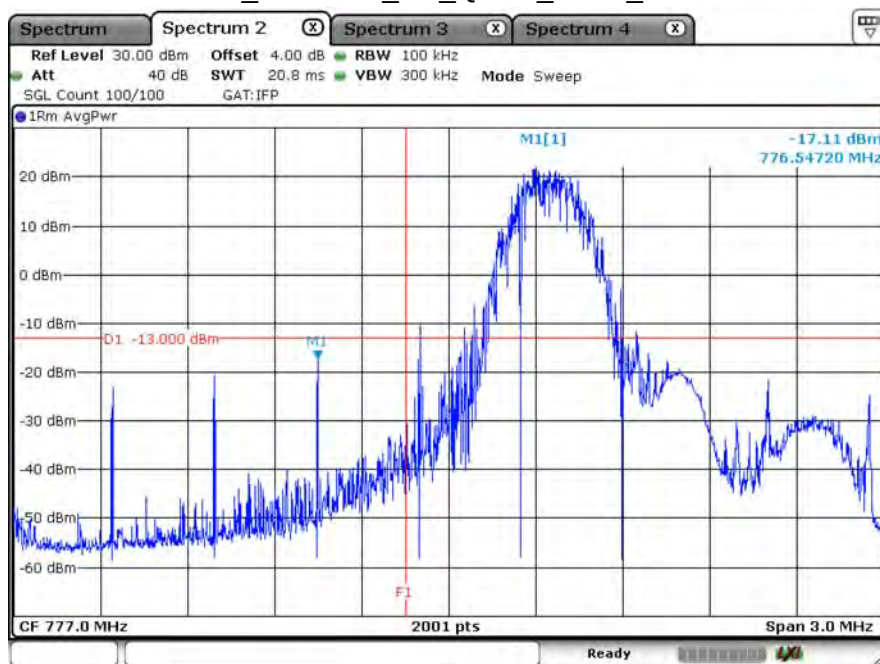
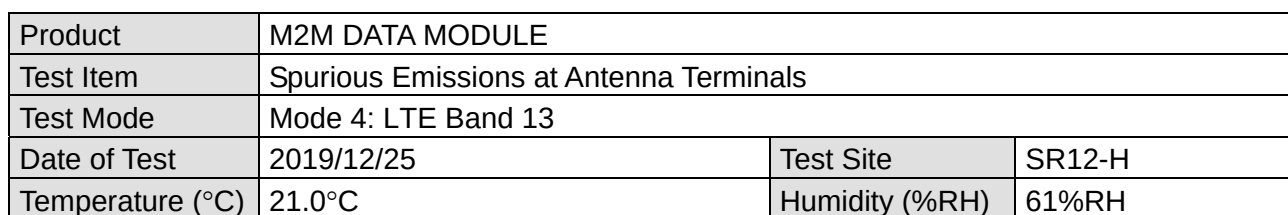
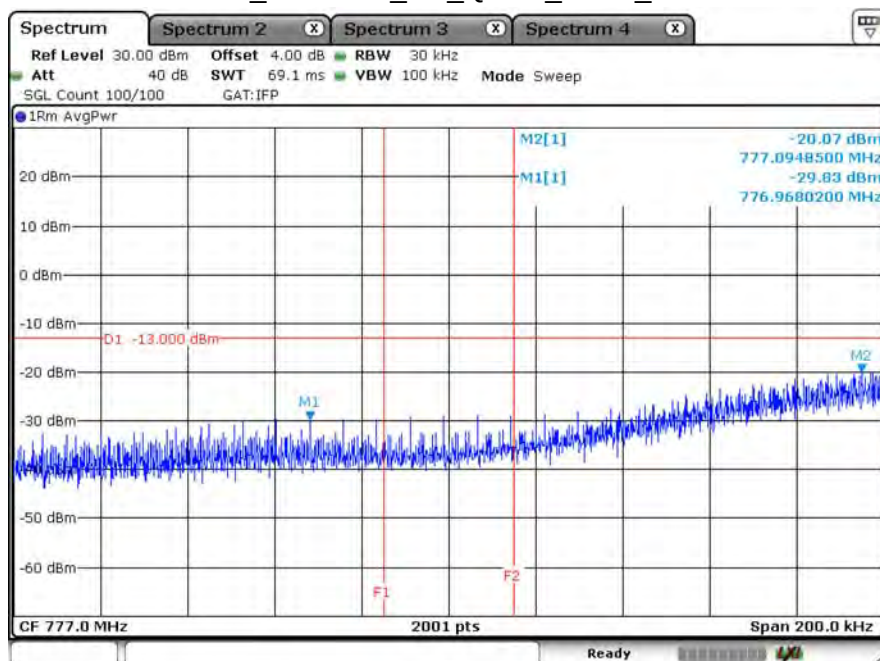


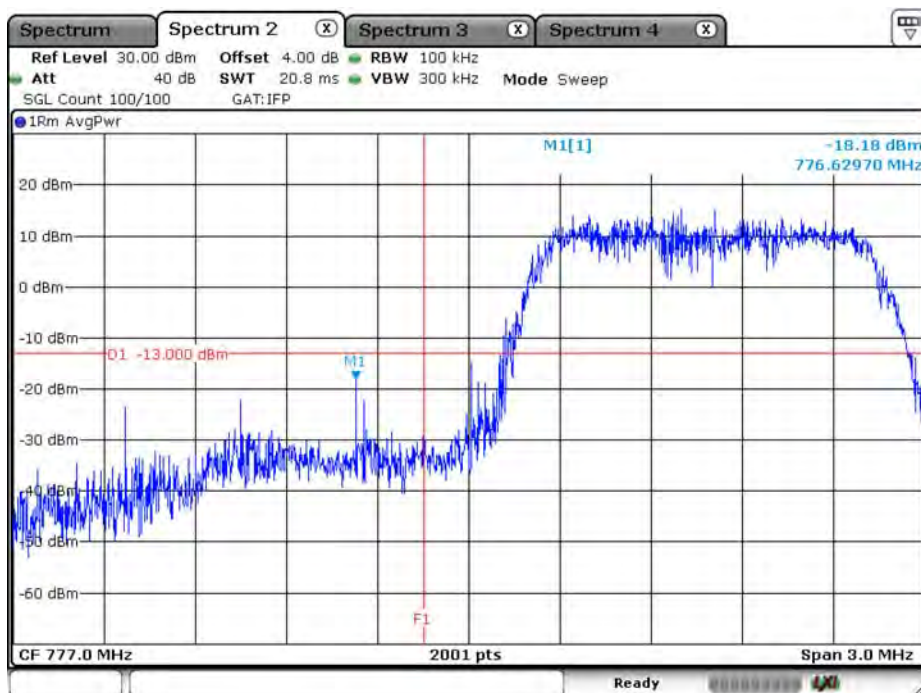


Date: 25 DEC 2019 15:34:47



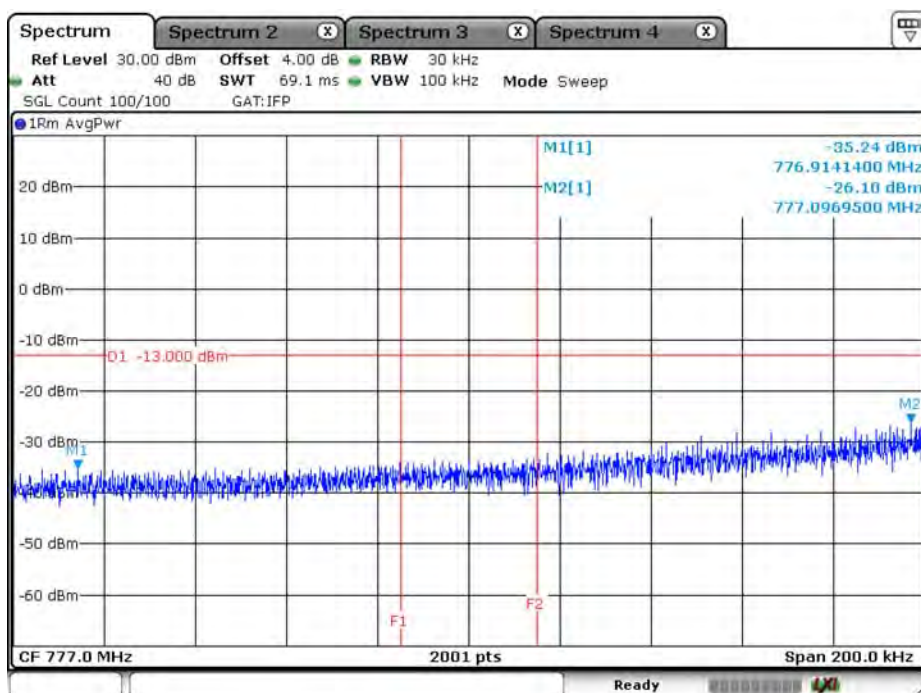
Date: 25 DEC 2019 15:35:21

B13_CH23205_5M_QPSK_6RB0_150k



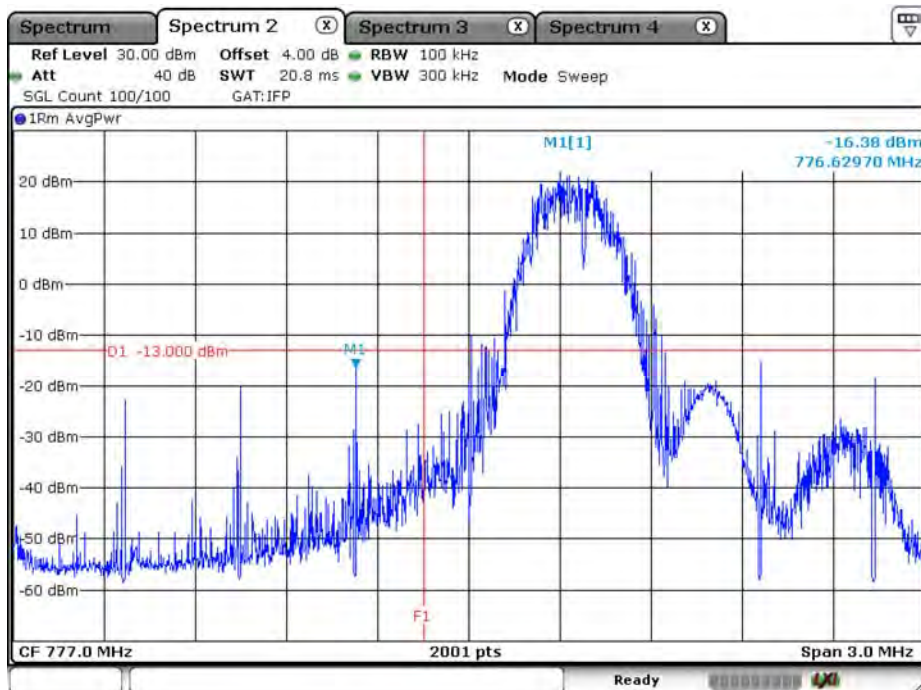
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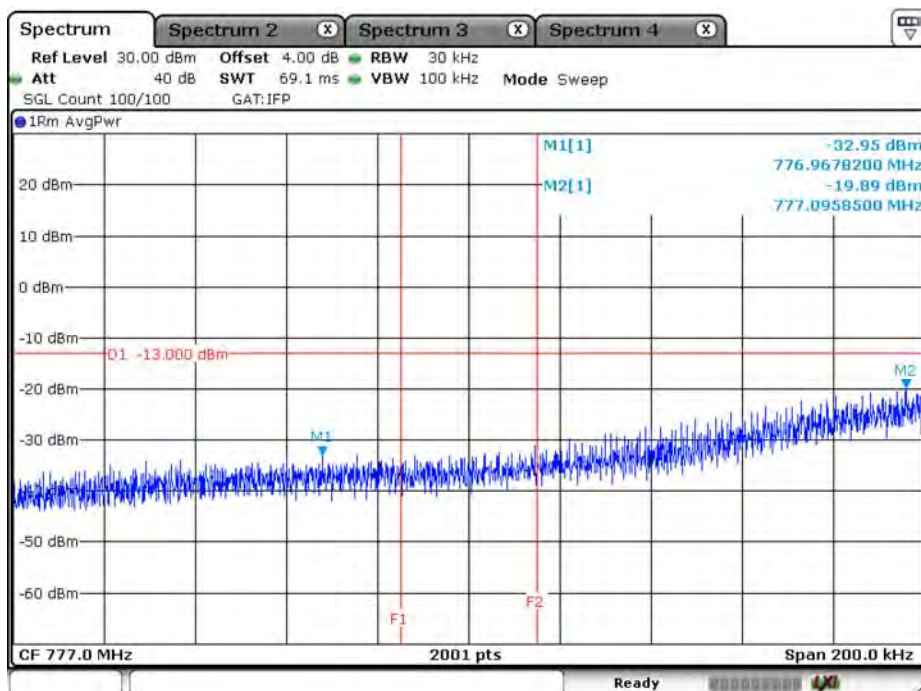
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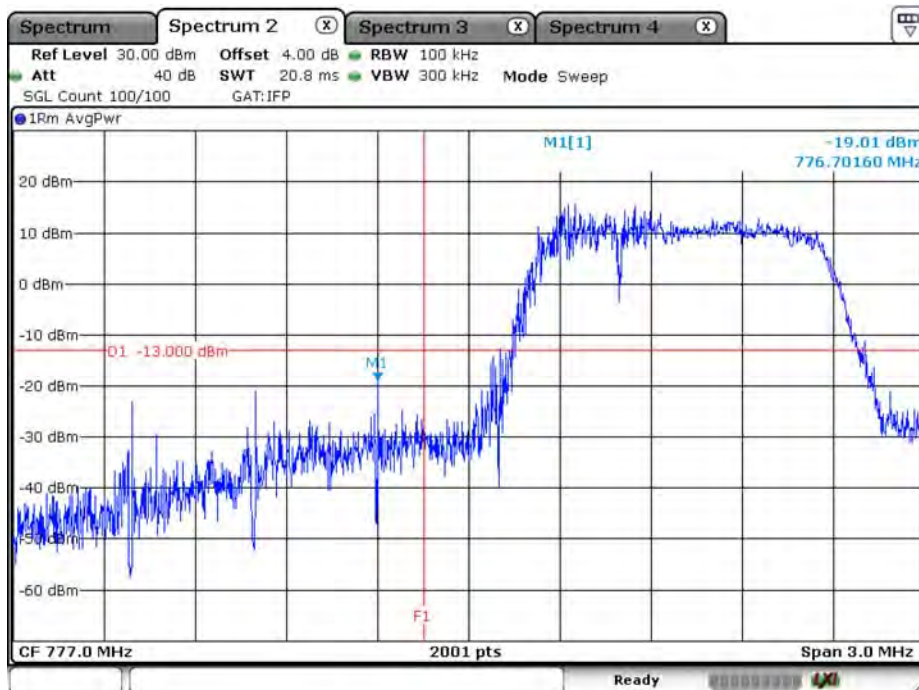
Date: 25.DEC.2019 15:33:43

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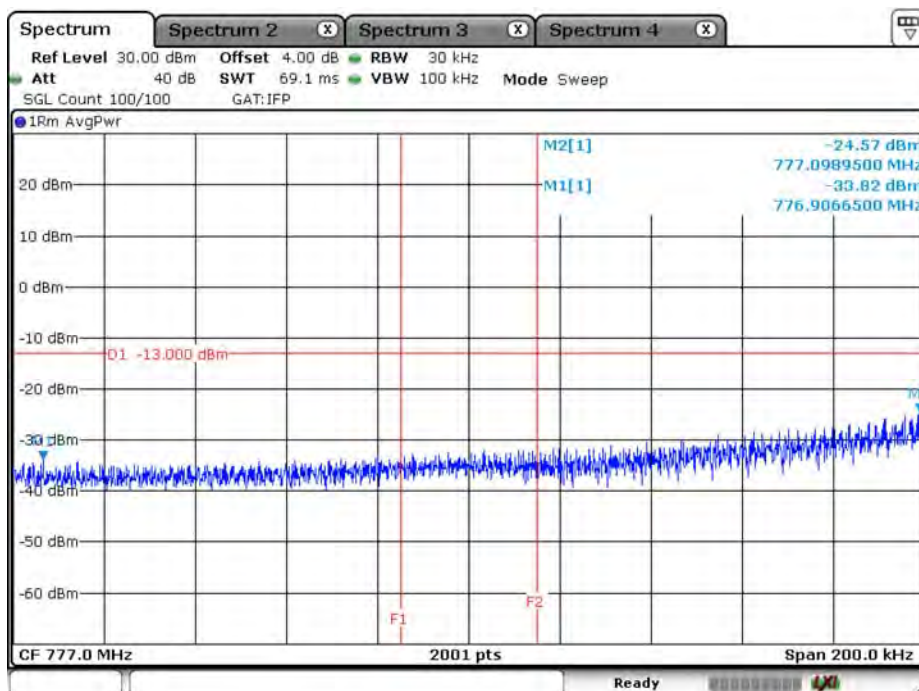
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B13_CH23205_5M_16-QAM_5RB0_150k



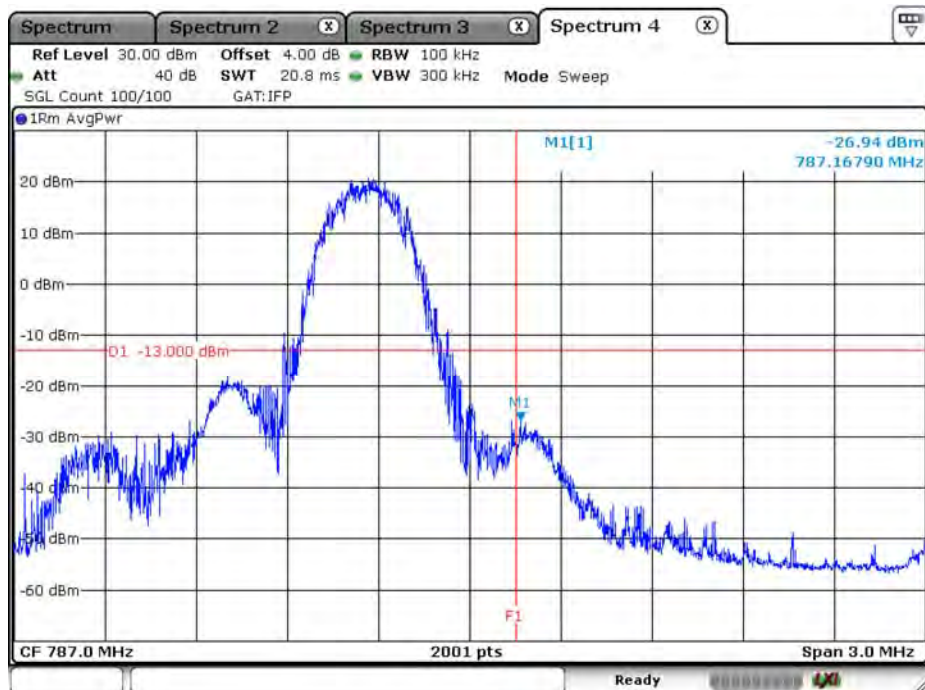
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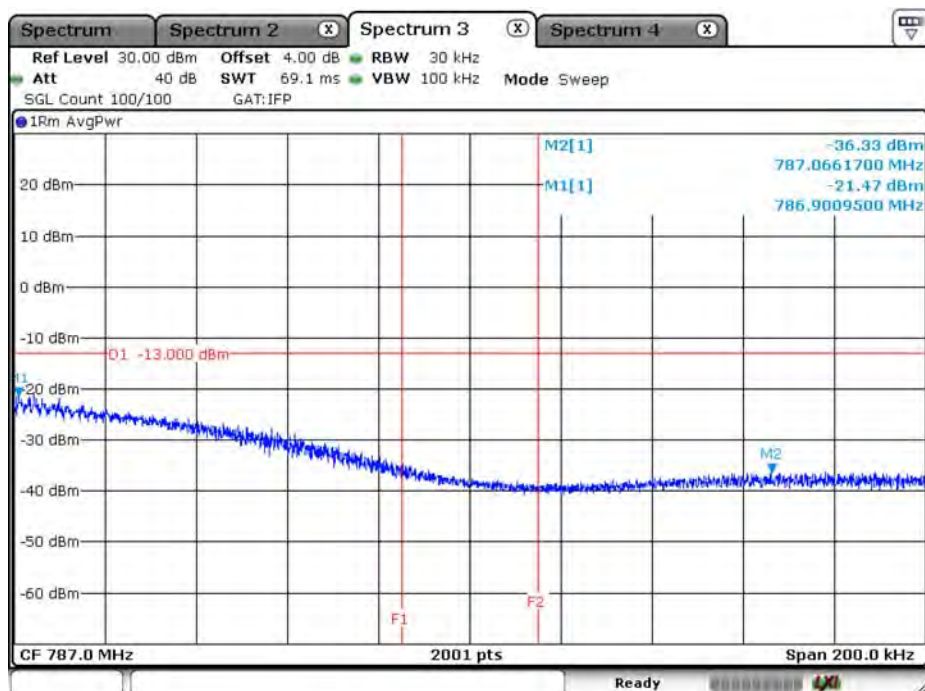
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B13_CH23255_5M_QPSK_1RB5_150k



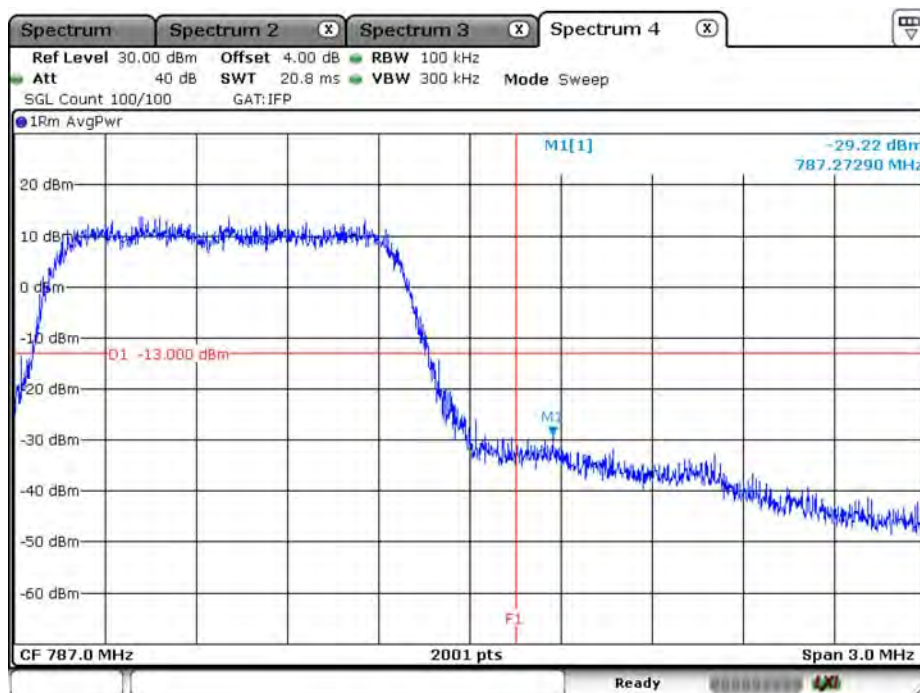
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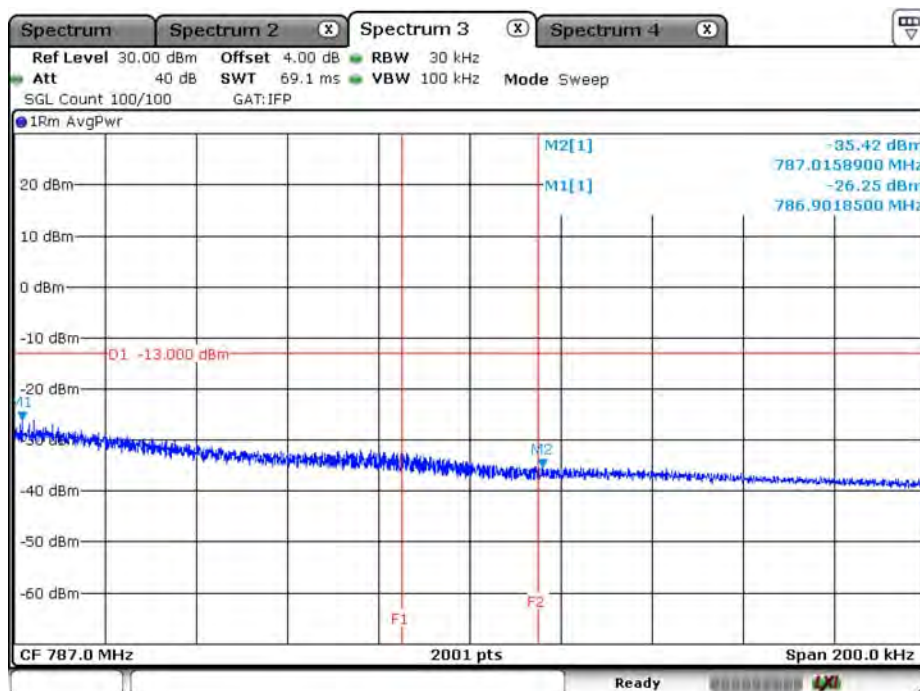
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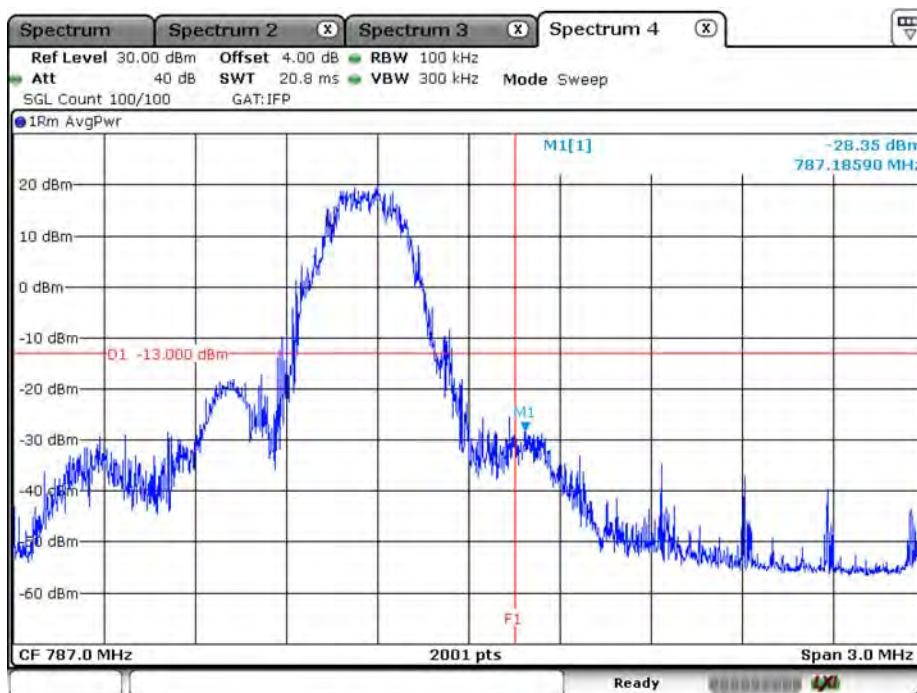
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B13_CH23255_5M_QPSK_6RB0_15k



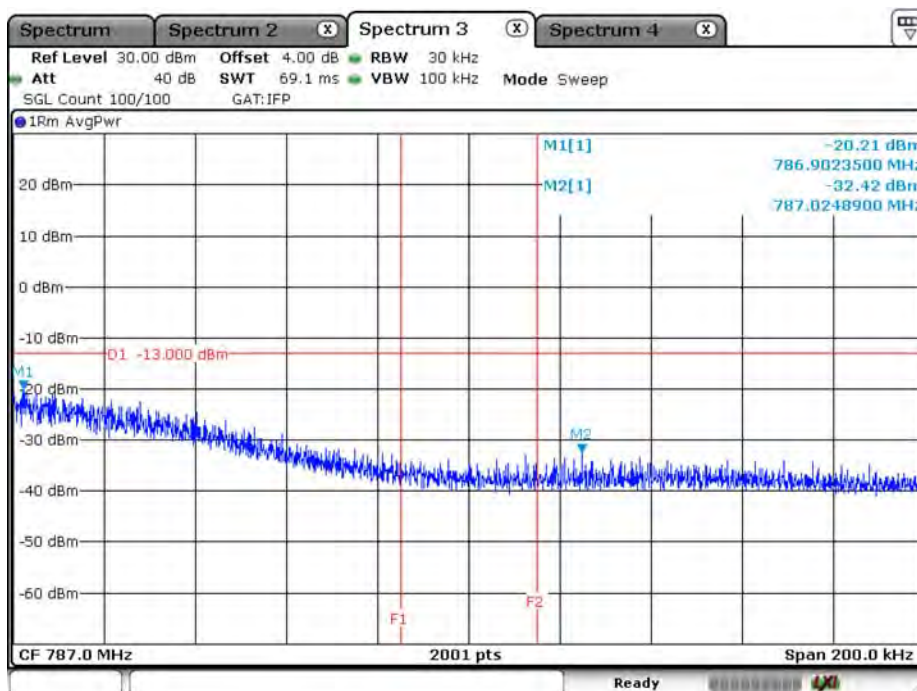
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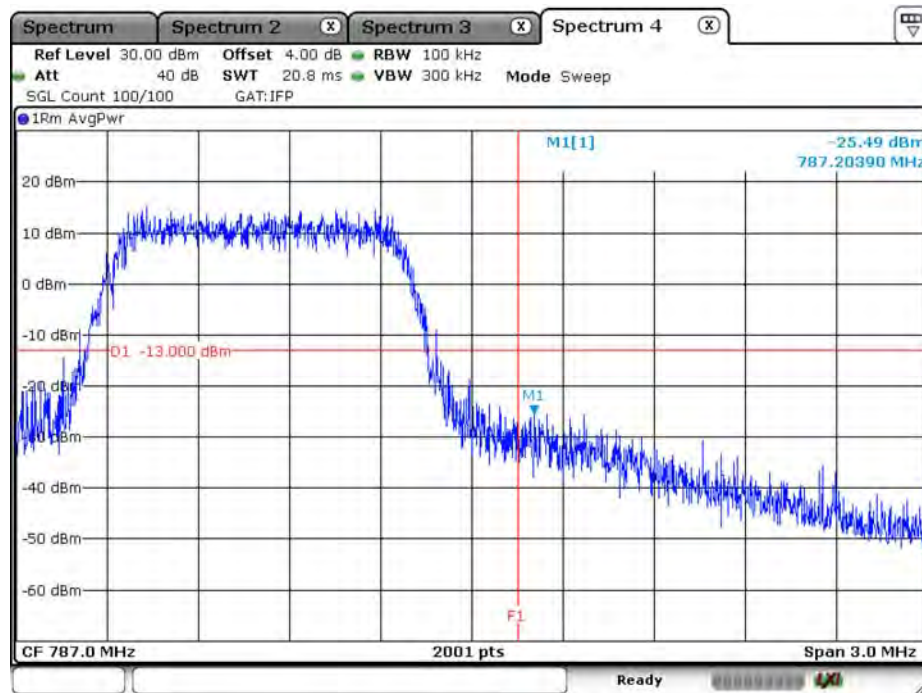
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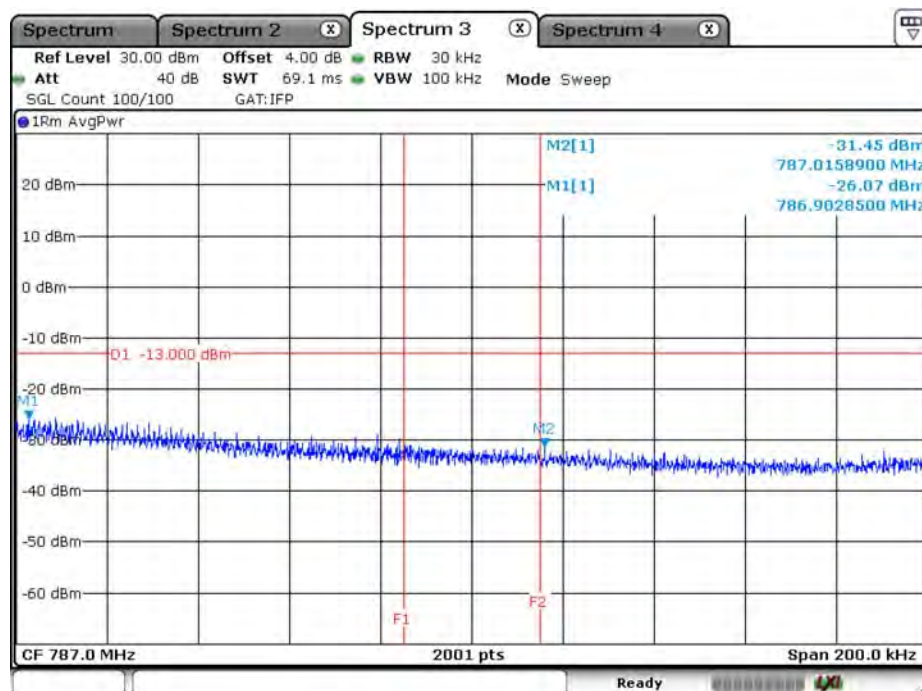
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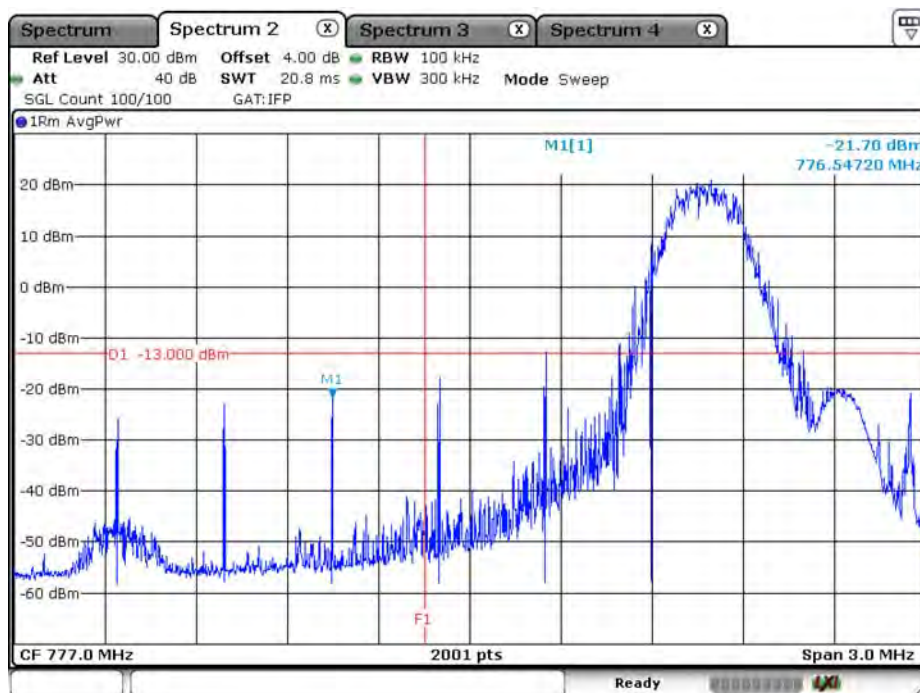
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B13_CH23255_5M_16-QAM_5RB1_15k



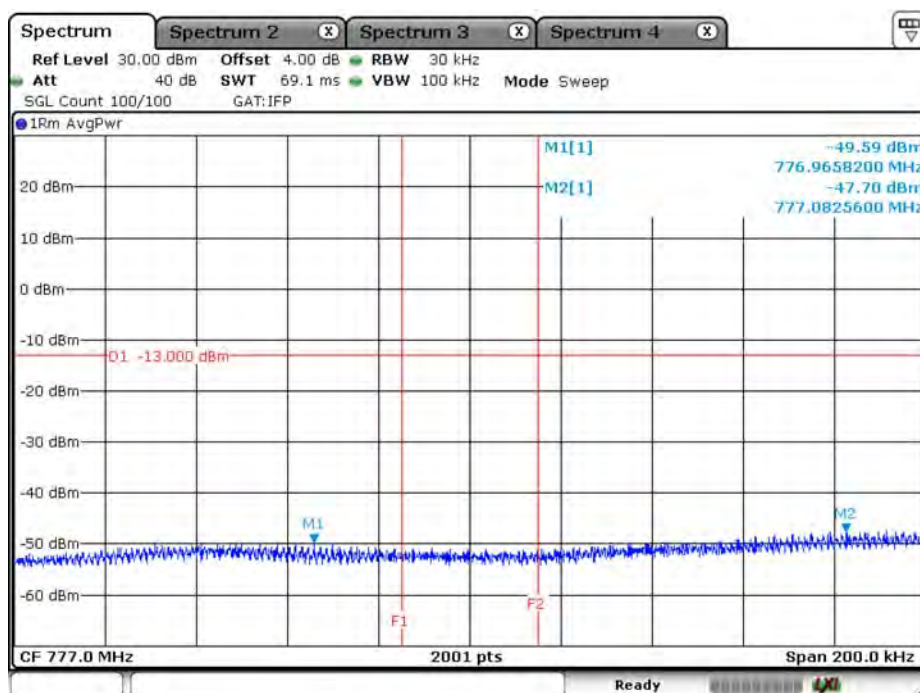
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B13_CH23230_10M_QPSK_1RB0_Low_150k



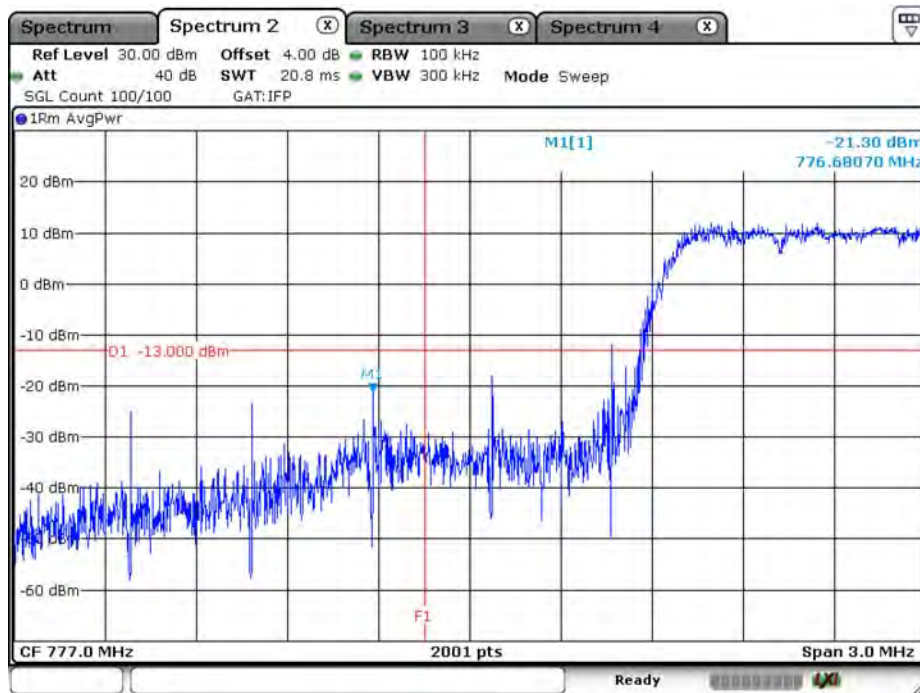
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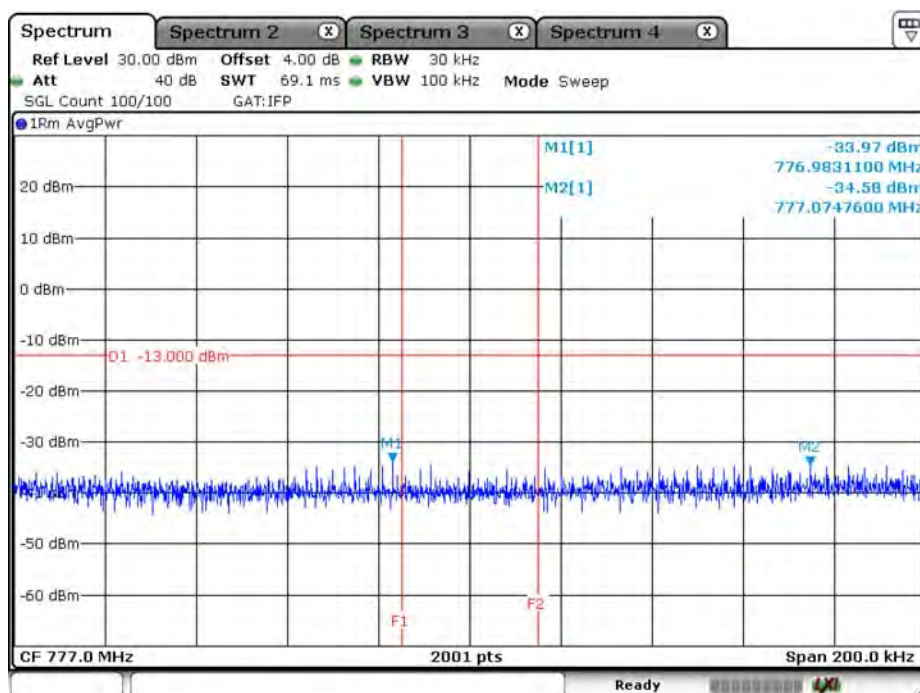
Date: 25.DEC.2019 15:57:37

