

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 $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

Test Procedures

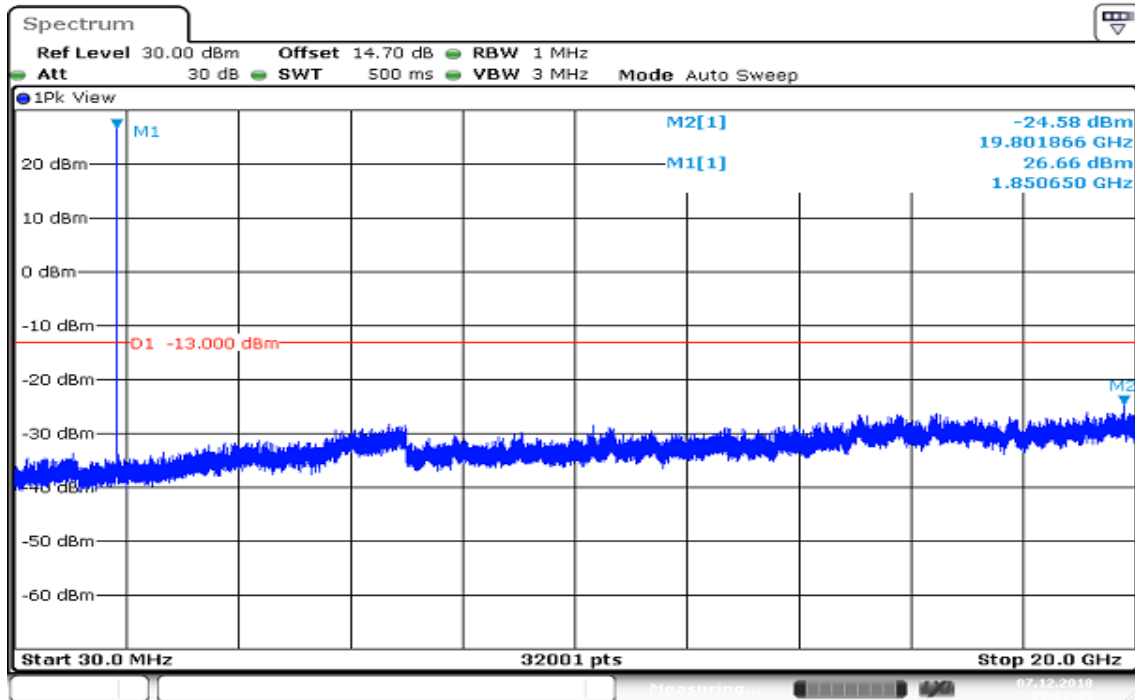
1. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range.).
2. The conducted spurious emission used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
3. When the spectrum scanned from 30MHz to 3GHz, it shall be connected to the band reject filter attenuated the carried frequency. The spectrum set $RB=1\text{MHz}$, $VB=3\text{MHz}$.
4. When the spectrum scanned from 3GHz to 20GHz, it shall be connected to the high pass filter attenuated the carried frequency. The spectrum set $RB=1\text{MHz}$, $VB=3\text{MHz}$.

Test Results

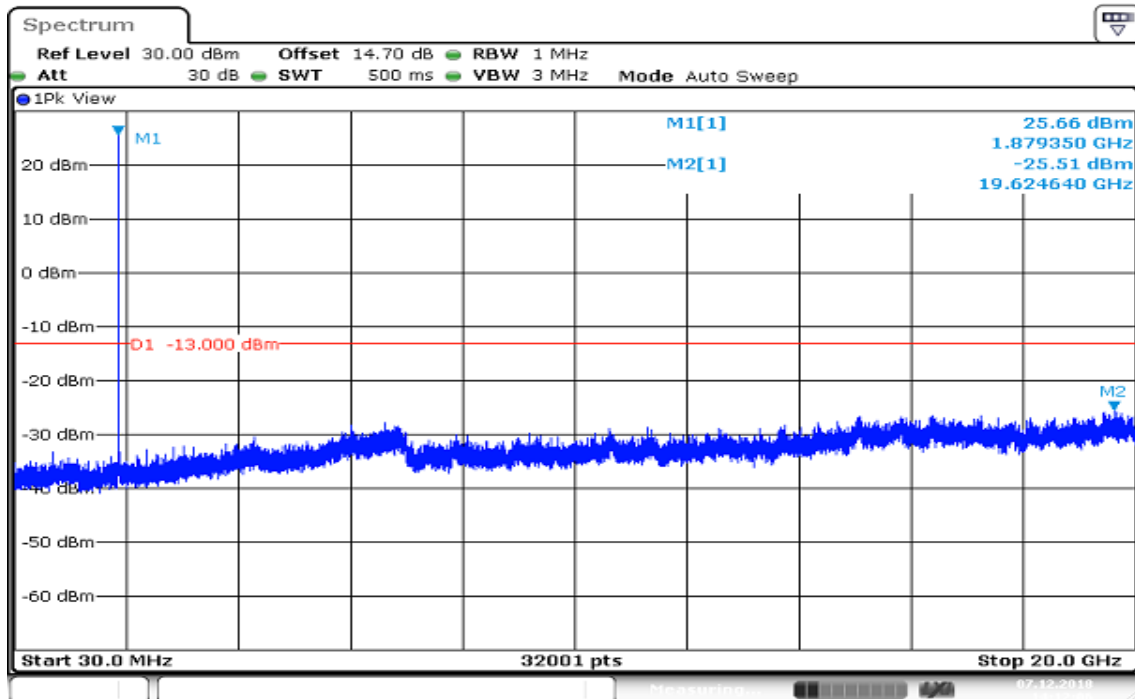
LTE Band 2

CHANNEL BANDWIDTH: 1.4MHz / QPSK

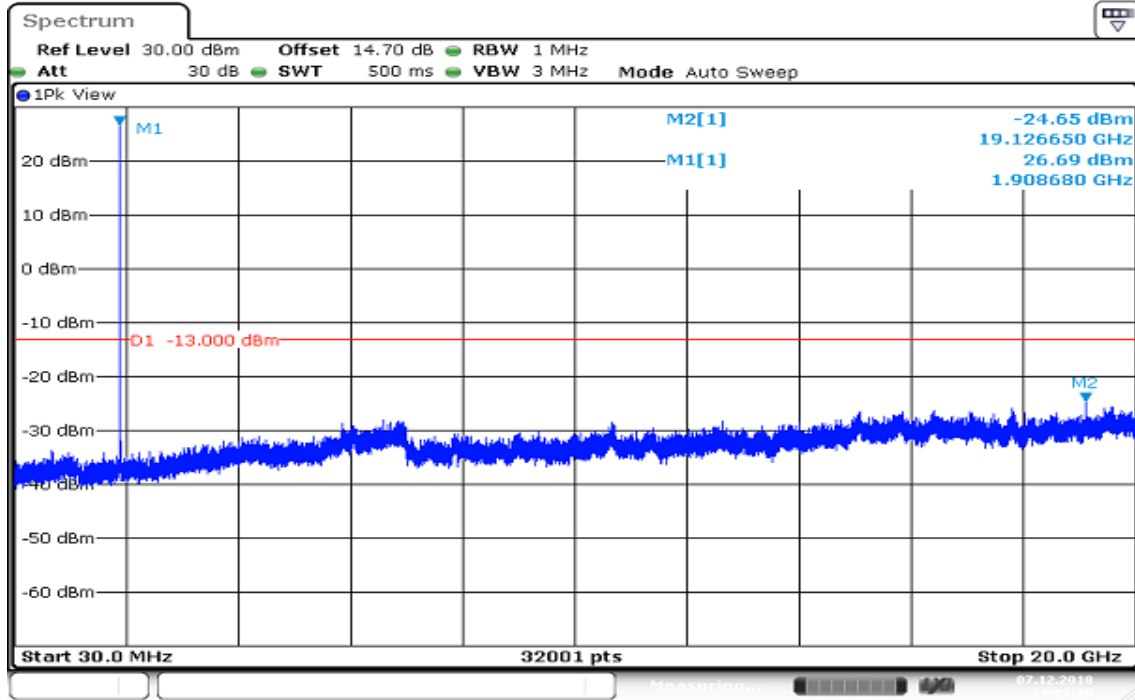
CH Low



CH Mid



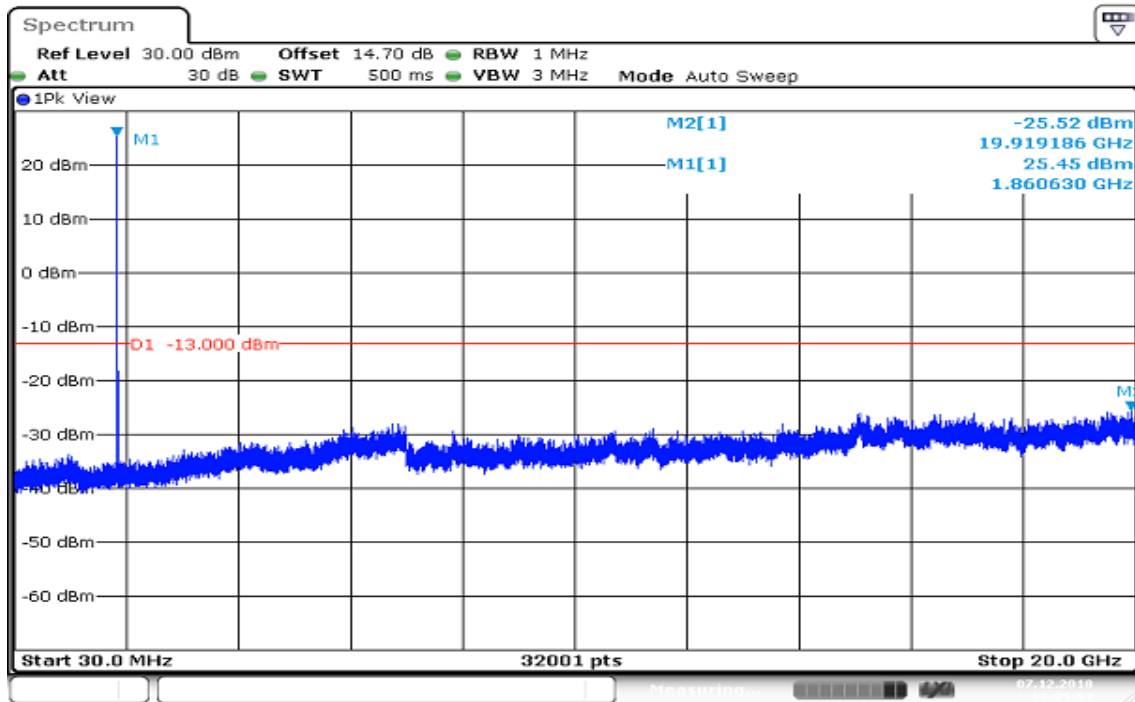
CH High



Date: 7 DEC 2018 14:23:10

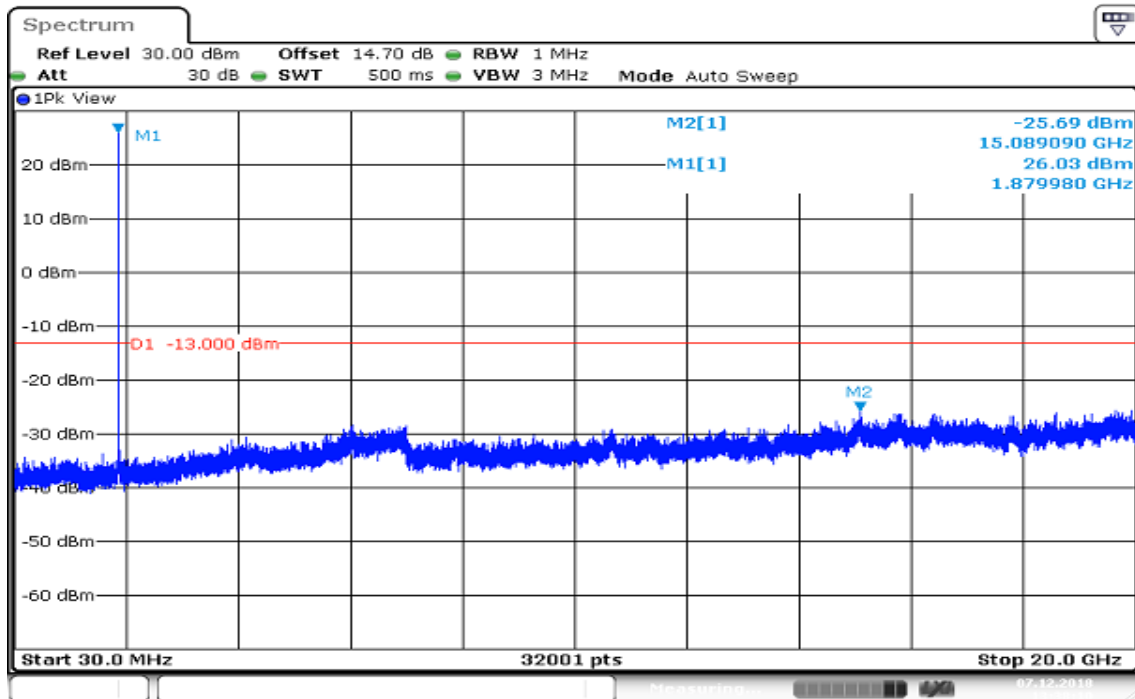
Report No.: T181123D04-RP4

CHANNEL BANDWIDTH: 1.4MHz / 16QAM CH Low



Date: 7 DEC 2018 13:35:54

CH Mid



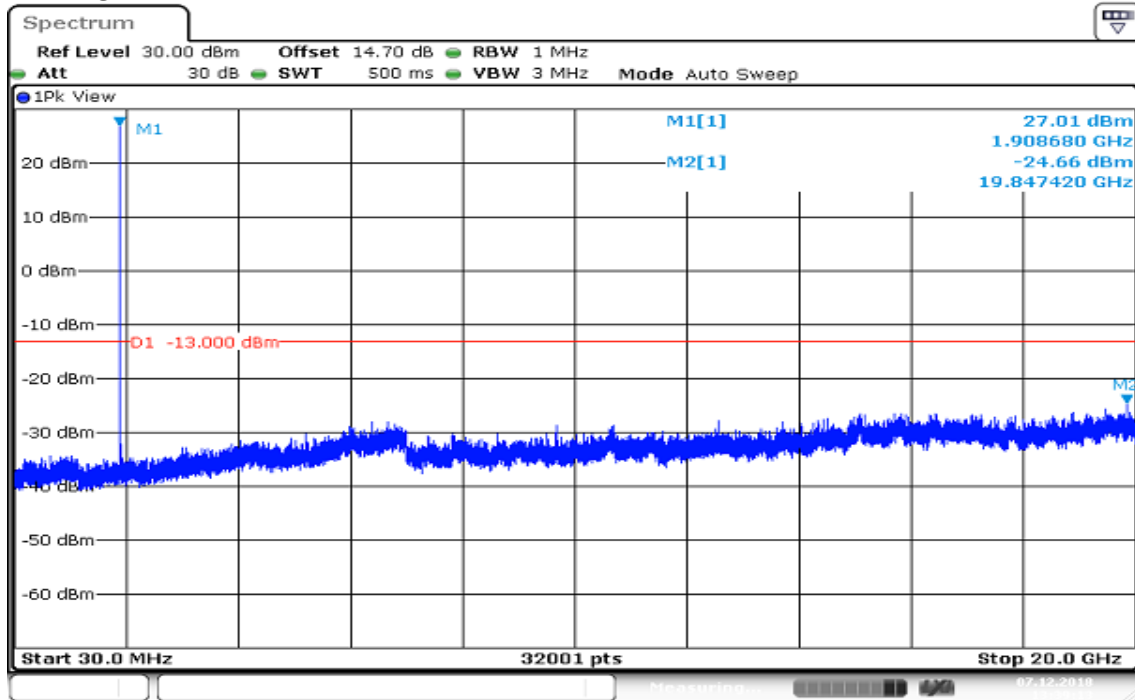
Date: 7 DEC 2018 13:38:11



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CH High



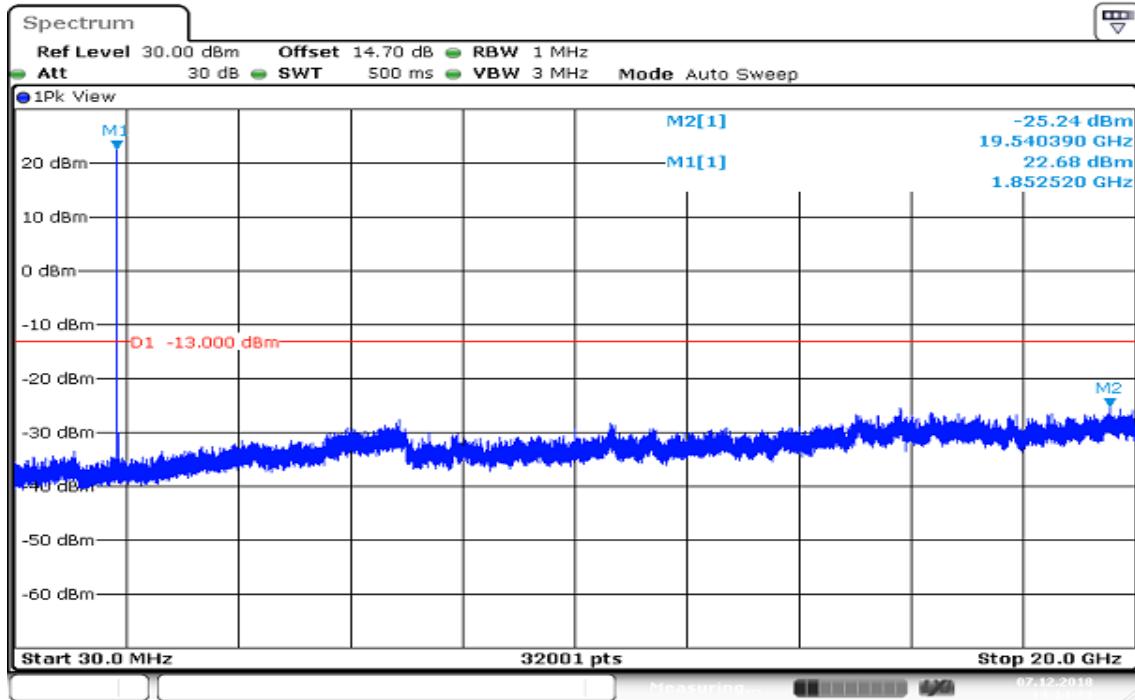
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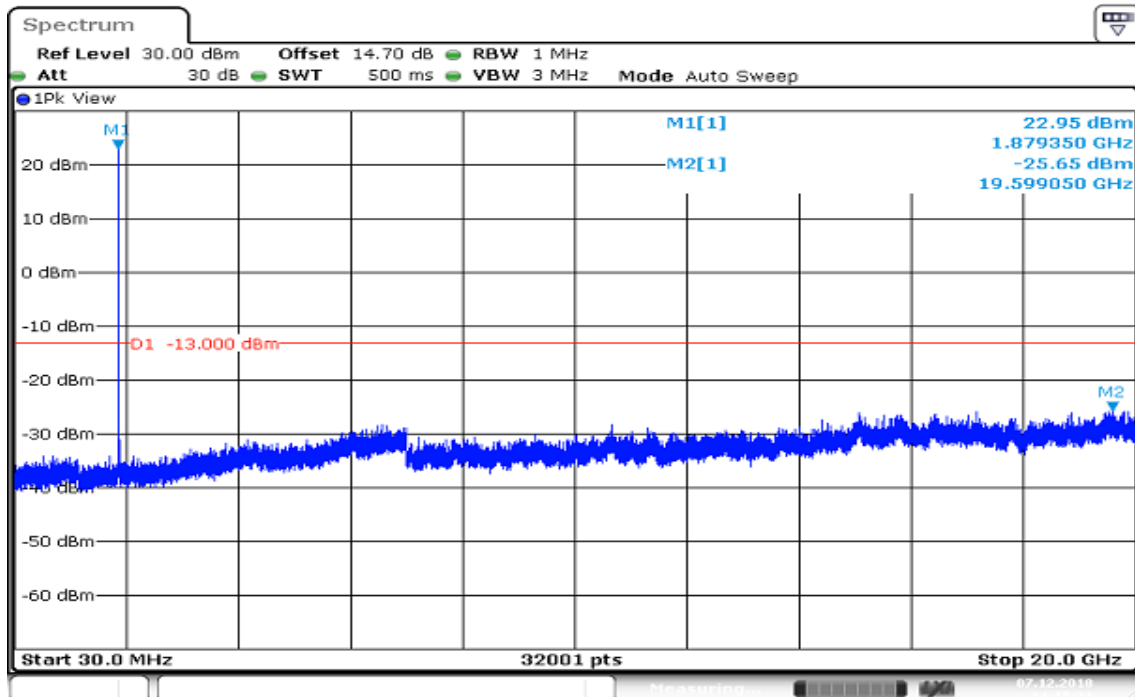
Rev.: 00

CHANNEL BANDWIDTH: 3MHz / QPSK CH Low



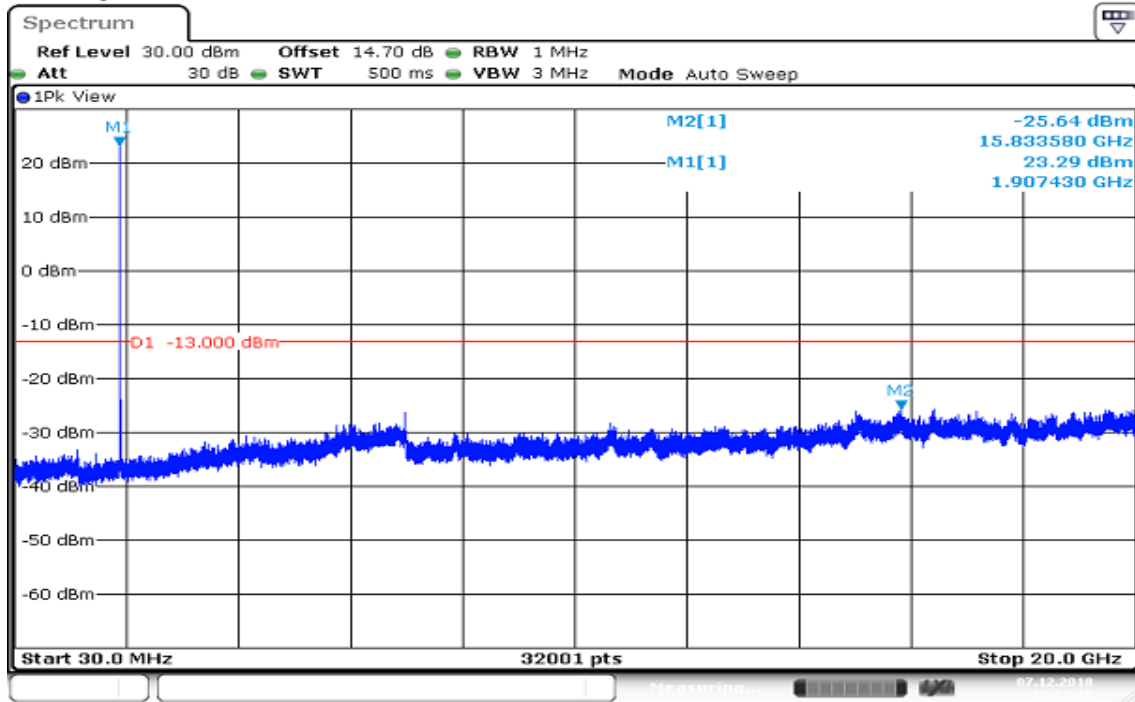
Date: 7 DEC 2018 14:14:24

CH Mid



Date: 7 DEC 2018 14:15:21

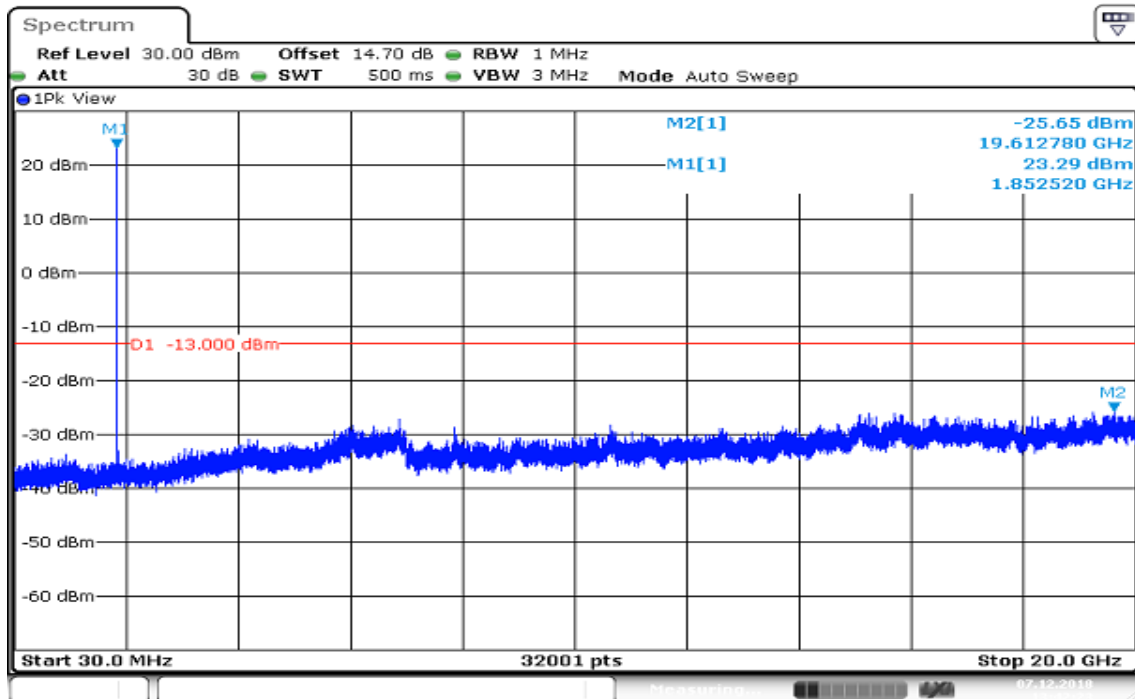
CH High



Date: 7 DEC 2018 14:17:11

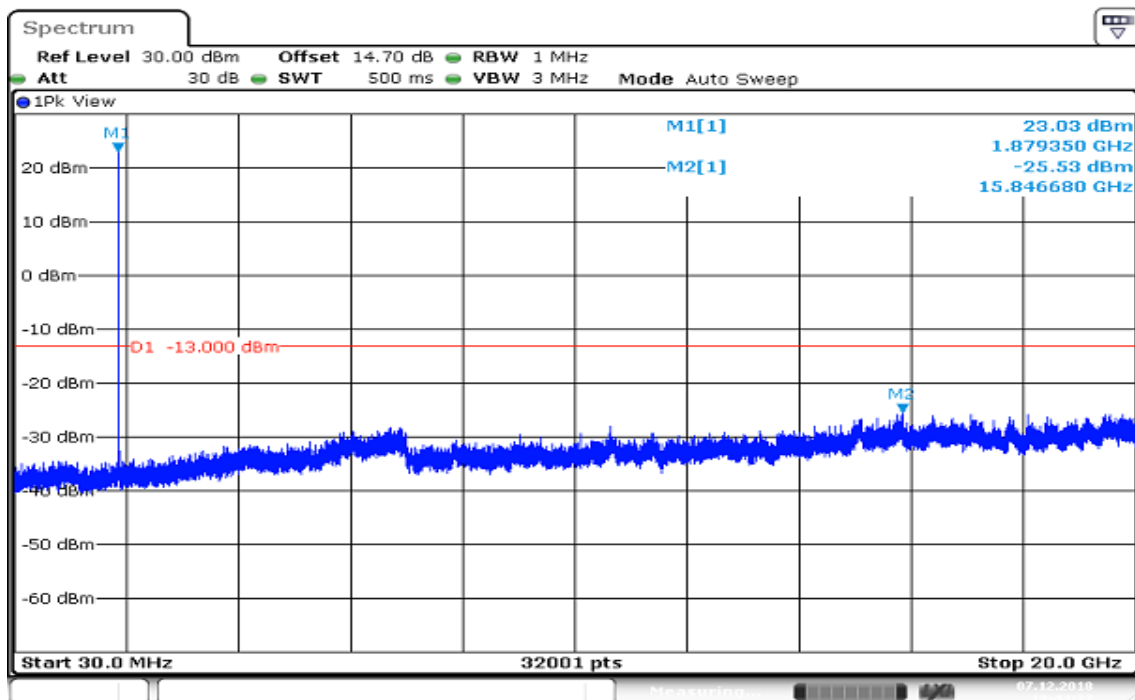
Report No.: T181123D04-RP4

CHANNEL BANDWIDTH: 3MHz / 16QAM CH Low



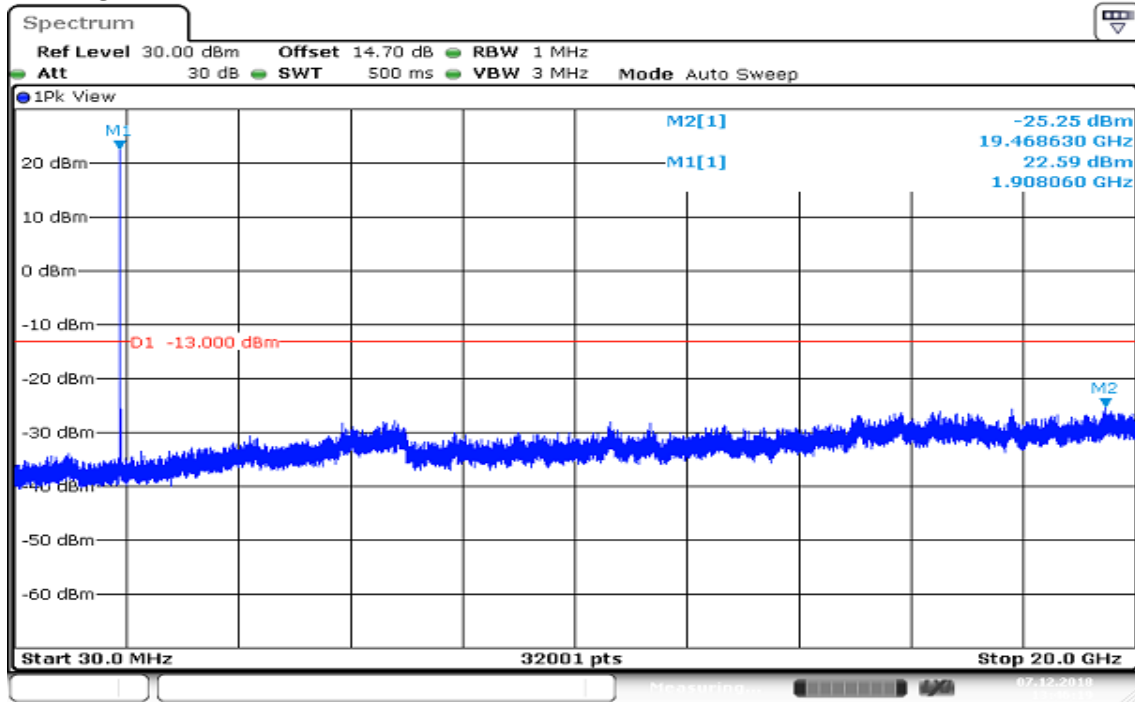
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CH Mid



Date: 7 DEC 2018 13:44:28

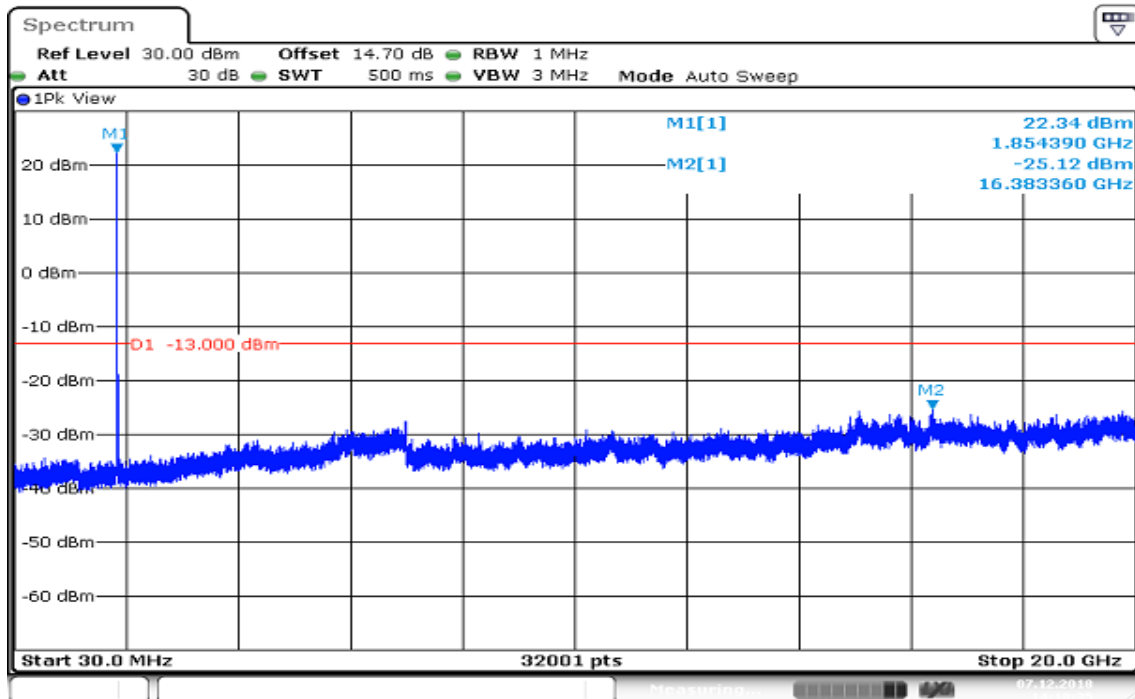
CH High



Date: 7 DEC 2018 13:46:19

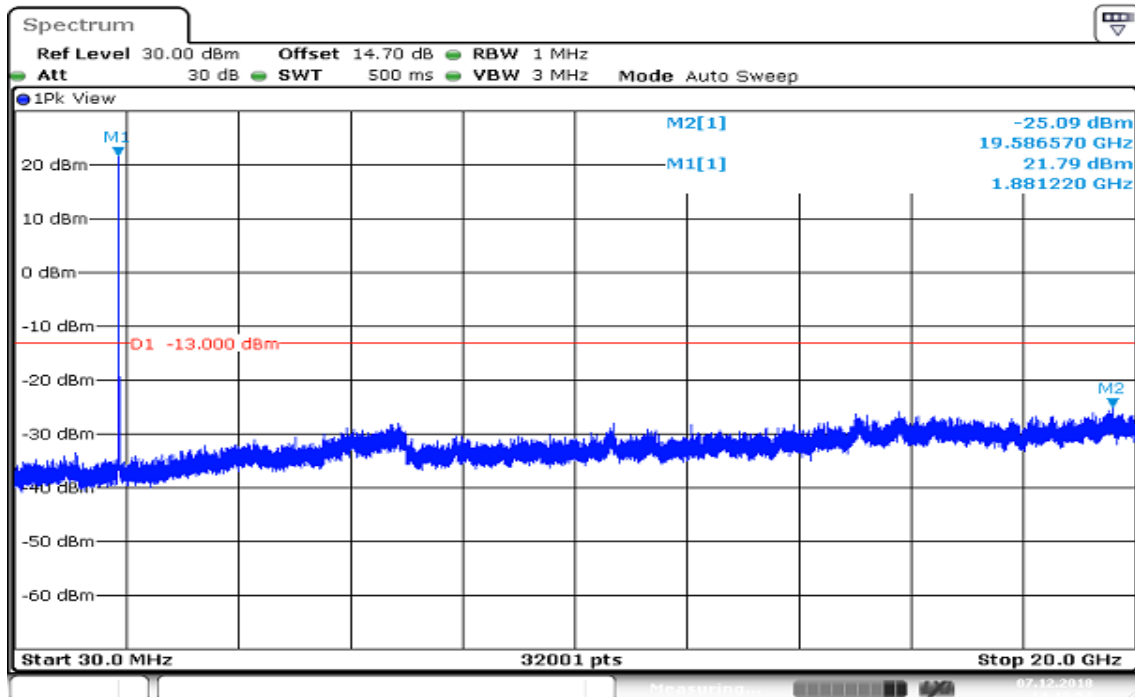
Report No.: T181123D04-RP4

CHANNEL BANDWIDTH: 5MHz / QPSK CH Low



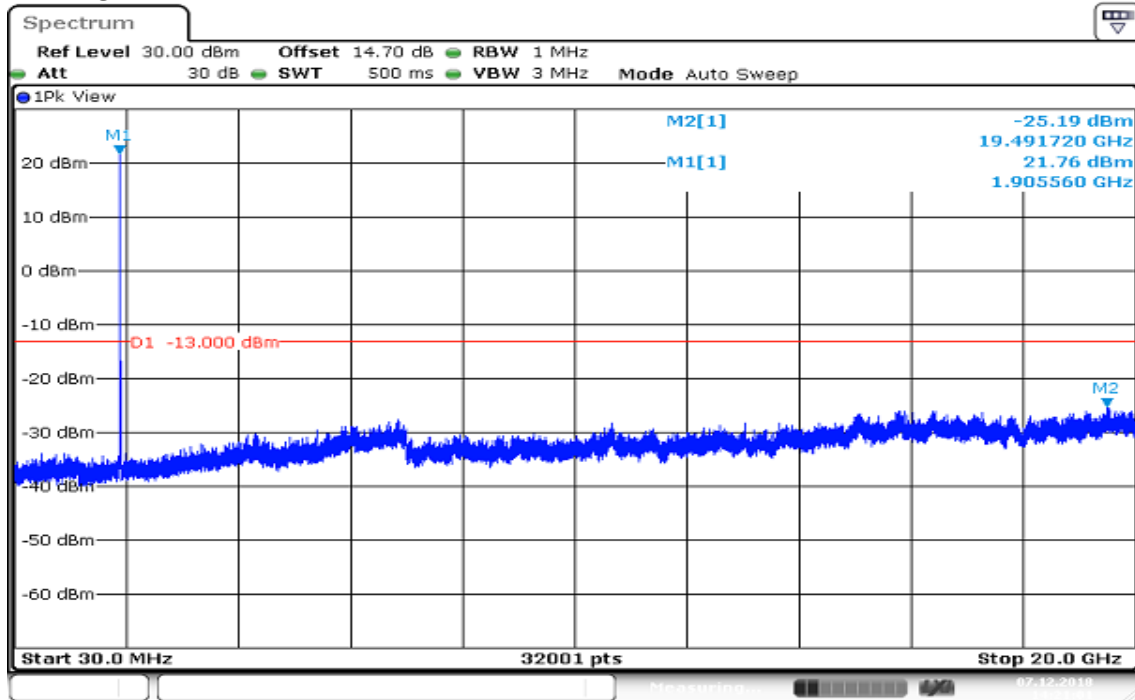
Date: 7 DEC 2018 14:18:25

CH Mid



Date: 7 DEC 2018 14:19:57

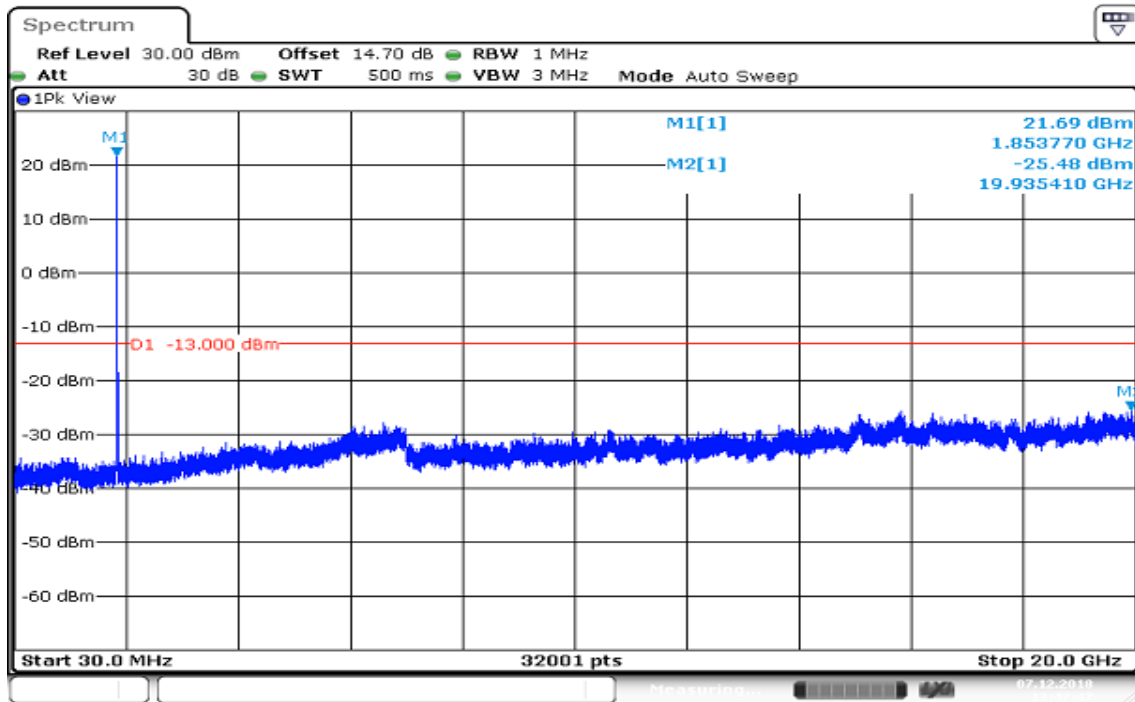
CH High



Date: 7 DEC 2018 14:21:01

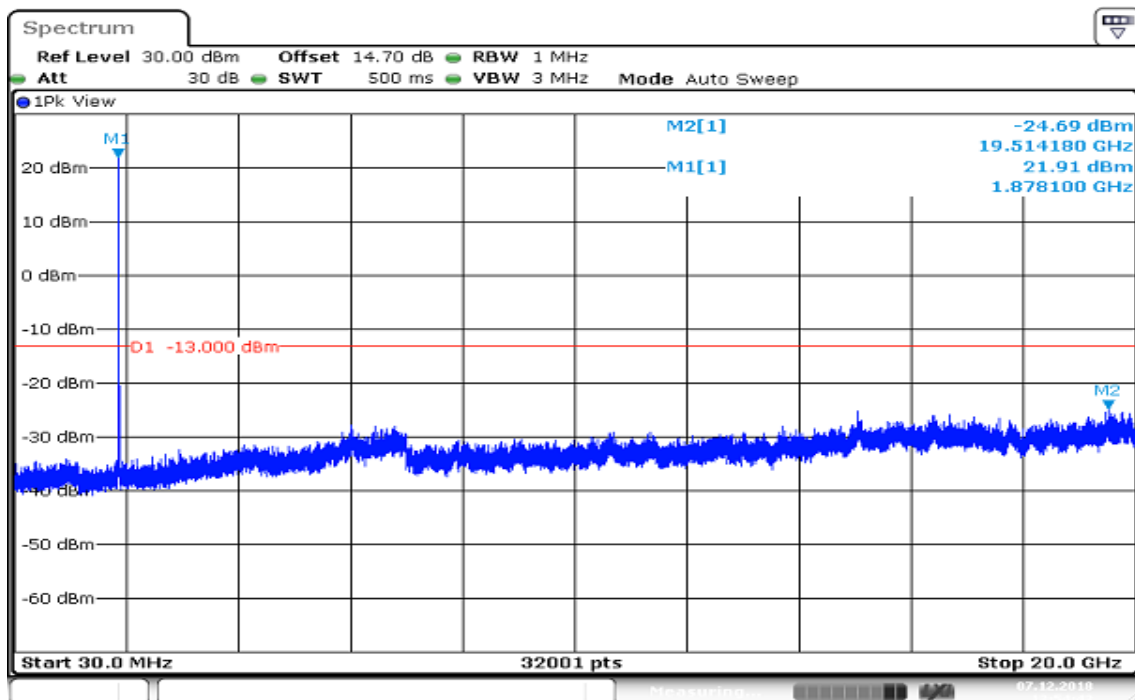
Report No.: T181123D04-RP4

CHANNEL BANDWIDTH: 5MHz / 16QAM CH Low



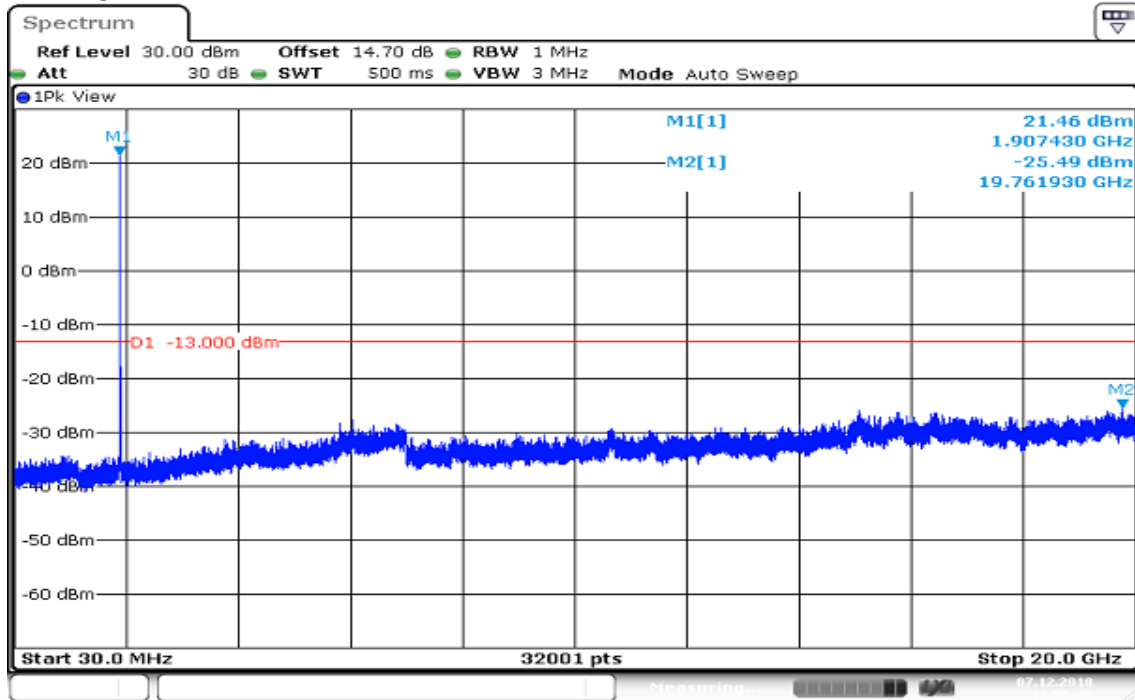
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CH Mid



