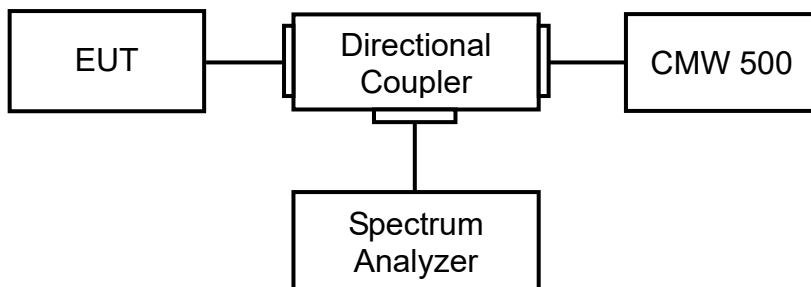


7. Spurious Emissions at Antenna Terminals

7.1. Test Setup



7.2. Test Procedure

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

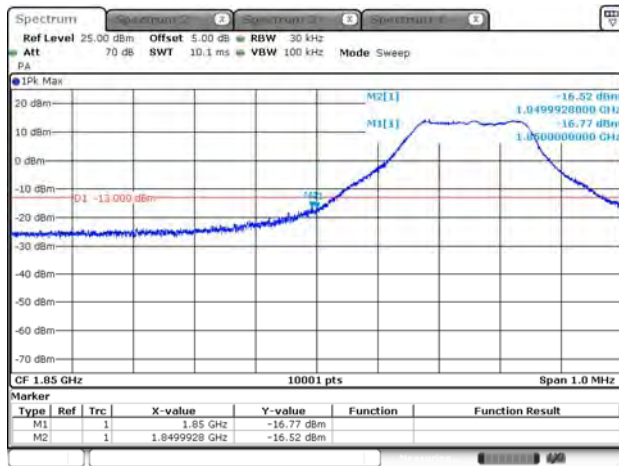
7.3. Test Method

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

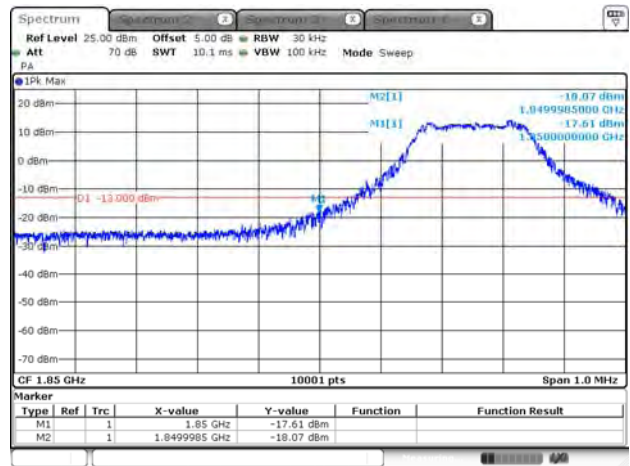
| | | | |
|--------------|---|-----------|--------|
| Product | ME910C1-WW | | |
| Test Item | Spurious Emissions at Antenna Terminals | | |
| Test Mode | Mode 1: LTE Band 2 | | |
| Date of Test | 2018/09/17 | Test Site | SR10-H |

Cat M1_Band 2_CH18607_1.4M_QPSK_1RB0



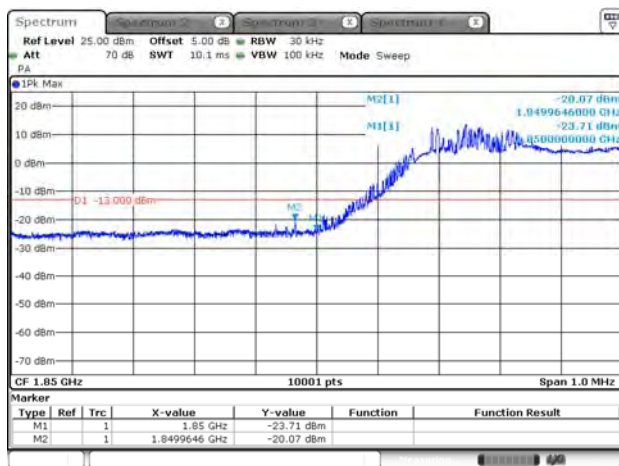
Date: 17.SEP.2018 10:27:36

Cat M1_Band 2_CH18607_1.4M_16-QAM_1RB0



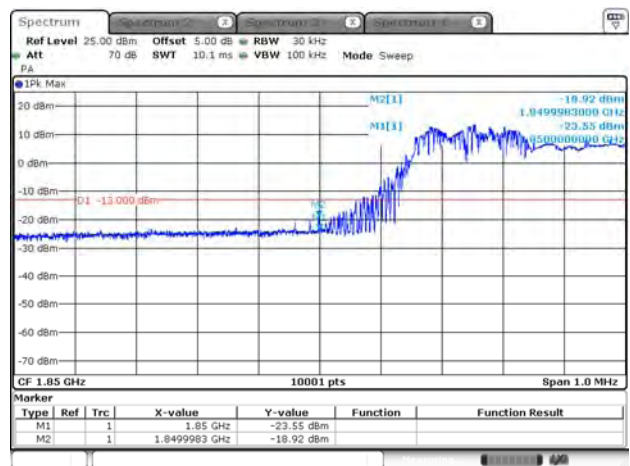
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Cat M1_Band 2_CH18607_1.4M_QPSK_6RB0



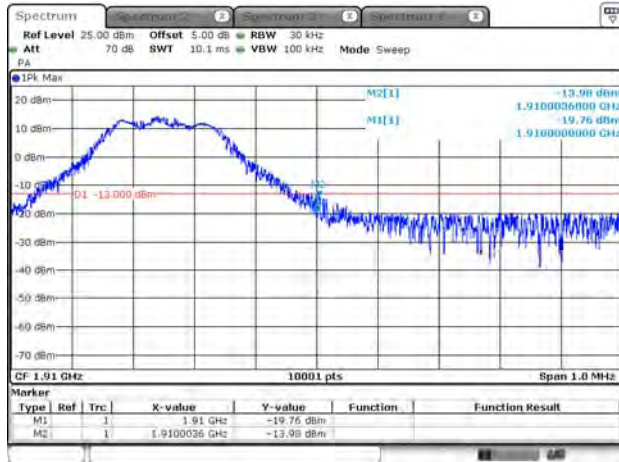
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Cat M1_Band 2_CH18607_1.4M_16-QAM_5RB1

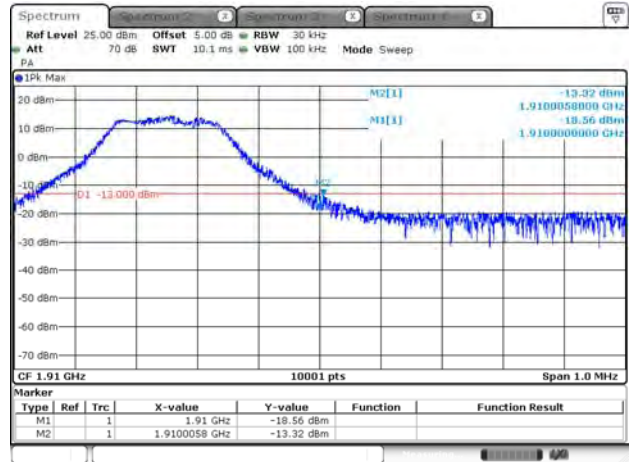


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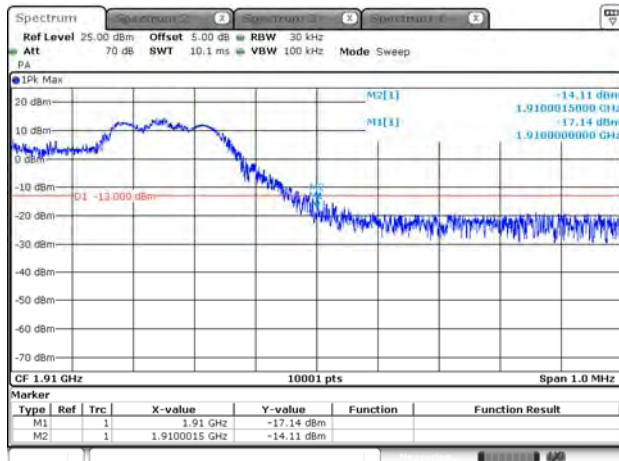
Cat M1_Band 2_CH19193_1.4M_QPSK_1RB0



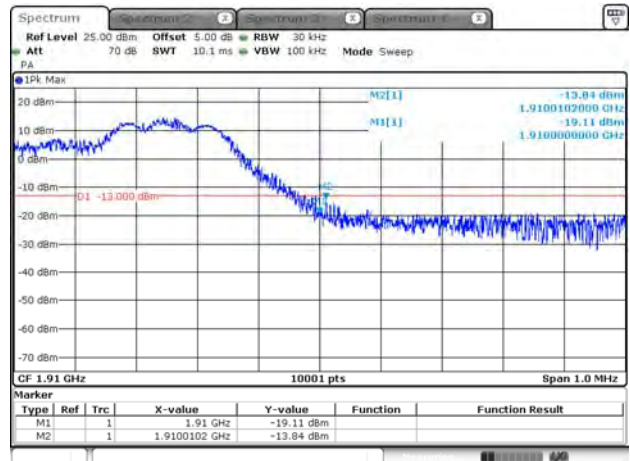
Cat M1_Band 2_CH19193_1.4M_16-QAM_1RB5



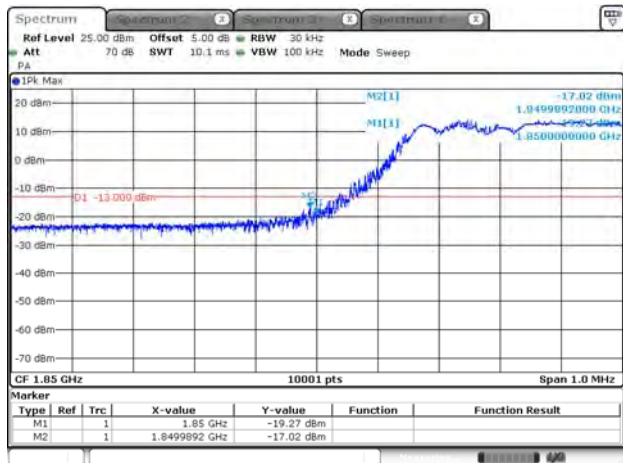
Cat M1_Band 2_CH19193_1.4M_QPSK_6RB0



Cat M1_Band 2_CH19193_1.4M_16-QAM_5RB1

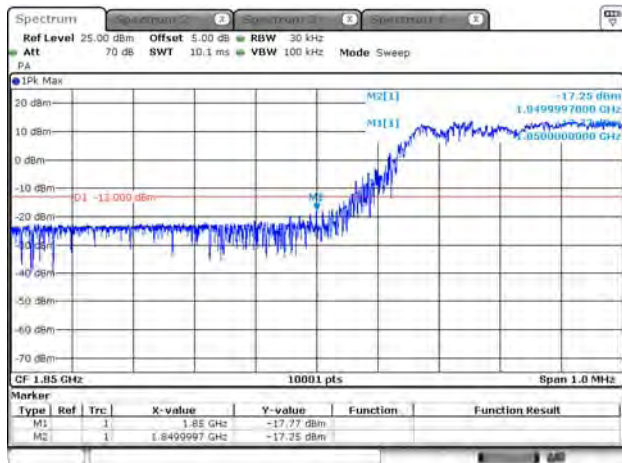


Cat M1_Band 2_CH18615_3M_QPSK_1RB0



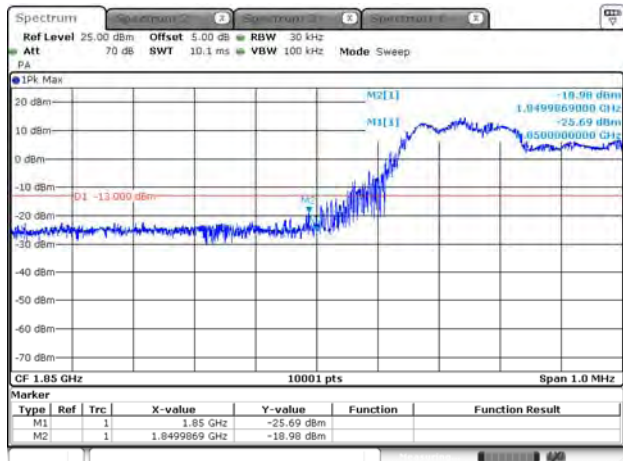
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Cat M1_Band 2_CH18615_3M_16-QAM_1RB0



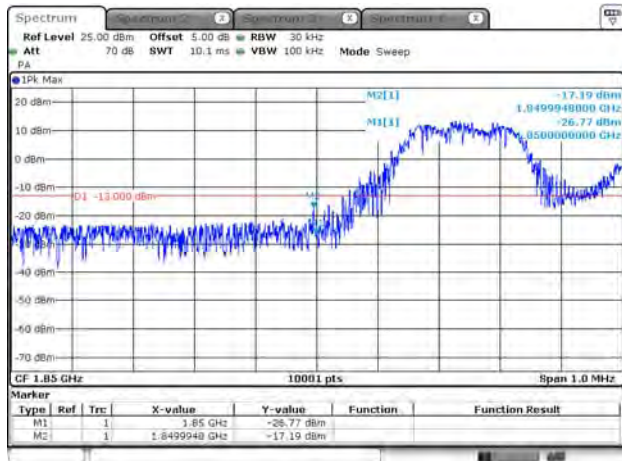
Date: 17_SEP_2018 11:48:23

Cat M1_Band 2_CH18615_3M_QPSK_6RB0



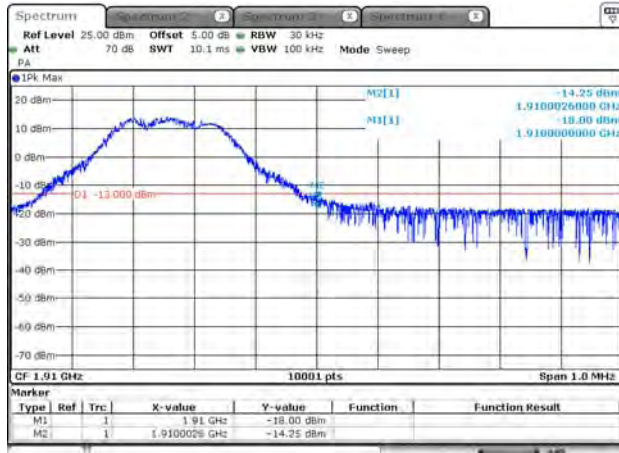
Date: 17_SEP_2018 11:47:34

Cat M1_Band 2_CH18615_3M_16-QAM_5RB1



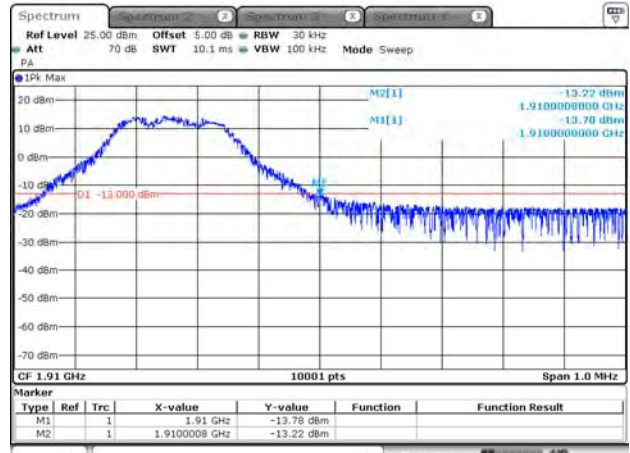
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Cat M1_Band 2_CH19185_3M_QPSK_1RB0



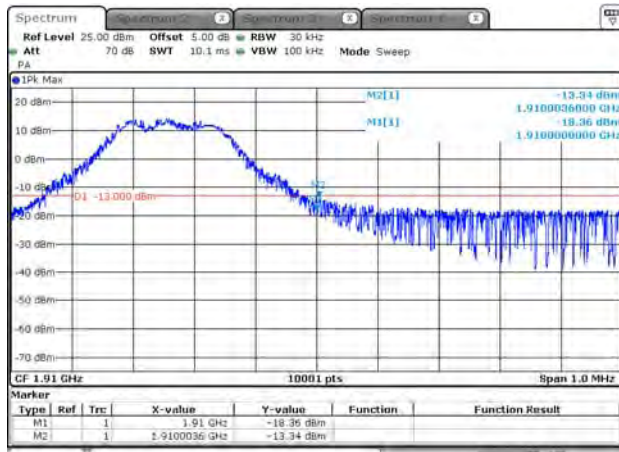
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Cat M1_Band 2_CH19185_3M_16-QAM_1RB5



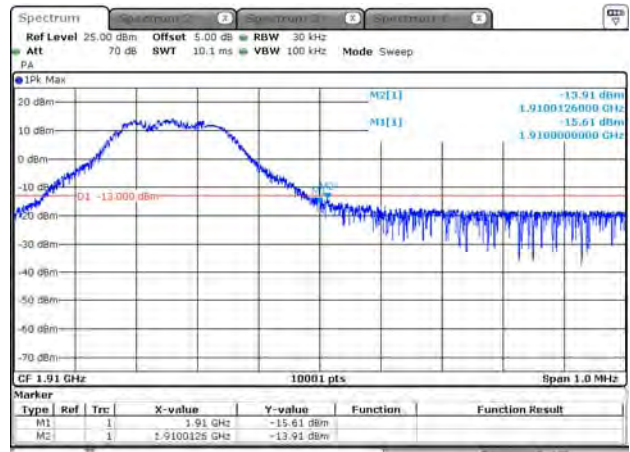
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Cat M1_Band 2_CH19185_3M_QPSK_6RB0



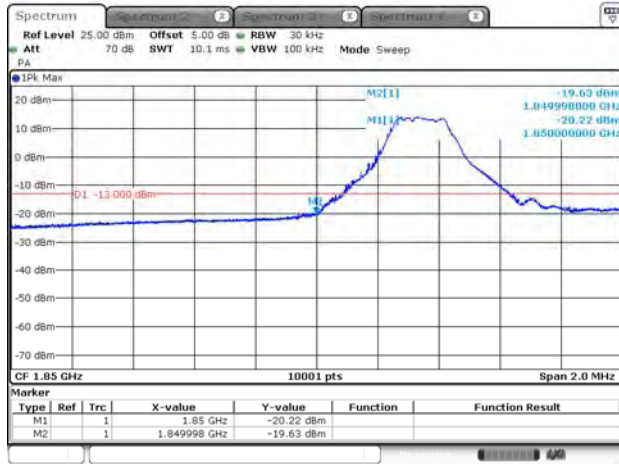
Date: 17 SEP 2018 11:24:10

Cat M1_Band 2_CH19185_3M_16-QAM_5RB1



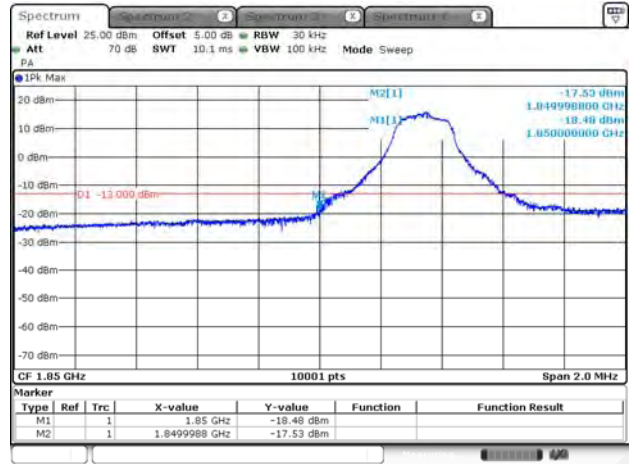
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Cat M1_Band 2_CH18625_5M_QPSK_1RB0



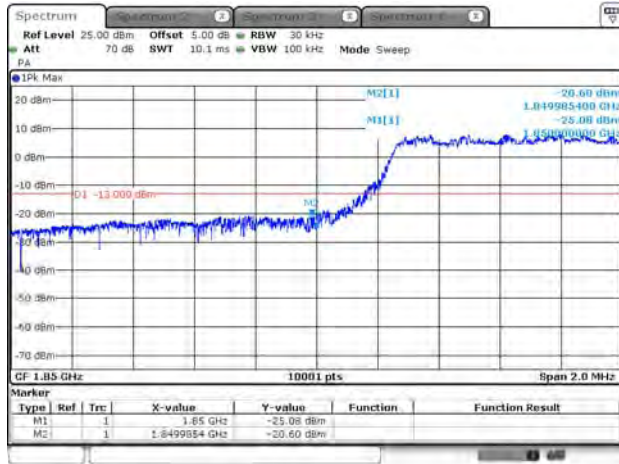
Date: 17 SEP 2018 13:49:03

Cat M1_Band 2_CH18625_5M_16-QAM_1RB0



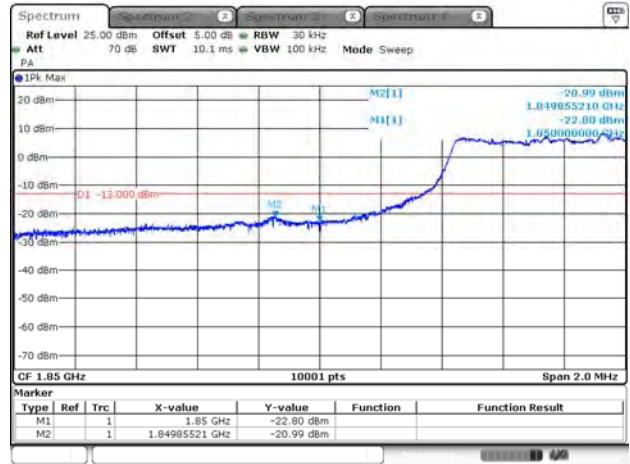
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Cat M1_Band 2_CH18625_5M_QPSK_6RB0



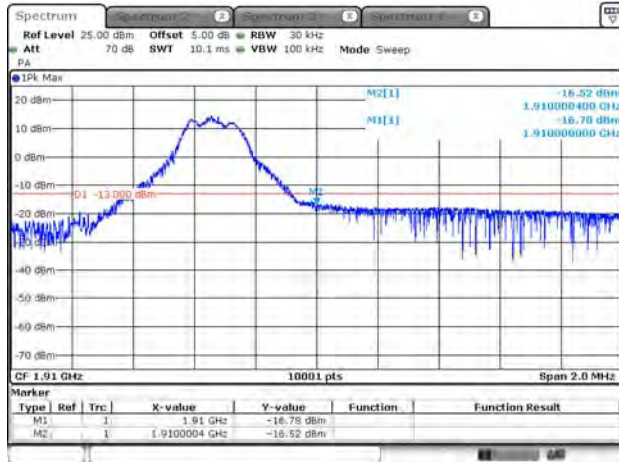
Date: 17 SEP 2018 14:23:57

Cat M1_Band 2_CH18625_5M_16-QAM_5RB1



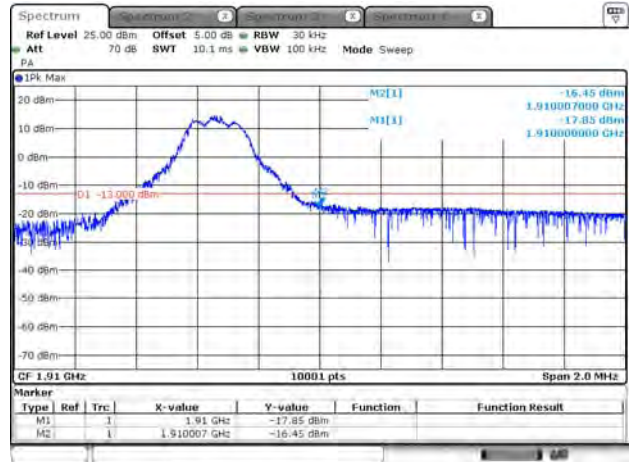
Date: 17 SEP 2018 12:12:50

Cat M1_Band 2_CH19175_5M_QPSK_1RB0



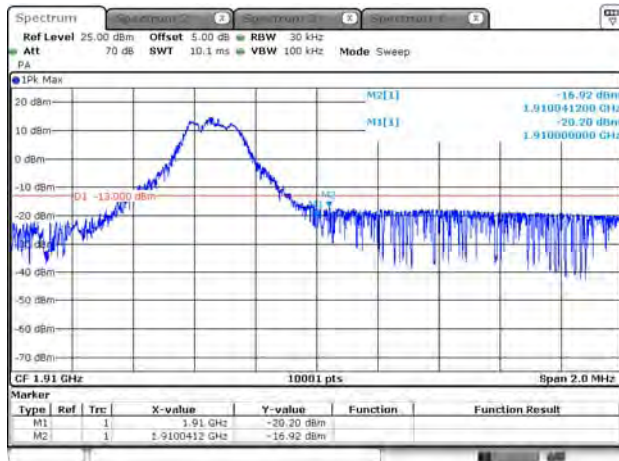
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Cat M1_Band 2_CH19175_5M_16-QAM_1RB5



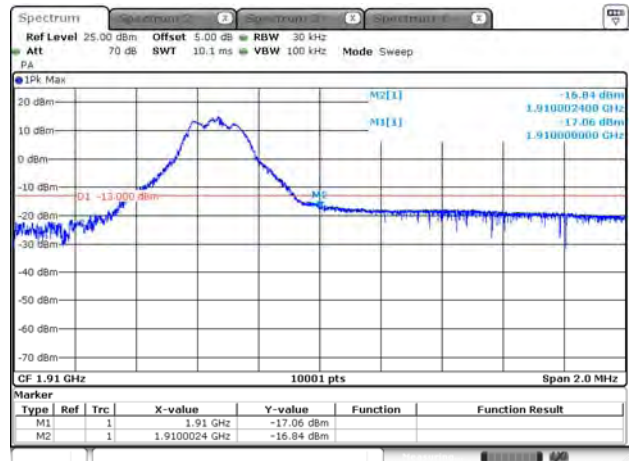
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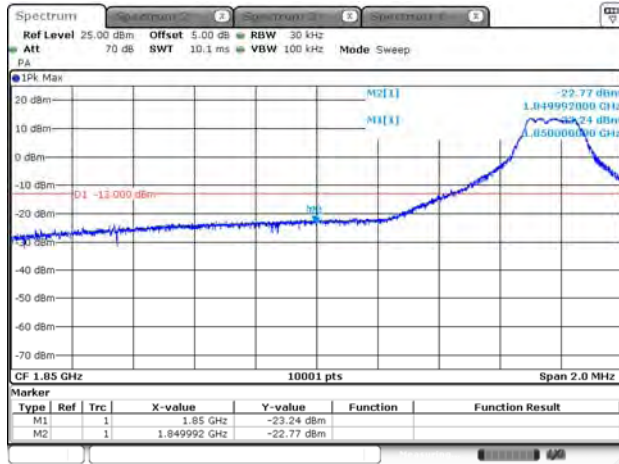
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Cat M1_Band 2_CH19175_5M_16-QAM_5RB1



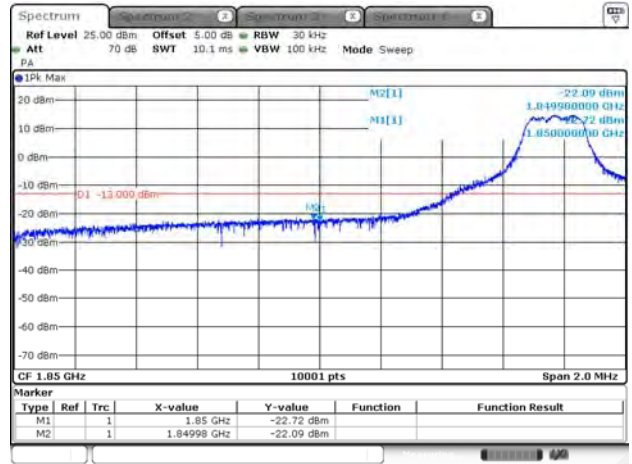
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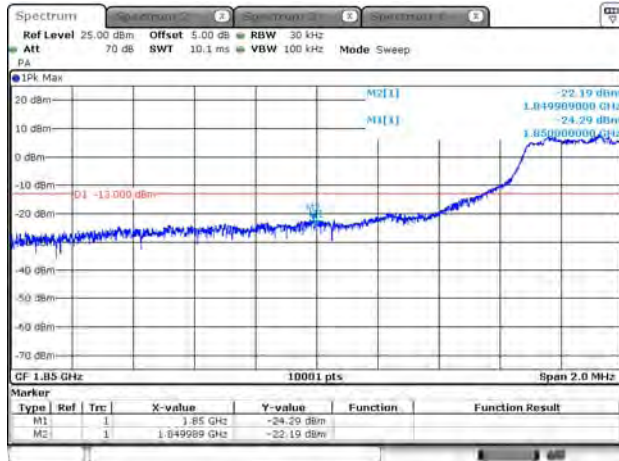
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Cat M1_Band 2_CH18650_10M_16-QAM_1RB0



