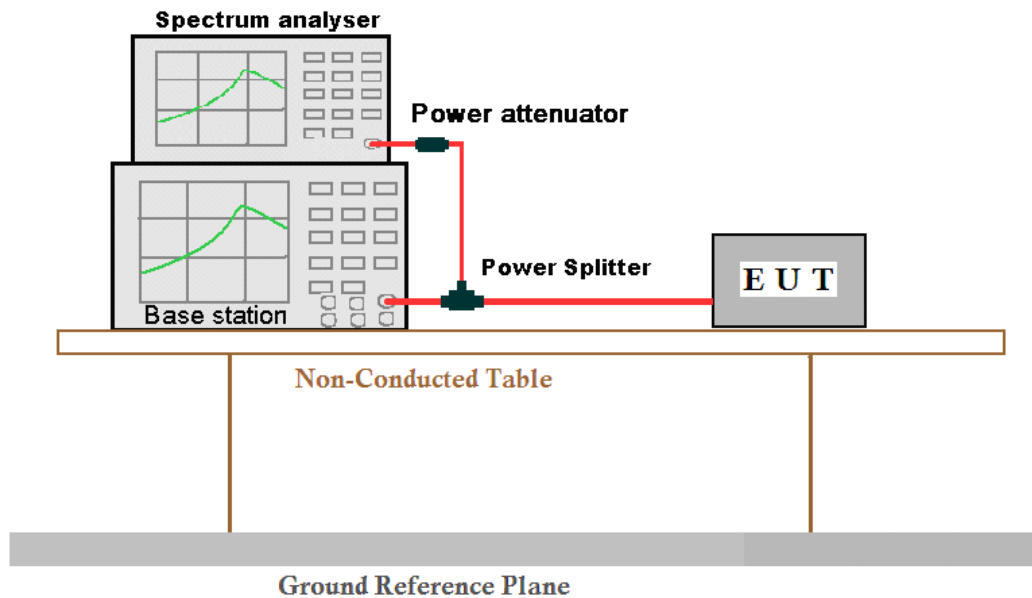


mental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

Test SET-UP



8.2. Measurement Procedure

Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW \geq 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

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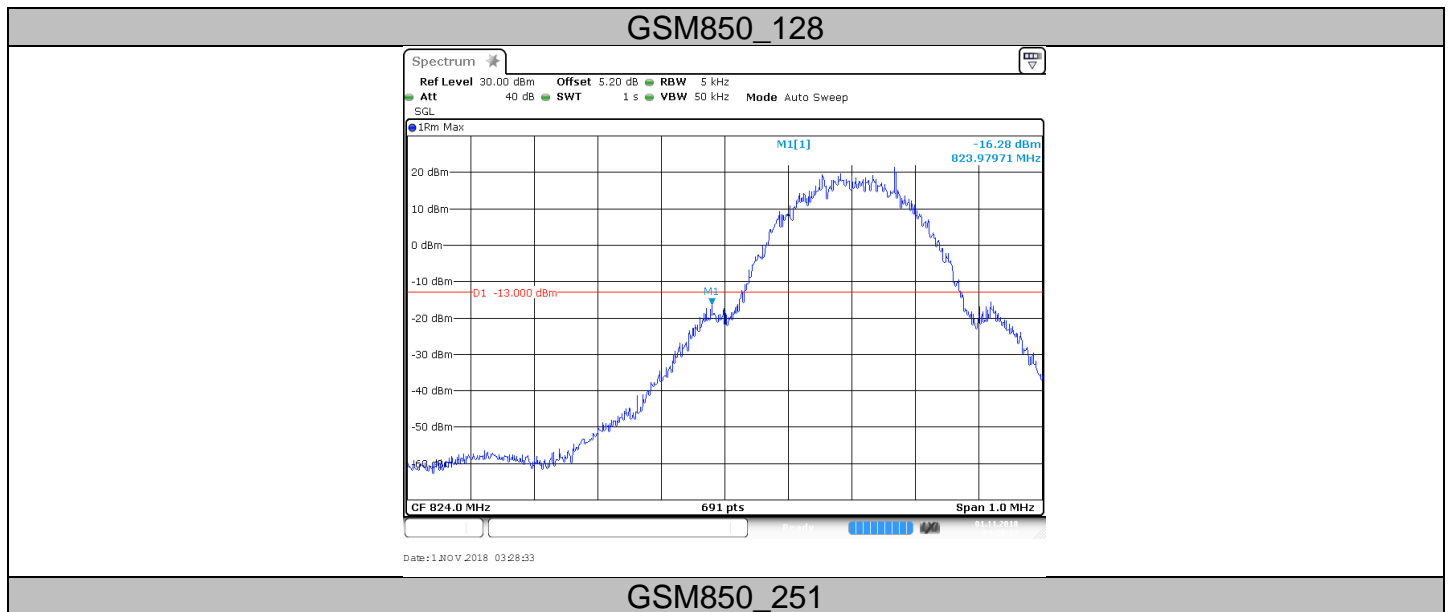
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8.3. Measurement Equipment Used

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Dual Output Mobile Communication DC Source	Agilent Technologies Inc	66311B	W009-09	2018/9/15	2019/9/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2018/3/13	2019/3/12
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/12	2019/7/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/9/2	2019/9/2
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2018/9/10	2019/9/10
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2017/12/4	2018/12/4
Wideband Radio Communication Tester	Anristu	MT8821C	6201462742	2018/5/2	2019/5/1
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	W005-02	2018/3/13	2019/3/12

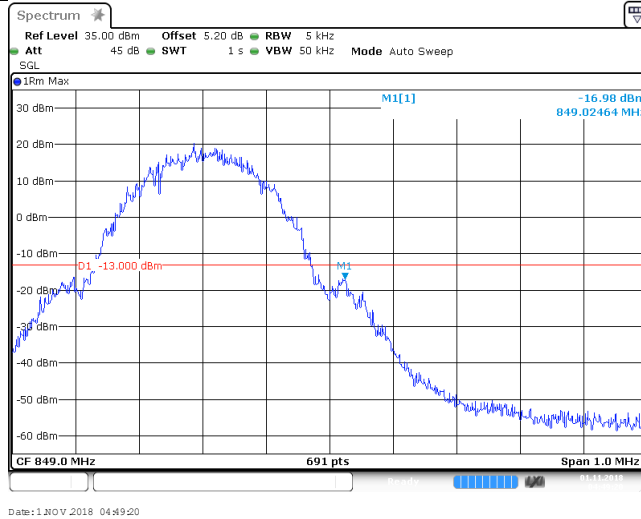
8.4. Measurement Result: GSM

8.4.1. Plots

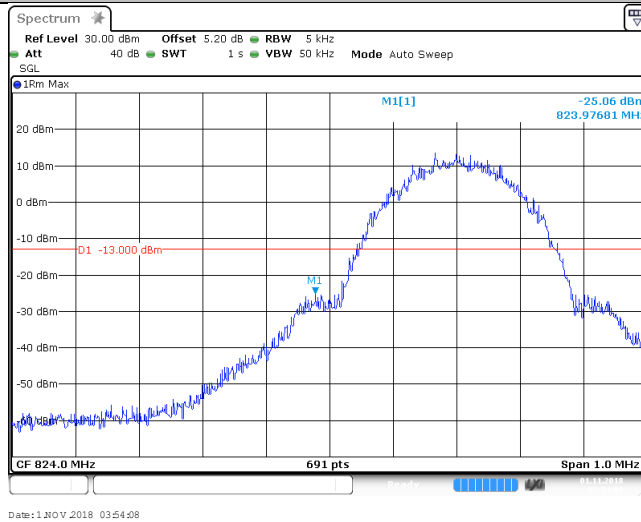


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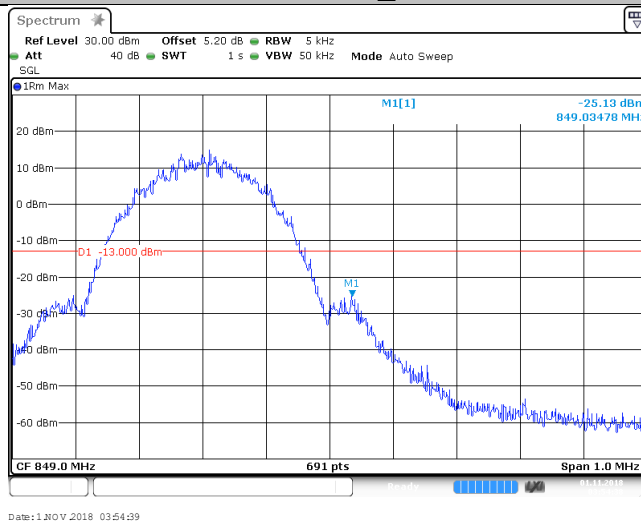
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EGPRS850_128



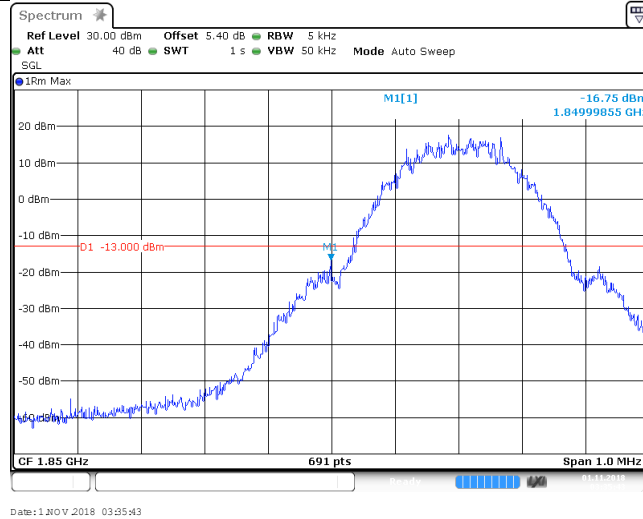
EGPRS850_251



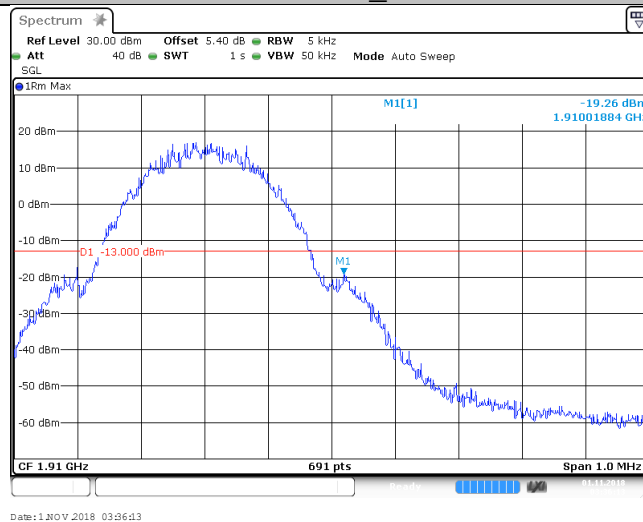
GSM1900_512

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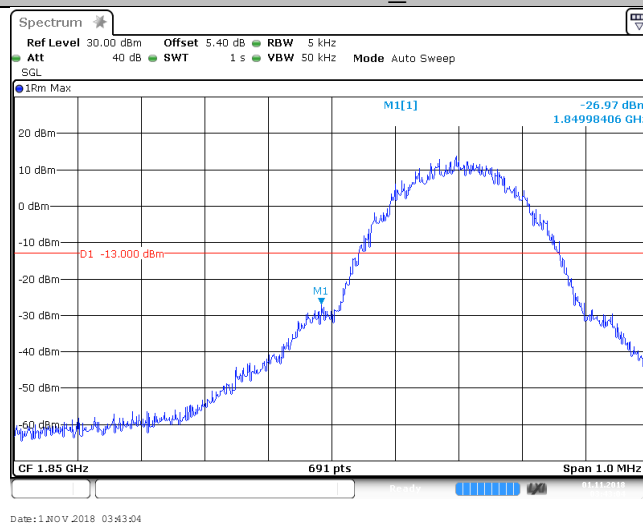
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GSM1900_810



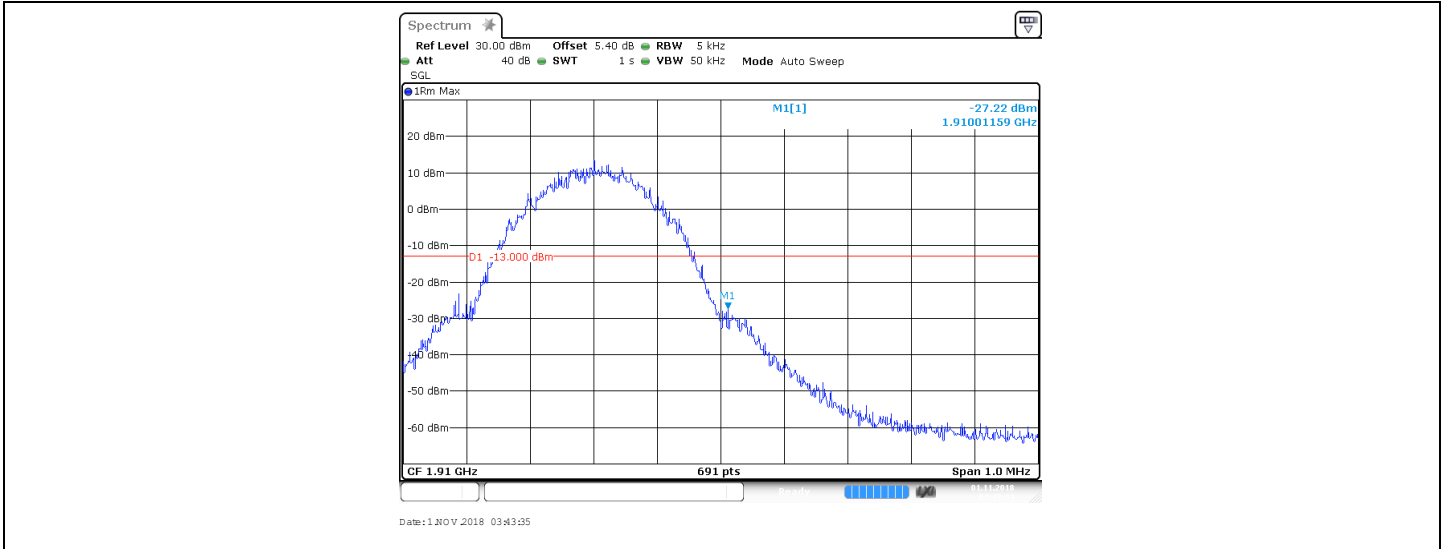
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EGPRS1900_810

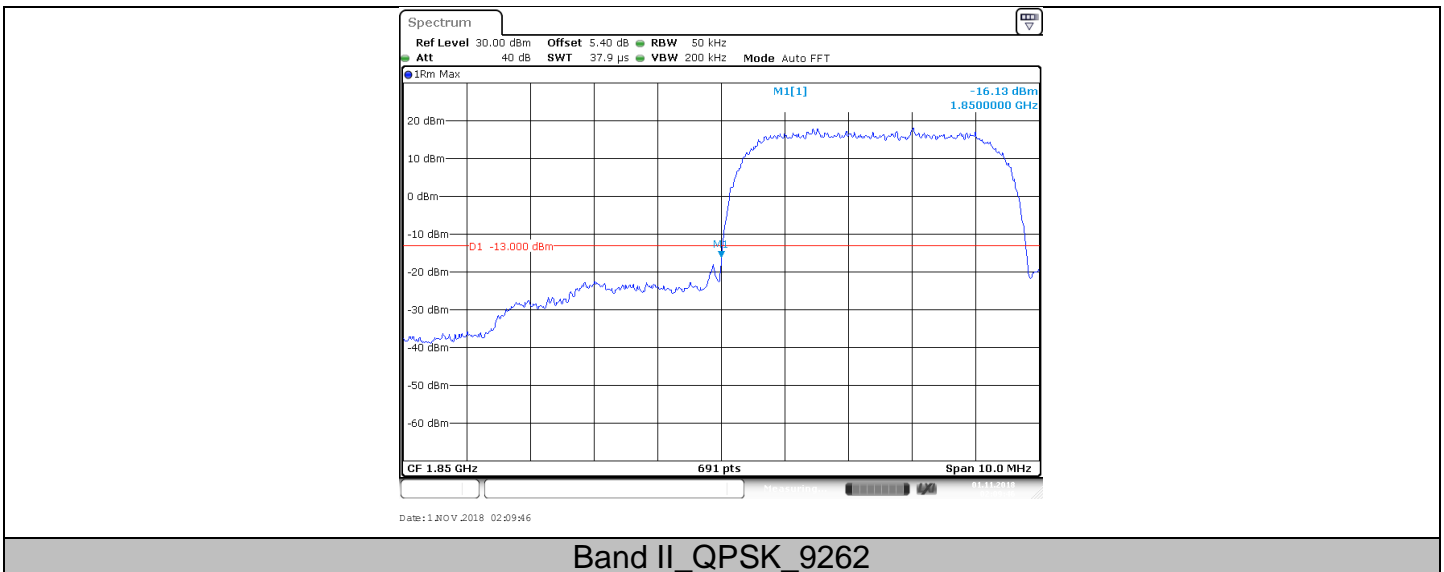
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8.5. Measurement Result: WCDMA

8.5.1. Plots



Band II_QPSK_9262

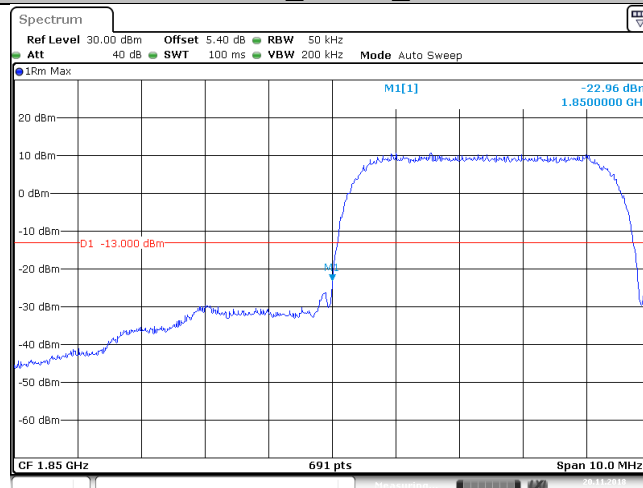
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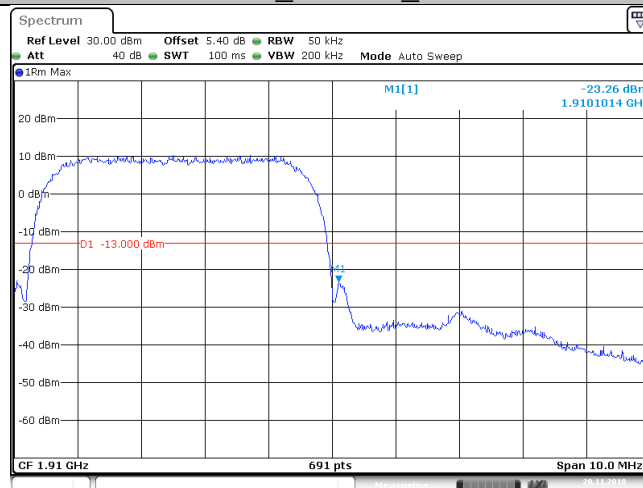
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Band II_QPSK_9538



Date: 20 NOV 2018 07:16:36

Band II_16QAM_9262

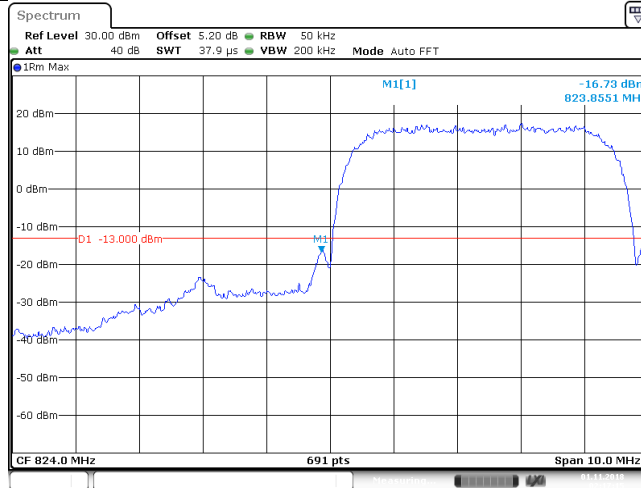


Date: 20 NOV 2018 07:16:51

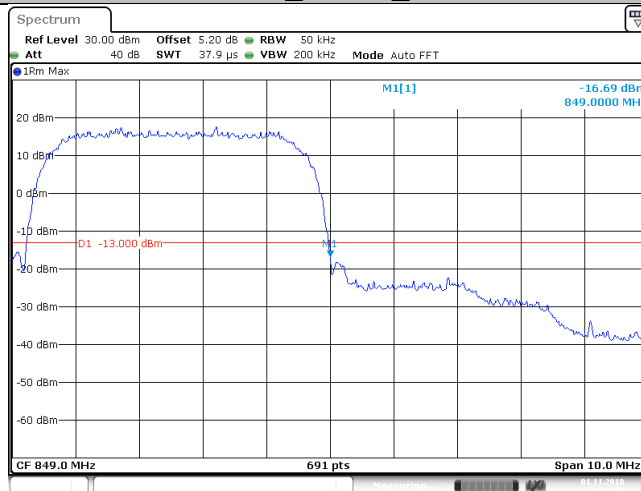
Band II_16QAM_9538

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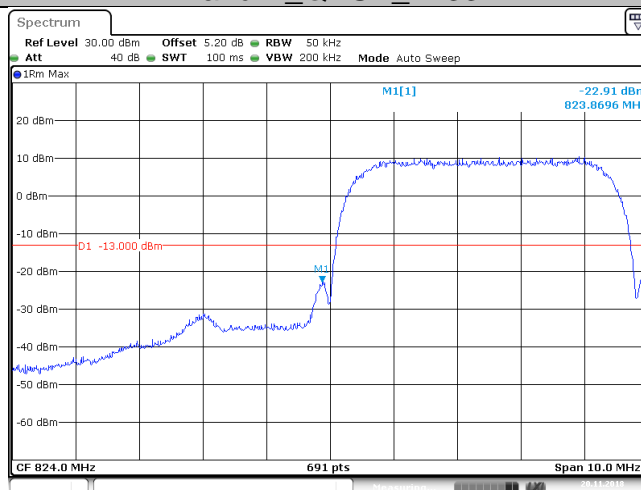
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Band V_QPSK_4132