Date: 7 DEC 2018 13:54:44

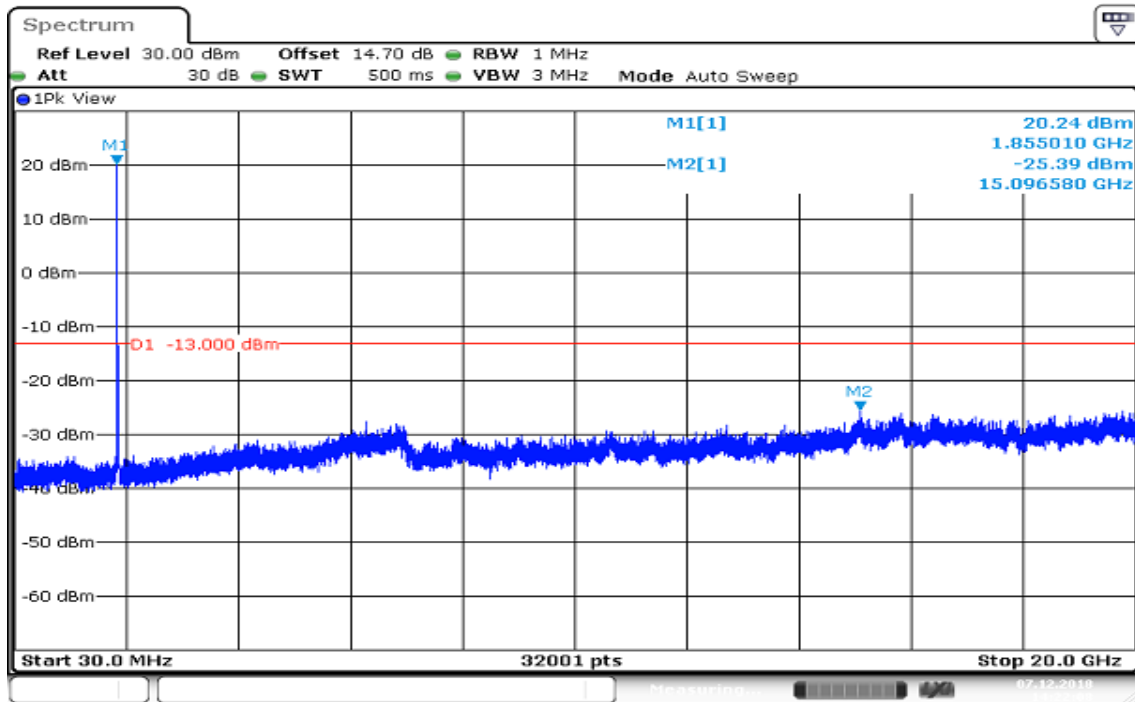
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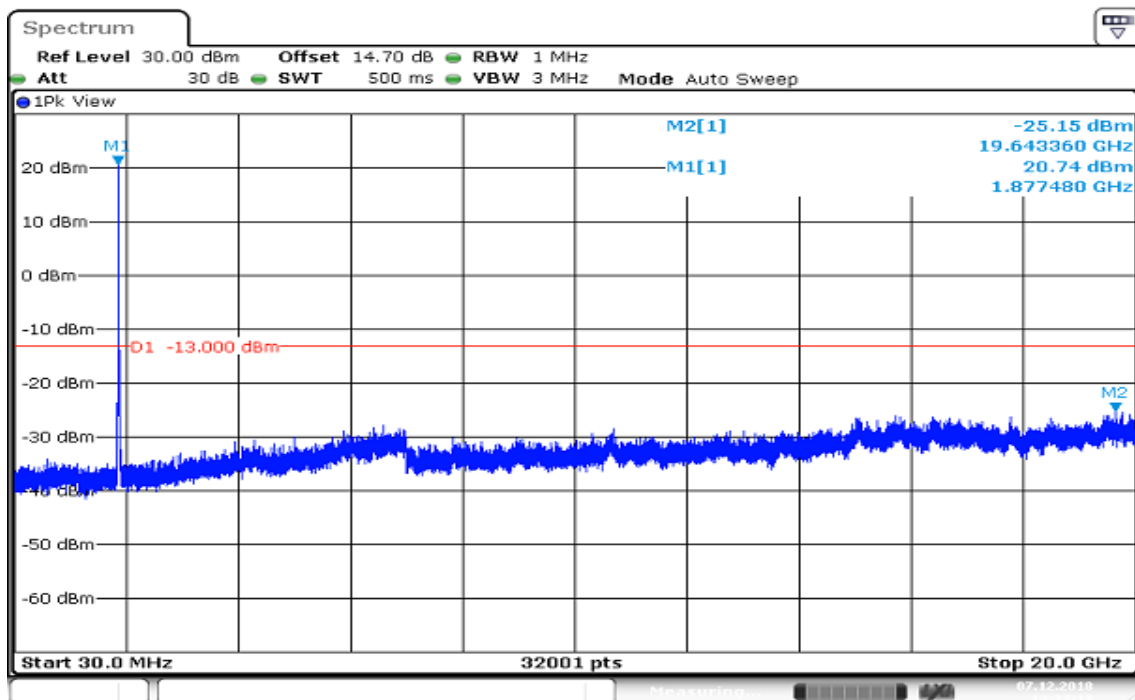
Report No.: T181123D04-RP4

CHANNEL BANDWIDTH: 10MHz / QPSK CH Low



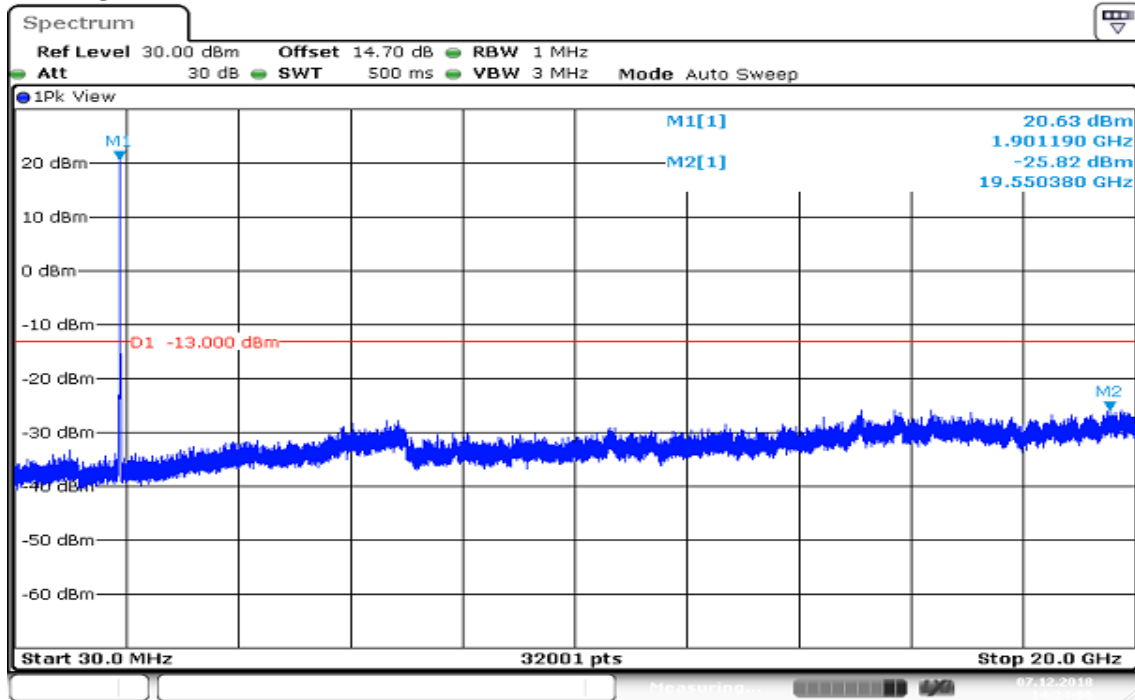
Date: 7 DEC 2018 14:22:08

CH Mid



Date: 7 DEC 2018 14:23:17

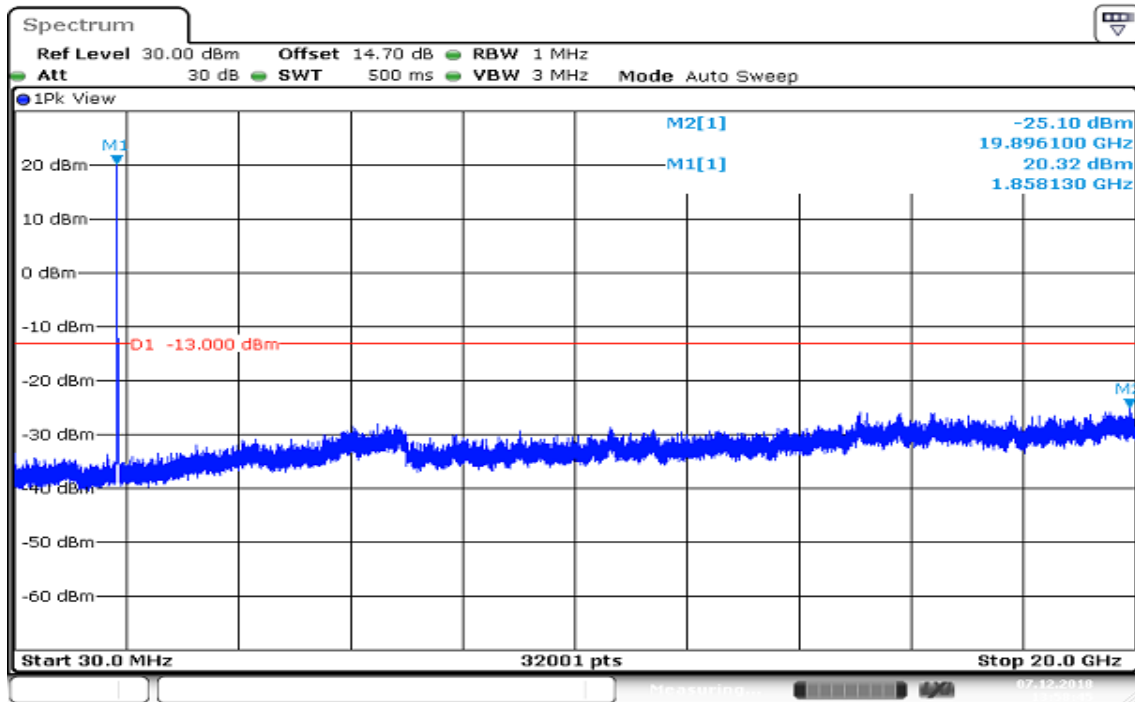
CH High



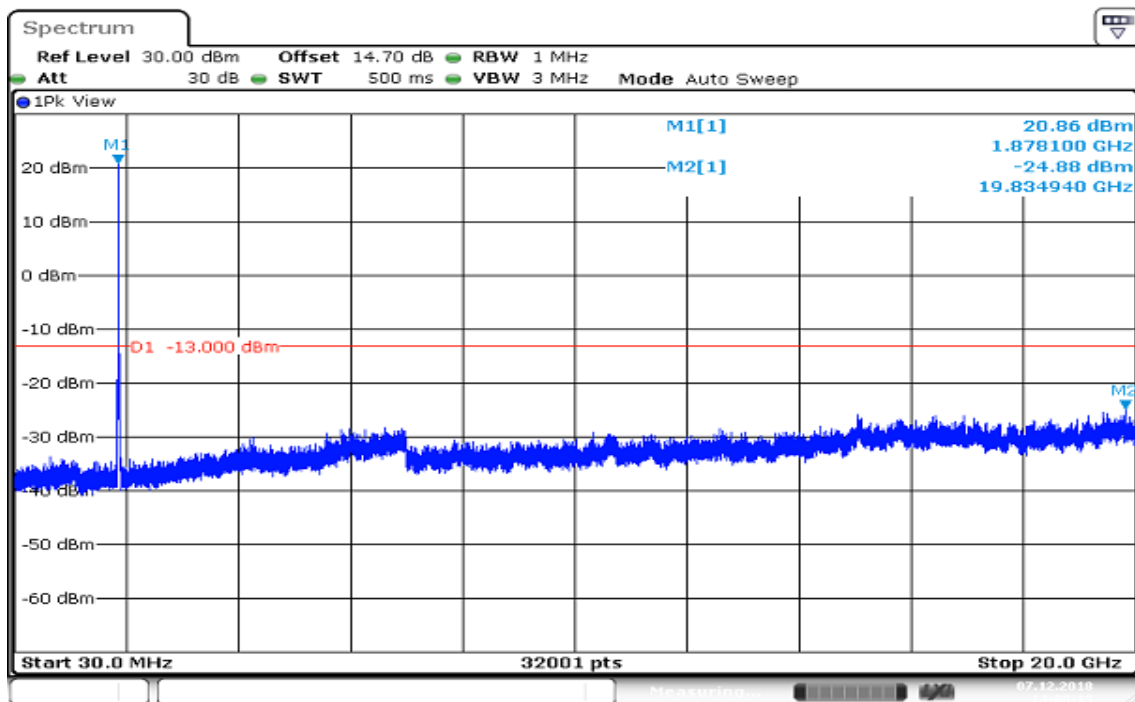
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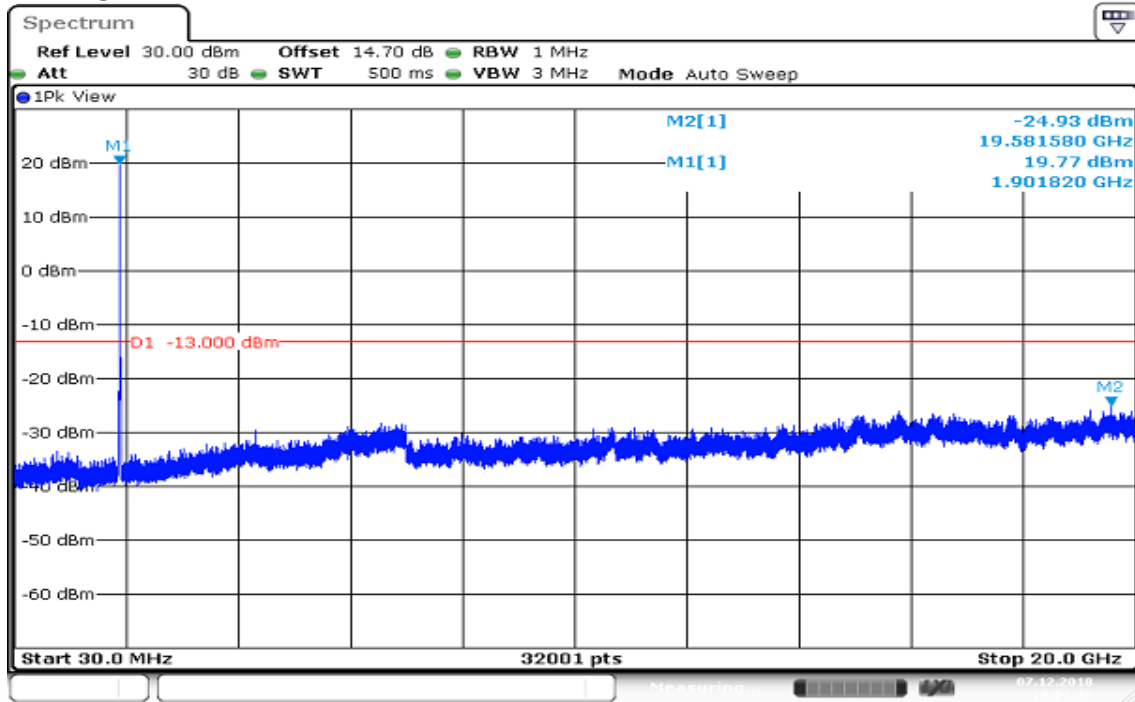
CHANNEL BANDWIDTH: 10MHz / 16QAM CH Low



CH Mid



CH High



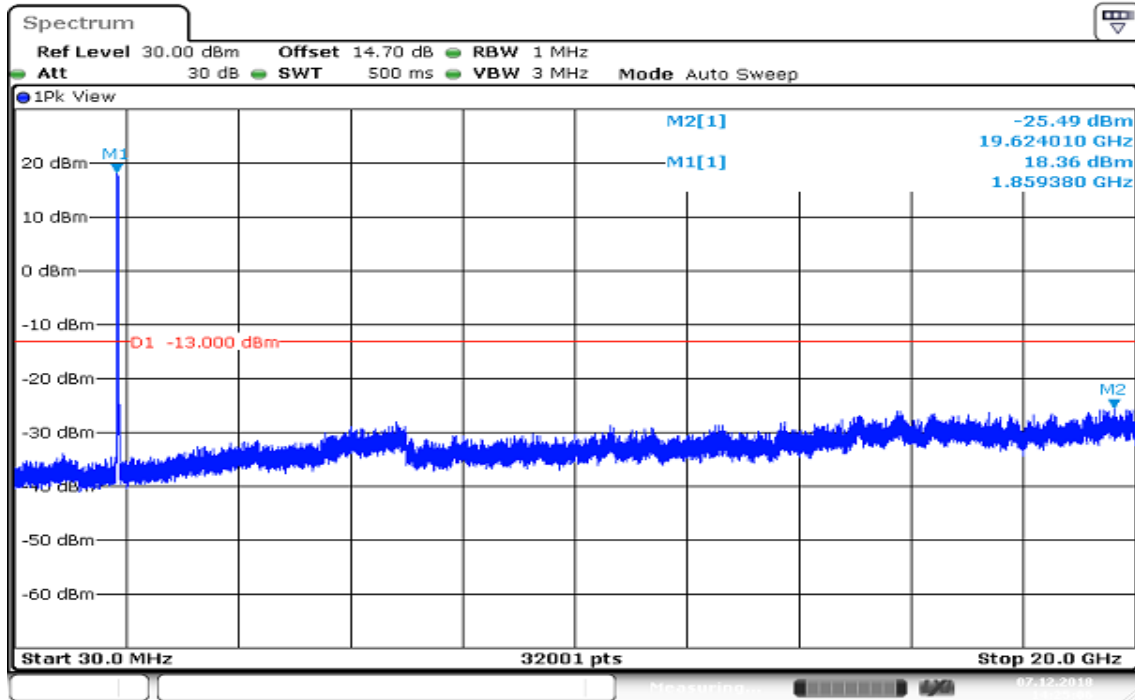
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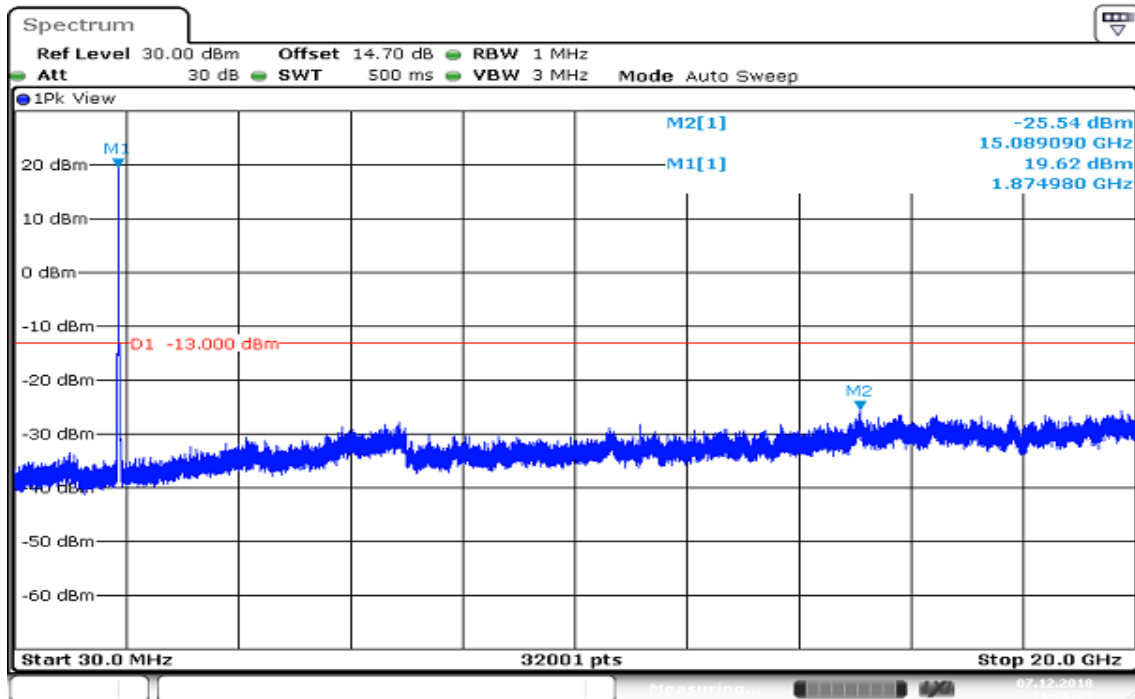
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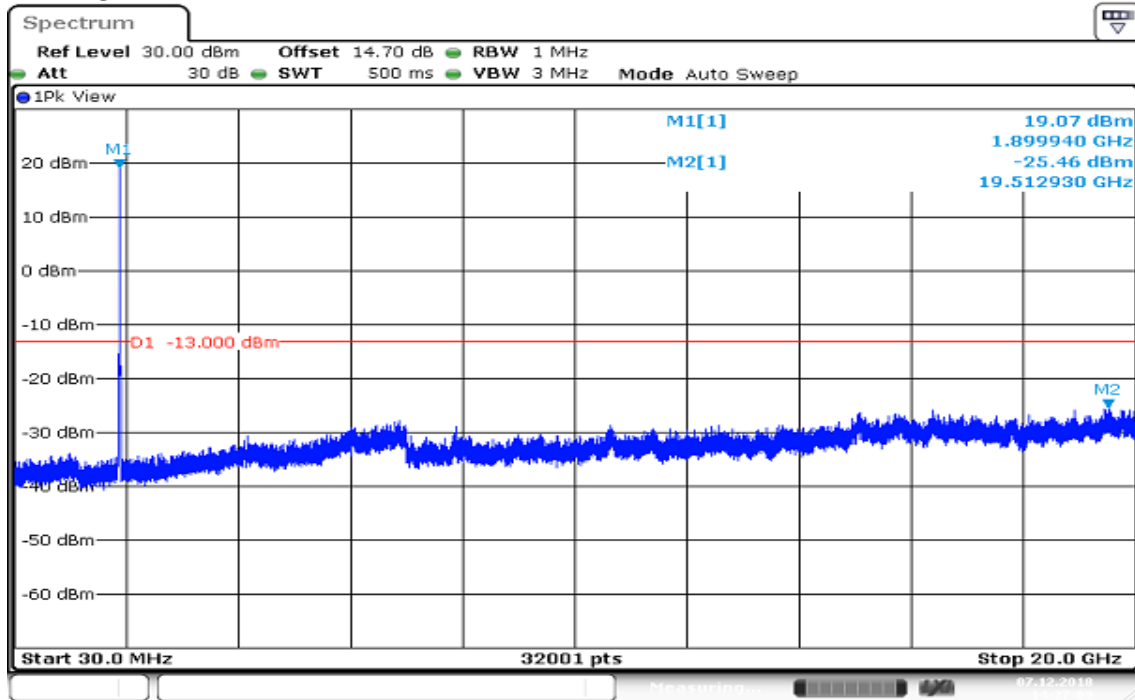
CHANNEL BANDWIDTH: 15MHz / QPSK CH Low



CH Mid



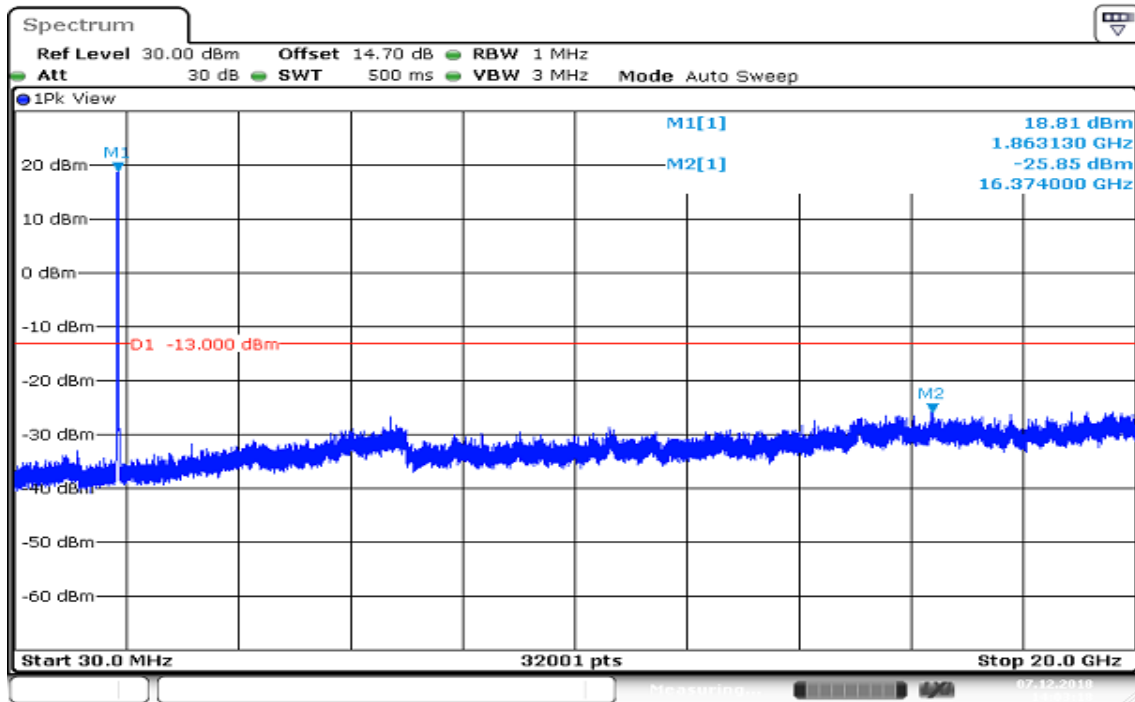
CH High



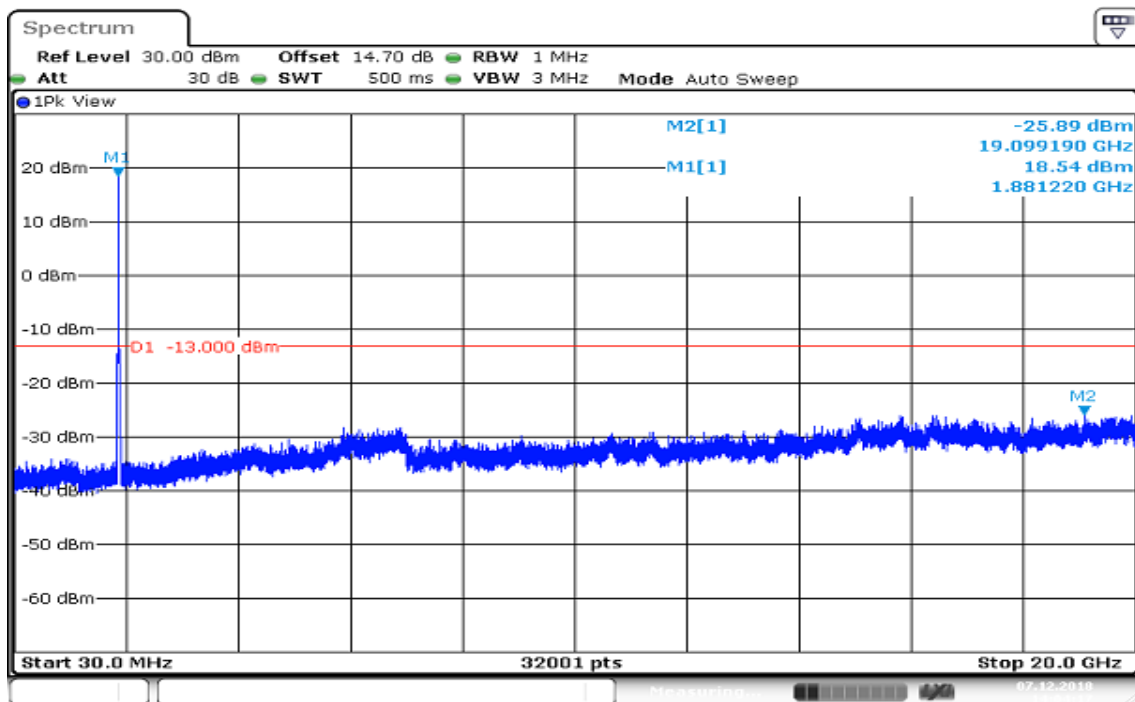
Date: 7 DEC 2018 14:27:10

Report No.: T181123D04-RP4

CHANNEL BANDWIDTH: 15MHz / 16QAM CH Low



CH Mid

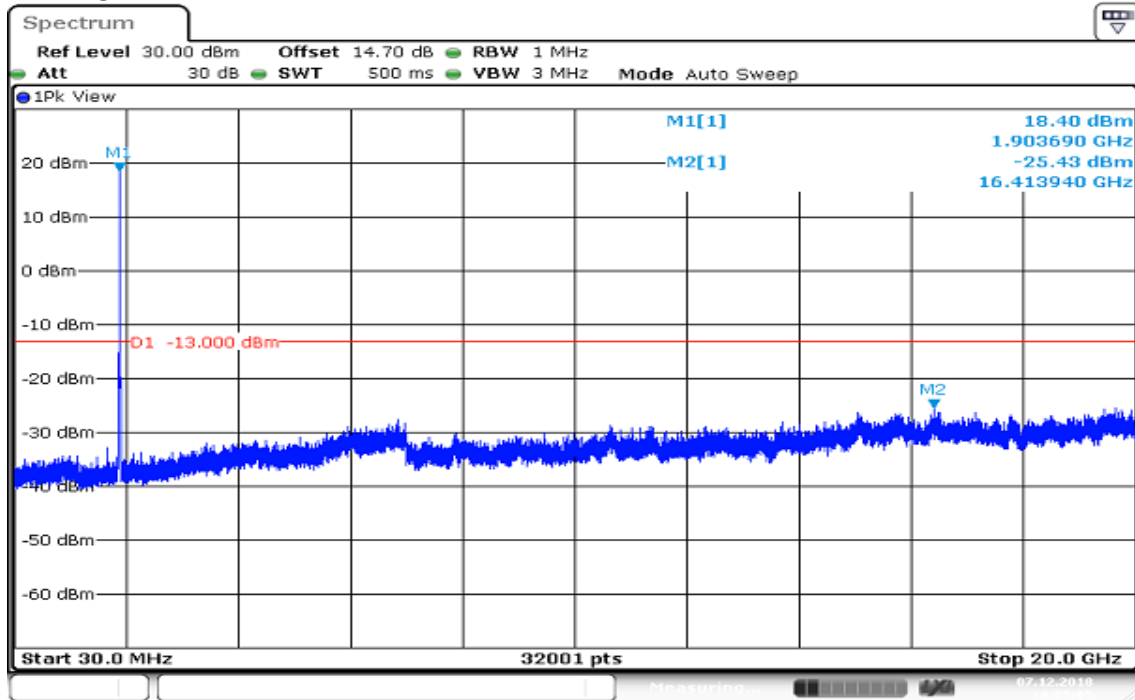




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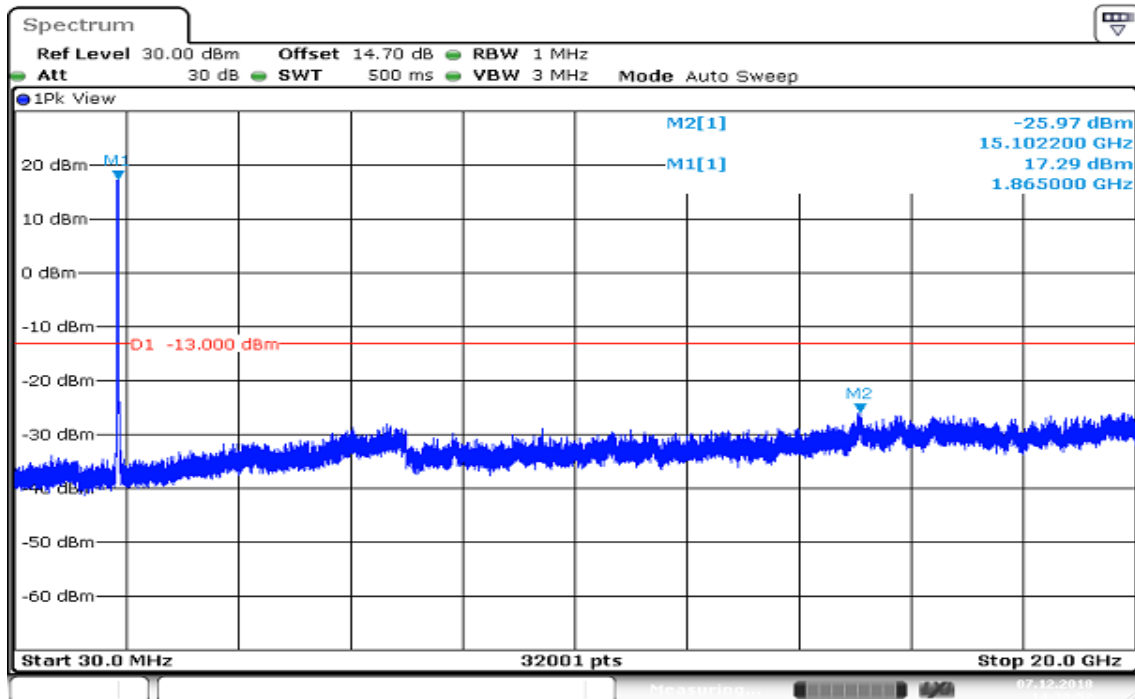
CH High



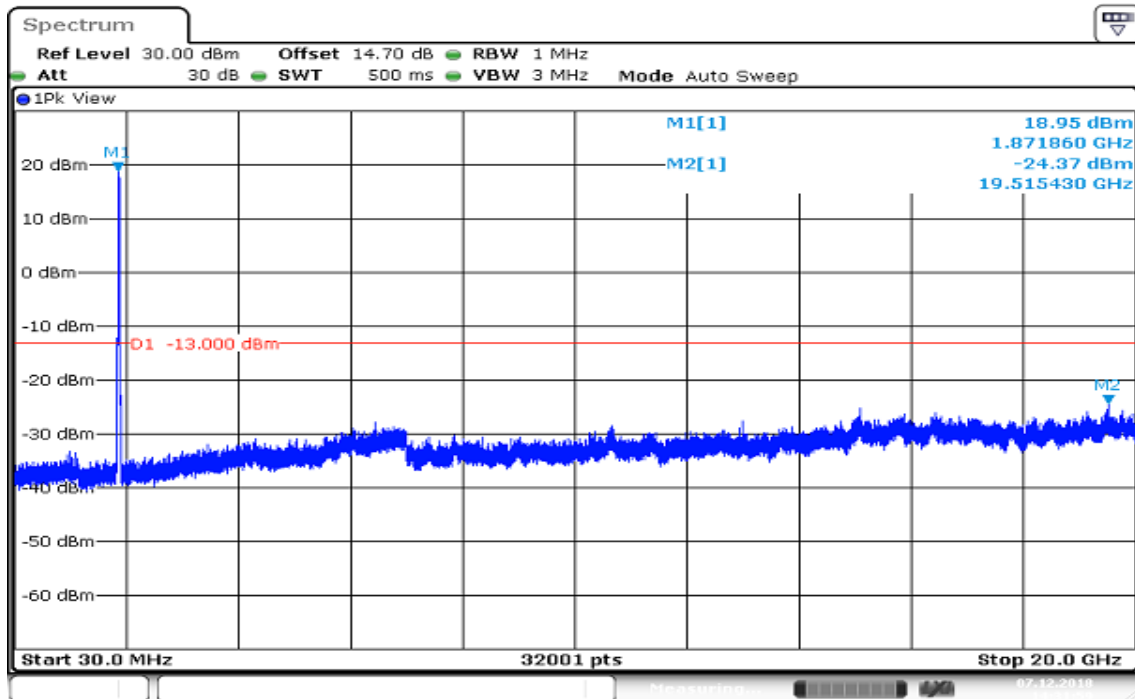
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Report No.: T181123D04-RP4