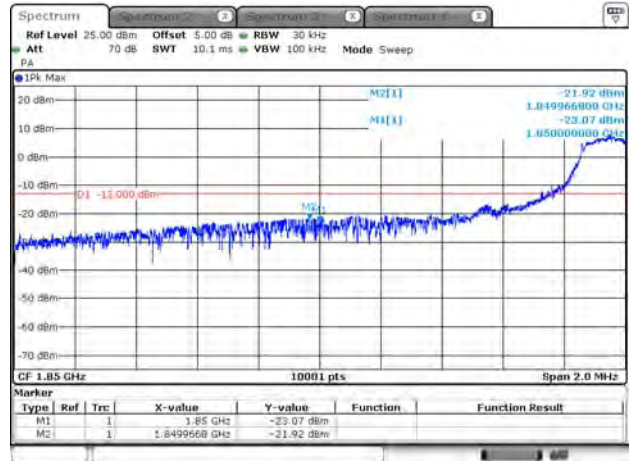
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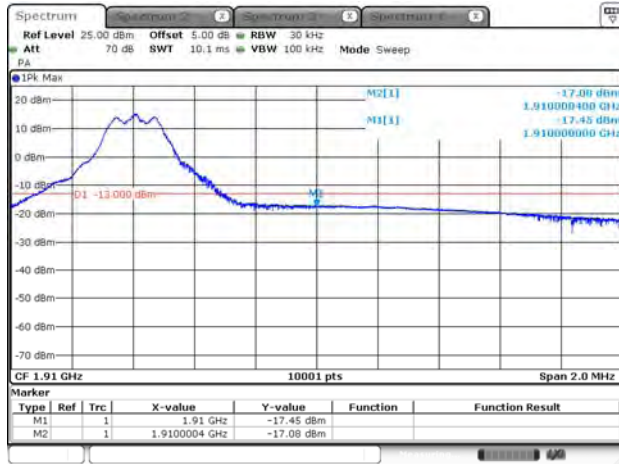
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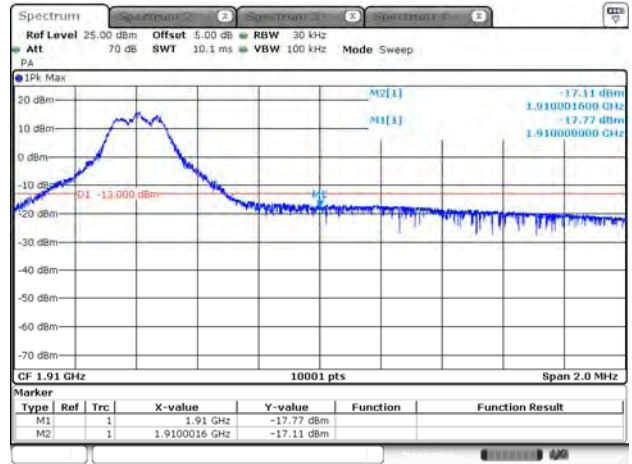
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Cat M1_Band 2_CH19150_10M_QPSK_1RB0



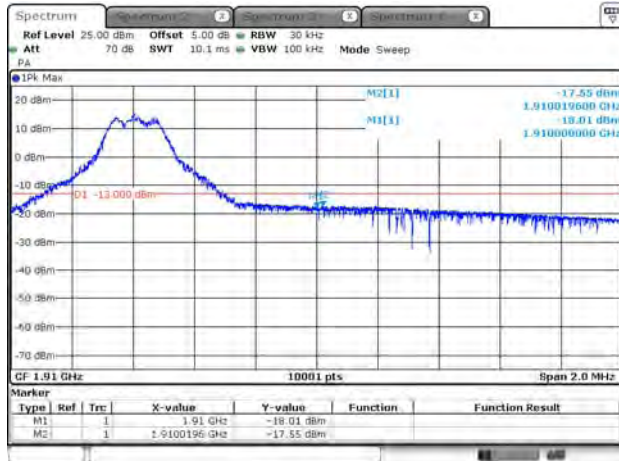
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Cat M1_Band 2_CH19150_10M_16-QAM_1RB5



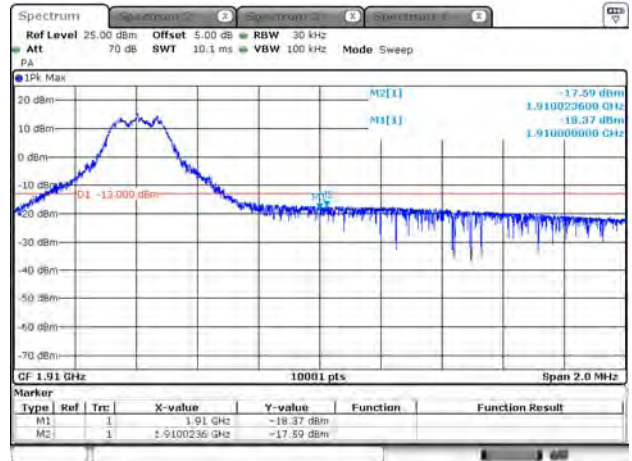
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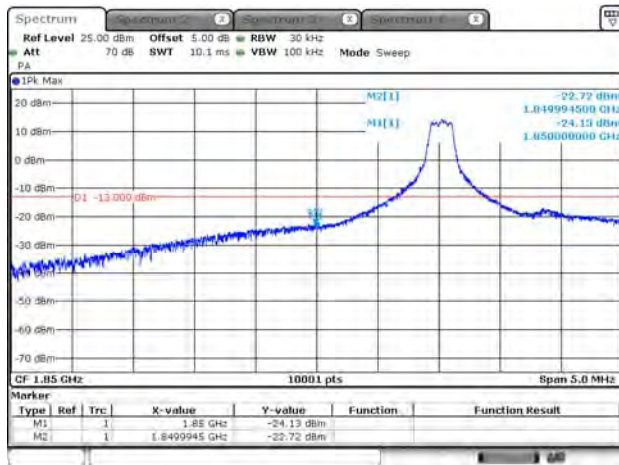
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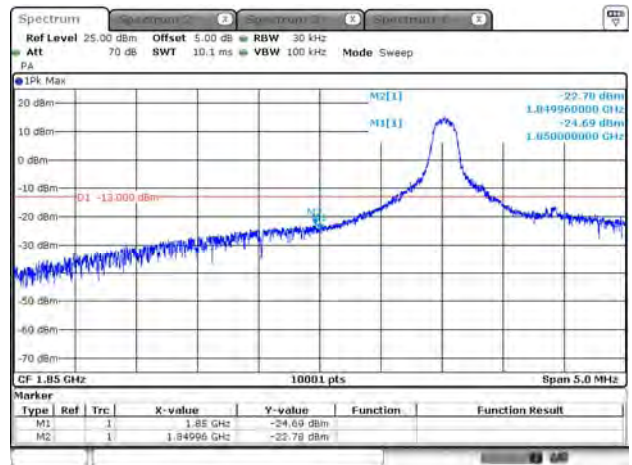


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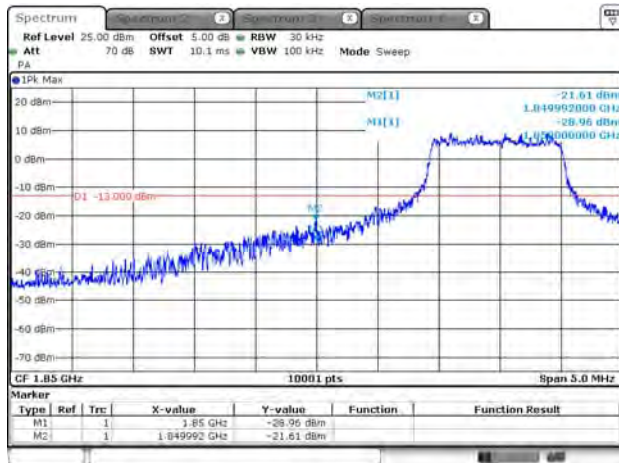
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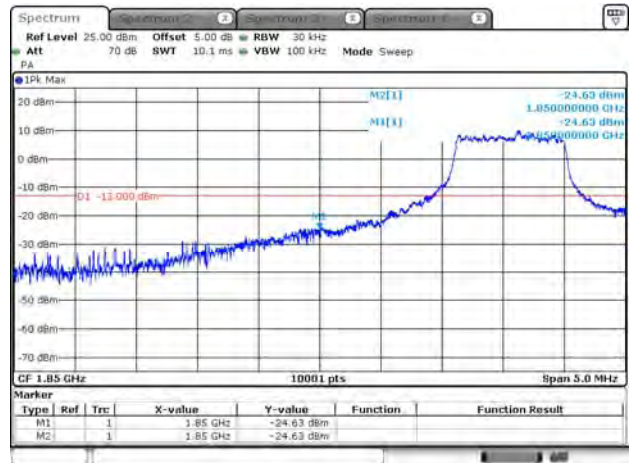
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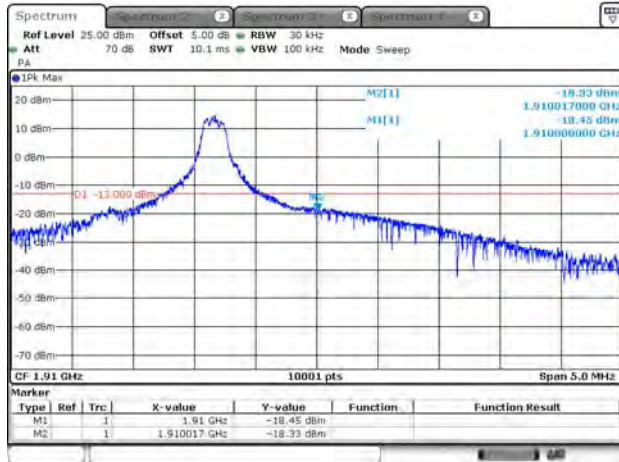
Cat M1_Band 2_CH18675_15M_QPSK_6RB0



Cat M1_Band 2_CH18675_15M_16-QAM_5RB1

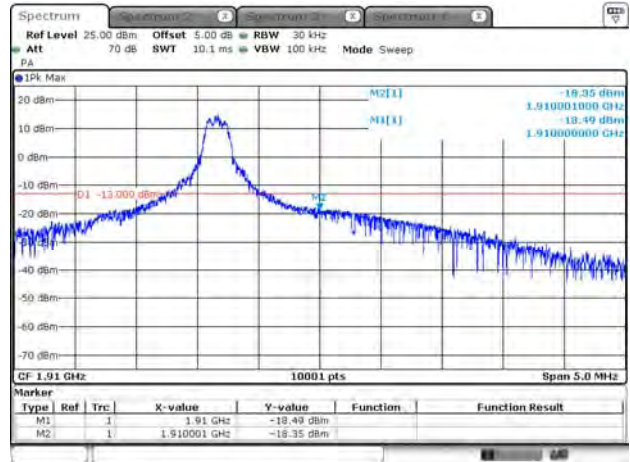


Cat M1_Band 2_CH19125_15M_QPSK_1RB0



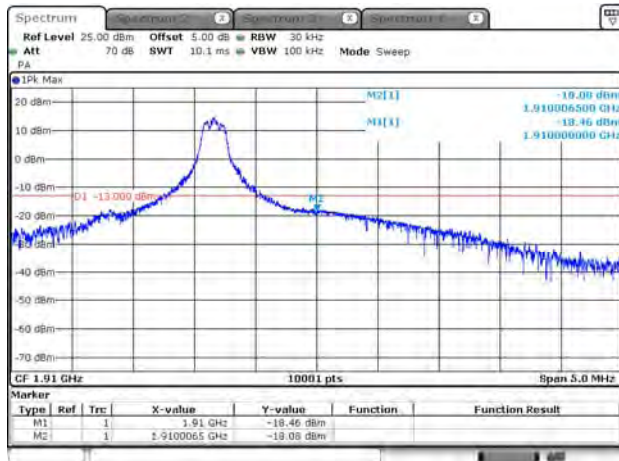
Date: 17 SEP 2018 16:11:48

Cat M1_Band 2_CH19125_15M_16-QAM_1RB5



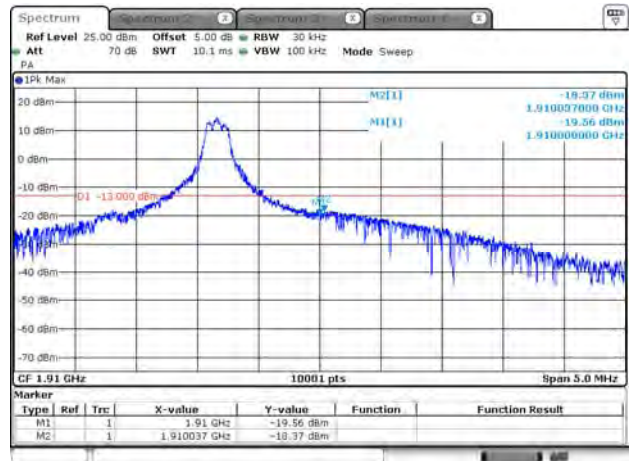
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Cat M1_Band 2_CH19125_15M_QPSK_6RB0



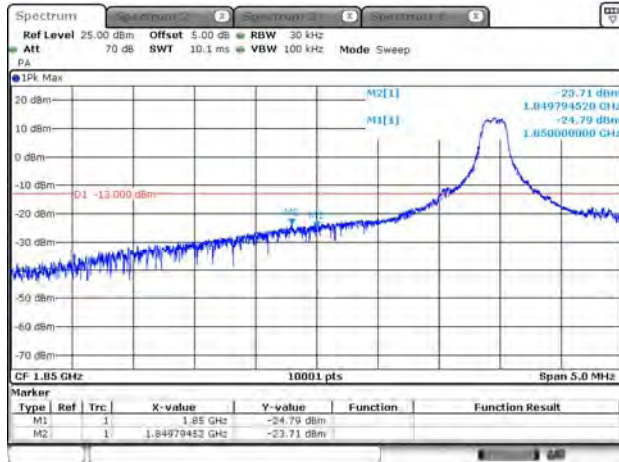
Date: 17 SEP 2018 16:23:00

Cat M1_Band 2_CH19125_15M_16-QAM_5RB1



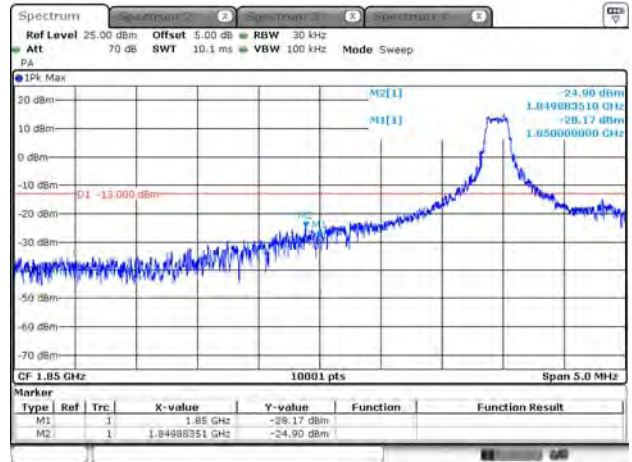
Date: 17 SEP 2018 16:24:20

Cat M1_Band 2_CH18700_20M_QPSK_1RB0



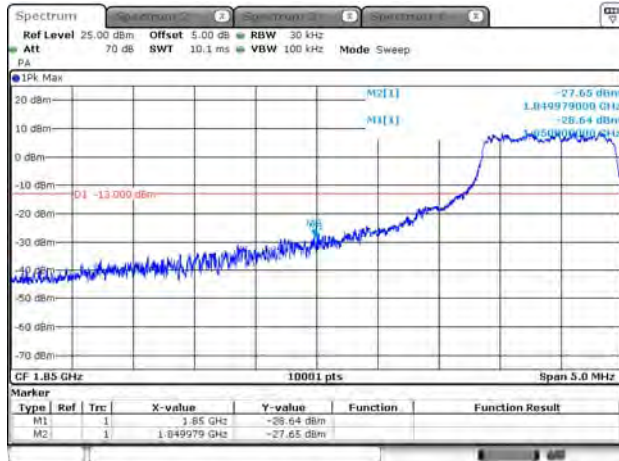
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Cat M1_Band 2_CH18700_20M_16-QAM_1RB0



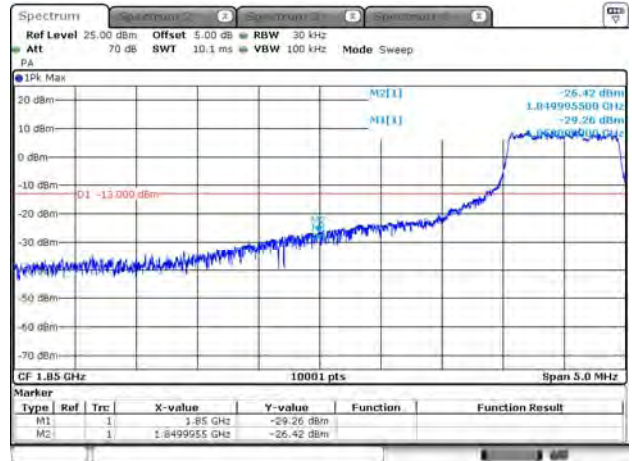
Date: 17 SEP 2018 17:02:10

Cat M1_Band 2_CH18700_20M_QPSK_6RB0



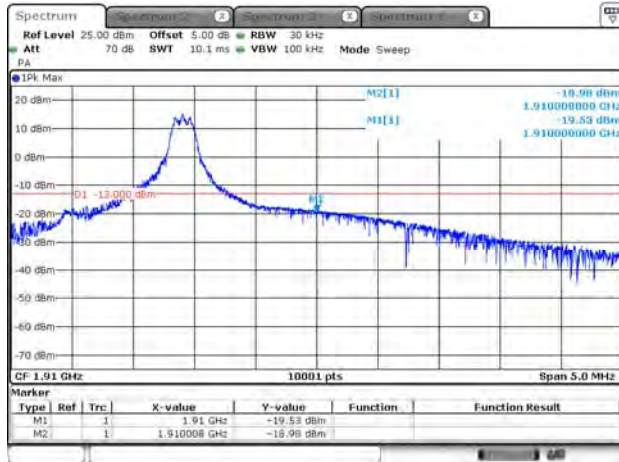
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Cat M1_Band 2_CH18700_20M_16-QAM_5RB1



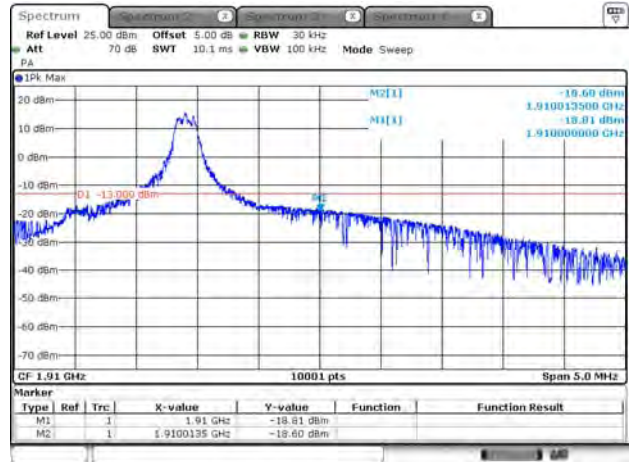
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Cat M1_Band 2_CH19100_20M_QPSK_1RB0



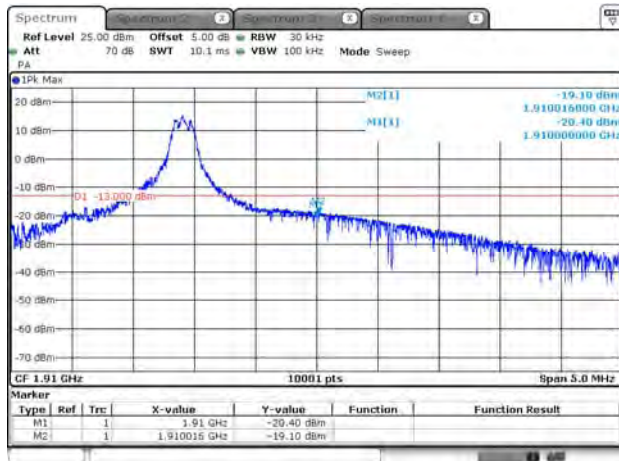
Date: 17 SEP 2018 16:37:40

Cat M1_Band 2_CH19100_20M_16-QAM_1RB5



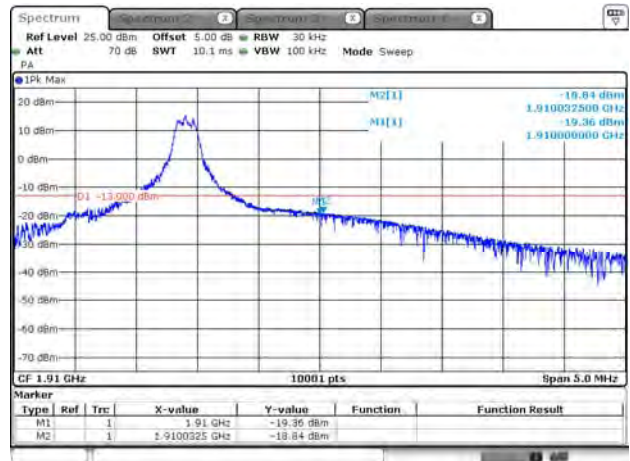
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Cat M1_Band 2_CH19100_20M_QPSK_6RB0



Date: 17 SEP 2018 16:35:26

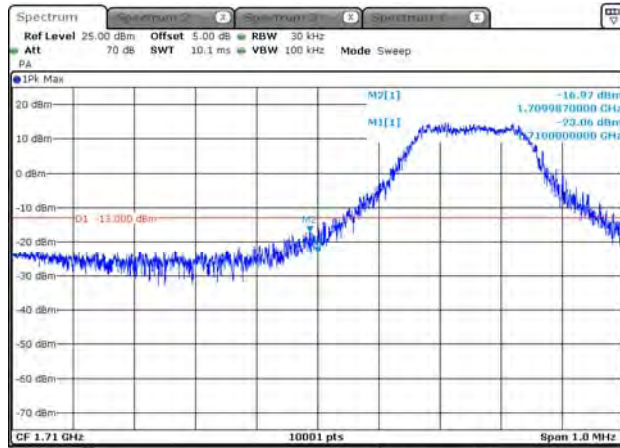
Cat M1_Band 2_CH19100_20M_16-QAM_5RB1



Date: 17 SEP 2018 16:31:40

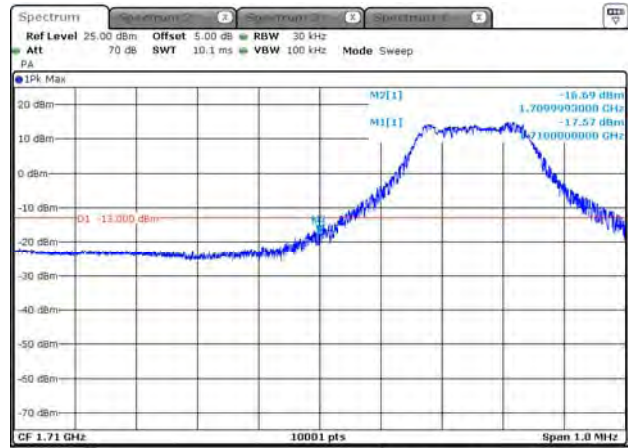
| | | | |
|--------------|---|-----------|--------|
| Product | ME910C1-WW | | |
| Test Item | Spurious Emissions at Antenna Terminals | | |
| Test Mode | Mode 2: LTE Band 4 | | |
| Date of Test | 2018/09/17 | Test Site | SR10-H |

Cat M1_Band 4_CH19957_1.4M_QPSK_1RB0



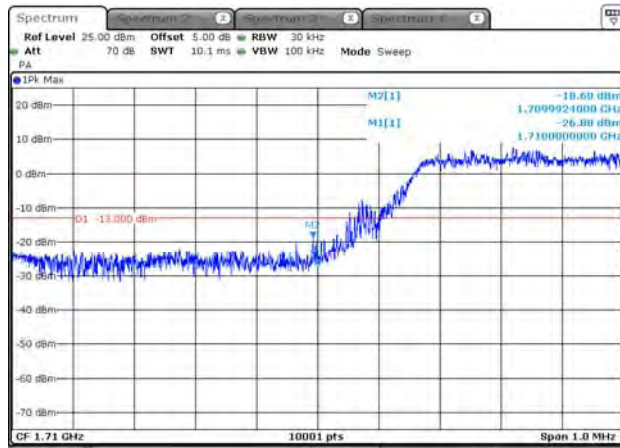
Date: 18 SEP 2018 10:11:26

Cat M1_Band 4_CH19957_1.4M_16-QAM_1RB0



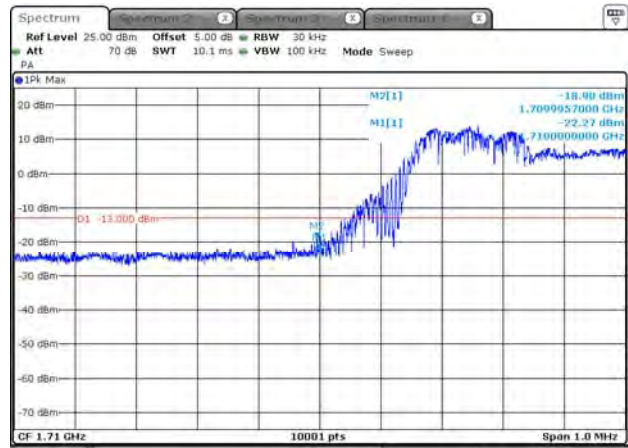
Date: 18 SEP 2018 10:50:01

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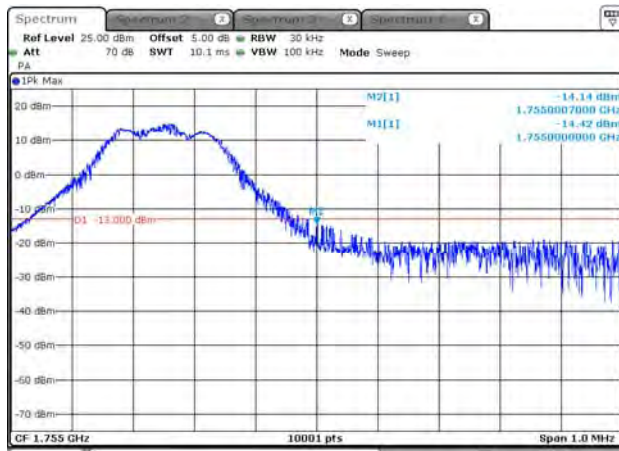
Date: 18 SEP 2018 10:39:56

Cat M1_Band 4_CH19957_1.4M_16-QAM_5RB1



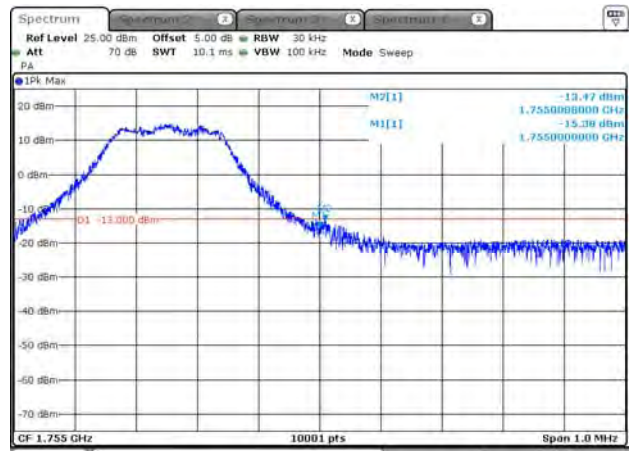
Date: 18 SEP 2018 10:44:05

Cat M1_Band 4_CH20393_1.4M_QPSK_1RB0



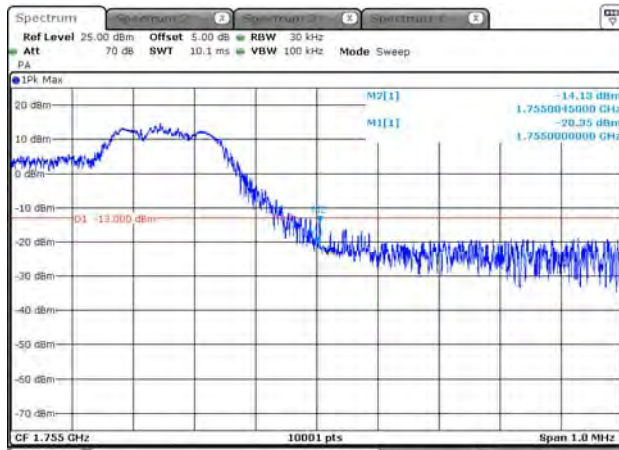
Date: 18 SEP 2018 11:26:15

Cat M1_Band 4_CH20393_1.4M_16-QAM_1RB5



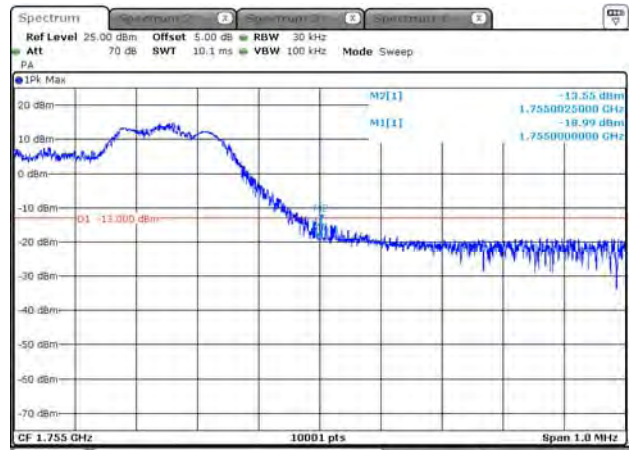
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Cat M1_Band 4_CH20393_1.4M_QPSK_6RB0