B13_CH23230_10M_QPSK_6RB0_Low_150k



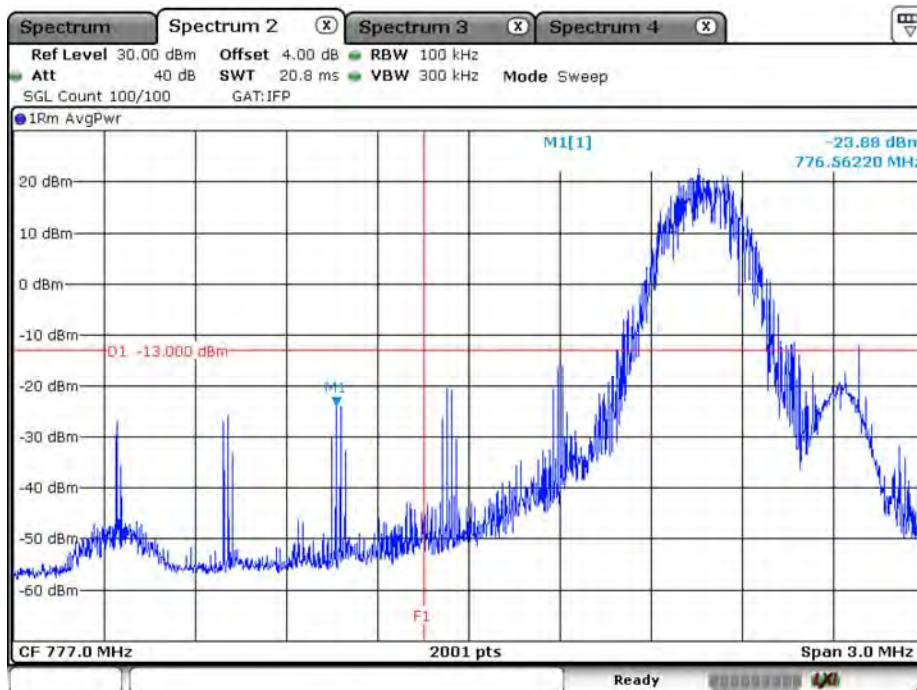
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B13_CH23230_10M_QPSK_6RB0_Low_15k



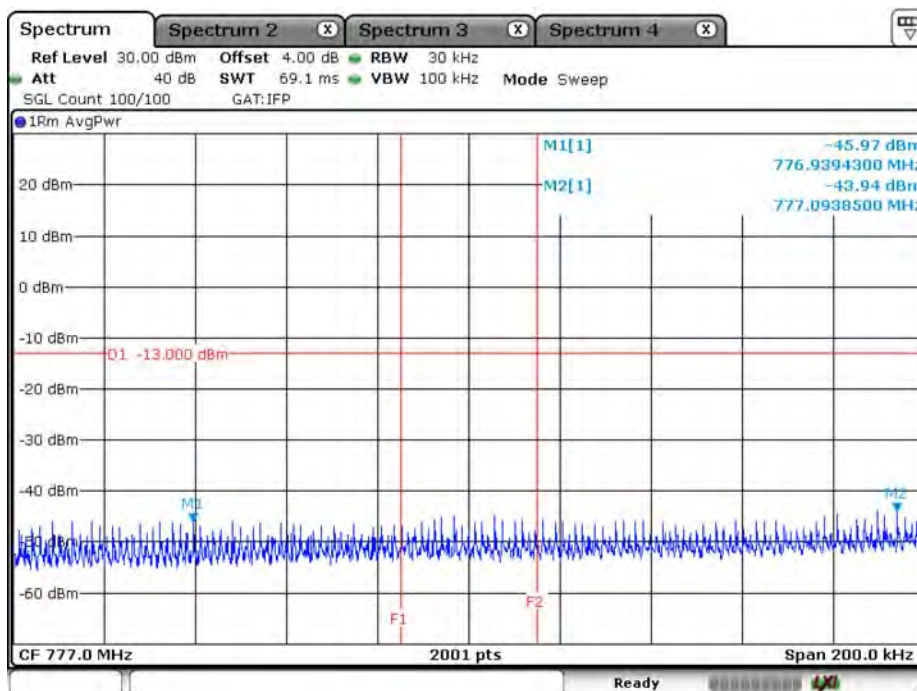
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B13_CH23230_10M_16-QAM_1RB0_Low_150k



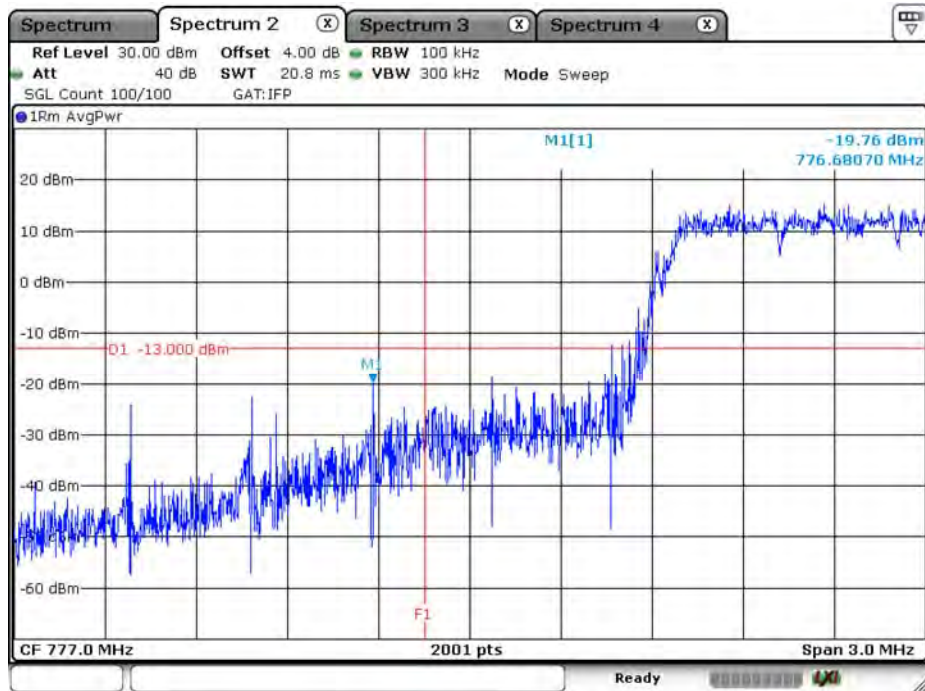
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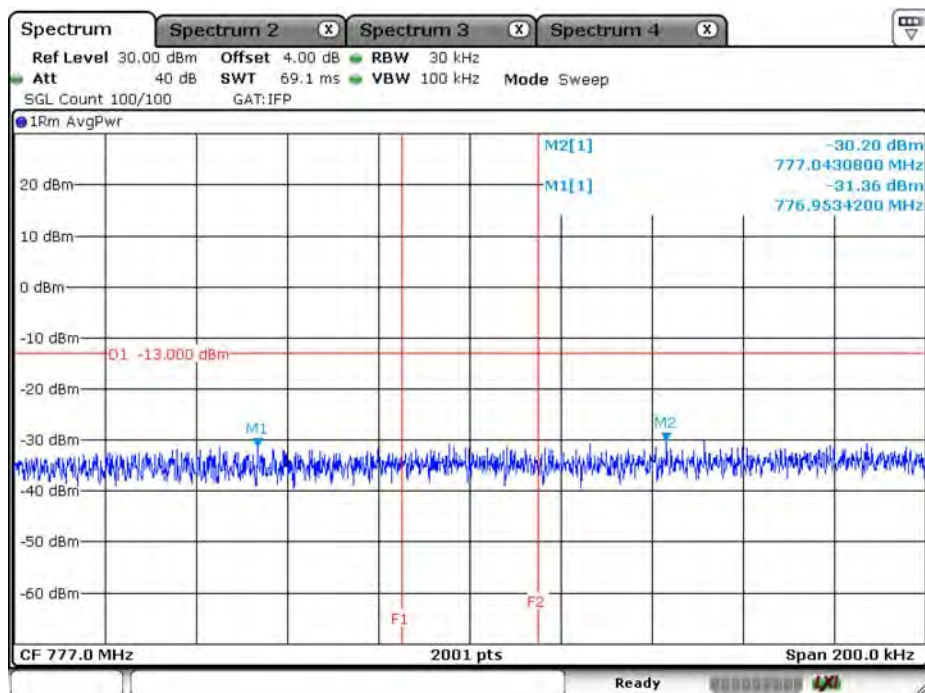
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B13_CH23230_10M_16-QAM_5RB0_Low_150k



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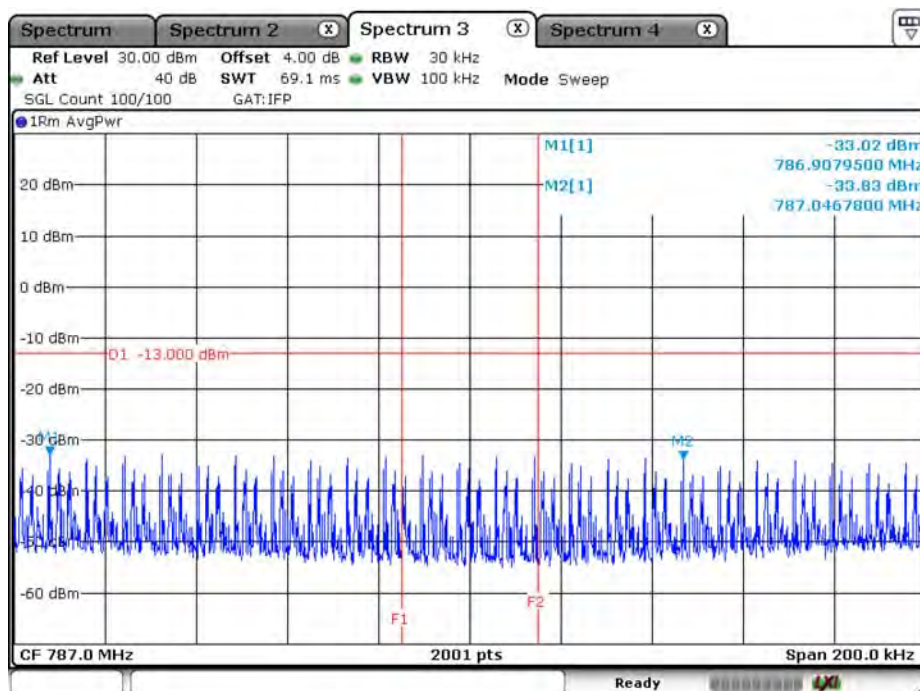
Date: 25.DEC.2019 15:46:09

B13_CH23230_10M_QPSK_1RB5_High_150k

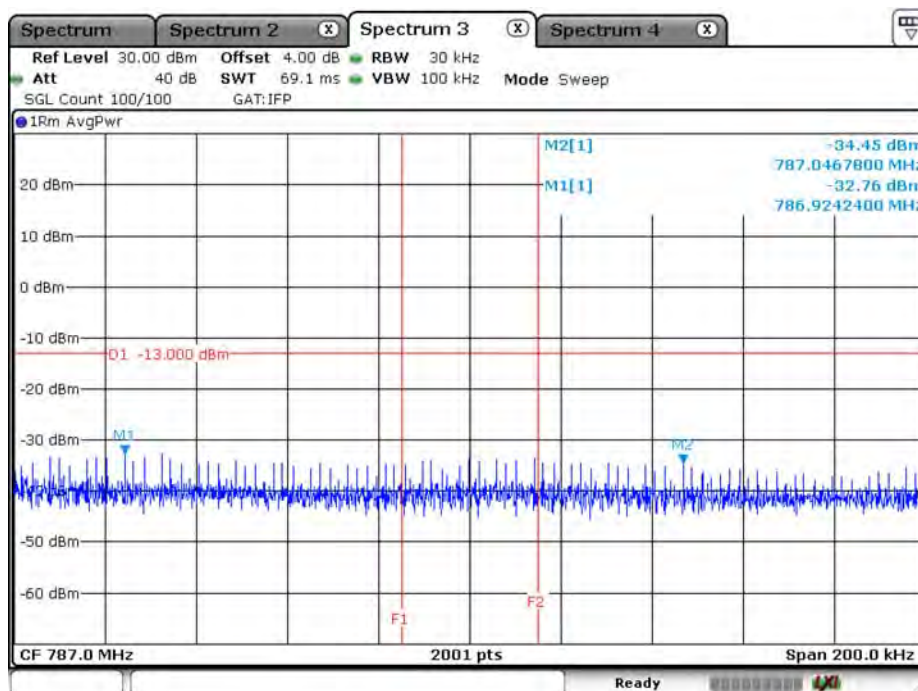
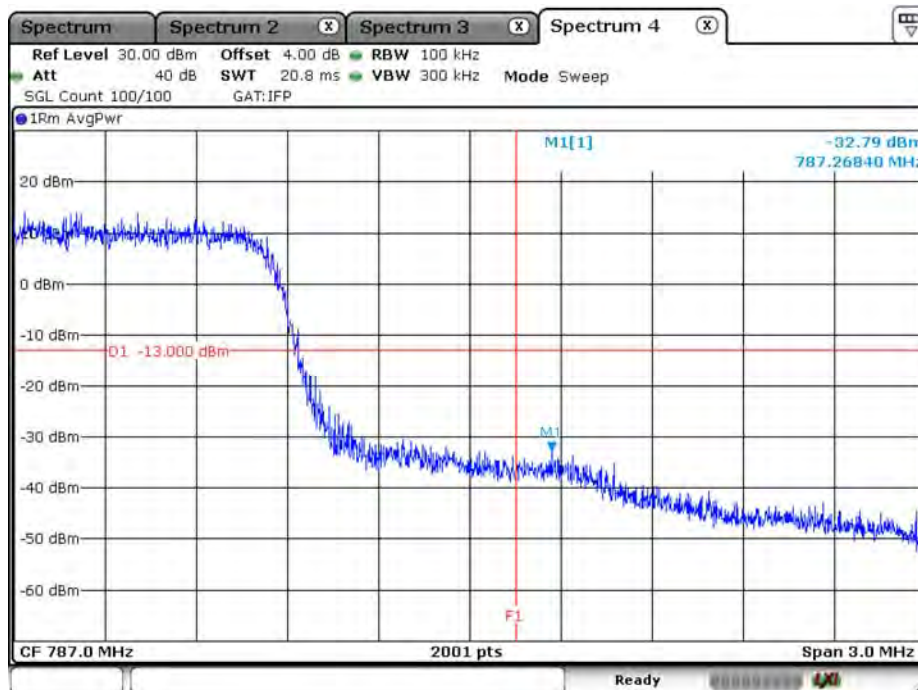


Date: 25.DEC.2019 16:01:10

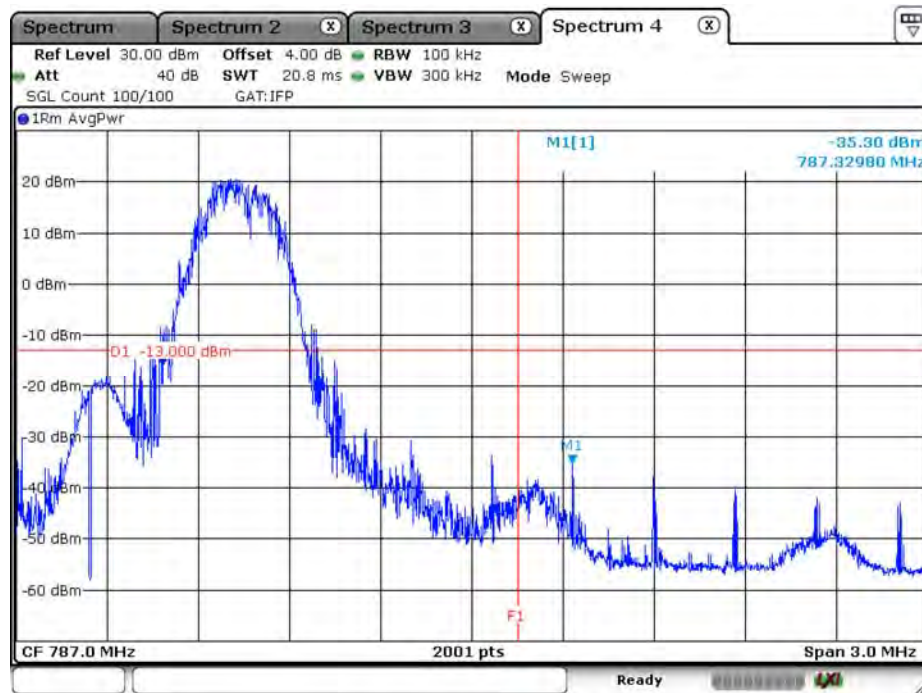
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Date: 25.DEC.2019 16:00:23

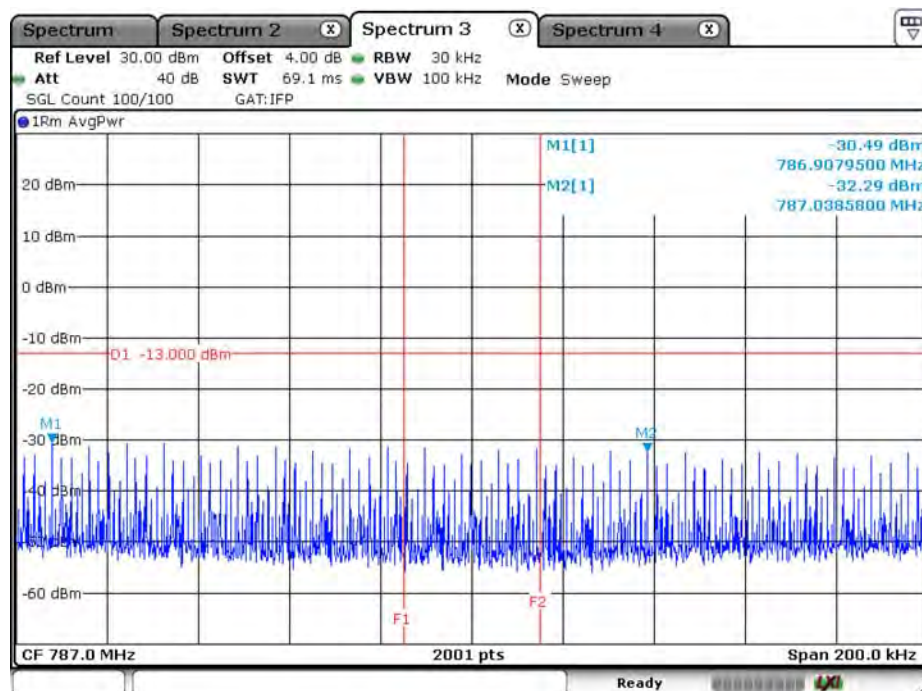


B13_CH23230_10M_16-QAM_1RB5_High_150k



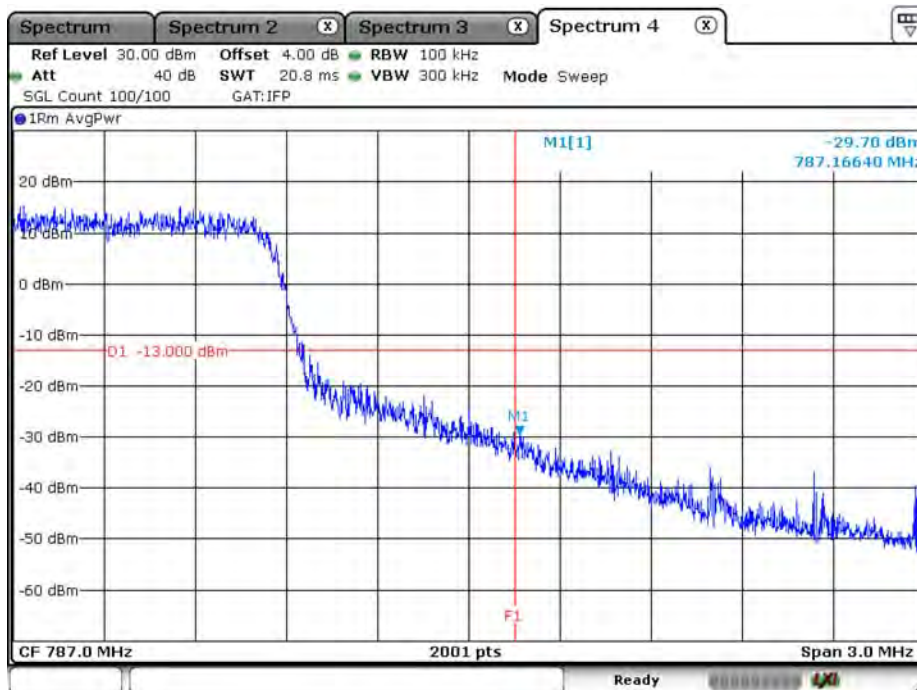
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B13_CH23230_10M_16-QAM_1RB5_High_15k



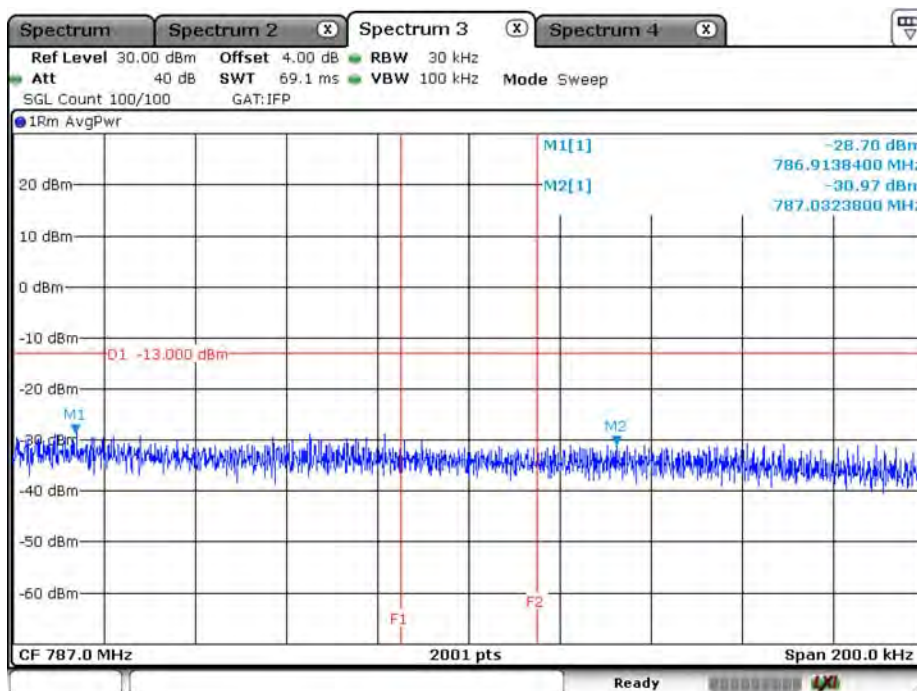
Date: 25, DEC, 2019 16:02:25

B13_CH23230_10M_16-QAM_5RB1_High_150k



Date: 25, DEC, 2019 16:03:42

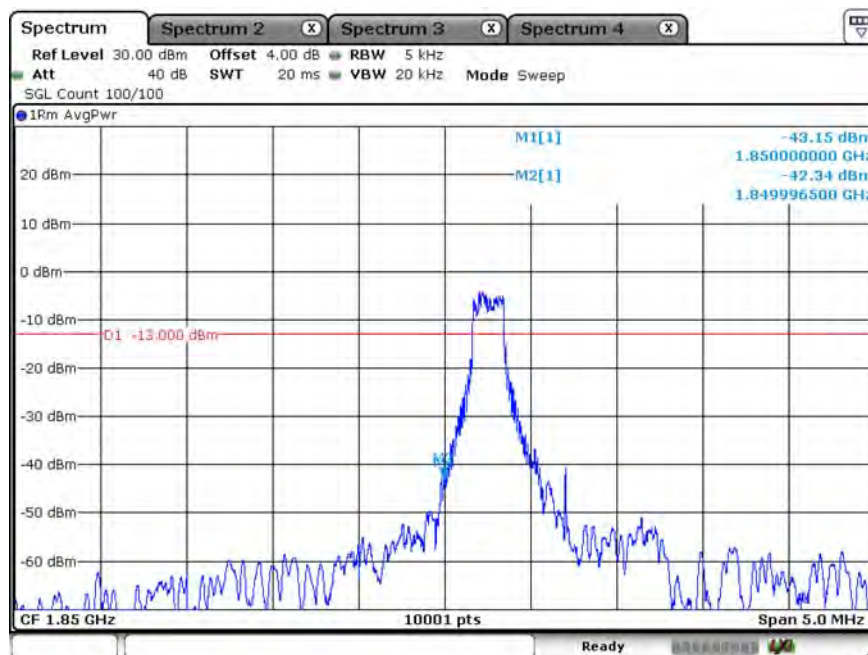
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Date: 25, DEC, 2019 16:03:16

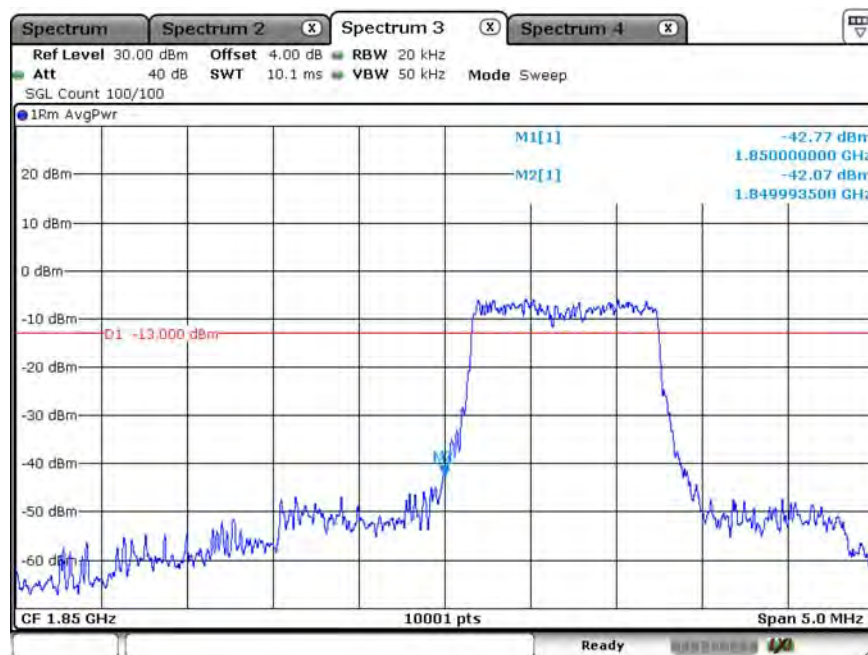
Product	M2M DATA MODULE		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 5: LTE Band 25		
Date of Test	2019/12/26	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	60%RH

B25_CH26047_1.4M_QPSK_1RB0



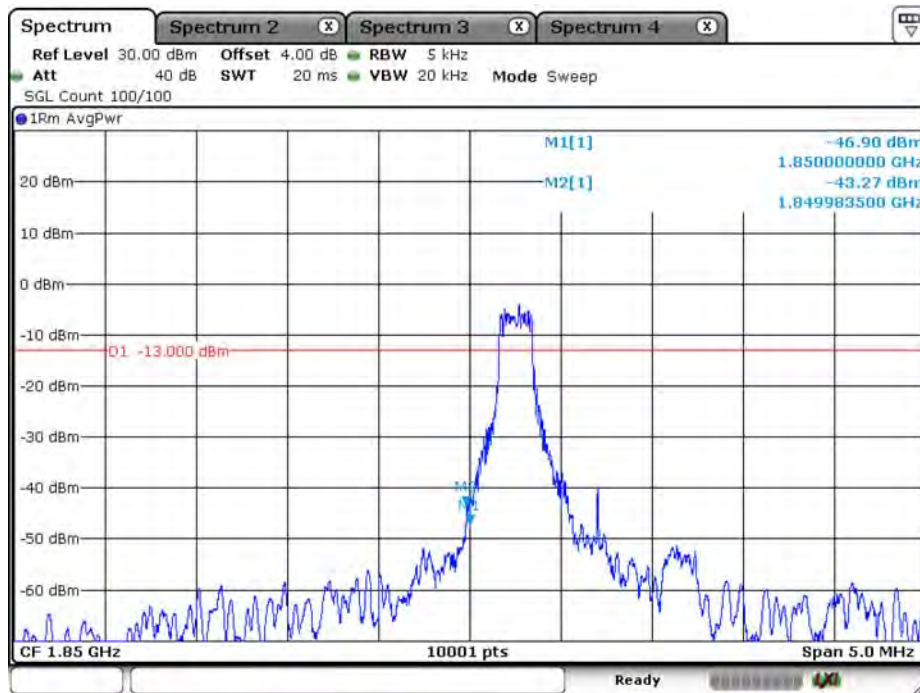
Date: 26.DEC.2019 09:46:36

B25_CH26047_1.4M_QPSK_6RB0



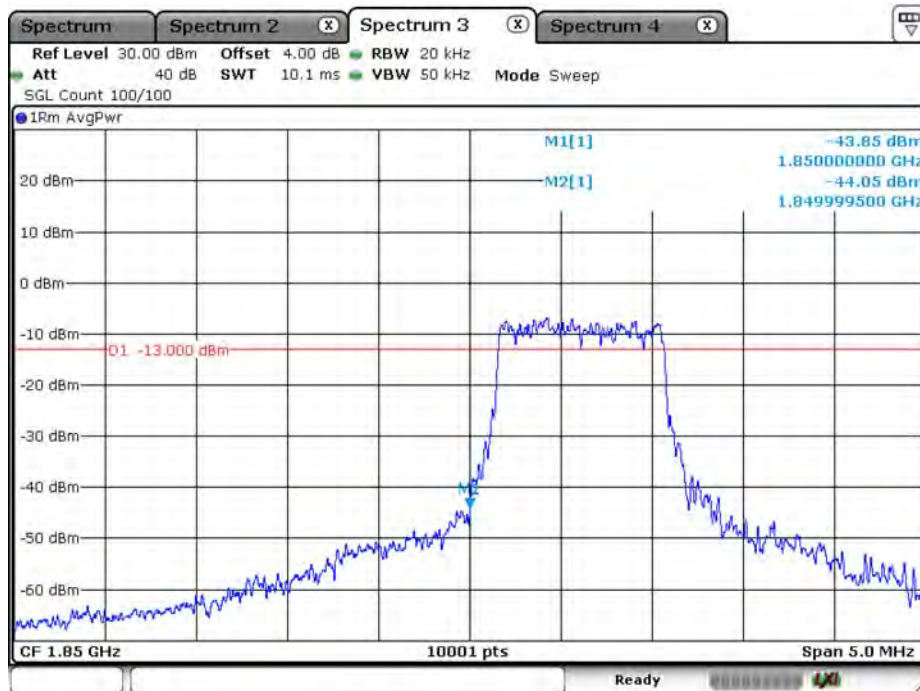
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B25_CH26047_1.4M_16-QAM_1RB0



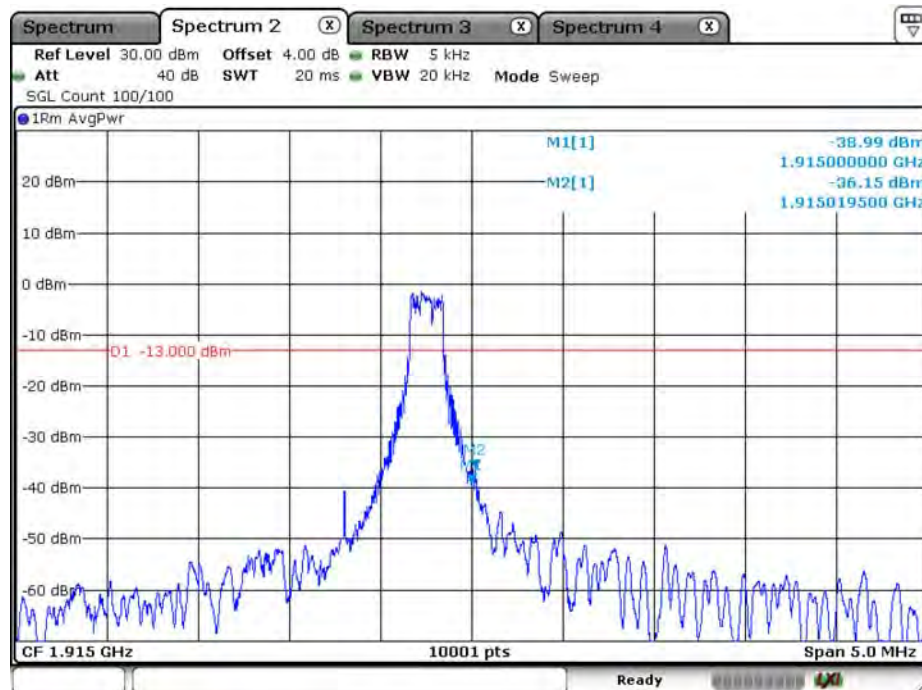
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B25_CH26047_1.4M_16-QAM_5RB0



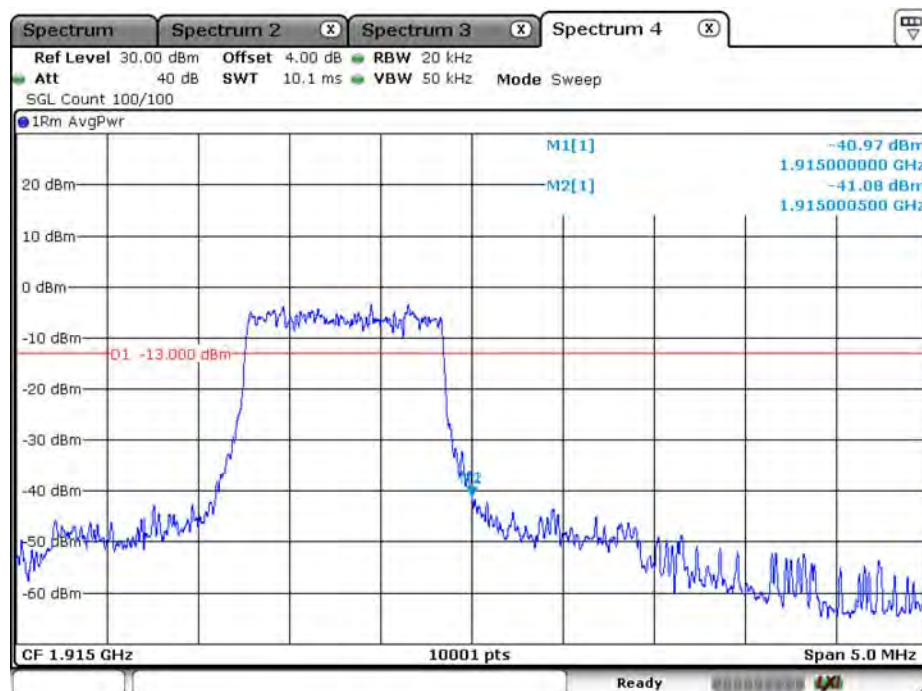
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B25_CH26683_1.4M_QPSK_1RB5



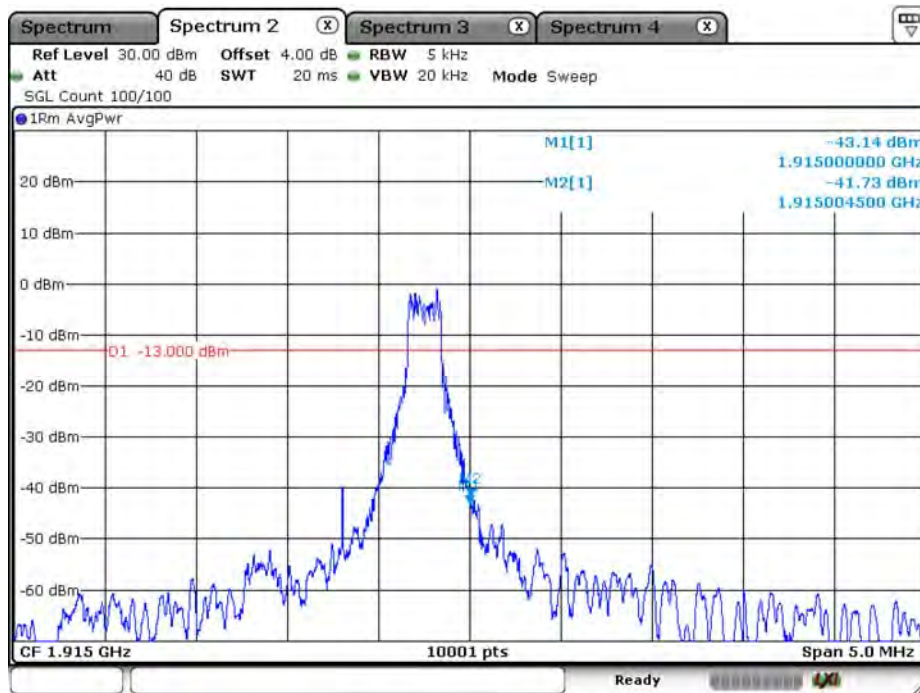
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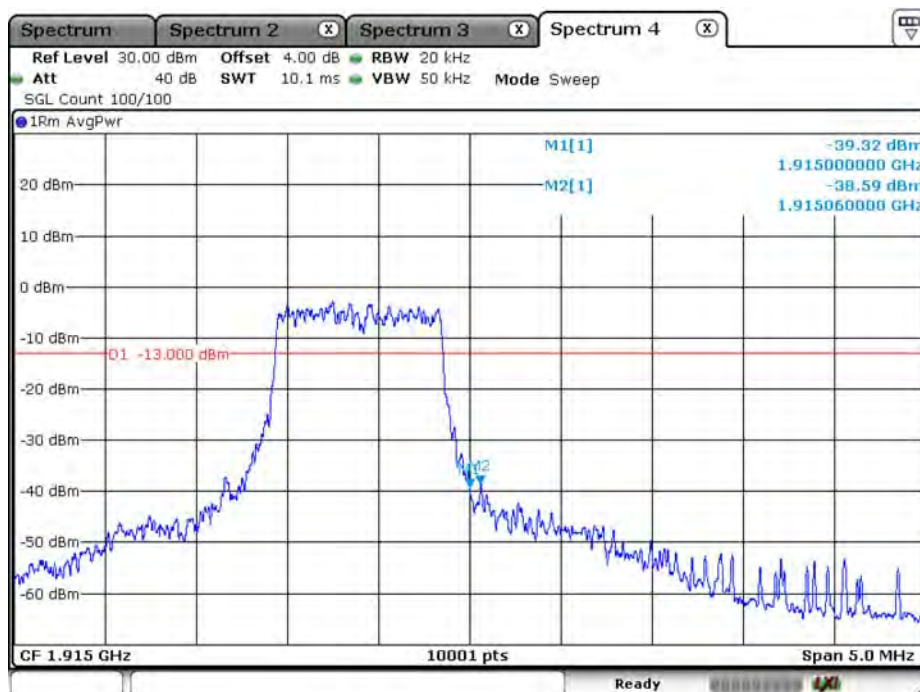
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B25_CH26683_1.4M_16-QAM_1RB5