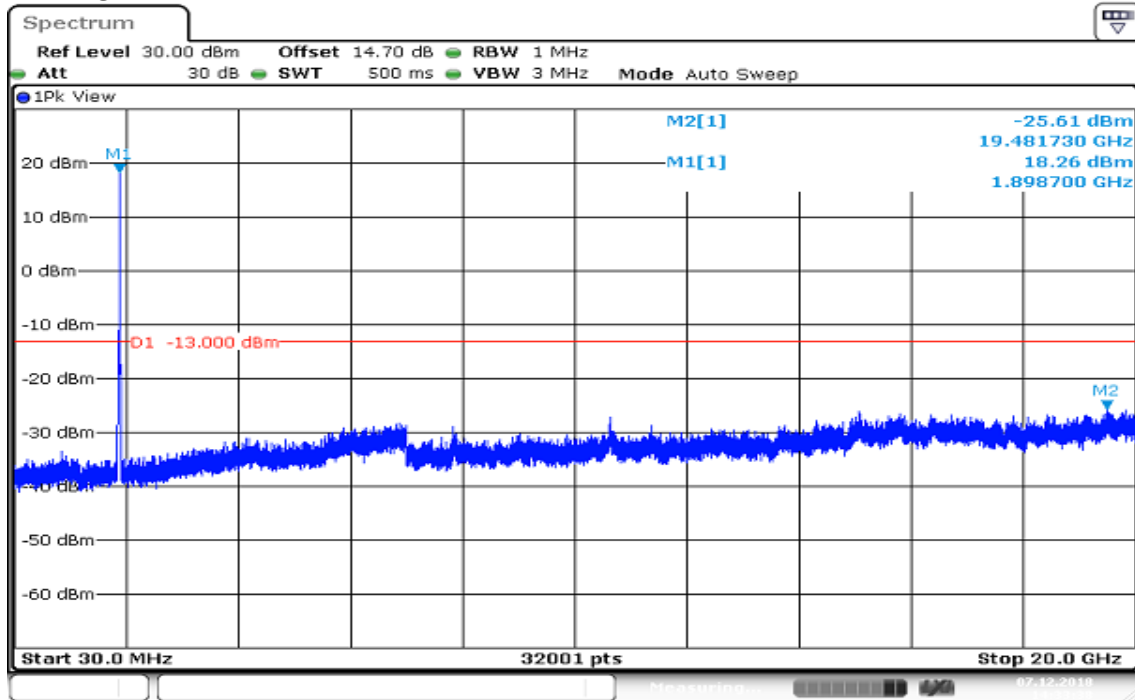
CHANNEL BANDWIDTH: 20MHz / QPSK CH Low



CH Mid



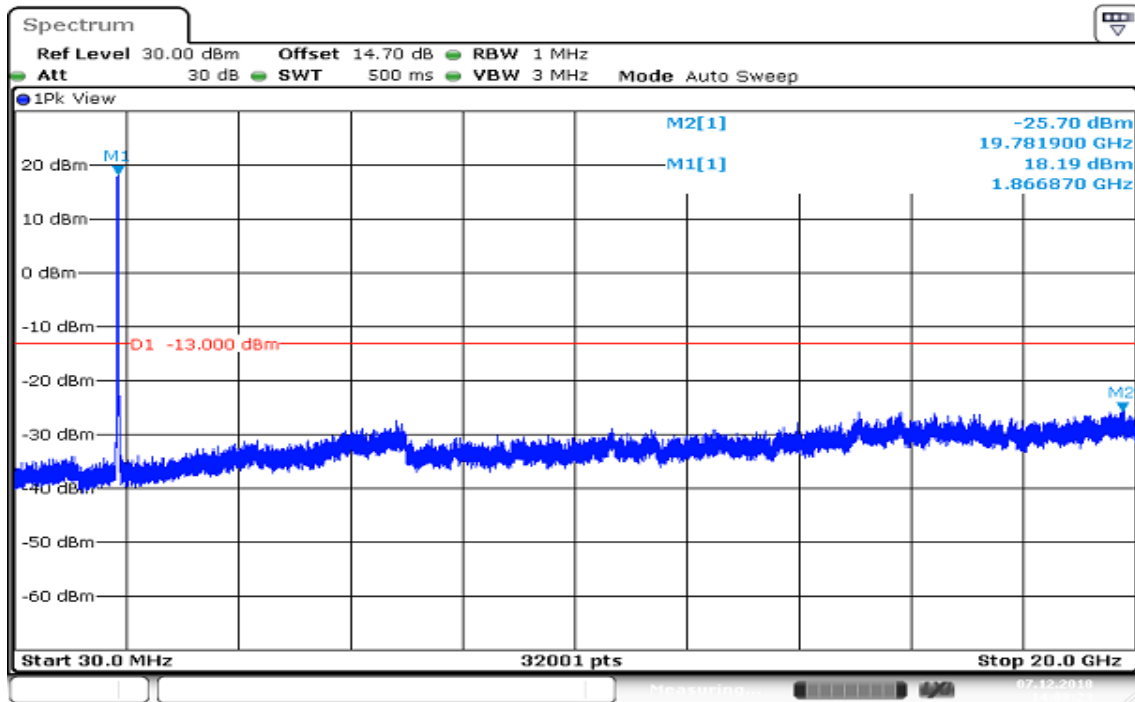
CH High



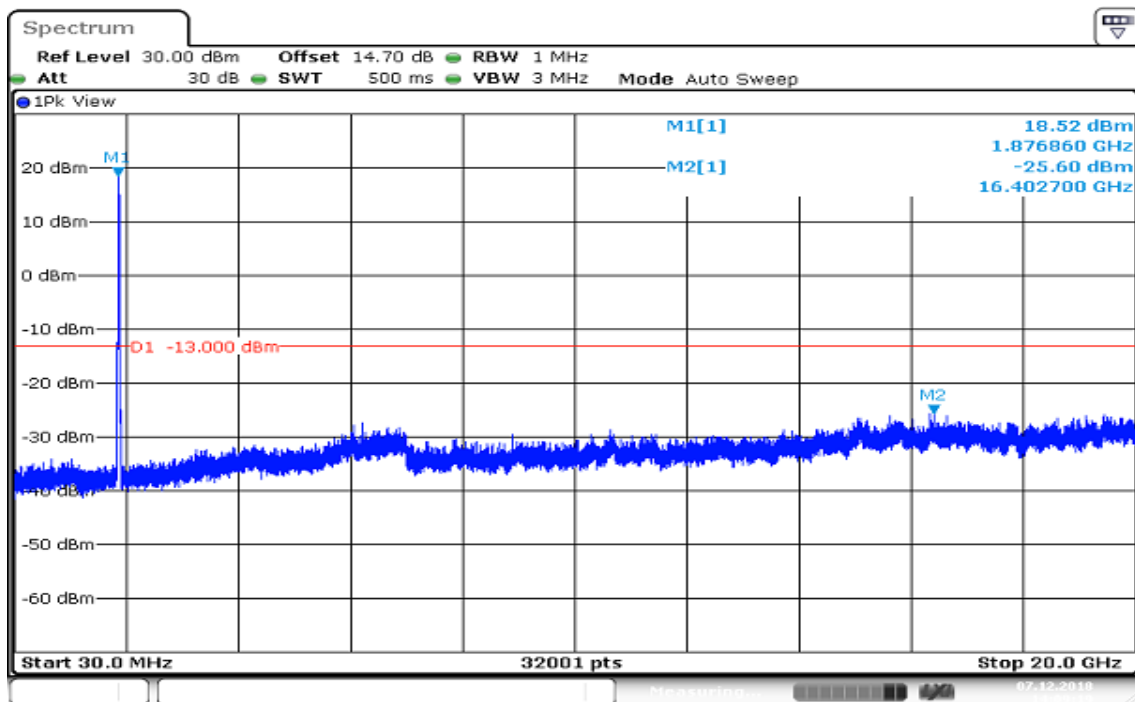
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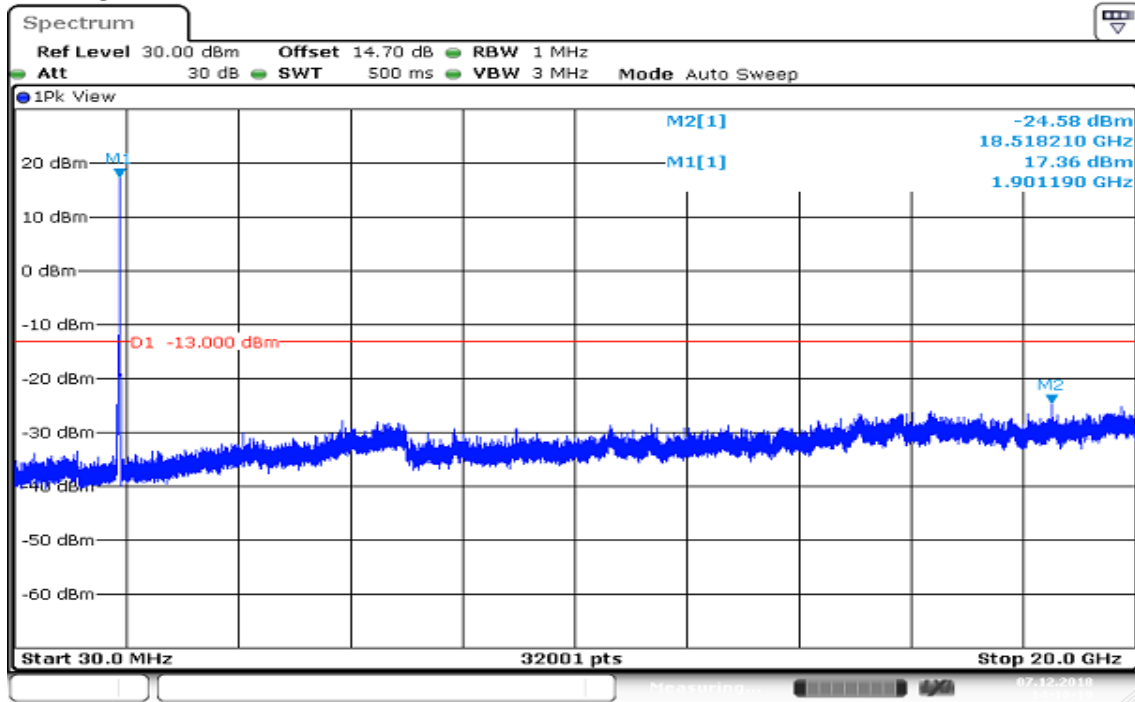
CHANNEL BANDWIDTH: 20MHz / 16QAM CH Low



CH Mid



CH High

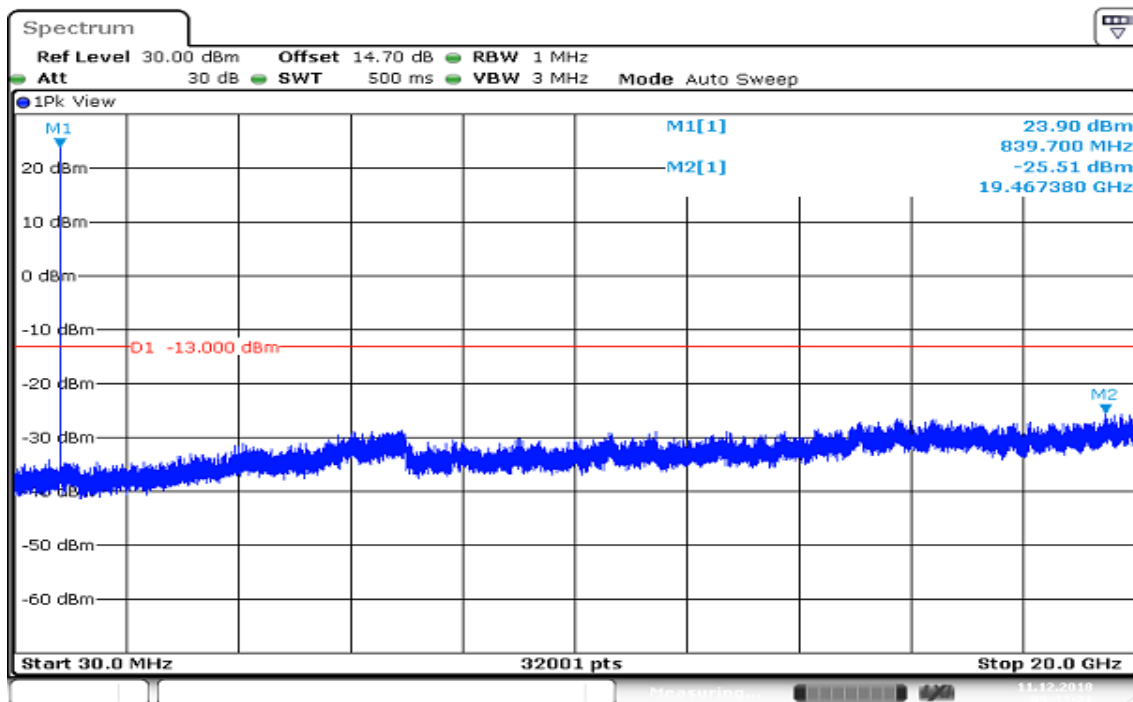


Date: 7 DEC 2018 14:10:19

LTE Band 5

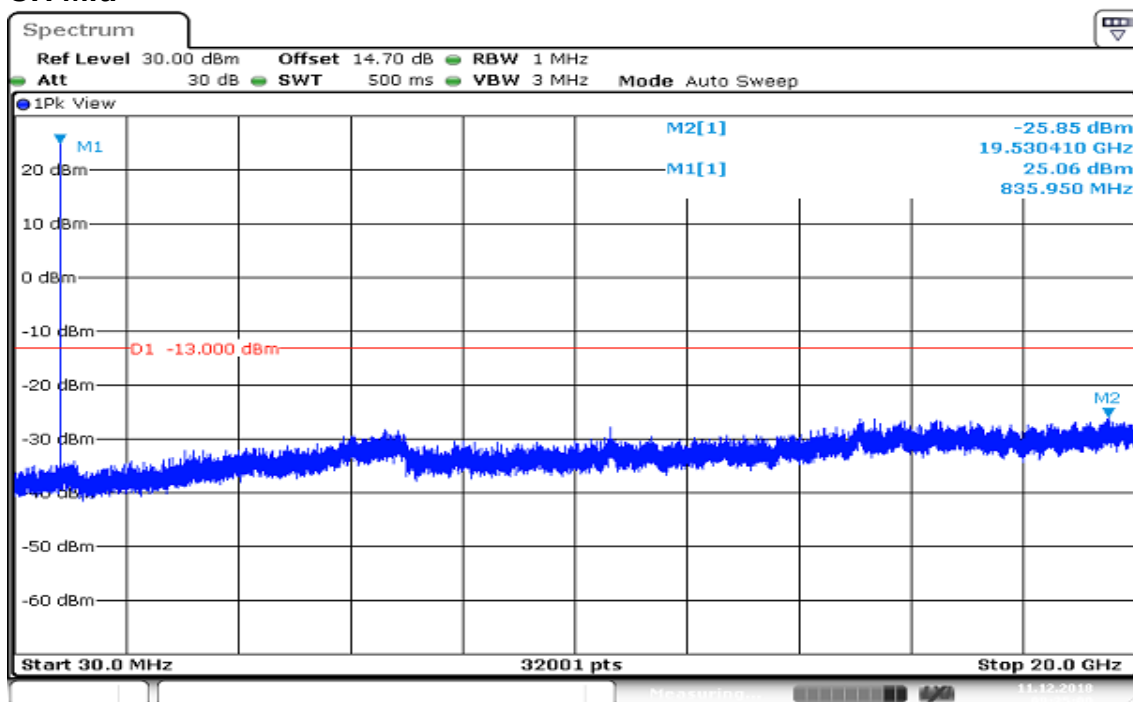
CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH Low



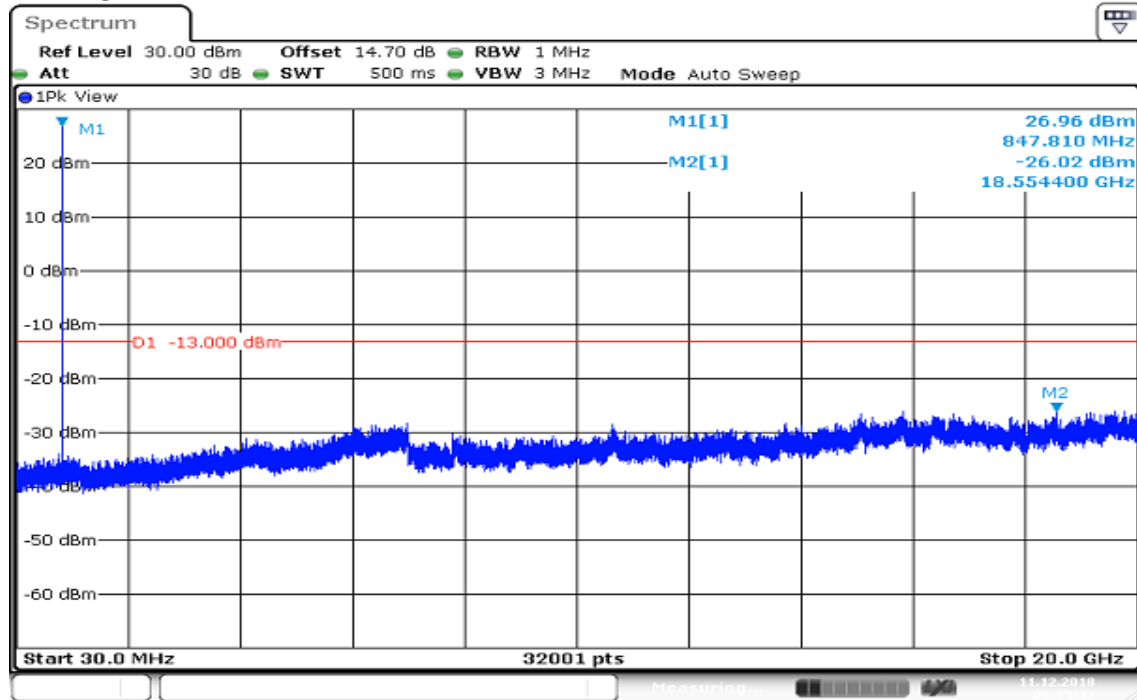
Date: 11 DEC 2018 09:23:21

CH Mid



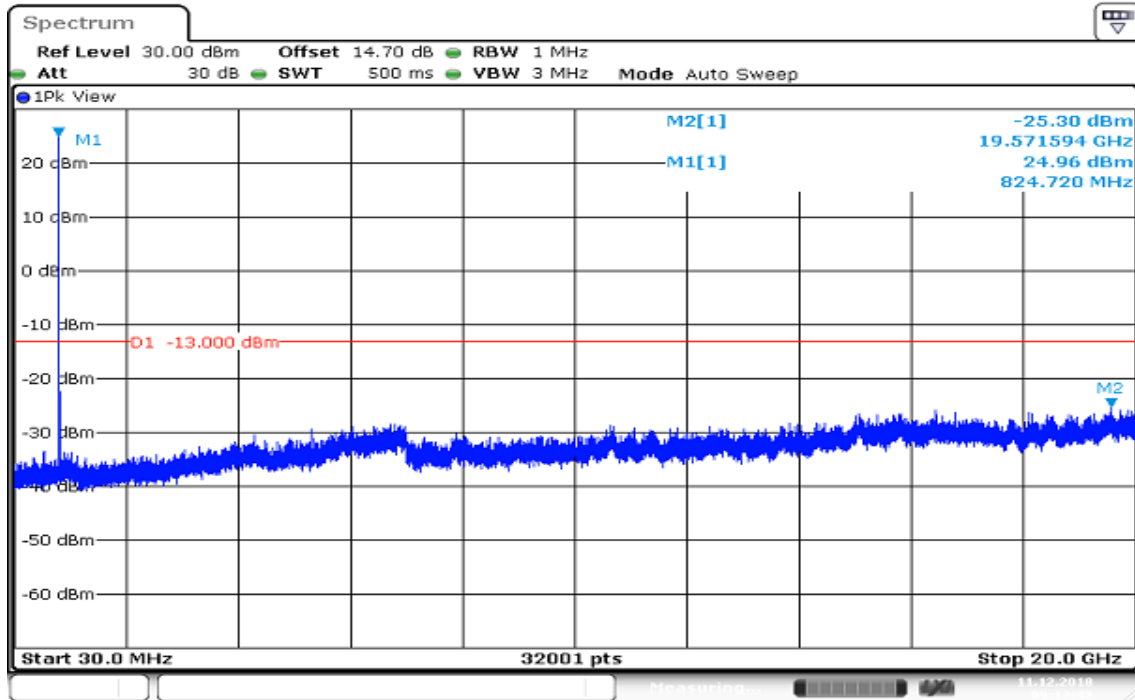
Date: 11 DEC 2018 09:25:01

CH High

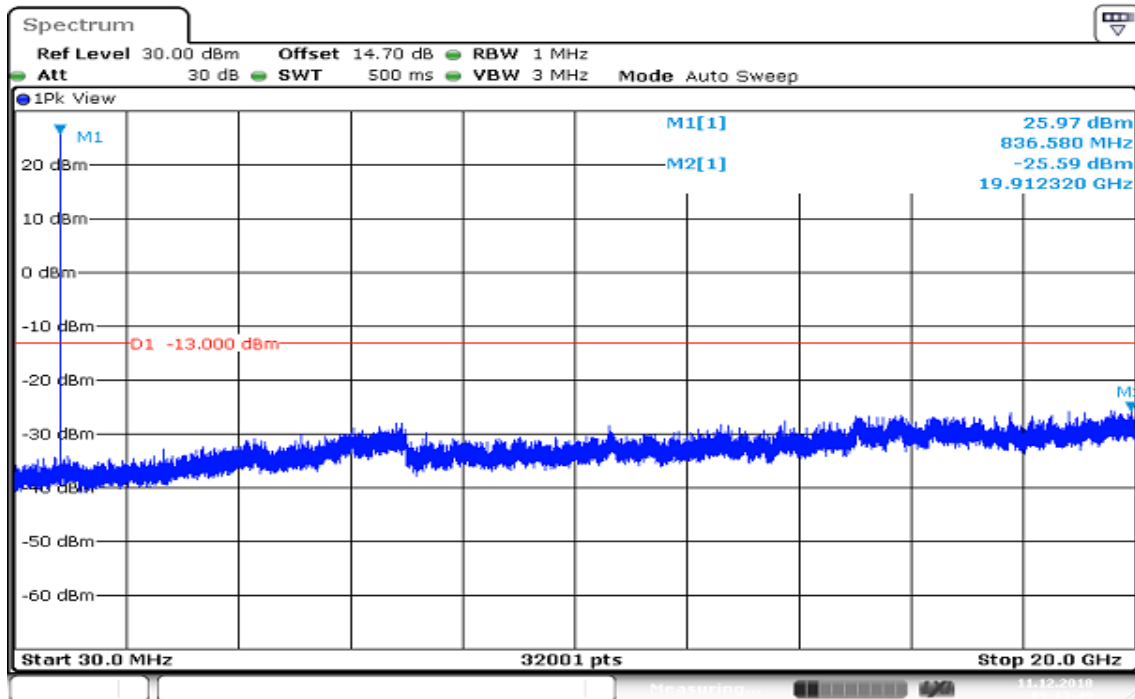


Date: 11 DEC 2018 09:25:42

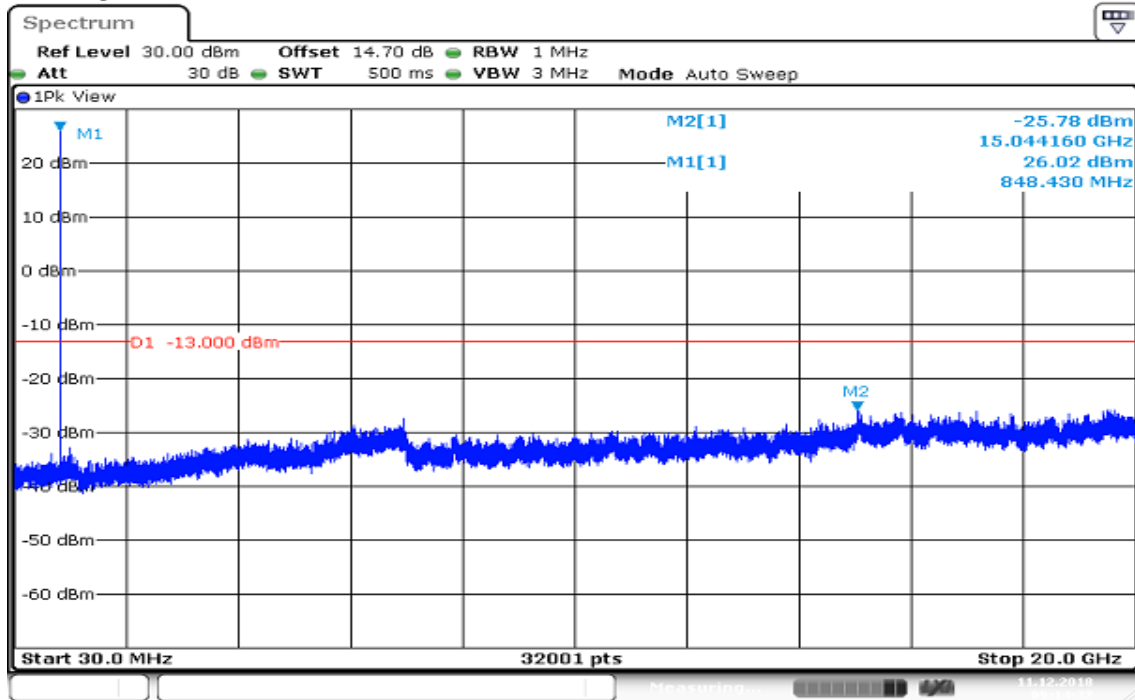
CHANNEL BANDWIDTH: 1.4MHz / 16QAM CH Low



CH Mid



CH High



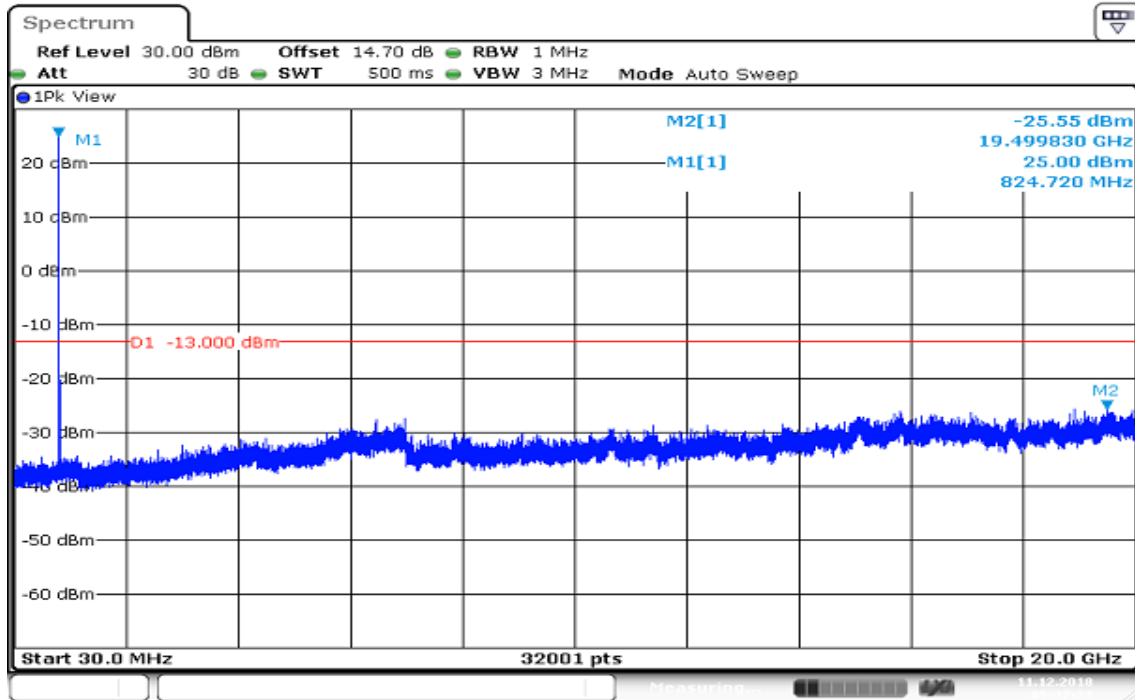
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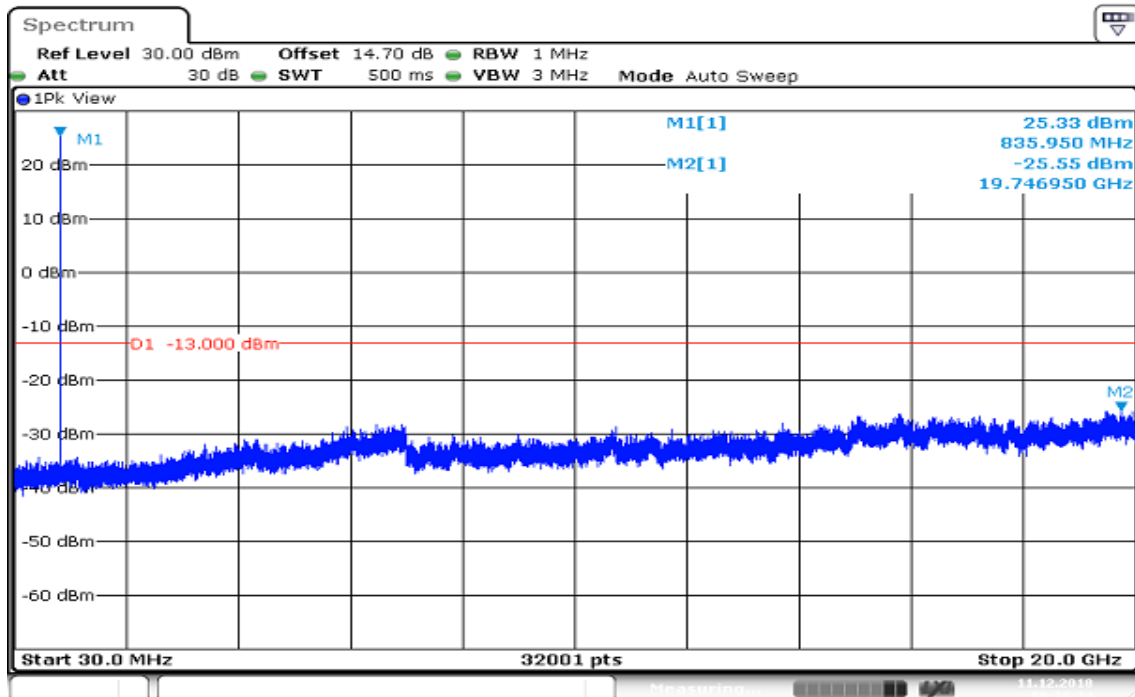
Rev.: 00

CHANNEL BANDWIDTH: 3MHz / QPSK CH Low



Date: 11 DEC 2018 09:27:27

CH Mid



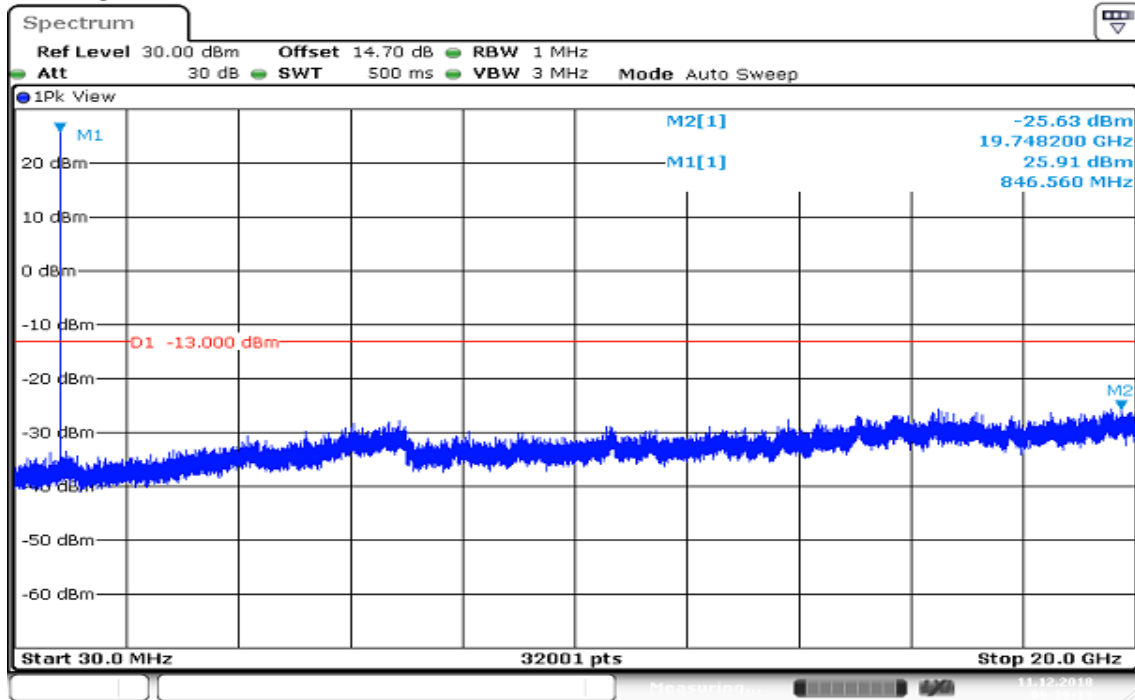
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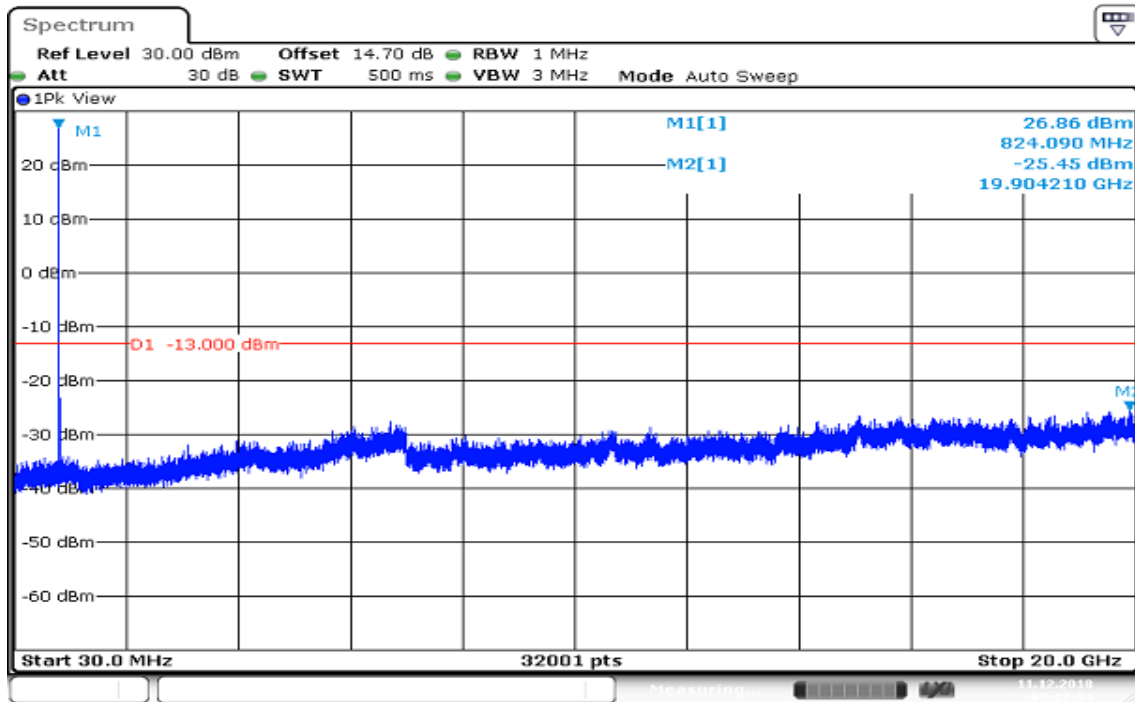
CH High



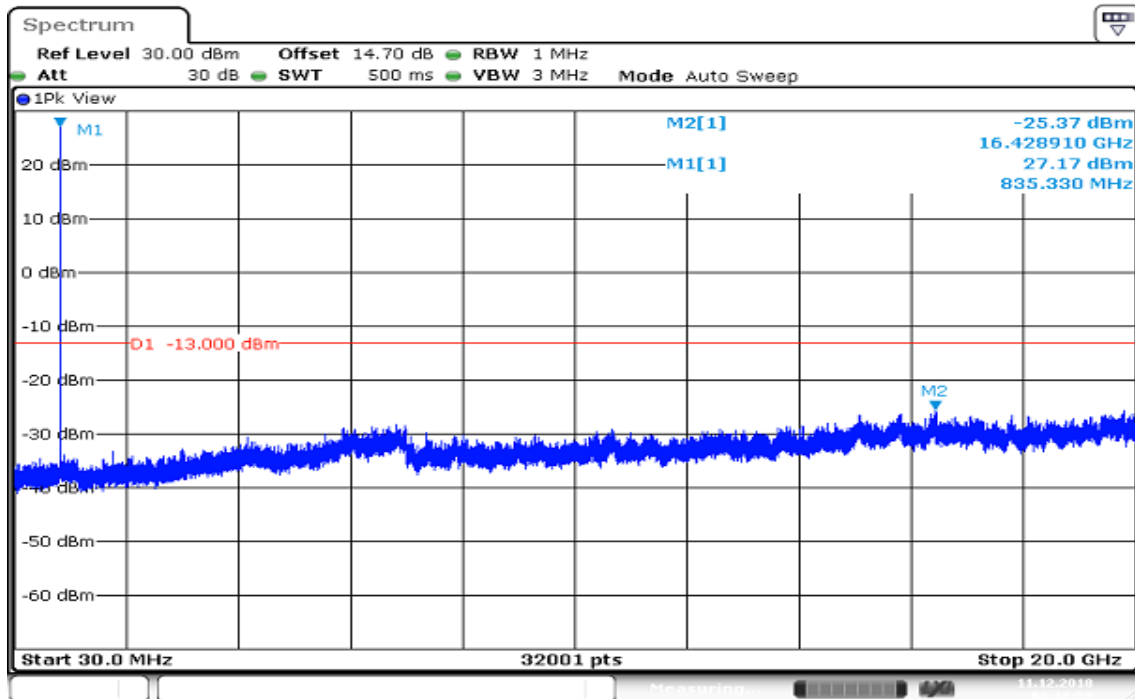
Date: 11 DEC 2018 09:29:13

Report No.: T181123D04-RP4

CHANNEL BANDWIDTH: 3MHz / 16QAM CH Low



CH Mid

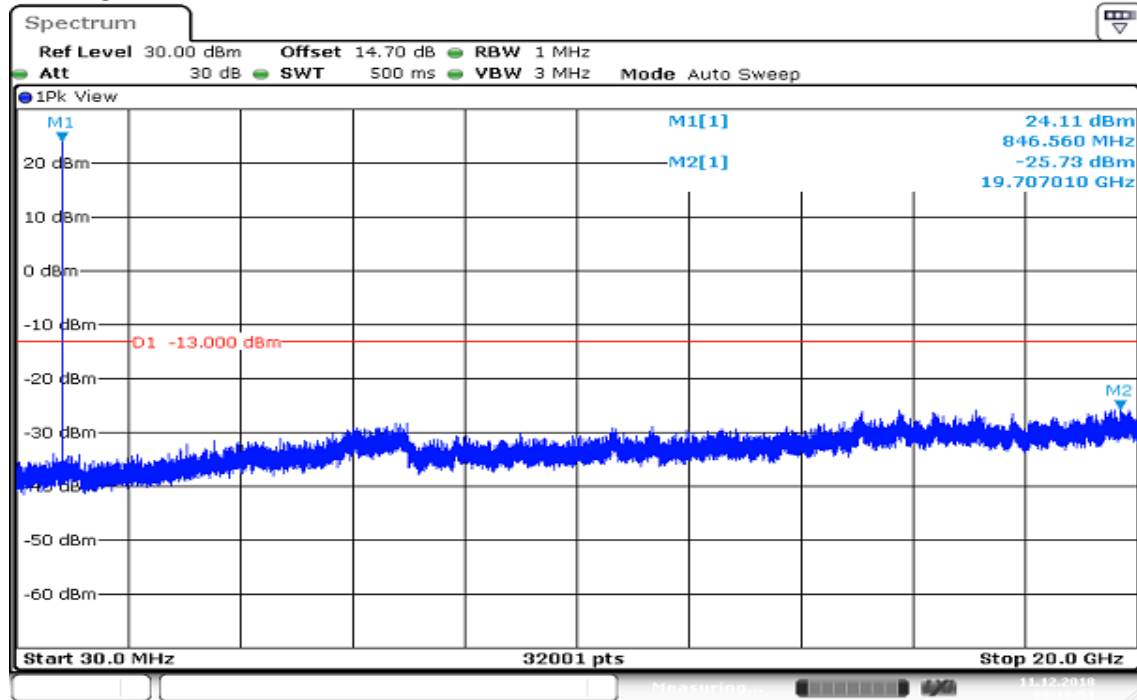




Report No.: T181123D04-RP4

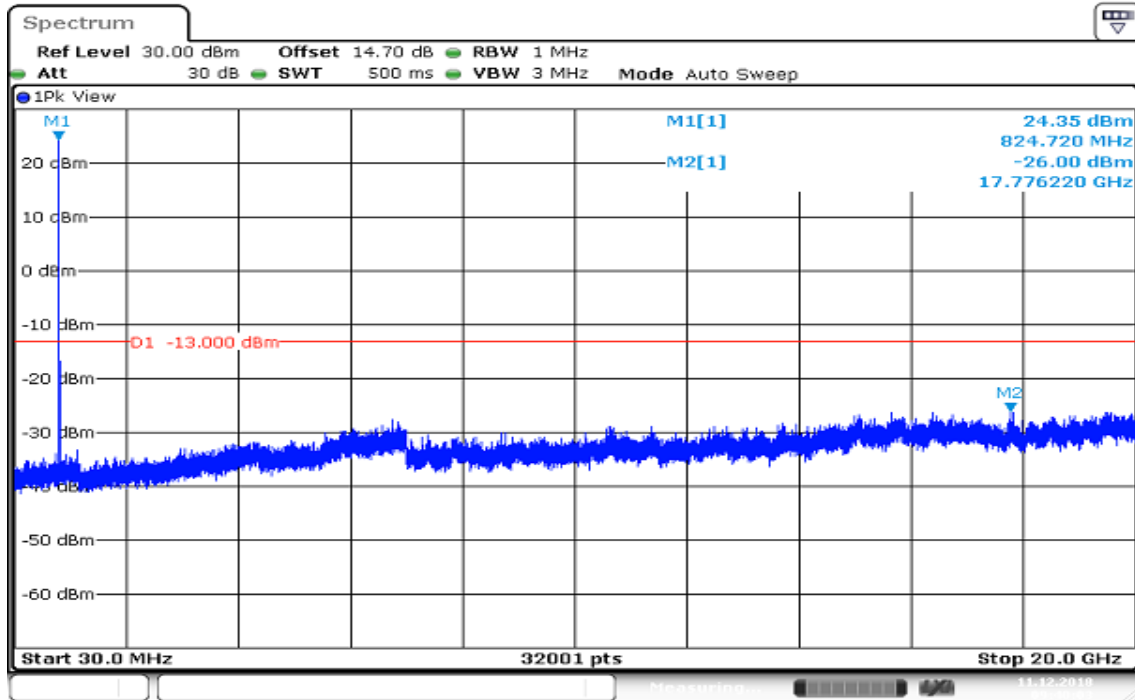
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CH High