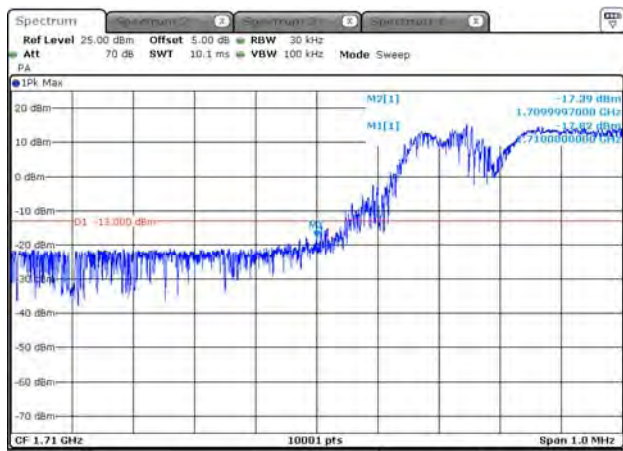
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Cat M1_Band 4_CH20393_1.4M_16-QAM_5RB1



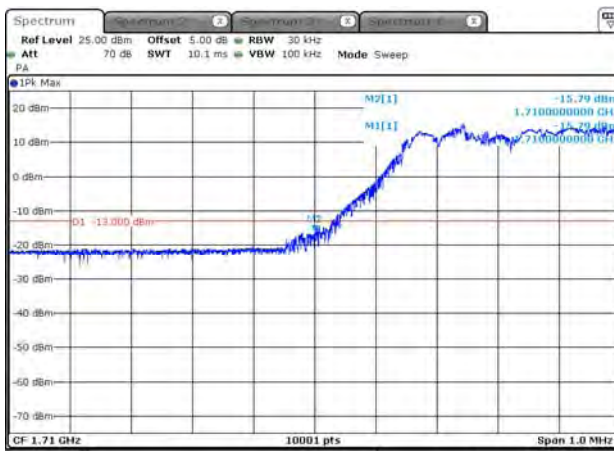
Date: 18 SEP 2018 11:15:08

Cat M1_Band 4_CH19965_3M_QPSK_1RB0



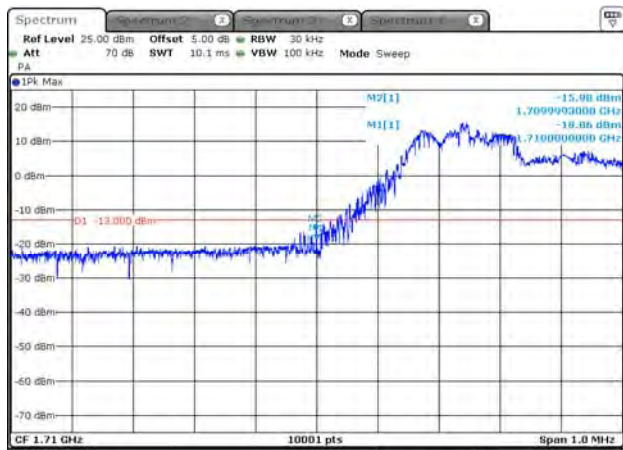
Date: 18 SEP 2018 11:44:34

Cat M1_Band 4_CH19965_3M_16-QAM_1RB0



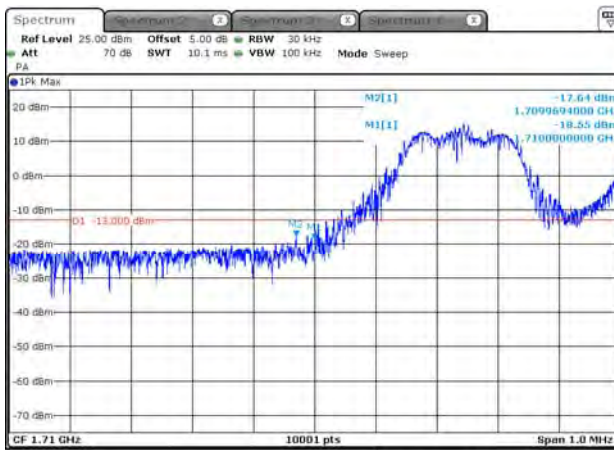
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Cat M1_Band 4_CH19965_3M_QPSK_6RB0



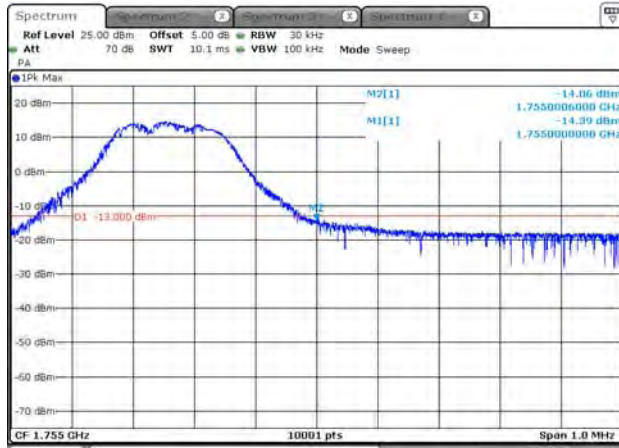
Date: 18 SEP 2018 11:48:10

Cat M1_Band 4_CH19965_3M_16-QAM_5RB1



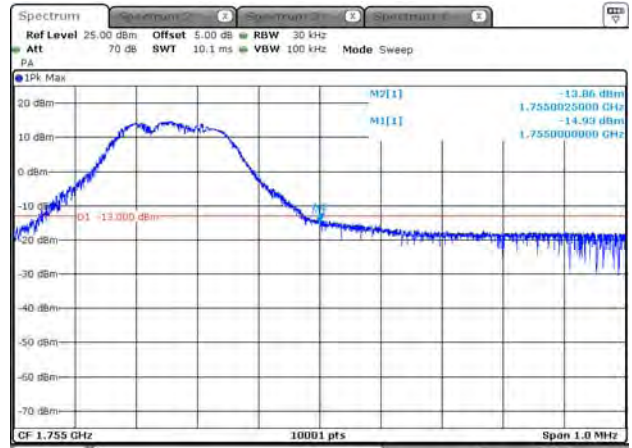
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Cat M1_Band 4_CH20385_3M_QPSK_1RB0



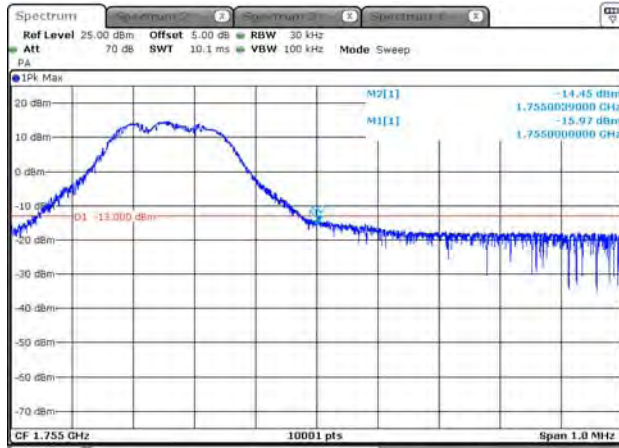
Date: 18 SEP 2018 12:13:10

Cat M1_Band 4_CH20385_3M_16-QAM_1RB5



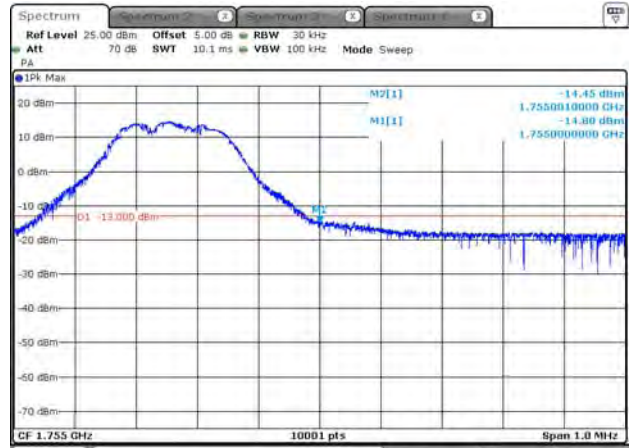
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Cat M1_Band 4_CH20385_3M_QPSK_6RB0



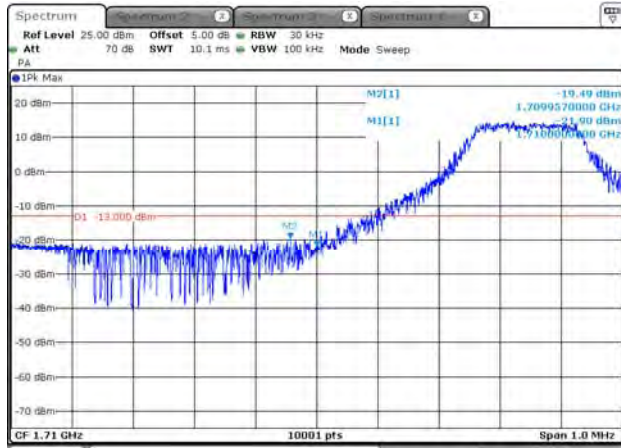
Date: 18 SEP 2018 12:11:48

Cat M1_Band 4_CH20385_3M_16-QAM_5RB1



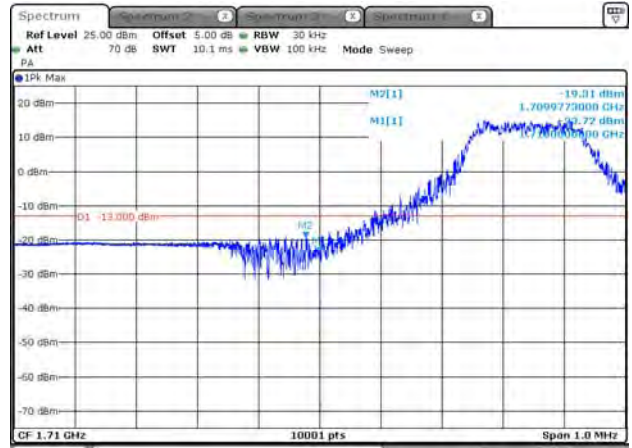
Date: 18 SEP 2018 12:01:41

Cat M1_Band 4_CH19975_5M_QPSK_1RB0



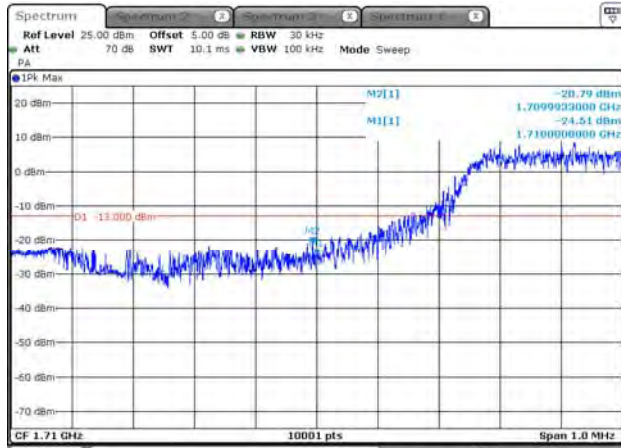
Date: 18 SEP 2018 14:02:15

Cat M1_Band 4_CH19975_5M_16-QAM_1RB0



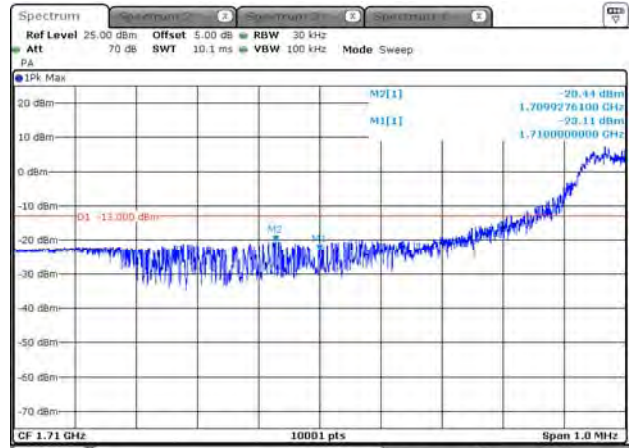
Date: 18 SEP 2018 13:54:15

Cat M1_Band 4_CH19975_5M_QPSK_6RB0

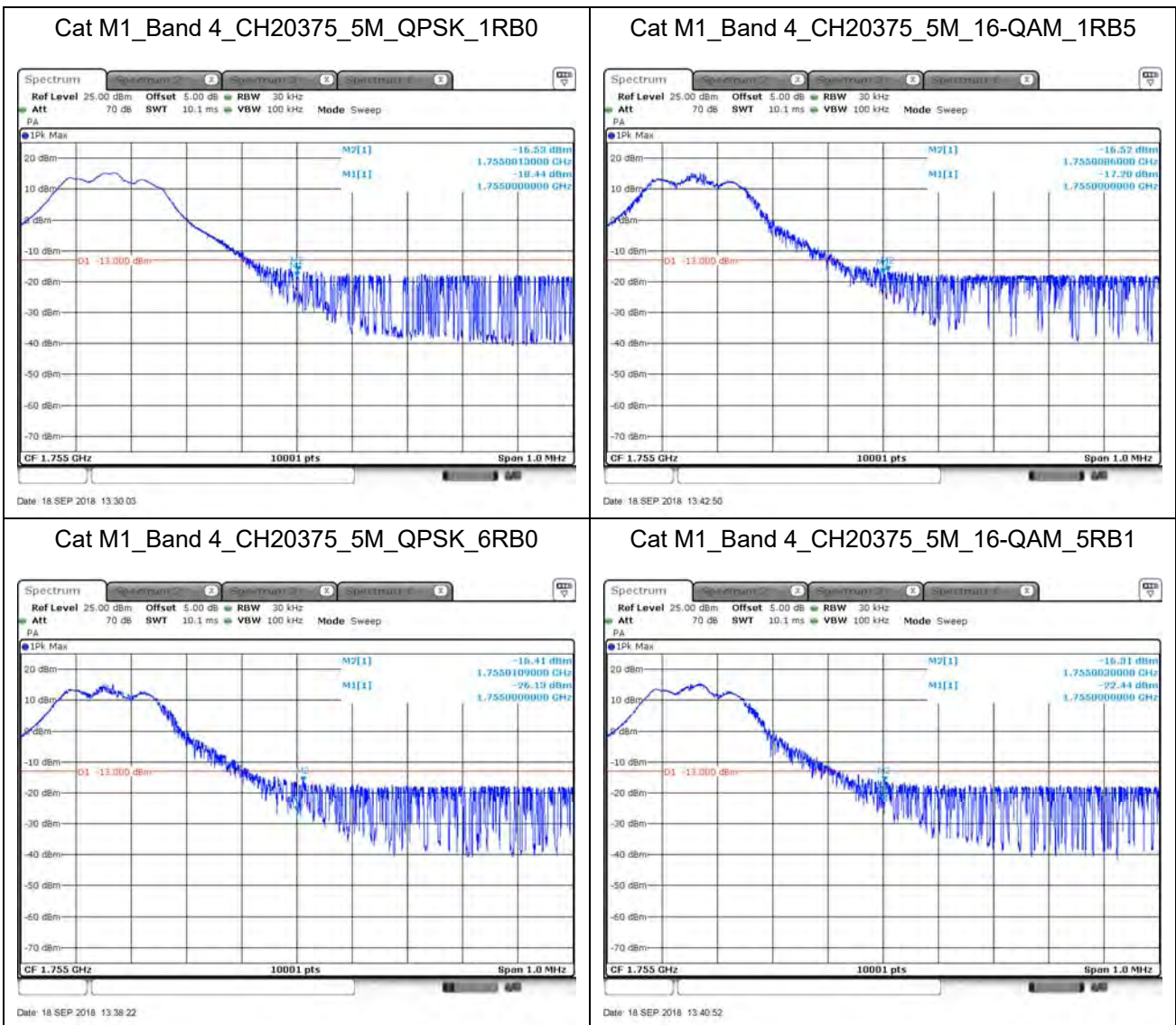


Date: 18 SEP 2018 14:00:49

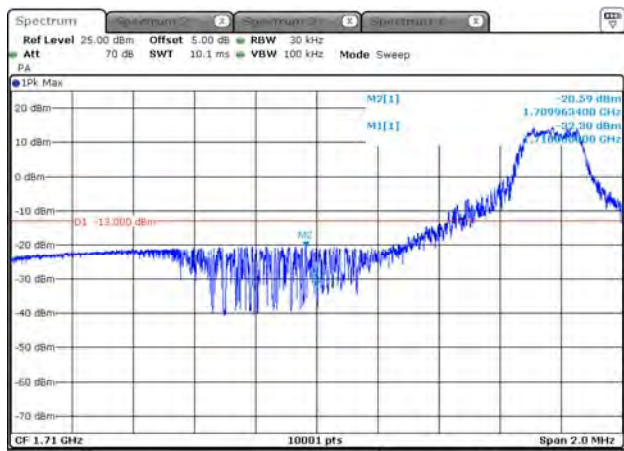
Cat M1_Band 4_CH19975_5M_16-QAM_5RB1



Date: 18 SEP 2018 13:57:10

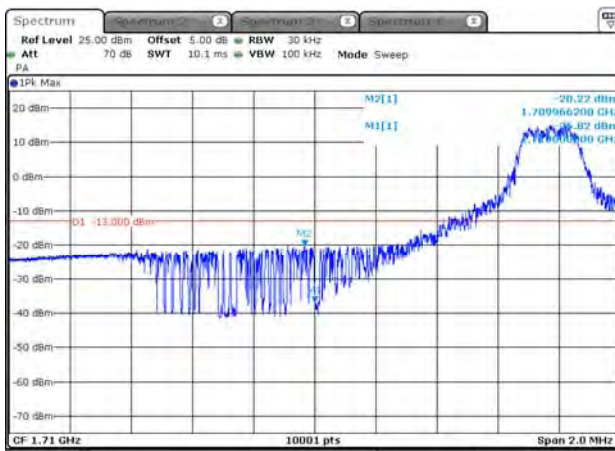


Cat M1_Band 4_CH20000_10M_QPSK_1RB0



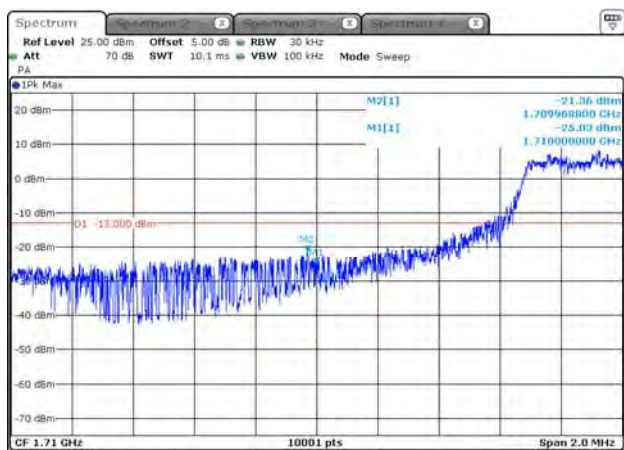
Date: 18 SEP 2018 14:09:47

Cat M1_Band 4_CH20000_10M_16-QAM_1RB0



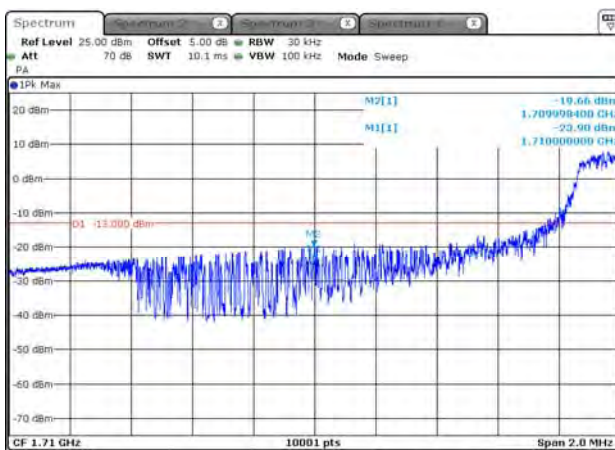
Date: 18 SEP 2018 14:24:36

Cat M1_Band 4_CH20000_10M_QPSK_6RB0



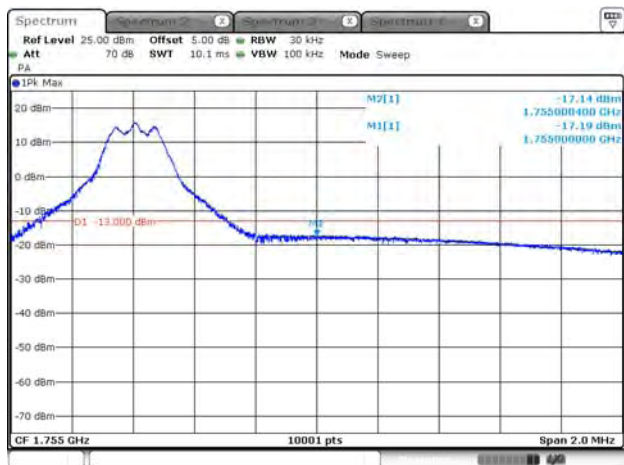
Date: 18 SEP 2018 14:18:54

Cat M1_Band 4_CH20000_10M_16-QAM_5RB1



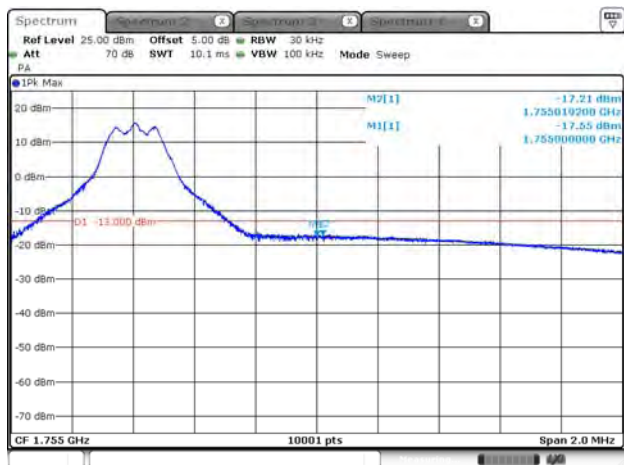
Date: 18 SEP 2018 14:20:58

Cat M1_Band 4_CH20350_10M_QPSK_1RB0



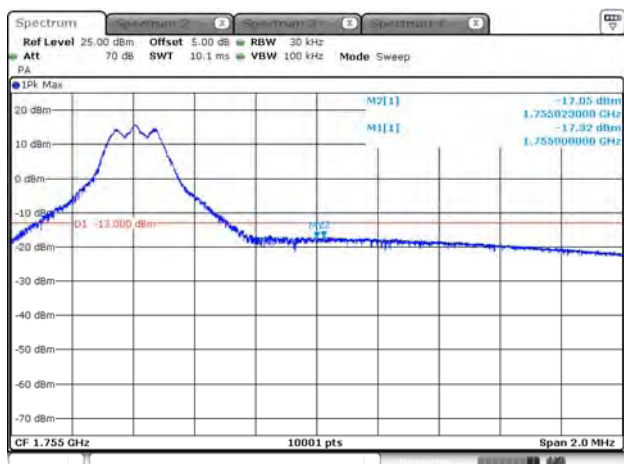
Date: 18 SEP 2018 14:48:13

Cat M1_Band 4_CH20350_10M_16-QAM_1RB5



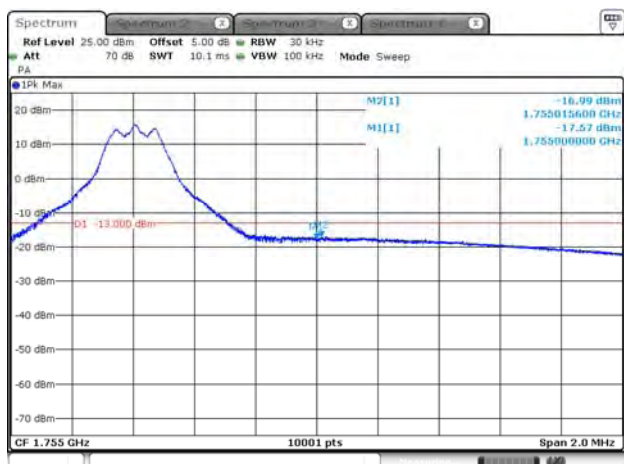
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Cat M1_Band 4_CH20350_10M_QPSK_6RB0



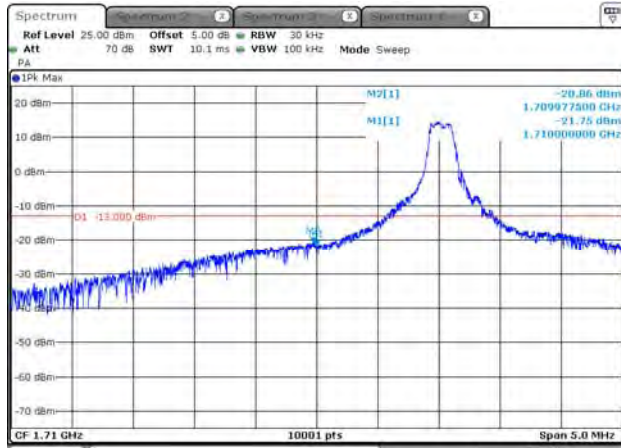
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Cat M1_Band 4_CH20350_10M_16-QAM_5RB1



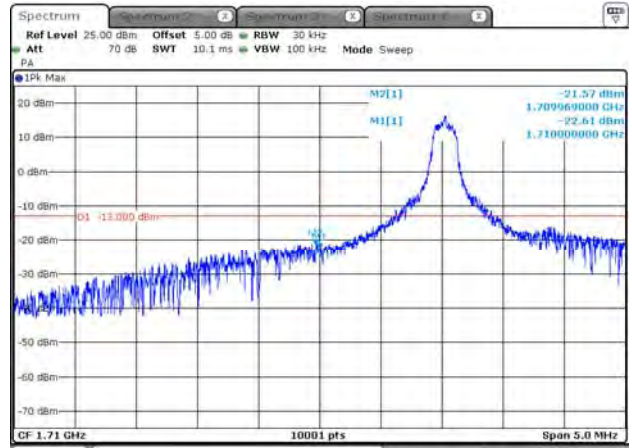
Date: 18 SEP 2018 14:43:00

Cat M1_Band 4_CH20025_15M_QPSK_1RB0



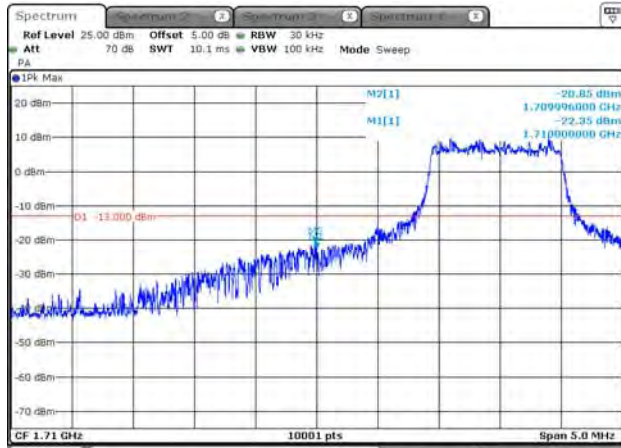
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Cat M1_Band 4_CH20025_15M_16-QAM_1RB0



