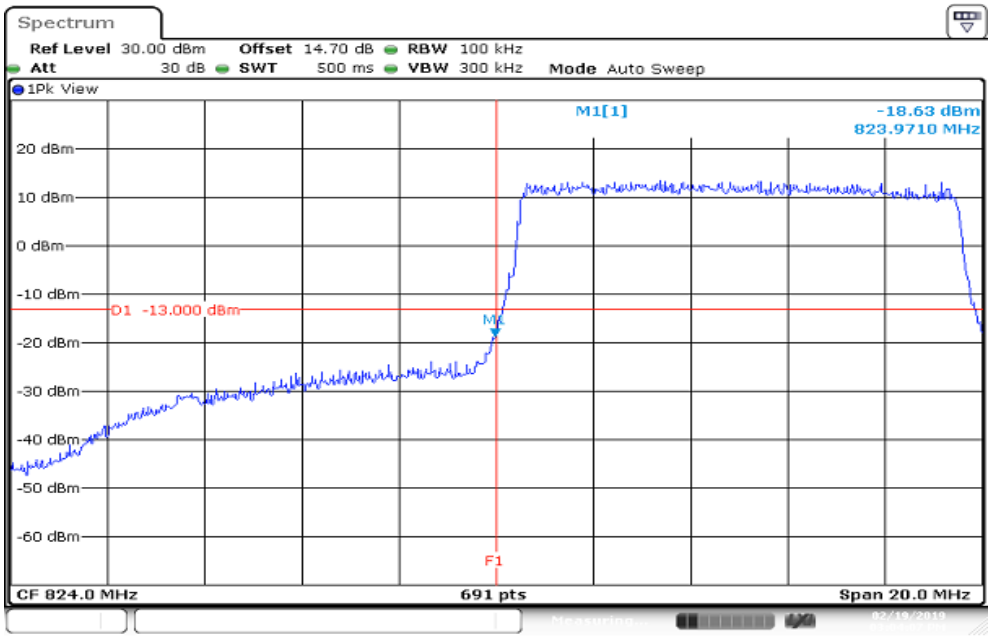
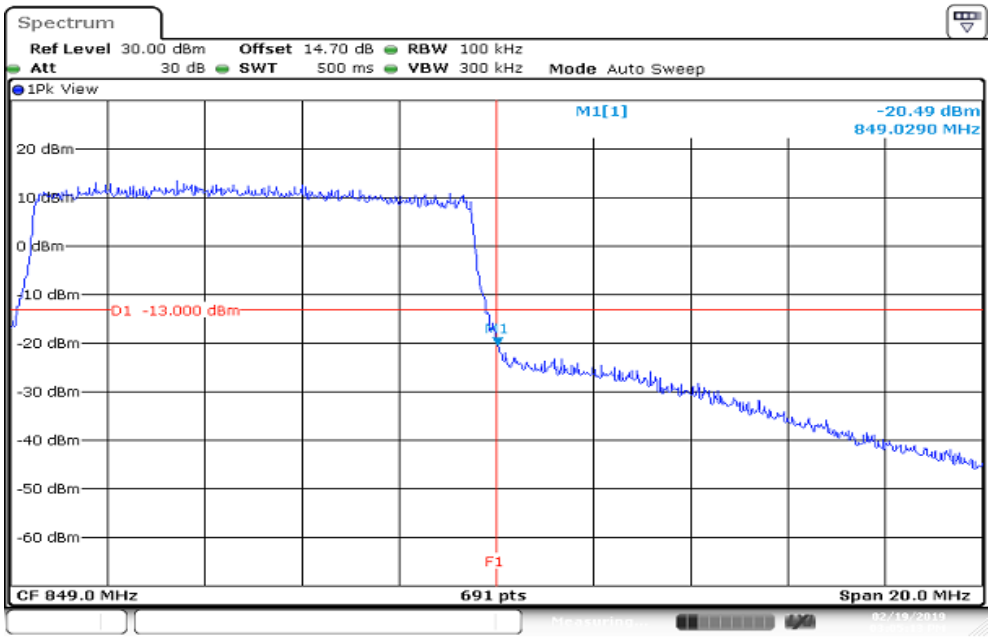
CHANNEL BANDWIDTH: 10MHz / 16QAM / 100%RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 15:04:08

HIGHER BAND EDGE



Date: 19.FEB.2019 15:05:14

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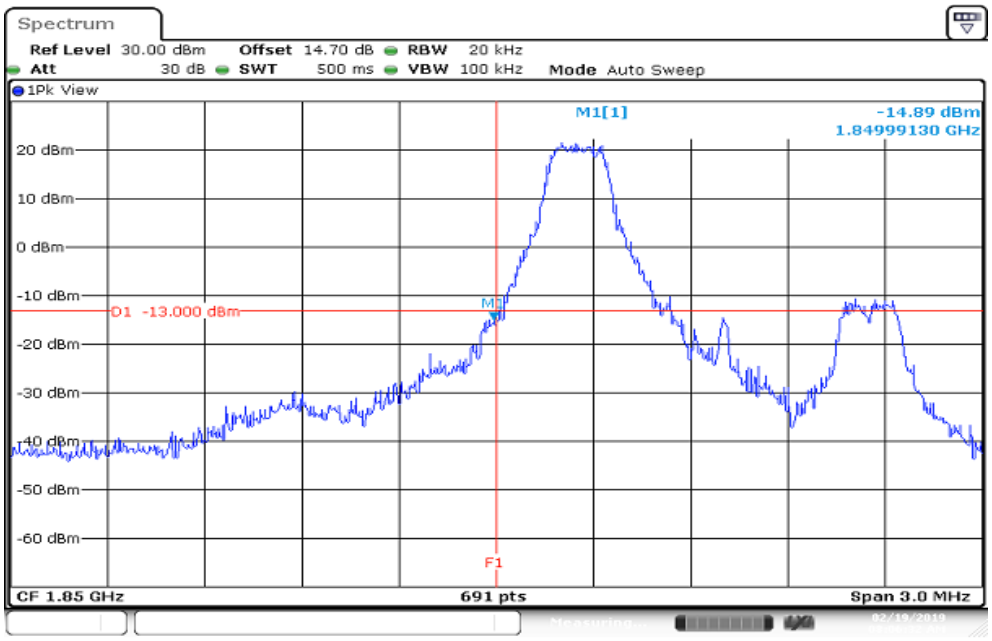
LTE Band 2

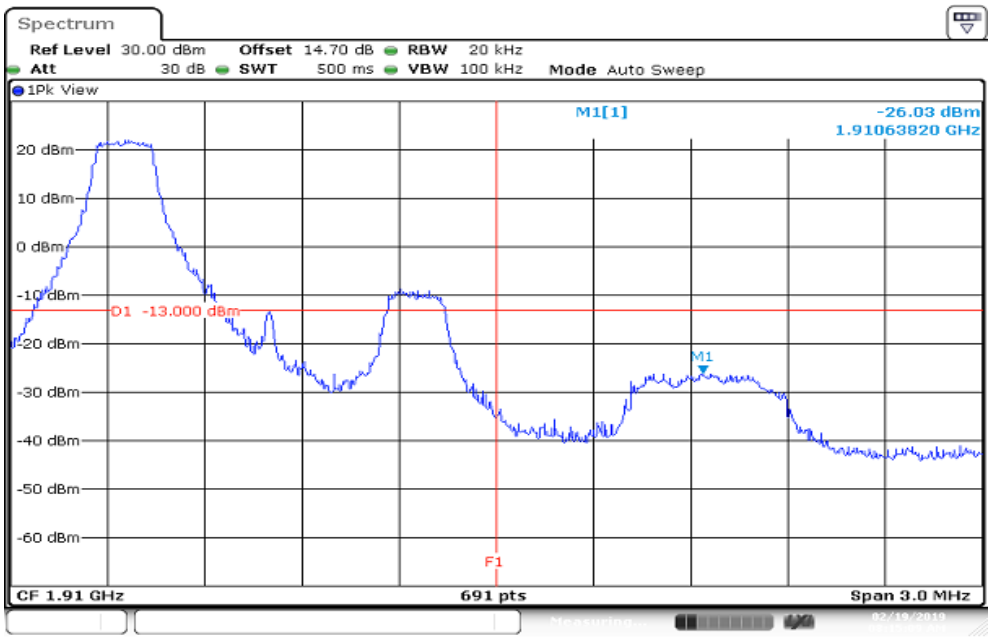
CHANNEL BANDWIDTH: 1.4MHz / QPSK / 1 RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 08:06:33

HIGHER BAND EDGE



Date: 19.FEB.2019 08:15:10

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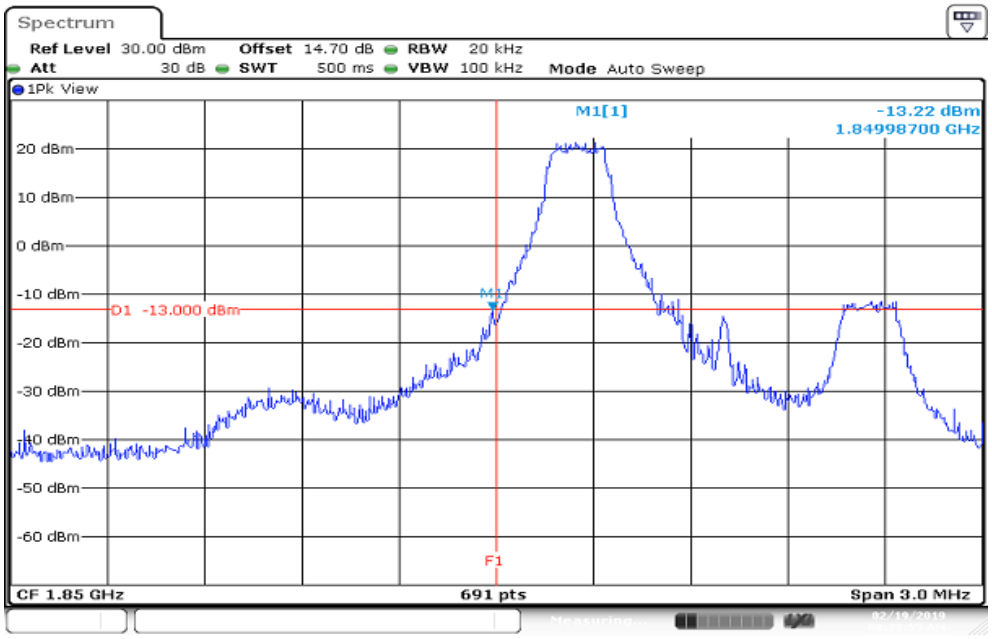
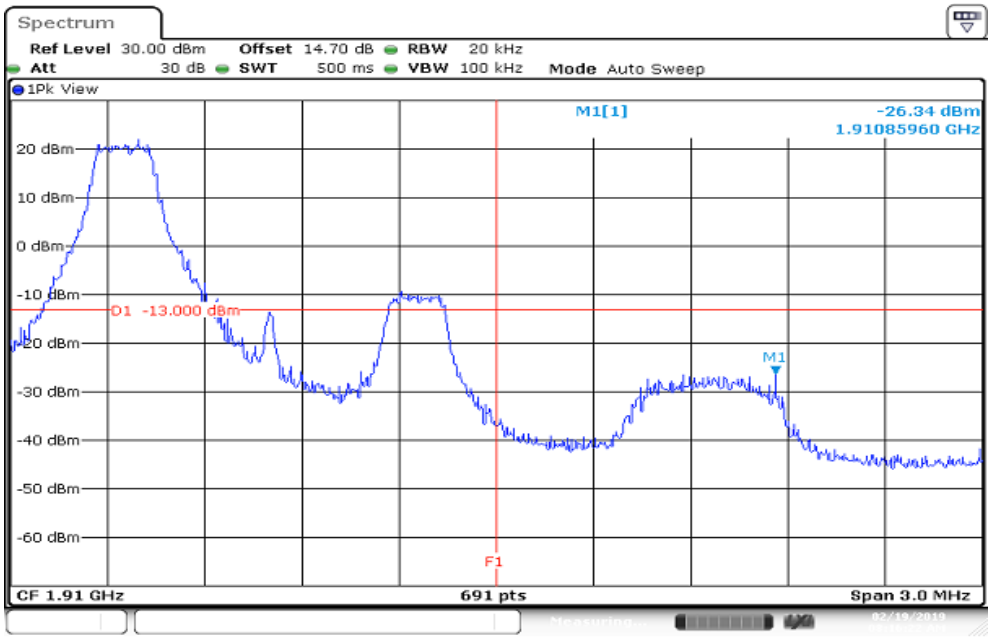
CHANNEL BANDWIDTH: 1.4MHz / 16QAM / 1 RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 08:23:55

HIGHER BAND EDGE



Date: 19.FEB.2019 08:16:23

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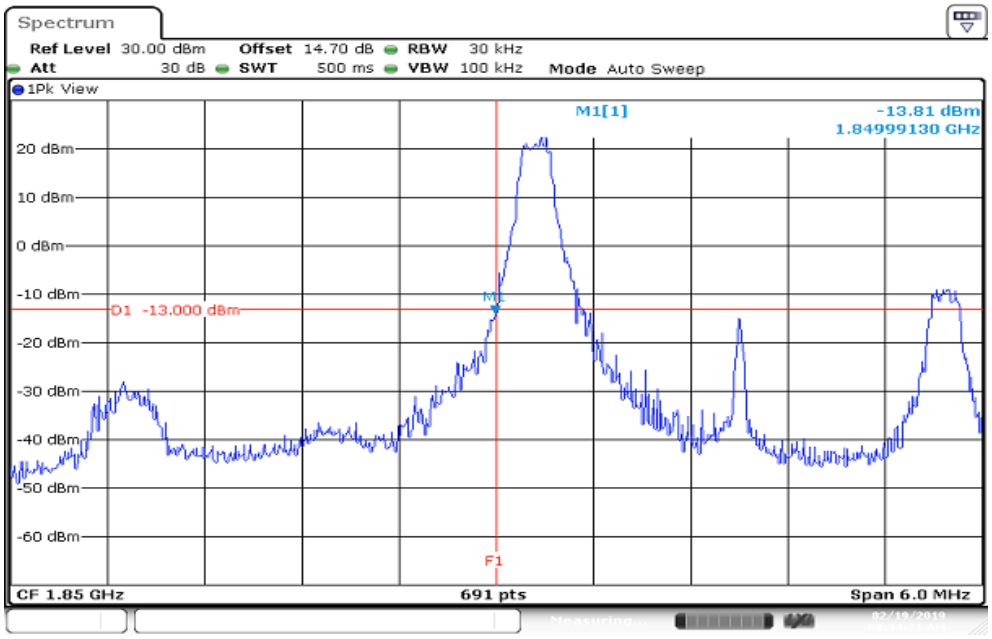
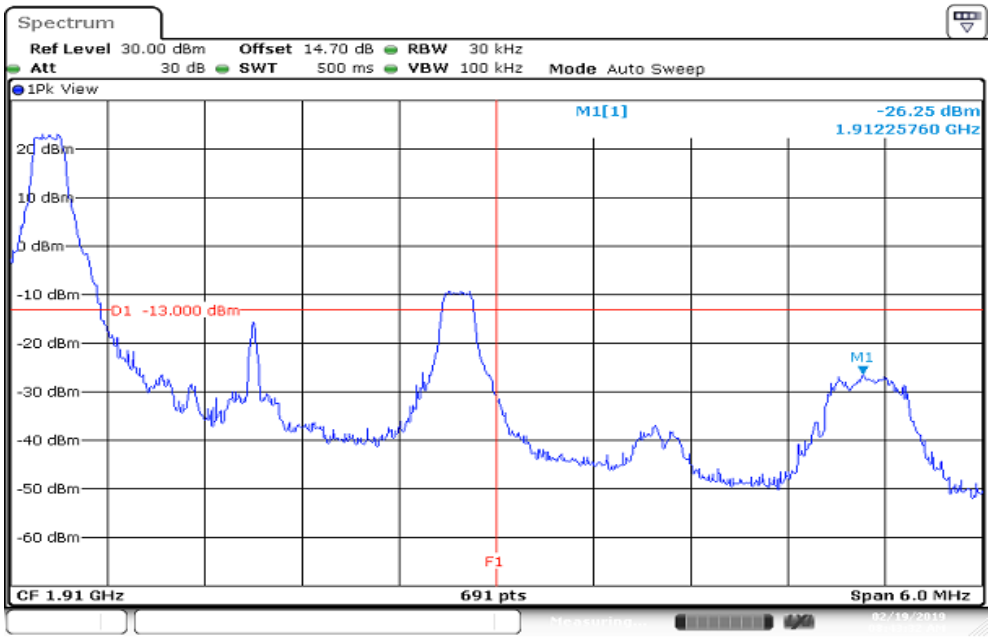
CHANNEL BANDWIDTH: 3MHz / QPSK / 1 RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 08:34:32

HIGHER BAND EDGE



Date: 19.FEB.2019 08:43:33

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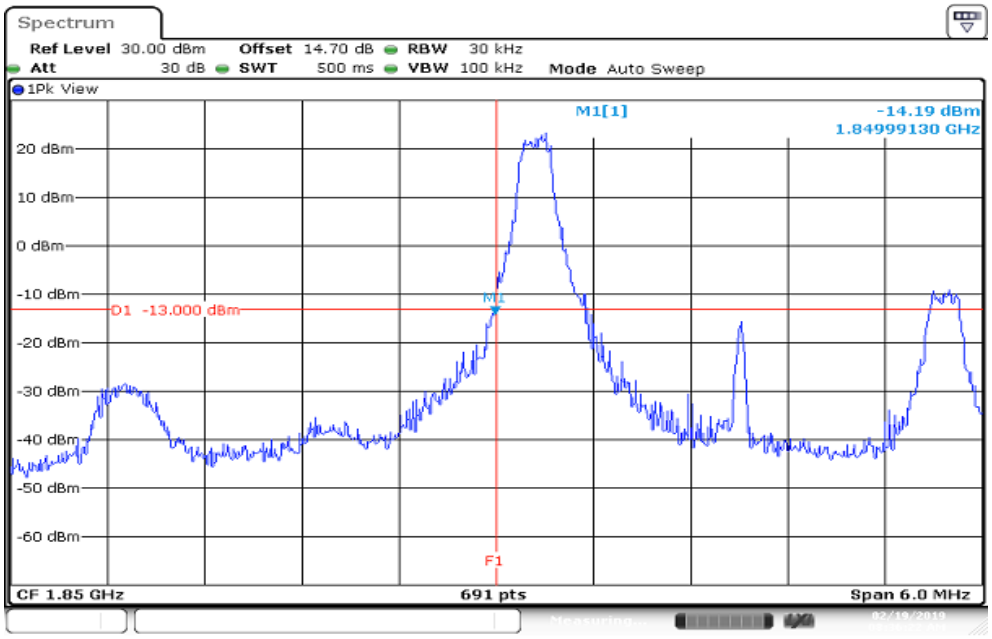
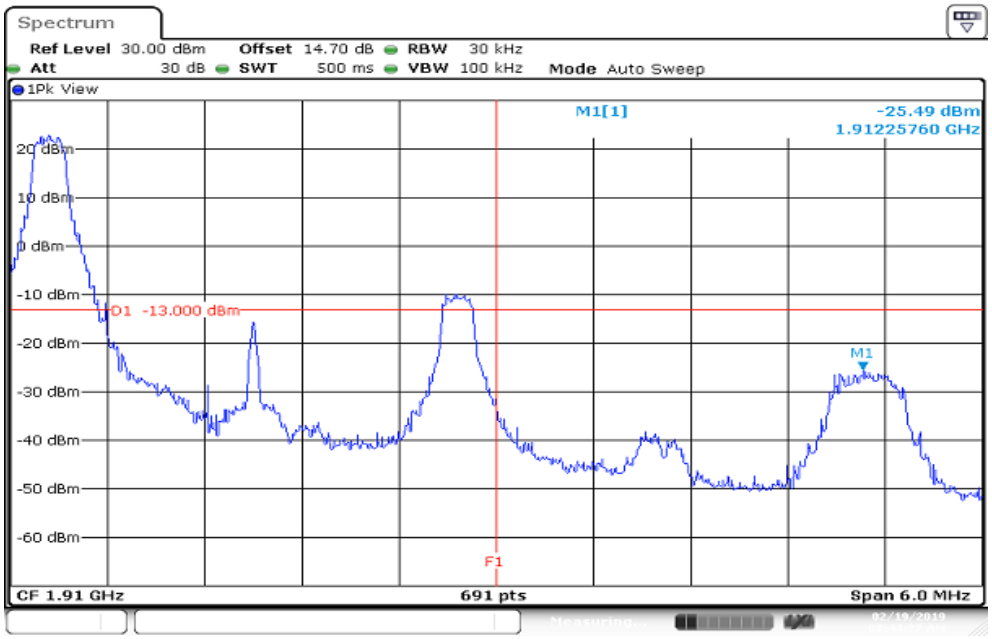
CHANNEL BANDWIDTH: 3MHz / 16QAM / 1 RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 08:36:23

HIGHER BAND EDGE



Date: 19.FEB.2019 08:44:27

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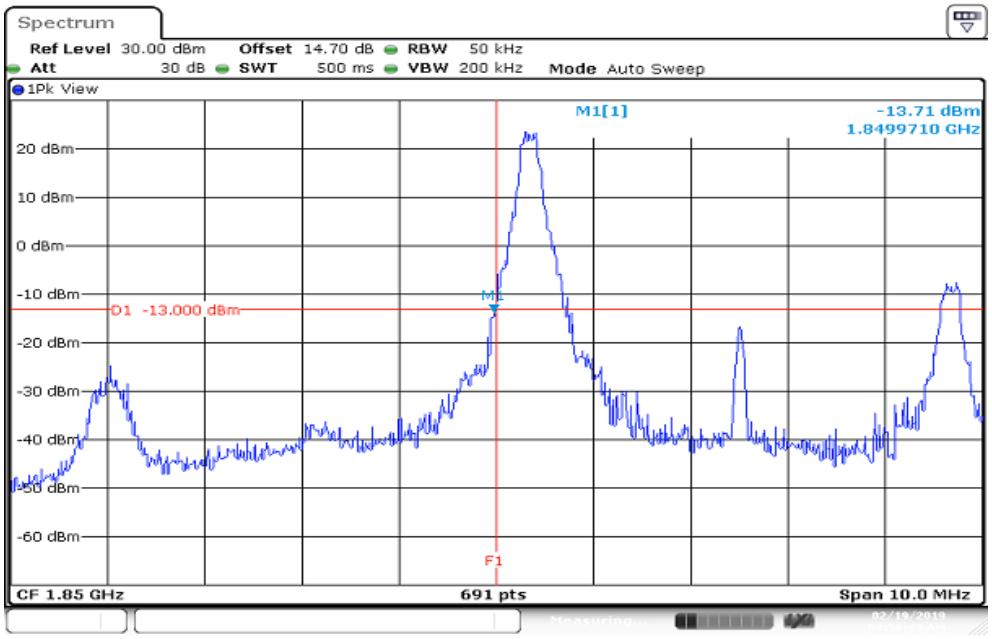
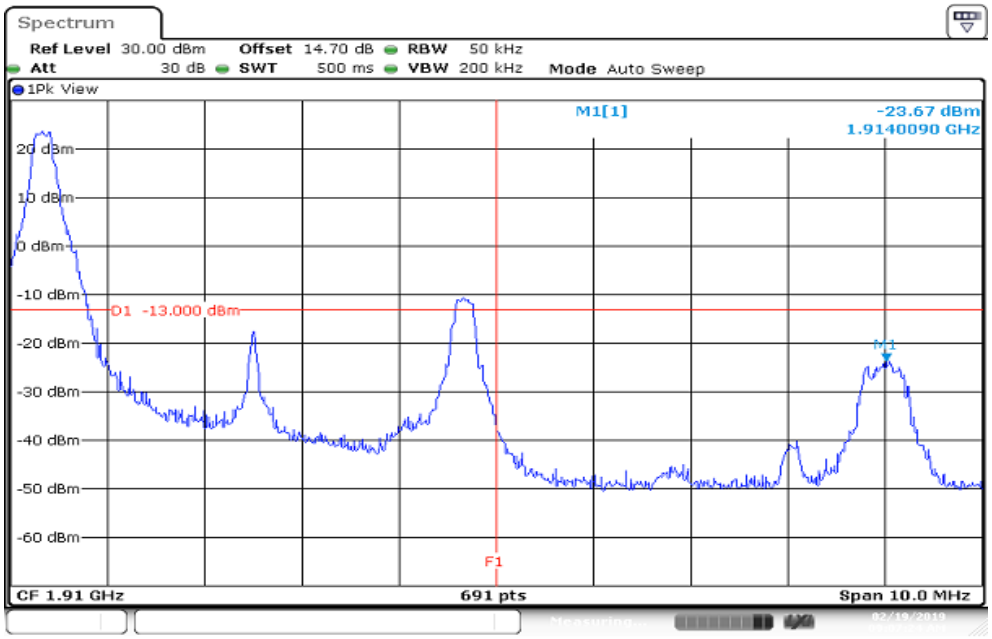
CHANNEL BANDWIDTH: 5MHz / QPSK / 1 RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 08:58:43

HIGHER BAND EDGE



Date: 19.FEB.2019 09:07:24

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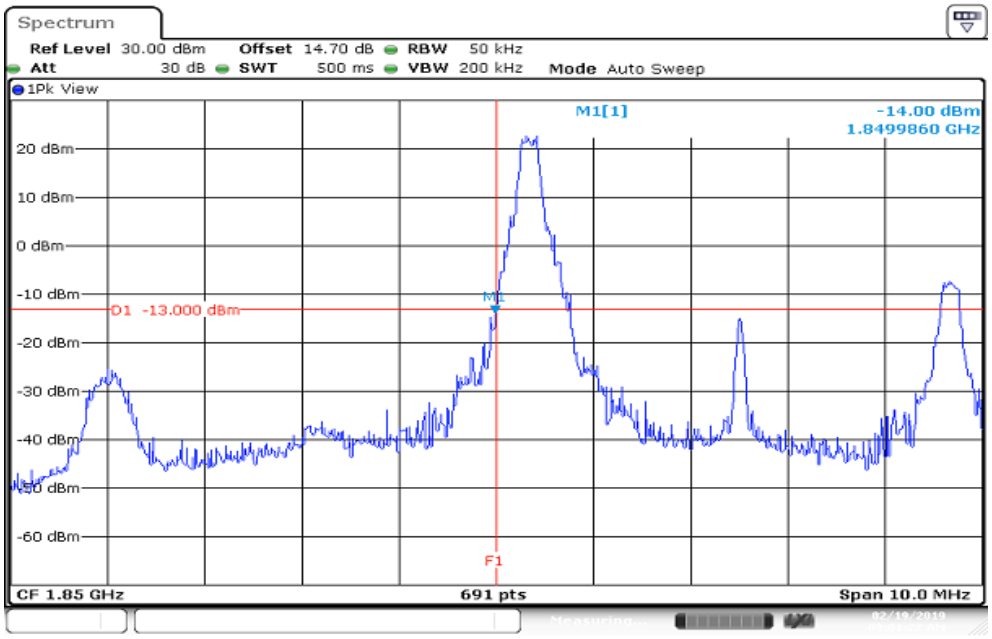
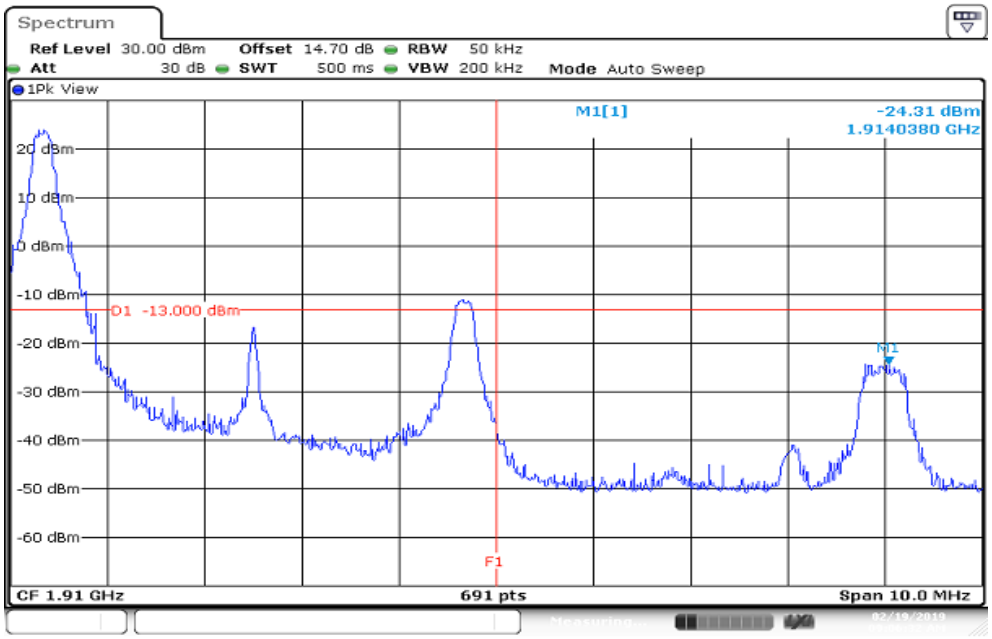
CHANNEL BANDWIDTH: 5MHz / 16QAM / 1 RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 09:01:22

HIGHER BAND EDGE



Date: 19.FEB.2019 09:06:33

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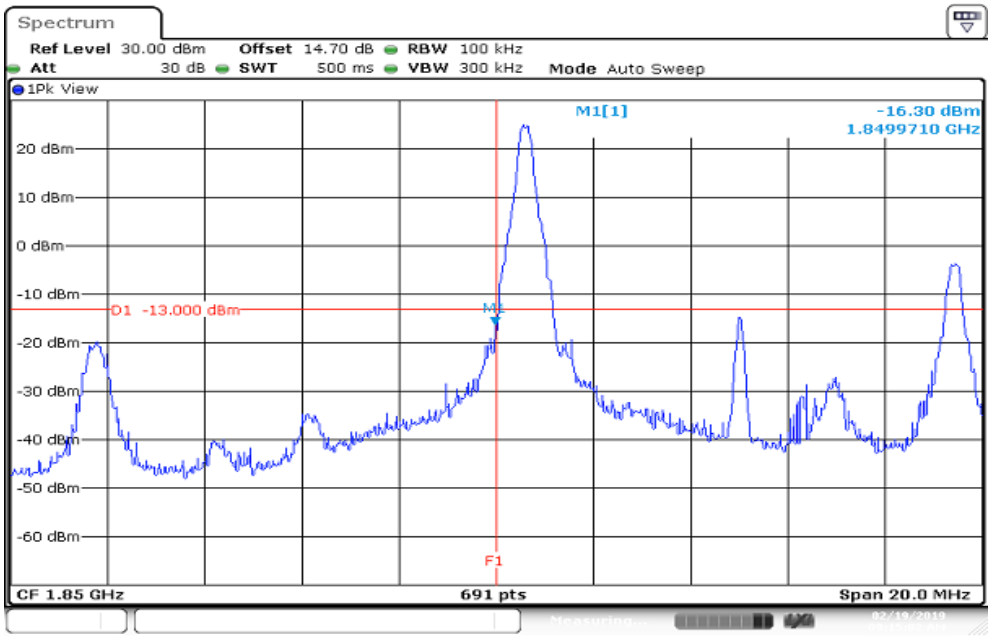
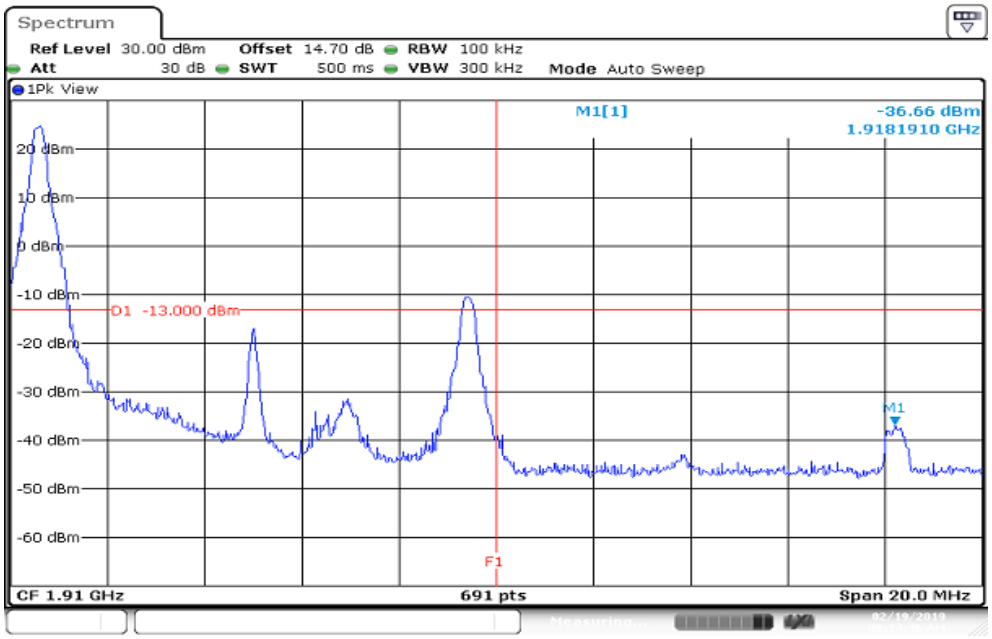
CHANNEL BANDWIDTH: 10MHz / QPSK / 1 RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 09:15:03

HIGHER BAND EDGE



Date: 19.FEB.2019 09:24:47

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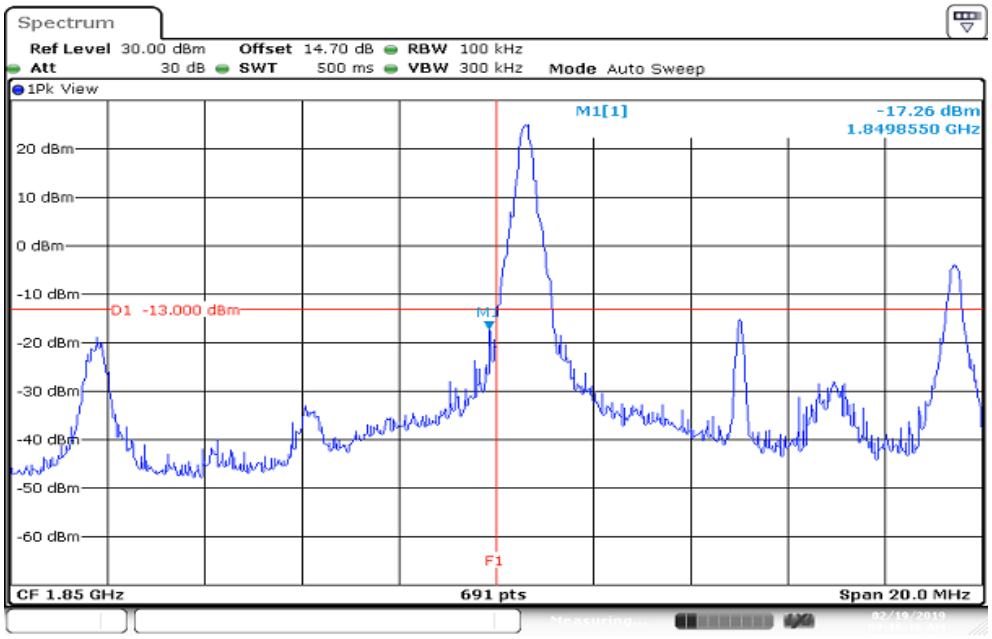
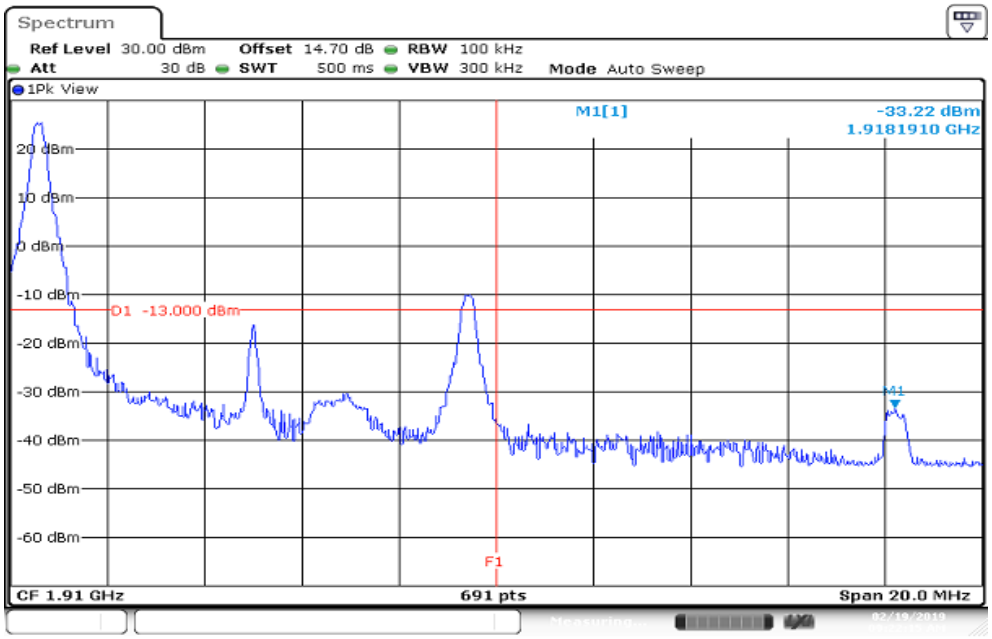
CHANNEL BANDWIDTH: 10MHz / 16QAM / 1 RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 09:16:16

HIGHER BAND EDGE



Date: 19.FEB.2019 09:22:16

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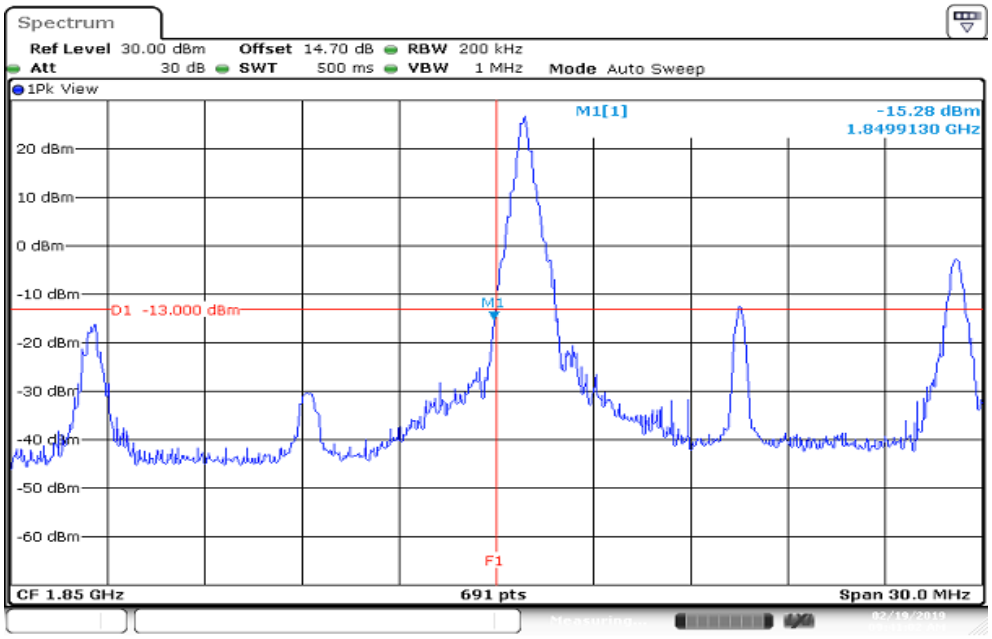
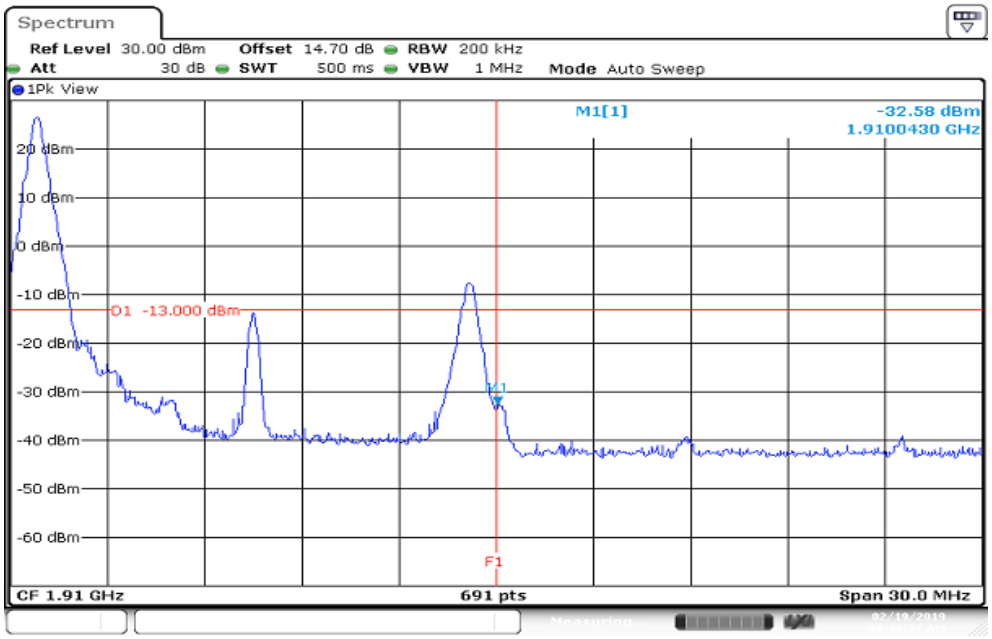
CHANNEL BANDWIDTH: 15MHz / QPSK / 1 RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 09:41:02