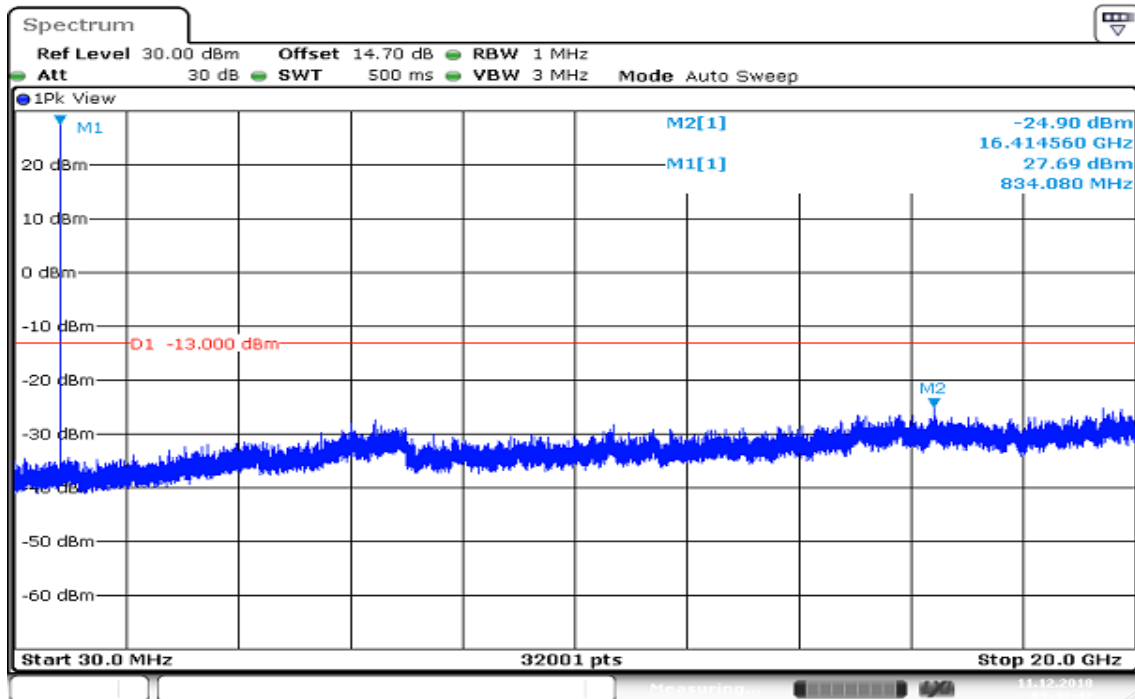


Date: 11 DEC 2018 09:19:51

CHANNEL BANDWIDTH: 5MHz / QPSK CH Low



CH Mid

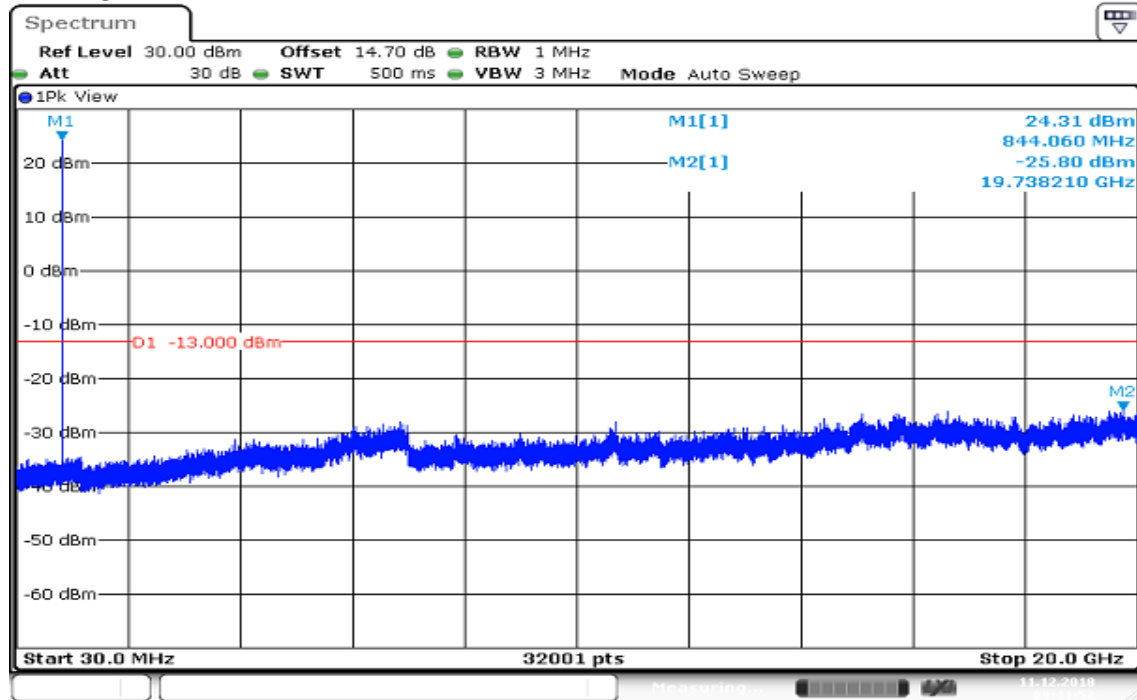




Report No.: T181123D04-RP4

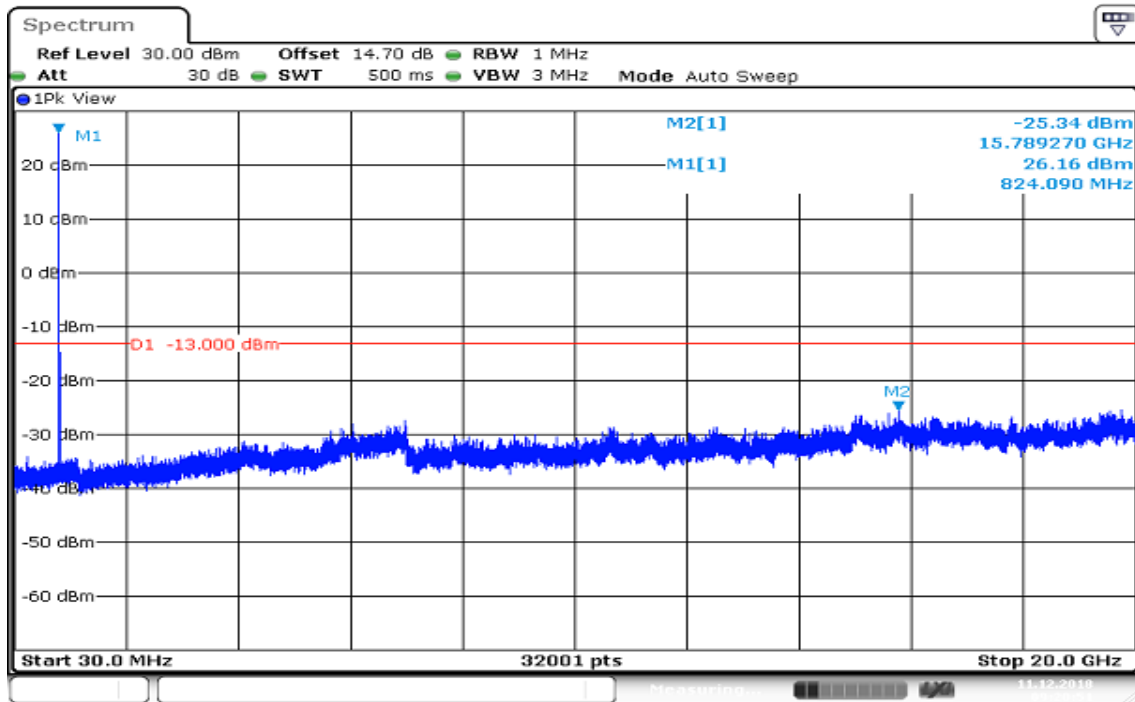
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CH High



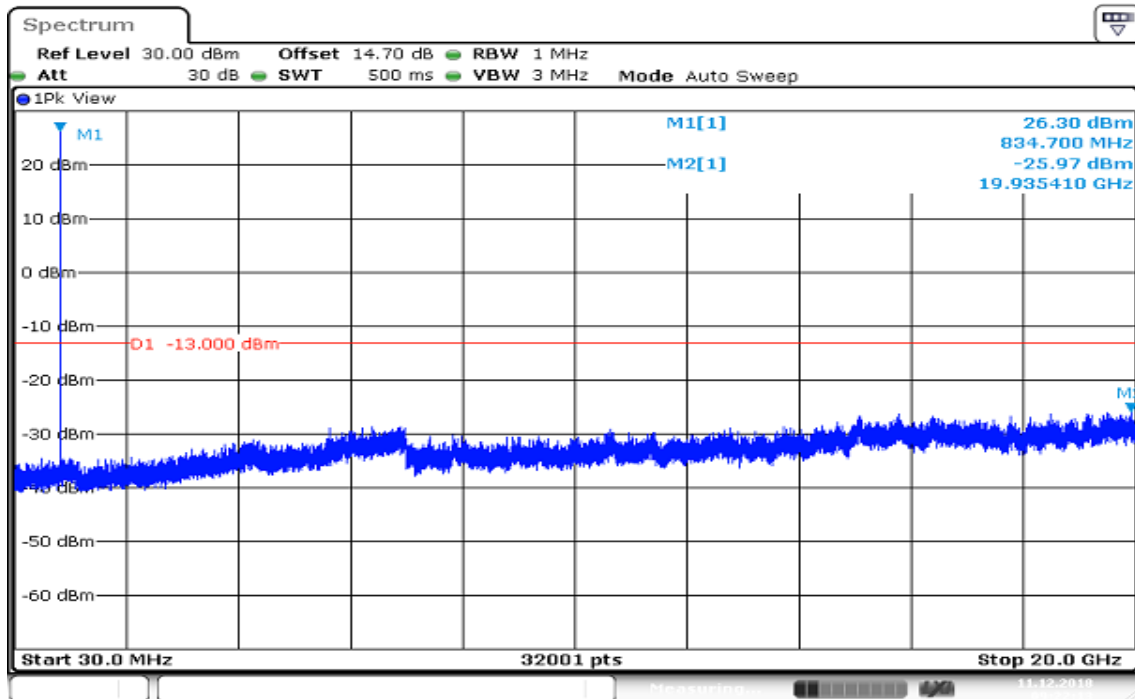
Report No.: T181123D04-RP4

CHANNEL BANDWIDTH: 5MHz / 16QAM CH Low



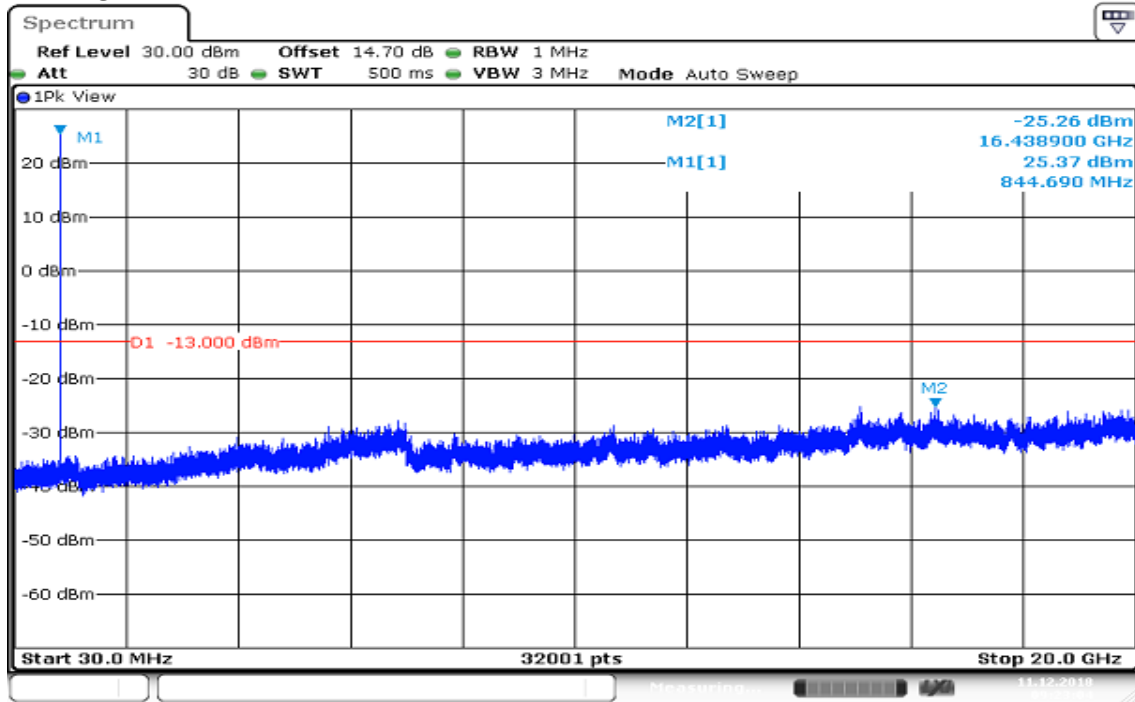
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CH Mid



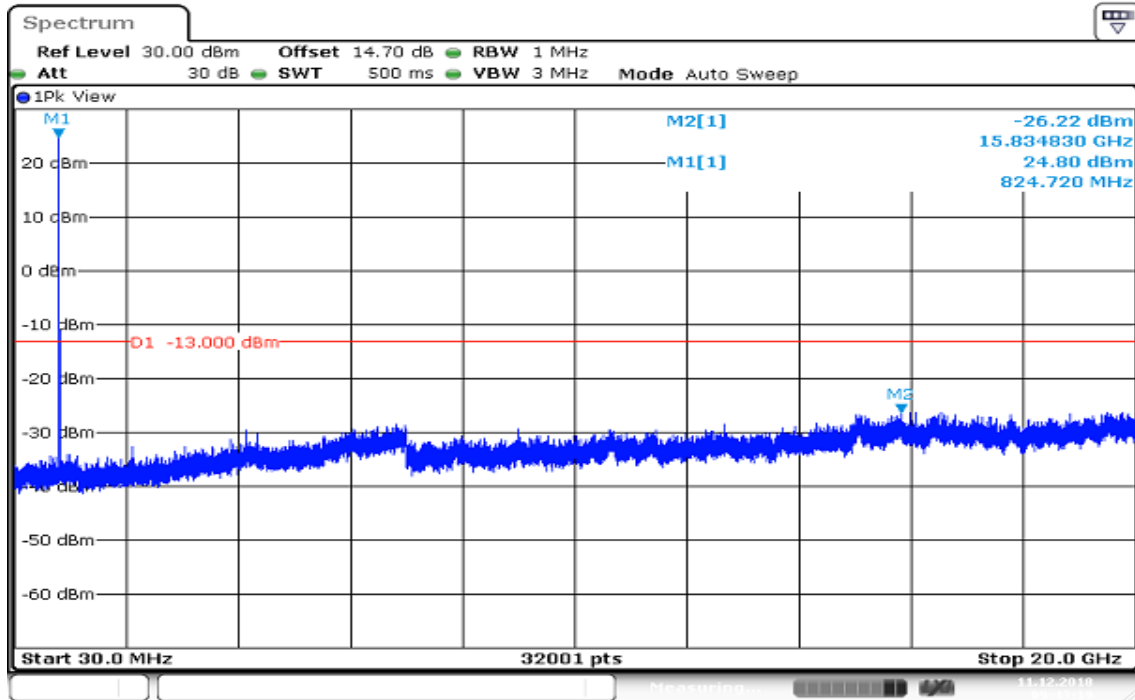
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CH High

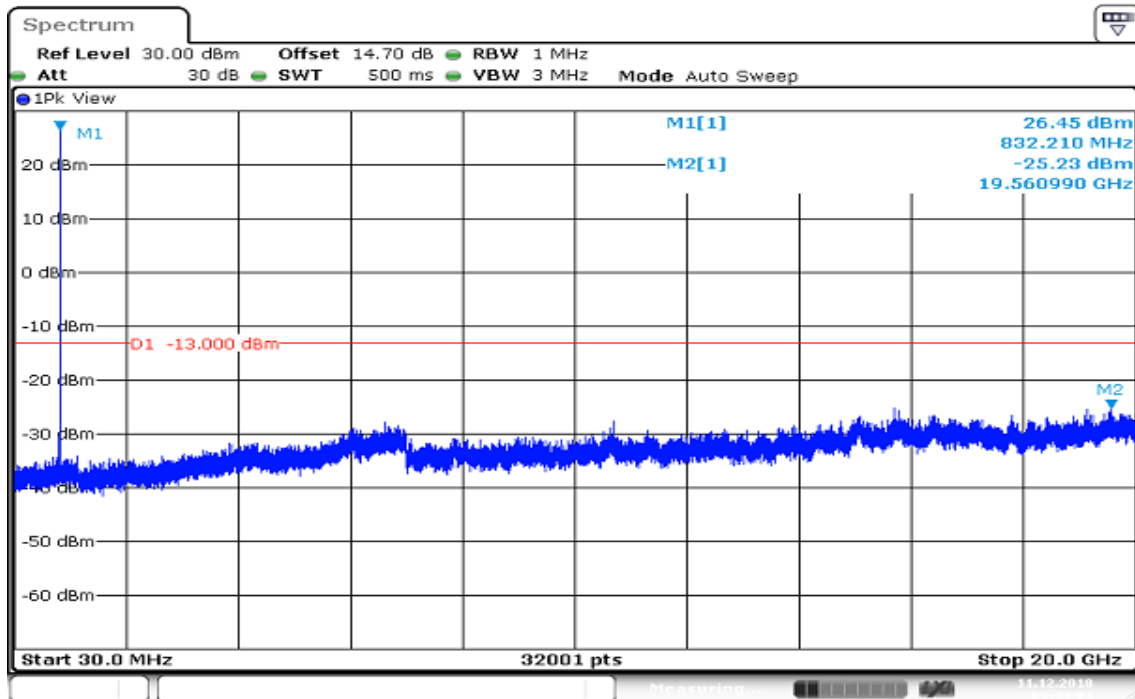


Date: 11 DEC 2018 09:23:05

CHANNEL BANDWIDTH: 10MHz / QPSK CH Low



CH Mid

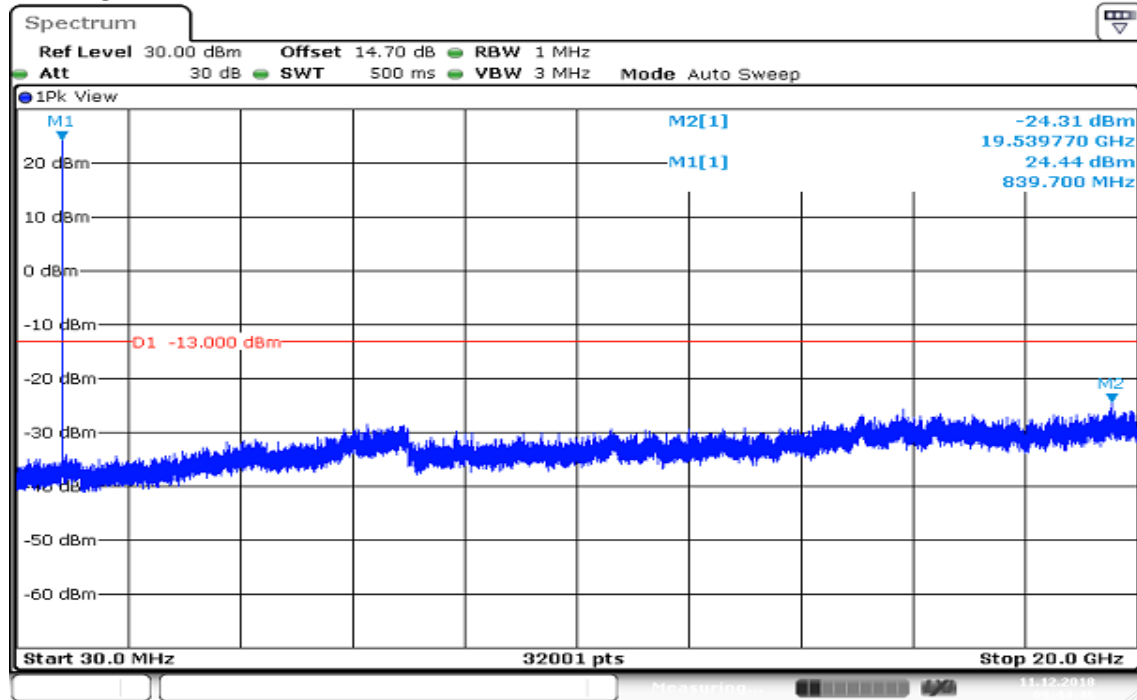




Report No.: T181123D04-RP4

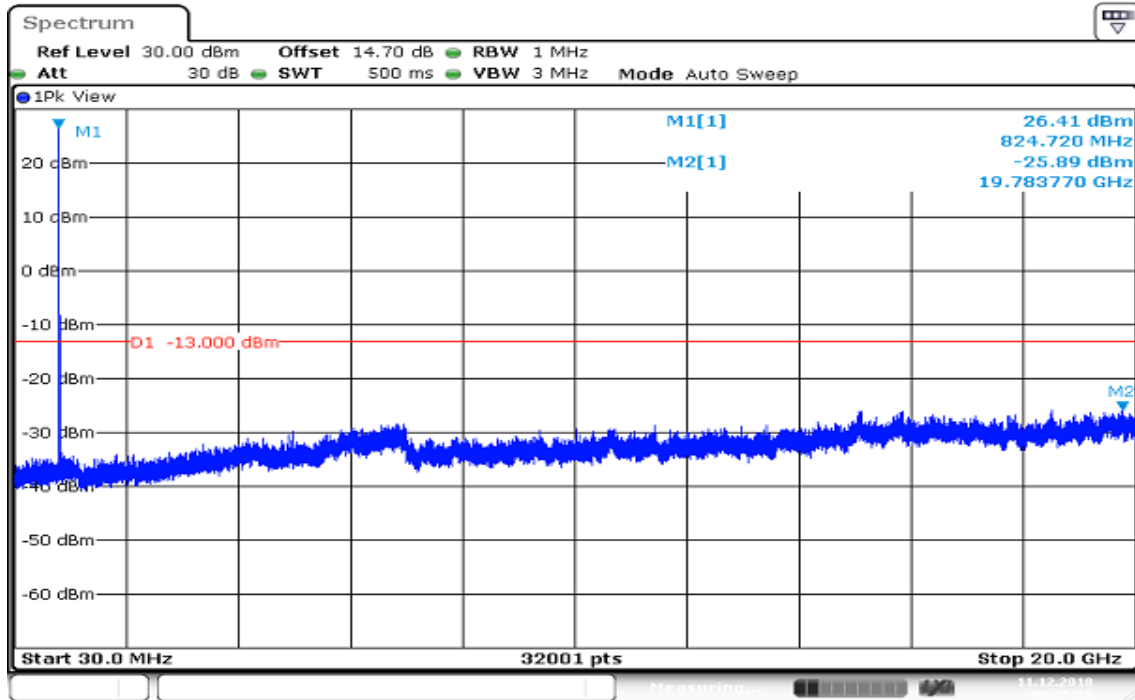
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CH High

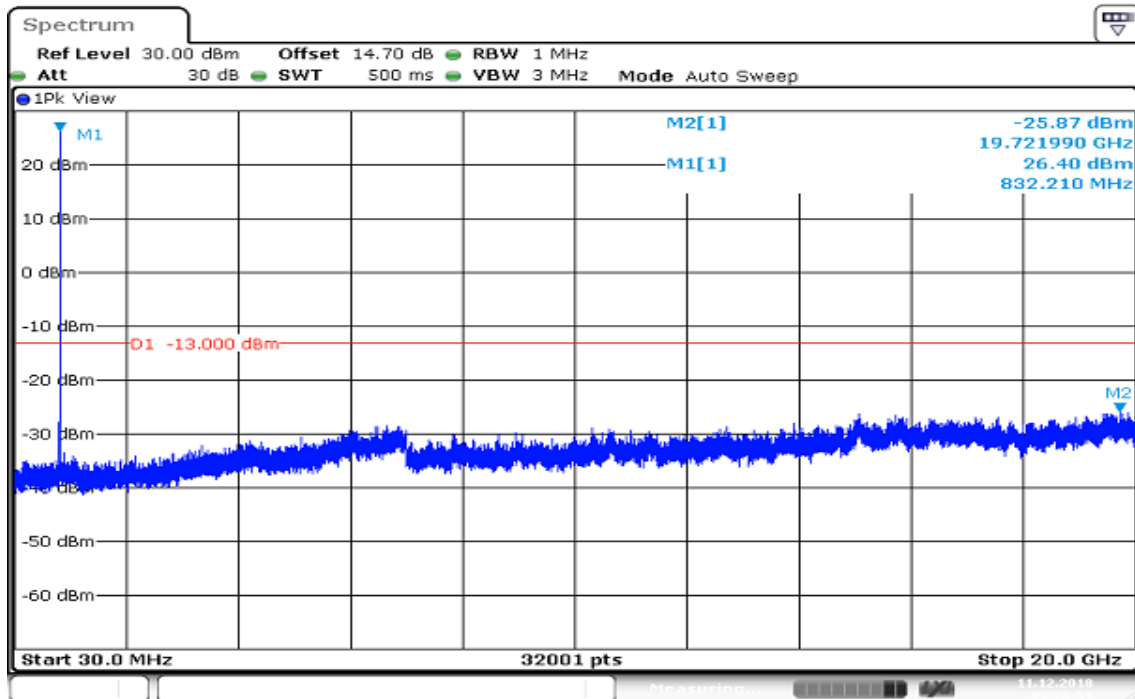


Date: 11 DEC 2018 09:44:47

CHANNEL BANDWIDTH: 10MHz / 16QAM CH Low



CH Mid

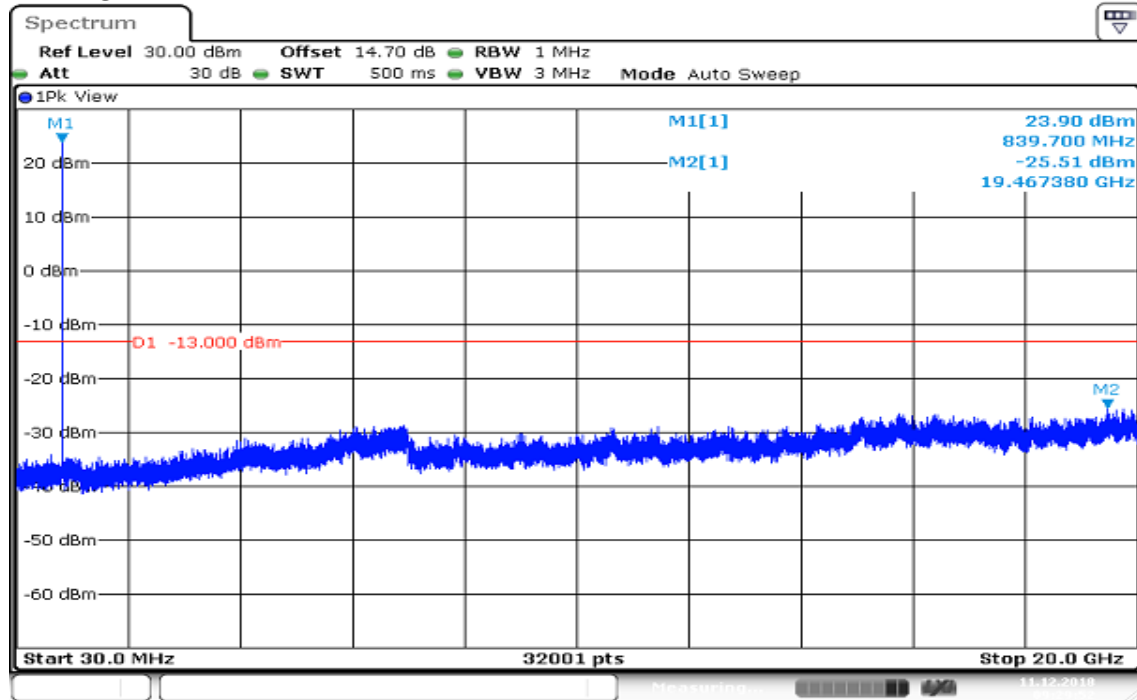




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CH High

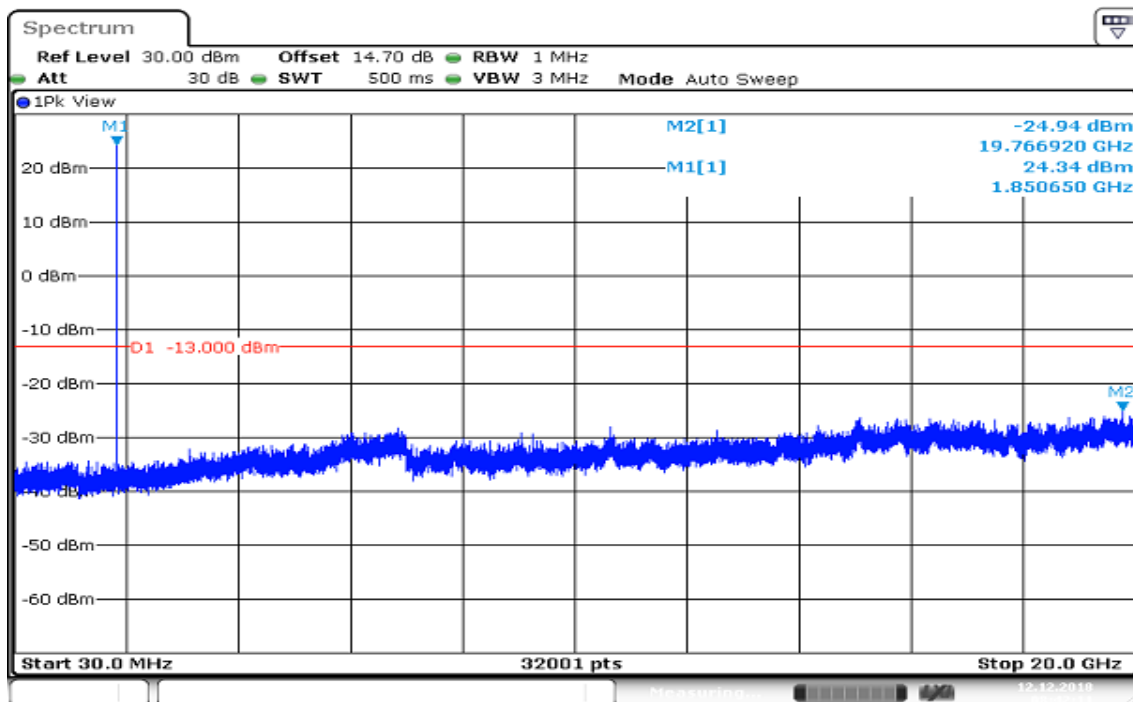


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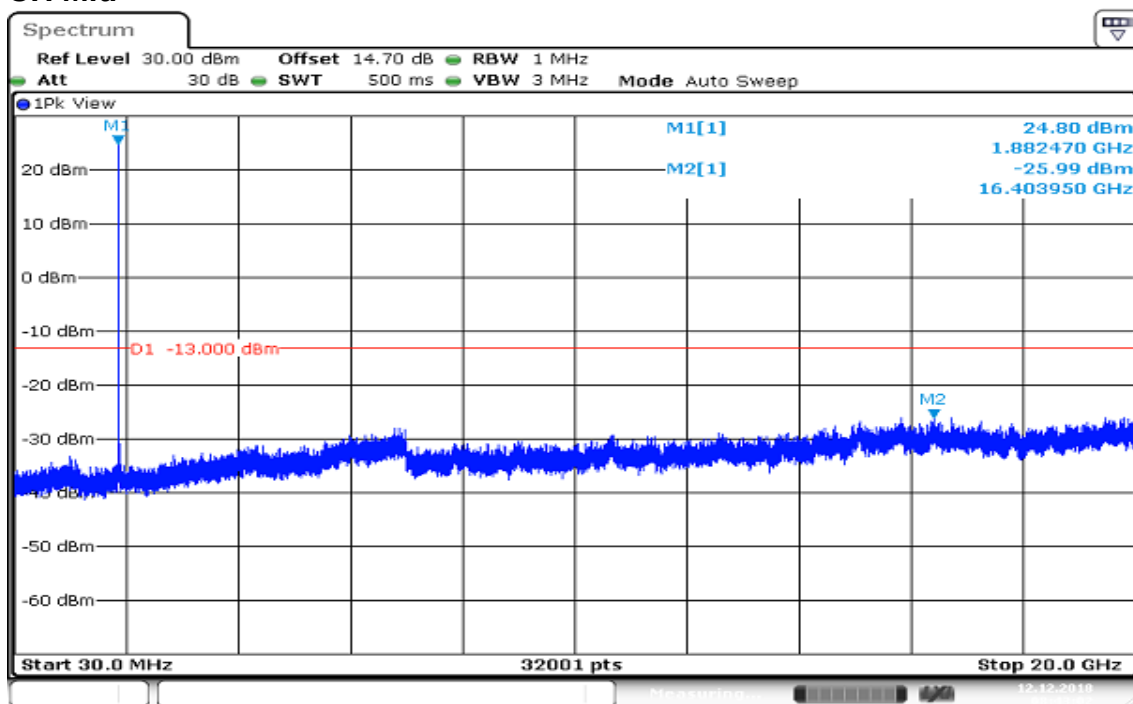
LTE Band 25

CHANNEL BANDWIDTH: 1.4MHz / QPSK

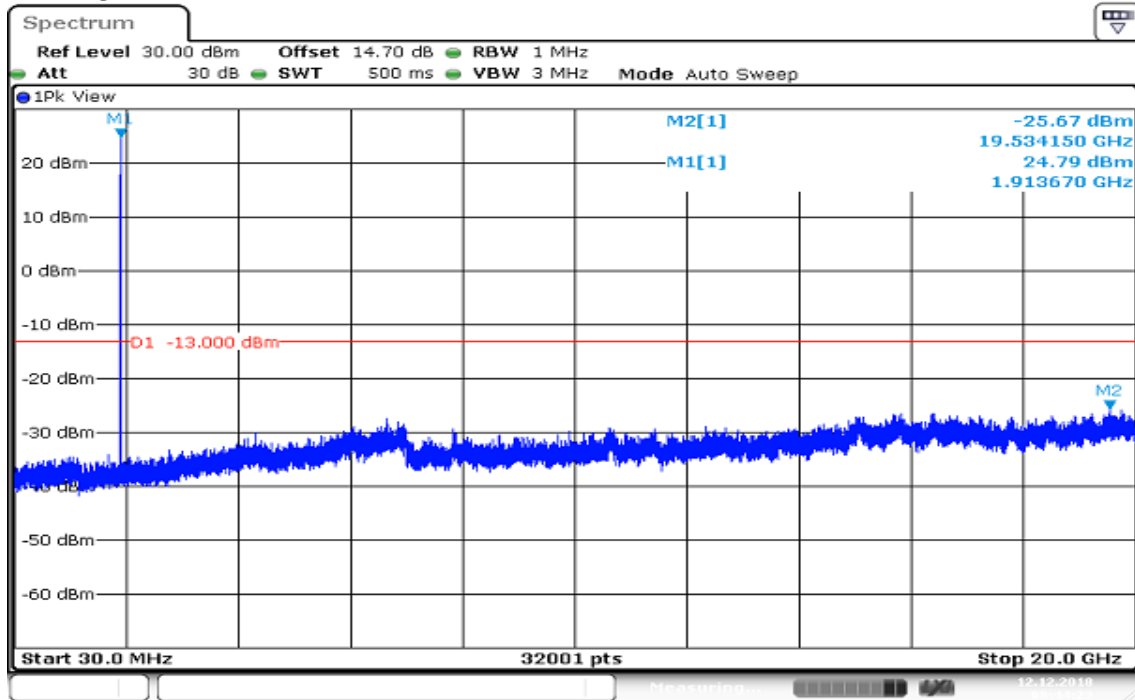
CH Low



CH Mid



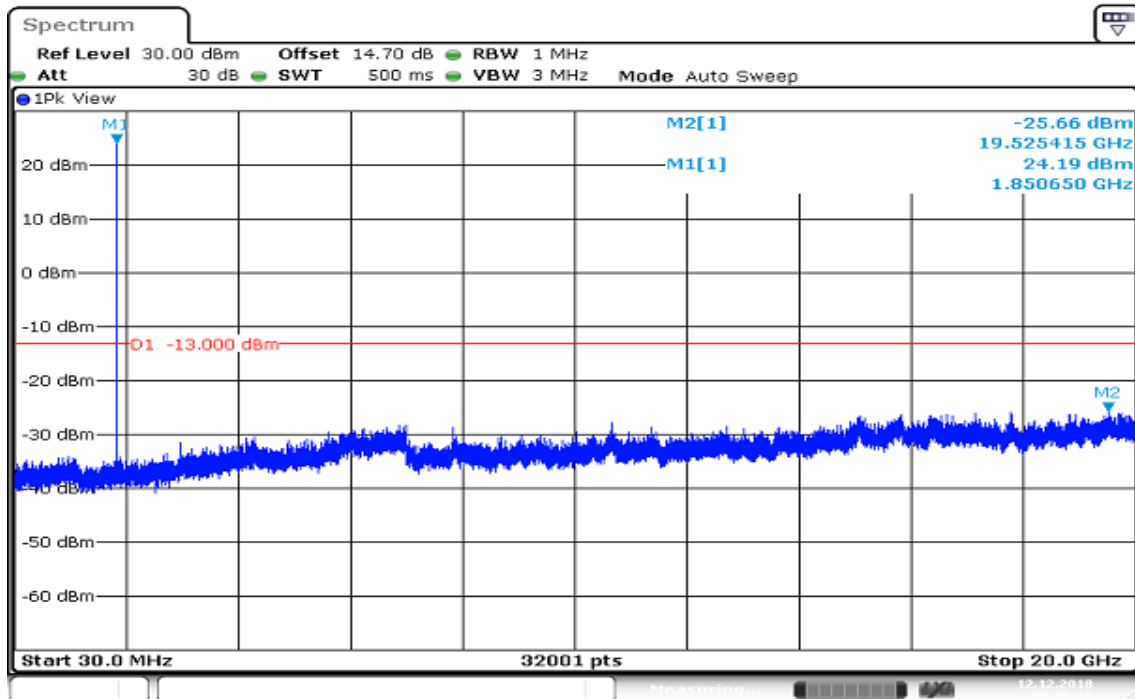
CH High



Date: 12 DEC 2018 08:44:23

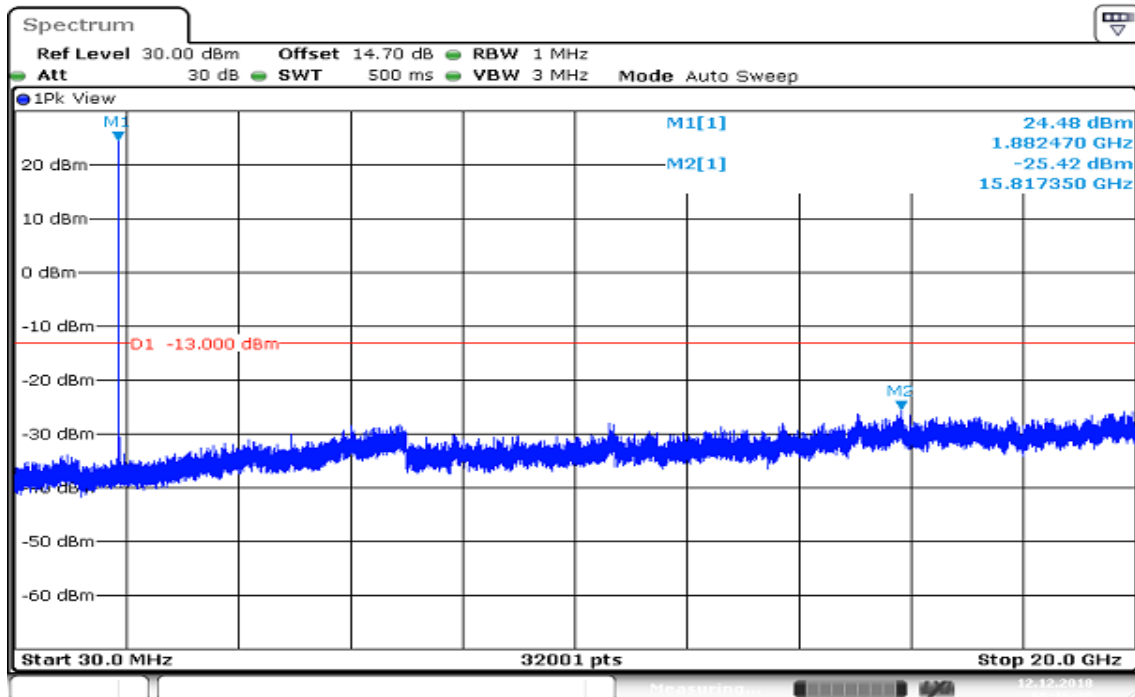
Report No.: T181123D04-RP4

CHANNEL BANDWIDTH: 1.4MHz / 16QAM CH Low



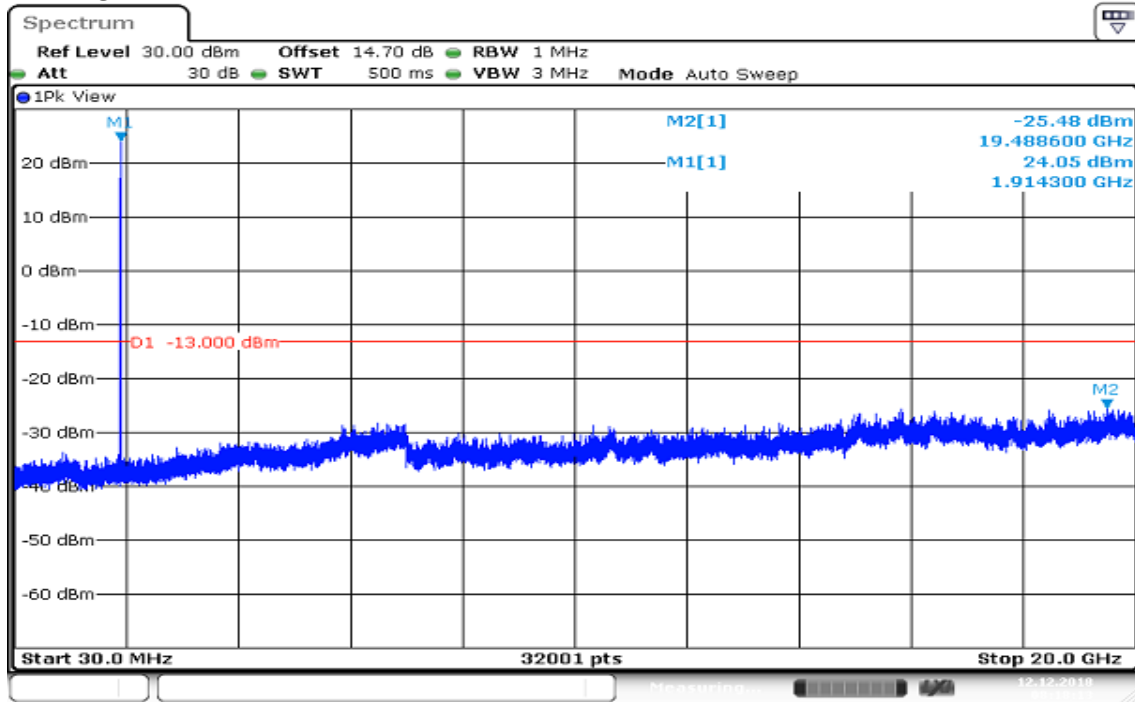
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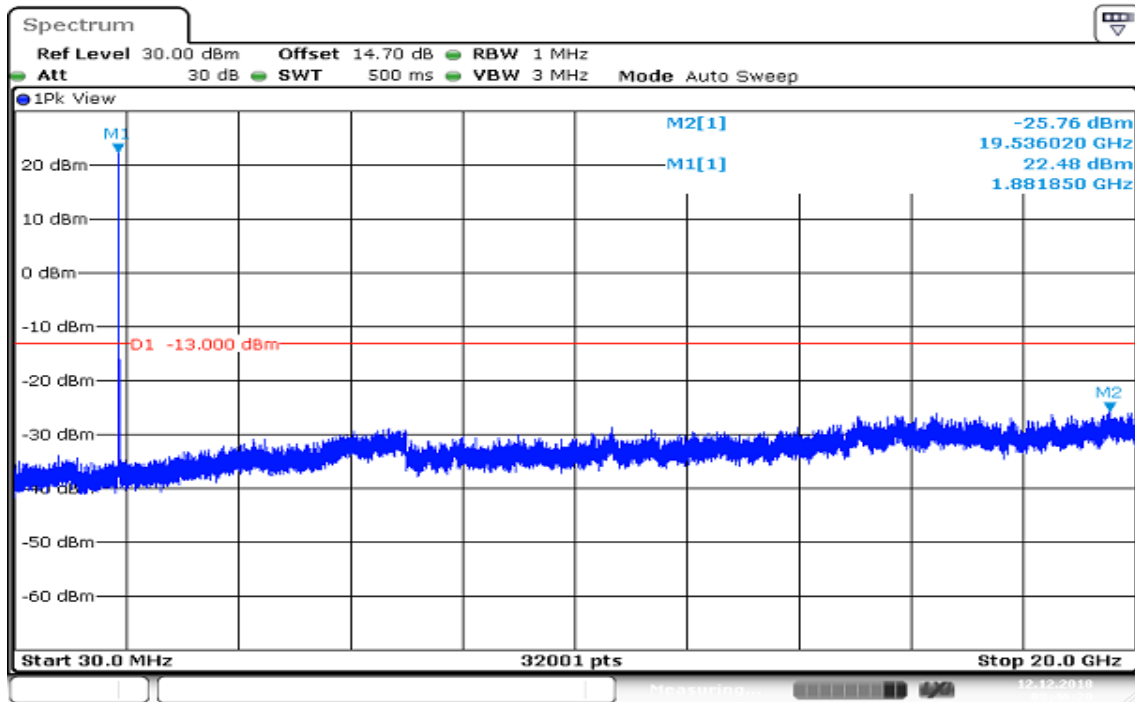
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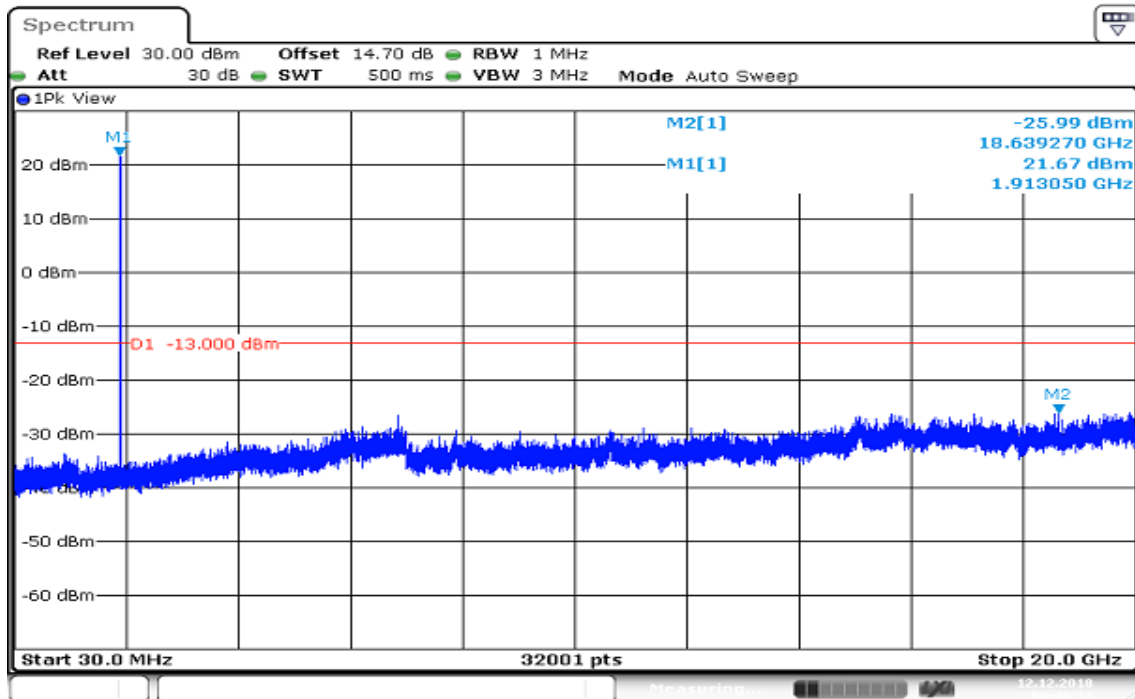
Report No.: T181123D04-RP4