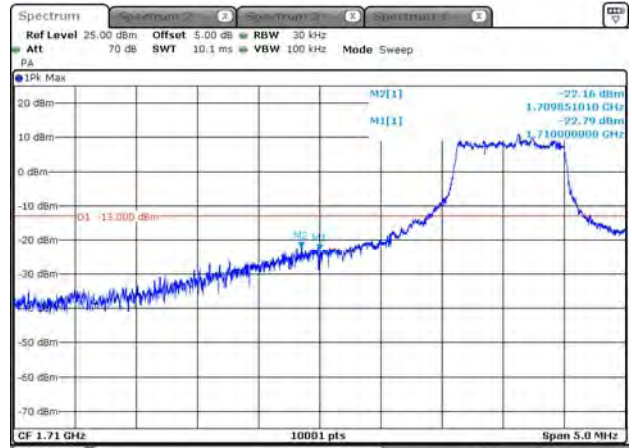
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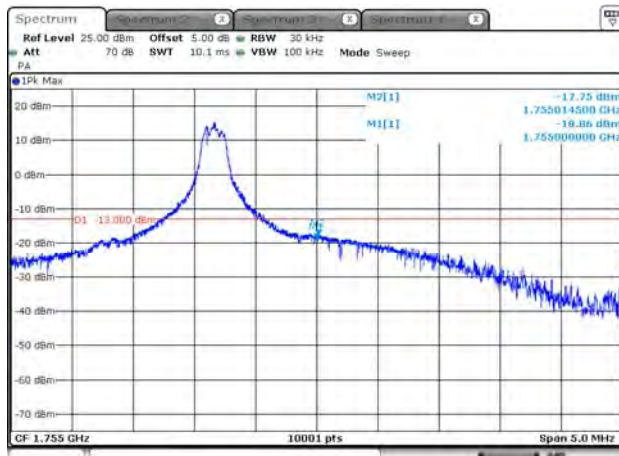
Date: 18 SEP 2018 15:56:36

Cat M1_Band 4_CH20025_15M_16-QAM_5RB1



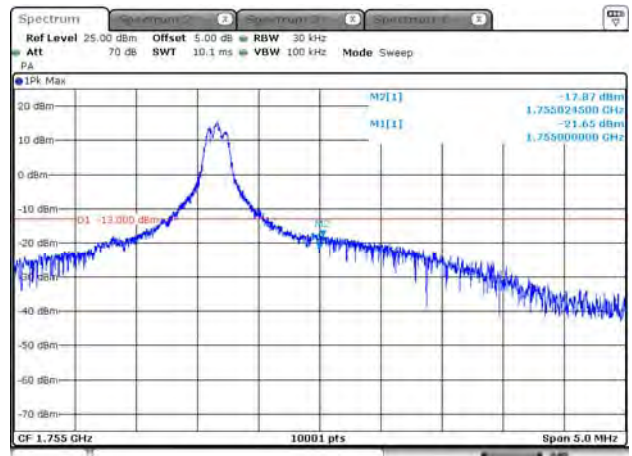
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Cat M1_Band 4_CH20325_15M_QPSK_1RB0



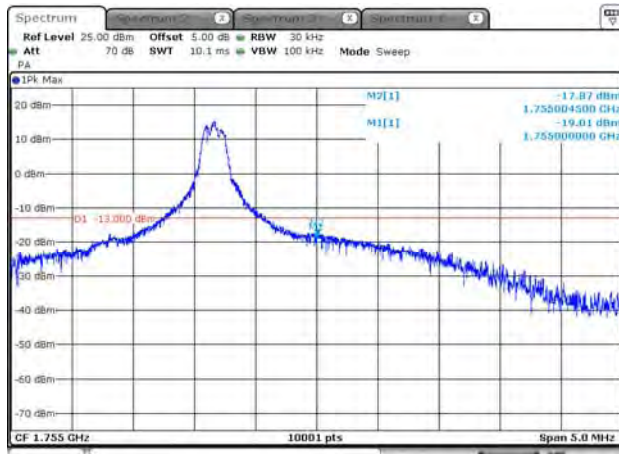
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Cat M1_Band 4_CH20325_15M_16-QAM_1RB5



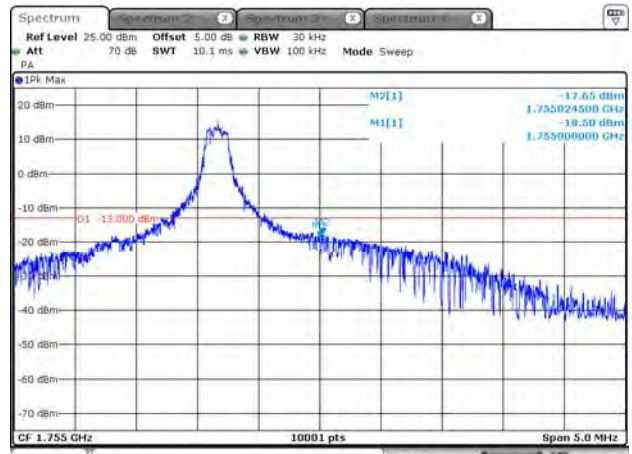
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Cat M1_Band 4_CH20325_15M_QPSK_6RB0



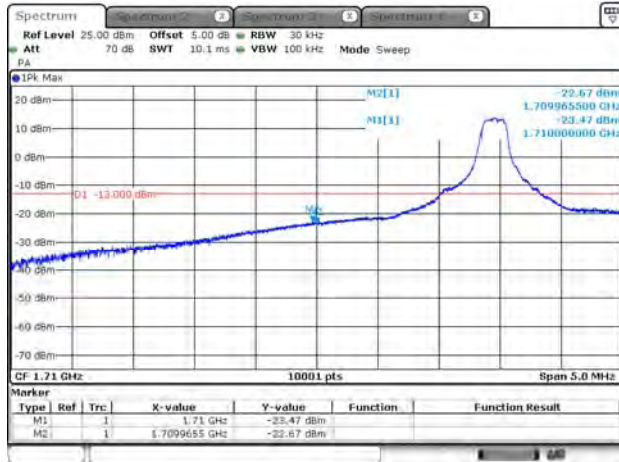
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Cat M1_Band 4_CH20325_15M_16-QAM_5RB1

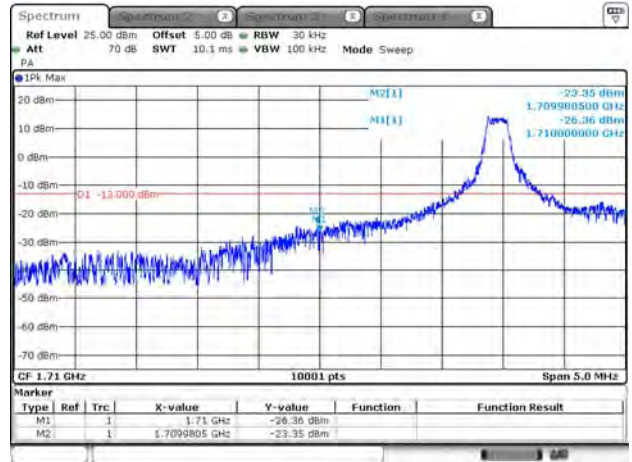


Date: 18 SEP 2018 15:19:36

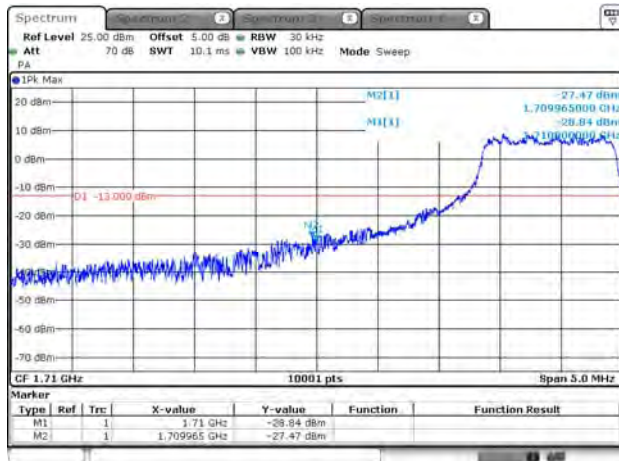
Cat M1_Band 4_CH20050_20M_QPSK_1RB0



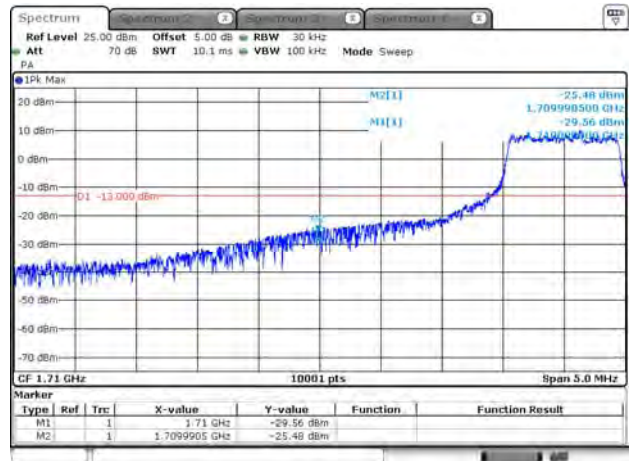
Cat M1_Band 4_CH20050_20M_16-QAM_1RB0



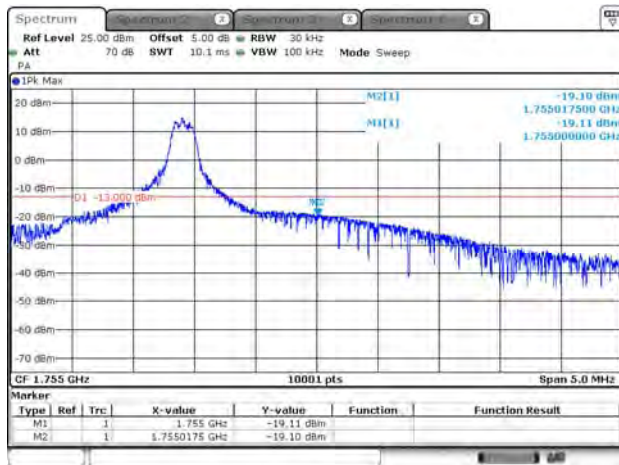
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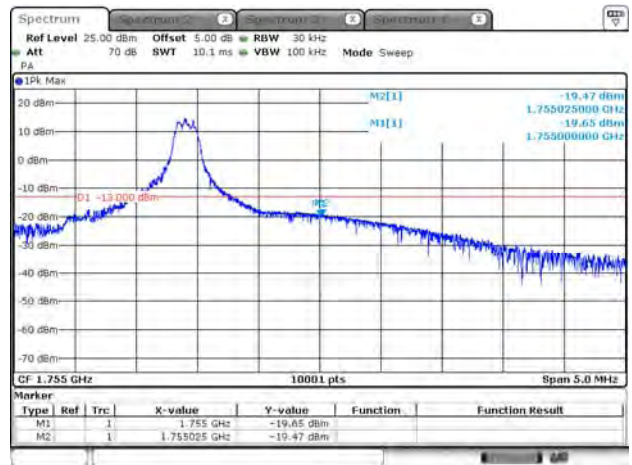
Cat M1_Band 4_CH20050_20M_16-QAM_5RB1



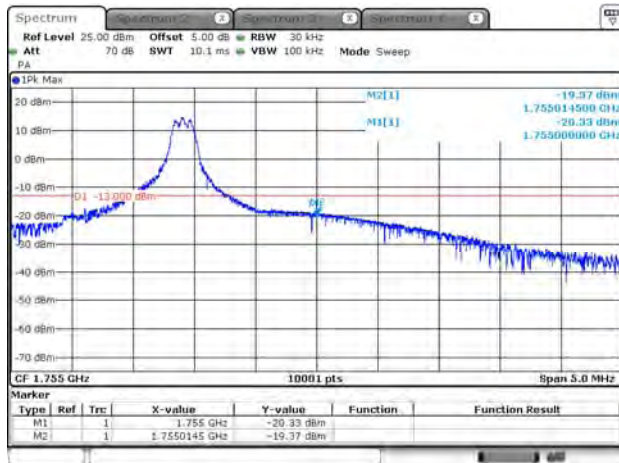
Cat M1_Band 4_CH20300_20M_QPSK_1RB0



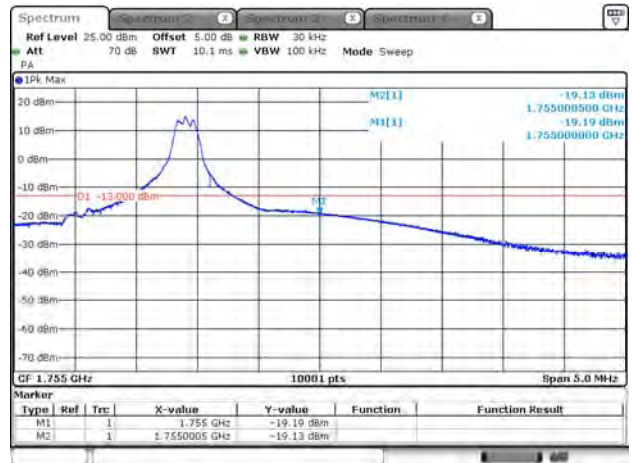
Cat M1_Band 4_CH20300_20M_16-QAM_1RB5



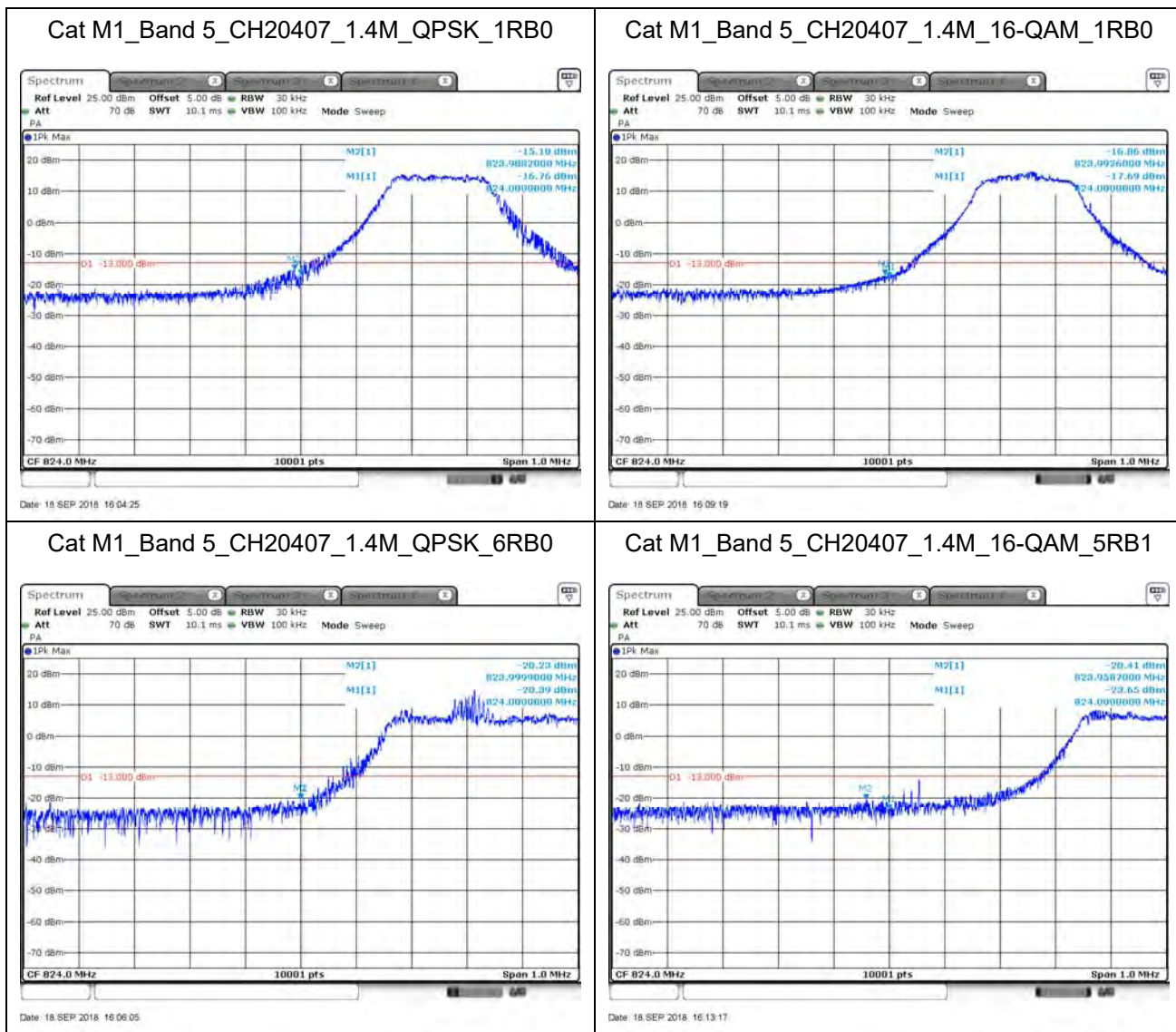
Cat M1_Band 4_CH20300_20M_QPSK_6RB0



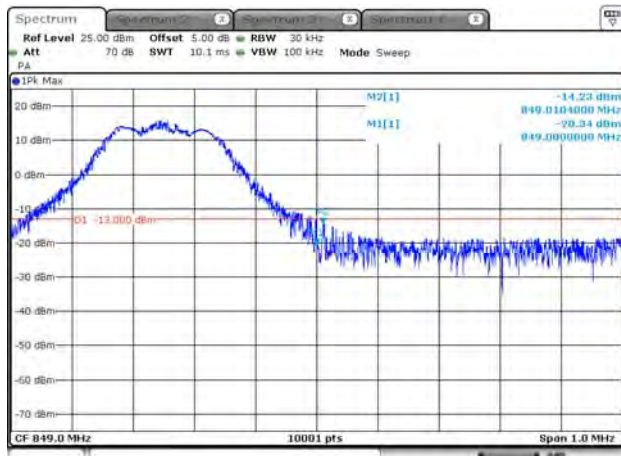
Cat M1_Band 4_CH20300_20M_16-QAM_5RB1



| | | | |
|--------------|---|-----------|--------|
| Product | ME910C1-WW | | |
| Test Item | Spurious Emissions at Antenna Terminals | | |
| Test Mode | Mode 3: LTE Band 5 | | |
| Date of Test | 2018/09/18 | Test Site | SR10-H |

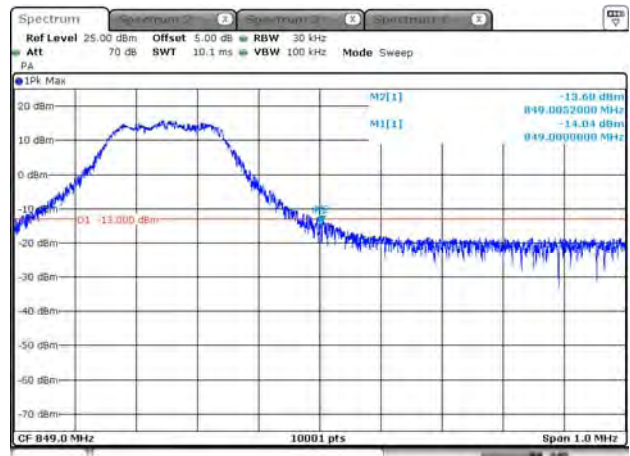


Cat M1_Band 5_CH20643_1.4M_QPSK_1RB0



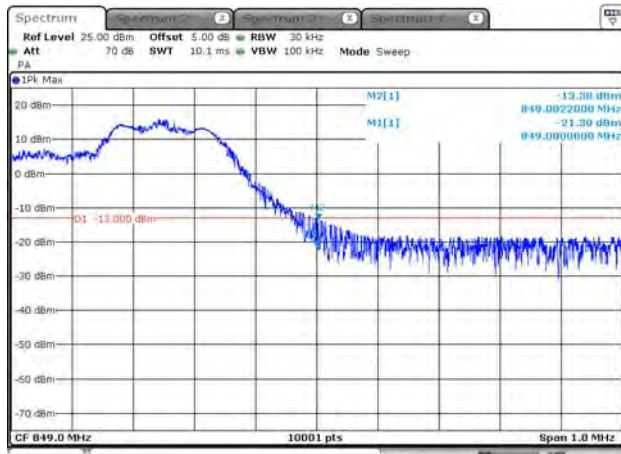
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Cat M1_Band 5_CH20643_1.4M_16-QAM_1RB5



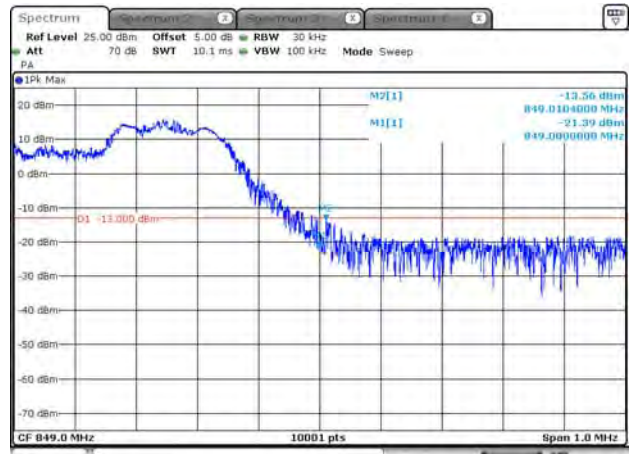
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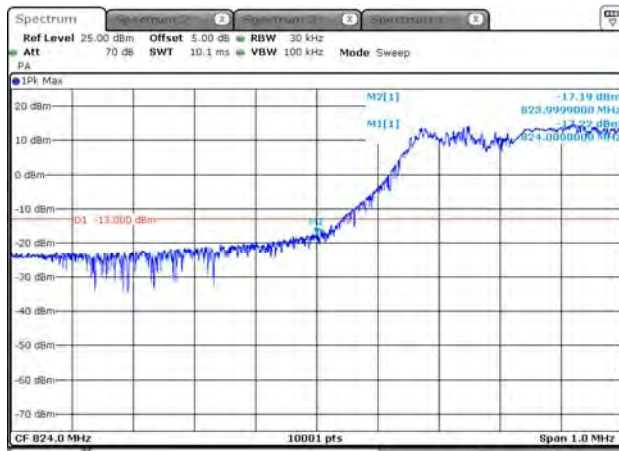
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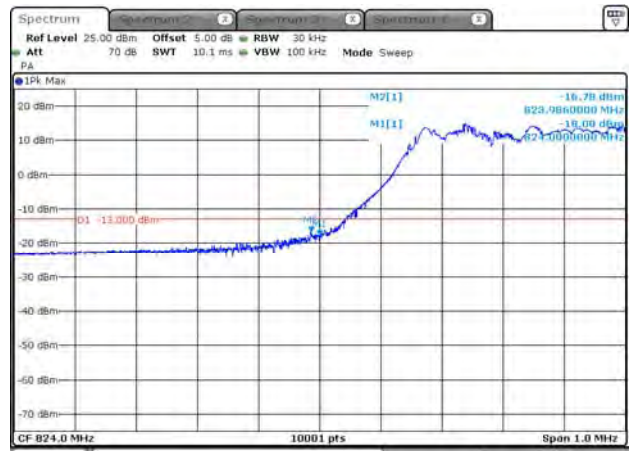
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Cat M1_Band 5_CH20415_3M_QPSK_1RB0



