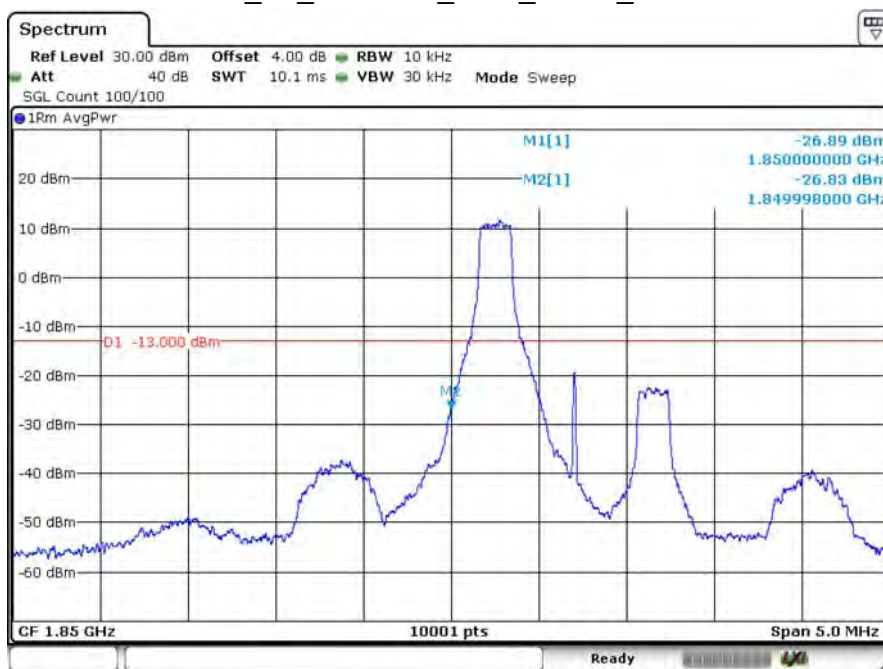
KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 6.1

ANSI C63.26: 2015 Sub-clause 5.7

7.4. Test Result

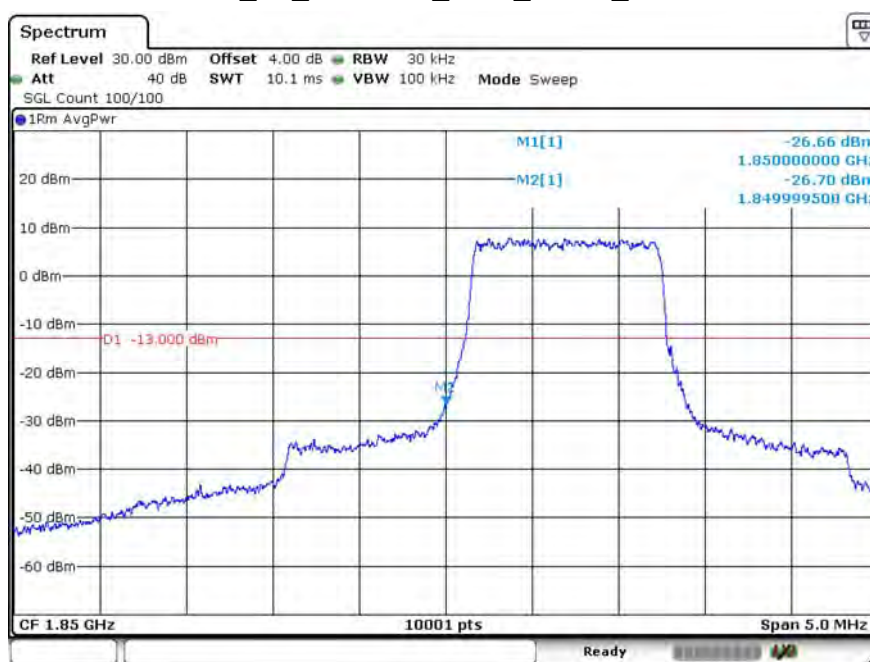
Product	Module		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2019/12/14	Test Site	SR12-H
Test Temperature	22°C	Test Humidity	54%

LTE_B2_CH18607_1.4M_QPSK_1RB0



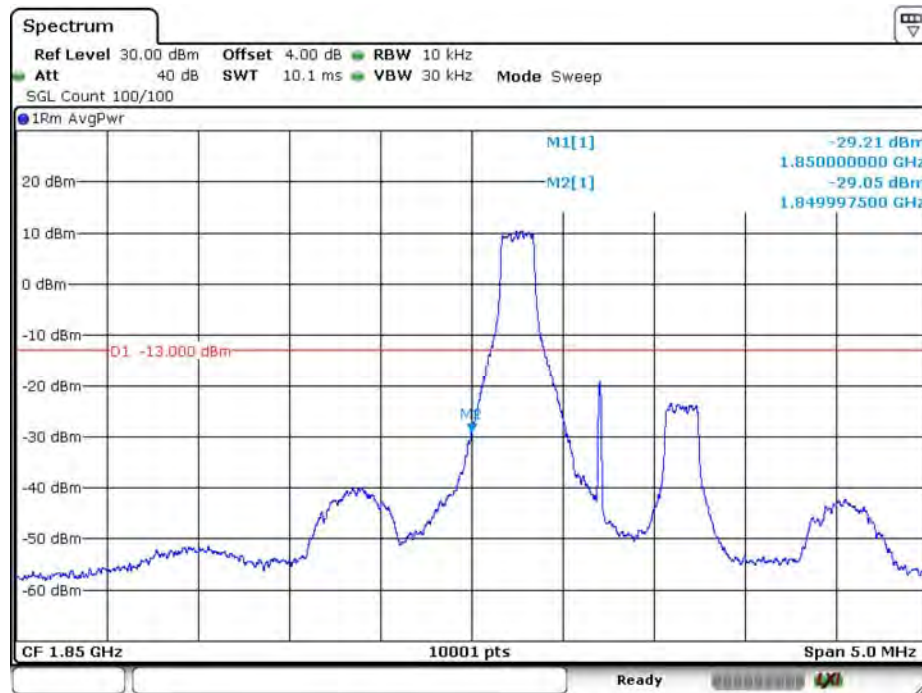
Date: 14 DEC 2019 16:10:33

LTE_B2_CH18607_1.4M_QPSK_6RB0



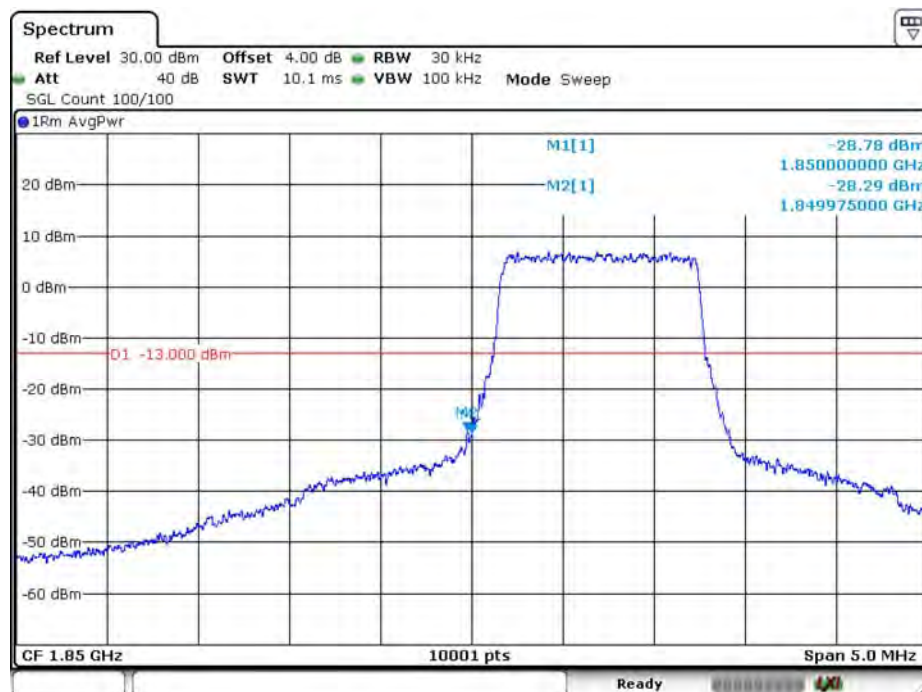
Date: 14 DEC 2019 16:11:57

LTE_B2_CH18607_1.4M_16-QAM_1RB0



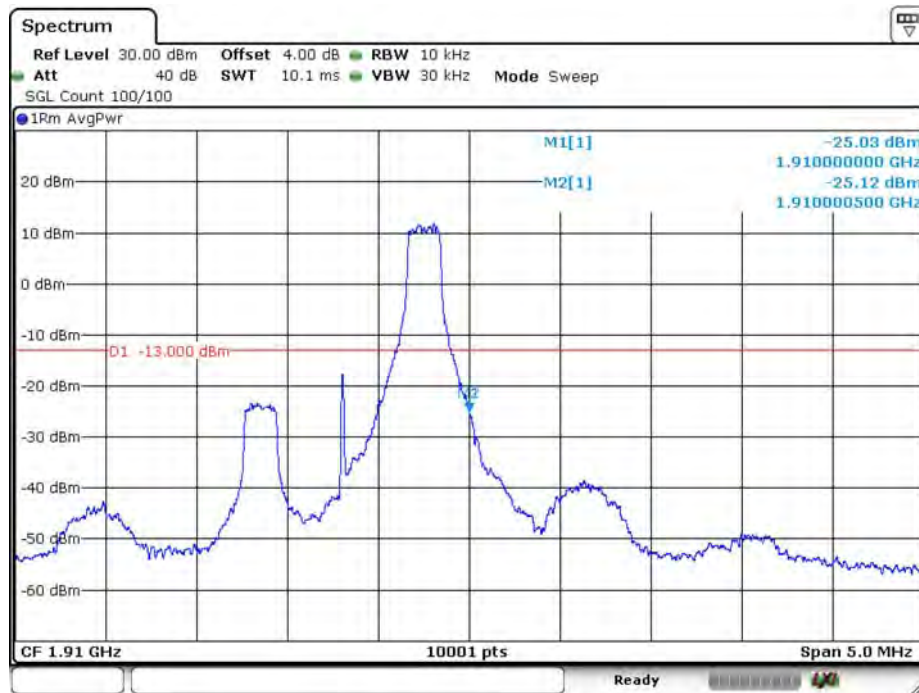
Date: 14.DEC.2019 16:11:17

LTE_B2_CH18607_1.4M_16-QAM_6RB0



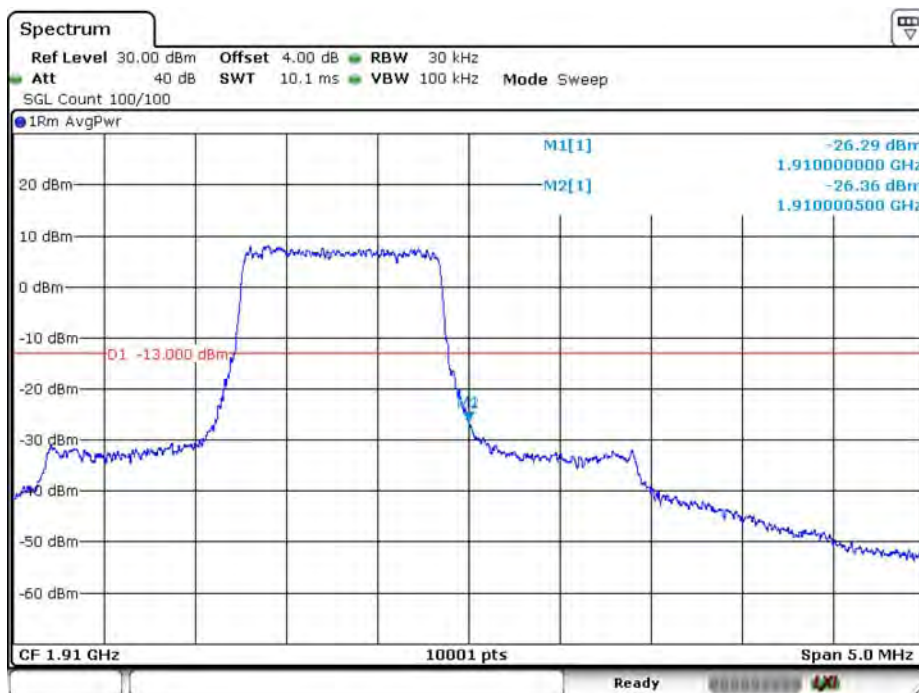
Date: 14.DEC.2019 16:11:41

LTE_B2_CH19193_1.4M_QPSK_1RB5



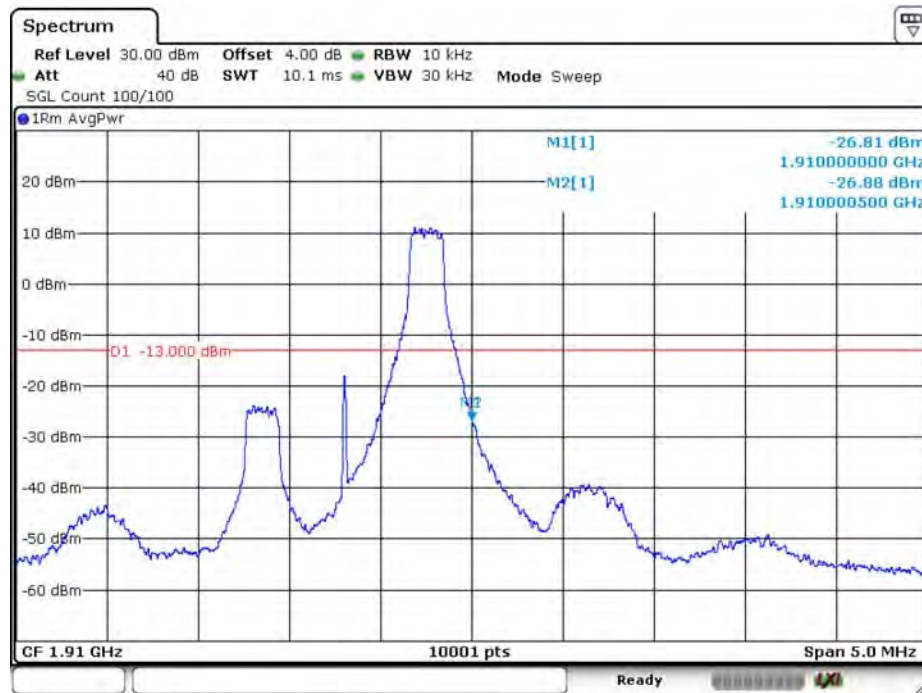
Date: 14.DEC.2019 16:13:17

LTE_B2_CH19193_1.4M_QPSK_6RB0



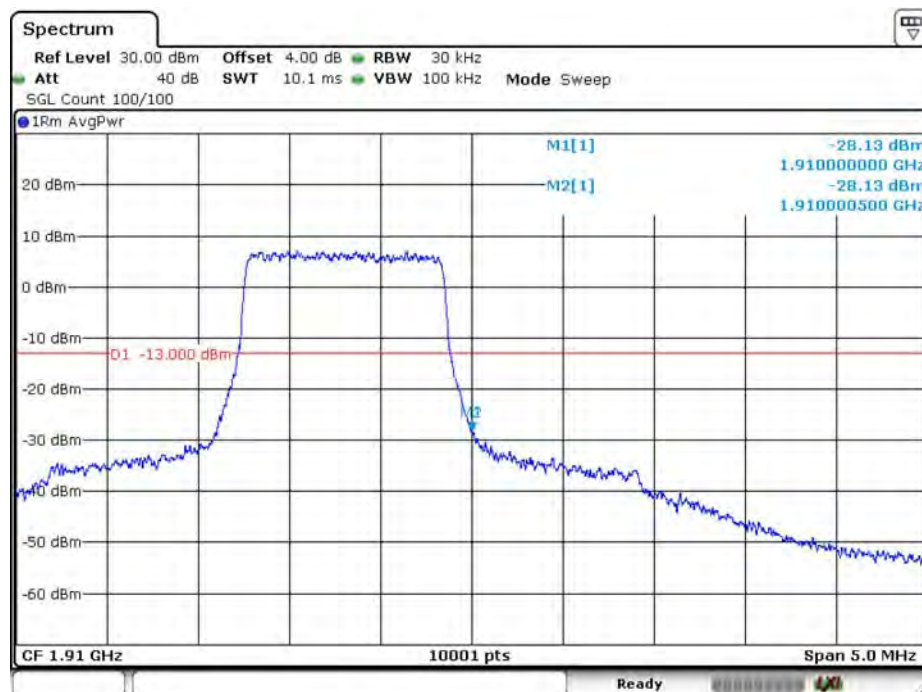
Date: 14.DEC.2019 16:12:30

LTE_B2_CH19193_1.4M_16-QAM_1RB5



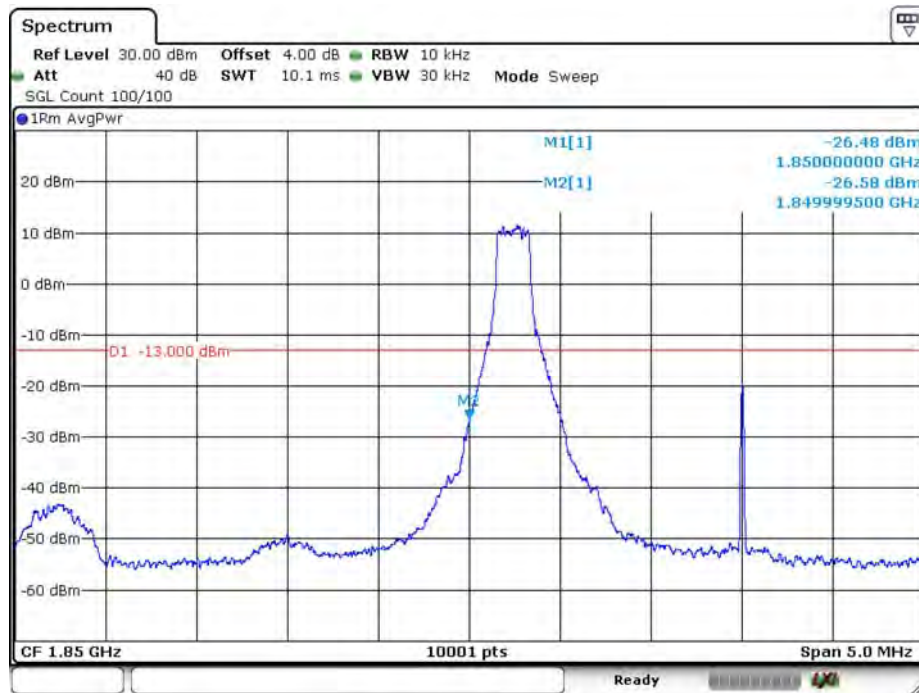
Date: 14.DEC.2019 16:13:02

LTE_B2_CH19193_1.4M_16-QAM_6RB0



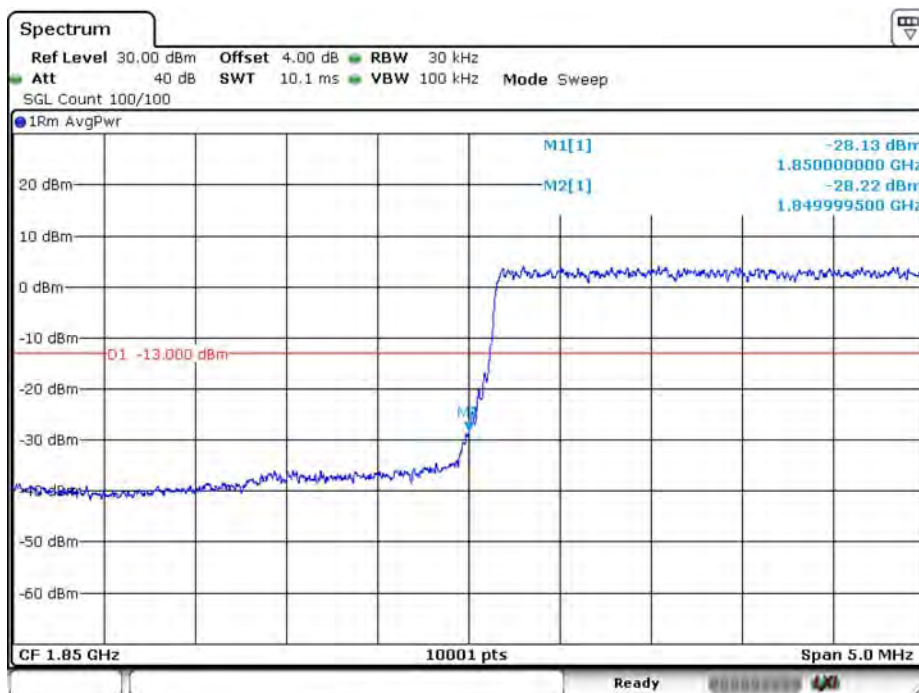
Date: 14.DEC.2019 16:12:43

LTE_B2_CH18615_3M_QPSK_1RB0



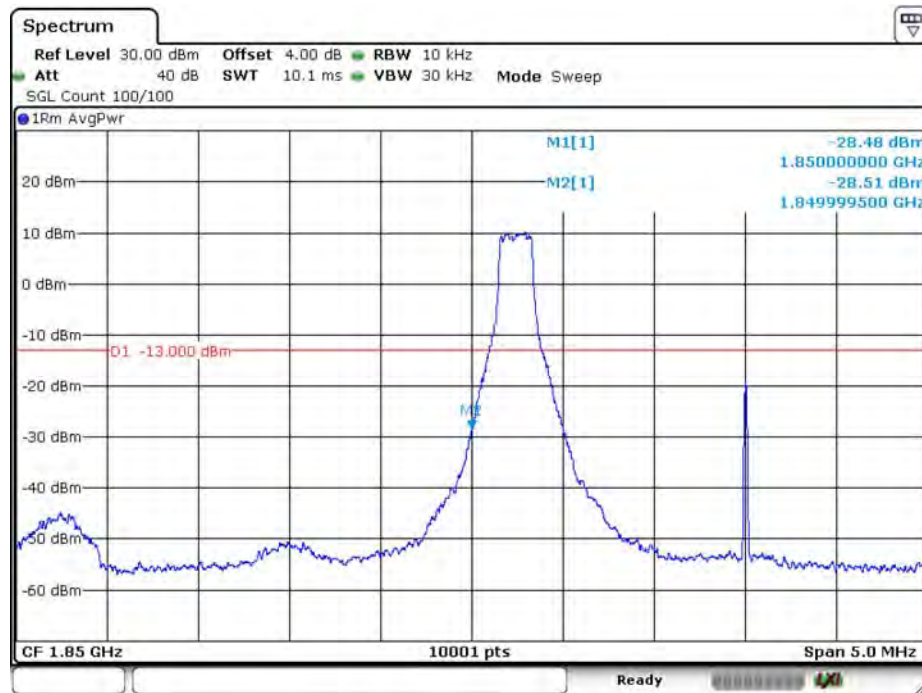
Date: 14.DEC.2019 16:20:59

LTE_B2_CH18615_3M_QPSK_15RB0



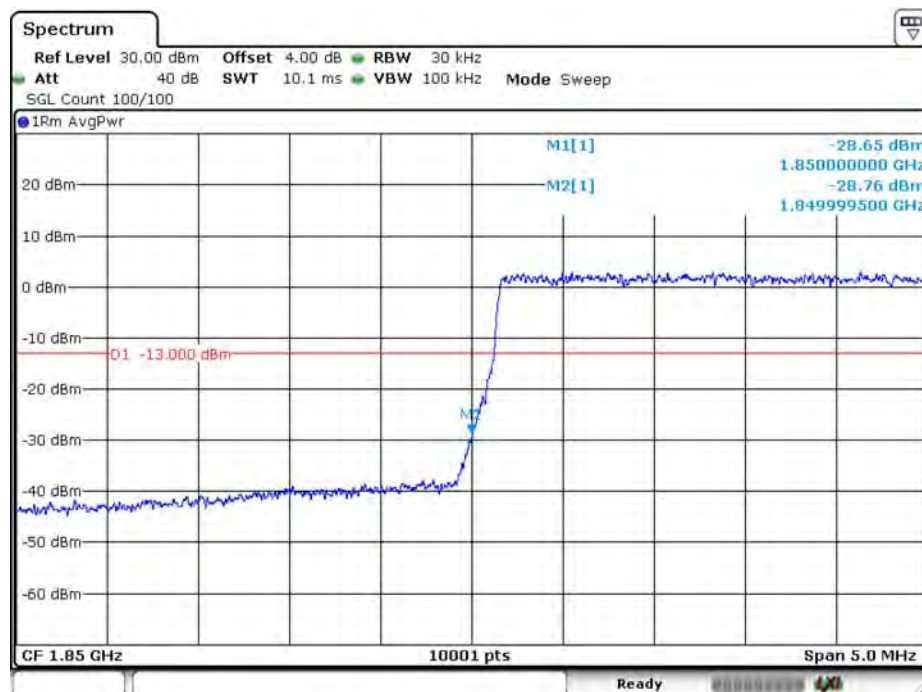
Date: 14.DEC.2019 16:18:25

LTE_B2_CH18615_3M_16-QAM_1RB0



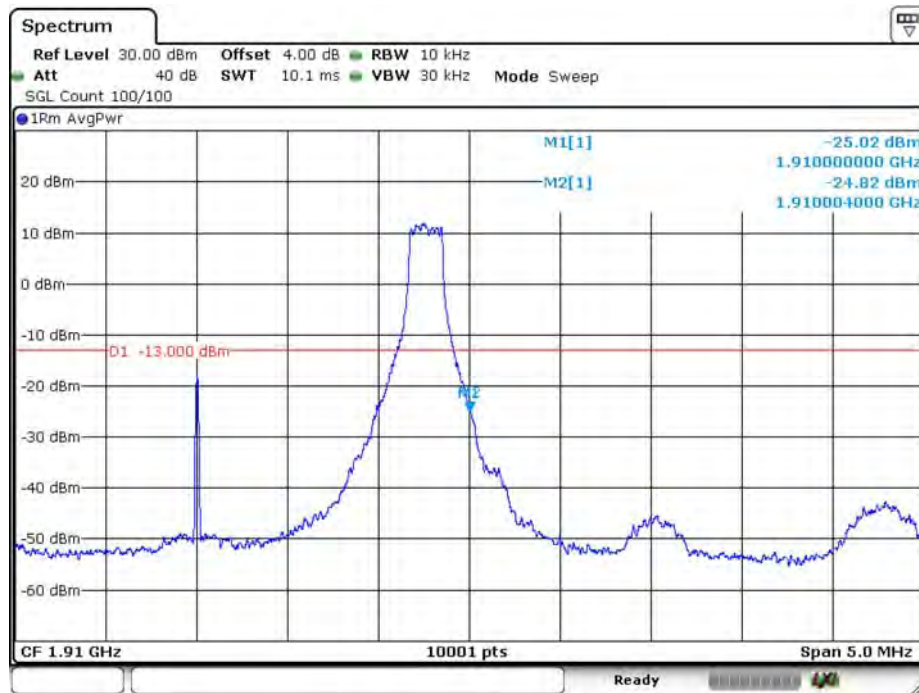
Date: 14, DEC, 2019 16:20:42

LTE_B2_CH18615_3M_16-QAM_15RB0



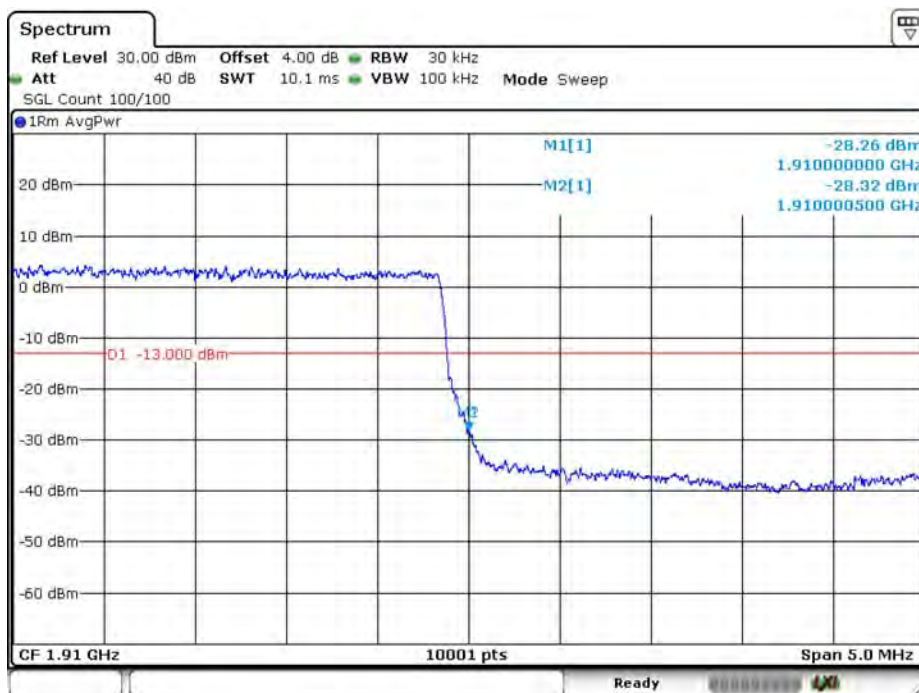
Date: 14, DEC, 2019 16:18:41

LTE_B2_CH19185_3M_QPSK_1RB14



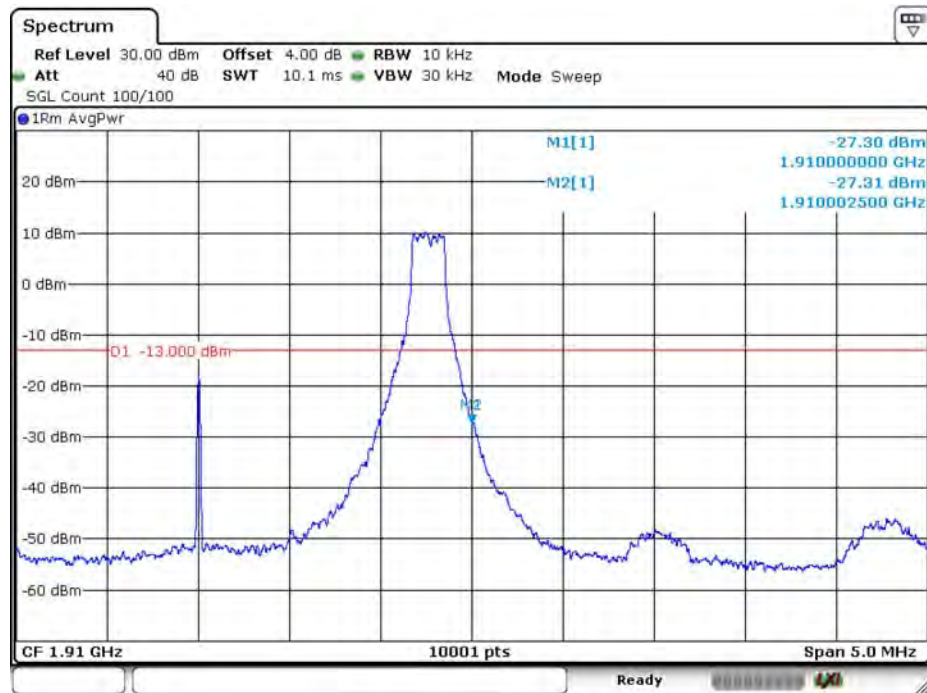
Date: 14.DEC.2019 16:16:27

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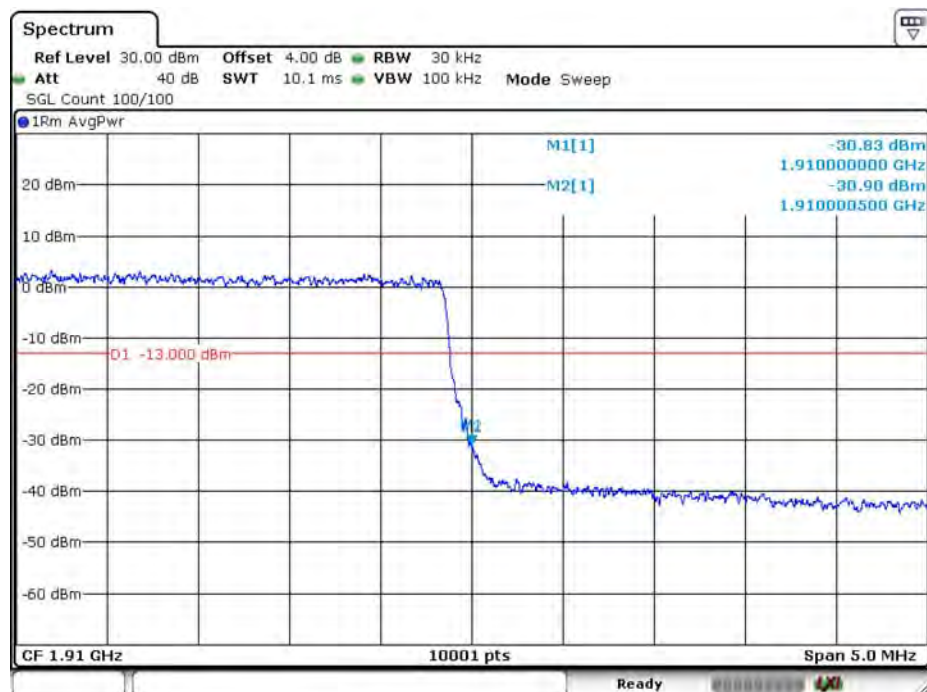
Date: 14.DEC.2019 16:17:37

LTE_B2_CH19185_3M_16-QAM_1RB14



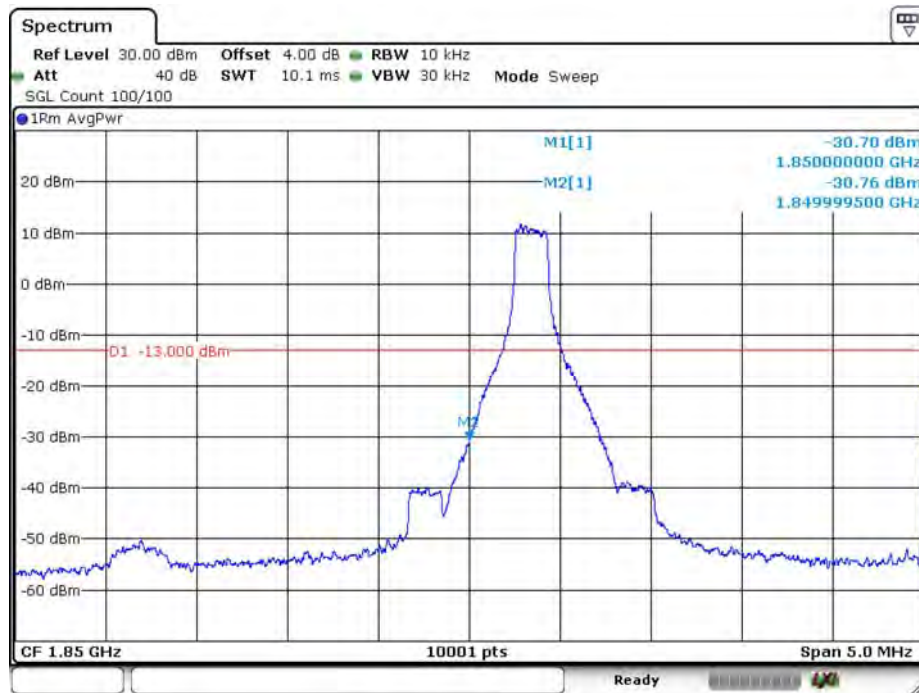
Date: 14, DEC, 2019 16:16:55

LTE_B2_CH19185_3M_16-QAM_15RB0



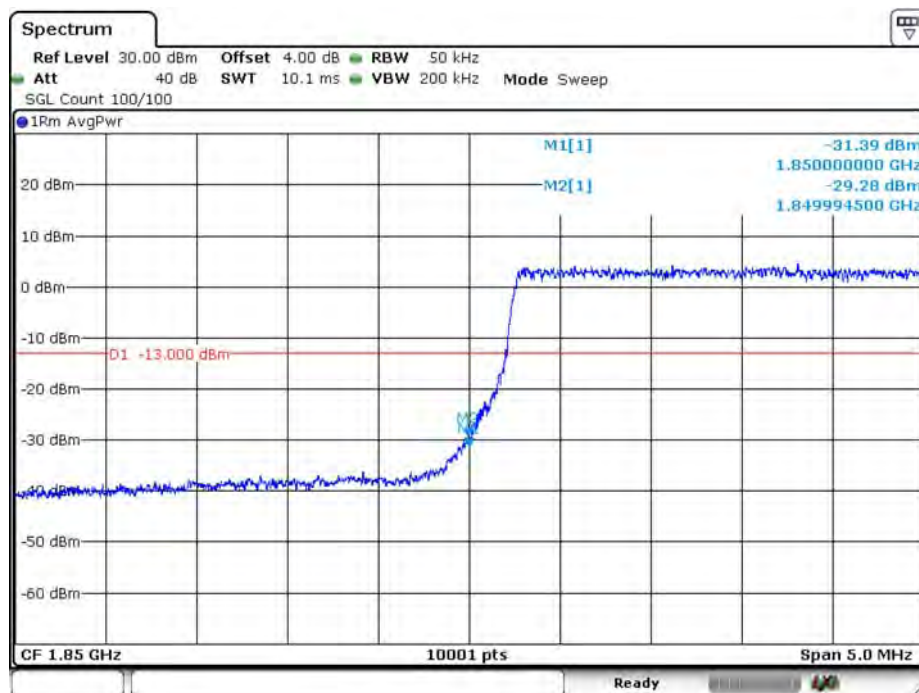
Date: 14, DEC, 2019 16:17:25

LTE_B2_CH18625_5M_QPSK_1RB0



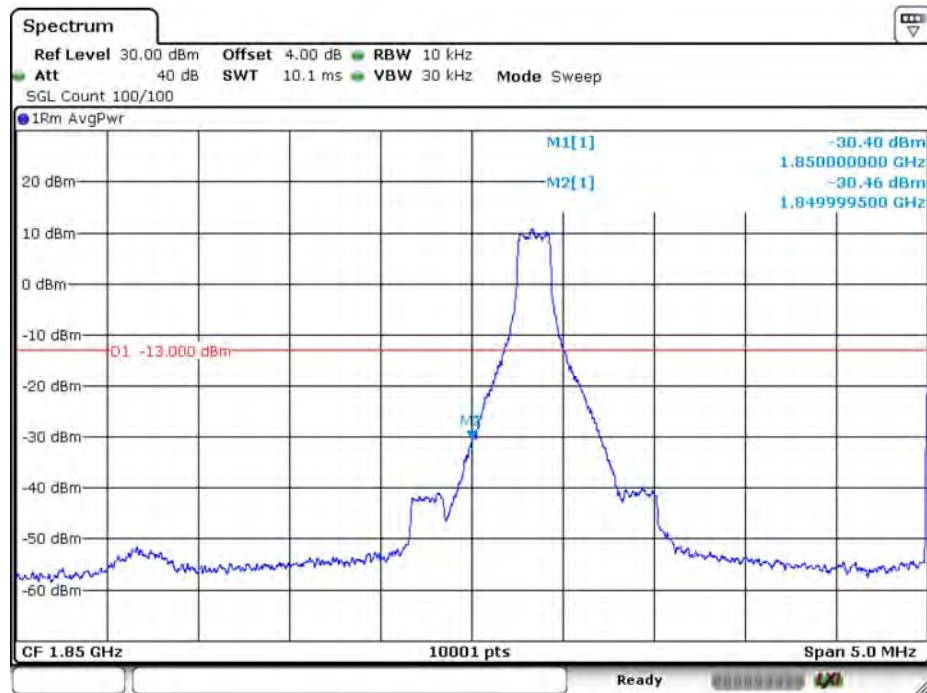
Date: 14.DEC.2019 16:24:29

LTE_B2_CH18625_5M_QPSK_25RB0



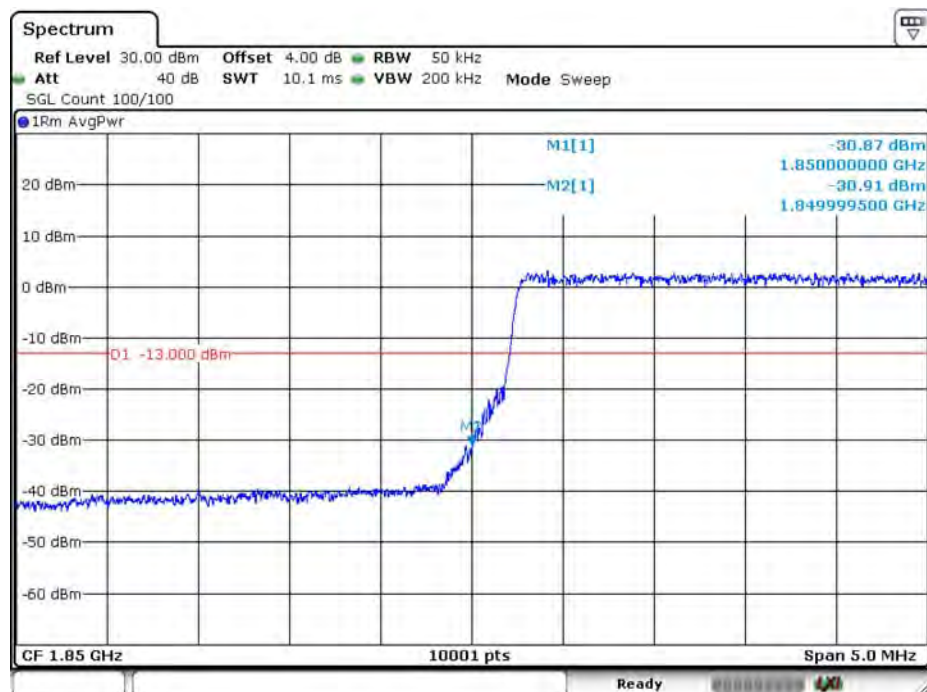
Date: 14.DEC.2019 16:26:04

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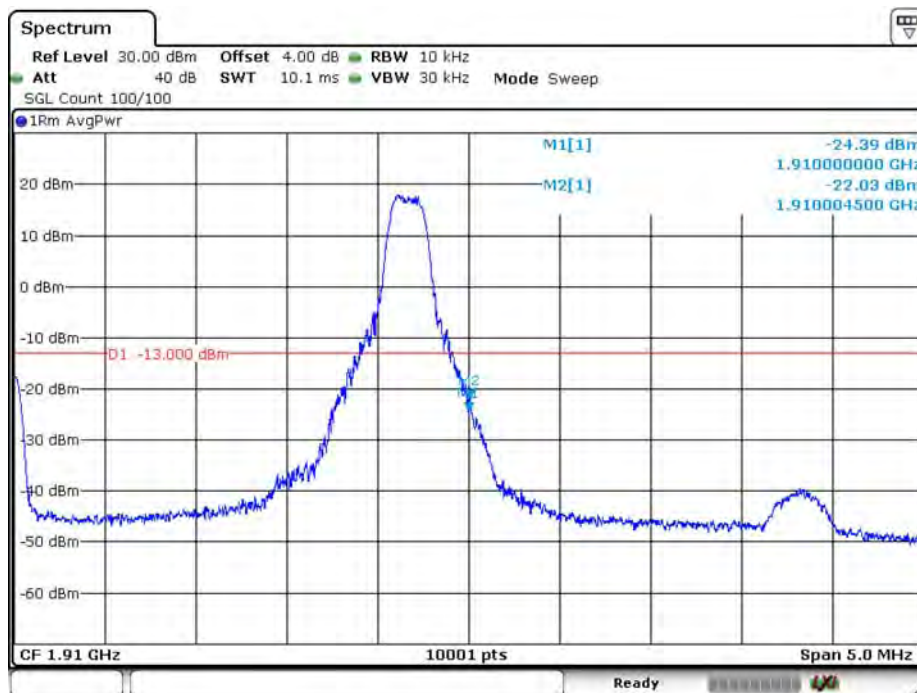
Date: 14.DEC.2019 16:24:54

LTE_B2_CH18625_5M_16-QAM_25RB0



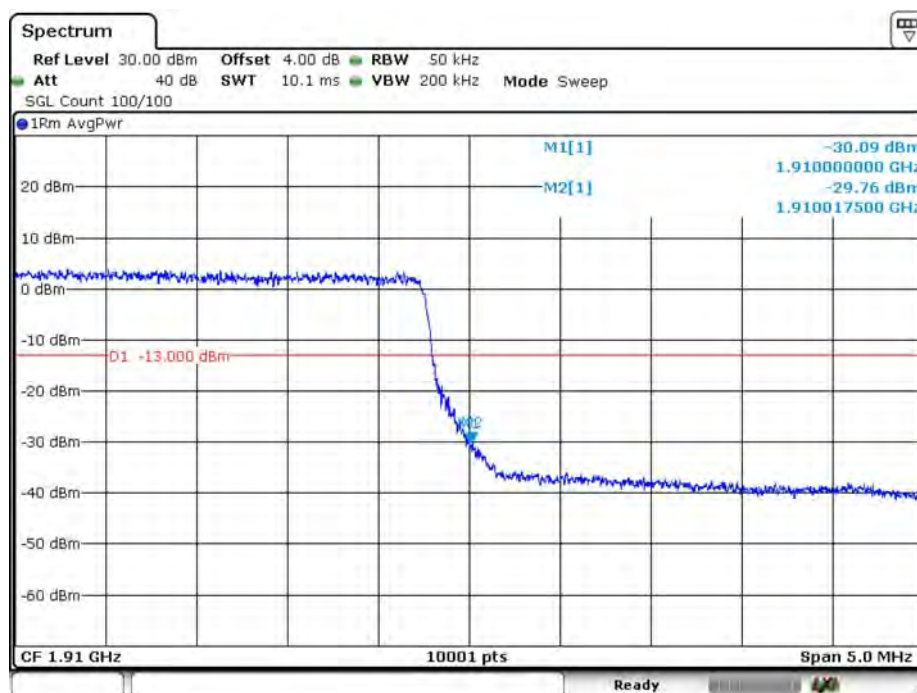
Date: 14.DEC.2019 16:25:52

LTE_B2_CH19175_5M_QPSK_1RB24



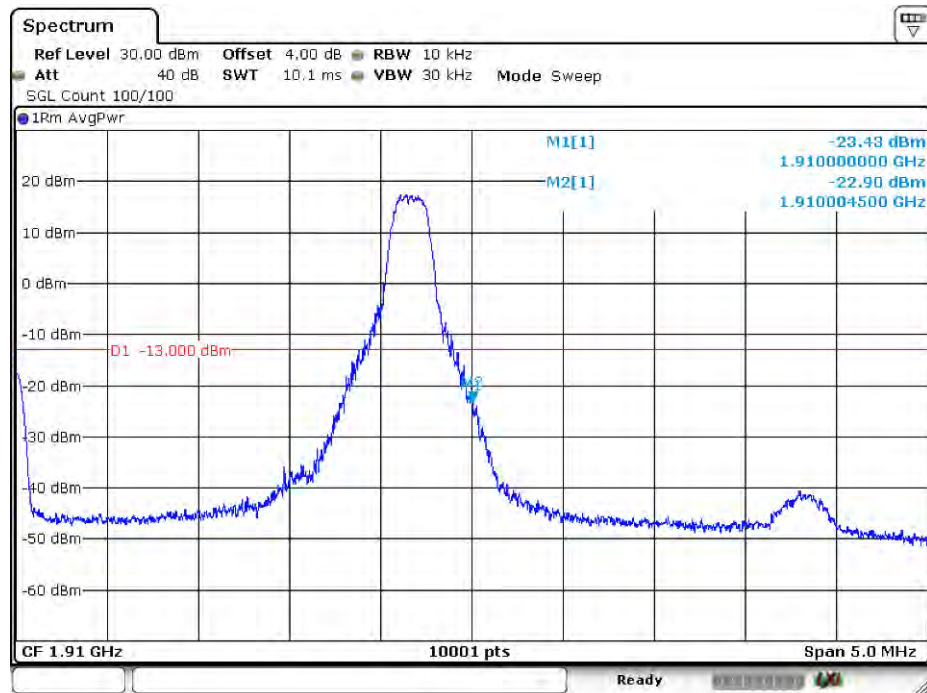
Date: 14.DEC.2019 16:30:53

LTE_B2_CH19175_5M_QPSK_25RB0



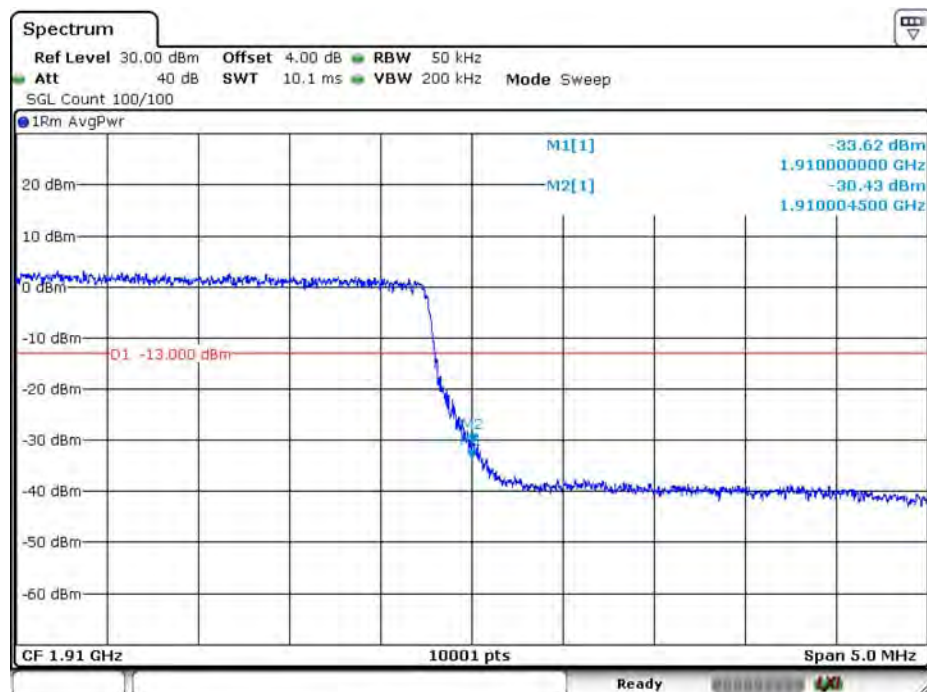
Date: 14.DEC.2019 16:27:44

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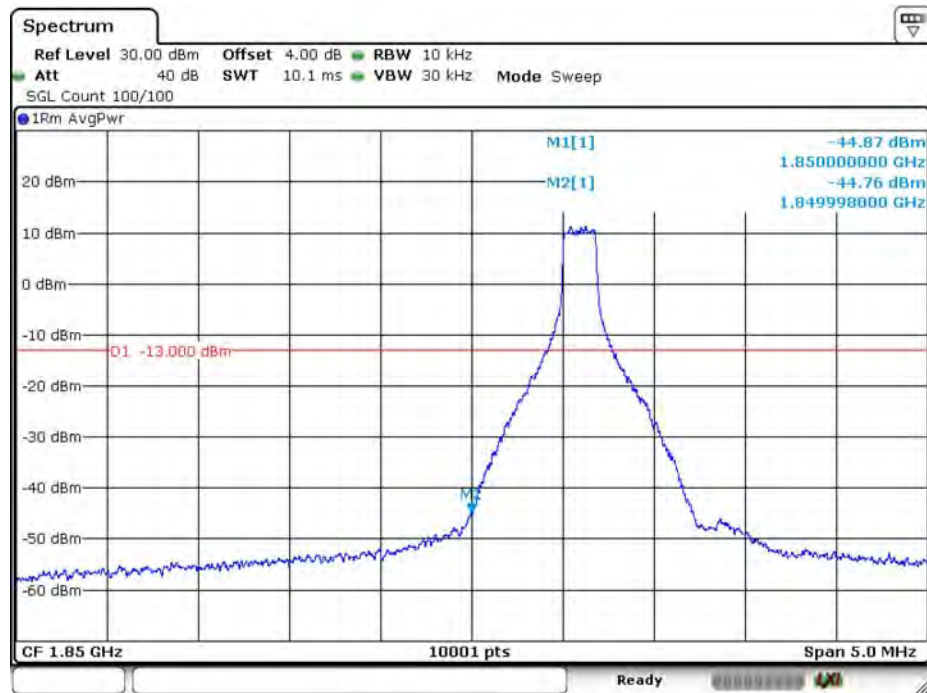
Date: 14.DEC.2019 16:30:33