CHANNEL BANDWIDTH: 3MHz / QPSK CH Low



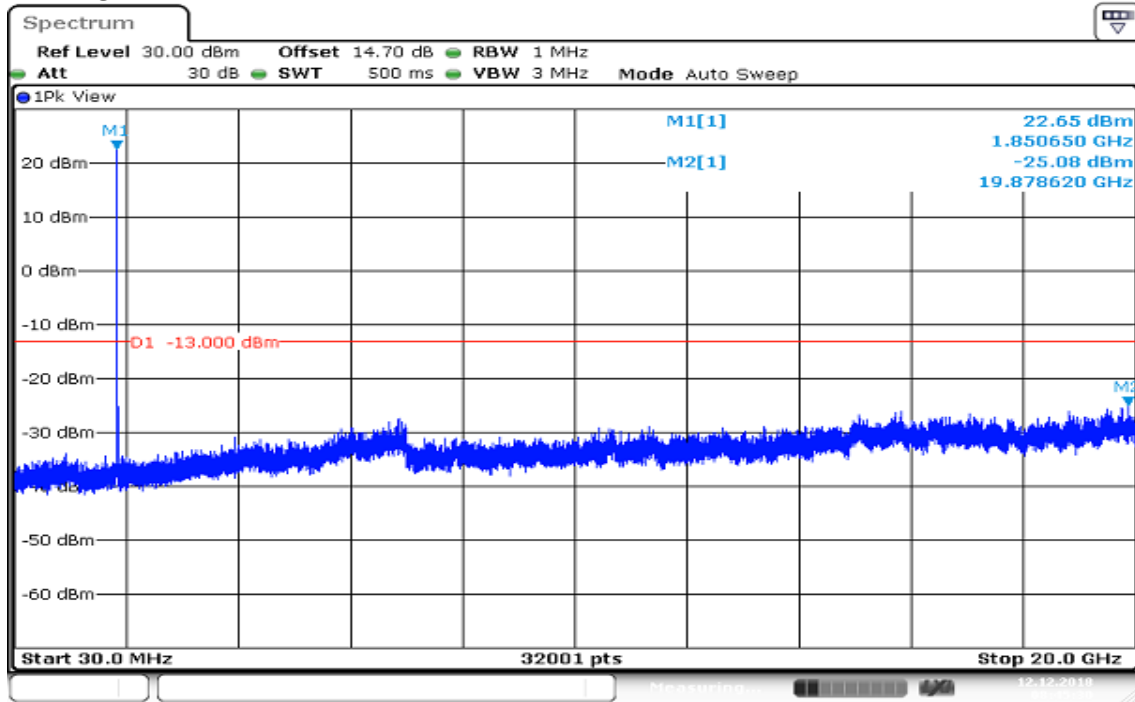
Date: 12 DEC 2018 08:46:21

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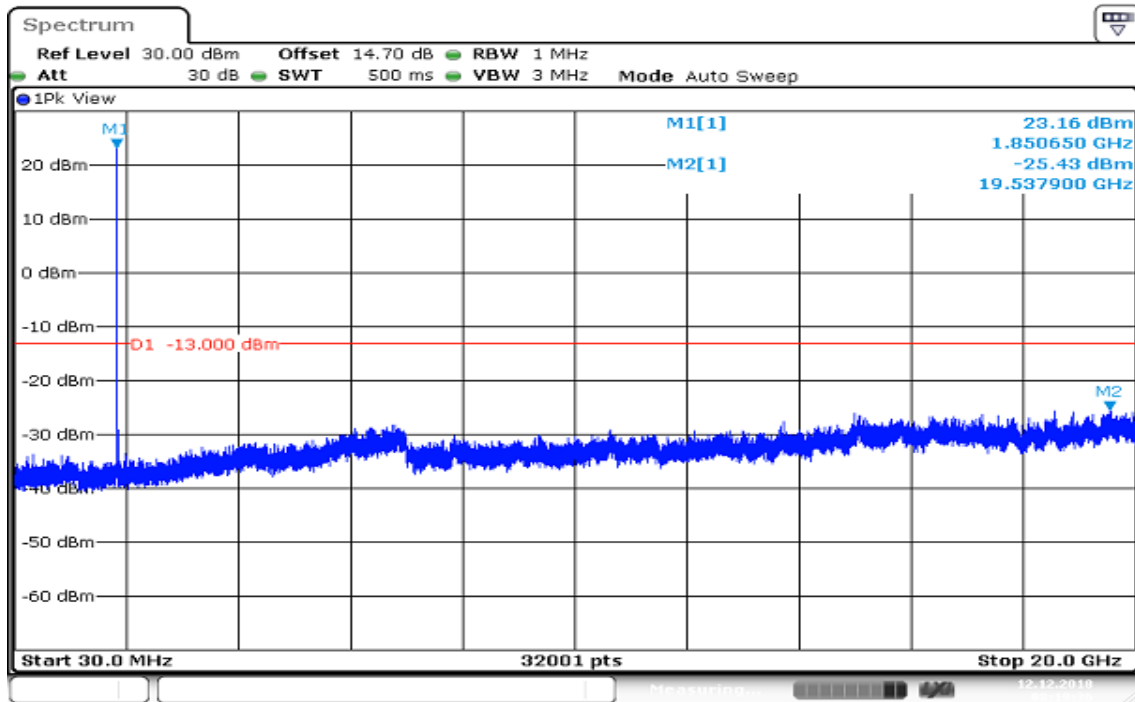
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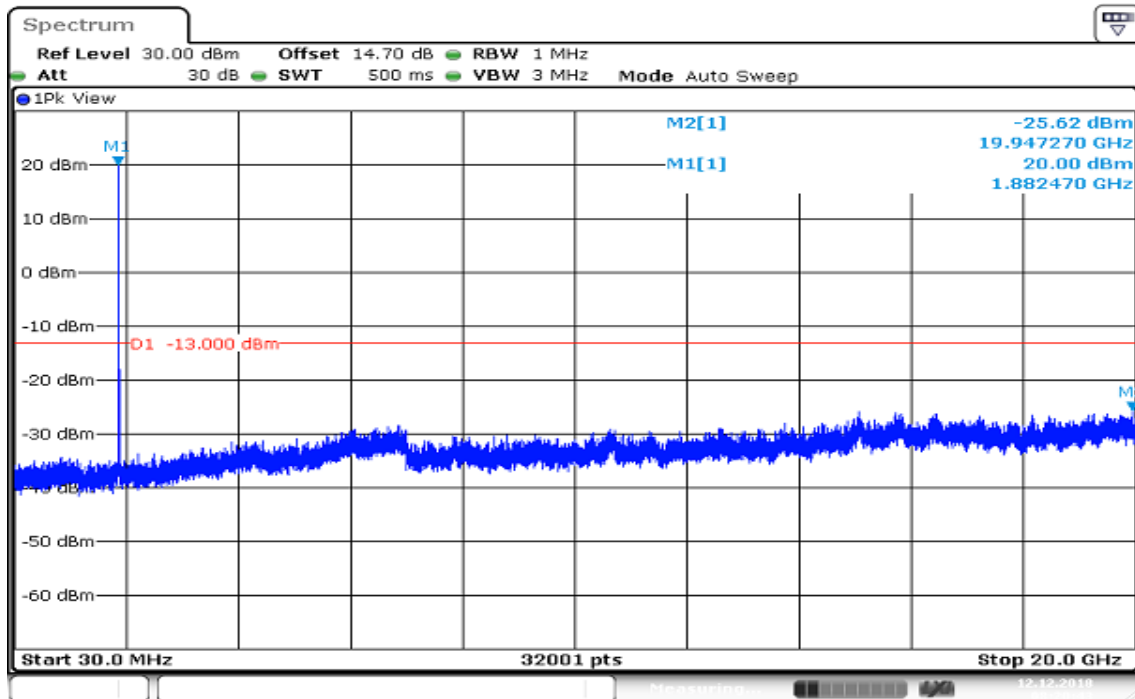
Report No.: T181123D04-RP4

CHANNEL BANDWIDTH: 3MHz / 16QAM CH Low



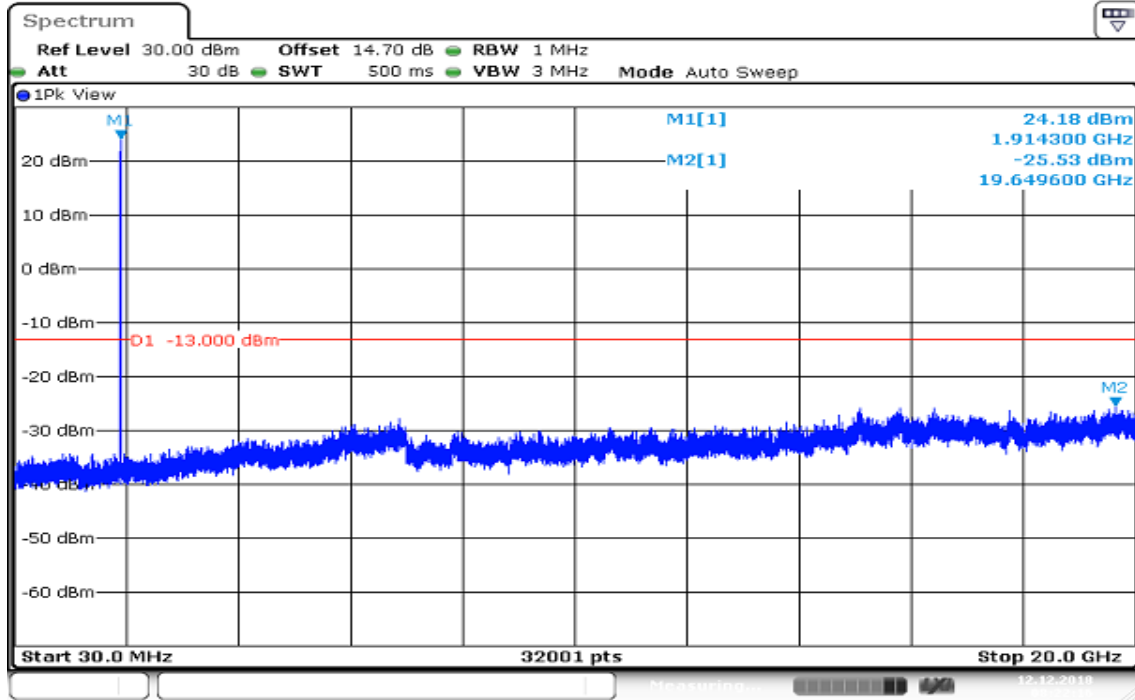
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CH Mid