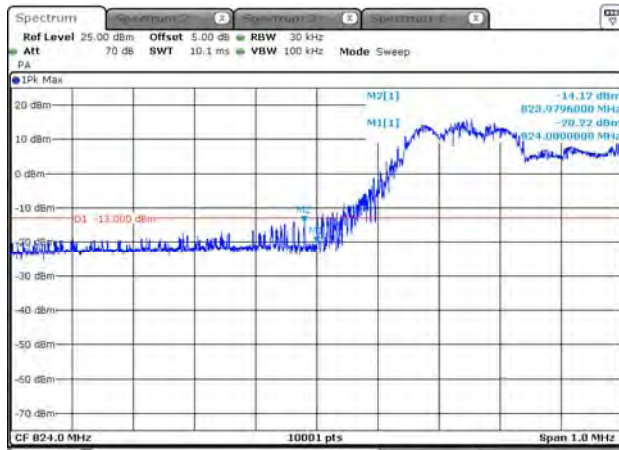
Date: 18 SEP 2018 17:03:05

Cat M1_Band 5_CH20415_3M_16-QAM_1RB0



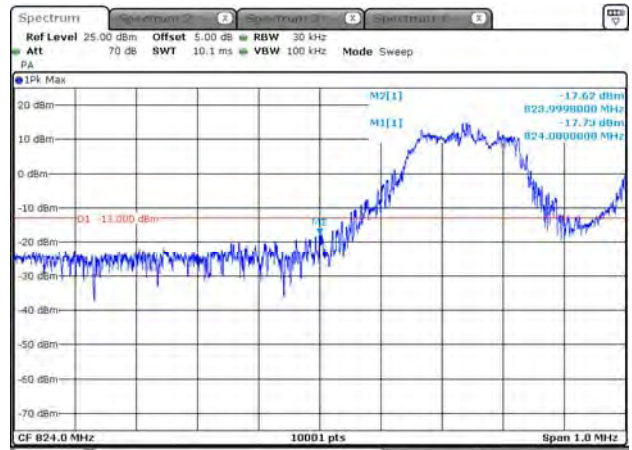
Date: 18 SEP 2018 16:59:15

Cat M1_Band 5_CH20415_3M_QPSK_6RB0



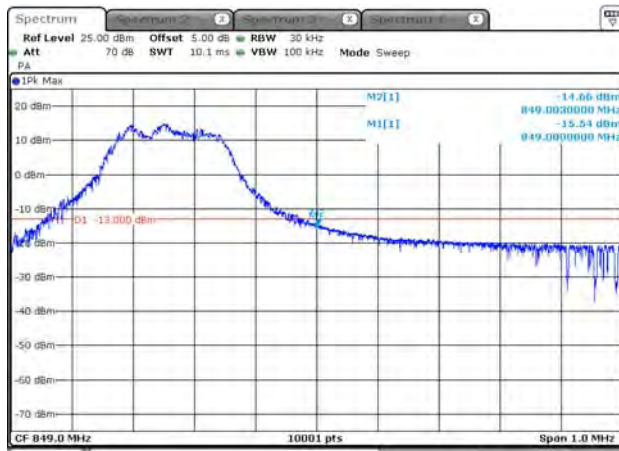
Date: 18 SEP 2018 17:06:24

Cat M1_Band 5_CH20415_3M_16-QAM_5RB1



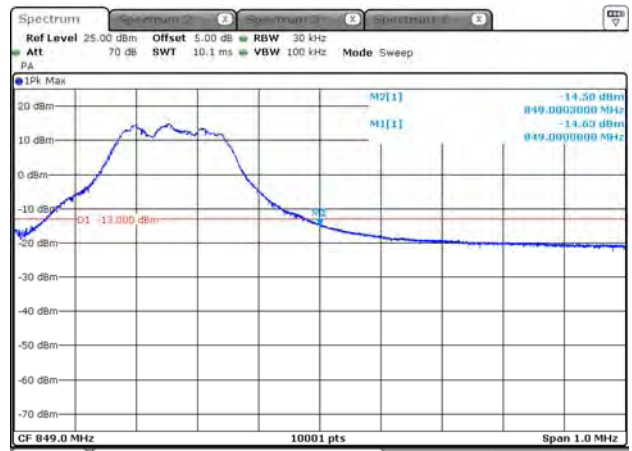
Date: 18 SEP 2018 16:48:31

Cat M1_Band 5_CH20635_3M_QPSK_1RB0



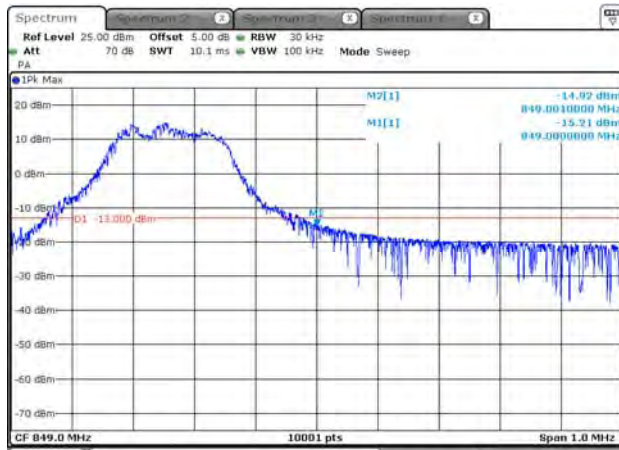
Date: 18 SEP 2018 16:29:35

Cat M1_Band 5_CH20635_3M_16-QAM_1RB5



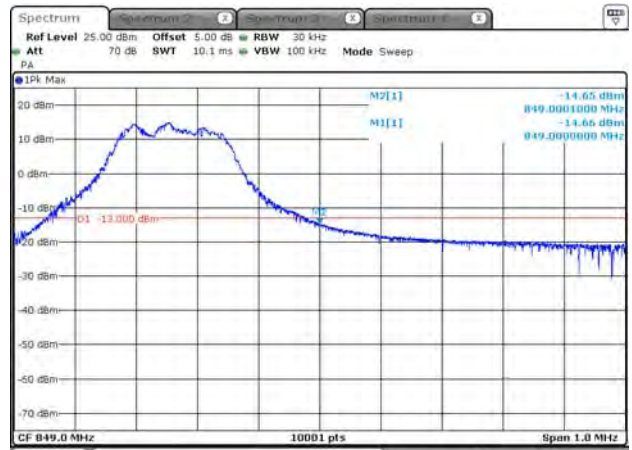
Date: 18 SEP 2018 16:33:45

Cat M1_Band 5_CH20635_3M_QPSK_6RB0



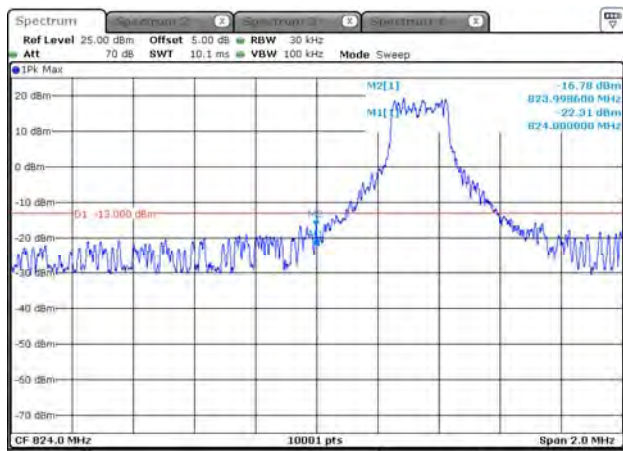
Date: 18 SEP 2018 16:27:59

Cat M1_Band 5_CH20635_3M_16-QAM_5RB1



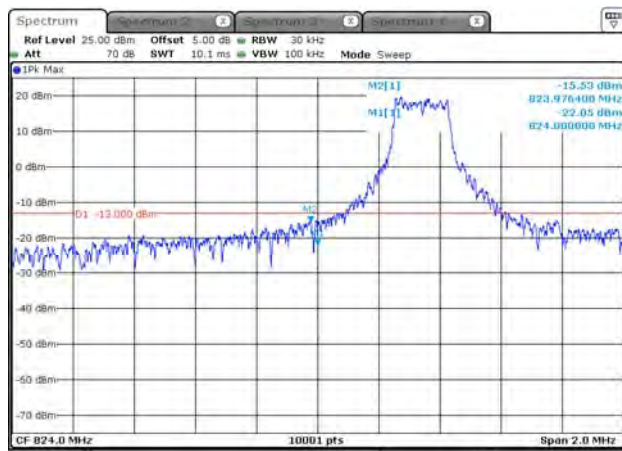
Date: 18 SEP 2018 16:35:57

Cat M1_Band 5_CH20425_5M_QPSK_1RB0



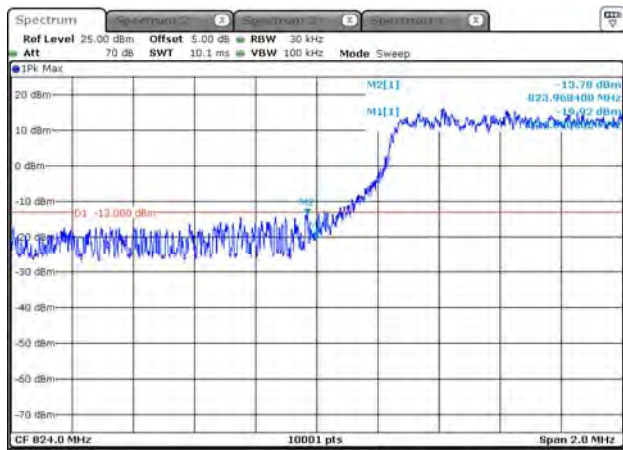
Date: 18 SEP 2016 17:47:54

Cat M1_Band 5_CH20425_5M_16-QAM_1RB0



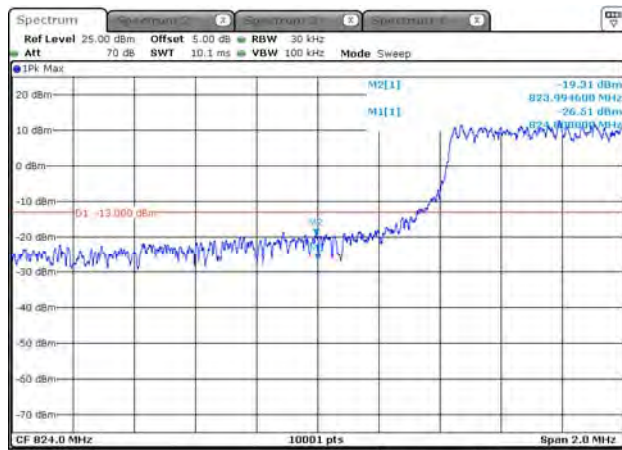
Date: 18 SEP 2016 17:48:56

Cat M1_Band 5_CH20425_5M_QPSK_6RB0



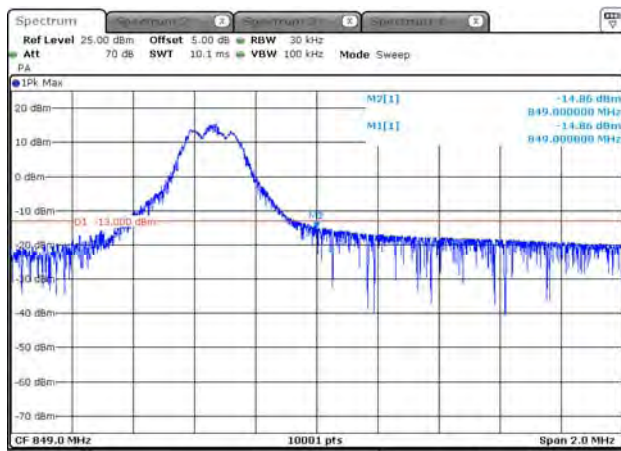
Date: 18 SEP 2016 17:45:34

Cat M1_Band 5_CH20425_5M_16-QAM_5RB1



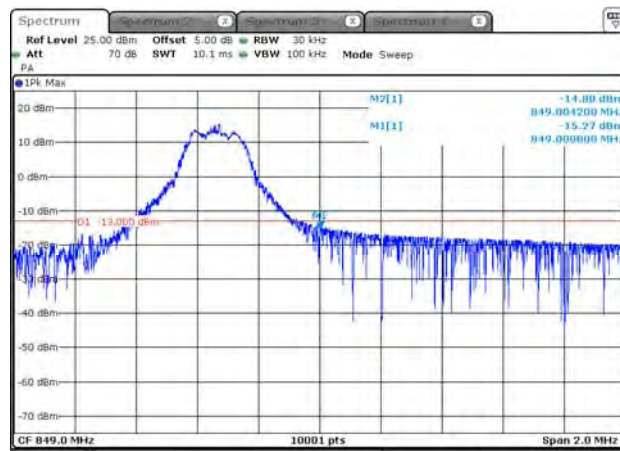
Date: 18 SEP 2016 17:50:44

Cat M1_Band 5_CH20625_5M_QPSK_1RB0



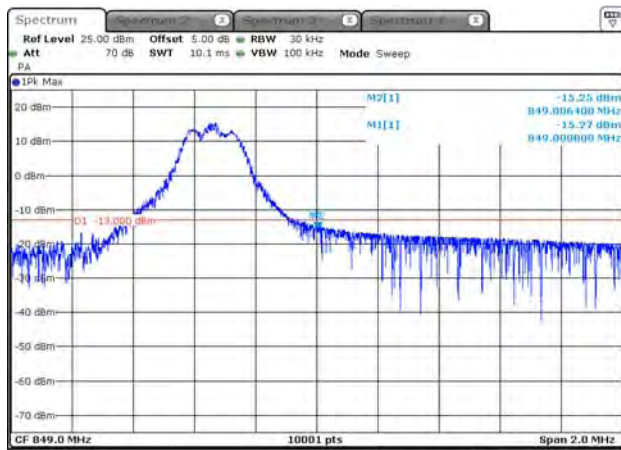
Date: 18 SEP 2018 17:59:40

Cat M1_Band 5_CH20625_5M_16-QAM_1RB5



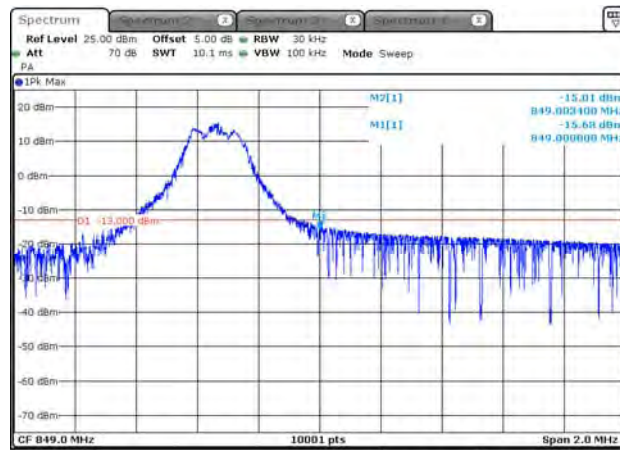
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Cat M1_Band 5_CH20625_5M_QPSK_6RB0



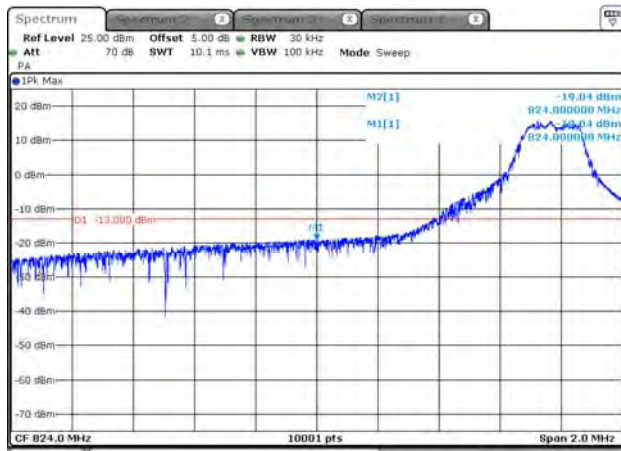
Date: 18 SEP 2018 17:58:41

Cat M1_Band 5_CH20625_5M_16-QAM_5RB1



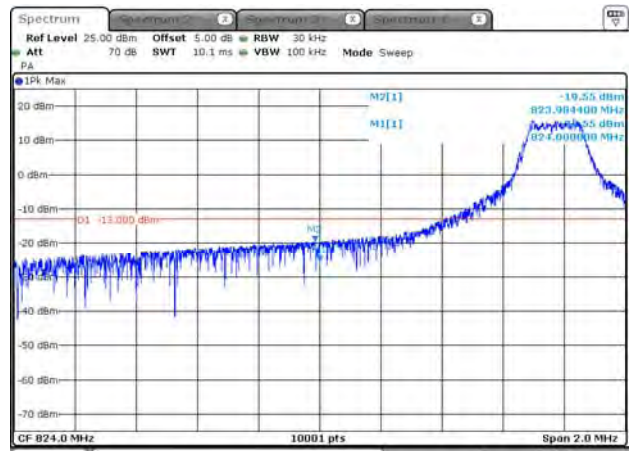
Date: 18 SEP 2018 17:58:35

Cat M1_Band 5_CH20450_10M_QPSK_1RB0



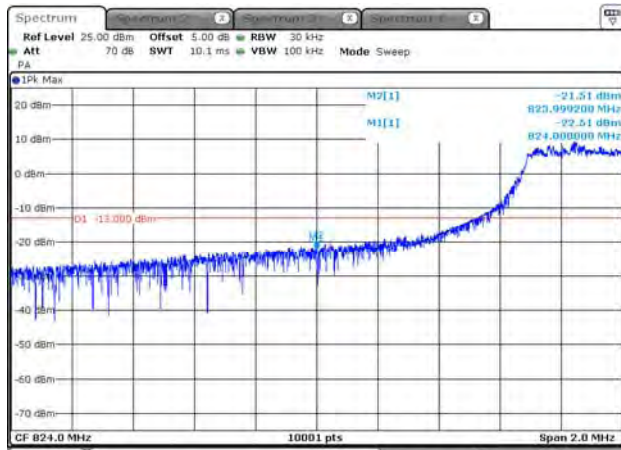
Date: 18 SEP 2018 17:19:46

Cat M1_Band 5_CH20450_10M_16-QAM_1RB0



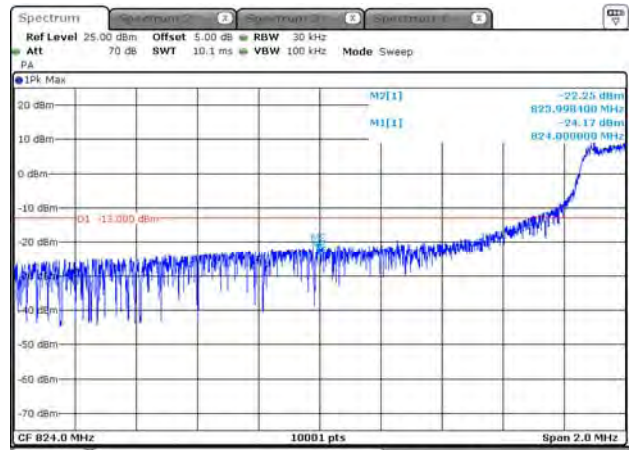
Date: 18 SEP 2018 17:22:55

Cat M1_Band 5_CH20450_10M_QPSK_6RB0



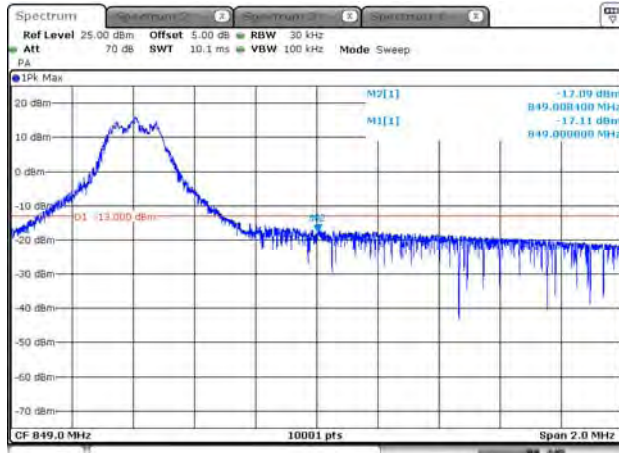
Date: 18 SEP 2018 17:21:17

Cat M1_Band 5_CH20450_10M_16-QAM_5RB1



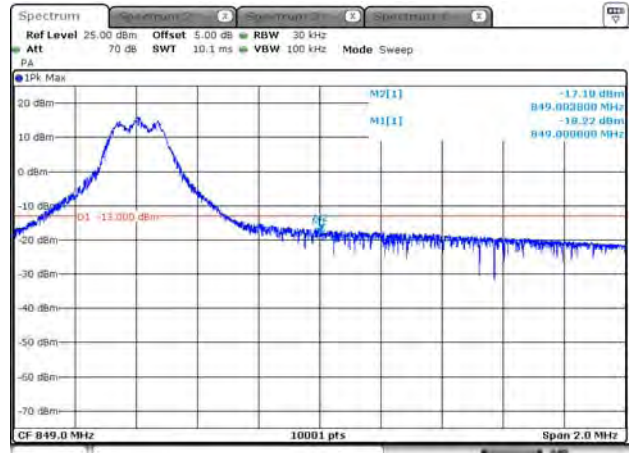
Date: 18 SEP 2018 17:24:28

Cat M1_Band 5_CH20600_10M_QPSK_1RB0



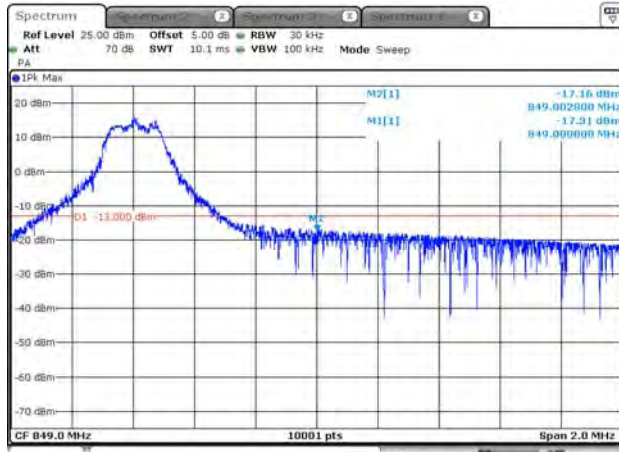
Date: 18 SEP 2018 17:37:35

Cat M1_Band 5_CH20600_10M_16-QAM_1RB5



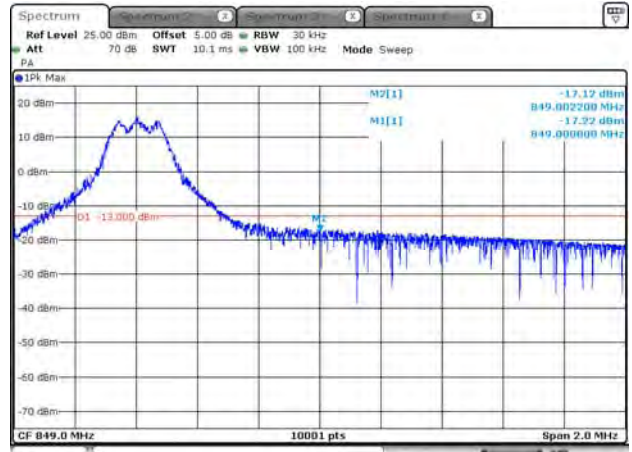
Date: 18 SEP 2018 17:35:06

Cat M1_Band 5_CH20600_10M_QPSK_6RB0



Date: 18 SEP 2018 17:40:40

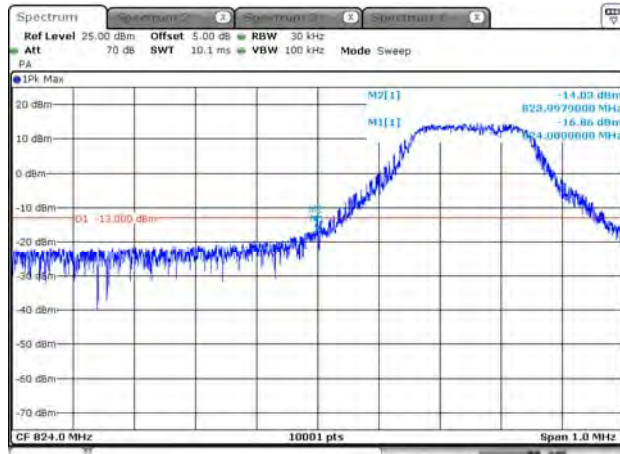
Cat M1_Band 5_CH20600_10M_16-QAM_5RB1



Date: 18 SEP 2018 17:28:36

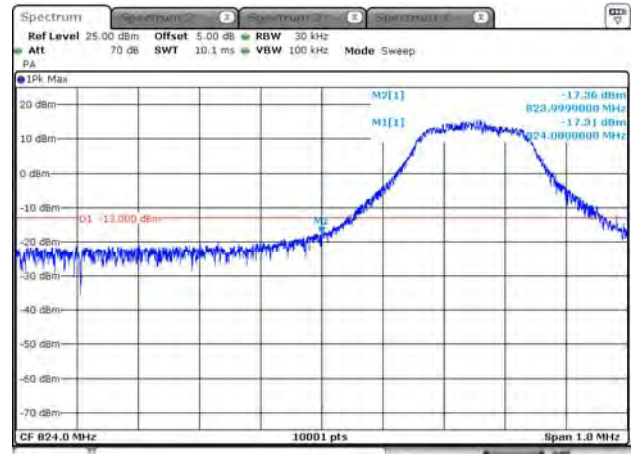
| | | | |
|--------------|---|-----------|--------|
| Product | ME910C1-WW | | |
| Test Item | Spurious Emissions at Antenna Terminals | | |
| Test Mode | Mode 4: LTE Band 26 (Part 22) | | |
| Date of Test | 2018/09/18 | Test Site | SR10-H |

Cat M1_Band 26_CH26797_1.4M_QPSK_1RB0



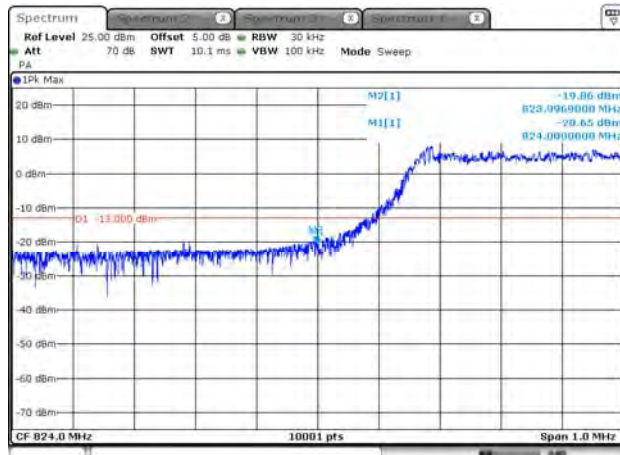
Date: 18 SEP 2018 18:03:19

Cat M1_Band 26_CH26797_1.4M_16-QAM_1RB0



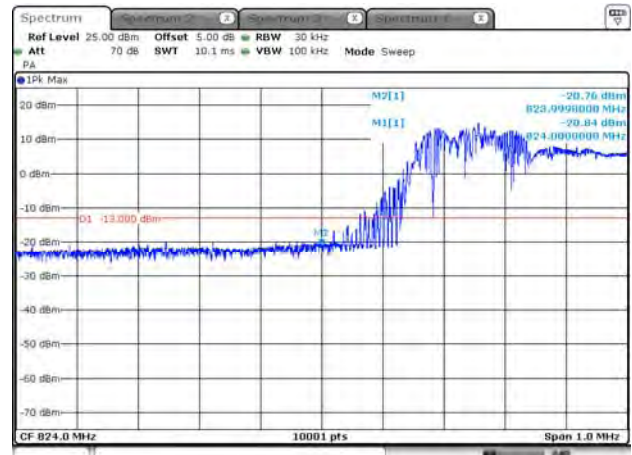
Date: 18 SEP 2018 18:07:53

Cat M1_Band 26_CH26797_1.4M_QPSK_6RB0



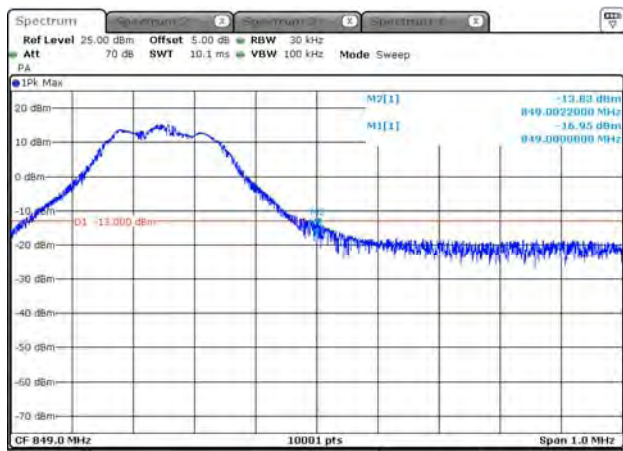
Date: 18 SEP 2018 18:05:58

Cat M1_Band 26_CH26797_1.4M_16-QAM_5RB1



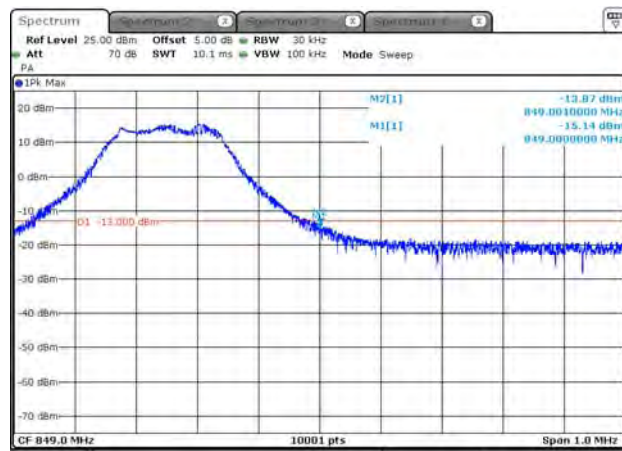
Date: 18 SEP 2018 18:12:07

Cat M1_Band 26_CH27033_1.4M_QPSK_1RB0



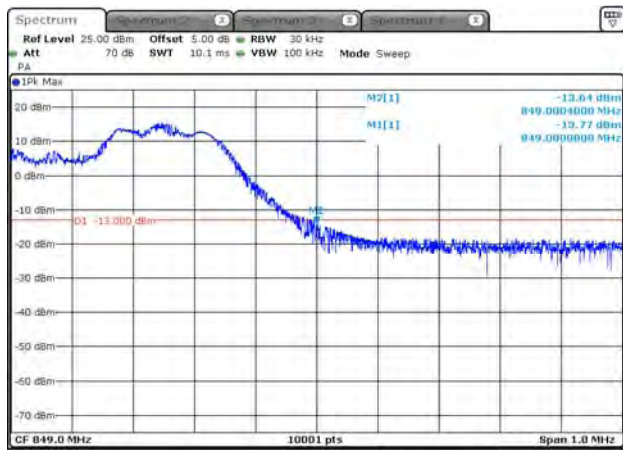
Date: 18 SEP 2018 18:22:22

Cat M1_Band 26_CH27033_1.4M_16-QAM_1RB5



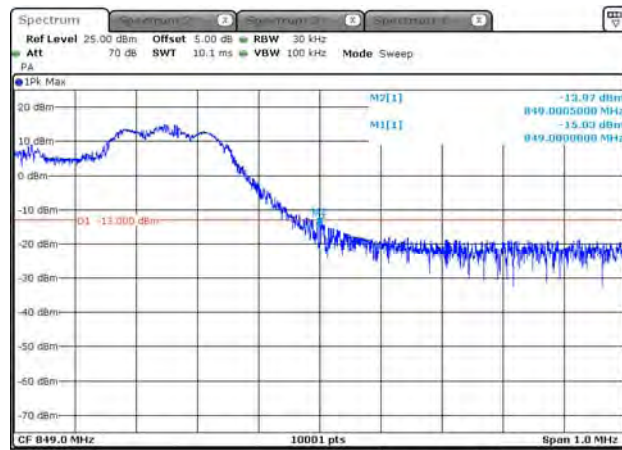
Date: 18 SEP 2018 18:19:47

Cat M1_Band 26_CH27033_1.4M_QPSK_6RB0



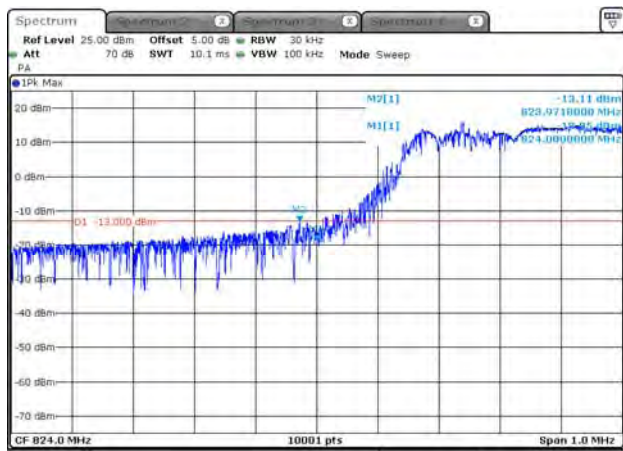
Date: 18 SEP 2018 18:24:36

Cat M1_Band 26_CH27033_1.4M_16-QAM_5RB1



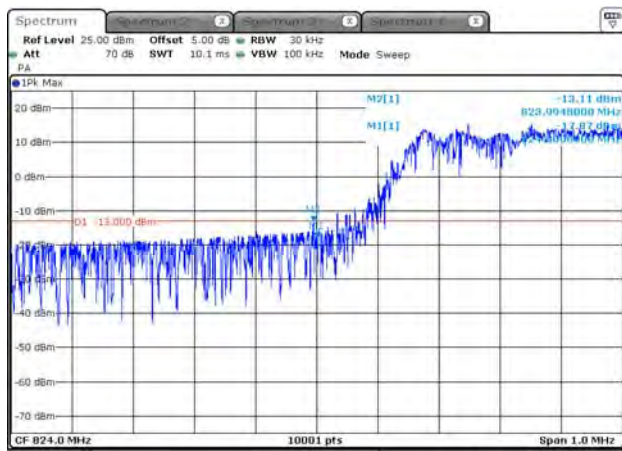
Date: 18 SEP 2018 18:17:04

Cat M1_Band 26_CH26805_3M_QPSK_1RB0



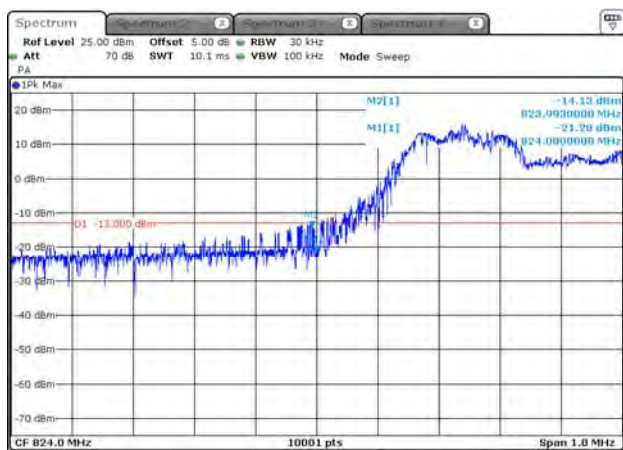
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Cat M1_Band 26_CH26805_3M_16-QAM_1RB0