LTE_B2_CH19175_5M_16-QAM_25RB0



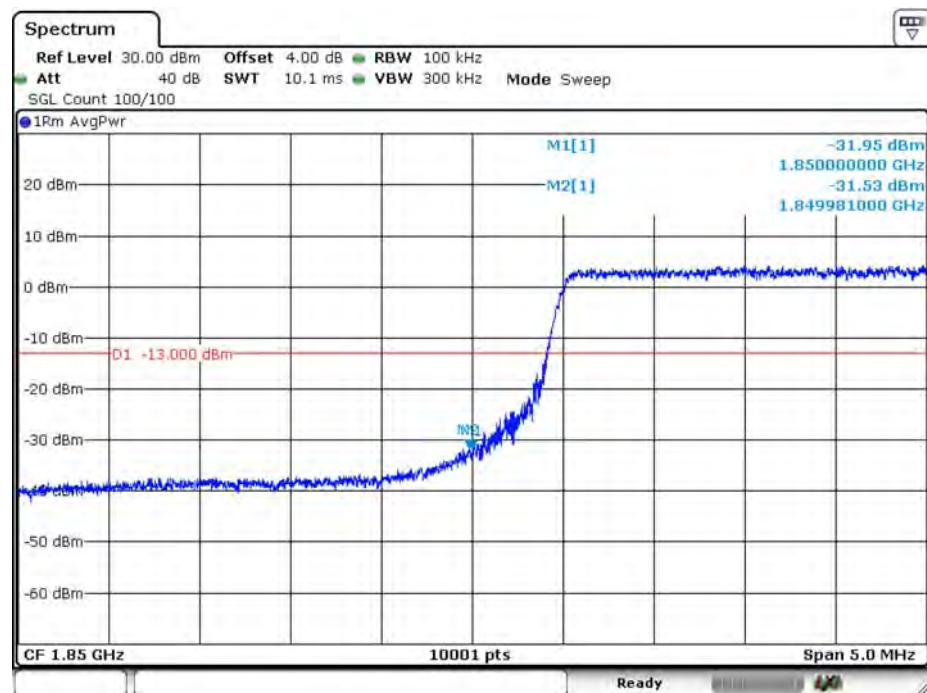
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LTE_B2_CH18650_10M_QPSK_1RB0



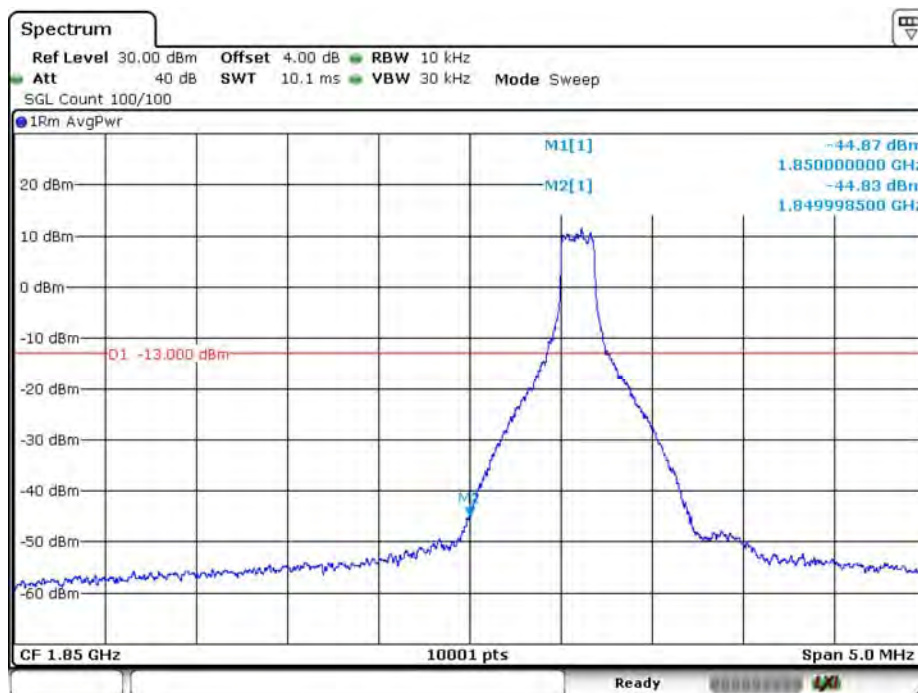
Date: 14.DEC.2019 16:37:29

LTE_B2_CH18650_10M_QPSK_50RB0



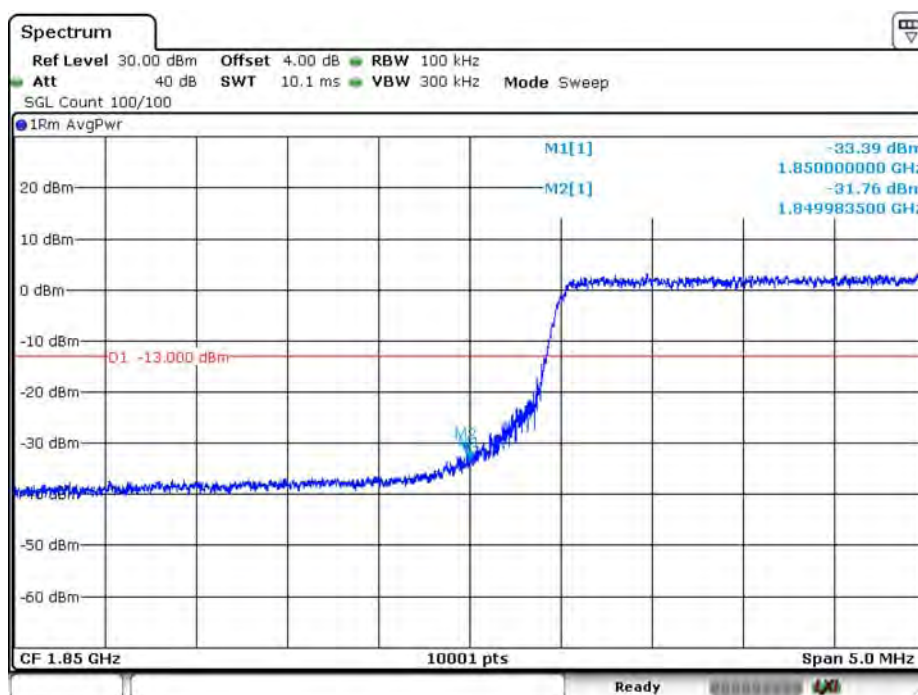
Date: 14.DEC.2019 16:36:18

LTE_B2_CH18650_10M_16-QAM_1RB0



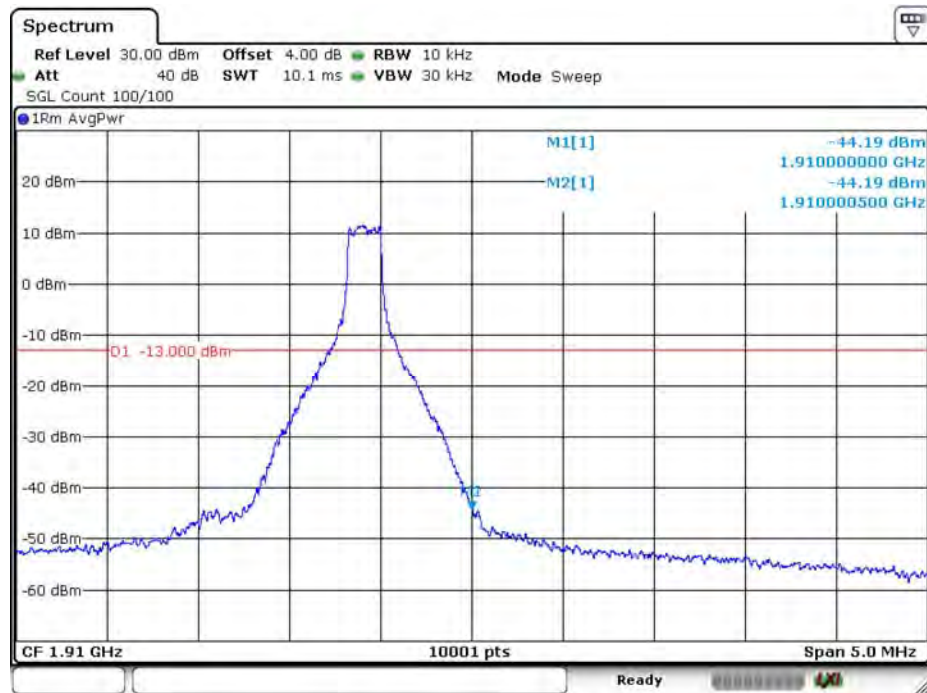
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LTE_B2_CH18650_10M_16-QAM_50RB0



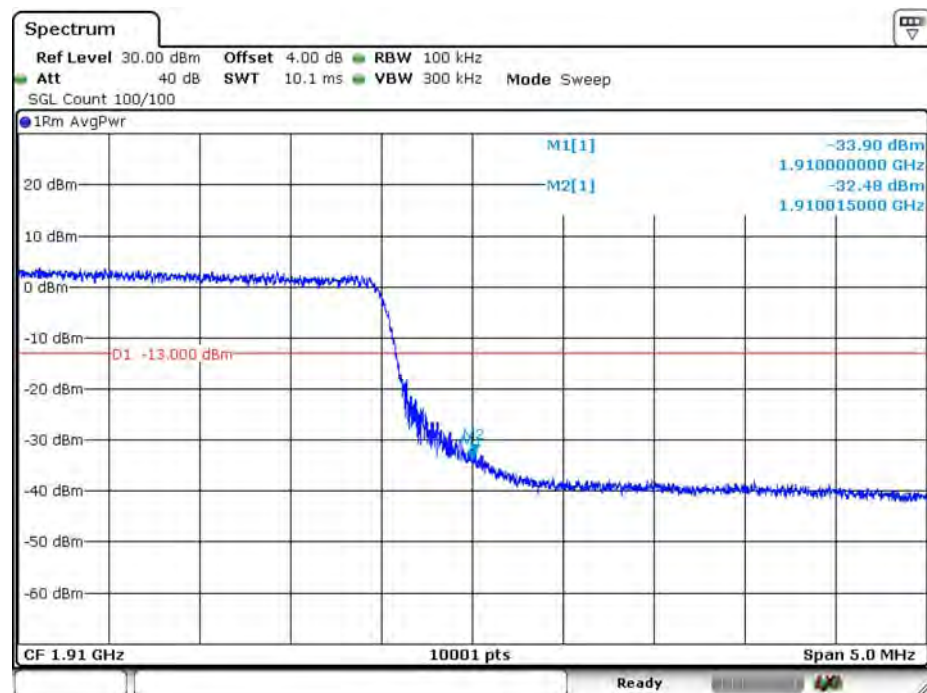
Date: 14, DEC, 2019 16:36:36

LTE_B2_CH19150_10M_QPSK_1RB49



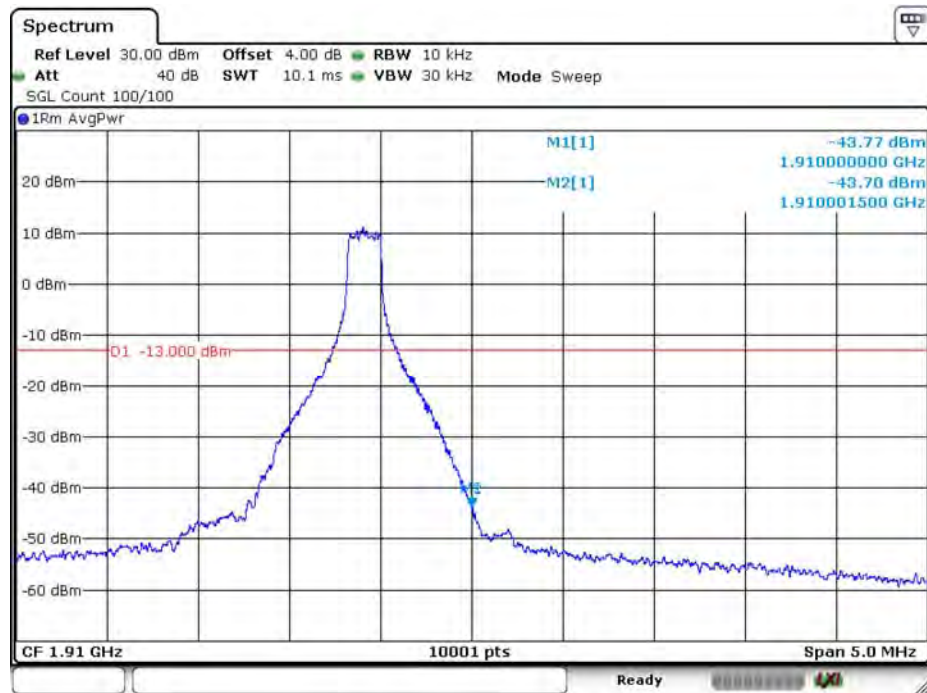
Date: 14.DEC.2019 16:33:53

LTE_B2_CH19150_10M_QPSK_50RB0



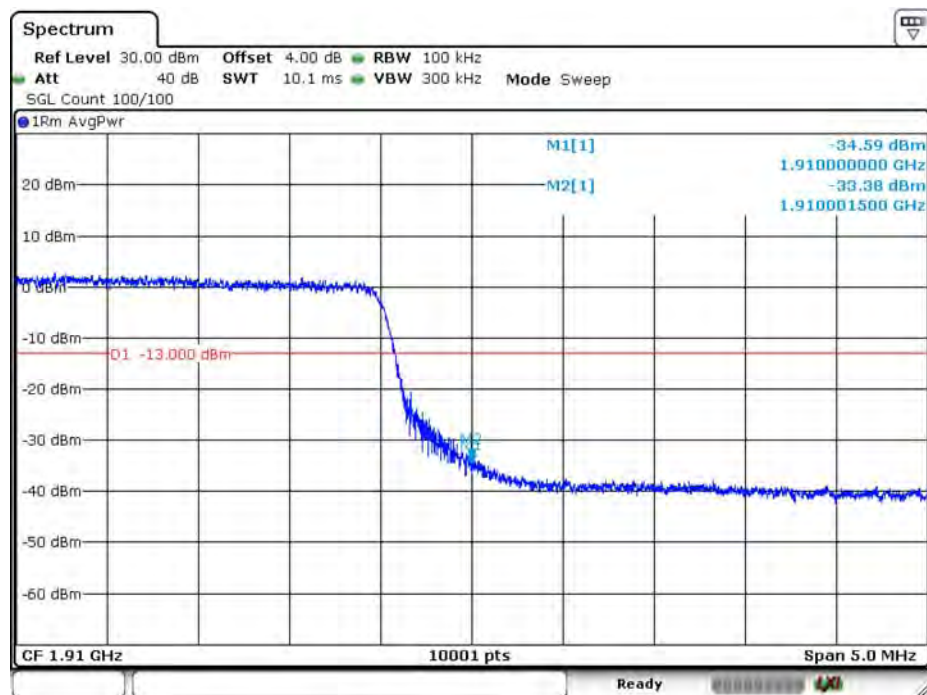
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LTE_B2_CH19150_10M_16-QAM_1RB49



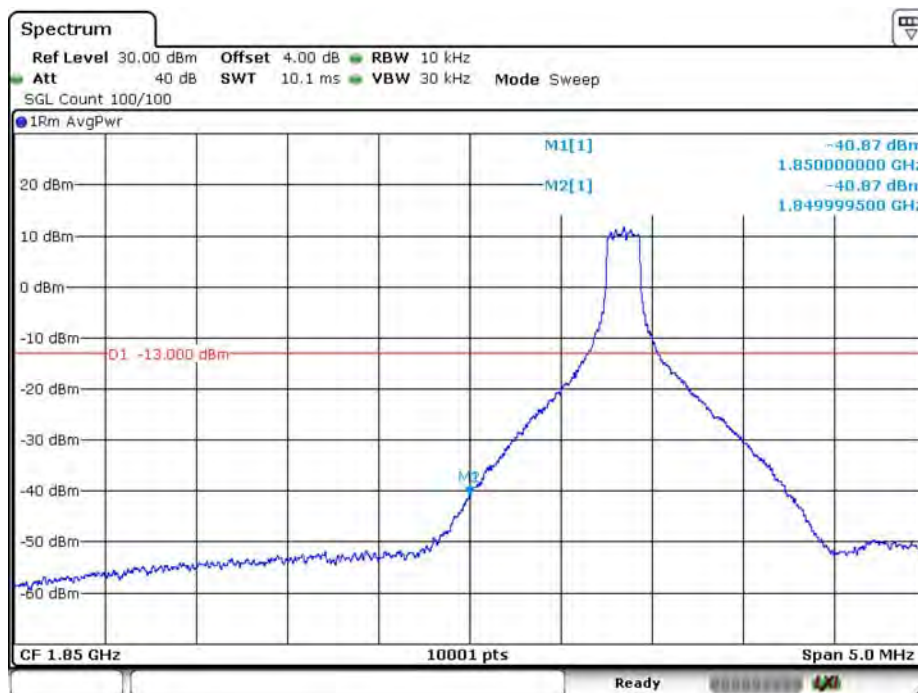
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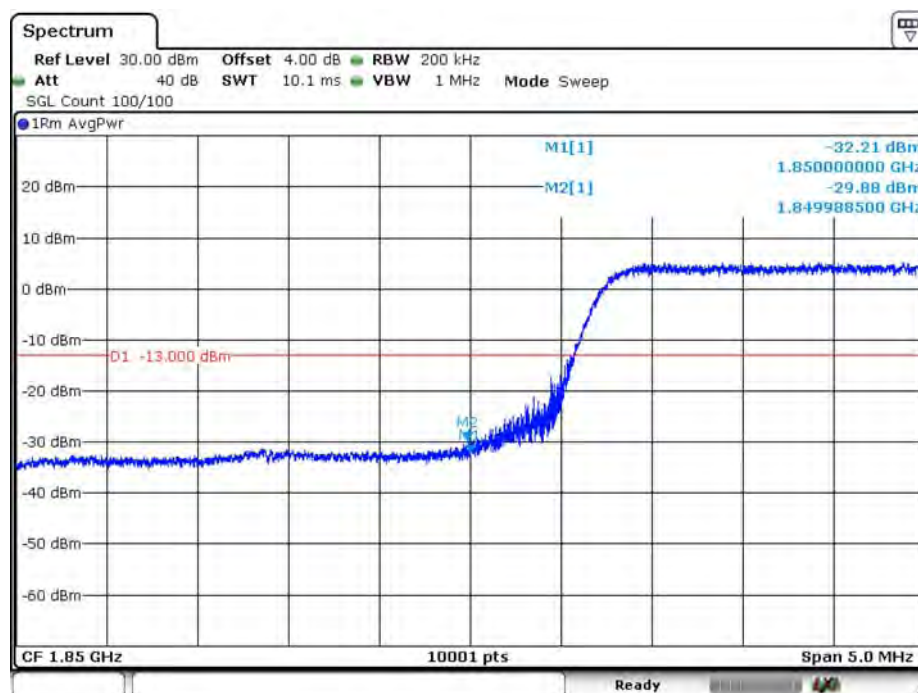
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LTE_B2_CH18675_15M_QPSK_1RB0



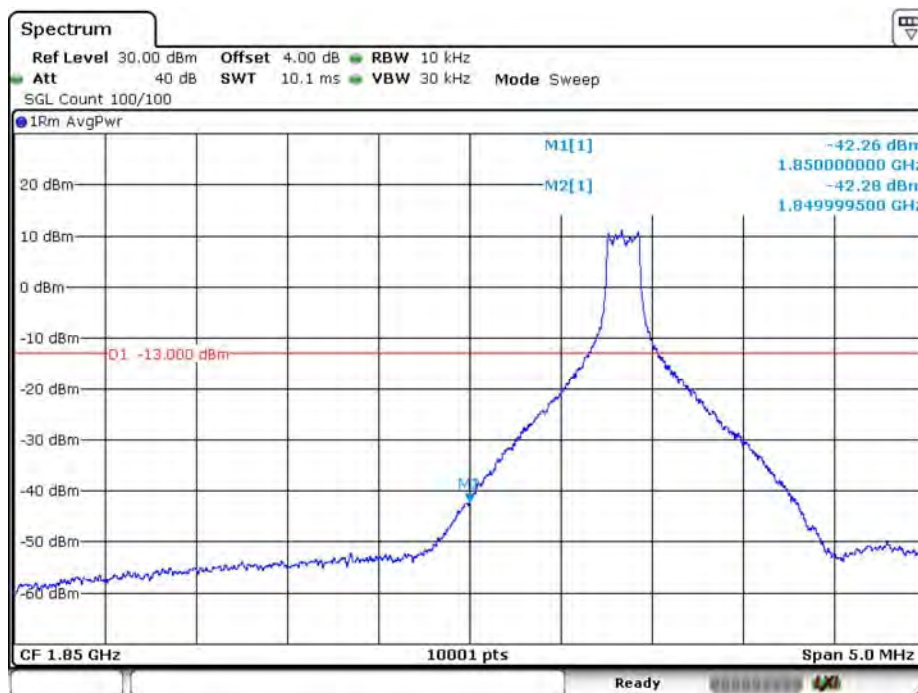
Date: 14.DEC.2019 16:37:59

LTE_B2_CH18675_15M_QPSK_75RB0



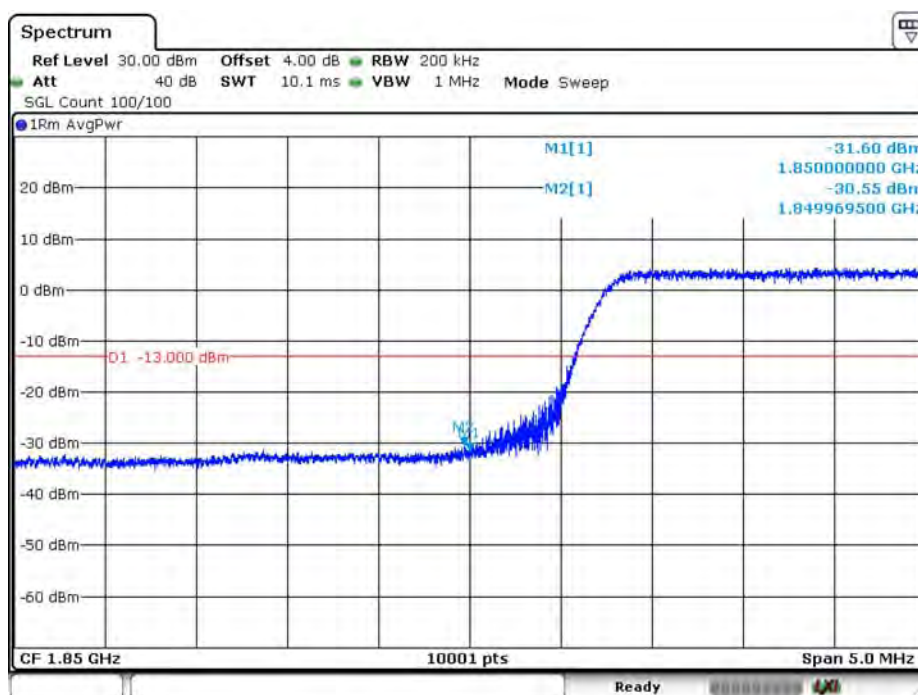
Date: 14.DEC.2019 16:39:04

LTE_B2_CH18675_15M_16-QAM_1RB0



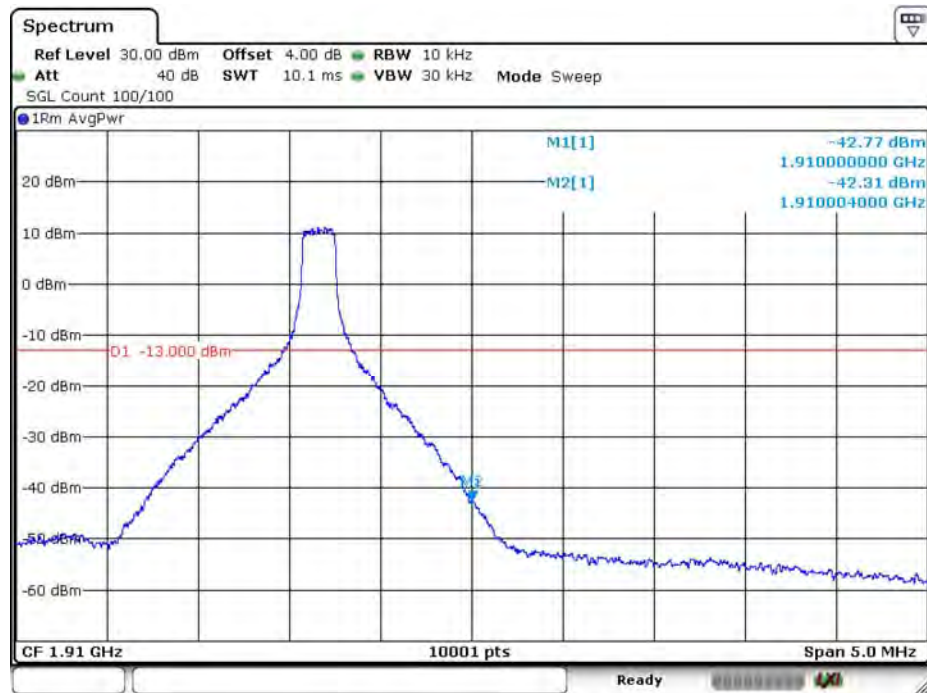
Date: 14.DEC.2019 16:38:28

LTE_B2_CH18675_15M_16-QAM_75RB0



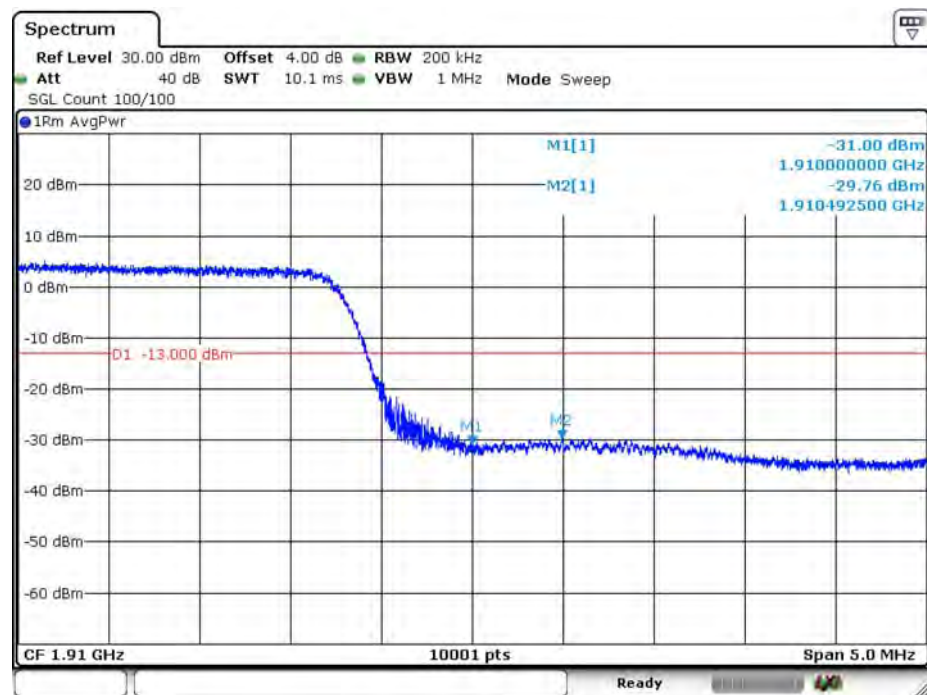
Date: 14.DEC.2019 16:38:49

LTE_B2_CH19125_15M_QPSK_1RB74



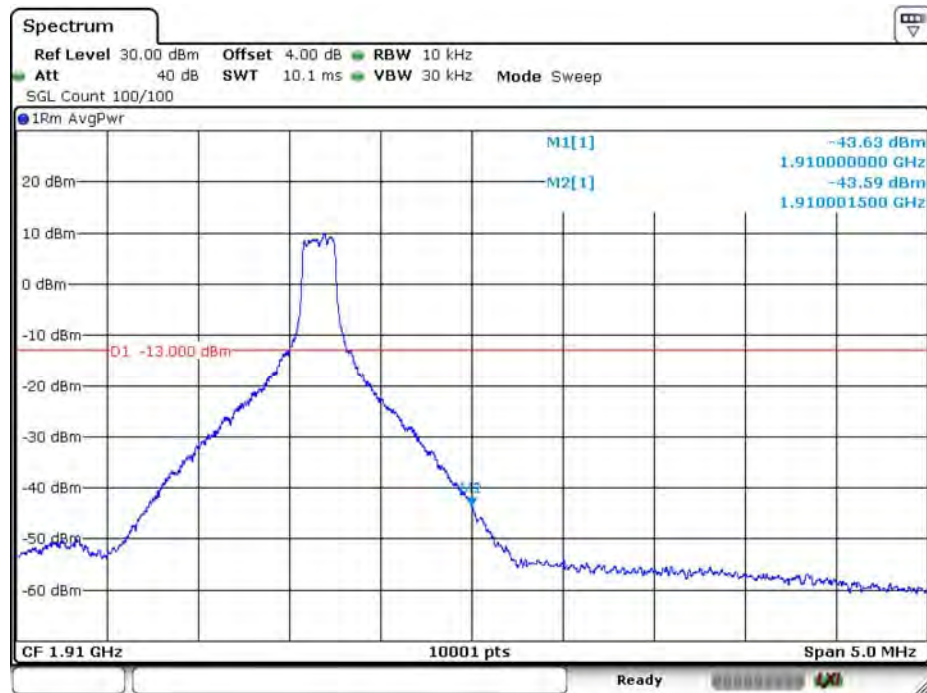
Date: 14.DEC.2019 16:40:43

LTE_B2_CH19125_15M_QPSK_75RB0



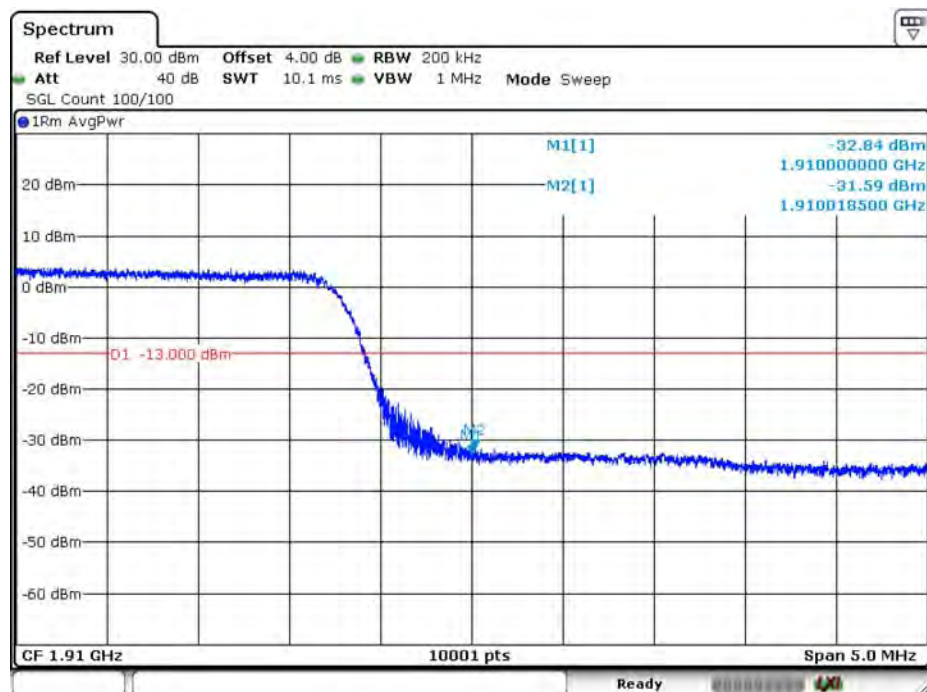
Date: 14.DEC.2019 16:39:37

LTE_B2_CH19125_15M_16-QAM_1RB74



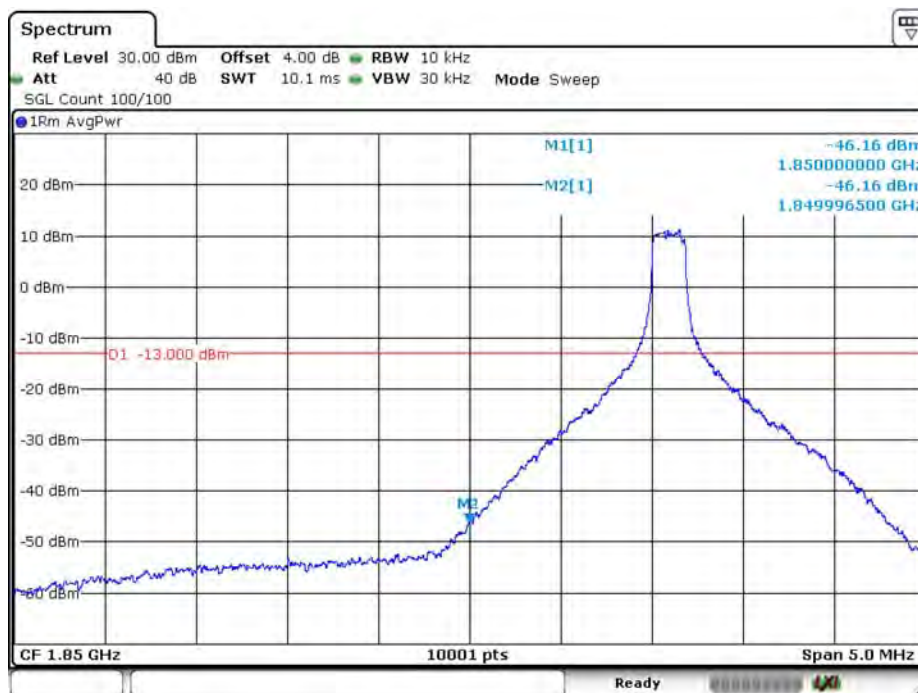
Date: 14.DEC.2019 16:40:21

LTE_B2_CH19125_15M_16-QAM_75RB0



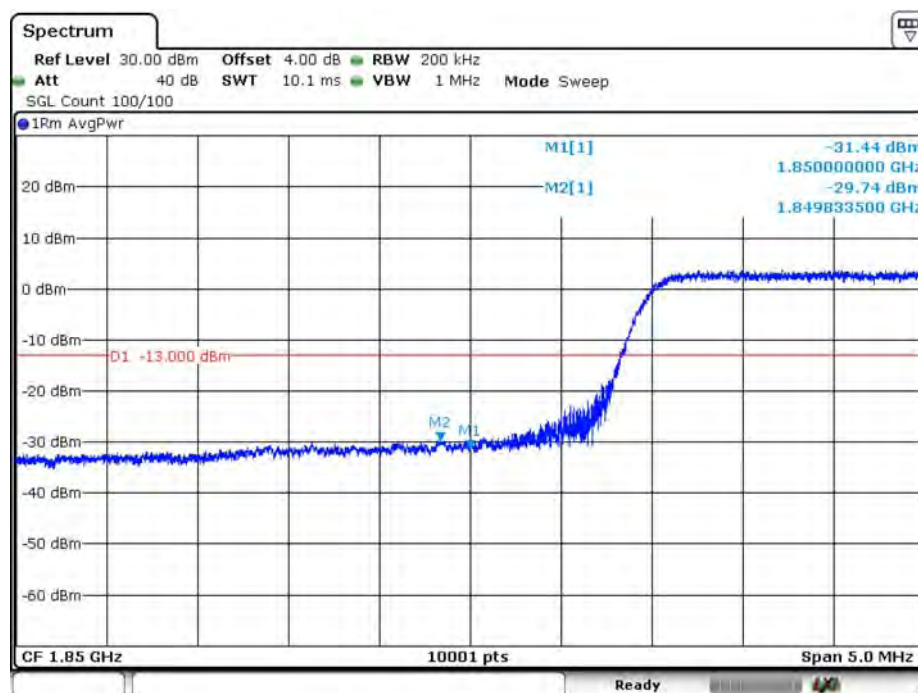
Date: 14.DEC.2019 16:39:53

LTE_B2_CH18700_20M_QPSK_1RB0



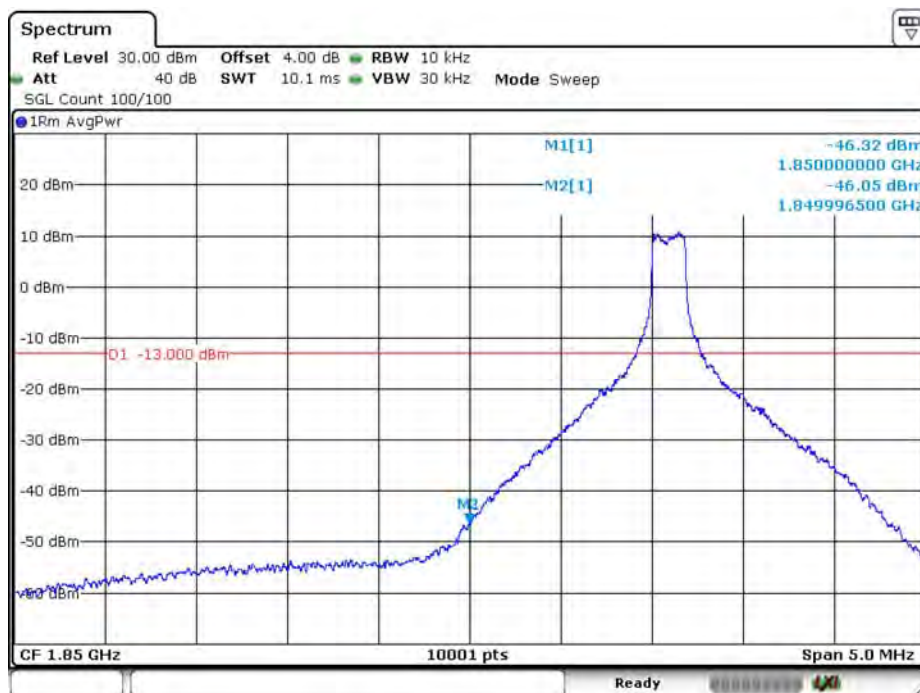
Date: 14.DEC.2019 16:43:35

LTE_B2_CH18700_20M_QPSK_100RB0



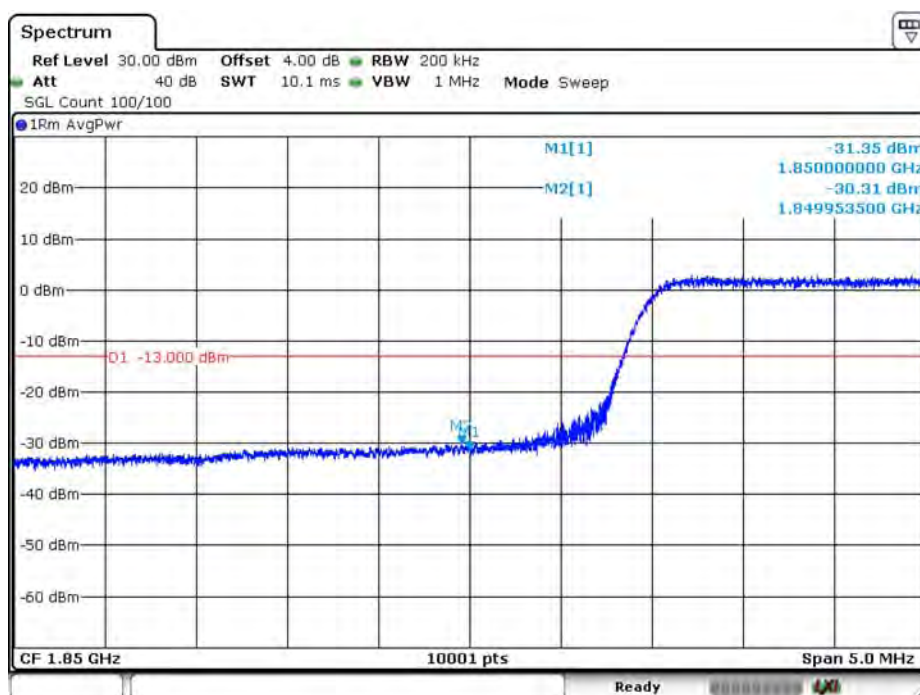
Date: 14.DEC.2019 16:42:46

LTE_B2_CH18700_20M_16-QAM_1RB0



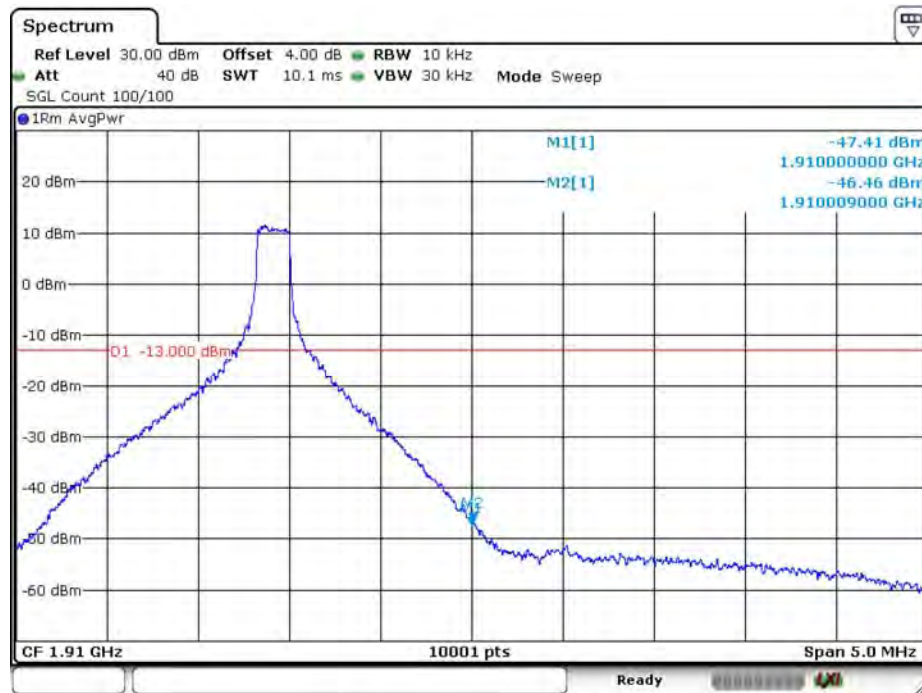
Date: 14, DEC. 2019 16:43:20

LTE_B2_CH18700_20M_16-QAM_100RB0



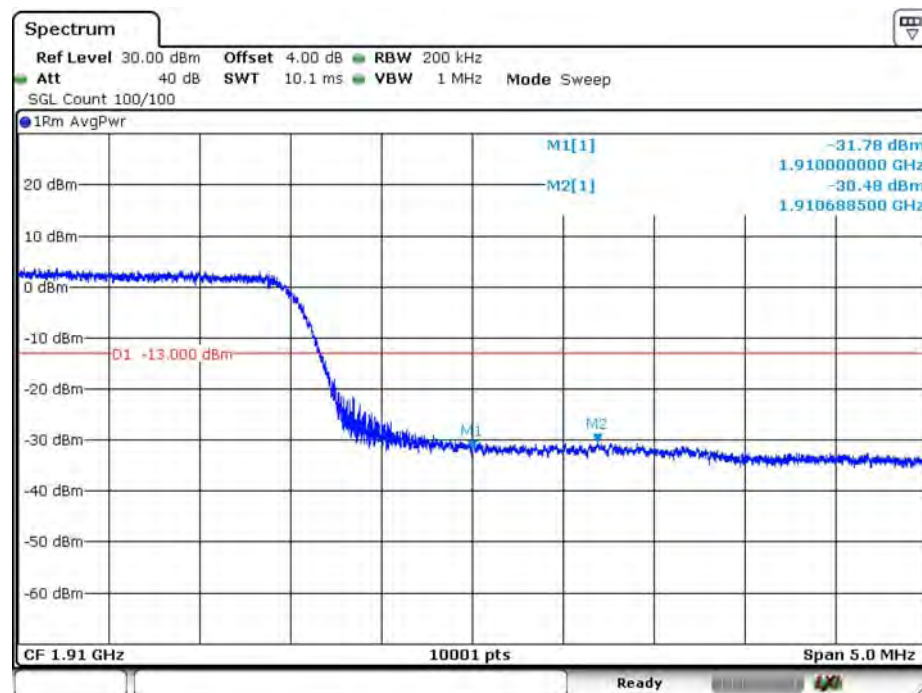
Date: 14, DEC. 2019 16:42:58

LTE_B2_CH19100_20M_QPSK_1RB99



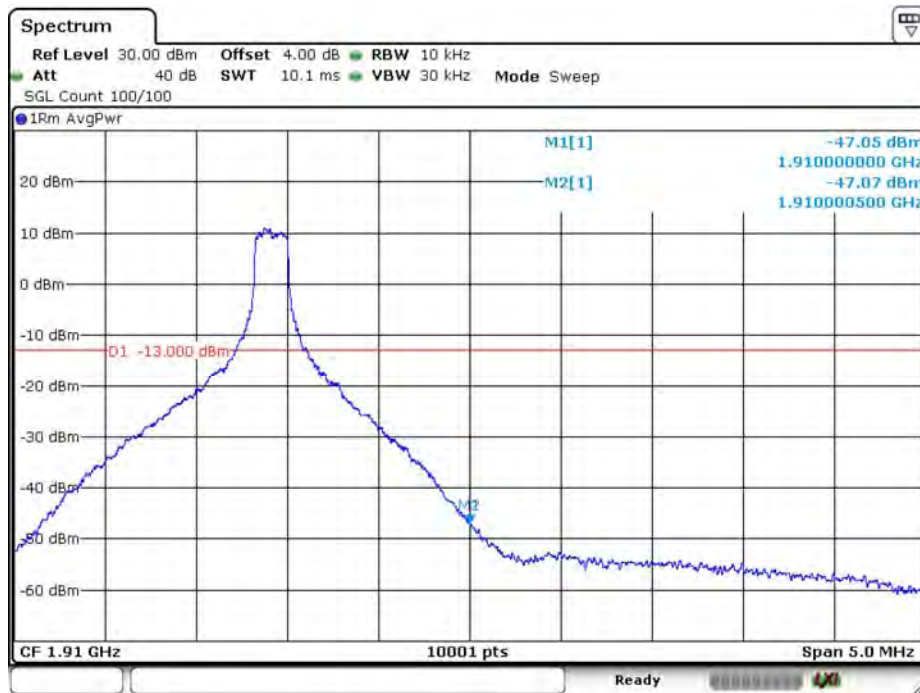
Date: 14.DEC.2019 16:41:27

LTE_B2_CH19100_20M_QPSK_100RB0



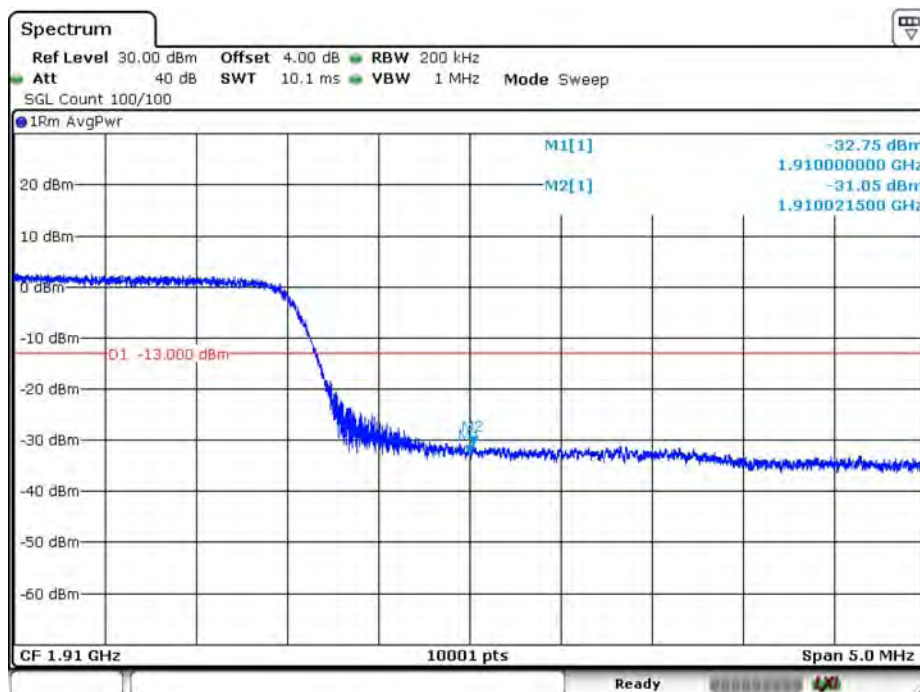
Date: 14.DEC.2019 16:42:17

LTE_B2_CH19100_20M_16-QAM_1RB99



Date: 14.DEC.2019 16:41:46

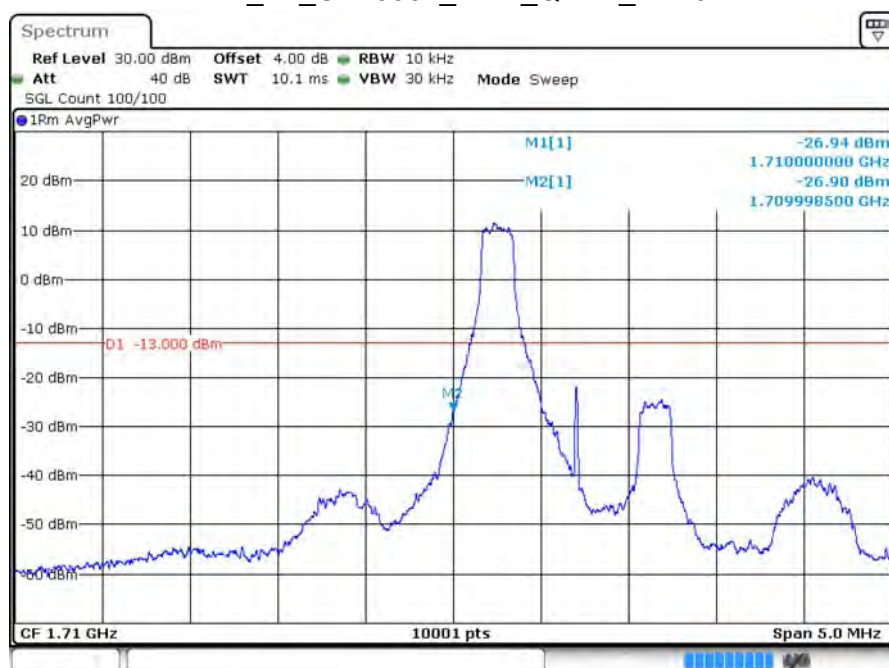
LTE_B2_CH19100_20M_16-QAM_100RB0



Date: 14.DEC.2019 16:42:05

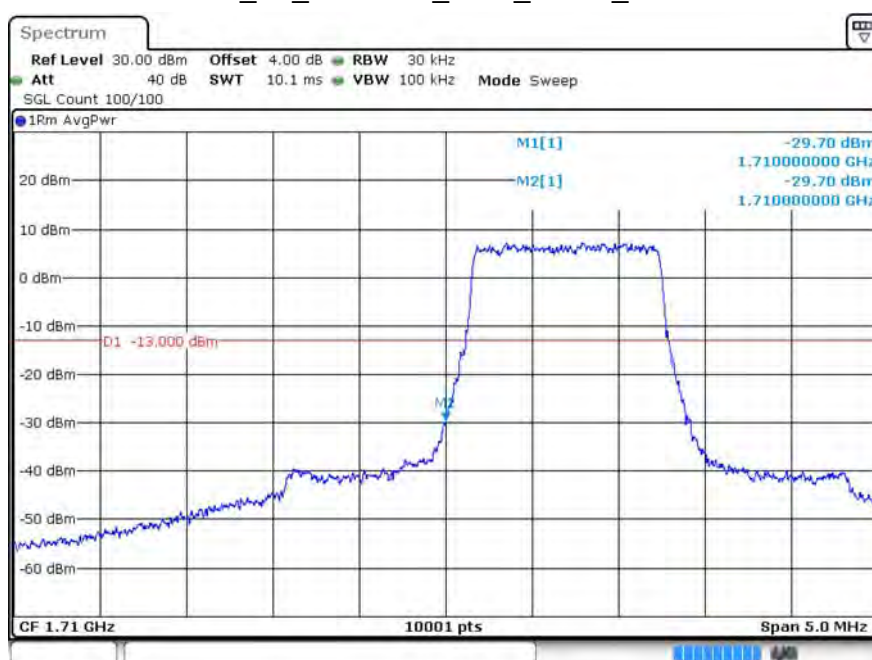
Product	Module		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2019/12/16	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	60%RH