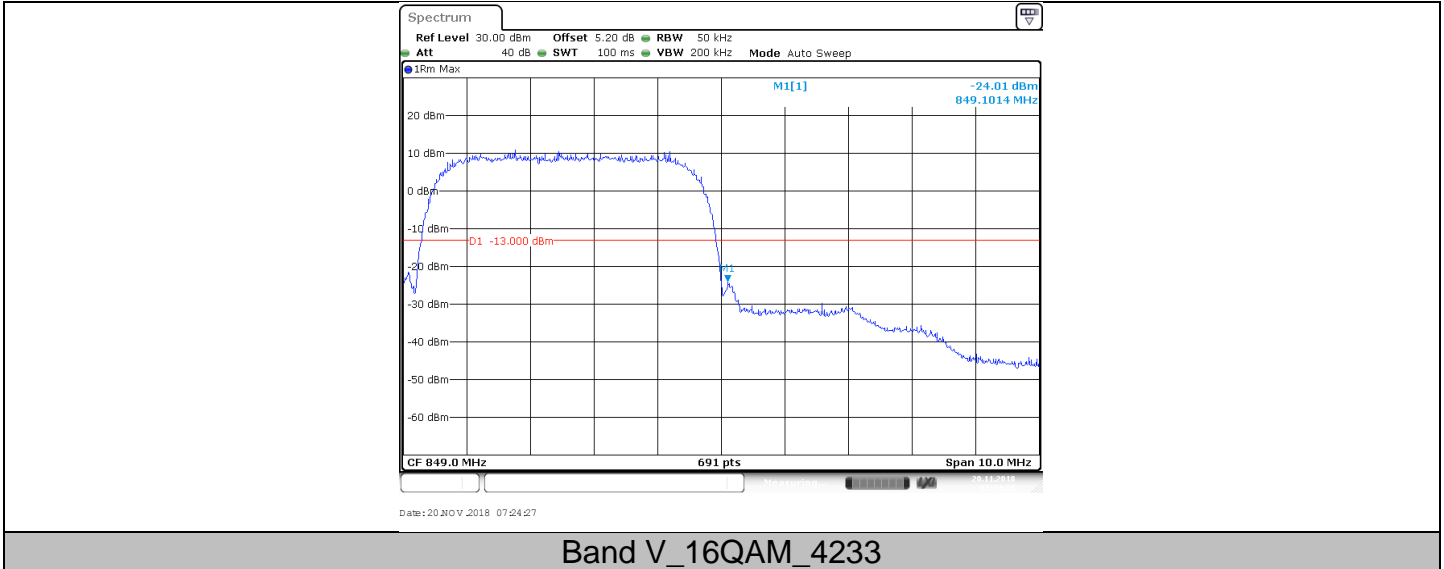
Band V_QPSK_4233



Band V_16QAM_4132

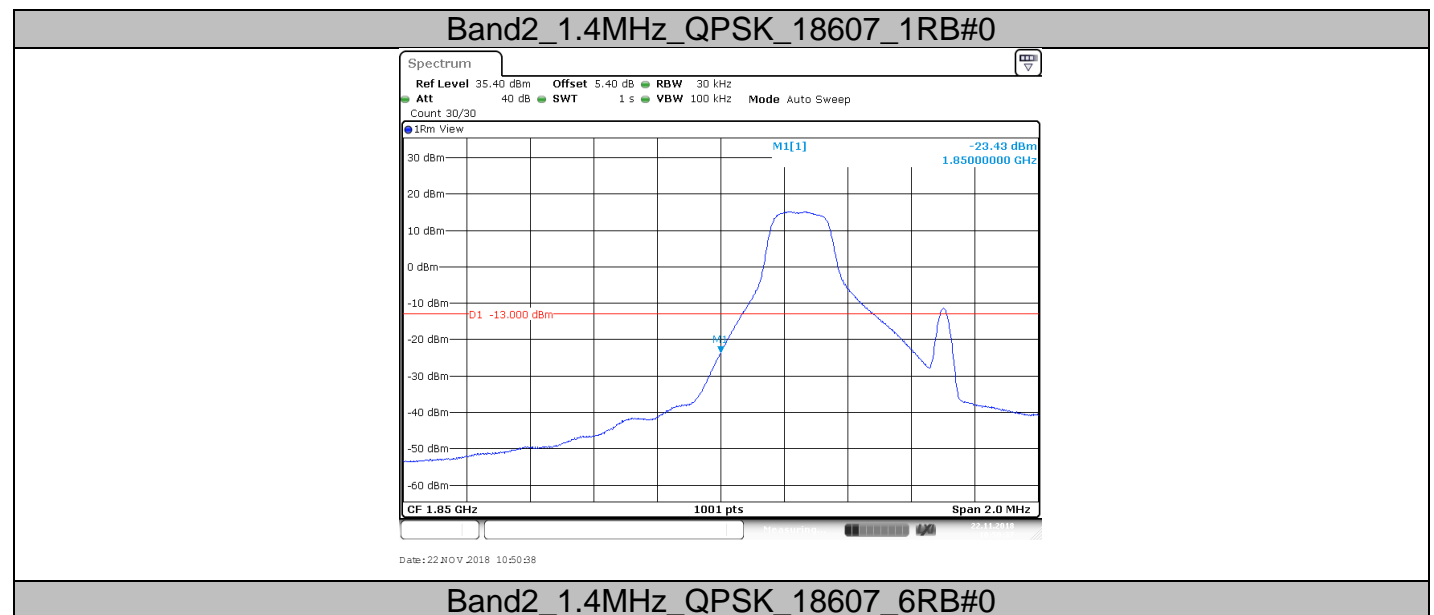
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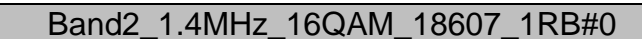
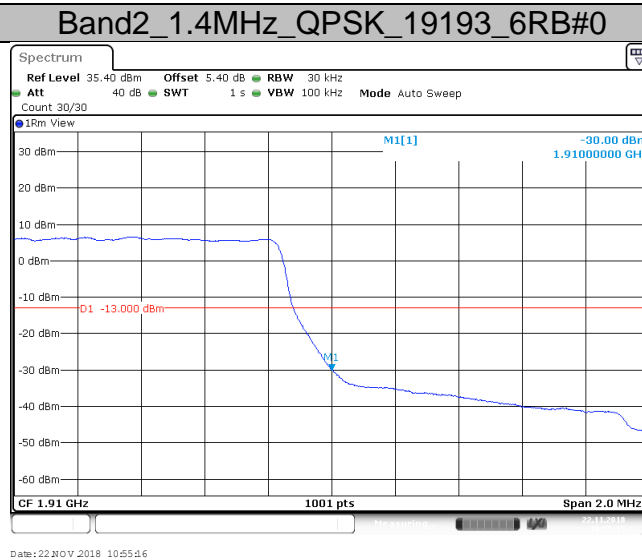
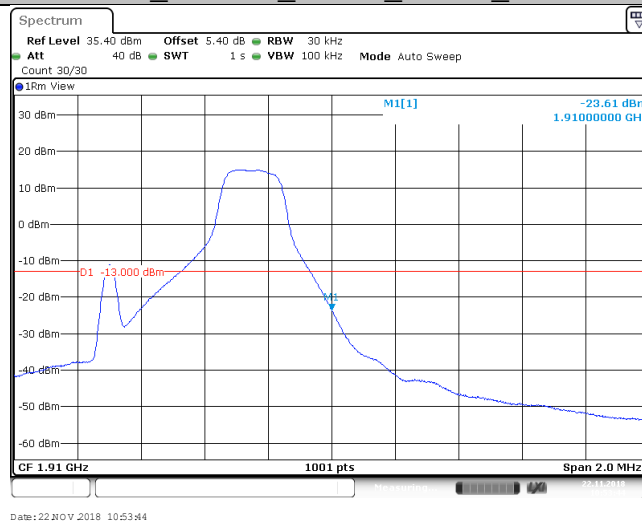
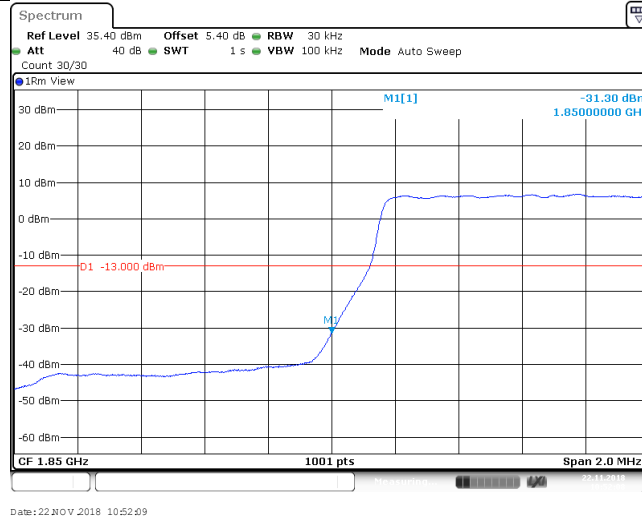
8.6. Measurement Result: LTE Band 2

8.6.1. Plots



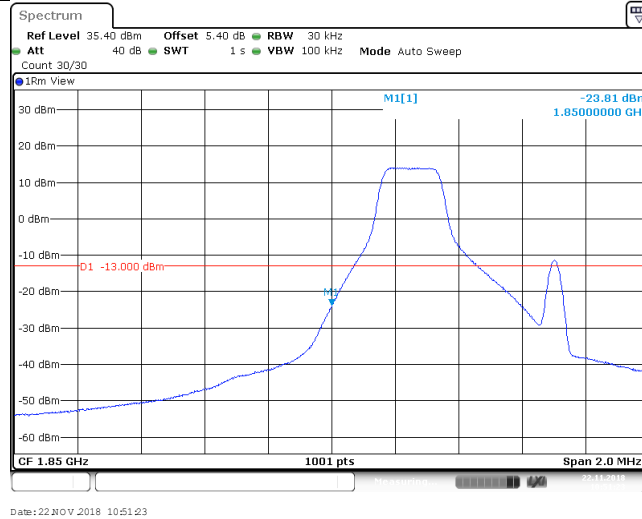
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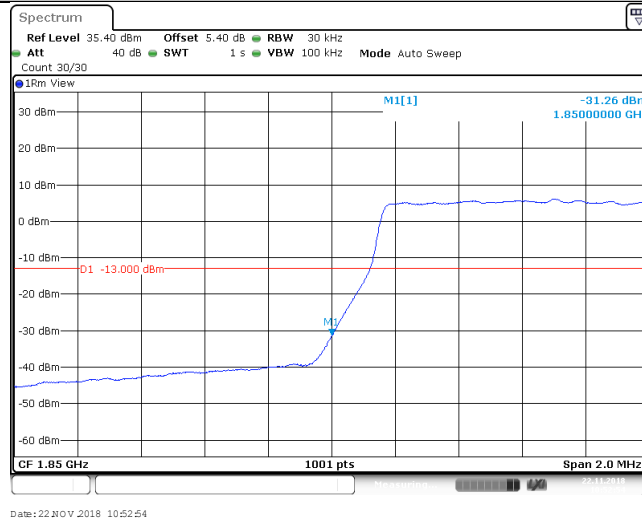


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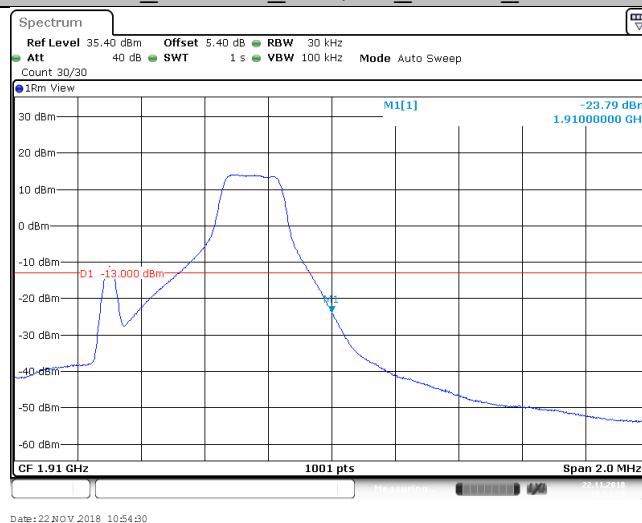
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Band2_1.4MHz_16QAM_18607_6RB#0



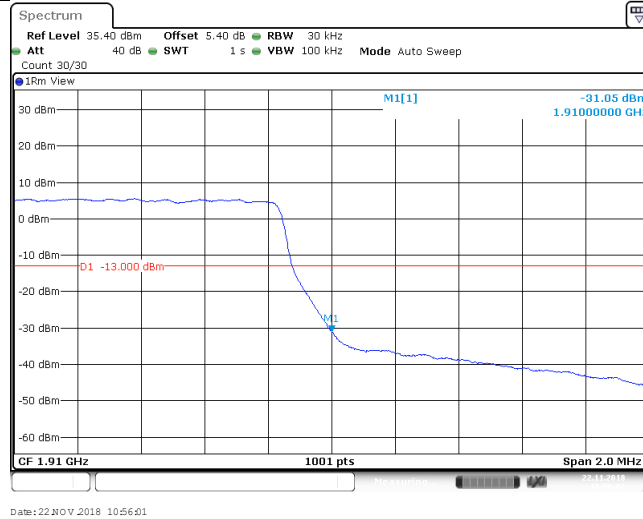
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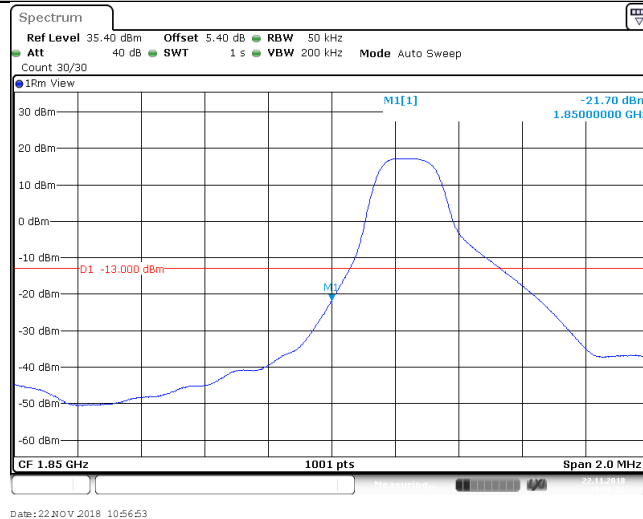
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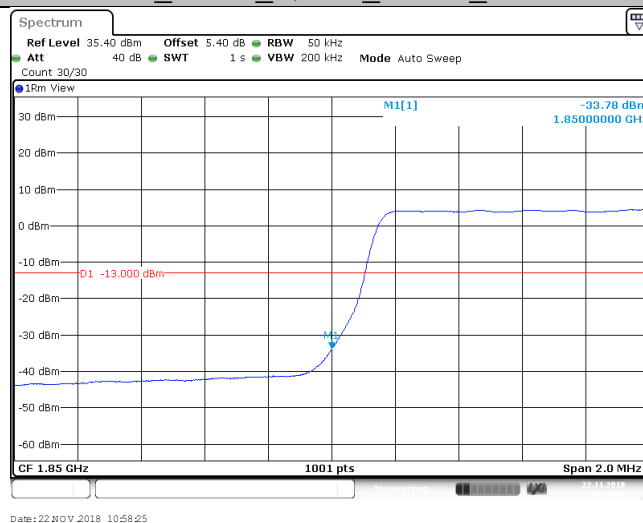
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Band2_3MHz_QPSK_18615_1RB#0



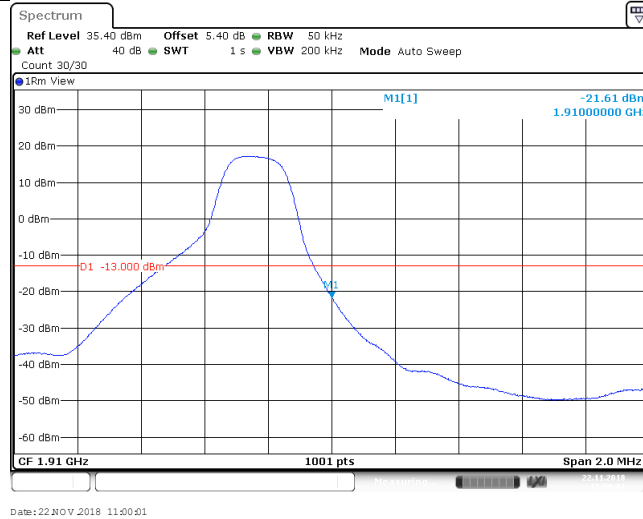
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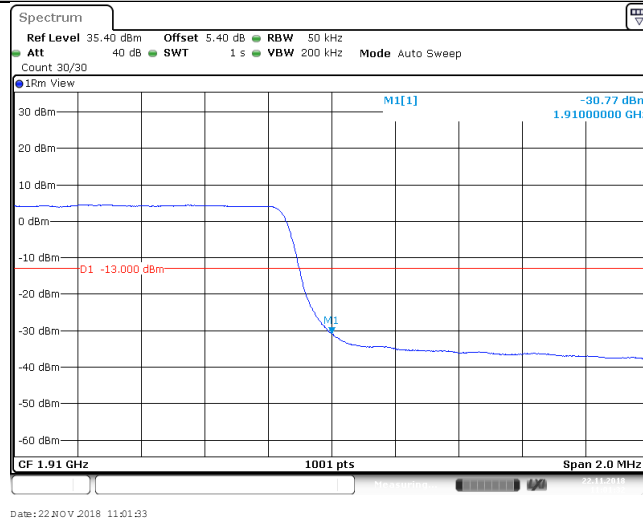
Band2_3MHz_QPSK_19185_1RB#14

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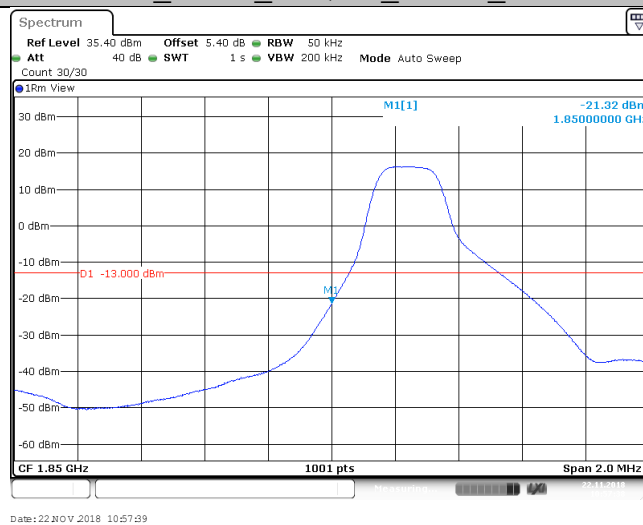
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Band2_3MHz_QPSK_19185_15RB#0



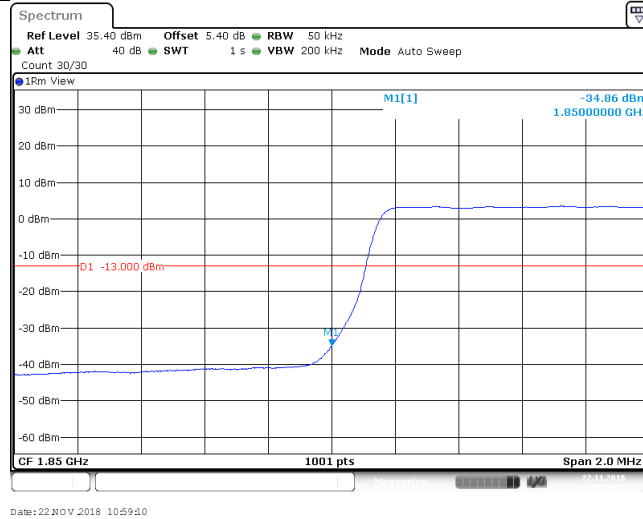
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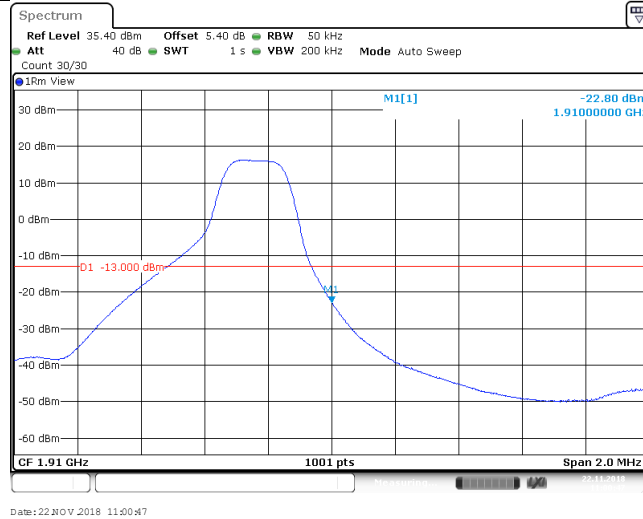
Band2_3MHz_16QAM_18615_15RB#0