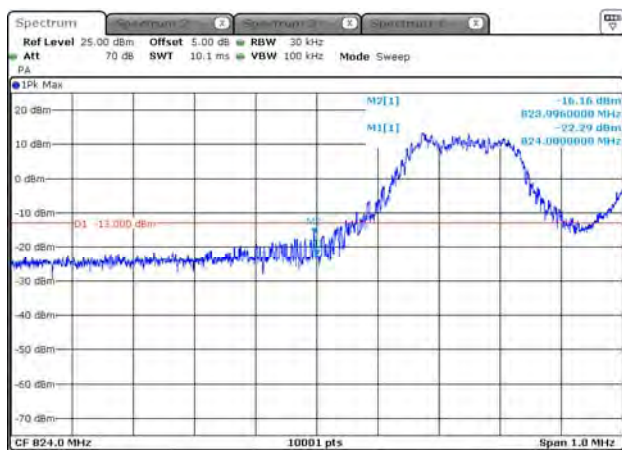
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Cat M1_Band 26_CH26805_3M_QPSK_6RB0

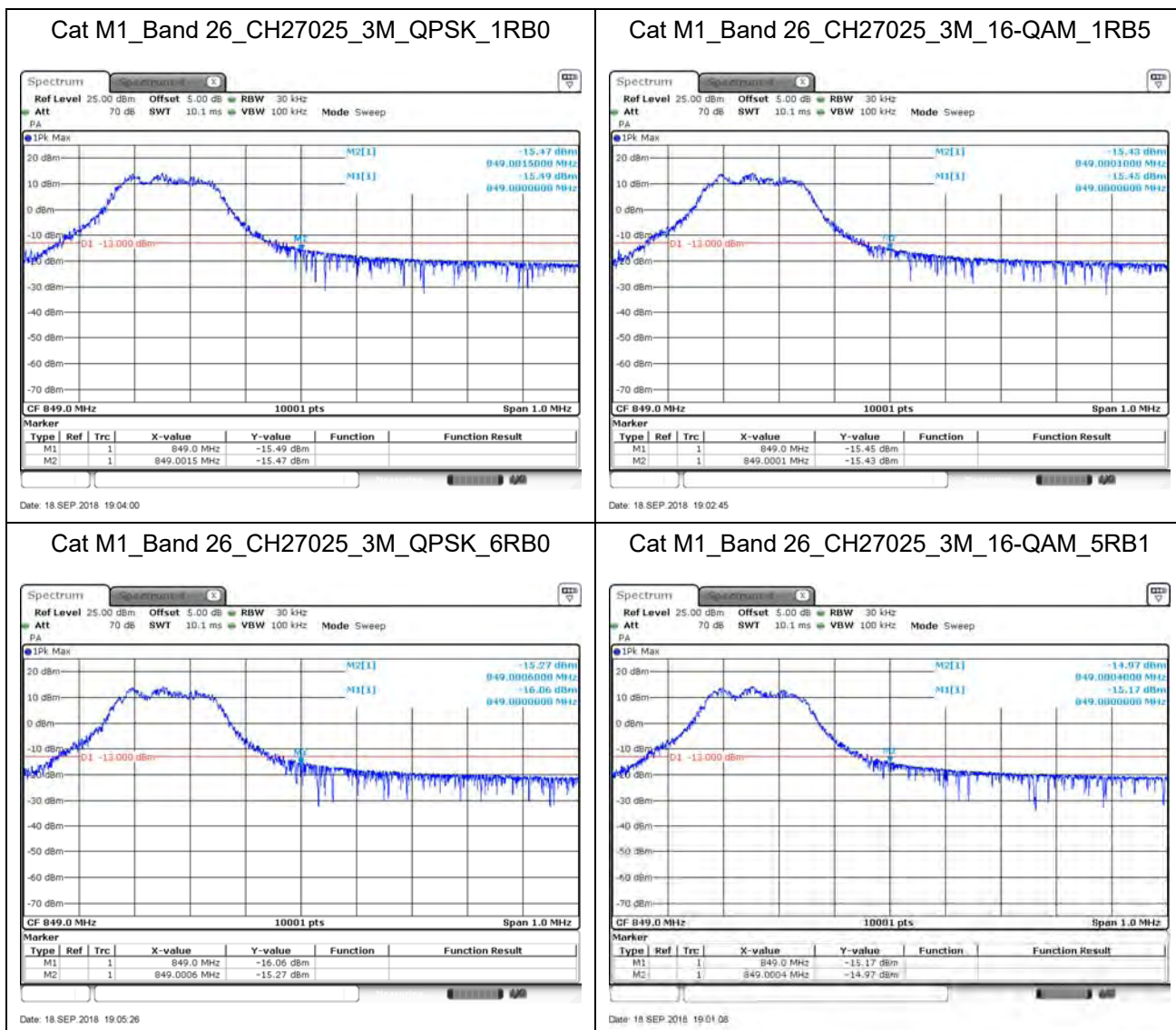


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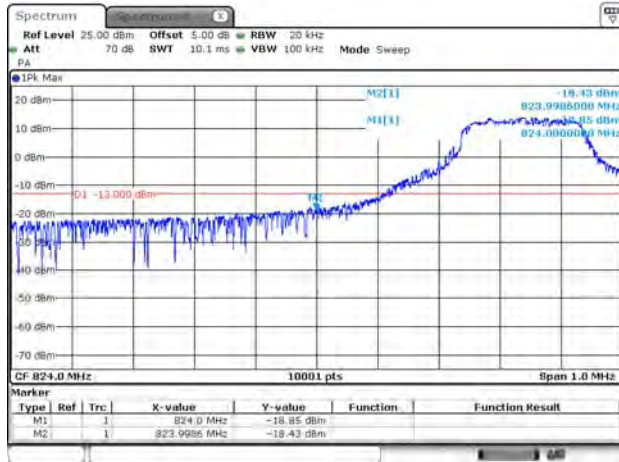
Cat M1_Band 26_CH26805_3M_16-QAM_5RB1



Date: 18 SEP 2018 18:45:56

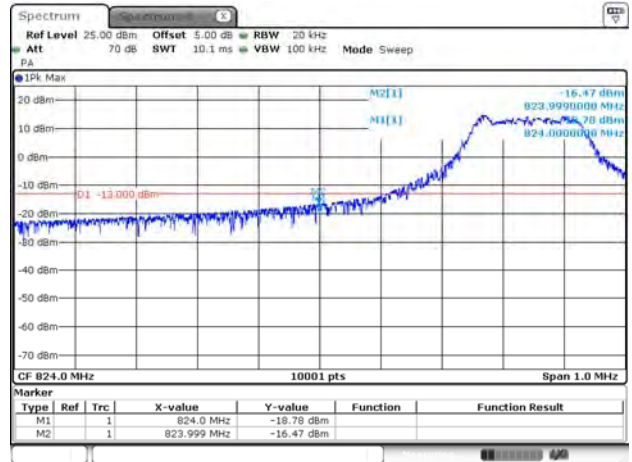


Cat M1_Band 26_CH26805_5M_QPSK_1RB0



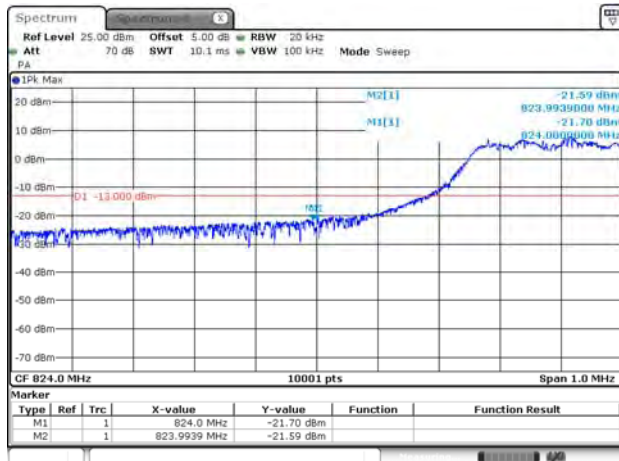
Date: 18 SEP 2018 19:11:45

Cat M1_Band 26_CH26805_5M_16-QAM_1RB0



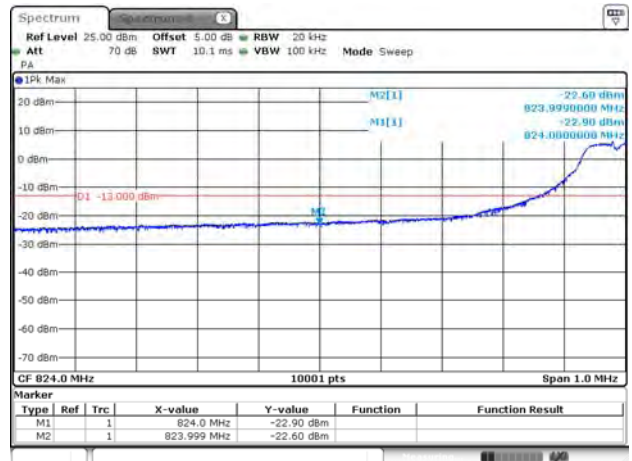
Date: 18 SEP 2018 19:13:24

Cat M1_Band 26_CH26805_5M_QPSK_6RB0

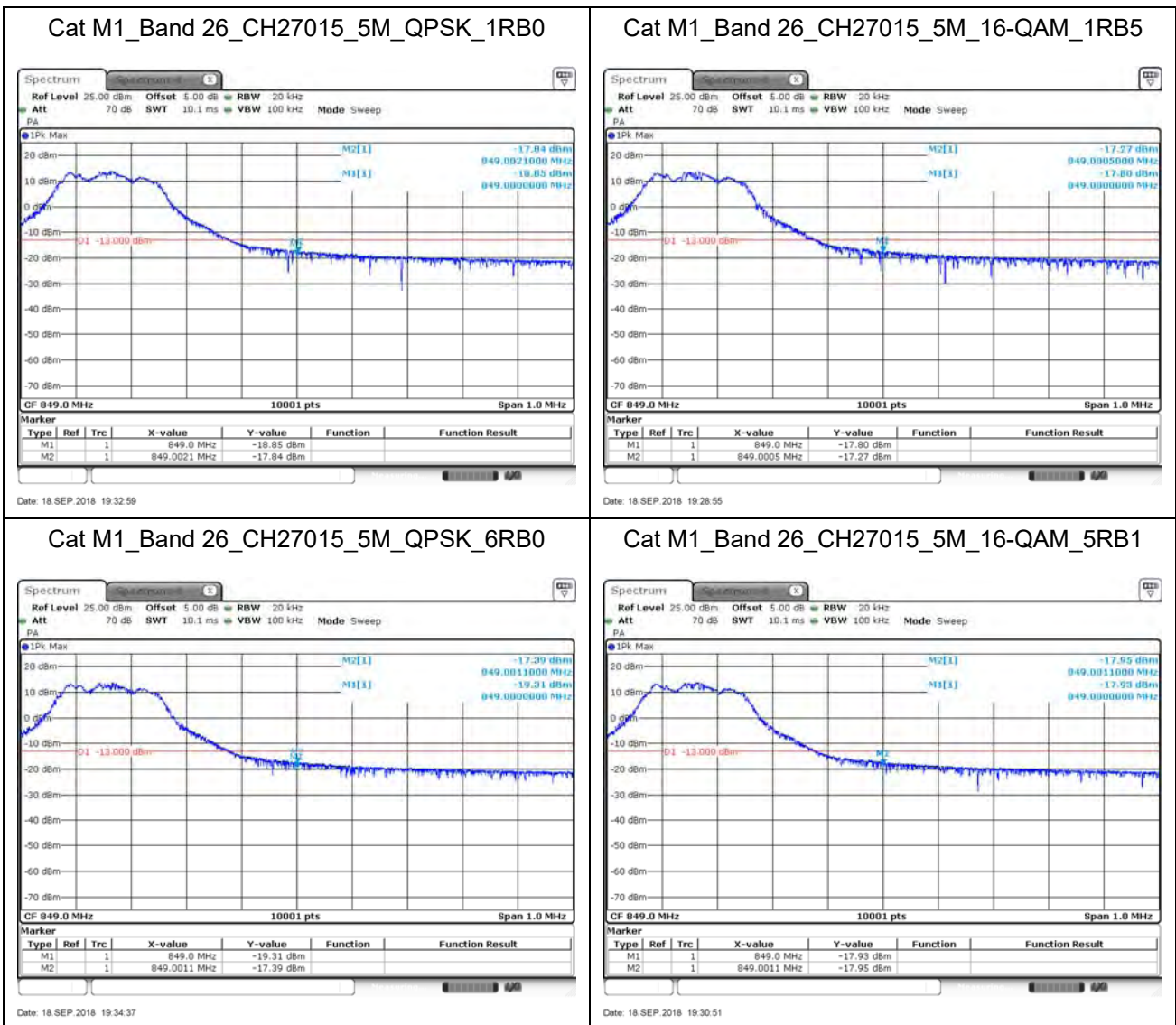


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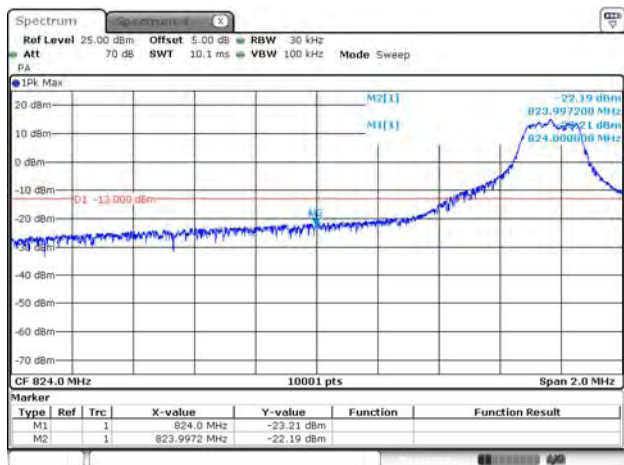
Cat M1_Band 26_CH26805_5M_16-QAM_5RB1



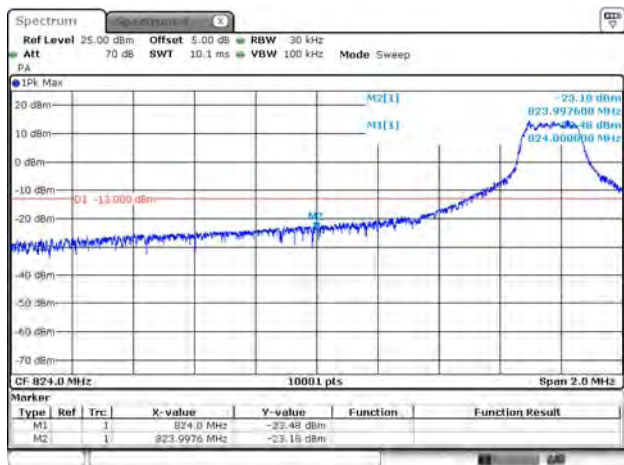
Date: 18 SEP 2018 19:19:28



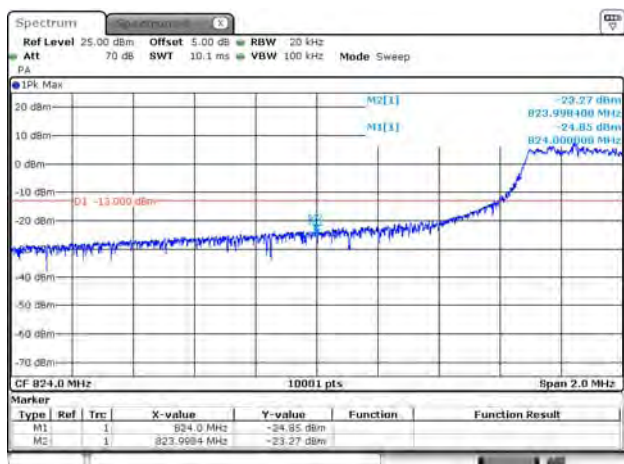
Cat M1_Band 26_CH26840_10M_QPSK_1RB0



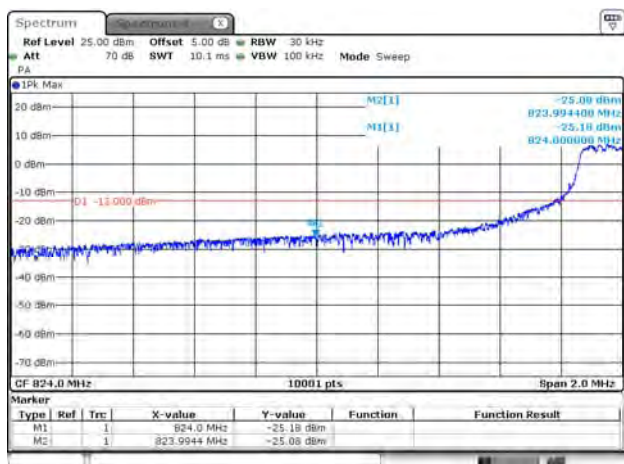
Cat M1_Band 26_CH26840_10M_16-QAM_1RB0



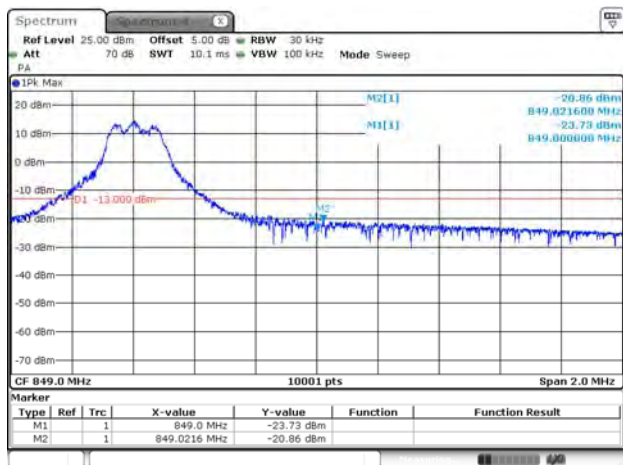
Cat M1_Band 26_CH26840_10M_QPSK_6RB0



Cat M1_Band 26_CH26840_10M_16-QAM_5RB1

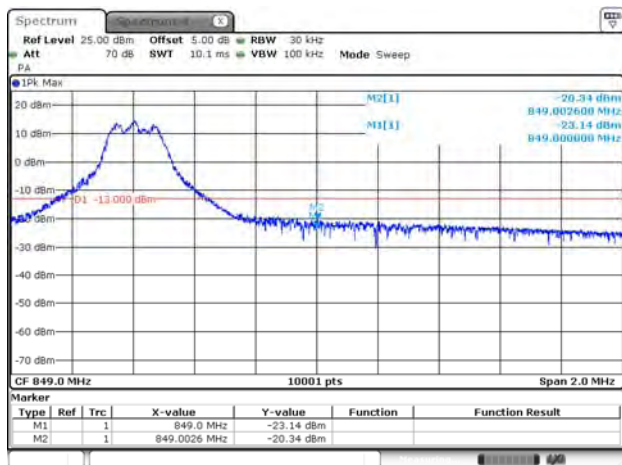


Cat M1_Band 26_CH26990_10M_QPSK_1RB0



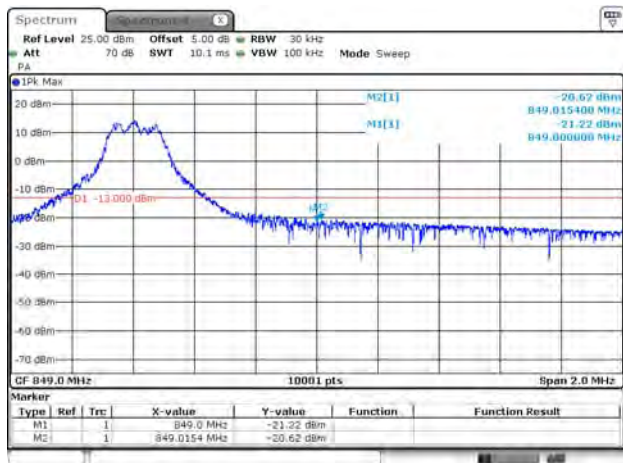
Date: 18 SEP 2018 19:56:11

Cat M1_Band 26_CH26990_10M_16-QAM_1RB5



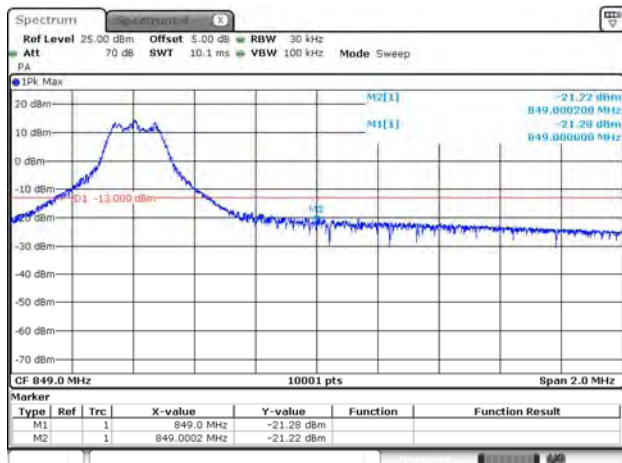
Date: 18 SEP 2018 19:54:28

Cat M1_Band 26_CH26990_10M_QPSK_6RB0



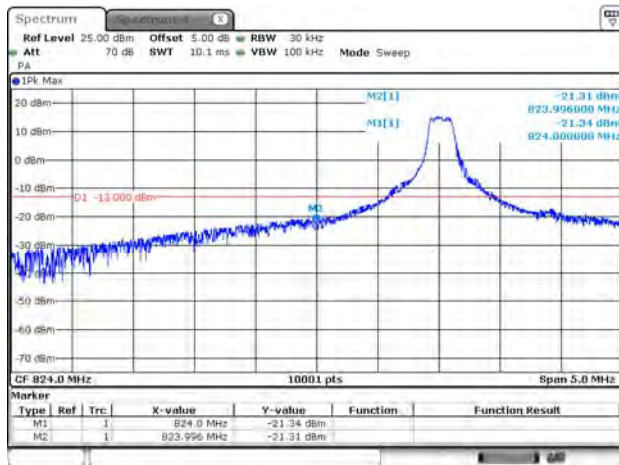
Date: 18 SEP 2018 19:58:41

Cat M1_Band 26_CH26990_10M_16-QAM_5RB1



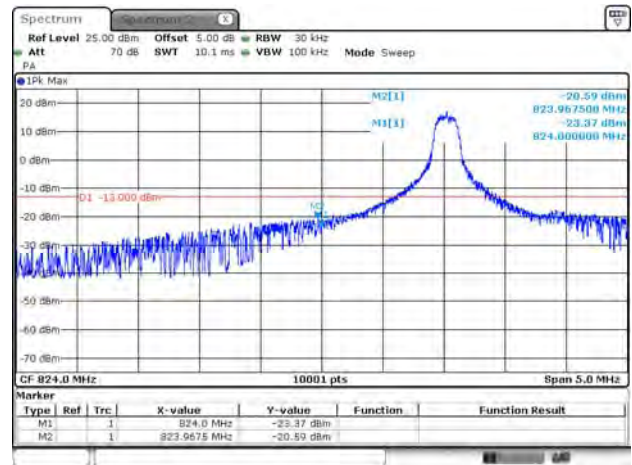
Date: 18 SEP 2018 19:52:20

Cat M1_Band 26_CH26865_15M_QPSK_1RB0



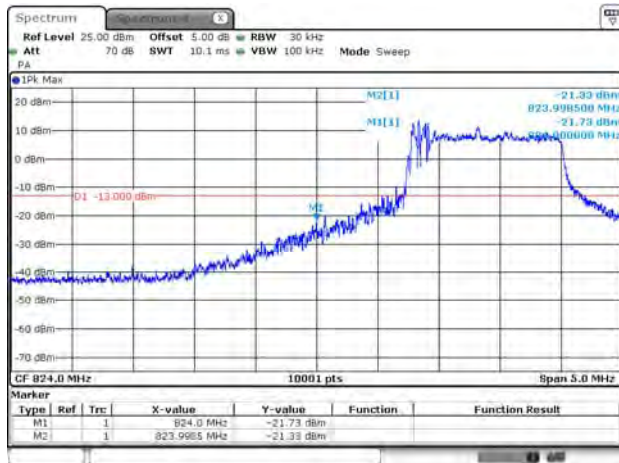
Date: 18 SEP 2018 20:31:22

Cat M1_Band 26_CH26865_15M_16-QAM_1RB0



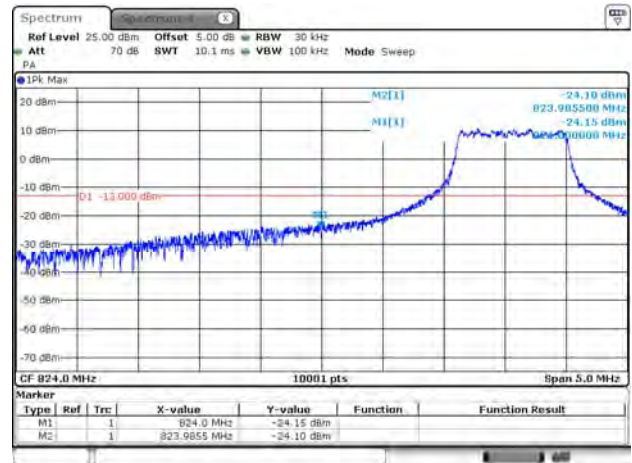
Date: 18 SEP 2018 06:30:39

Cat M1_Band 26_CH26865_15M_QPSK_6RB0



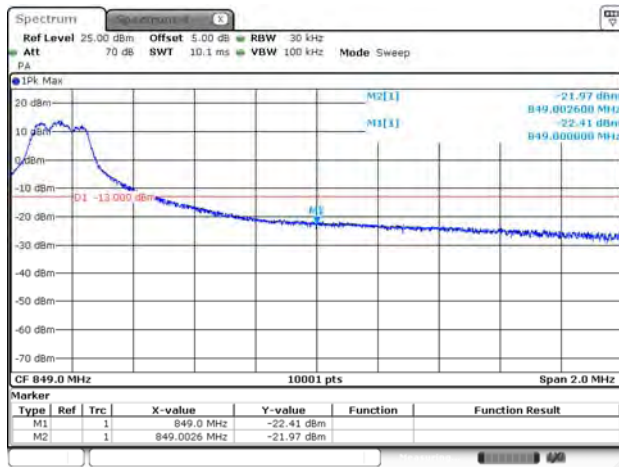
Date: 18 SEP 2018 20:35:34

Cat M1_Band 26_CH26865_15M_16-QAM_5RB1



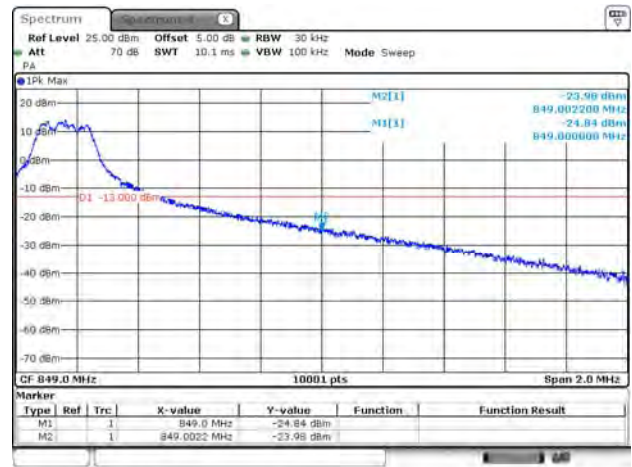
Date: 18 SEP 2018 20:26:50

Cat M1_Band 26_CH26965_15M_QPSK_1RB0



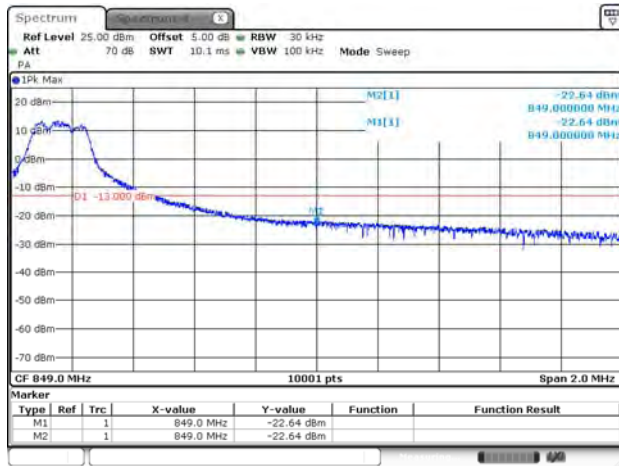
Date: 18 SEP 2018 20:04:58

Cat M1_Band 26_CH26965_15M_16-QAM_1RB5



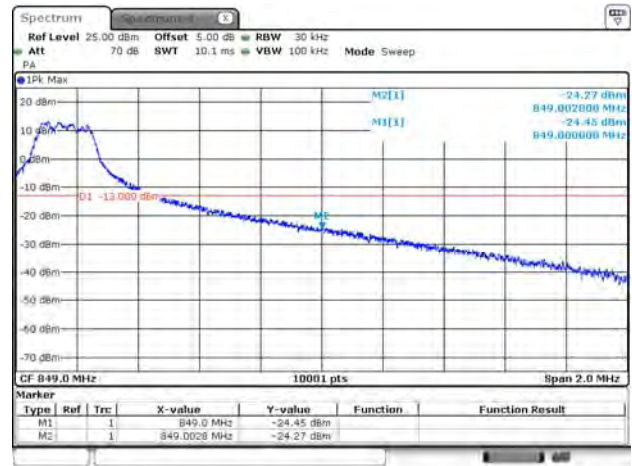
Date: 18 SEP 2018 20:12:17

Cat M1_Band 26_CH26965_15M_QPSK_6RB0



Date: 18 SEP 2018 20:01:37

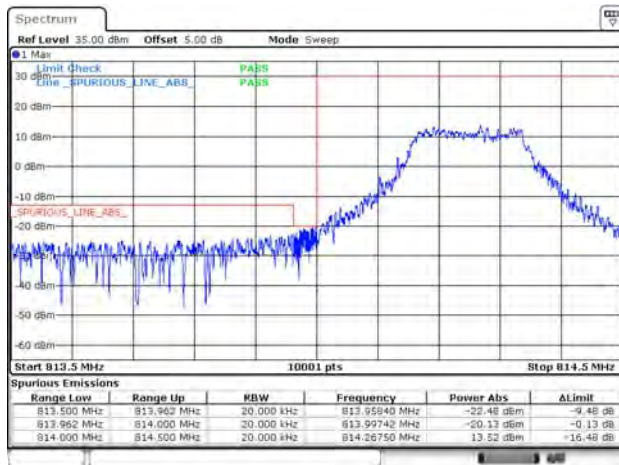
Cat M1_Band 26_CH26965_15M_16-QAM_5RB1



Date: 18 SEP 2018 20:13:44

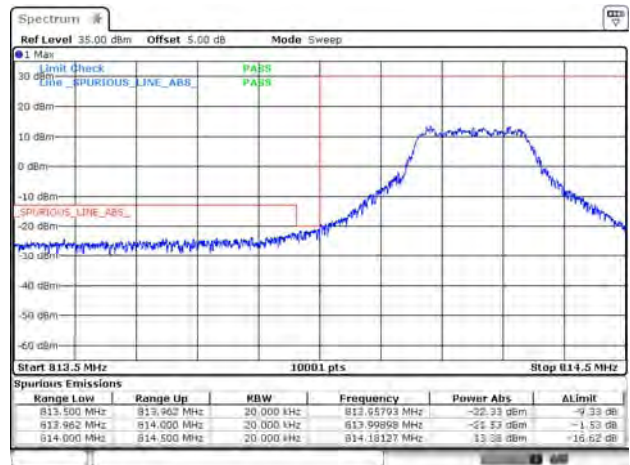
| | | | |
|--------------|---|-----------|--------|
| Product | ME910C1-WW | | |
| Test Item | Spurious Emissions at Antenna Terminals | | |
| Test Mode | Mode 4: LTE Band 26 (Part 90) | | |
| Date of Test | 2018/09/19 | Test Site | SR10-H |