LTE_B4_CH19957_1.4M_QPSK_1RB0



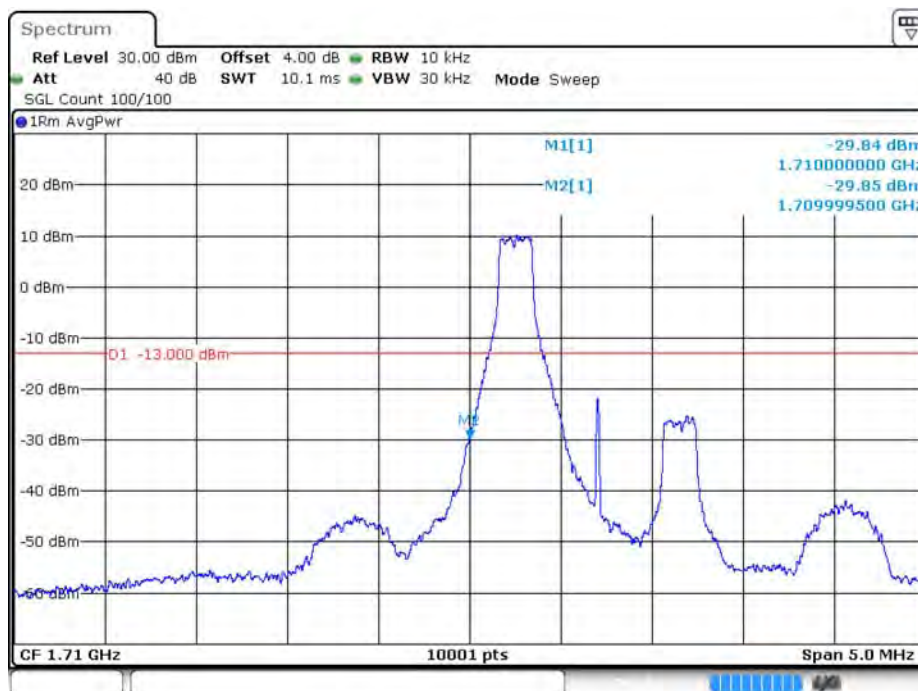
Date: 16 DEC 2019 10:13:07

LTE_B4_CH19957_1.4M_QPSK_6RB0

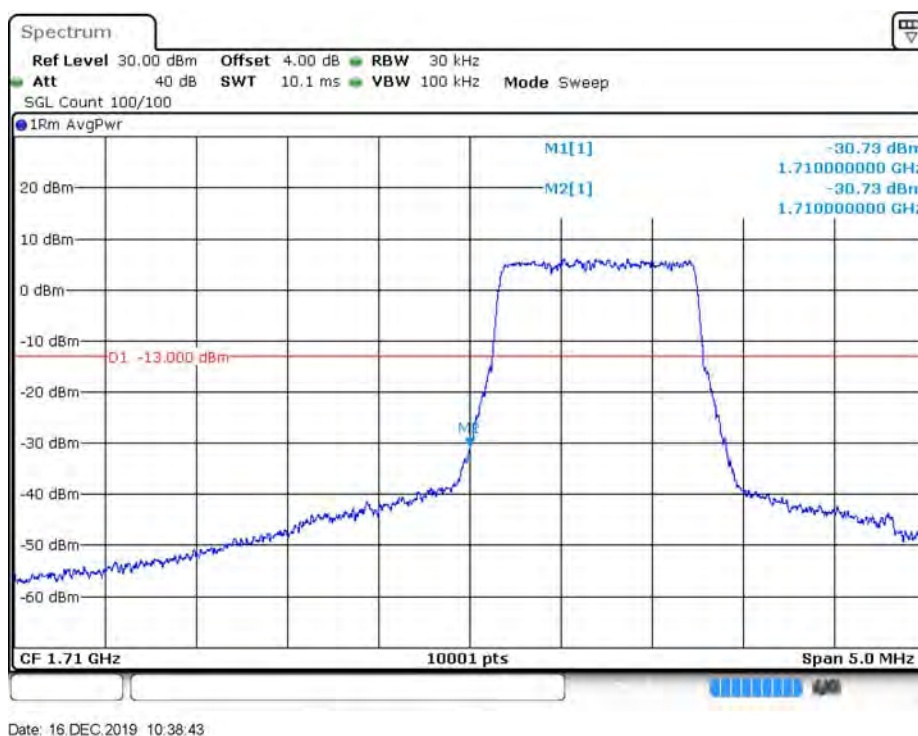


Date: 16 DEC 2019 10:38:23

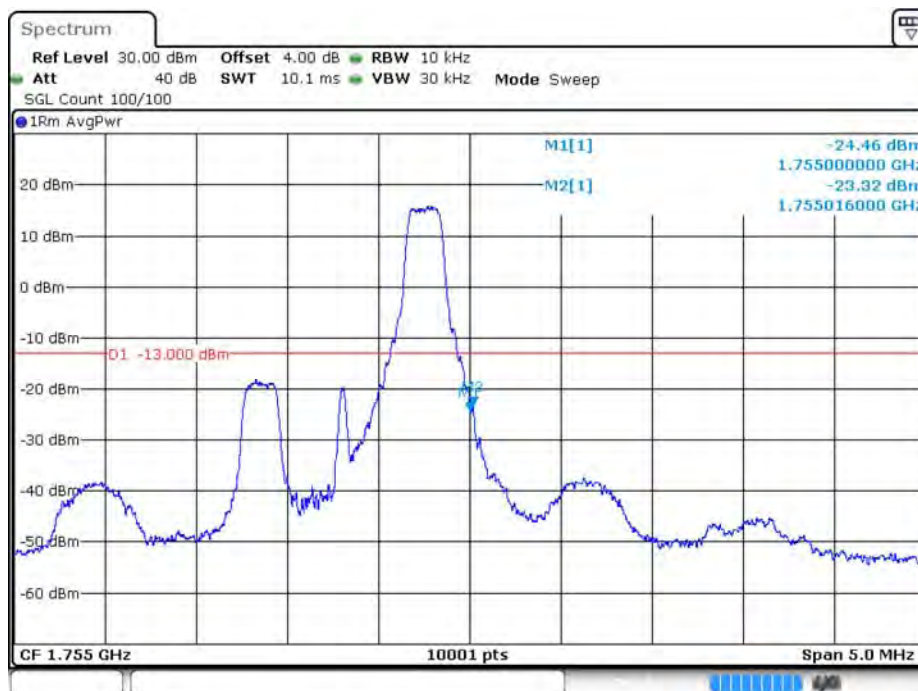
LTE_B4_CH19957_1.4M_16-QAM_1RB0



LTE_B4_CH19957_1.4M_16-QAM_6RB0

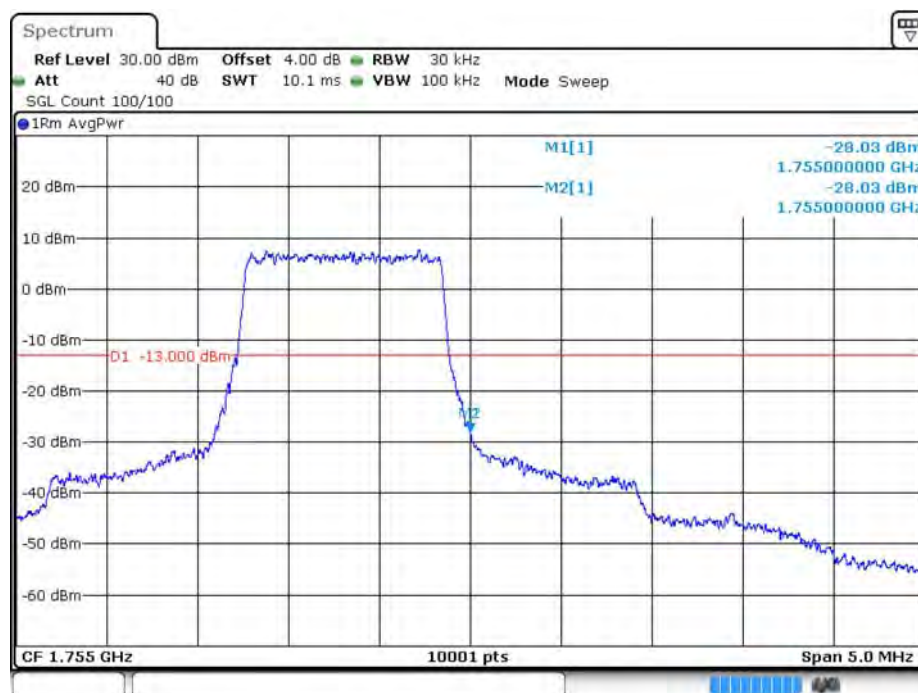


LTE_B4_CH20393_1.4M_QPSK_1RB5



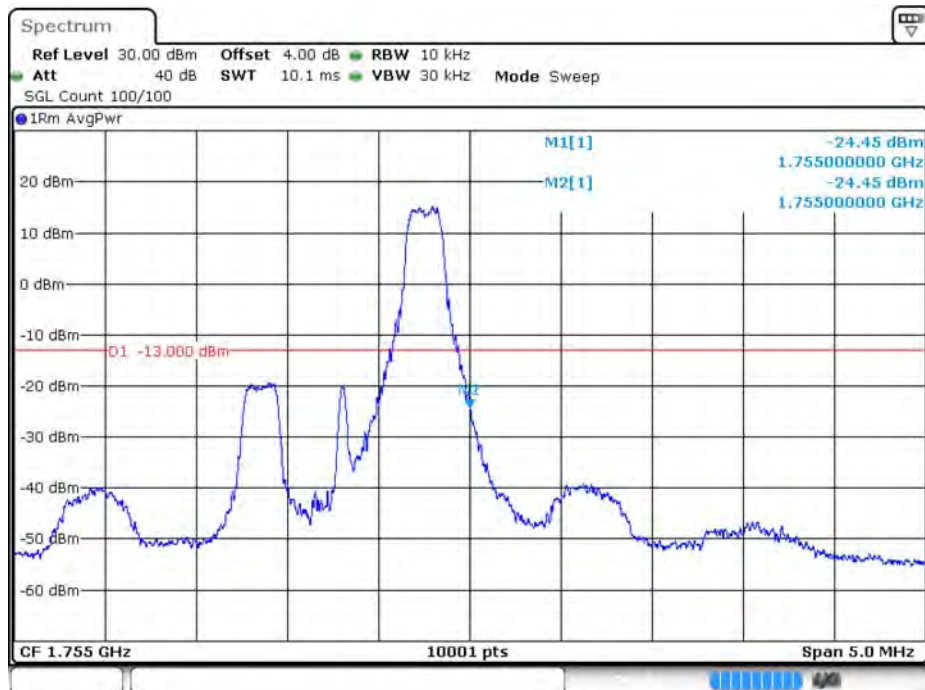
Date: 16.DEC.2019 10:39:52

LTE_B4_CH20393_1.4M_QPSK_6RB0



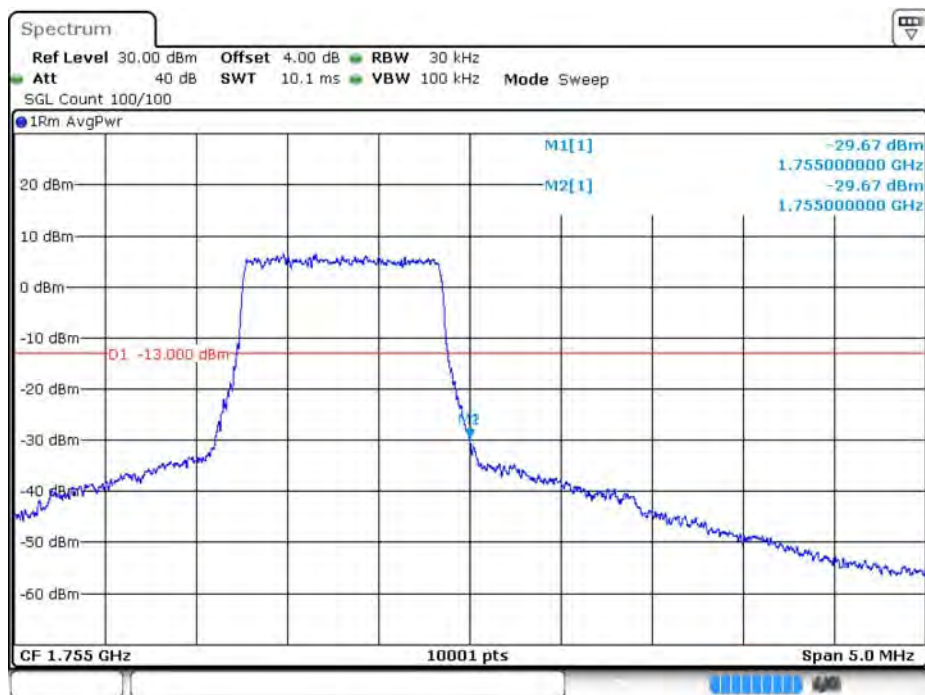
Date: 16.DEC.2019 10:37:34

LTE_B4_CH20393_1.4M_16-QAM_1RB5



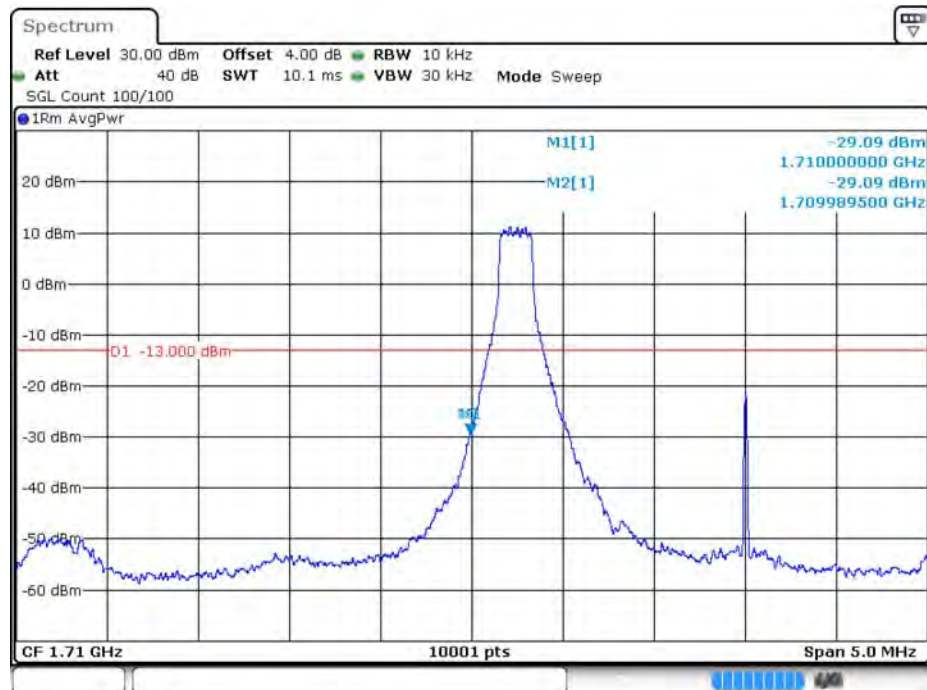
Date: 16.DEC.2019 10:39:34

LTE_B4_CH20393_1.4M_16-QAM_6RB0



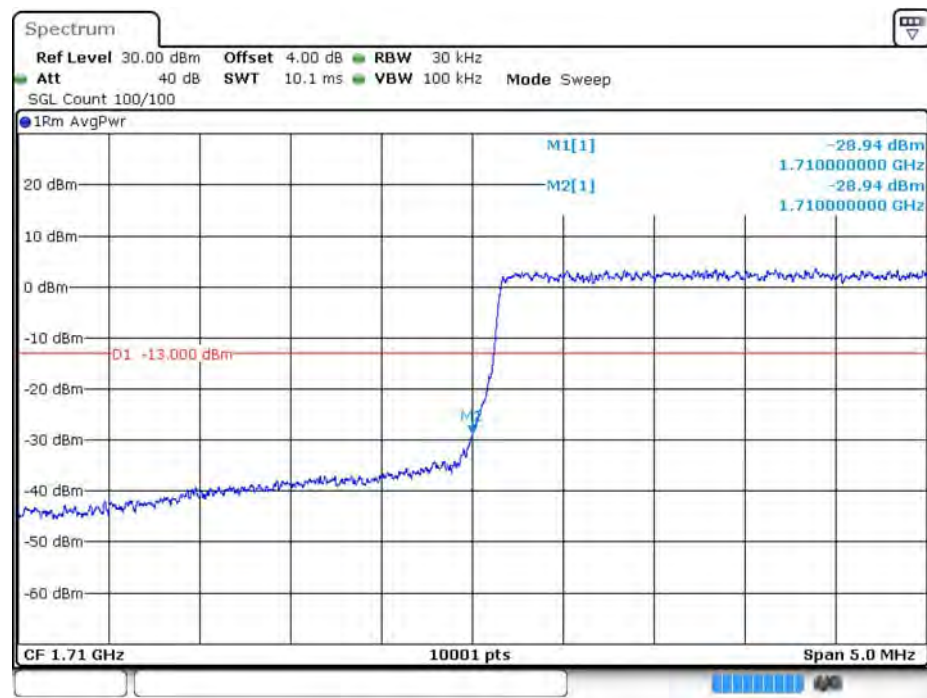
Date: 16.DEC.2019 10:37:17

LTE_B4_CH19965_3M_QPSK_1RB0



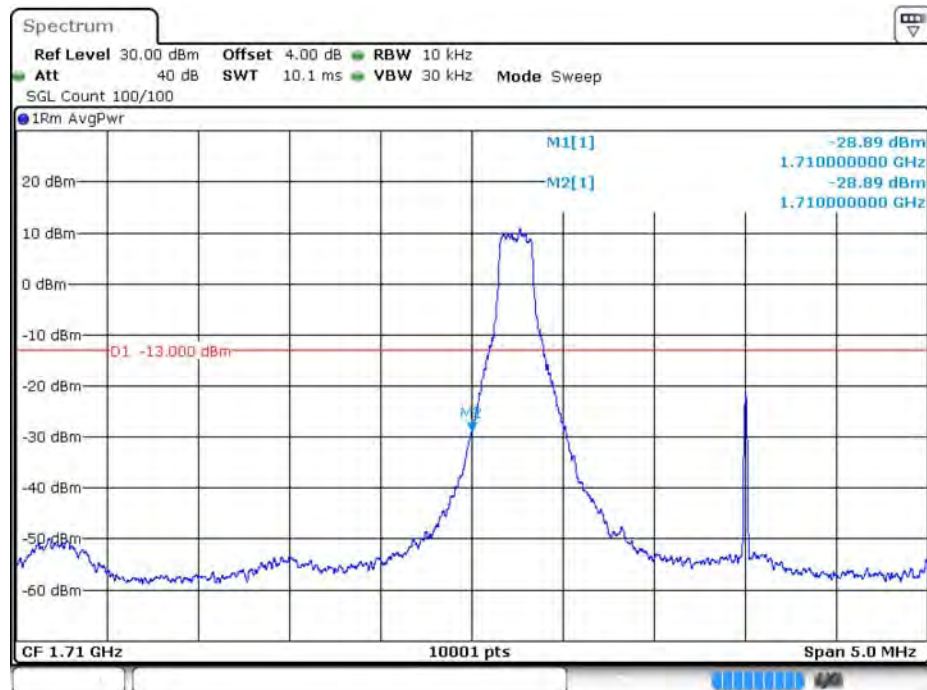
Date: 16.DEC.2019 10:55:14

LTE_B4_CH19965_3M_QPSK_15RB0

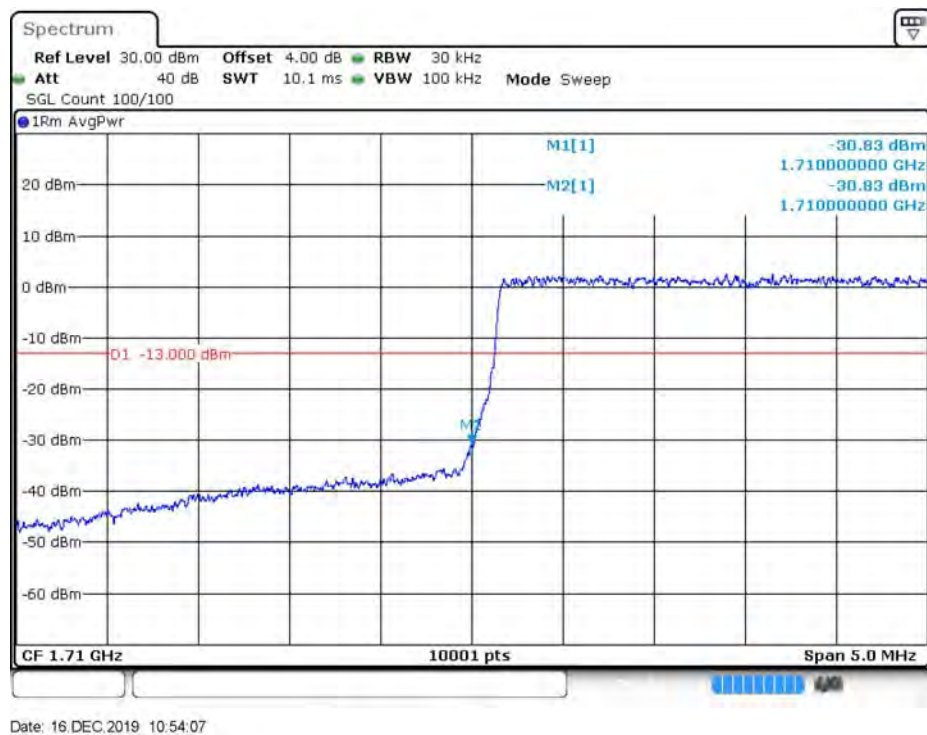


Date: 16.DEC.2019 10:53:44

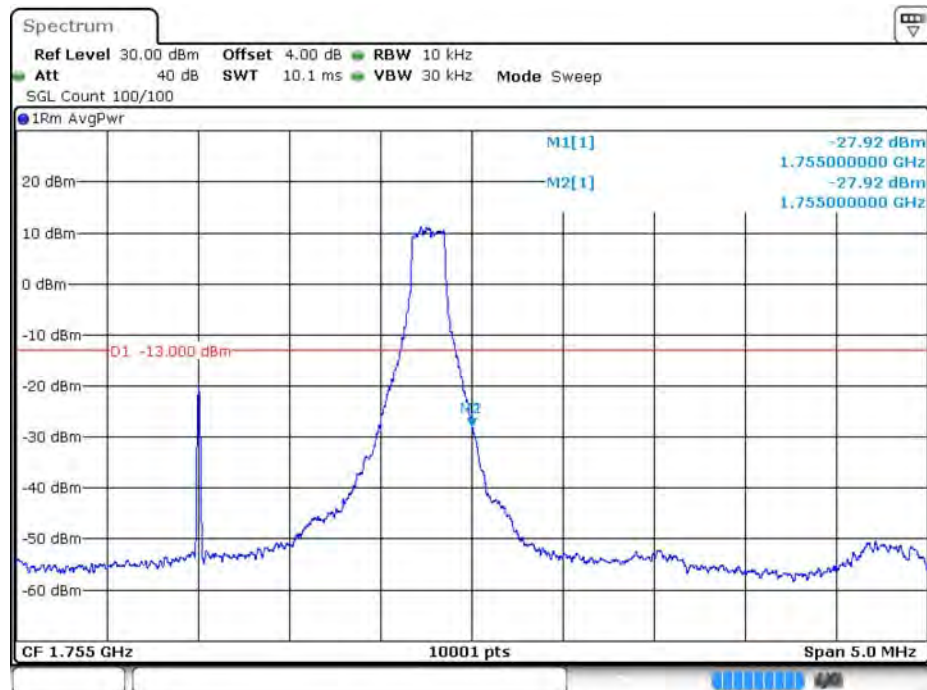
LTE_B4_CH19965_3M_16-QAM_1RB0



LTE_B4_CH19965_3M_16-QAM_15RB0

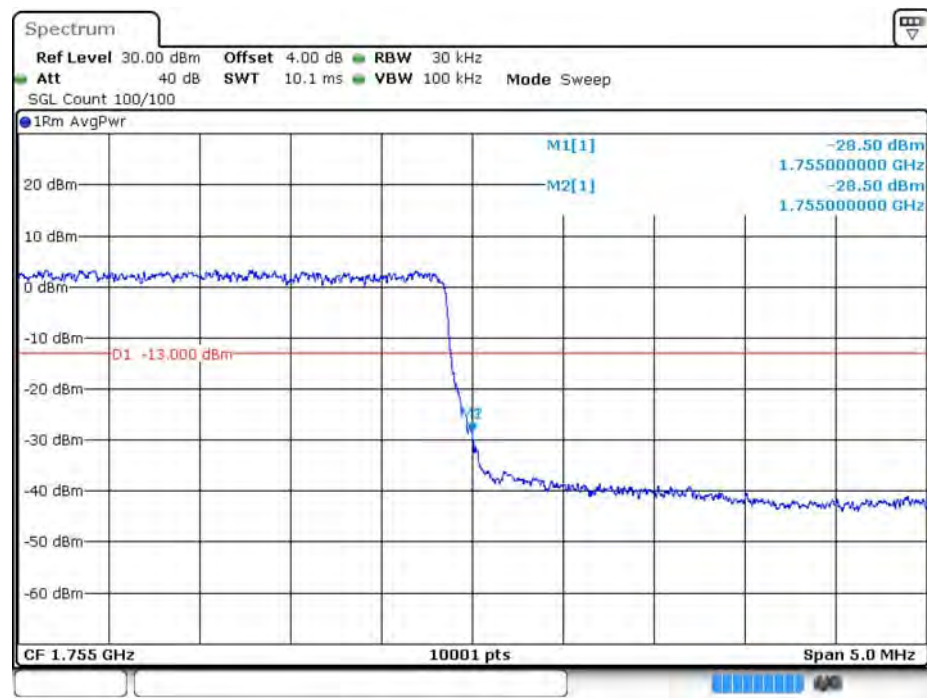


LTE_B4_CH20385_3M_QPSK_1RB14



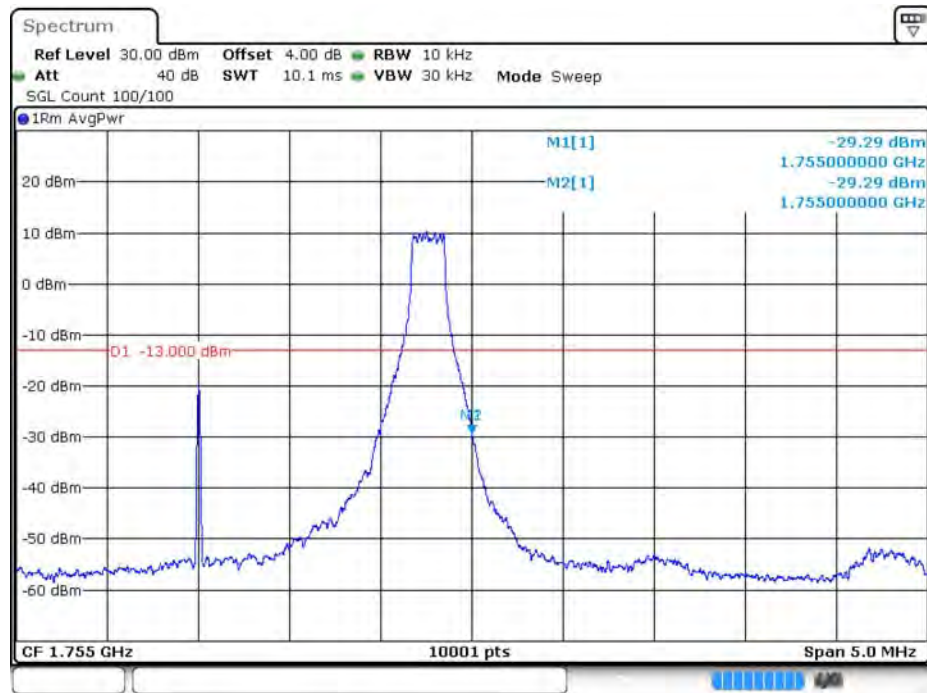
Date: 16 DEC 2019 10:48:41

LTE_B4_CH20385_3M_QPSK_15RB0



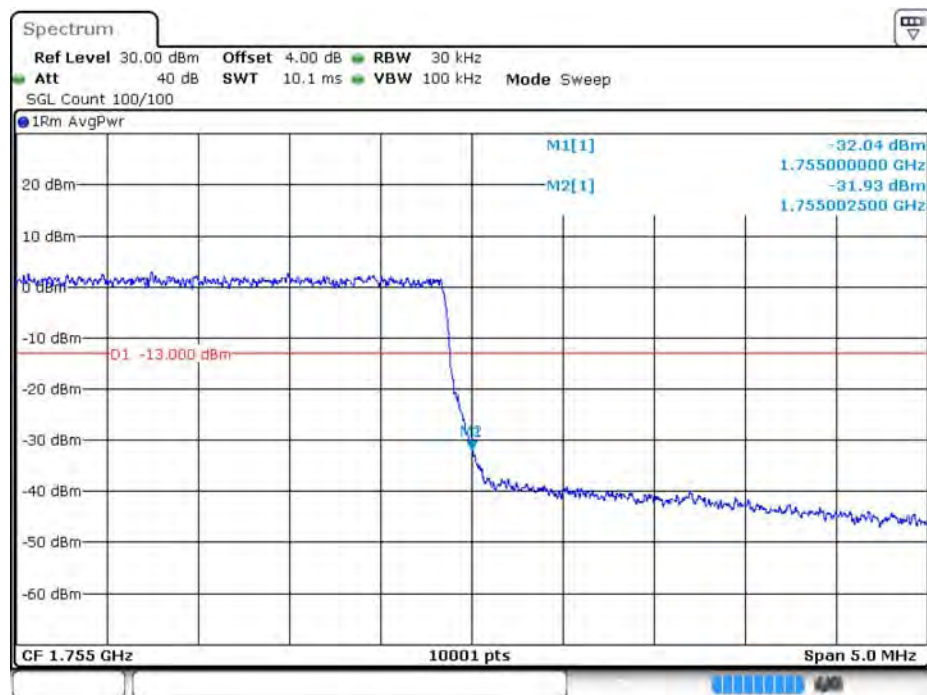
Date: 16 DEC 2019 10:50:50

LTE_B4_CH20385_3M_16-QAM_1RB14



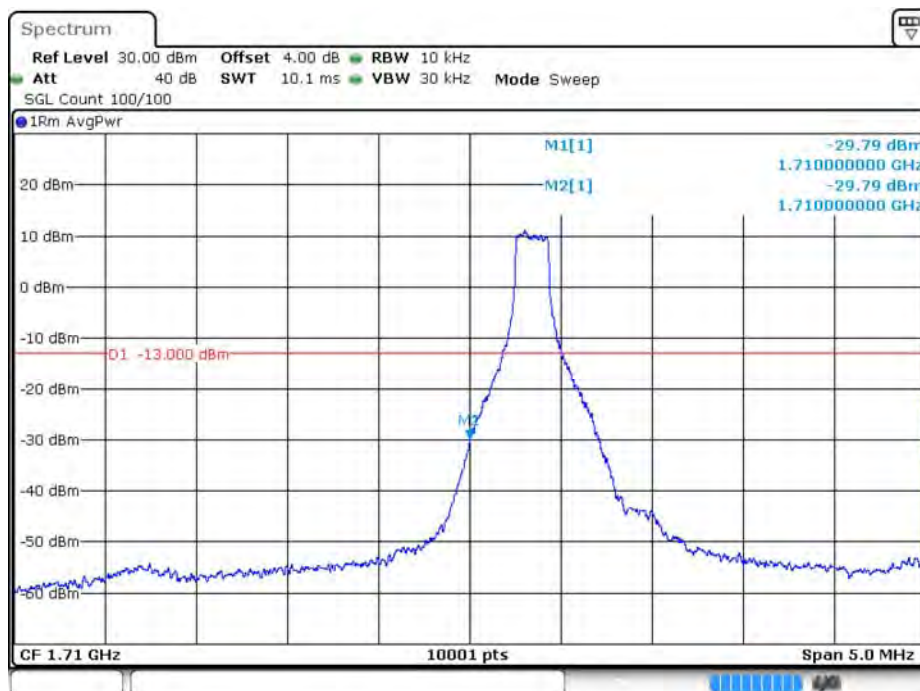
Date: 16.DEC.2019 10:49:34

LTE_B4_CH20385_3M_16-QAM_15RB0



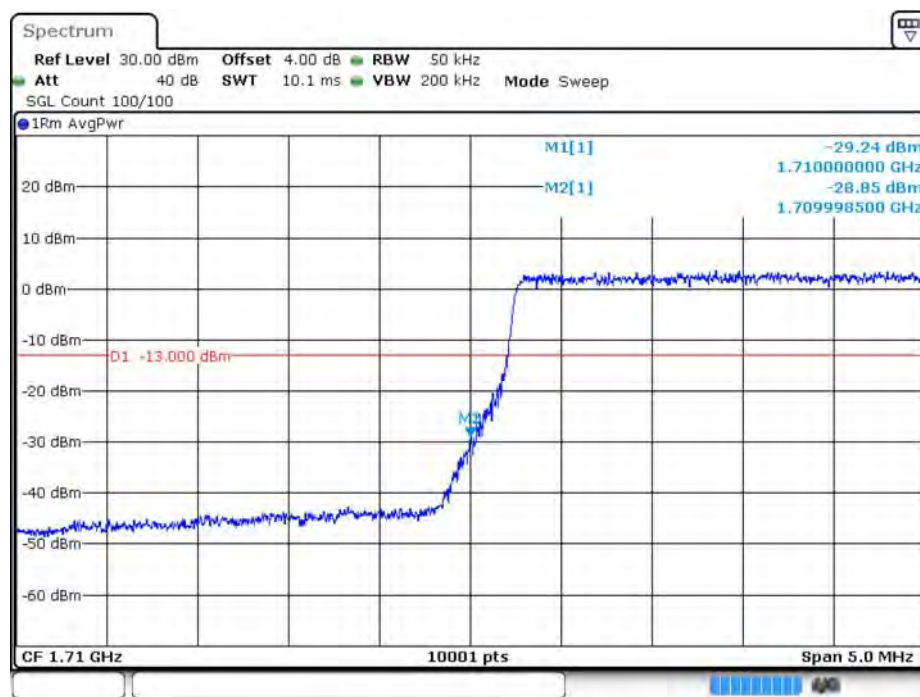
Date: 16.DEC.2019 10:50:10

LTE_B4_CH19975_5M_QPSK_1RB0



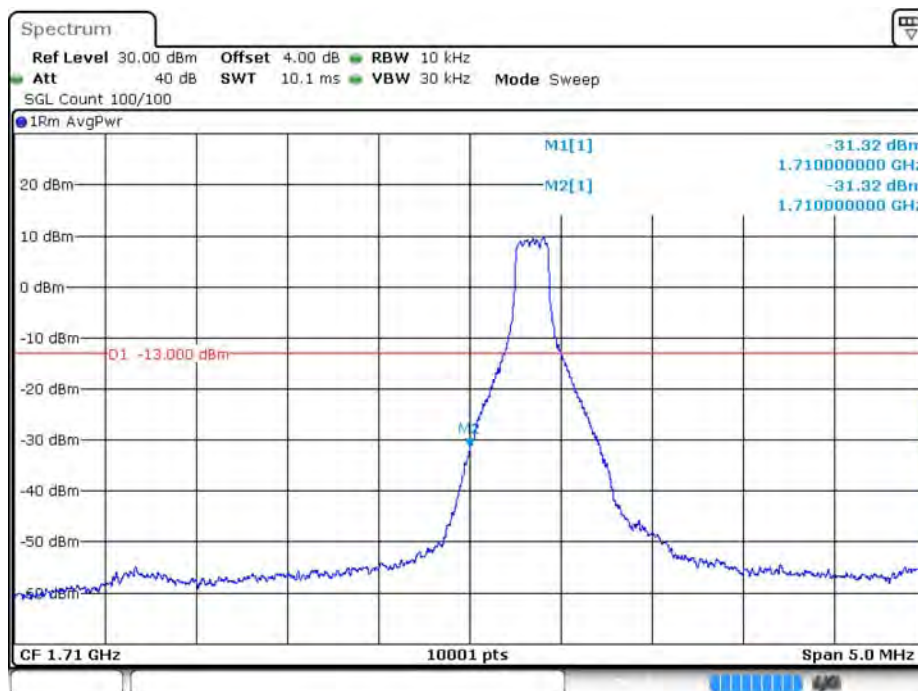
Date: 16.DEC.2019 11:16:07

LTE_B4_CH19975_5M_QPSK_25RB0

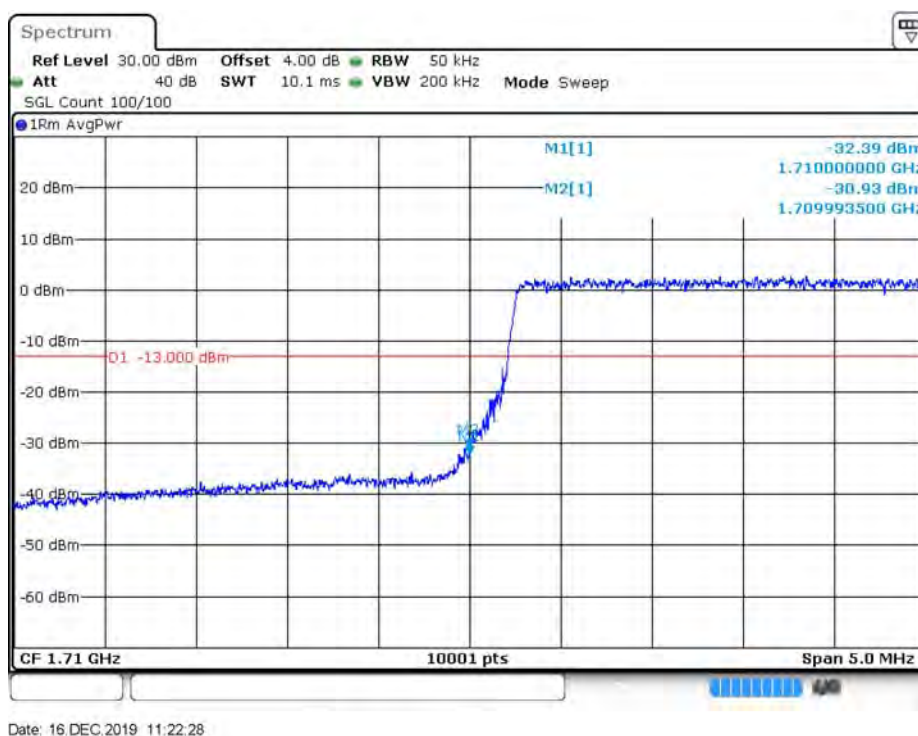


Date: 16.DEC.2019 11:27:44

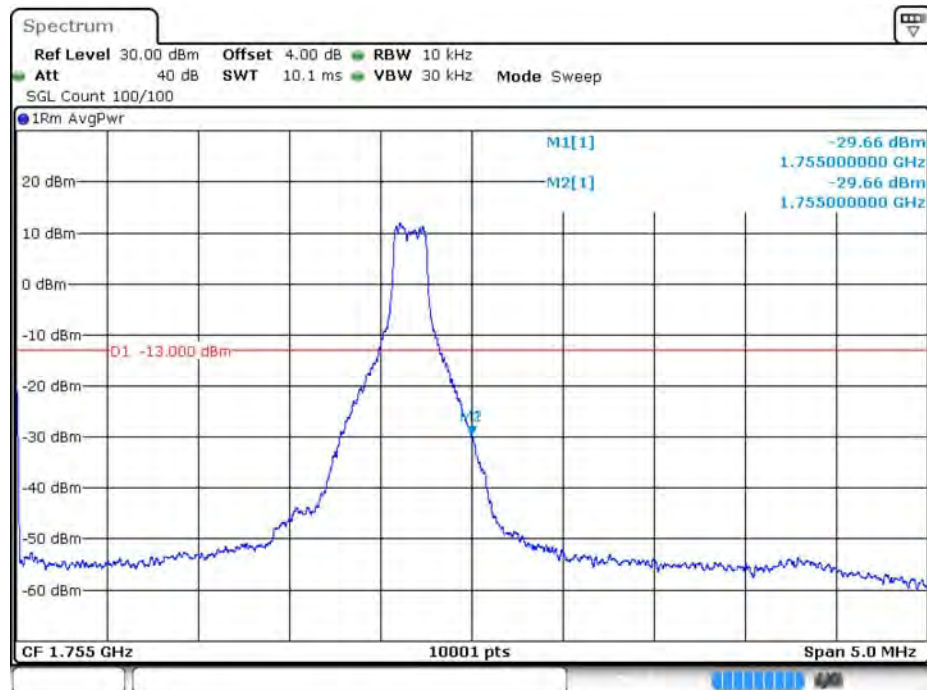
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LTE_B4_CH19975_5M_16-QAM_25RB0