Date: 12 DEC 2018 08:20:44

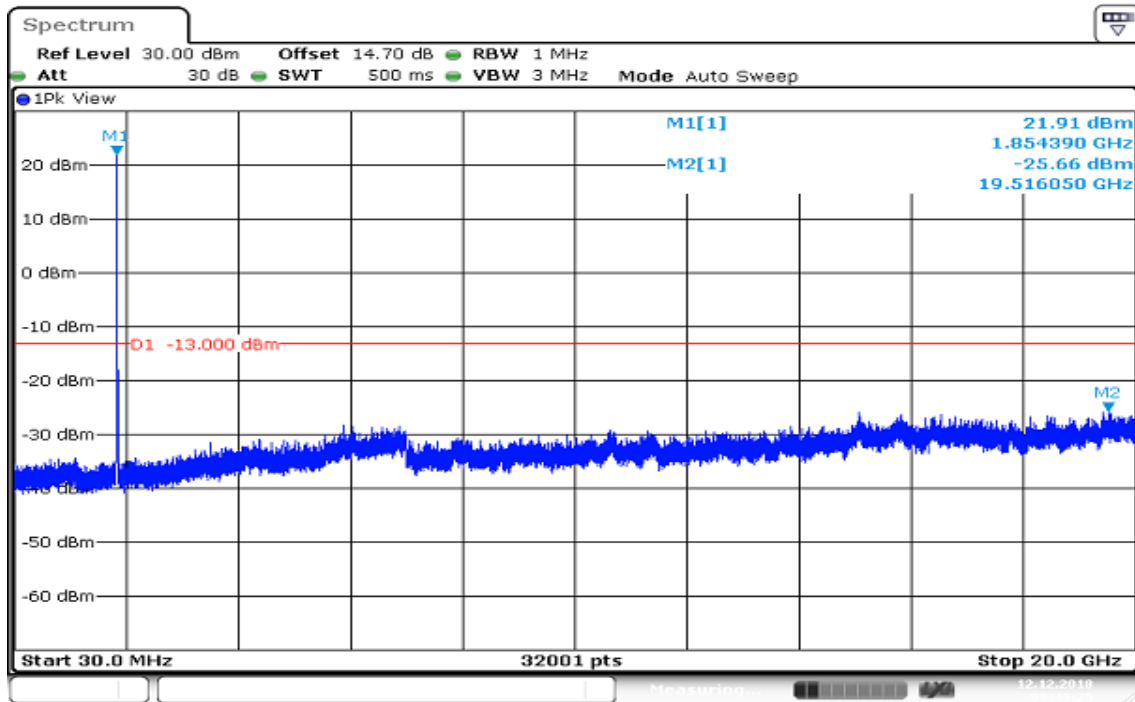
CH High



Date: 12 DEC 2018 08:22:17

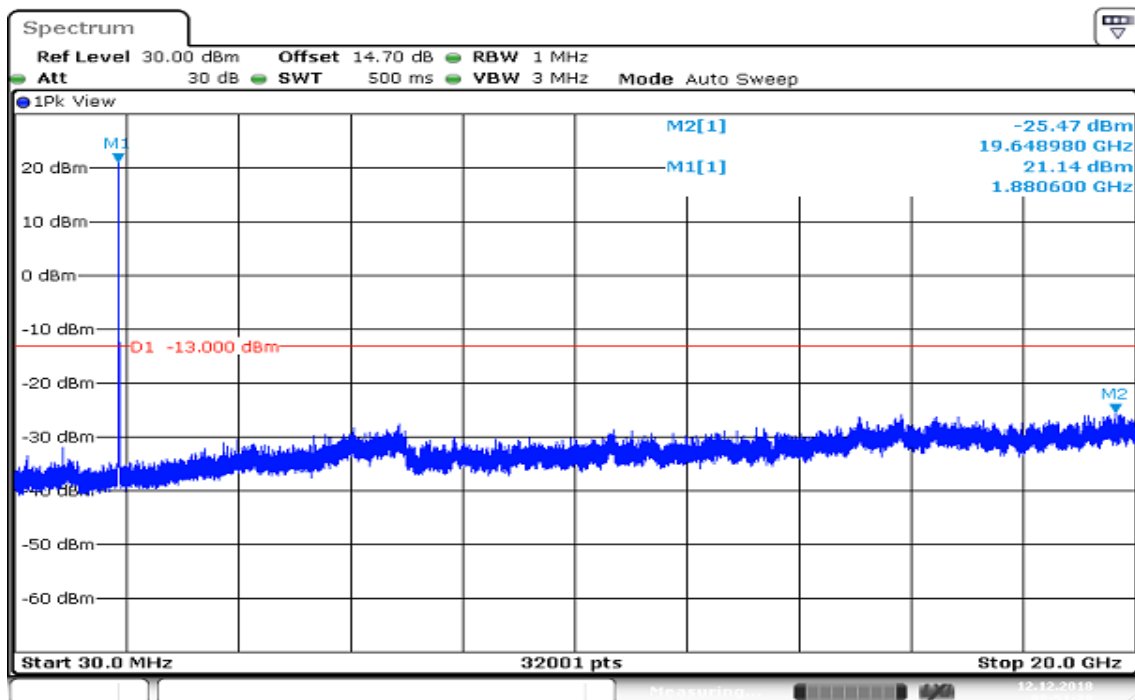
Report No.: T181123D04-RP4

CHANNEL BANDWIDTH: 5MHz / QPSK CH Low



Date: 12 DEC 2018 08:49:26

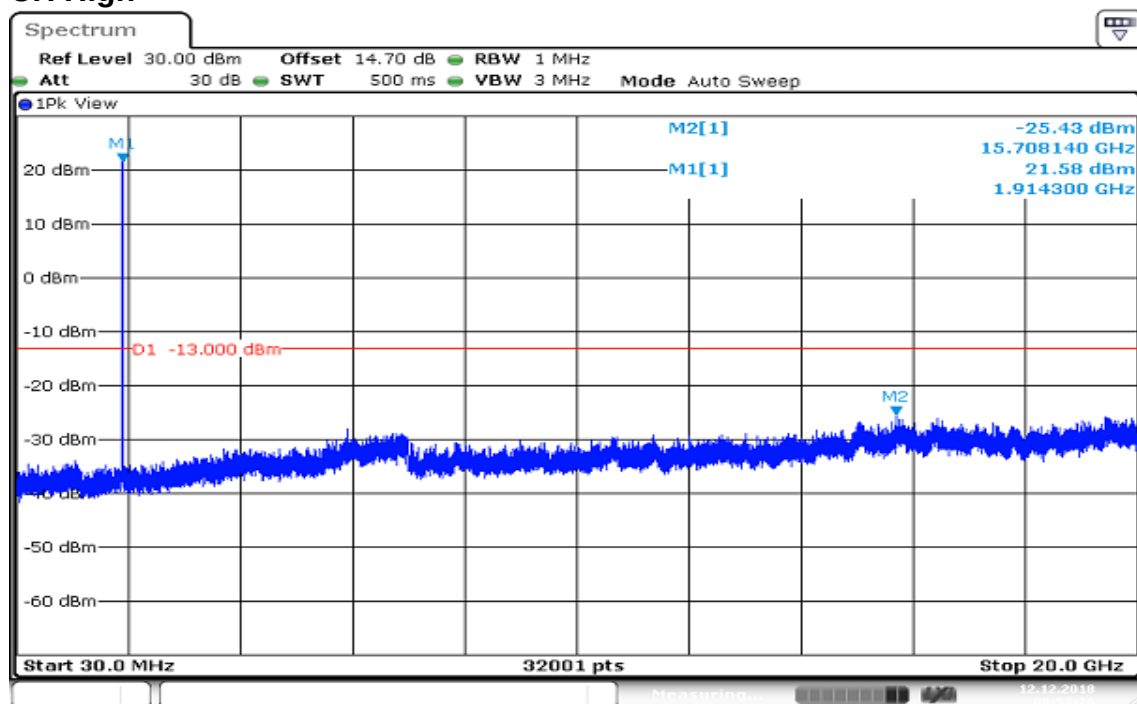
CH Mid



Date: 12 DEC 2018 08:51:39

Report No.: T181123D04-RP4

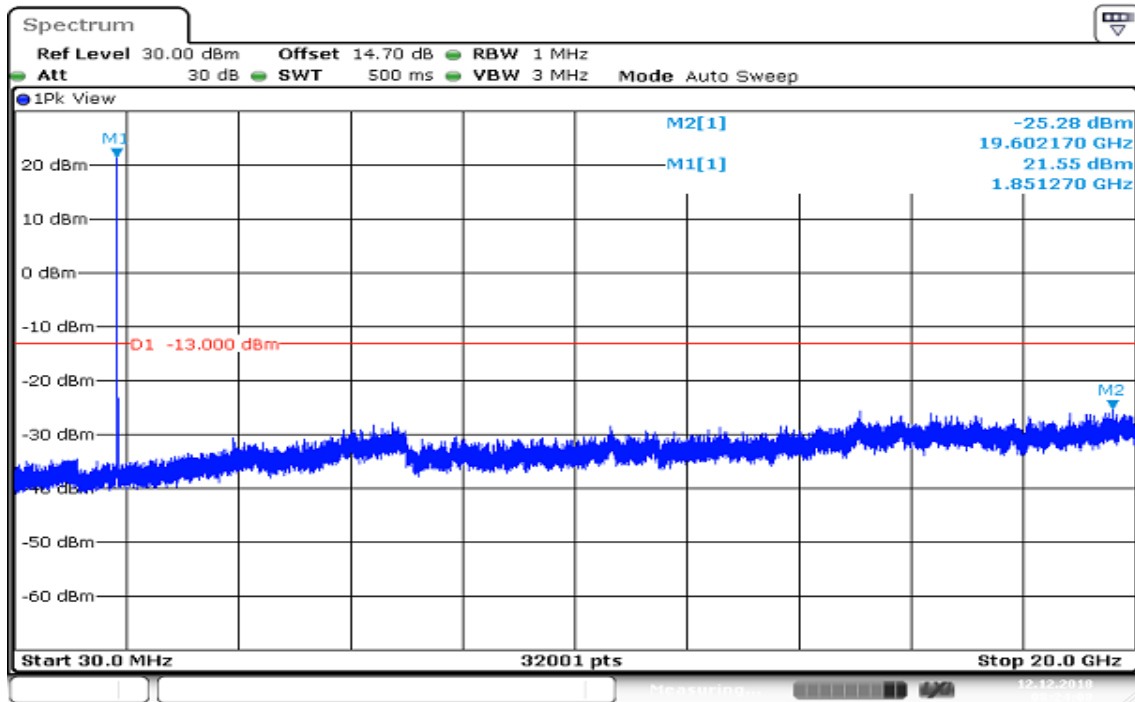
CH High



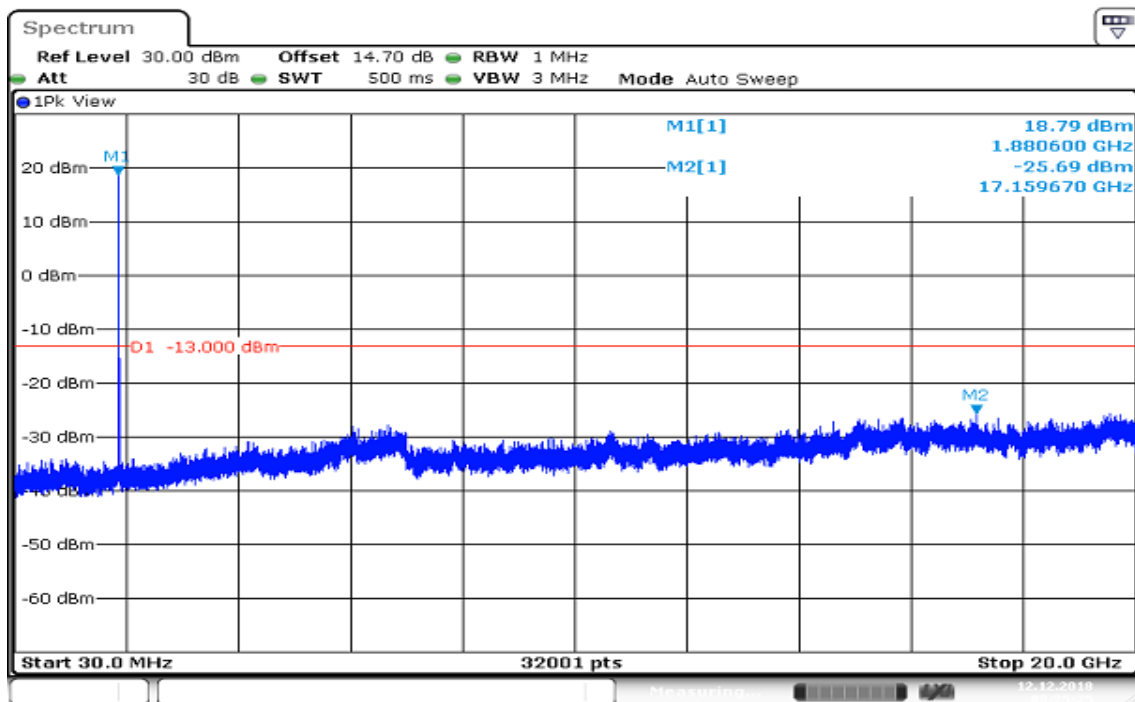
Date: 12 DEC 2018 08:52:27

Report No.: T181123D04-RP4

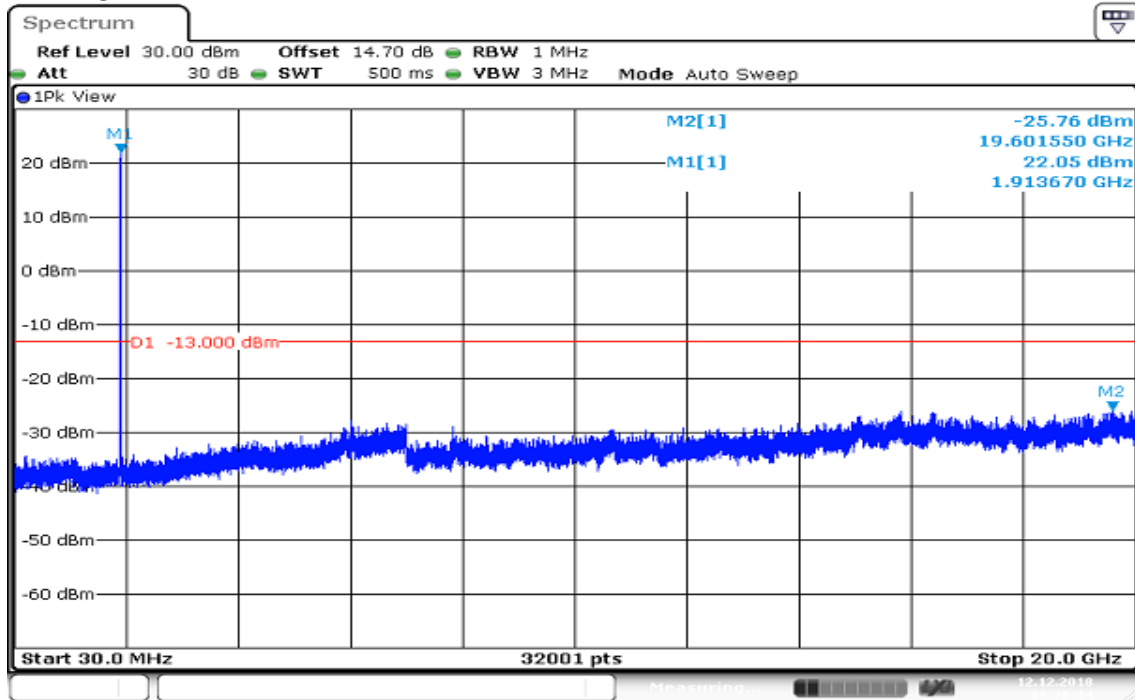
CHANNEL BANDWIDTH: 5MHz / 16QAM CH Low



CH Mid



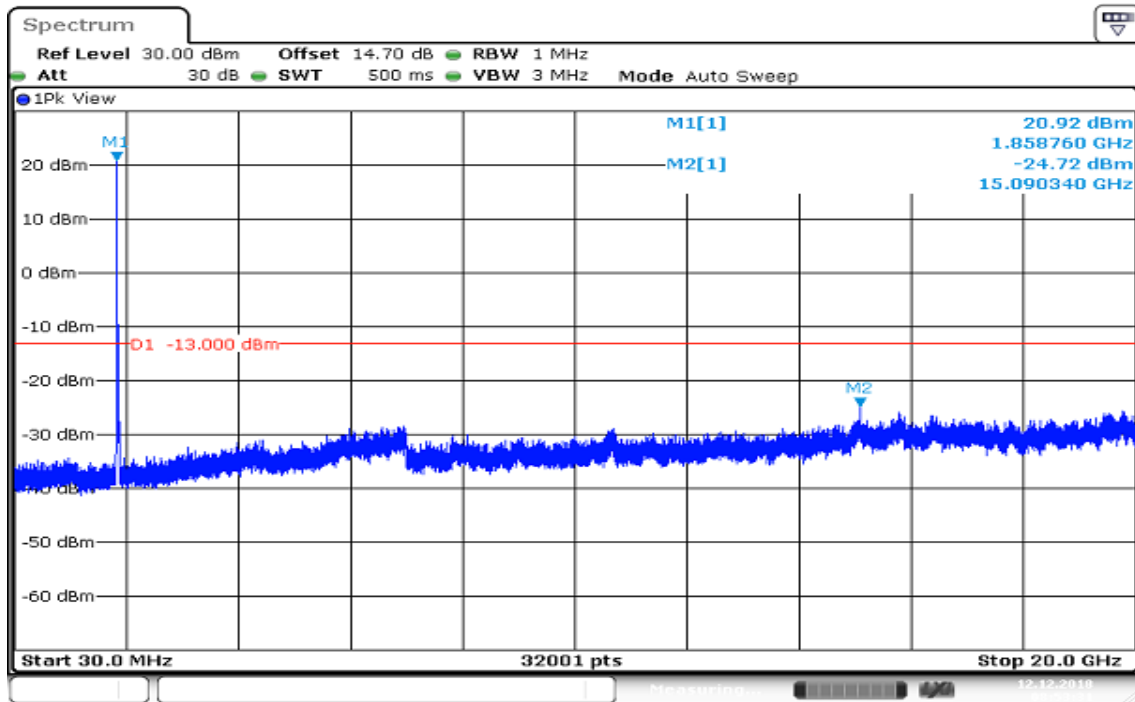
CH High



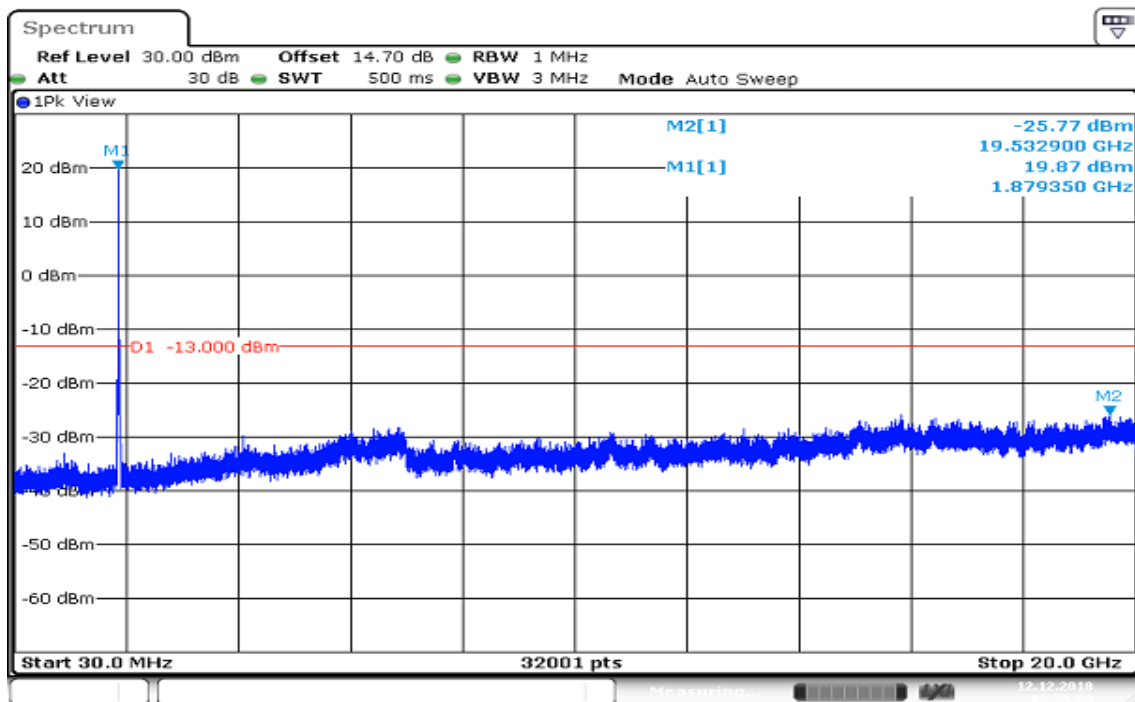
Date: 12 DEC 2018 08:26:24

Report No.: T181123D04-RP4

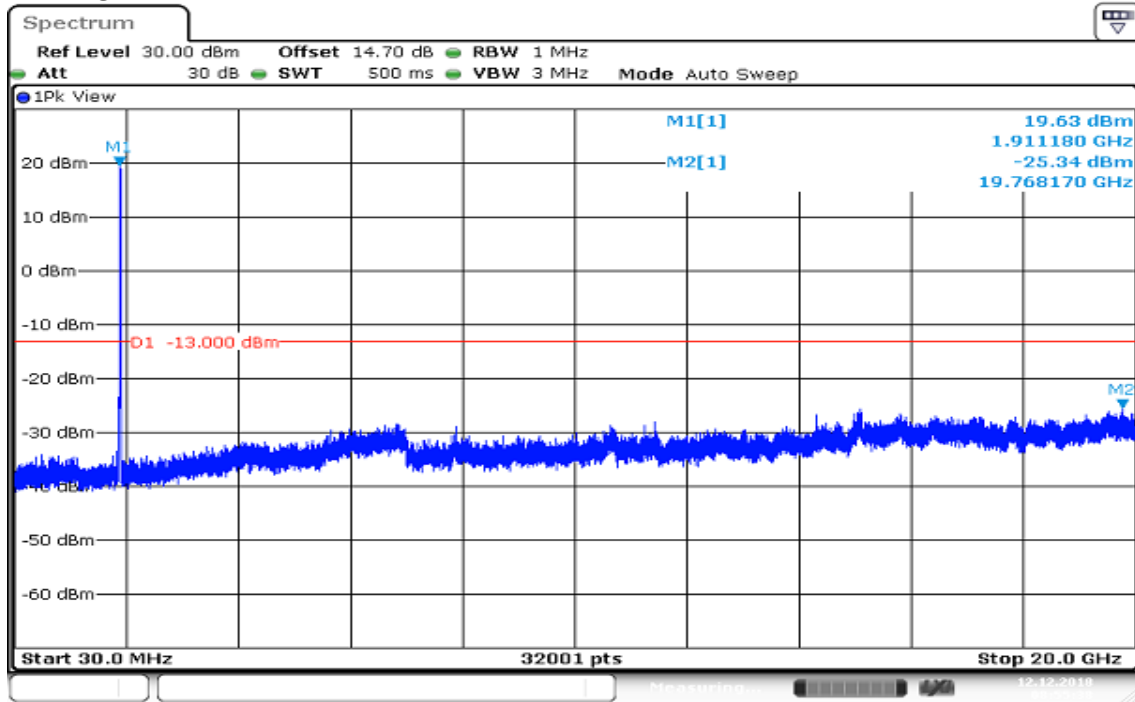
CHANNEL BANDWIDTH: 10MHz / QPSK CH Low



CH Mid



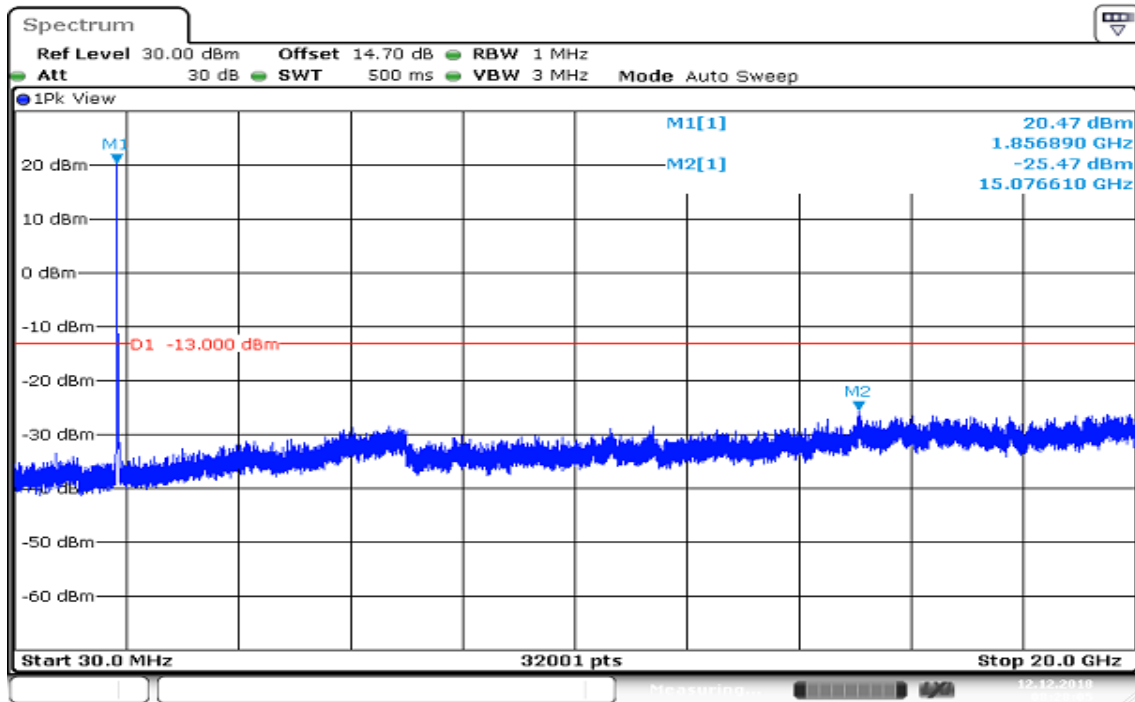
CH High



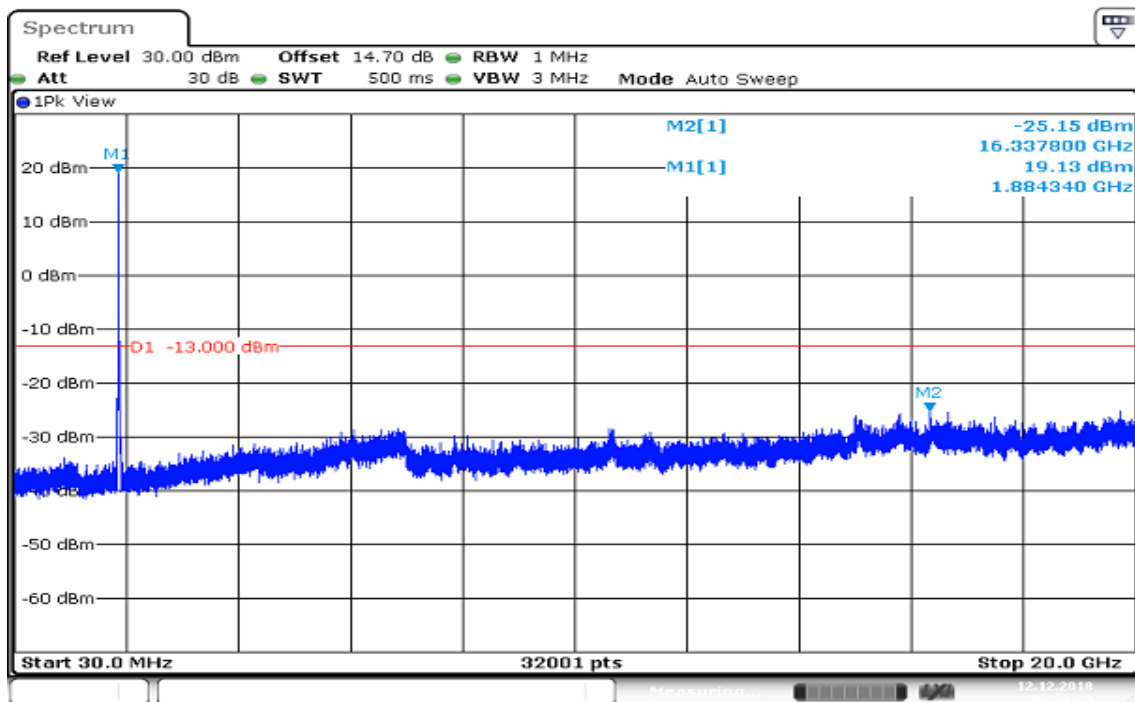
Date: 12 DEC 2018 08:55:29

Report No.: T181123D04-RP4

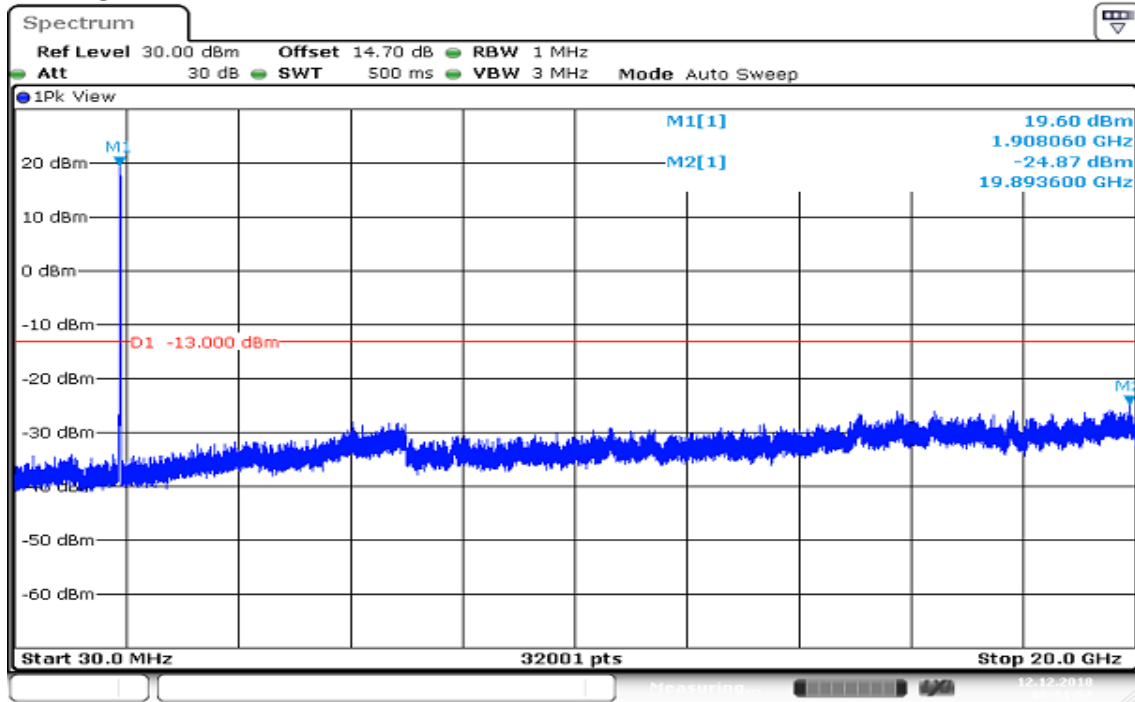
CHANNEL BANDWIDTH: 10MHz / 16QAM CH Low



CH Mid



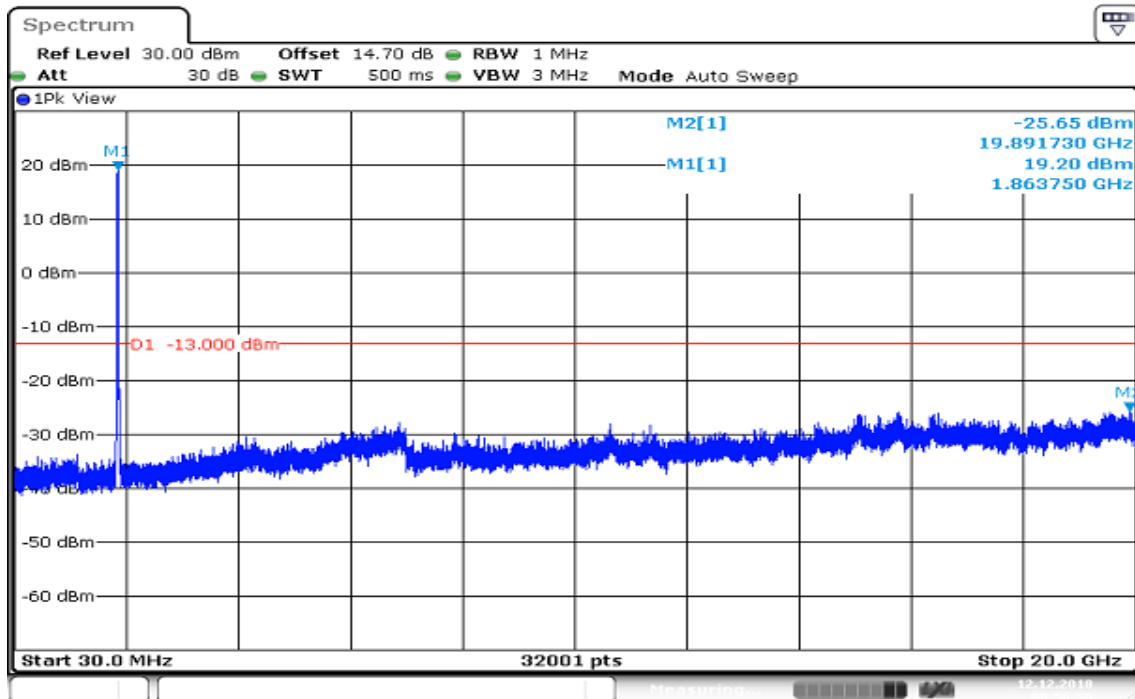
CH High



Date: 12 DEC 2018 08:21:58

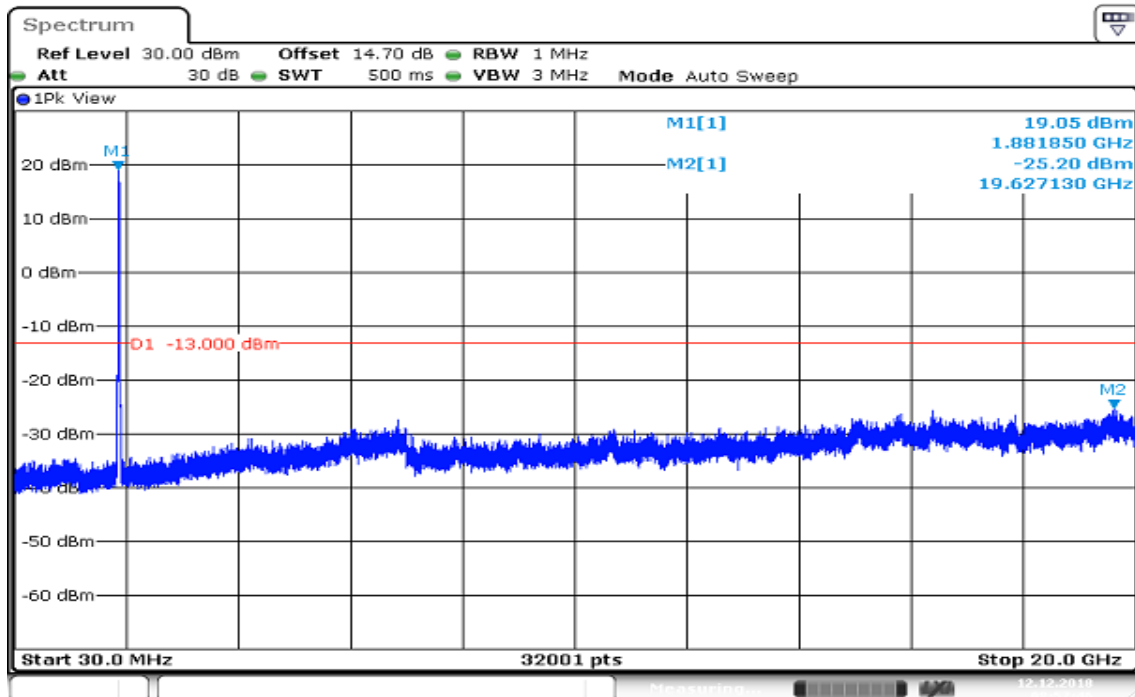
Report No.: T181123D04-RP4

CHANNEL BANDWIDTH: 15MHz / QPSK CH Low



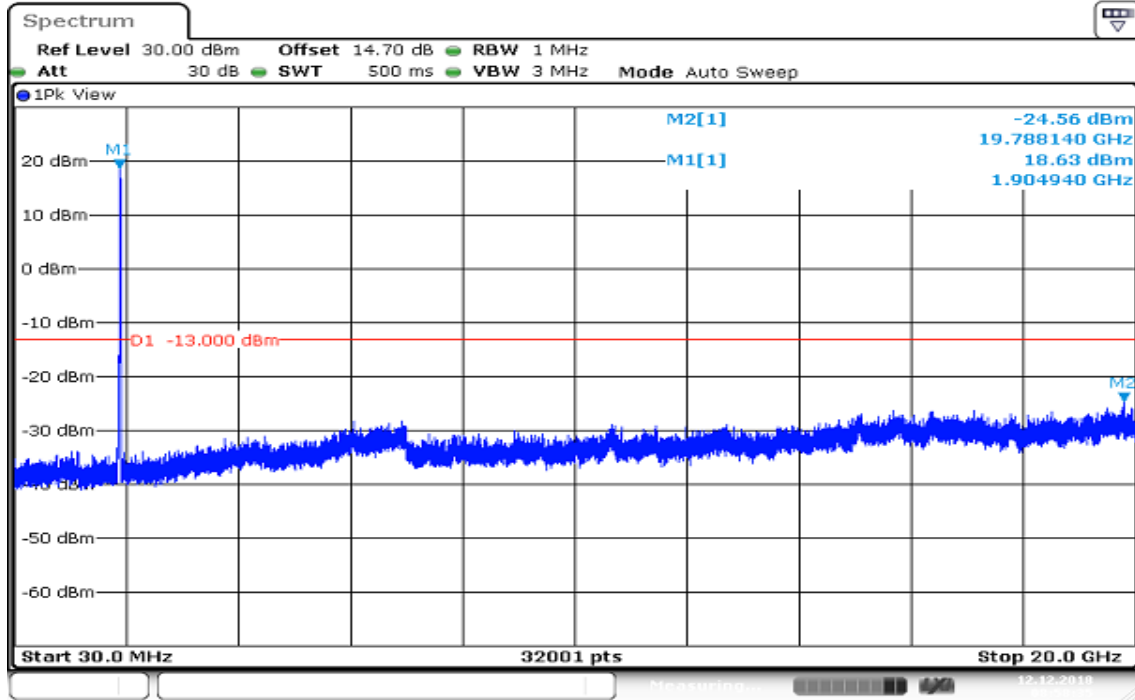
Date: 12 DEC 2018 08:56:56

CH Mid



Date: 12 DEC 2018 08:57:46

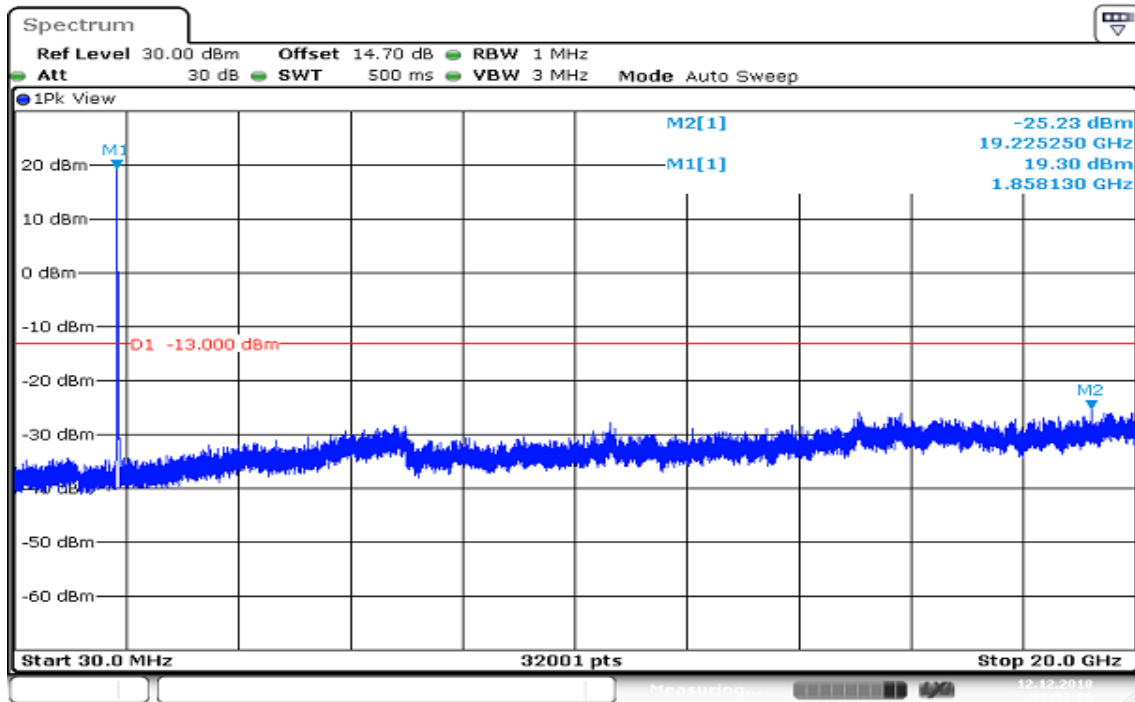
CH High



Date: 12 DEC 2018 08:58:25

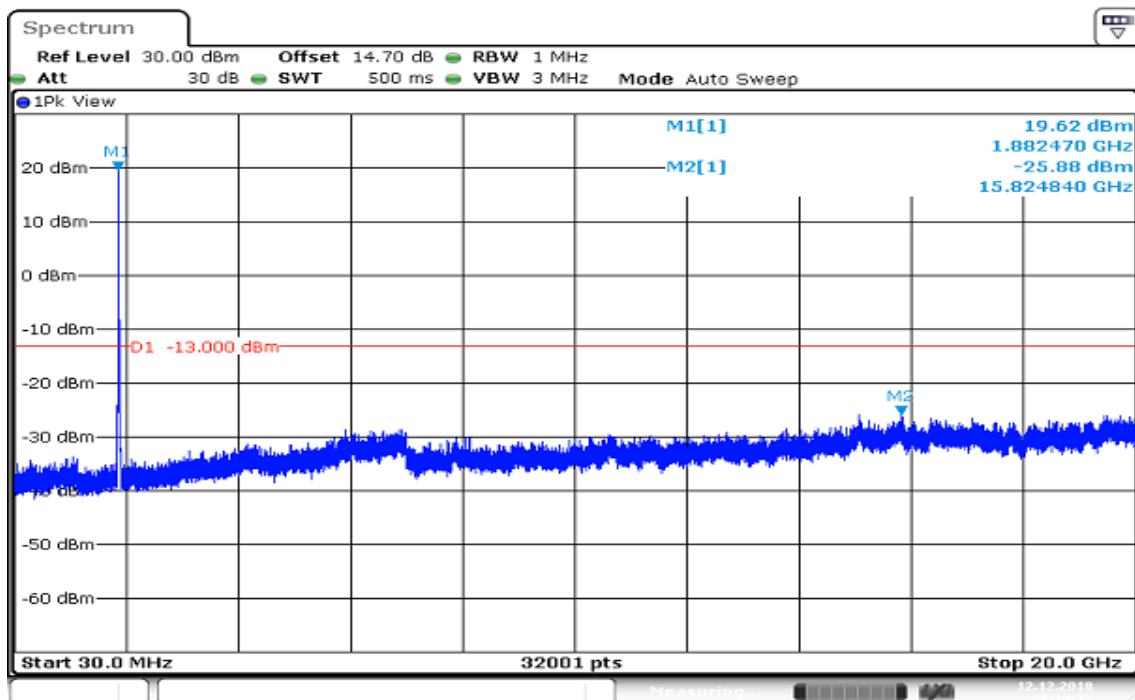
Report No.: T181123D04-RP4

CHANNEL BANDWIDTH: 15MHz / 16QAM CH Low



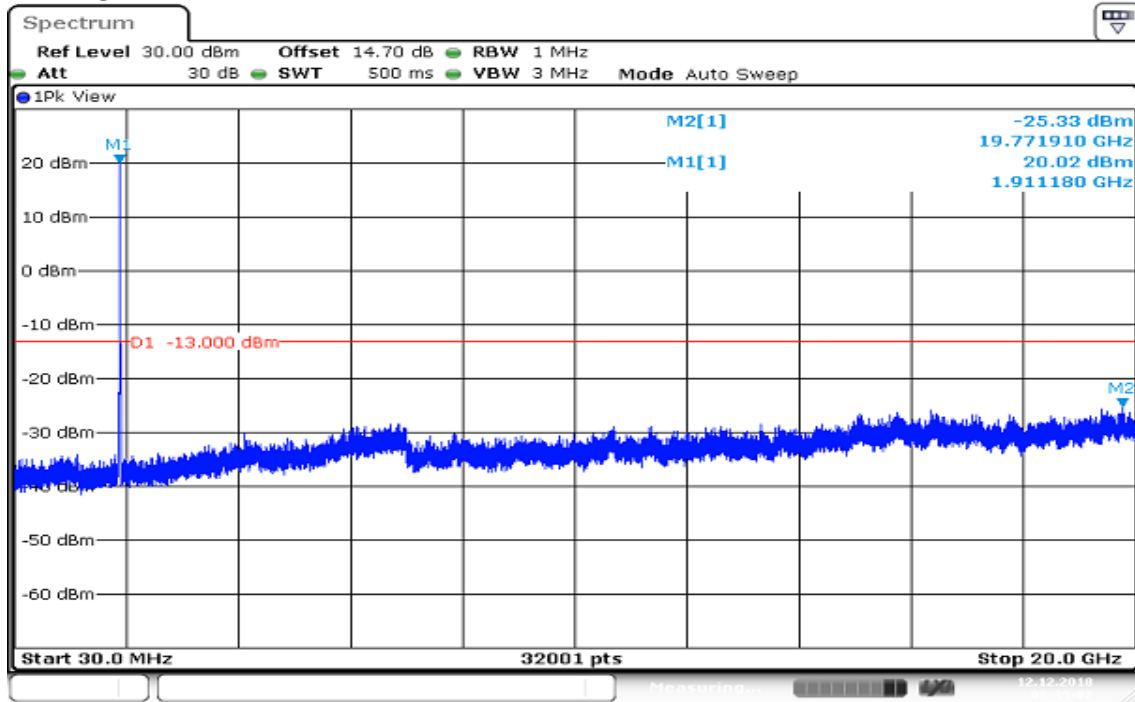
Date: 12 DEC 2018 08:23:07

CH Mid



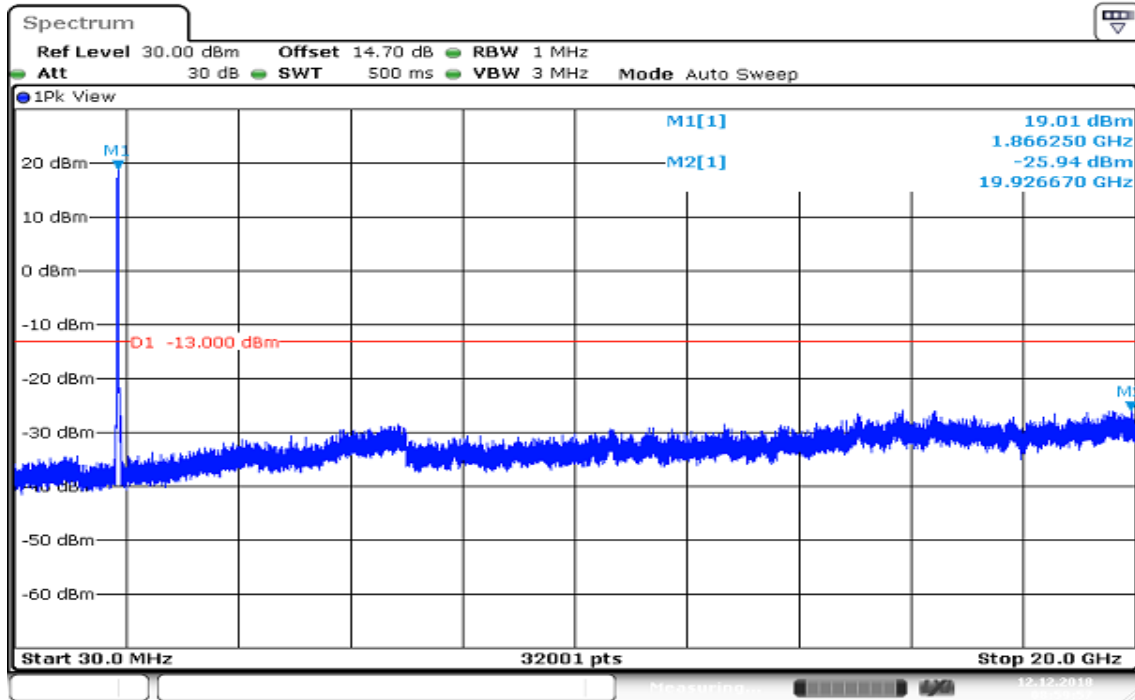
Date: 12 DEC 2018 08:24:13

CH High



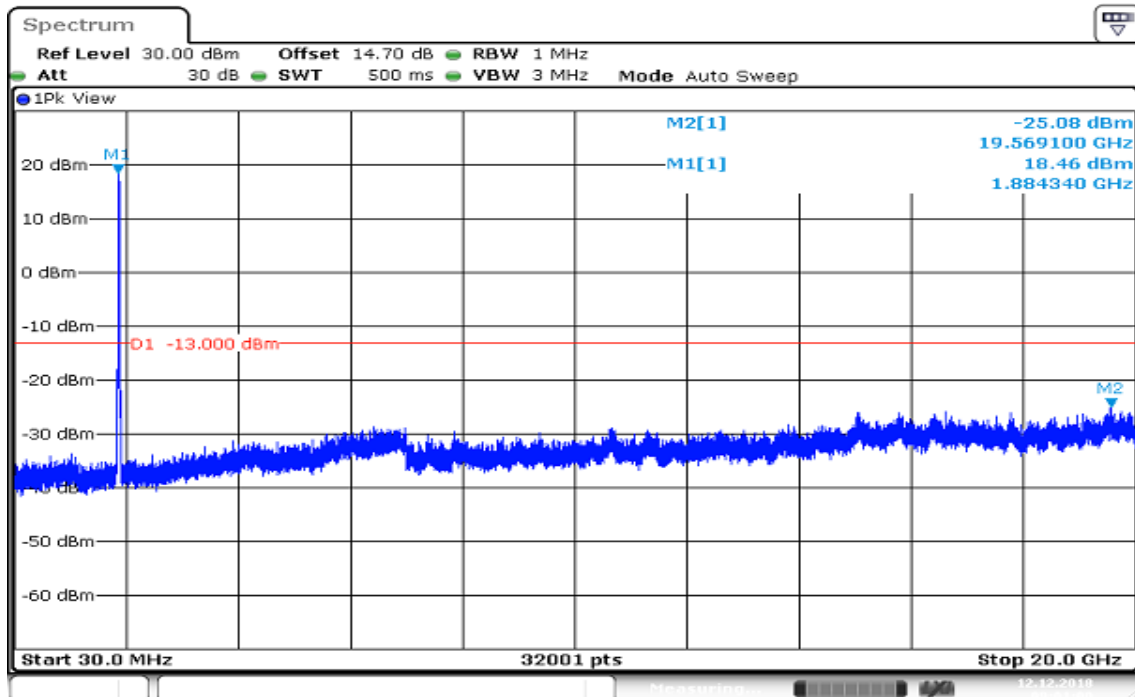
Date: 12 DEC 2018 08:25:02

CHANNEL BANDWIDTH: 20MHz / QPSK CH Low



Date: 12 DEC 2018 08:59:57

CH Mid



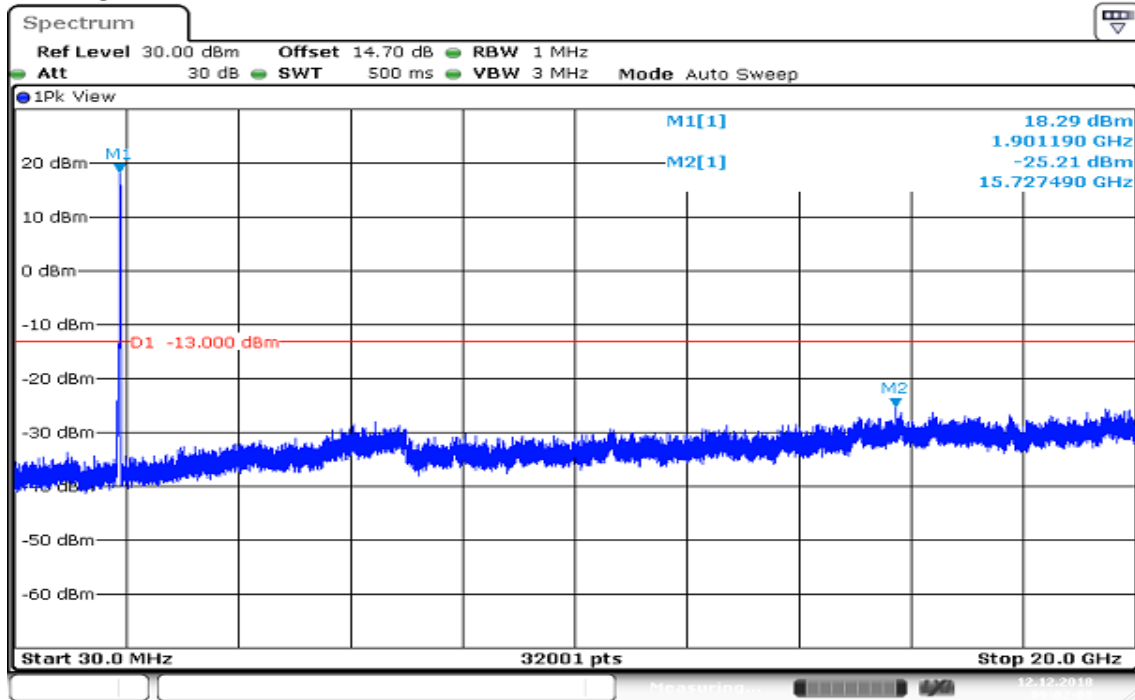
Date: 12 DEC 2018 09:01:00



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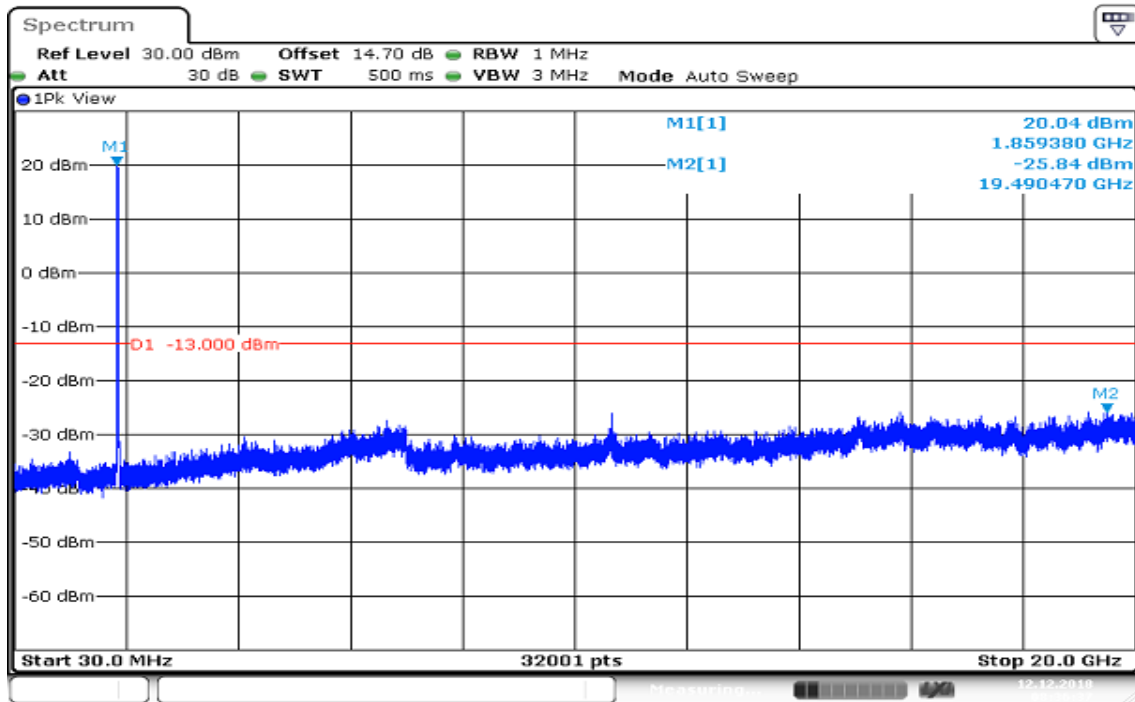
CH High



Date: 12 DEC 2018 09:02:09

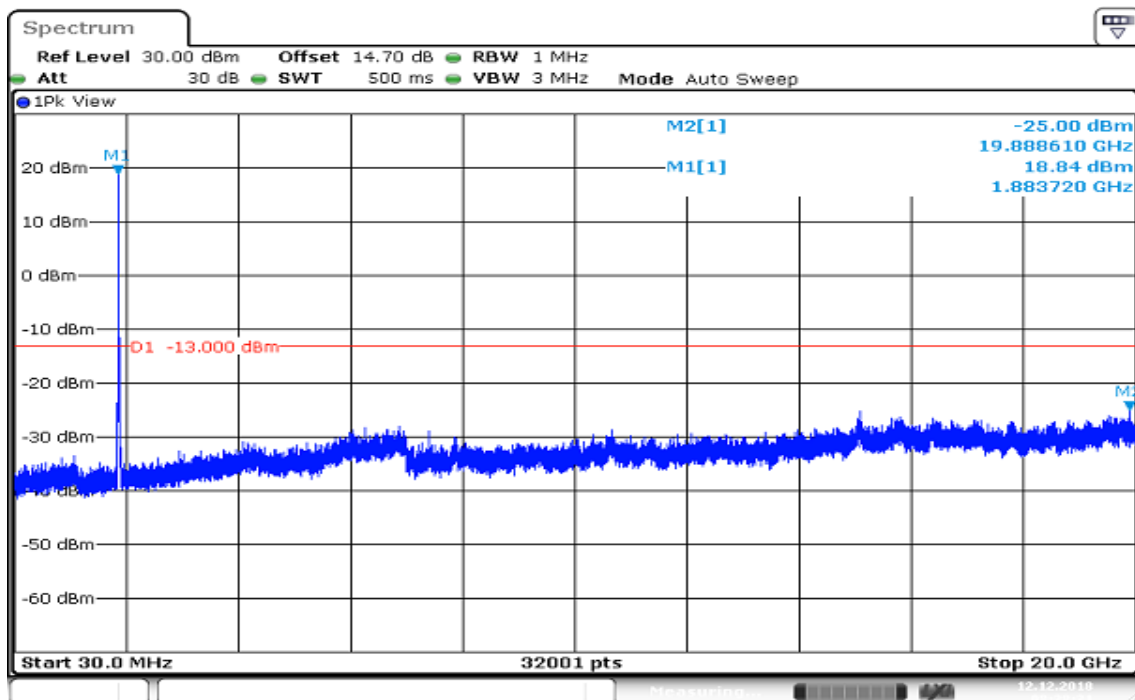
Report No.: T181123D04-RP4

CHANNEL BANDWIDTH: 20MHz / 16QAM CH Low



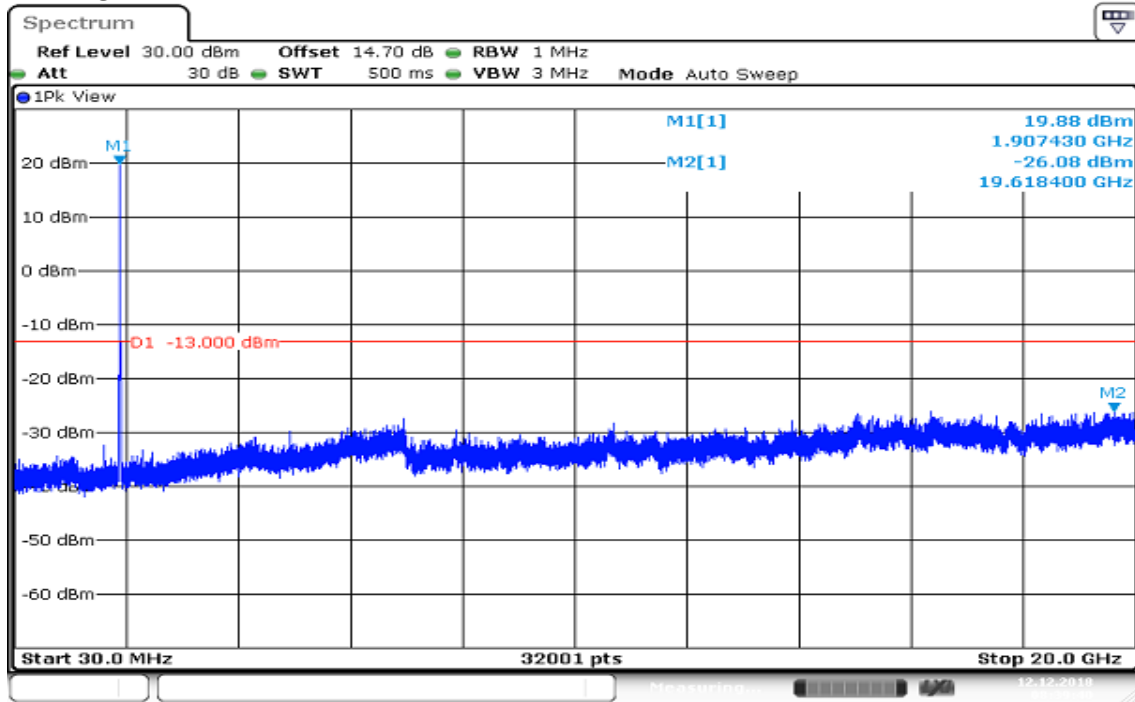
Date: 12 DEC 2018 08:26:28

CH Mid



Date: 12 DEC 2018 08:28:31

CH High



Date: 12 DEC 2018 08:29:40

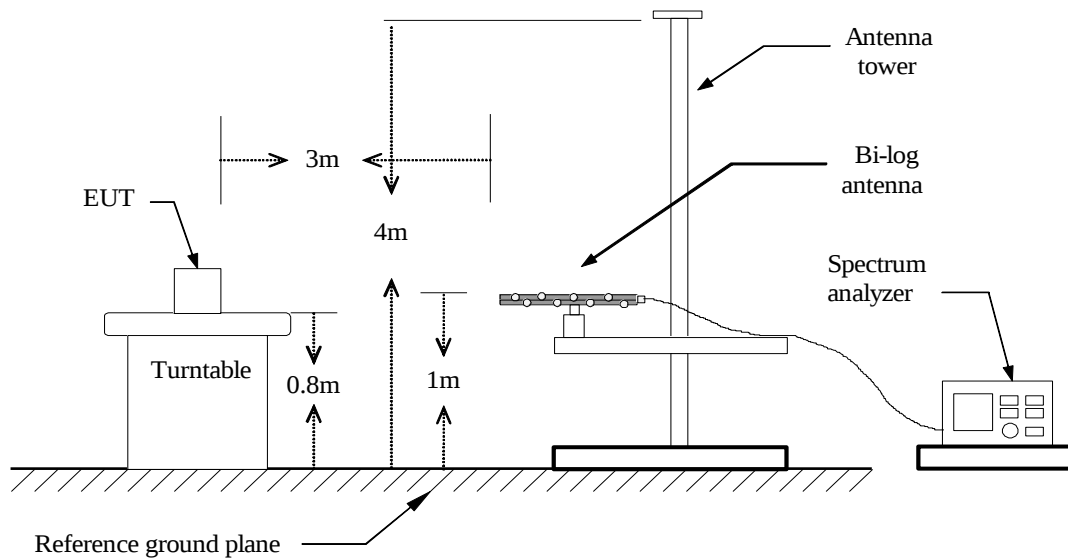
8.8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

LIMIT

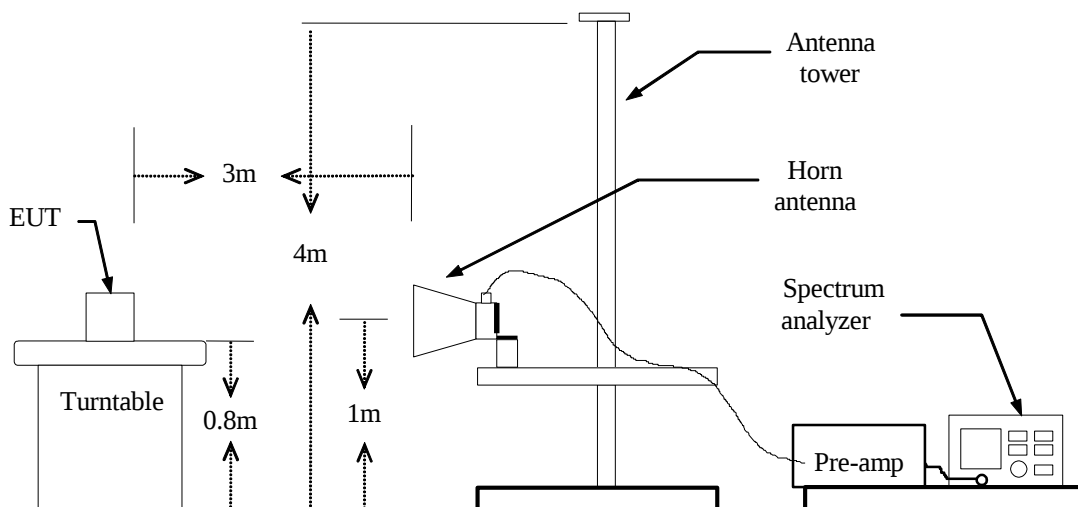
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

Test Configuration

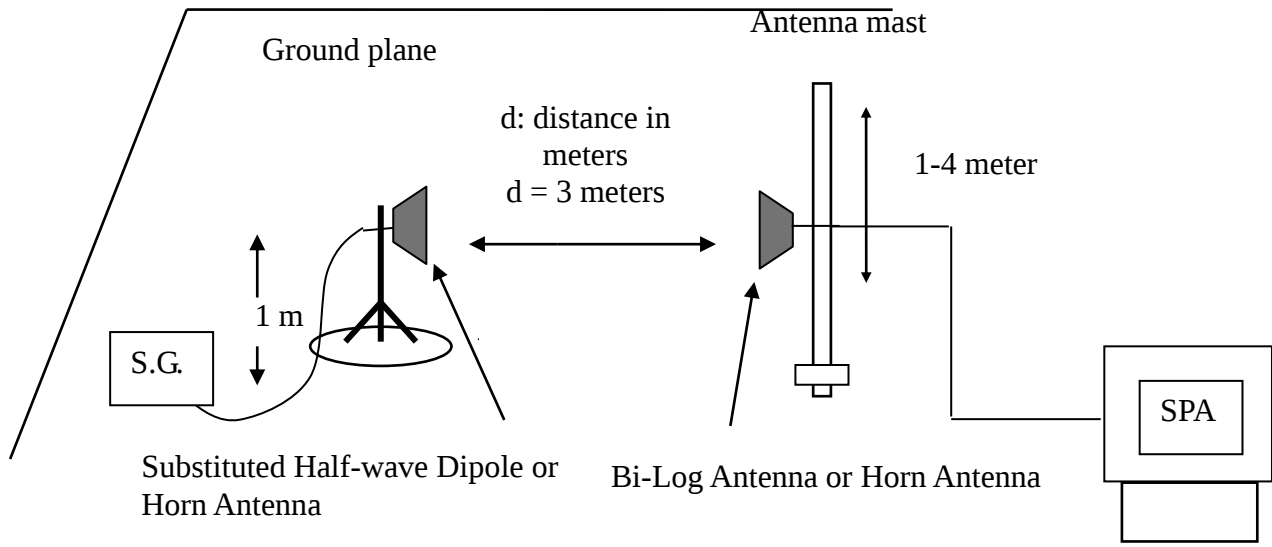
Below 1 GHz



Above 1 GHz



Substituted Method Test Set-up



TEST PROCEDURE

1. According to KDB 971168 D01 Power Meas License Digital Systems and TIA-603-E Section 2.2.12.
2. The EUT was placed on a turntable
 - (1) Below 1G : 0.8m
 - (2) Above 1G : 0.8m
 - (3) EUT set 3m from the receiving antenna
 - (4) The table was rotated 360 degrees of the highest spurious emission to determine the position.
3. Set the spectrum analyzer , RBW=1MHz, VBW=3MHz.
4. A horn antenna was driven by a signal generator.
5. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)} - 2.15$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)}$$

For test result, the S.G. value is including antenna gain and cable loss.

TEST RESULTS

Refer to the attached tabular data sheets.



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Test Results

Below 1GHz

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

Operation Mode: Tx / Mid CH

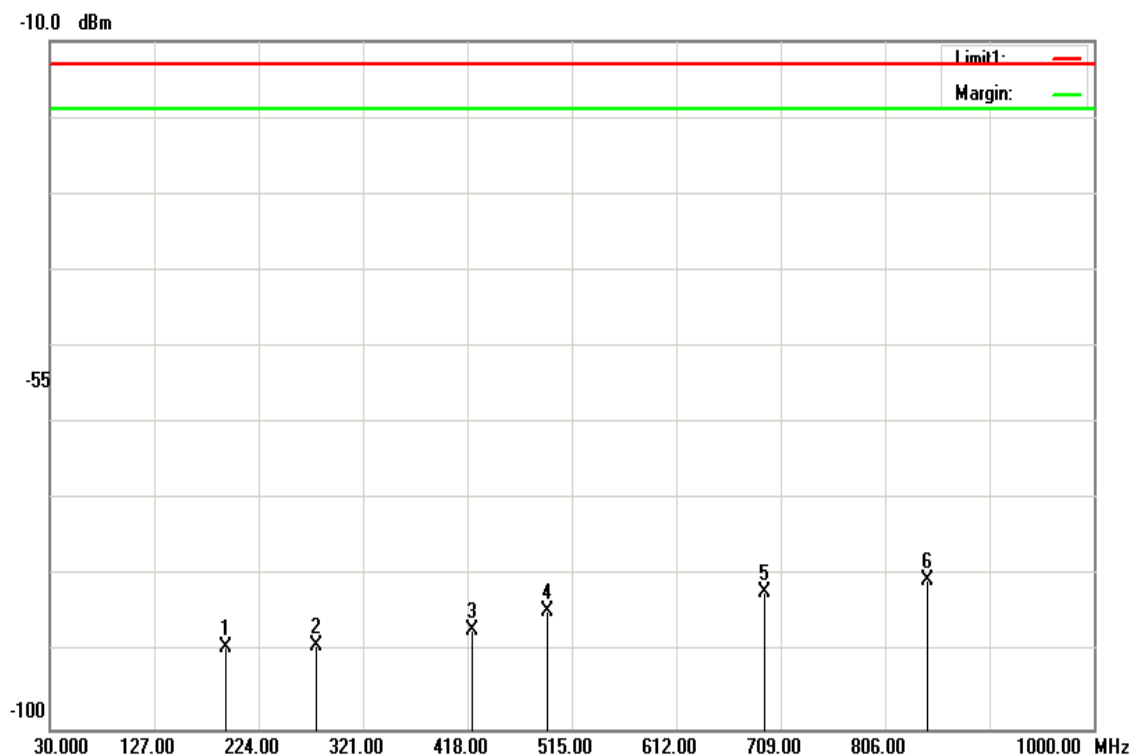
Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Ver.



Frequency (MHz)	S.G. (dBm)	Ant. Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
193.4450	-85.68	1.38	-89.21	-13.00	-76.21	V
277.3500	-85.26	1.65	-89.06	-13.00	-76.06	V
423.3350	-82.75	2.07	-86.97	-13.00	-73.97	V
492.2050	-80.19	2.23	-84.57	-13.00	-71.57	V
693.4800	-77.27	2.67	-82.09	-13.00	-69.09	V
845.2850	-75.51	2.96	-80.62	-13.00	-67.62	V

Note: We selected worst case to performed test, The results can be meet other mode.