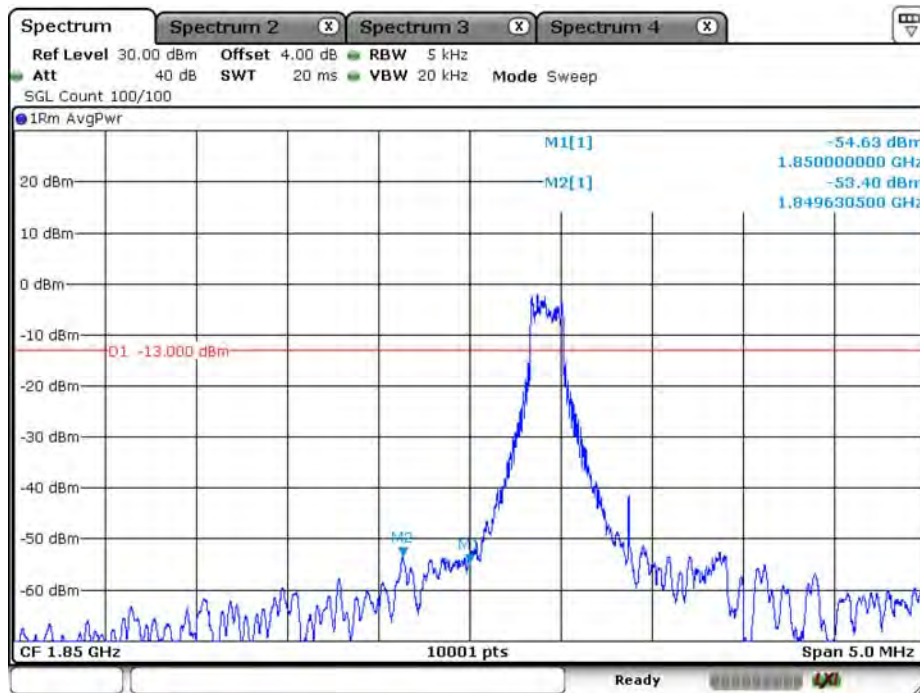
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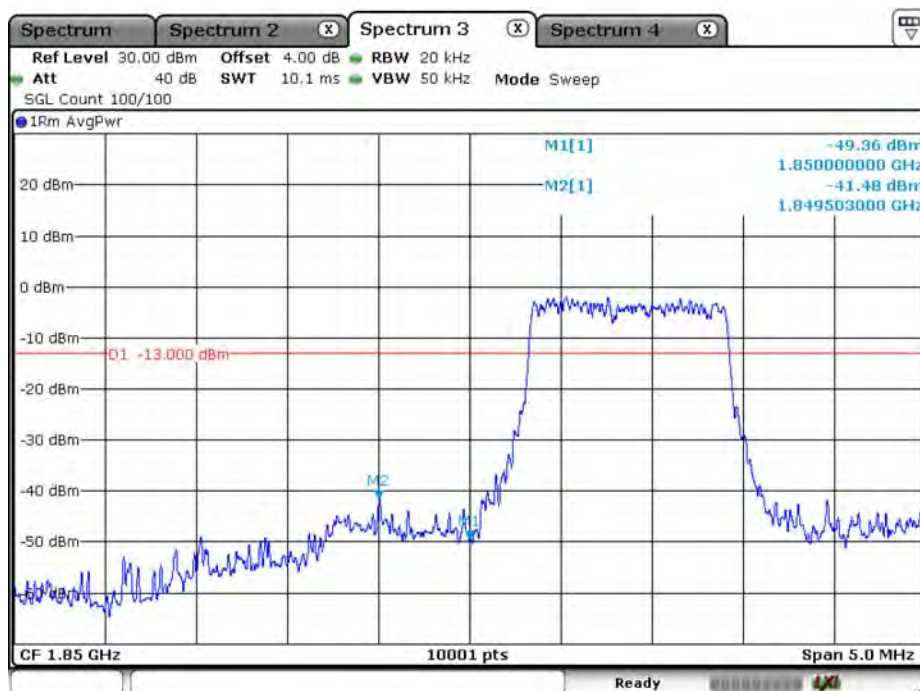
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B25_CH26055_3M_QPSK_1RB0



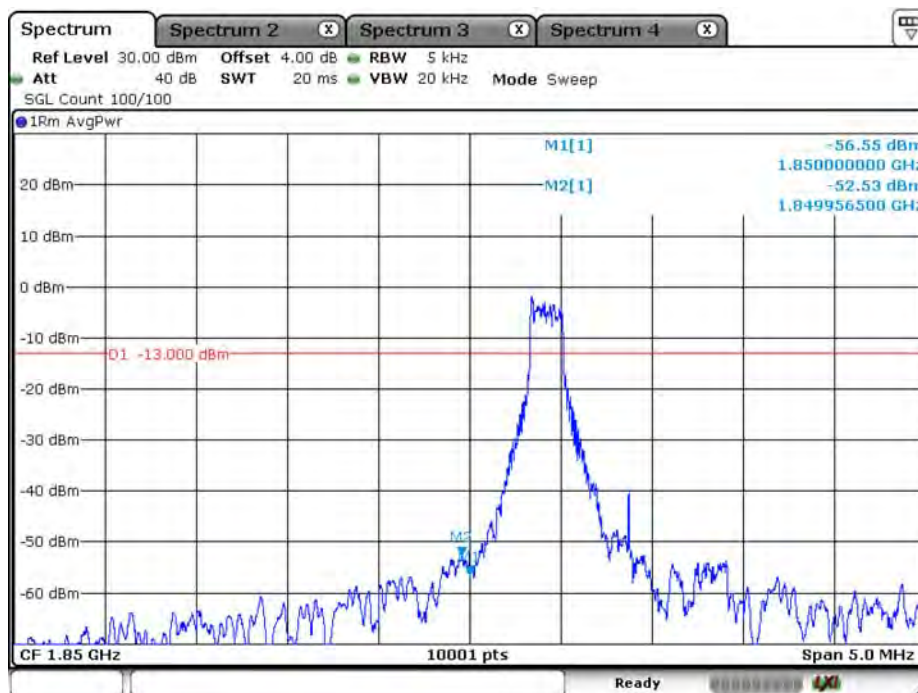
Date: 26.DEC.2019 10:02:21

B25_CH26055_3M_QPSK_6RB0



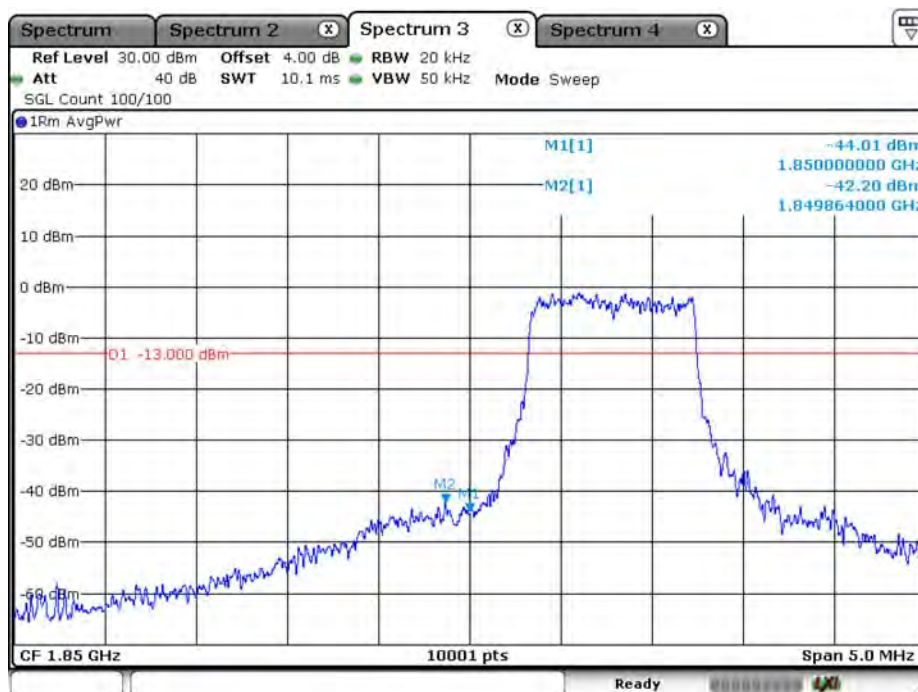
Date: 26.DEC.2019 10:04:40

B25_CH26055_3M_16-QAM_1RB0



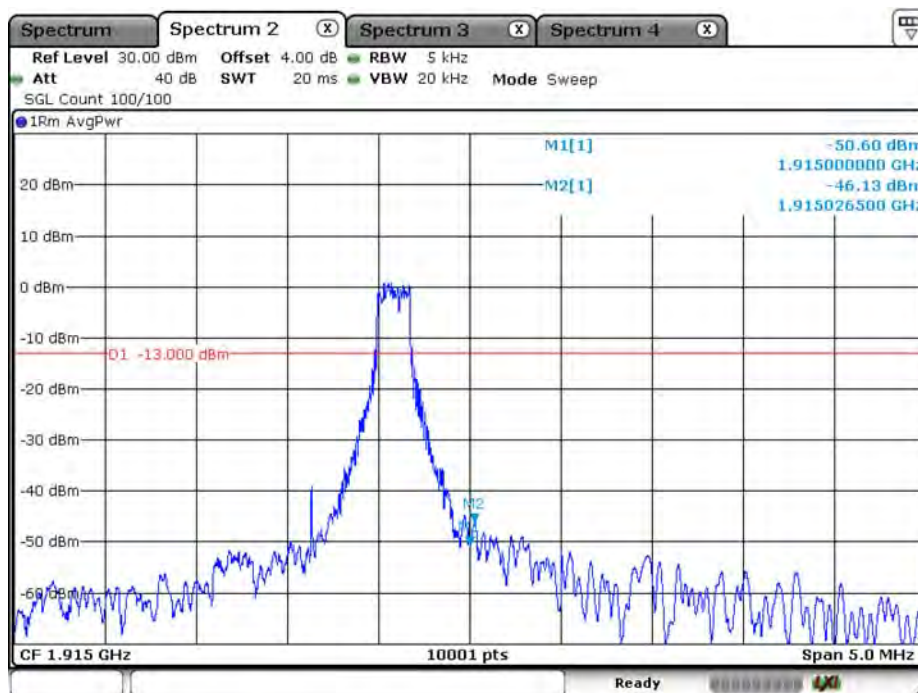
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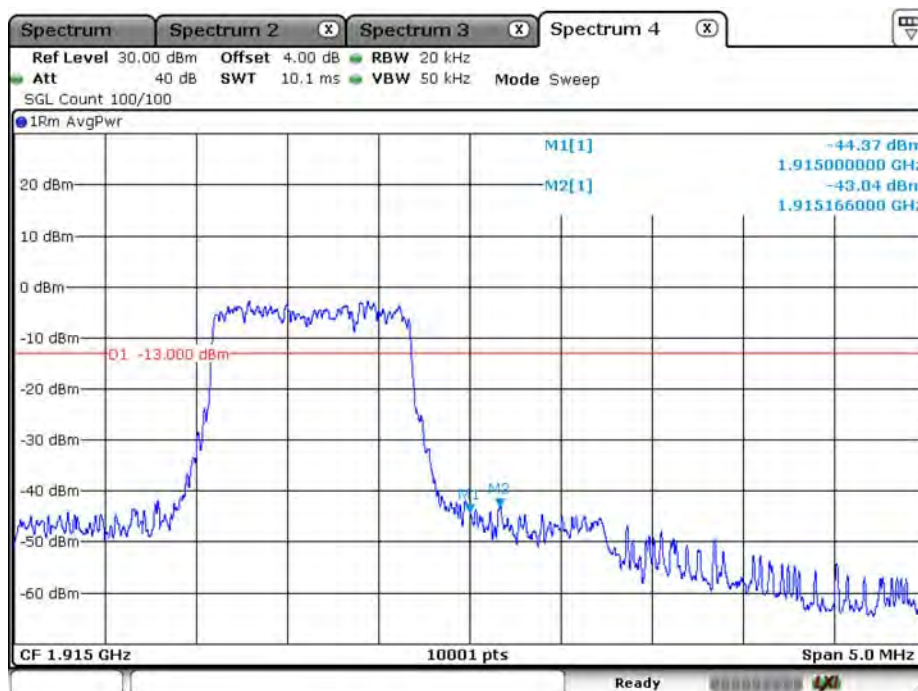
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B25_CH26675_3M_QPSK_1RB5



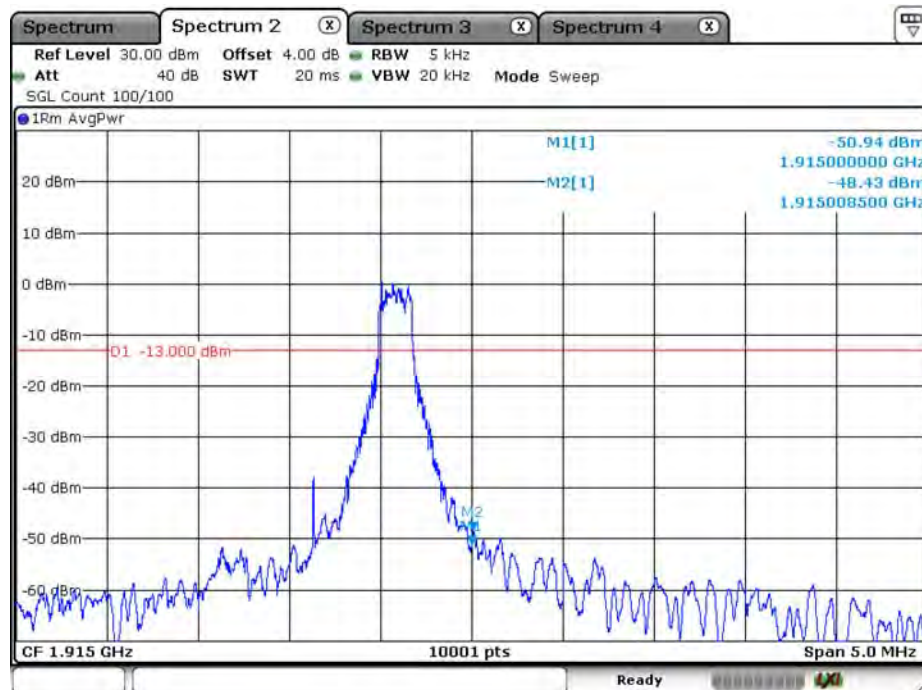
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B25_CH26675_3M_QPSK_6RB0



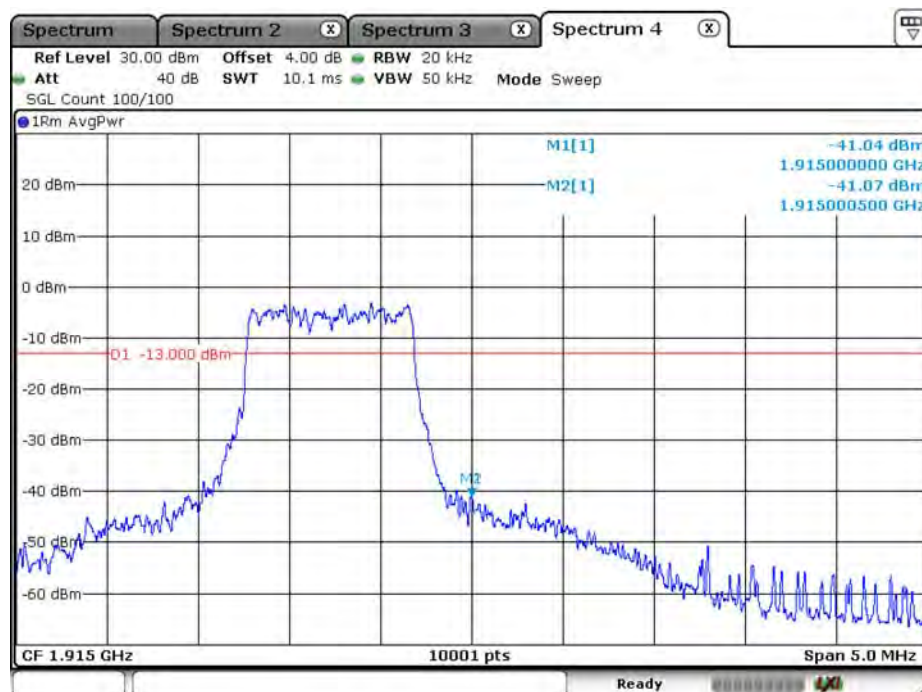
Date: 26.DEC.2019 09:55:17

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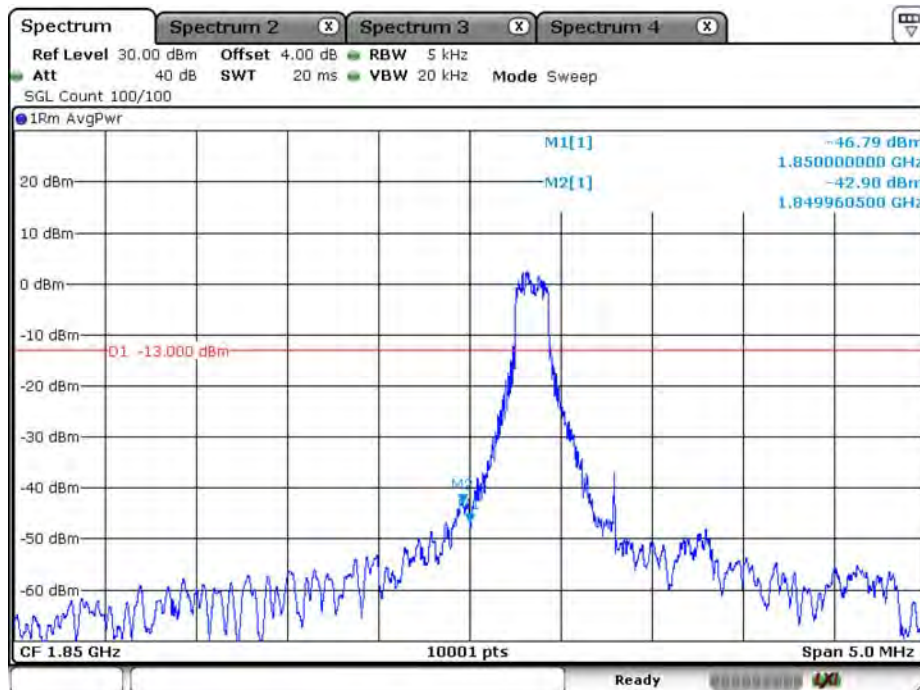
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B25_CH26675_3M_16-QAM_5RB1



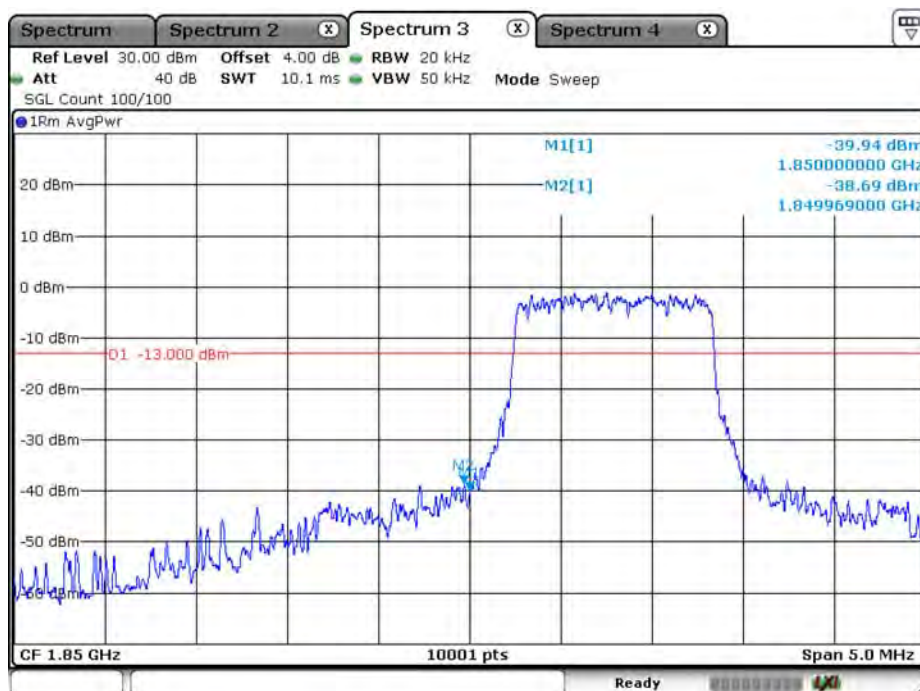
Date: 26.DEC.2019 09:55:58

B25_CH26065_5M_QPSK_1RB0



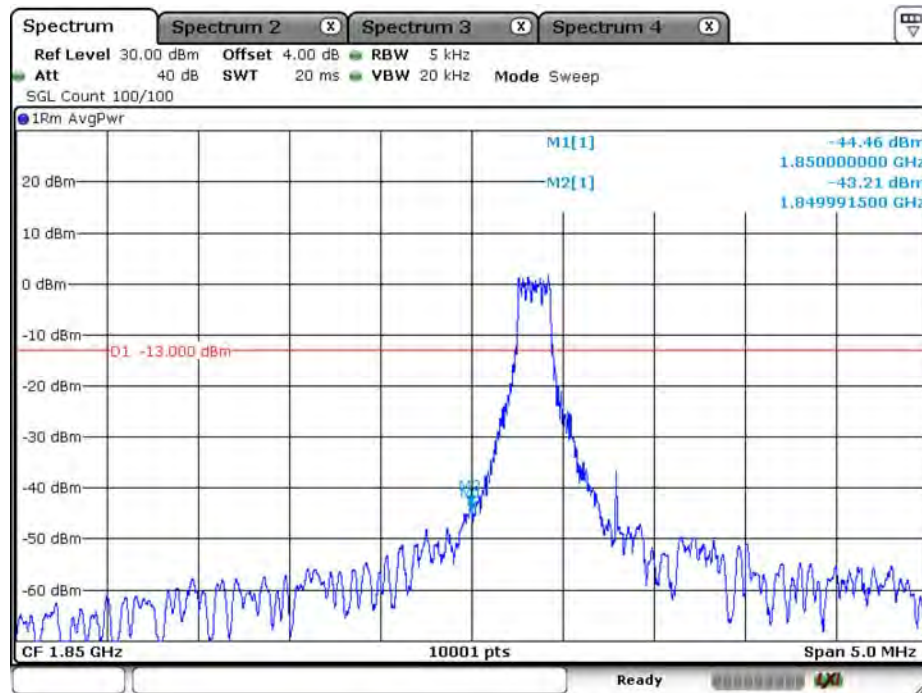
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B25_CH26065_5M_QPSK_6RB0



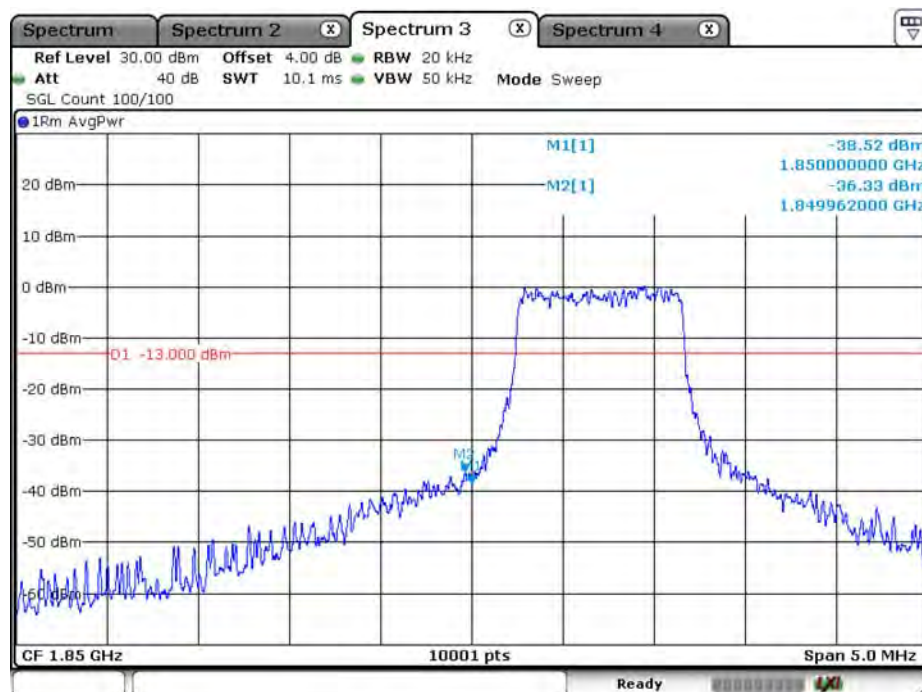
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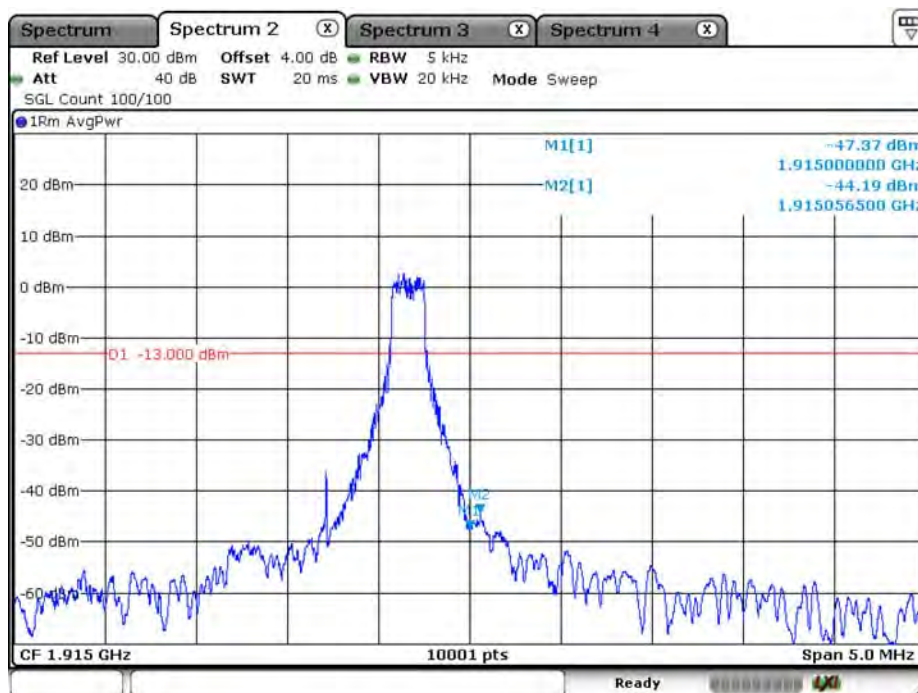
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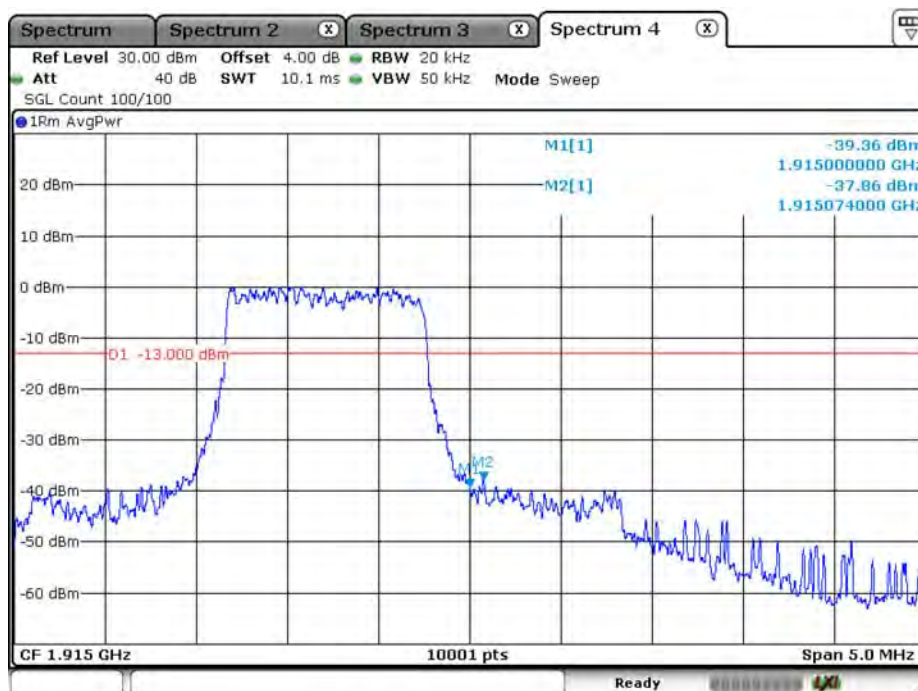
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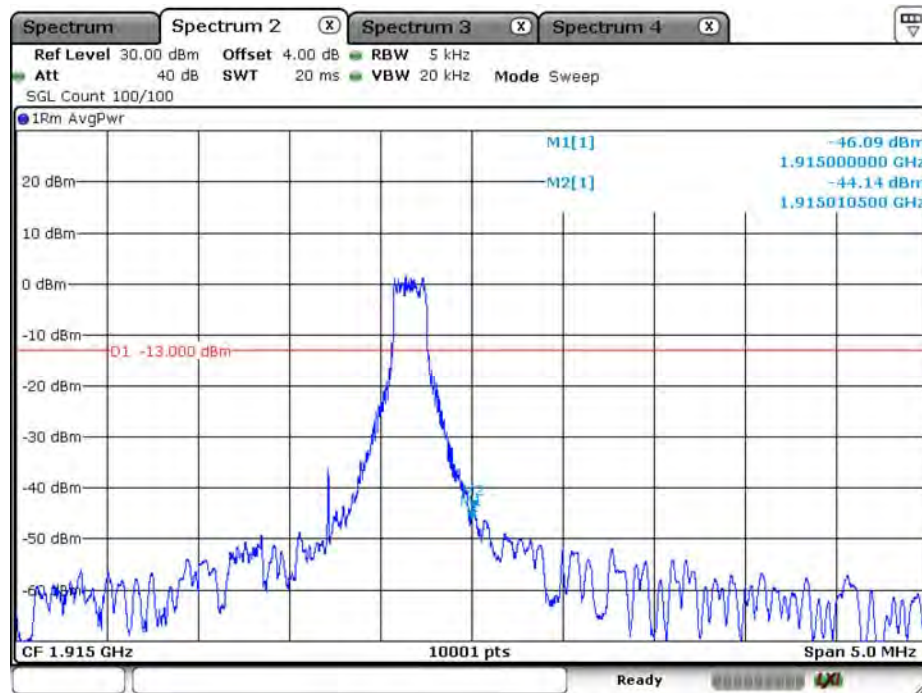
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B25_CH26665_5M_QPSK_6RB0



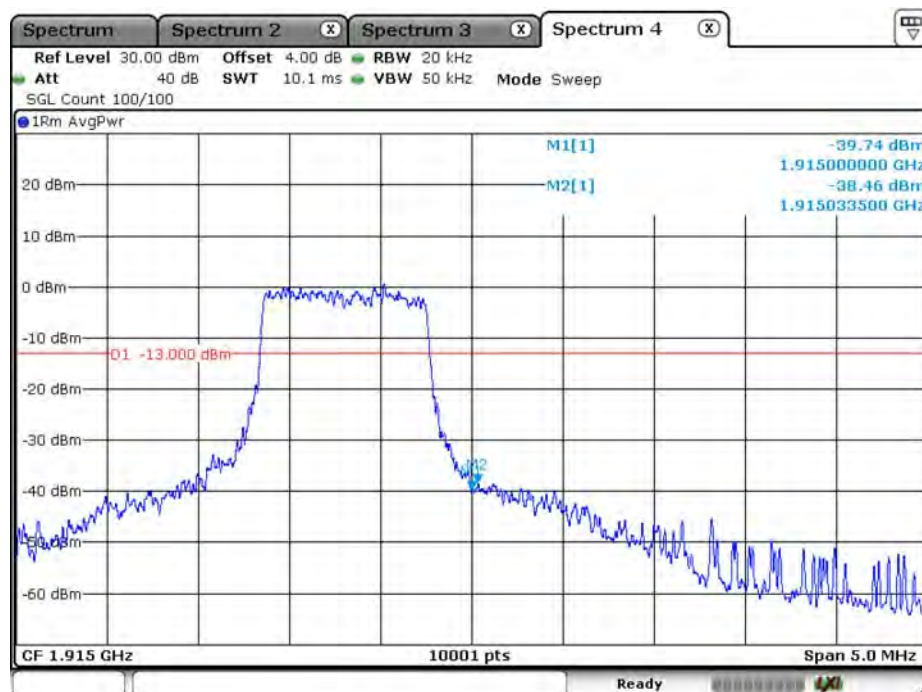
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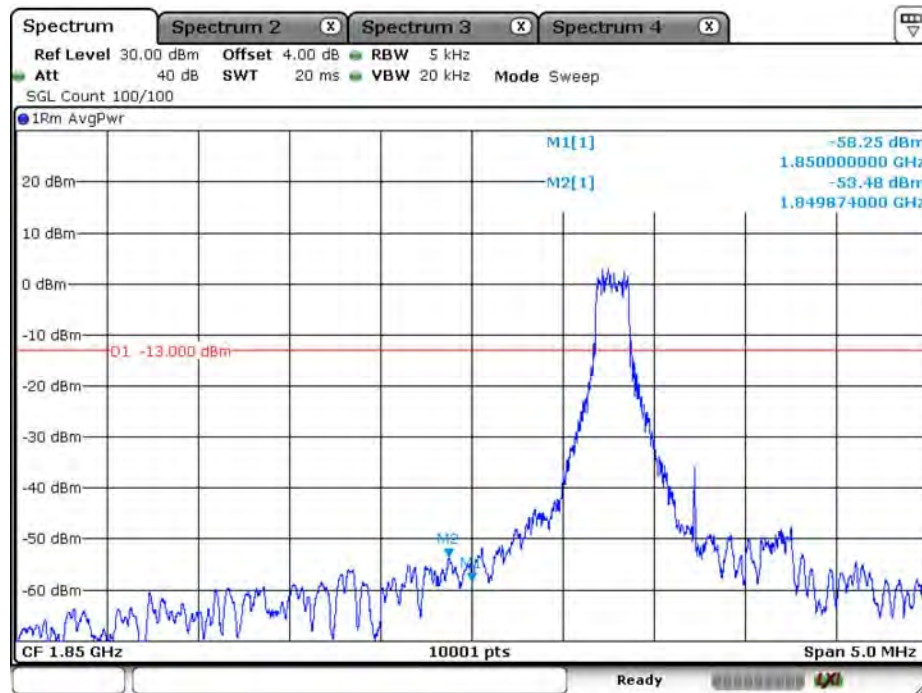
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B25_CH26665_5M_16-QAM_5RB1



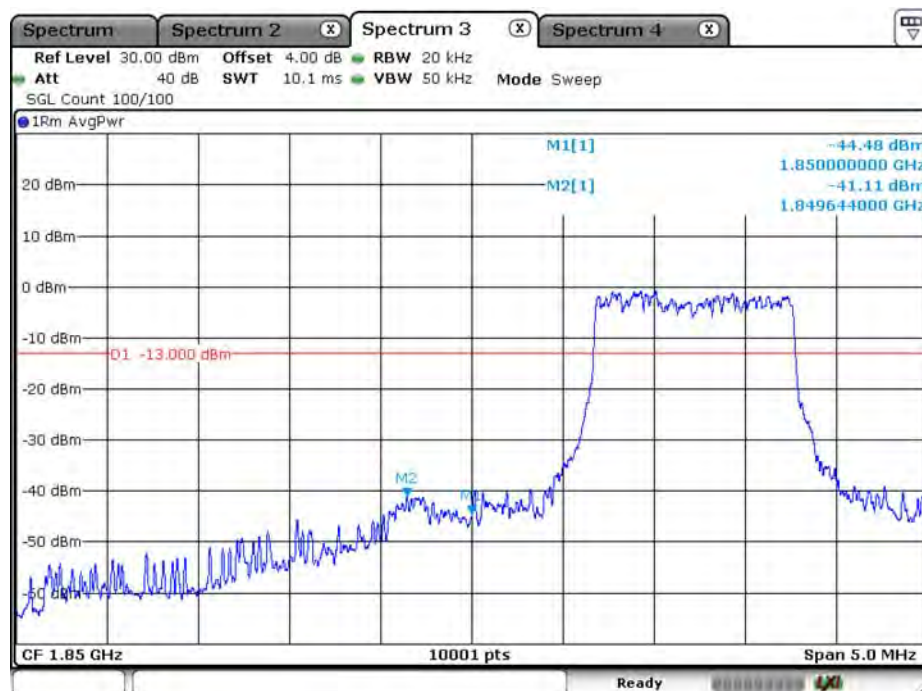
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B25_CH26090_10M_QPSK_1RB0