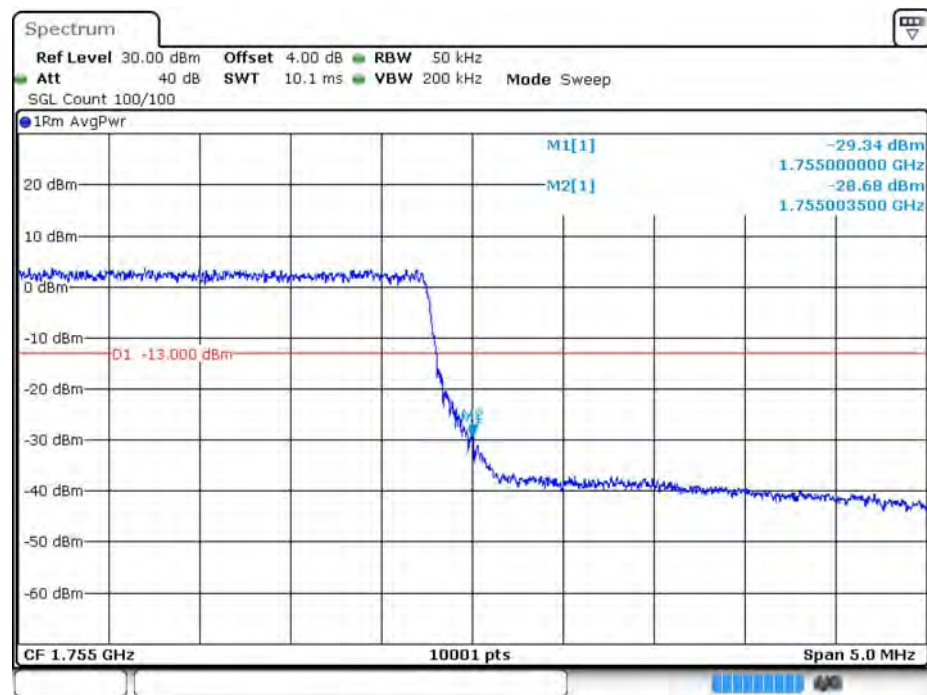


LTE_B4_CH20375_5M_QPSK_1RB24



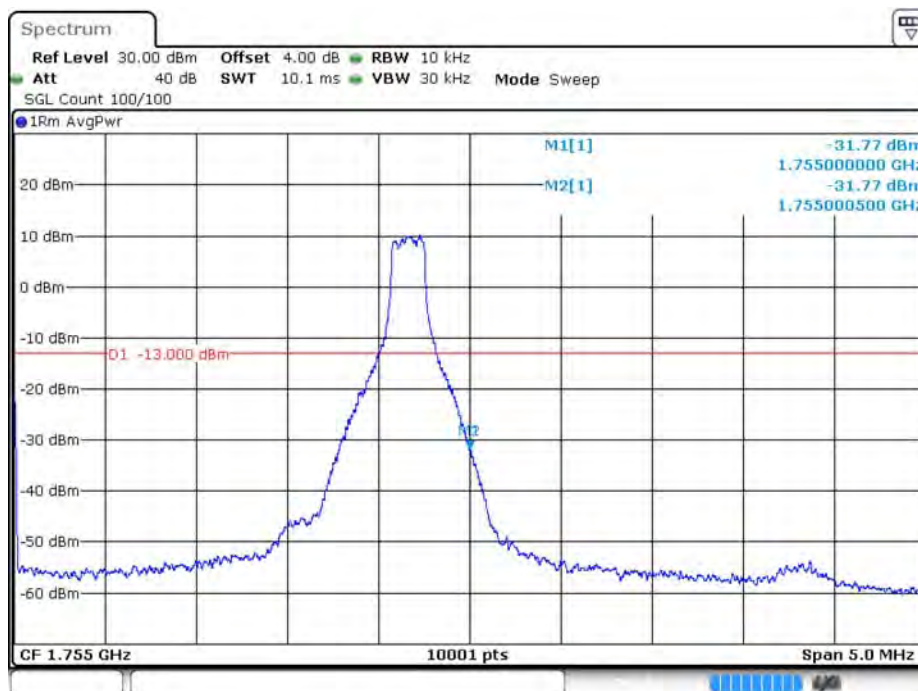
Date: 16 DEC 2019 11:59:47

LTE_B4_CH20375_5M_QPSK_25RB0



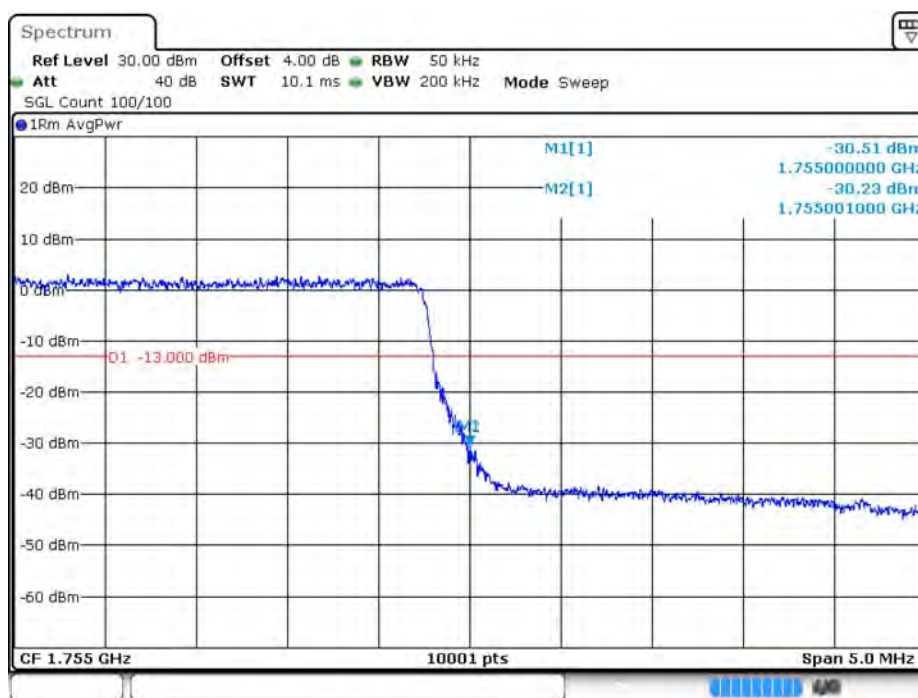
Date: 16 DEC 2019 11:40:05

LTE_B4_CH20375_5M_16-QAM_1RB24



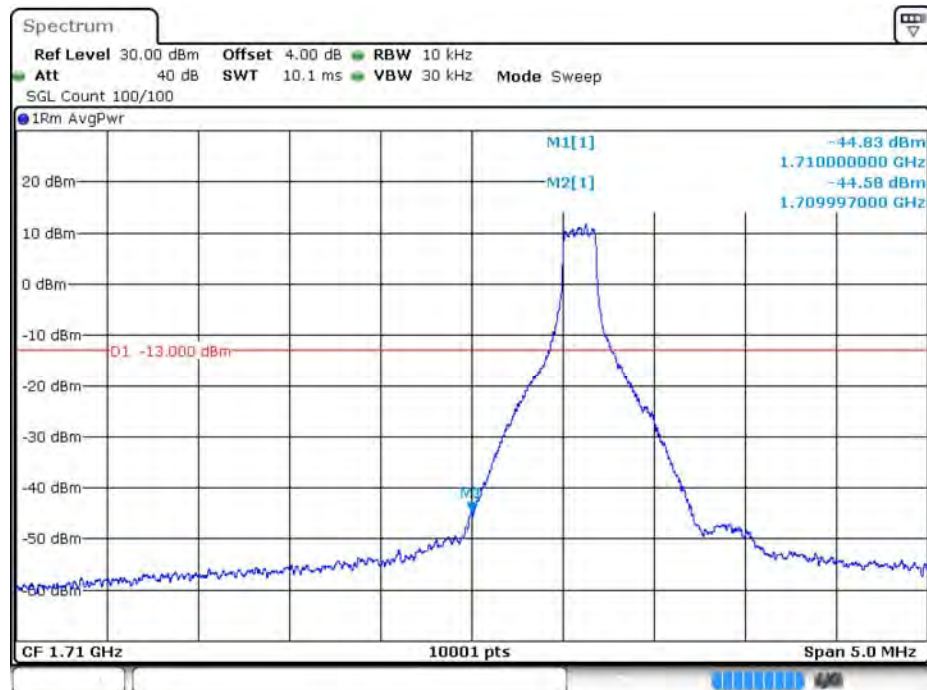
Date: 16.DEC.2019 11:59:13

LTE_B4_CH20375_5M_16-QAM_25RB0



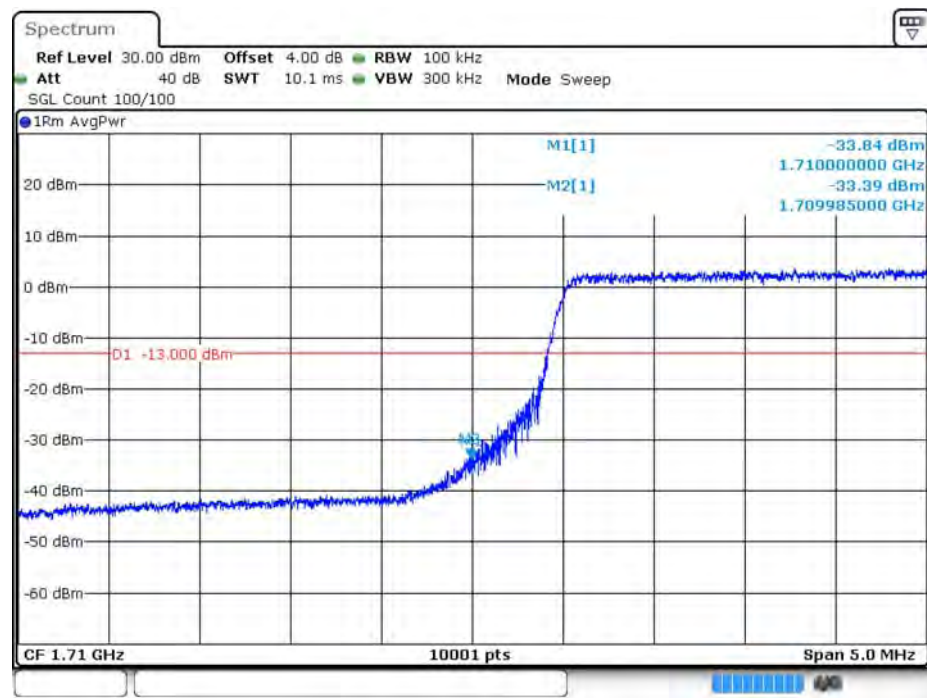
Date: 16.DEC.2019 11:48:42

LTE_B4_CH20000_10M_QPSK_1RB0



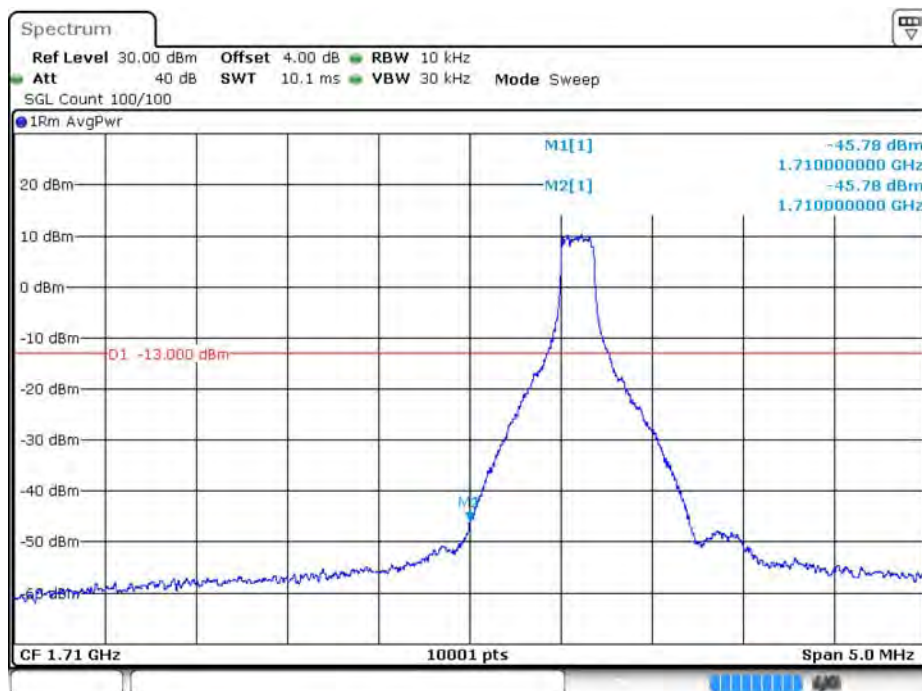
Date: 16.DEC.2019 13:42:04

LTE_B4_CH20000_10M_QPSK_50RB0



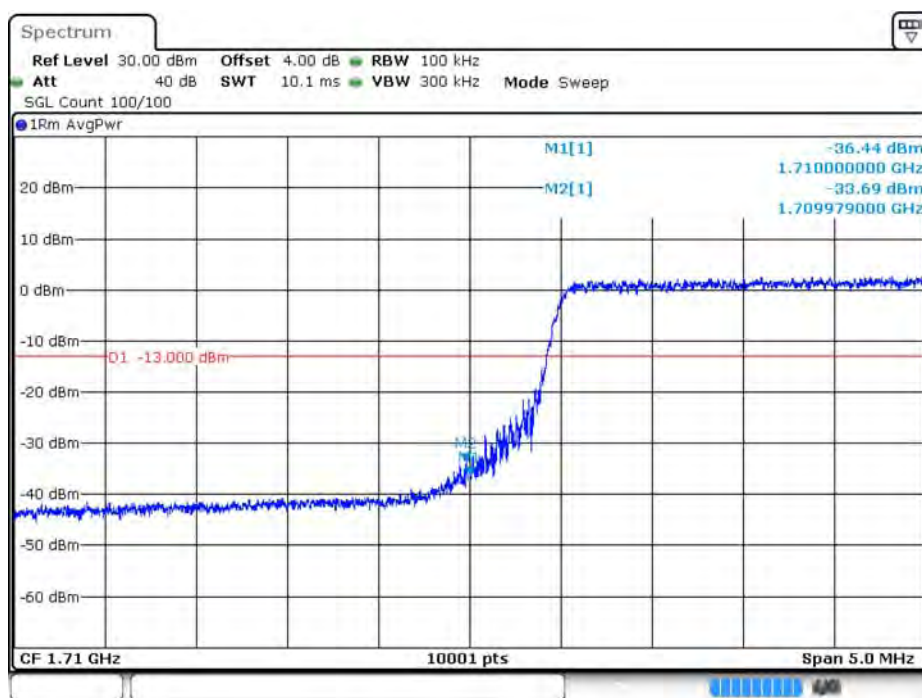
Date: 16.DEC.2019 13:26:00

LTE_B4_CH20000_10M_16-QAM_1RB0



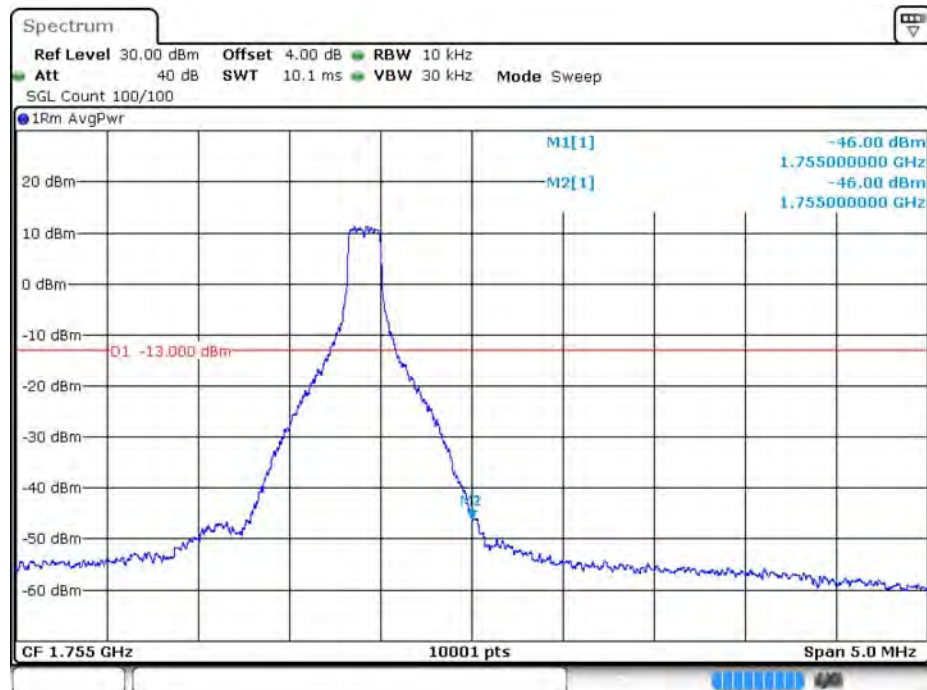
Date: 16.DEC.2019 13:41:32

LTE_B4_CH20000_10M_16-QAM_50RB0



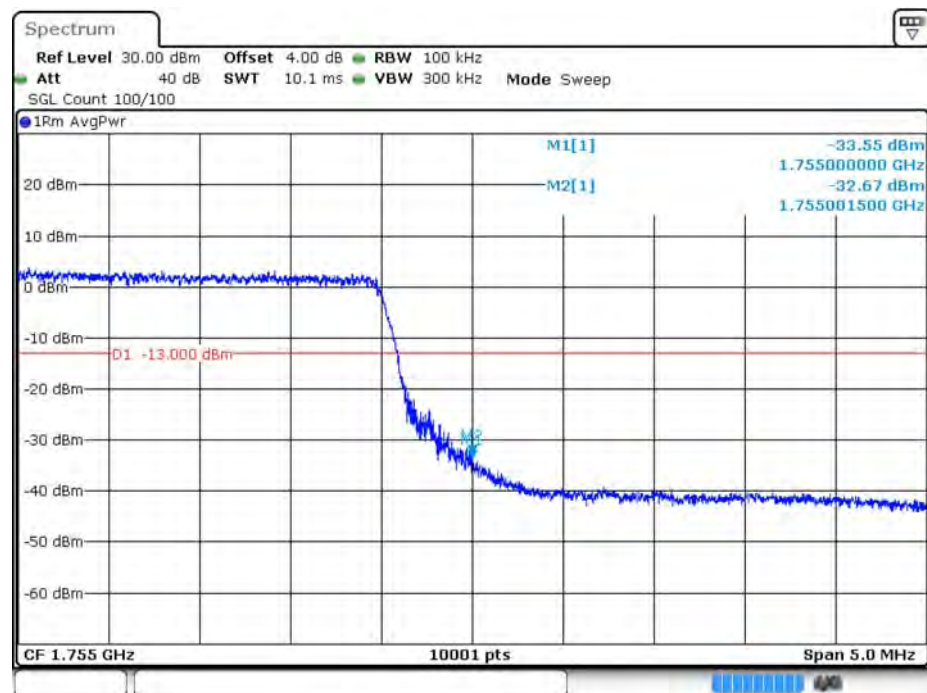
Date: 16.DEC.2019 13:40:58

LTE_B4_CH20350_10M_QPSK_1RB49



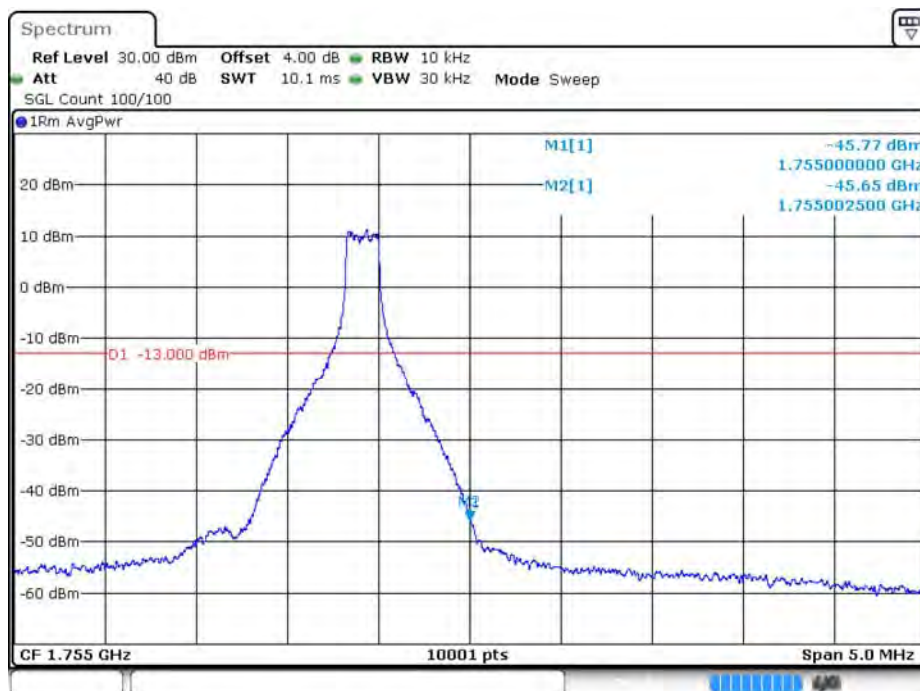
Date: 16 DEC 2019 13:12:04

LTE_B4_CH20350_10M_QPSK_50RB0



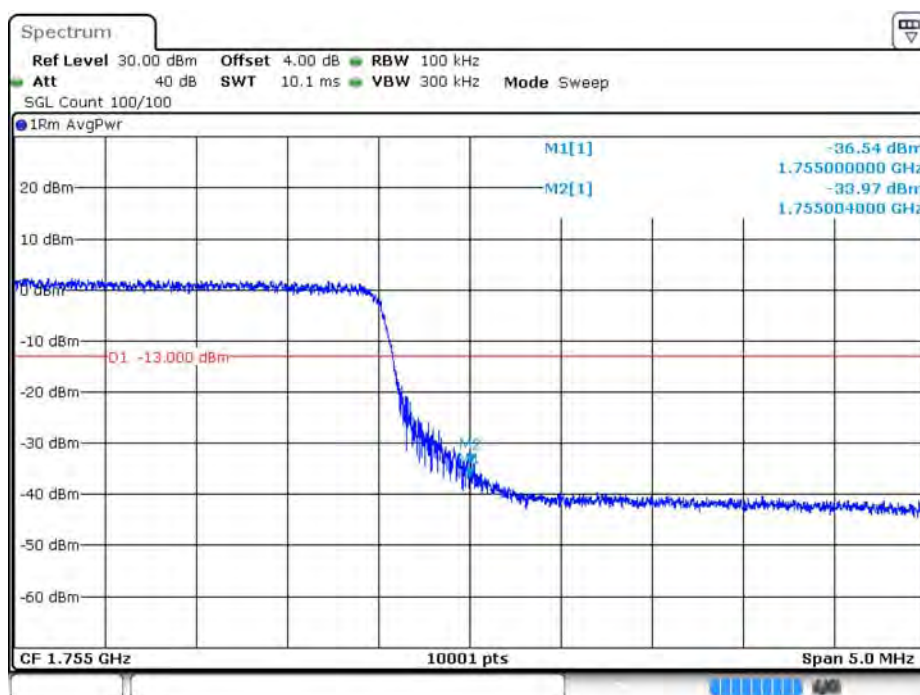
Date: 16 DEC 2019 13:15:14

LTE_B4_CH20350_10M_16-QAM_1RB49



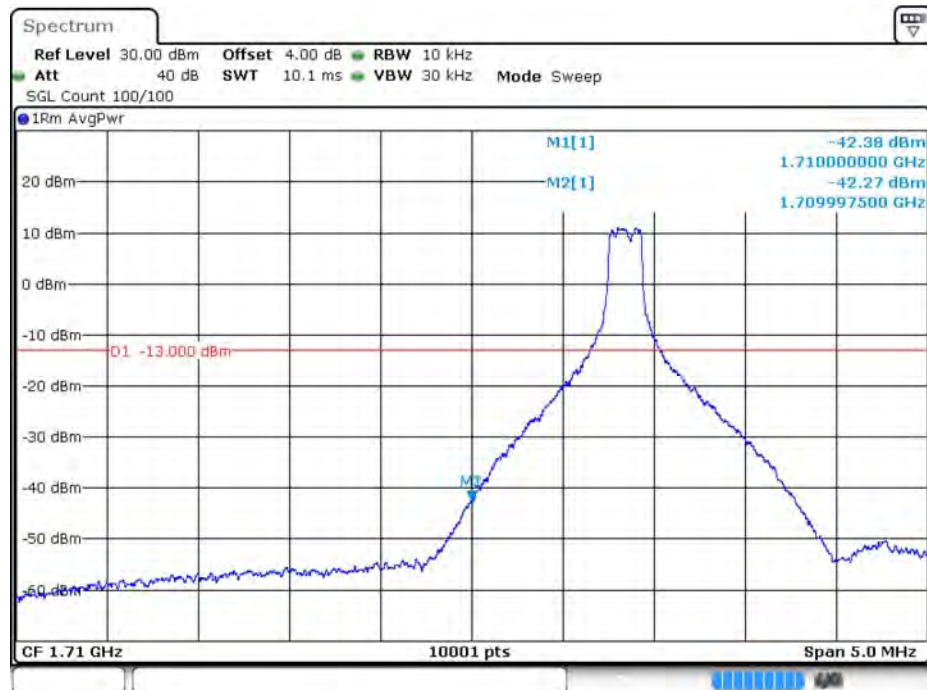
Date: 16 DEC. 2019 13:12:26

LTE_B4_CH20350_10M_16-QAM_50RB0



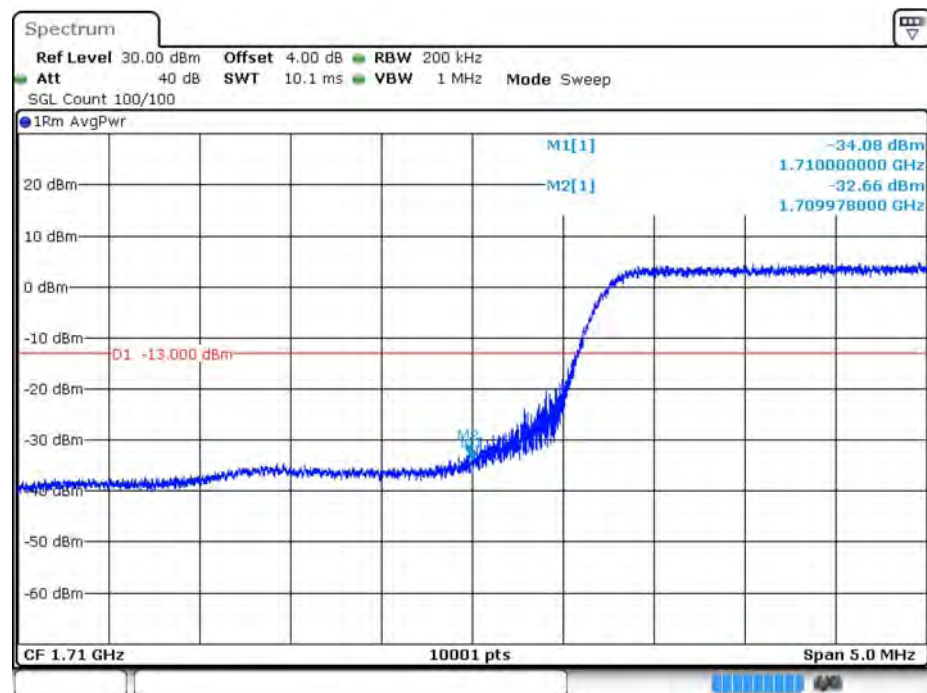
Date: 16 DEC. 2019 13:13:51

LTE_B4_CH20025_15M_QPSK_1RB0



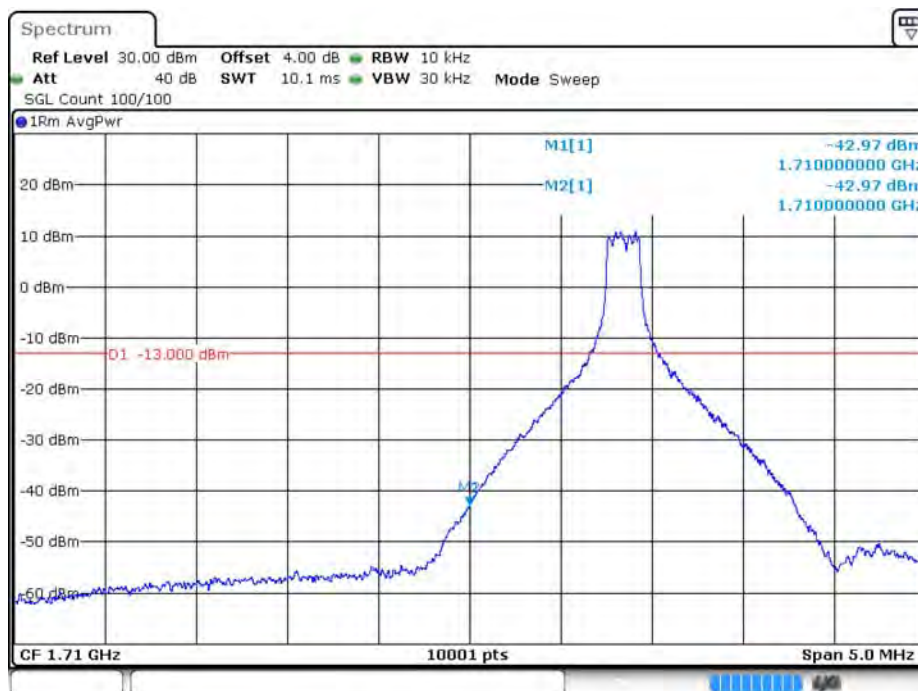
Date: 16.DEC.2019 13:50:17

LTE_B4_CH20025_15M_QPSK_75RB0



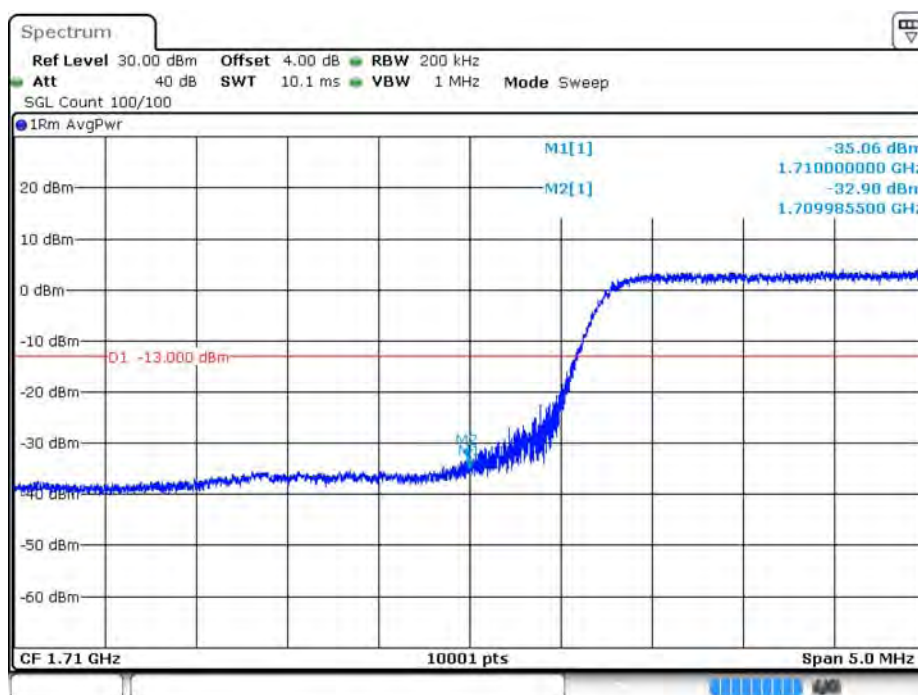
Date: 16.DEC.2019 13:51:36

LTE_B4_CH20025_15M_16-QAM_1RB0



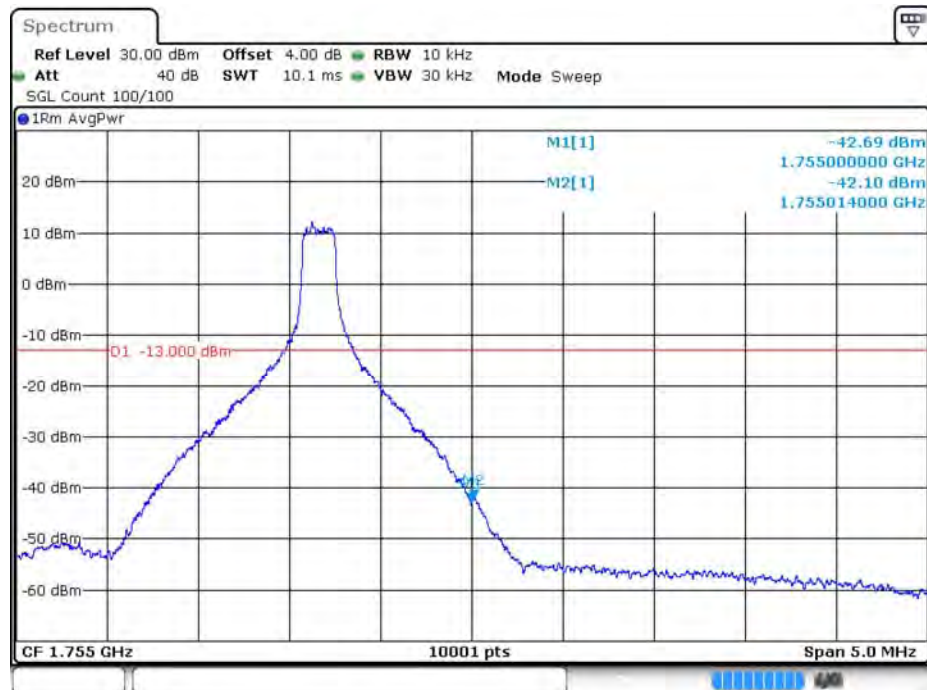
Date: 16.DEC.2019 13:50:49

LTE_B4_CH20025_15M_16-QAM_75RB0



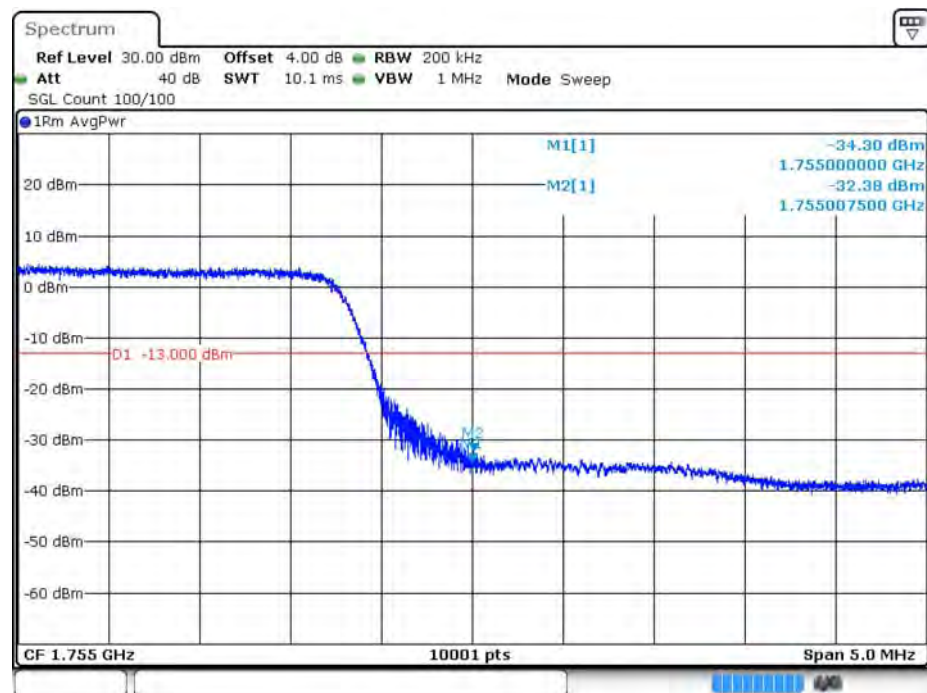
Date: 16.DEC.2019 13:51:16

LTE_B4_CH20325_15M_QPSK_1RB74



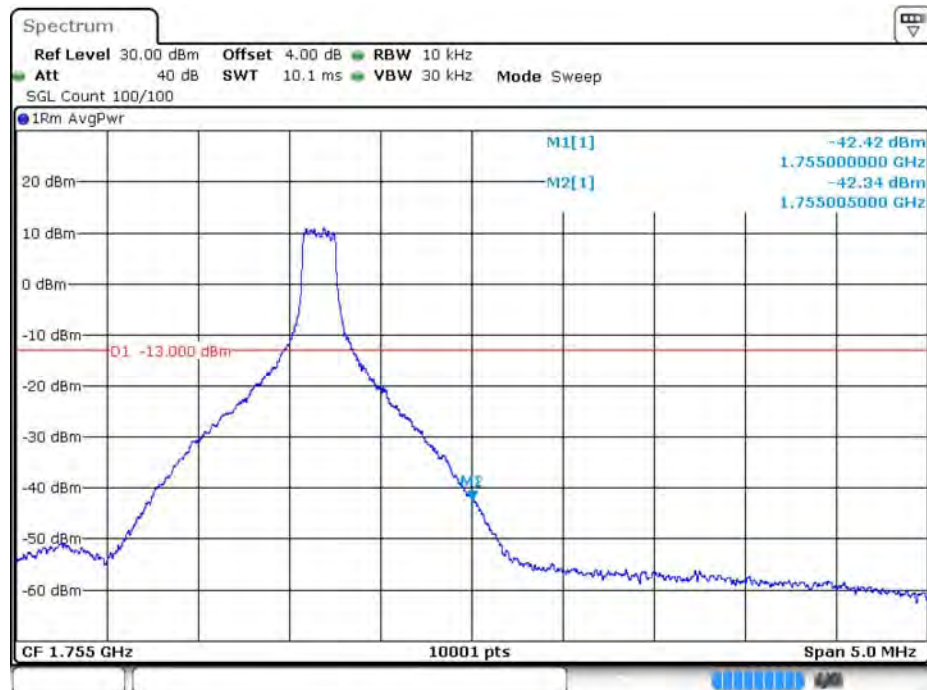
Date: 16 DEC 2019 13:54:22

LTE_B4_CH20325_15M_QPSK_75RB0



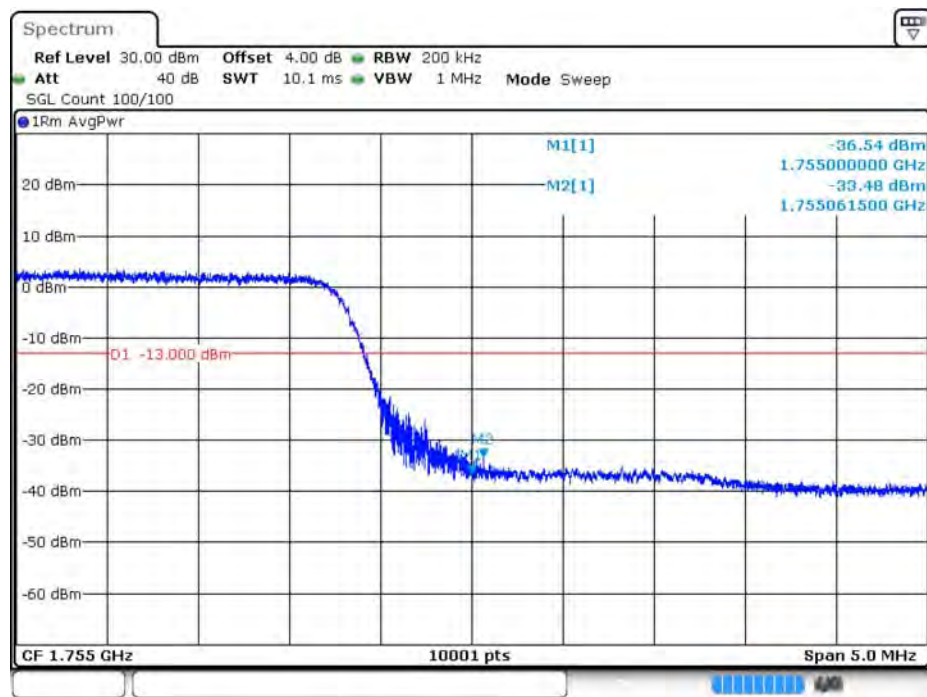
Date: 16 DEC 2019 13:52:59

LTE_B4_CH20325_15M_16-QAM_1RB74



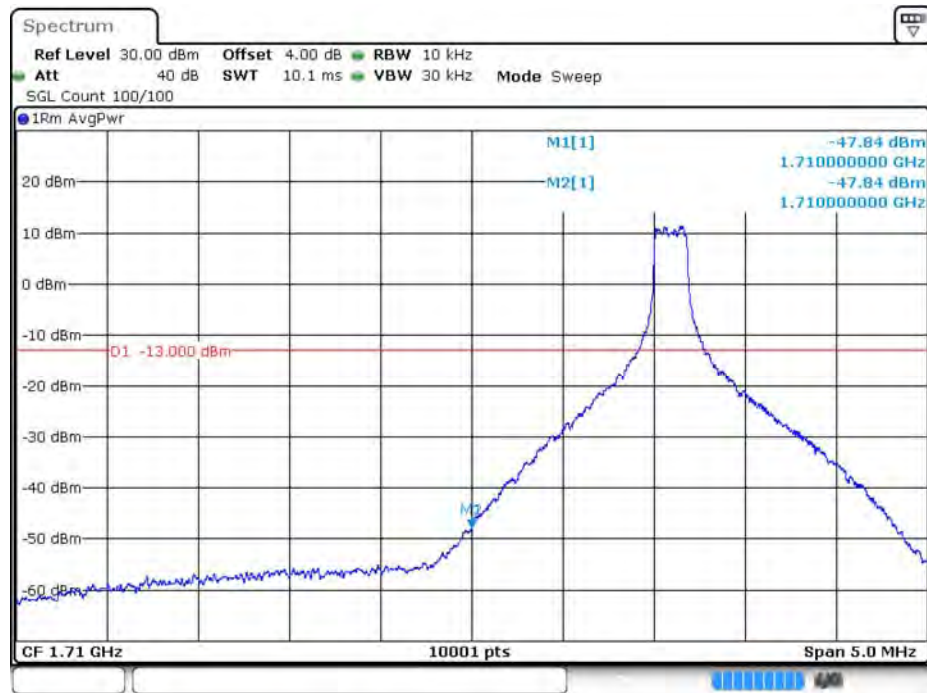
Date: 16.DEC.2019 13:53:46

LTE_B4_CH20325_15M_16-QAM_75RB0

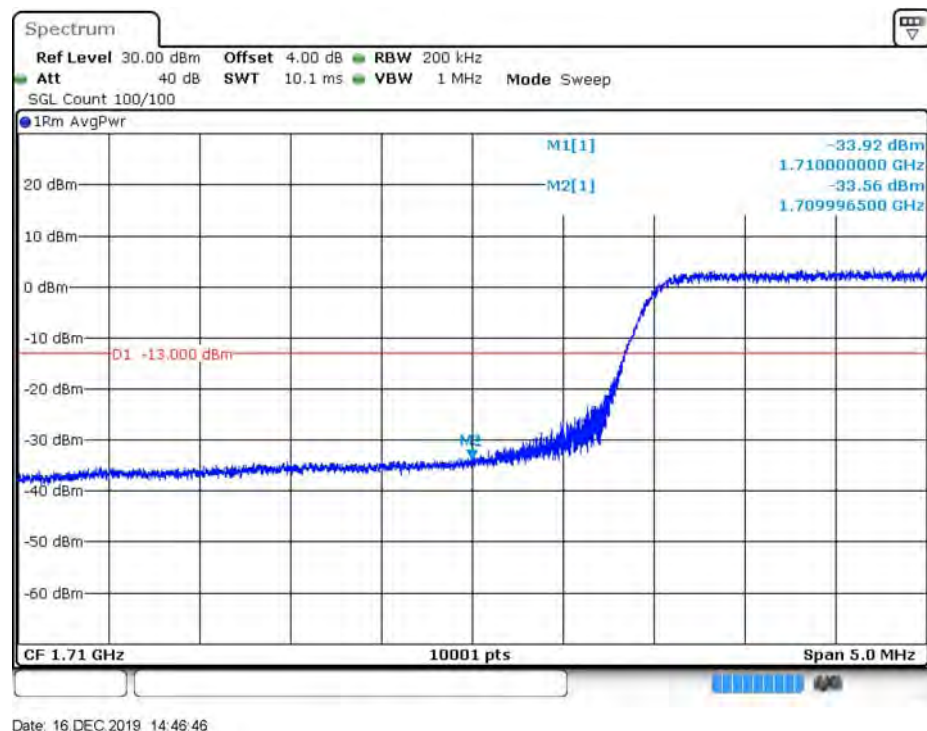


Date: 16.DEC.2019 13:53:17

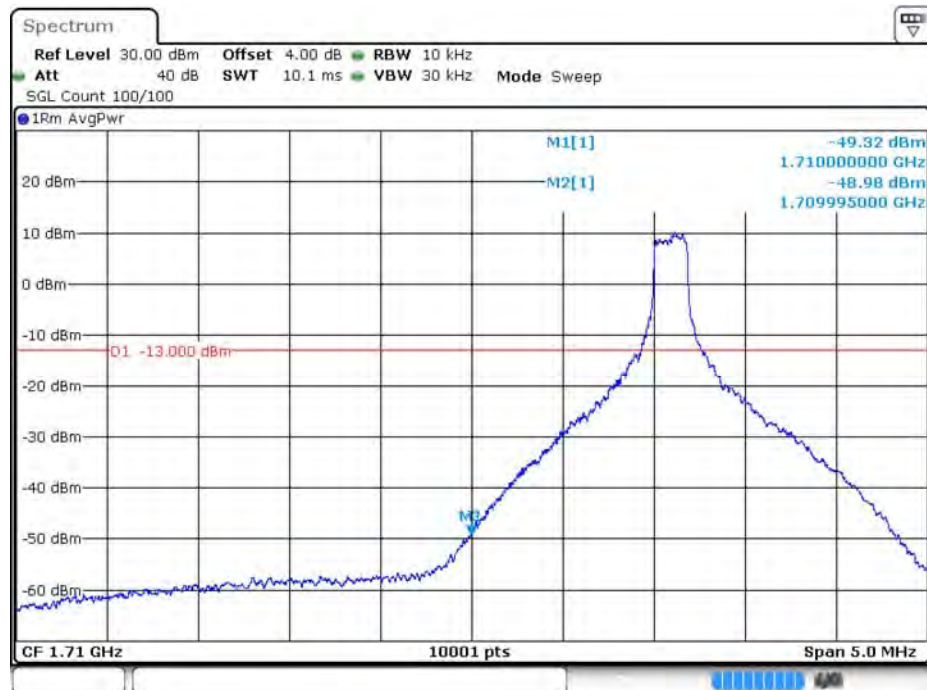
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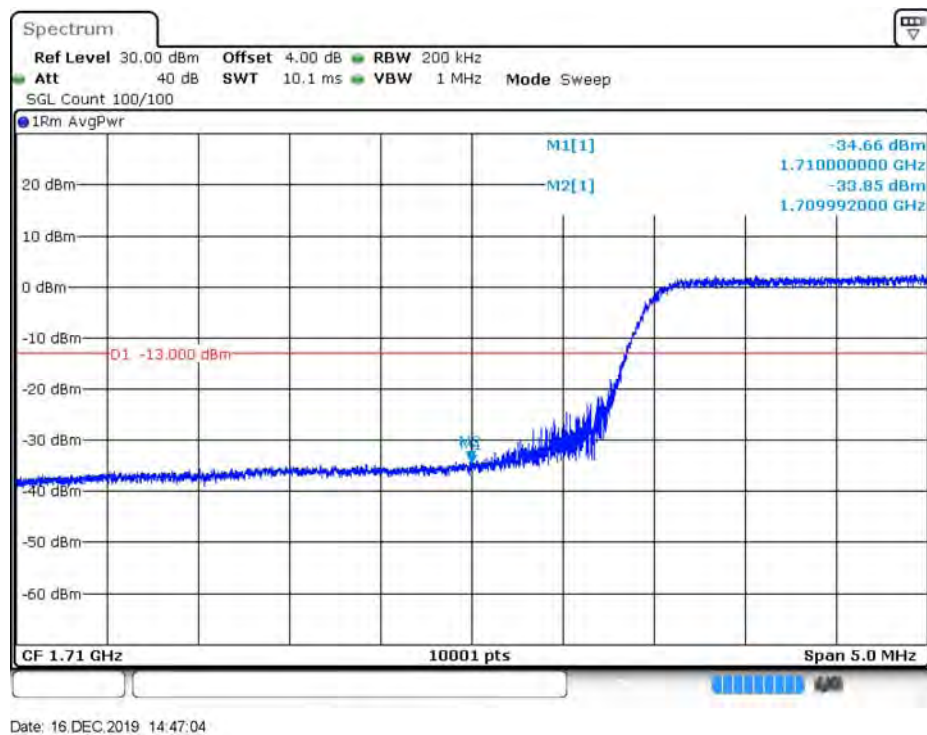
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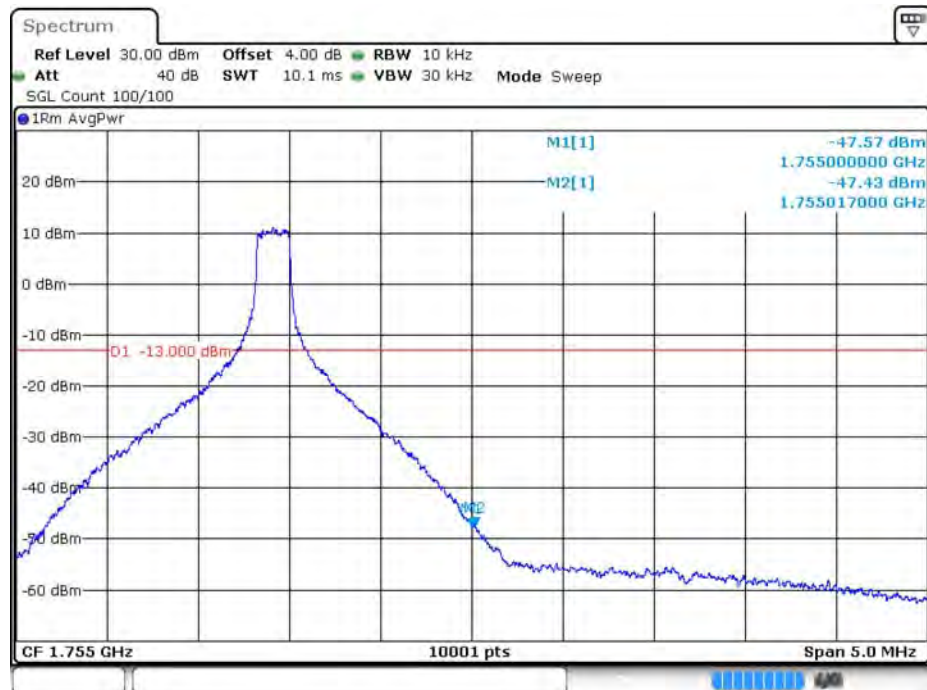
LTE_B4_CH20050_20M_16-QAM_1RB0