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Operation Mode: Tx / Mid CH

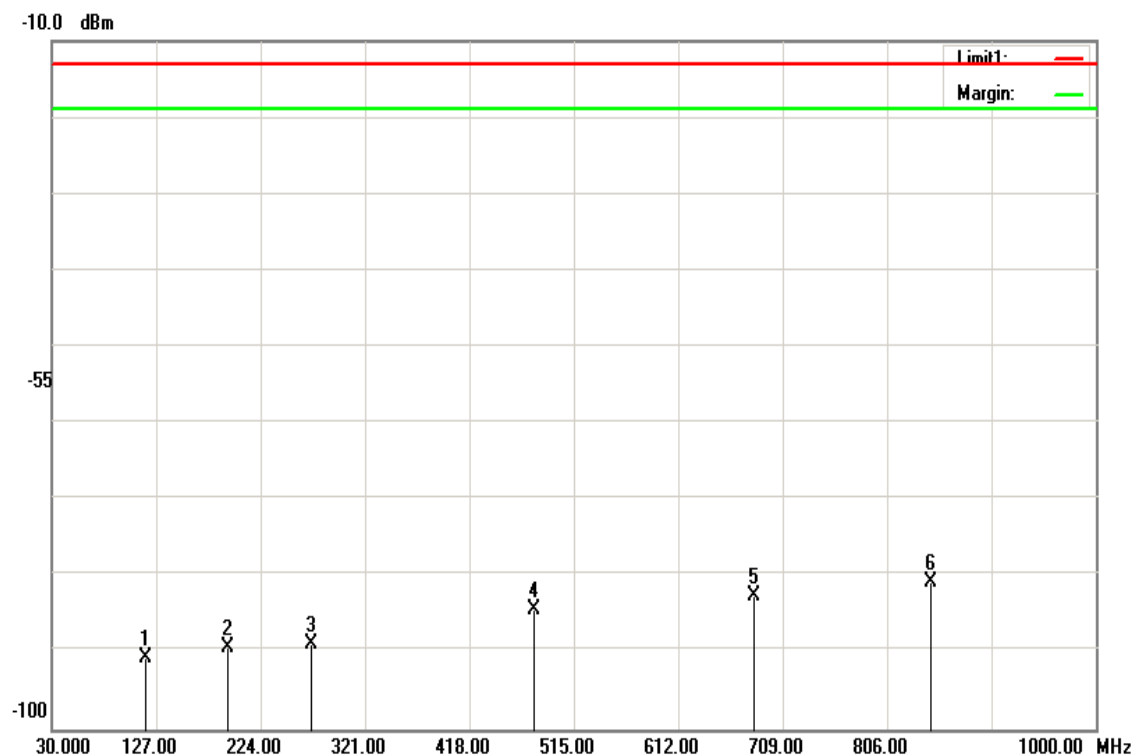
Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.



Frequency (MHz)	S.G. (dBm)	Ant. Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
117.7850	-87.51	1.08	-90.74	-13.00	-77.74	H
192.9600	-85.72	1.38	-89.25	-13.00	-76.25	H
271.0450	-85	1.64	-88.79	-13.00	-75.79	H
478.6250	-80.07	2.2	-84.42	-13.00	-71.42	H
683.2950	-77.75	2.64	-82.54	-13.00	-69.54	H
846.7400	-75.72	2.96	-80.83	-13.00	-67.83	H

Note: We selected worst case to performed test, The results can be meet other mode.

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

Operation Mode: Tx / Mid CH

Test Date:

December 6, 2018

Temperature: 22°C

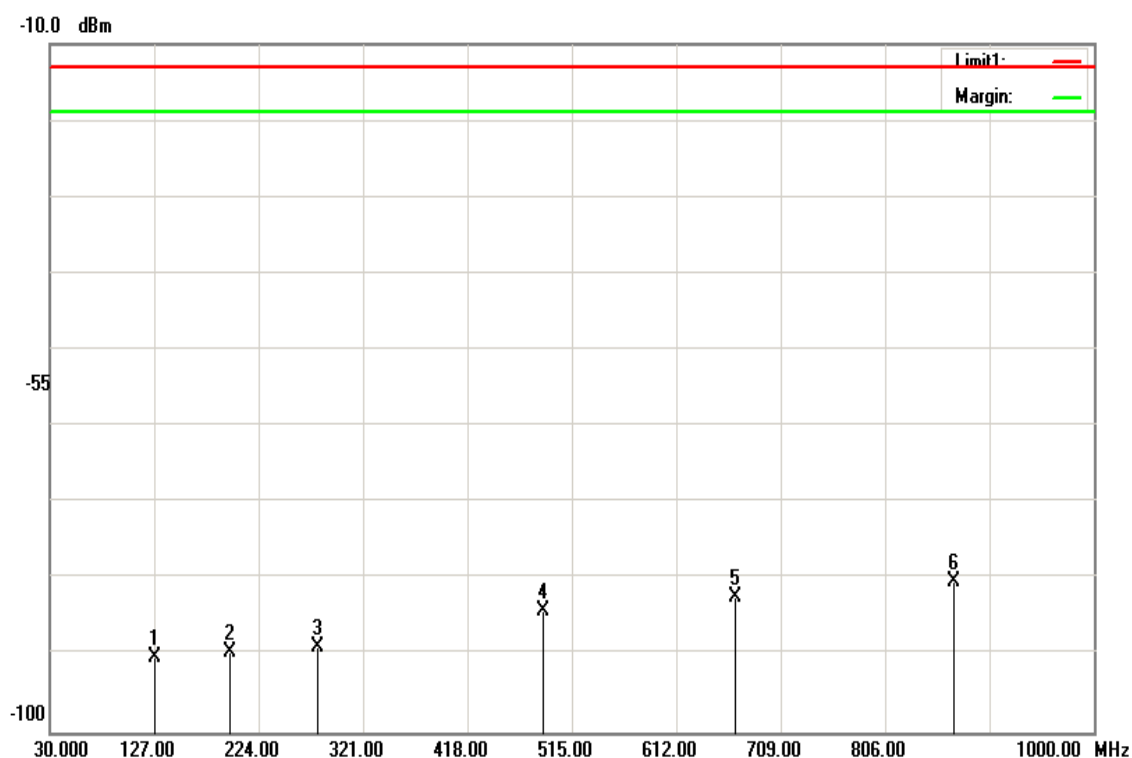
Tested by:

Jerry Chuang

Humidity: 48% RH

Polarity:

Ver.

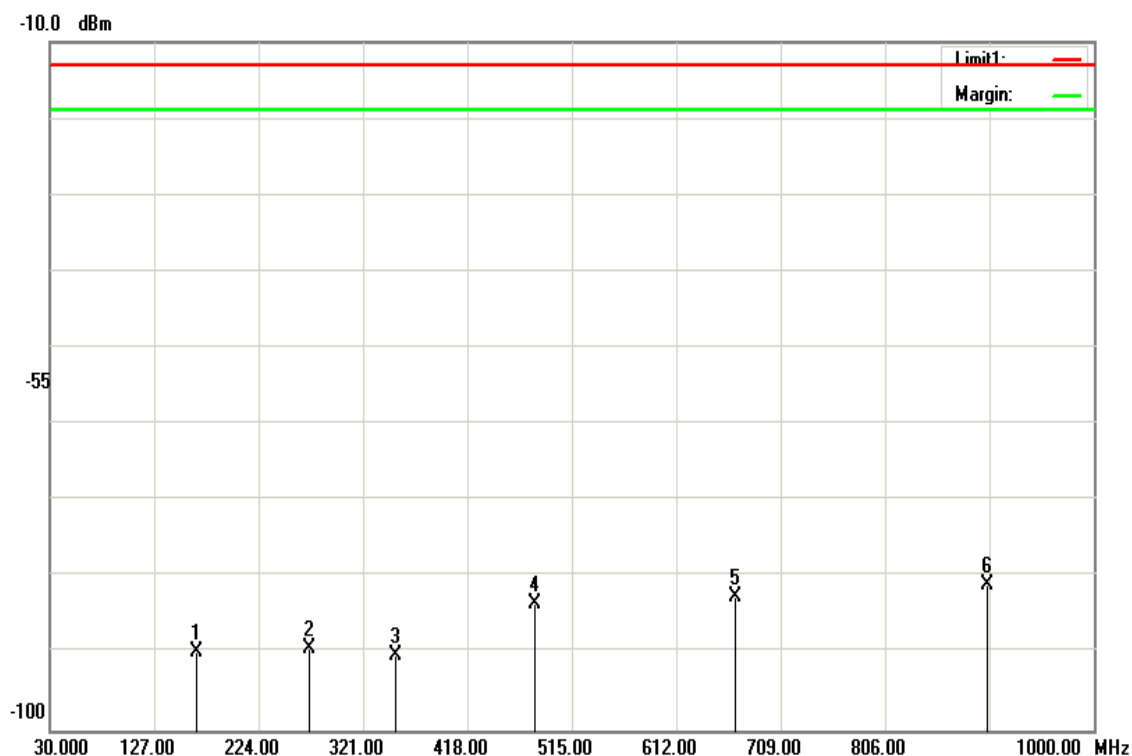


Frequency (MHz)	S.G. (dBm)	Ant. Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
127.4850	-86.86	1.12	-90.13	-13.00	-77.13	V
198.2950	-86.1	1.39	-89.64	-13.00	-76.64	V
279.7750	-85.04	1.66	-88.85	-13.00	-75.85	V
488.3250	-79.86	2.22	-84.23	-13.00	-71.23	V
667.7750	-77.5	2.61	-82.26	-13.00	-69.26	V
870.5050	-75.14	3.01	-80.30	-13.00	-67.30	V

Note: We selected worst case to performed test, The results can be meet other mode.

Operation Mode: Tx / Mid CH
Temperature: 22°C
Humidity: 48% RH

Test Date: December 6, 2018
Tested by: Jerry Chuang
Polarity: Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
166.7700	-86.43	1.28	-89.86	-13.00	-76.86	H
271.5300	-85.42	1.64	-89.21	-13.00	-76.21	H
351.0700	-86.23	1.87	-90.25	-13.00	-77.25	H
481.0500	-79.02	2.2	-83.37	-13.00	-70.37	H
666.3200	-77.81	2.61	-82.57	-13.00	-69.57	H
901.5450	-75.71	3.06	-80.92	-13.00	-67.92	H

Note: We selected worst case to performed test, The results can be meet other mode.

Above 1GHz

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

Operation Mode: Tx / Low CH

Test Date:

December 6, 2018

Temperature: 22°C

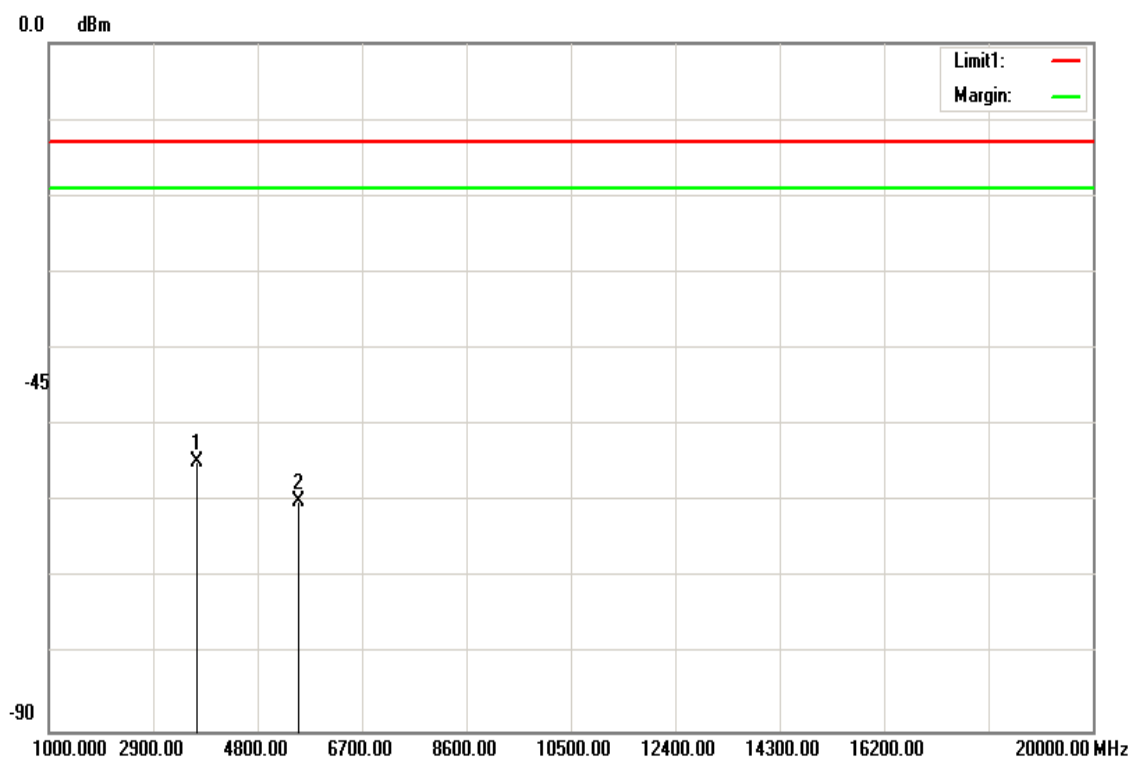
Tested by:

Jerry Chuang

Humidity: 48% RH

Polarity:

Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-48.07	6.63	-54.70	-13.00	-41.70	V
5553.500	-51.56	8.29	-59.85	-13.00	-46.85	V
N/A						

Remark:

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

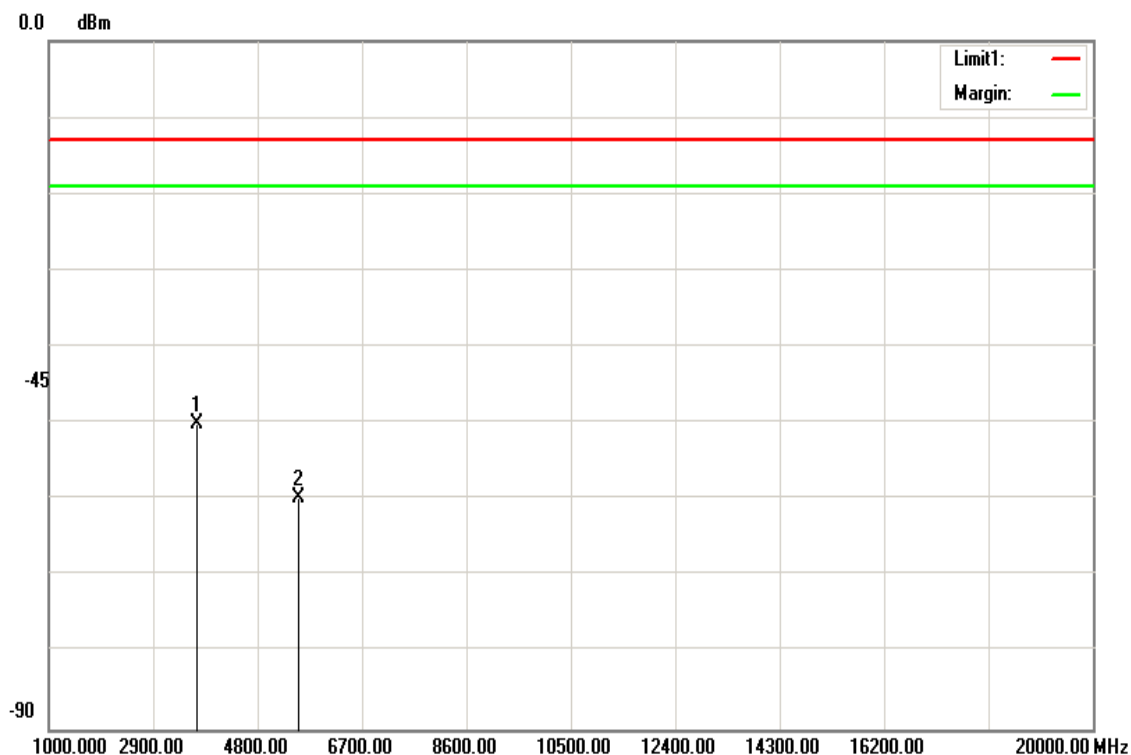
Operation Mode: Tx / Low CH

Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.


Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-43.47	6.63	-50.10	-13.00	-37.10	H
5553.500	-51.49	8.29	-59.78	-13.00	-46.78	H
N/A						

Remark:

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

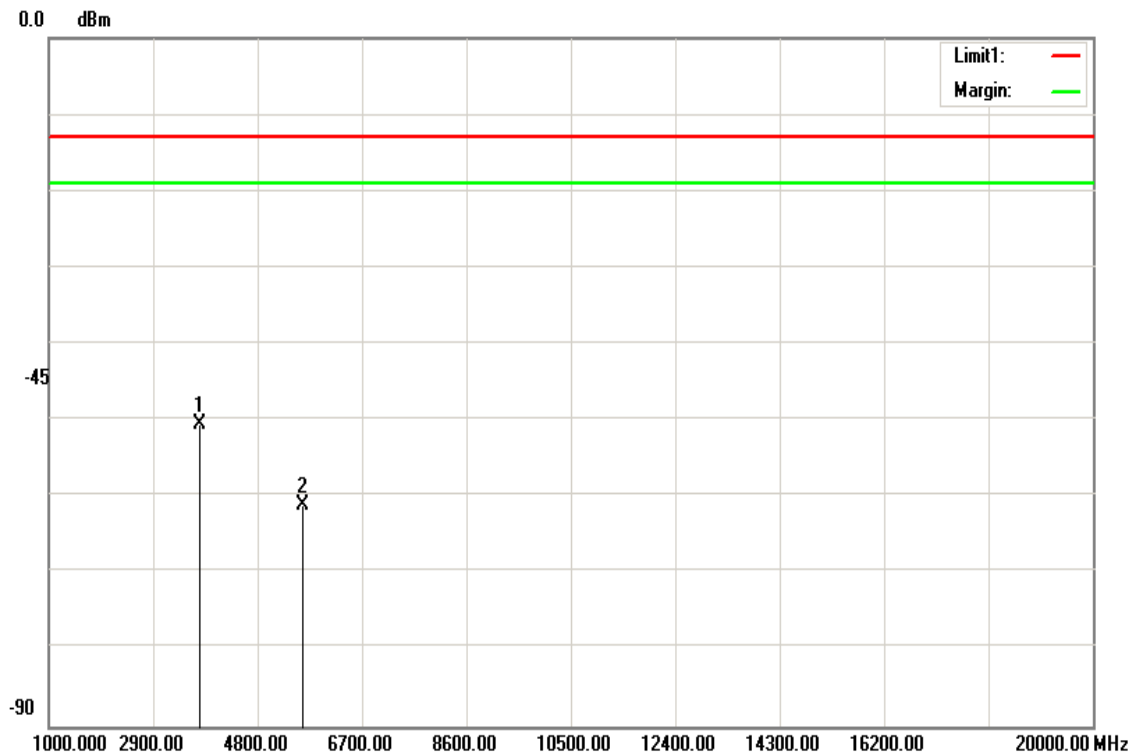
Operation Mode: Tx / Mid CH

Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Ver.


Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3740.500	-43.83	6.67	-50.50	-13.00	-37.50	V
5613.000	-52.75	8.34	-61.09	-13.00	-48.09	V
N/A						

Remark:

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

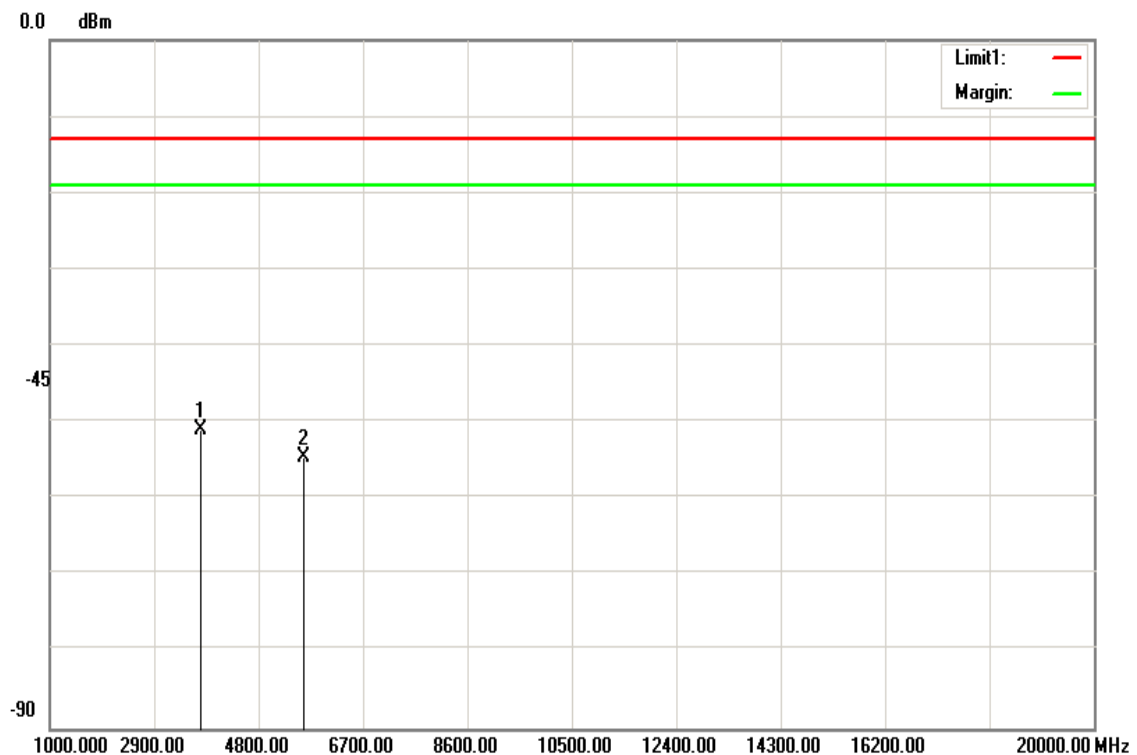


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Operation Mode: Tx / Mid CH
Temperature: 22°C
Humidity: 48% RH

Test Date: December 6, 2018
Tested by: Jerry Chuang
Polarity: Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3740.500	-44.18	6.67	-50.85	-13.00	-37.85	H
5613.000	-46.31	8.34	-54.65	-13.00	-41.65	H
N/A						

Remark:

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

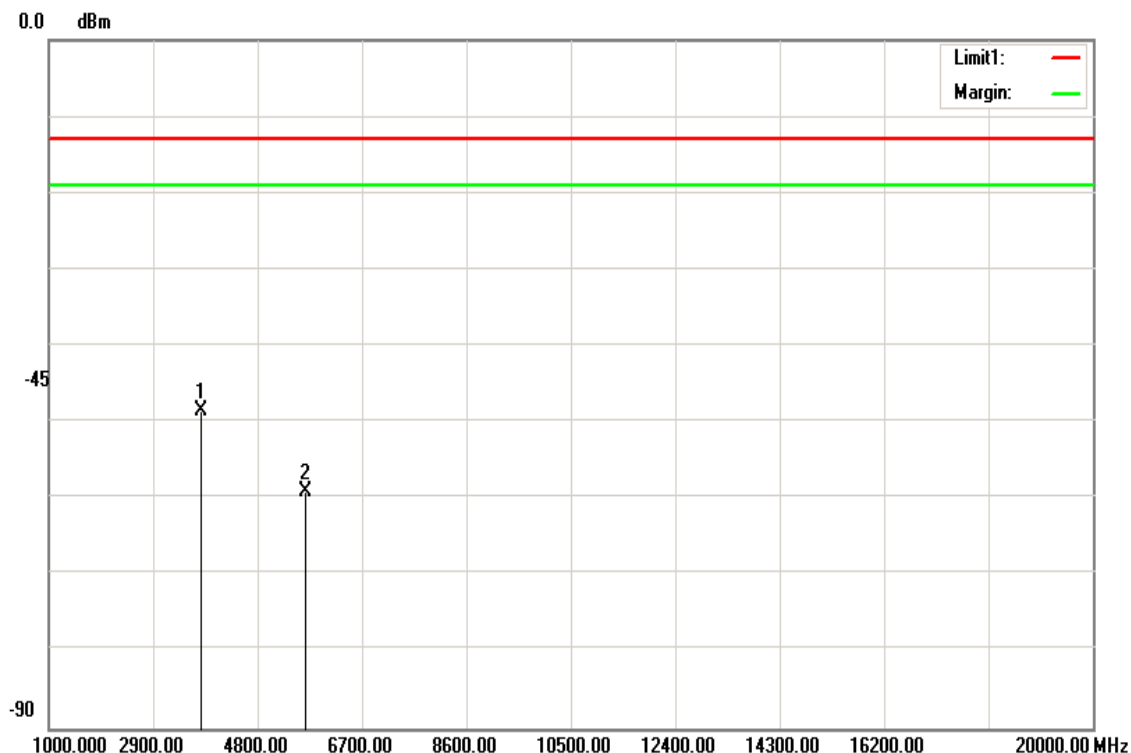
Operation Mode: Tx / High CH

Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Ver.


Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3782.500	-41.83	6.71	-48.54	-13.00	-35.54	V
5672.500	-50.64	8.4	-59.04	-13.00	-46.04	V
N/A						

Remark:

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

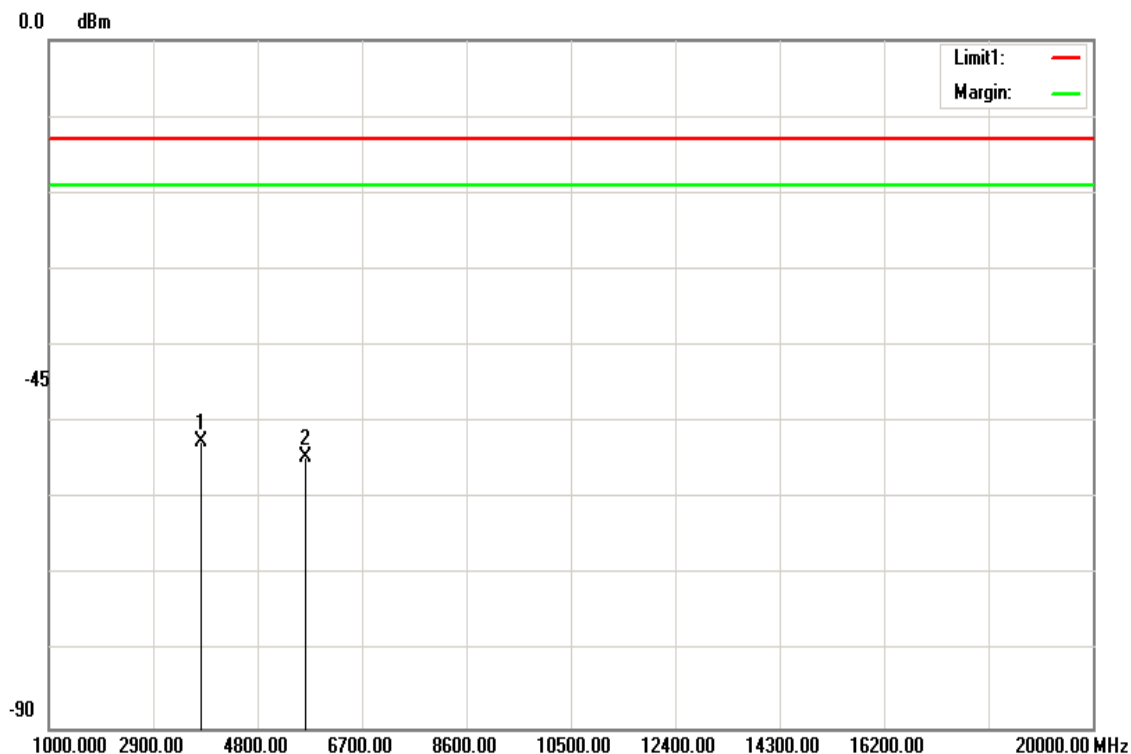
Operation Mode: Tx / High CH

Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.


Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3782.500	-45.86	6.71	-52.57	-13.00	-39.57	H
5672.500	-46.2	8.4	-54.60	-13.00	-41.60	H
N/A						

Remark:

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

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

Operation Mode: Tx / Low CH

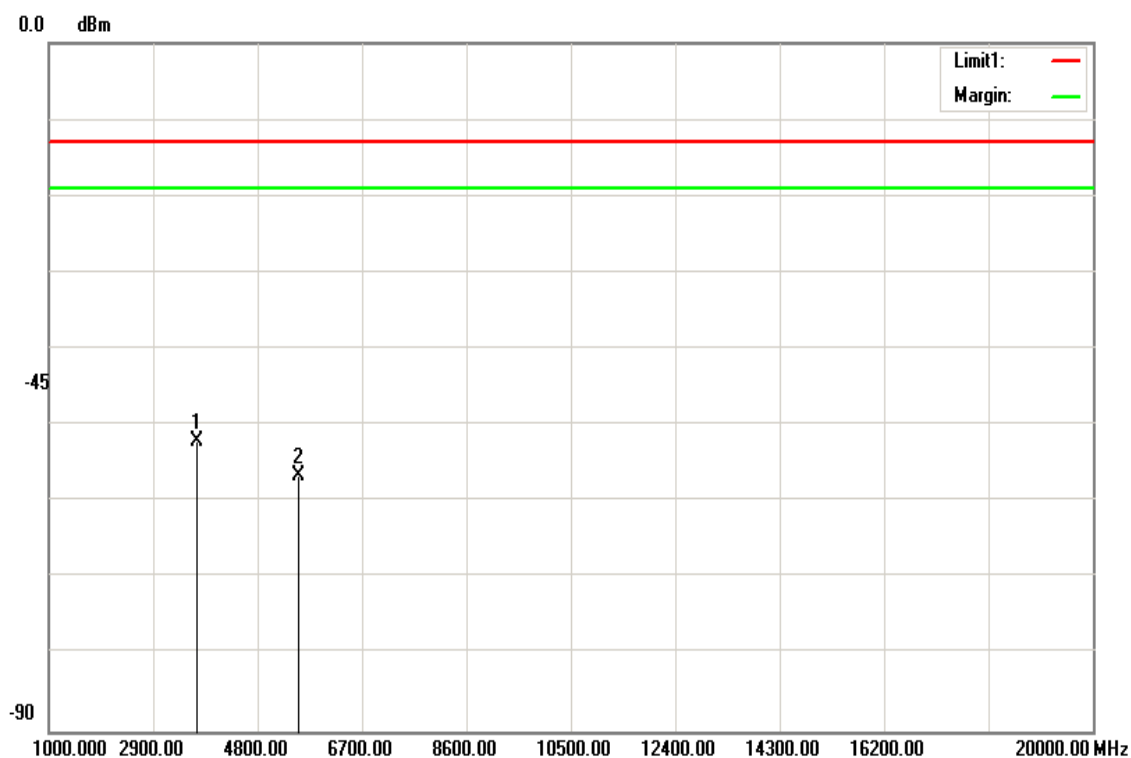
Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-45.53	6.63	-52.16	-13.00	-39.16	V
5553.500	-48.34	8.29	-56.63	-13.00	-43.63	V
N/A						

Remark:

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

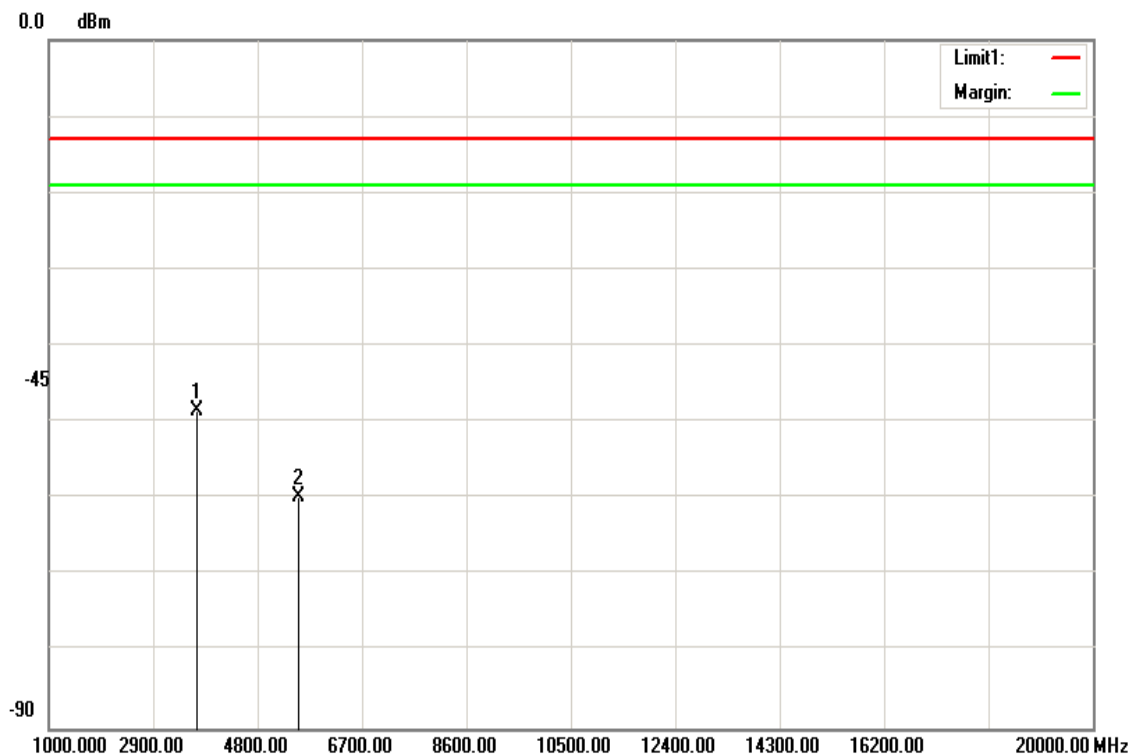
Operation Mode: Tx / Low CH

Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.


Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-41.82	6.63	-48.45	-13.00	-35.45	H
5553.500	-51.55	8.29	-59.84	-13.00	-46.84	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

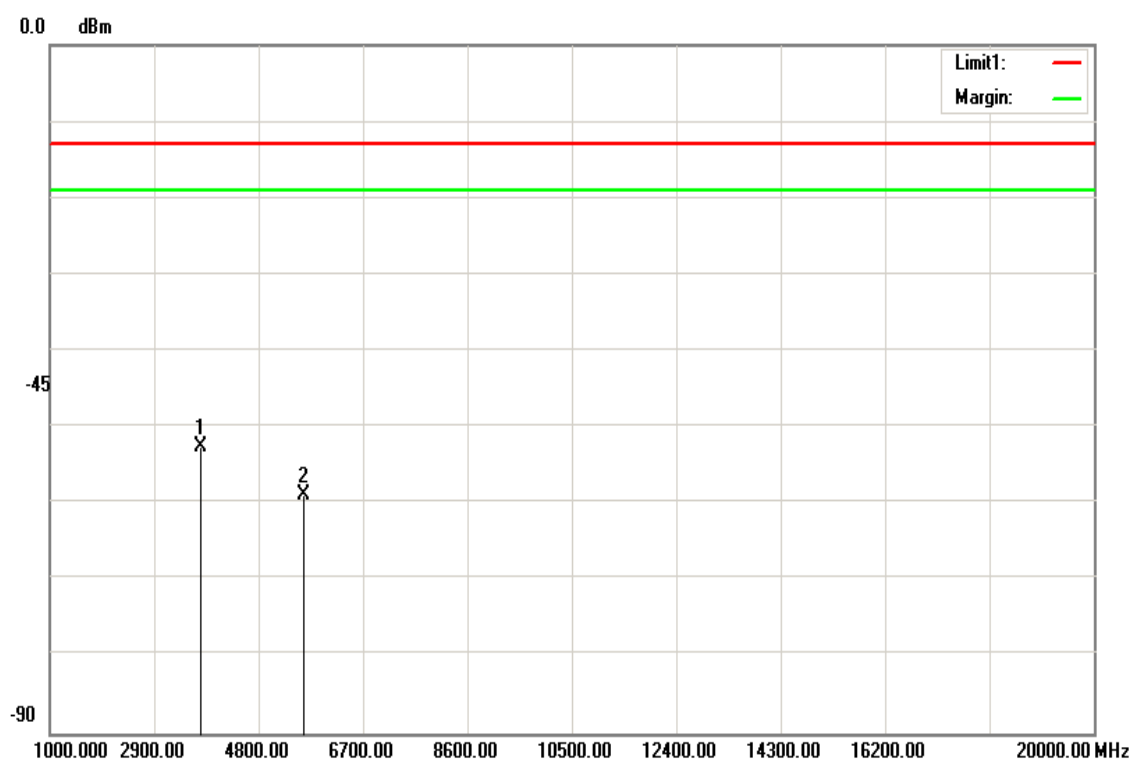
Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3740.500	-45.83	6.67	-52.50	-13.00	-39.50	V
5613.000	-50.58	8.34	-58.92	-13.00	-45.92	V
N/A						

Remark:

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

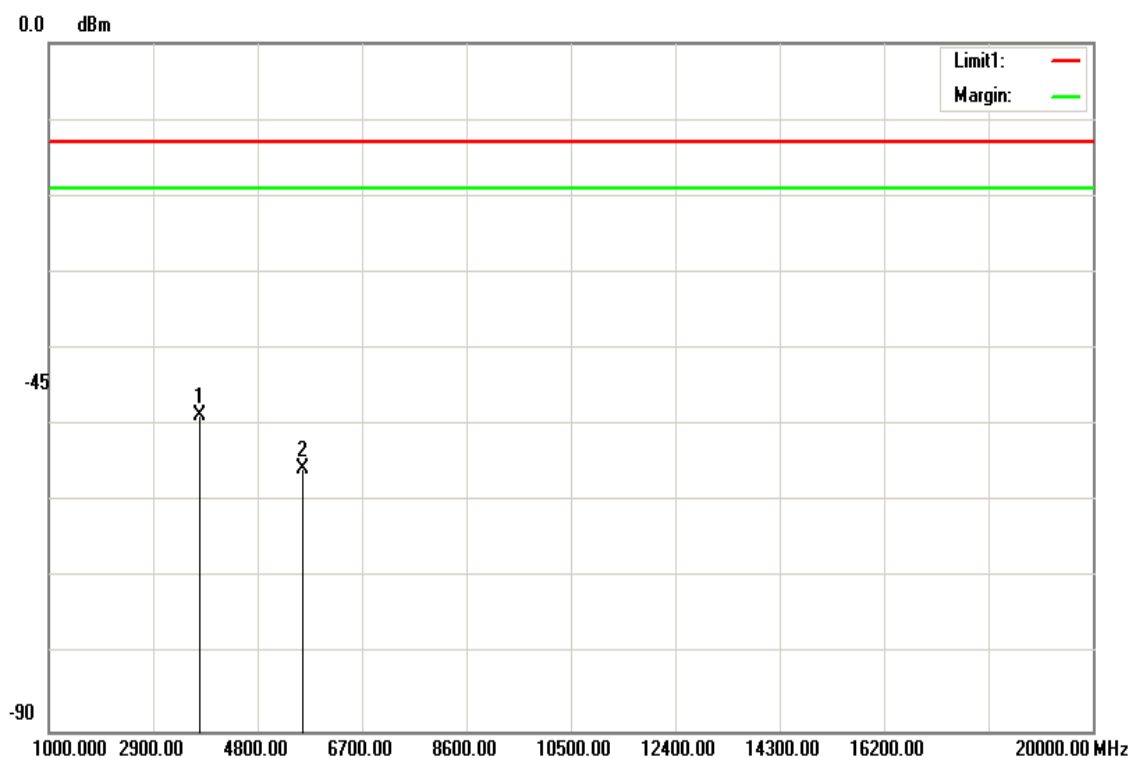


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Operation Mode: Tx / Mid CH
Temperature: 22°C
Humidity: 48% RH

Test Date: December 6, 2018
Tested by: Jerry Chuang
Polarity: Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3740.500	-42.1	6.67	-48.77	-13.00	-35.77	H
5613.000	-47.4	8.34	-55.74	-13.00	-42.74	H
N/A						

Remark:

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

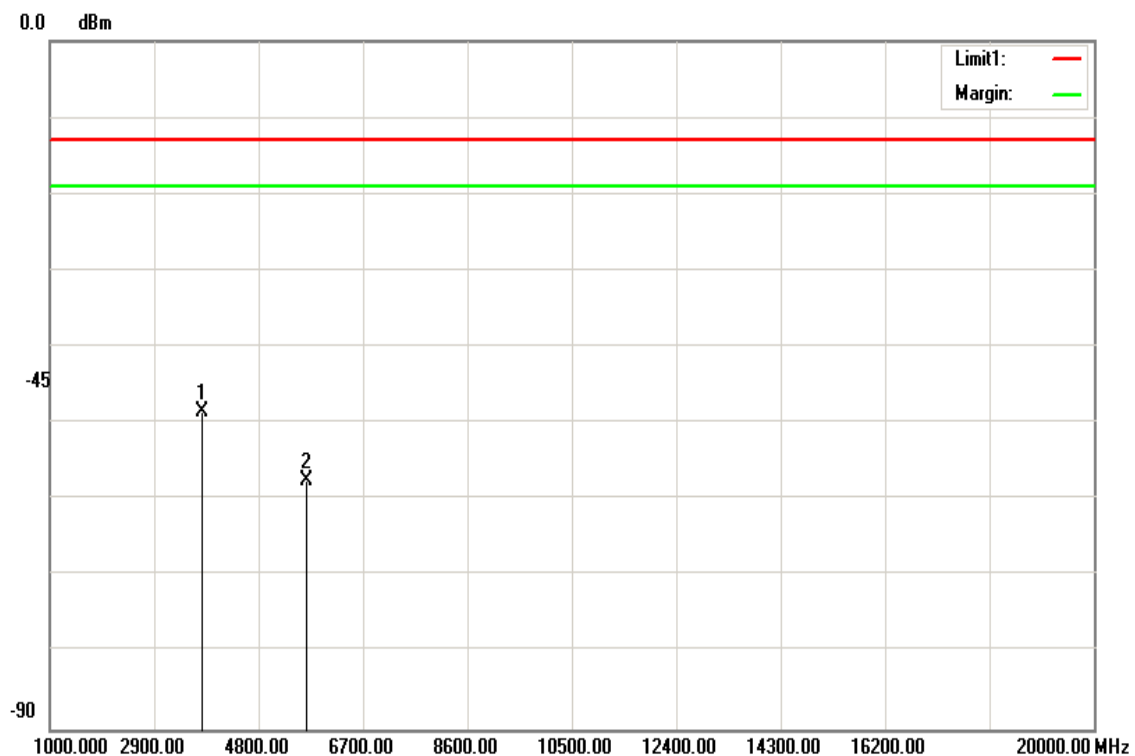


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Operation Mode: Tx / High CH
Temperature: 22°C
Humidity: 48% RH

Test Date: December 6, 2018
Tested by: Jerry Chuang
Polarity: Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3782.500	-41.68	6.71	-48.39	-13.00	-35.39	V
5672.500	-49.11	8.4	-57.51	-13.00	-44.51	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