HIGHER BAND EDGE



Date: 19.FEB.2019 09:48:37

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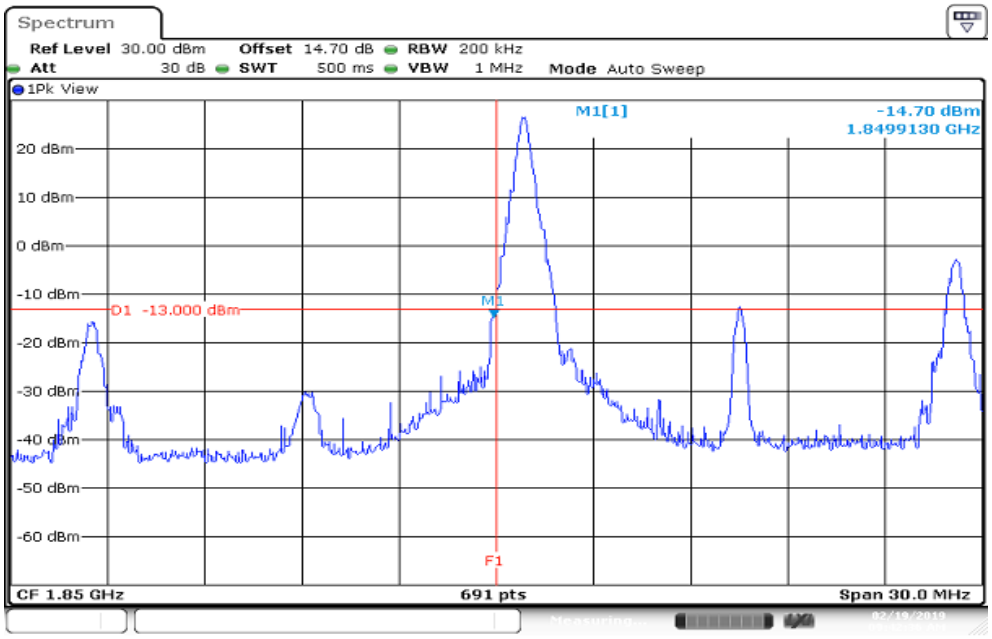
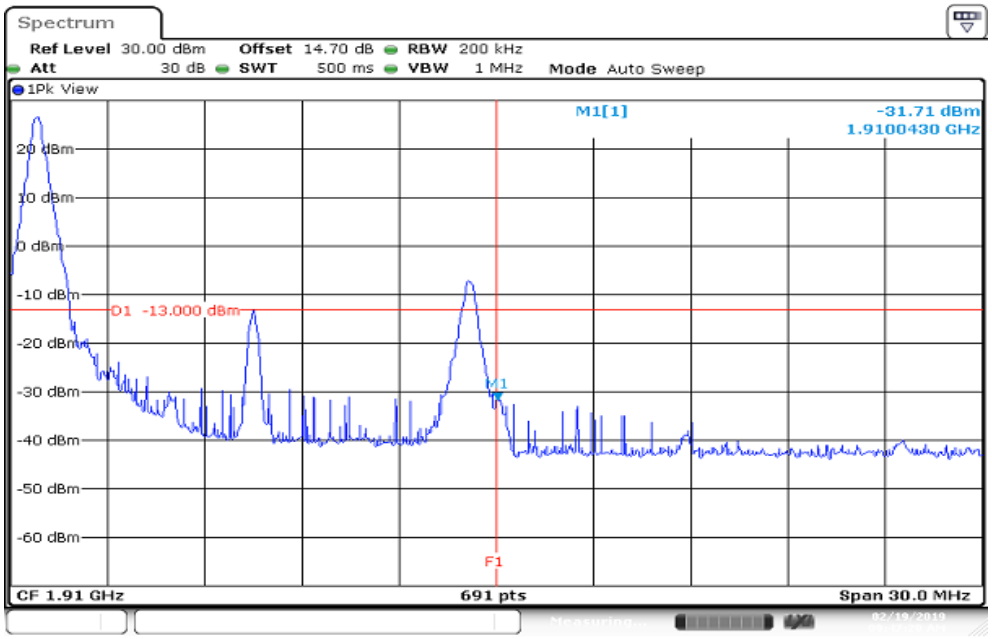
CHANNEL BANDWIDTH: 15MHz / 16QAM / 1 RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 09:42:37

HIGHER BAND EDGE



Date: 19.FEB.2019 09:47:21

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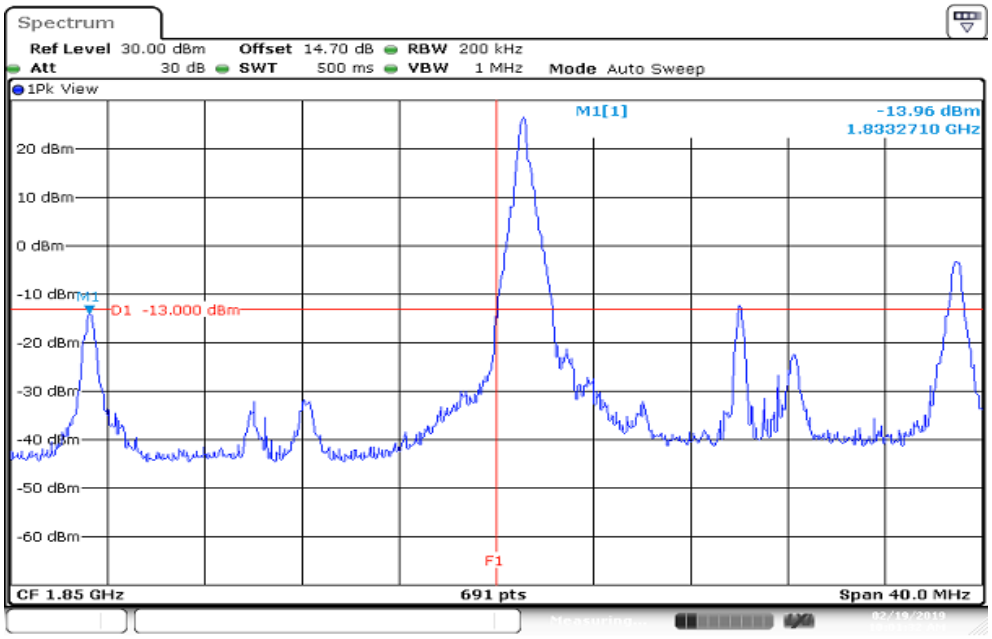
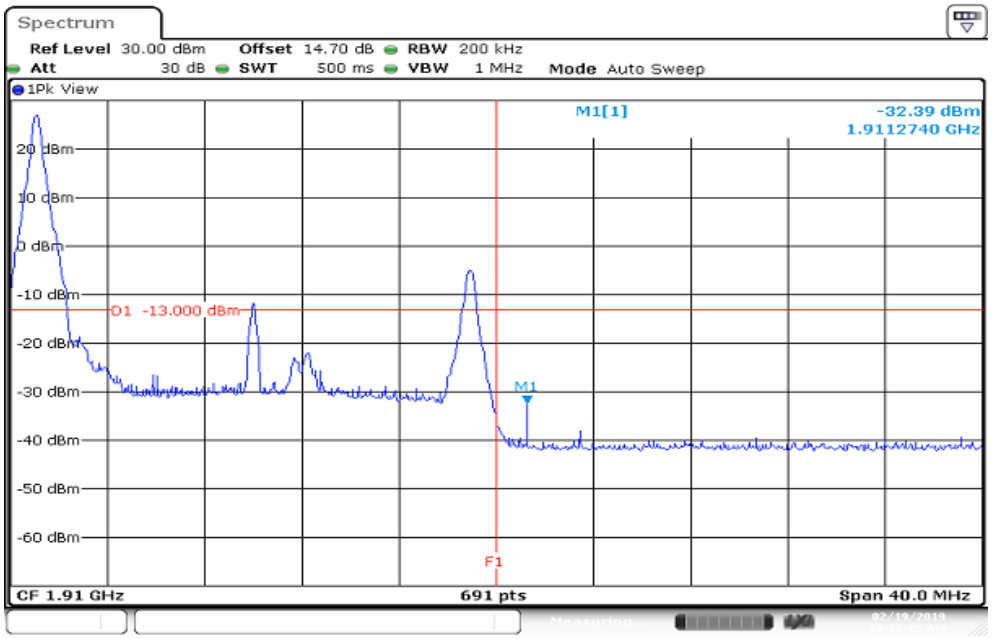
CHANNEL BANDWIDTH: 20MHz / QPSK / 1 RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 10:01:32

HIGHER BAND EDGE



Date: 19.FEB.2019 10:12:16

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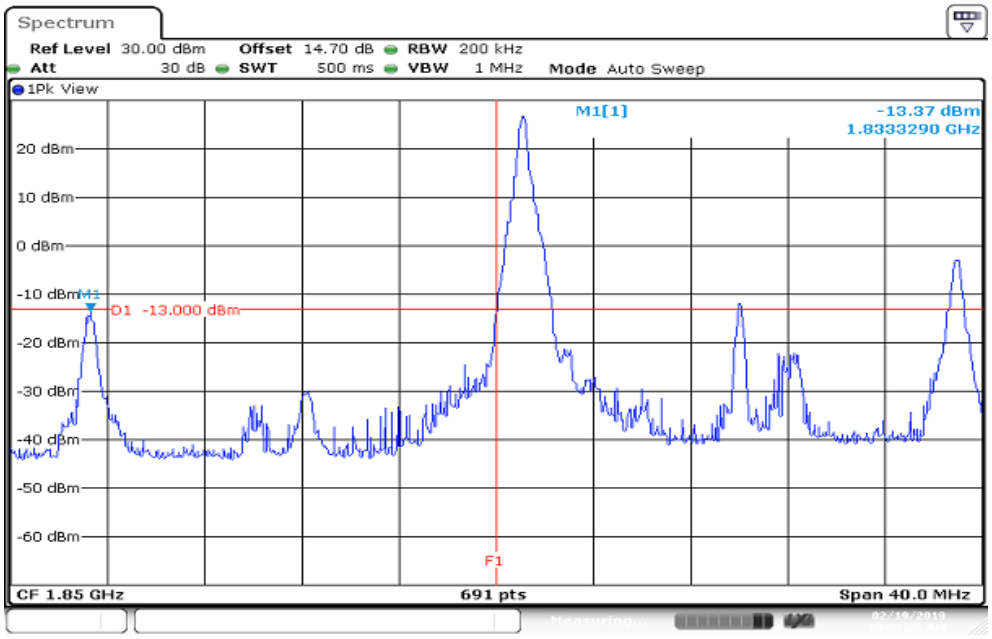
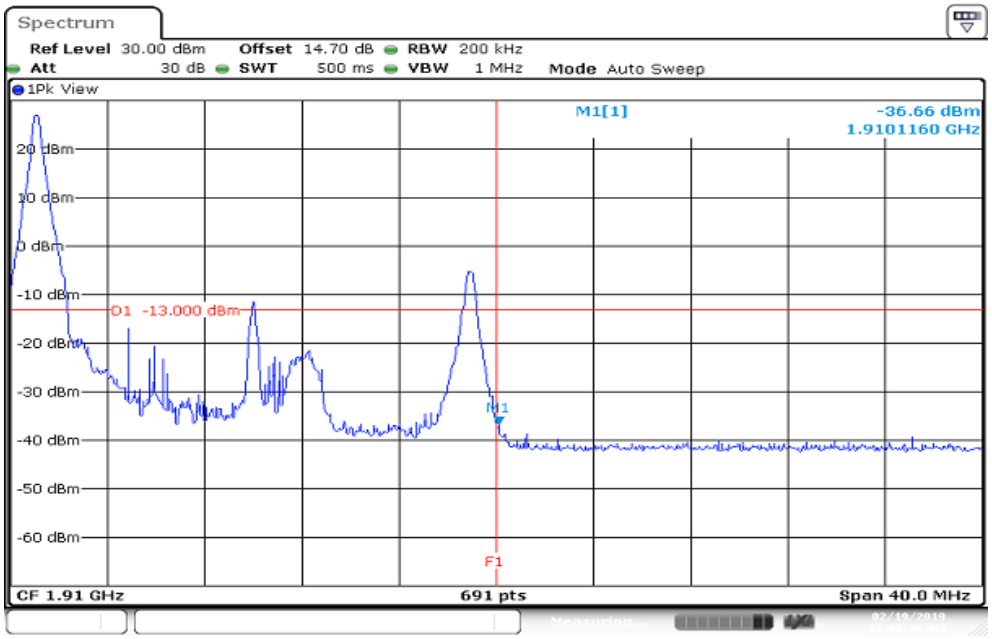
CHANNEL BANDWIDTH: 20MHz / 16QAM / 1 RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 10:02:23

HIGHER BAND EDGE



Date: 19.FEB.2019 10:08:31

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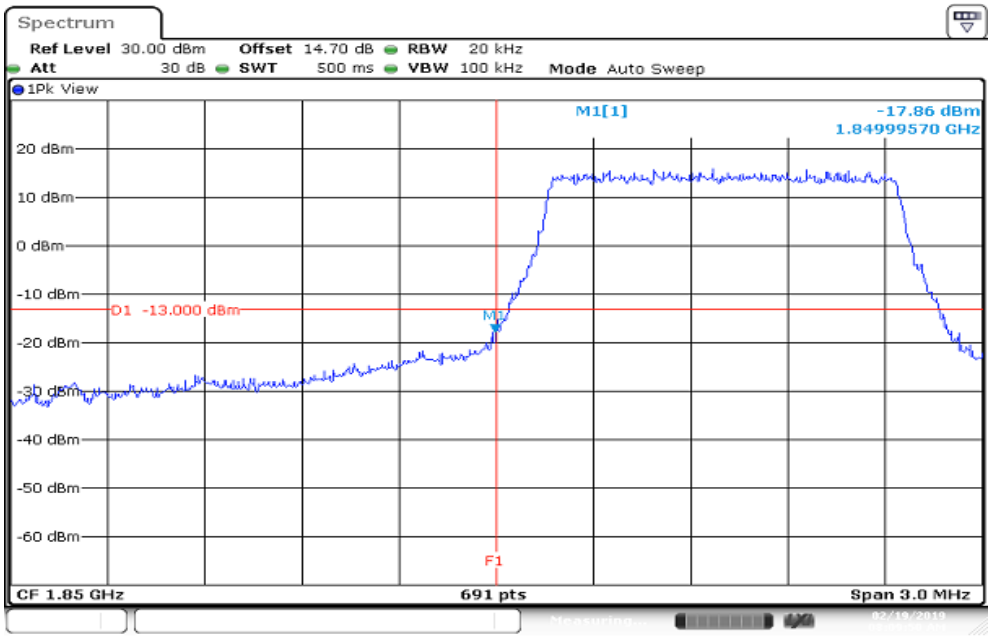
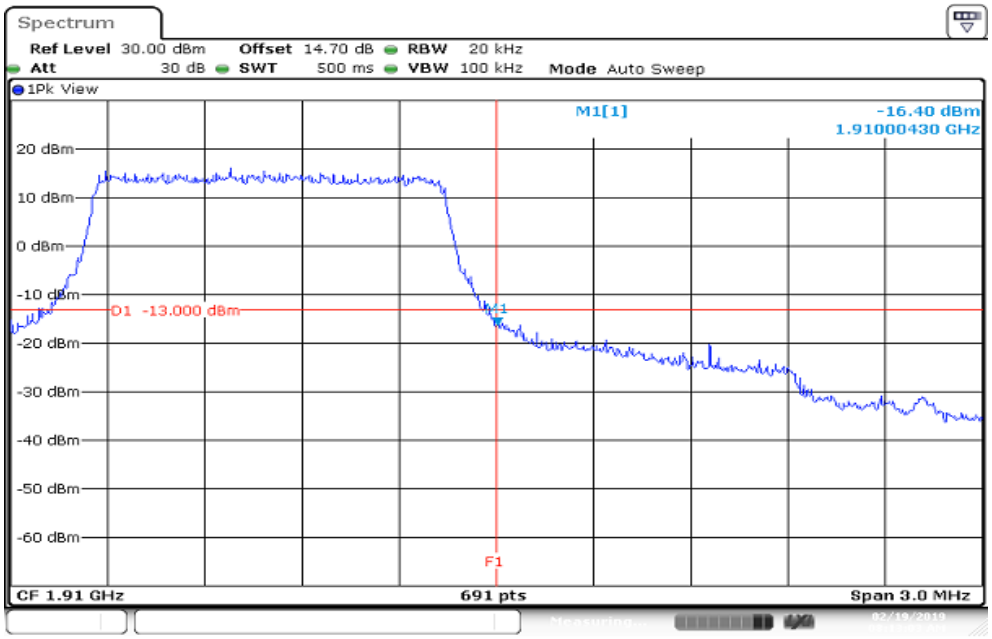
CHANNEL BANDWIDTH: 1.4MHz / QPSK / 100% RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 08:09:50

HIGHER BAND EDGE



Date: 19.FEB.2019 08:13:04

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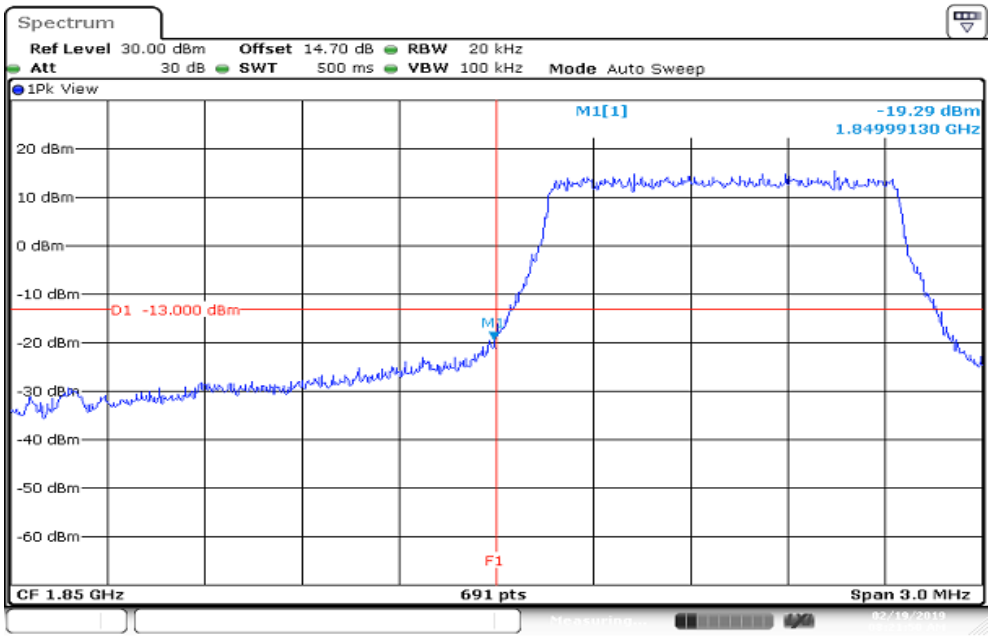
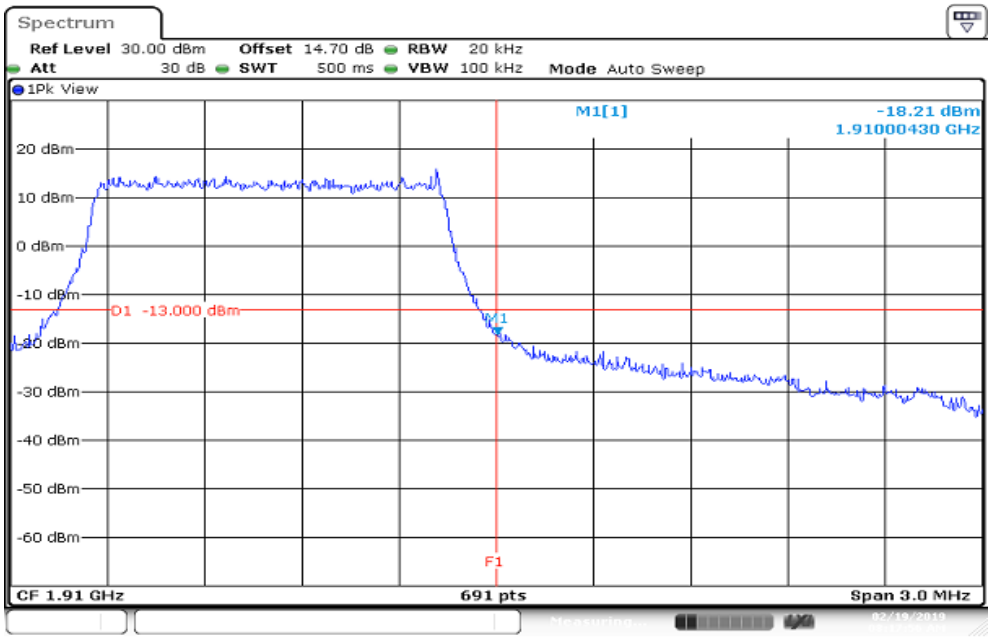
CHANNEL BANDWIDTH: 1.4MHz / 16QAM / 100% RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 08:21:51

HIGHER BAND EDGE



Date: 19.FEB.2019 08:17:56

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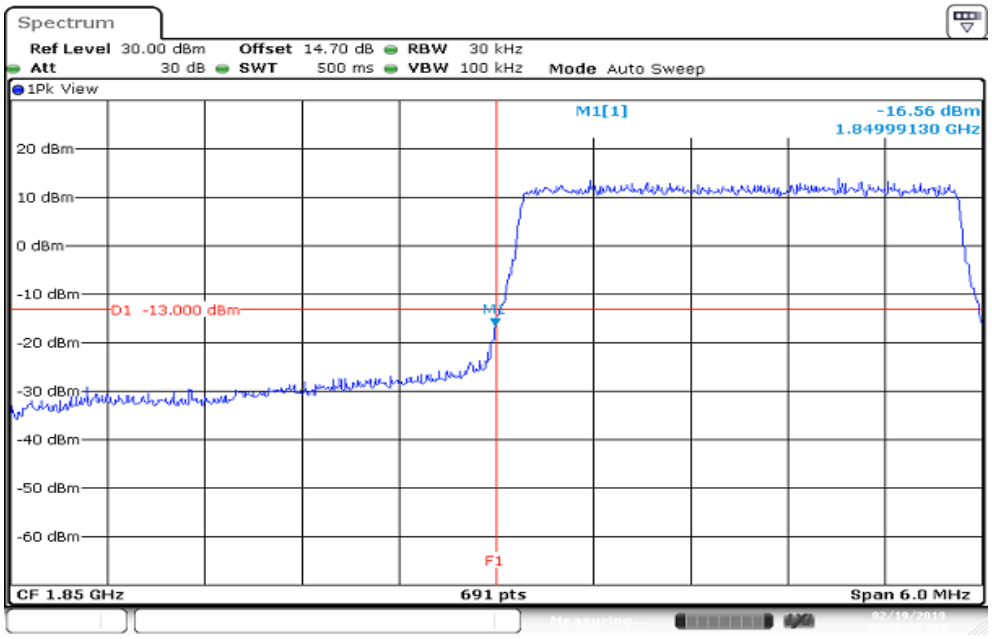
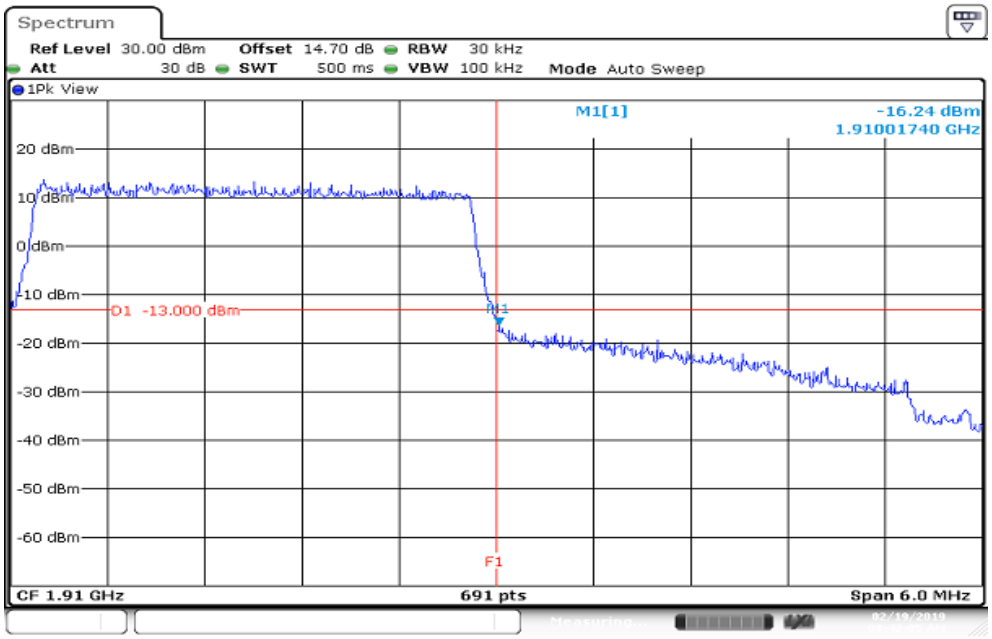
CHANNEL BANDWIDTH: 3MHz / QPSK / 100% RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 08:28:55

HIGHER BAND EDGE



Date: 19.FEB.2019 08:42:05

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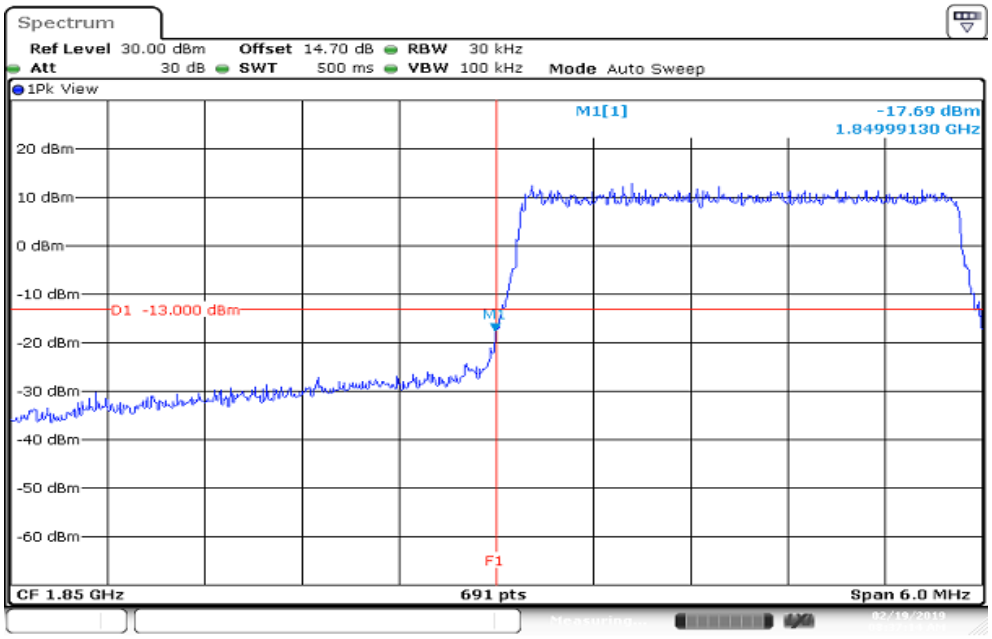
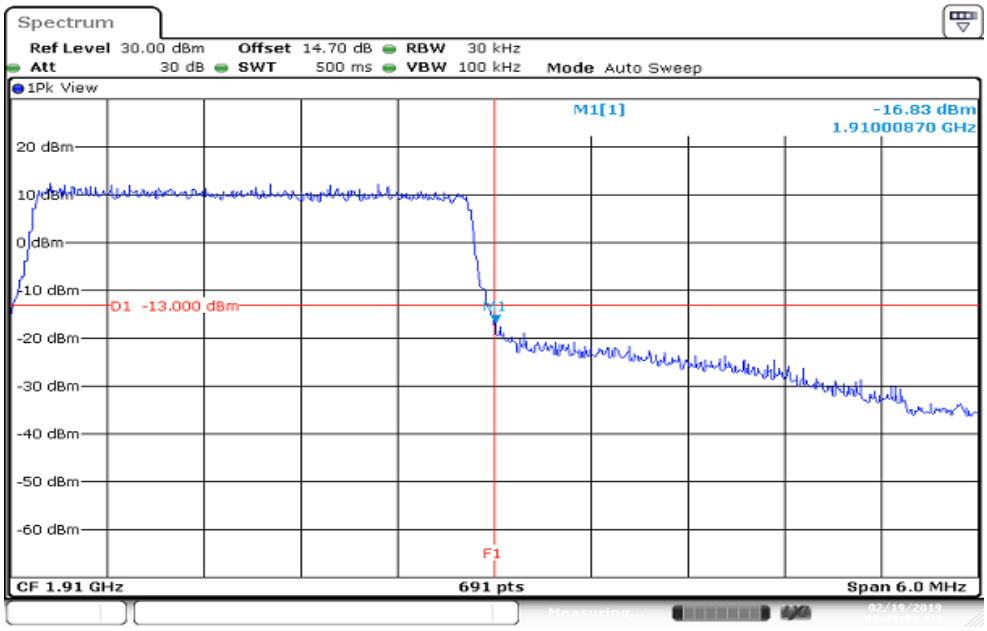
CHANNEL BANDWIDTH: 3MHz / 16QAM / 100% RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 08:37:14

HIGHER BAND EDGE



Date: 19.FEB.2019 08:49:01

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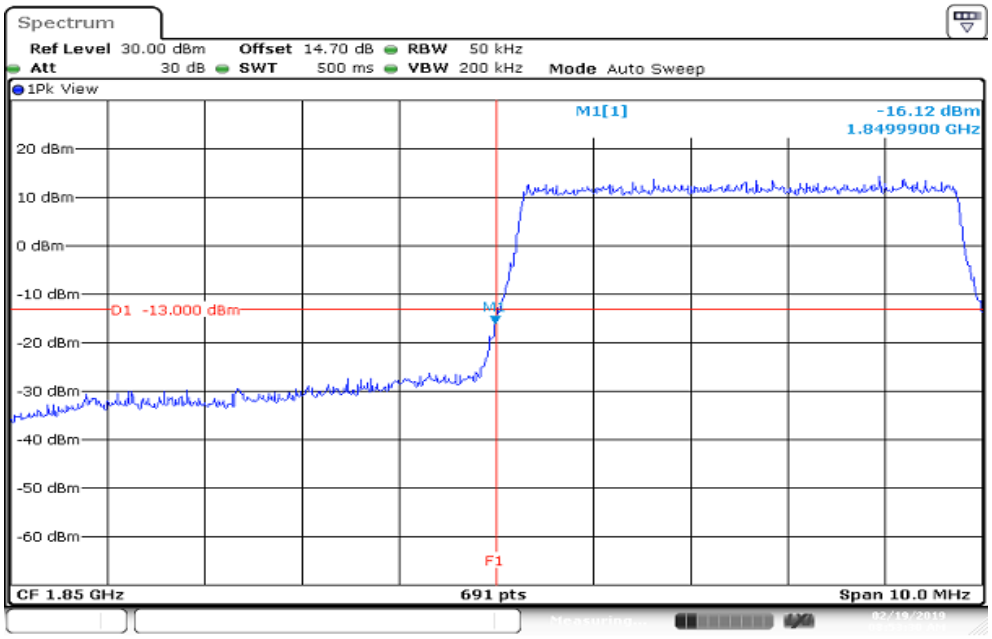
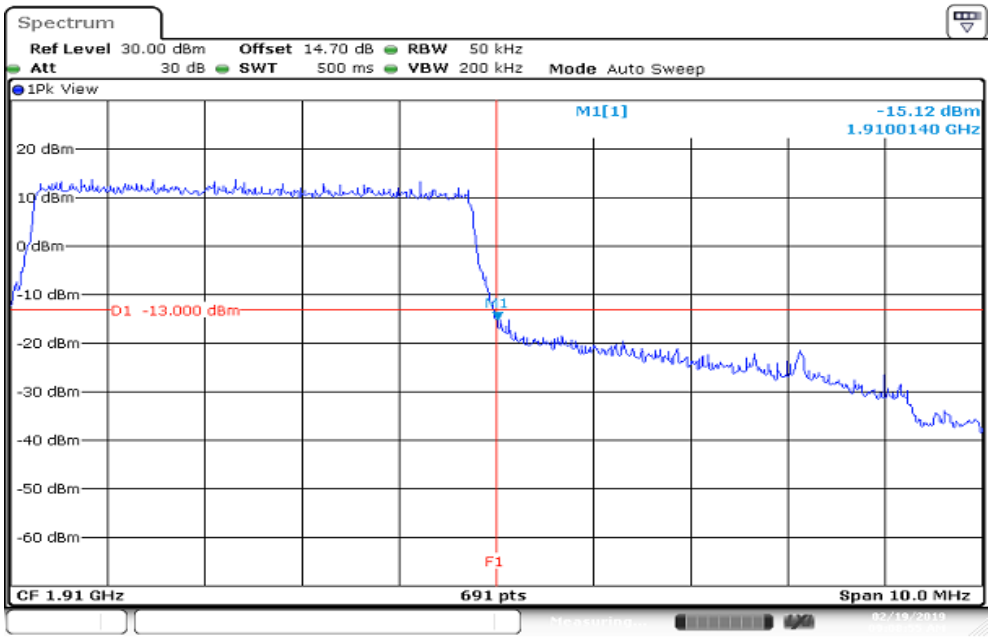
CHANNEL BANDWIDTH: 5MHz / QPSK / 100% RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 08:53:30

HIGHER BAND EDGE



Date: 19.FEB.2019 09:08:56

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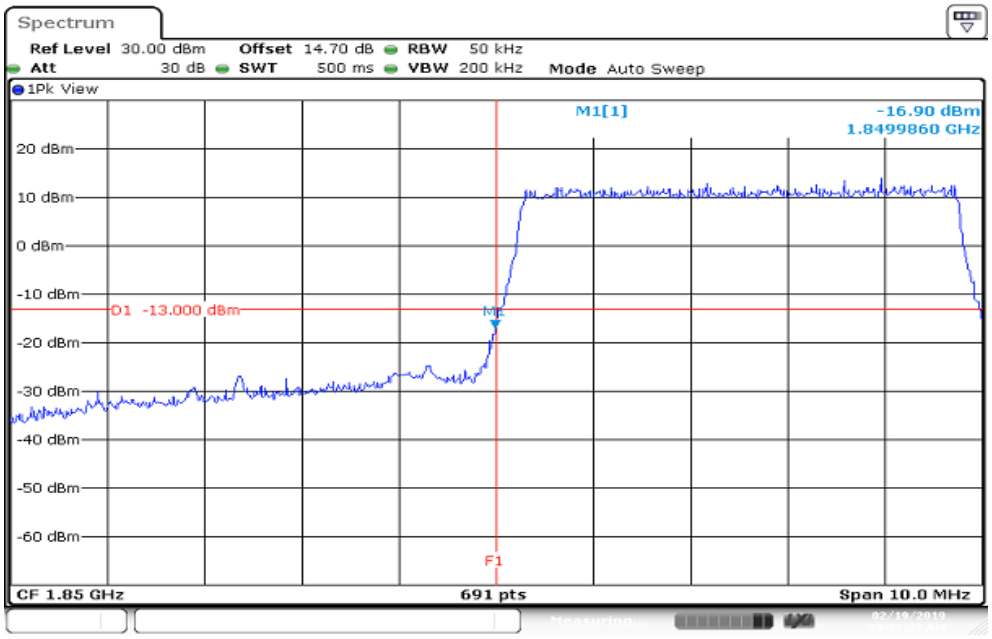
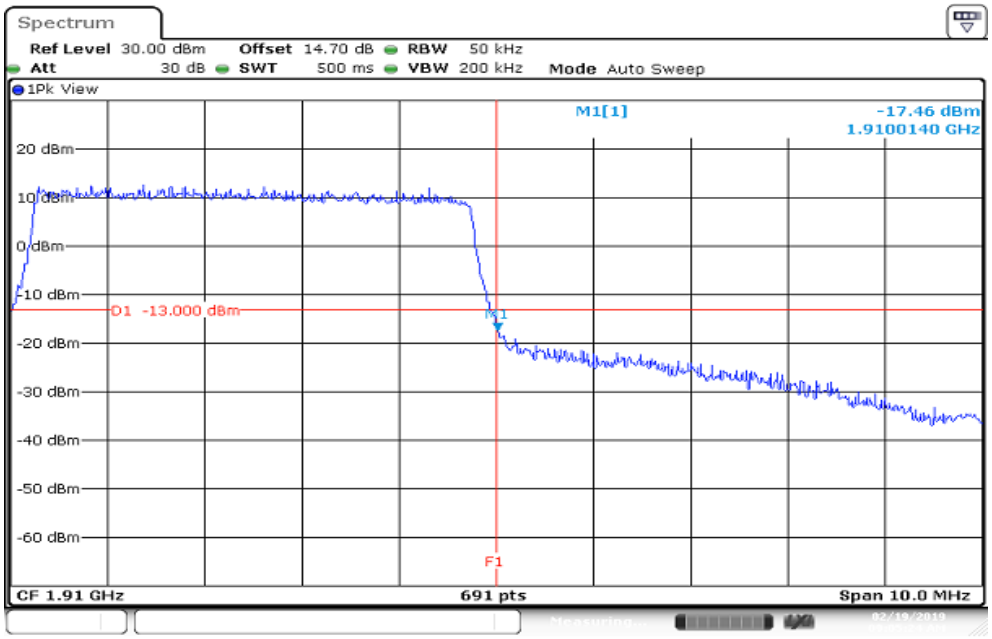
CHANNEL BANDWIDTH: 5MHz / 16QAM / 100% RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 09:02:23

HIGHER BAND EDGE



Date: 19.FEB.2019 09:05:25

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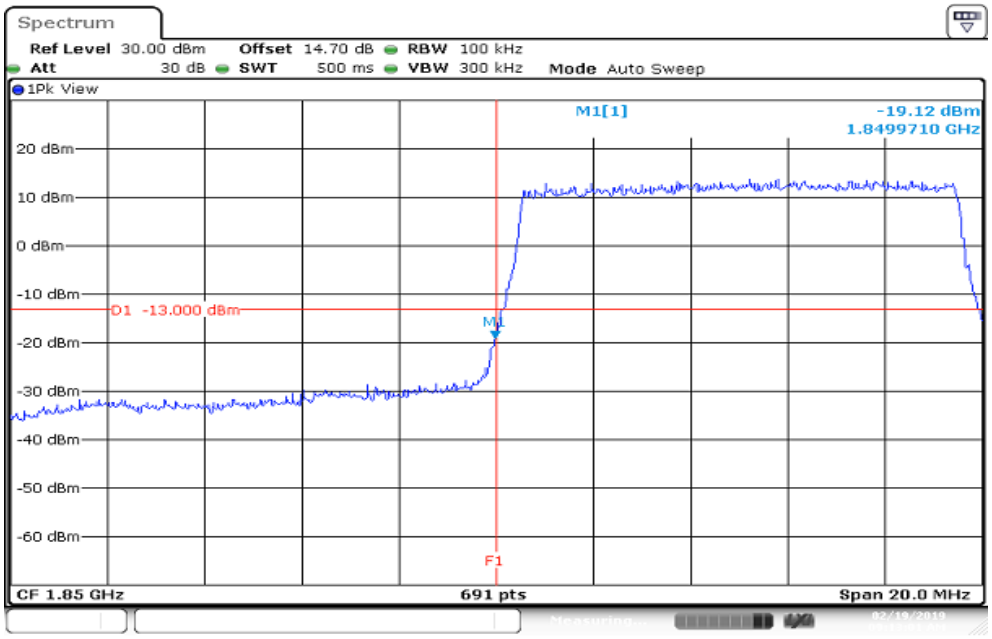
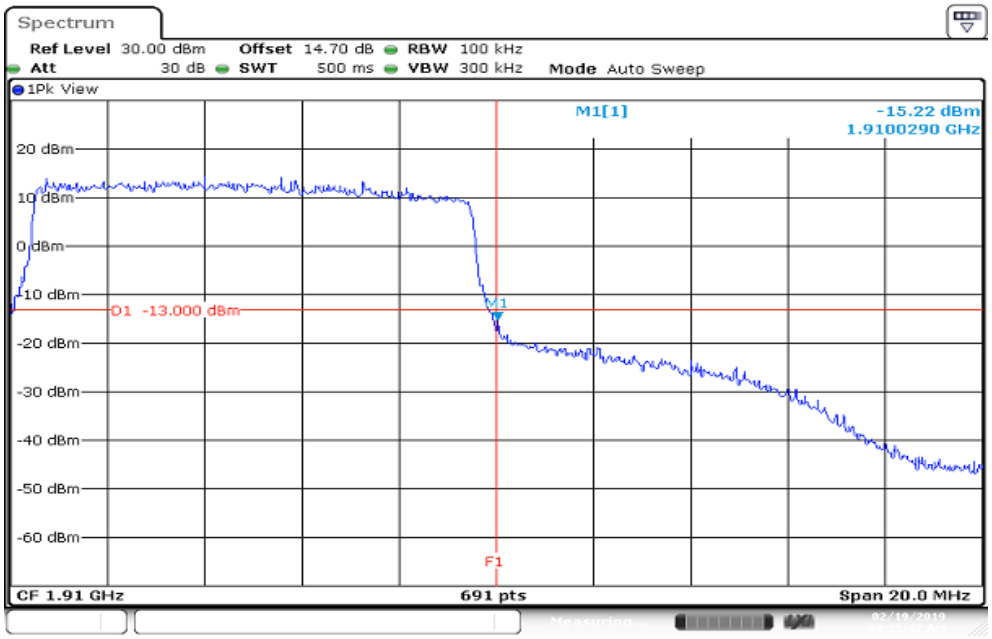
CHANNEL BANDWIDTH: 10MHz / QPSK / 100% RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 09:13:02