Cat M1_Band 26_CH26697_1.4M_QPSK_1RB0



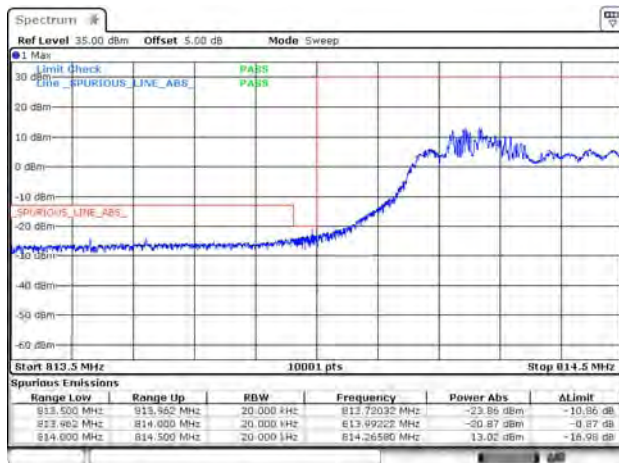
Date: 19 SEP 2018 11:44:59

Cat M1_Band 26_CH26697_1.4M_16-QAM_1RB0



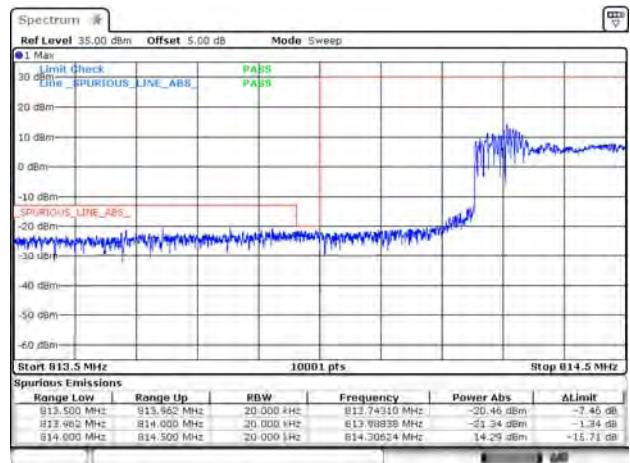
Date: 19 SEP 2018 11:52:04

Cat M1_Band 26_CH26697_1.4M_QPSK_6RB0



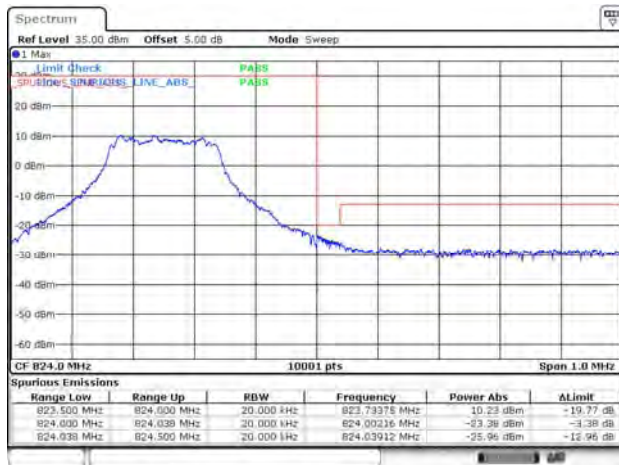
Date: 19 SEP 2018 13:57:39

Cat M1_Band 26_CH26697_1.4M_16-QAM_5RB1



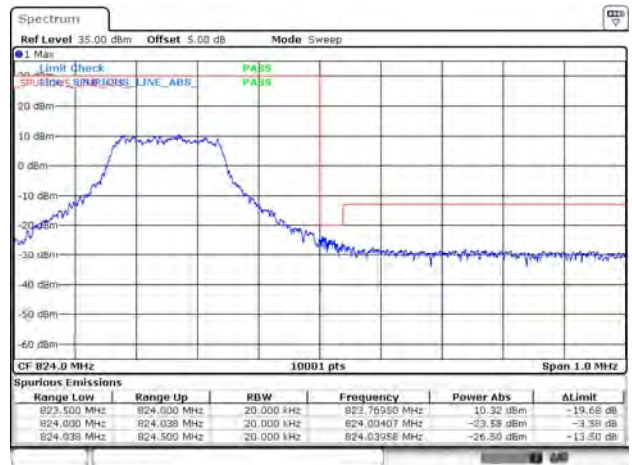
Date: 19 SEP 2018 11:54:47

Cat M1_Band 26_CH26783_1.4M_QPSK_1RB0



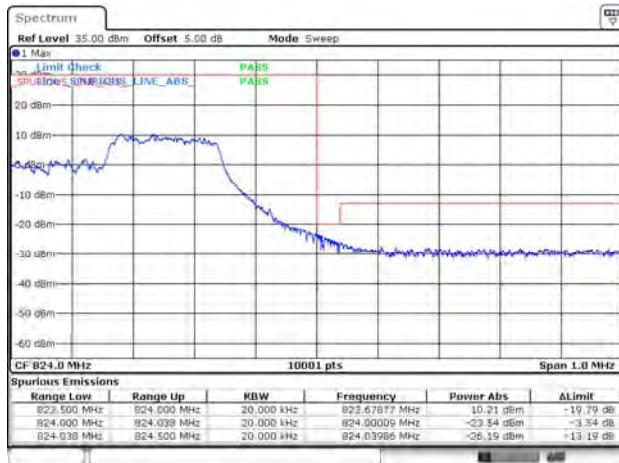
Date: 19 SEP 2018 17:07:50

Cat M1_Band 26_CH26783_1.4M_16-QAM_1RB5



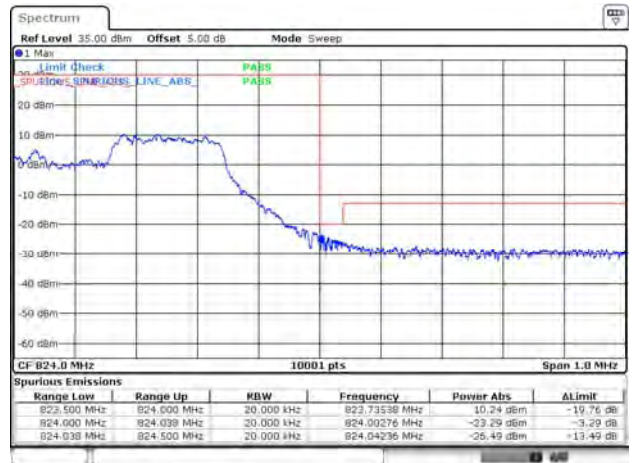
Date: 19 SEP 2018 16:47:08

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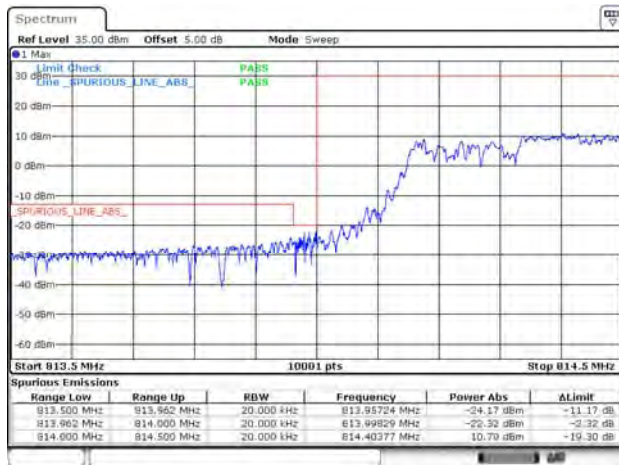
Date: 19 SEP 2018 17:10:37

Cat M1_Band 26_CH26783_1.4M_16-QAM_5RB1



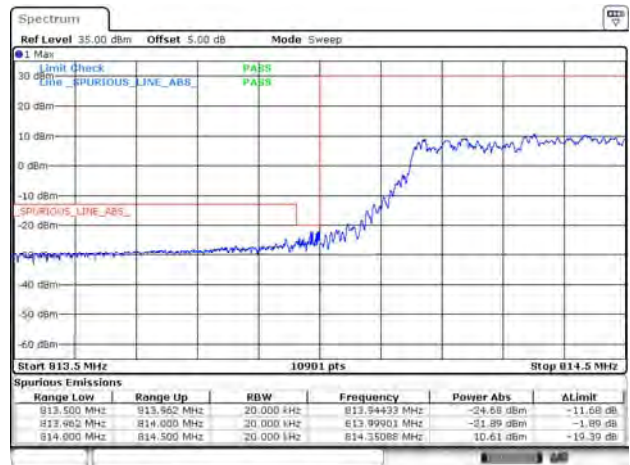
Date: 19 SEP 2018 16:45:19

Cat M1_Band 26_CH26705_3M_QPSK_1RB0



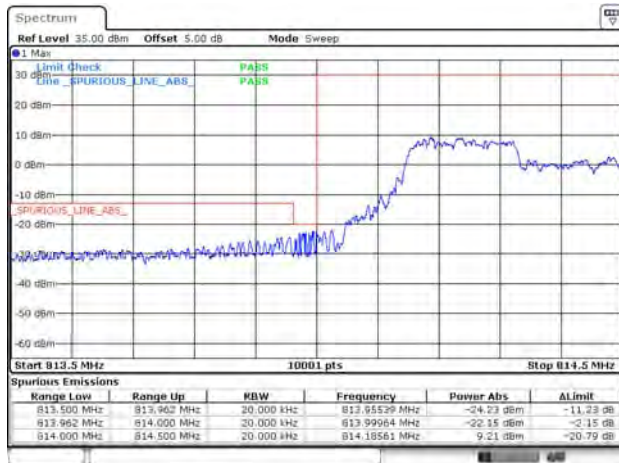
Date: 19 SEP 2016 13:39:09

Cat M1_Band 26_CH26705_3M_16-QAM_1RB0



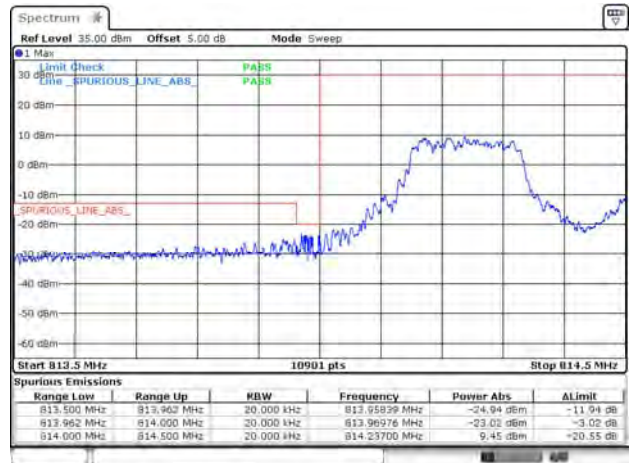
Date: 19 SEP 2016 13:32:58

Cat M1_Band 26_CH26705_3M_QPSK_6RB0



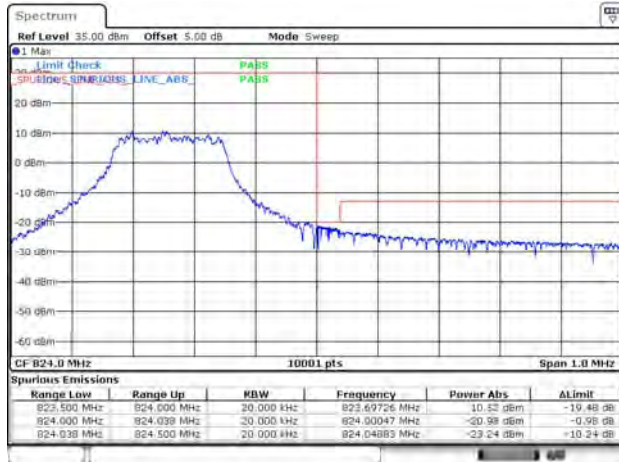
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Cat M1_Band 26_CH26705_3M_16-QAM_5RB1



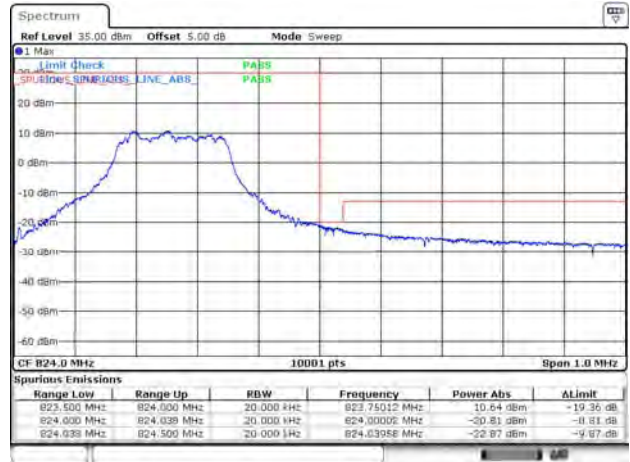
Date: 19 SEP 2016 13:26:56

Cat M1_Band 26_CH26775_3M_QPSK_1RB0



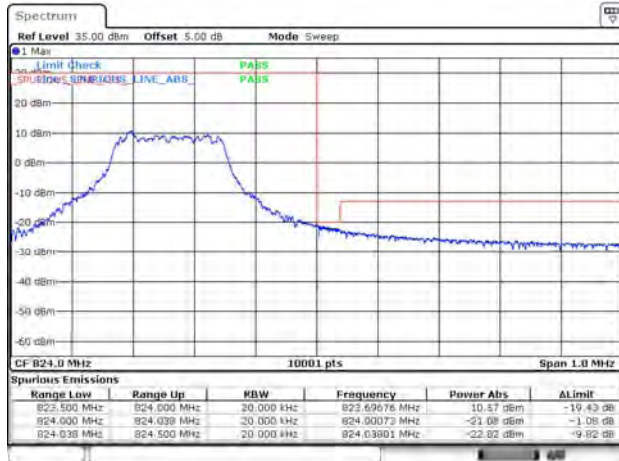
Date: 19 SEP 2018 16:18:55

Cat M1_Band 26_CH26775_3M_16-QAM_1RB0



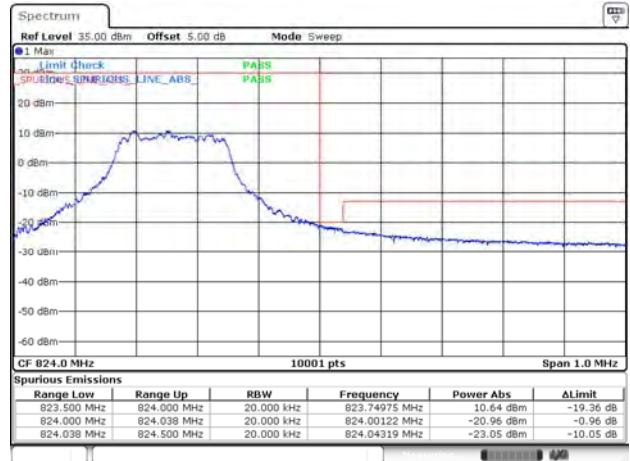
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Cat M1_Band 26_CH26775_3M_QPSK_6RB0



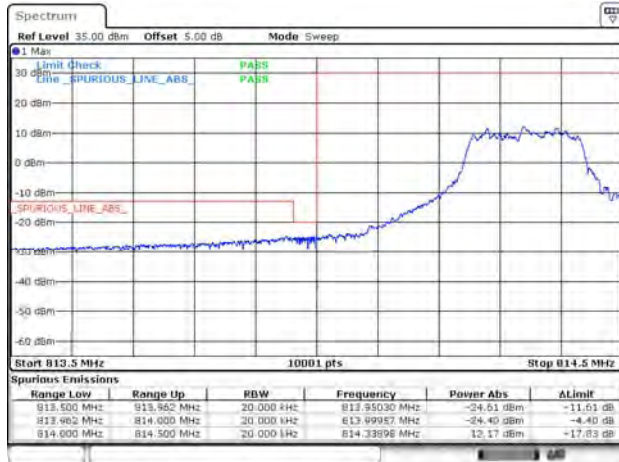
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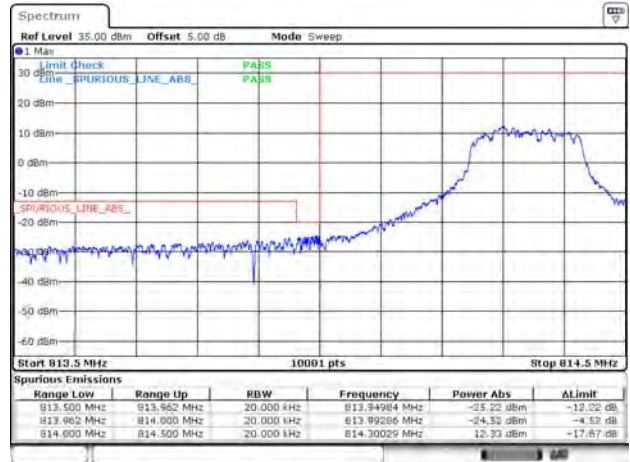
Date: 19 SEP 2018 16:23:17

Cat M1_Band 26_CH26715_5M_QPSK_1RB0



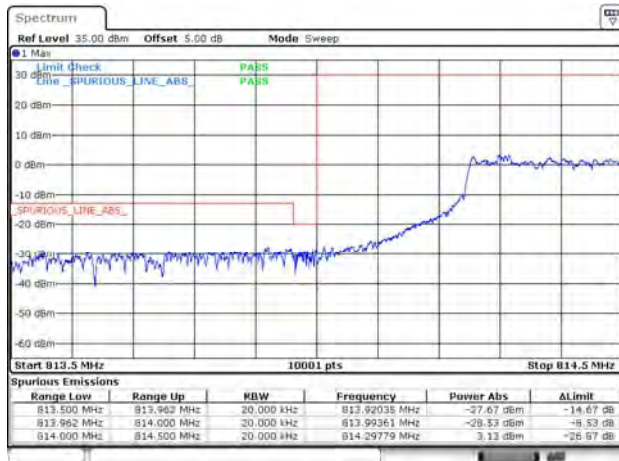
Date: 19 SEP 2016 14:22:58

Cat M1_Band 26_CH26715_5M_16-QAM_1RB0



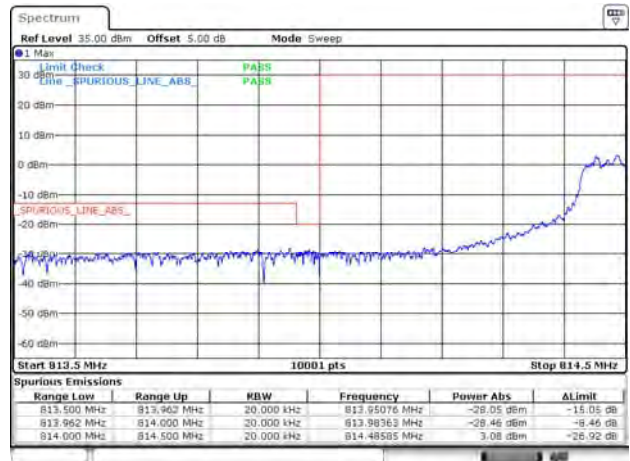
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Cat M1_Band 26_CH26715_5M_QPSK_6RB0



Date: 19 SEP 2016 14:27:53

Cat M1_Band 26_CH26715_5M_16-QAM_5RB1



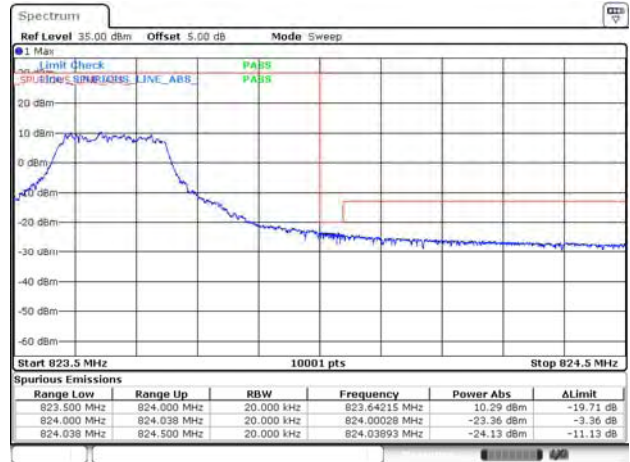
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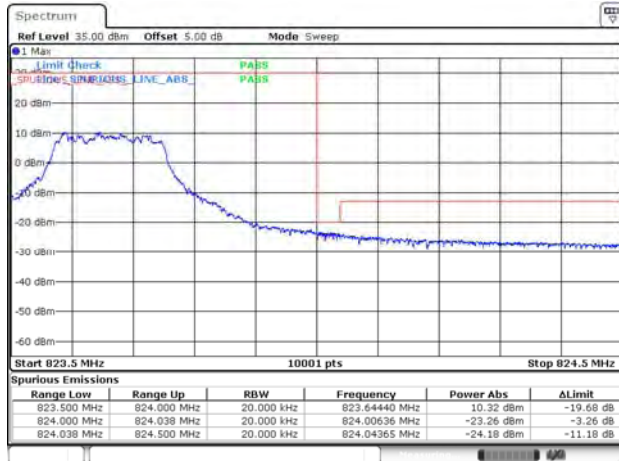
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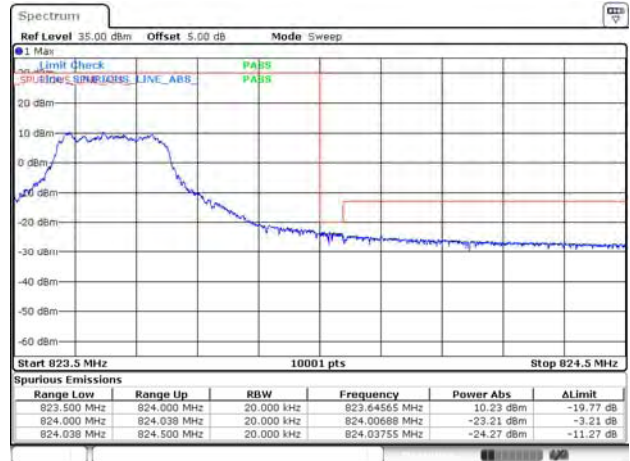
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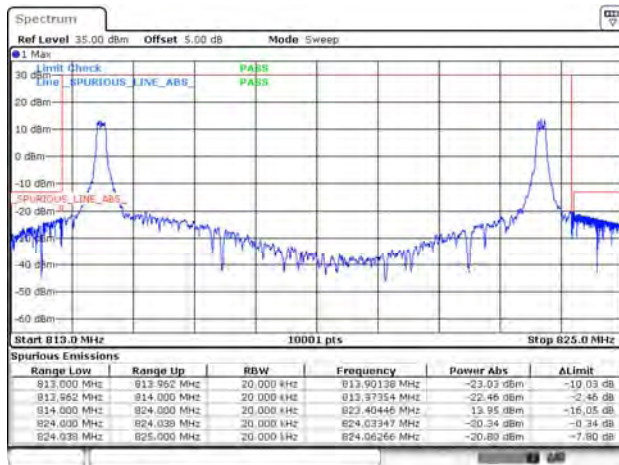
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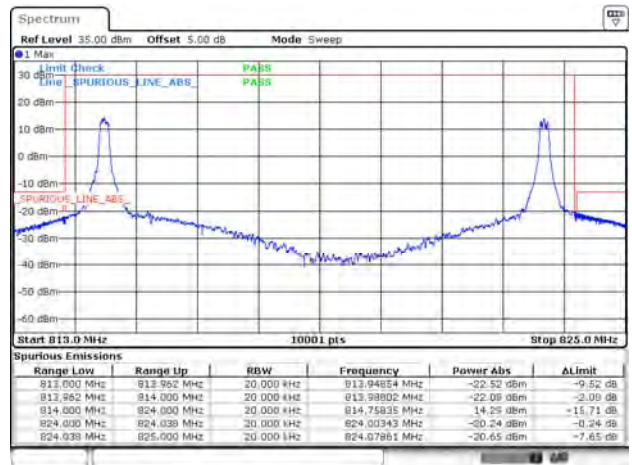
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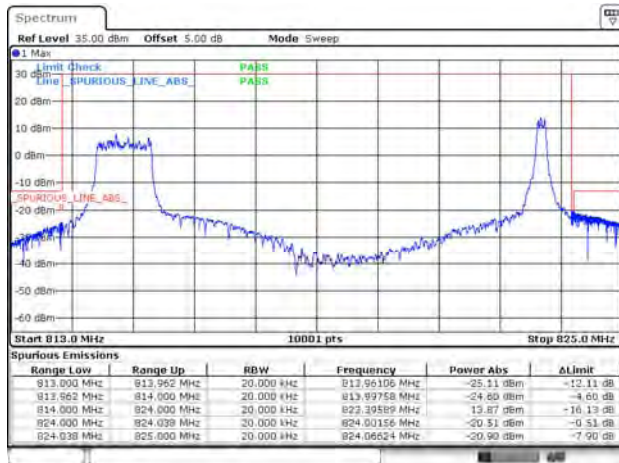
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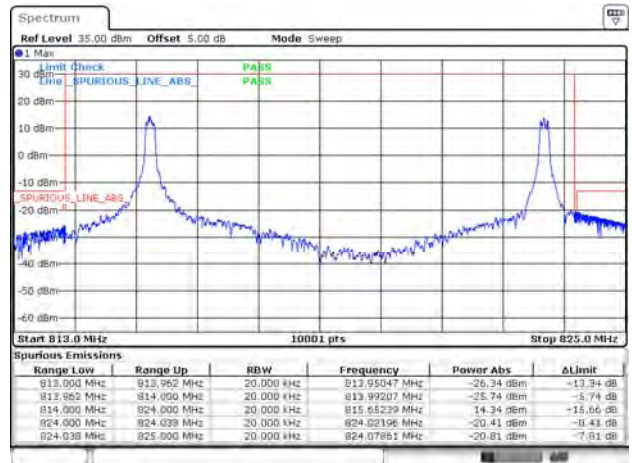
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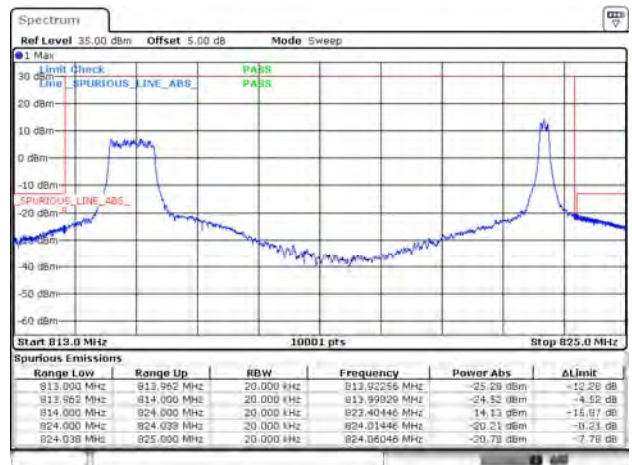
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Cat M1_Band 26_CH26740_10M_16-QAM_1RB5