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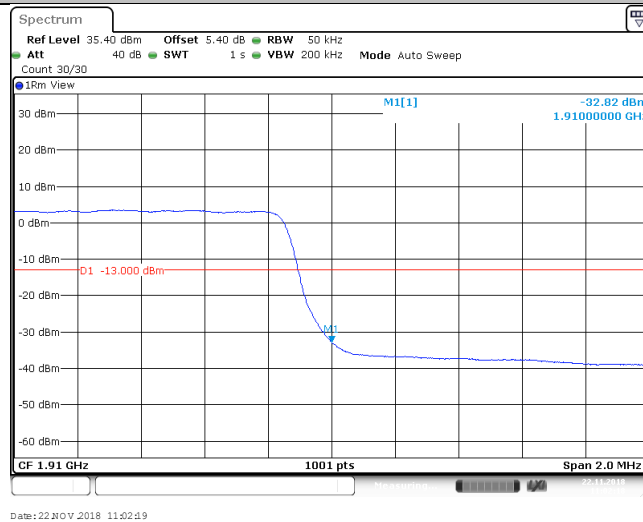
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Band2_3MHz_16QAM_19185_1RB#14



Band2_3MHz_16QAM_19185_15RB#0

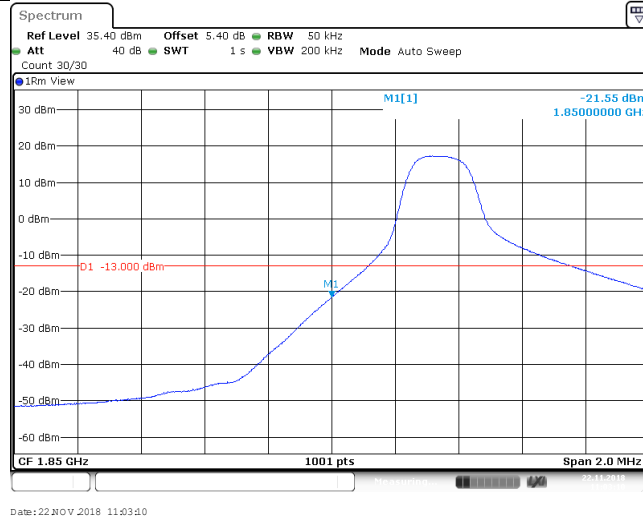


Band2_5MHz_QPSK_18625_1RB#0

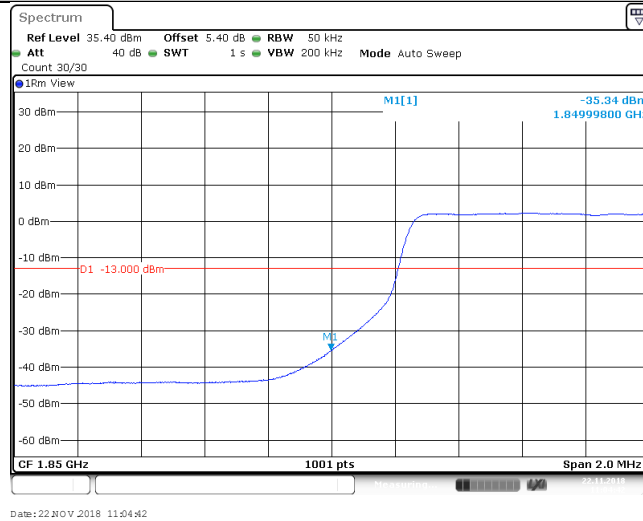
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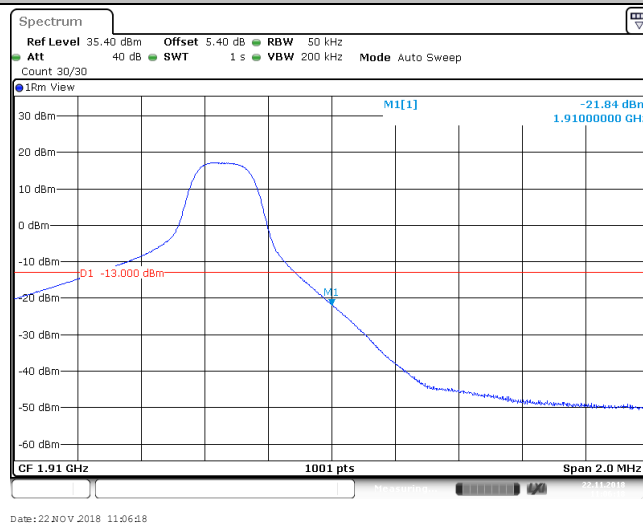
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Band2_5MHz_QPSK_18625_25RB#0



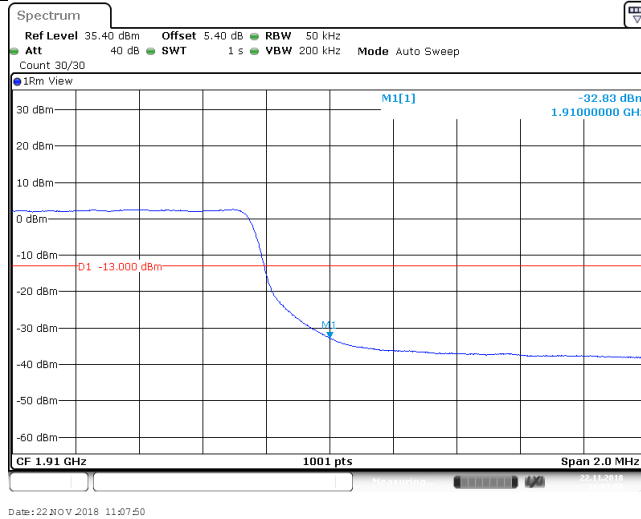
Band2_5MHz_QPSK_19175_1RB#24



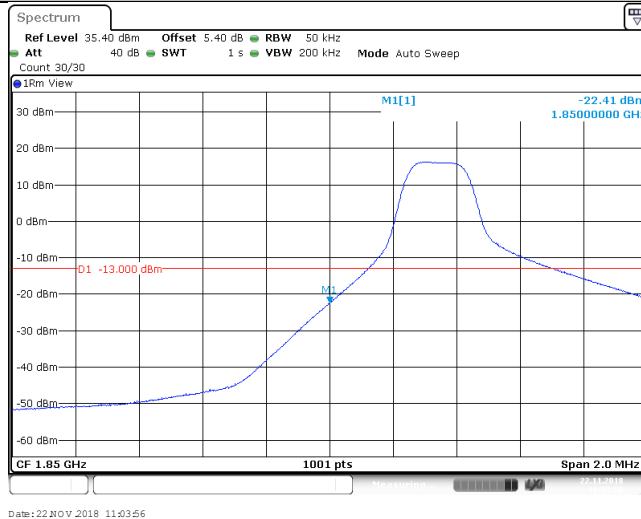
Band2_5MHz_QPSK_19175_25RB#0

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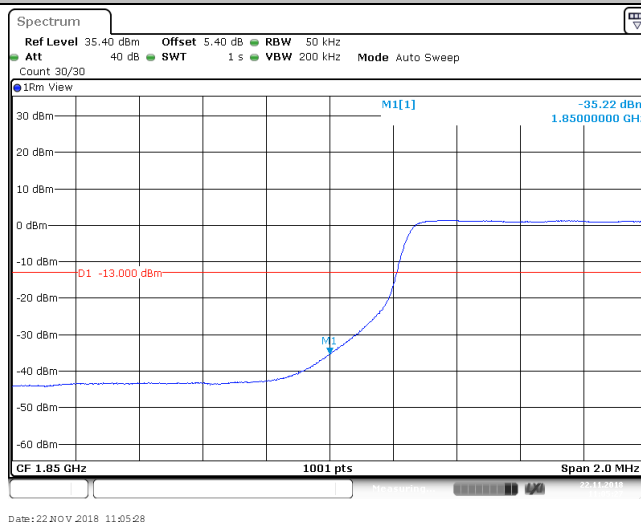
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Band2_5MHz_16QAM_18625_1RB#0



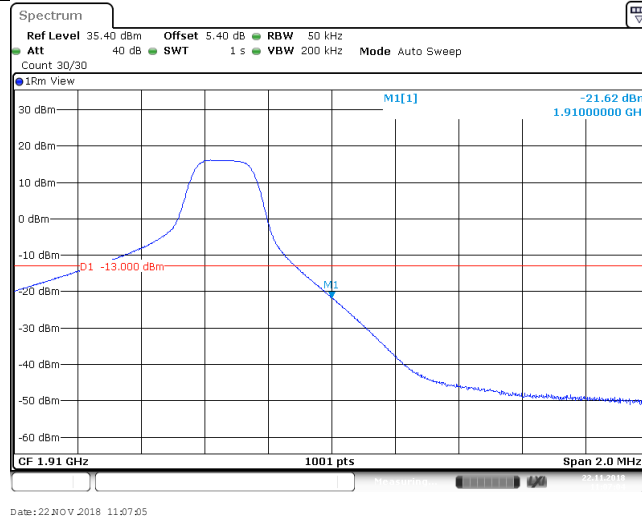
Band2_5MHz_16QAM_18625_25RB#0



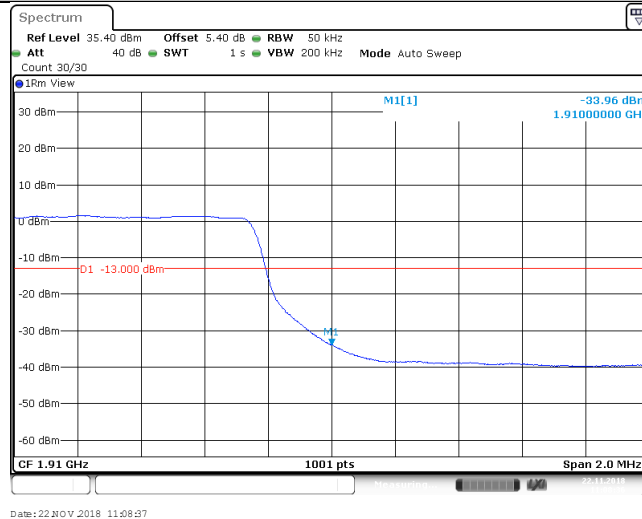
Band2_5MHz_16QAM_19175_1RB#24

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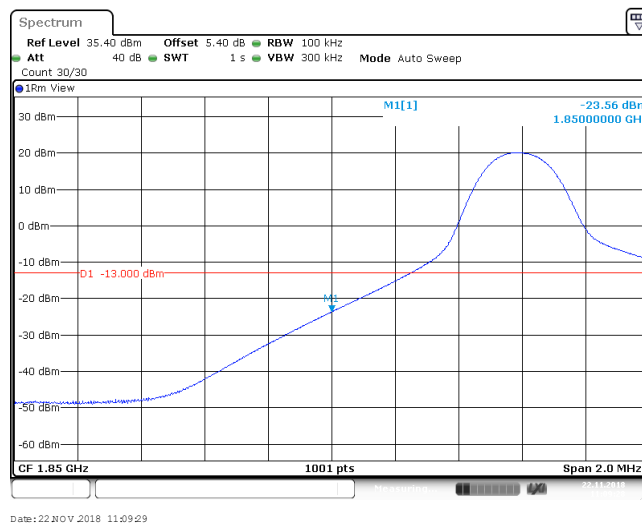
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Band2_5MHz_16QAM_19175_25RB#0



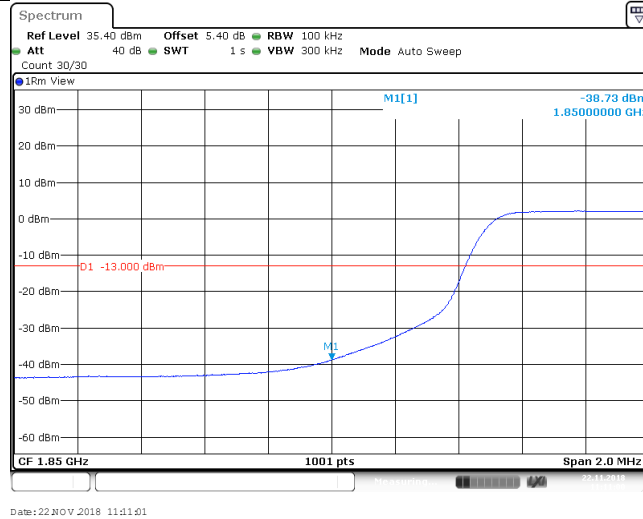
Band2_10MHz_QPSK_18650_1RB#0



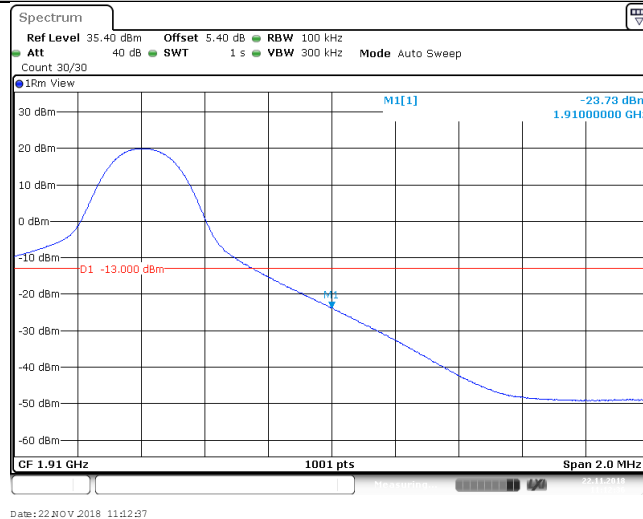
Band2_10MHz_QPSK_18650_50RB#0

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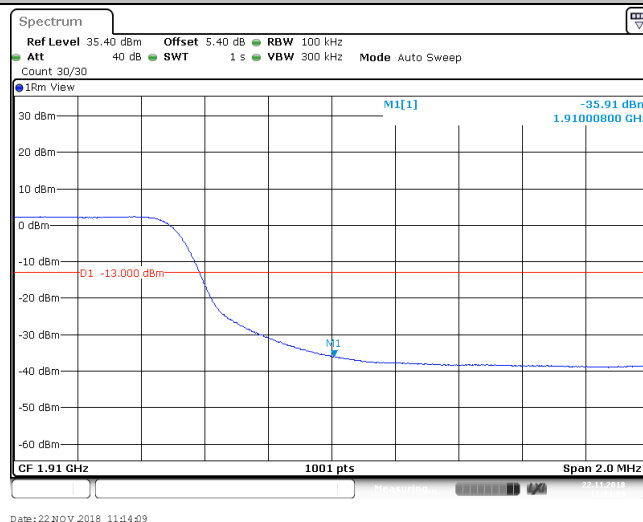
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Band2_10MHz_QPSK_19150_1RB#49



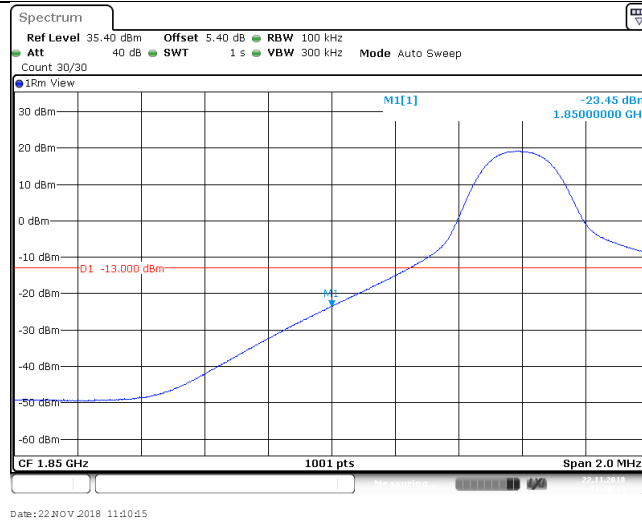
Band2_10MHz_QPSK_19150_50RB#0



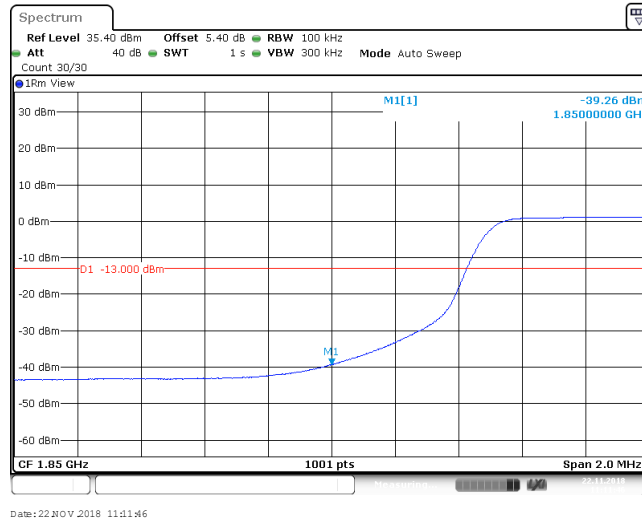
Band2_10MHz_16QAM_18650_1RB#0

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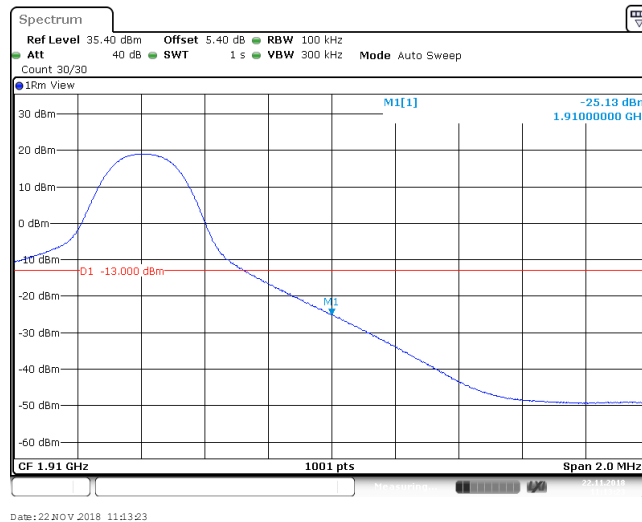
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Band2_10MHz_16QAM_18650_50RB#0



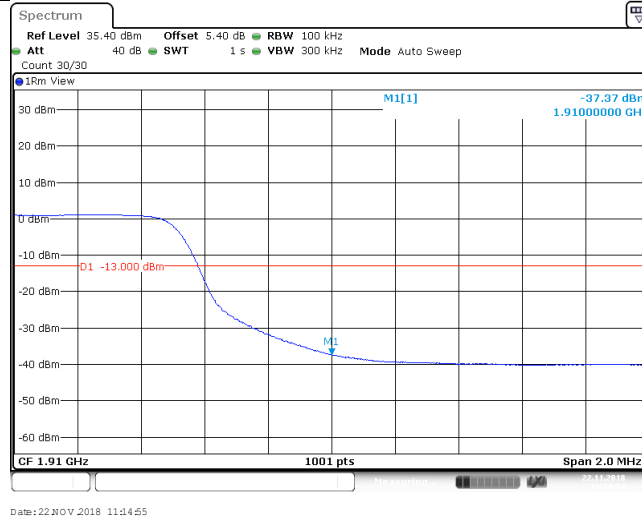
Band2_10MHz_16QAM_19150_1RB#49



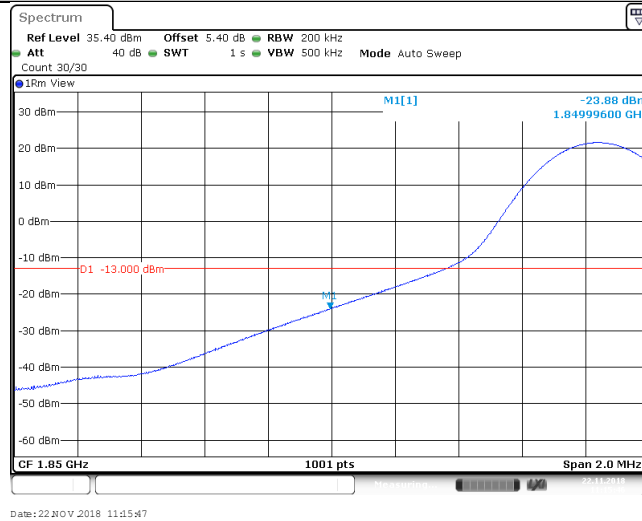
Band2_10MHz_16QAM_19150_50RB#0

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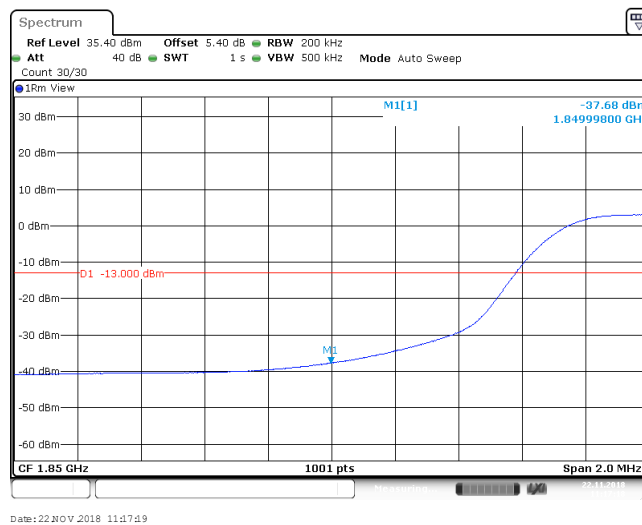
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Band2_15MHz_QPSK_18675_1RB#0