HIGHER BAND EDGE



Date: 19.FEB.2019 09:25:42

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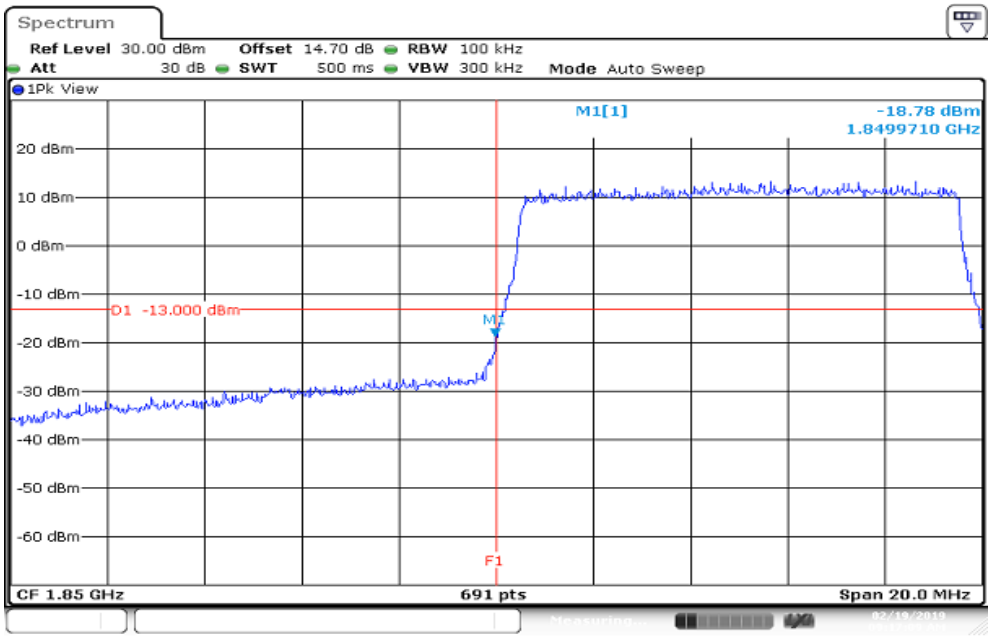
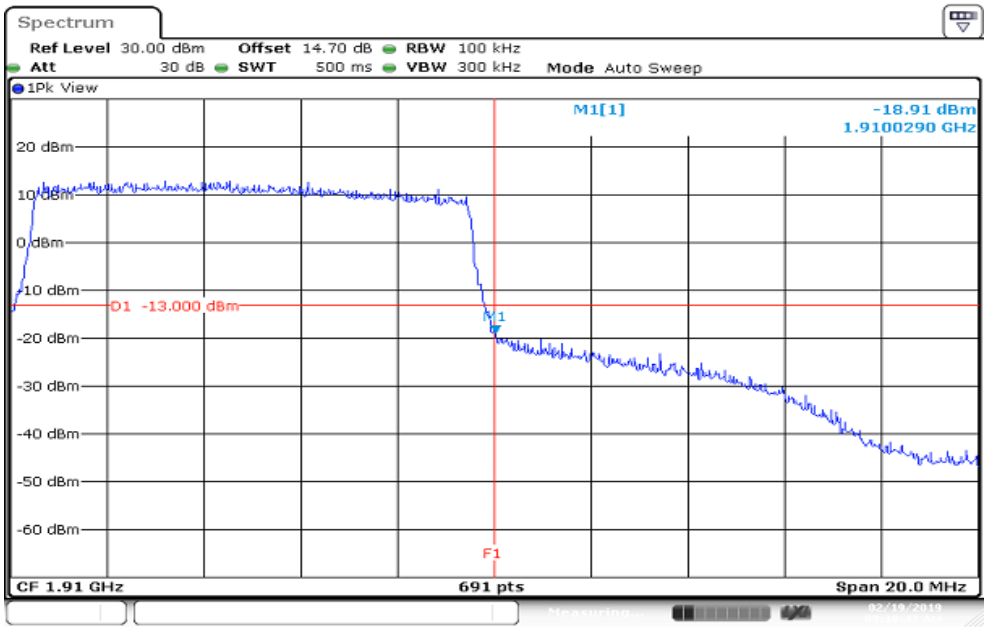
CHANNEL BANDWIDTH: 10MHz / 16QAM / 100% RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 09:17:09

HIGHER BAND EDGE



Date: 19.FEB.2019 09:18:43

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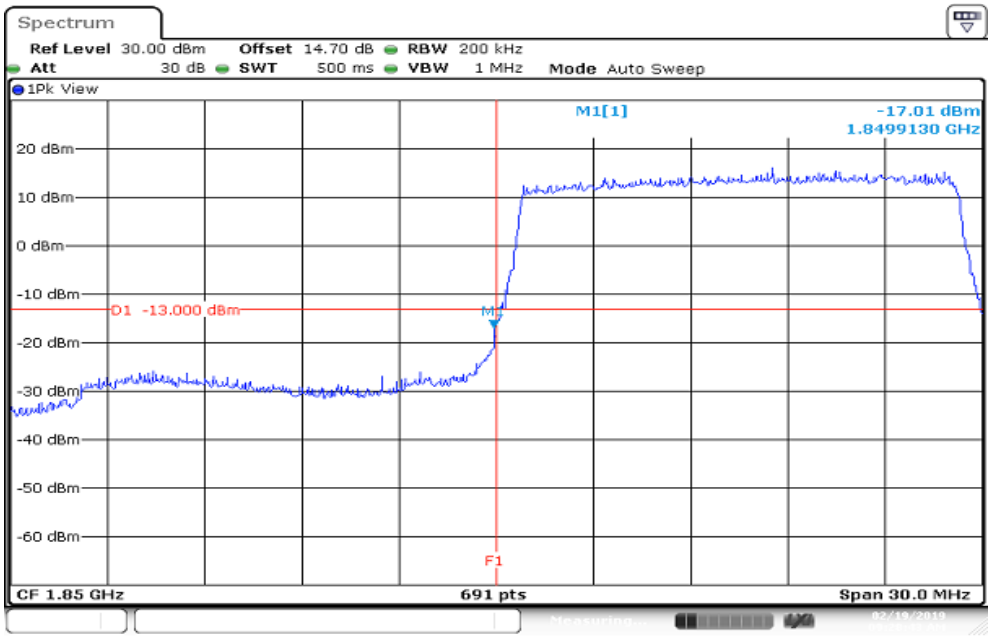
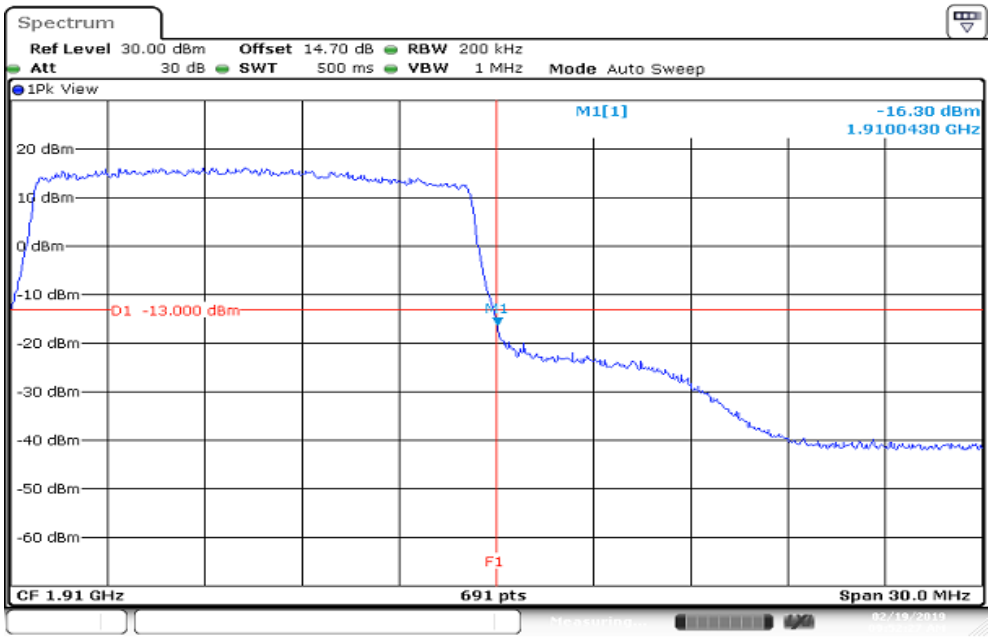
CHANNEL BANDWIDTH: 15MHz / QPSK / 100% RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 09:28:43

HIGHER BAND EDGE



Date: 19.FEB.2019 09:52:27

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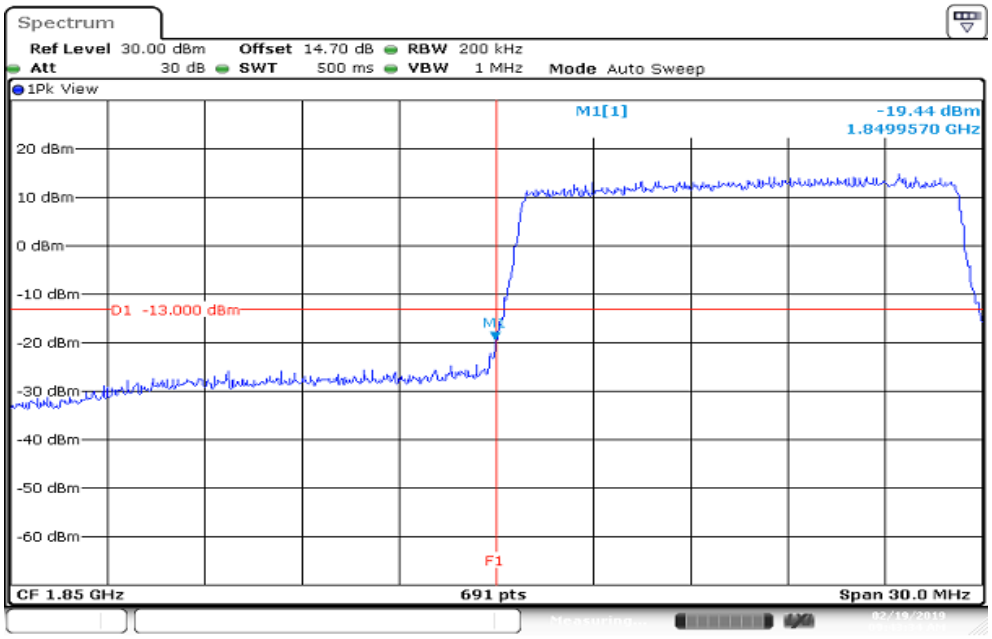
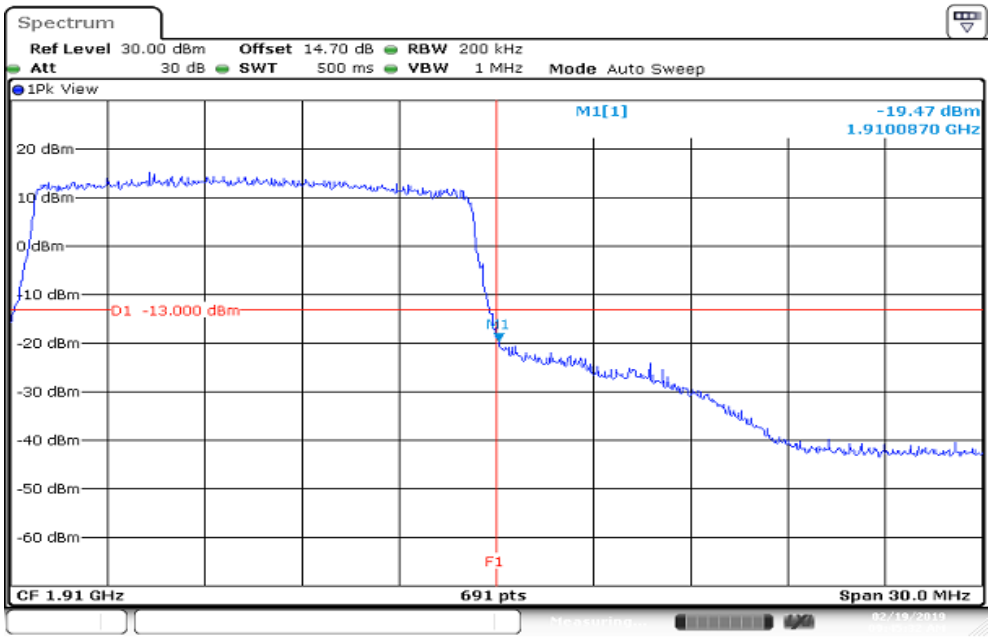
CHANNEL BANDWIDTH: 15MHz / 16QAM / 100% RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 09:43:34

HIGHER BAND EDGE



Date: 19.FEB.2019 09:45:33

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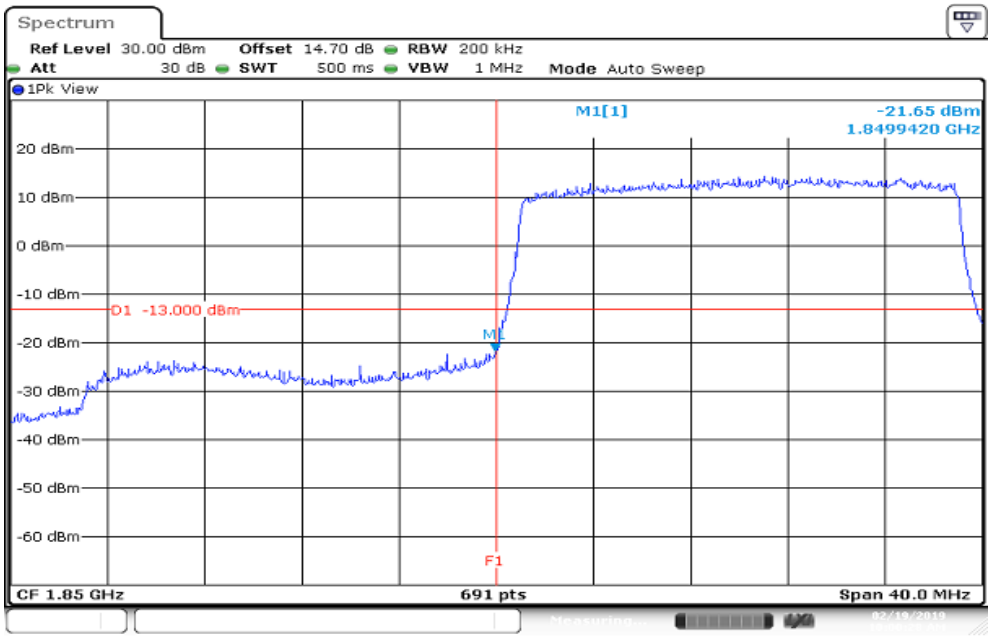
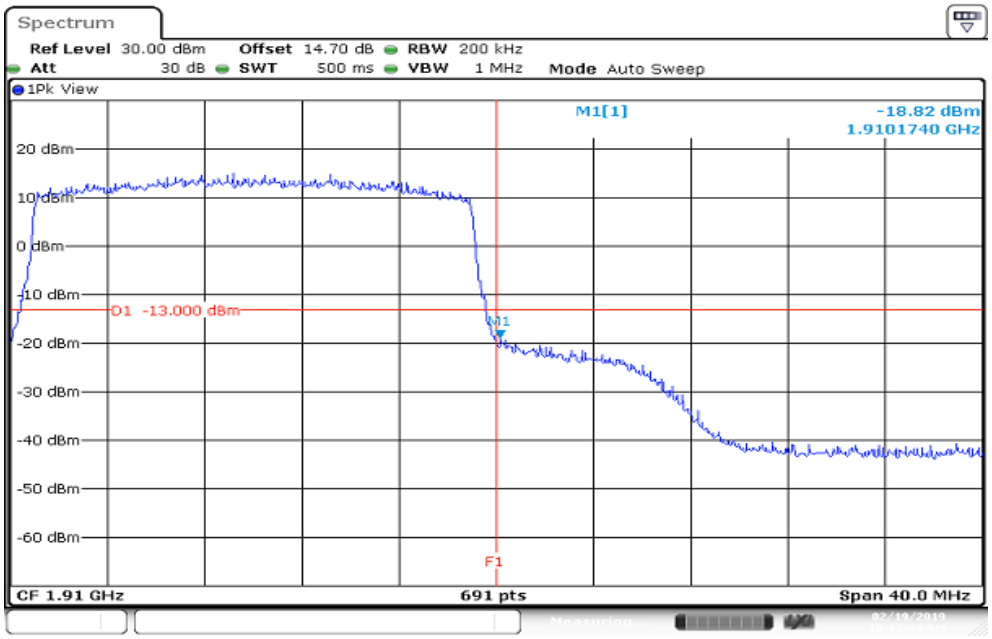
CHANNEL BANDWIDTH: 20MHz / QPSK / 100% RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 10:00:28

HIGHER BAND EDGE



Date: 19.FEB.2019 10:13:44

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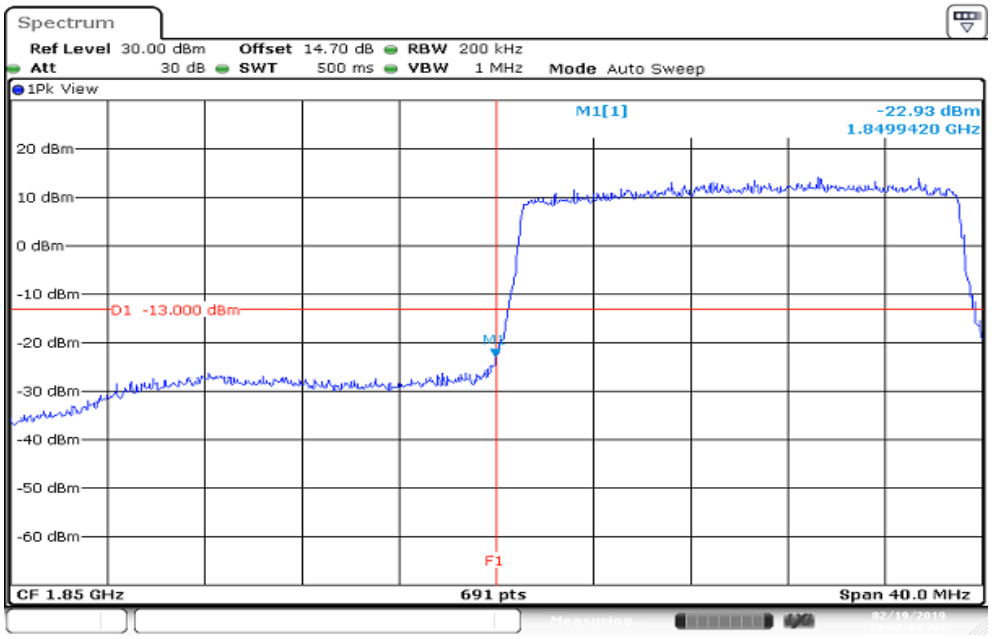
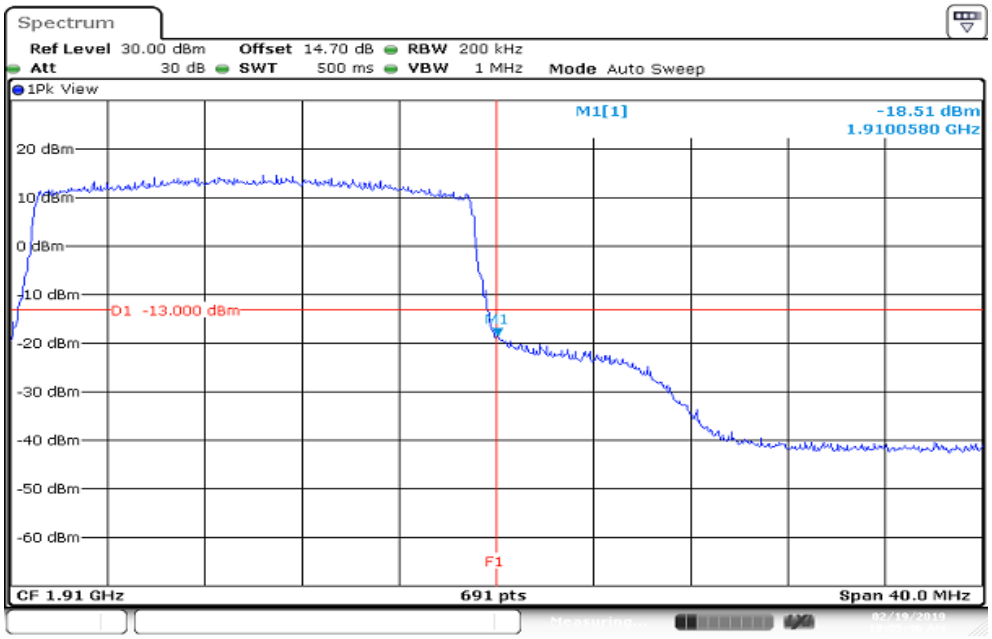
CHANNEL BANDWIDTH: 20MHz / 16QAM / 100% RB ALLOCATED

LOWER BAND EDGE



Date: 19.FEB.2019 10:03:14

HIGHER BAND EDGE



Date: 19.FEB.2019 10:05:47

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8.7 CONDUCTED SPURIOUS EMISSIONS

Limits

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to –13dBm

Test Procedures

1. The EUT was connect to spectrum analyzer and call box.
2. The RF output of EUT was connected to the spectrum analyzer.
3. Set the spectrum analyzer , RBW=1MHz, VBW=3MHz.
4. Record the maximum spurious emission.
5. The fundamental frequency should be excluded against the limit in operating band.

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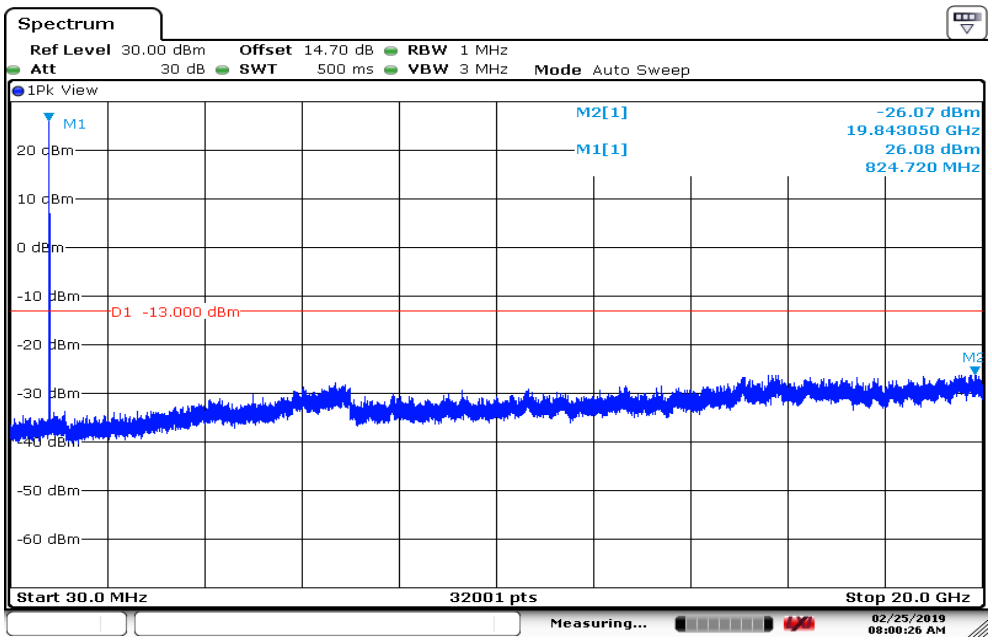
Test Results

LTE Band 5

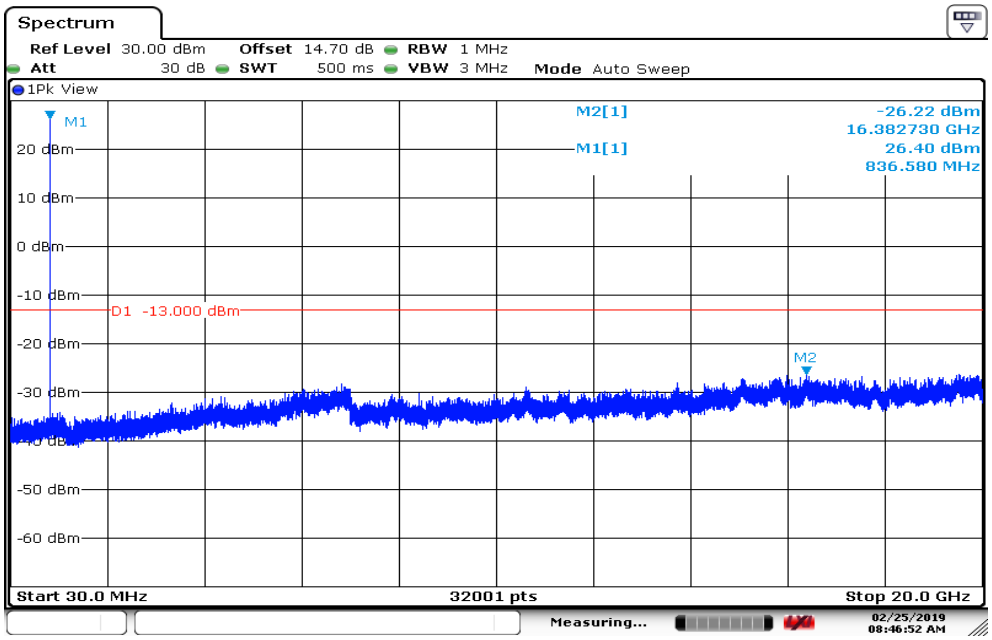
CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH Low



Date: 25.FEB.2019 08:00:27

CH Mid



Date: 25.FEB.2019 08:46:52

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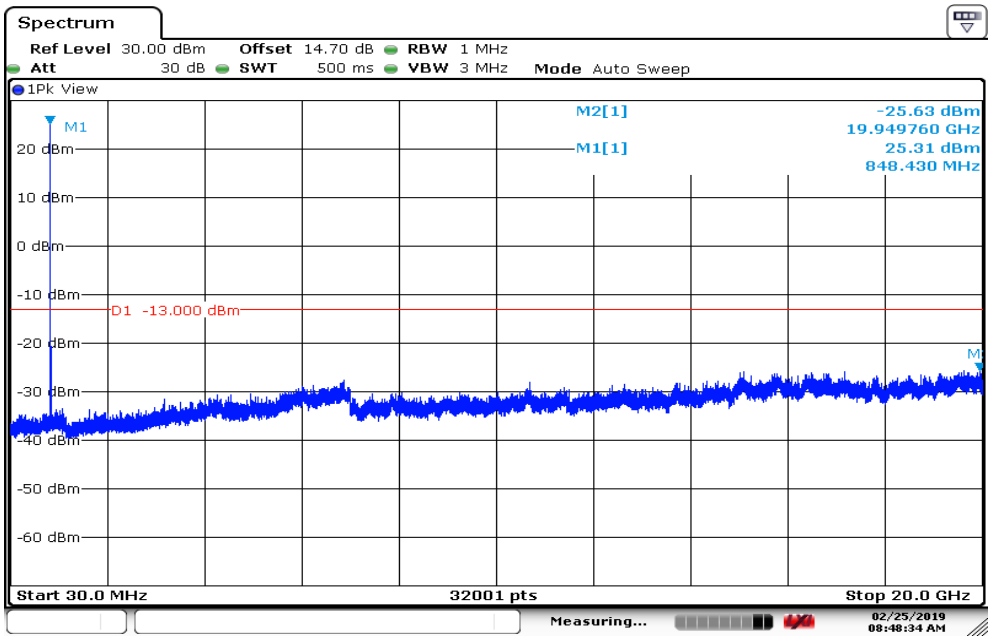
CH High



Date: 25.FEB.2019 08:48:35

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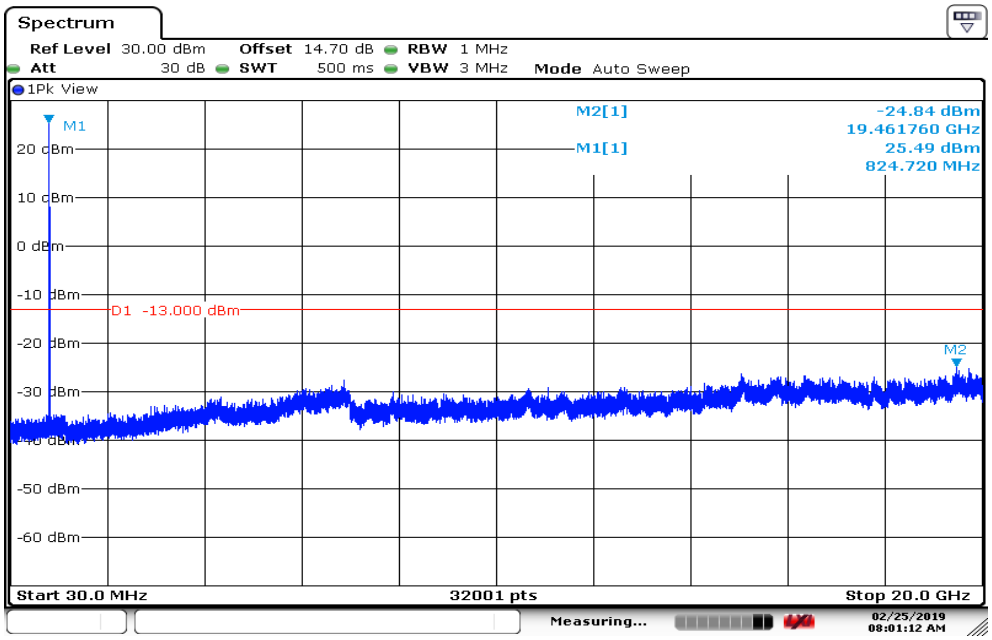
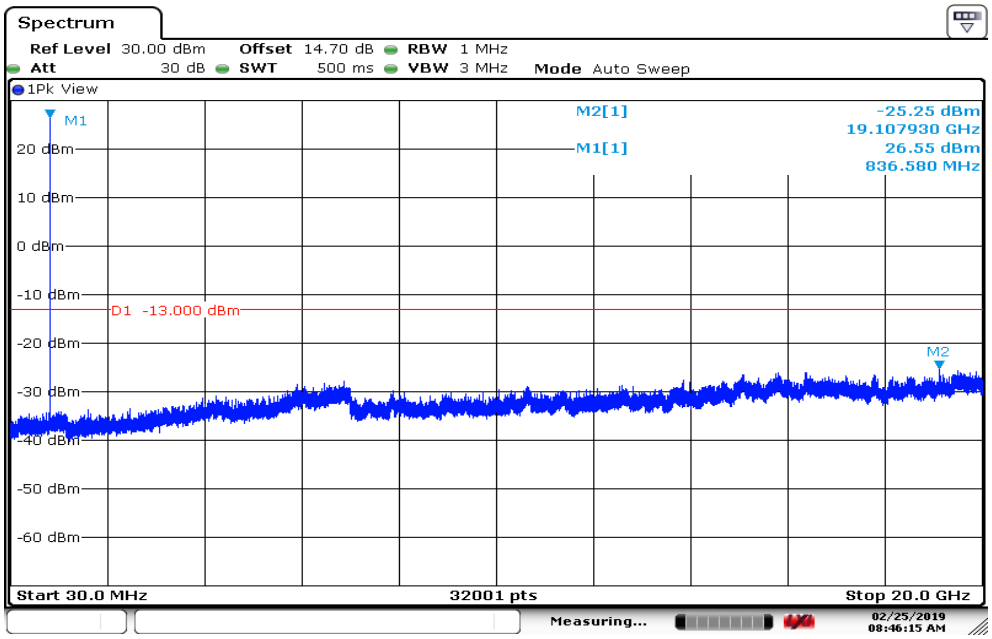
CHANNEL BANDWIDTH: 1.4MHz / 16QAM

CH Low



Date: 25.FEB.2019 08:01:12

CH Mid



Date: 25.FEB.2019 08:46:16

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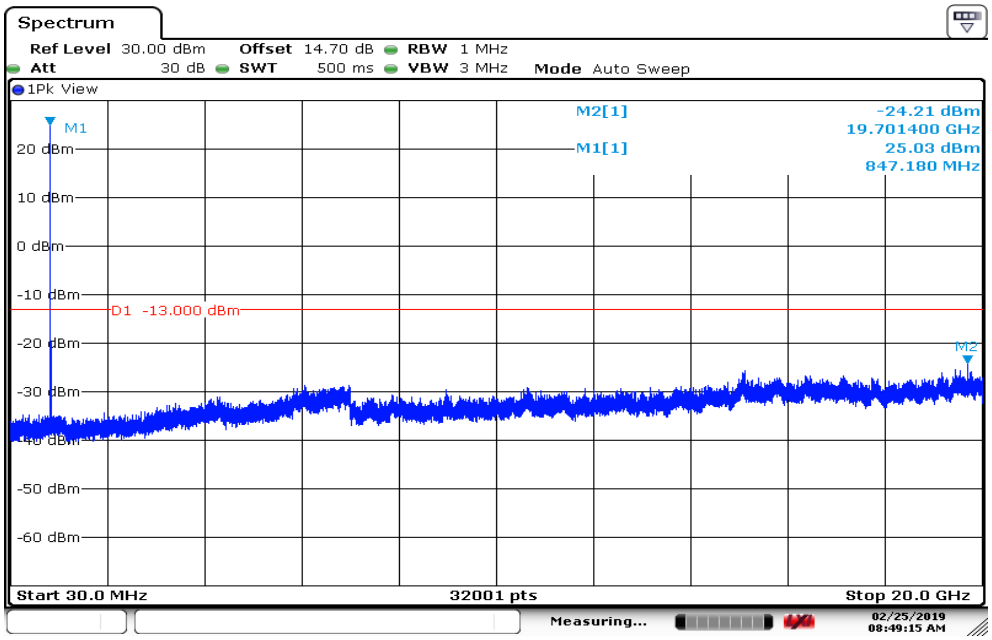
CH High



Date: 25.FEB.2019 08:49:15

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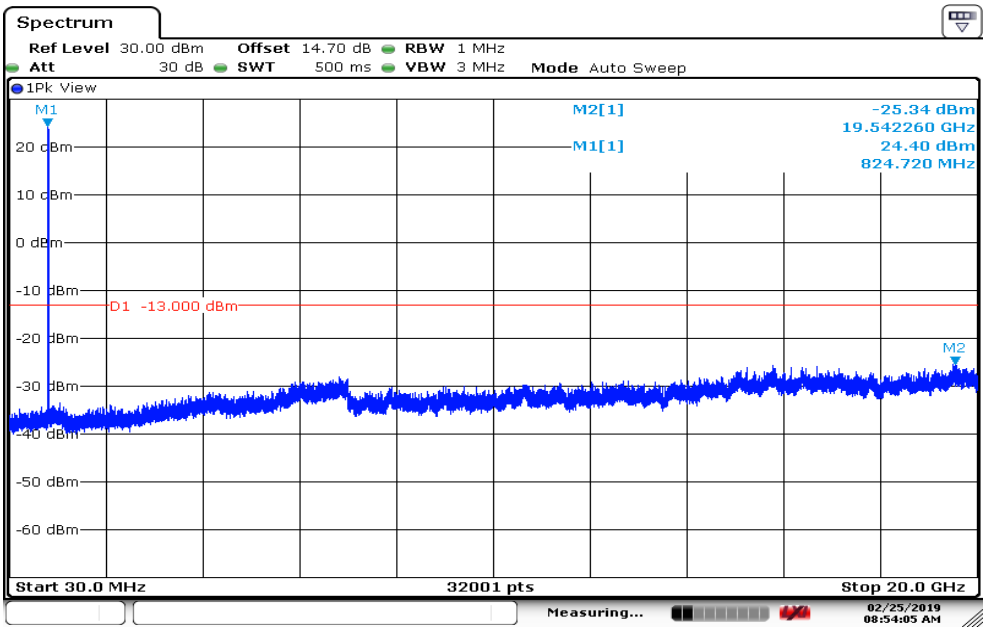
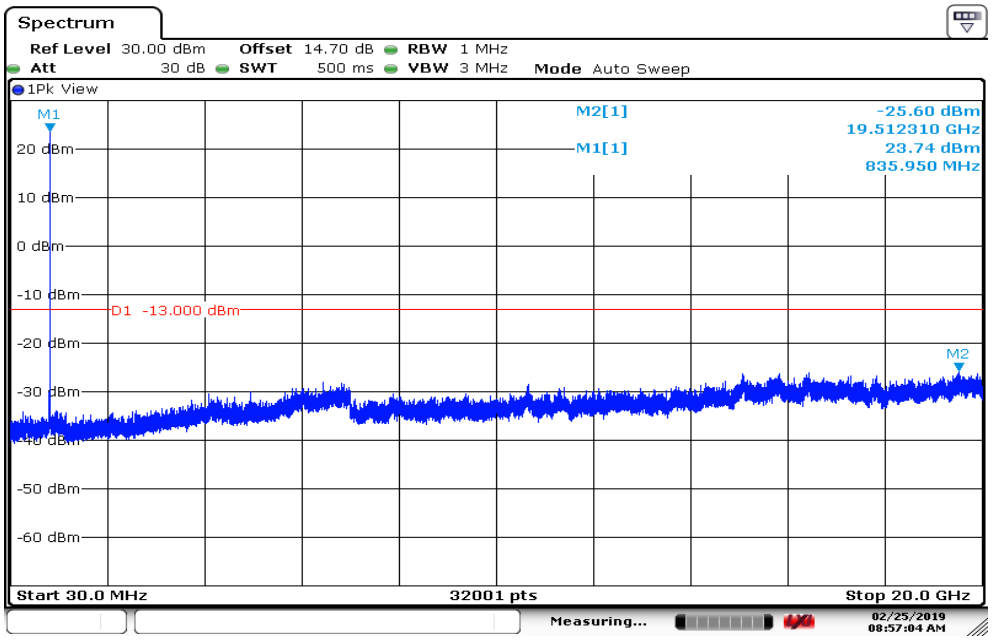
CHANNEL BANDWIDTH: 3MHz / QPSK

CH Low



Date: 25.FEB.2019 08:54:05

CH Mid



Date: 25.FEB.2019 08:57:05

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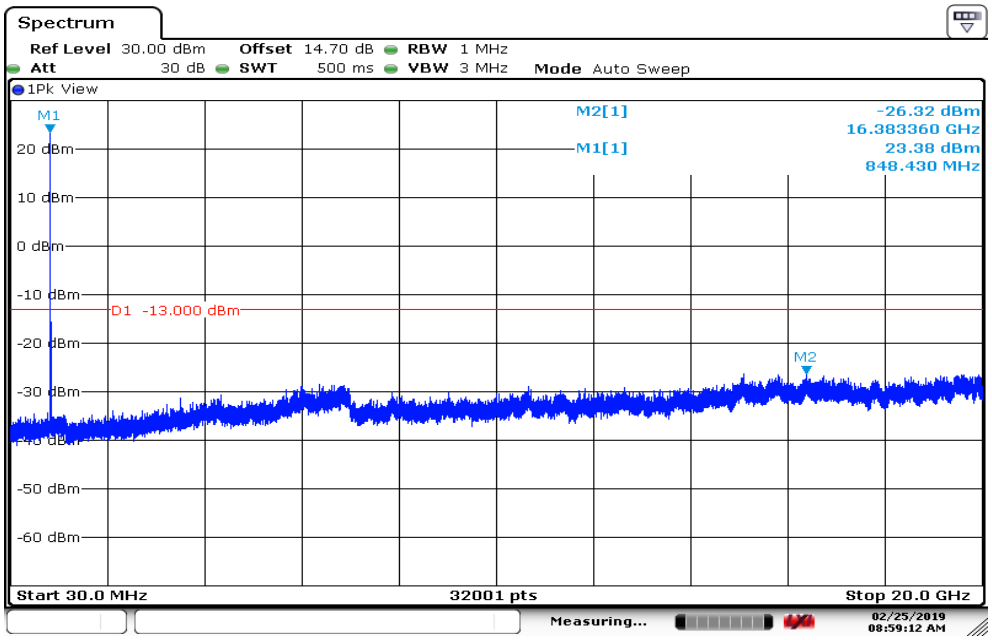
CH High