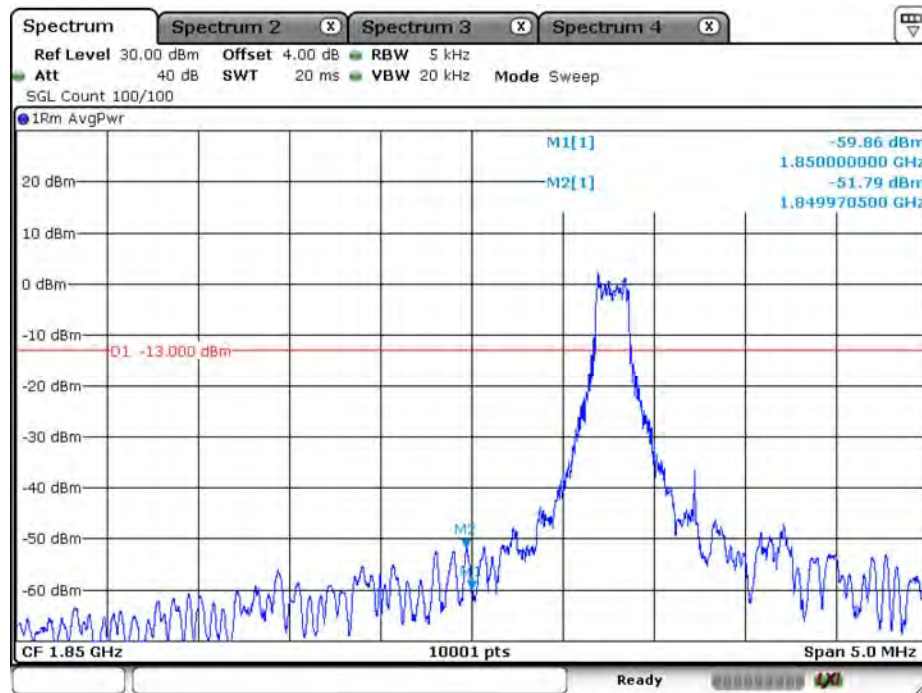
Date: 26.DEC.2019 10:23:09

B25_CH26090_10M_QPSK_6RB0



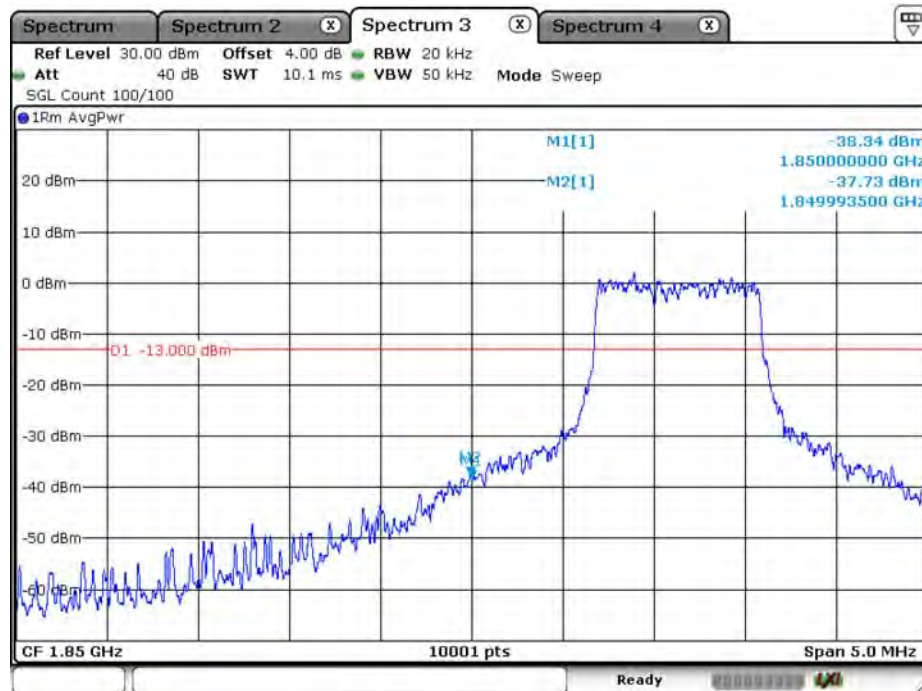
Date: 26.DEC.2019 10:21:44

B25_CH26090_10M_16-QAM_1RB0



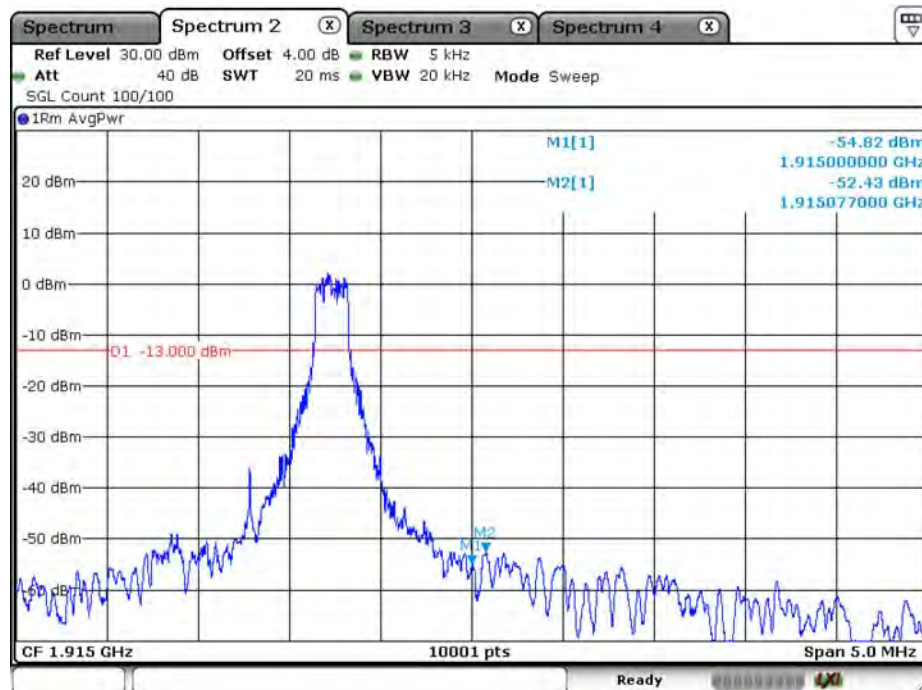
Date: 26.DEC.2019 10:22:39

B25_CH26090_10M_16-QAM_5RB0



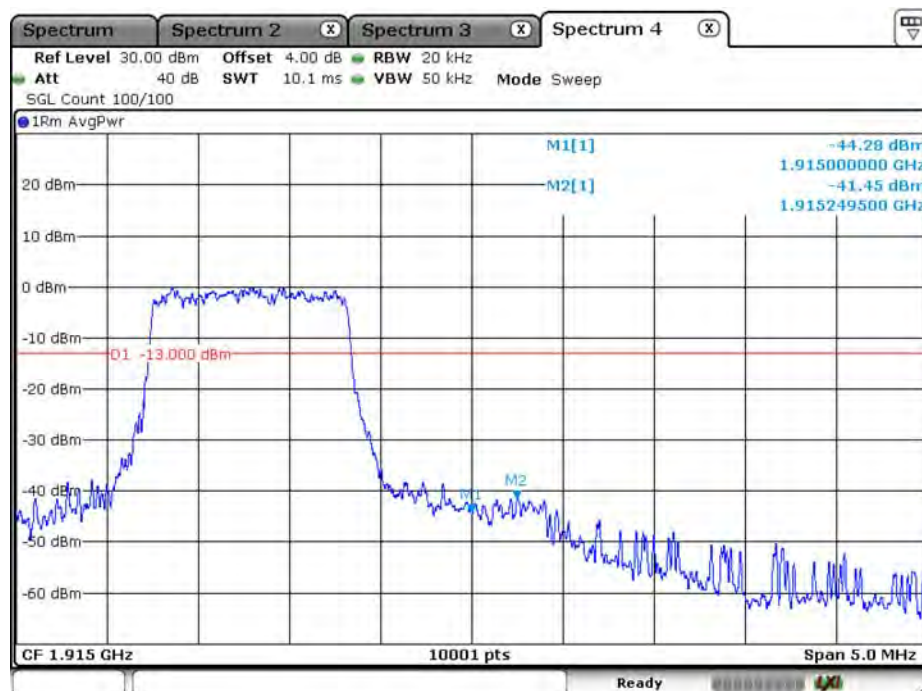
Date: 26.DEC.2019 10:22:09

B25_CH26640_10M_QPSK_1RB5



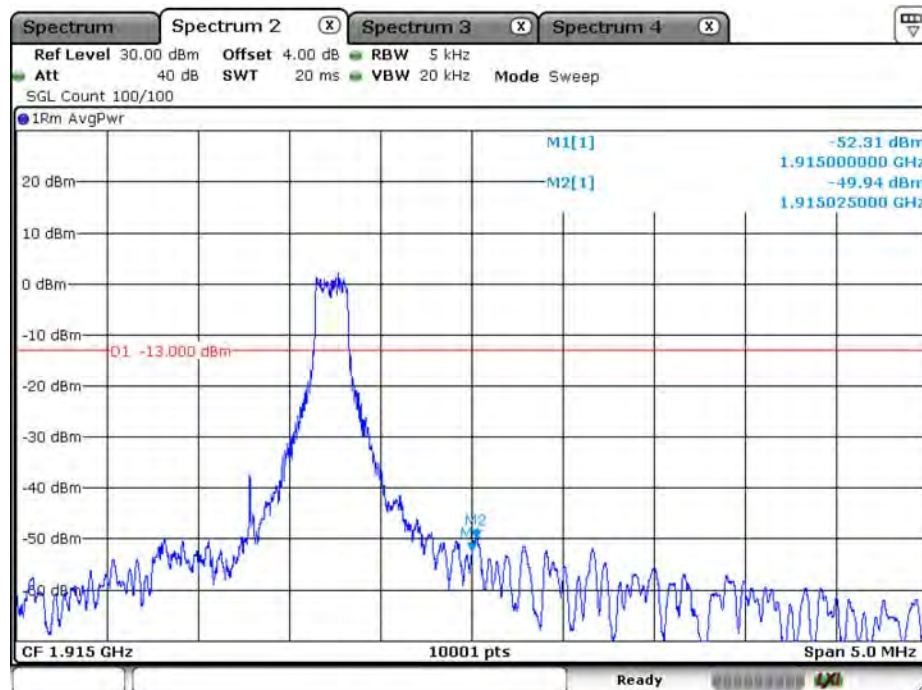
Date: 26.DEC.2019 10:25:19

B25_CH26640_10M_QPSK_6RB0



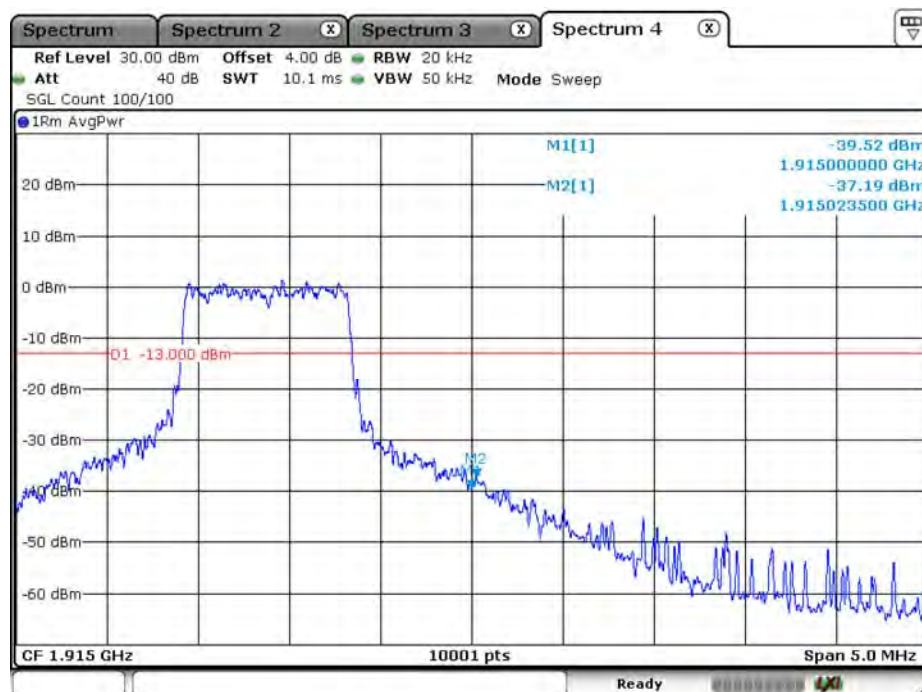
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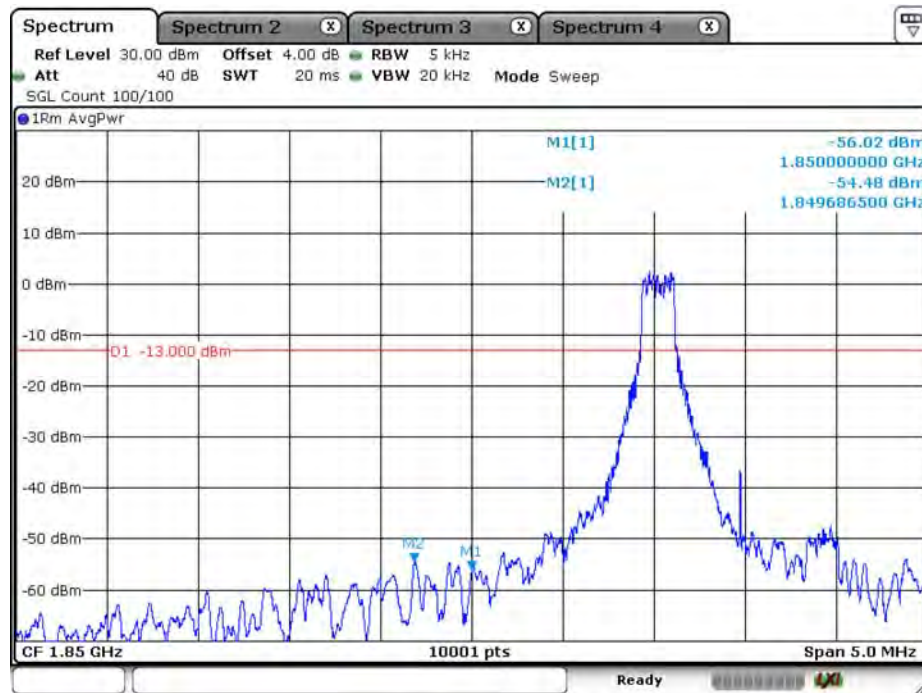
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B25_CH26640_10M_16-QAM_5RB1



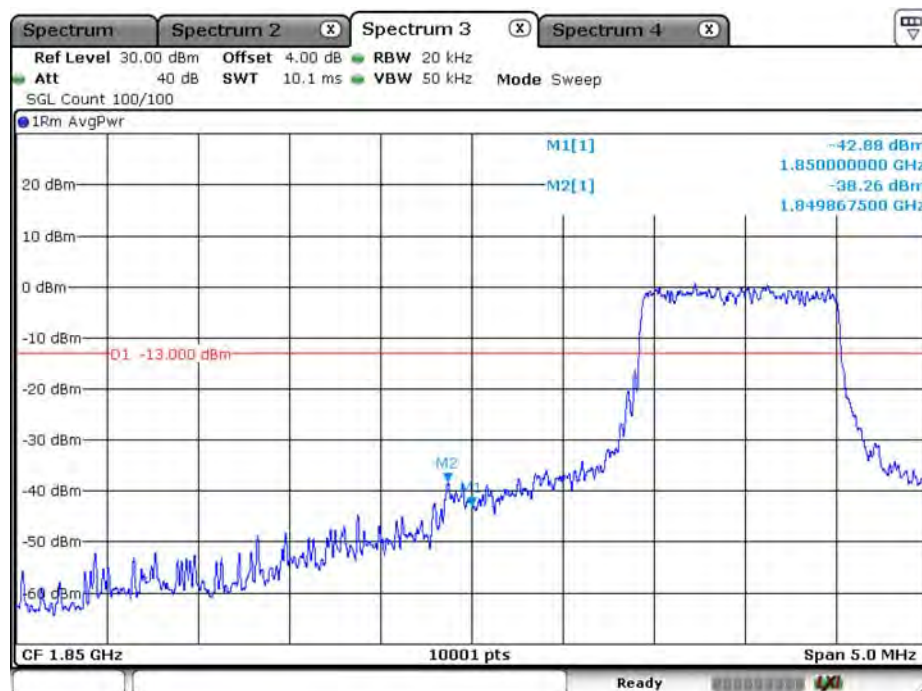
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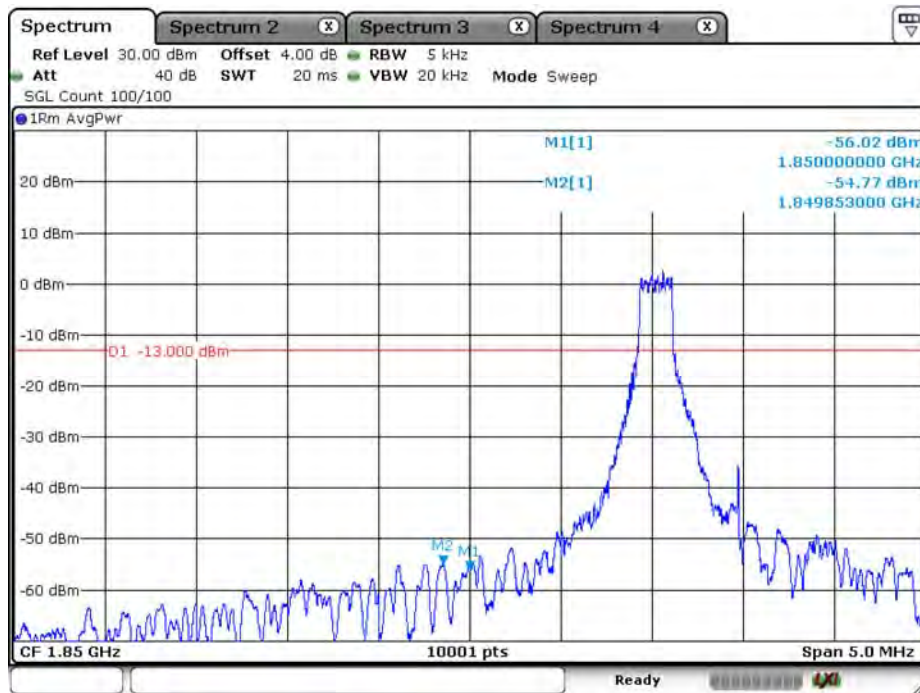
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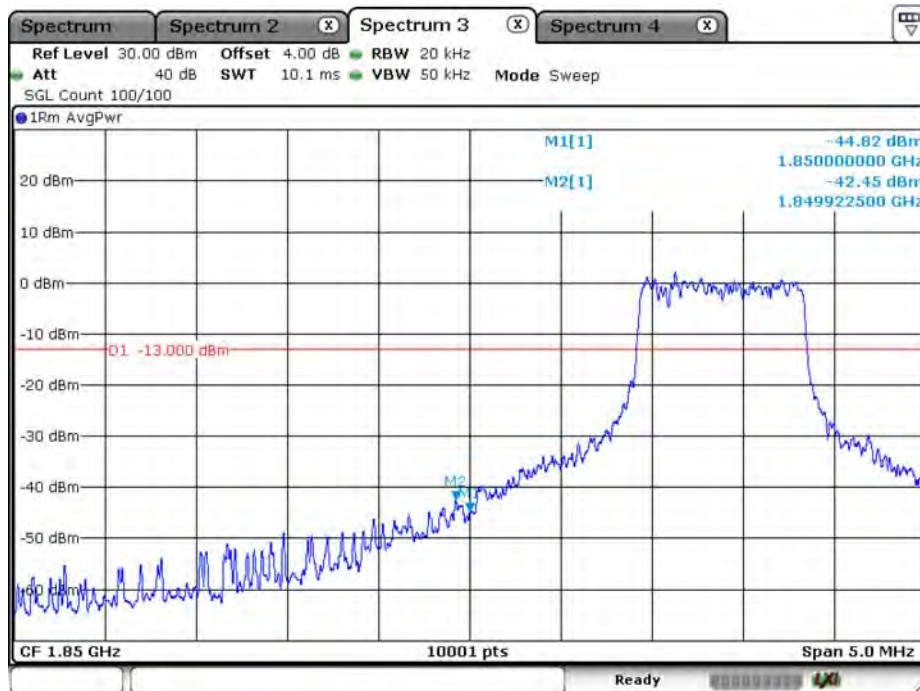
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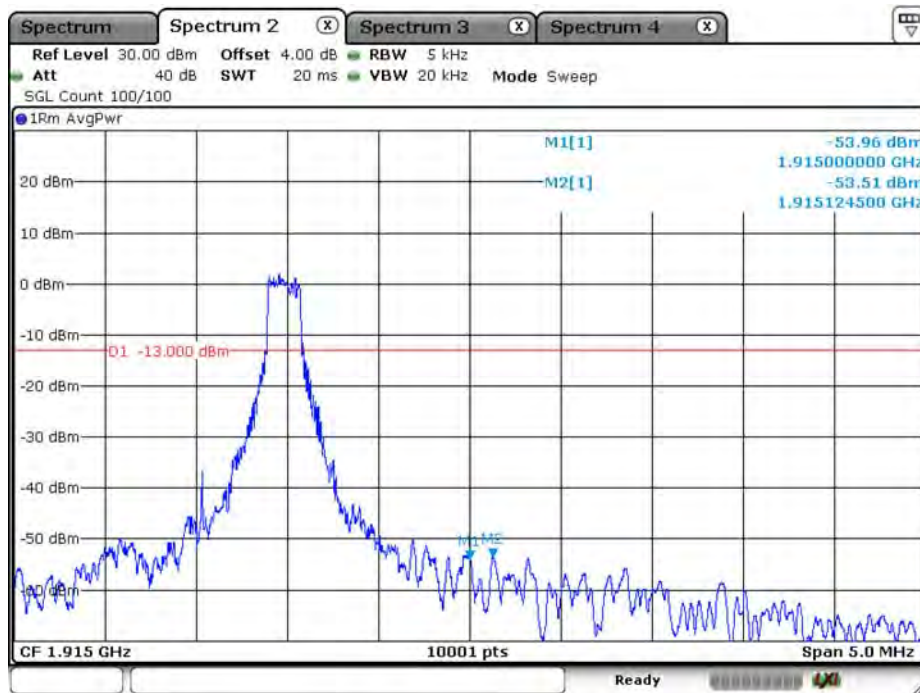
Date: 26.DEC.2019 10:33:24

B25_CH26115_15M_16-QAM_5RB0



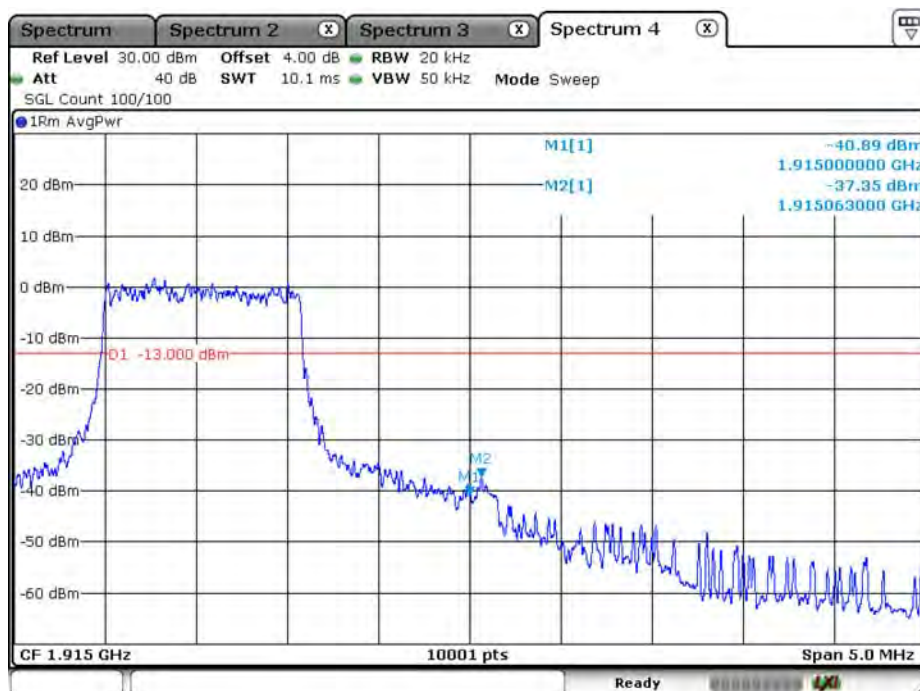
Date: 26.DEC.2019 10:33:58

B25_CH26615_15M_QPSK_1RB5



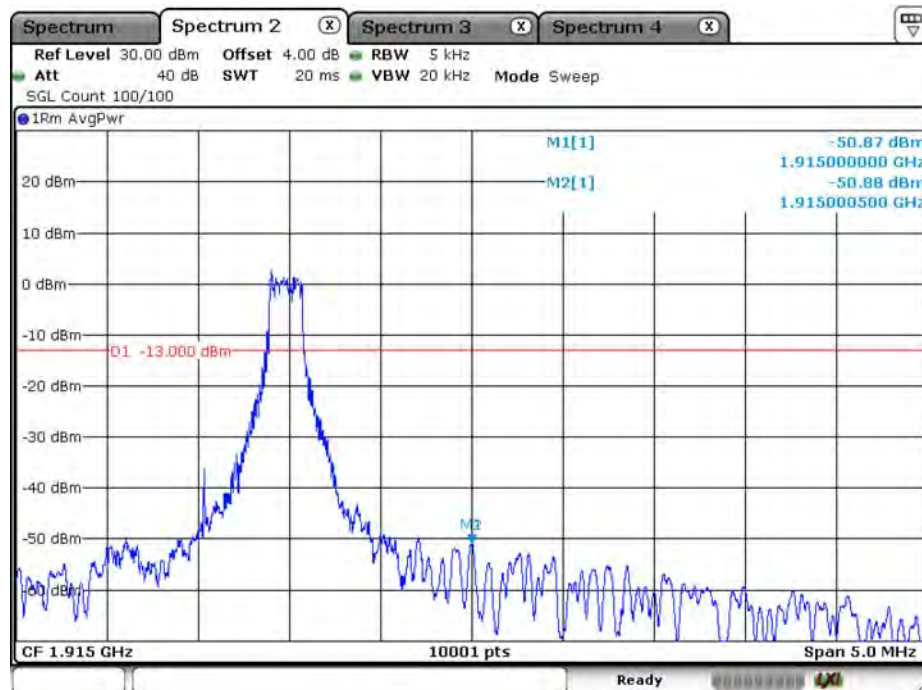
Date: 26.DEC.2019 10:31:48

B25_CH26615_15M_QPSK_6RB0



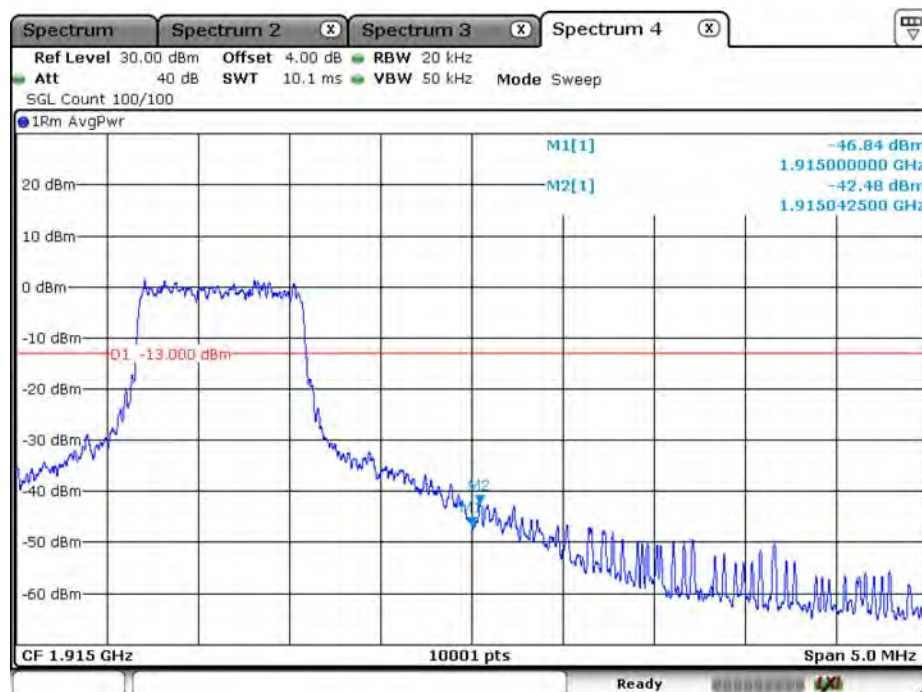
Date: 26.DEC.2019 10:29:50

B25_CH26615_15M_16-QAM_1RB5



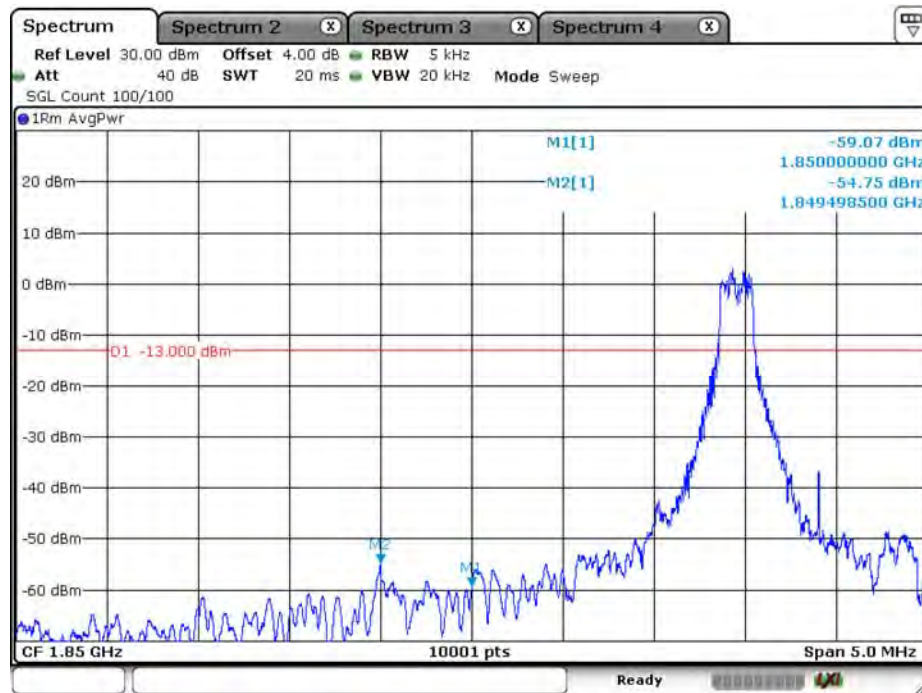
Date: 26.DEC.2019 10:31:14

B25_CH26615_15M_16-QAM_5RB1



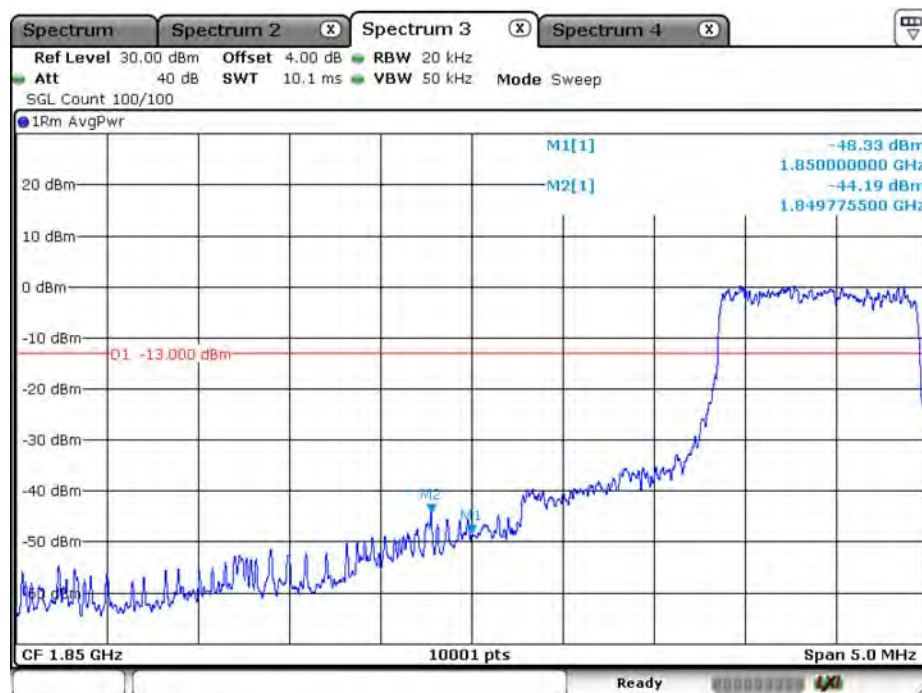
Date: 26.DEC.2019 10:30:42

B25_CH26140_20M_QPSK_1RB0



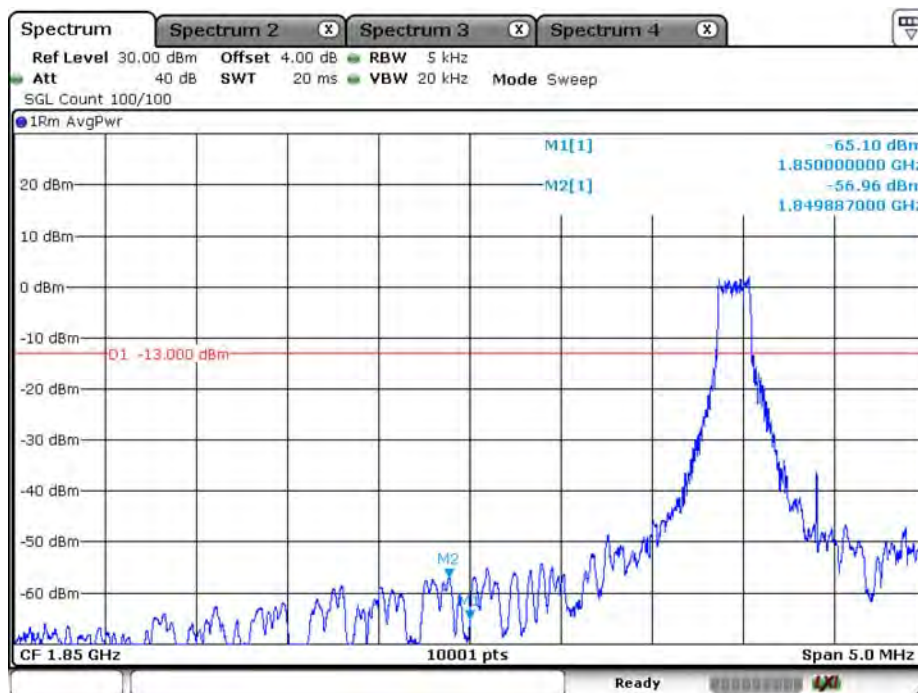
Date: 26.DEC.2019 10:42:38

B25_CH26140_20M_QPSK_6RB0



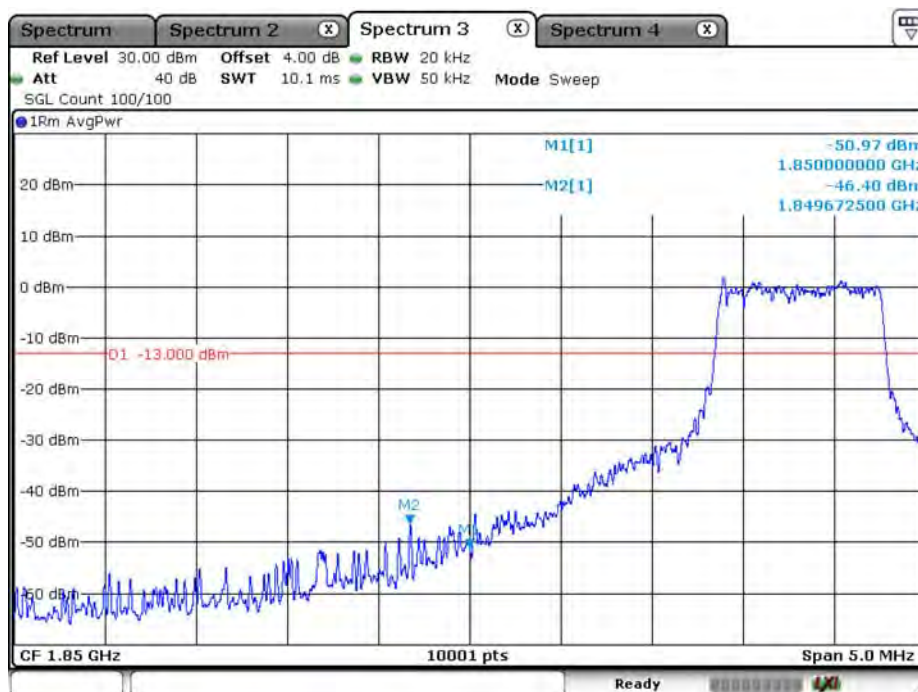
Date: 26.DEC.2019 10:40:22

B25_CH26140_20M_16-QAM_1RB0



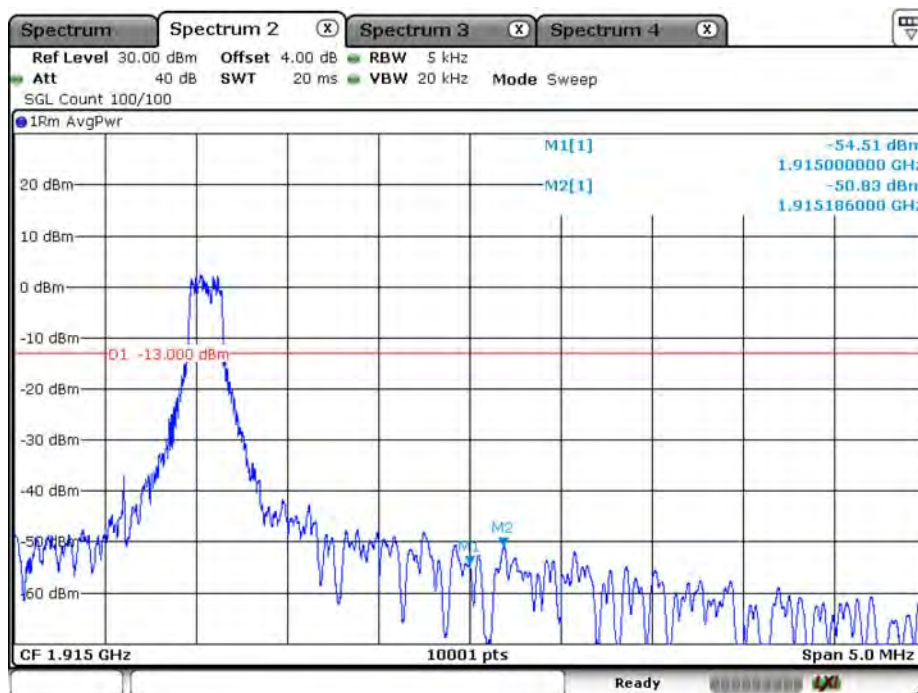
Date: 26.DEC.2019 10:42:04

B25_CH26140_20M_16-QAM_5RB0



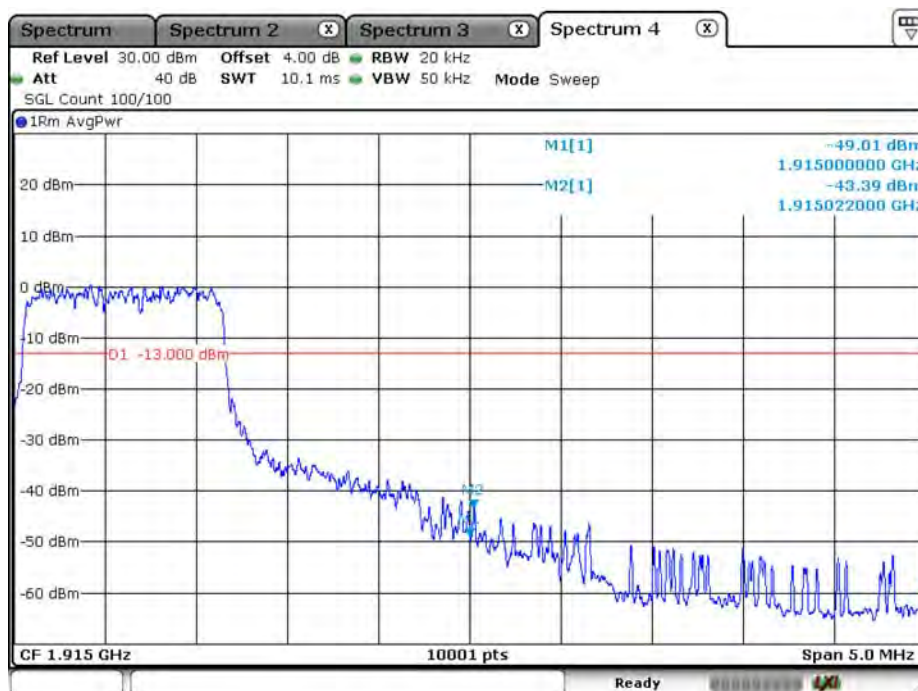
Date: 26.DEC.2019 10:41:42

B25_CH26590_20M_QPSK_1RB5



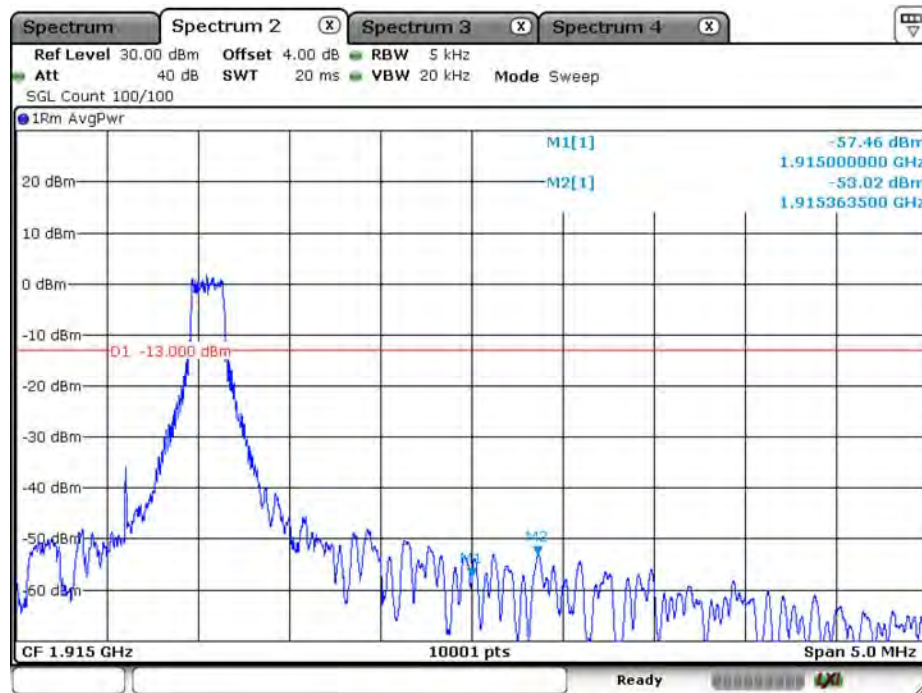
Date: 26.DEC.2019 10:44:32

B25_CH26590_20M_QPSK_6RB0



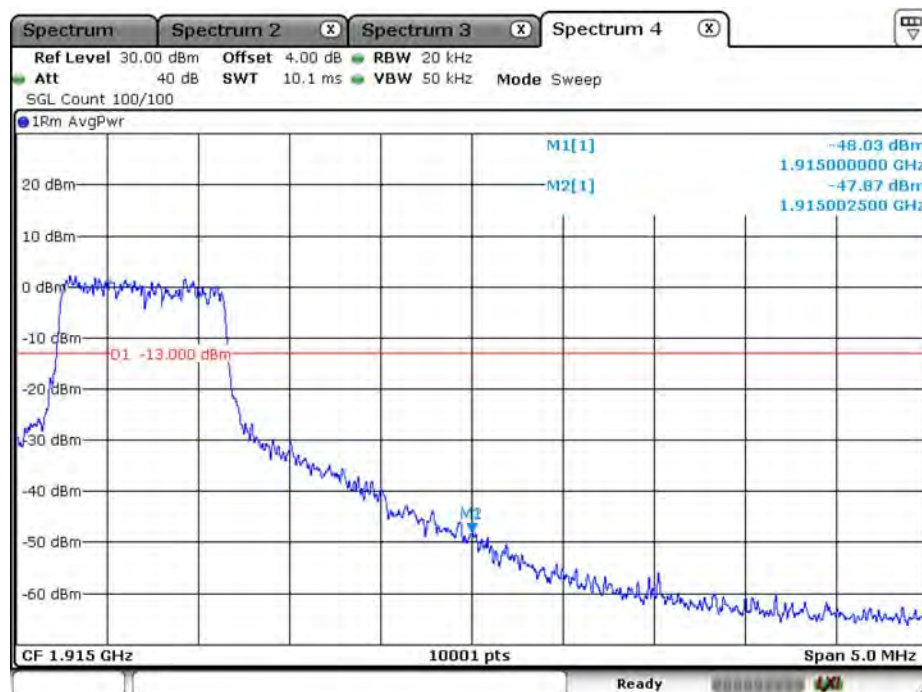
Date: 26.DEC.2019 10:46:07

B25_CH26590_20M_16-QAM_1RB5



Date: 26.DEC.2019 10:45:02

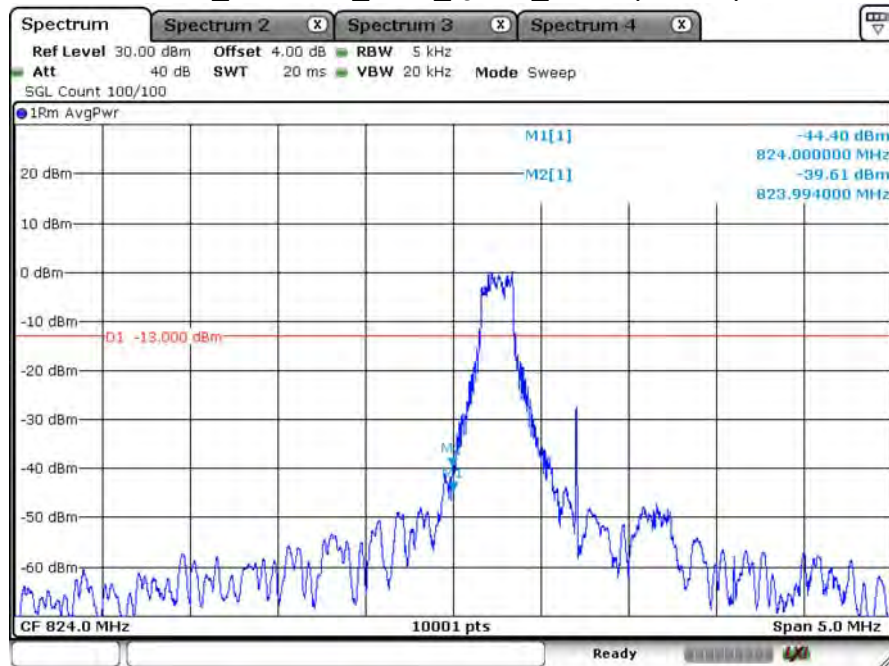
B25_CH26590_20M_16-QAM_5RB1



Date: 26.DEC.2019 10:45:38

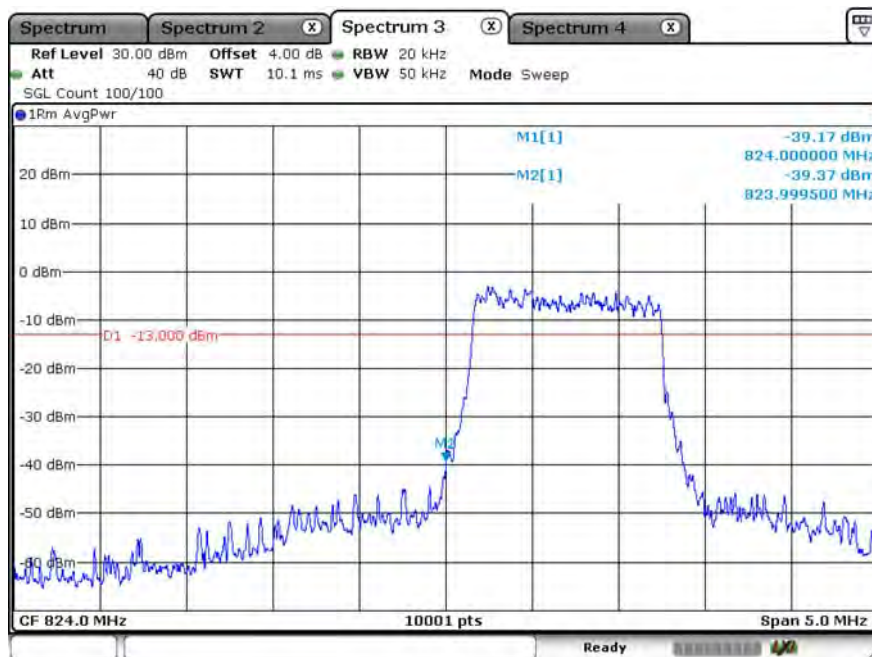
Product	M2M DATA MODULE		
Test Item	Spurious Emissions at Antenna Terminals (Part 22)		
Test Mode	Mode 6: LTE Band 26		
Date of Test	2019/12/27	Test Site	SR12-H
Temperature (°C)	21.0°C	Humidity (%RH)	60%RH