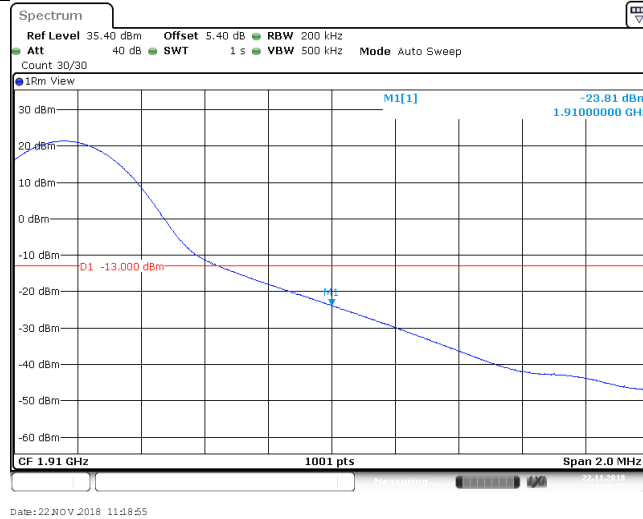
Band2_15MHz_QPSK_18675_75RB#0



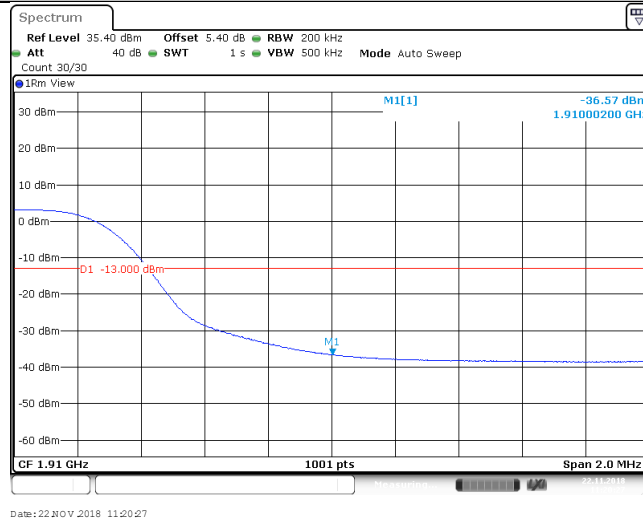
Band2_15MHz_QPSK_19125_1RB#74

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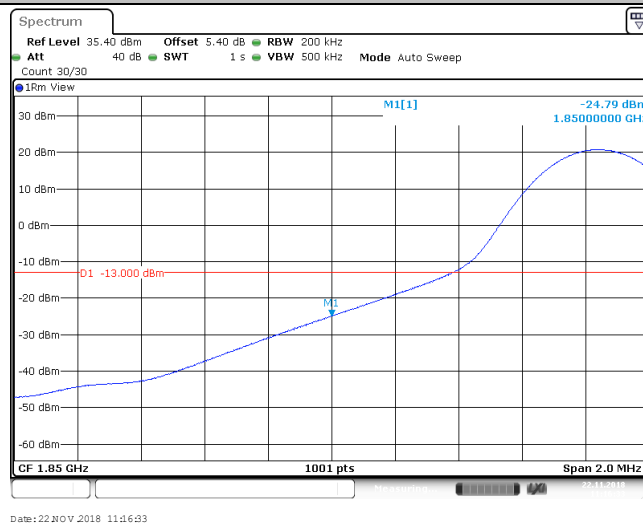
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Band2_15MHz_QPSK_19125_75RB#0



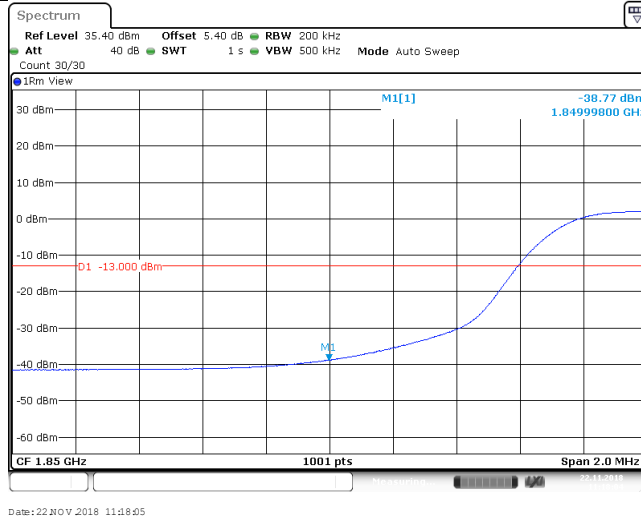
Band2_15MHz_16QAM_18675_1RB#0



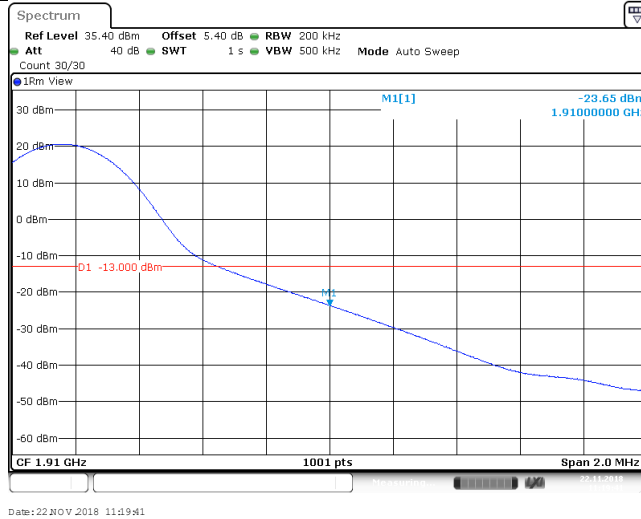
Band2_15MHz_16QAM_18675_75RB#0

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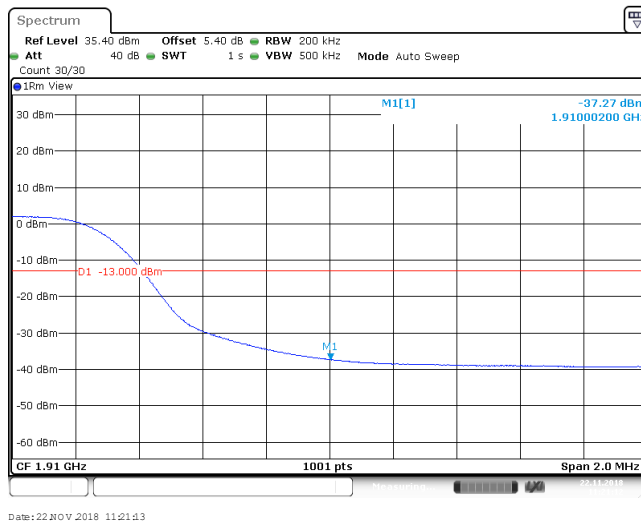
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Band2_15MHz_16QAM_19125_1RB#74



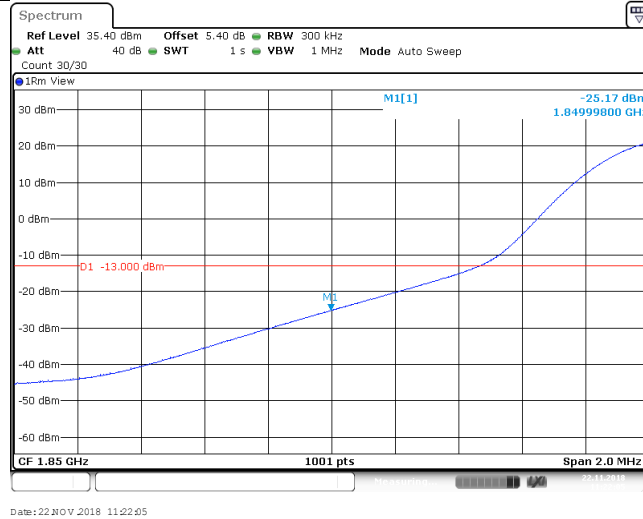
Band2_15MHz_16QAM_19125_75RB#0



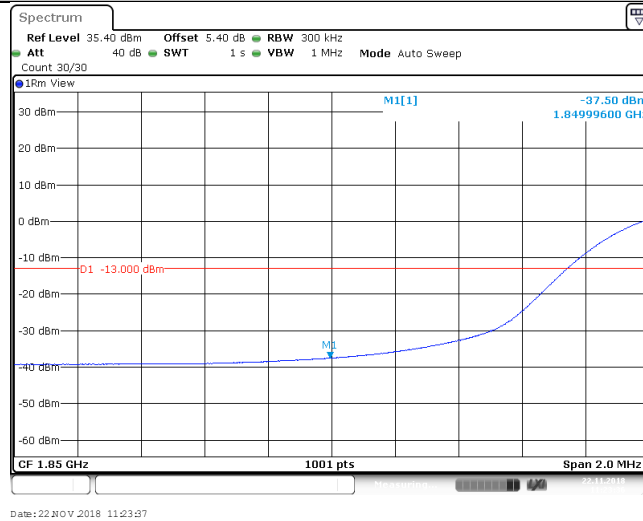
Band2_20MHz_QPSK_18700_1RB#0

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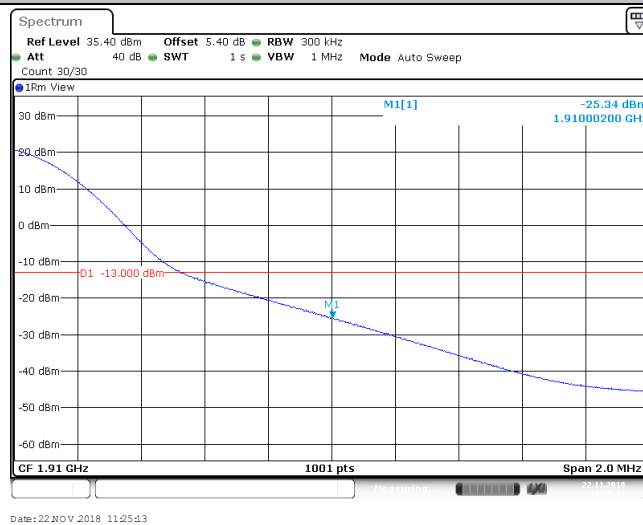
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Band2_20MHz_QPSK_18700_100RB#0



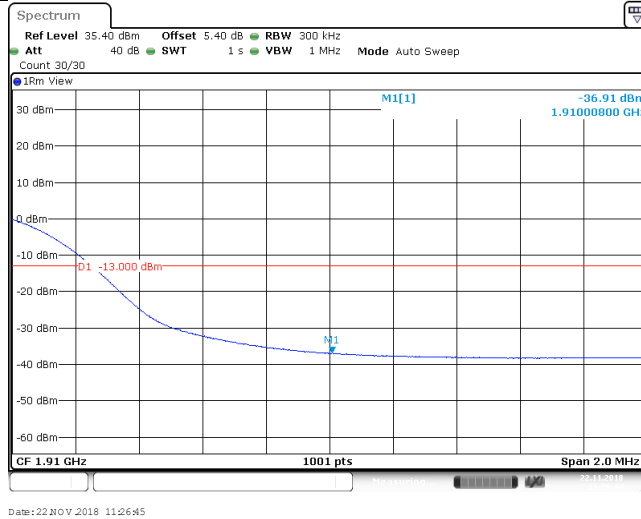
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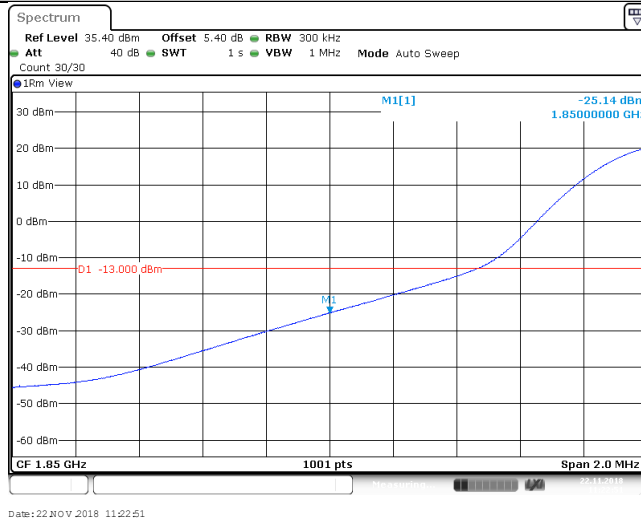
Band2_20MHz_QPSK_19100_100RB#0

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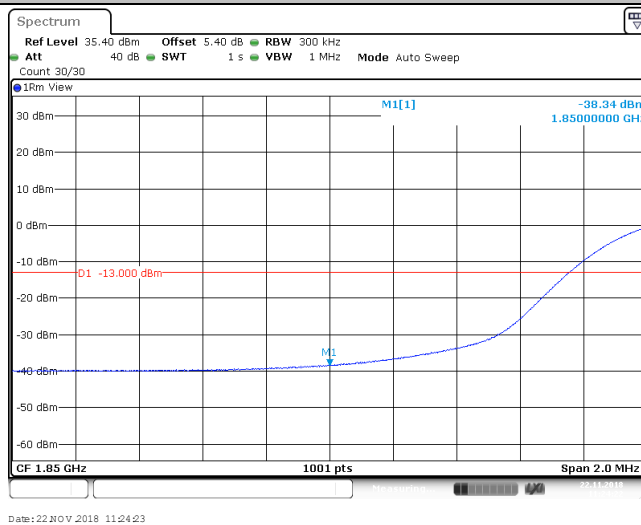
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Band2_20MHz_16QAM_18700_1RB#0



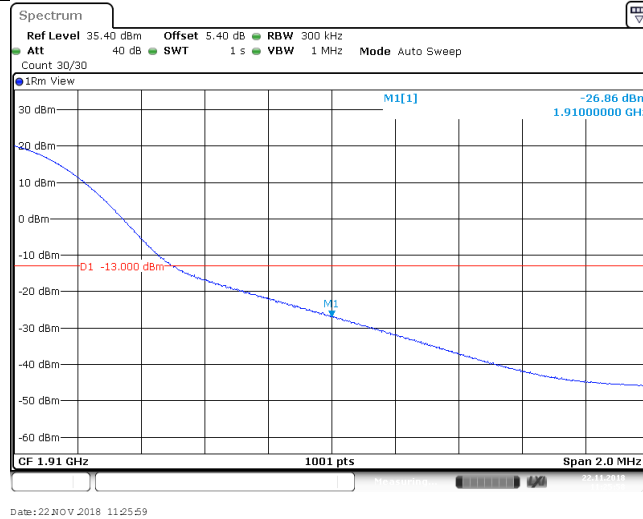
Band2_20MHz_16QAM_18700_100RB#0



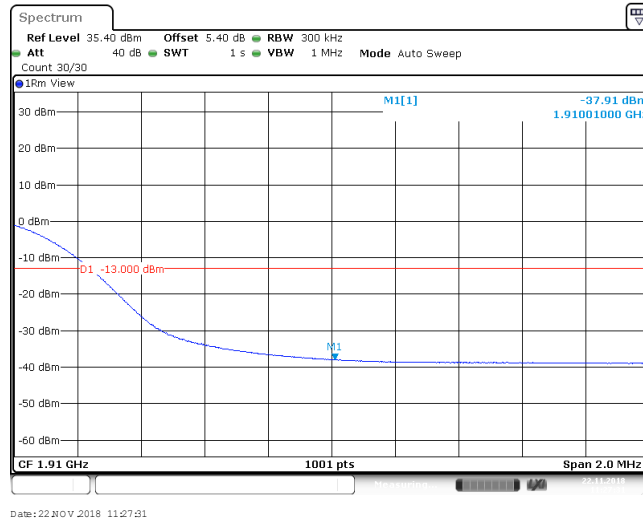
Band2_20MHz_16QAM_19100_1RB#99

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Band2_20MHz_16QAM_19100_100RB#0



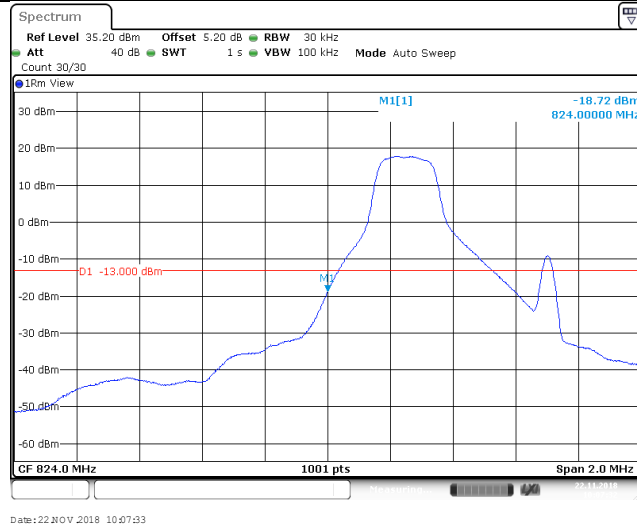
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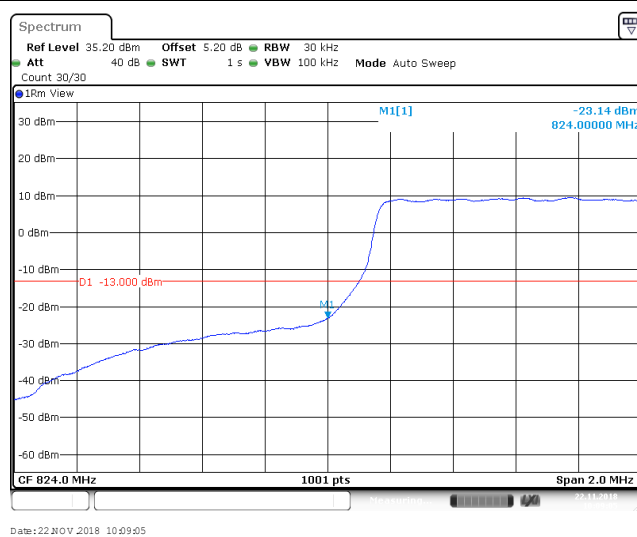
8.7. Measurement Result: LTE Band 5

8.7.1. Plots

Band5_1.4MHz_QPSK_20407_1RB#0



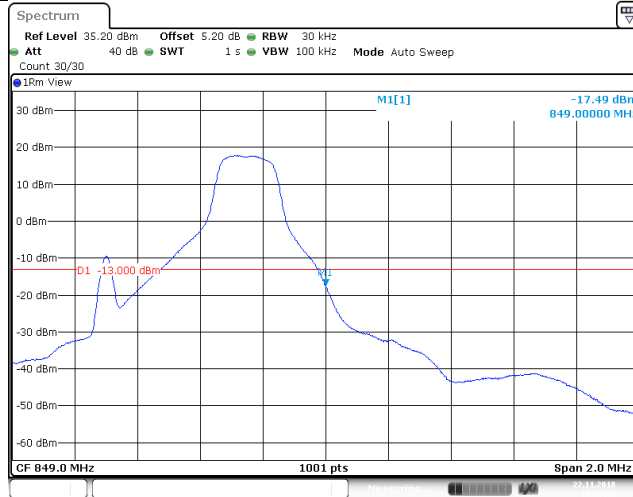
Band5_1.4MHz_QPSK_20407_6RB#0



Band5_1.4MHz_QPSK_20643_1RB#5

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Date: 22 NOV 2018 10:30:41

Band5_1.4MHz_QPSK_20643_6RB#0



Date: 22 NOV 2018 10:32:13

Band5_1.4MHz_16QAM_20407_1RB#0

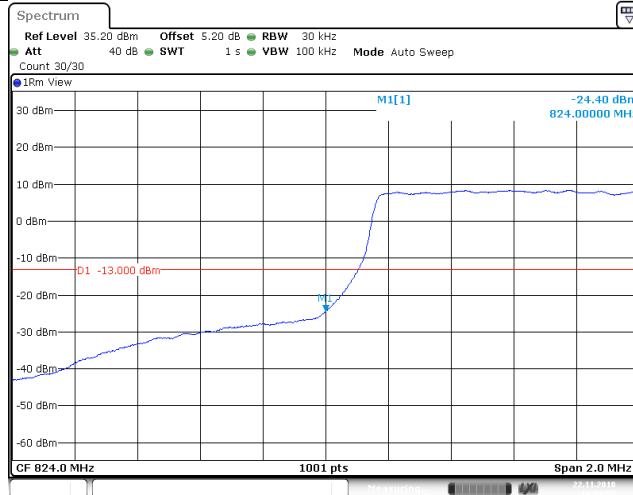


Date: 22 NOV 2018 10:38:19

Band5_1.4MHz_16QAM_20407_6RB#0

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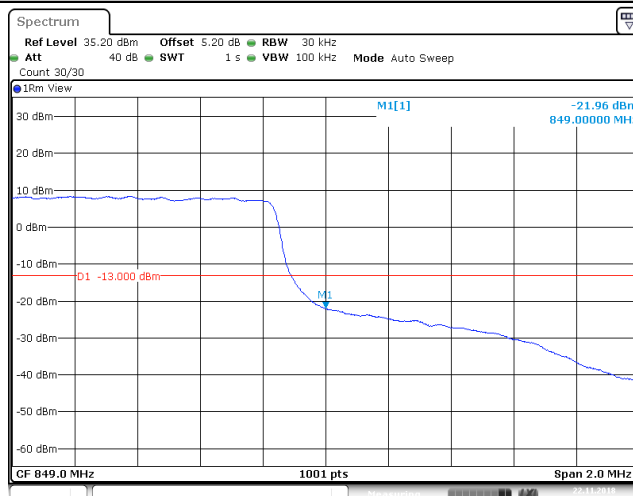
Date: 22 NOV 2018 10:59:51