Date: 25.FEB.2019 08:59:12

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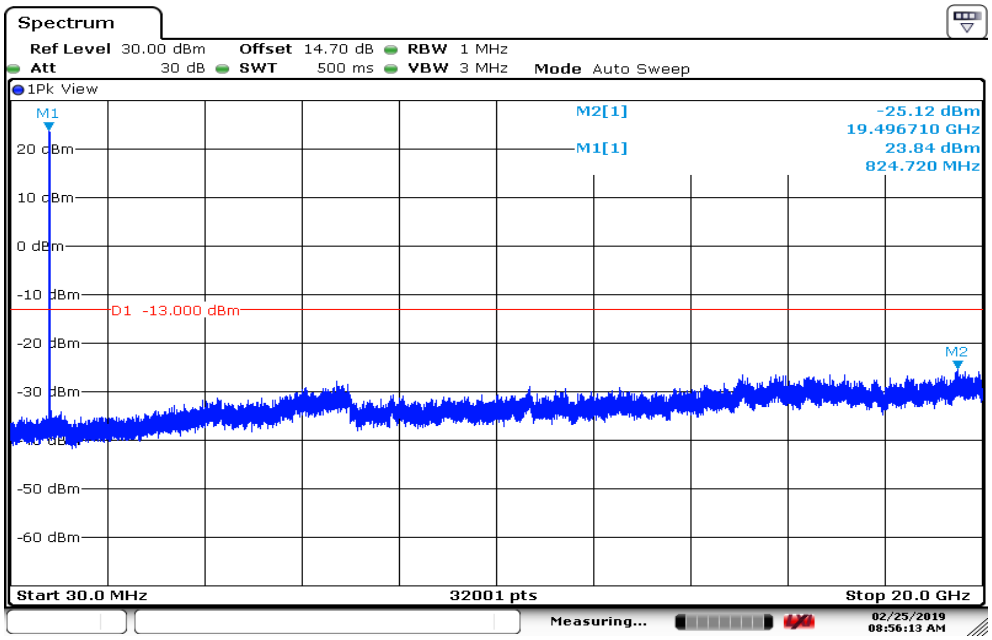
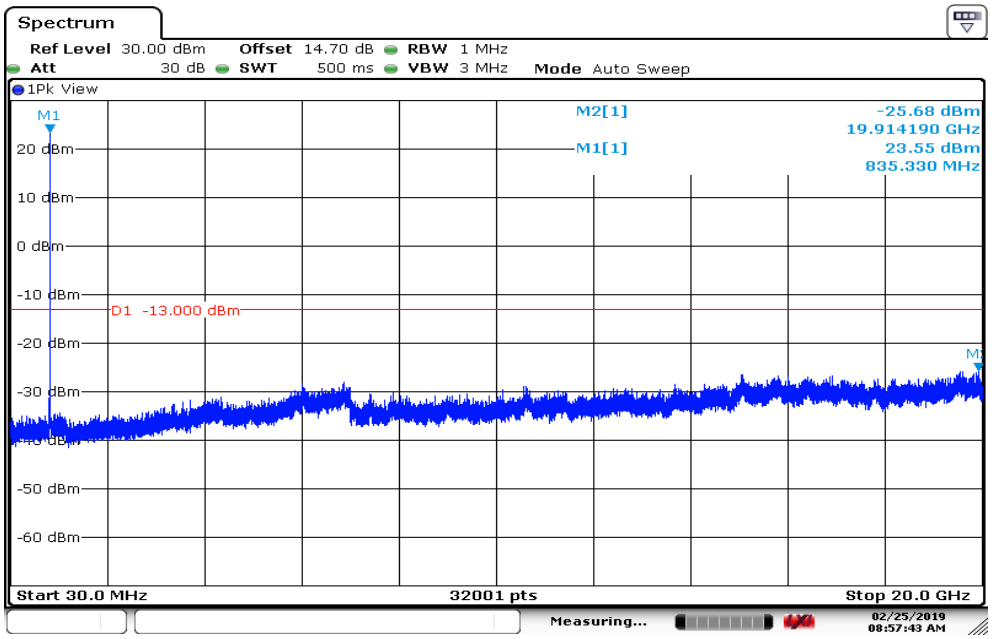
CHANNEL BANDWIDTH: 3MHz / 16QAM

CH Low



Date: 25.FEB.2019 08:56:14

CH Mid



Date: 25.FEB.2019 08:57:43

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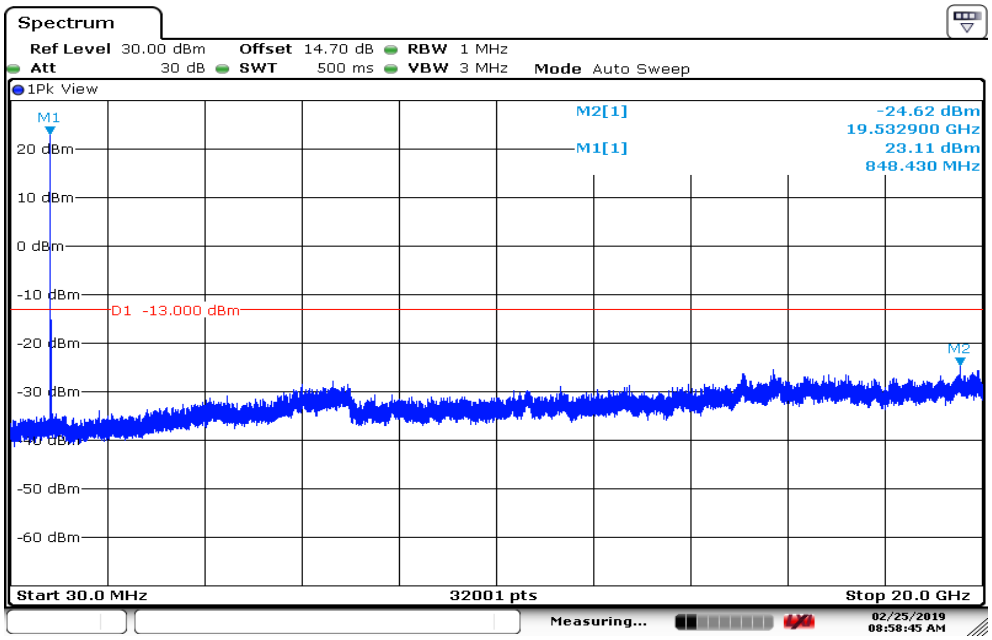
CH High



Date: 25.FEB.2019 08:58:45

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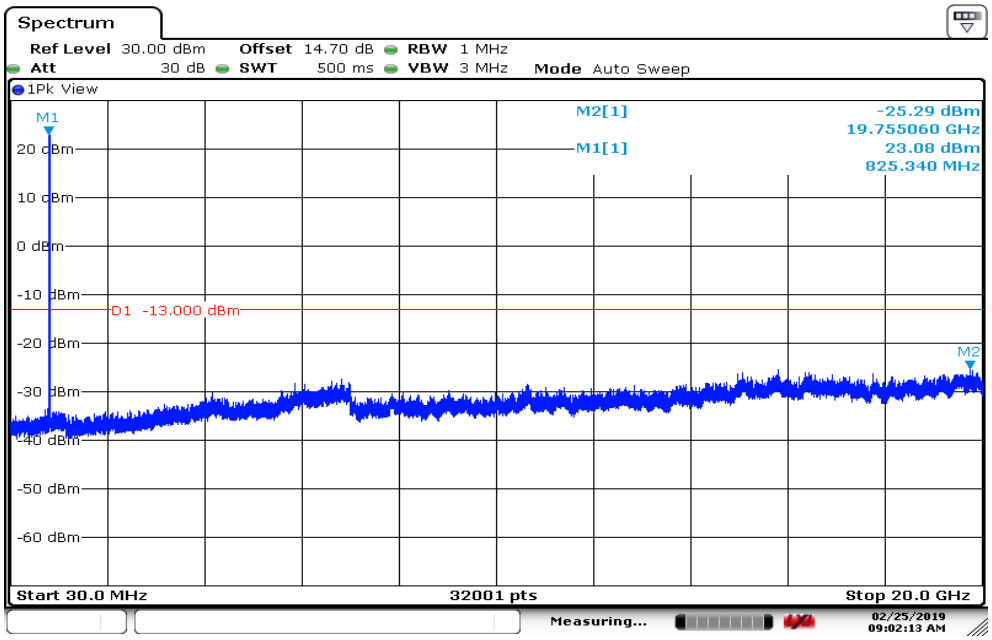
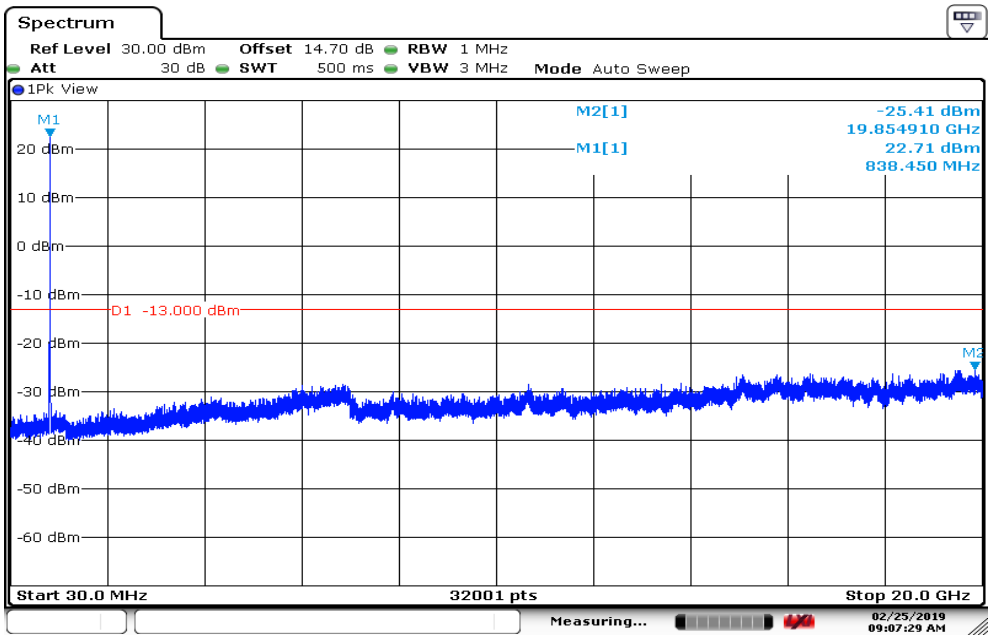
CHANNEL BANDWIDTH: 5MHz / QPSK

CH Low



Date: 25.FEB.2019 09:02:13

CH Mid



Date: 25.FEB.2019 09:07:29

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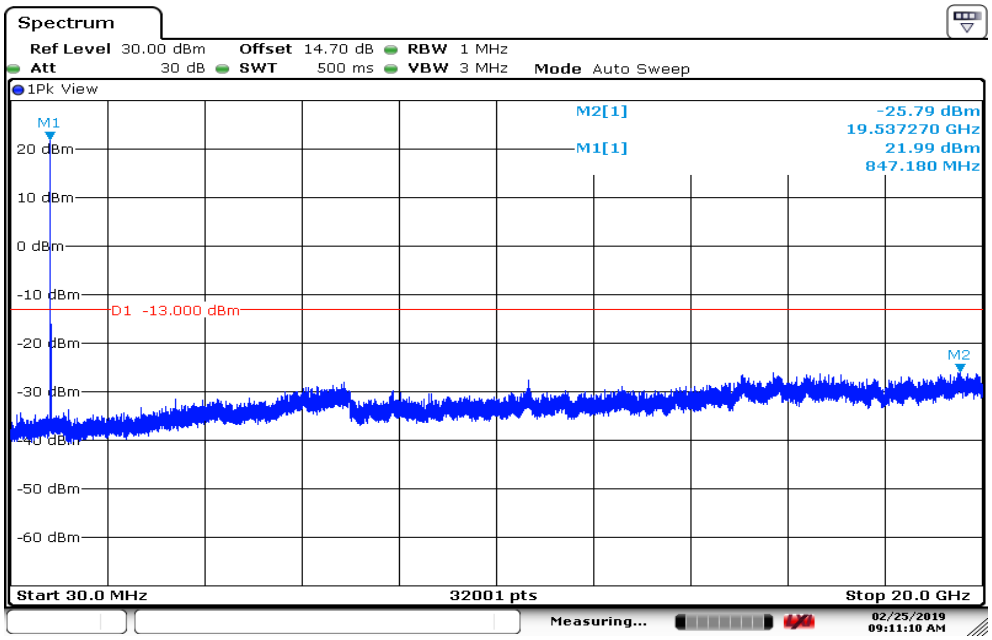
CH High



Date: 25.FEB.2019 09:11:10

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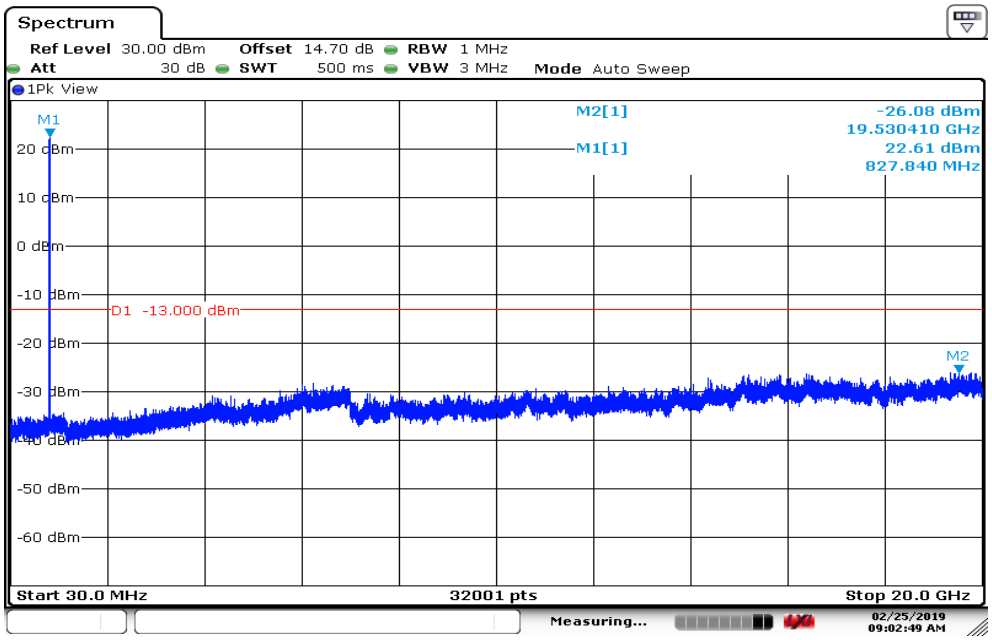
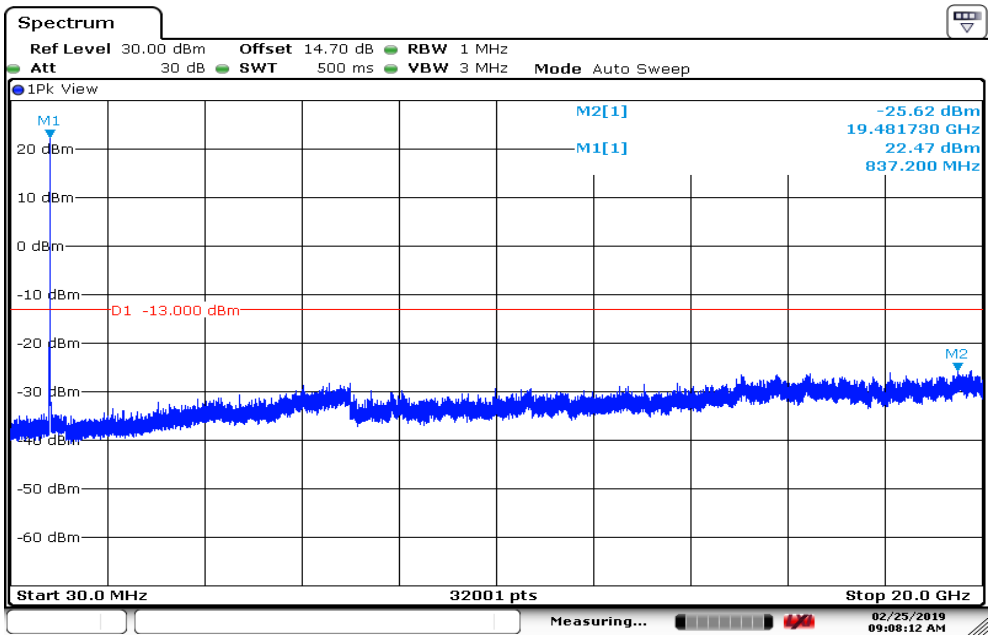
CHANNEL BANDWIDTH: 5MHz / 16QAM

CH Low



Date: 25.FEB.2019 09:02:49

CH Mid



Date: 25.FEB.2019 09:08:13

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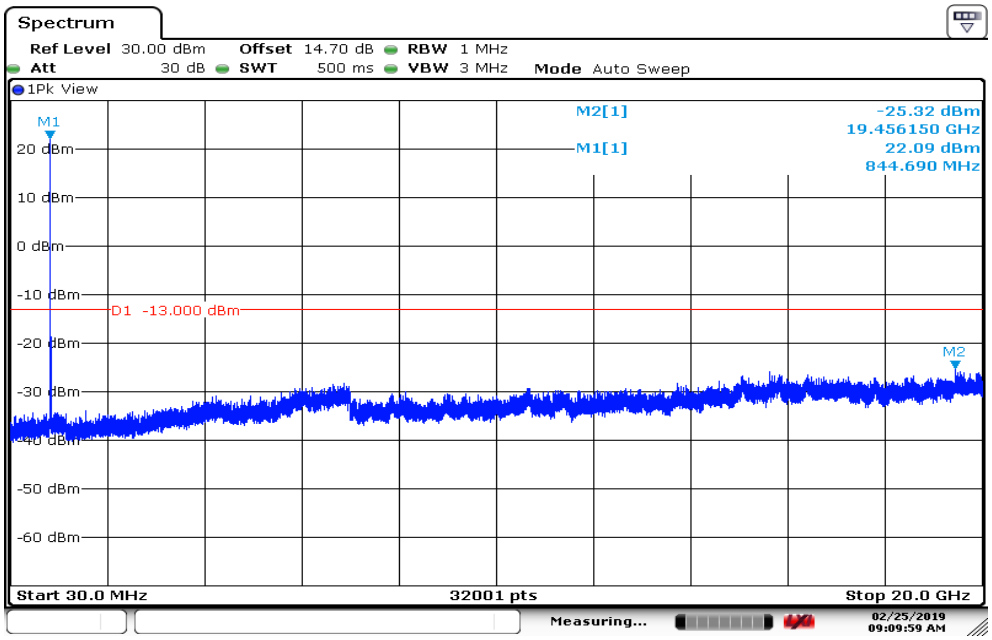
CH High



Date: 25.FEB.2019 09:10:00

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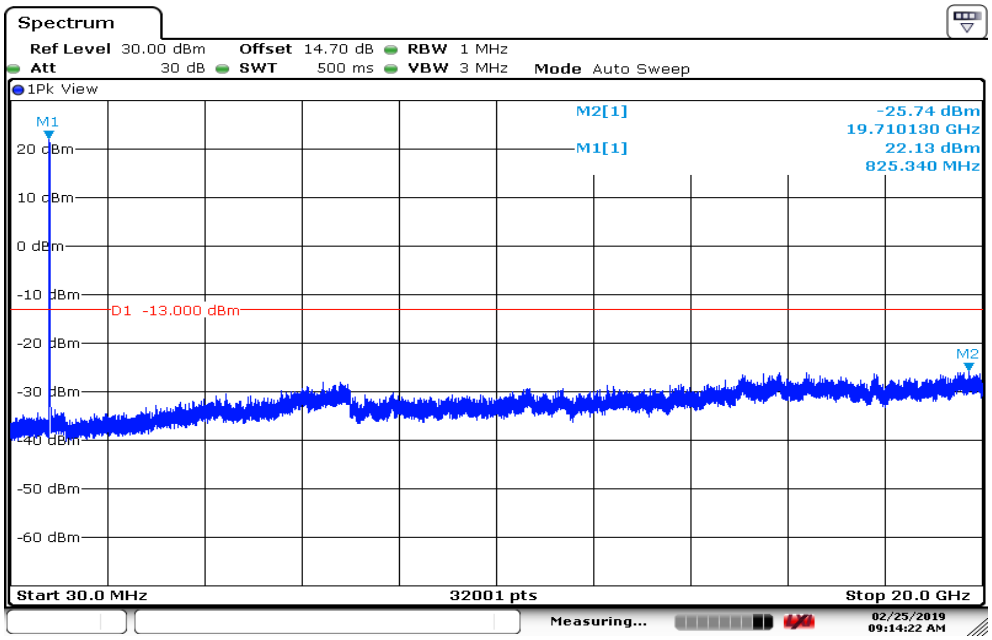
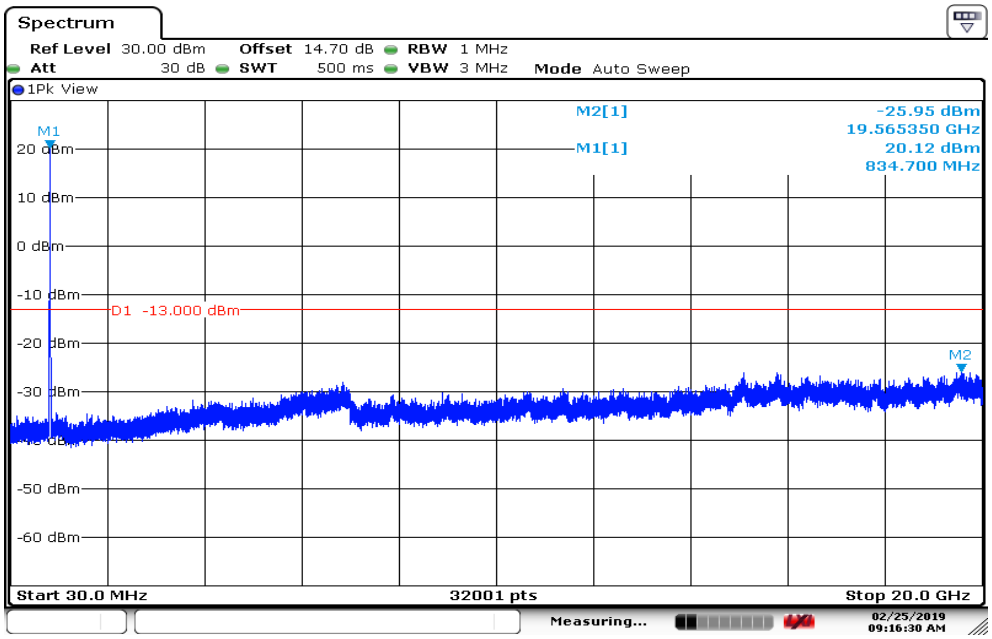
CHANNEL BANDWIDTH: 10MHz / QPSK

CH Low



Date: 25.FEB.2019 09:14:23

CH Mid



Date: 25.FEB.2019 09:16:30

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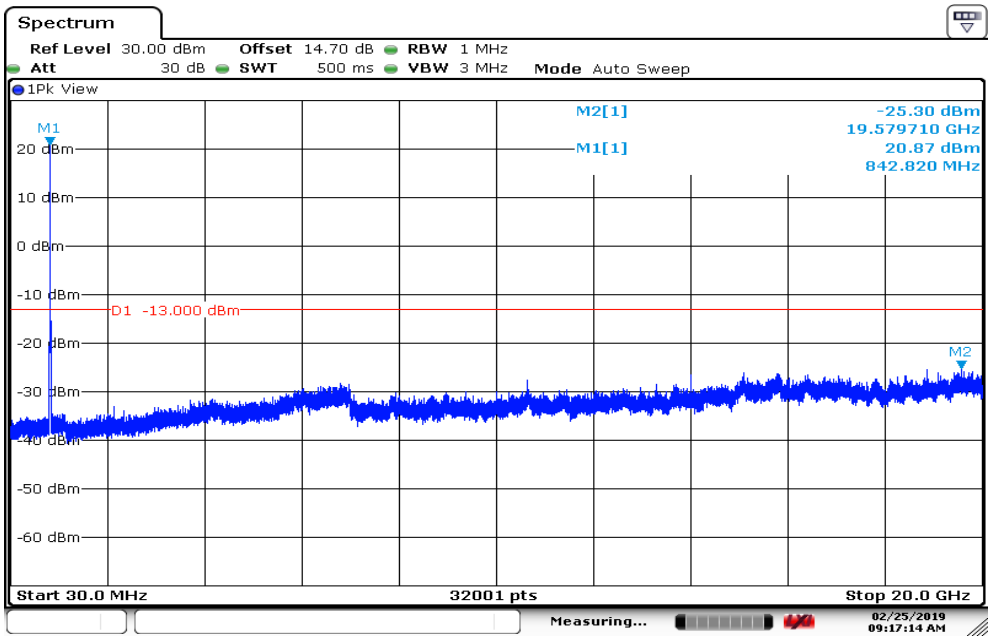
CH High



Date: 25.FEB.2019 09:17:14

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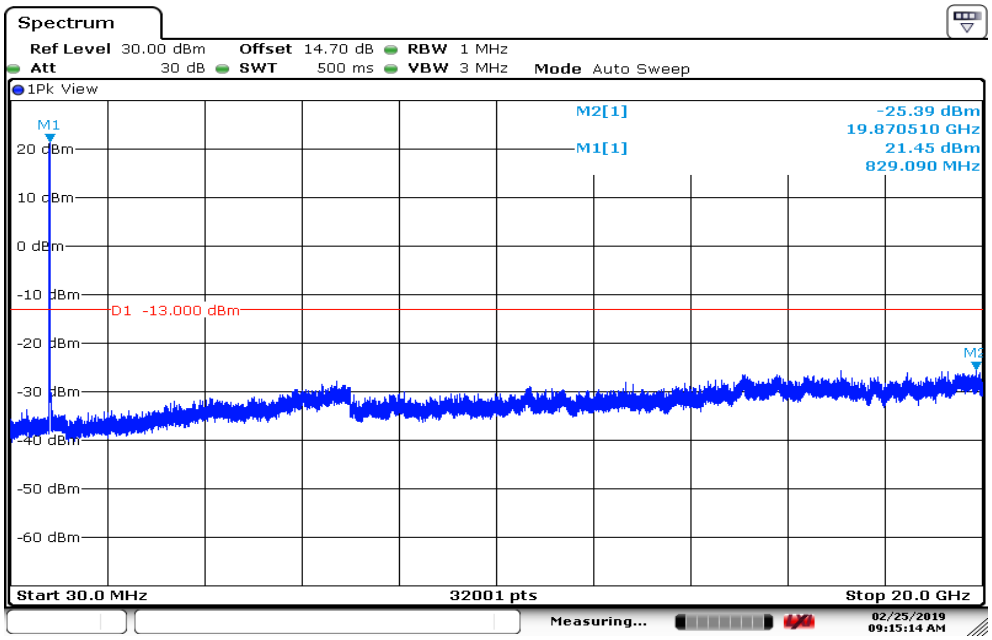
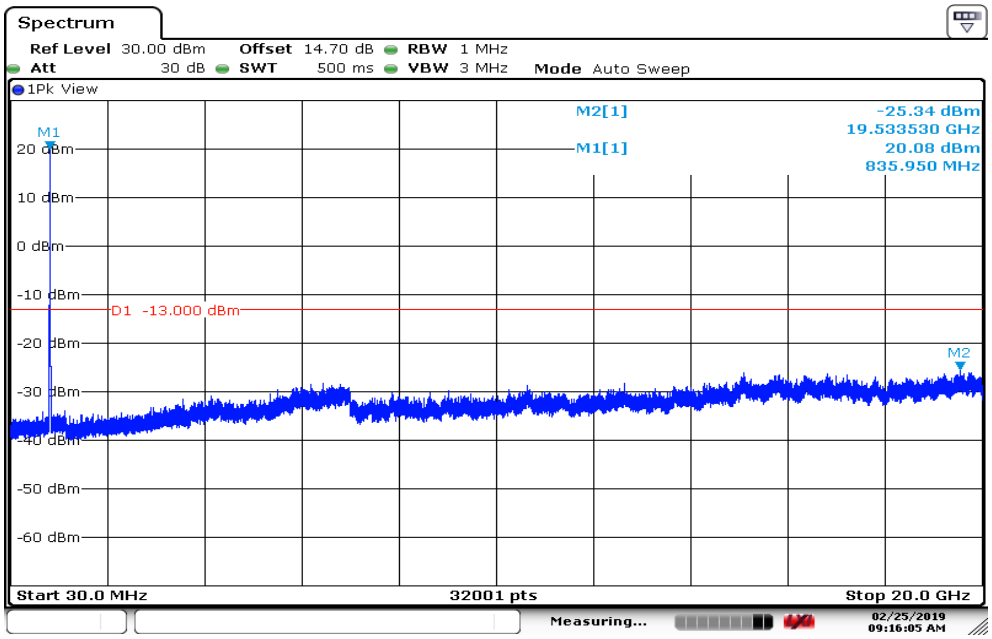
CHANNEL BANDWIDTH: 10MHz / 16QAM

CH Low



Date: 25.FEB.2019 09:15:15

CH Mid



Date: 25.FEB.2019 09:16:05

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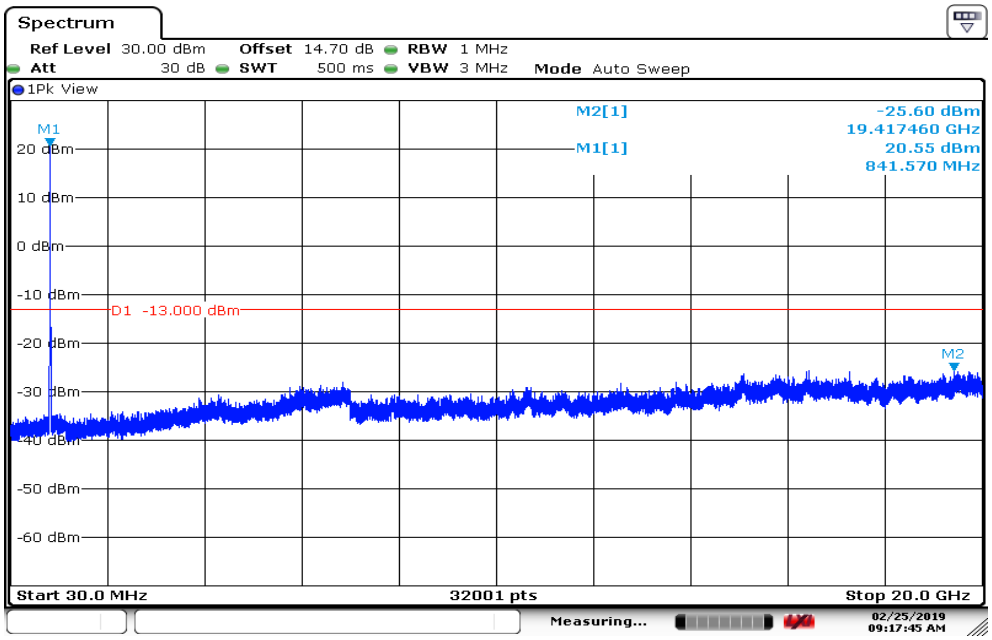
CH High



Date: 25.FEB.2019 09:17:46

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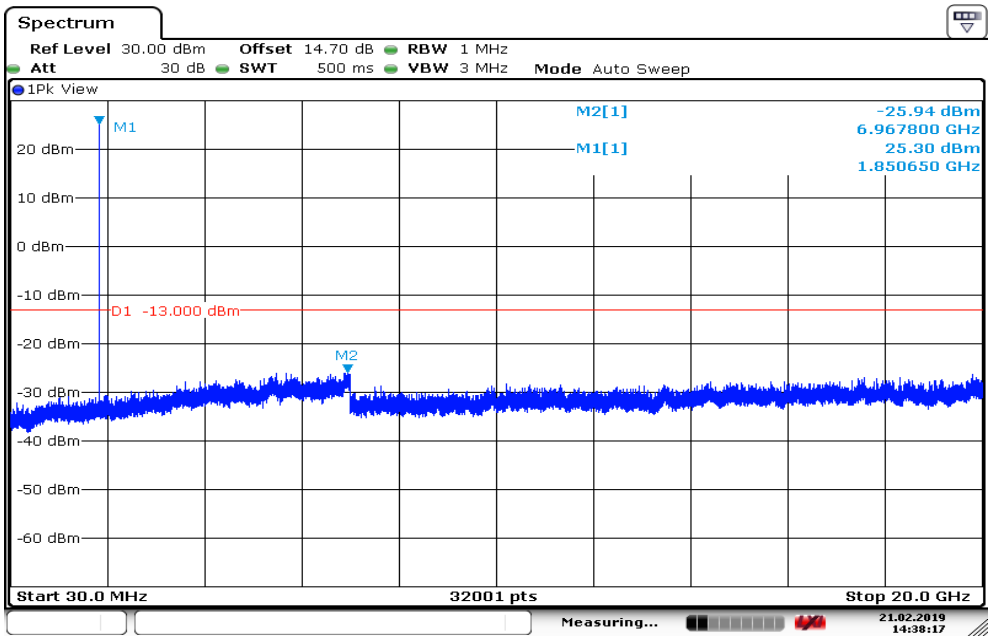
LTE Band 2

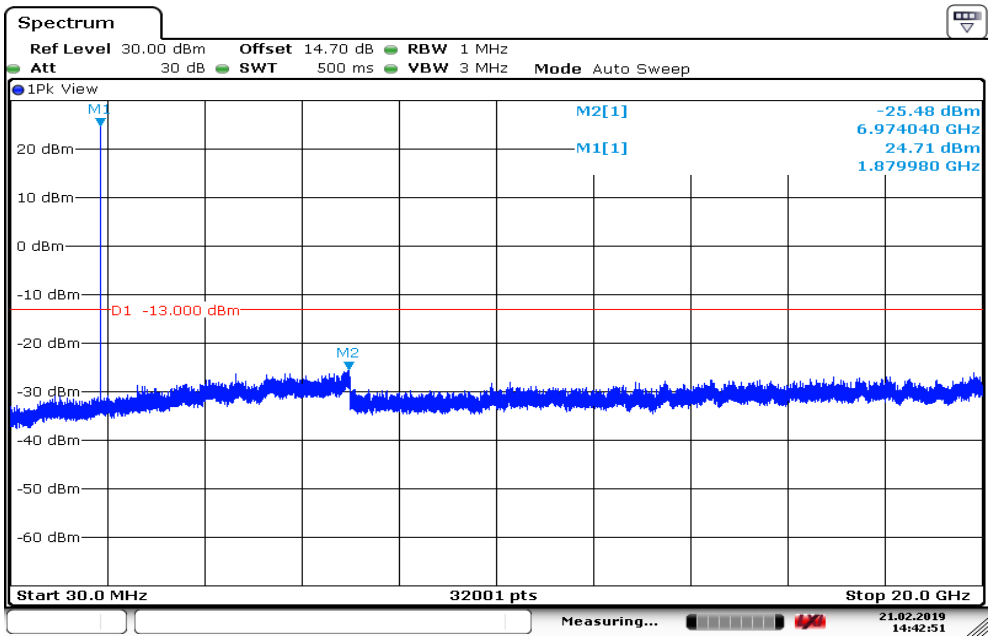
CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH Low



Date: 21.FEB.2019 14:38:17

CH Mid



Date: 21.FEB.2019 14:42:51

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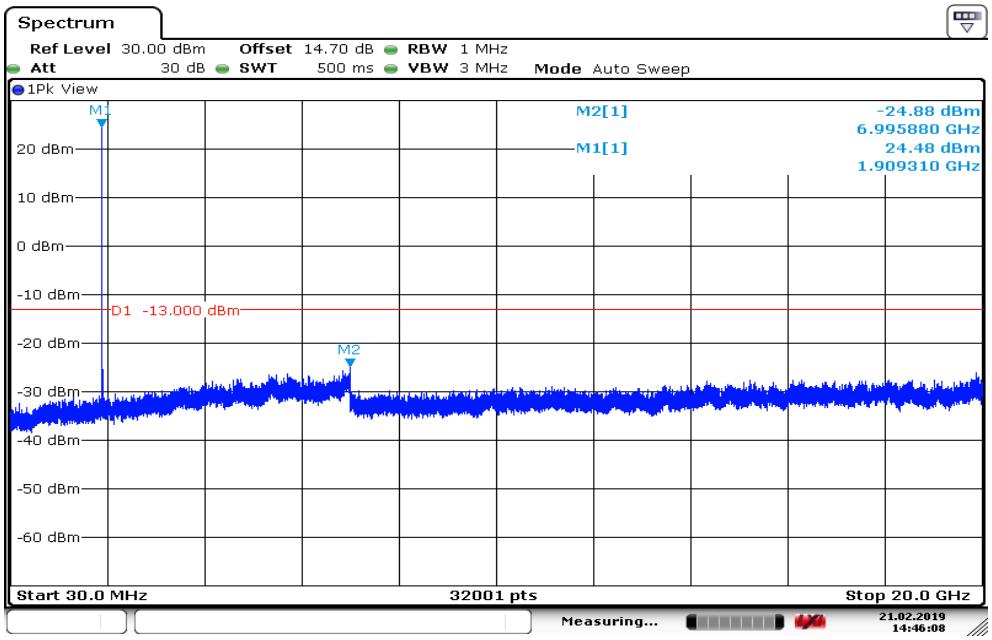
CH High



Date: 21.FEB.2019 14:46:08

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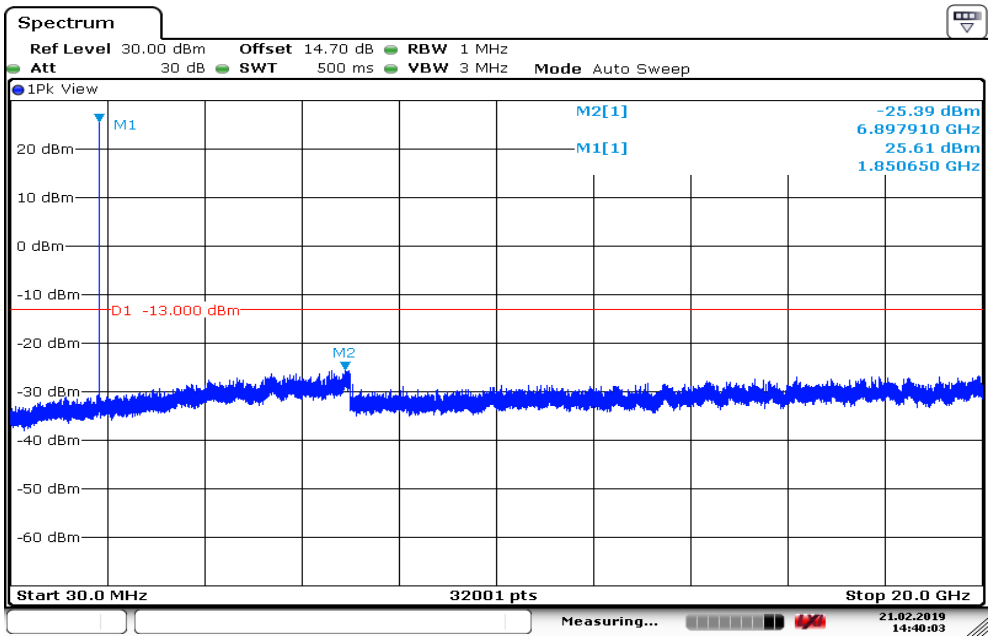
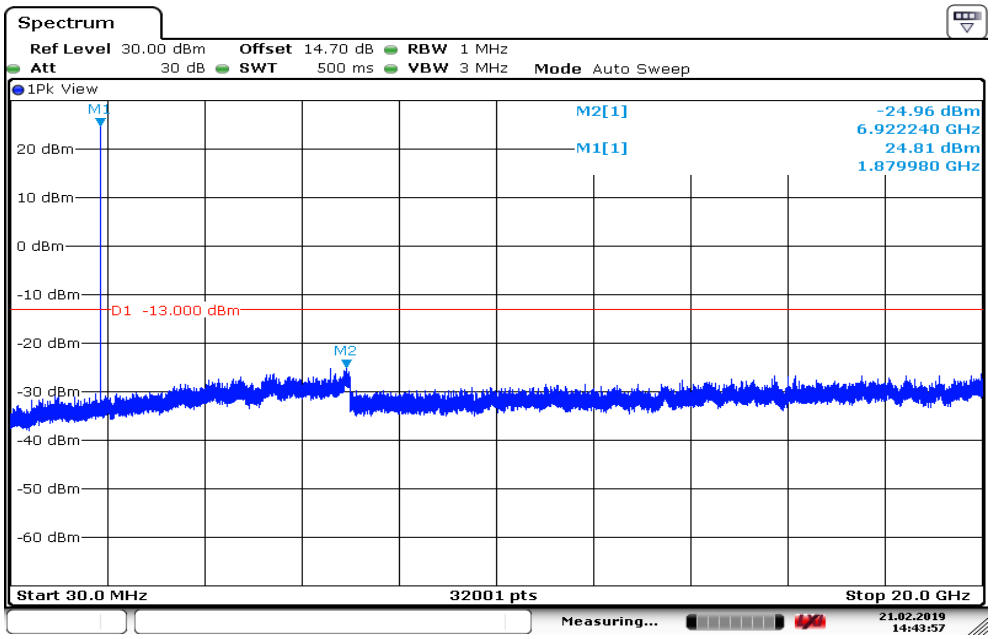
CHANNEL BANDWIDTH: 1.4MHz / 16QAM