B26_CH26797_1.4M_QPSK_1RB0 (Part 22)



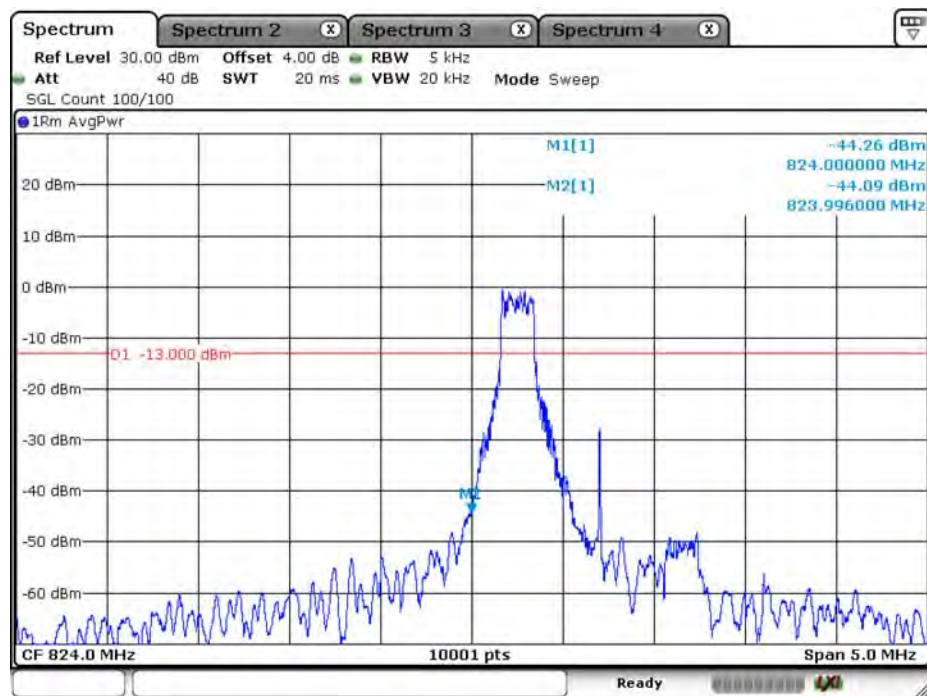
Date: 27 DEC.2019 09:26:52

B26_CH26797_1.4M_QPSK_6RB0 (Part 22)



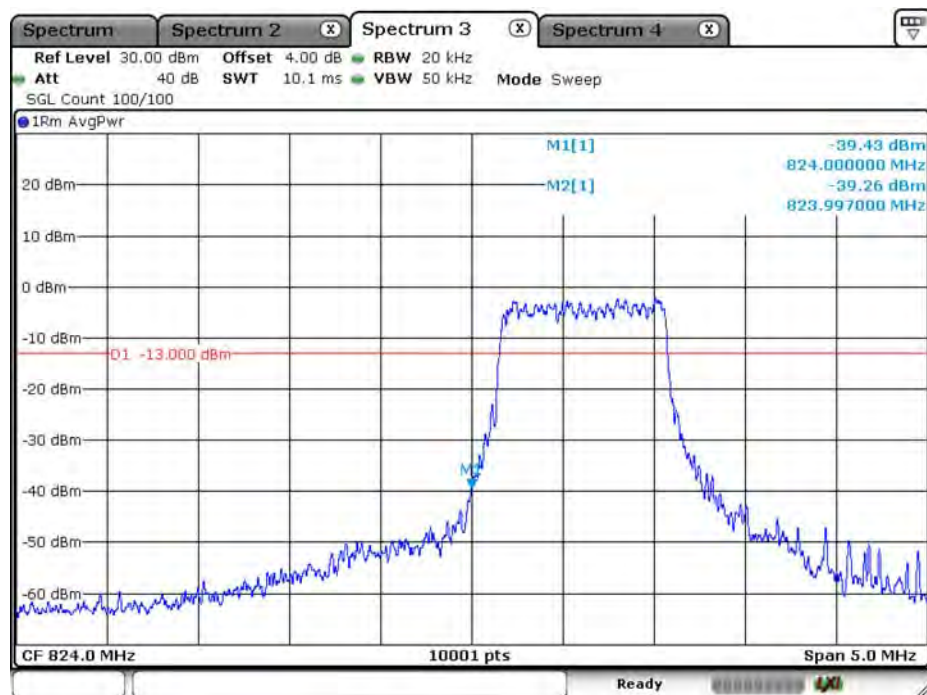
Date: 27 DEC.2019 09:25:29

B26_CH26797_1.4M_16-QAM_1RB0 (Part 22)



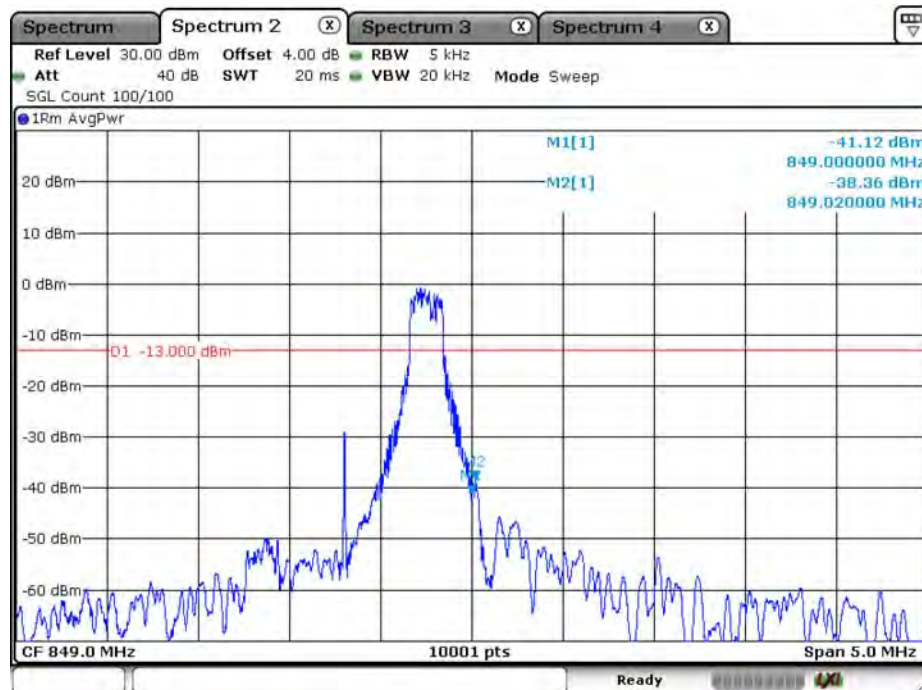
Date: 27.DEC.2019 09:26:31

B26_CH26797_1.4M_16-QAM_5RB0 (Part 22)



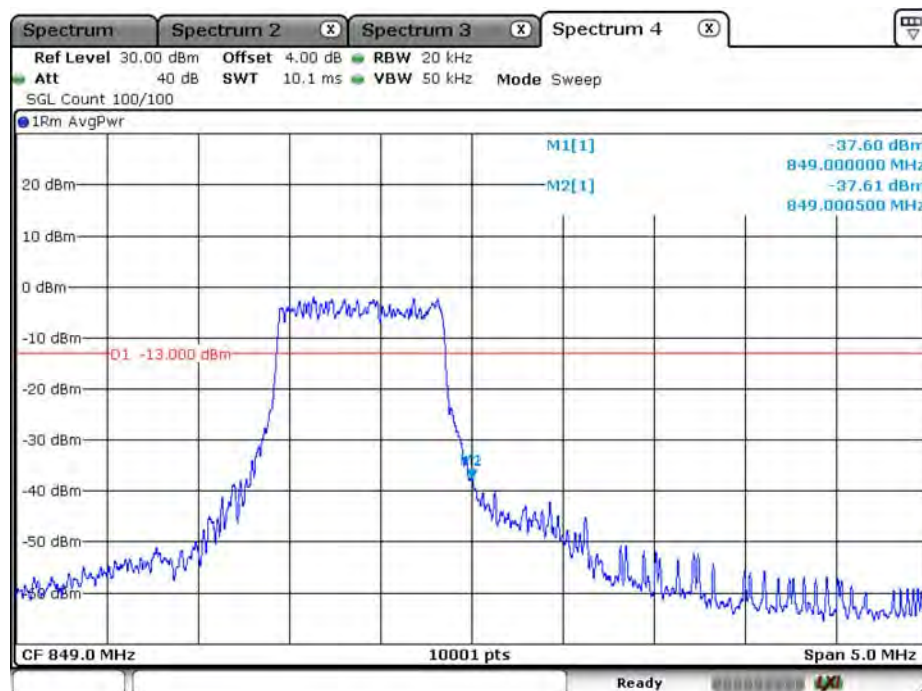
Date: 27.DEC.2019 09:26:09

B26_CH27033_1.4M_QPSK_1RB5 (Part 22)



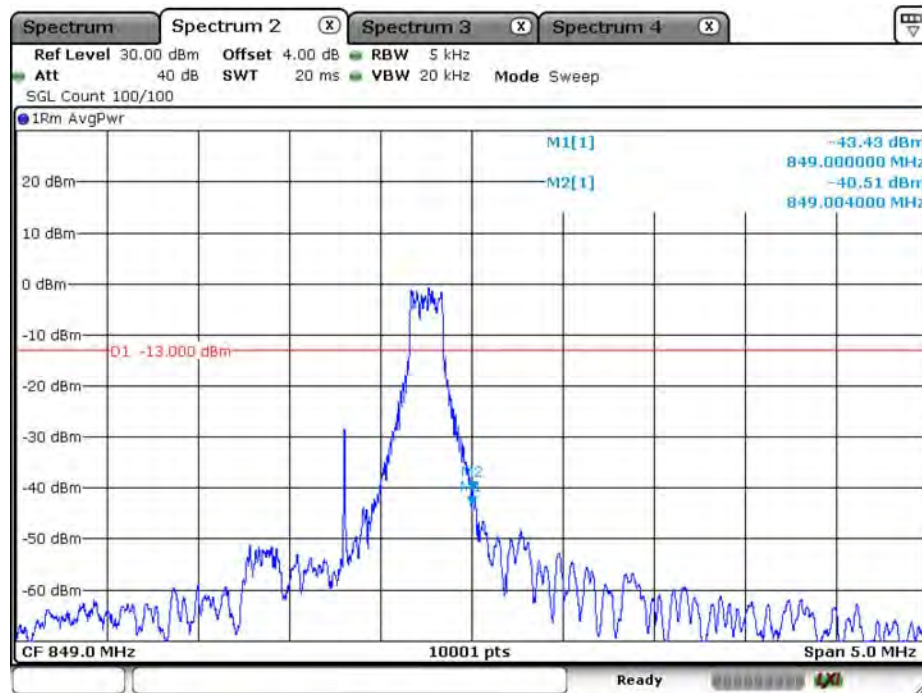
Date: 27.DEC.2019 09:27:27

B26_CH27033_1.4M_QPSK_6RB0 (Part 22)



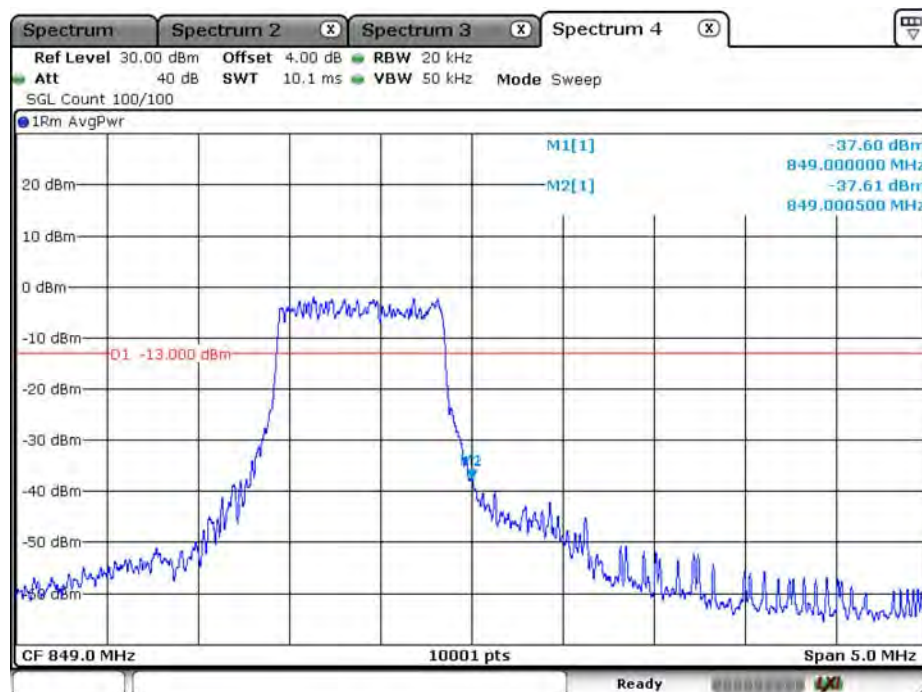
Date: 27.DEC.2019 09:28:16

B26_CH27033_1.4M_16-QAM_1RB5 (Part 22)



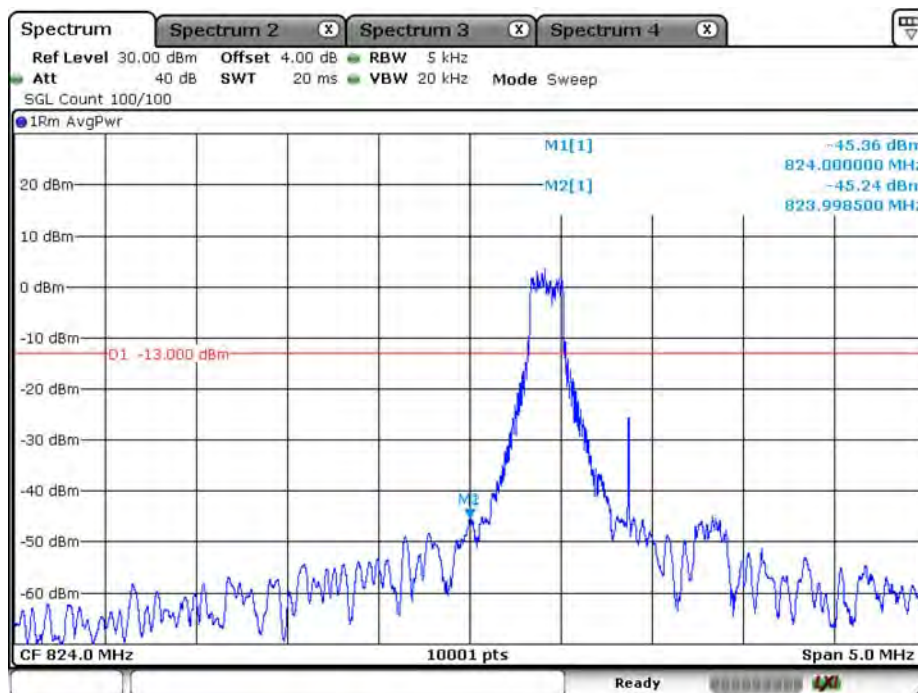
Date: 27.DEC.2019 09:27:51

B26_CH27033_1.4M_16-QAM_5RB1 (Part 22)



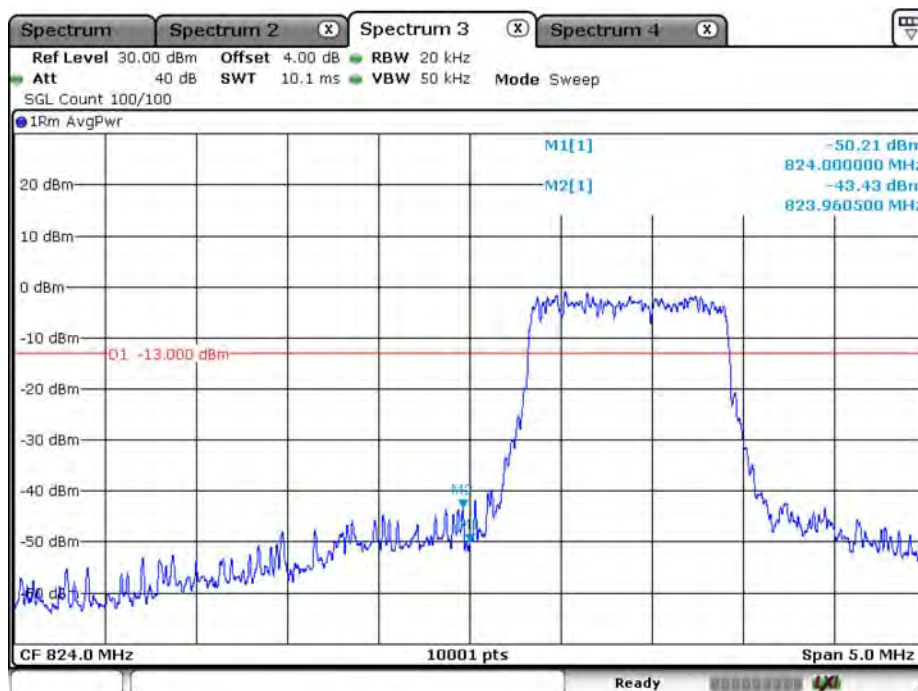
Date: 27.DEC.2019 09:28:16

B26_CH26805_3M_QPSK_1RB0 (Part 22)



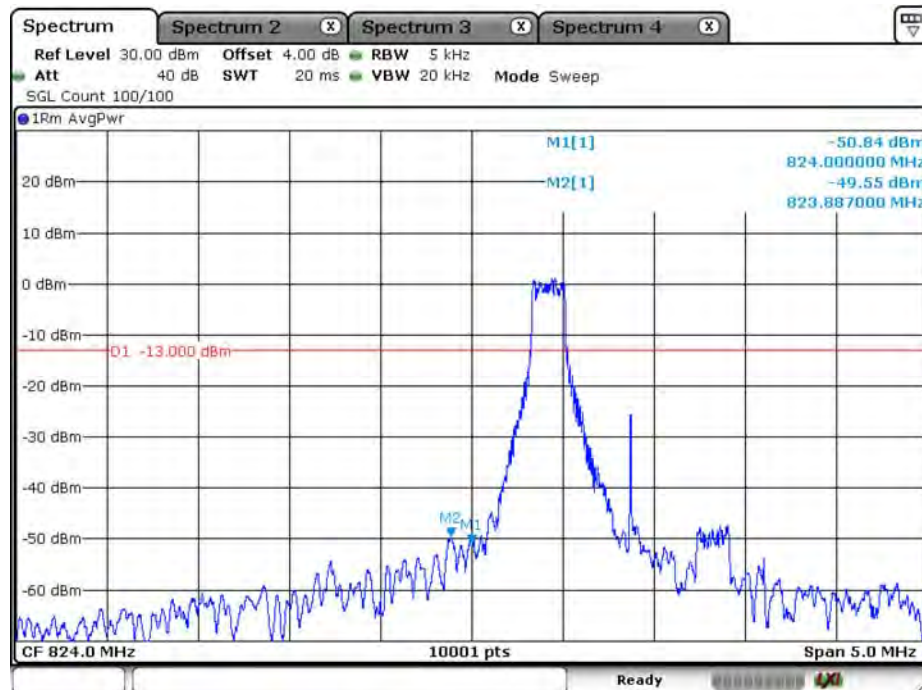
Date: 27.DEC.2019 09:31:43

B26_CH26805_3M_QPSK_6RB0 (Part 22)



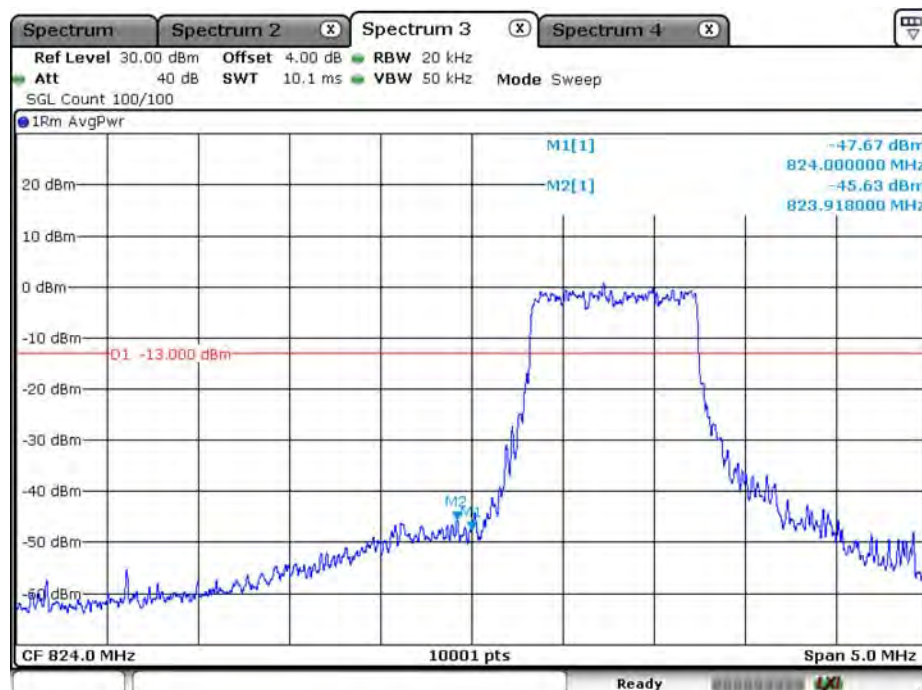
Date: 27.DEC.2019 09:30:12

B26_CH26805_3M_16-QAM_1RB0 (Part 22)



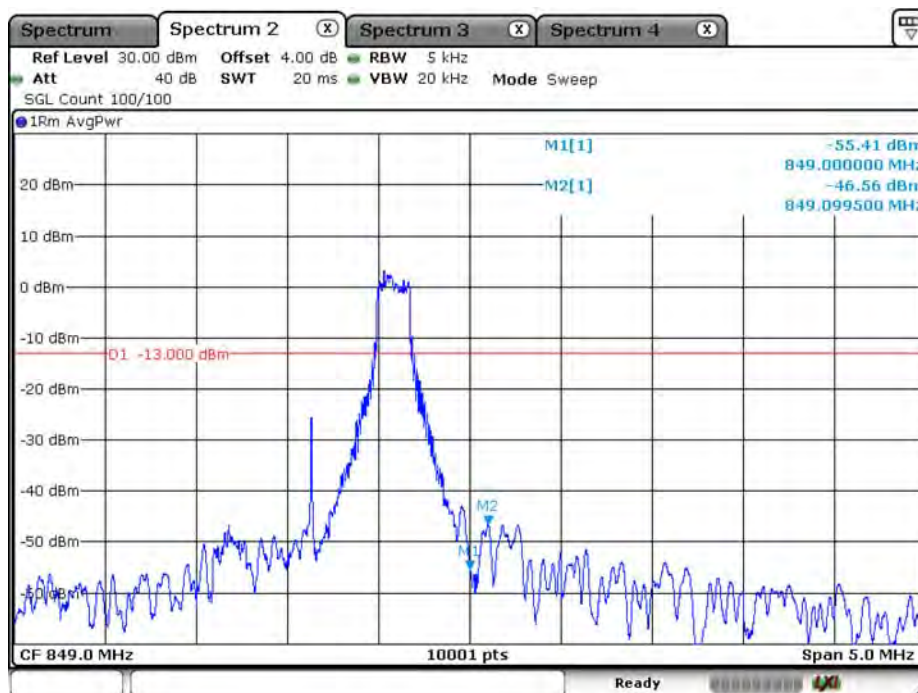
Date: 27.DEC.2019 09:31:16

B26_CH26805_3M_16-QAM_5RB0 (Part 22)



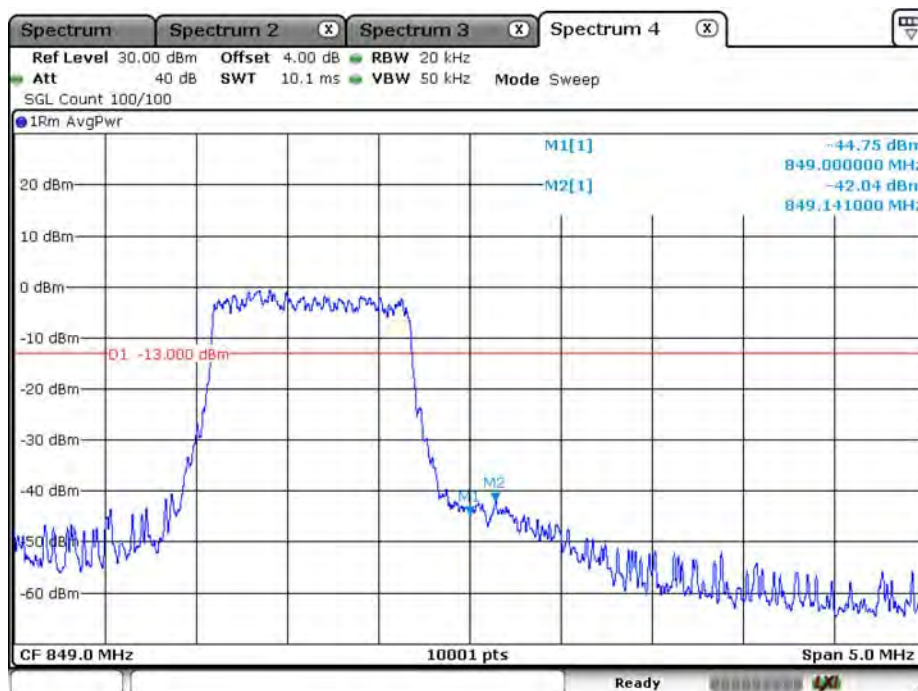
Date: 27.DEC.2019 09:30:46

B26_CH27025_3M_QPSK_1RB5 (Part 22)



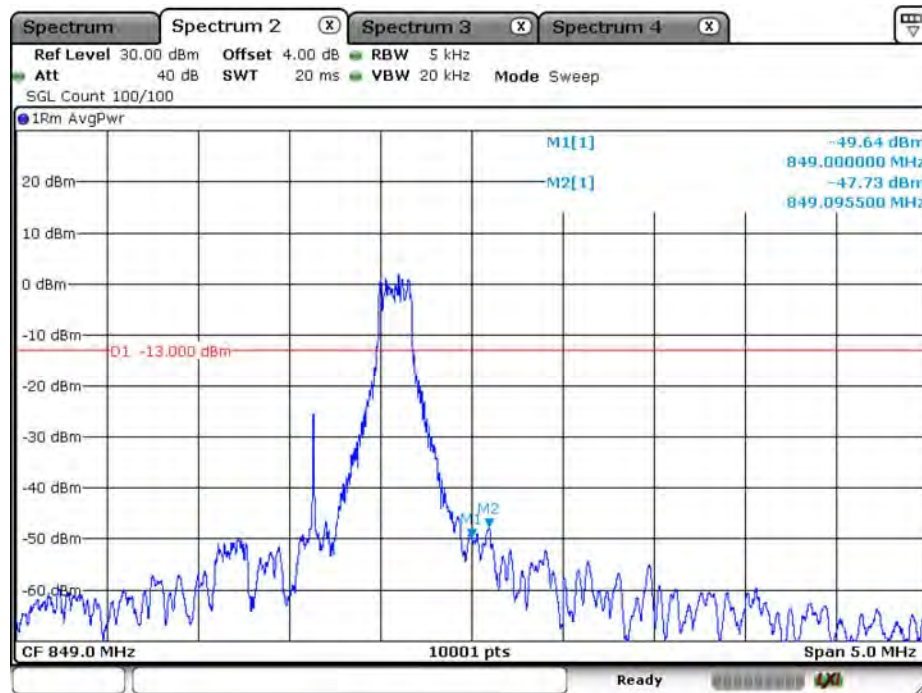
Date: 27.DEC.2019 09:42:40

B26_CH27025_3M_QPSK_6RB0 (Part 22)



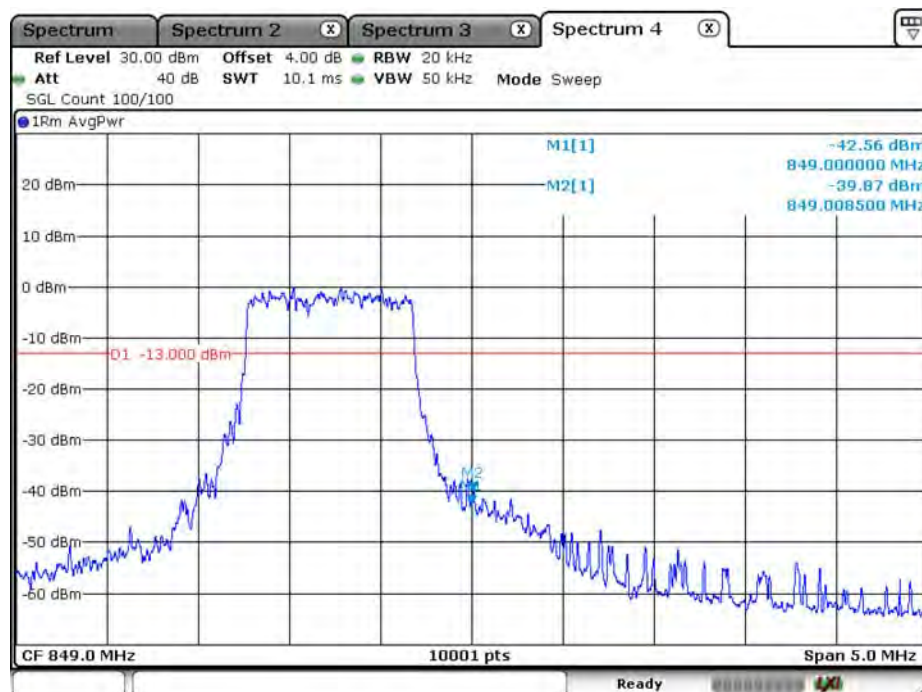
Date: 27.DEC.2019 09:44:39

B26_CH27025_3M_16-QAM_1RB5 (Part 22)



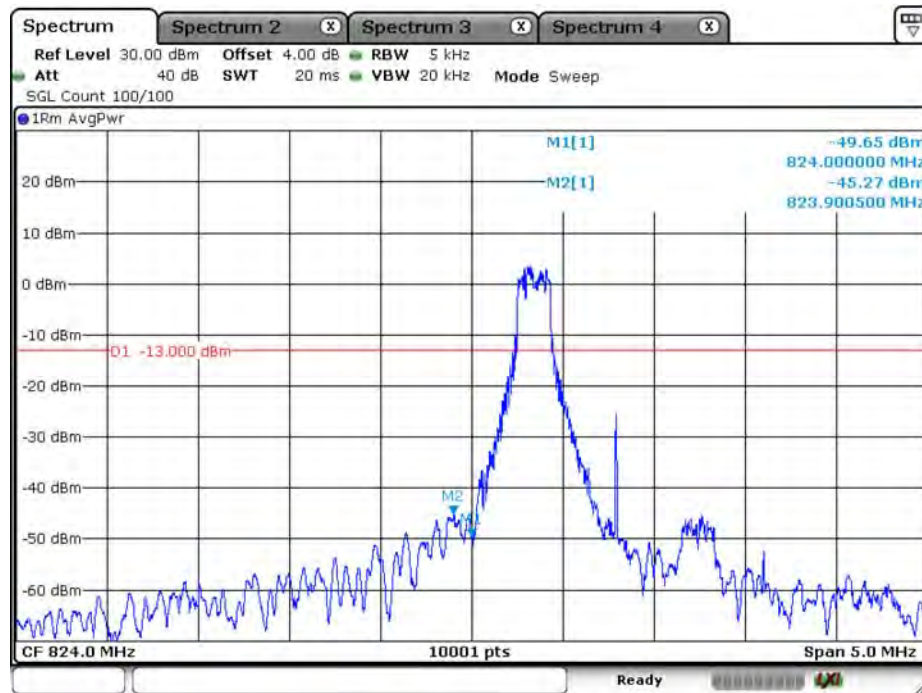
Date: 27.DEC.2019 09:43:15

B26_CH27025_3M_16-QAM_5RB1 (Part 22)



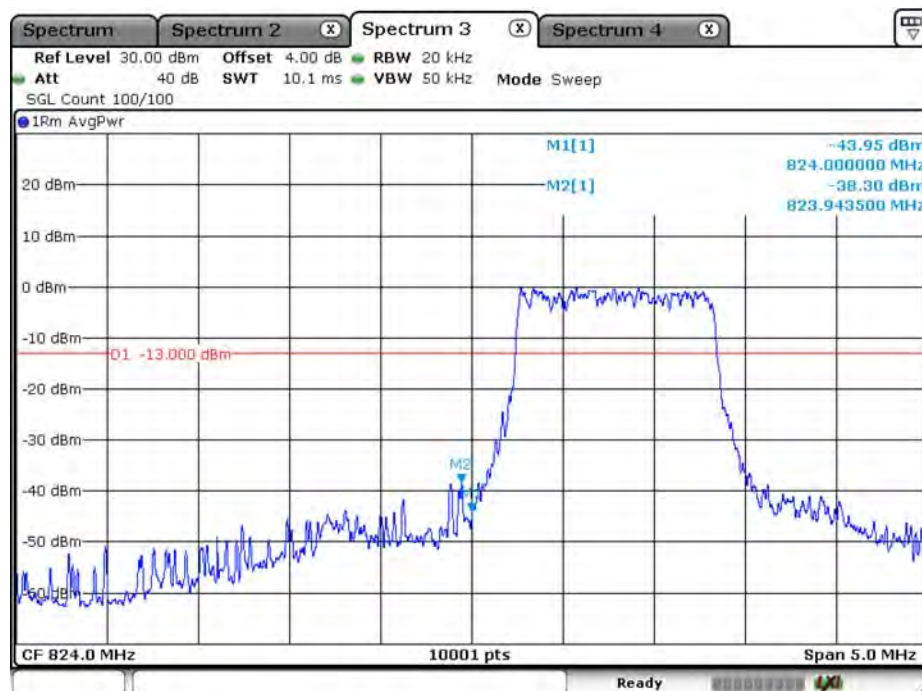
Date: 27.DEC.2019 09:44:15

B26_CH26815_5M_QPSK_1RB0 (Part 22)



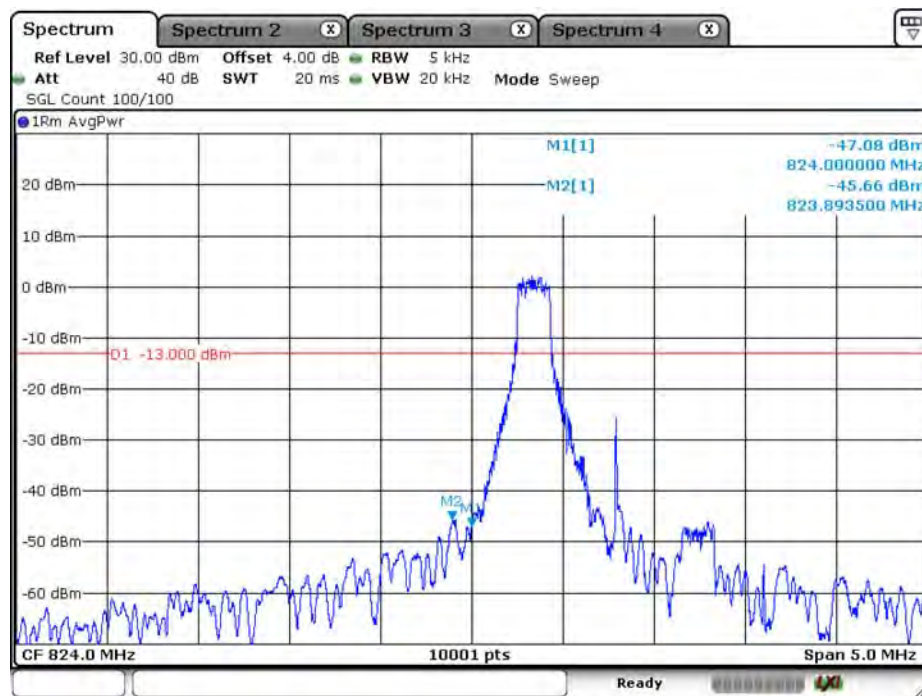
Date: 27.DEC.2019 09:48:24

B26_CH26815_5M_QPSK_6RB0 (Part 22)