LTE_B4_CH20050_20M_16-QAM_100RB0

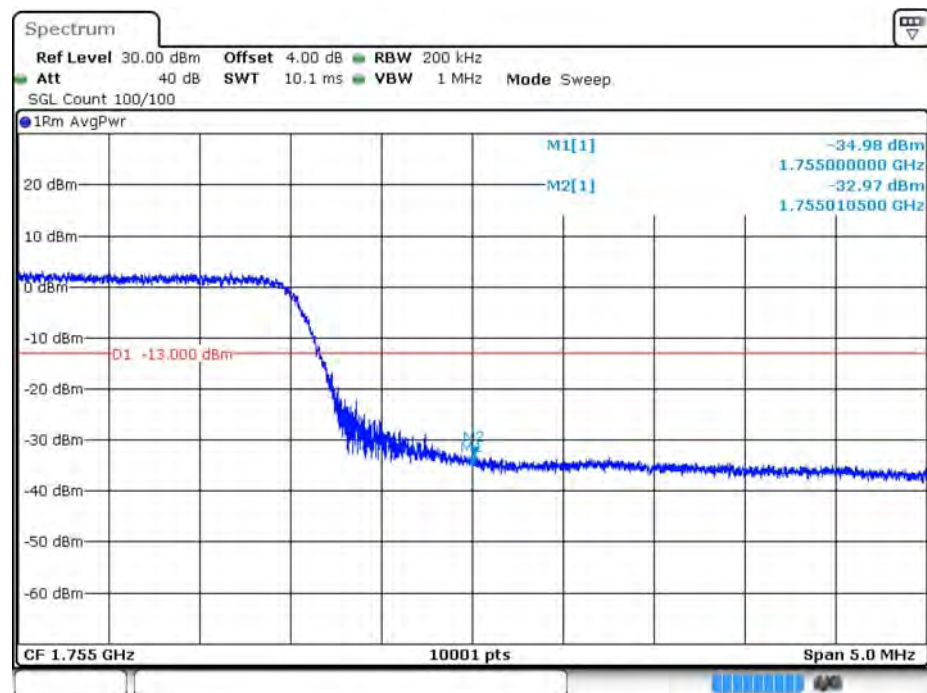


LTE_B4_CH20300_20M_QPSK_1RB99



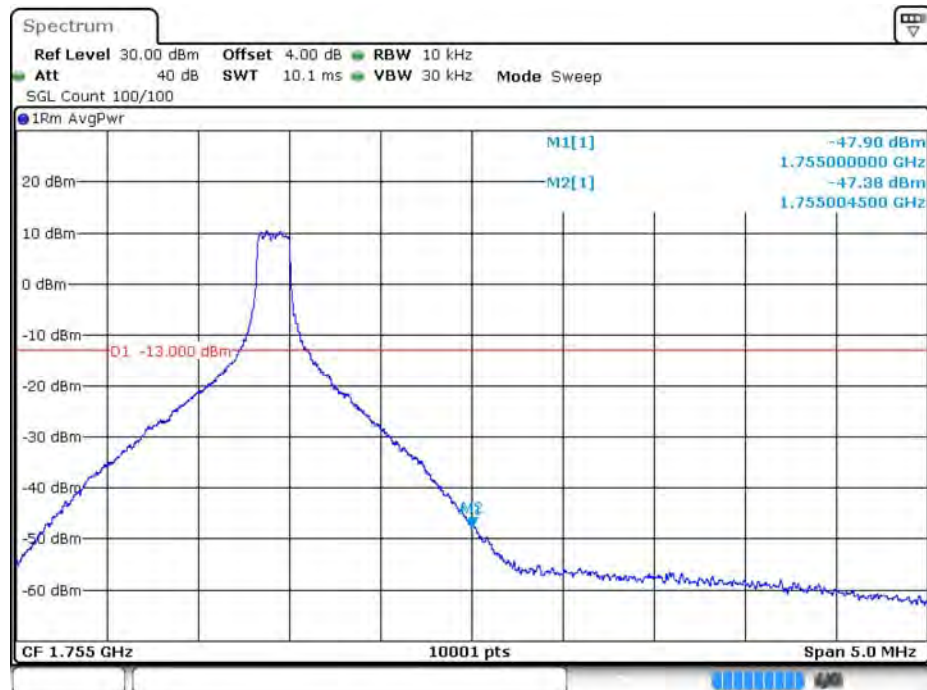
Date: 16 DEC. 2019 14:02:05

LTE_B4_CH20300_20M_QPSK_100RB0

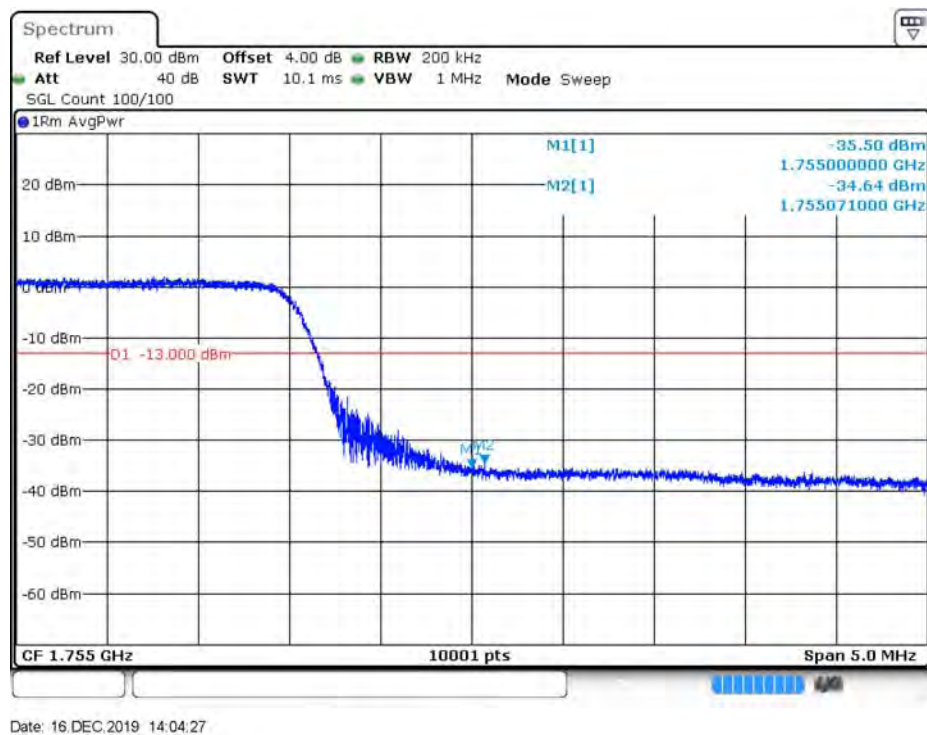


Date: 16 DEC. 2019 14:05:54

LTE_B4_CH20300_20M_16-QAM_1RB99

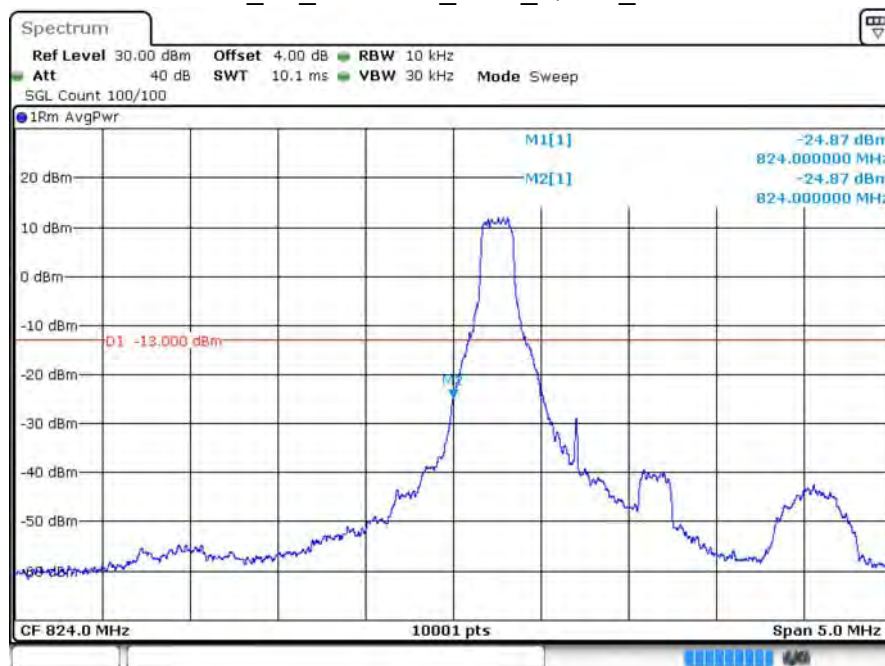


LTE_B4_CH20300_20M_16-QAM_100RB0



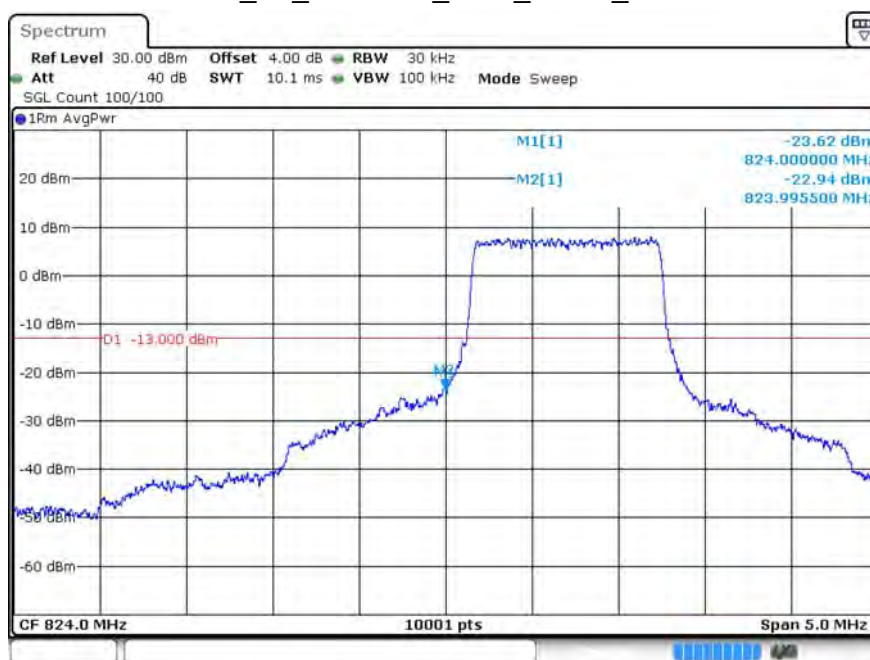
Product	Module		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2019/12/16	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	60%RH

LTE_B5_CH20407_1.4M_QPSK_1RB0



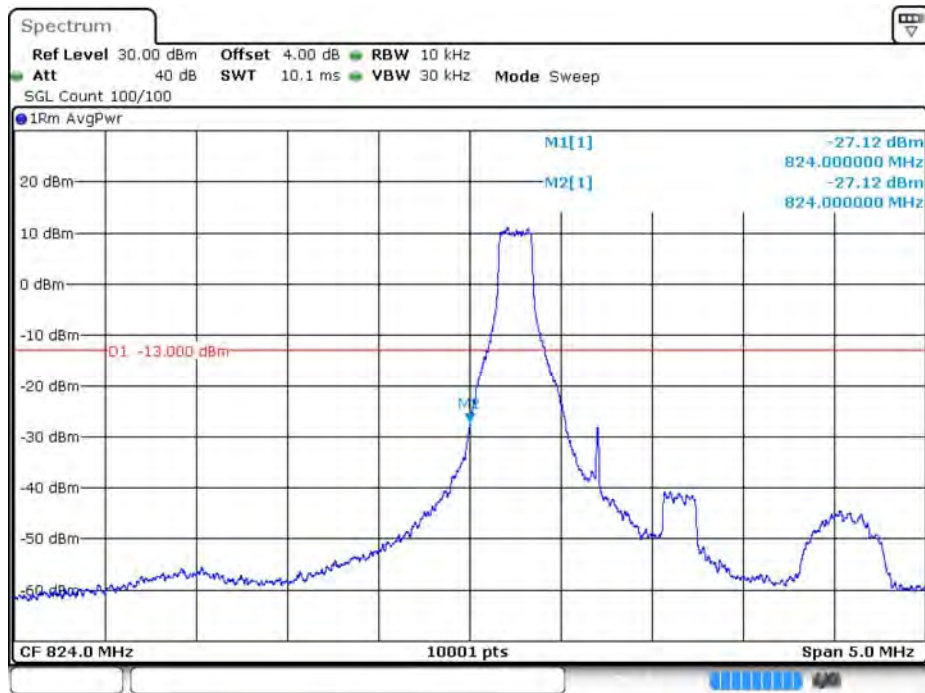
Date: 16 DEC 2019 16:19:20

LTE_B5_CH20407_1.4M_QPSK_6RB0

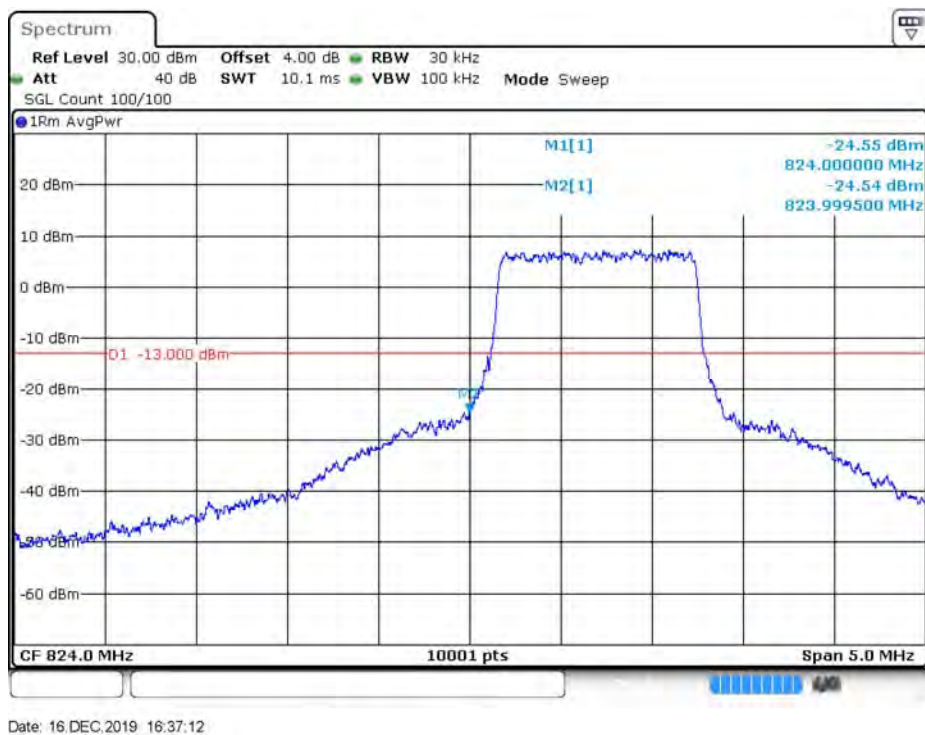


Date: 16 DEC 2019 16:37:34

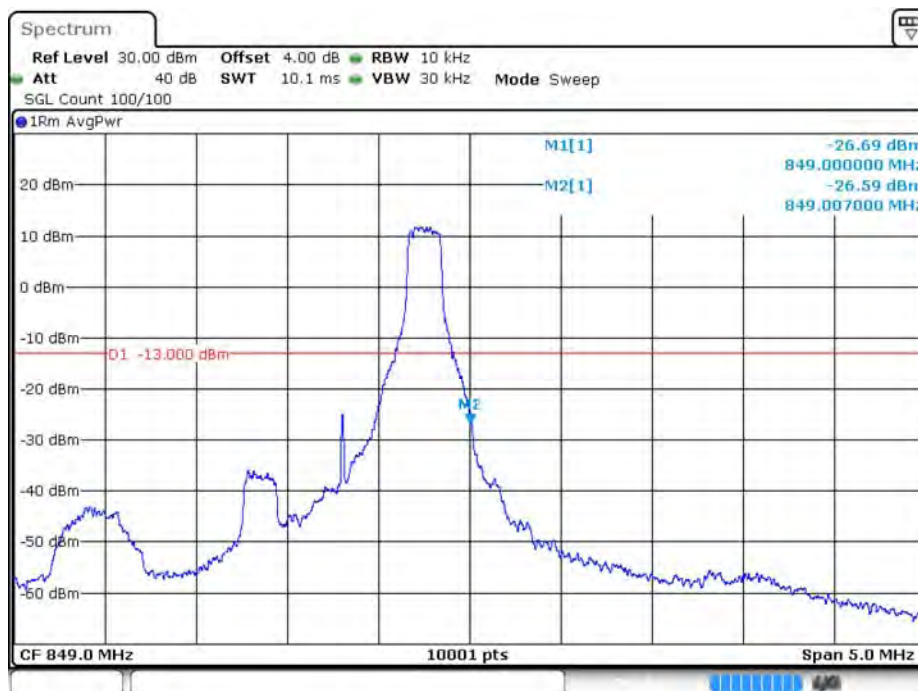
LTE_B5_CH20407_1.4M_16-QAM_1RB0



LTE_B5_CH20407_1.4M_16-QAM_6RB0

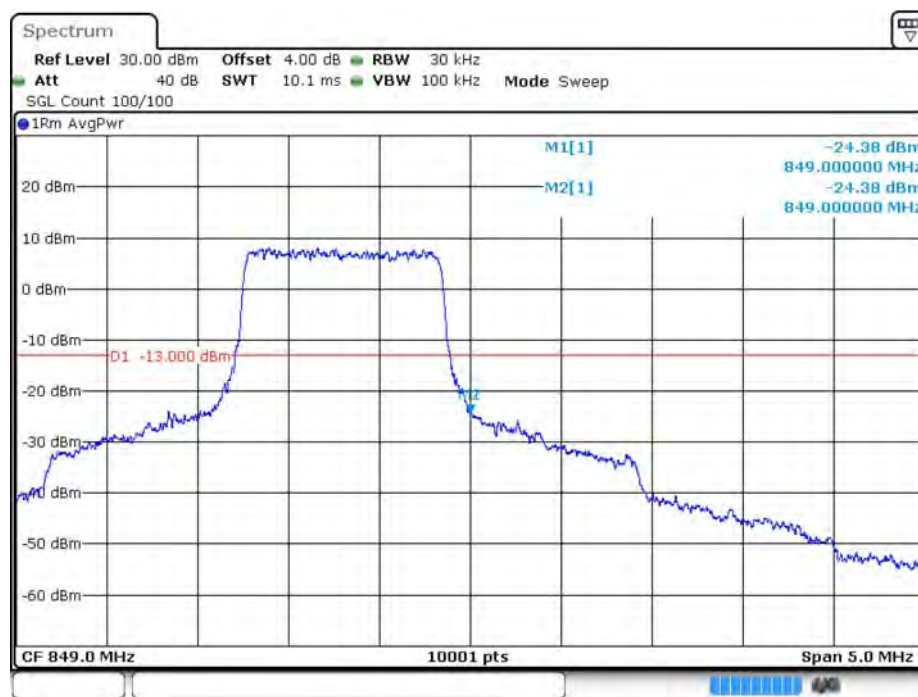


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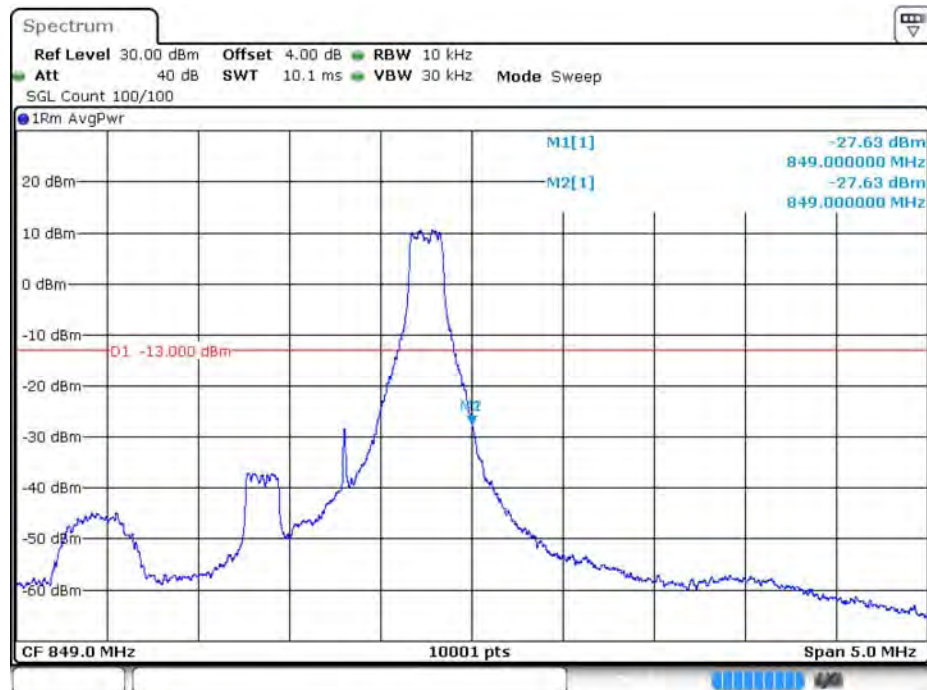
Date: 16.DEC.2019 16:46:51