CH Low



Date: 21.FEB.2019 14:40:03

CH Mid



Date: 21.FEB.2019 14:43:57

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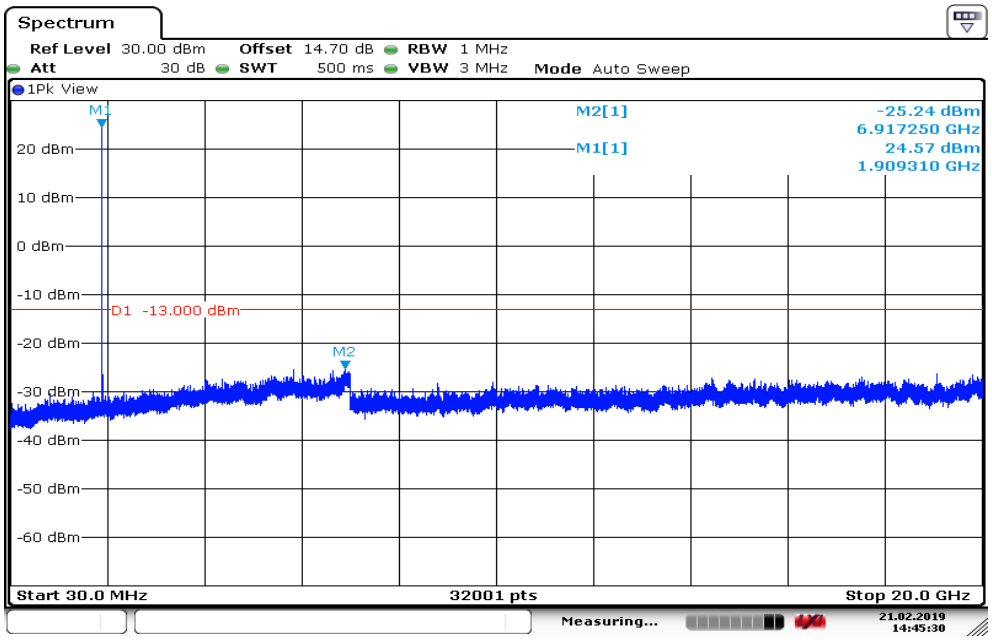
CH High



Date: 21.FEB.2019 14:45:30

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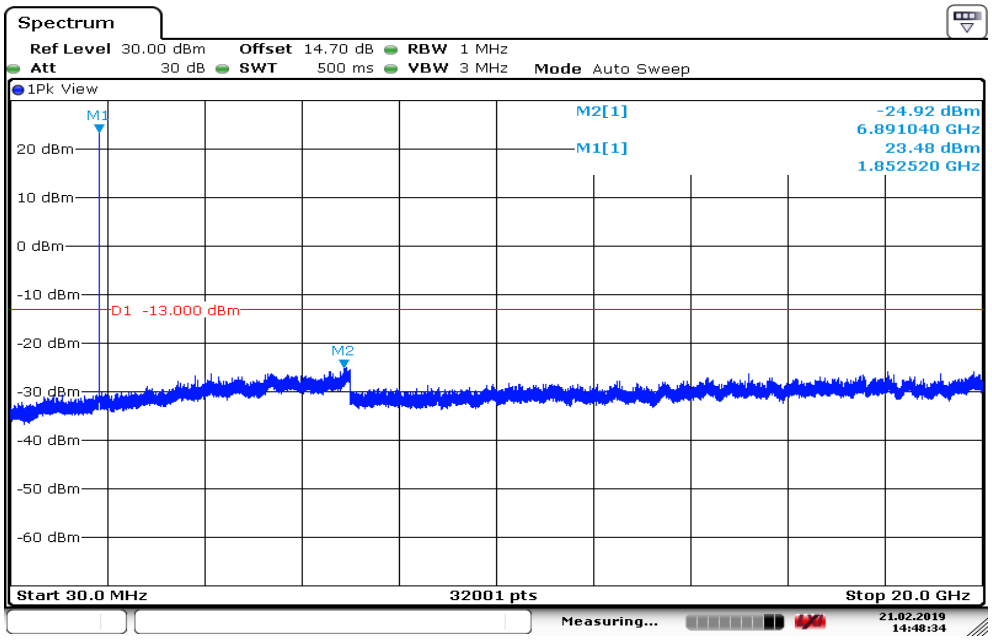
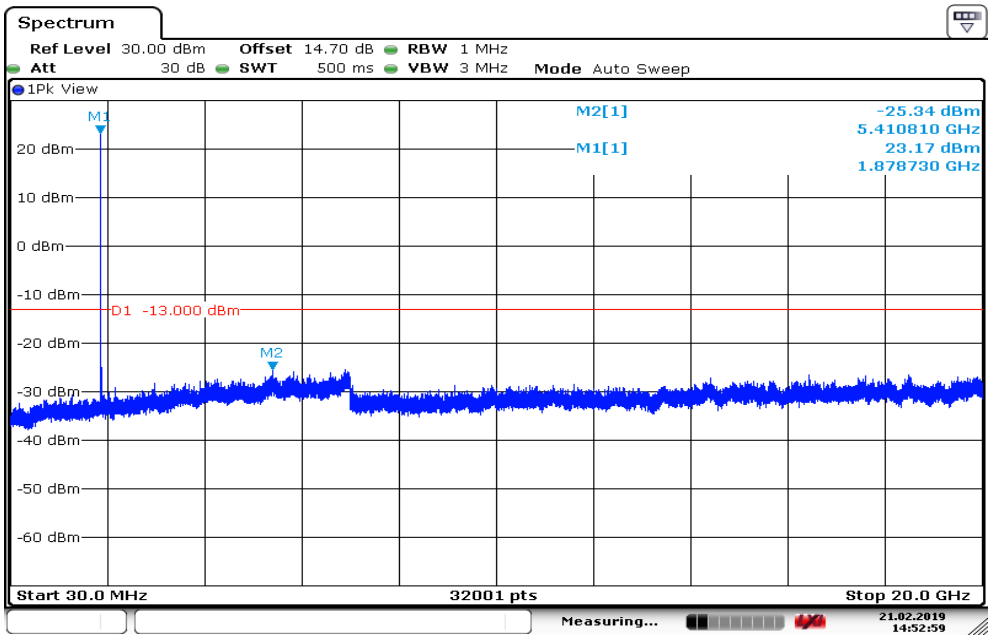
CHANNEL BANDWIDTH: 3MHz / QPSK

CH Low



Date: 21.FEB.2019 14:48:34

CH Mid



Date: 21.FEB.2019 14:52:59

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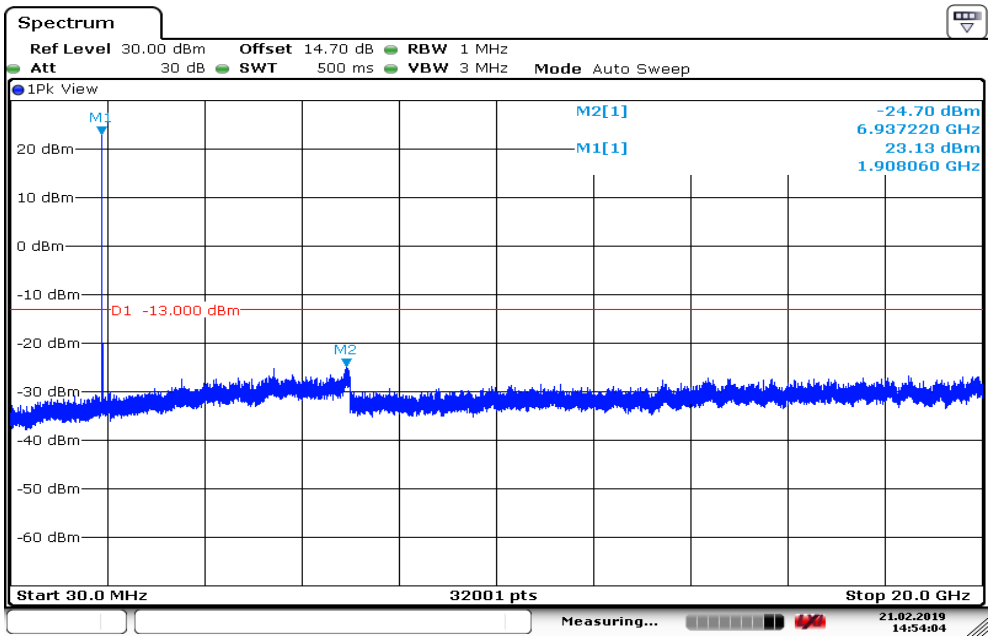
CH High



Date: 21.FEB.2019 14:54:04

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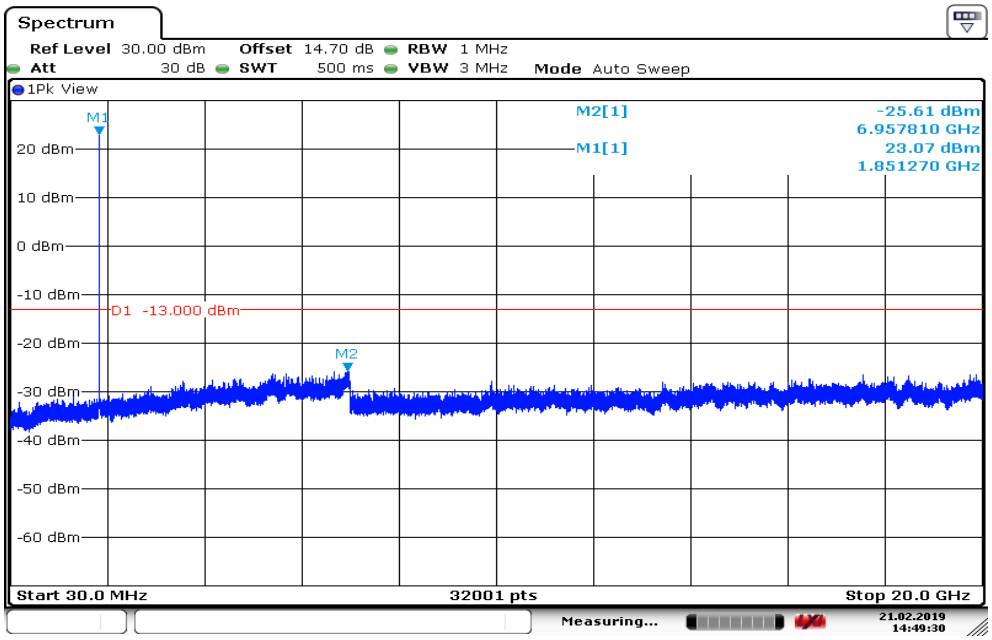
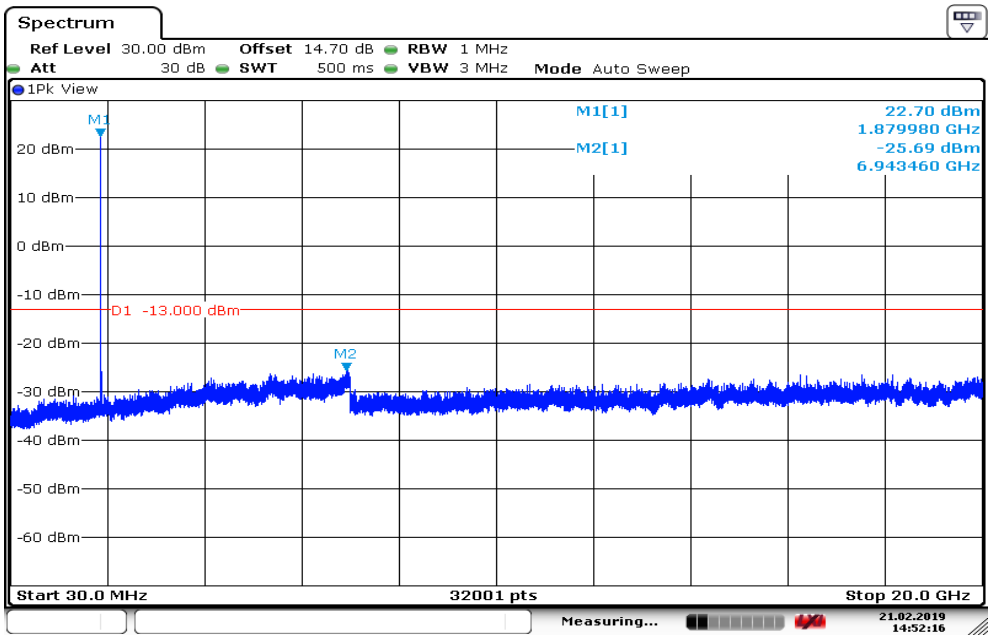
CHANNEL BANDWIDTH: 3MHz / 16QAM

CH Low



Date: 21.FEB.2019 14:49:30

CH Mid



Date: 21.FEB.2019 14:52:16

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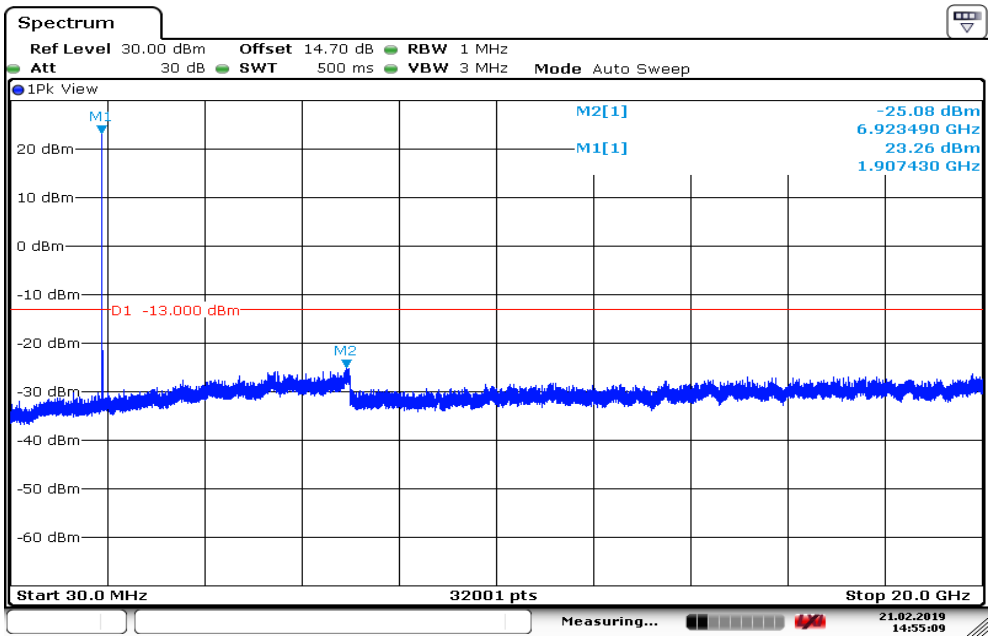
CH High



Date: 21.FEB.2019 14:55:09

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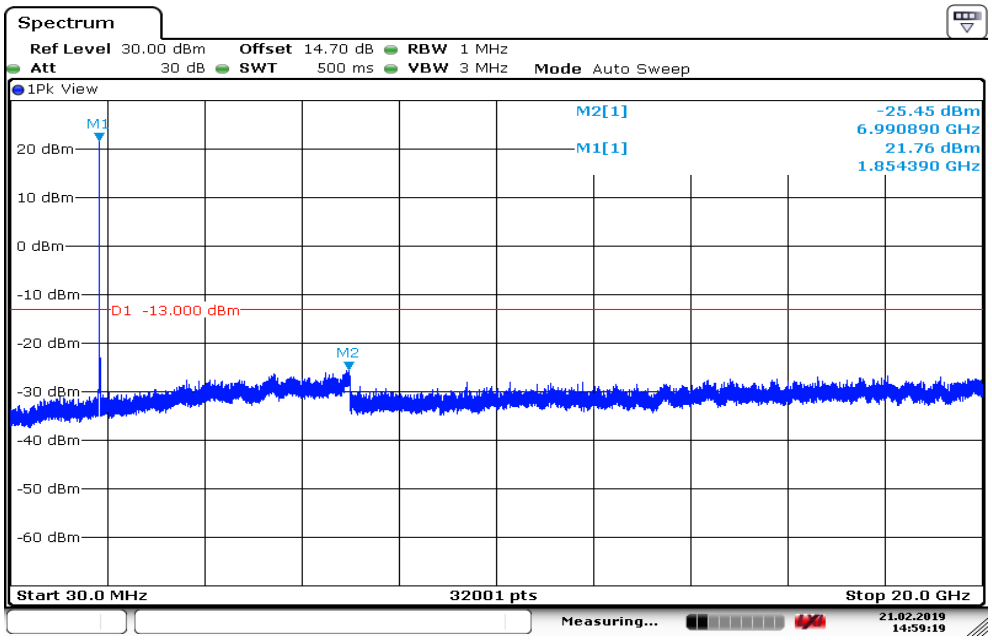
CHANNEL BANDWIDTH: 5MHz / QPSK

CH Low



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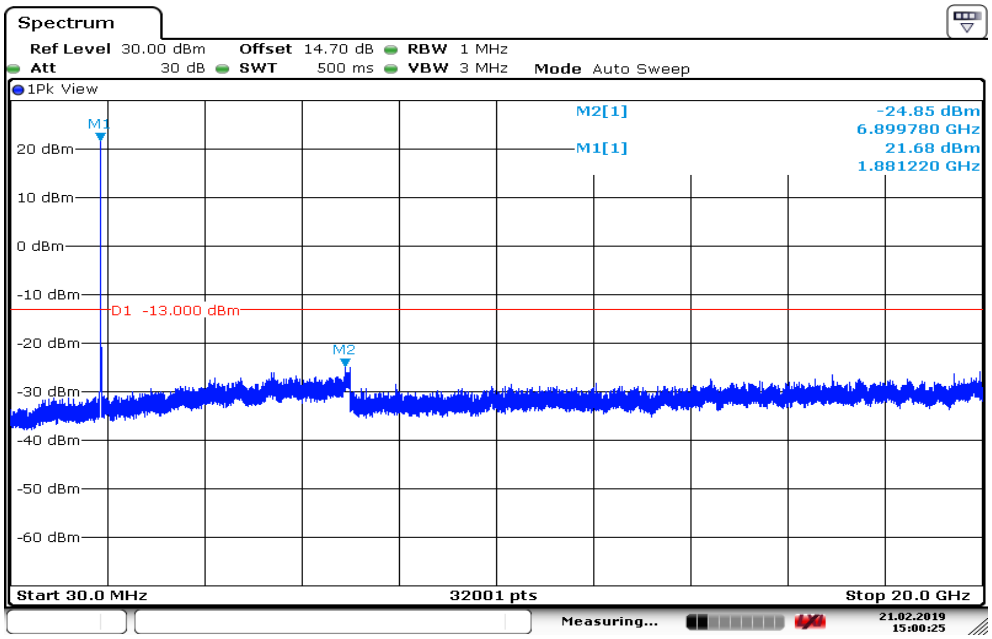
CH Mid



Date: 21.FEB.2019 15:00:25

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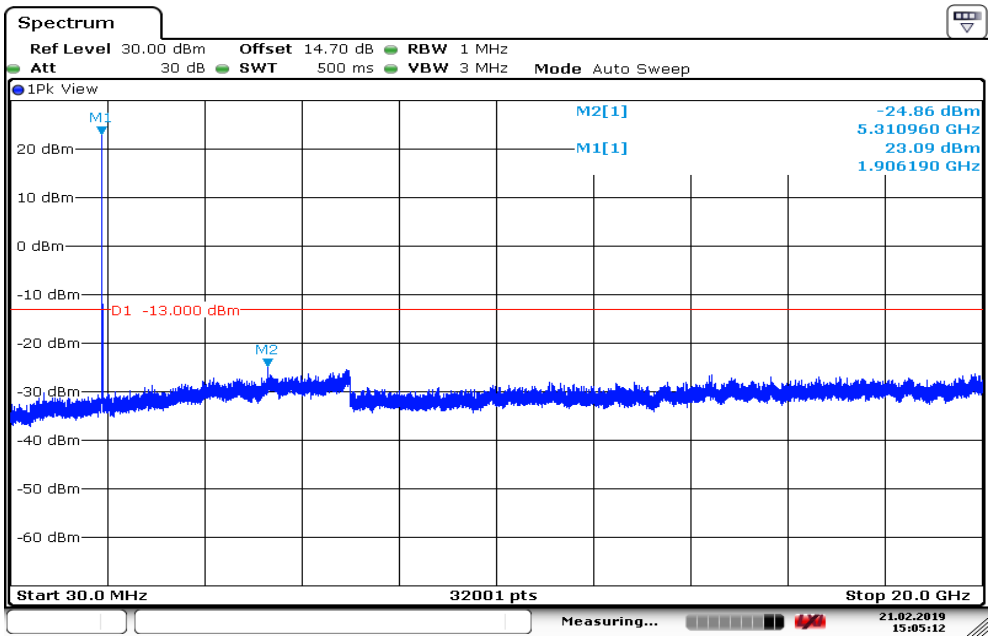
CH High



Date: 21.FEB.2019 15:05:12

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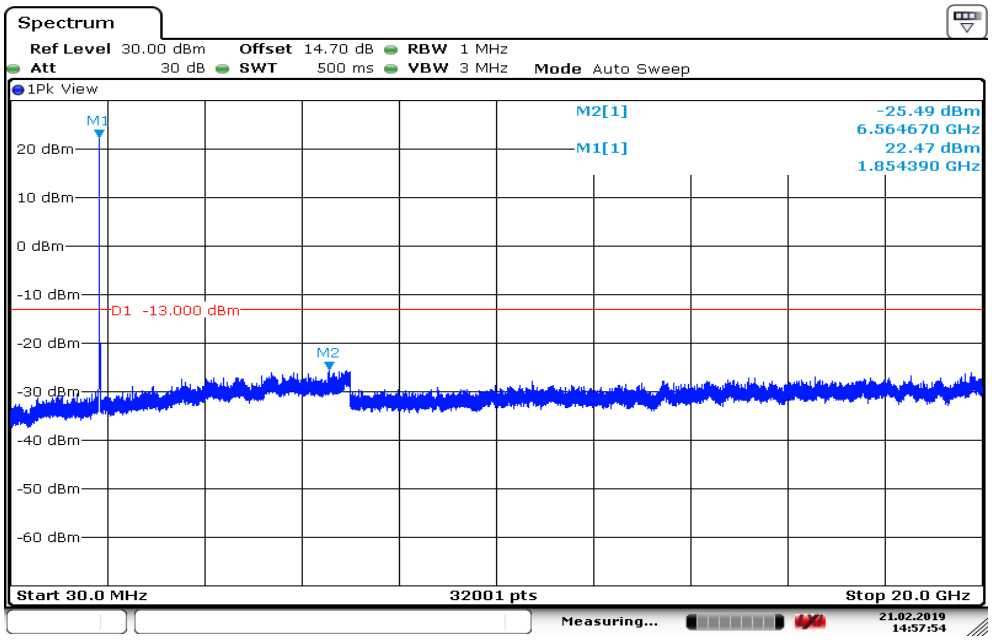
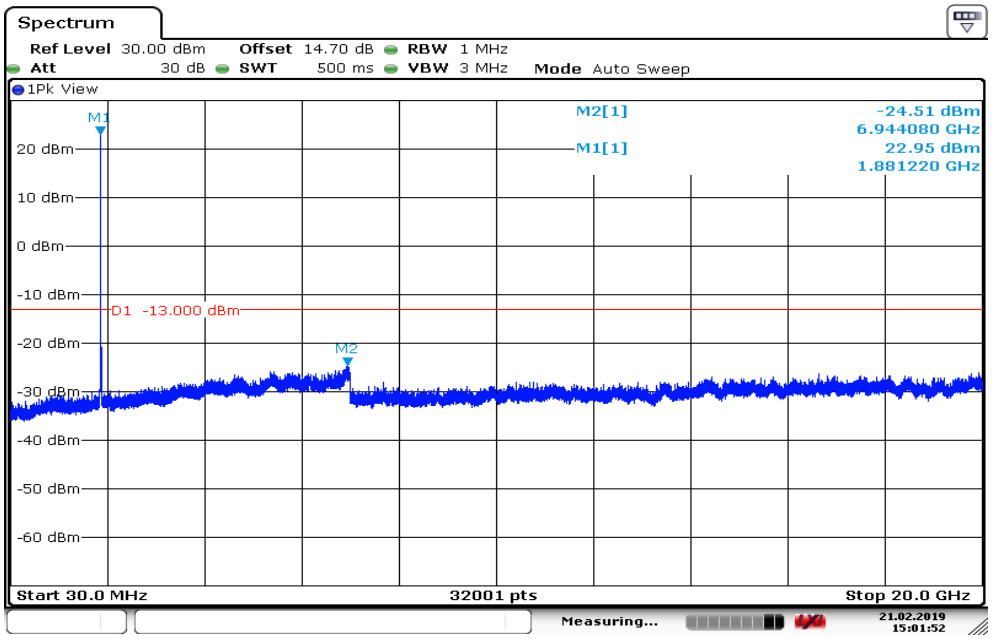
CHANNEL BANDWIDTH: 5MHz / 16QAM

CH Low



Date: 21.FEB.2019 14:57:54

CH Mid



Date: 21.FEB.2019 15:01:52

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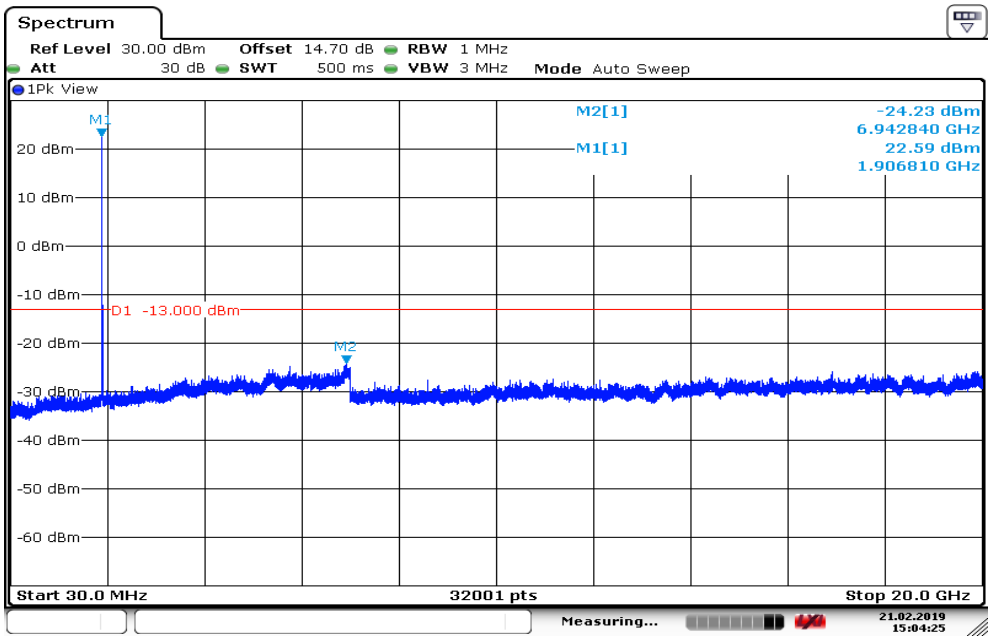
CH High



Date: 21.FEB.2019 15:04:25

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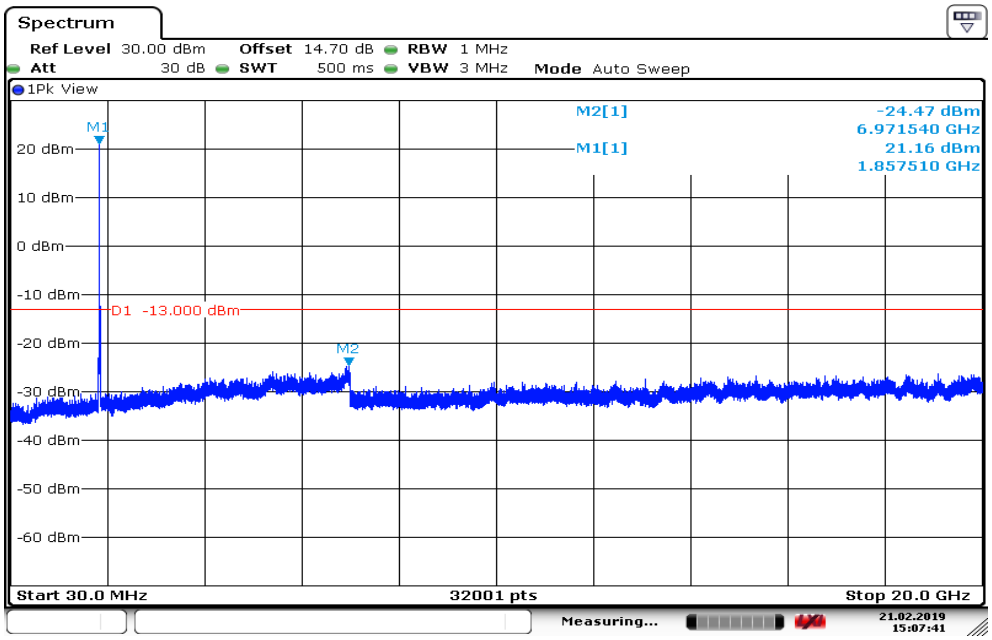
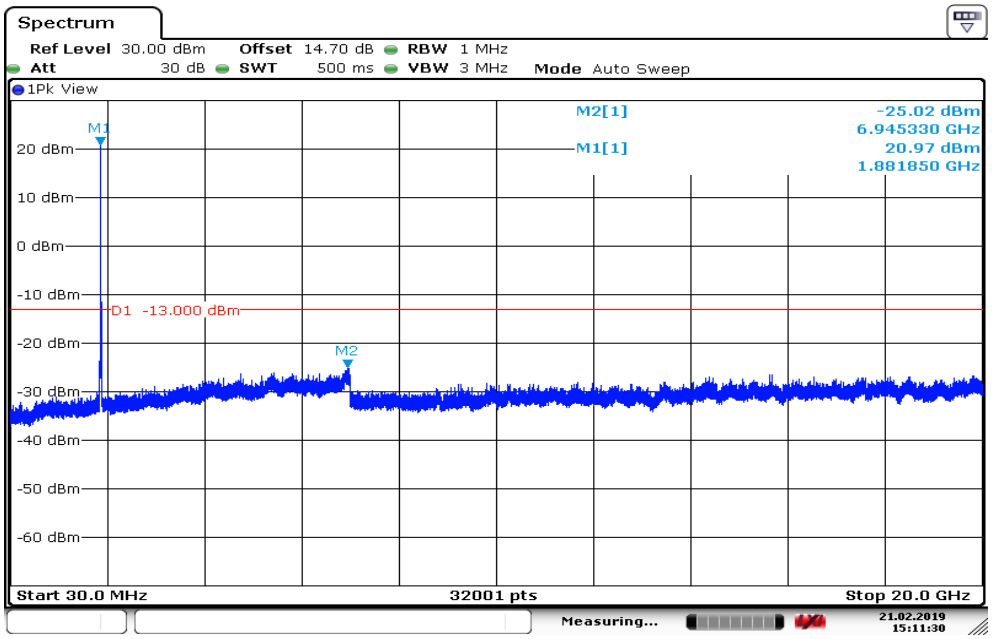
CHANNEL BANDWIDTH: 10MHz / QPSK

CH Low



Date: 21.FEB.2019 15:07:41

CH Mid



Date: 21.FEB.2019 15:11:30

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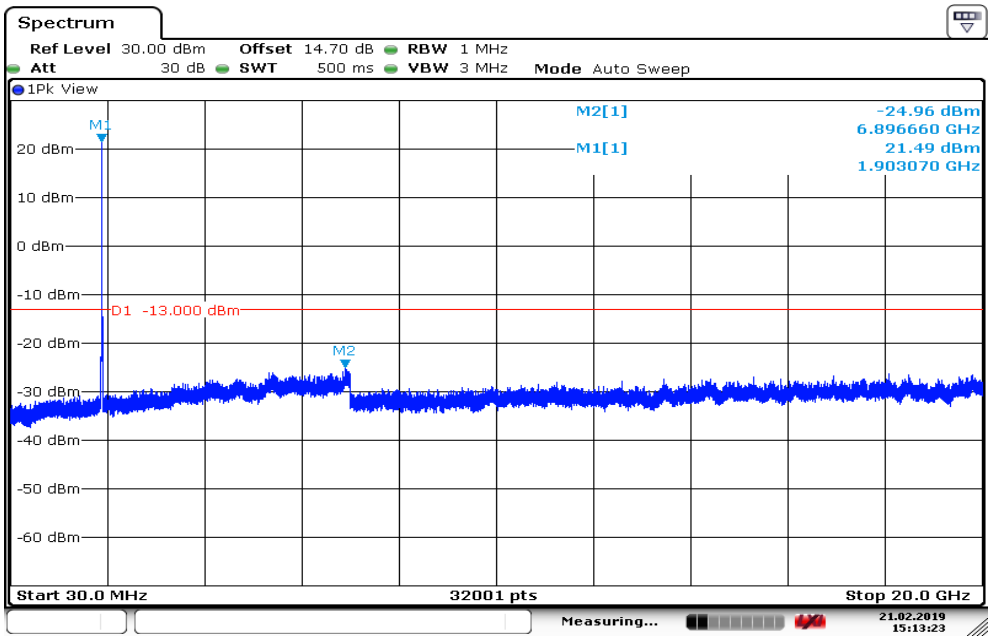
CH High



Date: 21.FEB.2019 15:13:23

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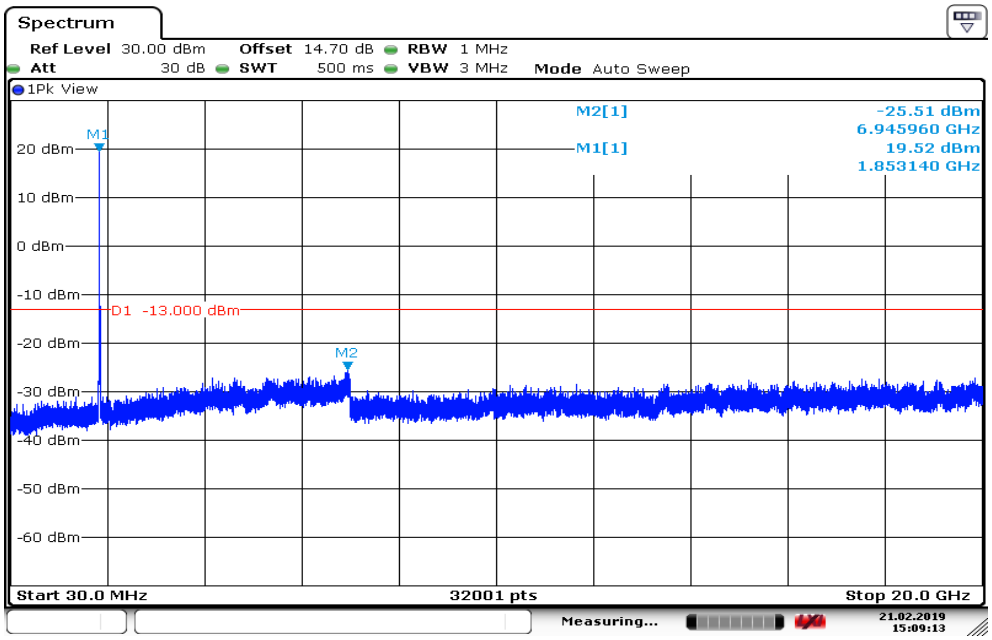
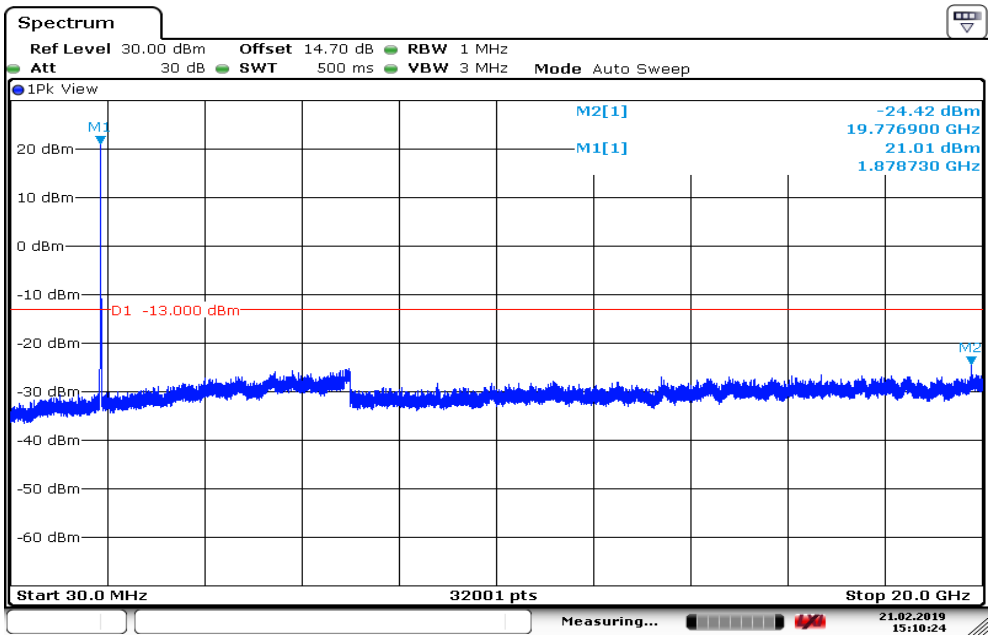
CHANNEL BANDWIDTH: 10MHz / 16QAM

CH Low



Date: 21.FEB.2019 15:09:13

CH Mid



Date: 21.FEB.2019 15:10:23

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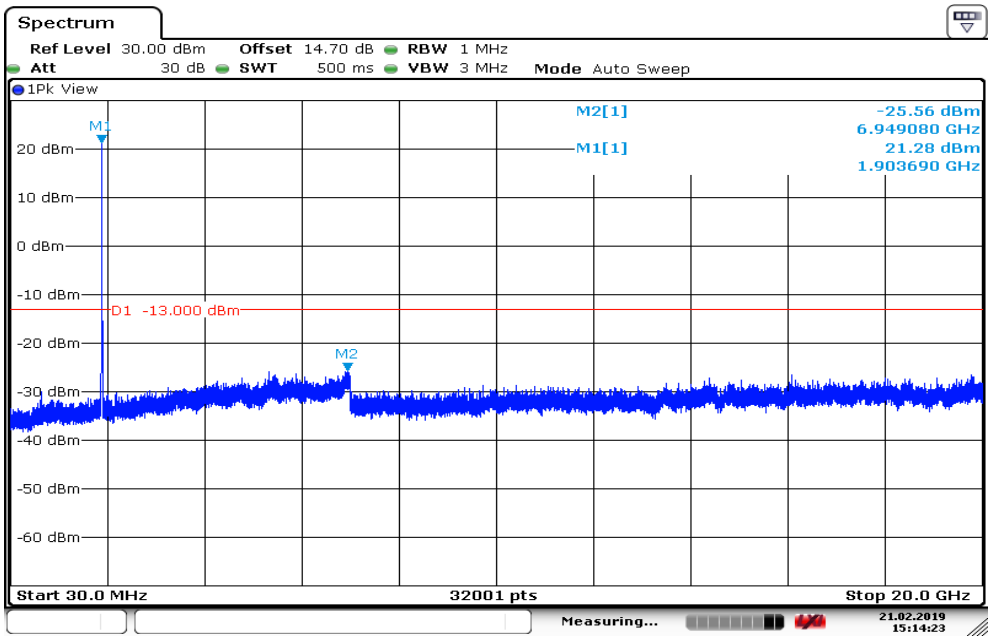
CH High



Date: 21.FEB.2019 15:14:23

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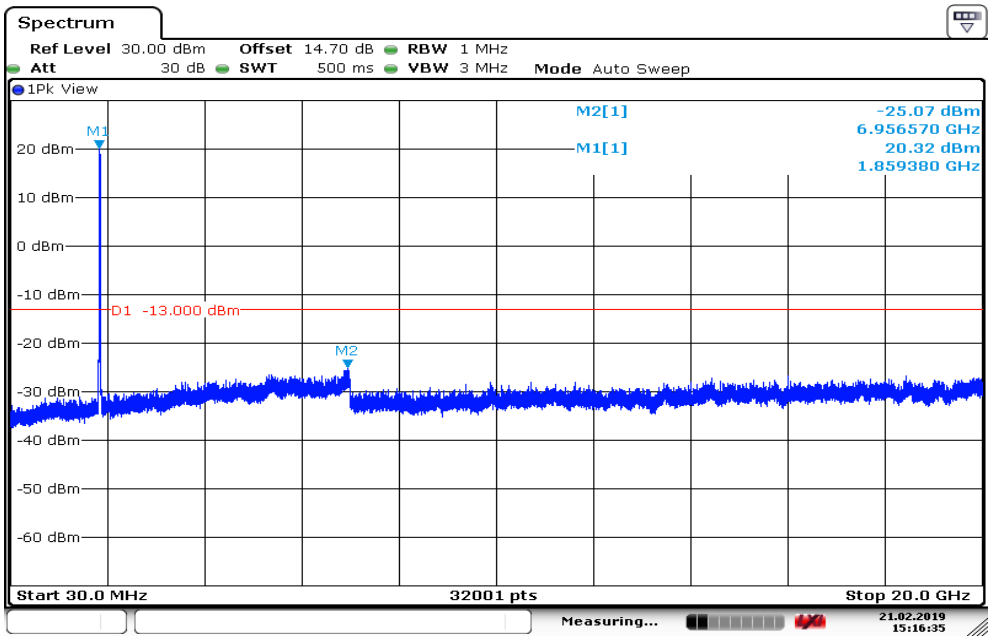
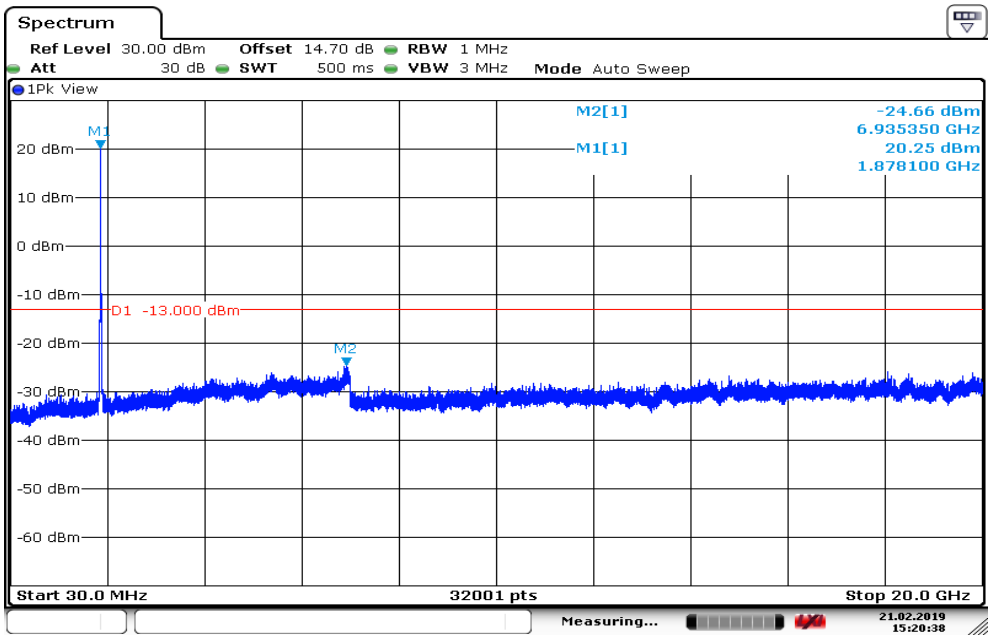
CHANNEL BANDWIDTH: 15MHz / QPSK