Band5_1.4MHz_16QAM_20643_1RB#5



Date: 22 NOV 2018 10:11:27

Band5_1.4MHz_16QAM_20643_6RB#0

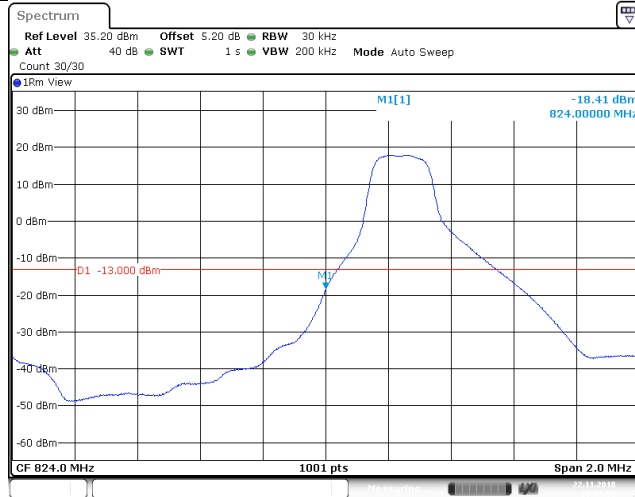


Date: 22 NOV 2018 10:42:59

Band5_3MHz_QPSK_20415_1RB#0

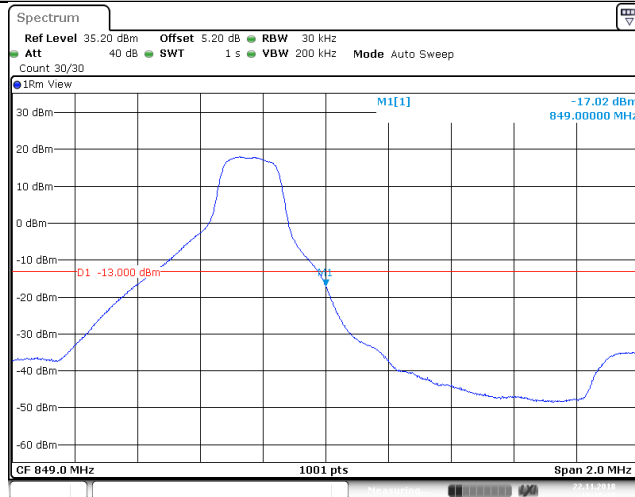
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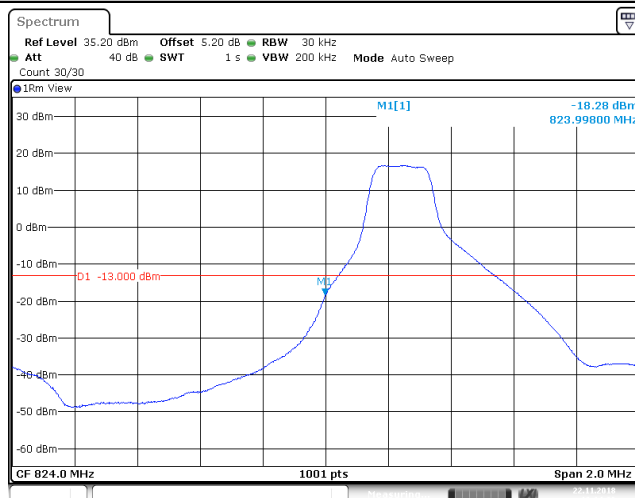
Date: 22 NOV 2018 10:43:51

Band5_3MHz_QPSK_20635_1RB#14



Date: 22 NOV 2018 10:45:27

Band5_3MHz_16QAM_20415_1RB#0

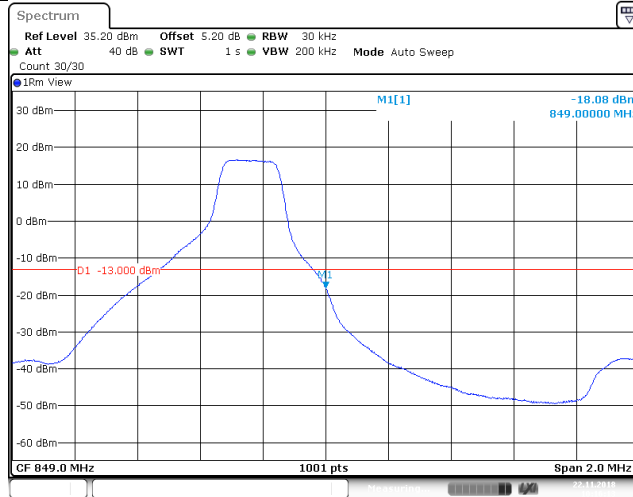


Date: 22 NOV 2018 10:44:37

Band5_3MHz_16QAM_20635_1RB#14

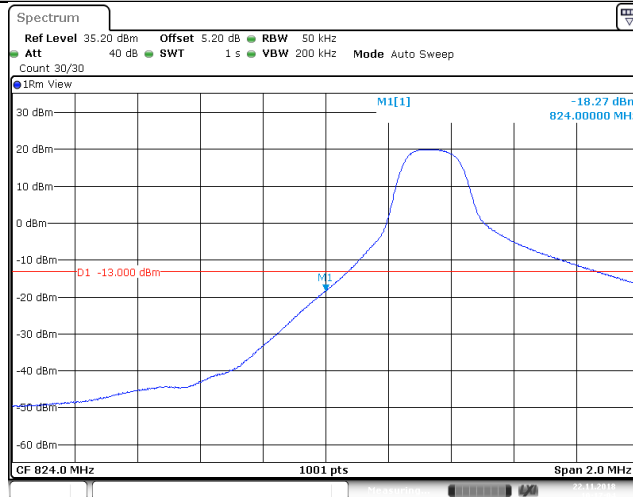
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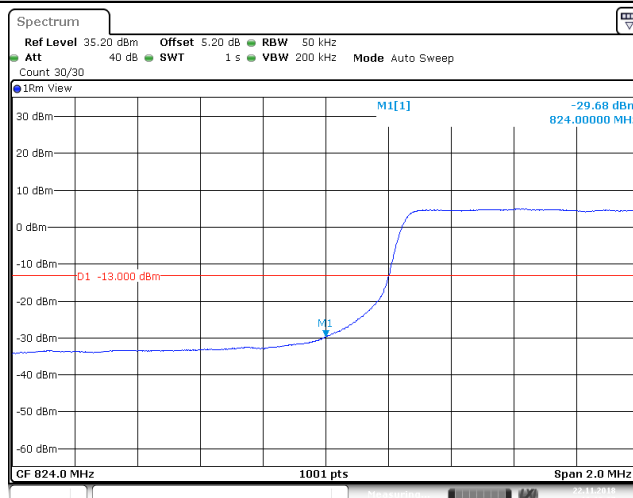
Date: 22 NOV 2018 10:46:13

Band5_5MHz_QPSK_20425_1RB#0



Date: 22 NOV 2018 10:47:05

Band5_5MHz_QPSK_20425_25RB#0

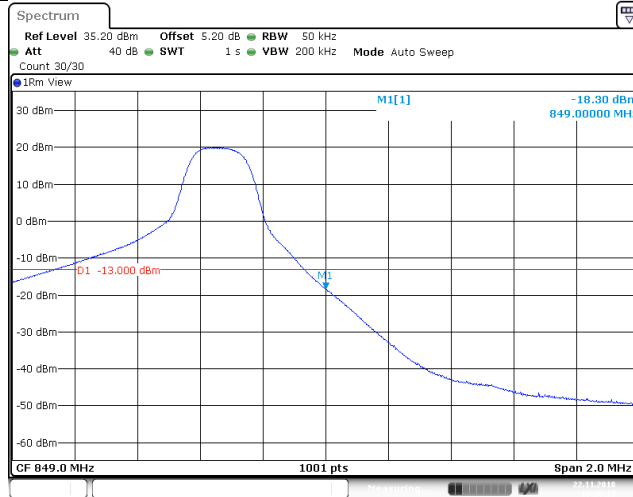


Date: 22 NOV 2018 10:48:37

Band5_5MHz_QPSK_20625_1RB#24

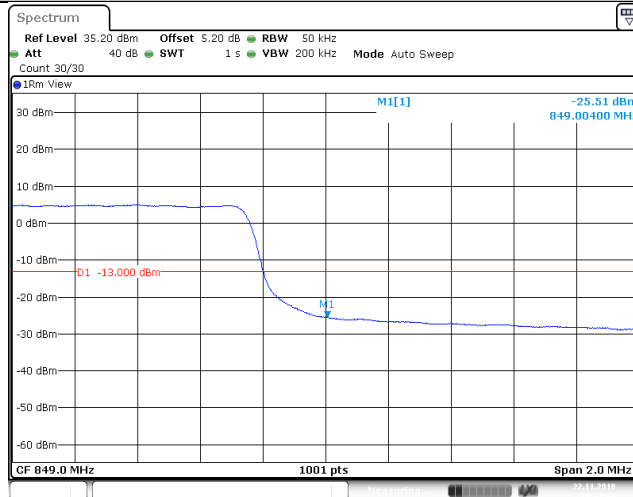
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Date: 22 NOV 2018 10:20:13

Band5_5MHz_QPSK_20625_25RB#0



Date: 22 NOV 2018 10:21:45

Band5_5MHz_16QAM_20425_1RB#0

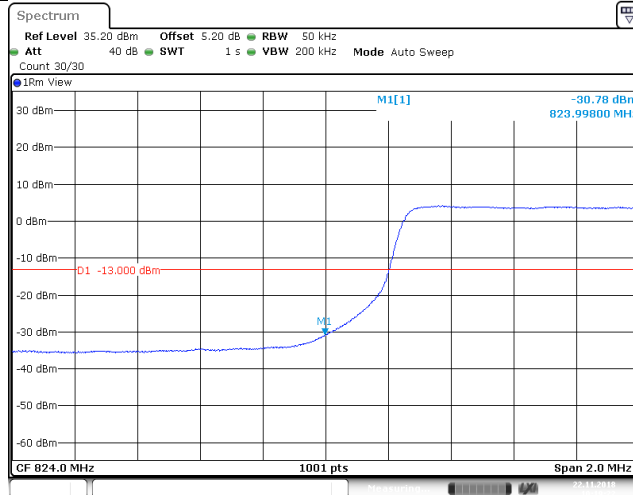


Date: 22 NOV 2018 10:27:51

Band5_5MHz_16QAM_20425_25RB#0

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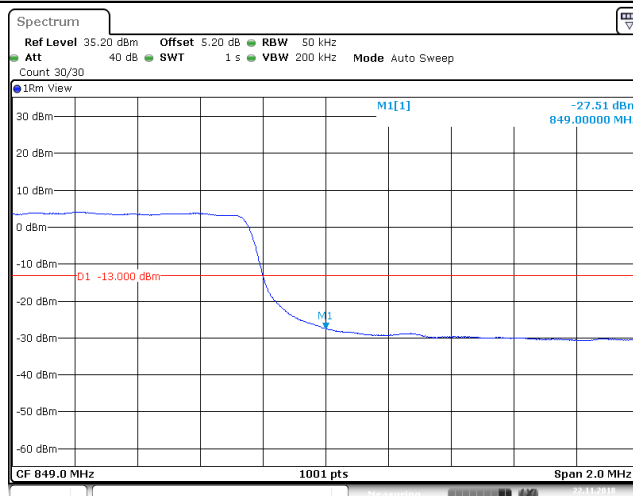
Date: 22 NOV 2018 10:19:23

Band5_5MHz_16QAM_20625_1RB#24



Date: 22 NOV 2018 10:20:59

Band5_5MHz_16QAM_20625_25RB#0

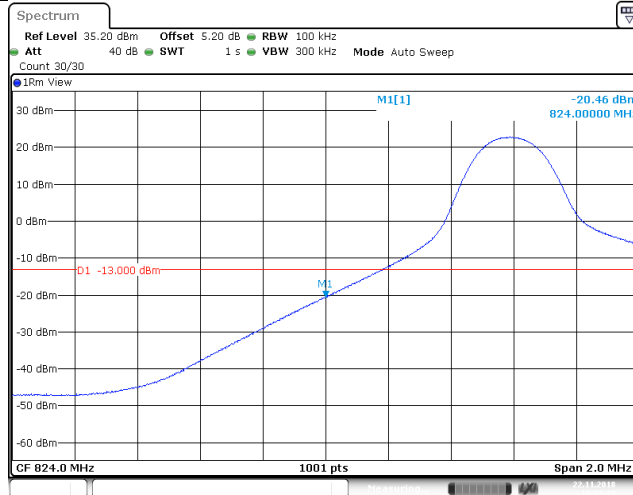


Date: 22 NOV 2018 10:22:31

Band5_10MHz_QPSK_20450_1RB#0

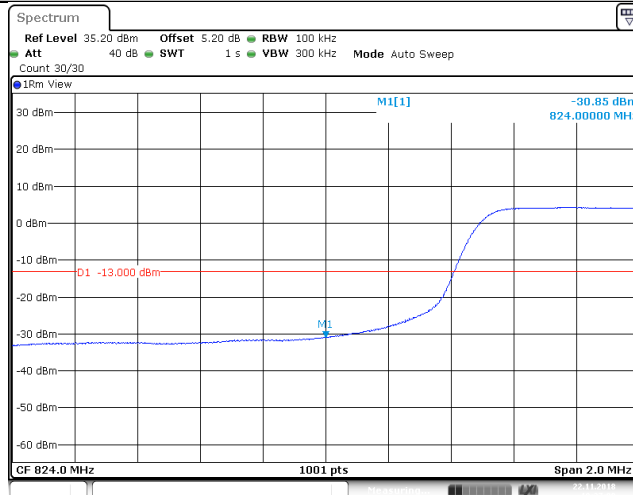
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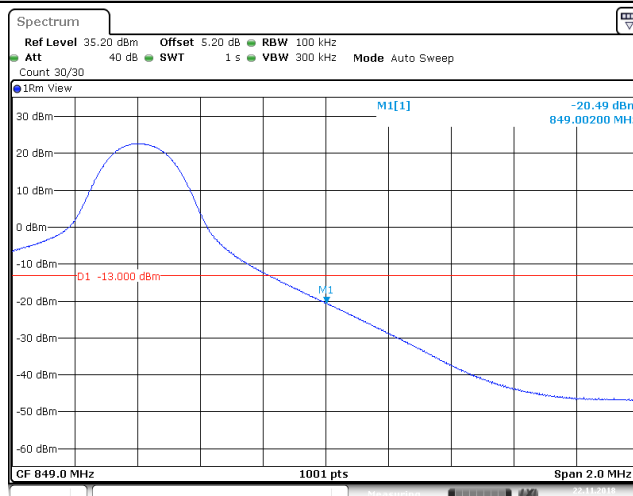
Date: 22 NOV 2018 10:23:22

Band5_10MHz_QPSK_20450_50RB#0



Date: 22 NOV 2018 10:27:09

Band5_10MHz_QPSK_20600_1RB#49

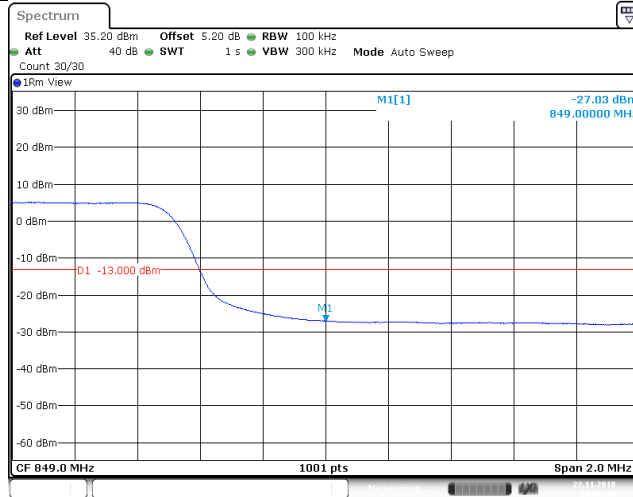


Date: 22 NOV 2018 10:28:45

Band5_10MHz_QPSK_20600_50RB#0

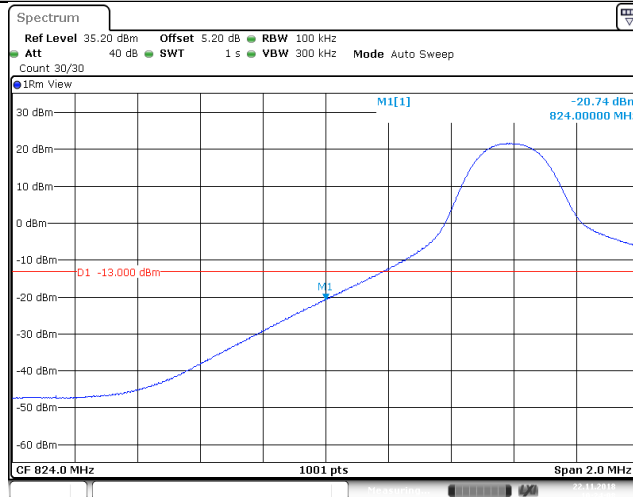
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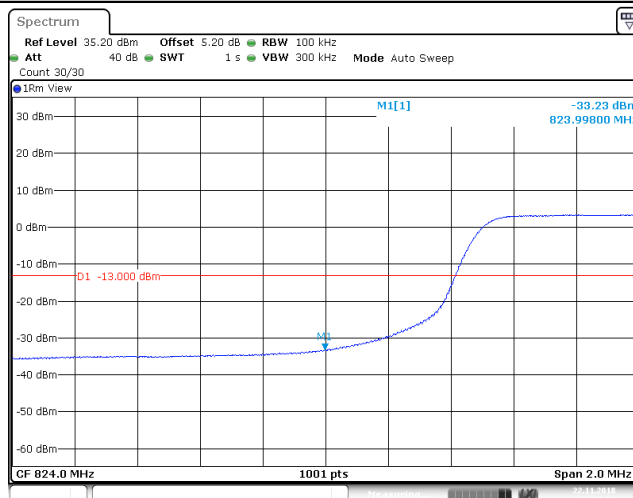
Date: 22 NOV 2018 10:30:16

Band5_10MHz_16QAM_20450_1RB#0



Date: 22 NOV 2018 10:24:08

Band5_10MHz_16QAM_20450_50RB#0

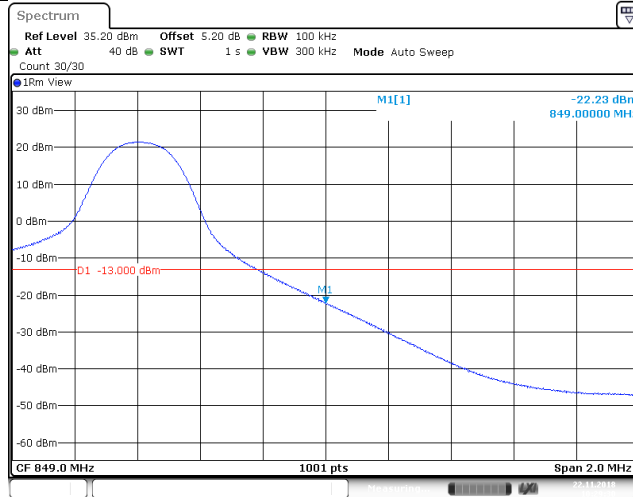


Date: 22 NOV 2018 10:27:55

Band5_10MHz_16QAM_20600_1RB#49

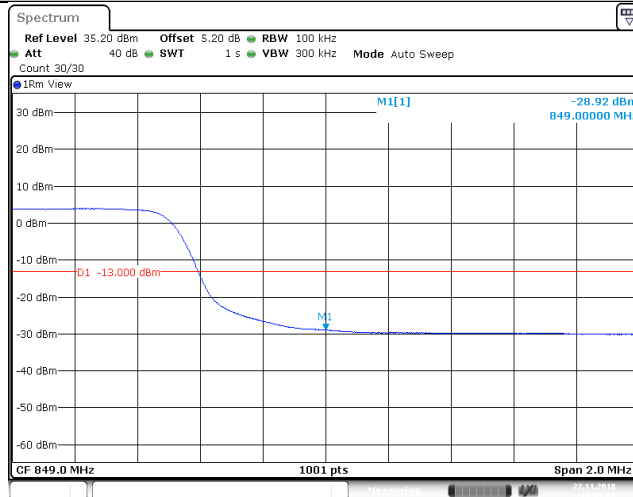
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Date: 22 NOV 2018 10:29:30