LTE_B5_CH20643_1.4M_QPSK_6RB0

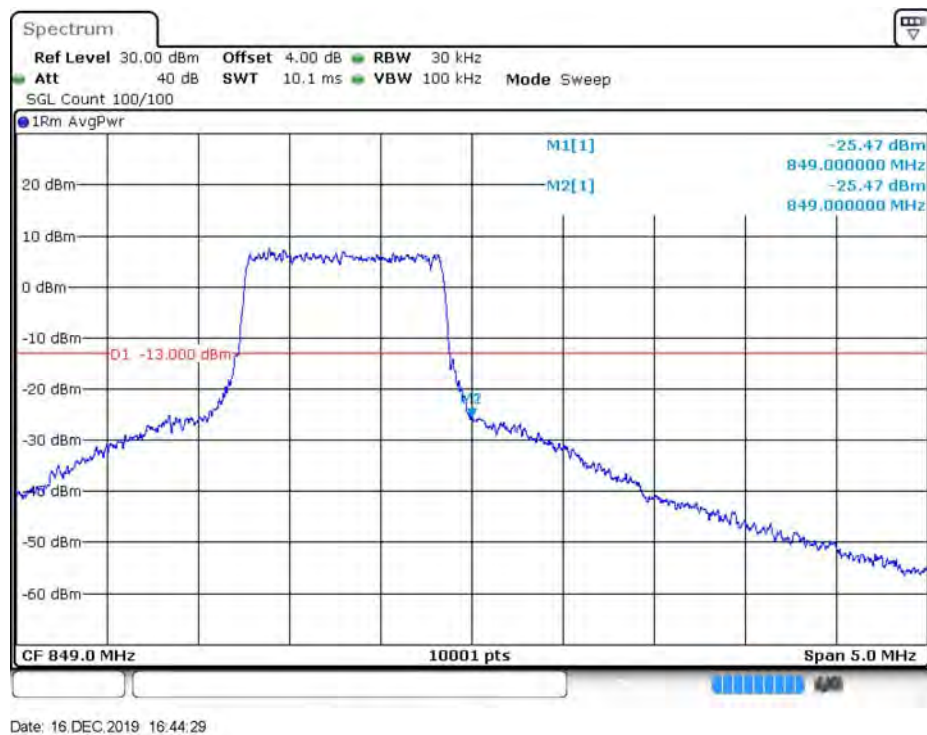


Date: 16.DEC.2019 16:44:01

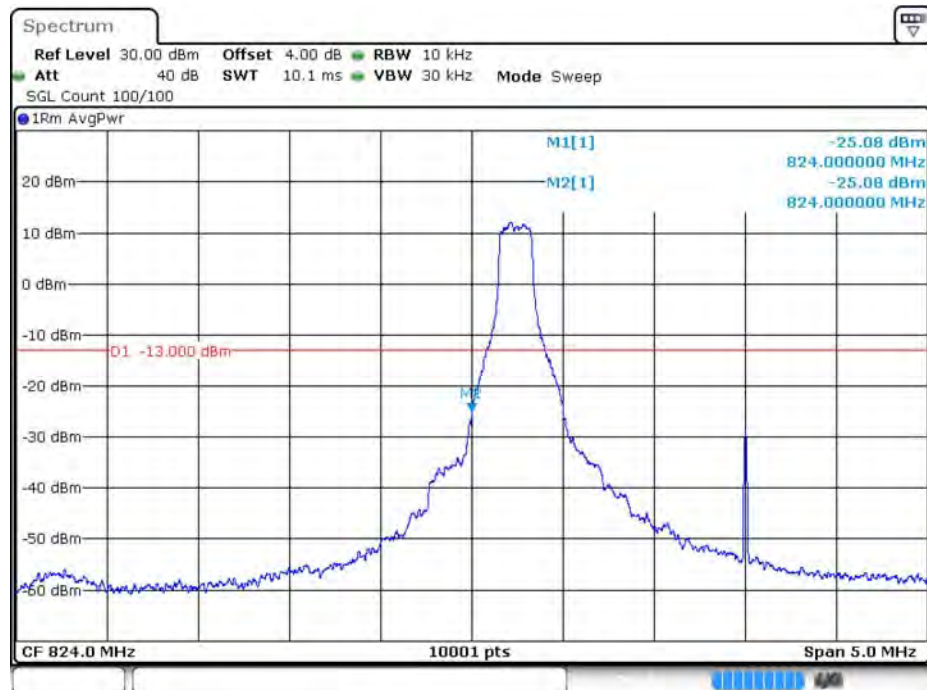
LTE_B5_CH20643_1.4M_16-QAM_1RB5



LTE_B5_CH20643_1.4M_16-QAM_6RB0

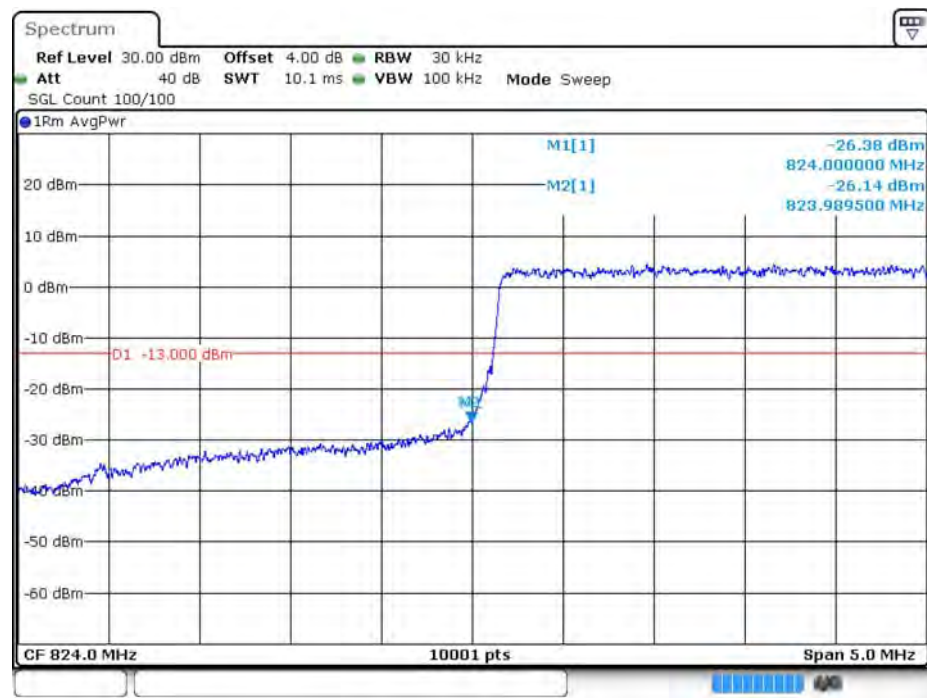


LTE_B5_CH20415_3M_QPSK_1RB0



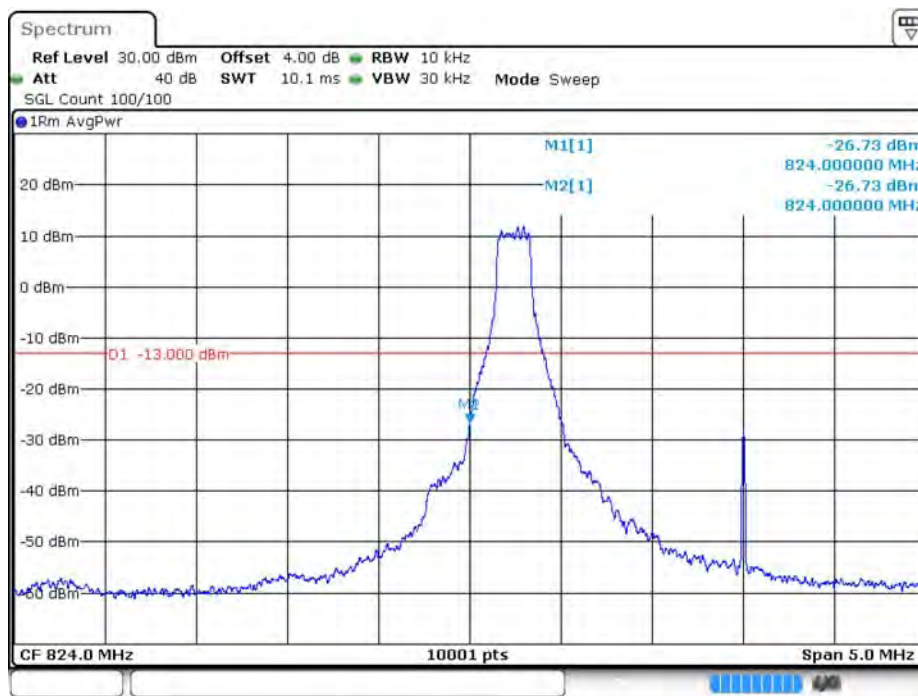
Date: 16 DEC 2019 16:58:02

LTE_B5_CH20415_3M_QPSK_15RB0

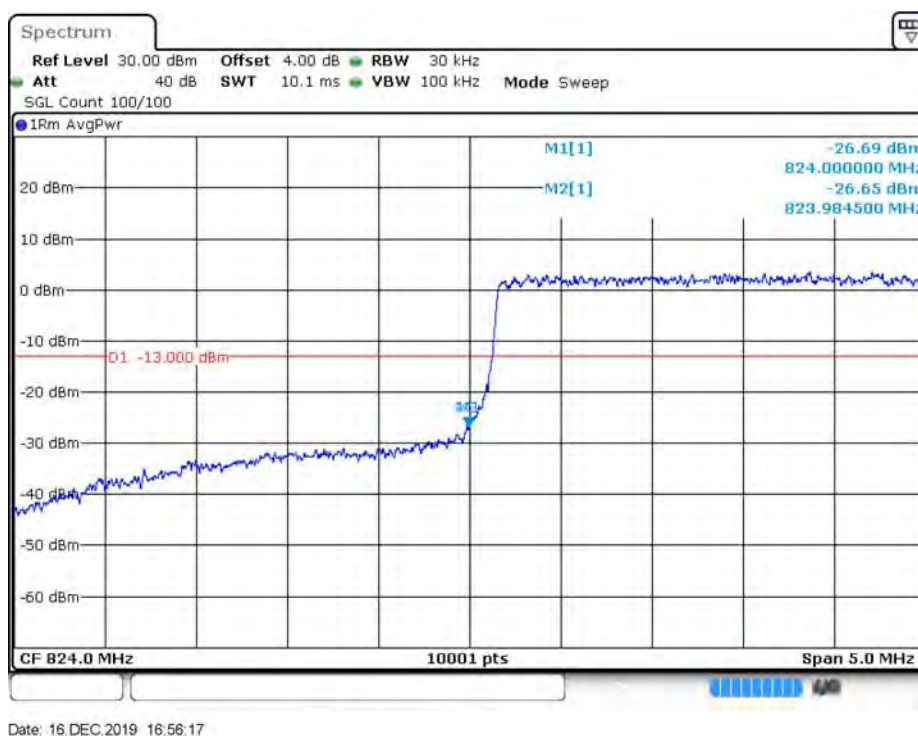


Date: 16 DEC 2019 16:55:57

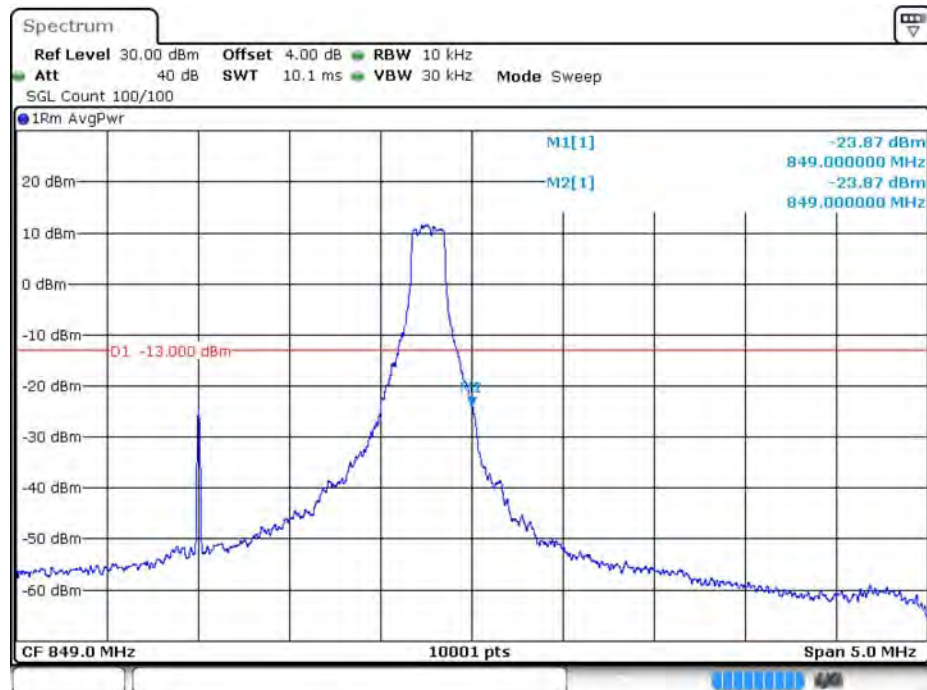
LTE_B5_CH20415_3M_16-QAM_1RB0



LTE_B5_CH20415_3M_16-QAM_15RB0

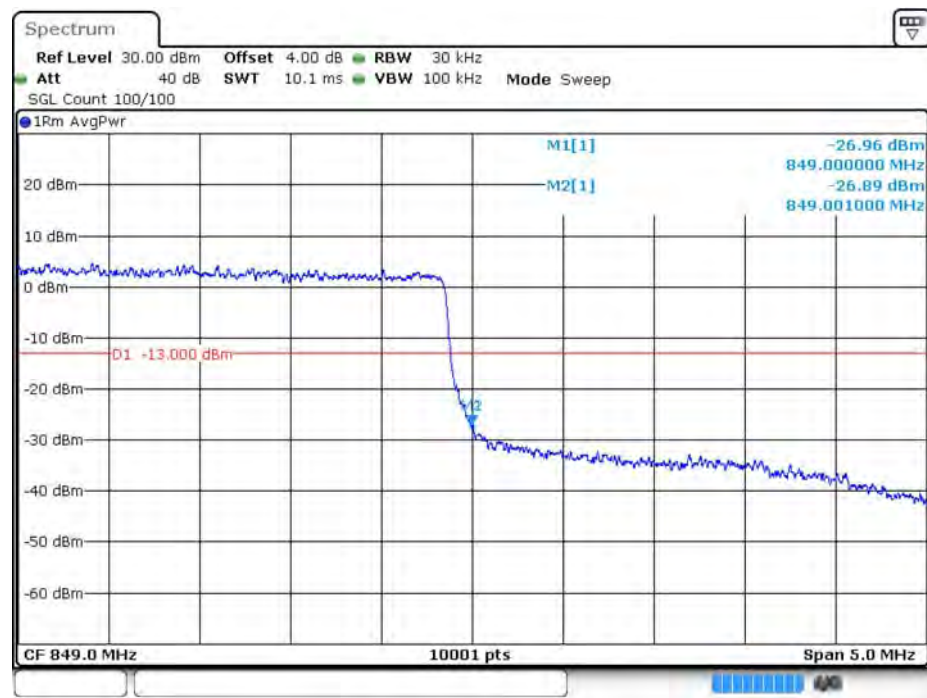


LTE_B5_CH20635_3M_QPSK_1RB14



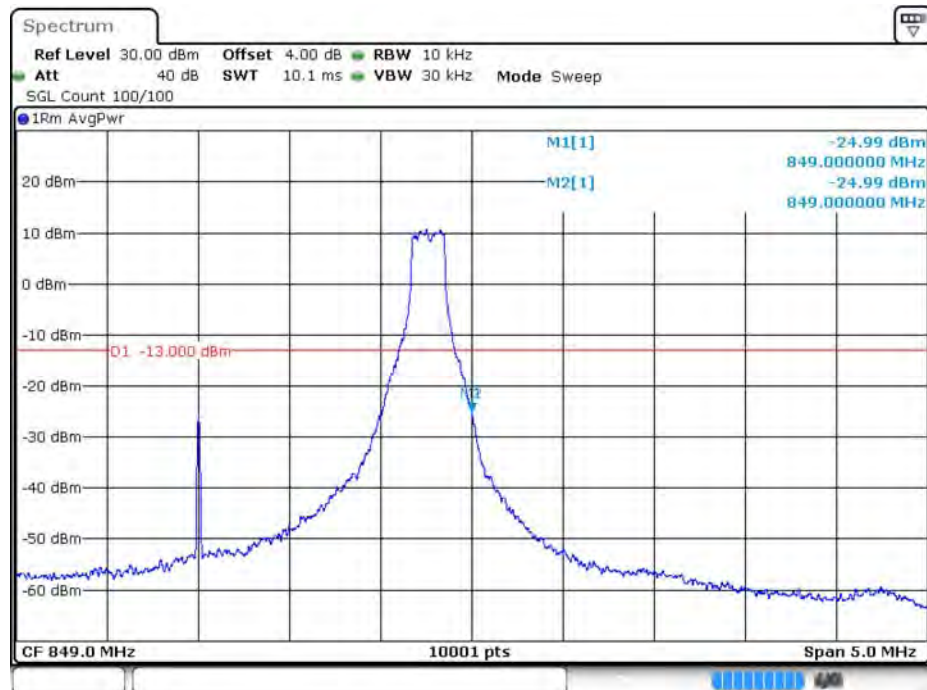
Date: 16 DEC 2019 16:51:59

LTE_B5_CH20635_3M_QPSK_15RB0



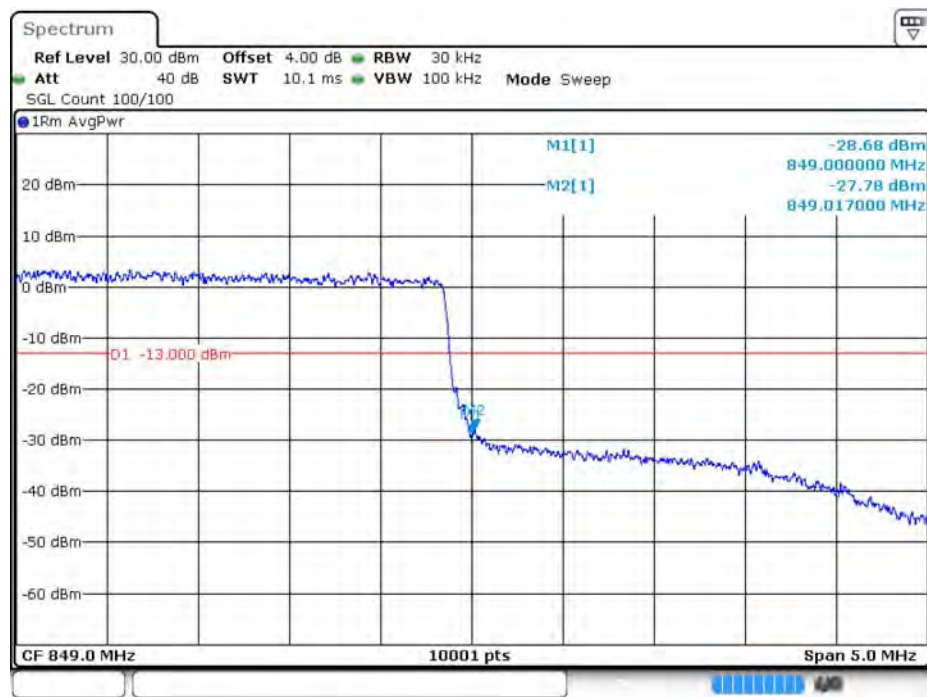
Date: 16 DEC 2019 16:54:26

LTE_B5_CH20635_3M_16-QAM_1RB14



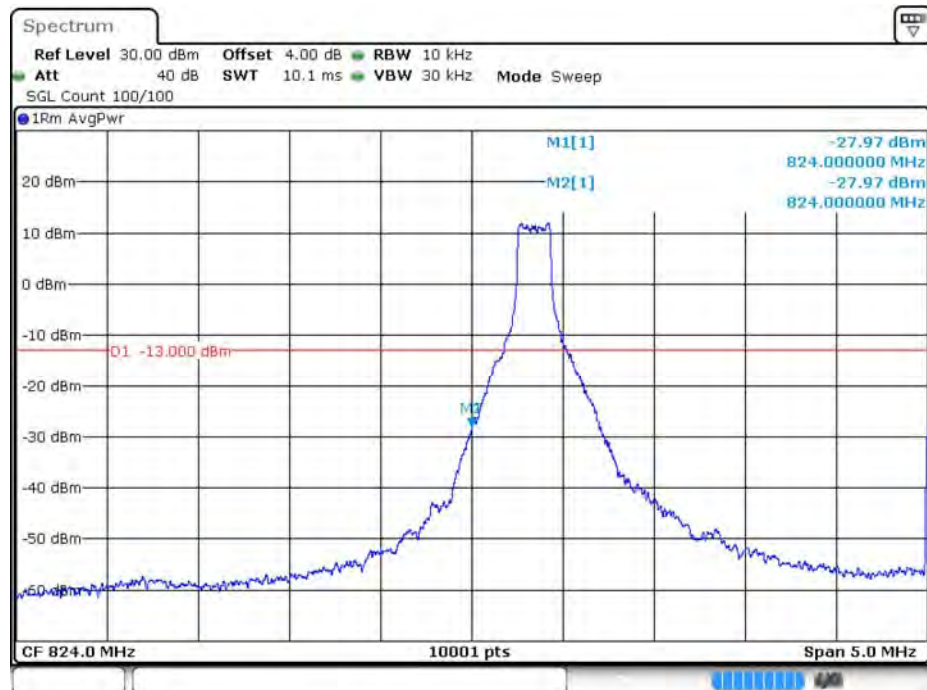
Date: 16.DEC.2019 16:52:56

LTE_B5_CH20635_3M_16-QAM_15RB0



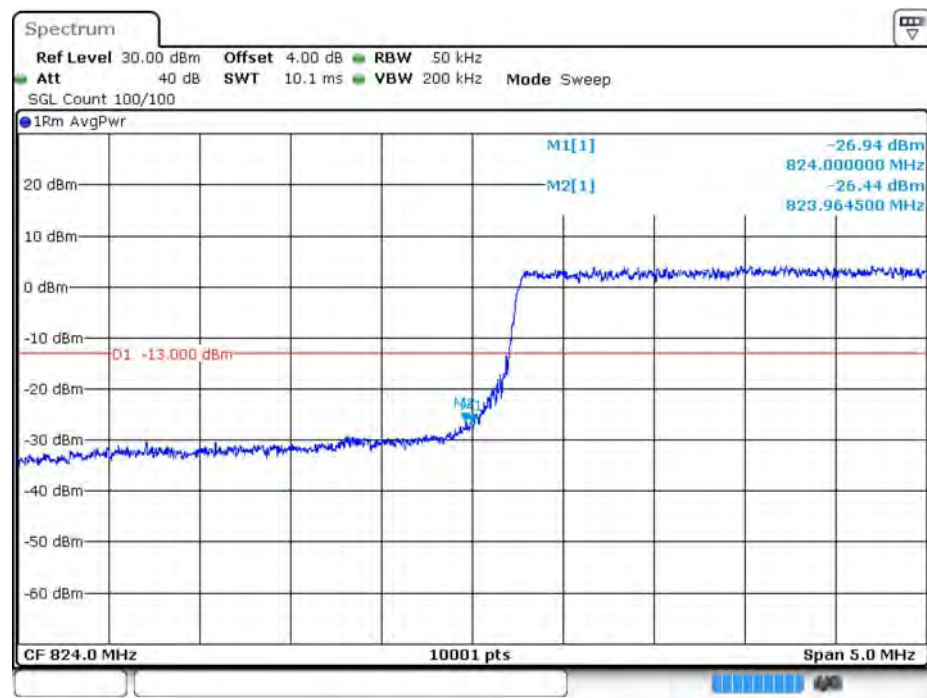
Date: 16.DEC.2019 16:54:05

LTE_B5_CH20425_5M_QPSK_1RB0



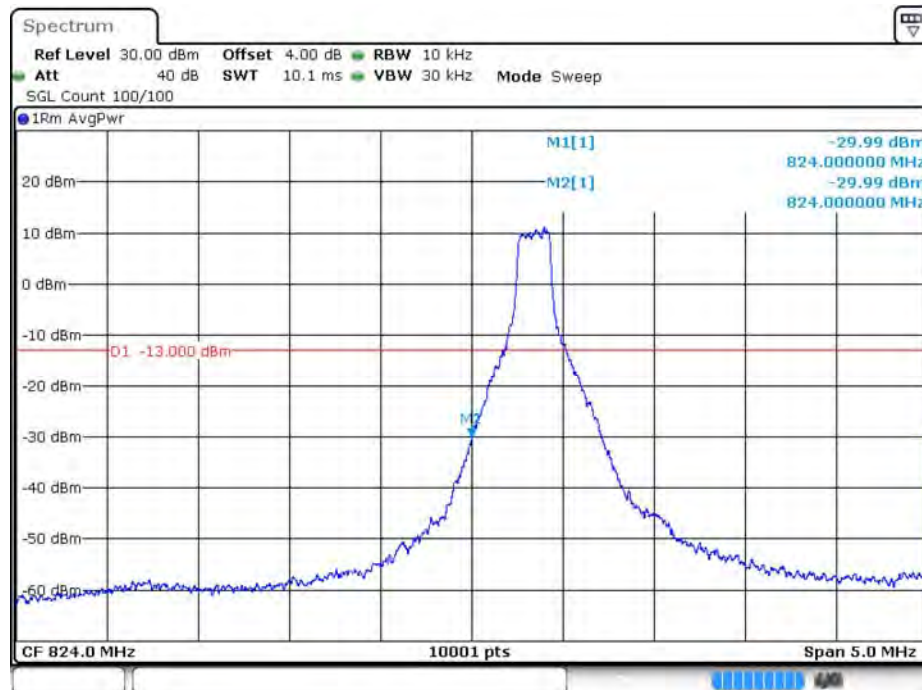
Date: 16.DEC.2019 17:02:29

LTE_B5_CH20425_5M_QPSK_25RB0



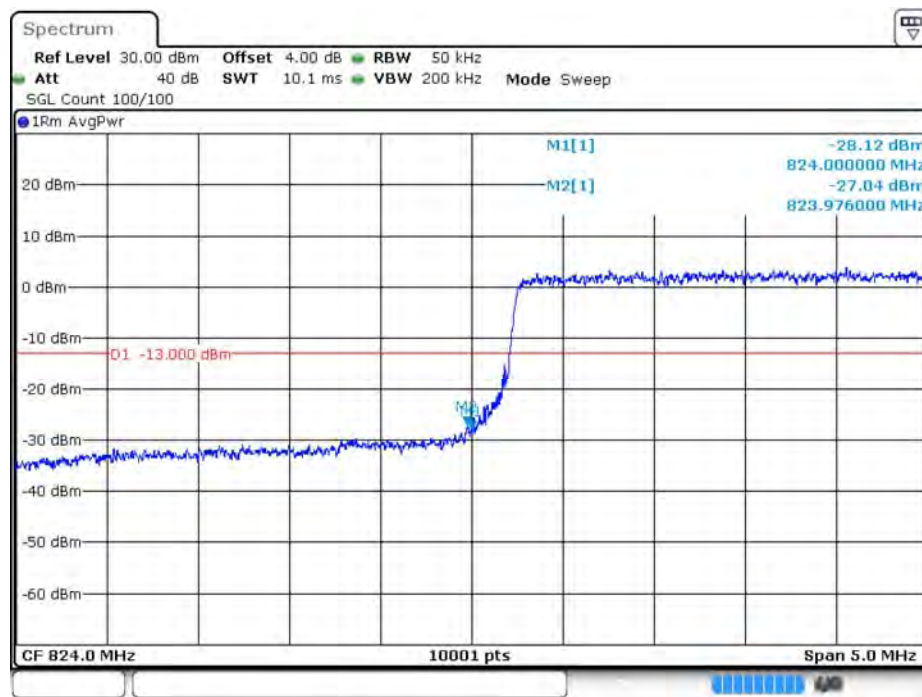
Date: 16.DEC.2019 17:14:57

LTE_B5_CH20425_5M_16-QAM_1RB0



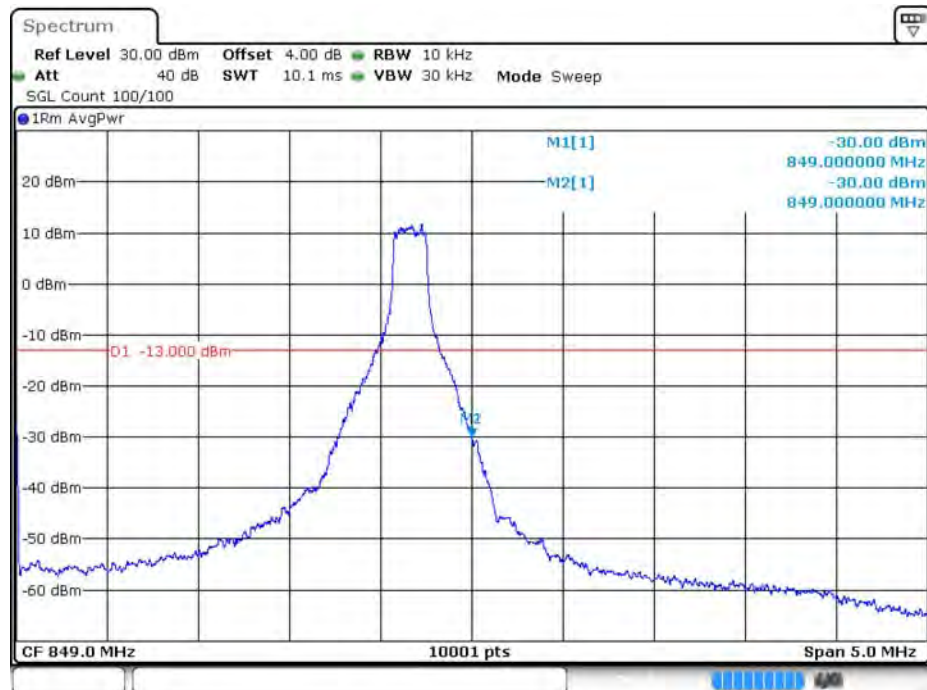
Date: 16.DEC.2019 17:03:19

LTE_B5_CH20425_5M_16-QAM_25RB0



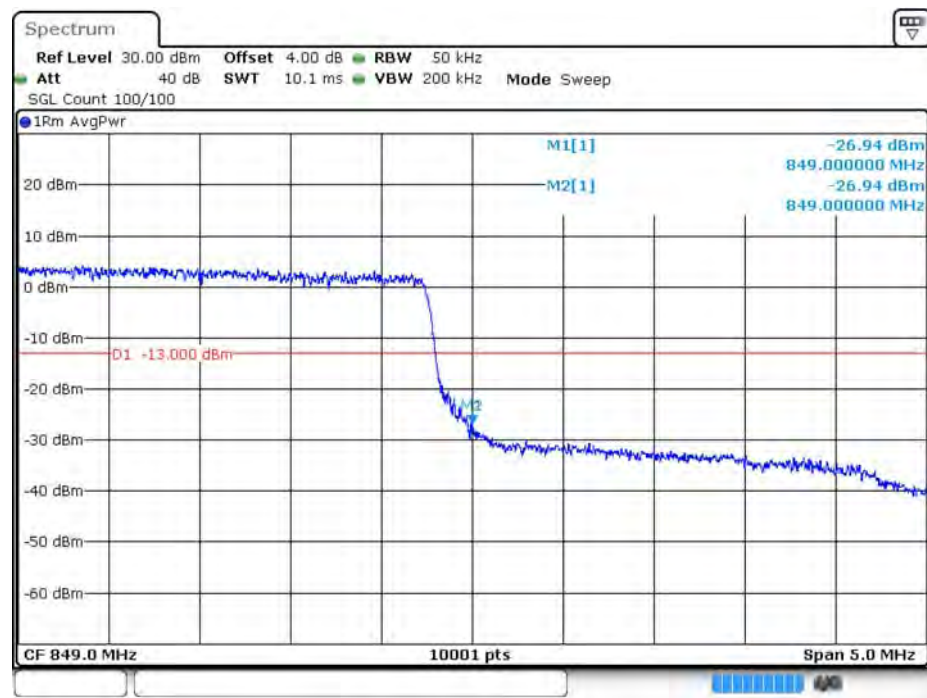
Date: 16.DEC.2019 17:14:31

LTE_B5_CH20625_5M_QPSK_1RB24



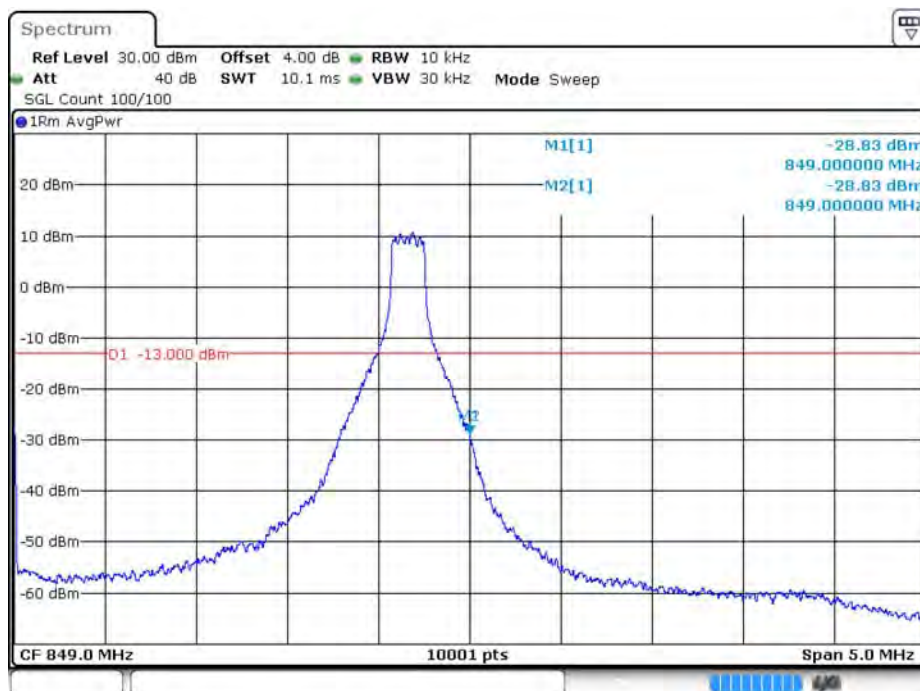
Date: 16.DEC.2019 17:19:14

LTE_B5_CH20625_5M_QPSK_25RB0



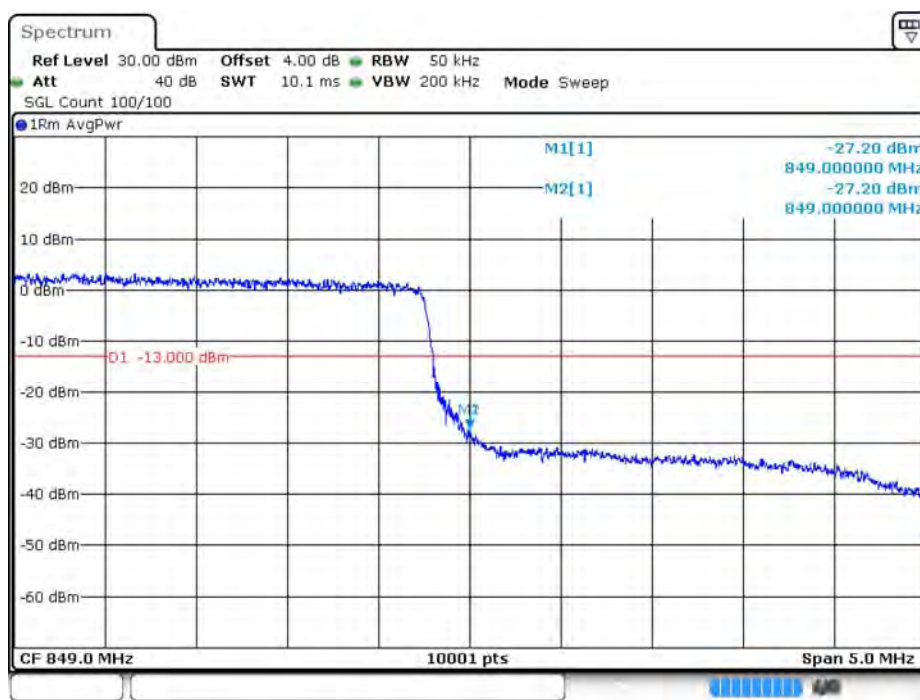
Date: 16.DEC.2019 17:17:13

LTE_B5_CH20625_5M_16-QAM_1RB24



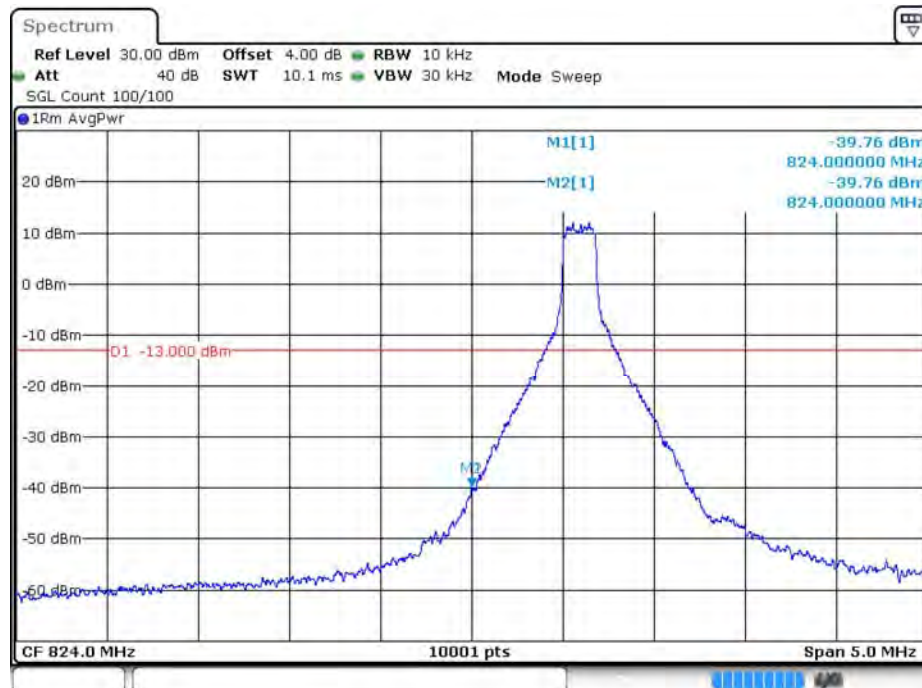
Date: 16.DEC.2019 17:18:46

LTE_B5_CH20625_5M_16-QAM_25RB0



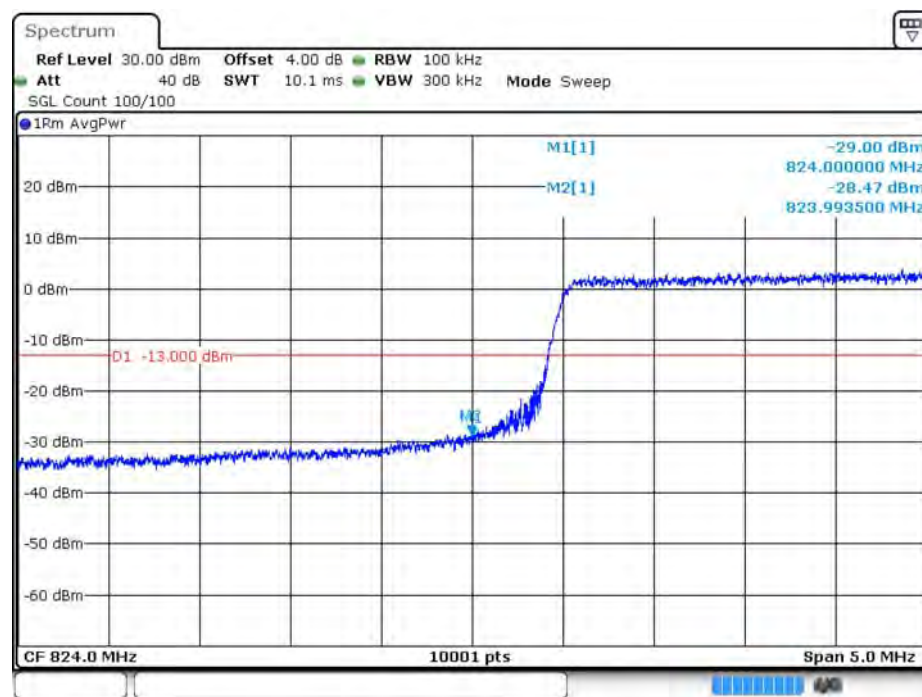
Date: 16.DEC.2019 17:18:07

LTE_B5_CH20450_10M_QPSK_1RB0



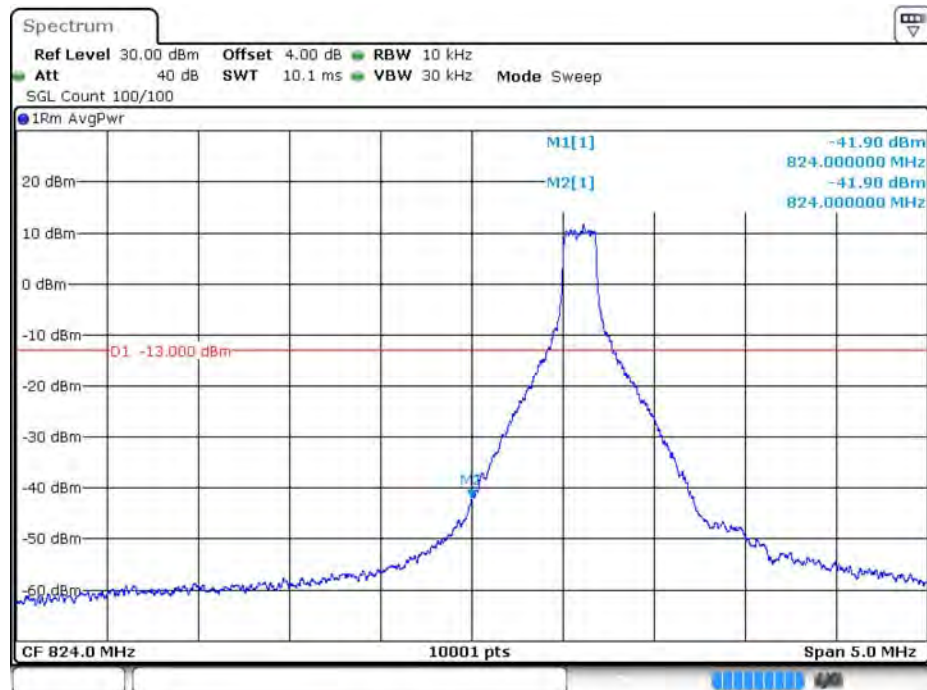
Date: 16 DEC 2019 17:44:05

LTE_B5_CH20450_10M_QPSK_50RB0



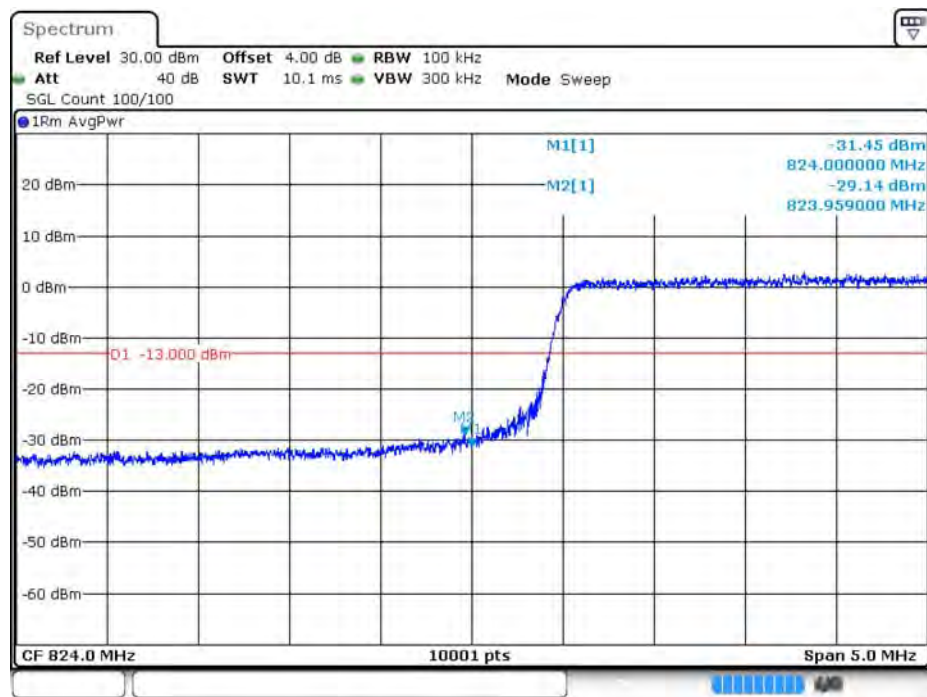
Date: 16 DEC 2019 17:42:49

LTE_B5_CH20450_10M_16-QAM_1RB0



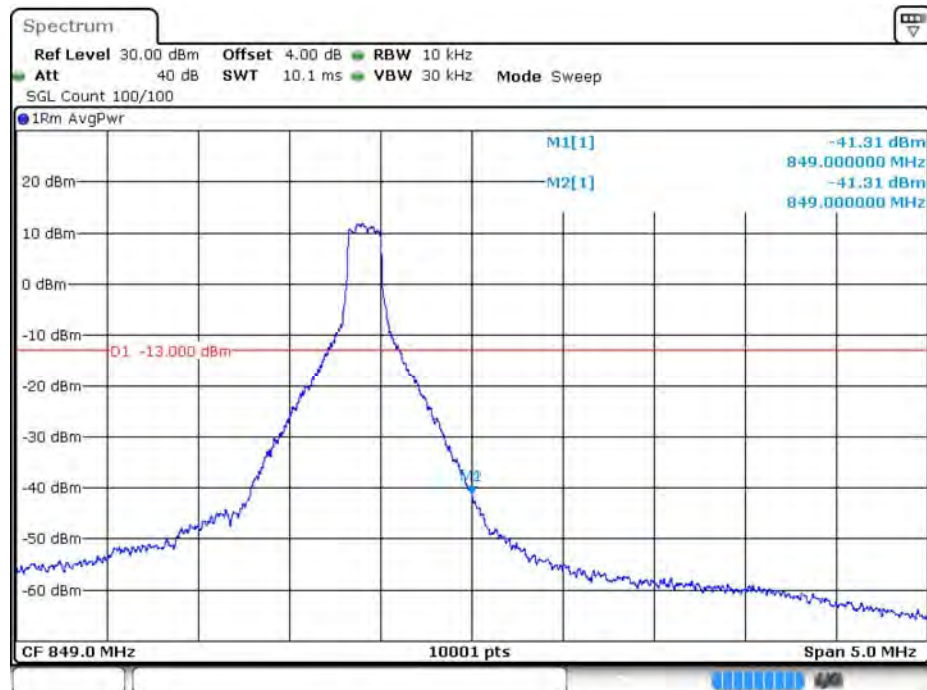
Date: 16.DEC.2019 17:43:45

LTE_B5_CH20450_10M_16-QAM_50RB0



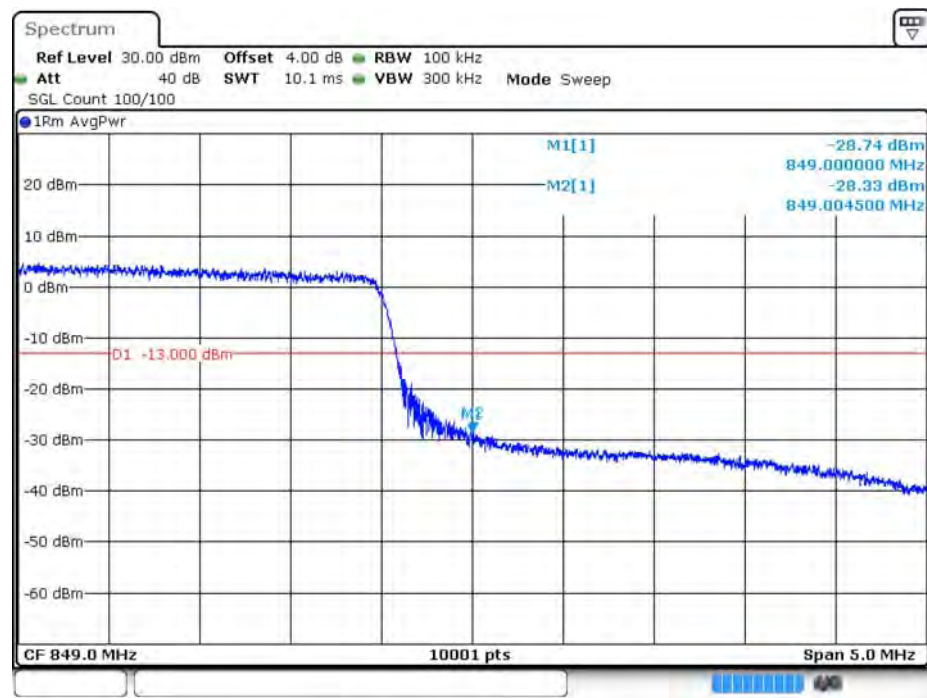
Date: 16.DEC.2019 17:43:07

LTE_B5_CH20600_10M_QPSK_1RB49



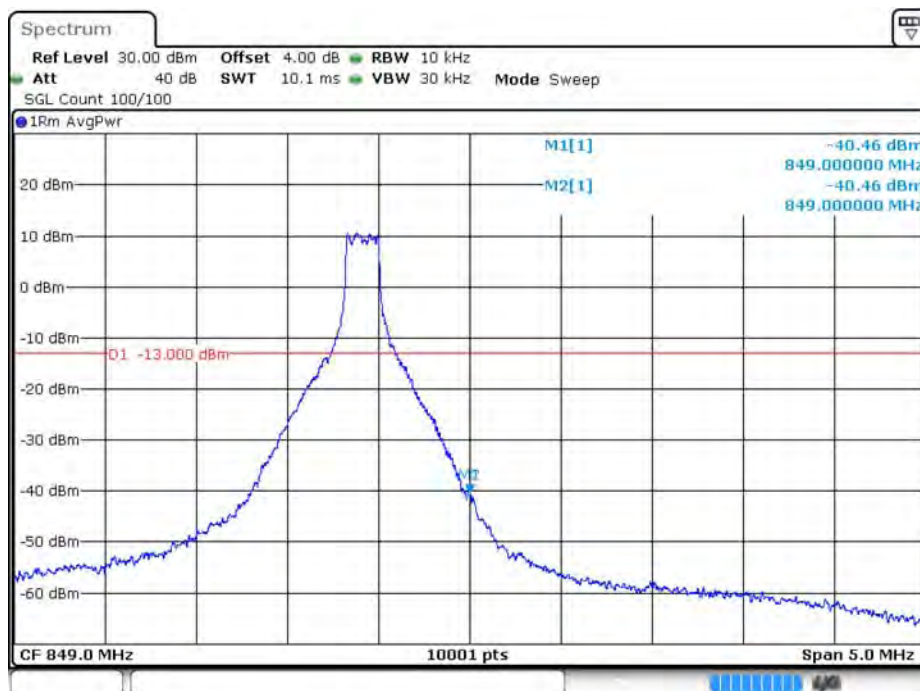
Date: 16.DEC.2019 17:37:07

LTE_B5_CH20600_10M_QPSK_50RB0



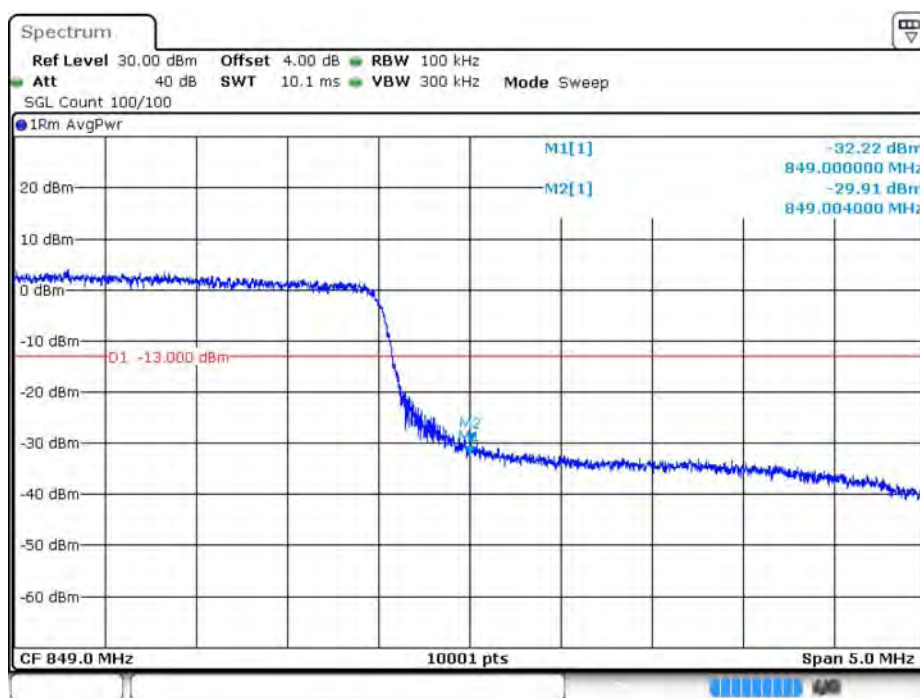
Date: 16.DEC.2019 17:39:00

LTE_B5_CH20600_10M_16-QAM_1RB49



Date: 16.DEC.2019 17:37:34

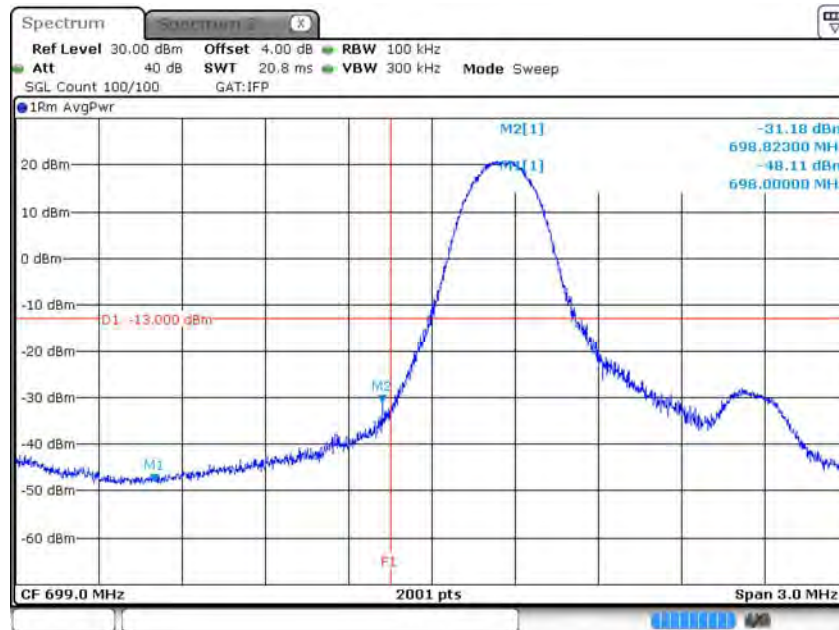
LTE_B5_CH20600_10M_16-QAM_50RB0



Date: 16.DEC.2019 17:38:41

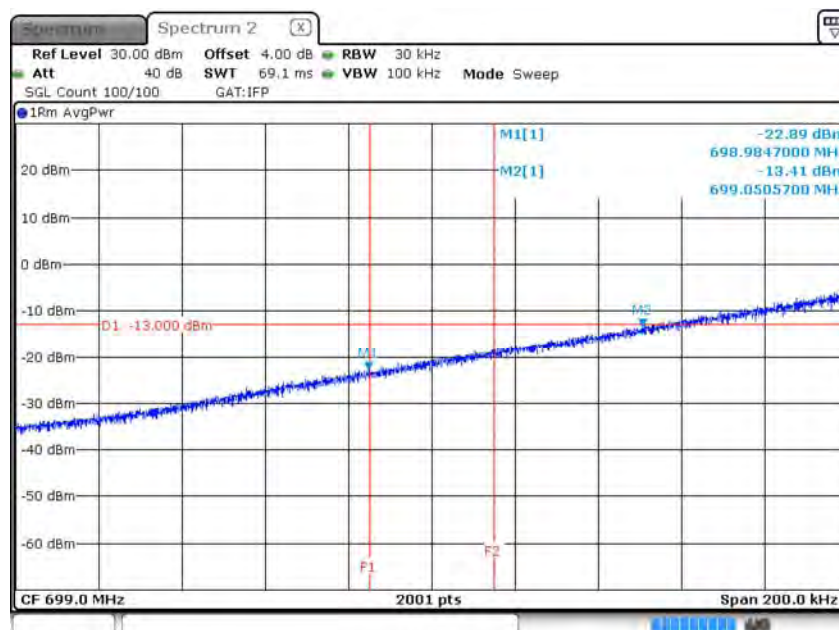
Product	Module		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 4: LTE Band 12		
Date of Test	2019/12/18~2019/12/19	Test Site	SR12-H
Temperature (°C)	23.0°C	Humidity (%RH)	55%RH

B12_CH23017_1.4M_QPSK_1RB0_150k



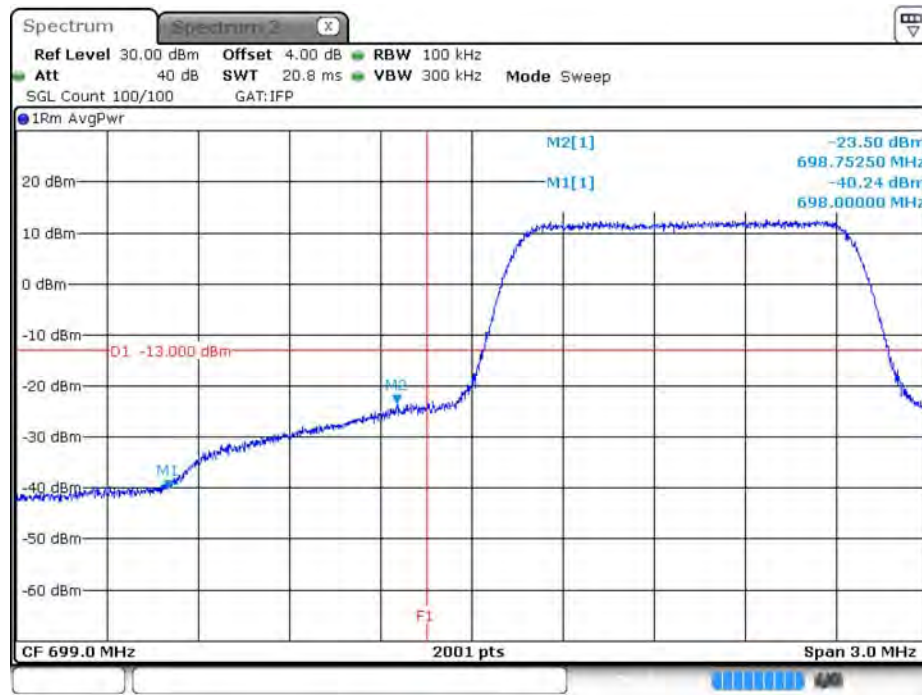
Date: 18 DEC 2019 21:56:21

LTE_B12_CH23017_1.4M_QPSK_1RB0_15k



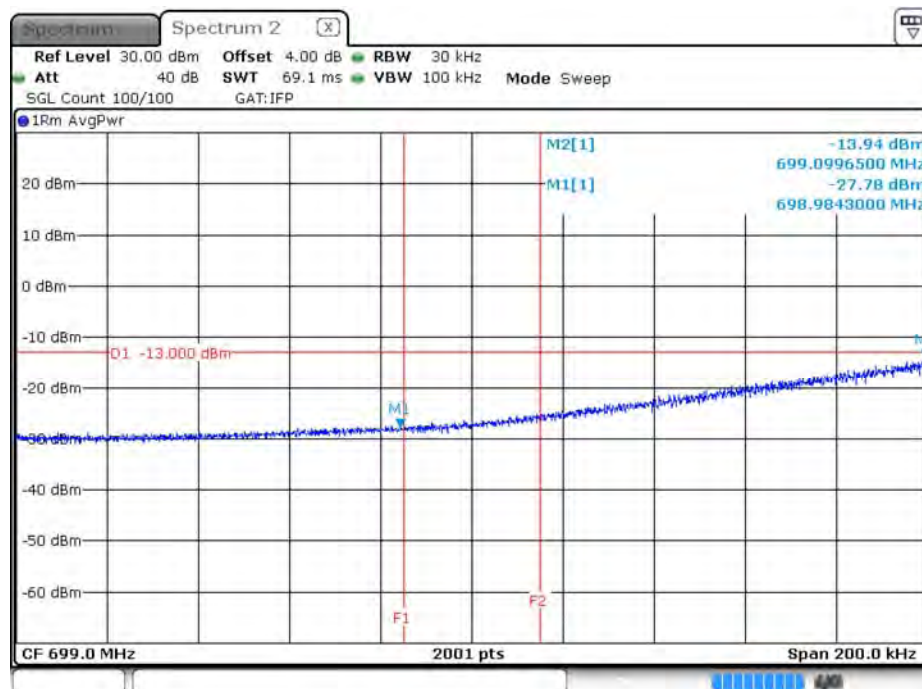
Date: 18 DEC 2019 21:58:48

B12_CH23017_1.4M_QPSK_6RB0_150k



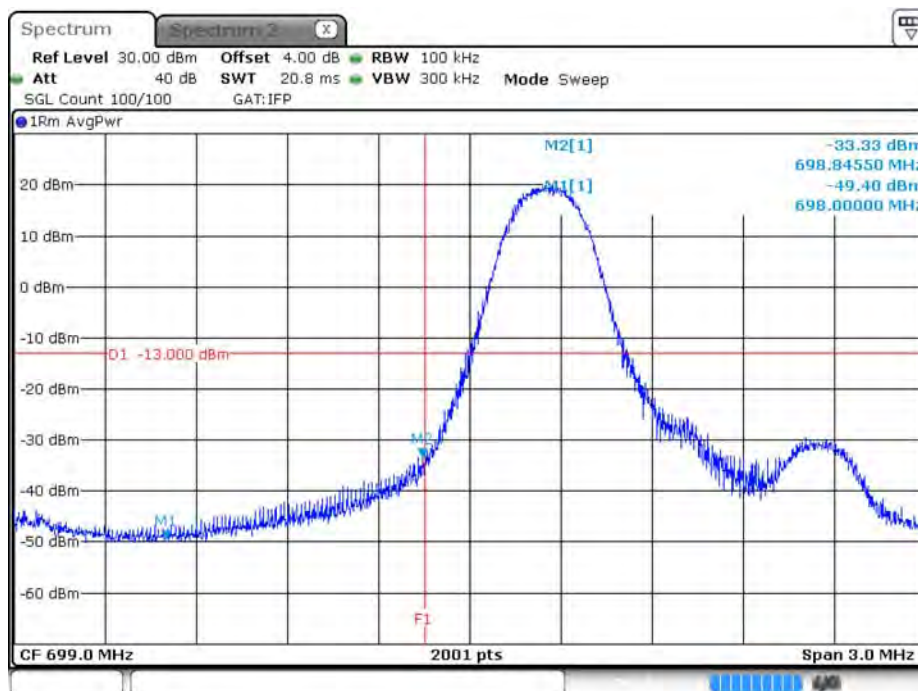
Date: 19.DEC.2019 10:19:29

B12_CH23017_1.4M_QPSK_6RB0_15k



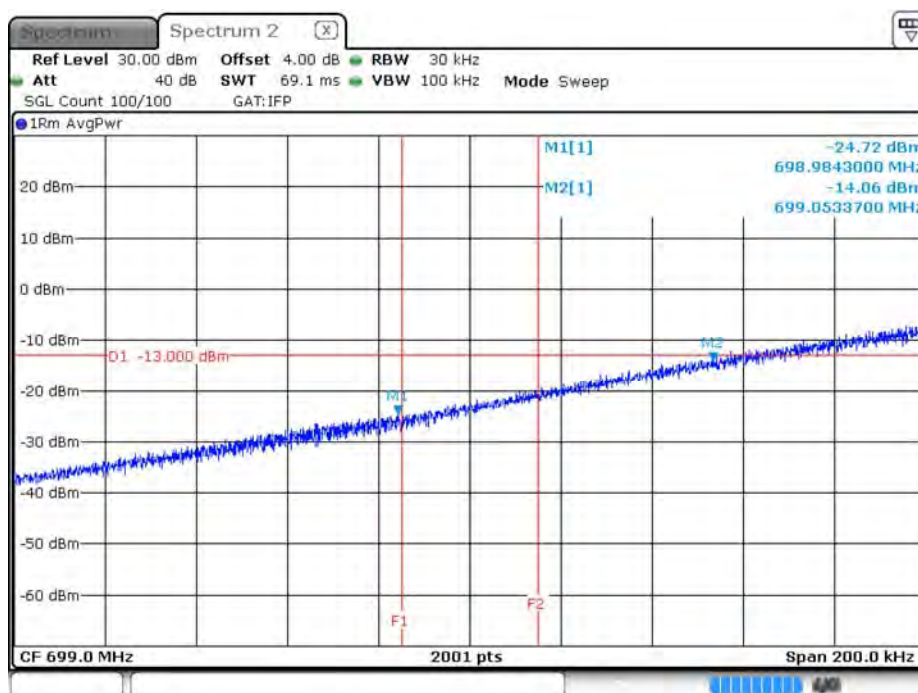
Date: 19.DEC.2019 10:20:48

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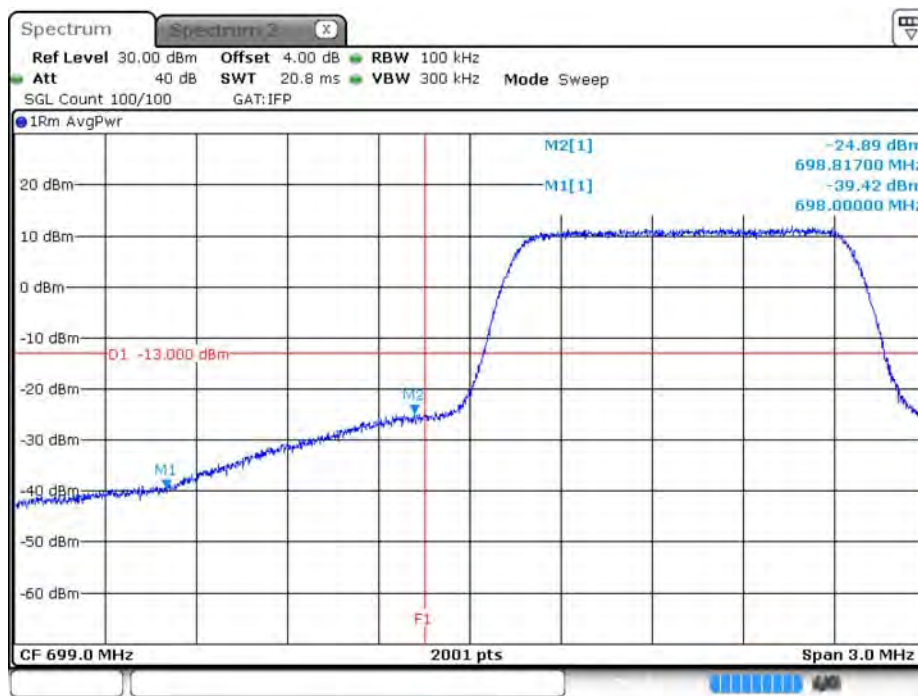
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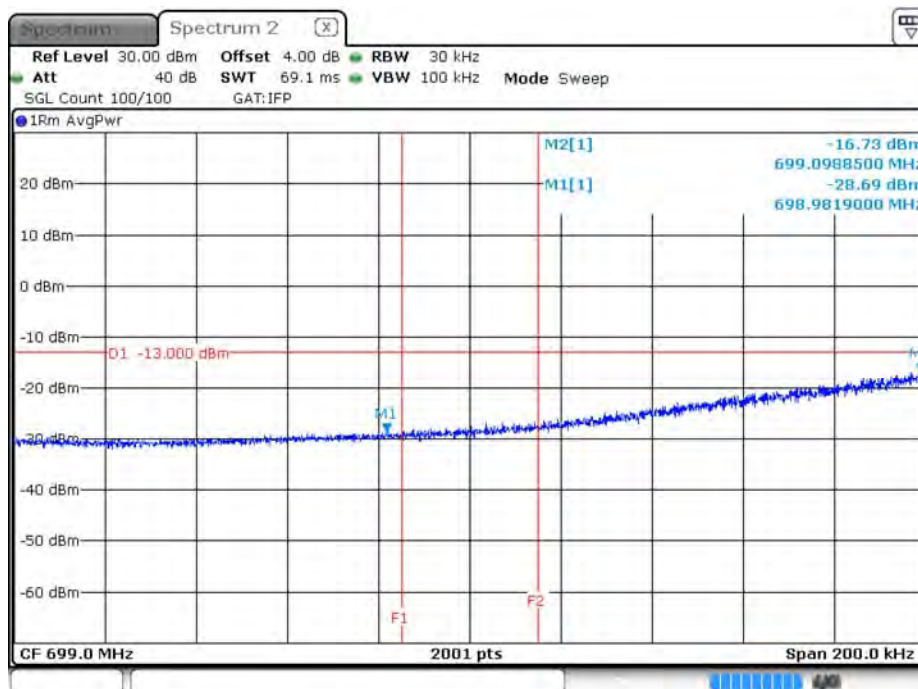
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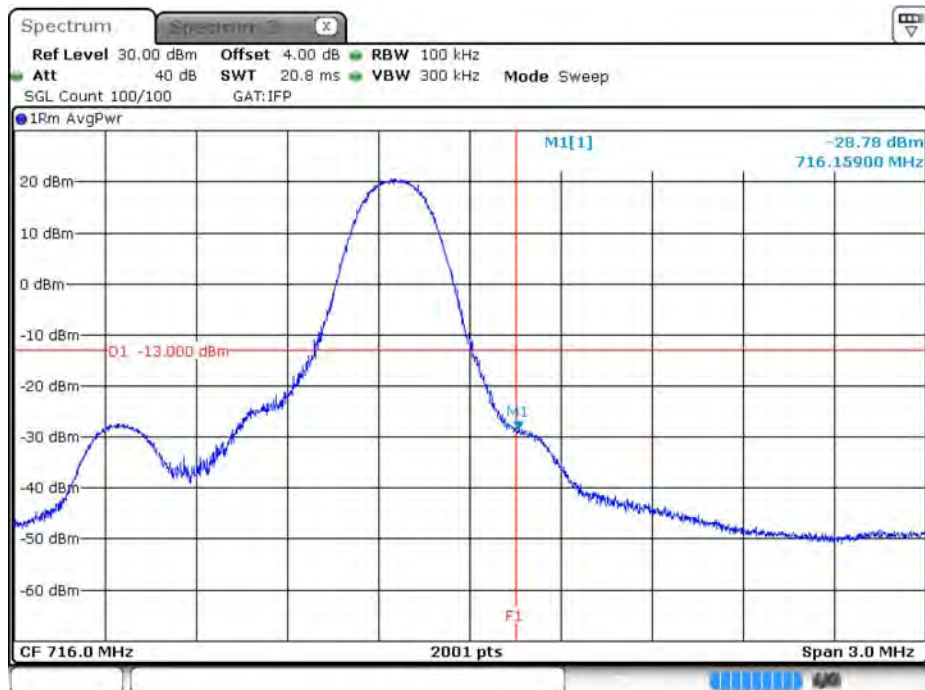
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B12_CH23017_1.4M_16-QAM_6RB0_15k



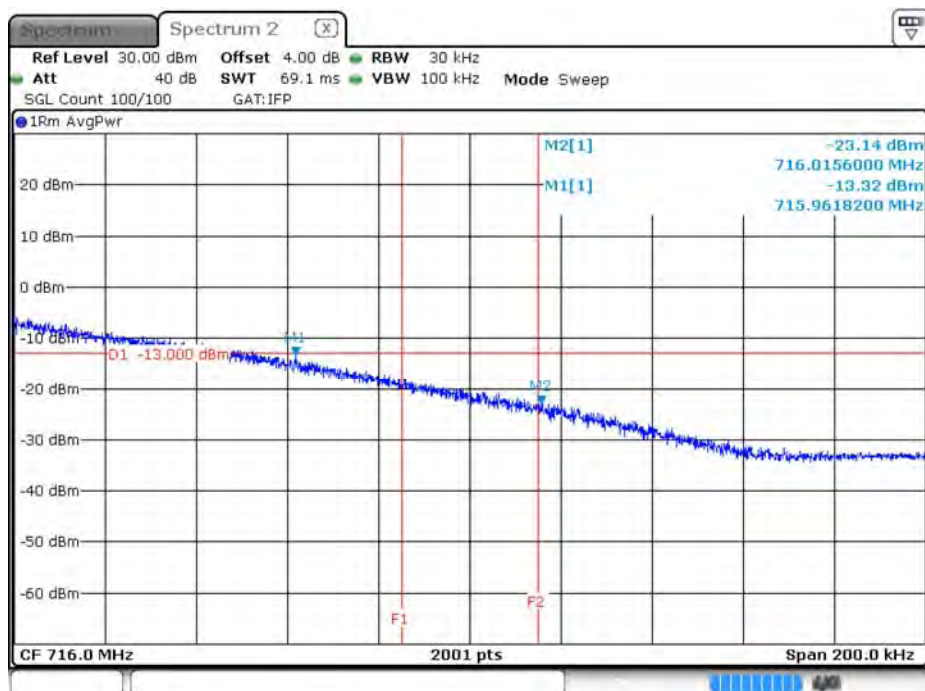
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B12_CH23173_1.4M_QPSK_1RB5_150k