CH Low



Date: 21.FEB.2019 15:16:35

CH Mid



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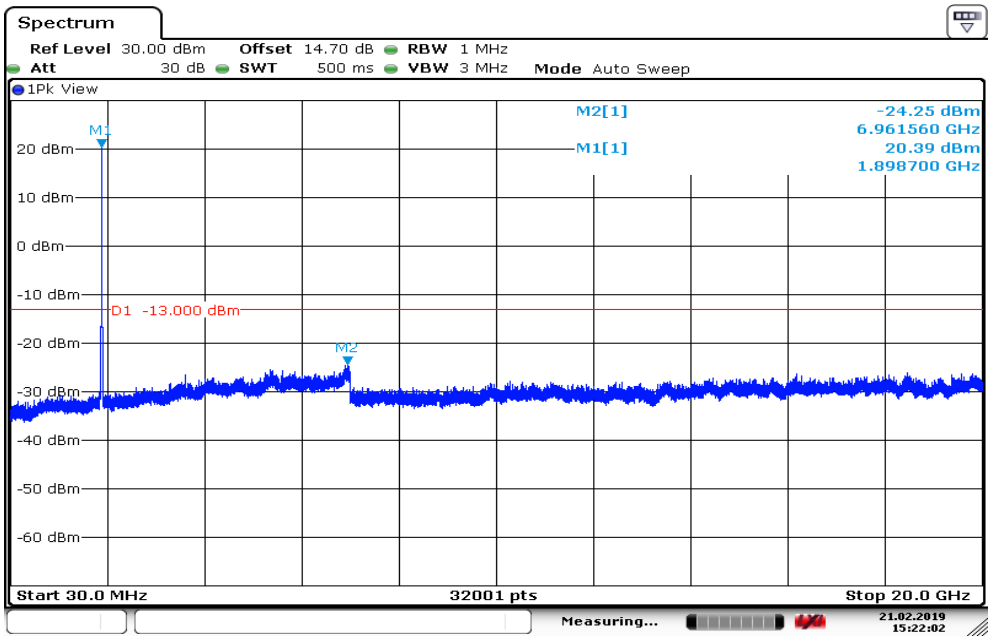
CH High



Date: 21.FEB.2019 15:22:02

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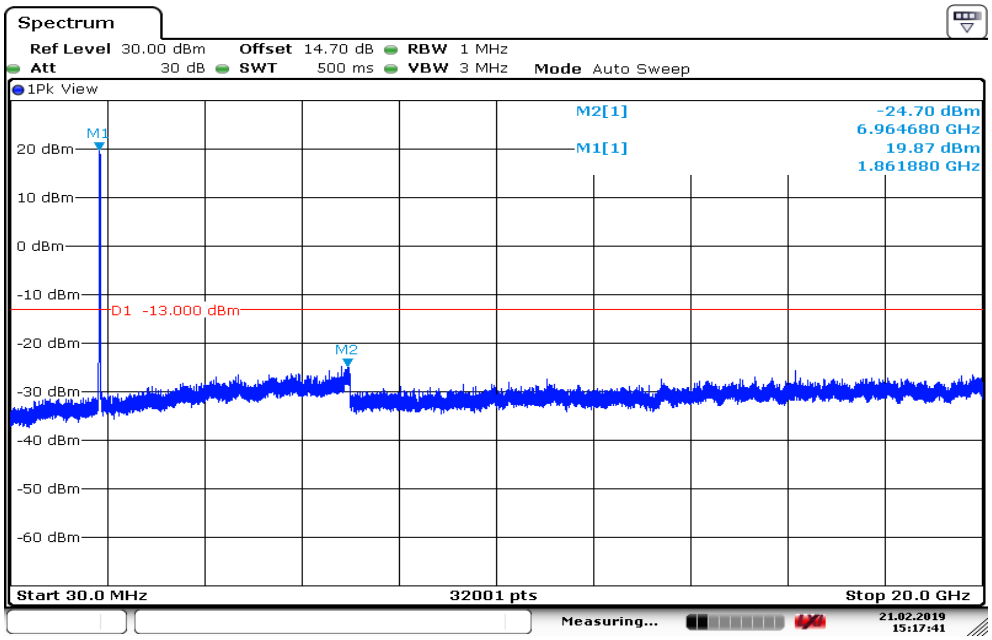
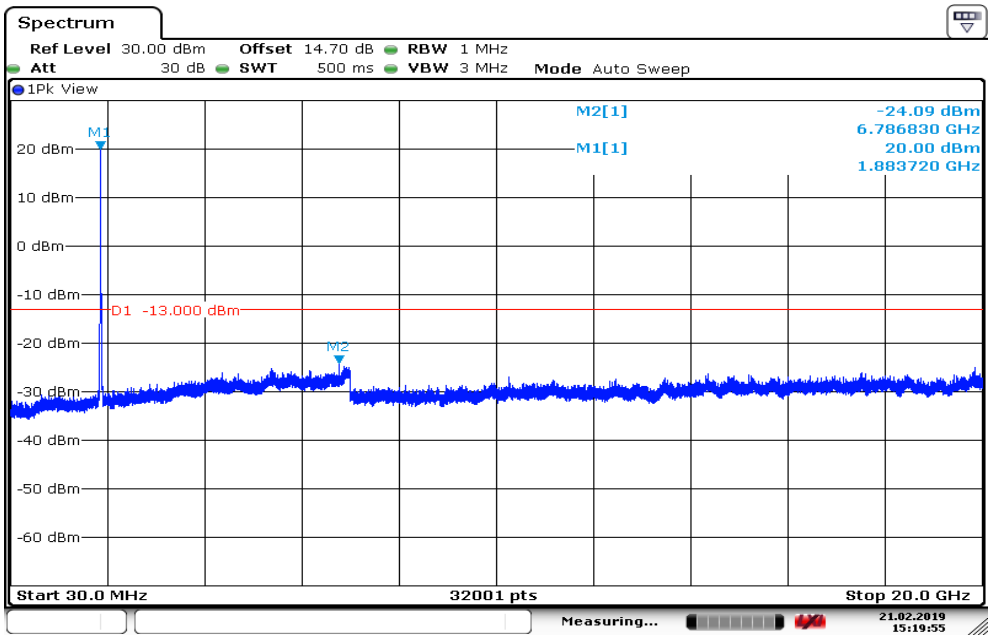
CHANNEL BANDWIDTH: 15MHz / 16QAM

CH Low



Date: 21.FEB.2019 15:17:41

CH Mid



Date: 21.FEB.2019 15:19:55

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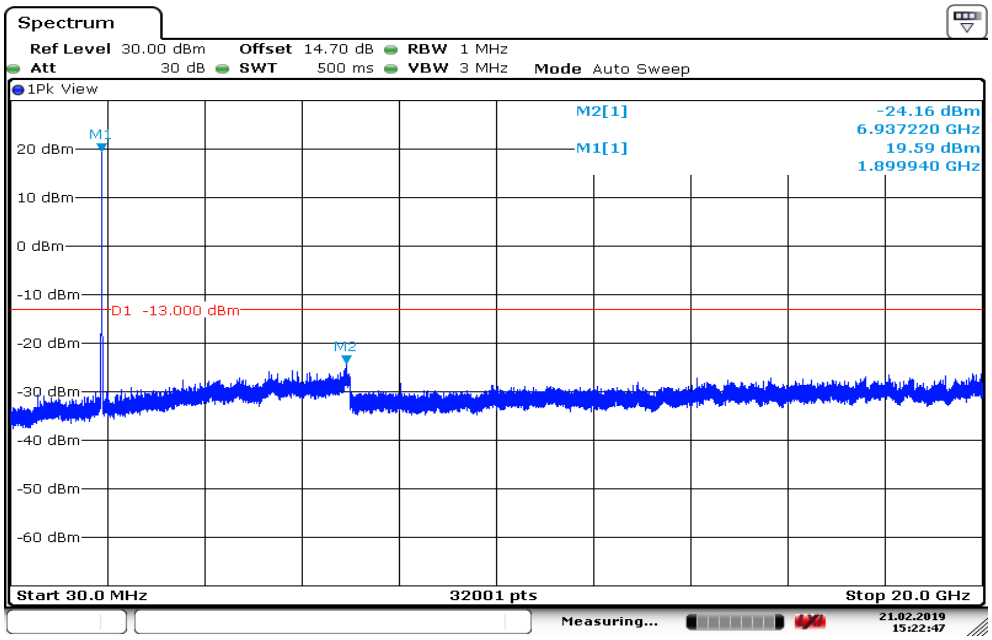
CH High



Date: 21.FEB.2019 15:22:47

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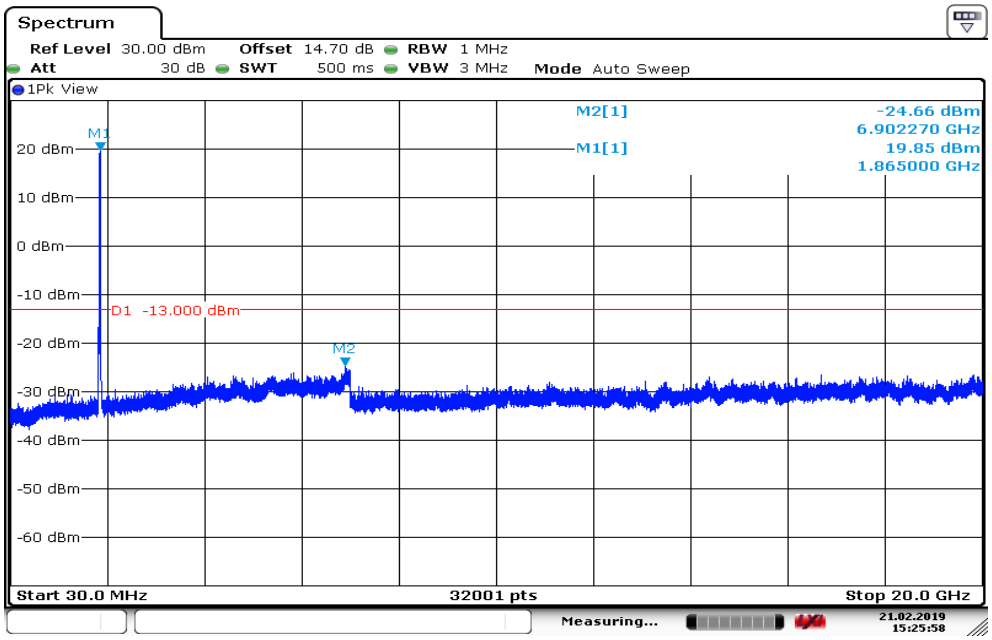
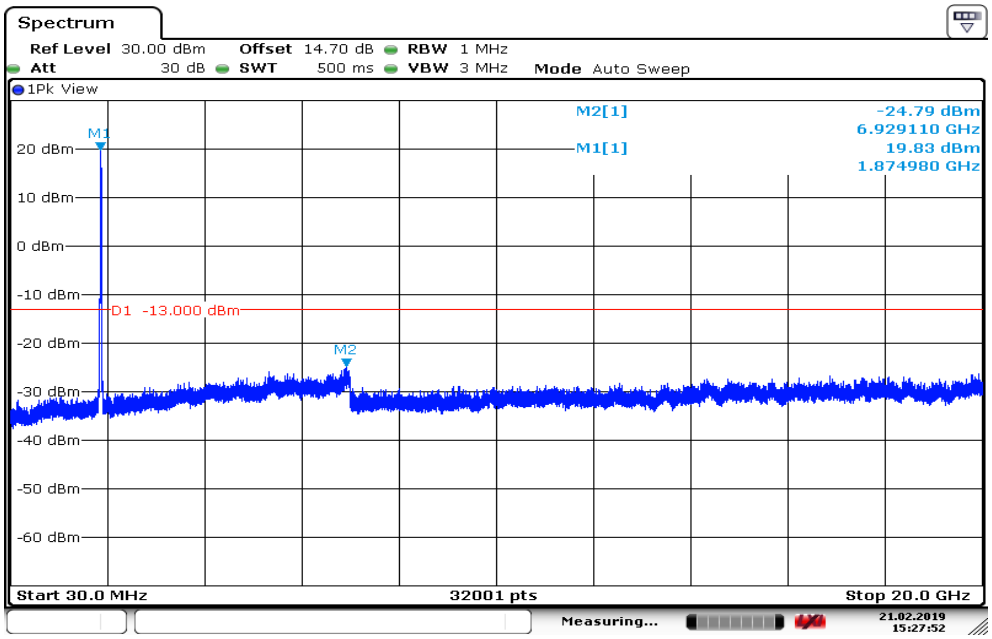
CHANNEL BANDWIDTH: 20MHz / QPSK

CH Low



Date: 21.FEB.2019 15:25:58

CH Mid



Date: 21.FEB.2019 15:27:52

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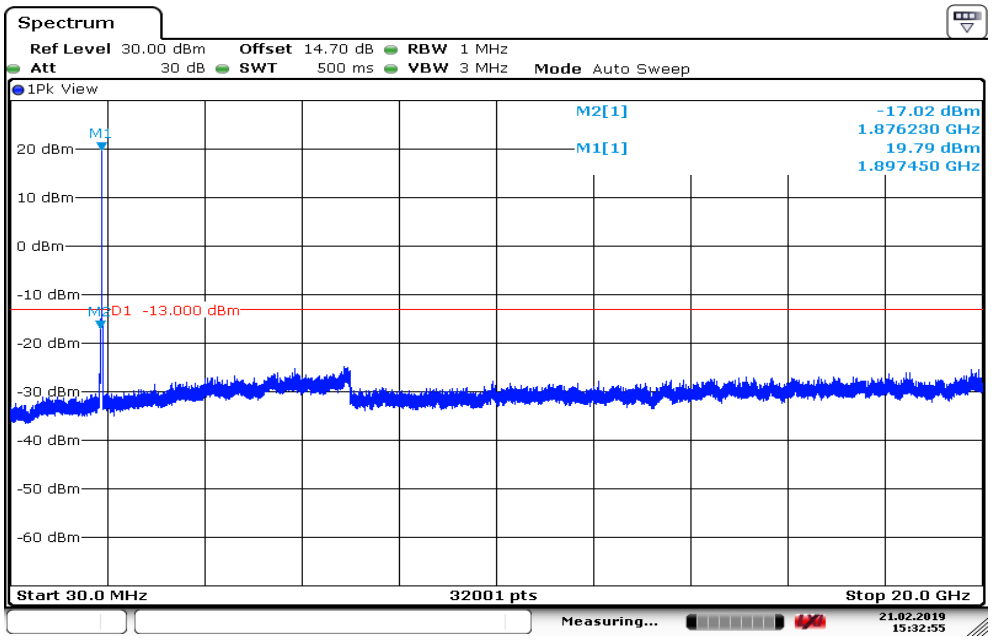
CH High



Date: 21.FEB.2019 15:32:55

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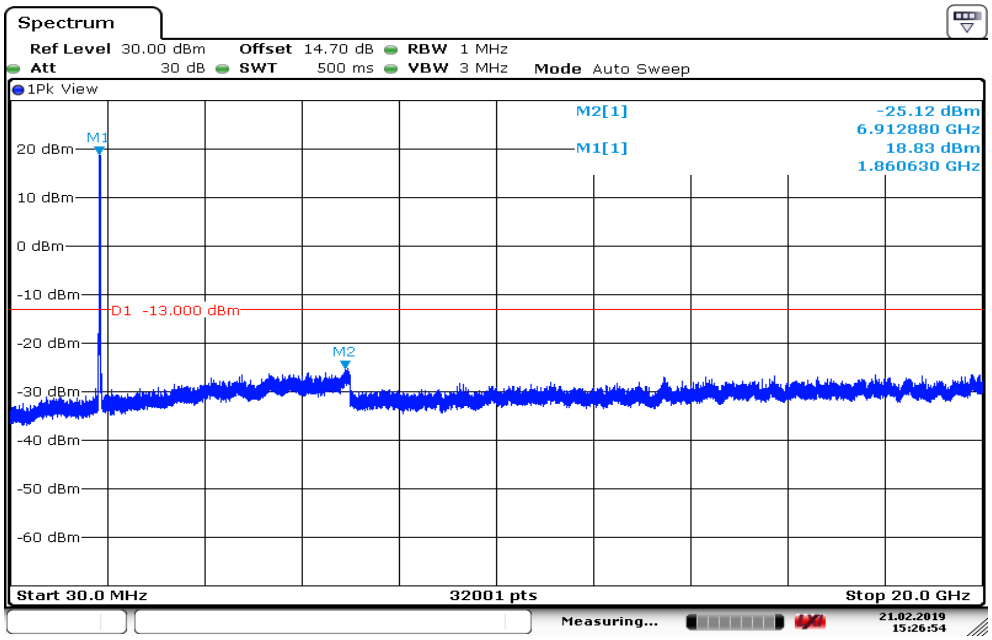
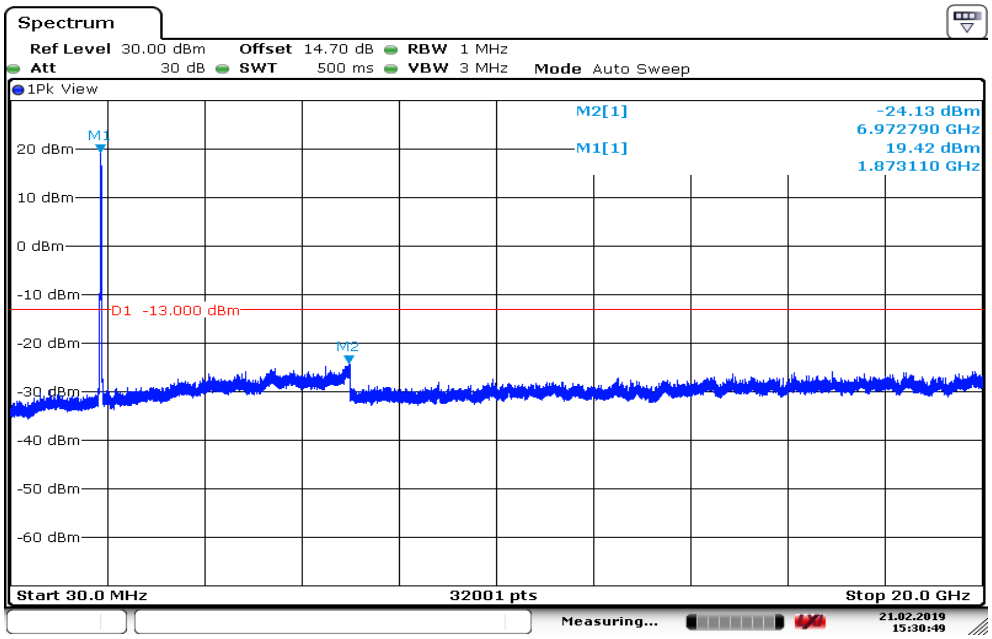
CHANNEL BANDWIDTH: 20MHz / 16QAM

CH Low



Date: 21.FEB.2019 15:26:54

CH Mid



Date: 21.FEB.2019 15:30:49

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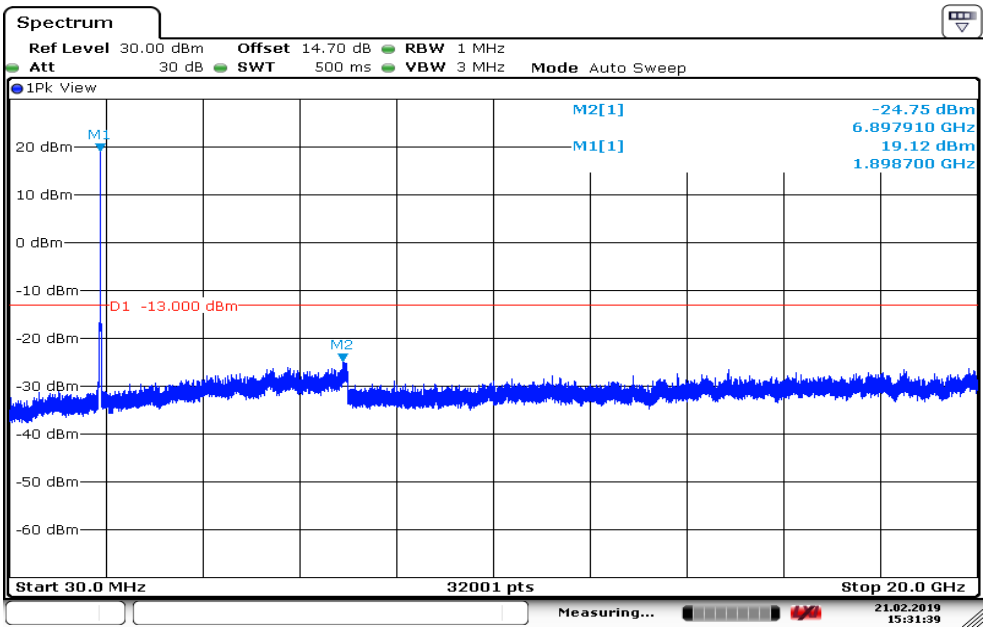

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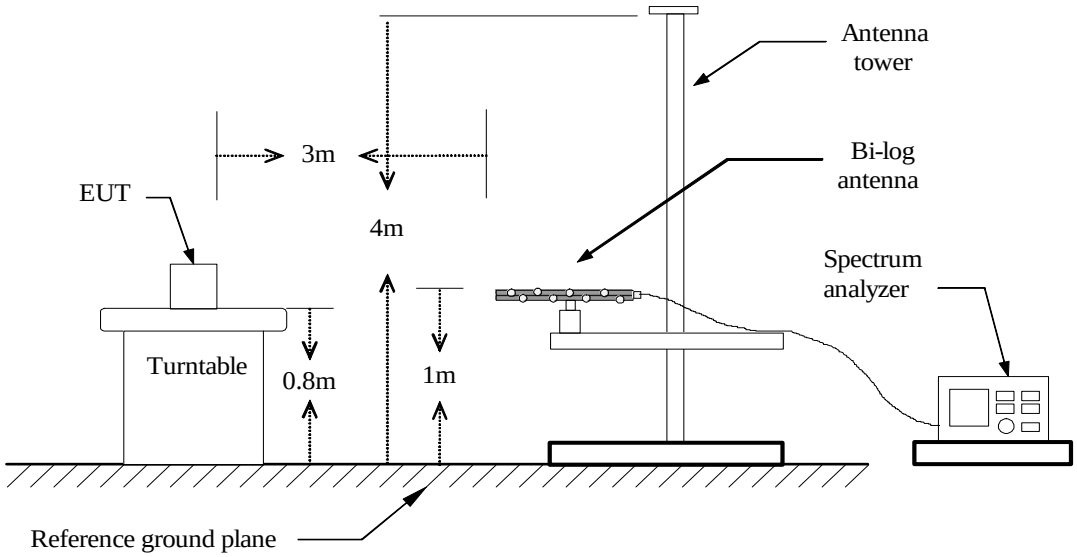
8.8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

LIMIT

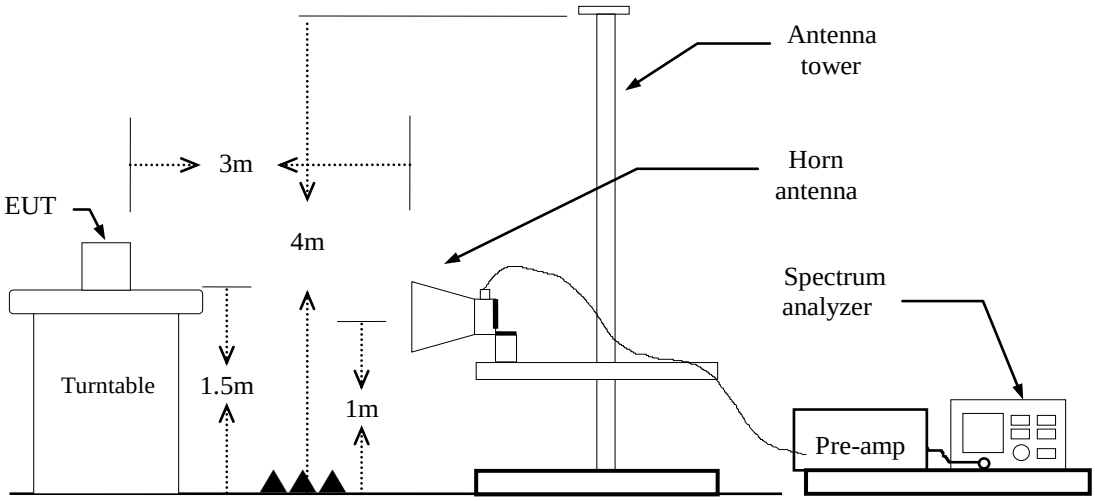
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to –13dBm

Test Configuration

Below 1 GHz



Above 1 GHz



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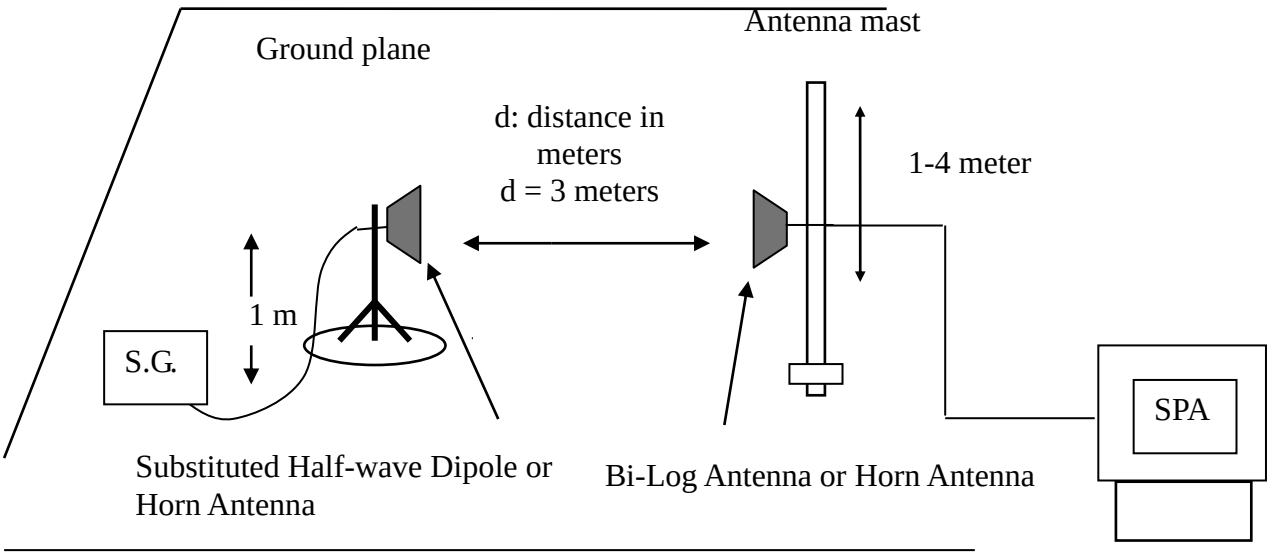
Substituted Method Test Set-up



TEST PROCEDURE

1. The EUT was placed on a turntable
   (1) Below 1G : 0.8m
   (2) Above 1G : 1.5m
   (3) EUT set 3m from the receiving antenna
   (4) The table was rotated 360 degrees of the highest spurious emission to determine the position.
2. Set the spectrum analyzer , RBW=1MHz, VBW=3MHz.
3. A horn antenna was driven by a signal generator.
4. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable (dB)

TEST RESULTS

Refer to the attached tabular data sheets.

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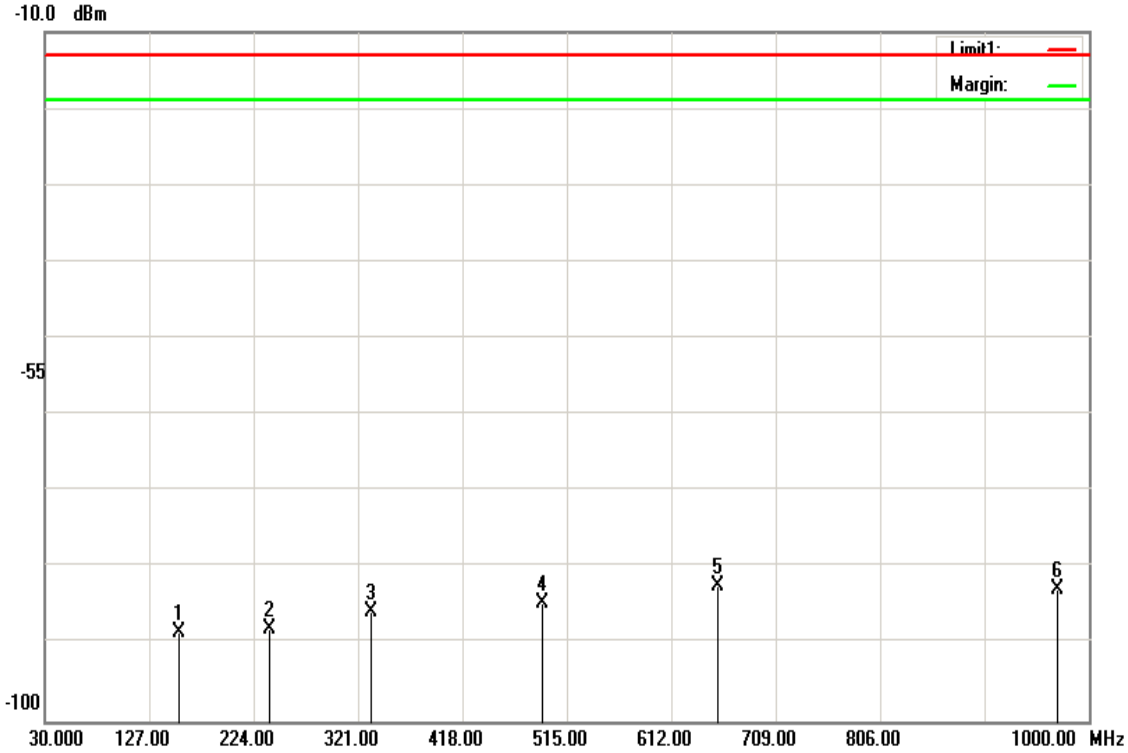
Test Results

Below 1GHz

LTE Band 5 / BW: 10MHz / QPSK / RB =1, RB Offset = 0

Operation Mode:	Tx / Mid CH	**Test Date:**	March 12, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
154.6450	-85.13	1.23	-88.51	-13.00	-75.51	V
238.5500	-84.33	1.53	-88.01	-13.00	-75.01	V
333.1250	-81.79	1.82	-85.76	-13.00	-72.76	V
493.1750	-80.25	2.23	-84.63	-13.00	-71.63	V
655.1650	-77.59	2.58	-82.32	-13.00	-69.32	V
971.3850	-77.51	3.18	-82.84	-13.00	-69.84	V

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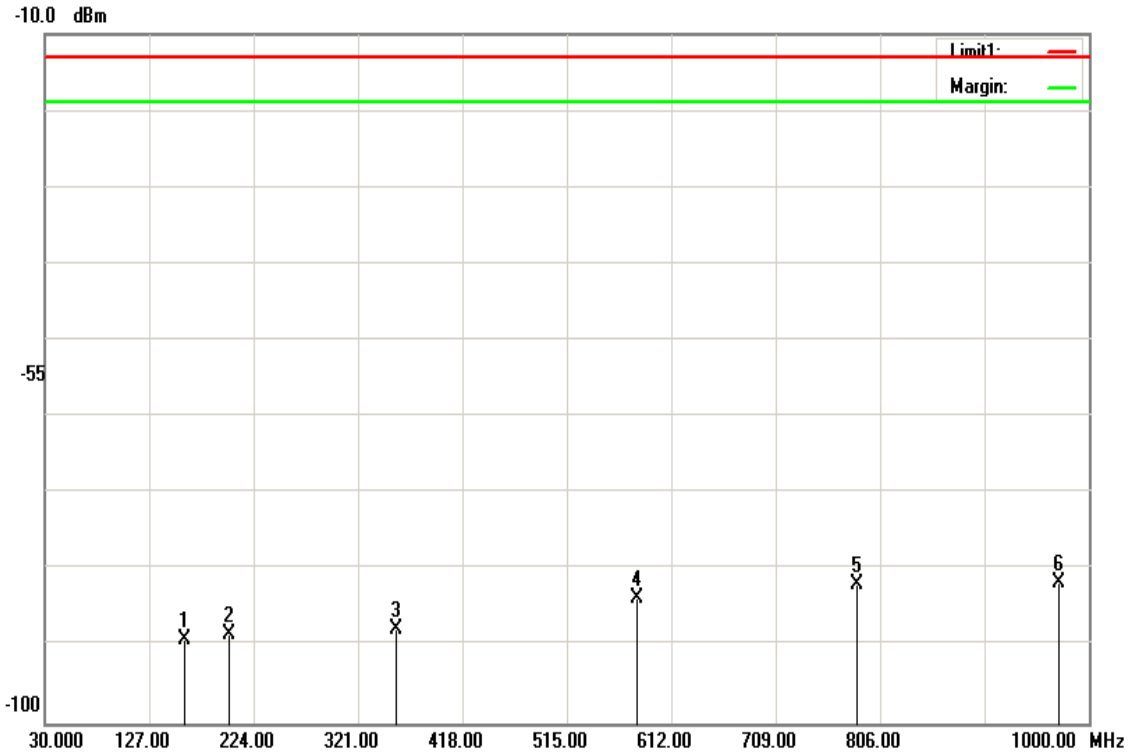
Operation Mode:	Tx / Mid CH	**Test Date:**	March 12, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
159.9800	-85.76	1.25	-89.16	-13.00	-76.16	H
201.2050	-84.89	1.4	-88.44	-13.00	-75.44	H
355.9200	-83.67	1.89	-87.71	-13.00	-74.71	H
580.4750	-79.21	2.43	-83.79	-13.00	-70.79	H
784.6600	-76.92	2.84	-81.91	-13.00	-68.91	H
971.8700	-76.39	3.18	-81.72	-13.00	-68.72	H

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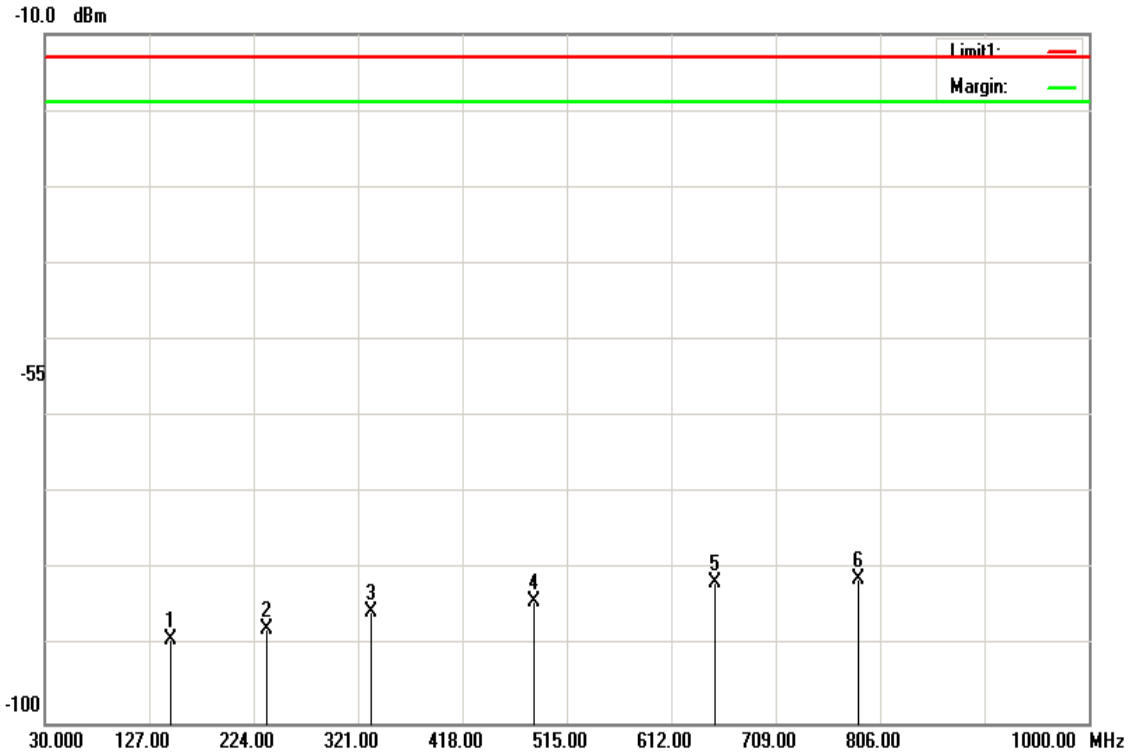
LTE Band 5 / BW: 10MHz / 16QAM / RB =1, RB Offset = 0

Operation Mode:	Tx / Mid CH	**Test Date:**	March 12, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
147.3700	-85.78	1.2	-89.13	-13.00	-76.13	V
237.0950	-83.98	1.52	-87.65	-13.00	-74.65	V
333.1250	-81.48	1.82	-85.45	-13.00	-72.45	V
485.4150	-79.82	2.21	-84.18	-13.00	-71.18	V
652.7400	-76.98	2.58	-81.71	-13.00	-68.71	V
785.6300	-76.17	2.84	-81.16	-13.00	-68.16	V

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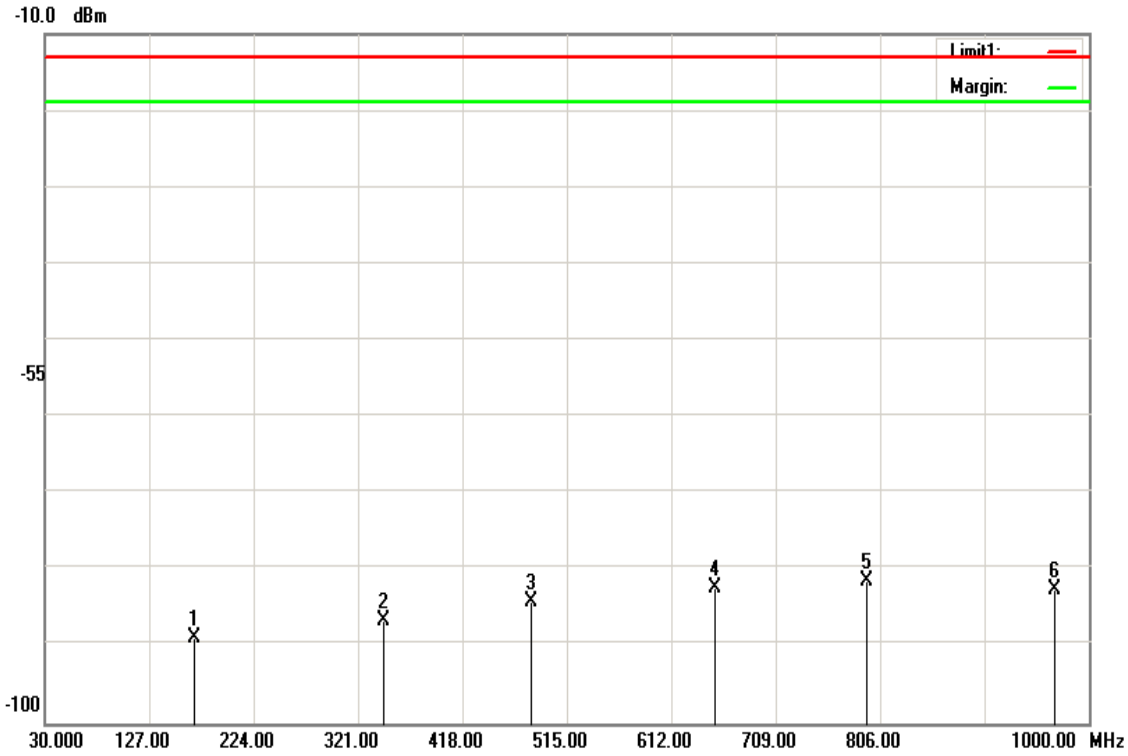
Operation Mode:	Tx / Mid CH I	**Test Date:**	March 12, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
168.7100	-85.51	1.28	-88.94	-13.00	-75.94	H
344.7650	-82.71	1.86	-86.72	-13.00	-73.72	H
482.5050	-79.83	2.21	-84.19	-13.00	-71.19	H
653.2250	-77.71	2.58	-82.44	-13.00	-69.44	H
793.3900	-76.41	2.86	-81.42	-13.00	-68.42	H
968.4750	-77.34	3.17	-82.66	-13.00	-69.66	H