Band5_10MHz_16QAM_20600_50RB#0



Date: 22 NOV 2018 10:31:02

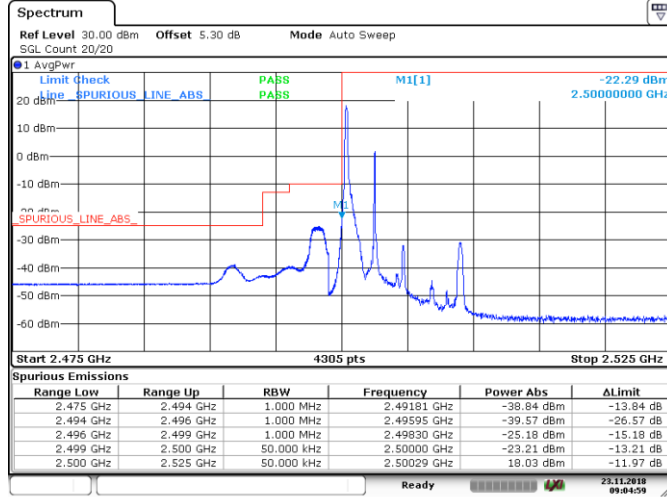
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8.8. Measurement Result: LTE Band 7

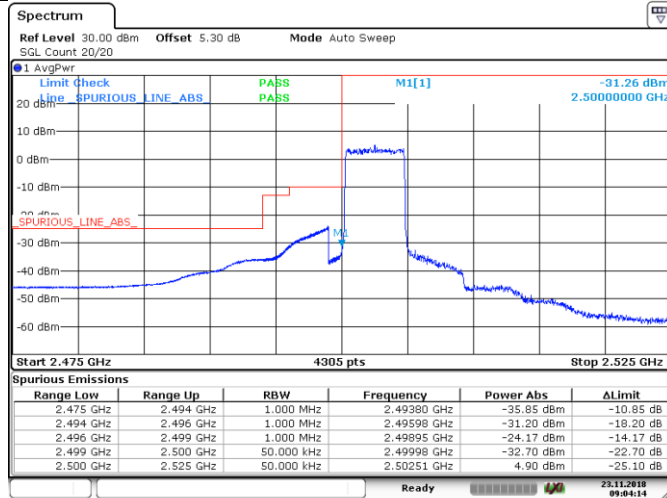
8.8.1. Plots

Band7_5MHz_QPSK_20775_1RB#0



Date: 23 NOV 2018 09:04:59

Band7_5MHz_QPSK_20775_25RB#0

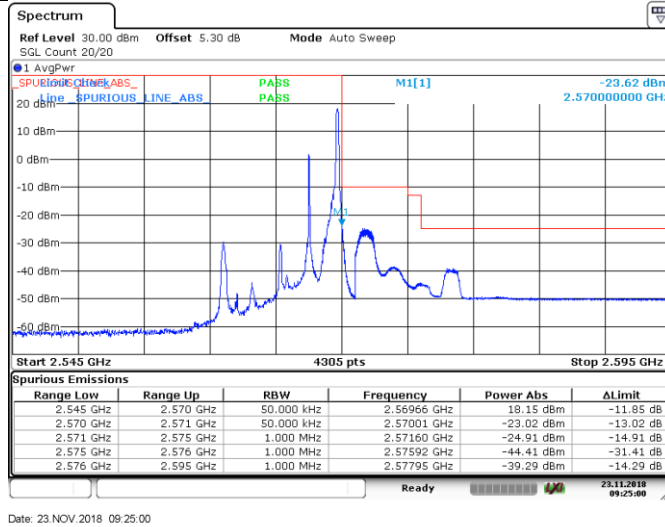


Date: 23 NOV 2018 09:04:14

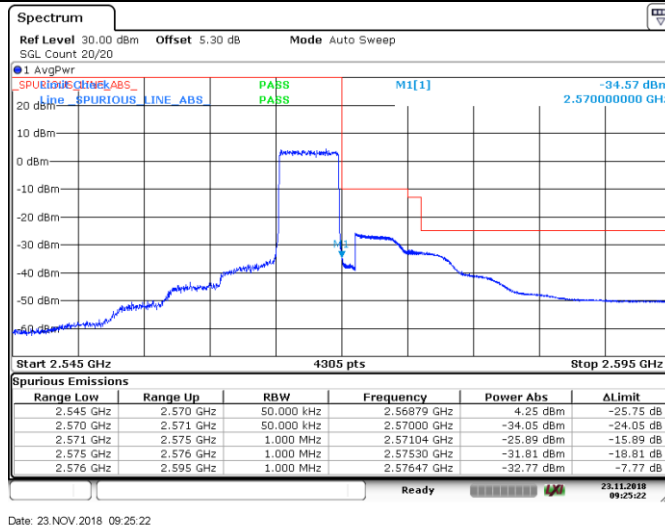
Band7_5MHz_QPSK_21425_1RB#24

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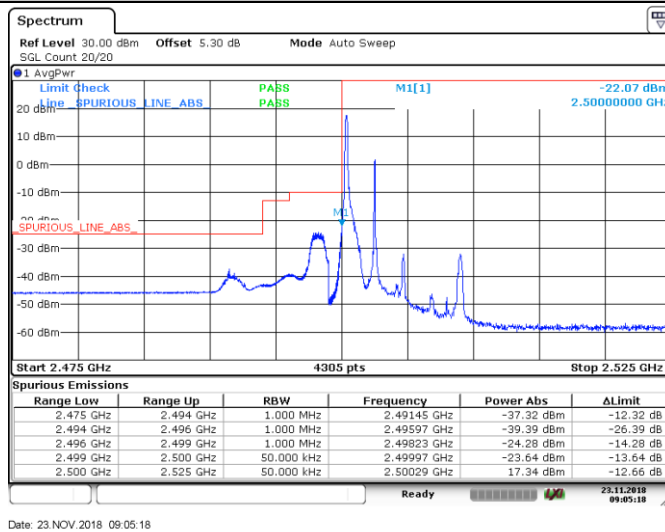
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Band7_5MHz_QPSK_21425_25RB#0



Band7_5MHz_16QAM_20775_1RB#0

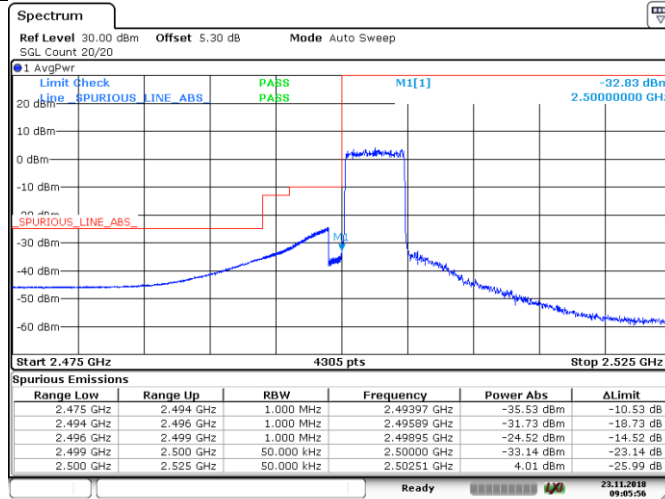


Band7_5MHz_16QAM_20775_25RB#0

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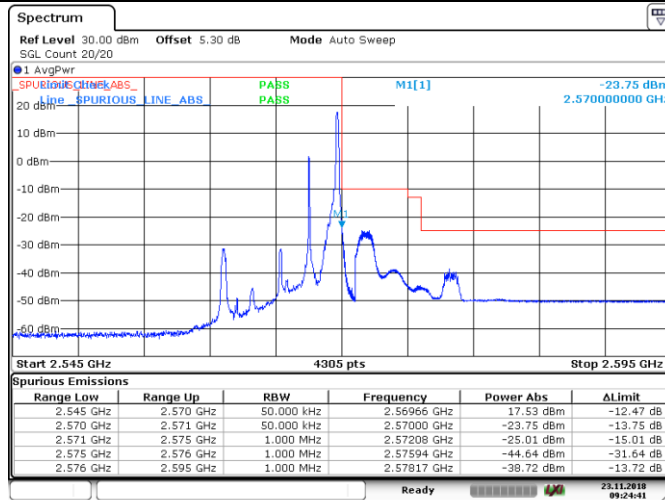
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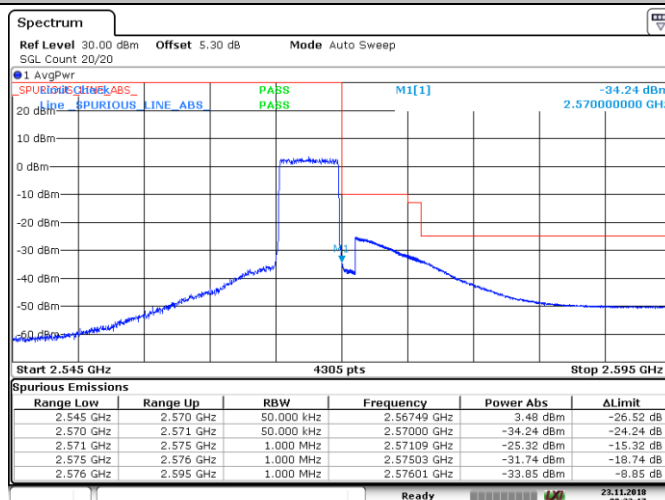
Date: 23.NOV.2018 09:05:56

Band7_5MHz_16QAM_21425_1RB#24



Date: 23.NOV.2018 09:24:41

Band7_5MHz_16QAM_21425_25RB#0

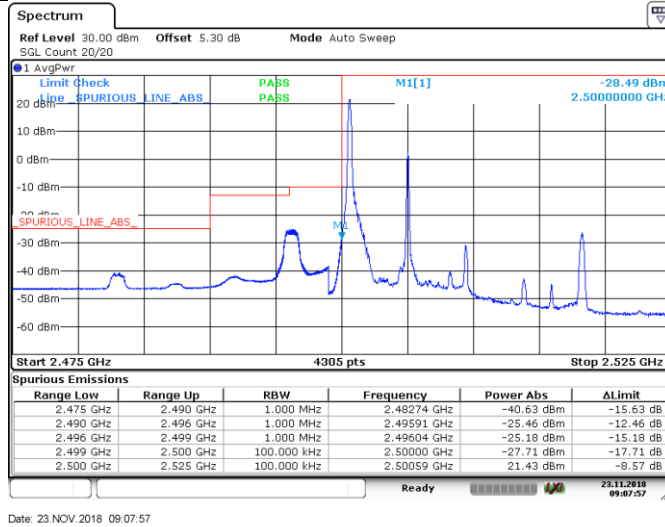


Date: 23.NOV.2018 09:23:17

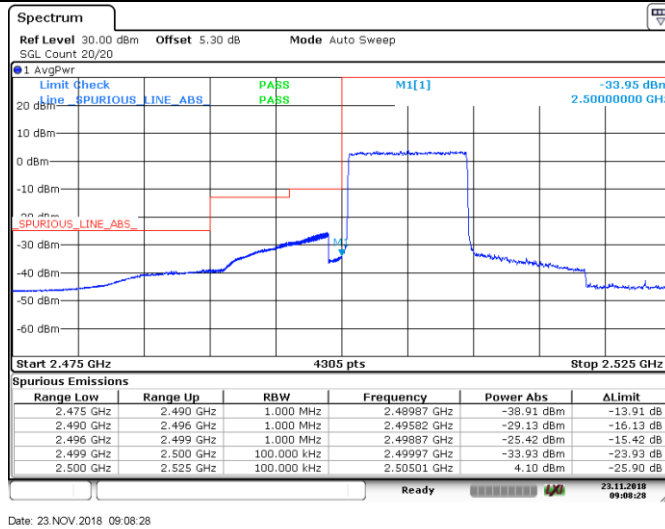
Band7_10MHz_QPSK_20800_1RB#0

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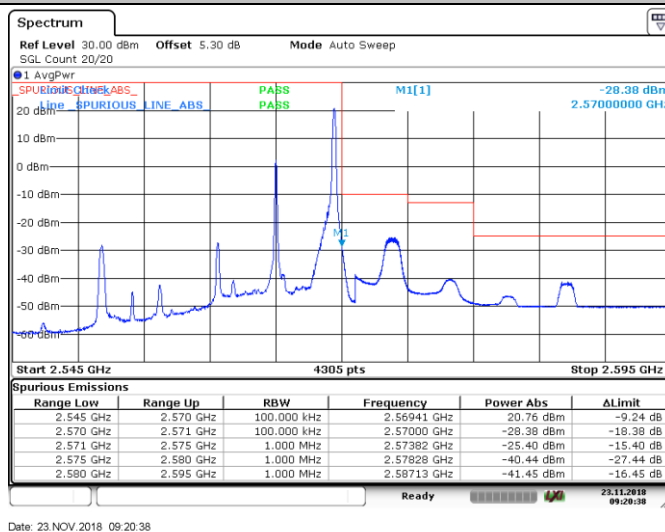
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Band7_10MHz_QPSK_20800_50RB#0



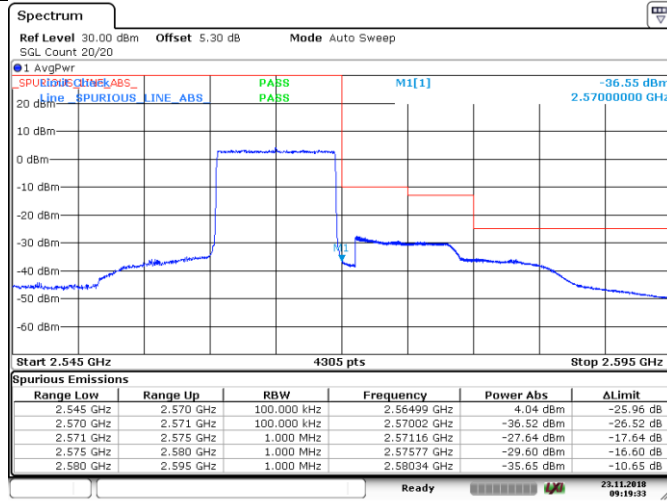
Band7_10MHz_QPSK_21400_1RB#49



Band7_10MHz_QPSK_21400_50RB#0

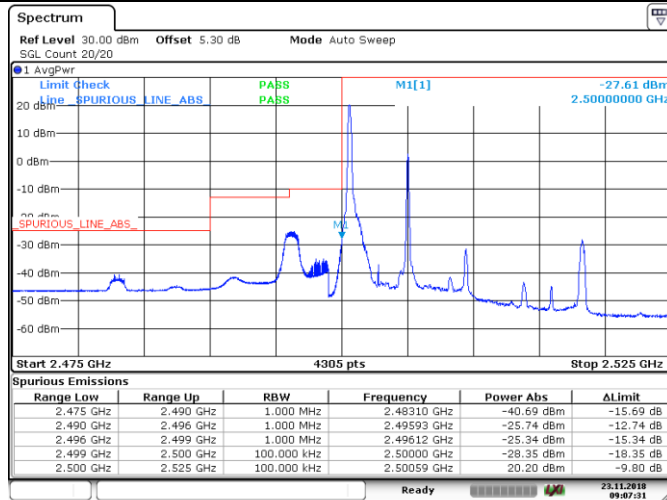
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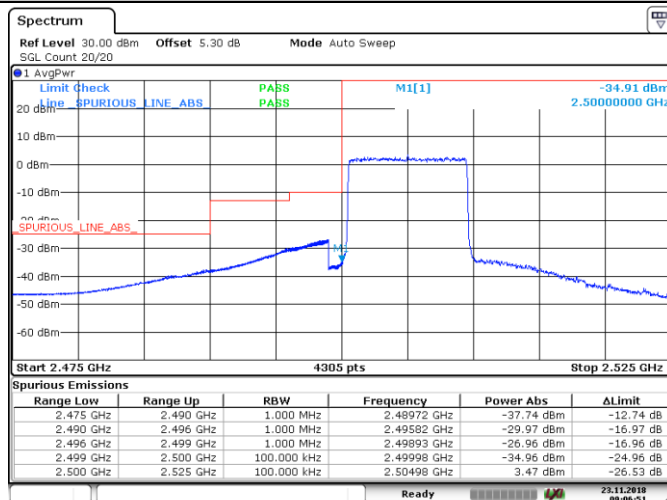
Date: 23.NOV.2018 09:19:33

Band7_10MHz_16QAM_20800_1RB#0



Date: 23.NOV.2018 09:07:31

Band7_10MHz_16QAM_20800_50RB#0

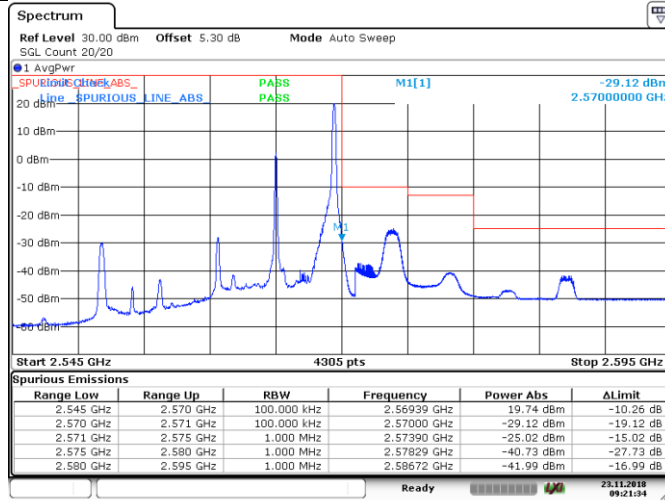


Date: 23.NOV.2018 09:06:52

Band7_10MHz_16QAM_21400_1RB#49

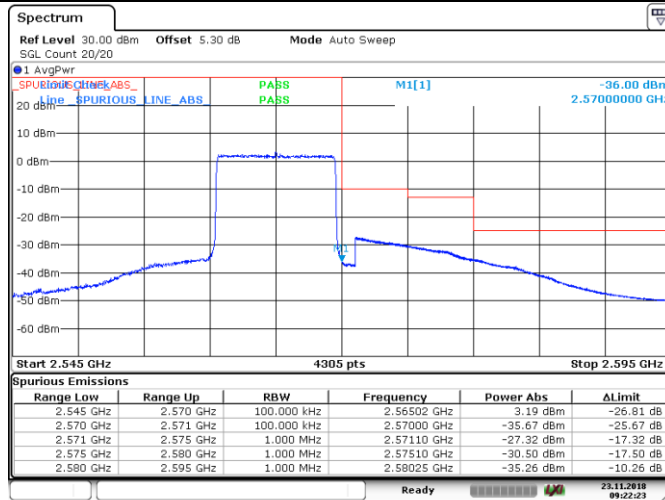
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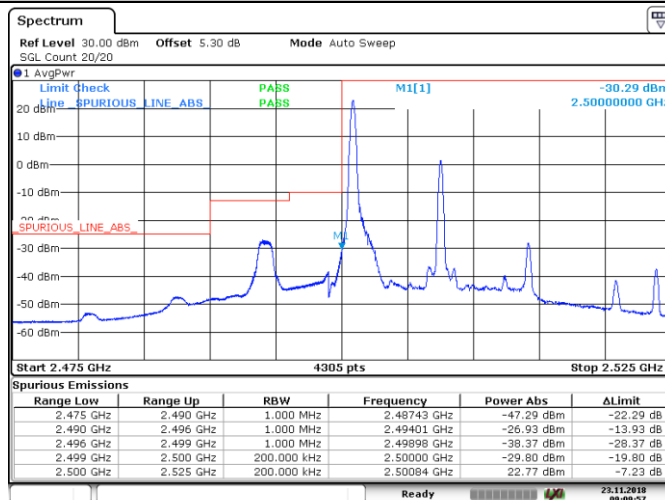
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Band7_10MHz_16QAM_21400_50RB#0