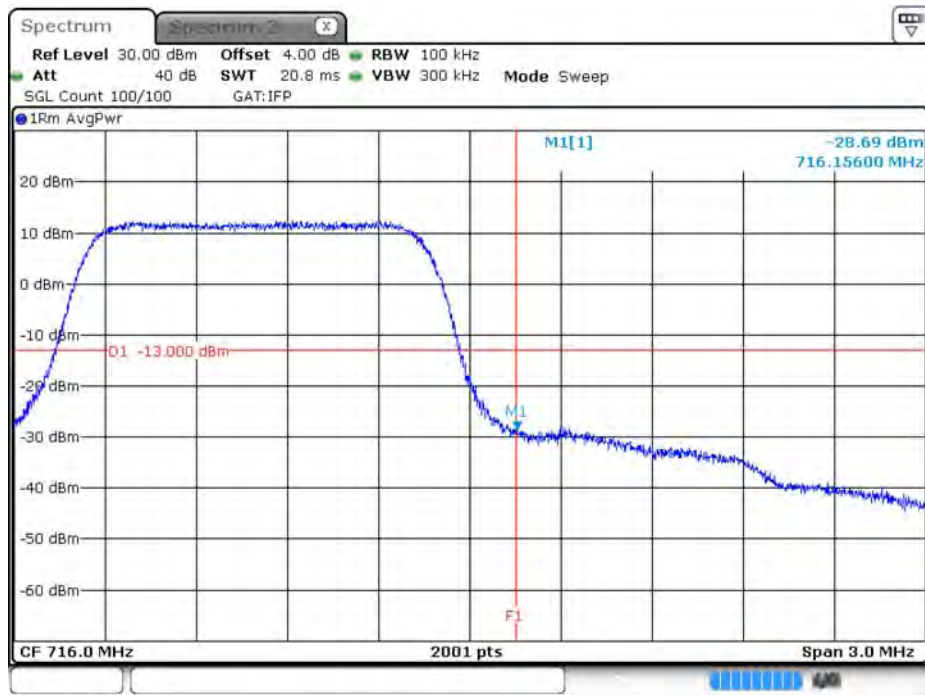
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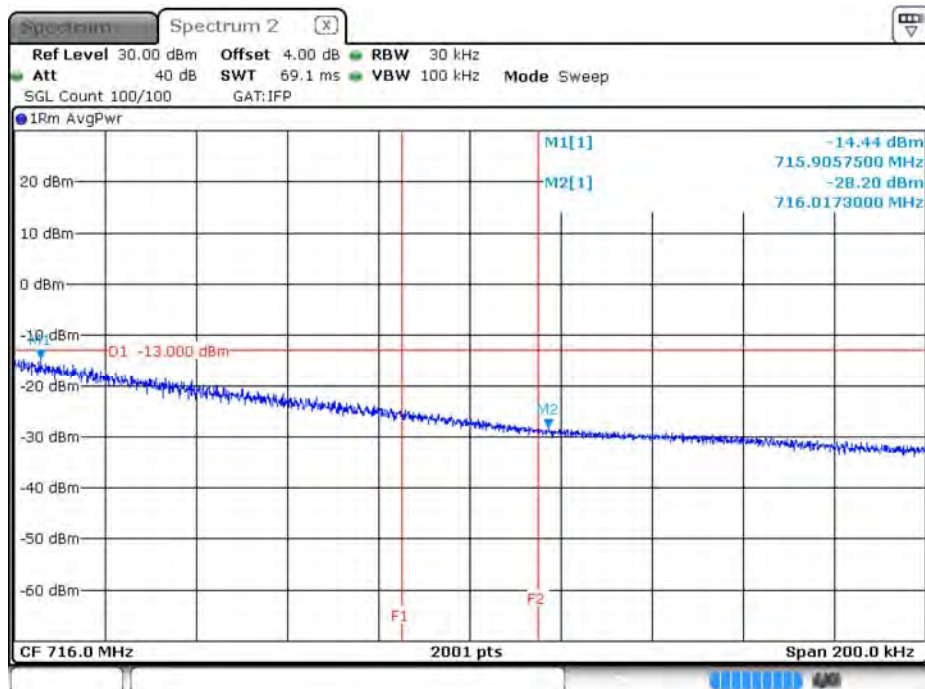
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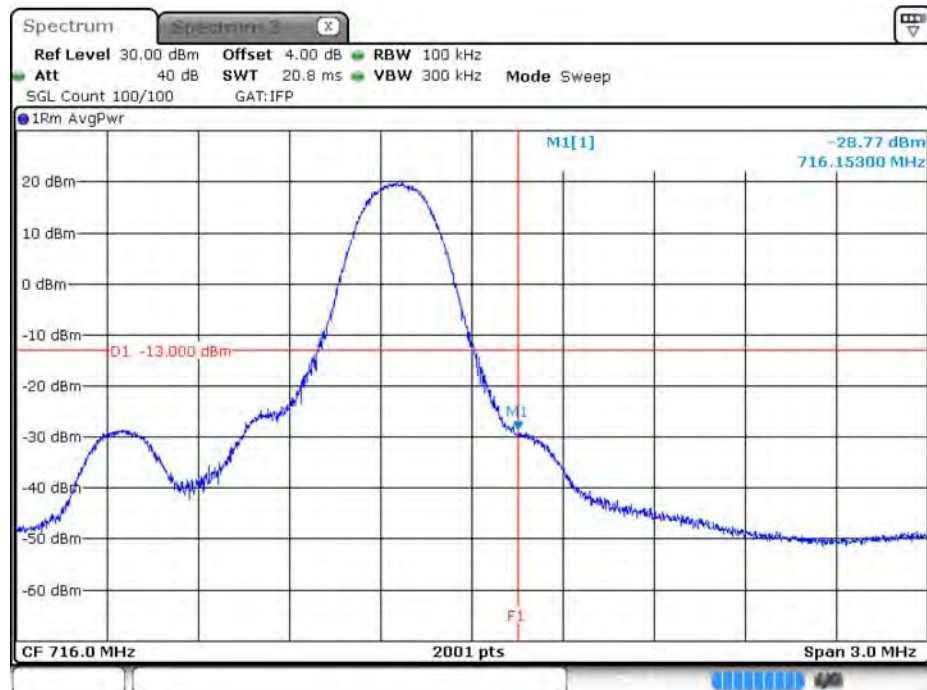
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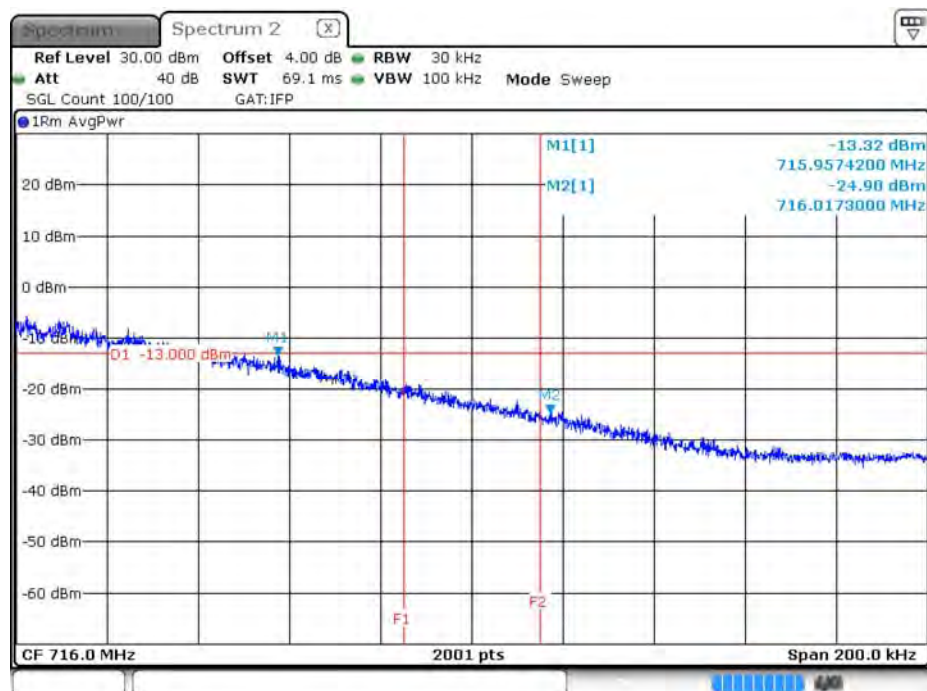
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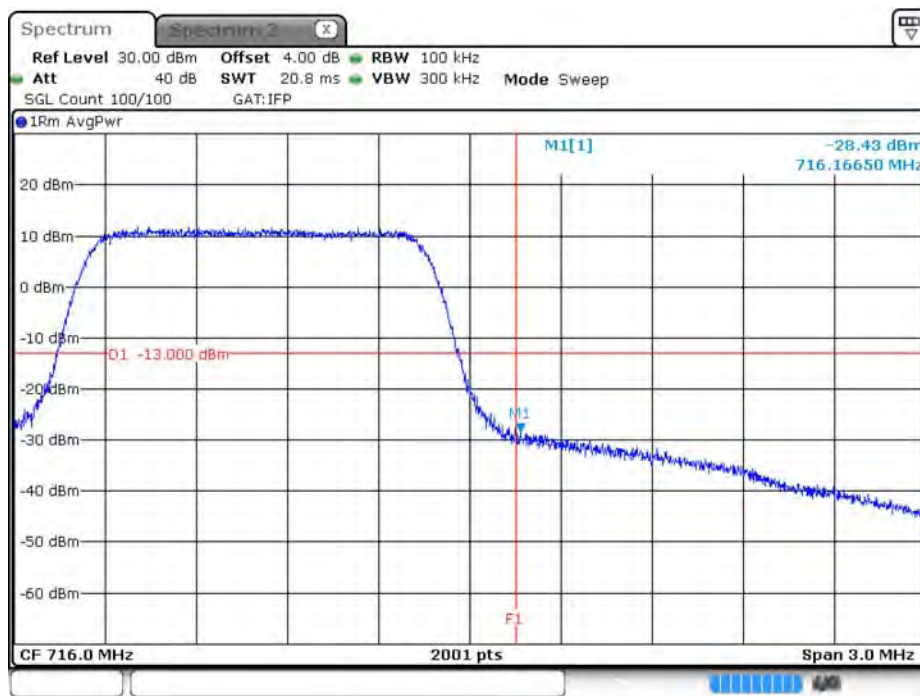
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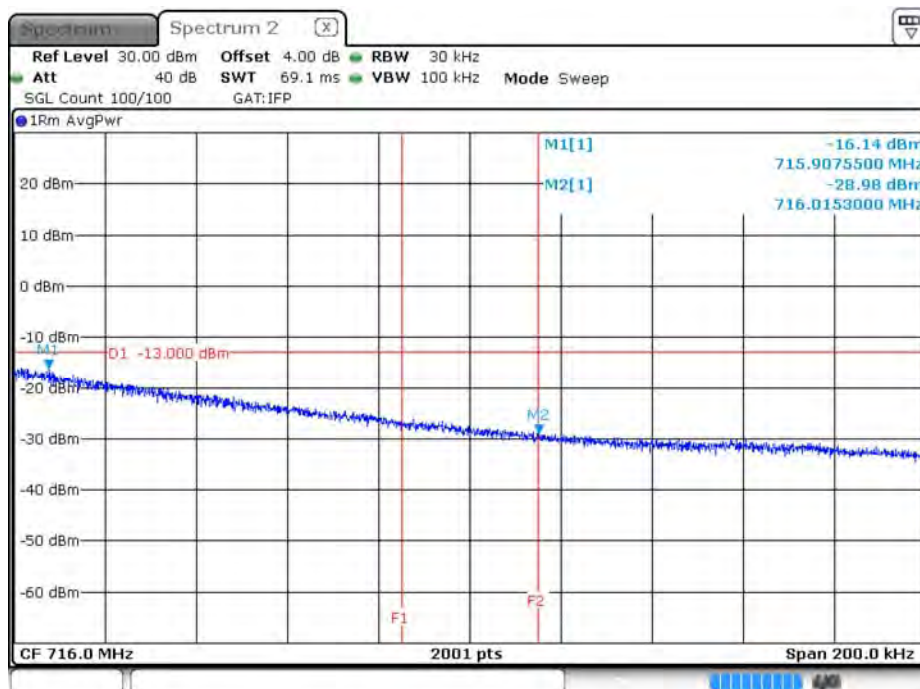
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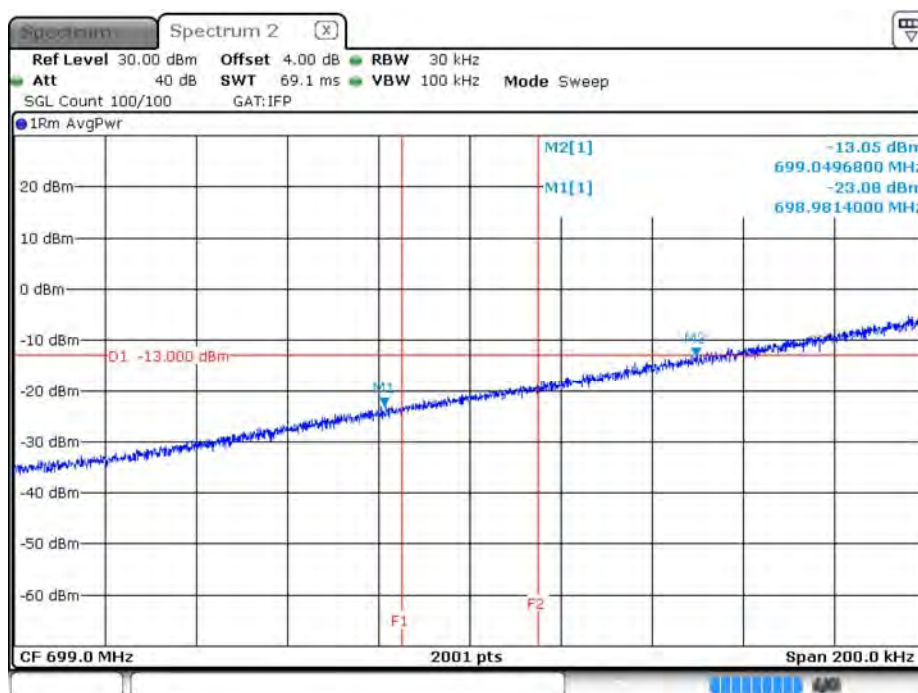
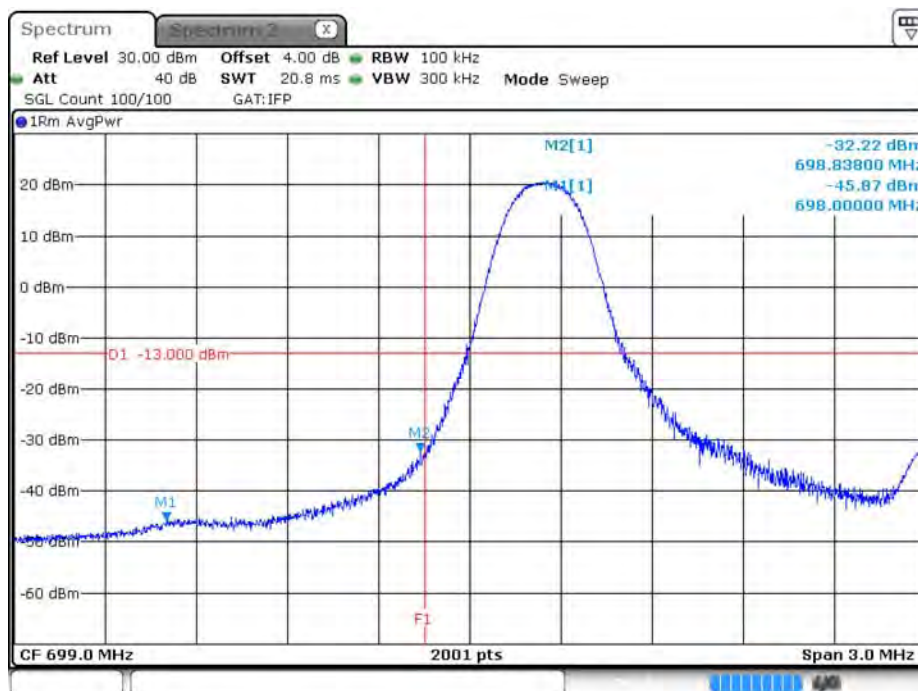


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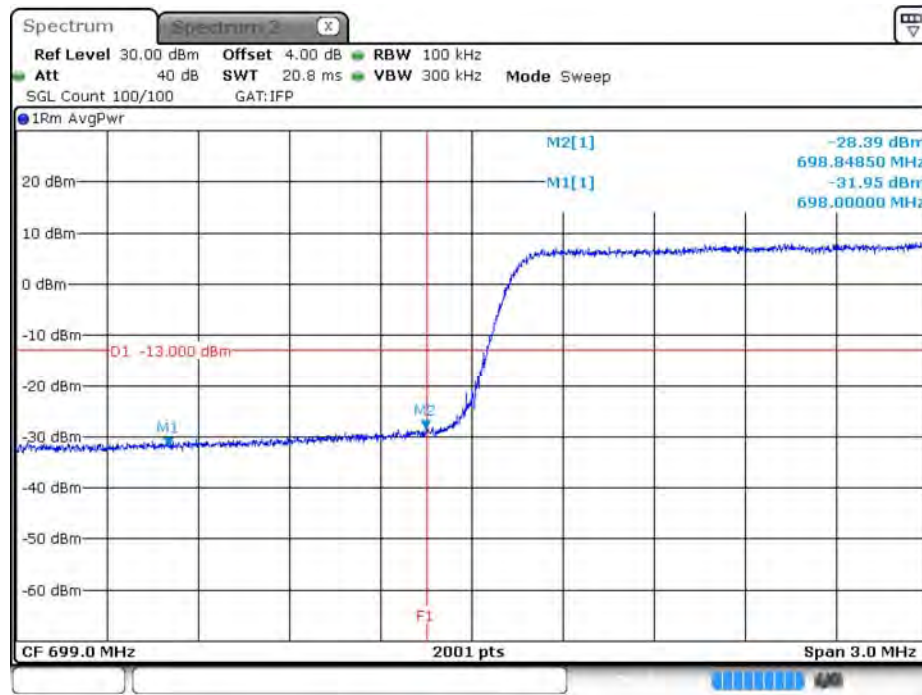
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Date: 19, DEC, 2019 13:49:45

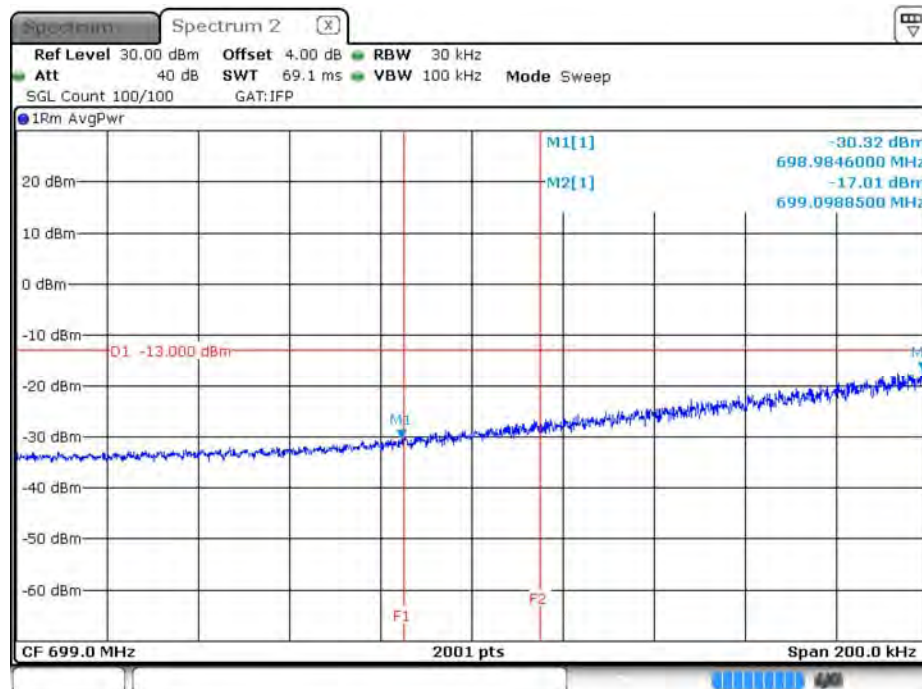


B12_CH23025_3M_QPSK_15RB0_150k



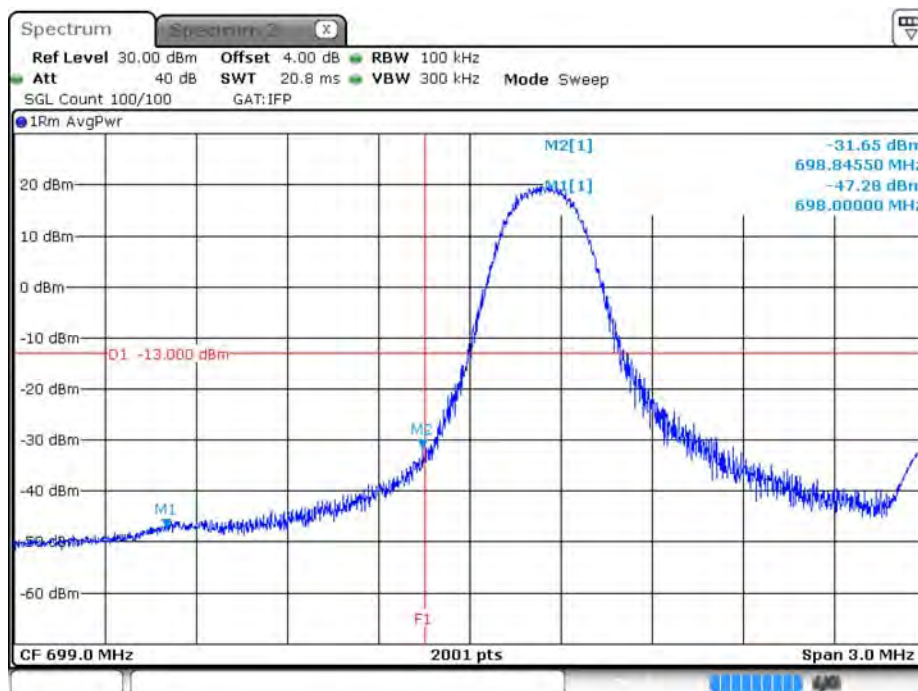
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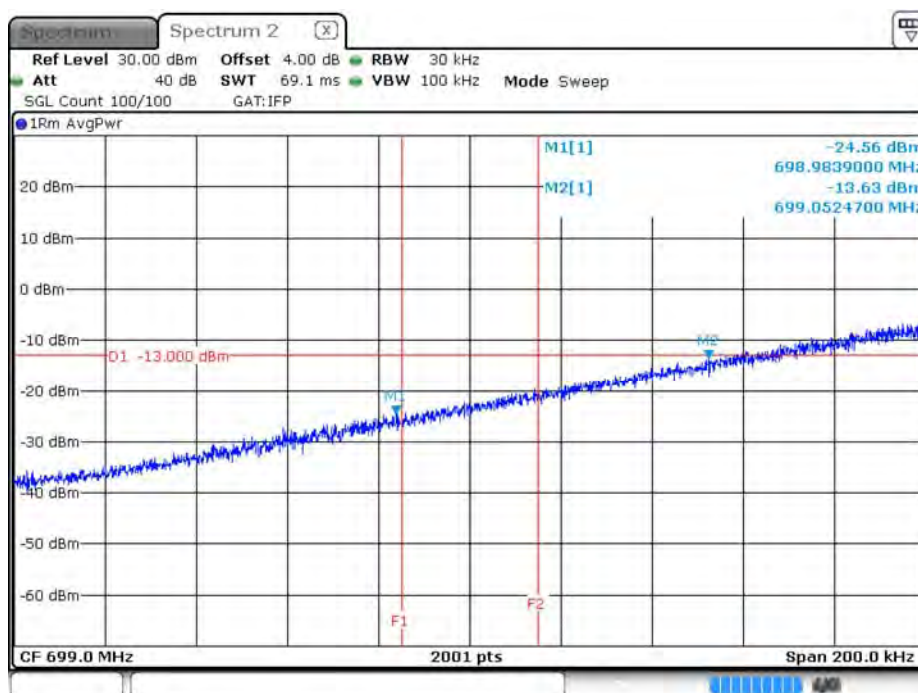
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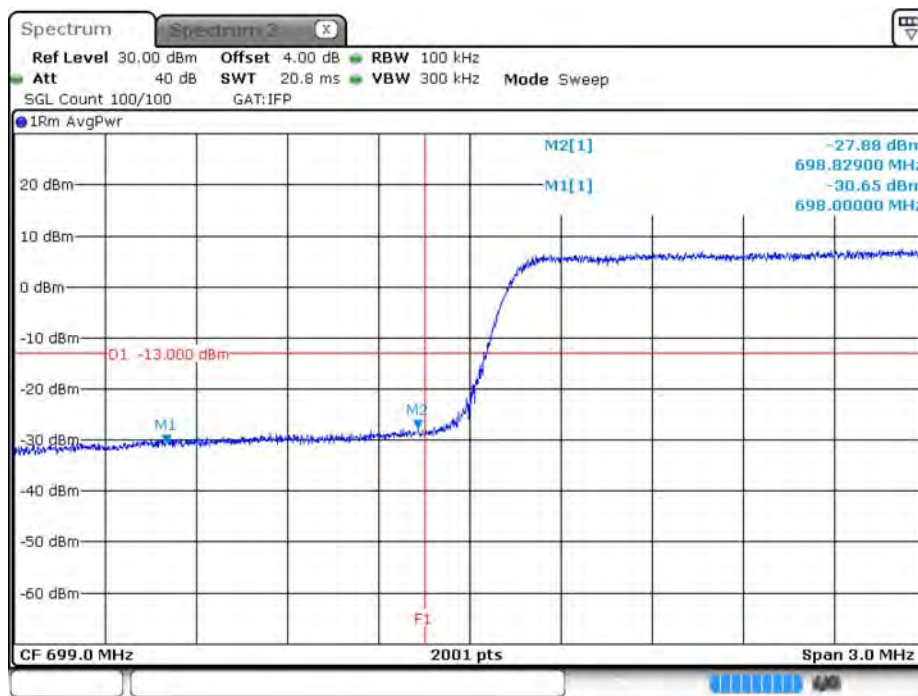
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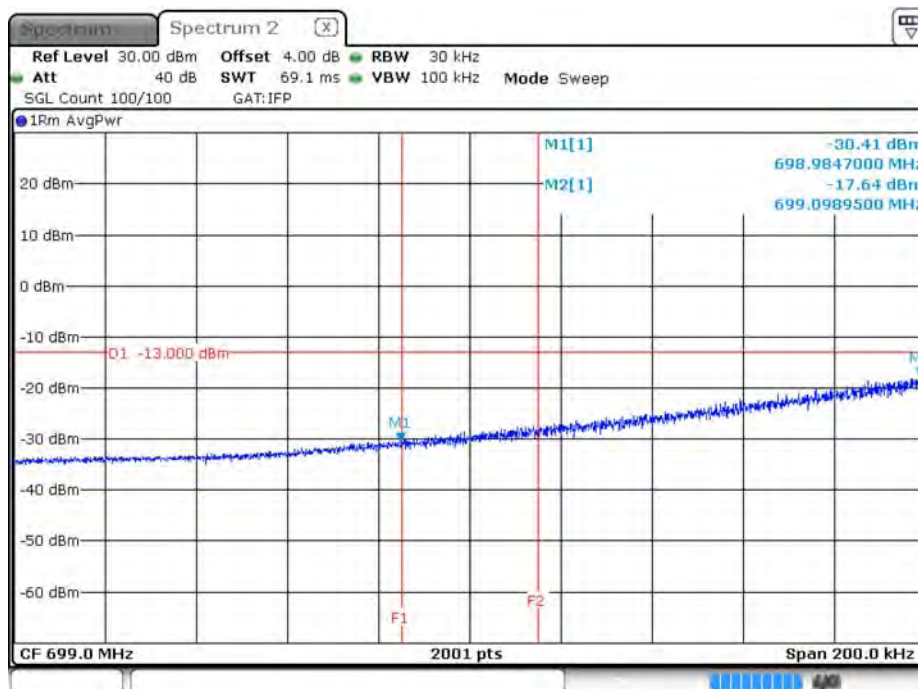
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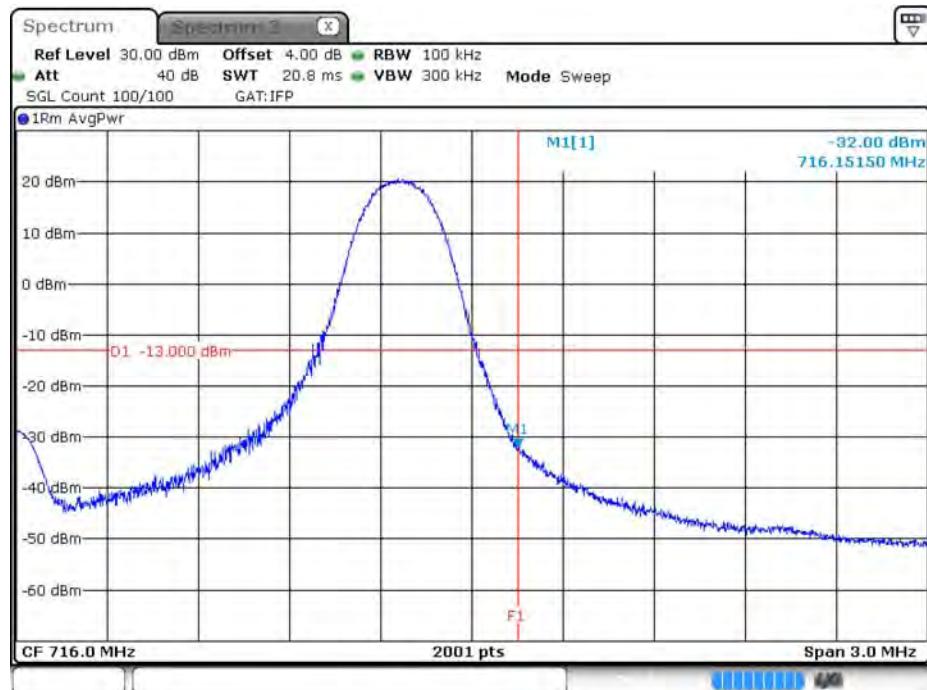
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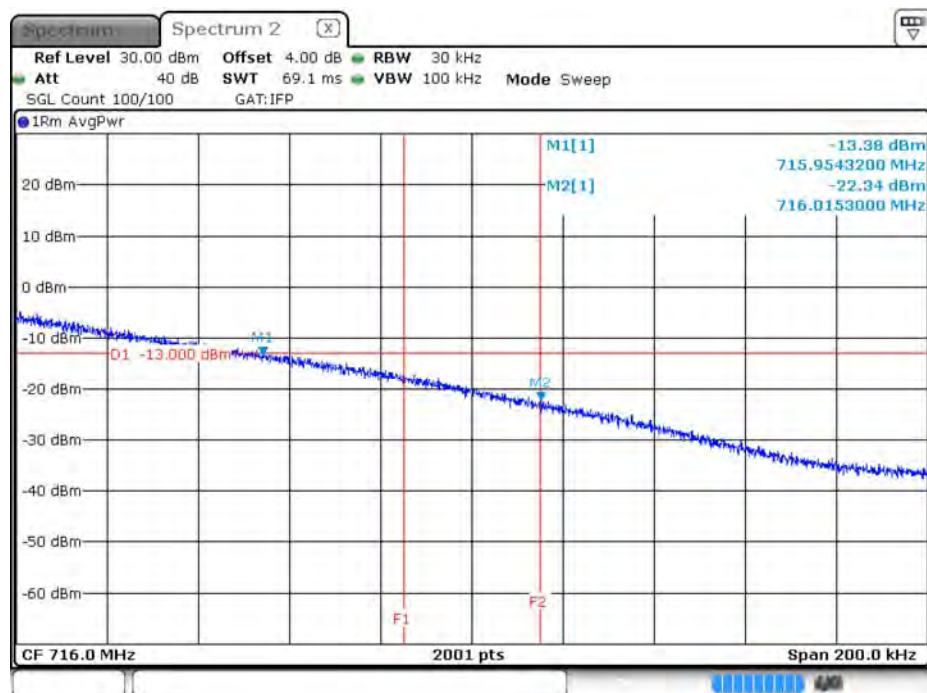
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B12_CH23165_3M_QPSK_1RB14_150k

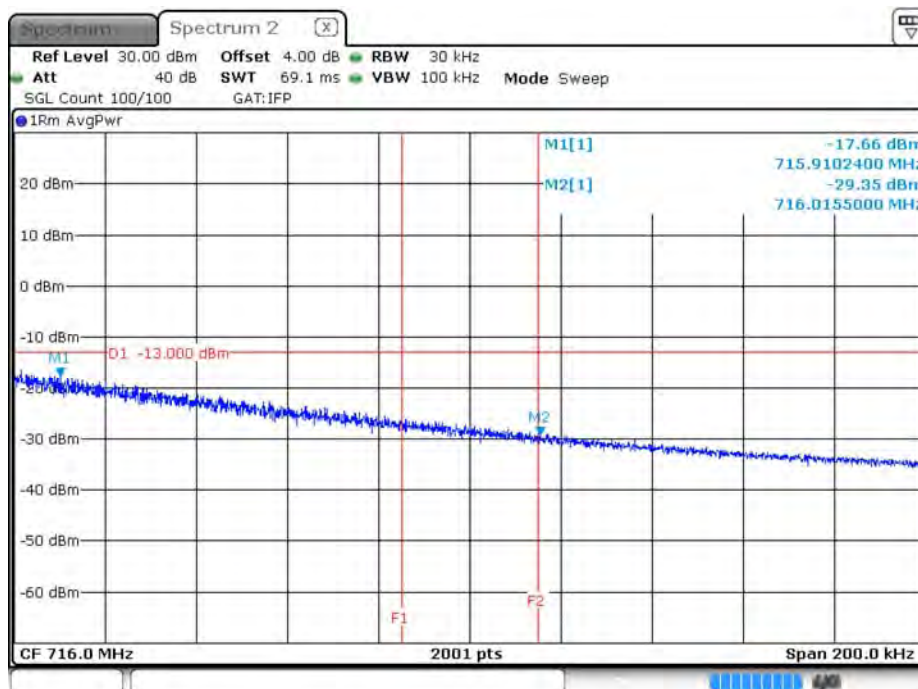
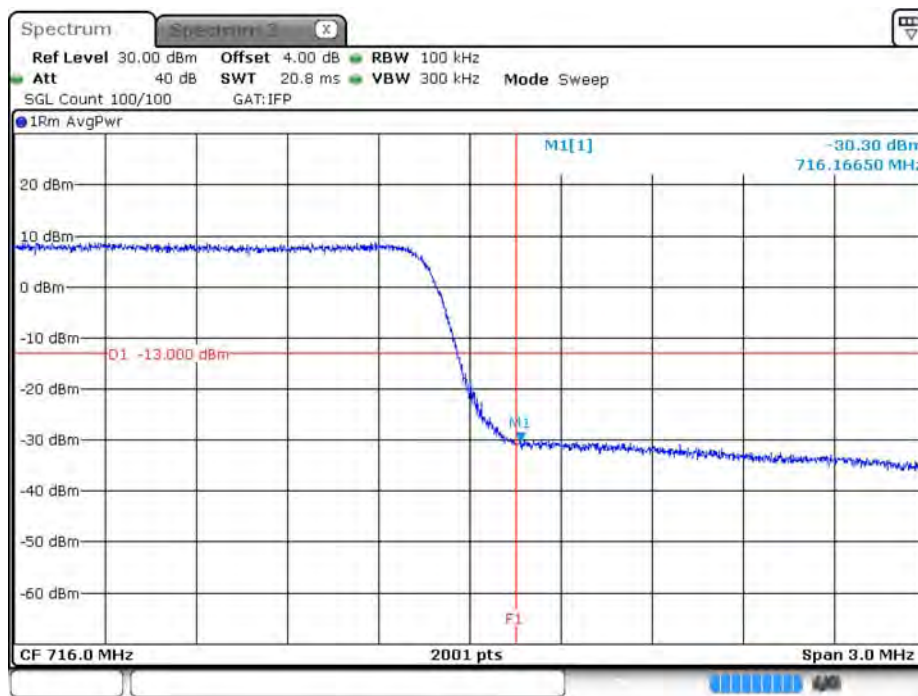


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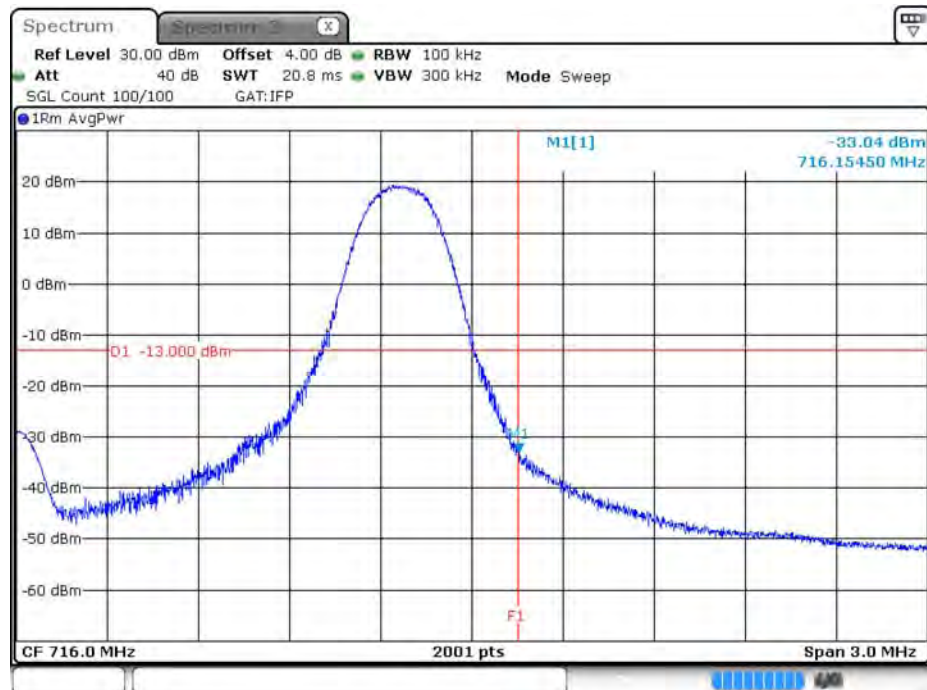
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Date: 19.DEC.2019 14:14:39

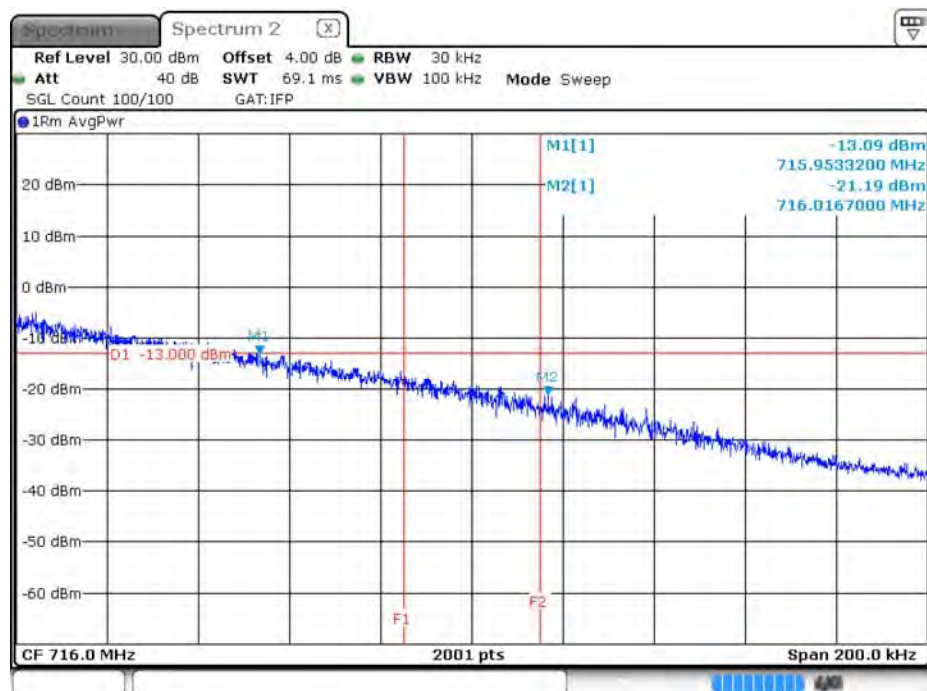


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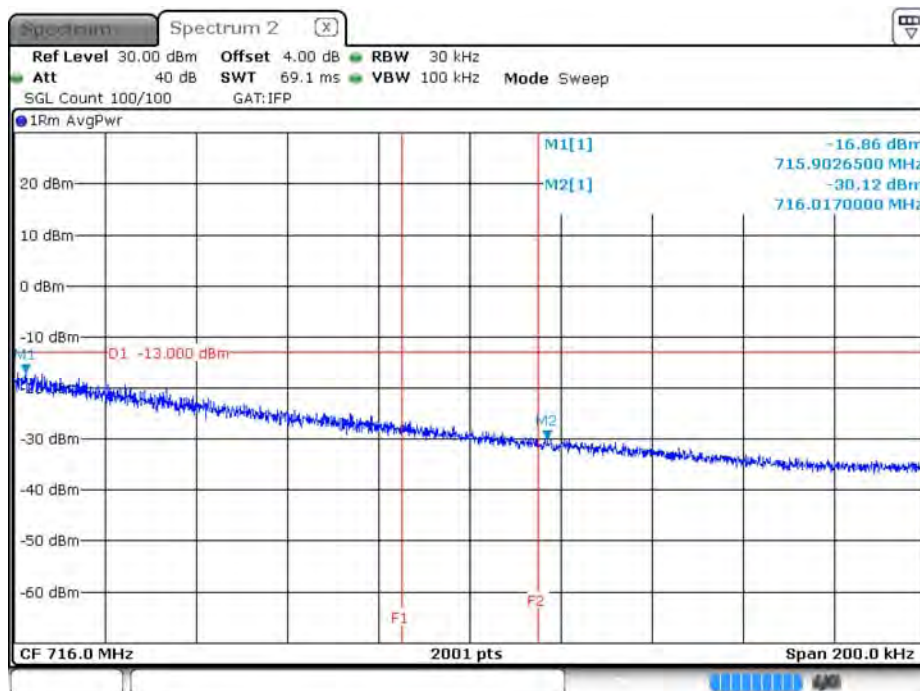
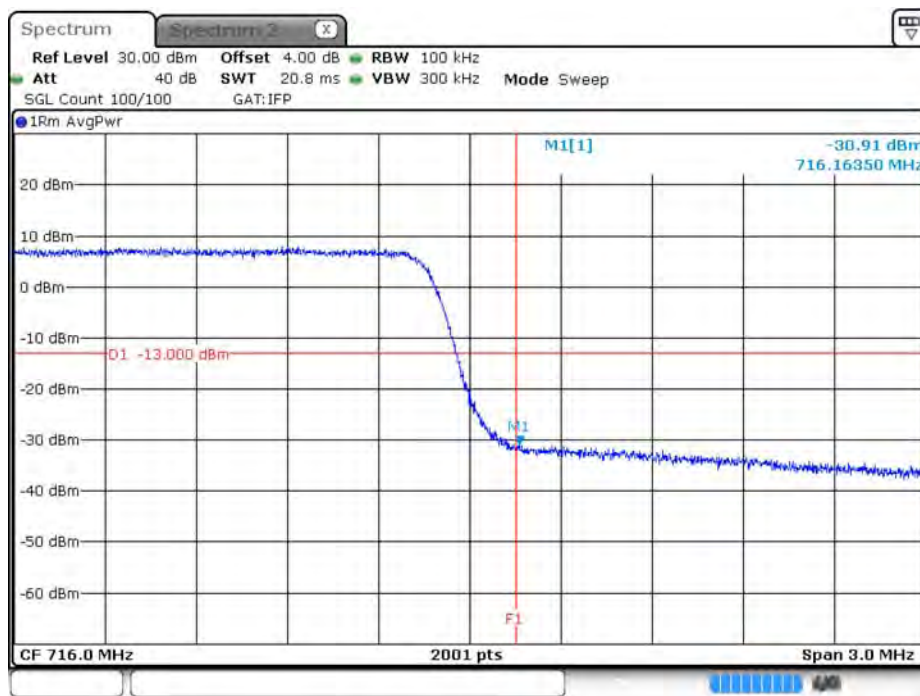


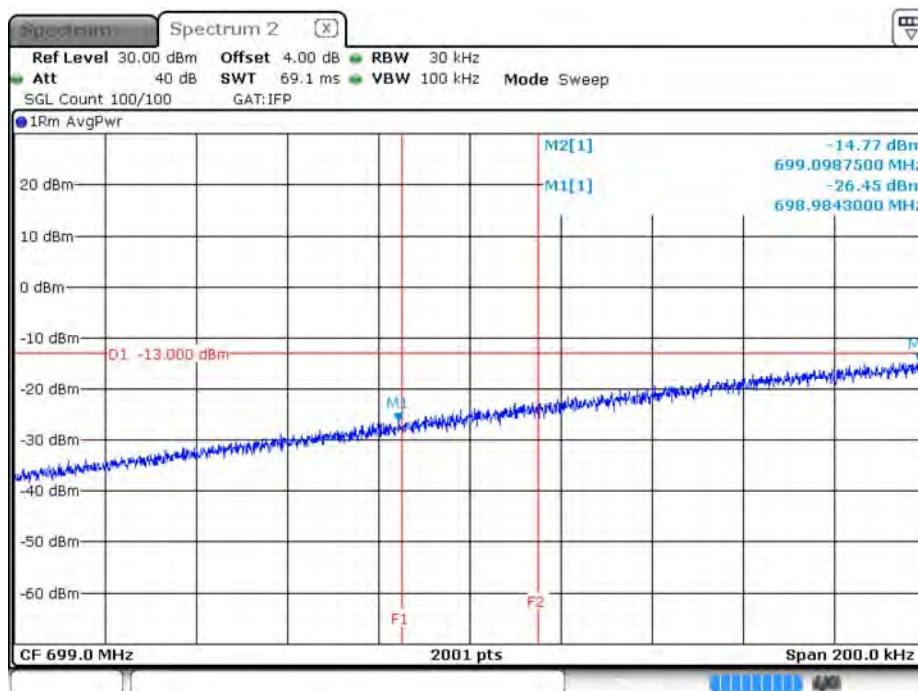
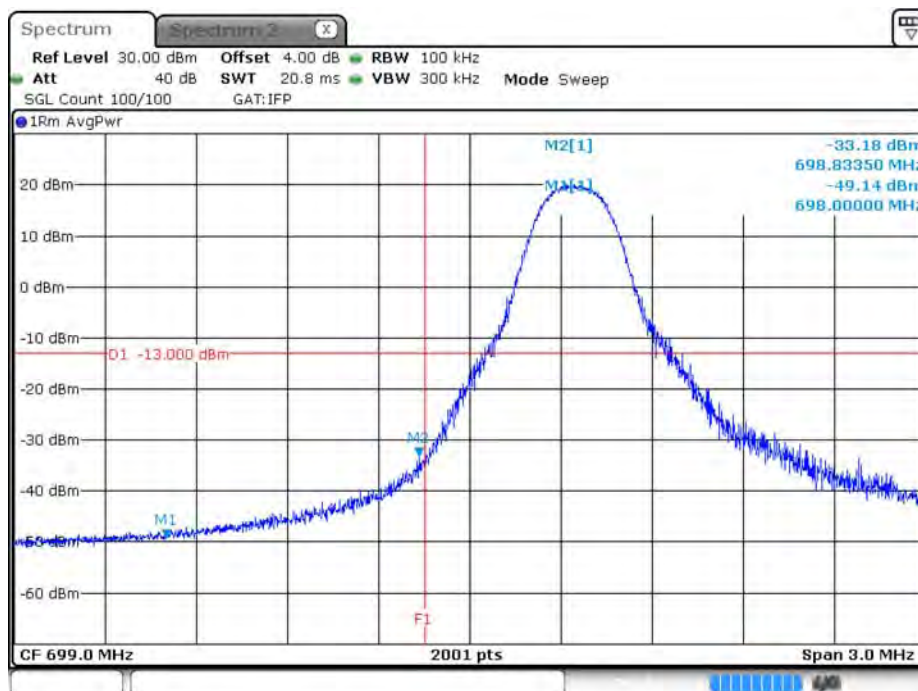
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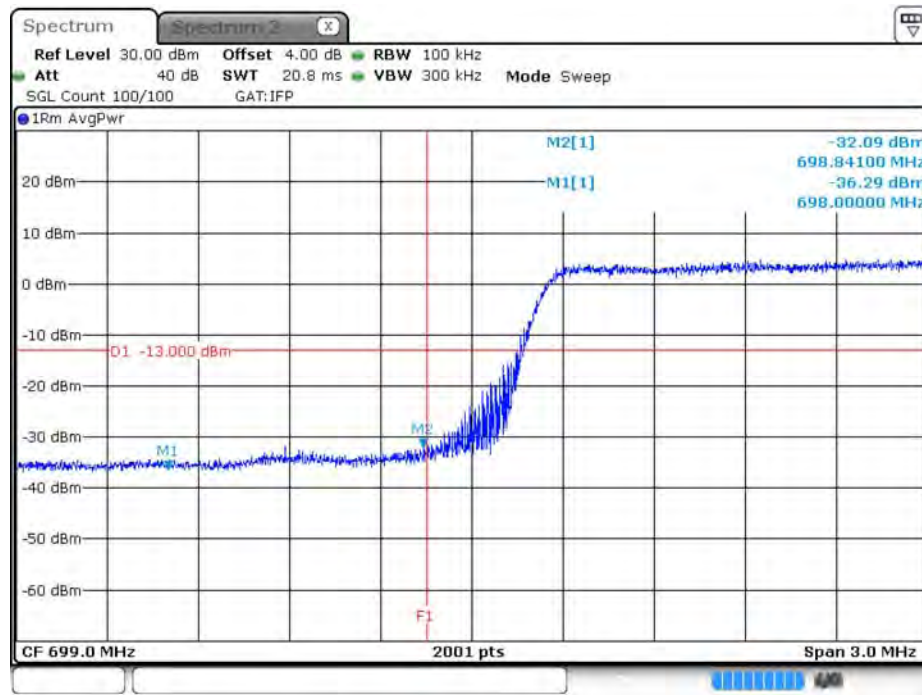


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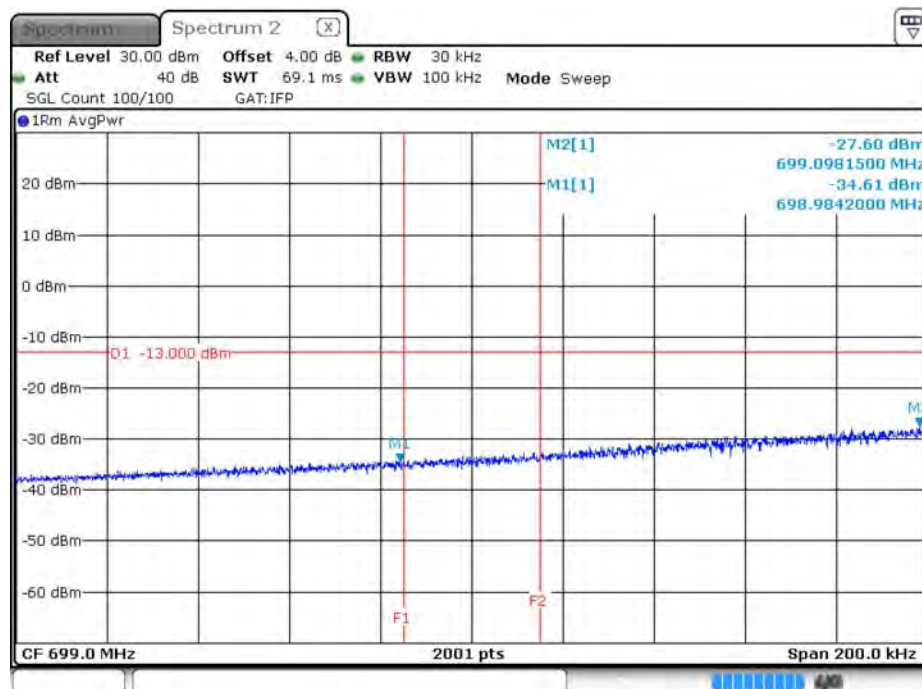