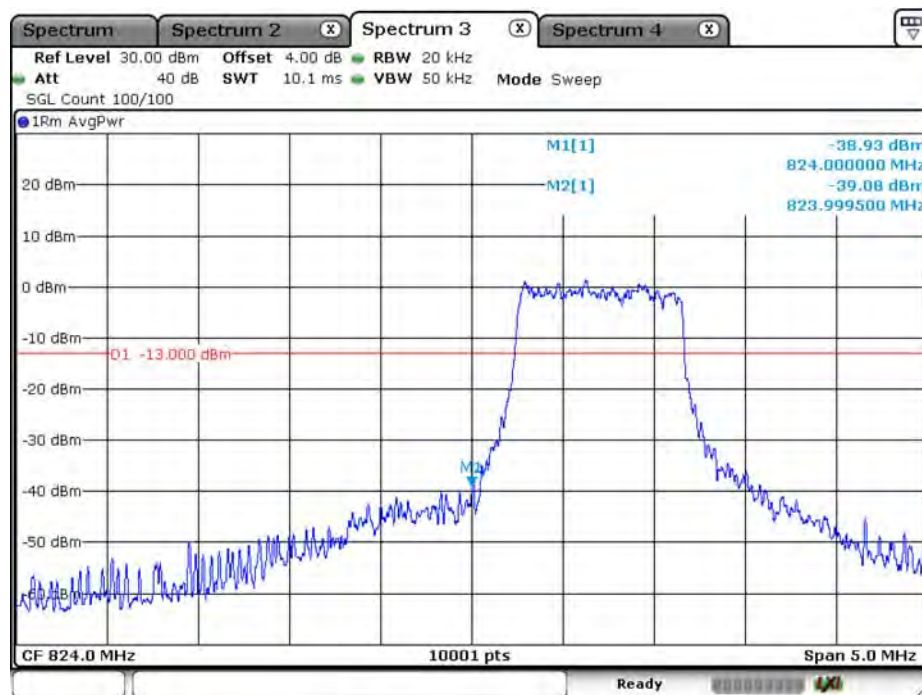
Date: 27.DEC.2019 09:46:06

B26_CH26815_5M_16-QAM_1RB0 (Part 22)



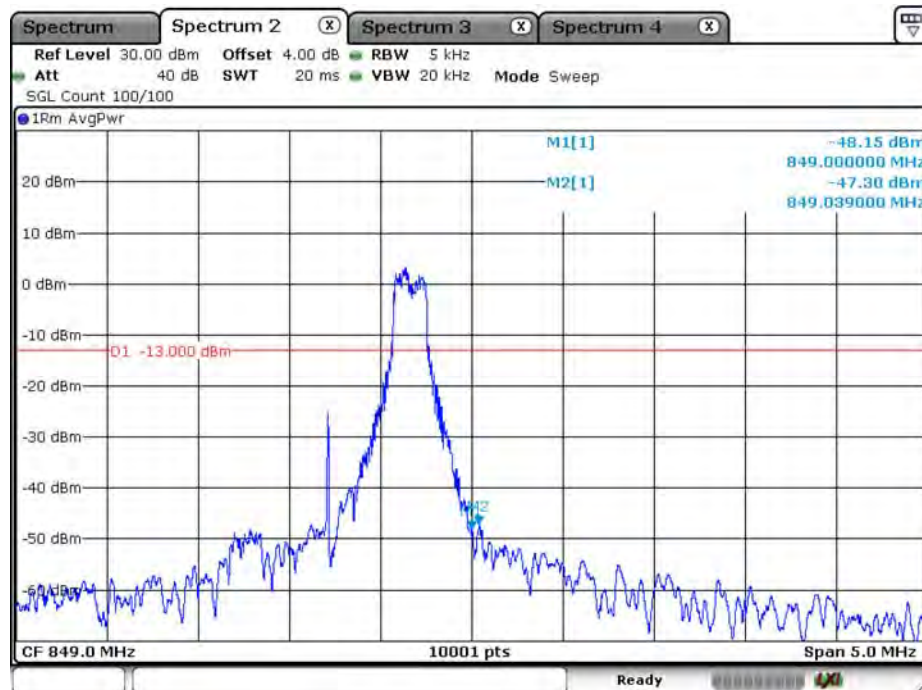
Date: 27.DEC.2019 09:47:59

TE_B26_CH26815_5M_16-QAM_5RB0 (Part 22)



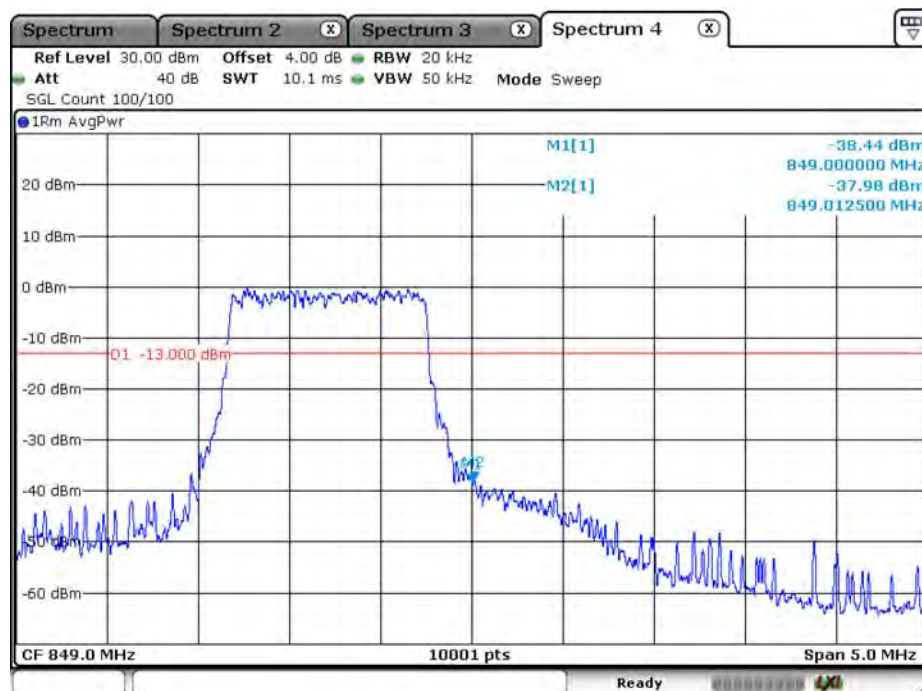
Date: 27.DEC.2019 09:46:42

B26_CH27015_5M_QPSK_1RB5 (Part 22)



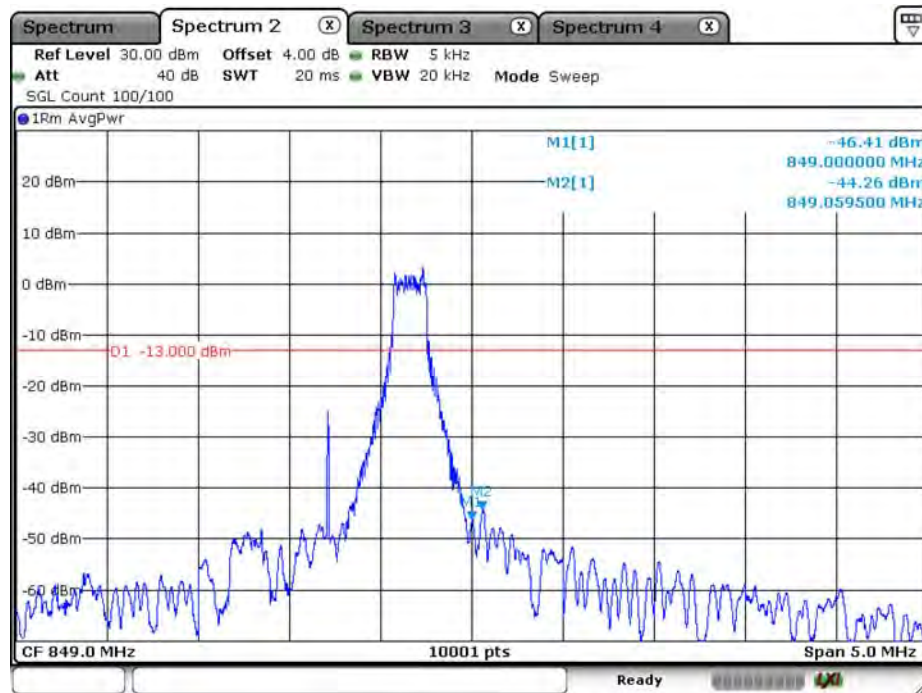
Date: 27.DEC.2019 09:49:24

B26_CH27015_5M_QPSK_6RB0 (Part 22)



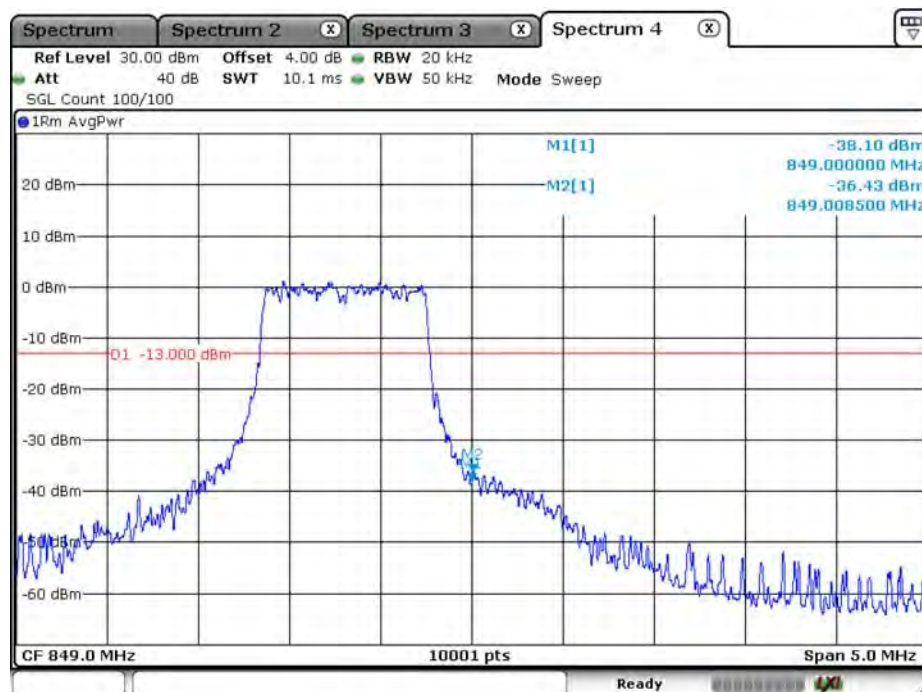
Date: 27.DEC.2019 09:51:00

B26_CH27015_5M_16-QAM_1RB5 (Part 22)



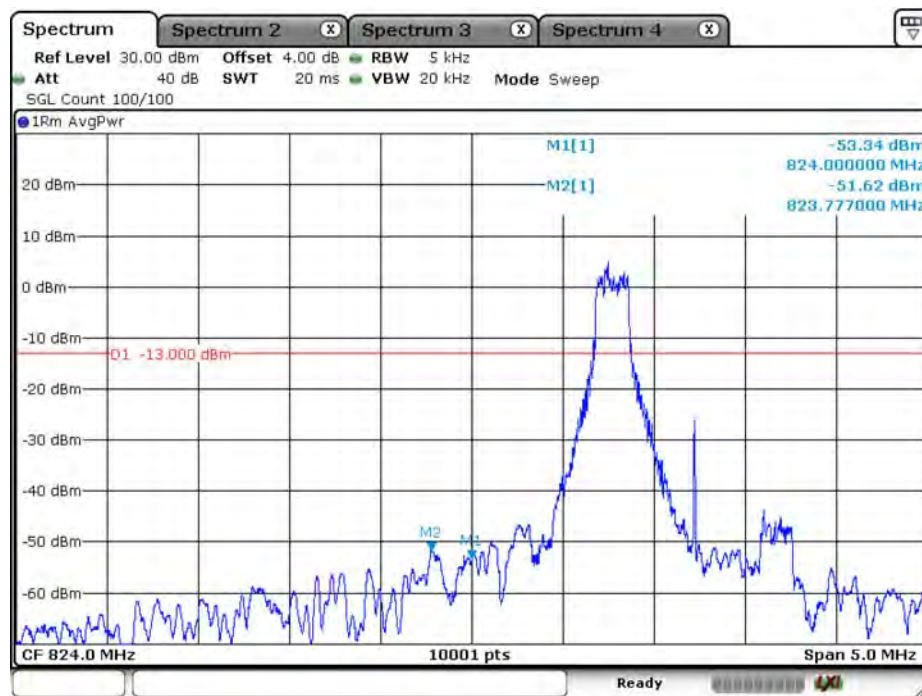
Date: 27.DEC.2019 09:49:50

B26_CH27015_5M_16-QAM_5RB1 (Part 22)



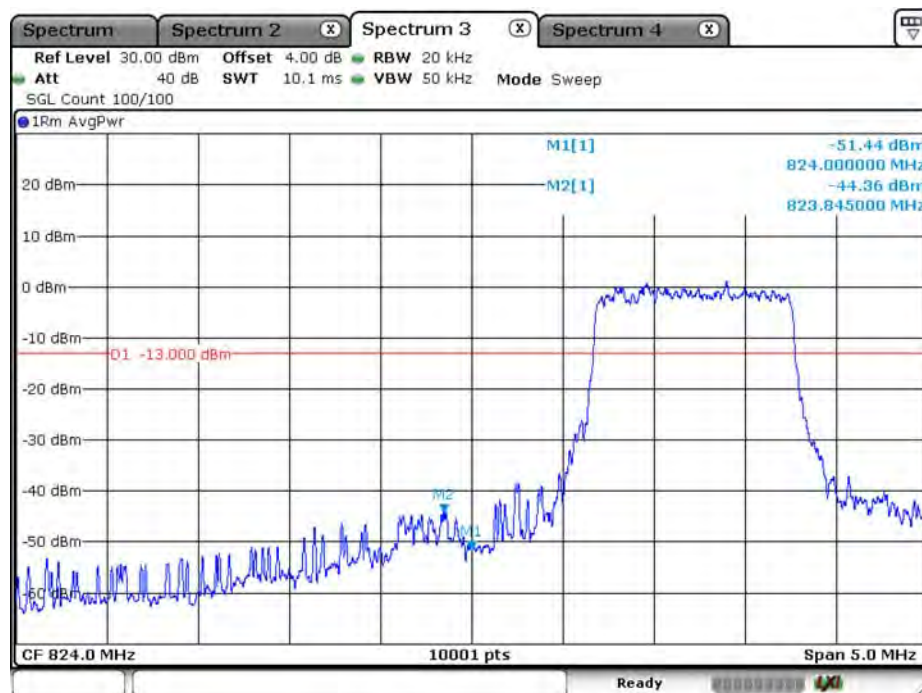
Date: 27.DEC.2019 09:50:31

B26_CH26840_10M_QPSK_1RB0 (Part 22)



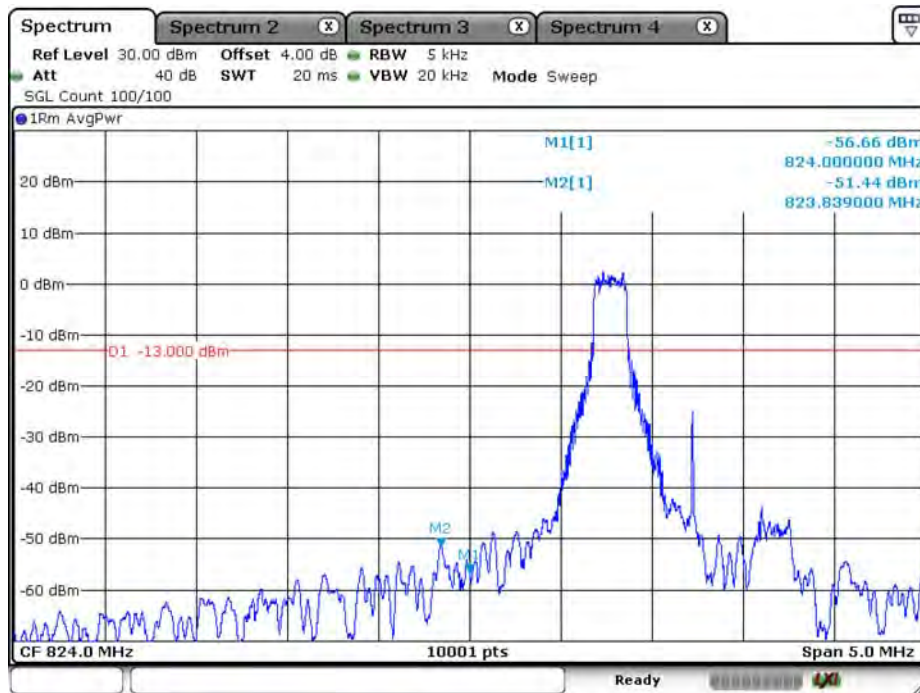
Date: 27.DEC.2019 09:53:40

B26_CH26840_10M_QPSK_6RB0 (Part 22)



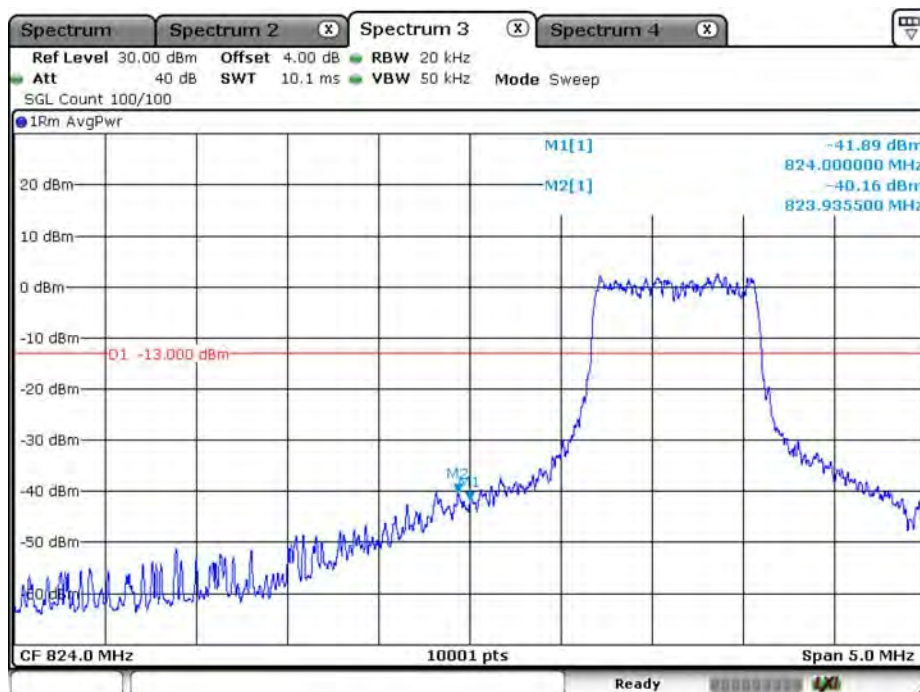
Date: 27.DEC.2019 09:52:13

B26_CH26840_10M_16-QAM_1RB0 (Part 22)



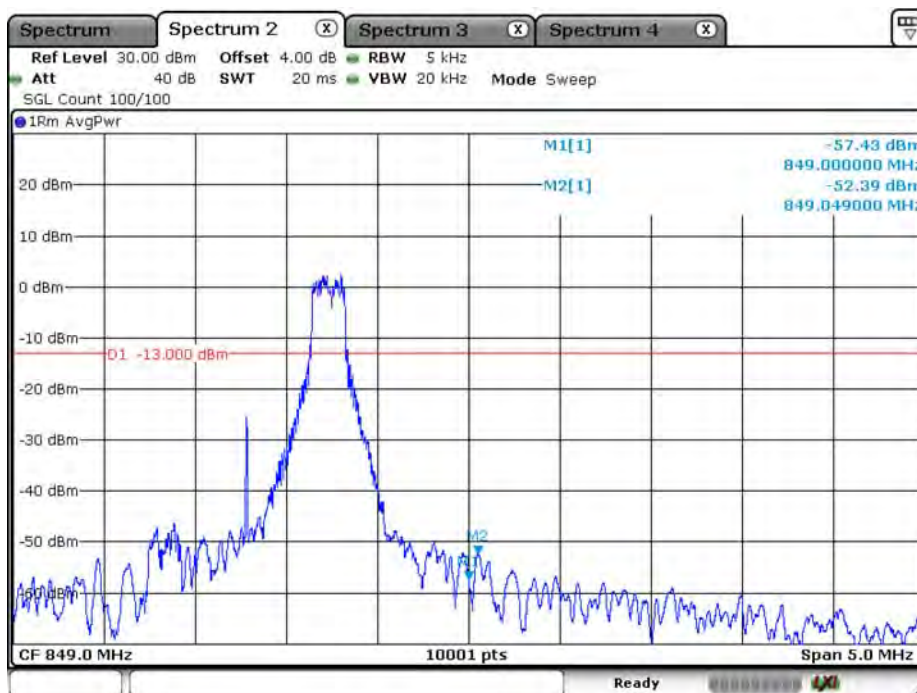
Date: 27.DEC.2019 09:53:10

B26_CH26840_10M_16-QAM_5RB0 (Part 22)



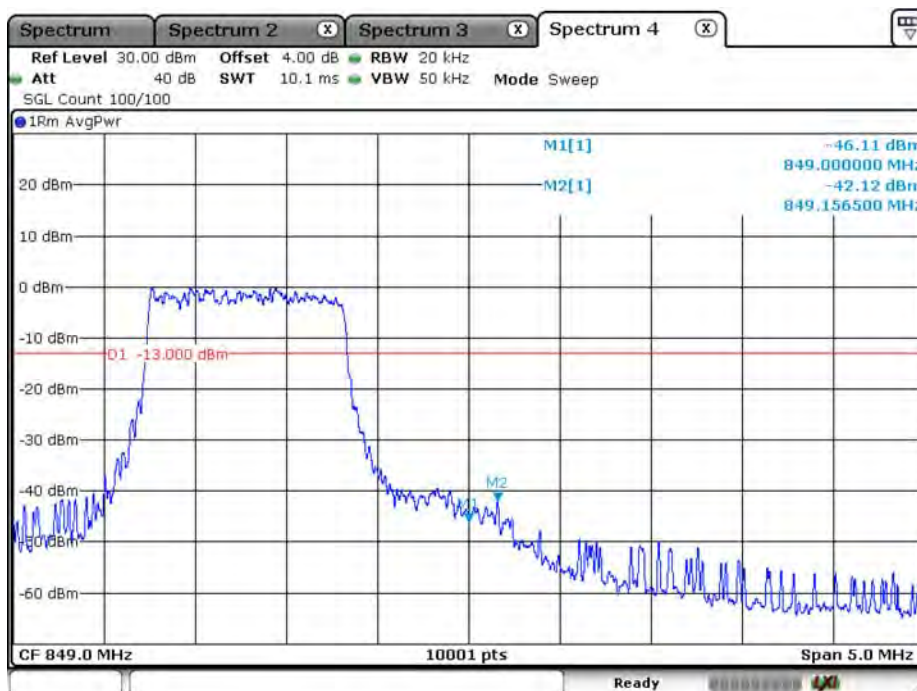
Date: 27.DEC.2019 09:52:45

B26_CH26990_10M_QPSK_1RB5 (Part 22)



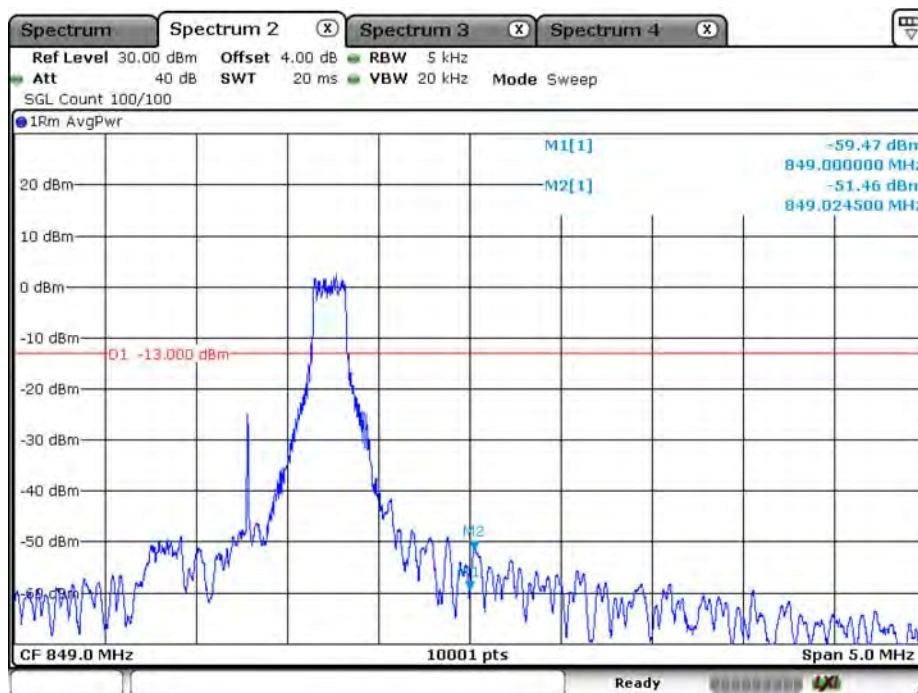
Date: 27 DEC 2019 09:54:32

B26_CH26990_10M_QPSK_6RB0 (Part 22)



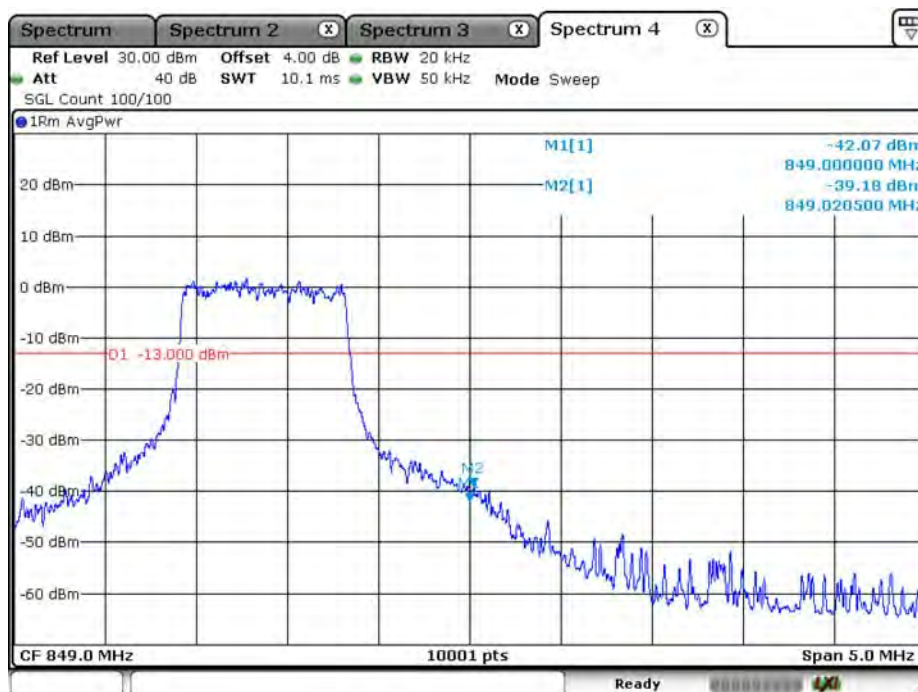
Date: 27 DEC 2019 09:56:09

B26_CH26990_10M_16-QAM_1RB5 (Part 22)



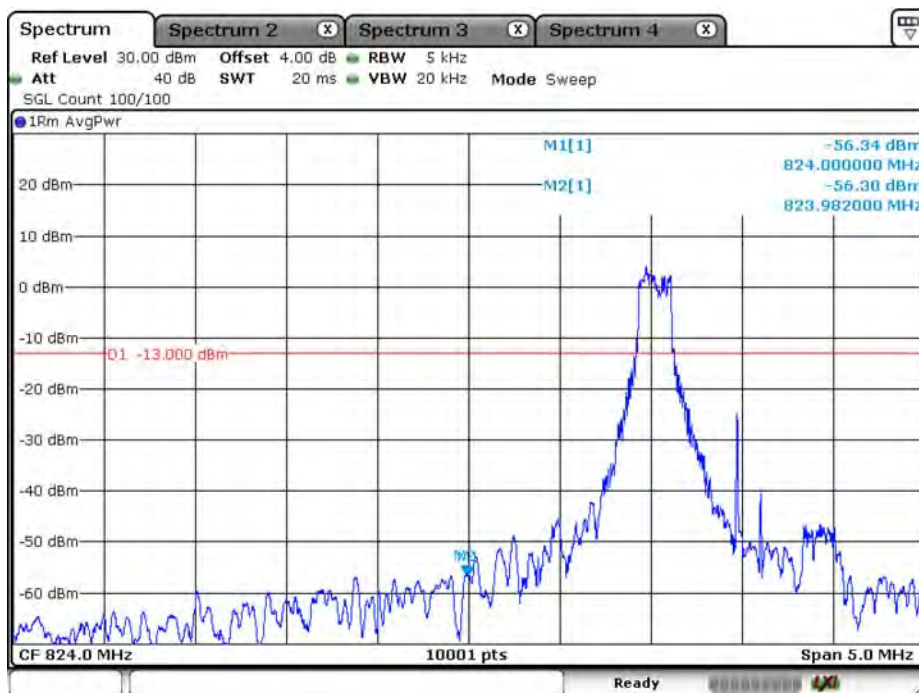
Date: 27.DEC.2019 09:55:06

B26_CH26990_10M_16-QAM_5RB1 (Part 22)



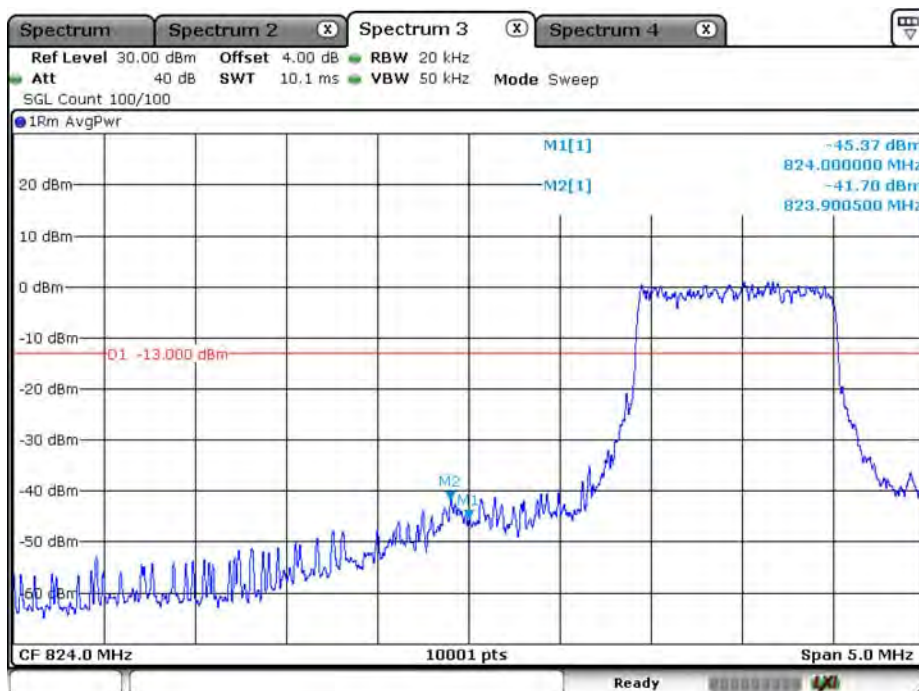
Date: 27.DEC.2019 09:55:33

B26_CH26865_15M_QPSK_1RB0 (Part 22)



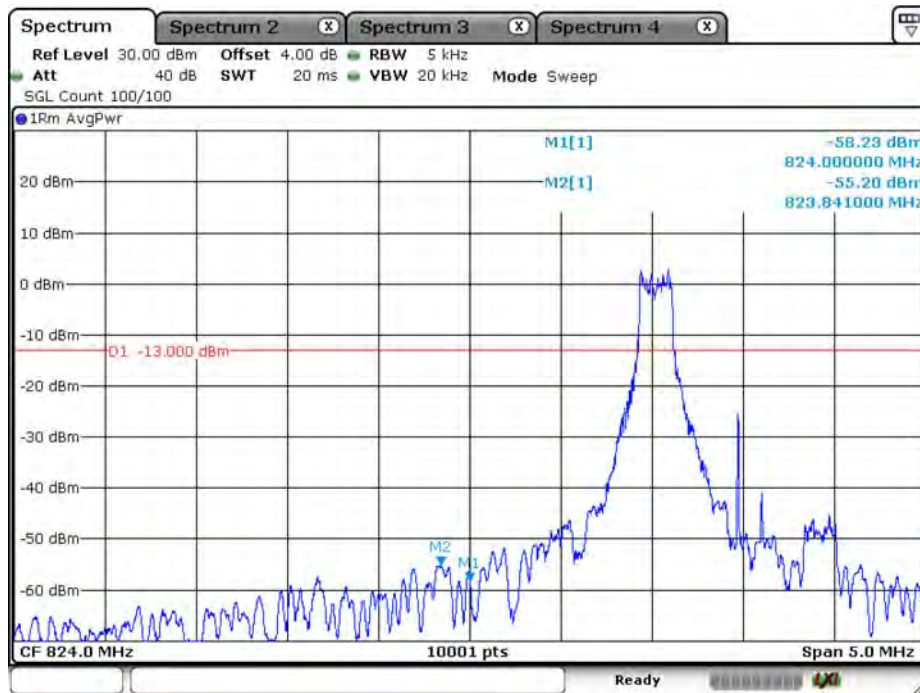
Date: 27.DEC.2019 09:58:59

B26_CH26865_15M_QPSK_6RB0 (Part 22)



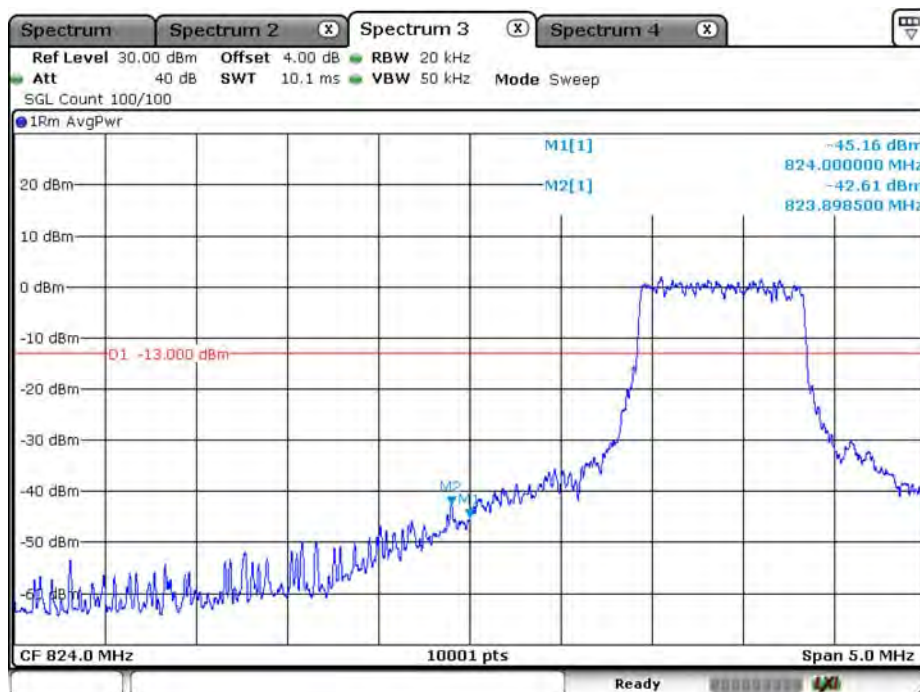
Date: 27.DEC.2019 09:57:35

B26_CH26865_15M_16-QAM_1RB0 (Part 22)



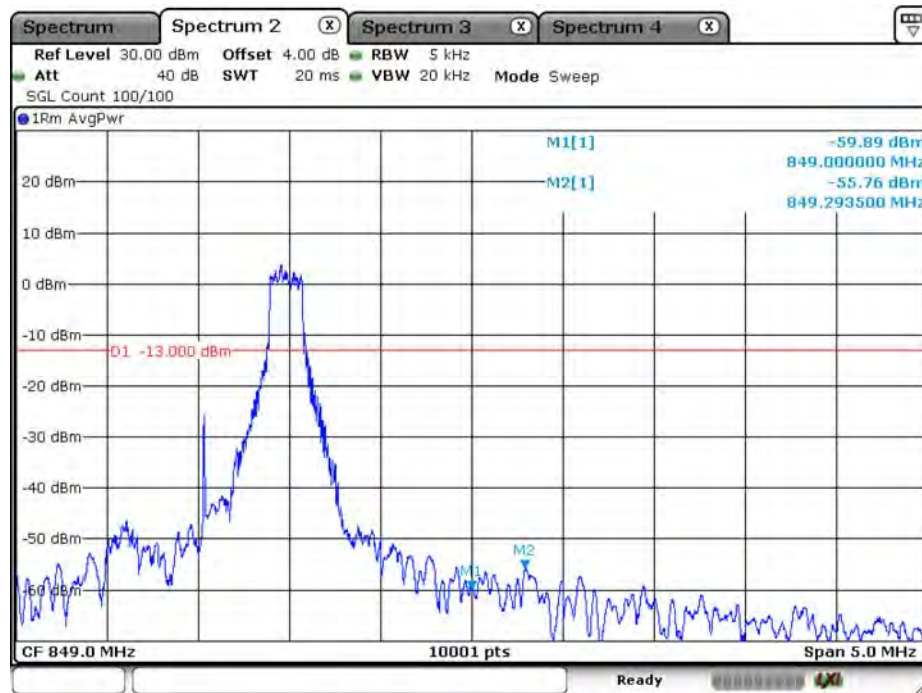
Date: 27.DEC.2019 09:58:35

B26_CH26865_15M_16-QAM_5RB0 (Part 22)



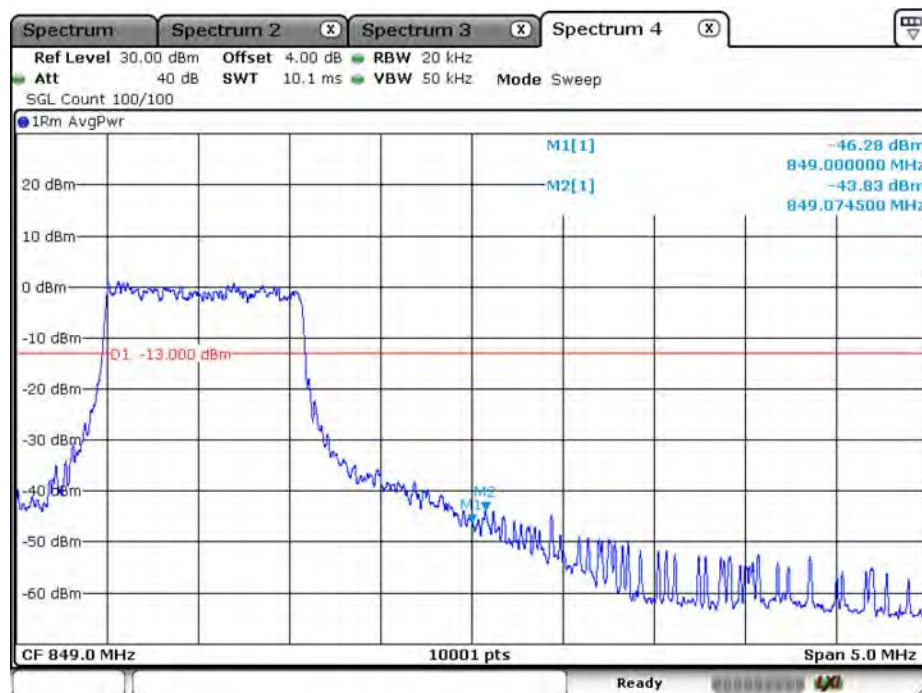
Date: 27.DEC.2019 09:58:06

B26_CH26965_15M_QPSK_1RB5 (Part 22)