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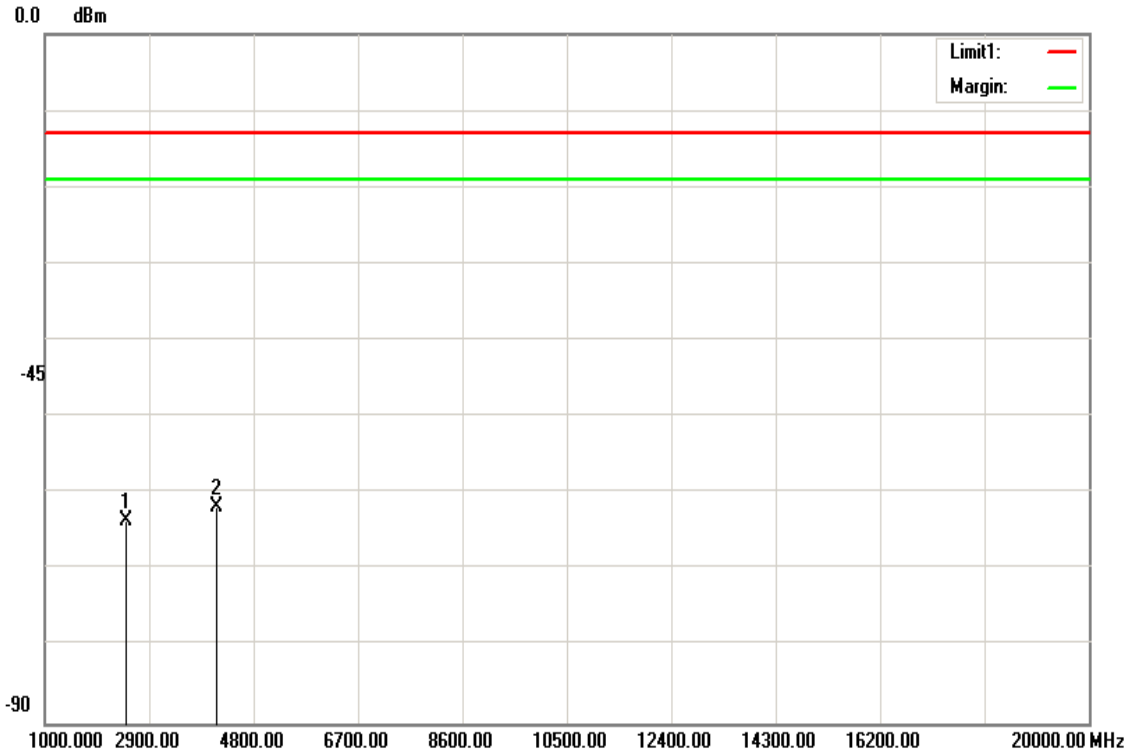
Above 1GHz

LTE Band 5 / BW: 10 MHz / QPSK / RB =1, RB Offset = 0

Operation Mode:	Tx / Low CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
2473.500	-58.18	5.3	-63.48	-13.00	-50.48	V
4122.000	-54.72	7.03	-61.75	-13.00	-48.75	V
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

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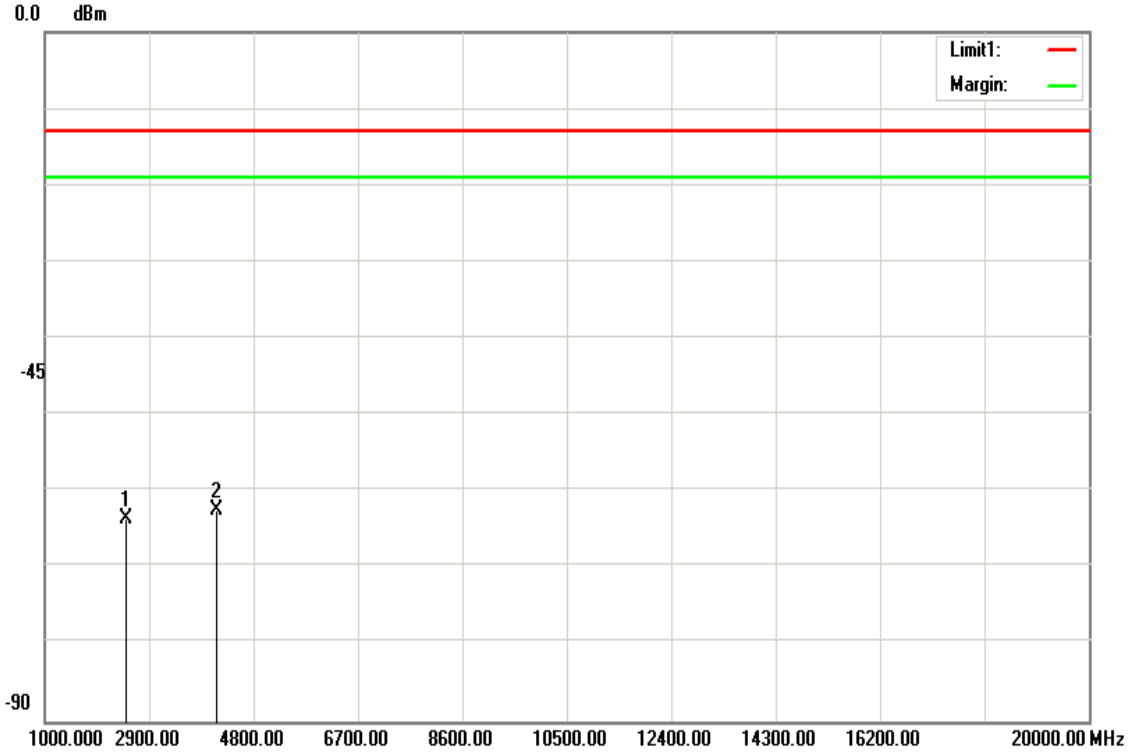
Operation Mode:	22°C	**Test Date:**	March 13, 2019
Temperature:	46% RH	**Tested by:**	Dally Hong
Humidity:	50% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
2473.500	-58.34	5.3	-63.64	-13.00	-50.64	H
4122.000	-55.41	7.03	-62.44	-13.00	-49.44	H
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

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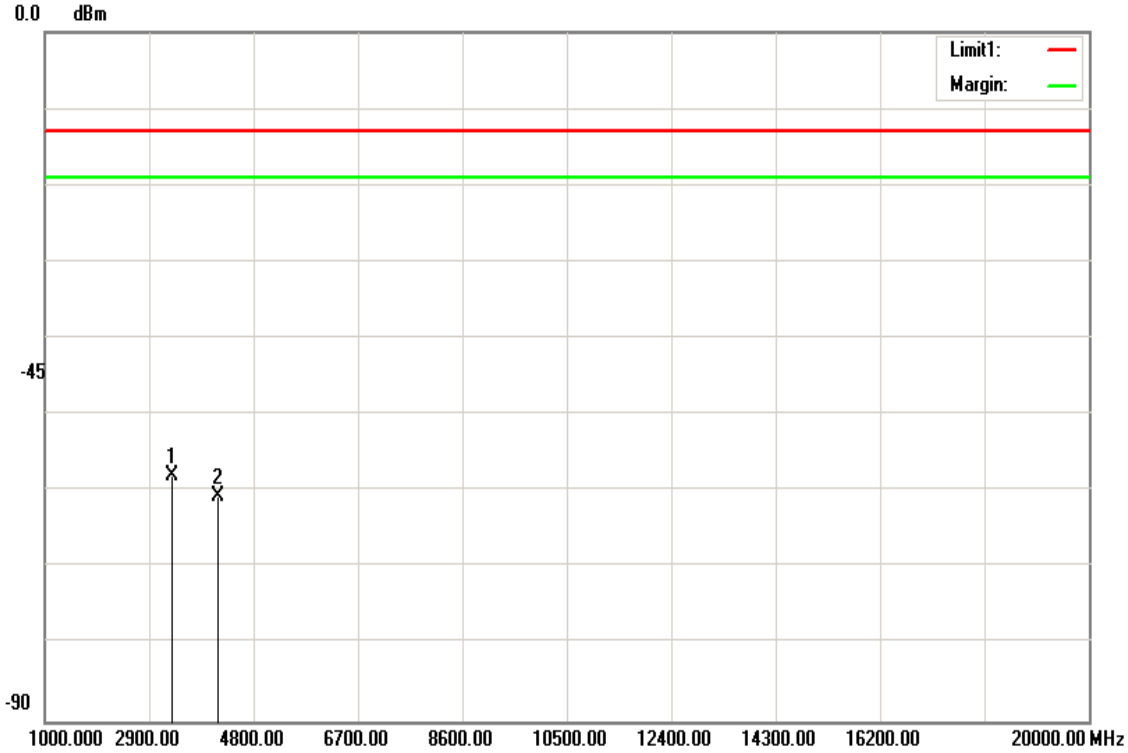
Operation Mode:	Tx / Mid CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3327.500	-51.7	6.25	-57.95	-13.00	-44.95	V
4160.500	-53.66	7.06	-60.72	-13.00	-47.72	V
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

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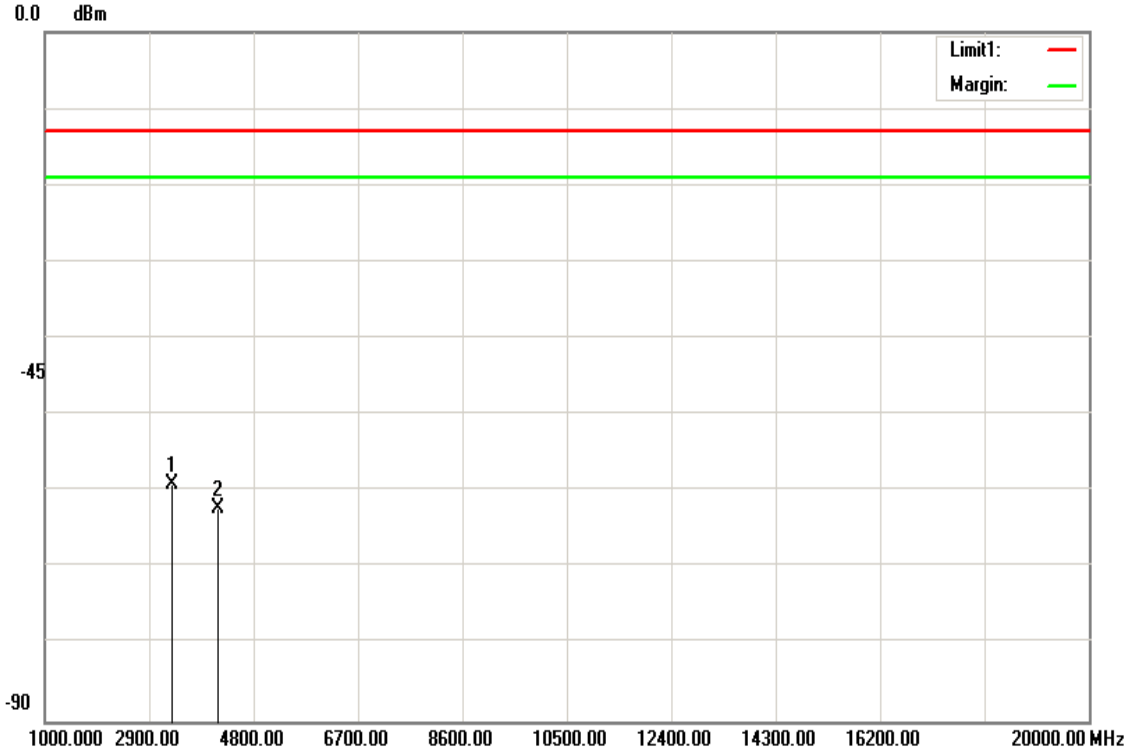
Operation Mode:	Tx / Mid CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3327.500	-52.78	6.25	-59.03	-13.00	-46.03	H
4160.500	-55.12	7.06	-62.18	-13.00	-49.18	H
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

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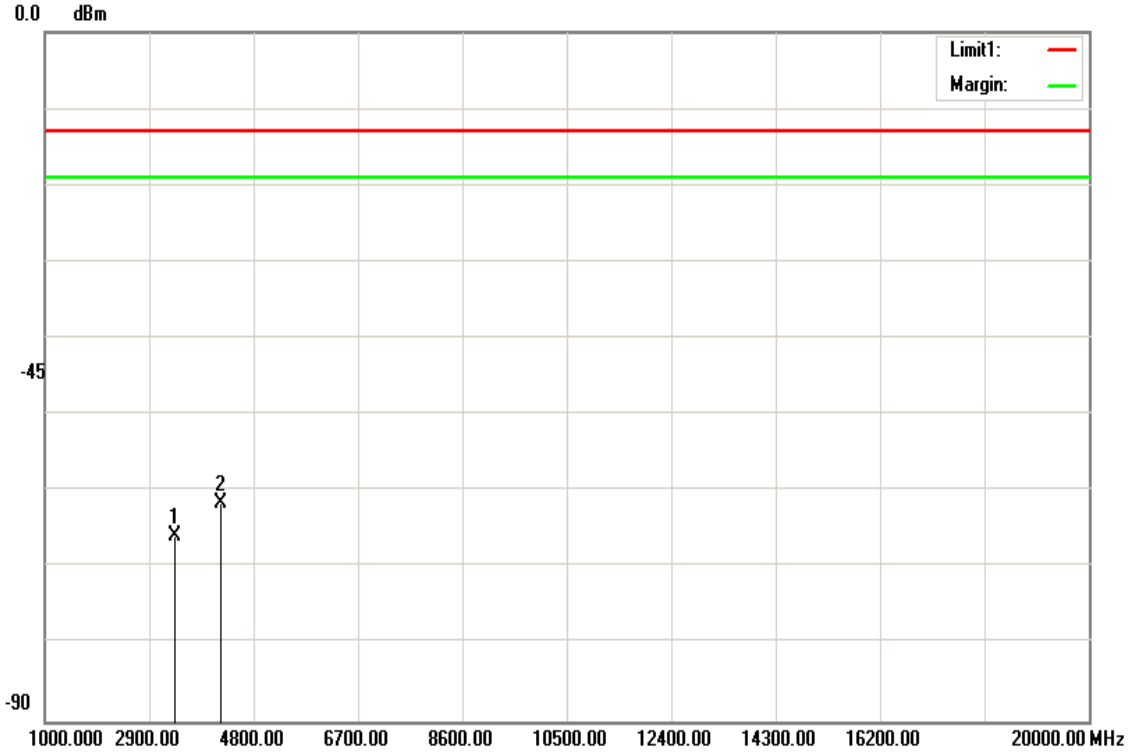
Operation Mode:	Tx / High CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3359.000	-59.45	6.28	-65.73	-13.00	-52.73	V
4199.000	-54.51	7.1	-61.61	-13.00	-48.61	V
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

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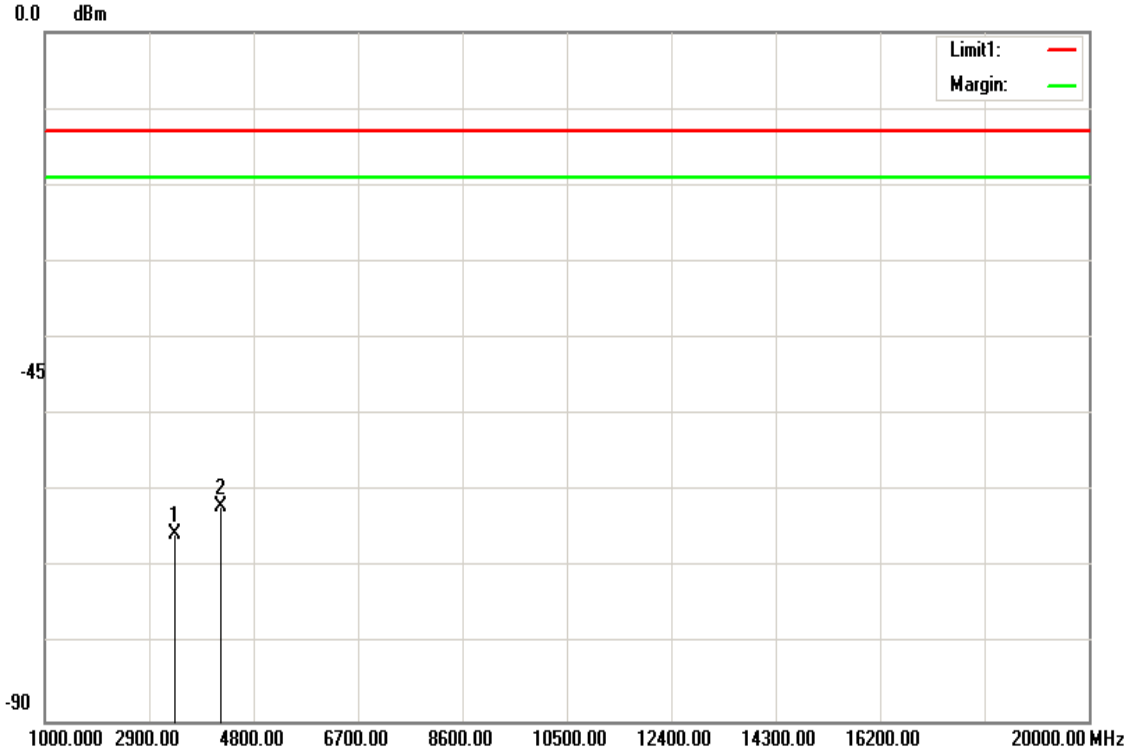
Operation Mode:	Tx / High CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3359.000	-59.32	6.28	-65.60	-13.00	-52.60	H
4199.000	-54.81	7.1	-61.91	-13.00	-48.91	H
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

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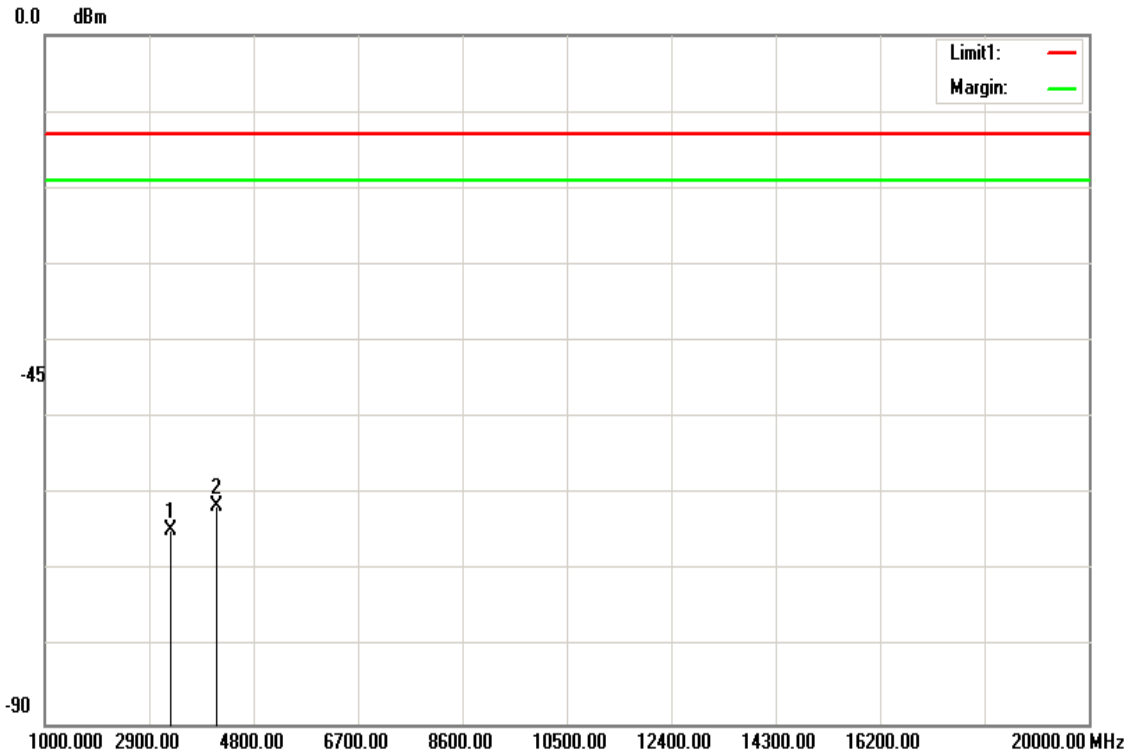
LTE Band 5 / BW: 10MHz / 16QAM / RB =1, RB Offset = 0

Operation Mode:	Tx / Low CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3299.500	-58.42	6.22	-64.64	-13.00	-51.64	V
4122.000	-54.47	7.03	-61.50	-13.00	-48.50	V
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

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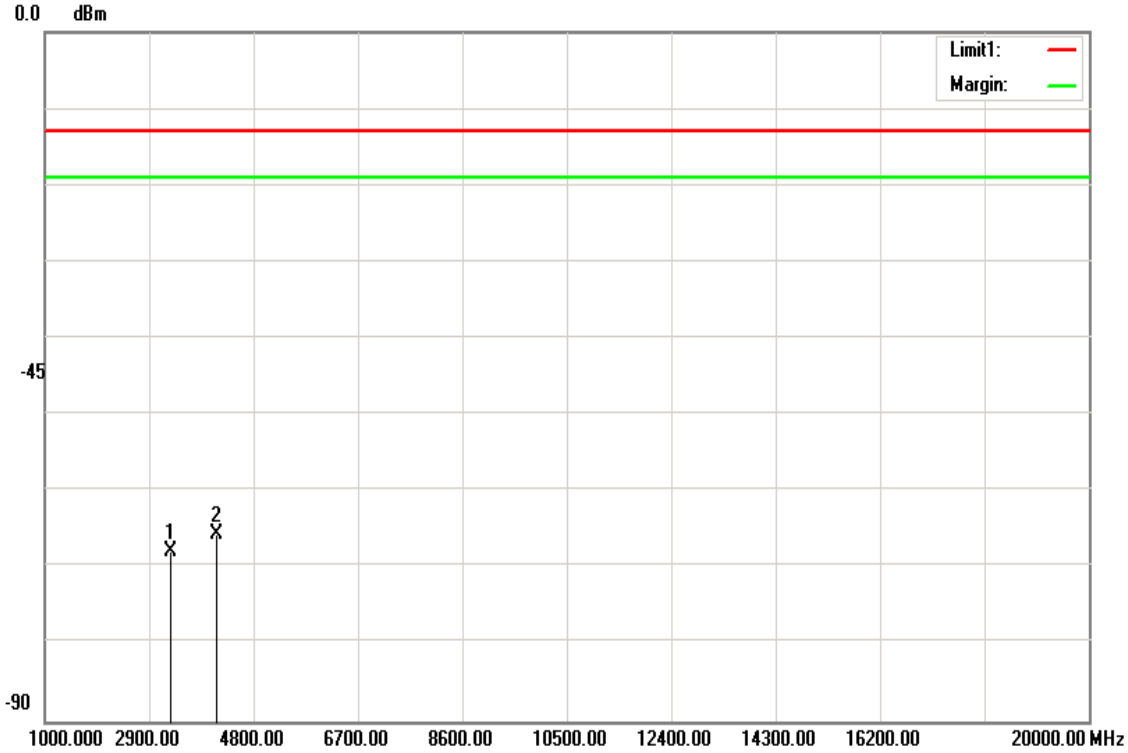
Operation Mode:	Tx / Low CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3299.500	-61.55	6.22	-67.77	-13.00	-54.77	H
4122.000	-58.63	7.03	-65.66	-13.00	-52.66	H
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

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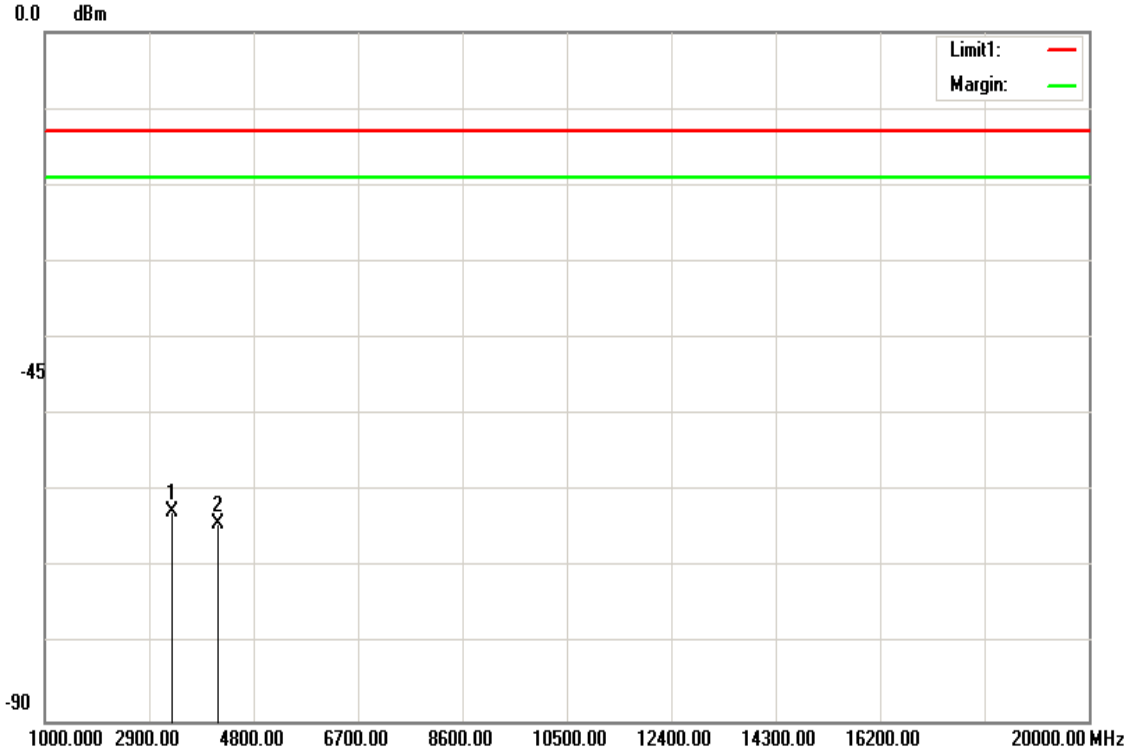
Operation Mode:	Tx / Mid CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3327.500	-56.45	6.25	-62.70	-13.00	-49.70	V
4160.500	-57.11	7.06	-64.17	-13.00	-51.17	V
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

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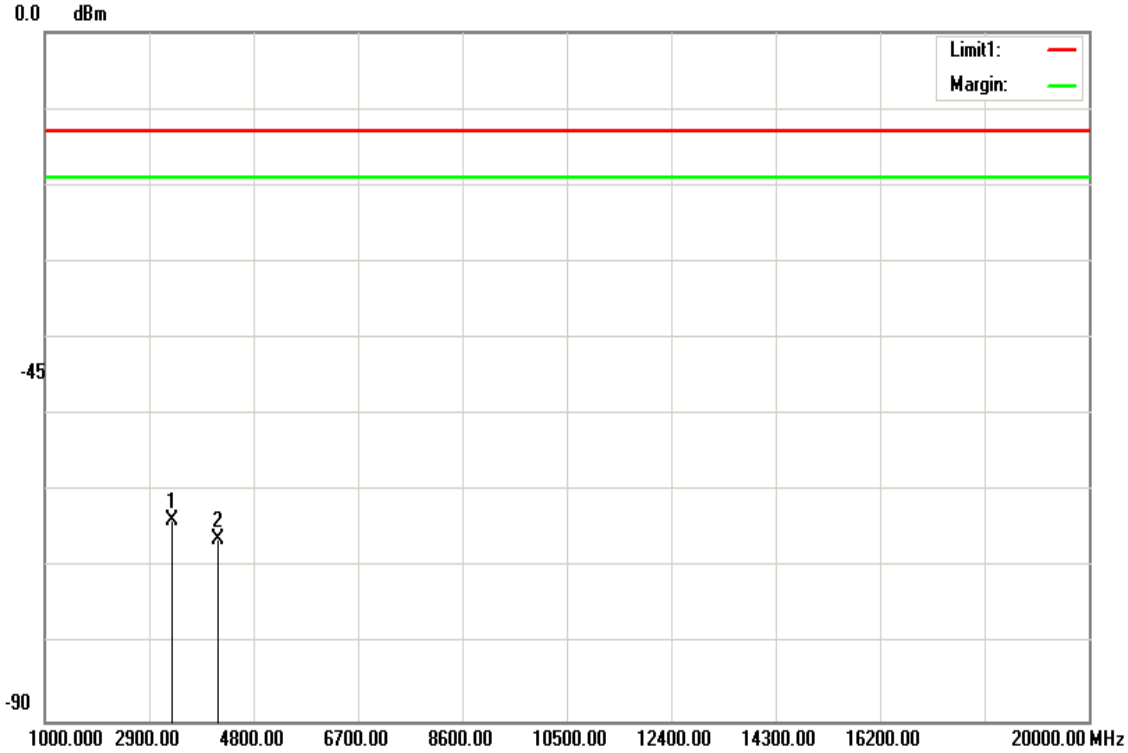
Operation Mode:	Tx / Mid CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3327.500	-57.48	6.25	-63.73	-13.00	-50.73	H
4160.500	-59.21	7.06	-66.27	-13.00	-53.27	H
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

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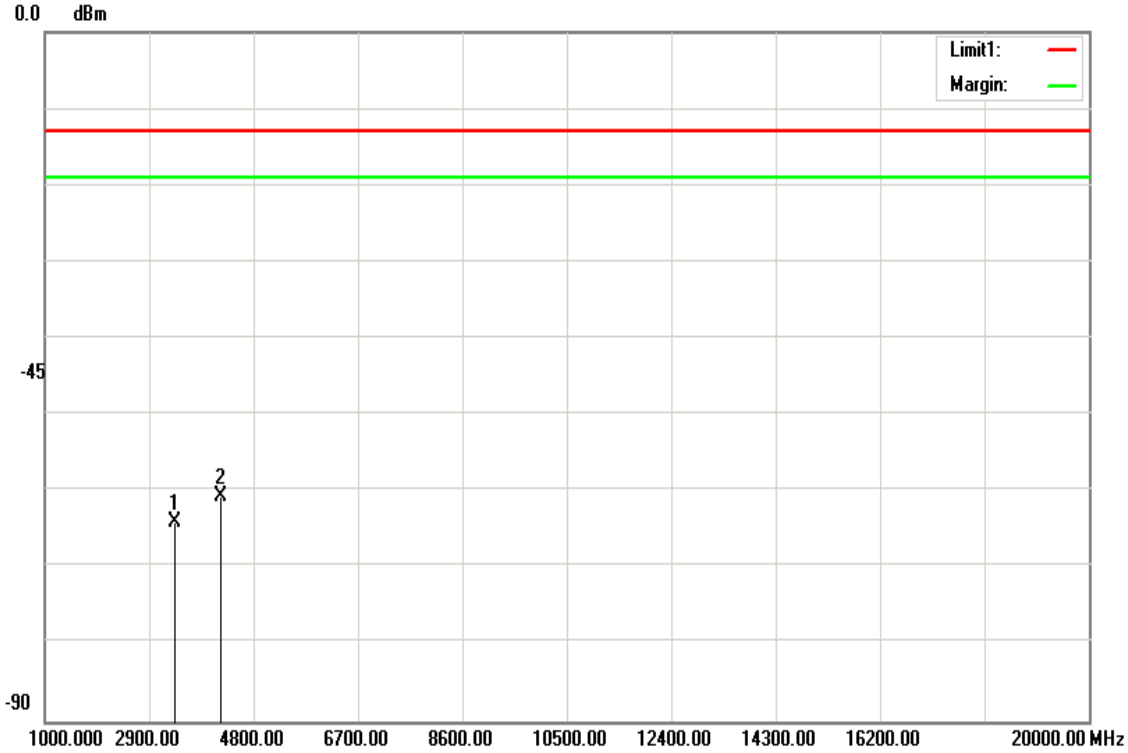
Operation Mode:	Tx / High CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3359.000	-57.81	6.28	-64.09	-13.00	-51.09	V
4199.000	-53.48	7.1	-60.58	-13.00	-47.58	V
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

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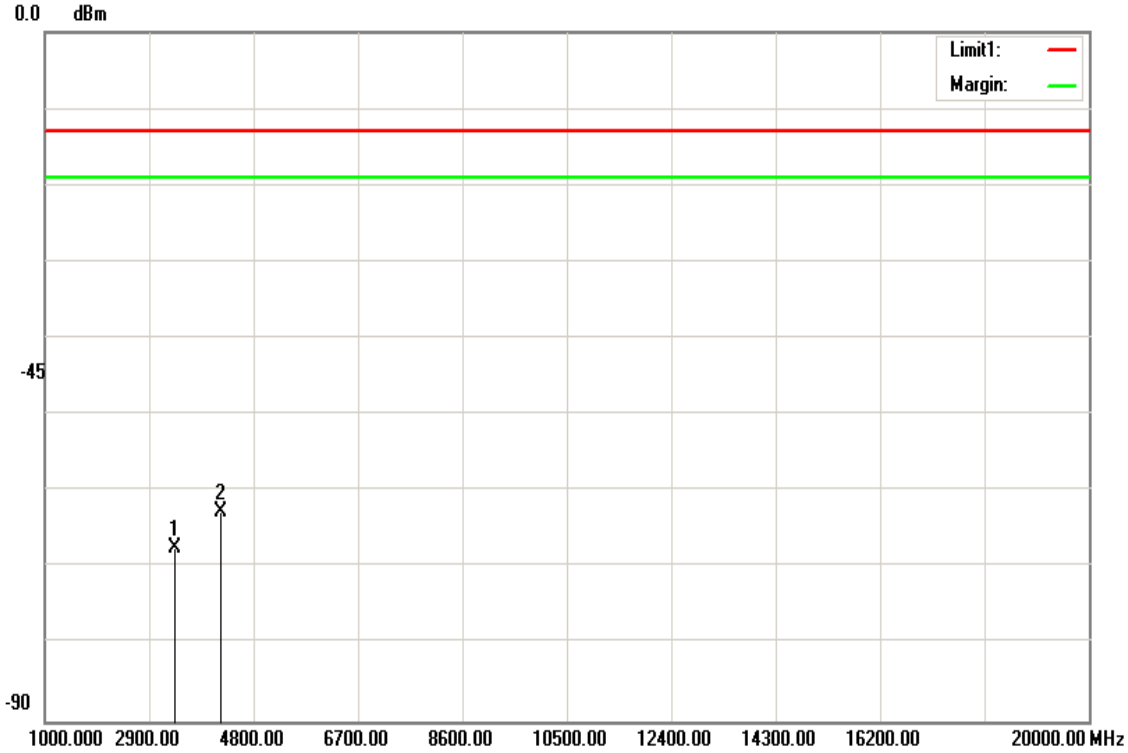
Operation Mode:	Tx / High CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3359.000	-61.16	6.28	-67.44	-13.00	-54.44	H
4199.000	-55.49	7.1	-62.59	-13.00	-49.59	H
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

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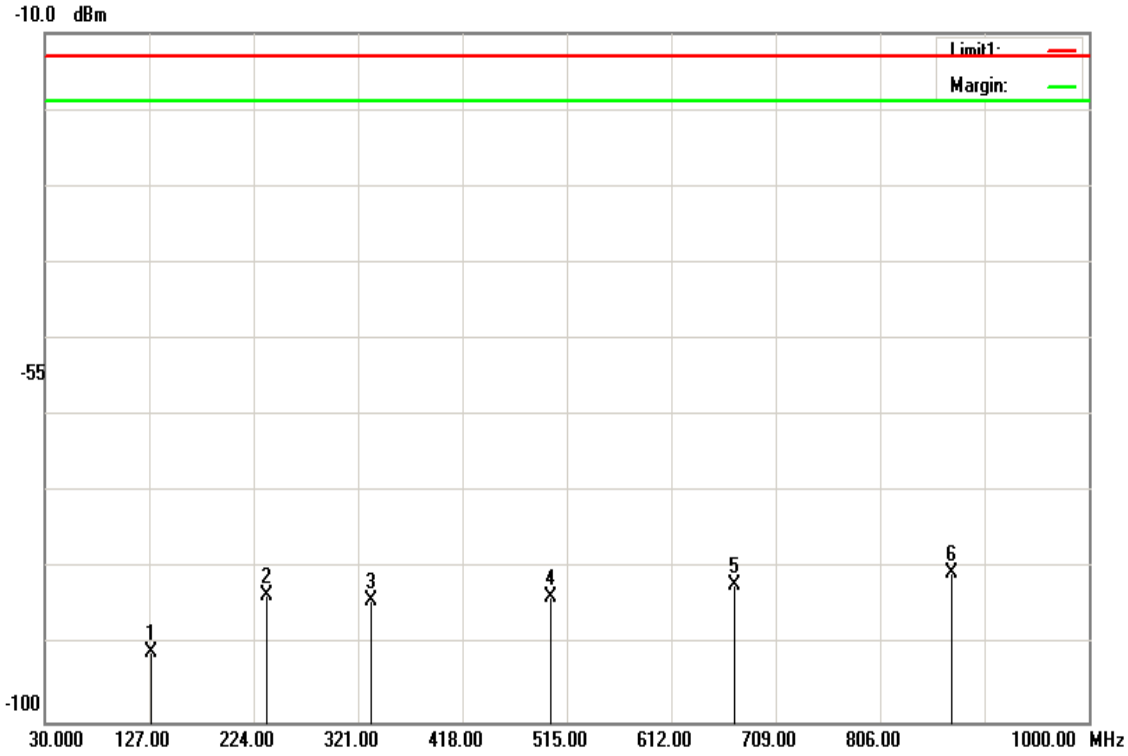
Test Results

Below 1GHz

LTE Band 2 / BW: 20MHz / QPSK / RB =1, RB Offset = 0

Operation Mode:	Tx / Mid CH	**Test Date:**	March 11, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
128.9400	-87.54	1.13	-90.82	-13.00	-77.82	V
237.0950	-79.69	1.52	-83.36	-13.00	-70.36	V
333.1250	-80.08	1.82	-84.05	-13.00	-71.05	V
499.9650	-79.2	2.25	-83.60	-13.00	-70.60	V
671.6550	-77.45	2.62	-82.22	-13.00	-69.22	V
873.4150	-75.28	3.01	-80.44	-13.00	-67.44	V

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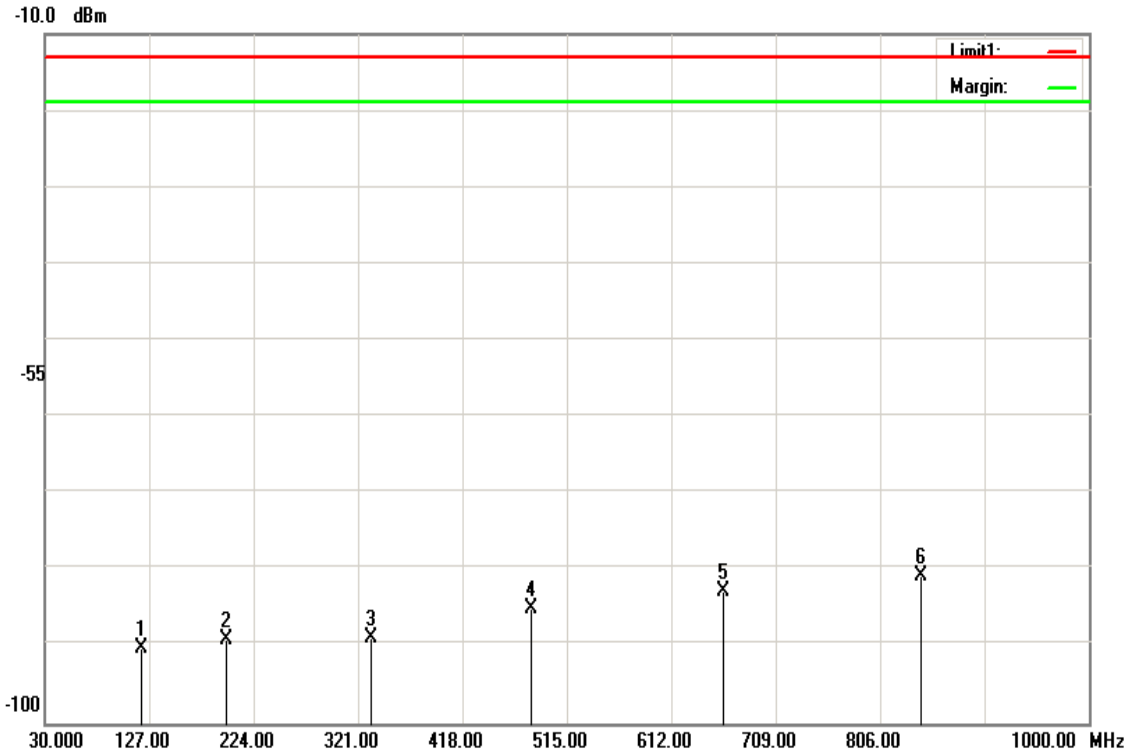
Operation Mode:	Tx / Mid CH	**Test Date:**	March 11, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
120.6950	-87.05	1.09	-90.29	-13.00	-77.29	H
198.7800	-85.48	1.4	-89.03	-13.00	-76.03	H
333.1250	-84.92	1.82	-88.89	-13.00	-75.89	H
482.0200	-80.59	2.21	-84.95	-13.00	-71.95	H
660.9850	-77.99	2.59	-82.73	-13.00	-69.73	H
843.8300	-75.64	2.96	-80.75	-13.00	-67.75	H