B12_CH23035_5M_QPSK_25RB0_150k



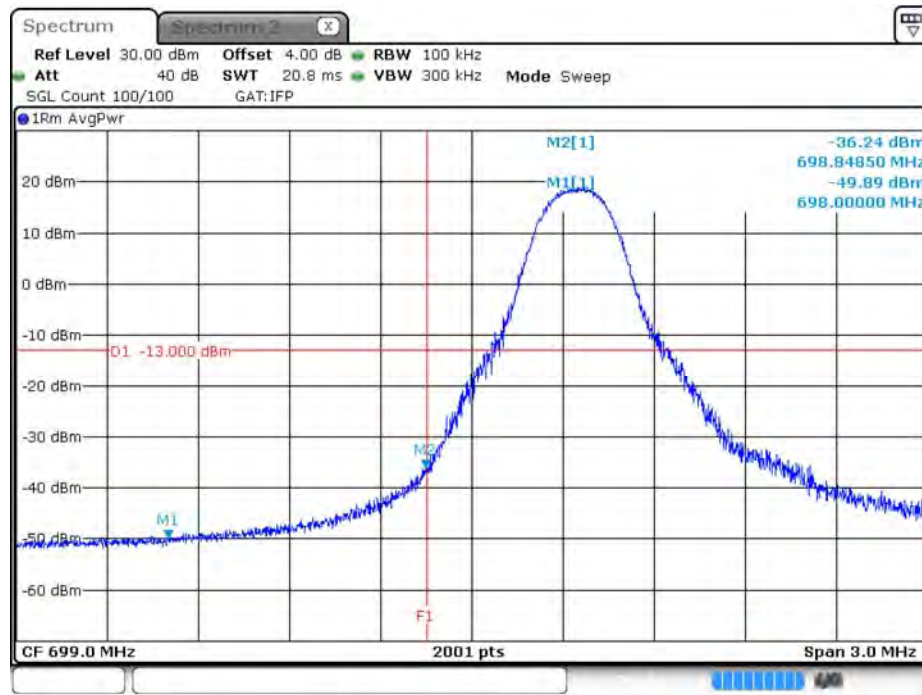
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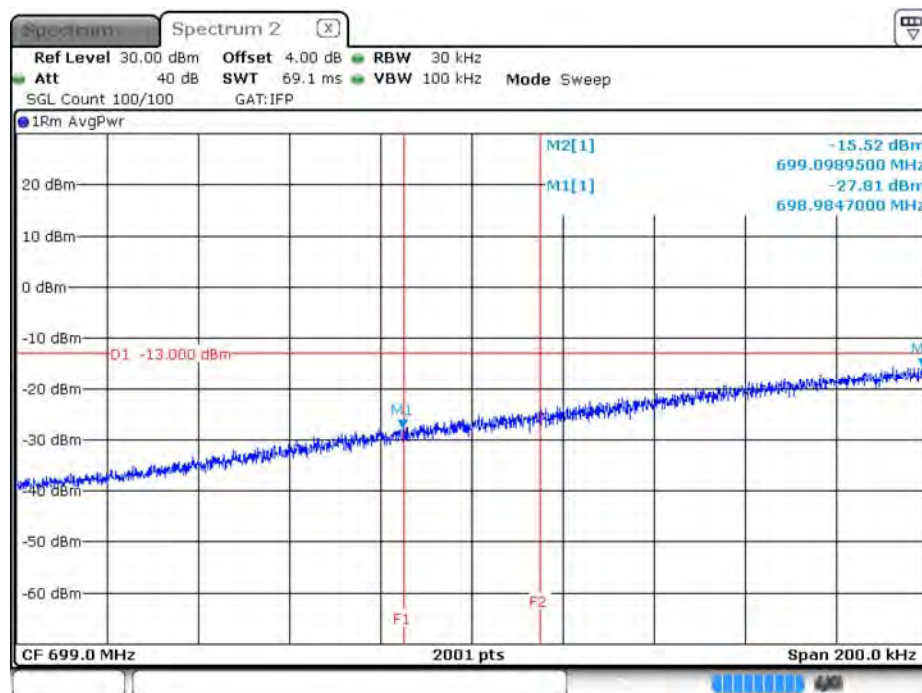
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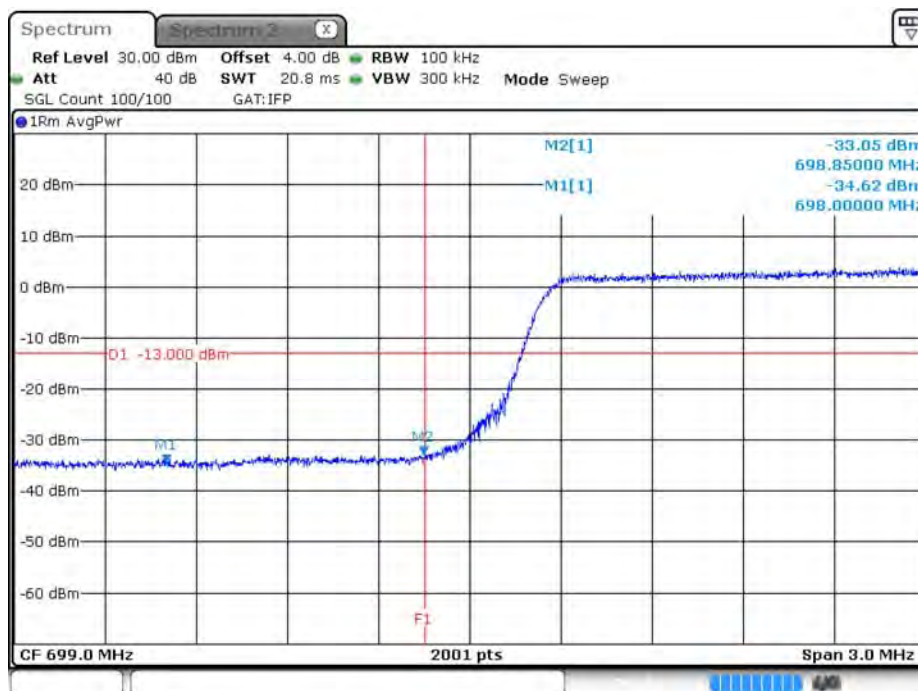
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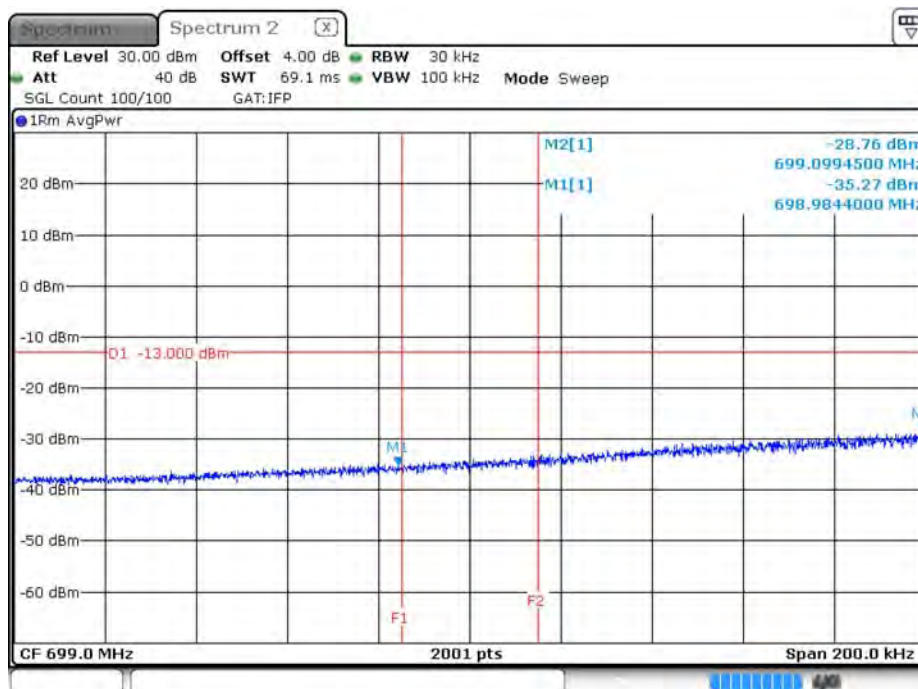
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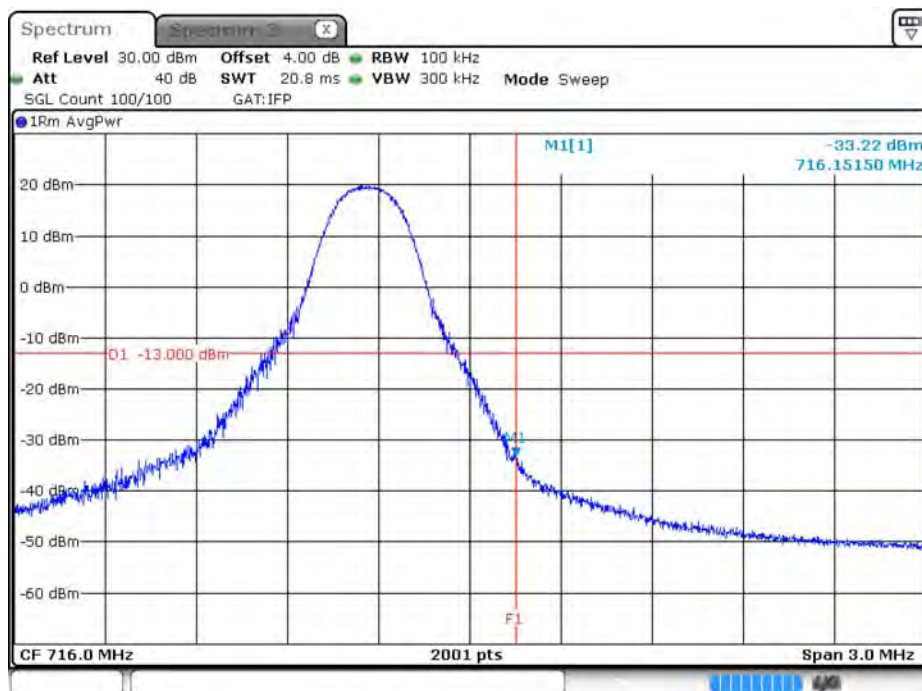
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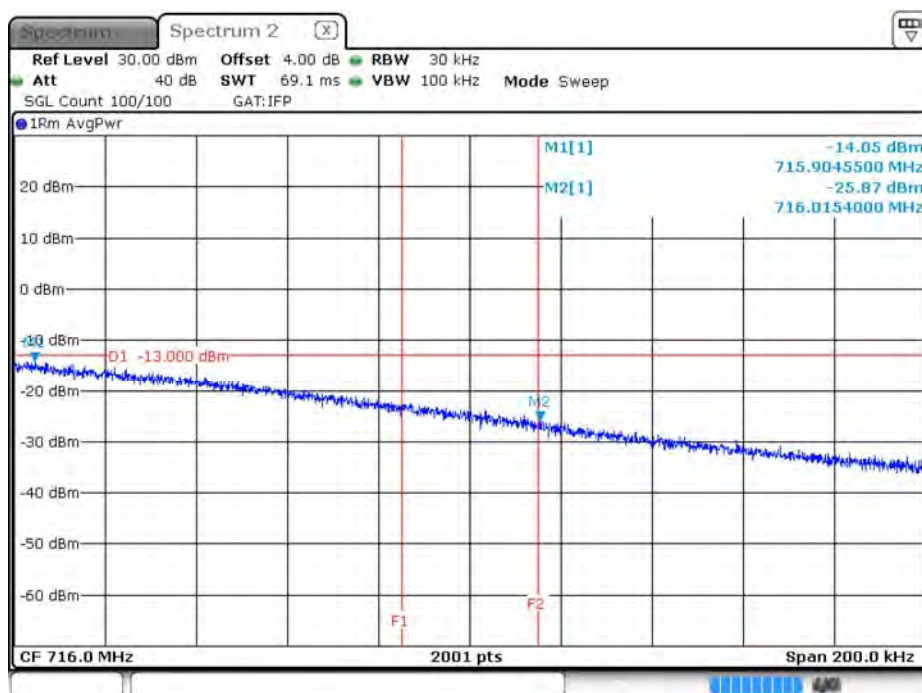
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B12_CH23155_5M_QPSK_1RB24_150k



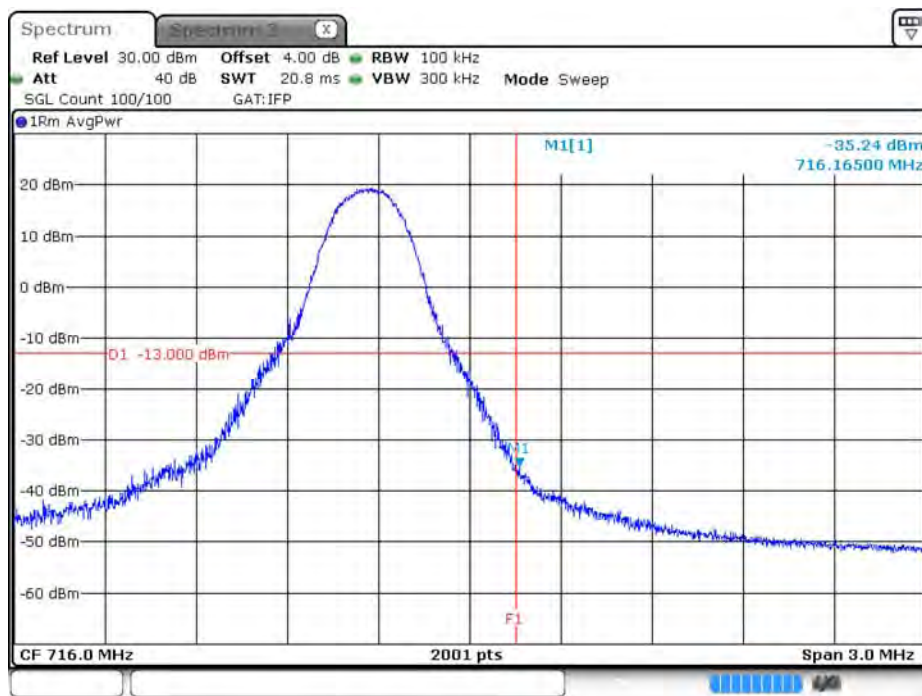
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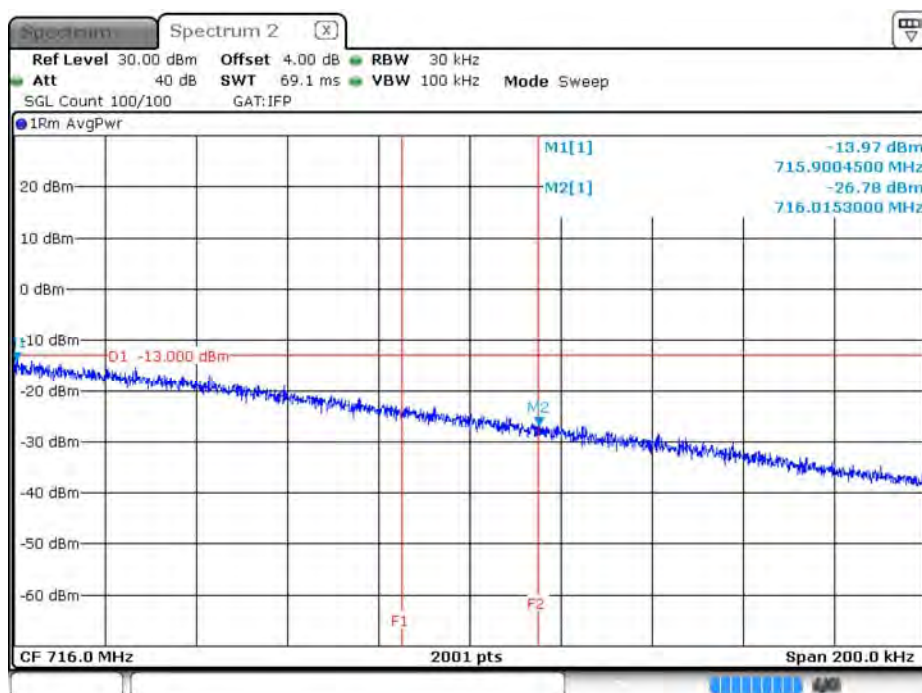
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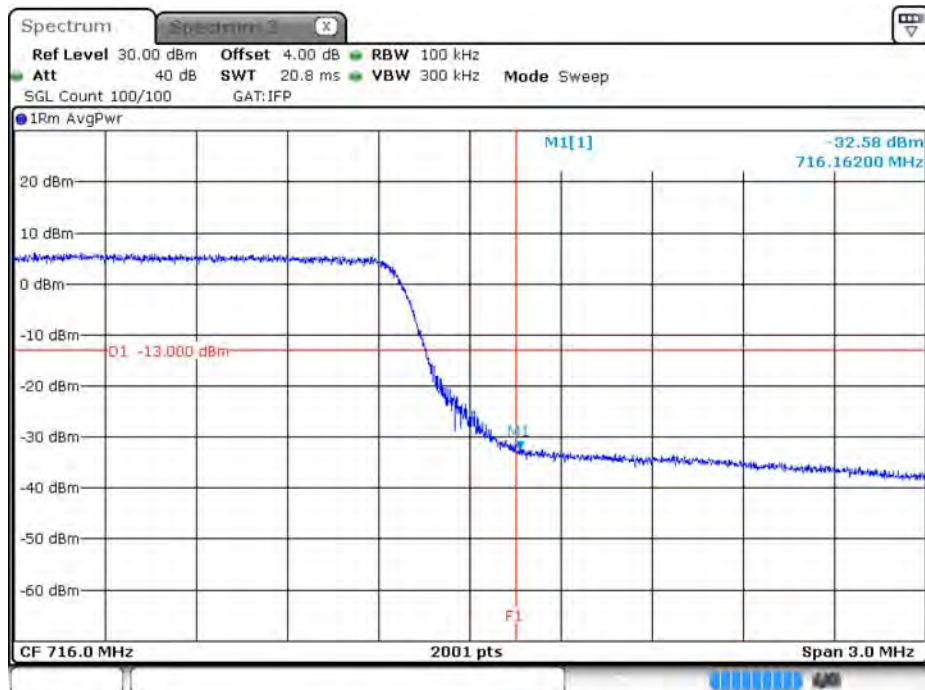
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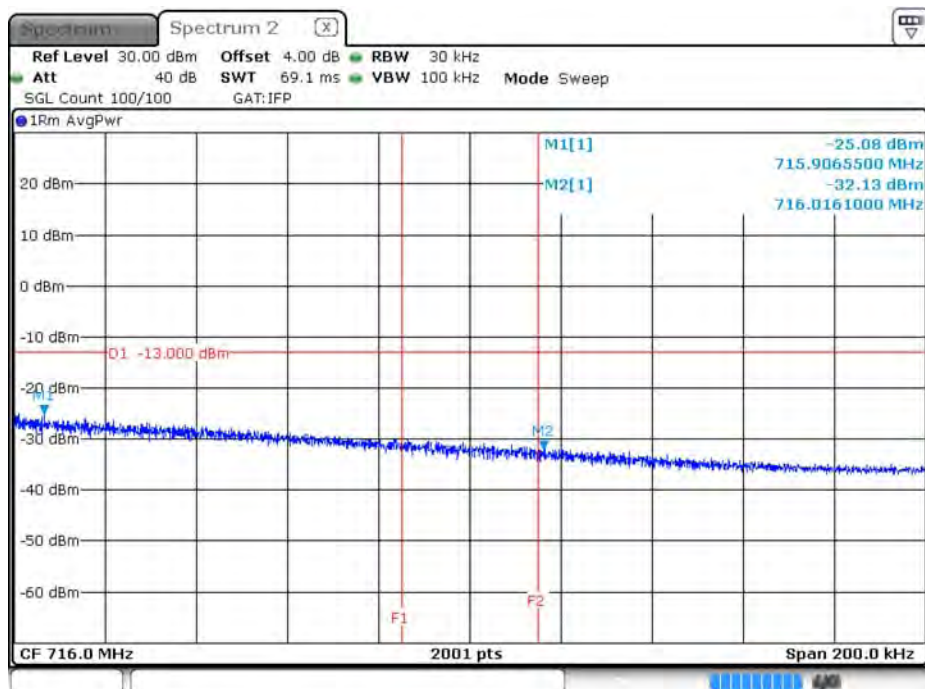
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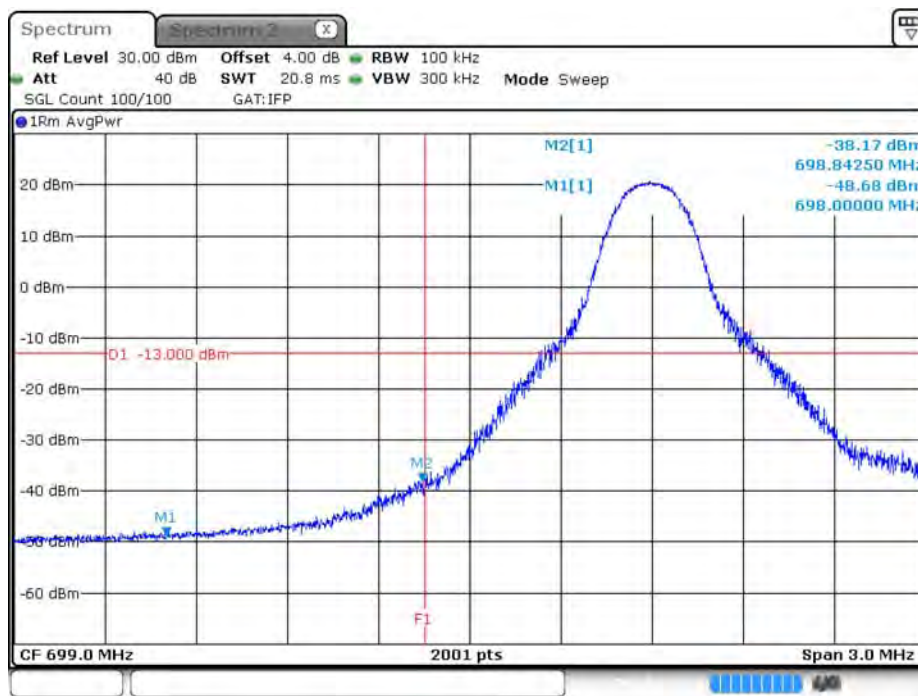
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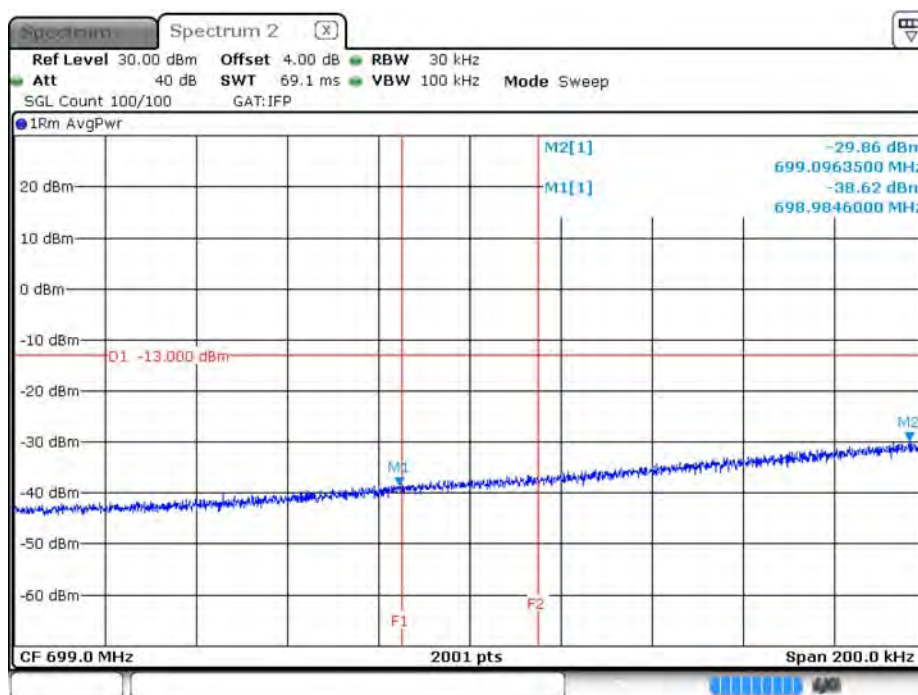
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B12_CH23060_10M_QPSK_1RB0_150k



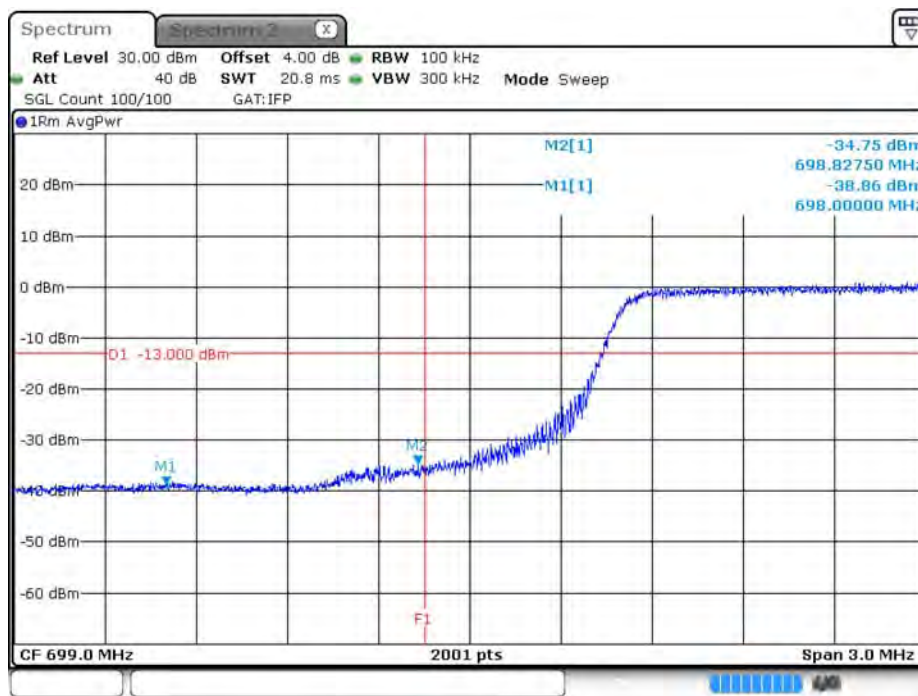
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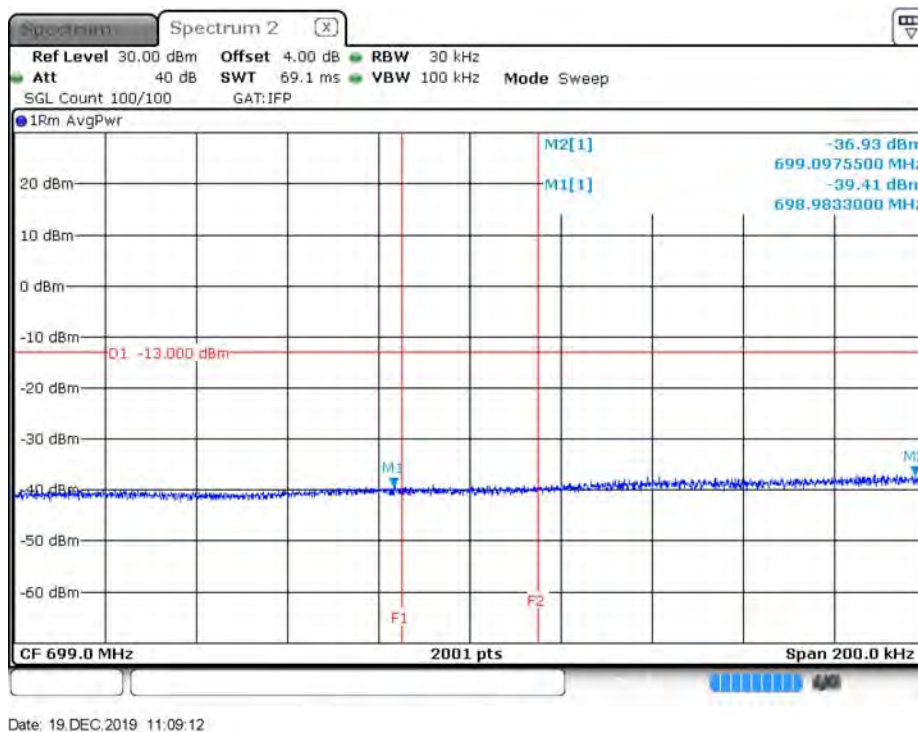


Date: 19.DEC.2019 11:08:20

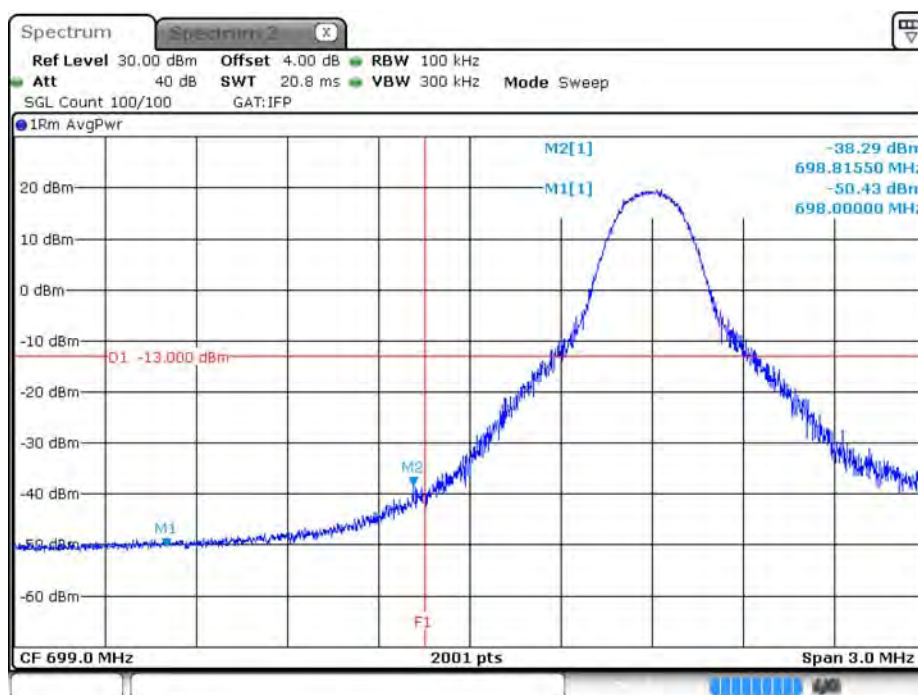
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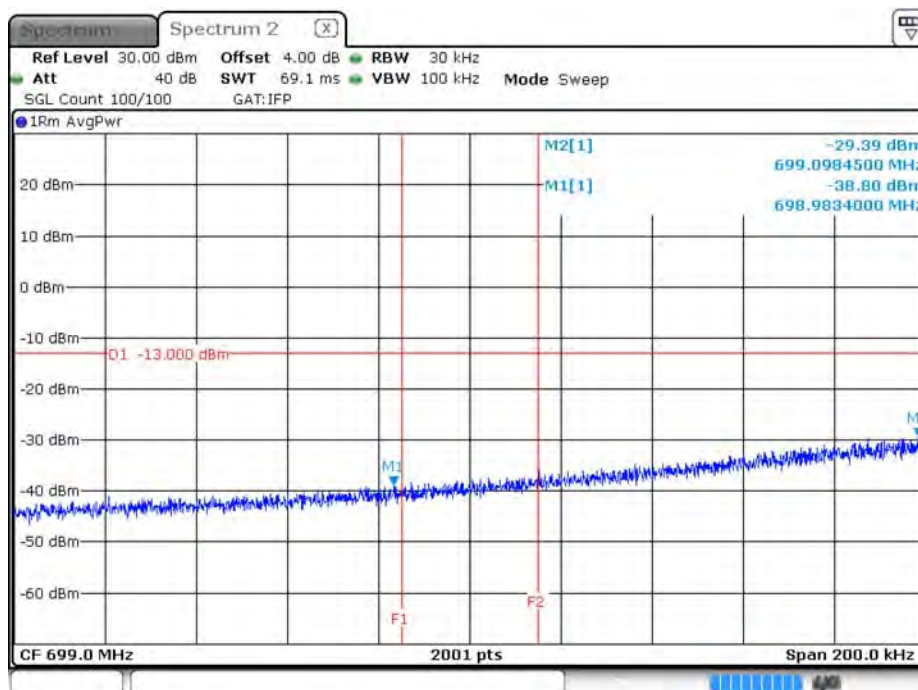


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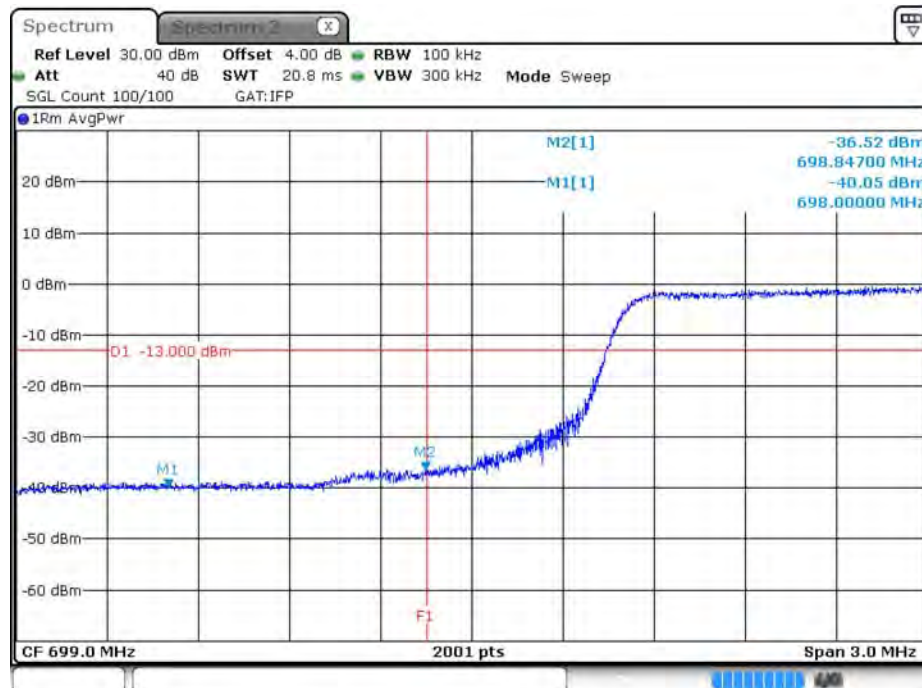
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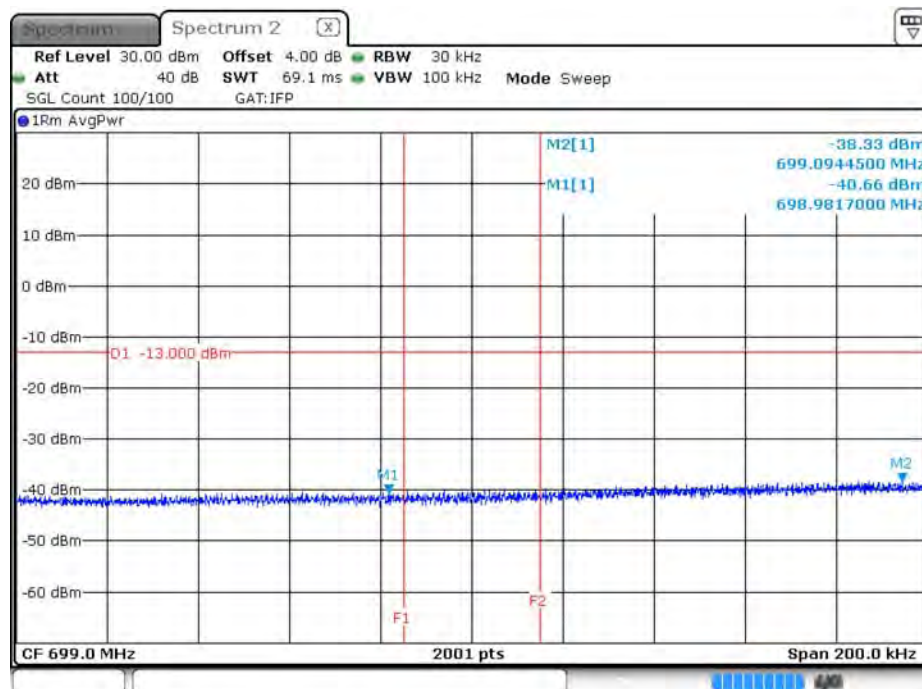
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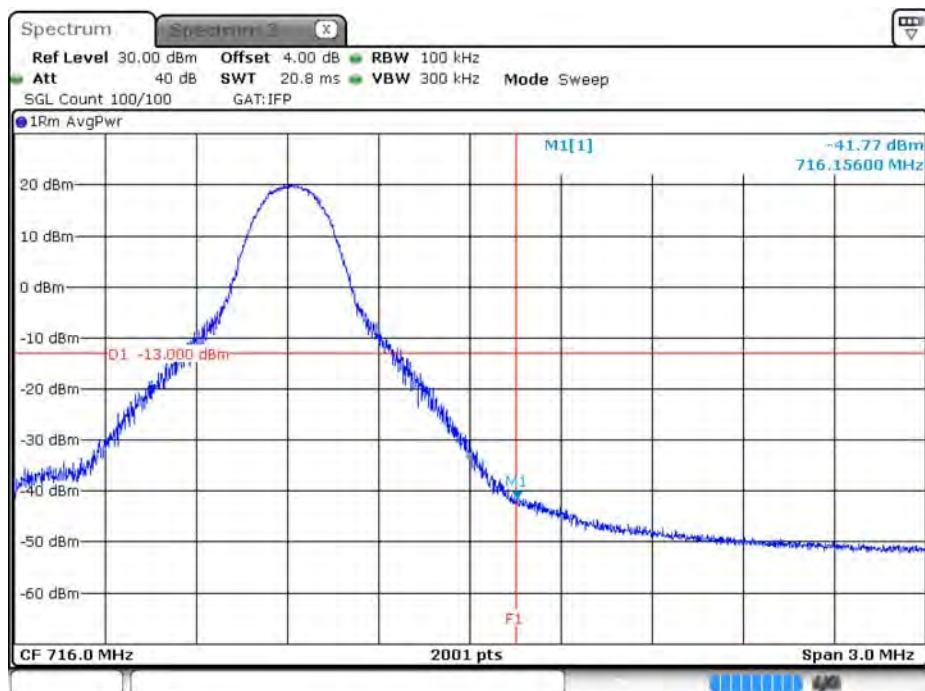
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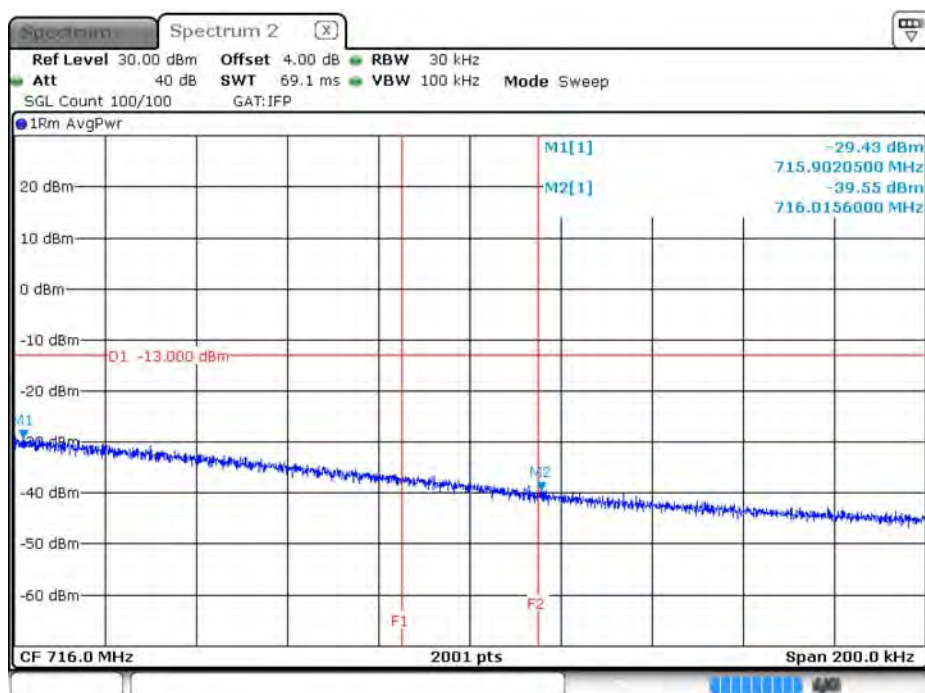
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B12_CH23130_10M_QPSK_1RB49_150k



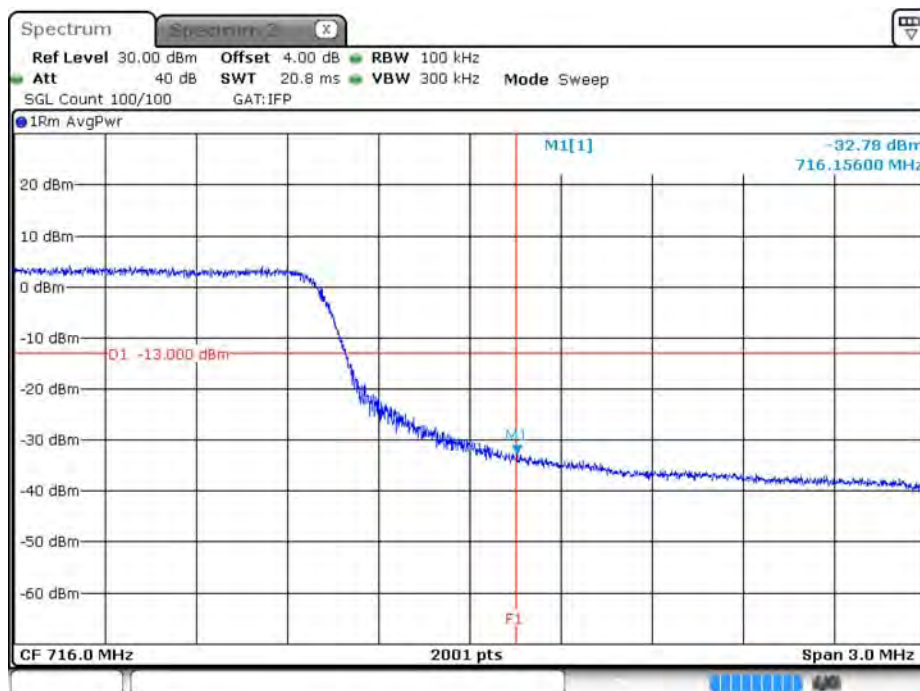
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12_CH23130_10M_QPSK_1RB49_15k



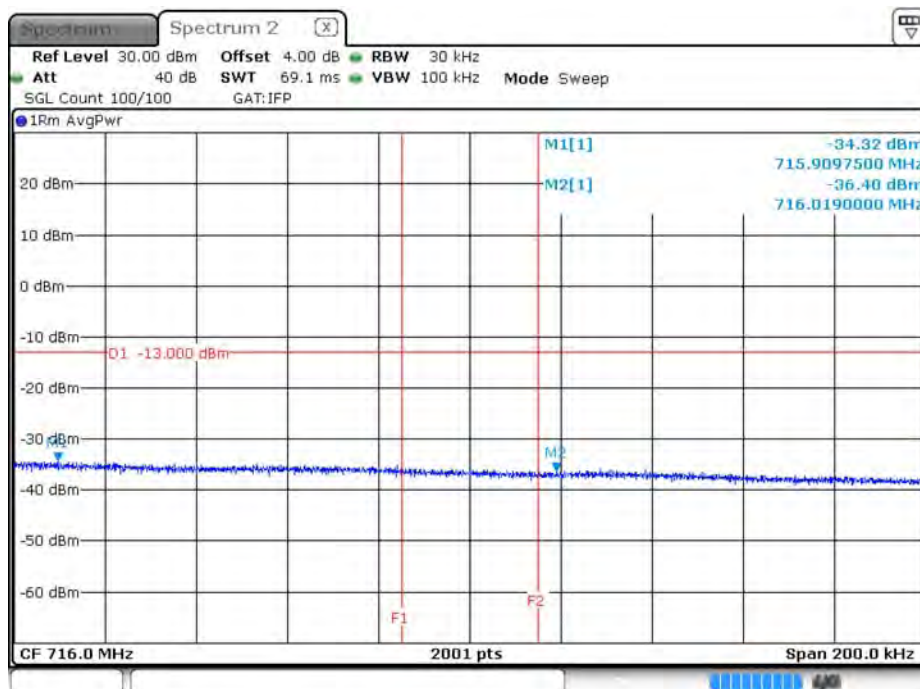
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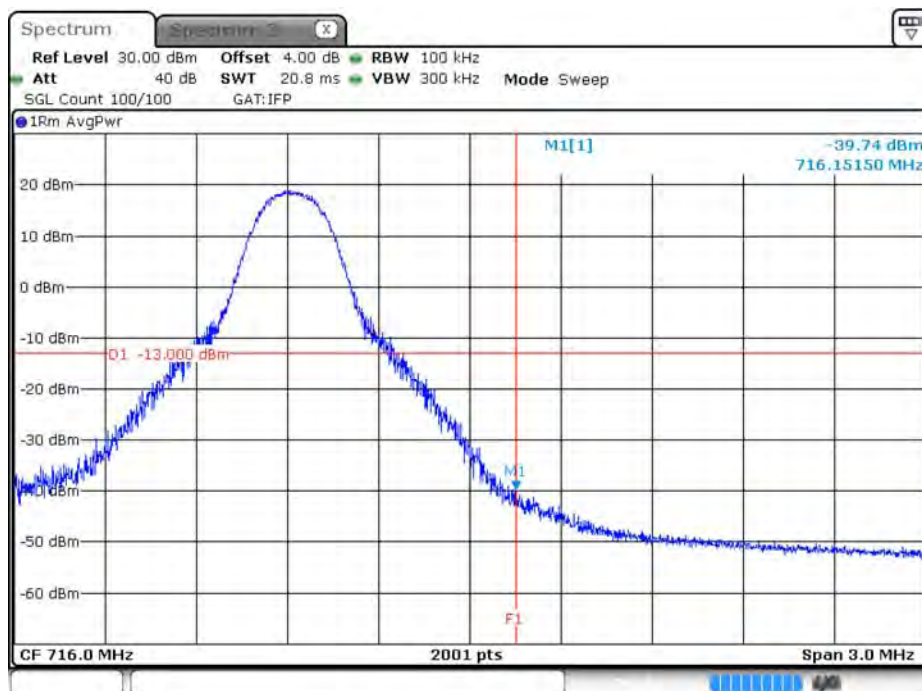
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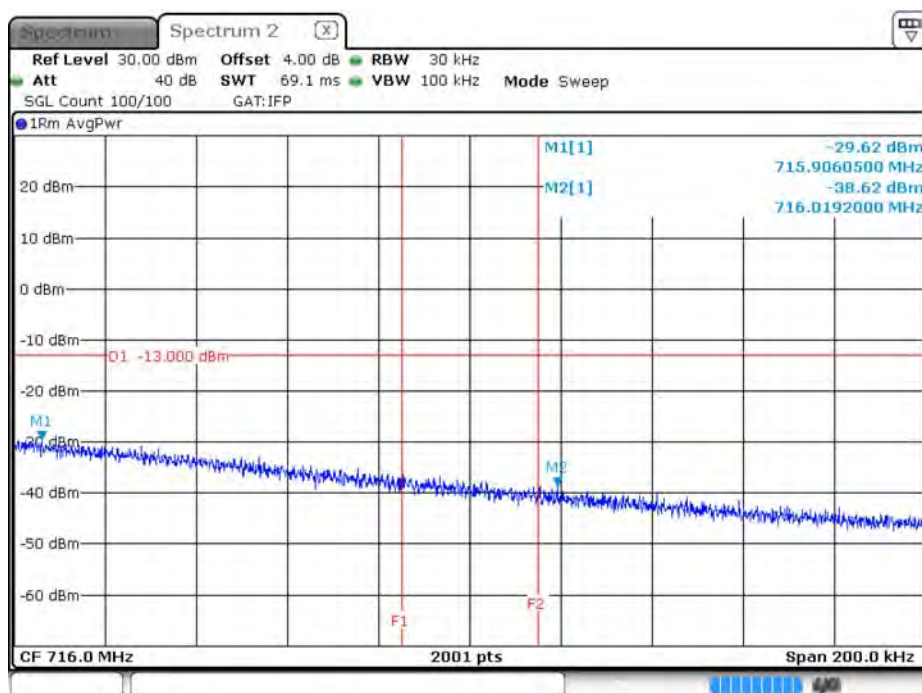
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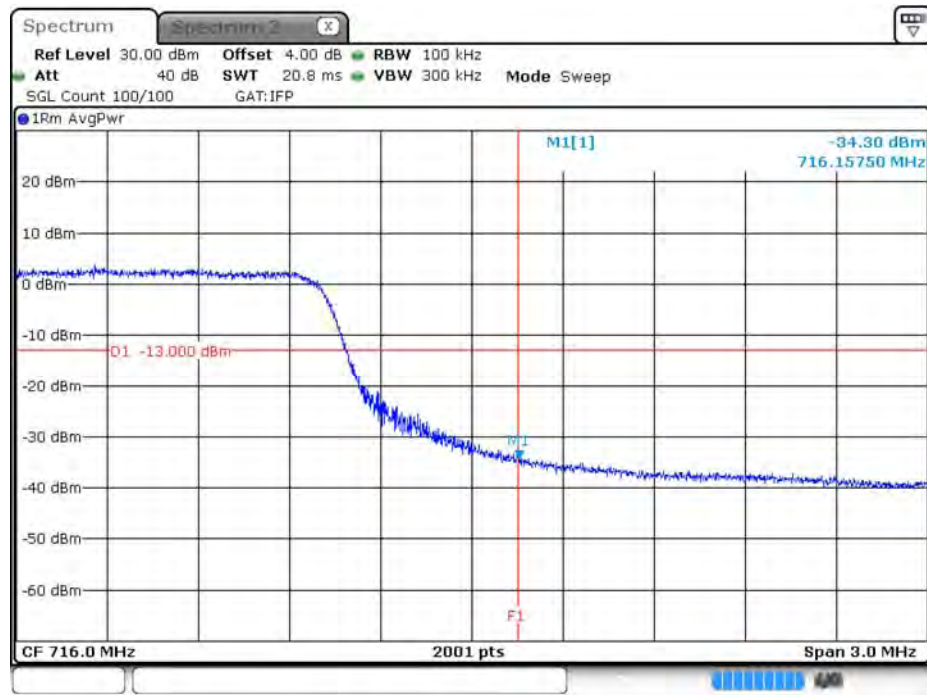
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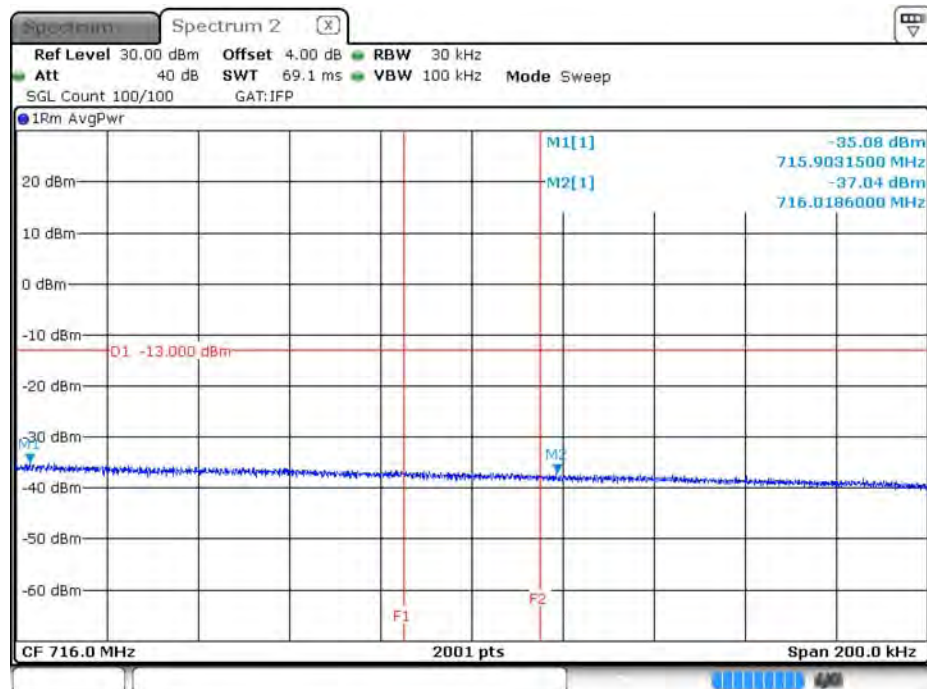
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B12_CH23130_10M_16-QAM_50RB0_150k



Date: 19.DEC.2019 15:54:07

B12_CH23130_10M_16-QAM_50RB0_15k



Date: 19.DEC.2019 15:54:37