Date: 19-SEP-2018 17:45:09

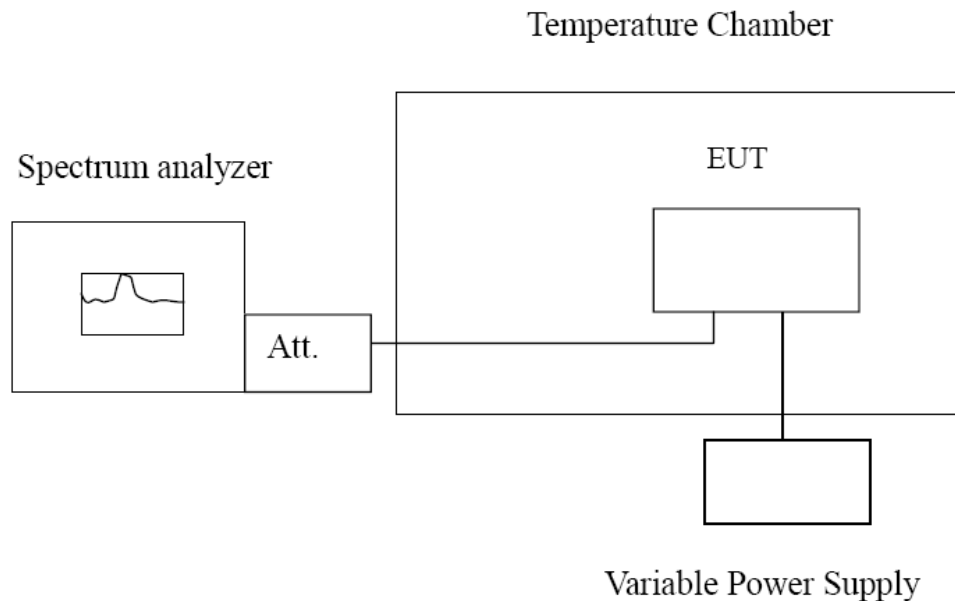
Cat M1_Band 26_CH26740_10M_16-QAM_5RB1



Date: 19-SEP-2018 17:53:11

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 | ME910C1-WW | | |
| Test Item | Frequency Stability Under Temperature & Voltage Variations | | |
| Test Mode | Mode 1: LTE Band 2 | | |
| Date of Test | 2018/09/10 | Test Site | SR10-H |

CAT-M1 Band 2 – 1860MHz

Voltage

| Voltage (VDC) | Frequency Error (Hz) | Frequency Error (ppm) |
|---------------|----------------------|-----------------------|
| 4.2 | 22 | -0.0327 |
| 3.8 | -5 | 0.0074 |
| 3.4 | -13 | 0.0193 |

Temperature

| Temperature | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------|----------------------|-----------------------|
| -30 | -20 | 0.0297 |
| -20 | -3 | 0.0045 |
| -10 | -21 | 0.0312 |
| 0 | 9 | -0.0134 |
| 10 | -15 | 0.0223 |
| 20 | 24 | -0.0357 |
| 30 | 14 | -0.0208 |
| 40 | 7 | -0.0104 |
| 50 | 14 | -0.0208 |

CAT-M1 Band 2 – 1880MHz

Voltage

| Voltage (VDC) | Frequency Error (Hz) | Frequency Error (ppm) |
|---------------|----------------------|-----------------------|
| 4.2 | -15 | 0.0223 |
| 3.8 | -22 | 0.0327 |
| 3.4 | -27 | 0.0401 |

Temperature

| Temperature | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------|----------------------|-----------------------|
| -30 | 8 | -0.0119 |
| -20 | -5 | 0.0074 |
| -10 | 6 | -0.0089 |
| 0 | -29 | 0.0431 |
| 10 | 18 | -0.0267 |
| 20 | 6 | -0.0089 |
| 30 | 3 | -0.0045 |
| 40 | -24 | 0.0357 |
| 50 | -15 | 0.0223 |

CAT-M1 Band 2 – 1900MHz

Voltage

| Voltage (VDC) | Frequency Error (Hz) | Frequency Error (ppm) |
|---------------|----------------------|-----------------------|
| 4.2 | 9 | -0.0132 |
| 3.8 | 22 | -0.0323 |
| 3.4 | -11 | 0.0162 |

Temperature

| Temperature | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------|----------------------|-----------------------|
| -30 | -35 | 0.0514 |
| -20 | -20 | 0.0294 |
| -10 | -5 | 0.0073 |
| 0 | -5 | 0.0073 |
| 10 | 20 | -0.0294 |
| 20 | 23 | -0.0338 |
| 30 | 9 | -0.0132 |
| 40 | -20 | 0.0294 |
| 50 | -32 | 0.0470 |

| | | | |
|--------------|--|-----------|--------|
| Product | ME910C1-WW | | |
| Test Item | Frequency Stability Under Temperature & Voltage Variations | | |
| Test Mode | Mode 2: LTE Band 4 | | |
| Date of Test | 2018/09/10 | Test Site | SR10-H |

CAT-M1 Band 4 – 1720MHz

Voltage

| Voltage (VDC) | Frequency Error (Hz) | Frequency Error (ppm) |
|---------------|----------------------|-----------------------|
| 4.2 | 4 | -0.0058 |
| 3.8 | -3 | 0.0043 |
| 3.4 | -3 | 0.0043 |

Temperature

| Temperature | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------|----------------------|-----------------------|
| -30 | -38 | 0.0546 |
| -20 | 15 | -0.0216 |
| -10 | -1 | 0.0014 |
| 0 | 21 | -0.0302 |
| 10 | -29 | 0.0417 |
| 20 | 10 | -0.0144 |
| 30 | 8 | -0.0115 |
| 40 | -27 | 0.0388 |
| 50 | -7 | 0.0101 |

CAT-M1 Band 4 – 1732.5MHz

Voltage

| Voltage (VDC) | Frequency Error (Hz) | Frequency Error (ppm) |
|---------------|----------------------|-----------------------|
| 4.2 | 5 | -0.0072 |
| 3.8 | 15 | -0.0216 |
| 3.4 | -26 | 0.0374 |

Temperature

| Temperature | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------|----------------------|-----------------------|
| -30 | -13 | 0.0187 |
| -20 | 24 | -0.0345 |
| -10 | -27 | 0.0388 |
| 0 | -29 | 0.0417 |
| 10 | -40 | 0.0575 |
| 20 | 11 | -0.0158 |
| 30 | -10 | 0.0144 |
| 40 | -42 | 0.0604 |
| 50 | 10 | -0.0144 |

CAT-M1 Band 4 – 1745MHz

Voltage

| Voltage (VDC) | Frequency Error (Hz) | Frequency Error (ppm) |
|---------------|----------------------|-----------------------|
| 4.2 | 20 | -0.0294 |
| 3.8 | 3 | -0.0044 |
| 3.4 | -21 | 0.0309 |

Temperature

| Temperature | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------|----------------------|-----------------------|
| -30 | -3 | 0.0044 |
| -20 | -36 | 0.0529 |
| -10 | 23 | -0.0338 |
| 0 | 23 | -0.0338 |
| 10 | 15 | -0.0220 |
| 20 | 5 | -0.0073 |
| 30 | 6 | -0.0088 |
| 40 | -28 | 0.0411 |
| 50 | 3 | -0.0044 |

| | | | |
|--------------|--|-----------|--------|
| Product | ME910C1-WW | | |
| Test Item | Frequency Stability Under Temperature & Voltage Variations | | |
| Test Mode | Mode 3: LTE Band 5 | | |
| Date of Test | 2018/09/10 | Test Site | SR10-H |

CAT-M1 Band 5 – 829MHz

Voltage

| Voltage (VDC) | Frequency Error (Hz) | Frequency Error (ppm) |
|---------------|----------------------|-----------------------|
| 4.2 | 7 | -0.0104 |
| 3.8 | -4 | 0.0059 |
| 3.4 | 15 | -0.0223 |

Temperature

| Temperature | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------|----------------------|-----------------------|
| -30 | 17 | -0.0253 |
| -20 | 22 | -0.0327 |
| -10 | -13 | 0.0193 |
| 0 | 25 | -0.0371 |
| 10 | 21 | -0.0312 |
| 20 | -1 | 0.0015 |
| 30 | 3 | -0.0045 |
| 40 | -39 | 0.0579 |
| 50 | -36 | 0.0535 |

CAT-M1 Band 5 – 836.5MHz

Voltage

| Voltage (VDC) | Frequency Error (Hz) | Frequency Error (ppm) |
|---------------|----------------------|-----------------------|
| 4.2 | 9 | -0.0132 |
| 3.8 | -21 | 0.0309 |
| 3.4 | -20 | 0.0294 |

Temperature

| Temperature | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------|----------------------|-----------------------|
| -30 | 14 | -0.0206 |
| -20 | 6 | -0.0088 |
| -10 | -10 | 0.0147 |
| 0 | -28 | 0.0411 |
| 10 | -38 | 0.0558 |
| 20 | -40 | 0.0588 |
| 30 | 8 | -0.0118 |
| 40 | -35 | 0.0514 |
| 50 | 17 | -0.0250 |

CAT-M1 Band 5 – 844MHz

Voltage

| Voltage (VDC) | Frequency Error (Hz) | Frequency Error (ppm) |
|---------------|----------------------|-----------------------|
| 4.2 | 5 | -0.0072 |
| 3.8 | -29 | 0.0417 |
| 3.4 | -20 | 0.0288 |

Temperature

| Temperature | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------|----------------------|-----------------------|
| -30 | 13 | -0.0187 |
| -20 | -37 | 0.0532 |
| -10 | -41 | 0.0590 |
| 0 | -37 | 0.0532 |
| 10 | -3 | 0.0043 |
| 20 | -32 | 0.0460 |
| 30 | 6 | -0.0086 |
| 40 | -28 | 0.0403 |
| 50 | 22 | -0.0316 |

| | | | |
|--------------|--|-----------|--------|
| Product | ME910C1-WW | | |
| Test Item | Frequency Stability Under Temperature & Voltage Variations | | |
| Test Mode | Mode 4: LTE Band 26 (Part 22) | | |
| Date of Test | 2018/09/10 | Test Site | SR10-H |

CAT-M1 Band 26 – 831.5MHz

Voltage

| Voltage (VDC) | Frequency Error (Hz) | Frequency Error (ppm) |
|---------------|----------------------|-----------------------|
| 4.2 | -11 | 0.0158 |
| 3.8 | 17 | -0.0250 |
| 3.4 | 9 | -0.0132 |

Temperature

| Temperature | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------|----------------------|-----------------------|
| -30 | -4 | 0.0059 |
| -20 | 8 | -0.0118 |
| -10 | 17 | -0.0250 |
| 0 | -20 | 0.0294 |
| 10 | -28 | 0.0411 |
| 20 | 10 | -0.0147 |
| 30 | 22 | -0.0323 |
| 40 | 7 | -0.0103 |
| 50 | 20 | -0.0294 |

CAT-M1 Band 26 – 836.5MHz

Voltage

| Voltage (VDC) | Frequency Error (Hz) | Frequency Error (ppm) |
|---------------|----------------------|-----------------------|
| 4.2 | -37 | 0.0550 |
| 3.8 | 15 | -0.0223 |
| 3.4 | -21 | 0.0312 |

Temperature

| Temperature | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------|----------------------|-----------------------|
| -30 | -31 | 0.0461 |
| -20 | 22 | -0.0327 |
| -10 | -26 | 0.0386 |
| 0 | -25 | 0.0371 |
| 10 | 23 | -0.0342 |
| 20 | -5 | 0.0074 |
| 30 | -40 | 0.0594 |
| 40 | -31 | 0.0461 |
| 50 | -27 | 0.0401 |

CAT-M1 Band 26 – 841.5MHz

Voltage

| Voltage (VDC) | Frequency Error (Hz) | Frequency Error (ppm) |
|---------------|----------------------|-----------------------|
| 4.2 | 5 | -0.0072 |
| 3.8 | 20 | -0.0288 |
| 3.4 | 16 | -0.0230 |

Temperature

| Temperature | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------|----------------------|-----------------------|
| -30 | -5 | 0.0072 |
| -20 | -31 | 0.0446 |
| -10 | -21 | 0.0302 |
| 0 | 17 | -0.0244 |
| 10 | 14 | -0.0201 |
| 20 | -42 | 0.0604 |
| 30 | -39 | 0.0561 |
| 40 | 8 | -0.0115 |
| 50 | 19 | -0.0273 |

| | | | |
|--------------|--|-----------|--------|
| Product | ME910C1-WW | | |
| Test Item | Frequency Stability Under Temperature & Voltage Variations | | |
| Test Mode | Mode 4: LTE Band 26 (Part 90) | | |
| Date of Test | 2018/09/10 | Test Site | SR10-H |

CAT-M1 Band 26 – 816.5MHz

Voltage

| Voltage (VDC) | Frequency Error (Hz) | Frequency Error (ppm) |
|---------------|----------------------|-----------------------|
| 4.2 | -21 | 0.0312 |
| 3.8 | -26 | 0.0386 |
| 3.4 | -15 | 0.0223 |

Temperature

| Temperature | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------|----------------------|-----------------------|
| -30 | -27 | 0.0401 |
| -20 | -34 | 0.0505 |
| -10 | 23 | -0.0342 |
| 0 | -32 | 0.0475 |
| 10 | -10 | 0.0149 |
| 20 | -1 | 0.0015 |
| 30 | -3 | 0.0045 |
| 40 | -6 | 0.0089 |
| 50 | -34 | 0.0505 |

CAT-M1 Band 26 – 819MHz

Voltage

| Voltage (VDC) | Frequency Error (Hz) | Frequency Error (ppm) |
|---------------|----------------------|-----------------------|
| 4.2 | -40 | 0.0588 |
| 3.8 | -37 | 0.0544 |
| 3.4 | -23 | 0.0338 |

Temperature

| Temperature | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------|----------------------|-----------------------|
| -30 | 17 | -0.0250 |
| -20 | 1 | -0.0015 |
| -10 | 8 | -0.0118 |
| 0 | -27 | 0.0397 |
| 10 | -7 | 0.0103 |
| 20 | -36 | 0.0529 |
| 30 | -33 | 0.0485 |
| 40 | 17 | -0.0250 |
| 50 | -27 | 0.0397 |

CAT-M1 Band 26 – 821.5MHz

Voltage

| Voltage (VDC) | Frequency Error (Hz) | Frequency Error (ppm) |
|---------------|----------------------|-----------------------|
| 4.2 | 5 | -0.0072 |
| 3.8 | 21 | -0.0302 |
| 3.4 | -23 | 0.0331 |

Temperature

| Temperature | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------|----------------------|-----------------------|
| -30 | -30 | 0.0431 |
| -20 | 3 | -0.0043 |
| -10 | 6 | -0.0086 |
| 0 | 9 | -0.0129 |
| 10 | -23 | 0.0331 |
| 20 | 3 | -0.0043 |
| 30 | 20 | -0.0288 |
| 40 | -18 | 0.0259 |
| 50 | -25 | 0.0359 |

Attachment 1

➤ **Test Setup Photograph**
<Radiated Emission>

Description : Front View of Radiated Emission Test Setup (Bilog)



Description : Back View of Radiated Emission Test Setup (Bilog)



Description : Front View of Radiated Emission Test Setup (Horn)



Description : Back View of Radiated Emission Test Setup (Horn)



Description: Detailed View of Radiated emission Test Setup



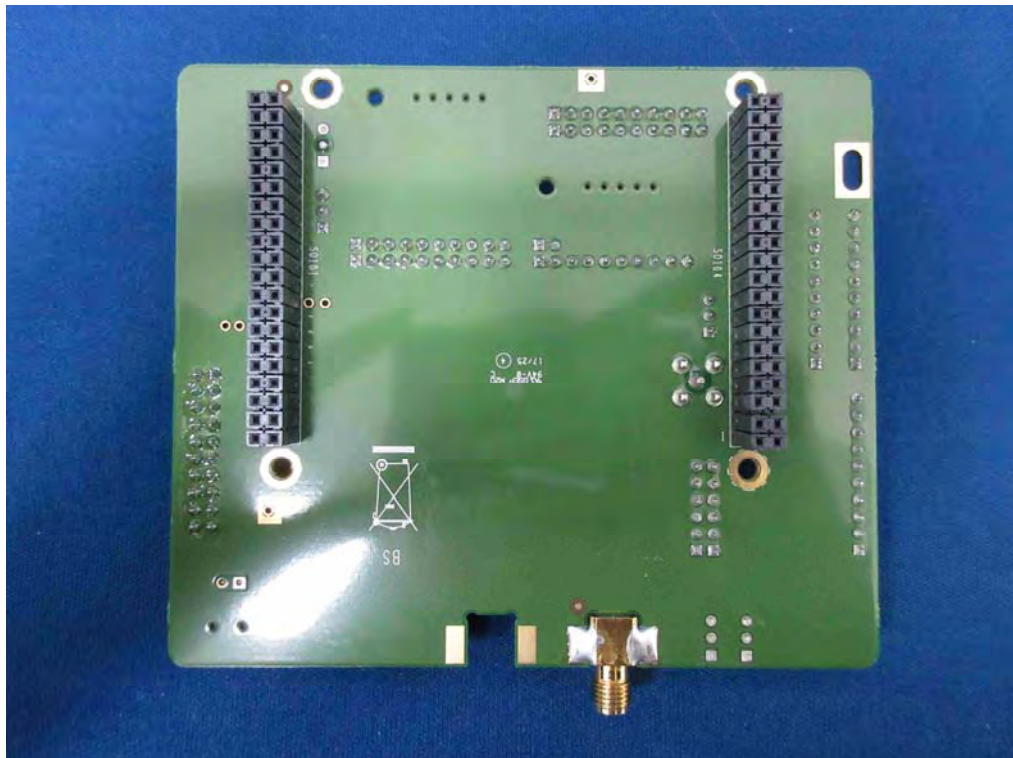
Attachment 2

➤ EUT External Photograph

(1) EUT Photo



(2) EUT Photo



(3) EUT Photo (Antenna)



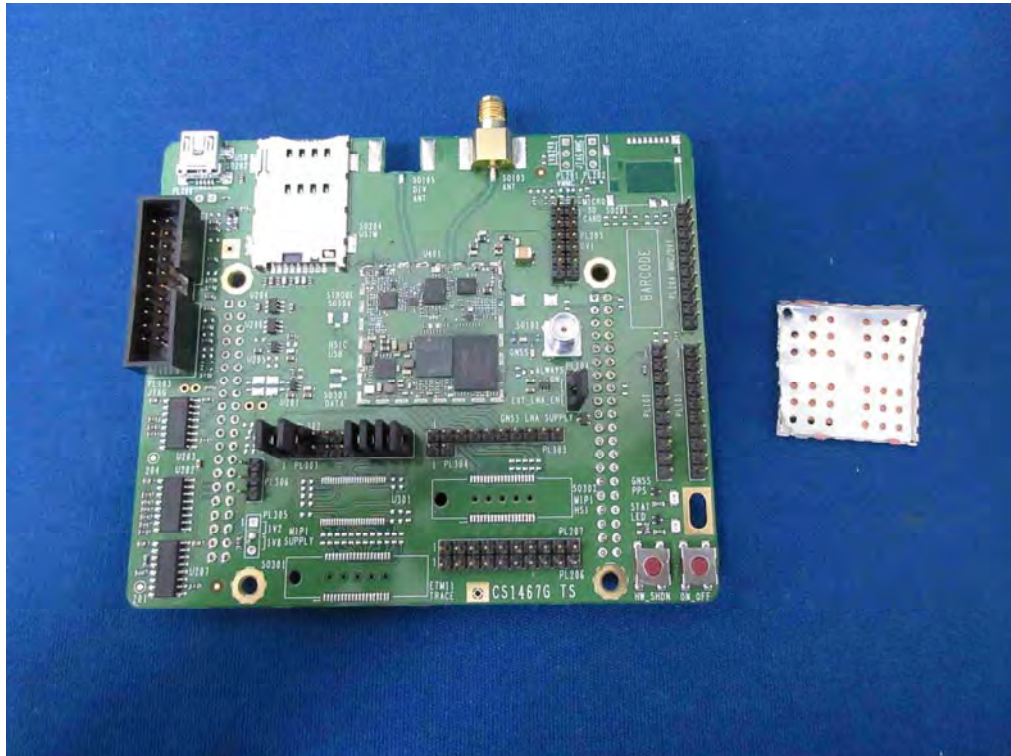
(4) EUT Photo



Attachment 3

➤ EUT Internal Photograph

(1) EUT Photo



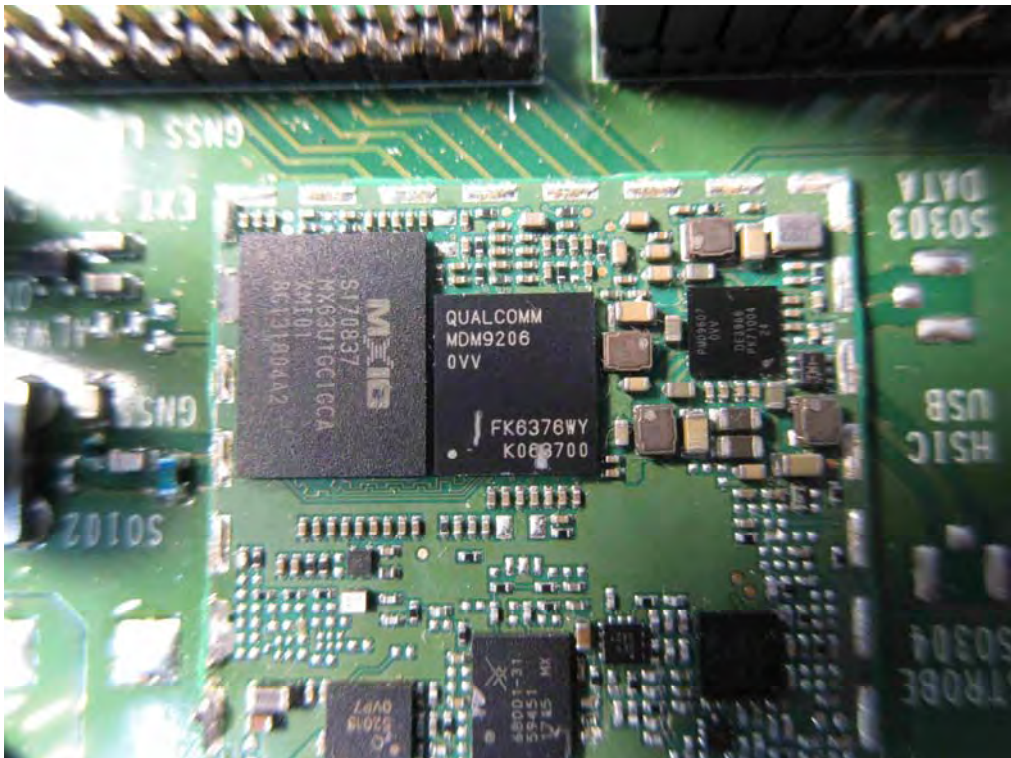
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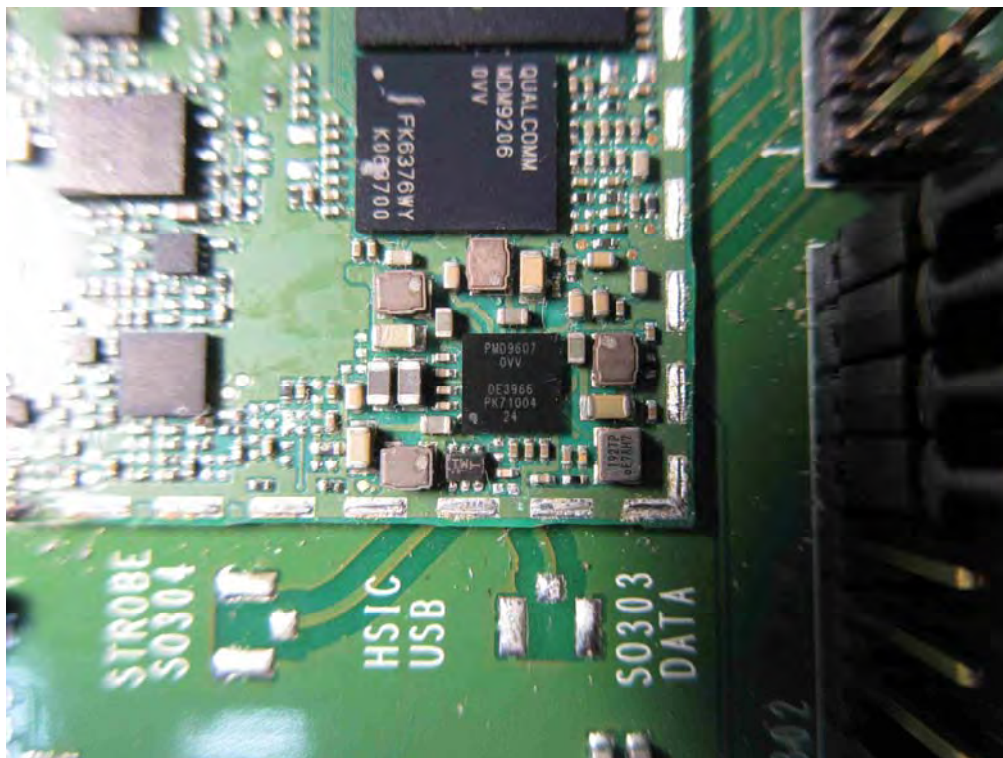
(3) EUT Photo



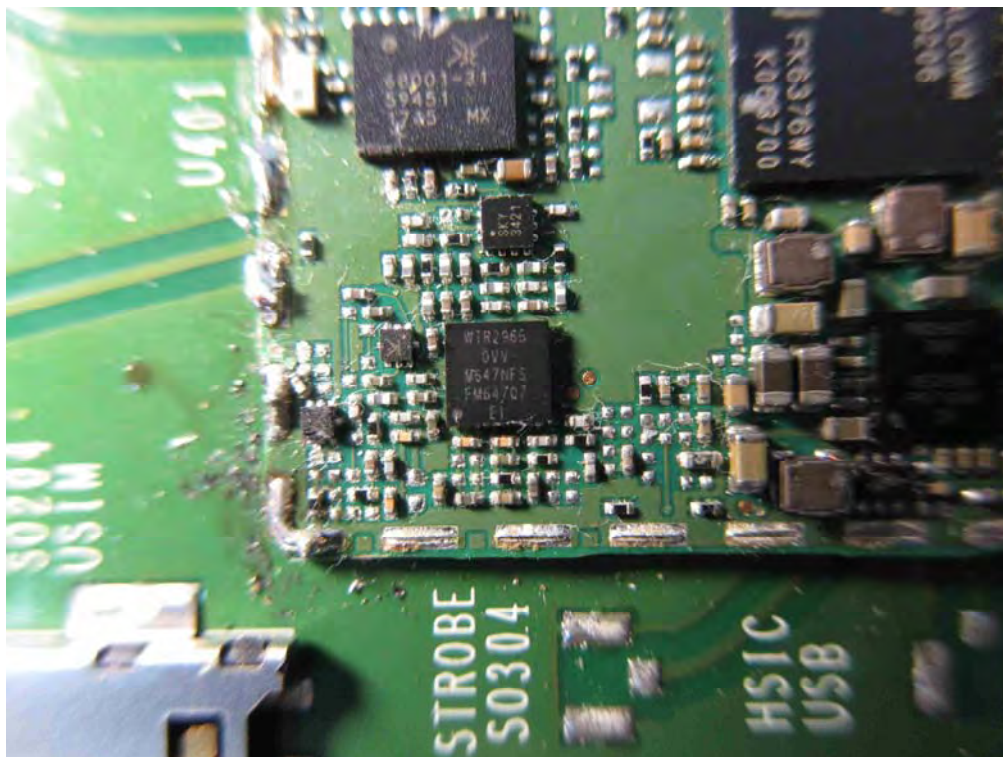
(4) EUT Photo



(5) EUT Photo



(6) EUT Photo



(7) EUT Photo