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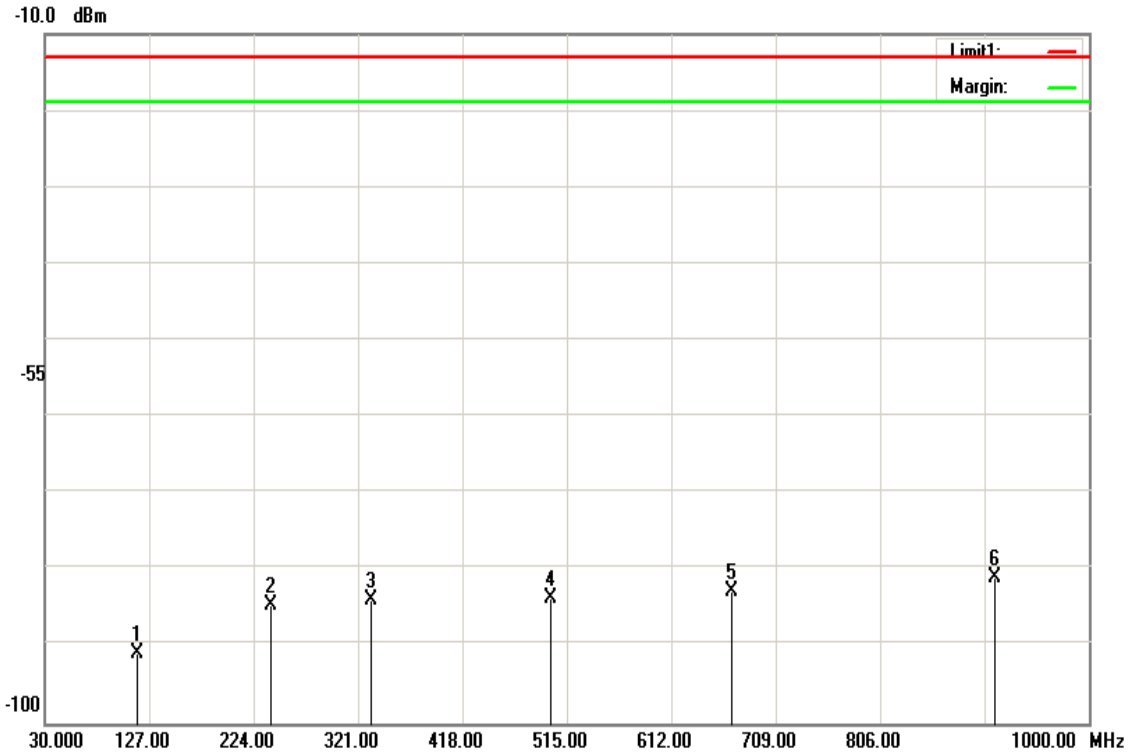
LTE Band 2 / BW: 20MHz / 16QAM / RB =1, RB Offset = 0

Operation Mode:	Tx / Mid CH	**Test Date:**	March 11, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
115.8450	-87.65	1.07	-90.87	-13.00	-77.87	V
239.5200	-80.84	1.53	-84.52	-13.00	-71.52	V
333.1250	-79.96	1.82	-83.93	-13.00	-70.93	V
499.9650	-79.27	2.25	-83.67	-13.00	-70.67	V
668.2600	-77.93	2.61	-82.69	-13.00	-69.69	V
912.7000	-75.7	3.08	-80.93	-13.00	-67.93	V

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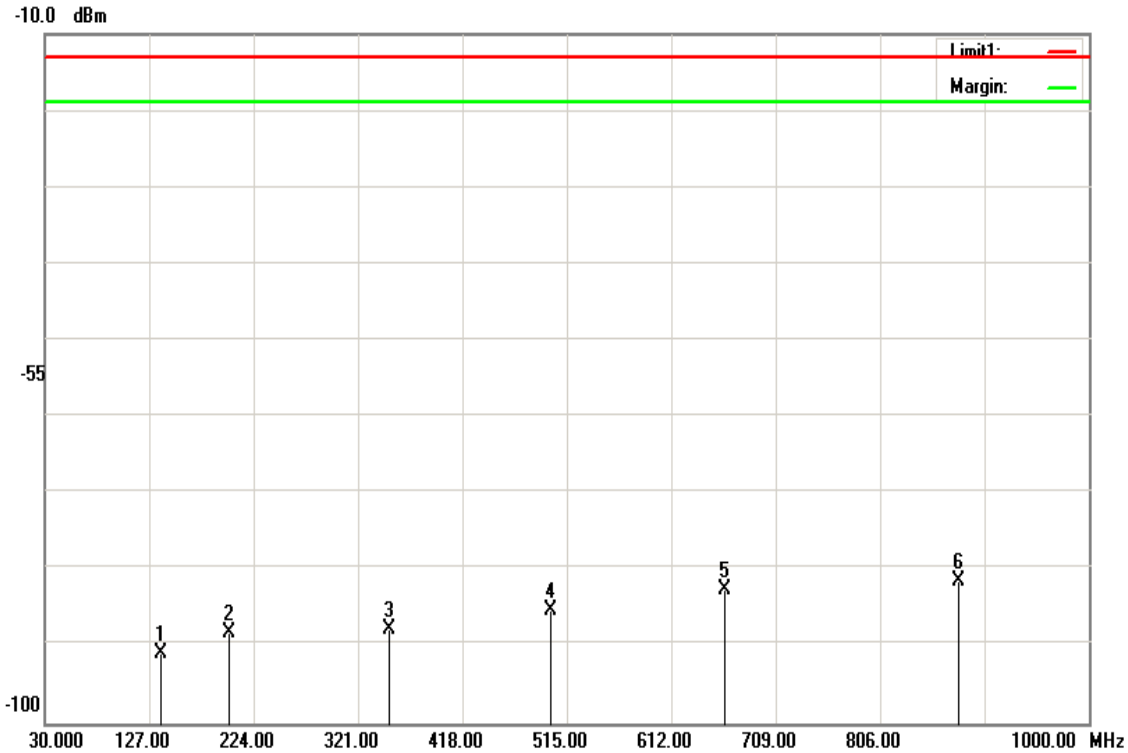
Operation Mode:	Tx / Mid CH	**Test Date:**	March 11, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
138.1550	-87.62	1.16	-90.93	-13.00	-77.93	H
201.2050	-84.54	1.4	-88.09	-13.00	-75.09	H
350.1000	-83.71	1.87	-87.73	-13.00	-74.73	H
499.9650	-80.75	2.25	-85.15	-13.00	-72.15	H
661.4700	-77.76	2.6	-82.51	-13.00	-69.51	H
878.7500	-76.34	3.02	-81.51	-13.00	-68.51	H

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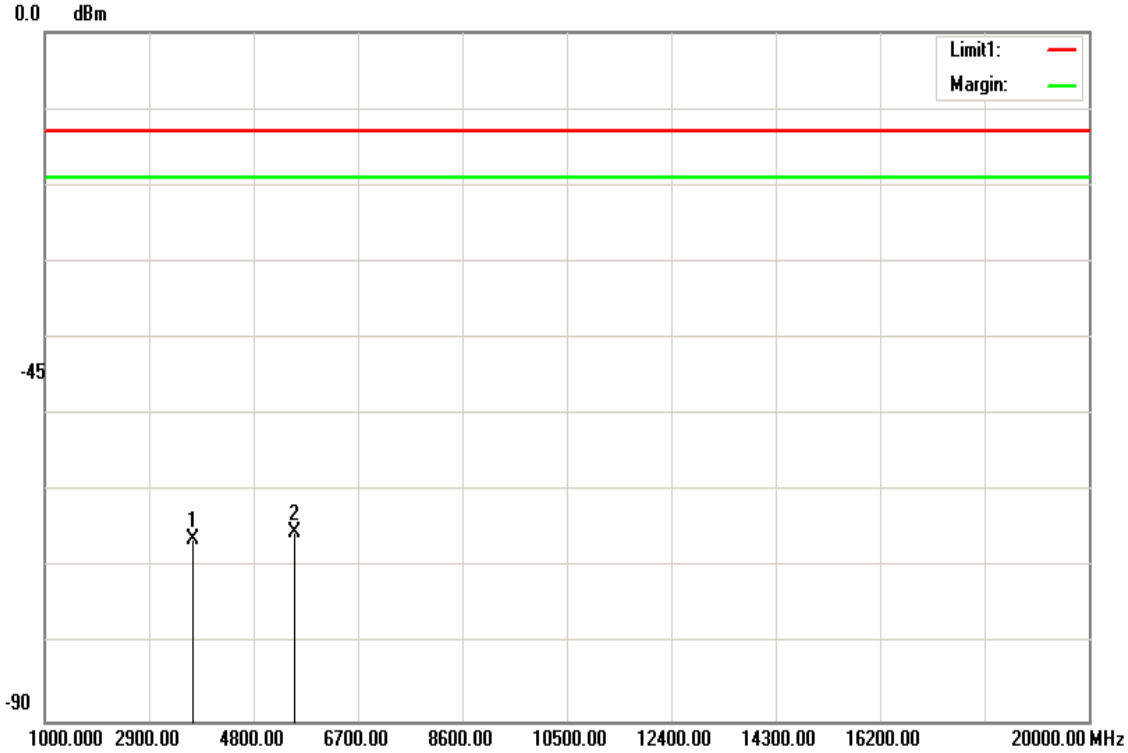
Above 1GHz

LTE Band 2 / BW: 20MHz / QPSK RB =1, RB Offset = 0

Operation Mode:	Tx / Low CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-59.52	6.63	-66.15	-13.00	-53.15	V
5553.500	-57.18	8.29	-65.47	-13.00	-52.47	V
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

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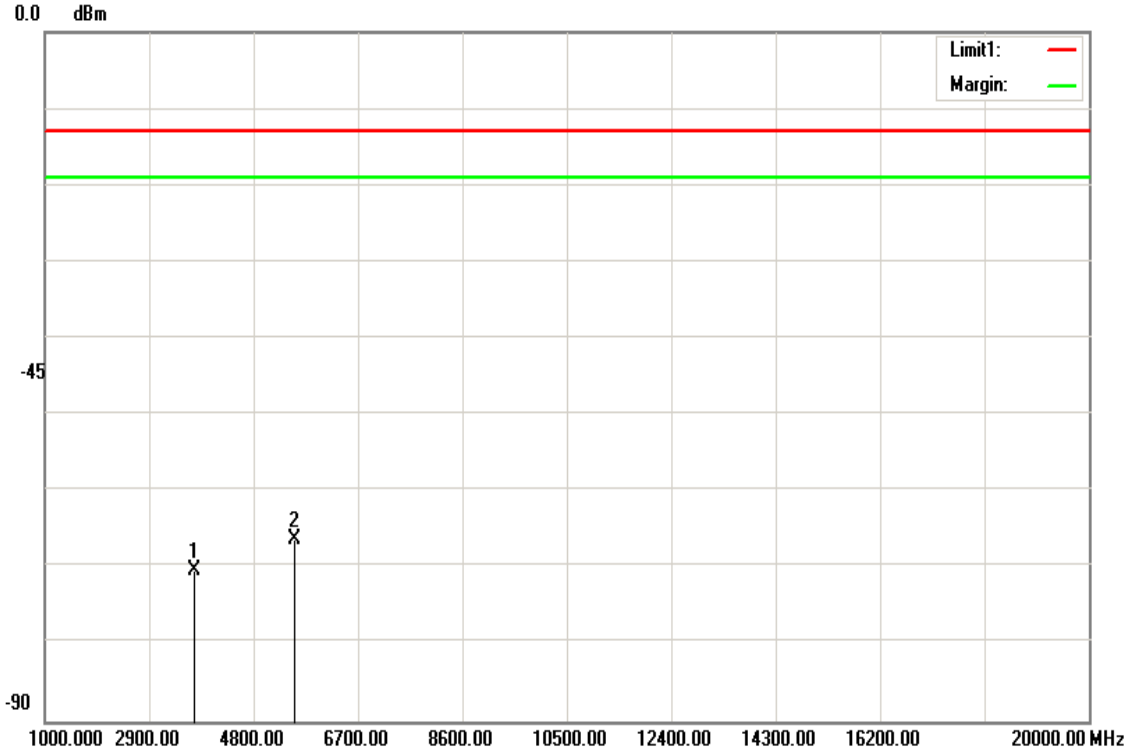
Operation Mode:	Tx / Low CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3720.000	-63.68	6.65	-70.33	-13.00	-57.33	H
5553.500	-58.07	8.29	-66.36	-13.00	-53.36	H
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

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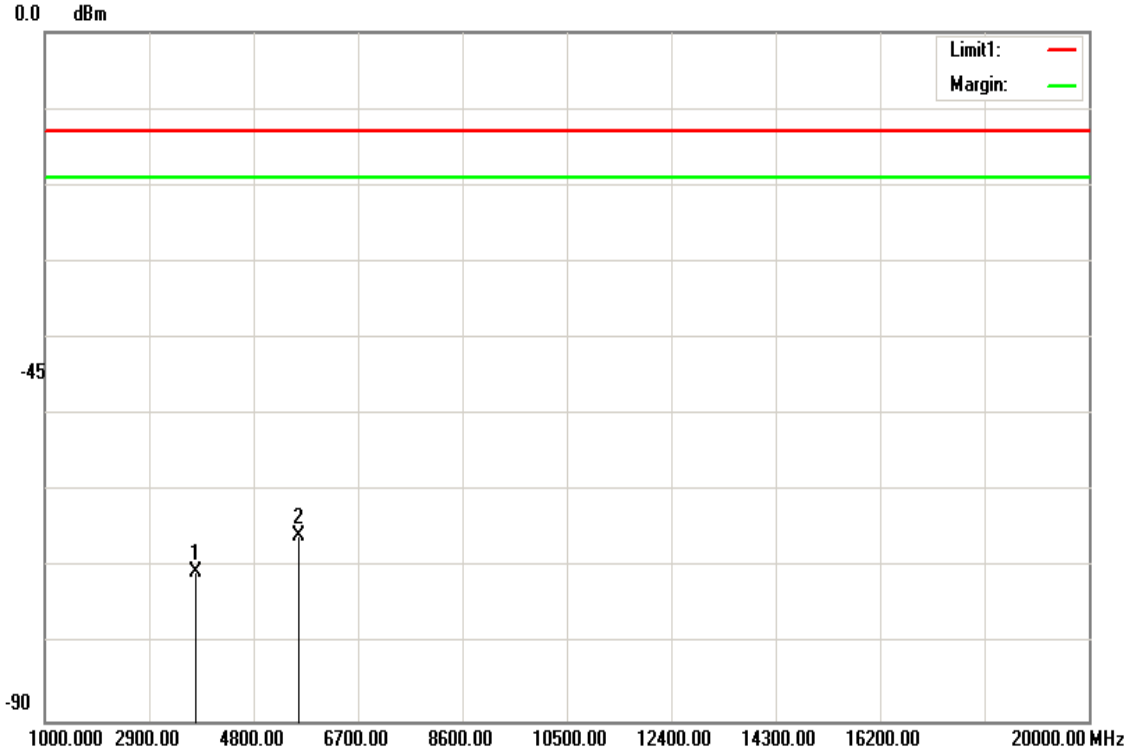
Operation Mode:	Tx / Mid CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3760.000	-63.87	6.68	-70.55	-13.00	-57.55	V
5613.000	-57.38	8.34	-65.72	-13.00	-52.72	V
N/A						

Remark:

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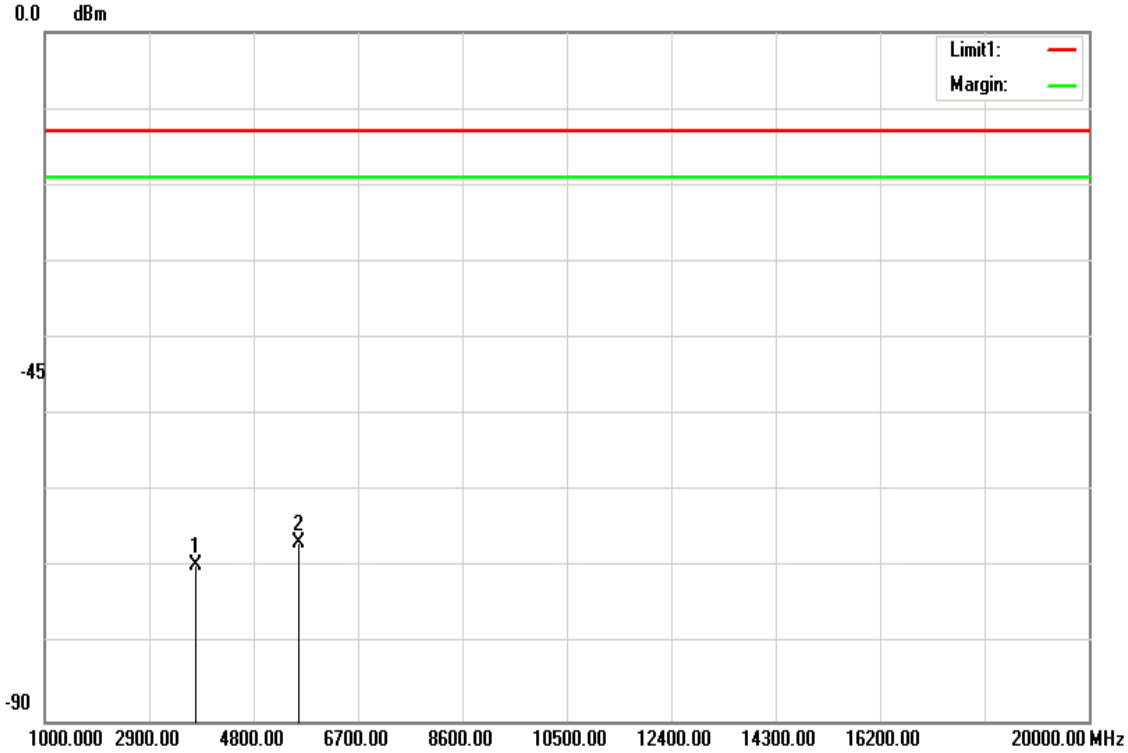
Operation Mode:	Tx / Mid CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3760.000	-63.01	6.68	-69.69	-13.00	-56.69	H
5613.000	-58.46	8.34	-66.80	-13.00	-53.80	H
N/A						

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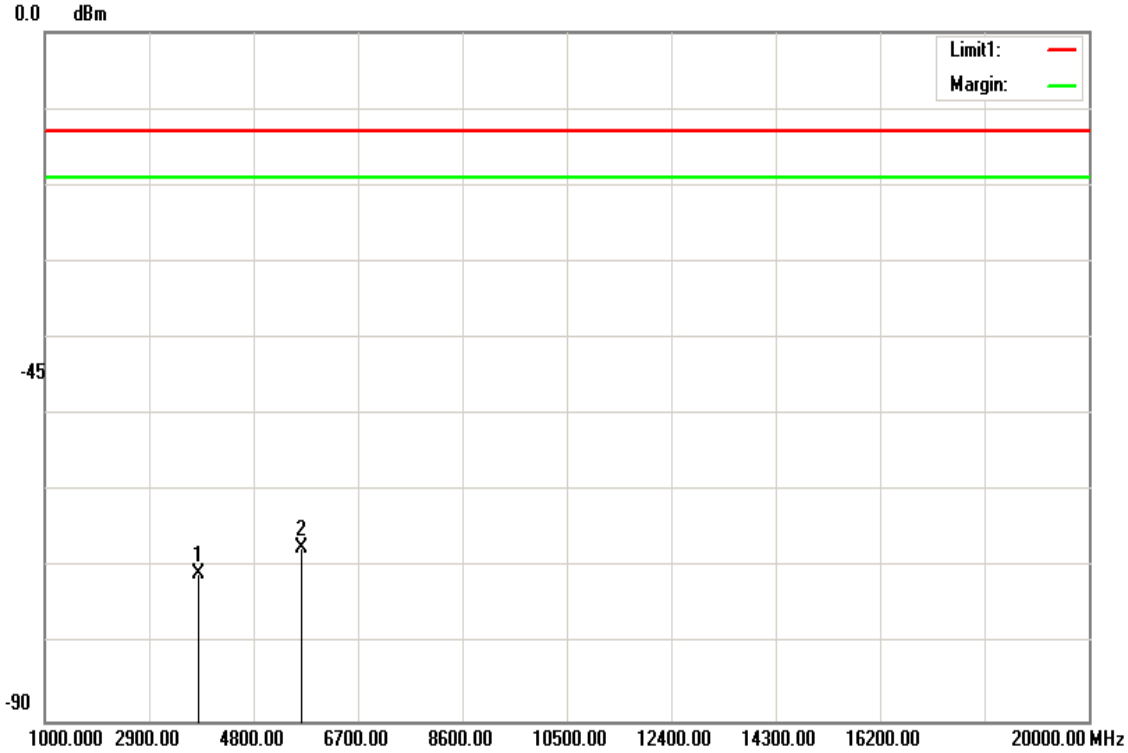
Operation Mode:	Tx / High CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3800.000	-63.96	6.72	-70.68	-13.00	-57.68	V
5672.500	-58.91	8.4	-67.31	-13.00	-54.31	V
N/A						

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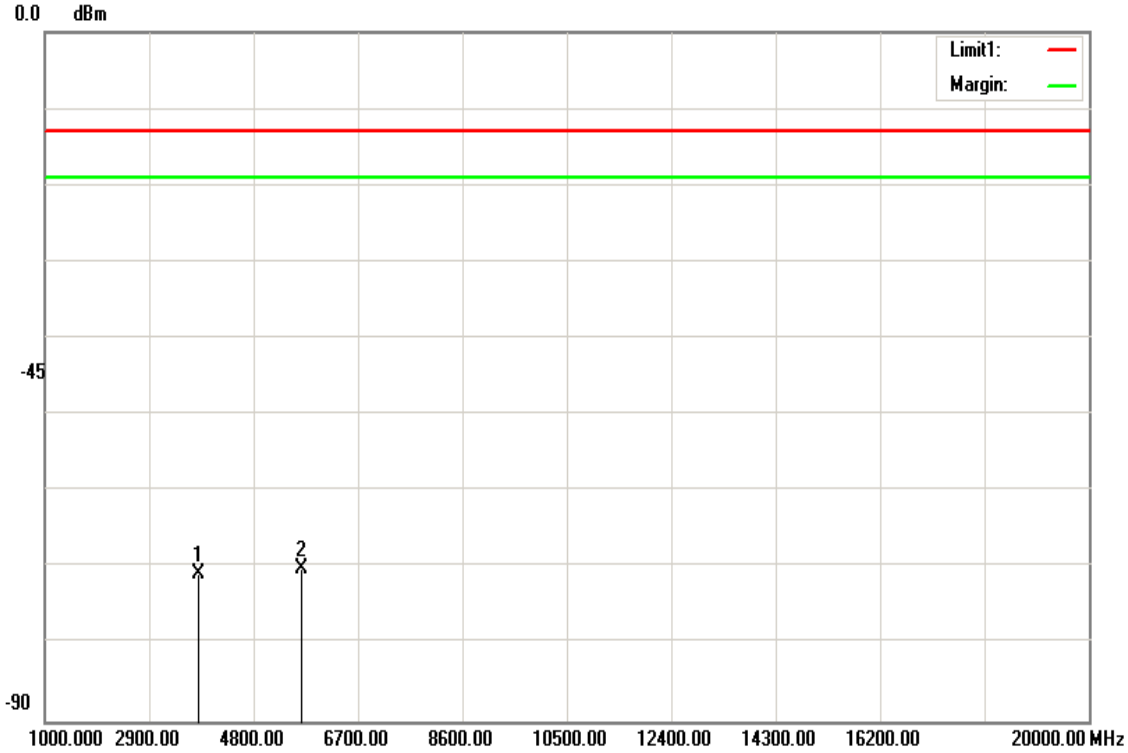
Operation Mode:	Tx / High CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3800.000	-63.93	6.72	-70.65	-13.00	-57.65	H
5672.500	-61.58	8.4	-69.98	-13.00	-56.98	H
N/A						

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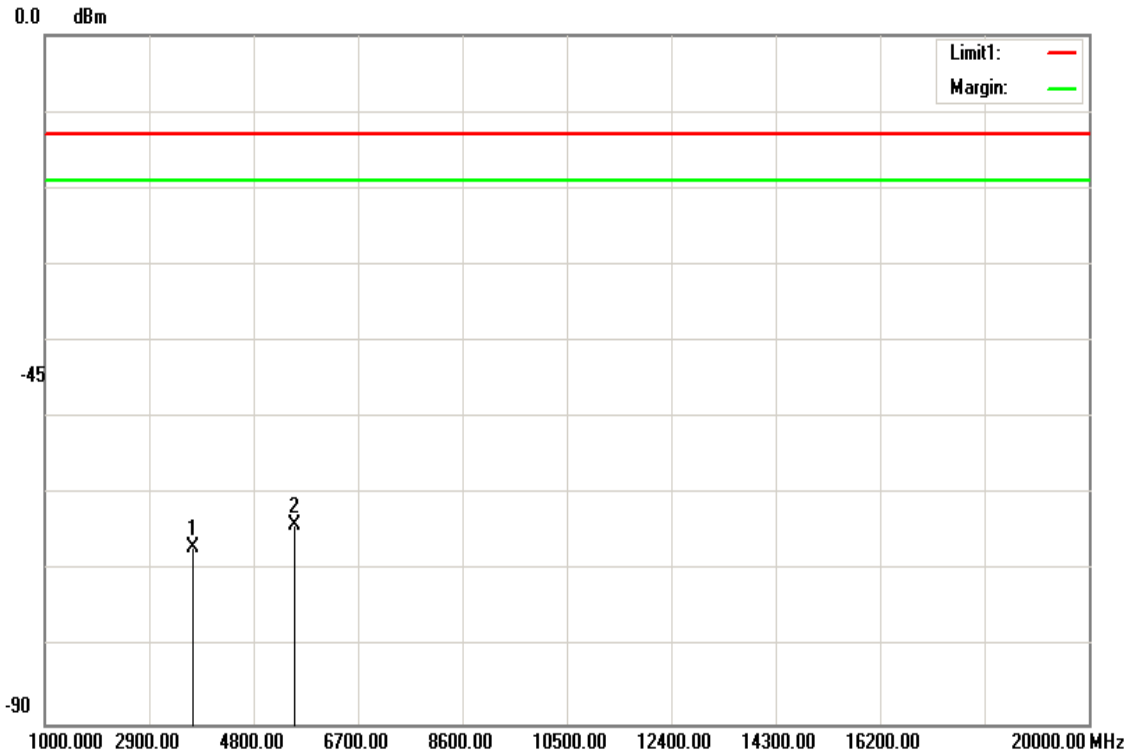
LTE Band 2 / BW: 20MHz / 16QAM / RB =1, RB Offset = 0

Operation Mode:	Tx / Low CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-60.23	6.63	-66.86	-13.00	-53.86	V
5553.500	-55.76	8.29	-64.05	-13.00	-51.05	V
N/A						

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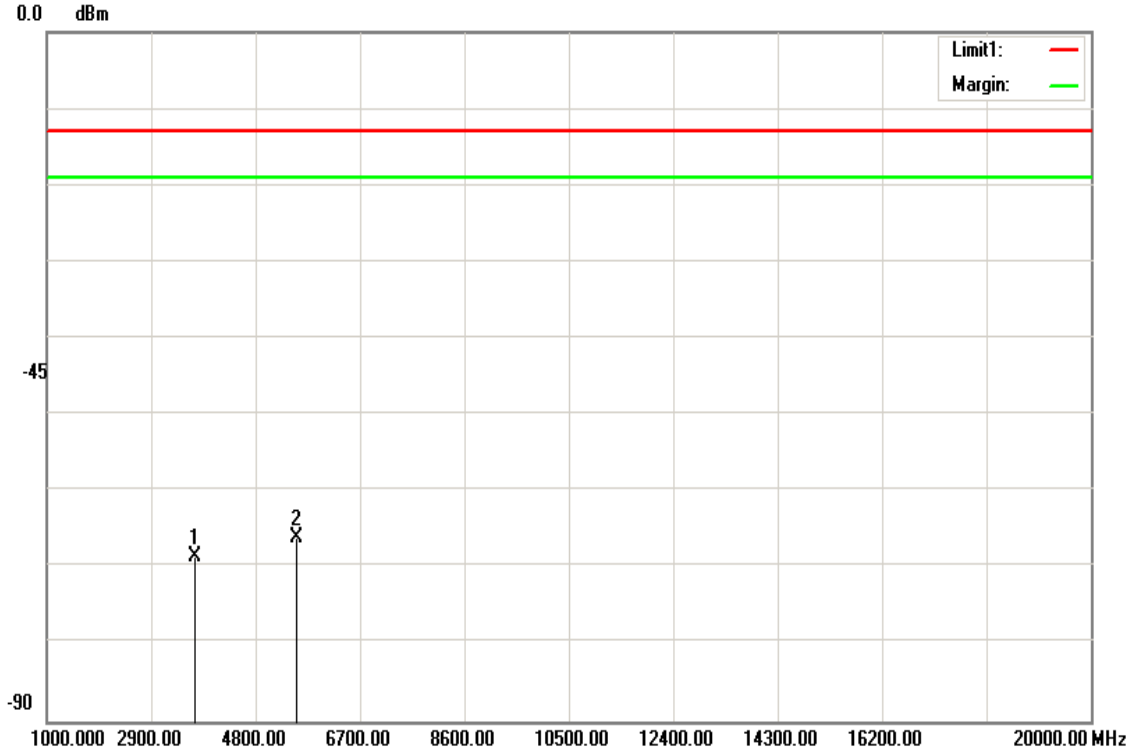
Operation Mode:	Tx / Low CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-61.92	6.63	-68.55	-13.00	-55.55	H
5553.500	-57.68	8.29	-65.97	-13.00	-52.97	H
N/A						

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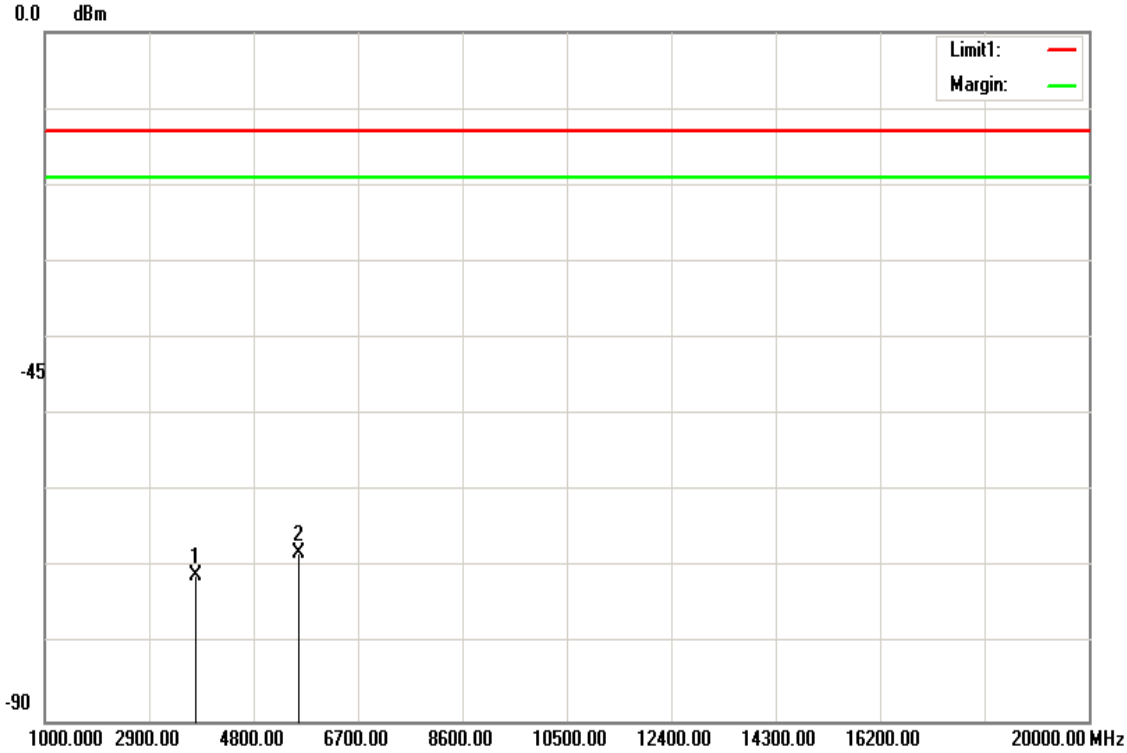
Operation Mode:	Tx / Mid CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3760.000	-64.27	6.68	-70.95	-13.00	-57.95	V
5613.000	-59.77	8.34	-68.11	-13.00	-55.11	V
N/A						

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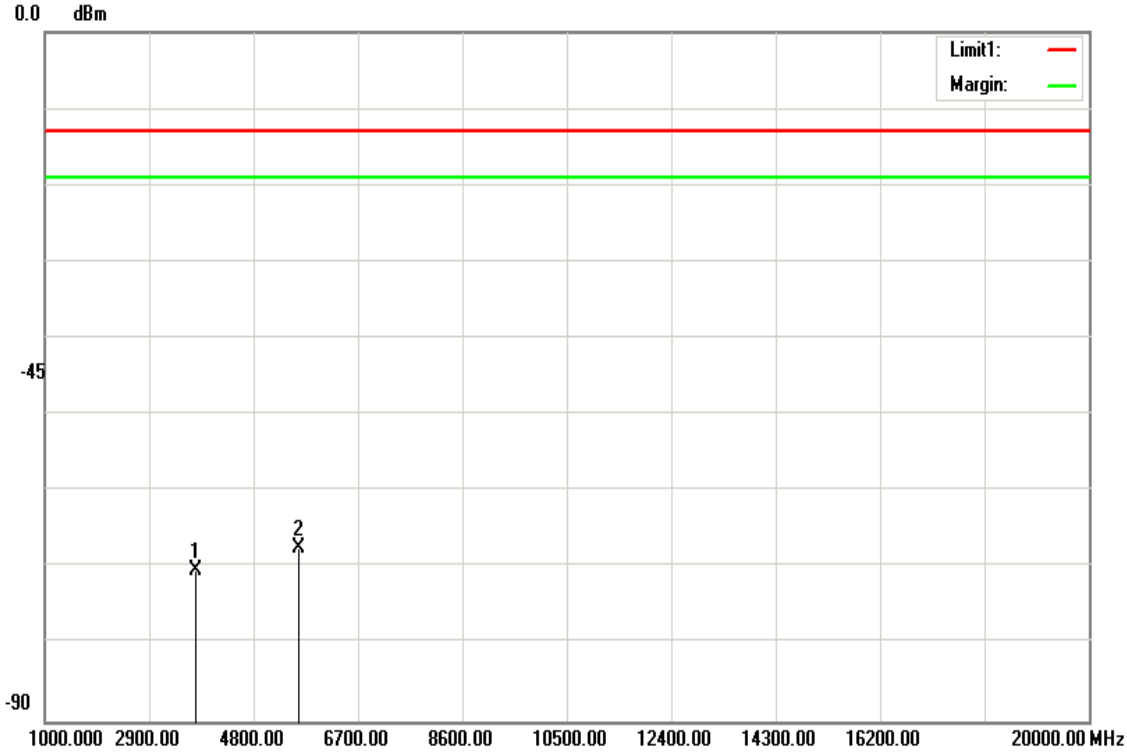
Operation Mode:	Tx / Mid CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3760.000	-63.62	6.68	-70.30	-13.00	-57.30	H
5613.000	-59	8.34	-67.34	-13.00	-54.34	H
N/A						

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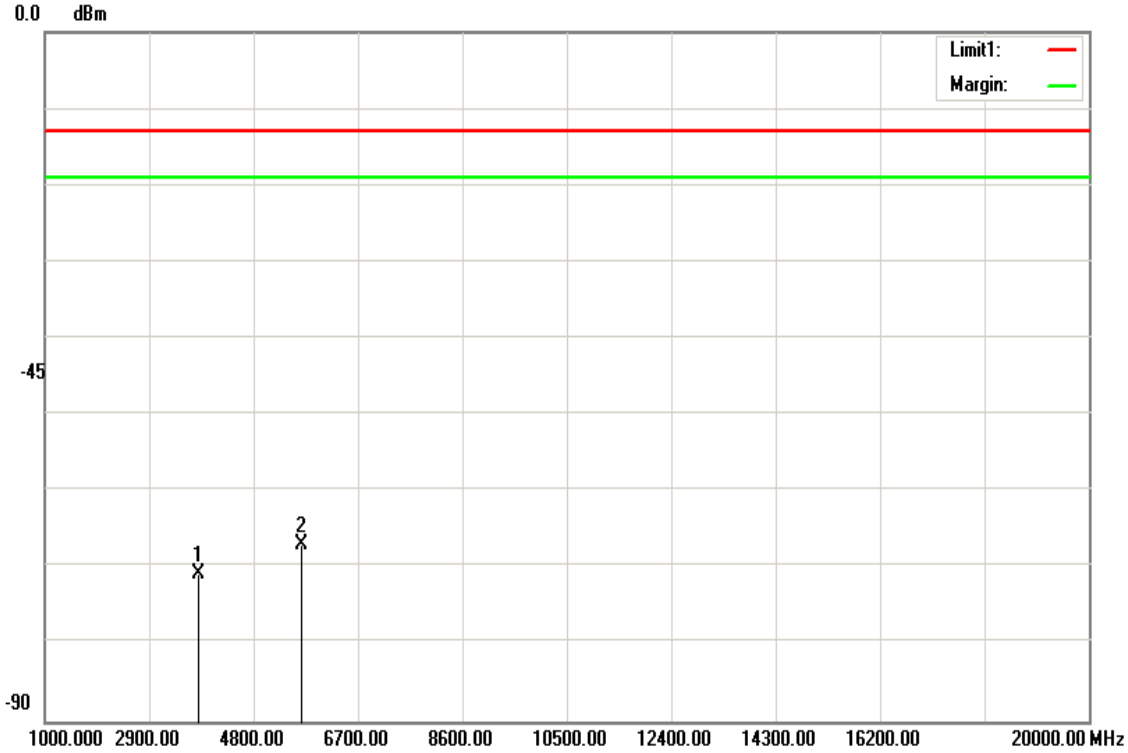
Operation Mode:	Tx / High CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3800.000	-63.96	6.72	-70.68	-13.00	-57.68	V
5672.500	-58.52	8.4	-66.92	-13.00	-53.92	V
N/A						

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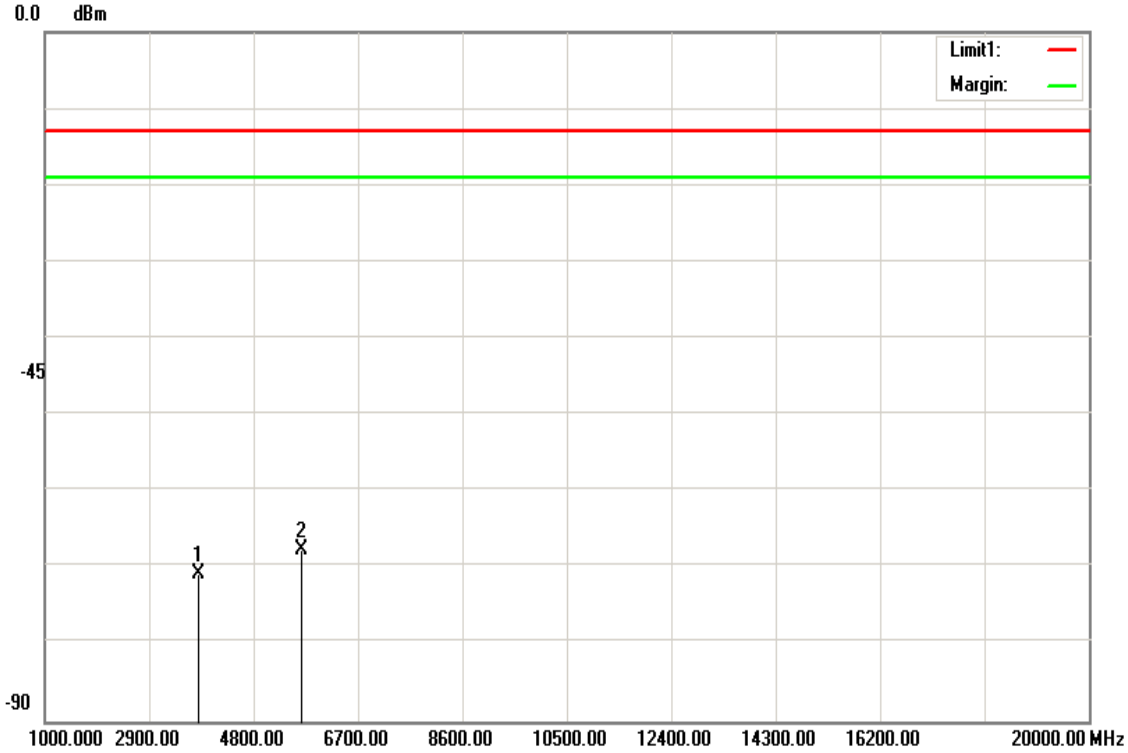
Operation Mode:	Tx / High CH	**Test Date:**	March 13, 2019
Temperature:	22°C	**Tested by:**	Dally Hong
Humidity:	46% RH	**Polarity:**	Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3800.000	-64.1	6.72	-70.82	-13.00	-57.82	H
5672.500	-59.17	8.4	-67.57	-13.00	-54.57	H
N/A						

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--End of Report--

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