Date: 23.NOV.2018 09:22:23

Band7_15MHz_QPSK_20825_1RB#0

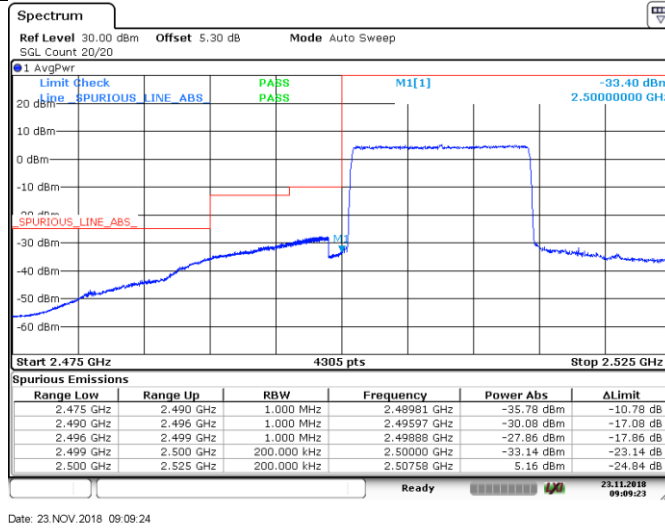


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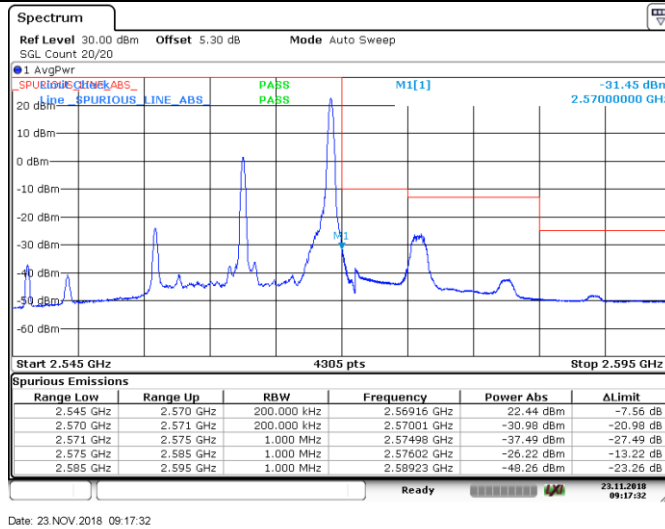
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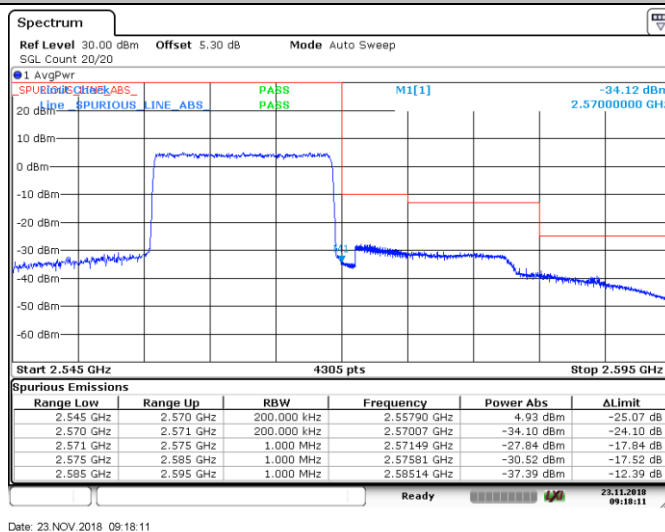
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Band7_15MHz_QPSK_21375_1RB#74



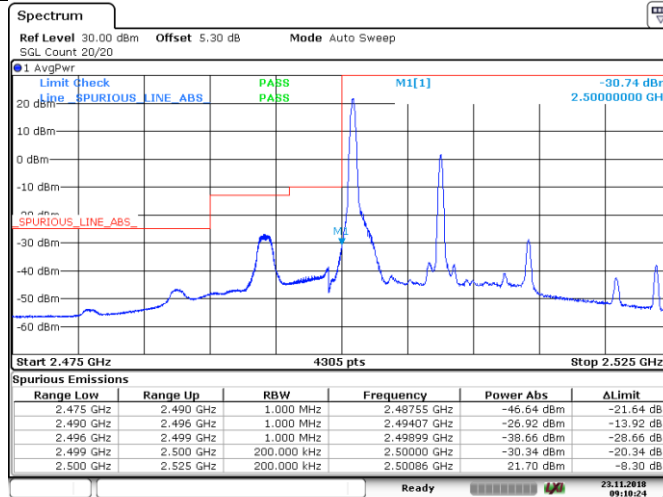
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Band7_15MHz_16QAM_20825_1RB#0

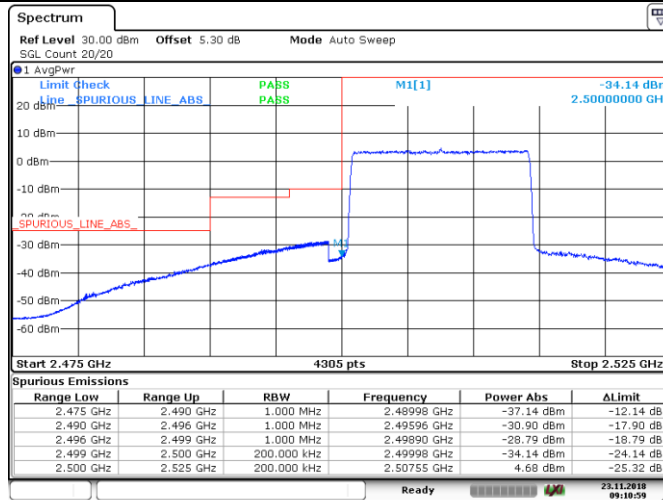
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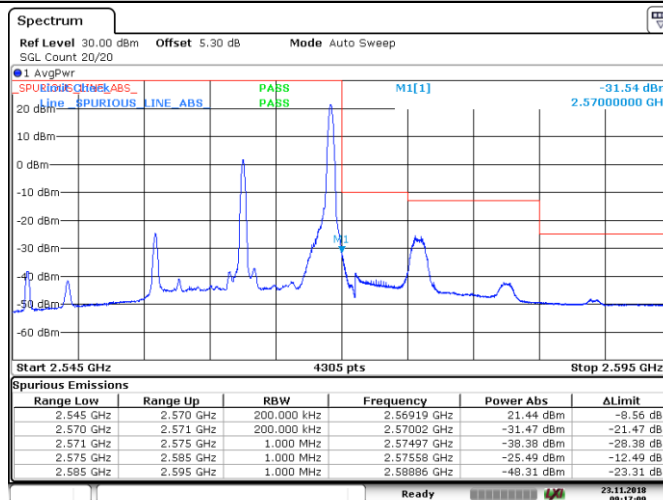
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Band7_15MHz_16QAM_21375_1RB#74

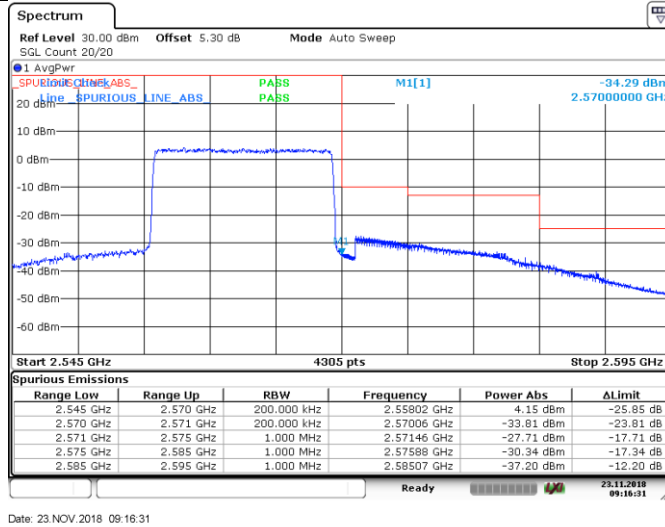


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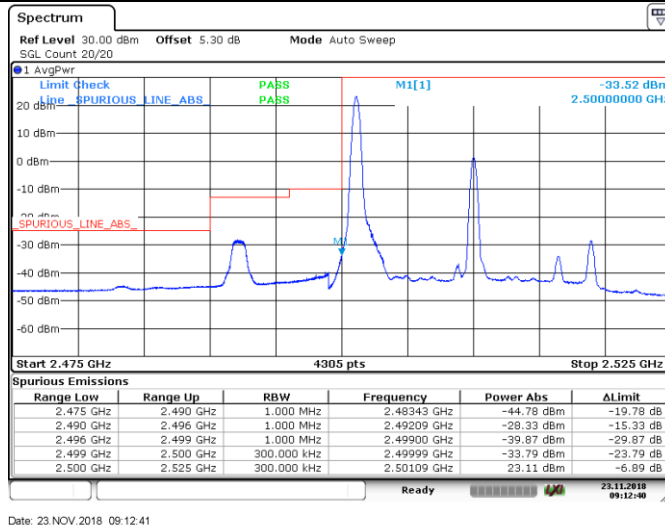
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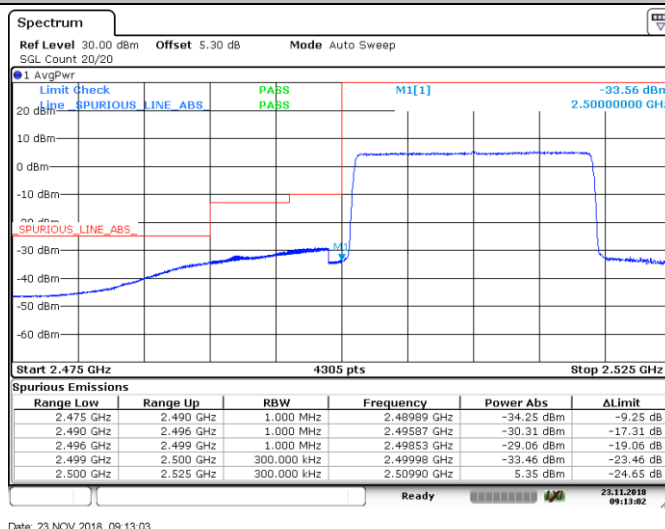
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Band7_20MHz_QPSK_20850_1RB#0



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Band7_20MHz_QPSK_20850_100RB#0

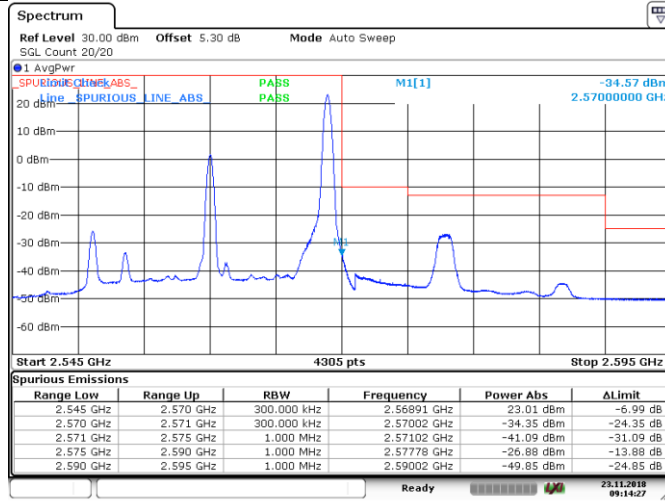


Date: 23.NOV.2018 09:13:03

Band7_20MHz_QPSK_21350_1RB#99

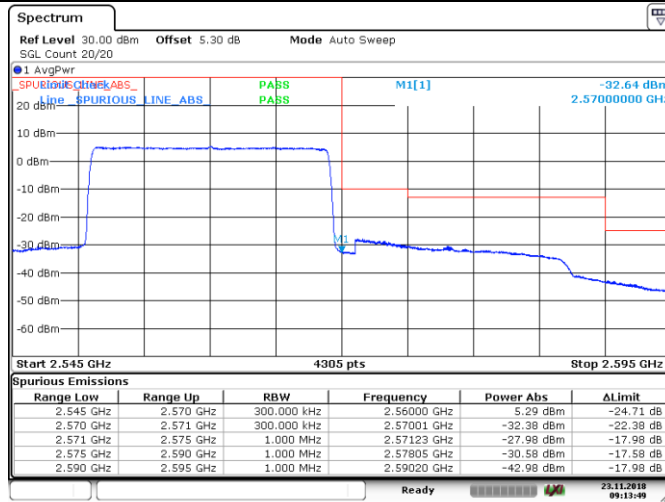
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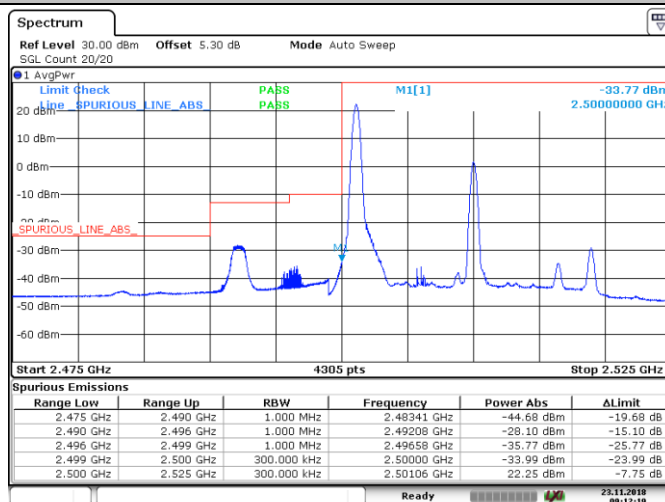
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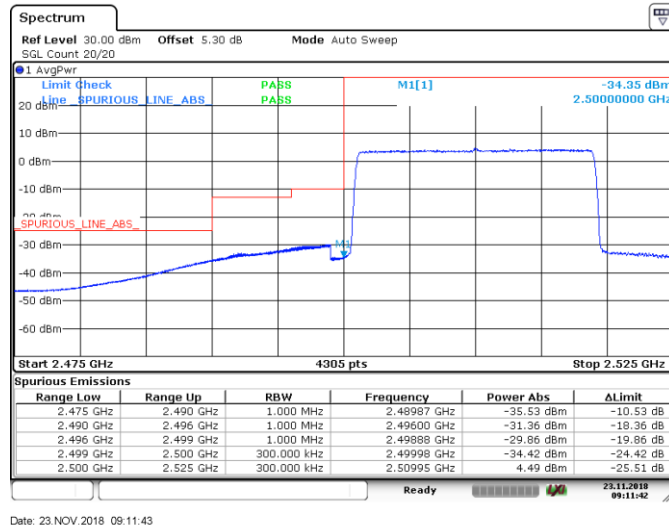


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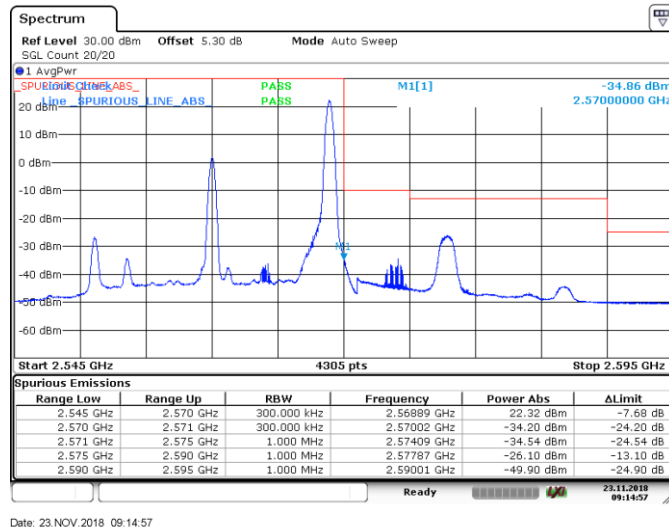
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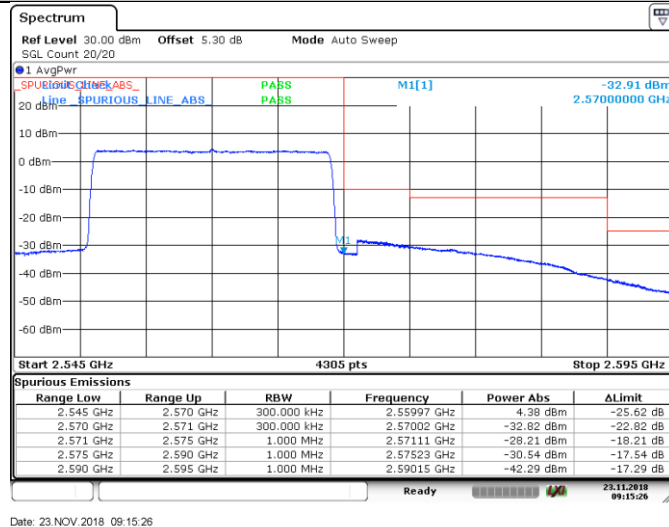
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Band7_20MHz_16QAM_21350_1RB#99



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Band7_20MHz_16QAM_21350_100RB#0



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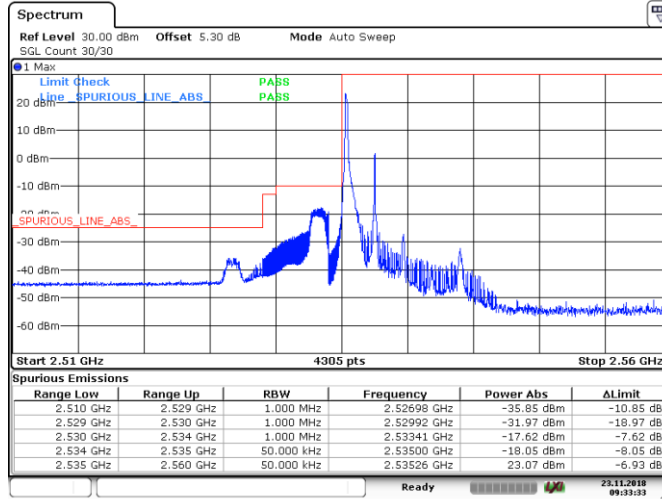
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8.9. Measurement Result: LTE Band 41

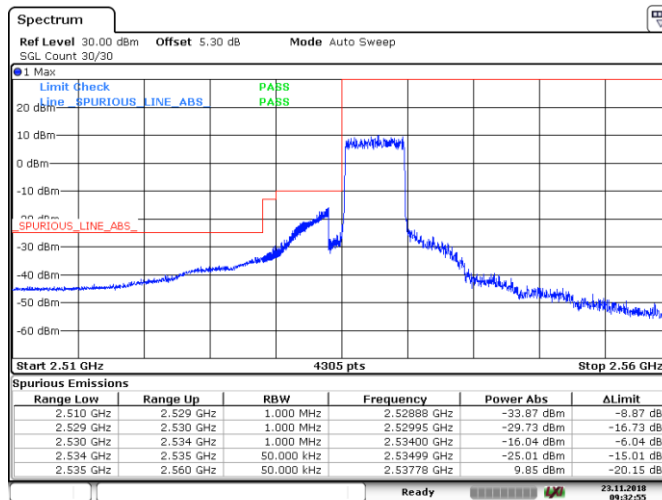
8.9.1. Plots

Band41_5MHz_QPSK_40065_1RB#0



Date: 23.NOV.2018 09:33:33

Band41_5MHz_QPSK_40065_25RB#0

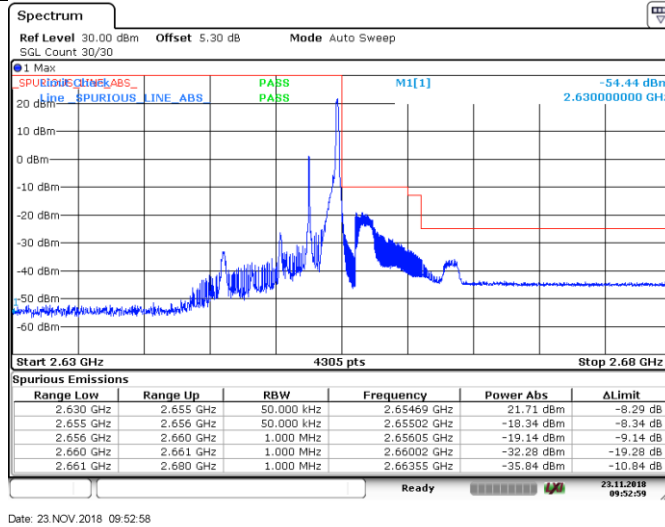


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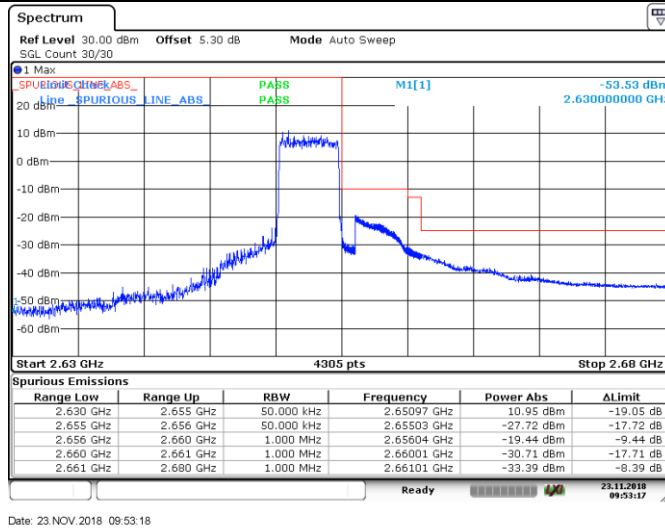
Band41_5MHz_QPSK_41215_1RB#24