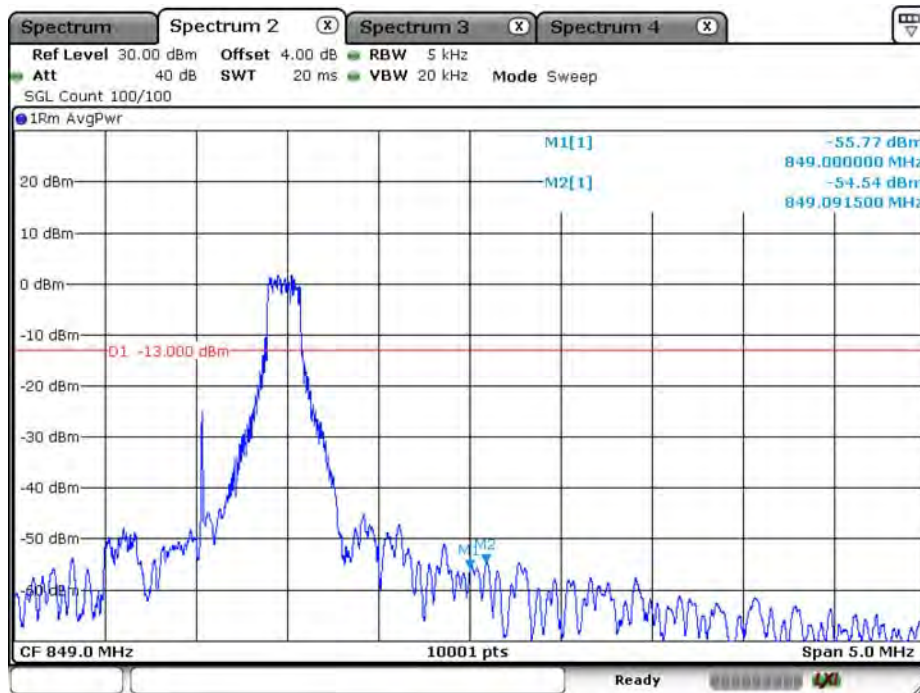
Date: 27.DEC.2019 10:00:30

B26_CH26965_15M_QPSK_6RB0 (Part 22)



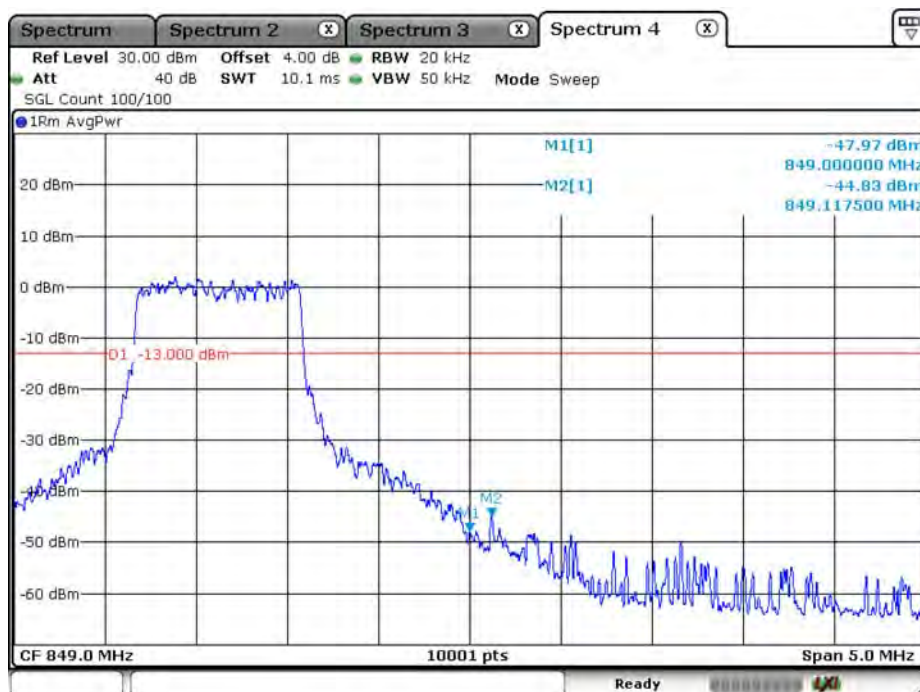
Date: 27.DEC.2019 10:01:39

B26_CH26965_15M_16-QAM_1RB5 (Part 22)



Date: 27.DEC.2019 10:00:56

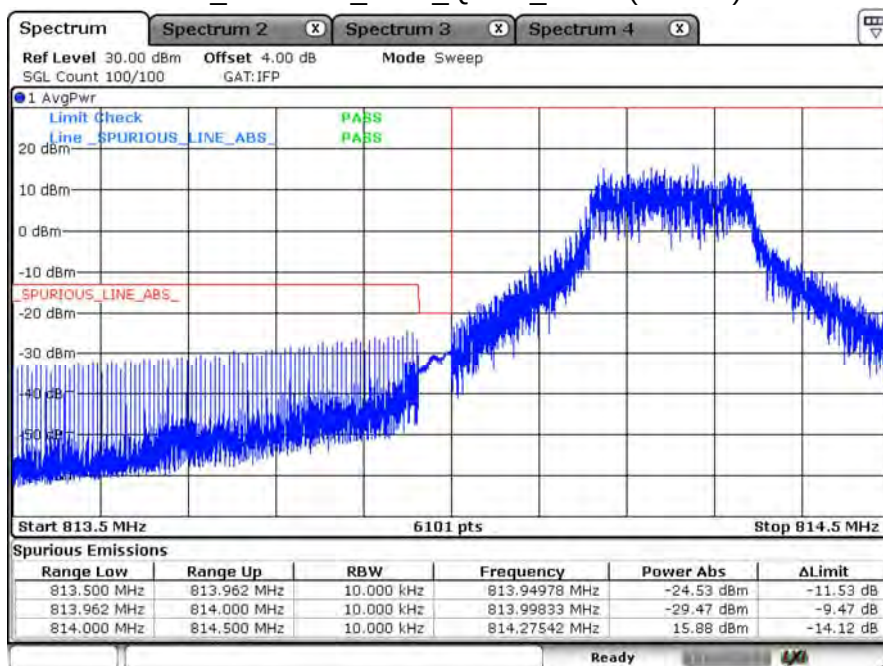
TE_B26_CH26965_15M_16-QAM_5RB1 (Part 22)



Date: 27.DEC.2019 10:01:18

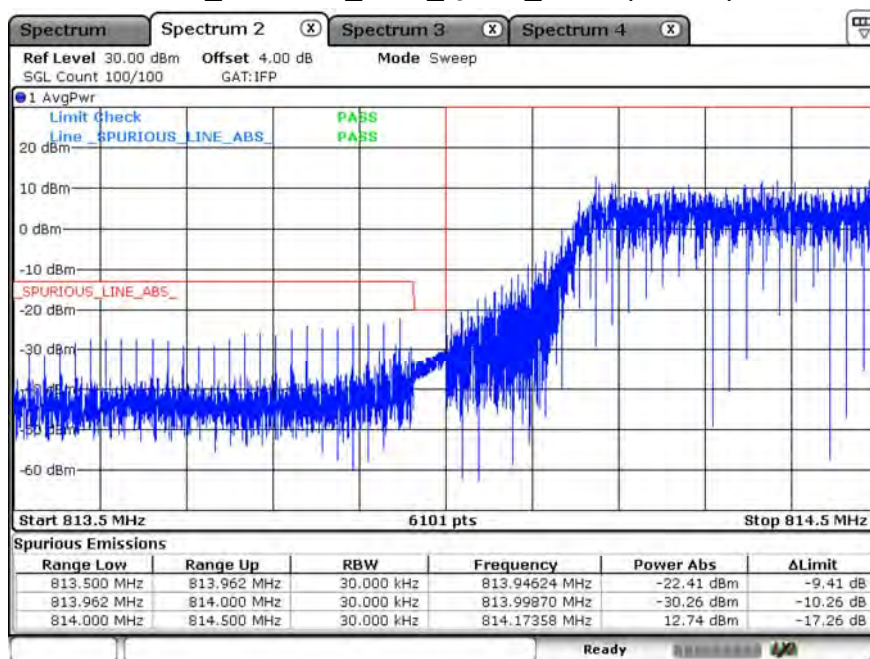
Product	M2M DATA MODULE		
Test Item	Spurious Emissions at Antenna Terminals (Part 90)		
Test Mode	Mode 6: LTE Band 26		
Date of Test	2019/12/26	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	60%RH

B26_CH26697_1.4M_QPSK_1RB0 (Part 90)



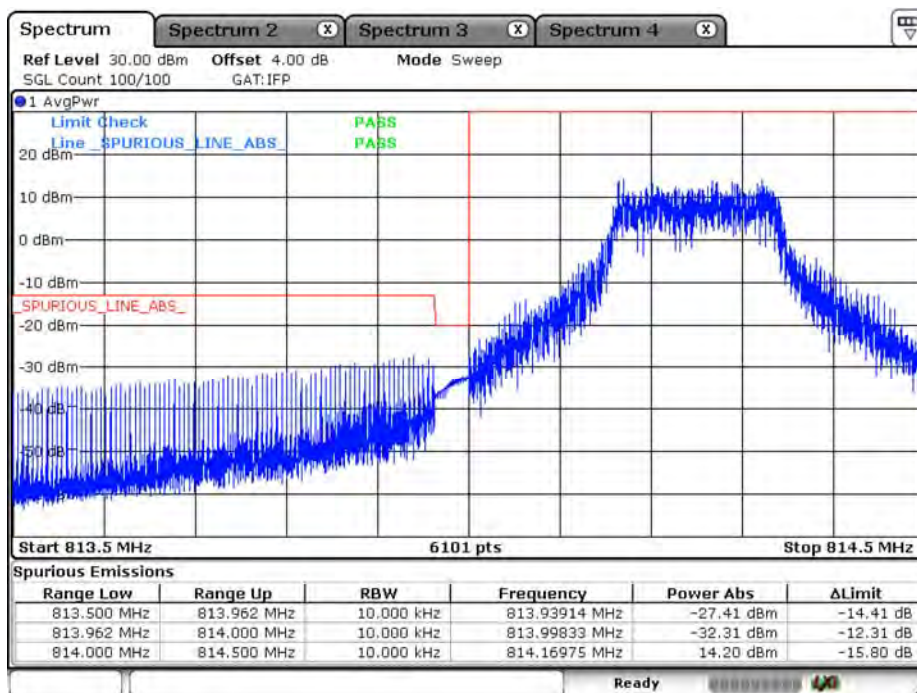
Date: 26 DEC 2019 14:09:15

B26_CH26697_1.4M_QPSK_6RB0 (Part 90)



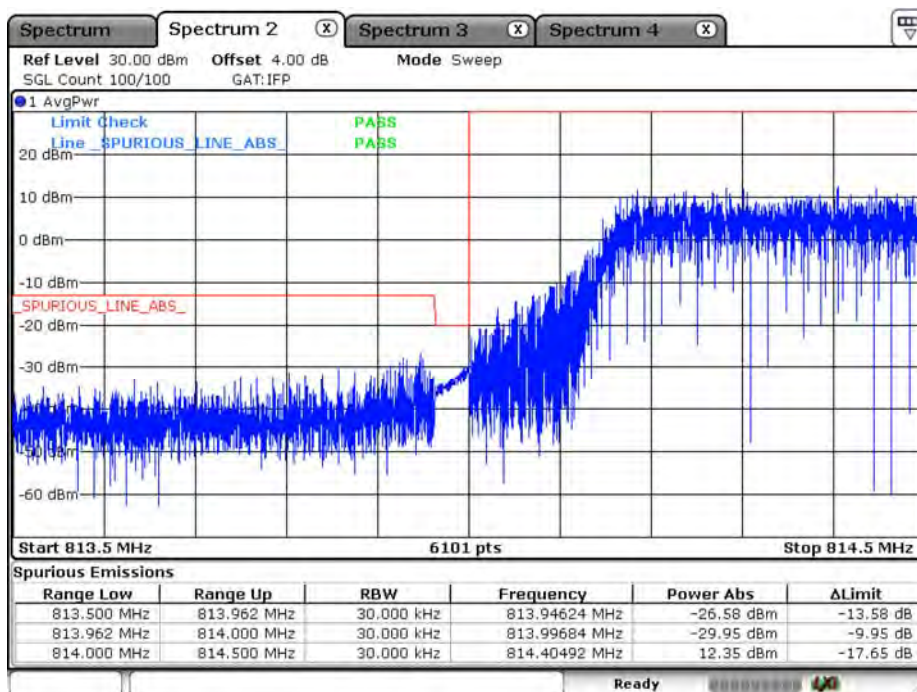
Date: 26 DEC 2019 14:12:28

B26_CH26697_1.4M_16-QAM_1RB0 (Part 90)



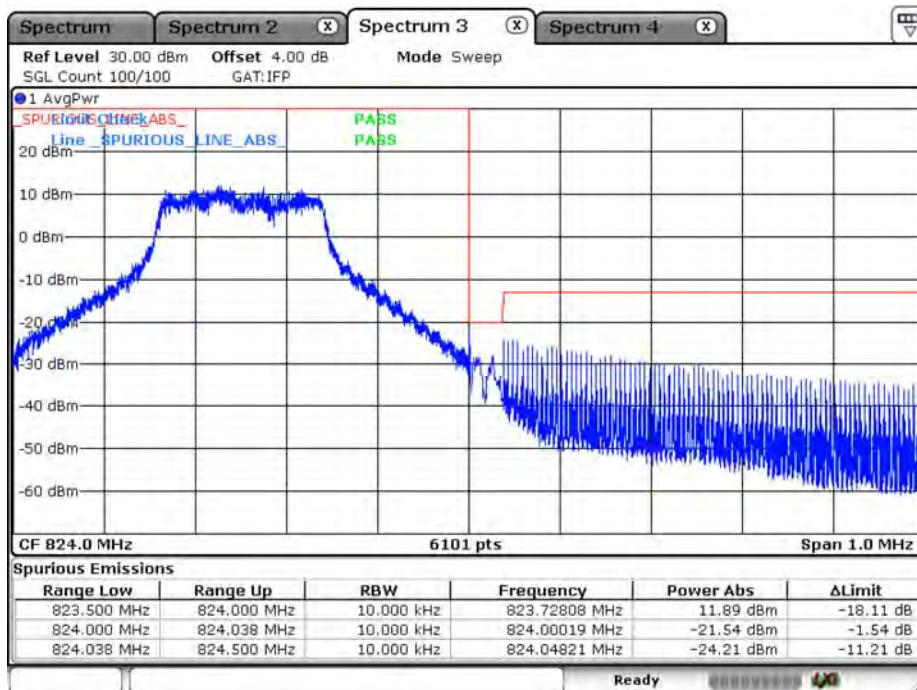
Date: 26.DEC.2019 14:01:11

B26_CH26697_1.4M_16-QAM_5RB0 (Part 90)



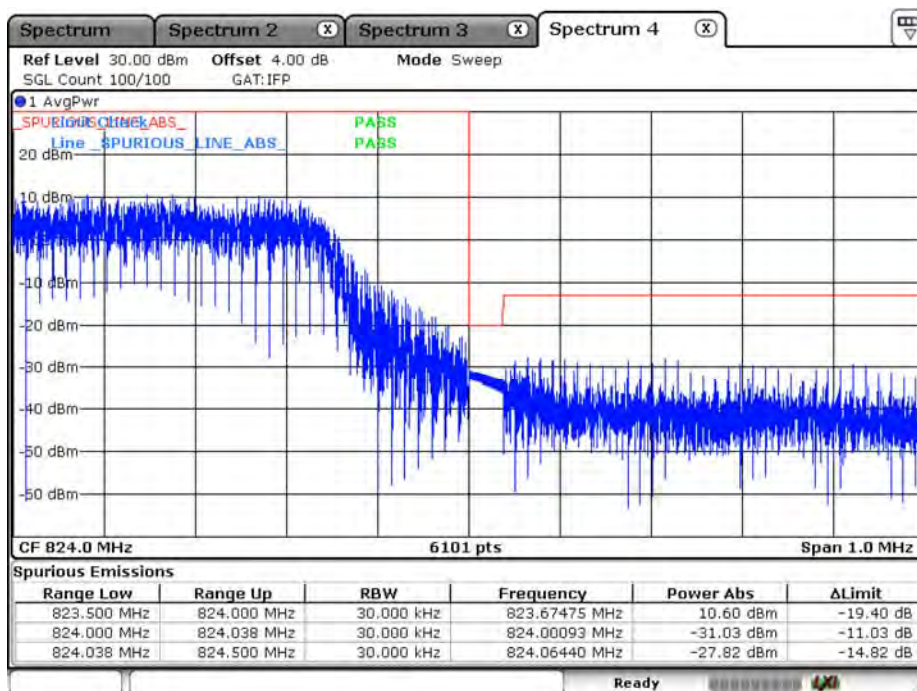
Date: 26.DEC.2019 14:15:19

B26_CH26783_1.4M_QPSK_1RB5 (Part 90)



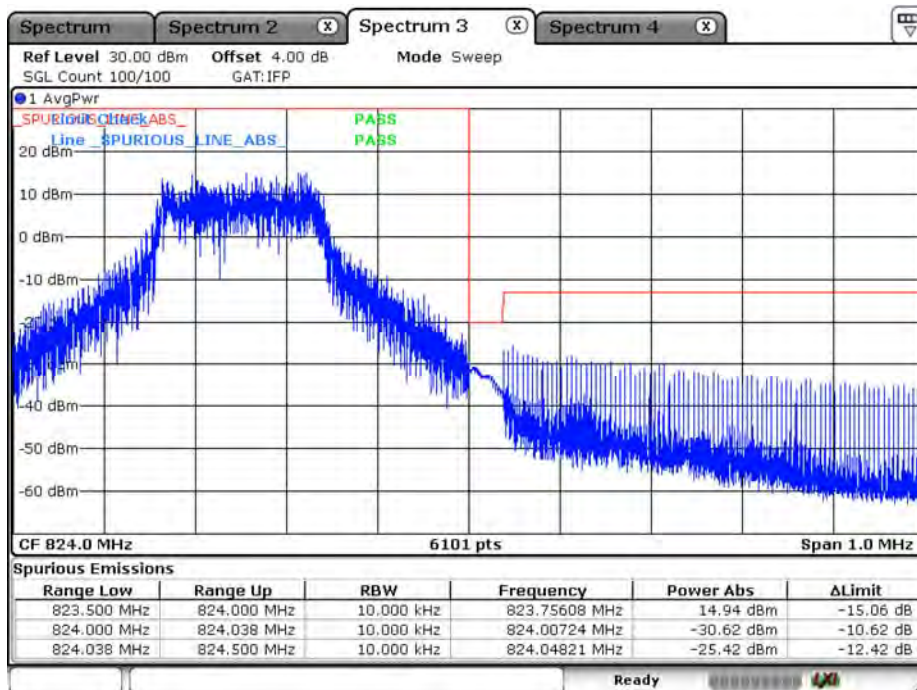
Date: 26.DEC.2019 13:42:44

B26_CH26783_1.4M_QPSK_6RB0 (Part 90)



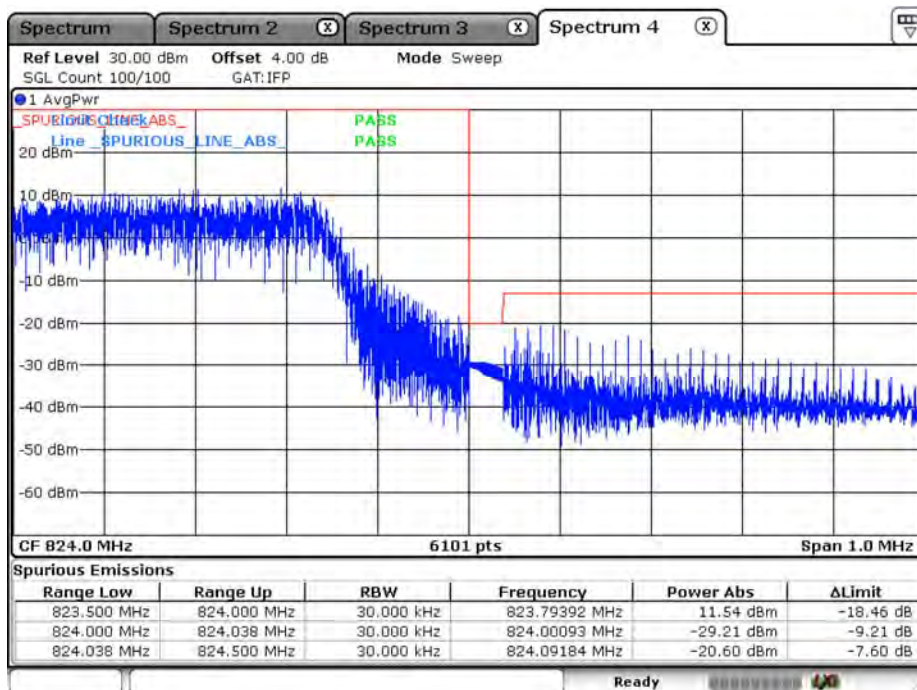
Date: 26.DEC.2019 13:32:39

B26_CH26783_1.4M_16-QAM_1RB5 (Part 90)



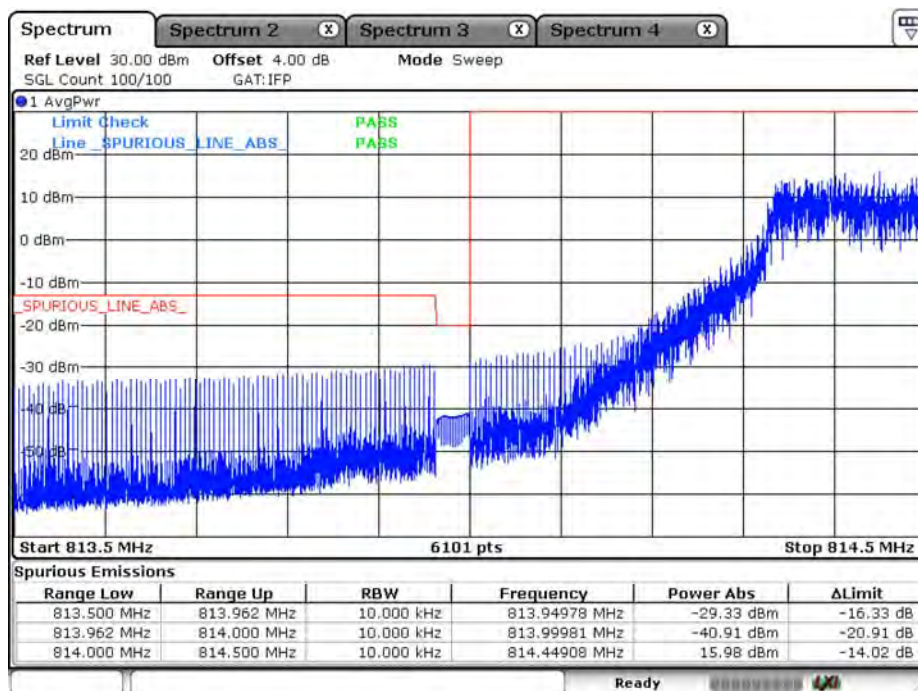
Date: 26.DEC.2019 13:49:02

B26_CH26783_1.4M_16-QAM_5RB1 (Part 90)



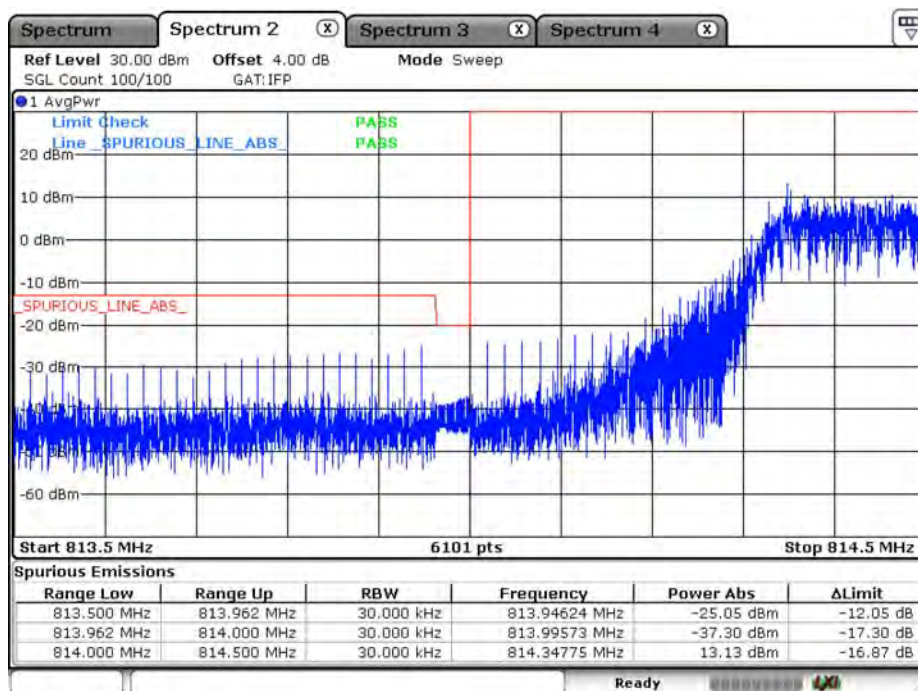
Date: 26.DEC.2019 13:17:51

B26_CH26705_3M_QPSK_1RB5 (Part 90)



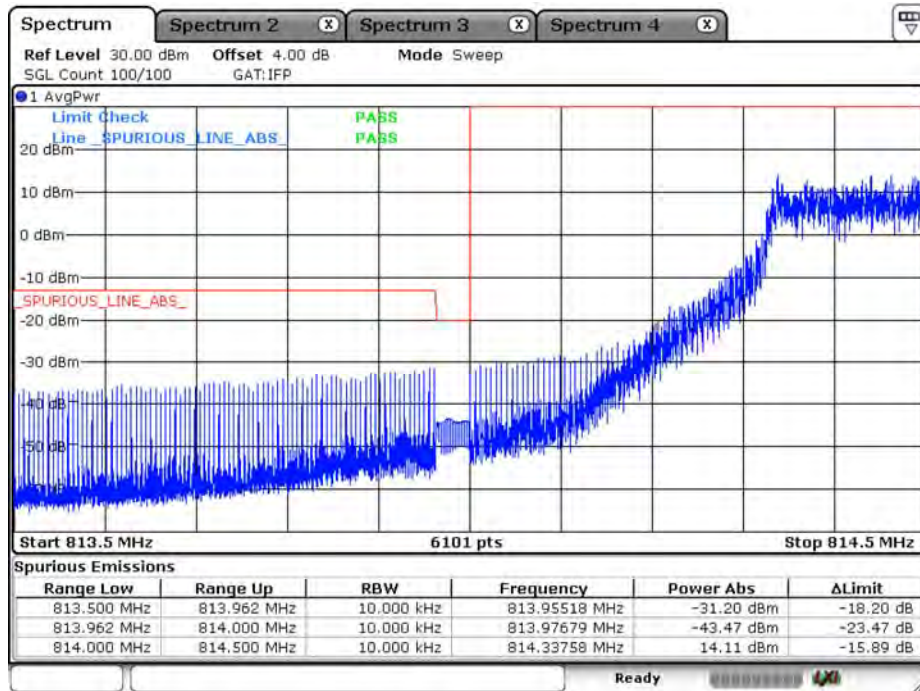
Date: 26.DEC.2019 14:30:26

B26_CH26705_3M_QPSK_6RB0 (Part 90)



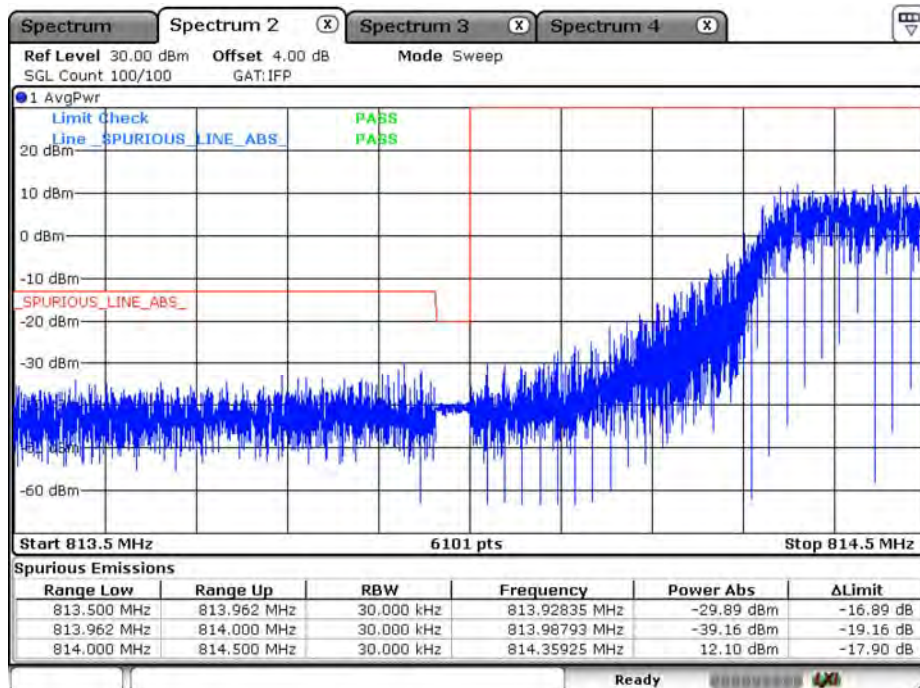
Date: 26.DEC.2019 14:25:27

B26_CH26705_3M_16-QAM_1RB0 (Part 90)



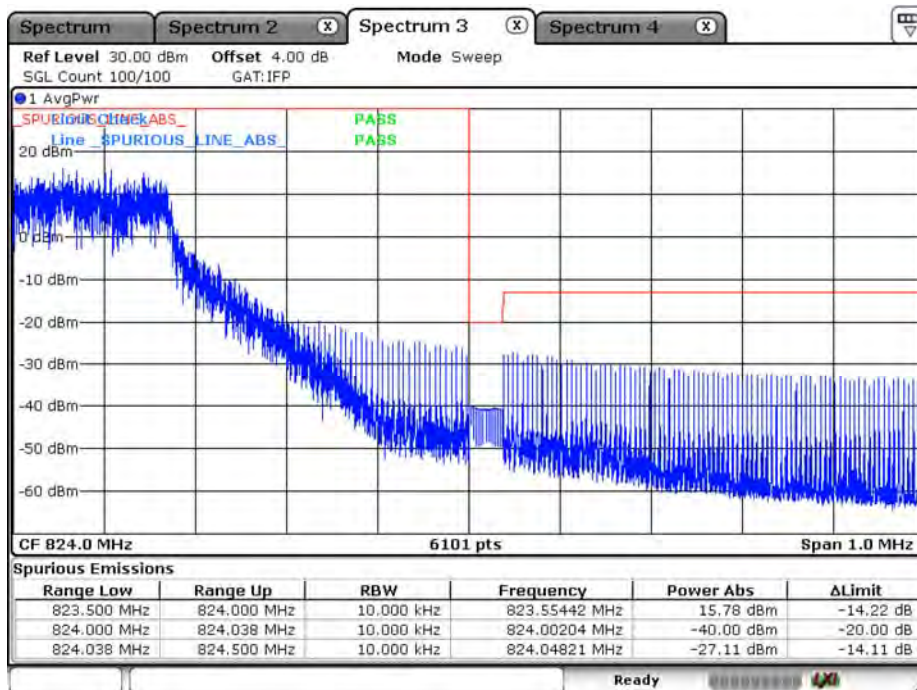
Date: 26.DEC.2019 14:35:21

B26_CH26705_3M_16-QAM_5RB0 (Part 90)



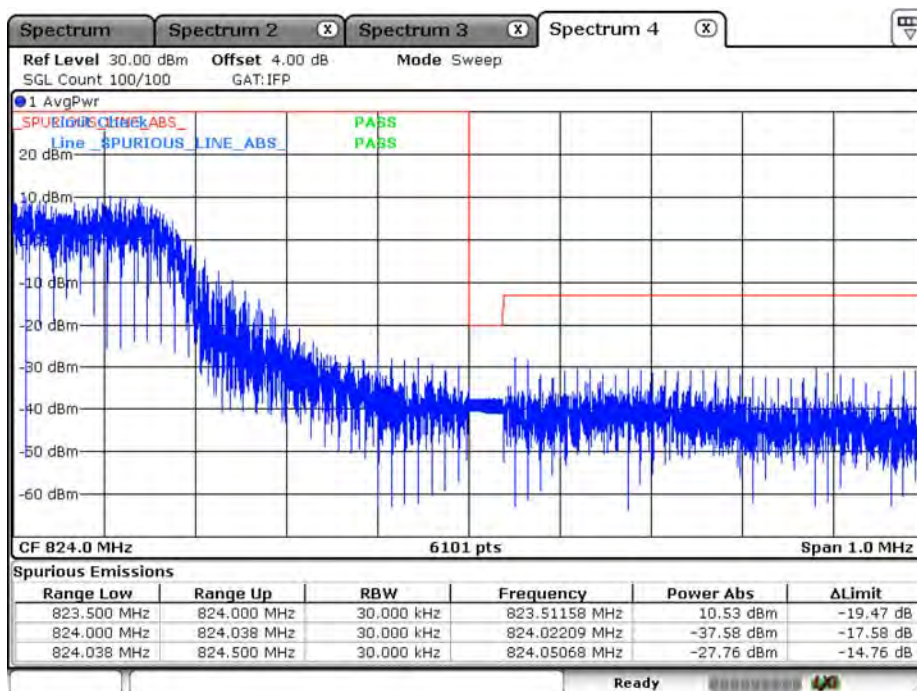
Date: 26.DEC.2019 14:22:31

B26_CH26775_3M_QPSK_1RB5 (Part 90)



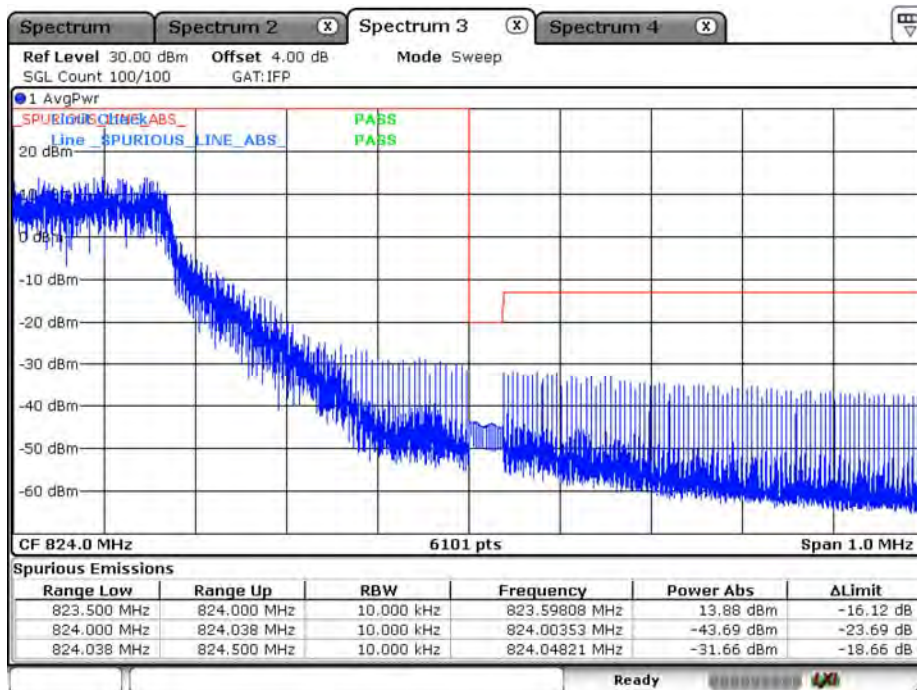
Date: 26.DEC.2019 14:51:44

B26_CH26775_3M_QPSK_6RB0 (Part 90)



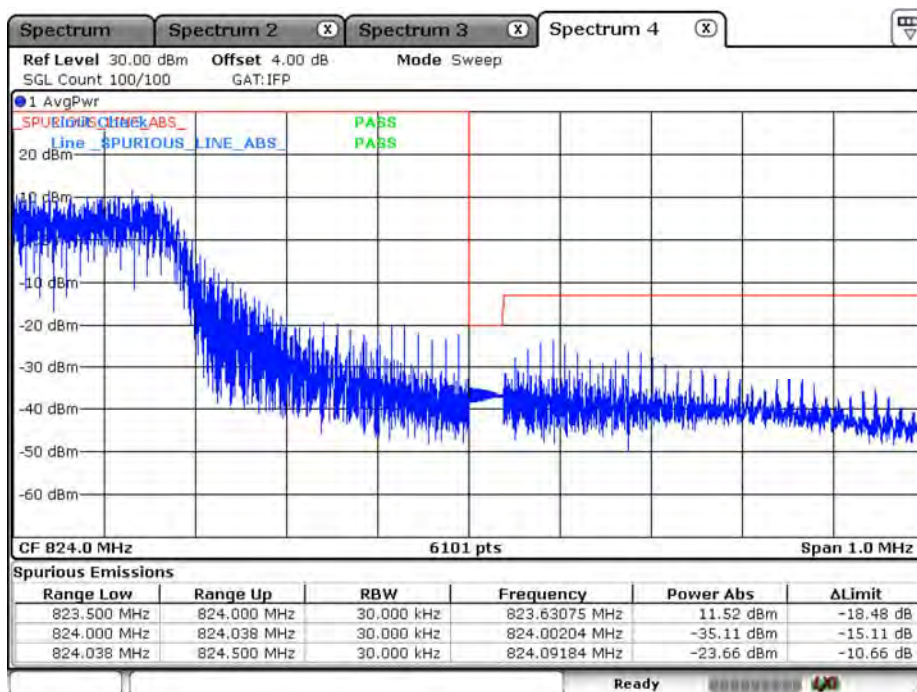
Date: 26.DEC.2019 14:59:44

B26_CH26775_3M_16-QAM_1RB5 (Part 90)



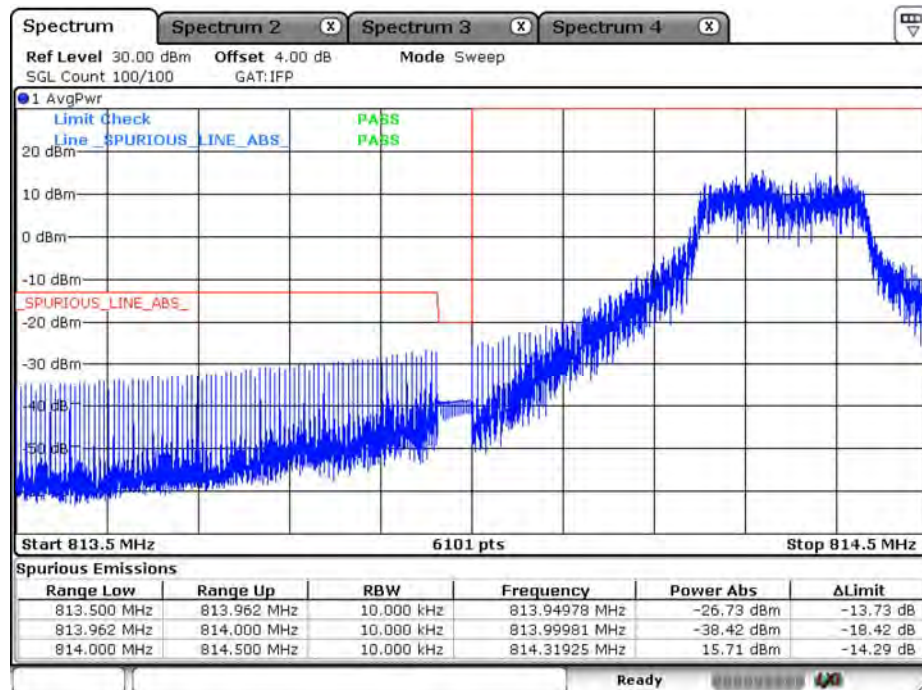
Date: 26.DEC.2019 14:46:01

B26_CH26775_3M_16-QAM_5RB1 (Part 90)



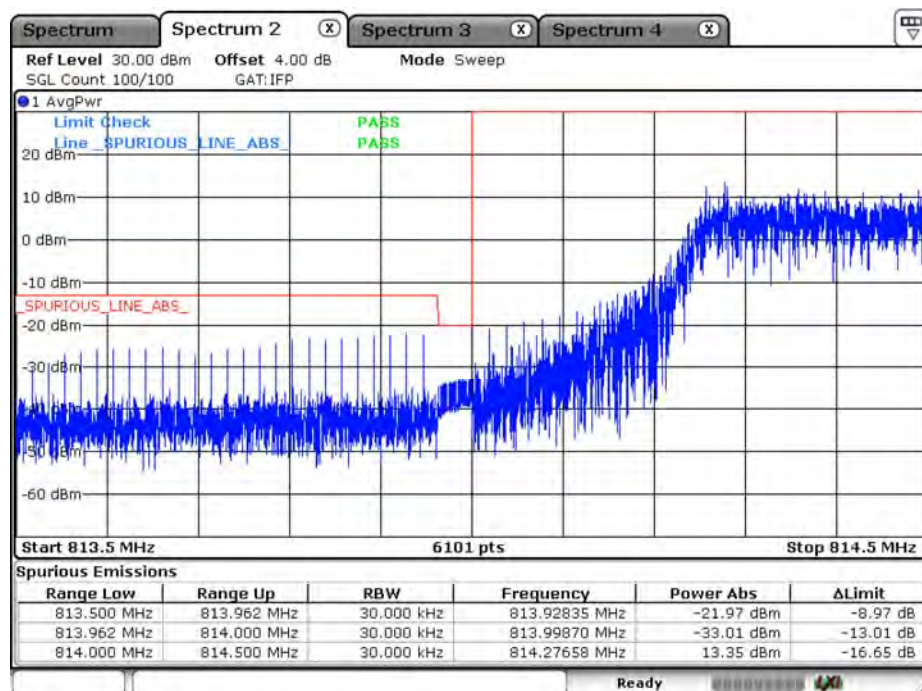
Date: 26.DEC.2019 15:01:59

B26_CH26715_5M_QPSK_1RB0 (Part 90)