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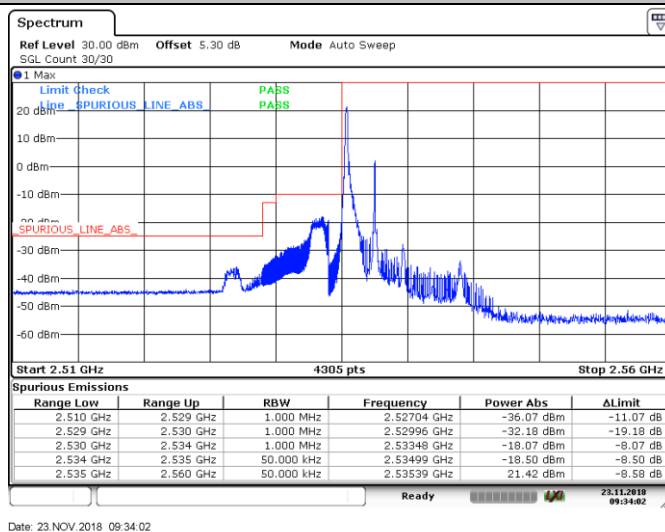
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Band41_5MHz_QPSK_41215_25RB#0



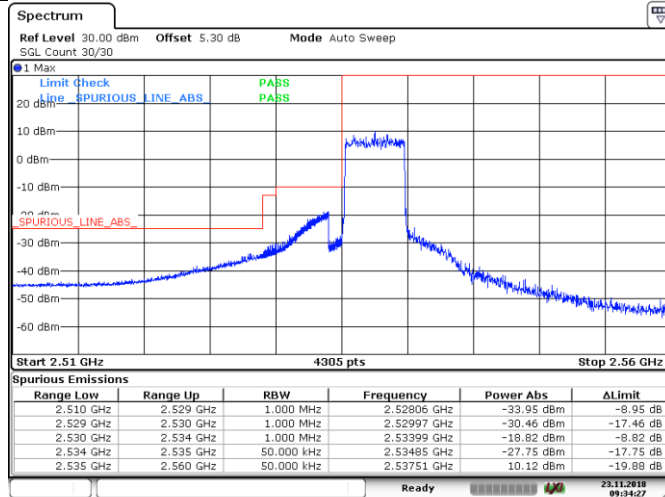
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Band41_5MHz_16QAM_40065_25RB#0

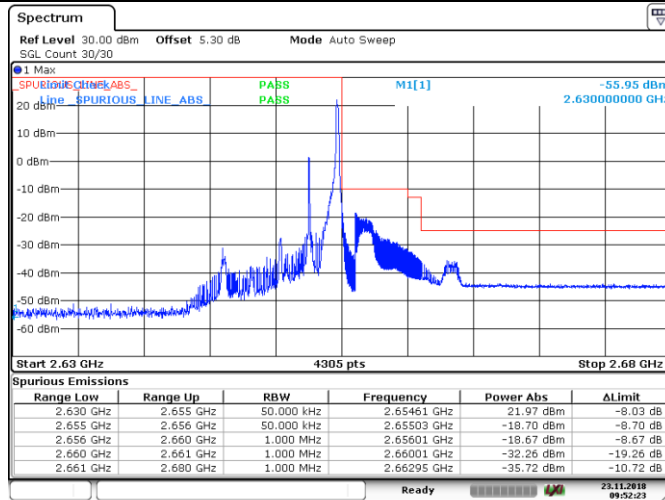
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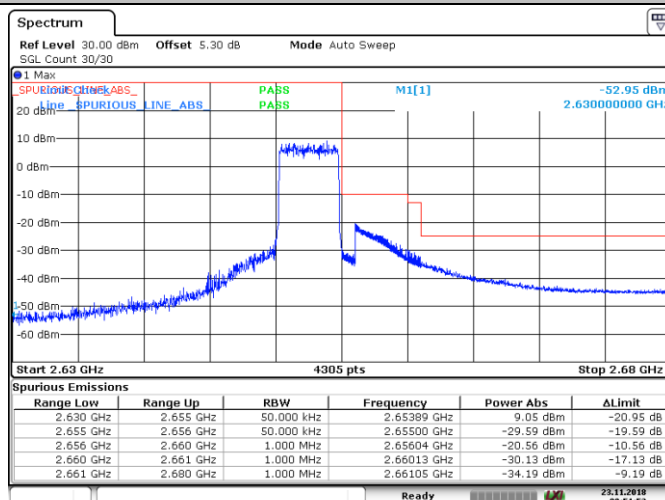
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Band41_5MHz_16QAM_41215_1RB#24



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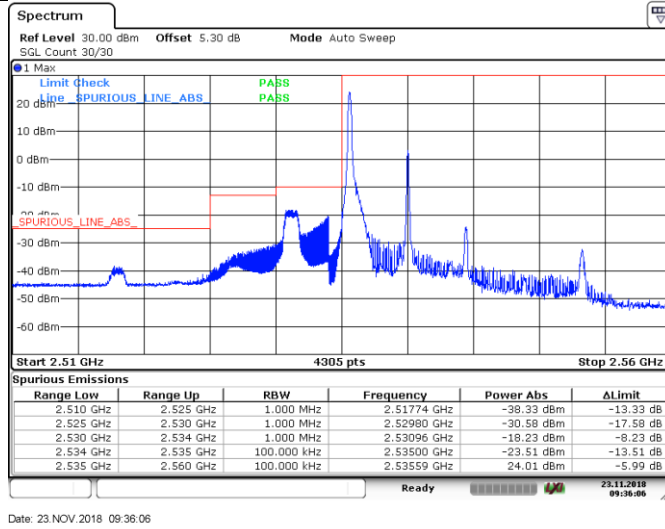


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Band41_10MHz_QPSK_40090_1RB#0

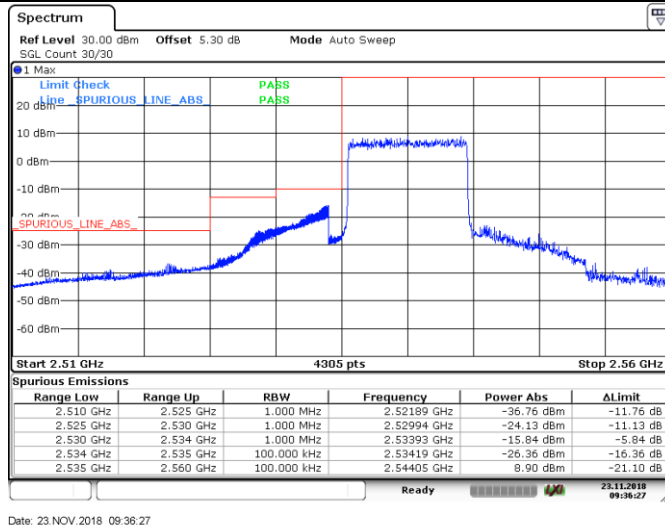
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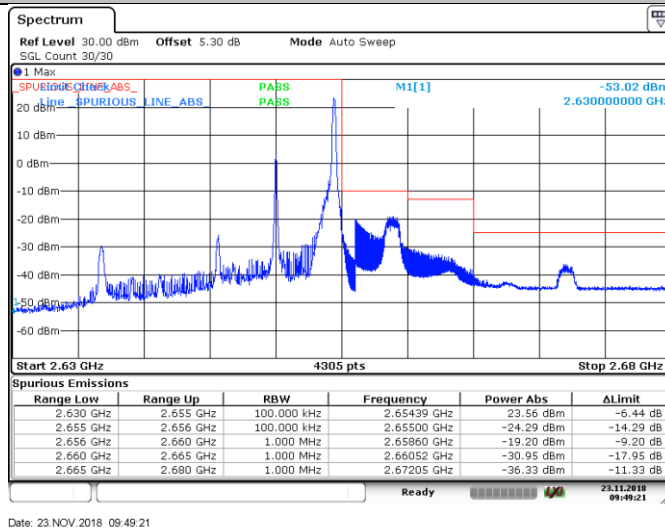
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Date: 23.NOV.2018 09:36:27

Band41_10MHz_QPSK_41190_1RB#49

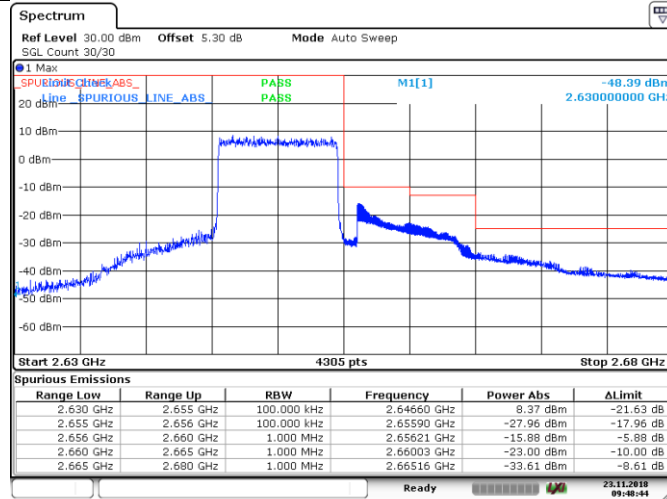


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Band41_10MHz_QPSK_41190_50RB#0

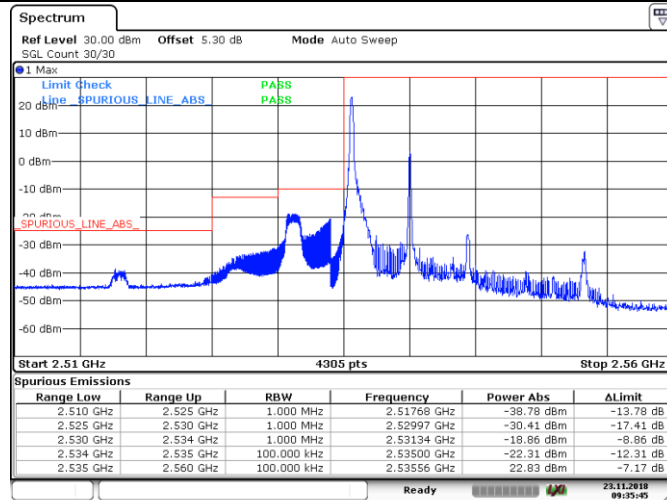
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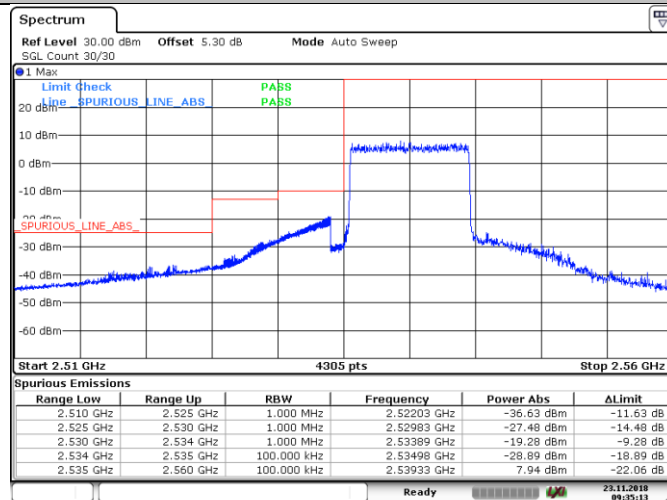
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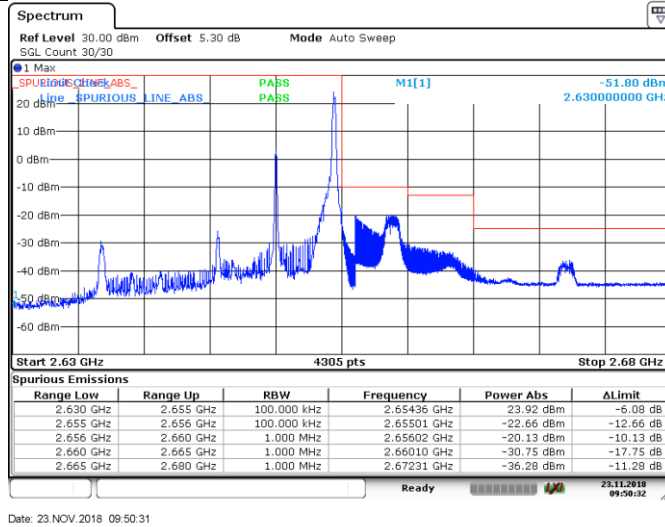


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Band41_10MHz_16QAM_41190_1RB#49

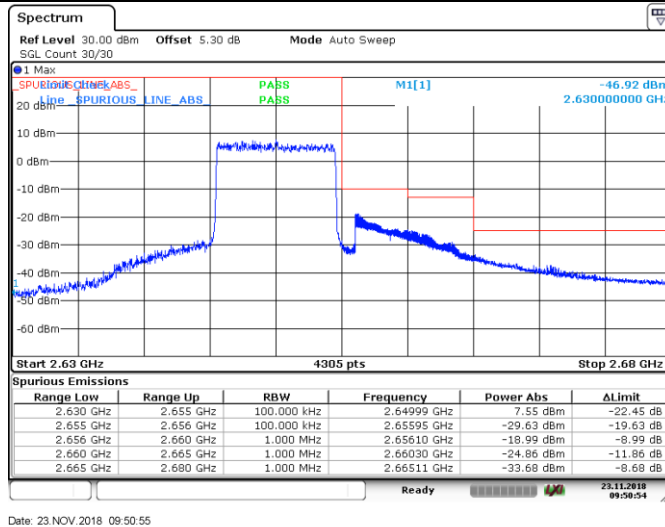
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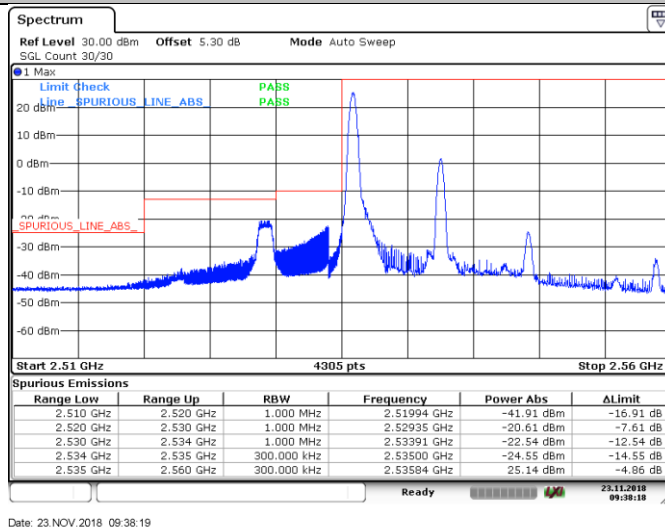
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Date: 23.NOV.2018 09:50:54

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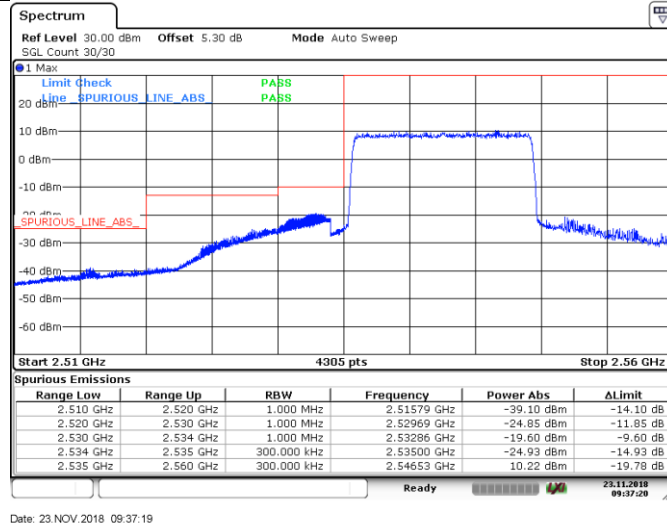


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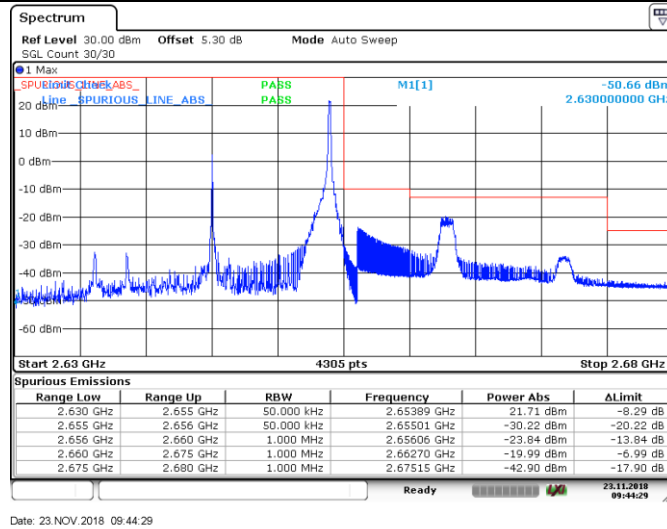
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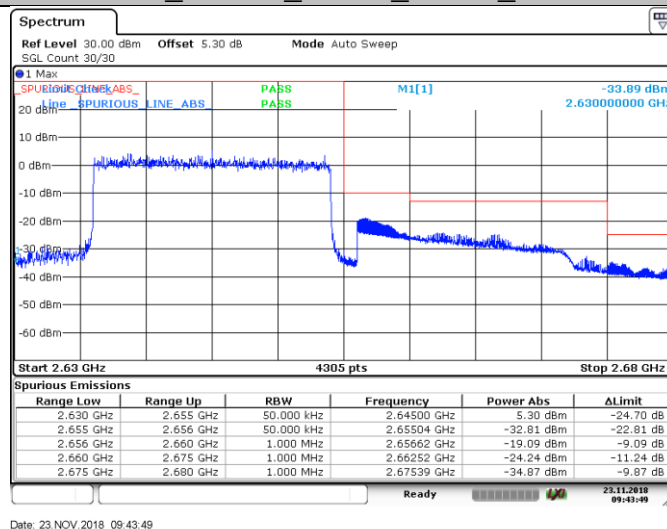
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Band41_15MHz_QPSK_41165_1RB#74



Date: 23.NOV.2018 09:44:29

Band41_15MHz_QPSK_41165_75RB#0

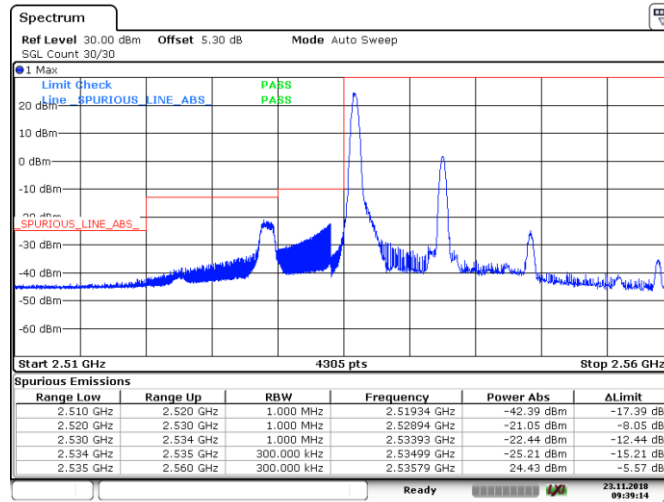


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Band41_15MHz_16QAM_40115_1RB#0

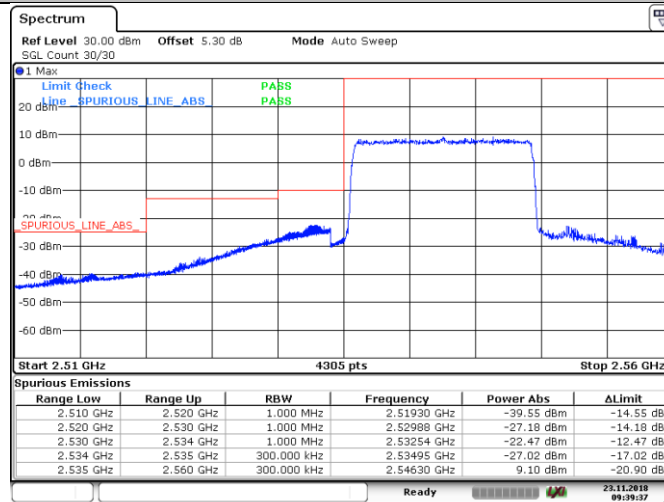
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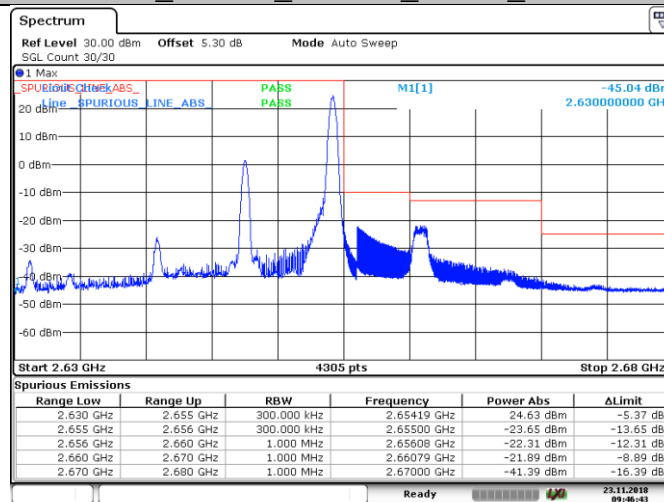
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Band41_15MHz_16QAM_40115_75RB#0



Date: 23.NOV.2018 09:39:38

Band41_15MHz_16QAM_41165_1RB#74



Date: 23.NOV.2018 09:46:44

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