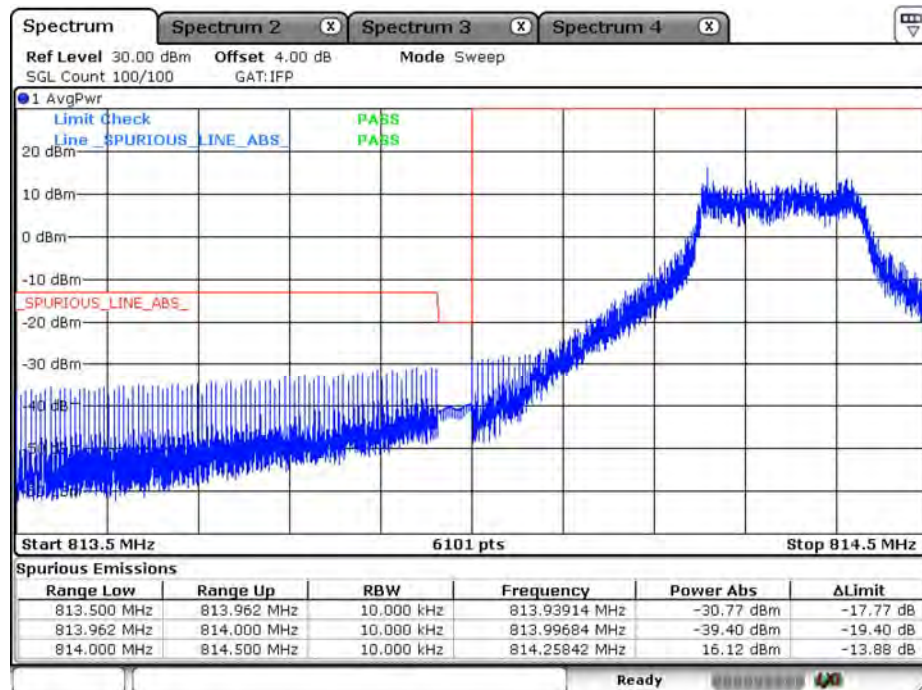
Date: 26.DEC.2019 15:21:53

B26_CH26715_5M_QPSK_6RB0 (Part 90)



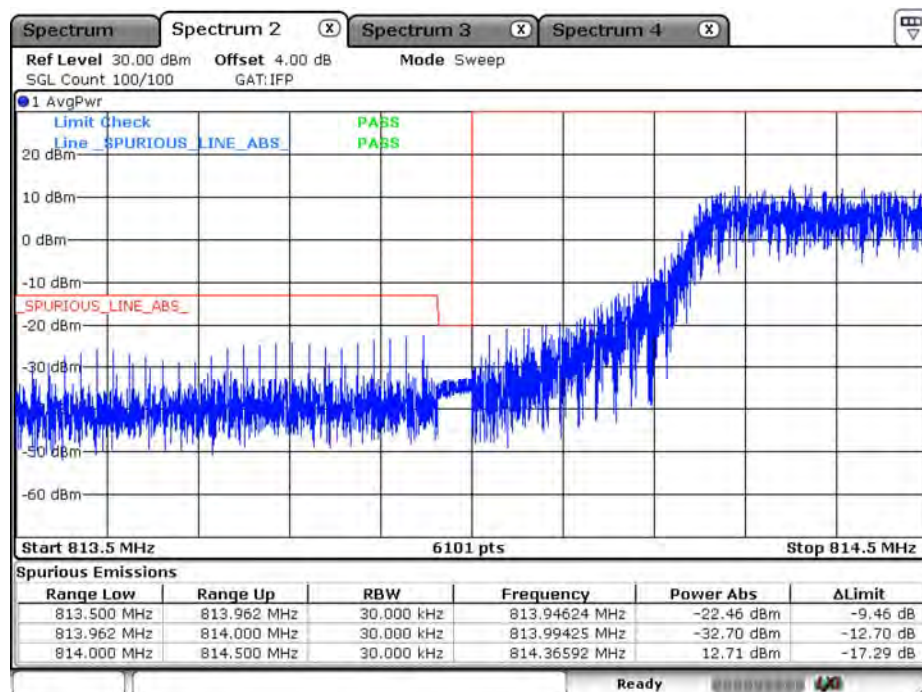
Date: 26.DEC.2019 15:04:44

B26_CH26715_5M_16-QAM_1RB0 (Part 90)



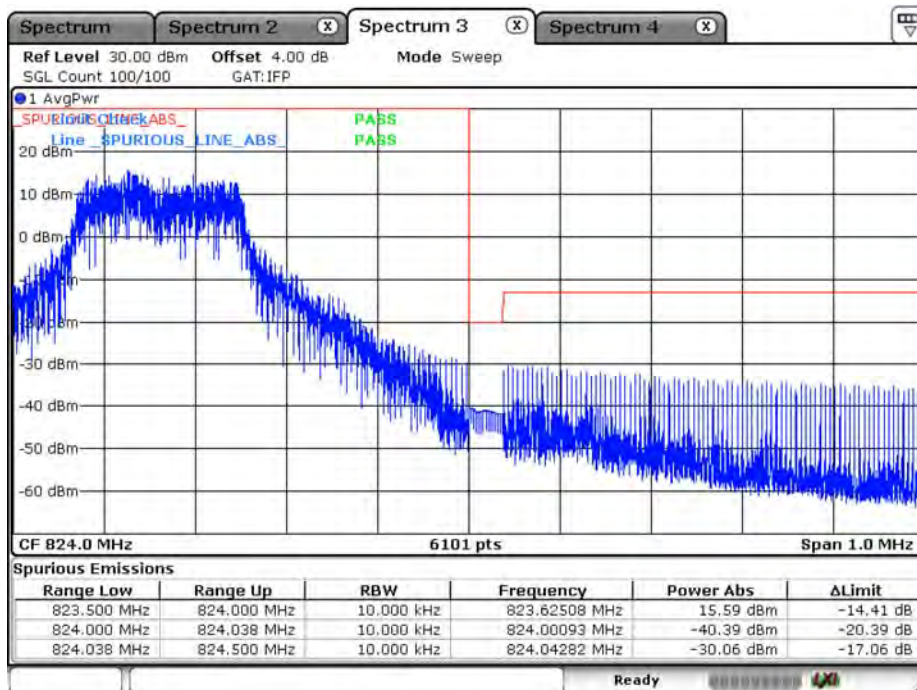
Date: 26.DEC.2019 15:16:03

B26_CH26715_5M_16-QAM_5RB0 (Part 90)



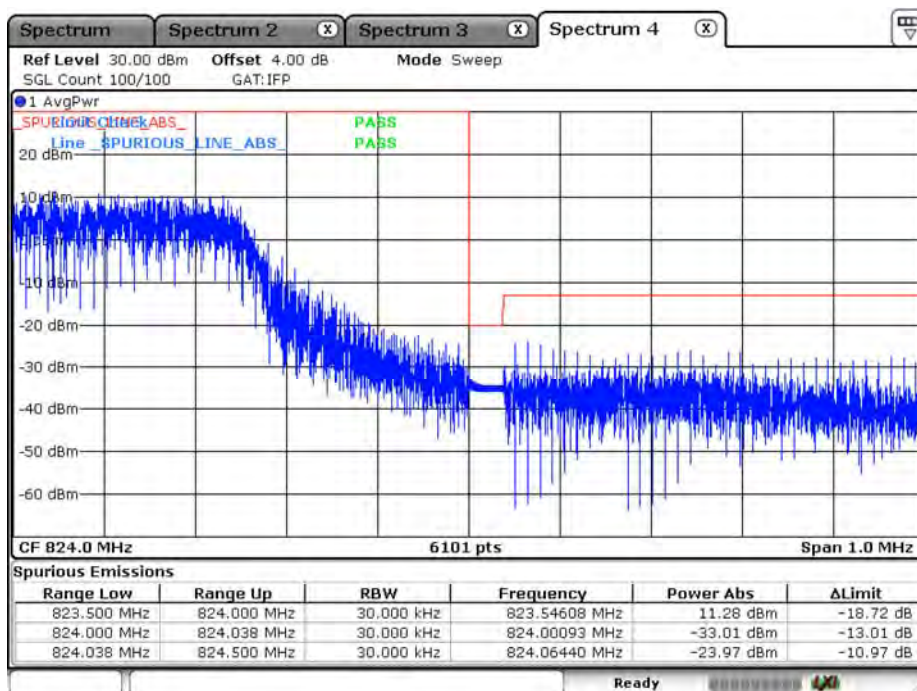
Date: 26.DEC.2019 15:07:17

B26_CH26765_5M_QPSK_1RB5 (Part 90)



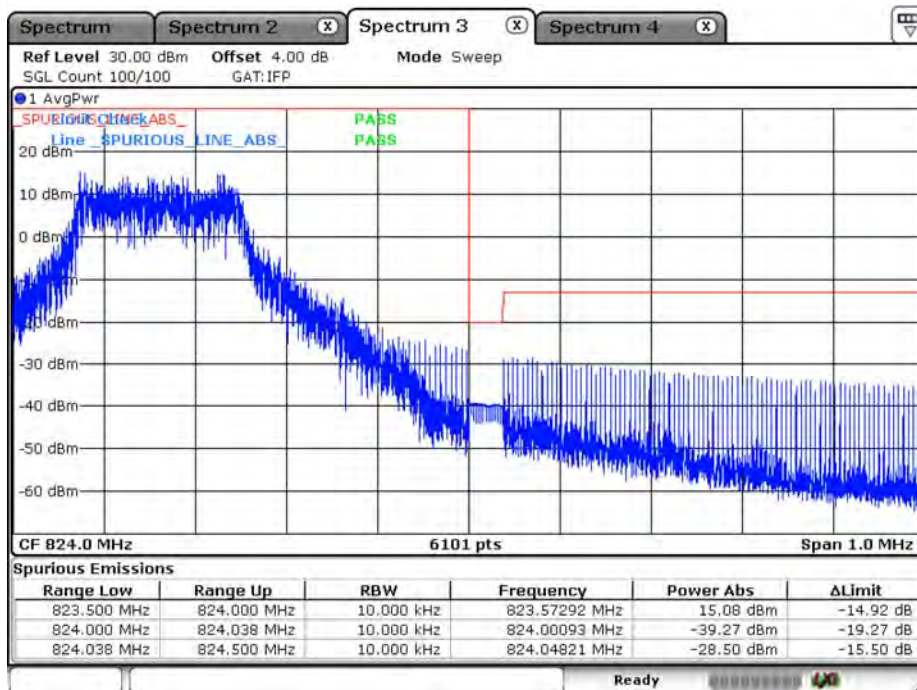
Date: 26.DEC.2019 15:26:50

B26_CH26765_5M_QPSK_6RB0 (Part 90)



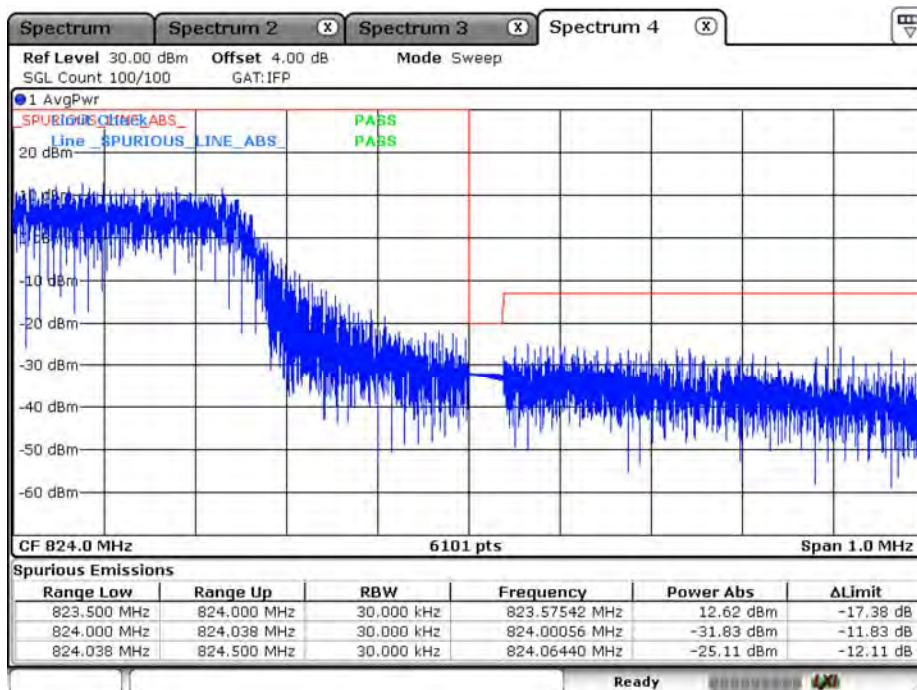
Date: 26.DEC.2019 15:38:36

B26_CH26765_5M_16-QAM_1RB5 (Part 90)



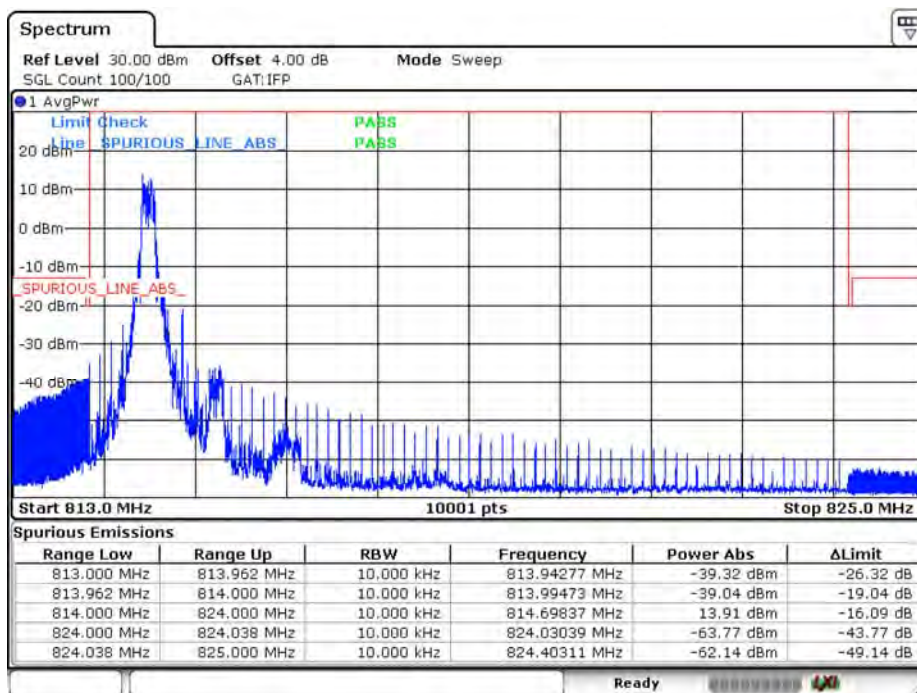
Date: 26.DEC.2019 15:32:07

B26_CH26765_5M_16-QAM_5RB1 (Part 90)



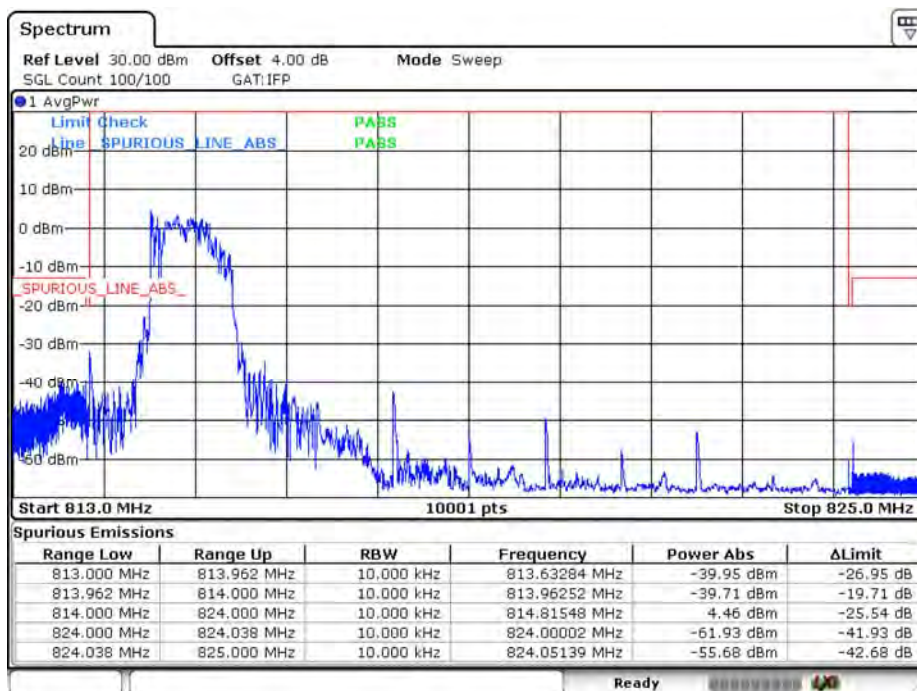
Date: 26.DEC.2019 15:36:22

B26_CH26740_10M_QPSK_1RB0_Low (Part 90)



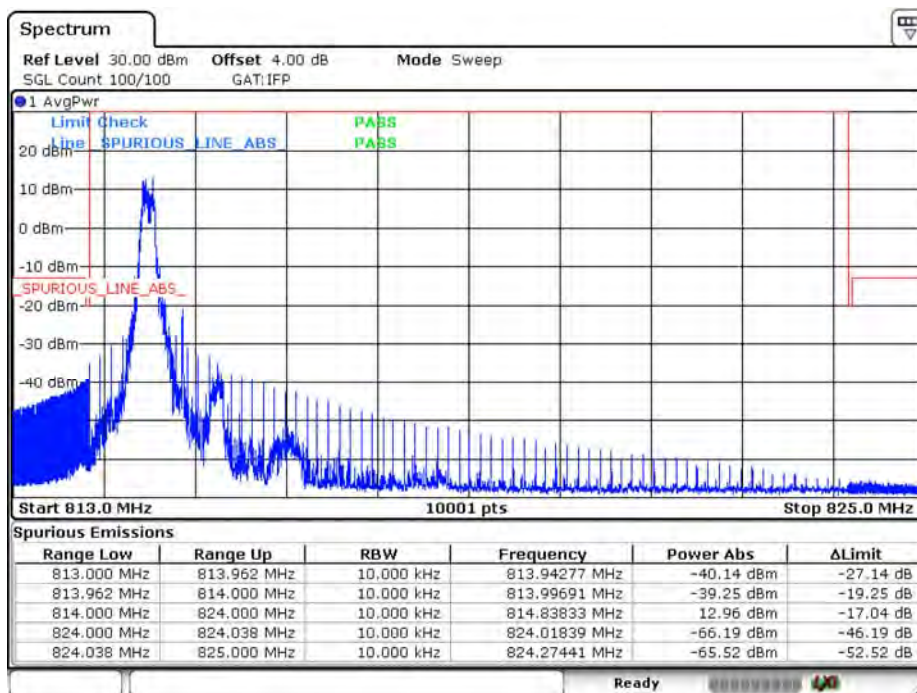
Date: 26.DEC.2019 17:12:55

B26_CH26740_10M_QPSK_6RB0_Low (Part 90)



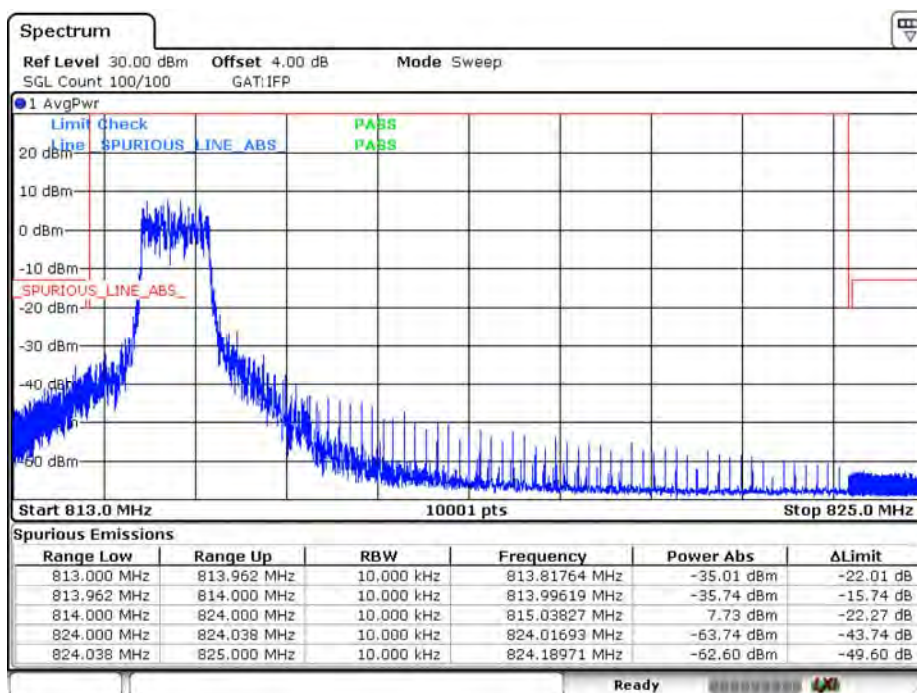
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B26_CH26740_10M_16-QAM_1RB0_Low (Part 90)



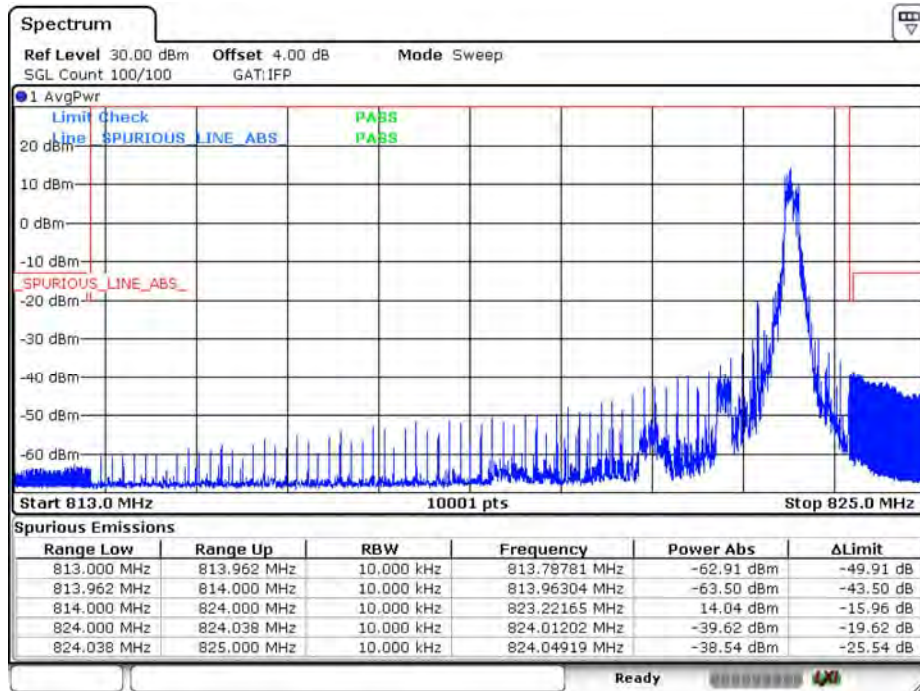
Date: 26.DEC.2019 17:06:23

B26_CH26740_10M_16-QAM_5RB0_Low (Part 90)



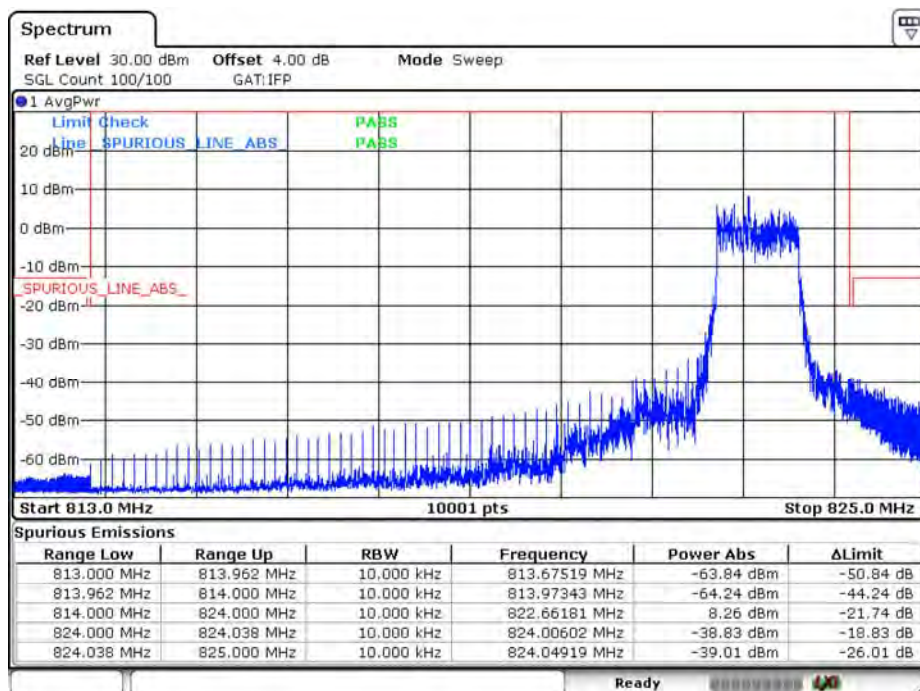
Date: 26.DEC.2019 17:00:09

B26_CH26740_10M_QPSK_1RB5_High (Part 90)



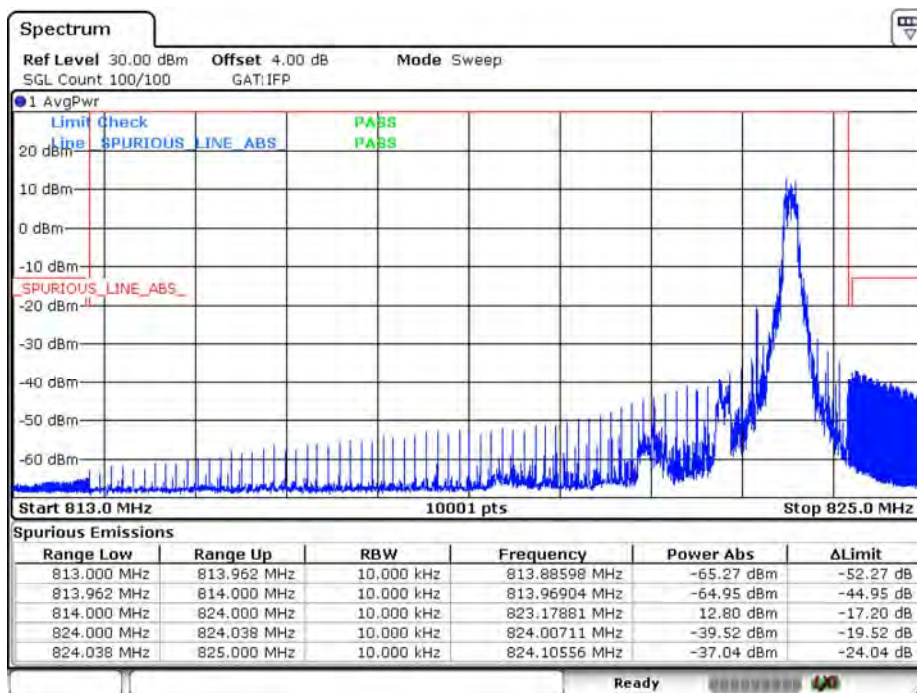
Date: 26.DEC.2019 17:18:44

B26_CH26740_10M_QPSK_6RB0_High (Part 90)



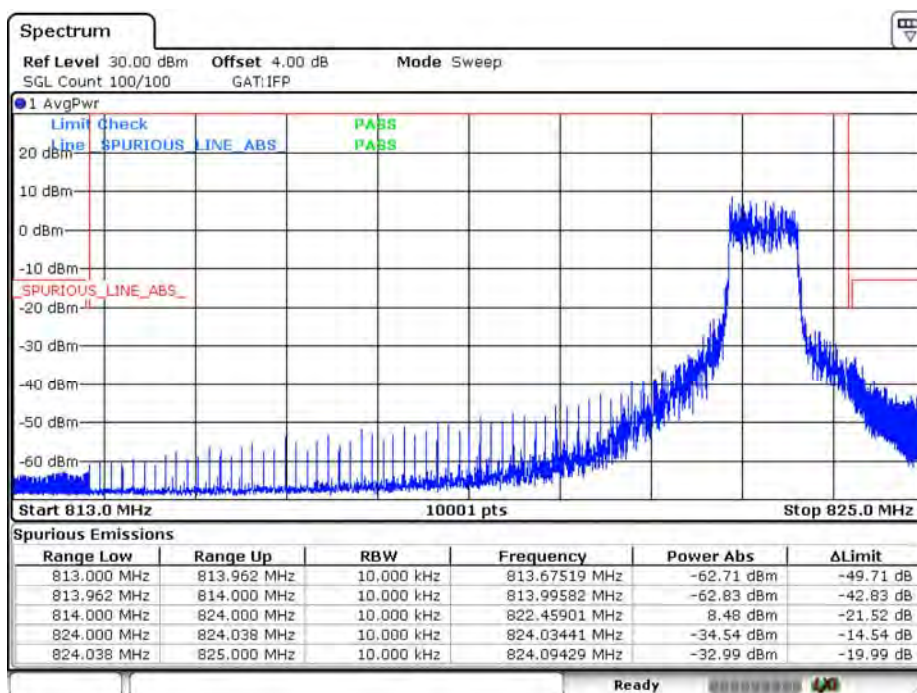
Date: 26.DEC.2019 17:43:04

B26_CH26740_10M_16-QAM_1RB5_High (Part 90)



Date: 26.DEC.2019 17:30:28

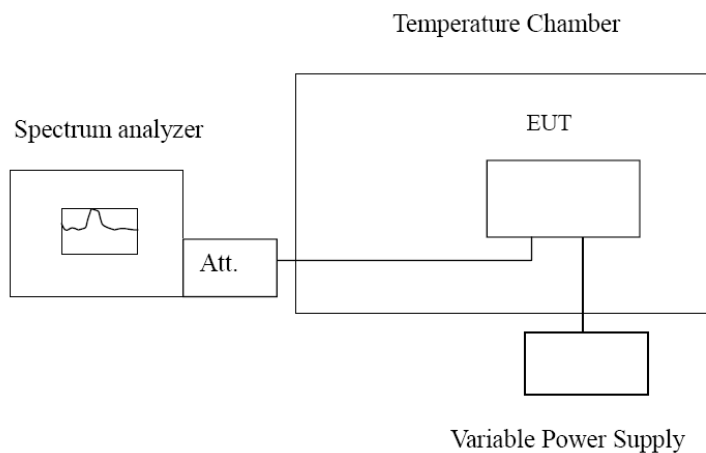
B26_CH26740_10M_16-QAM_5RB1_High (Part 90)



Date: 26.DEC.2019 17:37:15

8. Frequency Stability

8.1. Test Setup



8.2. Test Procedure

Frequency Stability Under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

8.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 9

ANSI C63.26: 2015 Sub-clause 5.6

8.4. Test Result

Product	M2M DATA MODULE		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2020/03/02	Test Site	SR12-H
Temperature (°C)	21.0°C	Humidity (%RH)	60%RH

LTE-Band 2 1860MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	-9.43	-0.0051
3.8	1.8	0.0010
2.85	-8.85	-0.0048

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	2.4	0.0013
-20	-2.4	-0.0013
-10	3	0.0016
0	-3.6	-0.0019
10	-4	-0.0022
20	4	0.0022
30	-2.9	-0.0016
40	-3.5	-0.0019
50	-3.5	-0.0019
60	-11.35	-0.0061

LTE-Band 2 1880MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	2.88	0.0015
3.8	-3.4	-0.0018
2.85	3.18	0.0017

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	-2.7	-0.0014
-20	2.4	0.0013
-10	-2.9	-0.0015
0	-2.7	-0.0014
10	-3.6	-0.0019
20	8	0.0043
30	1	0.0005
40	-3.4	-0.0018
50	1.4	0.0007
60	-10.17	-0.0054

LTE-Band 2 1900MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	-1.14	-0.0006
3.8	-3.7	-0.0019
2.85	-2.08	-0.0011

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	-1.3	-0.0007
-20	-2.8	-0.0015
-10	2.5	0.0013
0	-3.2	-0.0017
10	1.6	0.0008
20	-3.4	-0.0018
30	-2.8	-0.0015
40	-2.9	-0.0015
50	-3	-0.0016
60	-11.58	-0.0061

Product	M2M DATA MODULE		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2020/03/02	Test Site	SR12-H
Temperature (°C)	21.0°C	Humidity (%RH)	60%RH

LTE-Band 4 1720MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	-9.63	-0.0056
3.8	-1.5	-0.0009
2.85	-10.05	-0.0058

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	2.1	0.0012
-20	-1.8	-0.0010
-10	-2.1	-0.0012
0	1.3	0.0008
10	1.6	0.0009
20	-1.5	-0.0009
30	1.6	0.0009
40	-1.6	-0.0009
50	1.8	0.0010
60	-6.88	-0.0040

LTE-Band 4 1732.5MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.50	2.32	0.0013
3.80	1.7	0.0010
2.85	3.33	0.0019

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	-1.5	-0.0009
-20	-2.7	-0.0016
-10	1.6	0.0009
0	-2.4	-0.0014
10	-1.5	-0.0009
20	1.7	0.0010
30	-1.5	-0.0009
40	1.6	0.0009
50	-1.4	-0.0008
60	-5.97	-0.0034

LTE-Band 4 1745MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	-2.44	-0.0014
3.8	1.28	0.0007
2.85	-1.85	-0.0011

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	0.34	0.0002
-20	1.41	0.0008
-10	0.7	0.0004
0	0.04	0.0000
10	0.33	0.0002
20	0.27	0.0002
30	0.51	0.0003
40	0.07	0.0000
50	0.55	0.0003
60	-6.1	-0.0035

Product	M2M DATA MODULE		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 3: LTE Band 12		
Date of Test	2020/03/02	Test Site	SR12-H
Temperature (°C)	21.0°C	Humidity (%RH)	60%RH

LTE-Band 12 704MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	-2.78	-0.0039
3.8	-2.6	-0.0037
2.85	-3.02	-0.0043

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	-1.1	-0.0016
-20	1.7	0.0024
-10	2.5	0.0036
0	-2.8	-0.0040
10	-2.3	-0.0033
20	2.1	0.0030
30	-3	-0.0043
40	5	0.0071
50	-3.9	-0.0055
60	-5.88	-0.0084

LTE-Band 12 707.5MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	-7.94	-0.0112
3.8	-3.1	-0.0044
2.85	-7.16	-0.0101

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	2.2	0.0031
-20	-1	-0.0014
-10	1.5	0.0021
0	1.7	0.0024
10	-3	-0.0042
20	2.3	0.0033
30	1	0.0014
40	-2	-0.0028
50	2.2	0.0031
60	-6.38	-0.0090

LTE-Band 12 711MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	-4.03	-0.0057
3.8	2	0.0028
2.85	-4.24	-0.0060

Temperature

Max

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	-2.6	-0.0037
-20	-2.2	-0.0031
-10	-1	-0.0014
0	-2.7	-0.0038
10	2	0.0028
20	2.3	0.0032
30	2.4	0.0034
40	-4	-0.0056
50	2	0.0028
60	-6.74	-0.0095

Product	M2M DATA MODULE		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 4: LTE Band 13		
Date of Test	2020/03/02	Test Site	SR12-H
Temperature (°C)	21.0°C	Humidity (%RH)	60%RH

LTE-Band 13 782MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	-10.2	-0.0130
3.8	1.8	0.0023
2.85	-9.87	-0.0126

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	2.4	0.0031
-20	-2.4	-0.0031
-10	3	0.0038
0	-3.6	-0.0046
10	-4	-0.0051
20	4	0.0051
30	-2.9	-0.0037
40	-3.5	-0.0045
50	-3.5	-0.0045
60	-14.89	-0.0190

Product	M2M DATA MODULE		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 5: LTE Band 25		
Date of Test	2020/03/02	Test Site	SR12-H
Temperature (°C)	21.0°C	Humidity (%RH)	60%RH

LTE-Band 25 1860MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	-8.98	-0.0048
3.8	-3.2	-0.0017
2.85	-8.64	-0.0046

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	-2.1	-0.0011
-20	-2	-0.0011
-10	5	0.0027
0	-2.3	-0.0012
10	-2	-0.0011
20	1.6	0.0009
30	-3.3	-0.0018
40	-2	-0.0011
50	3	0.0016
60	-16.22	-0.0087

LTE-Band 25 1882.5MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	-8.61	-0.0046
3.8	1	0.0005
2.85	-10.19	-0.0054

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	9	0.0048
-20	-2.9	-0.0015
-10	4	0.0021
0	-2.3	-0.0012
10	-2.5	-0.0013
20	-2.4	-0.0013
30	-3.9	-0.0021
40	8	0.0042
50	1	0.0005
60	-17.64	-0.0094

LTE-Band 25 1905MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	-4.21	-0.0022
3.8	-7	-0.0037
2.85	-6.54	-0.0034

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	1.5	0.0008
-20	2.2	0.0012
-10	-1.8	-0.0009
0	4	0.0021
10	-3.7	-0.0019
20	-2.1	-0.0011
30	-1.3	-0.0007
40	-1.8	-0.0009
50	-6	-0.0031
60	-17.33	-0.0091

Product	M2M DATA MODULE		
Test Item	Frequency Stability Under Temperature & Voltage Variations (Part 22)		
Test Mode	Mode 6: LTE Band 26		
Date of Test	2020/03/02	Test Site	SR12-H
Temperature (°C)	21.0°C	Humidity (%RH)	60%RH

LTE-Band 26 (Part 22) 831.5MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	2.29	0.0028
3.8	2.4	0.0029
2.85	3.81	0.0046

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	-1	-0.0012
-20	1	0.0012
-10	-3.6	-0.0043
0	2.1	0.0025
10	2	0.0024
20	-2.2	-0.0026
30	4	0.0048
40	-2.6	-0.0031
50	-3.5	-0.0042
60	-10.33	-0.0124

LTE-Band 26 (Part 22) 836.5MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	-5.42	-0.0065
3.8	-4.2	-0.0050
2.85	-5.94	-0.0071

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	1.6	0.0019
-20	1.1	0.0013
-10	7	0.0084
0	-1	-0.0012
10	4	0.0048
20	-1	-0.0012
30	8	0.0096
40	8	0.0096
50	7	0.0084
60	-11.31	-0.0135

LTE-Band 26 (Part 22) 841.5MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	-3.76	-0.0045
3.8	2.1	0.0025
2.85	-4.84	-0.0058

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	-3	-0.0036
-20	-5	-0.0059
-10	-2.1	-0.0025
0	-2.3	-0.0027
10	-4	-0.0048
20	-1.5	-0.0018
30	-2	-0.0024
40	9	0.0107
50	2.2	0.0026
60	-11.27	-0.0134

Product	M2M DATA MODULE		
Test Item	Frequency Stability Under Temperature & Voltage Variations (Part 90)		
Test Mode	Mode 6: LTE Band 26		
Date of Test	2020/03/02	Test Site	SR12-H
Temperature (°C)	21.0°C	Humidity (%RH)	60%RH

LTE-Band 26 (Part 90) 819MHz

Voltage

Voltage (VAC)	Frequency Error(Hz)	Frequency Error(ppm)
4.5	-10.32	-0.0126
3.8	-3.4	-0.0042
2.85	-10.61	-0.0130

Temperature

Temperature	Frequency Error(Hz)	Frequency Error (ppm)
-30	-1.3	-0.0016
-20	-2.8	-0.0034
-10	2.5	0.0031
0	-3.2	-0.0039
10	1.6	0.0020
20	-3.4	-0.0042
30	-2.8	-0.0034
40	-2.9	-0.0035
50	-3	-0.0037
60	-13.39	-0.0163