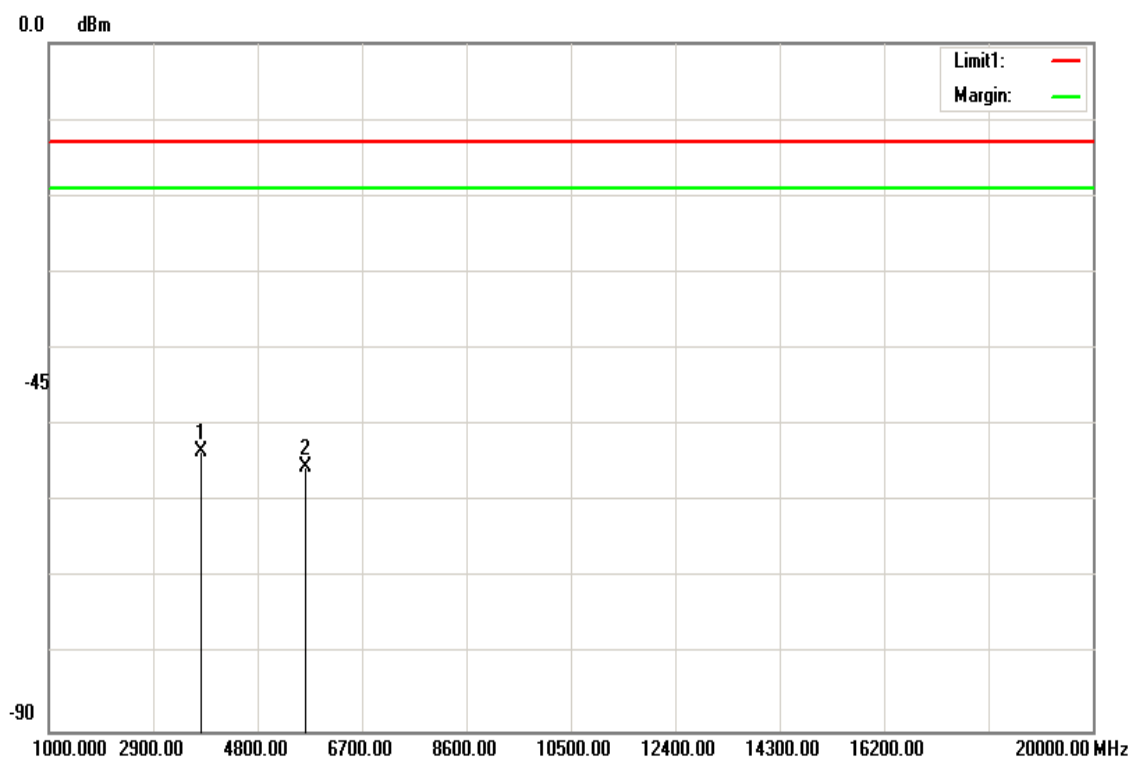
Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3782.500	-46.75	6.71	-53.46	-13.00	-40.46	H
5672.500	-47.12	8.4	-55.52	-13.00	-42.52	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 5 / BW: 10MHz / QPSK / RB =1, RB Offset = 0

Operation Mode: Tx / Mid CH

Test Date:

December 3, 2018

Temperature: 22°C 22°C

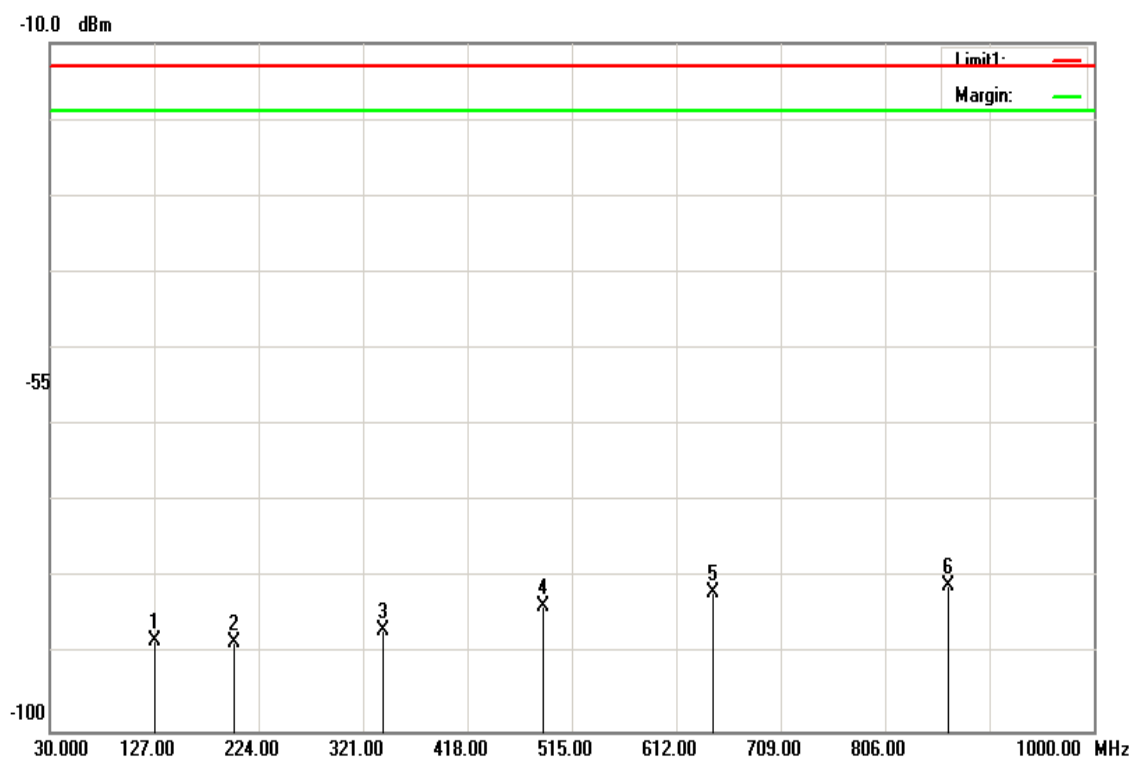
Tested by:

Jerry Chuang

Humidity: 48% RH

Polarity:

Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
127.4850	-84.95	1.12	-88.22	-13.00	-75.22	V
201.6900	-84.87	1.41	-88.43	-13.00	-75.43	V
339.9150	-82.79	1.84	-86.78	-13.00	-73.78	V
487.8400	-79.25	2.22	-83.62	-13.00	-70.62	V
645.9500	-77.07	2.56	-81.78	-13.00	-68.78	V
865.6550	-75.73	3	-80.88	-13.00	-67.88	V

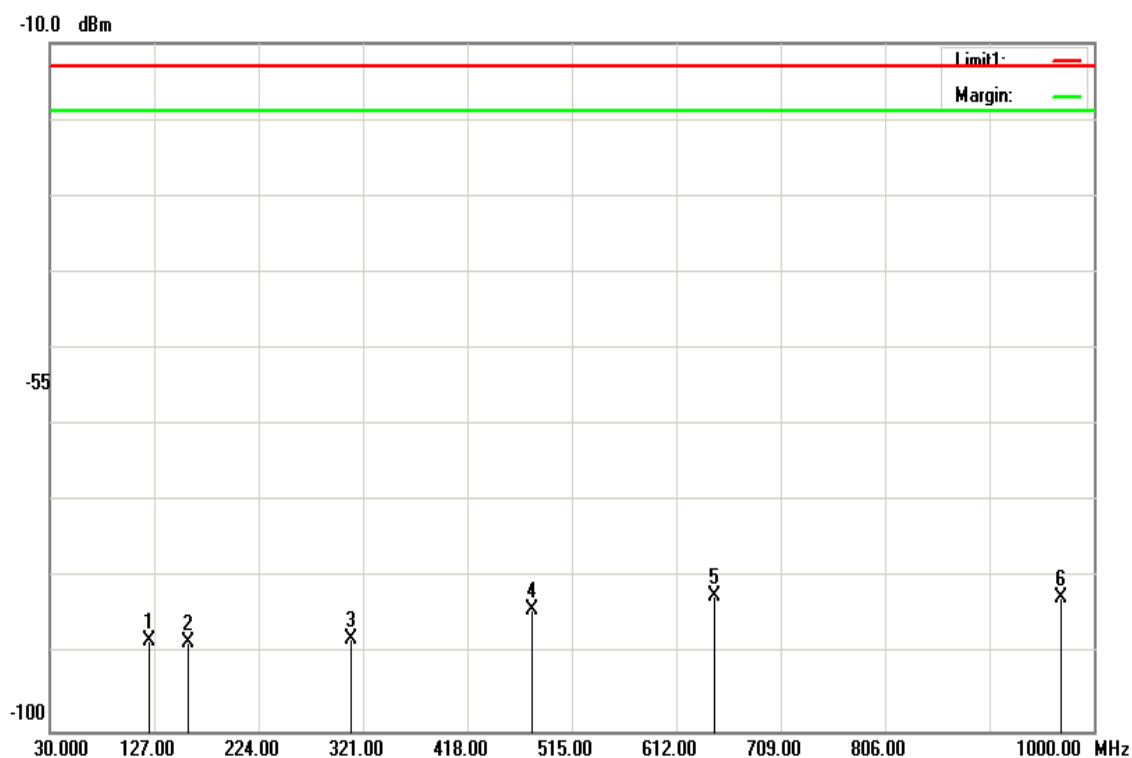
Operation Mode: Tx / Mid CH

Test Date: December 3, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.


Frequency (MHz)	S.G. (dBm)	Ant. Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
122.1500	-84.91	1.1	-88.16	-13.00	-75.16	H
159.4950	-84.94	1.25	-88.34	-13.00	-75.34	H
310.8150	-84.06	1.76	-87.97	-13.00	-74.97	H
478.1400	-79.87	2.2	-84.22	-13.00	-71.22	H
646.9200	-77.72	2.56	-82.43	-13.00	-69.43	H
969.4450	-77.32	3.18	-82.65	-13.00	-69.65	H

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

Operation Mode: Tx / Mid CH

Test Date:

December 3, 2018

Temperature: 22°C

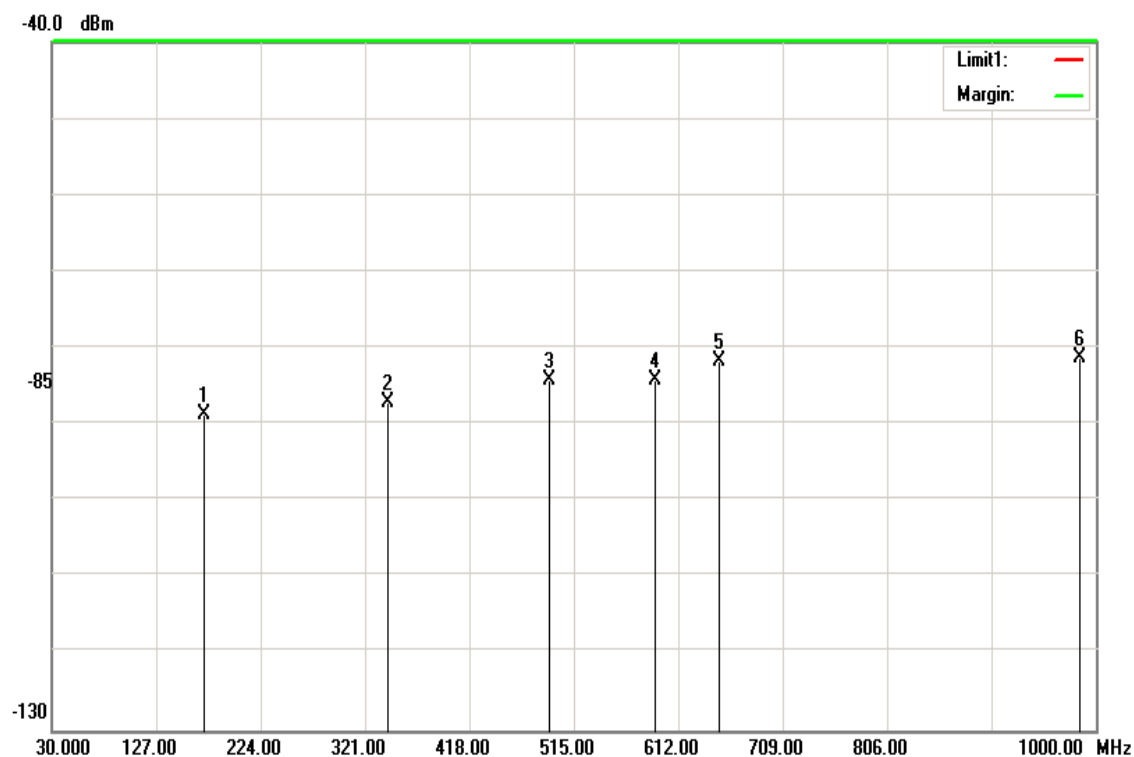
Tested by:

Jerry Chuang

Humidity: 48% RH

Polarity:

Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
171.6200	-85.27	1.3	-88.72	-13.00	-75.72	V
342.8250	-83.23	1.85	-87.23	-13.00	-74.23	V
493.1750	-79.92	2.23	-84.30	-13.00	-71.30	V
590.6600	-79.69	2.45	-84.29	-13.00	-71.29	V
649.8300	-77.07	2.57	-81.79	-13.00	-68.79	V
984.9650	-75.89	3.2	-81.24	-13.00	-68.24	V

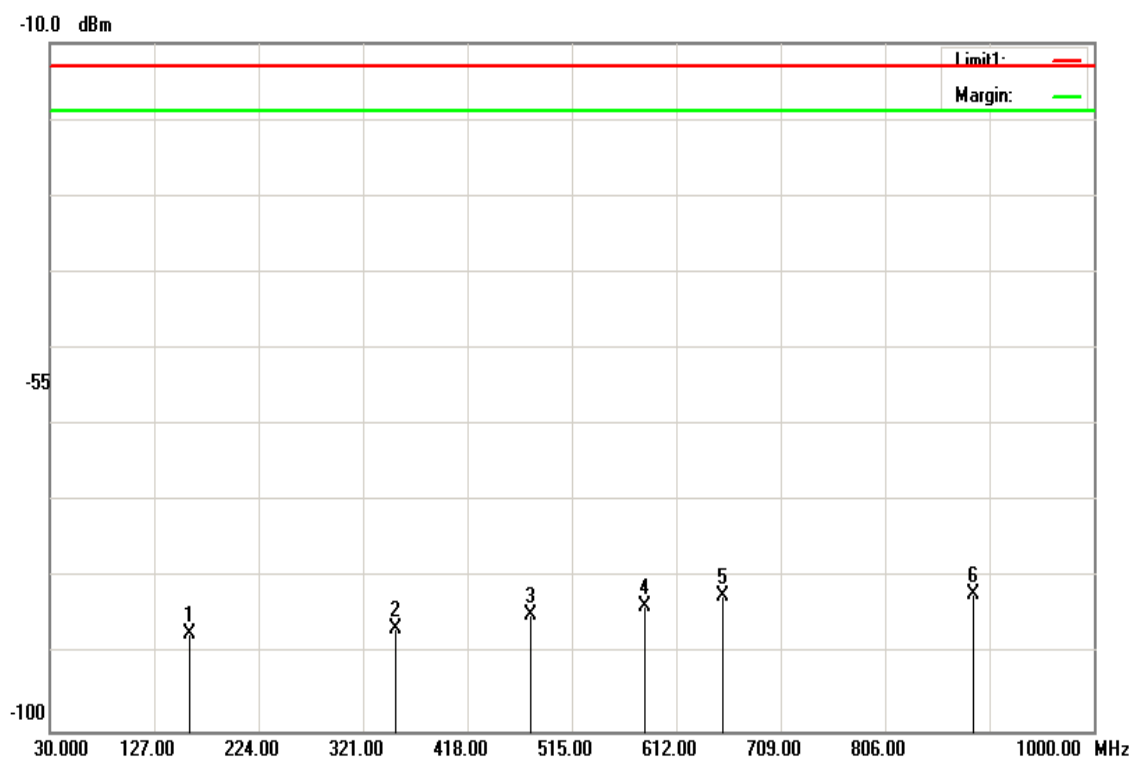
Operation Mode: Tx / Mid CH I

Test Date: December 3, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.


Frequency (MHz)	S.G. (dBm)	Ant. Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
160.4650	-83.83	1.25	-87.23	-13.00	-74.23	H
351.0700	-82.55	1.87	-86.57	-13.00	-73.57	H
477.6550	-80.43	2.2	-84.78	-13.00	-71.78	H
583.3850	-79.19	2.43	-83.77	-13.00	-70.77	H
656.1350	-77.54	2.58	-82.27	-13.00	-69.27	H
888.4500	-76.84	3.04	-82.03	-13.00	-69.03	H



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Above 1GHz

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

Operation Mode: Tx / Low CH

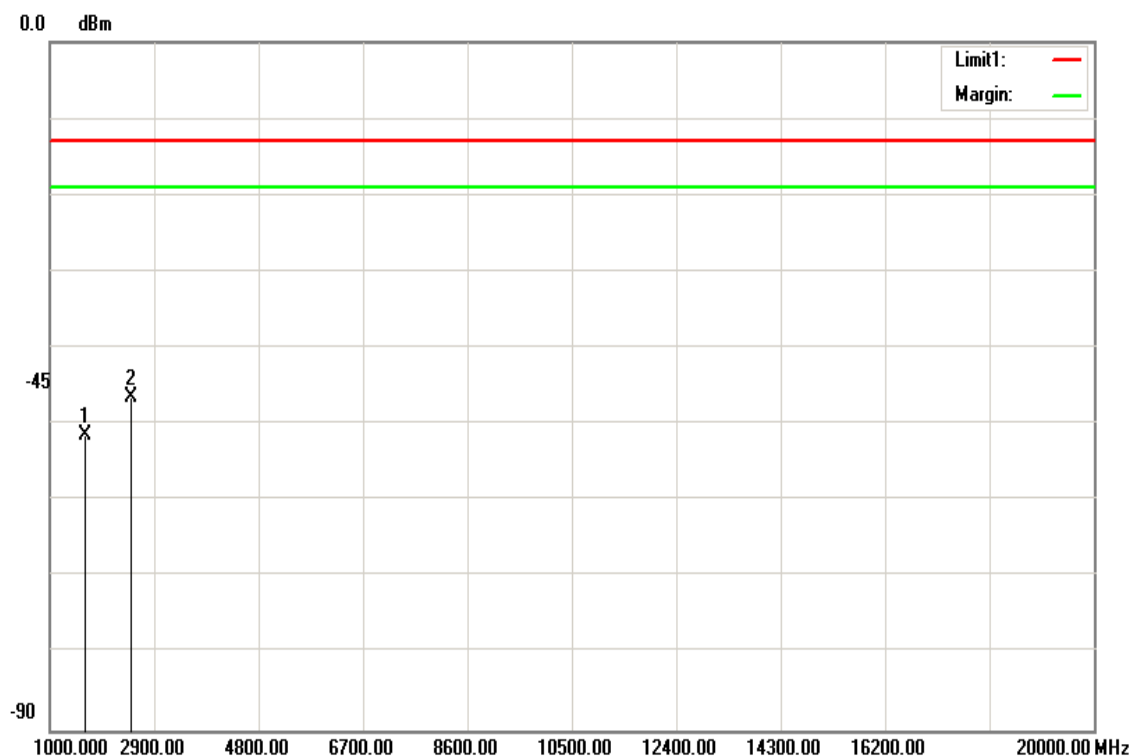
Test Date: December 3, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1647.500	-47.27	4.2	-51.47	-13.00	-38.47	V
2473.500	-41.19	5.3	-46.49	-13.00	-33.49	V
N/A						

Remark:

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

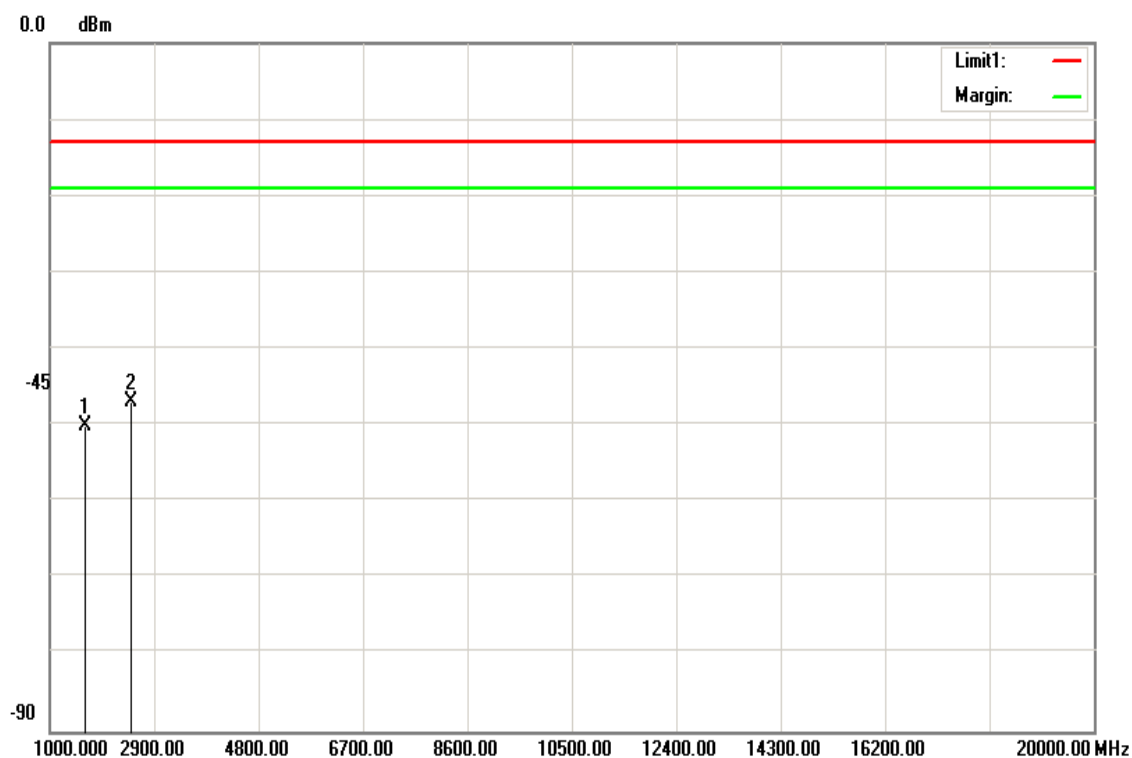
Operation Mode: Tx / Low CH

Test Date: December 3, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.


Frequency (MHz)	S.G. (dBm)	Ant. Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1647.500	-45.84	4.2	-50.04	-13.00	-37.04	H
2473.500	-41.51	5.3	-46.81	-13.00	-33.81	H
N/A						

Remark:

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

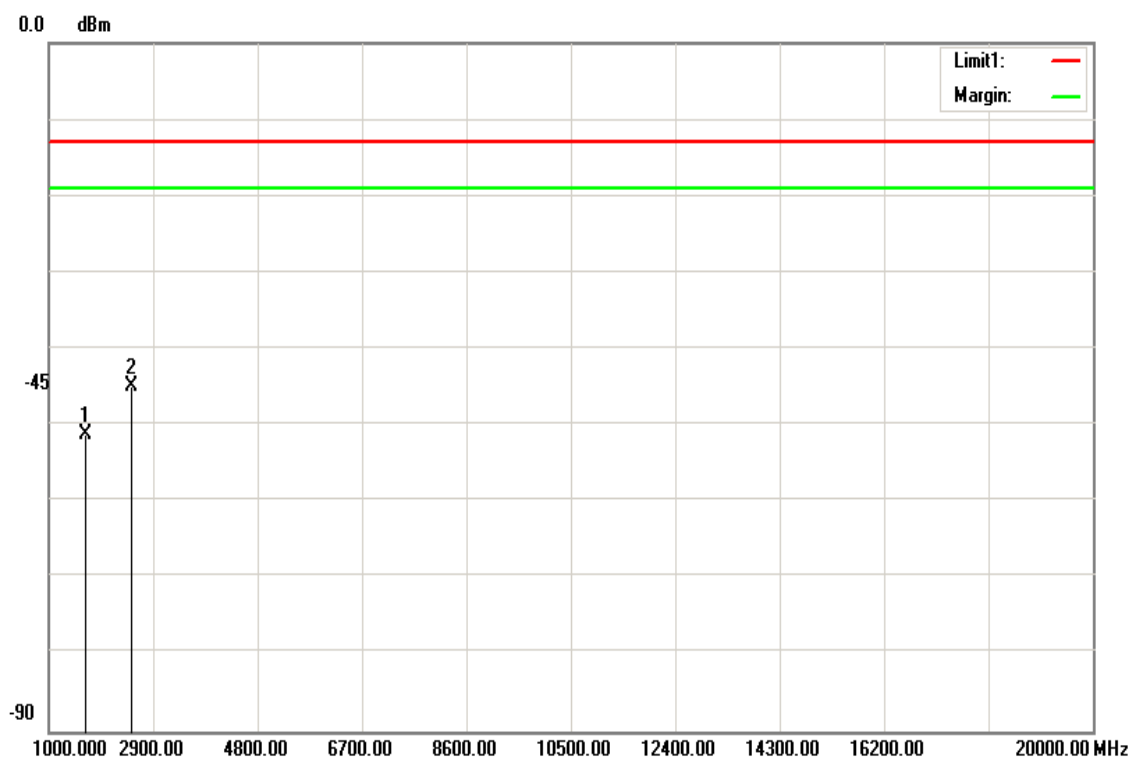
Operation Mode: Tx / Mid CH

Test Date: December 3, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Ver.


Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1665.000	-46.92	4.22	-51.14	-13.00	-38.14	V
2498.000	-39.51	5.33	-44.84	-13.00	-31.84	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

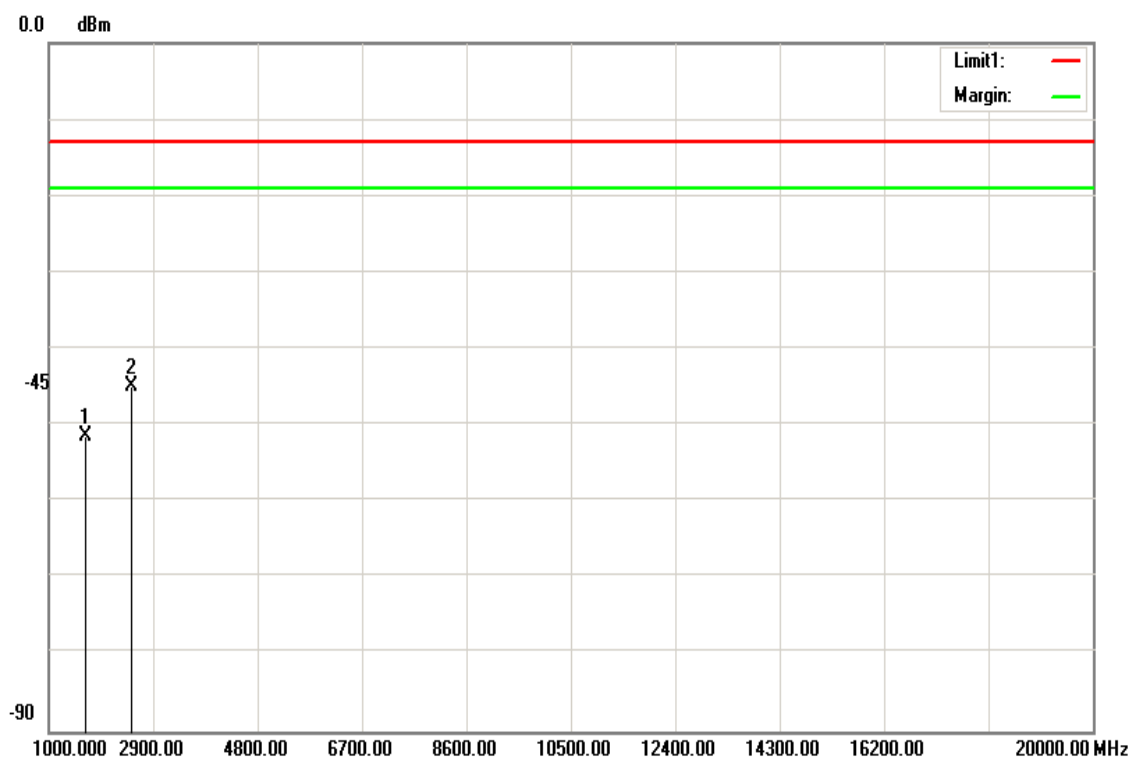
Test Date: December 3, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1665.000	-47.27	4.22	-51.49	-13.00	-38.49	H
2498.000	-39.63	5.33	-44.96	-13.00	-31.96	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

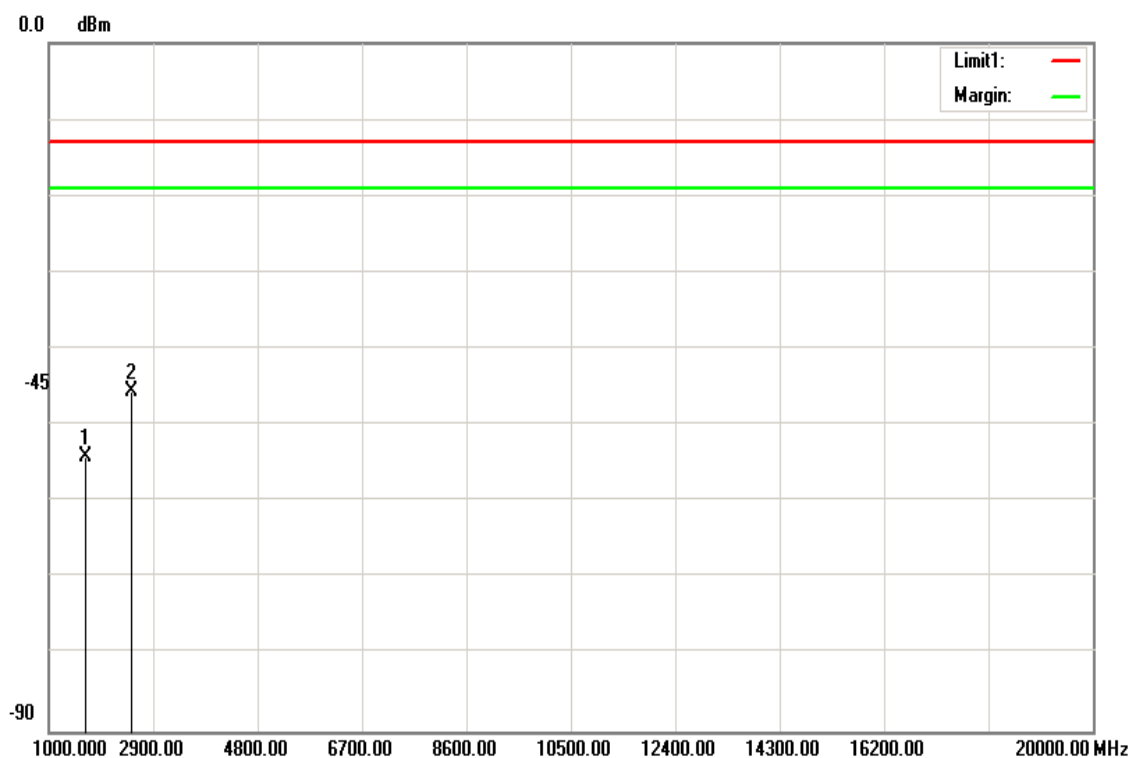
Test Date: December 3, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1679.000	-49.89	4.24	-54.13	-13.00	-41.13	V
2519.000	-40.17	5.35	-45.52	-13.00	-32.52	V
N/A						

Remark:

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

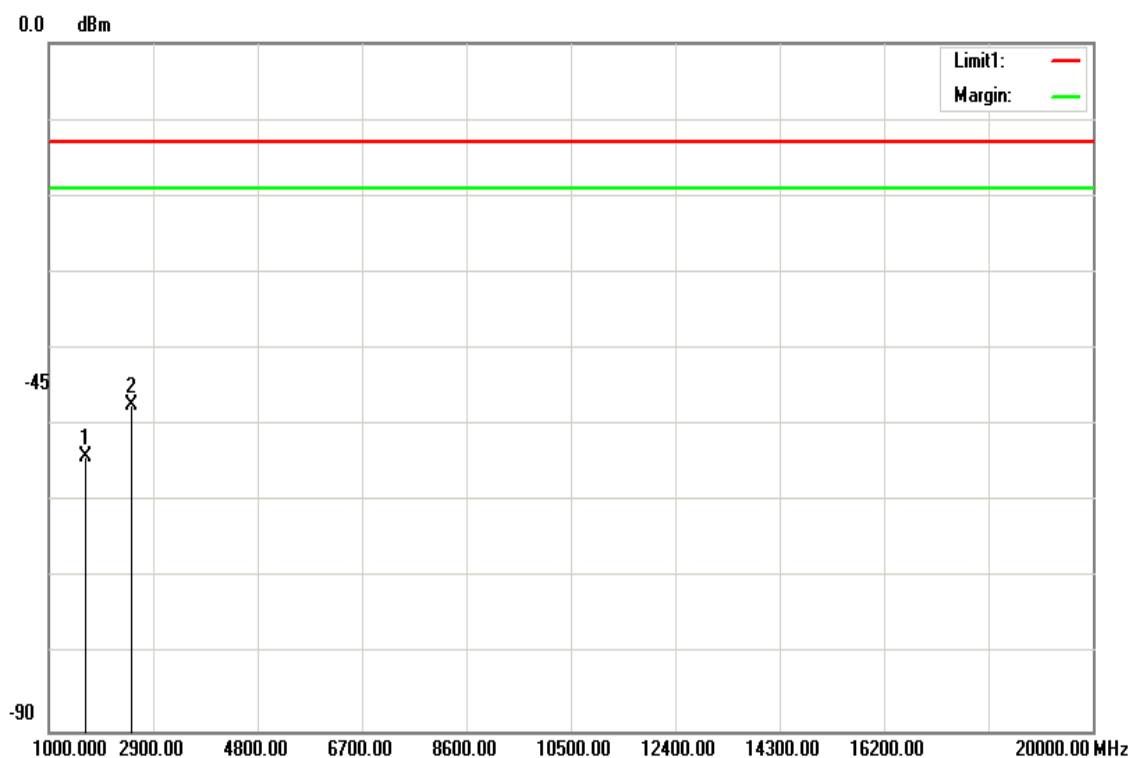
Operation Mode: Tx / High CH

Test Date: December 3, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.


Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1679.000	-49.78	4.24	-54.02	-13.00	-41.02	H
2519.000	-41.92	5.35	-47.27	-13.00	-34.27	H
N/A						

Remark:

- 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

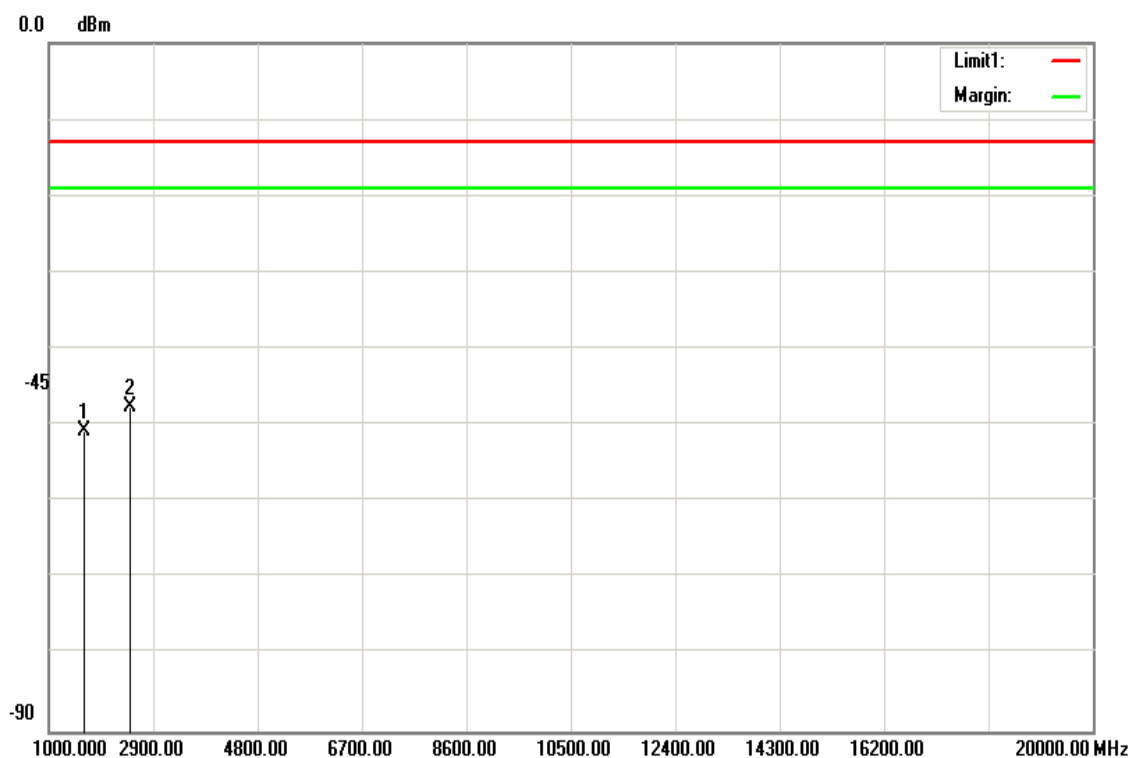
Test Date: December 3, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1651.000	-46.47	4.2	-50.67	-13.00	-37.67	V
2473.500	-42.2	5.3	-47.50	-13.00	-34.50	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

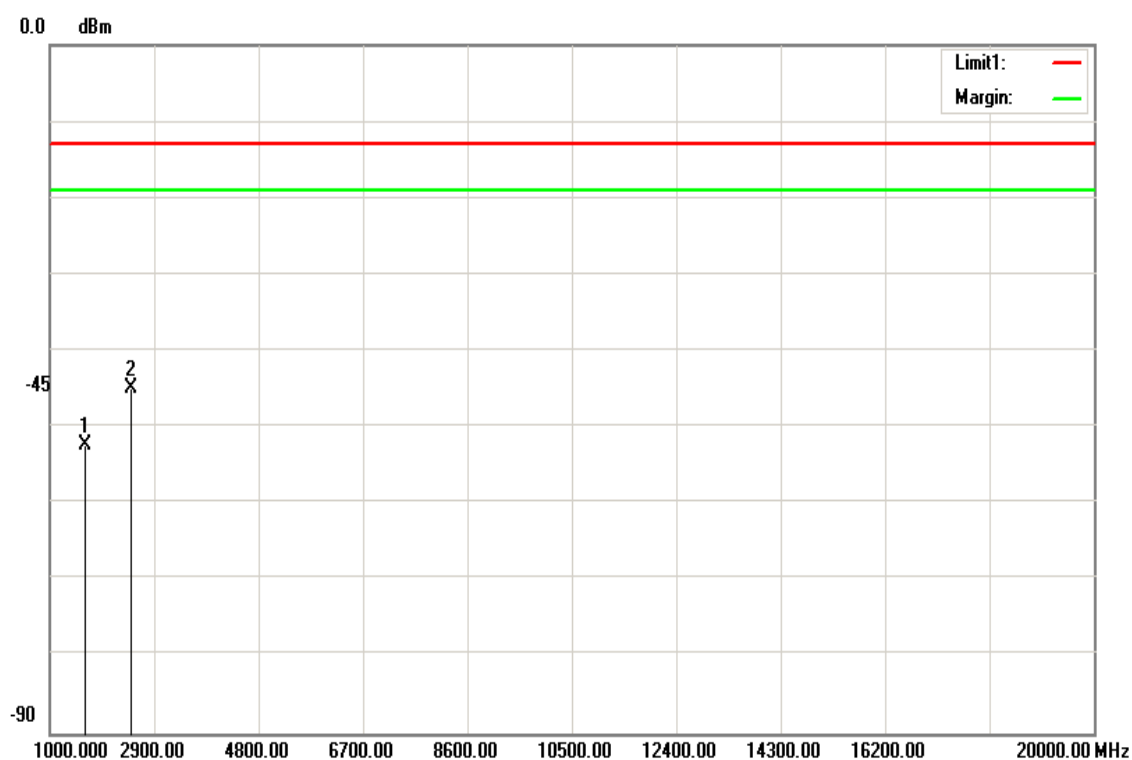
Test Date: December 3, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1647.500	-48	4.2	-52.20	-13.00	-39.20	H
2473.500	-39.61	5.3	-44.91	-13.00	-31.91	H
N/A						

Remark:

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

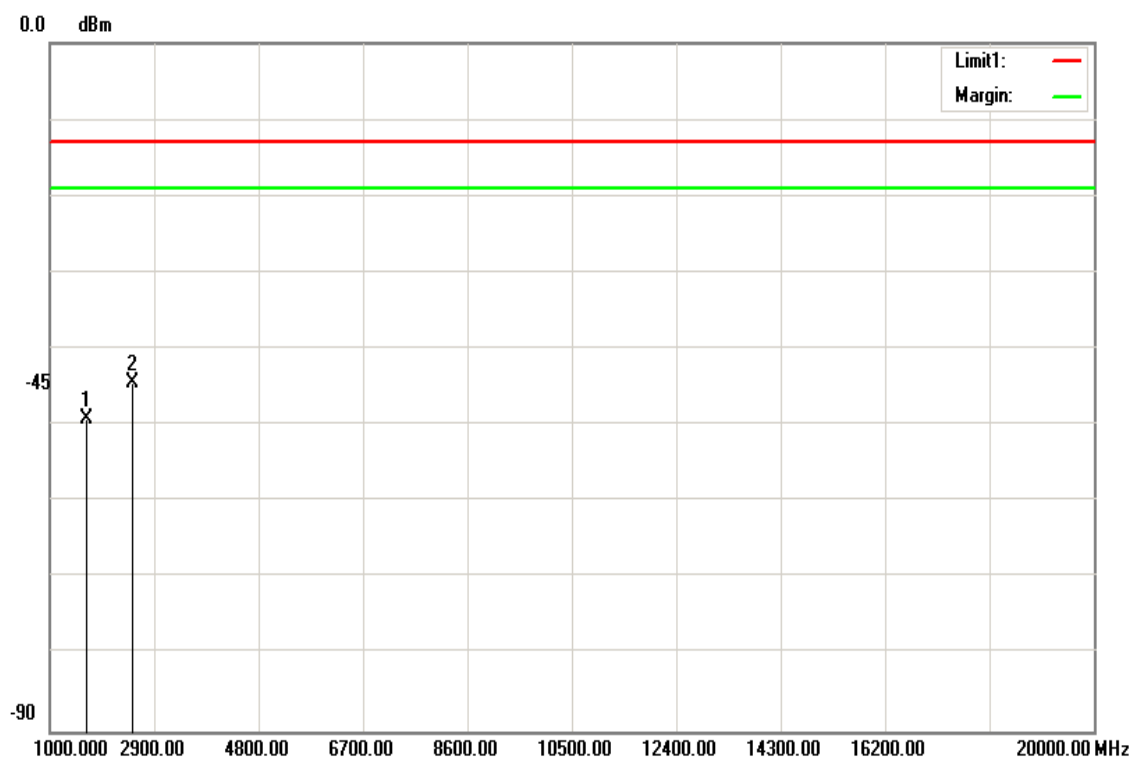
Operation Mode: Tx / Mid CH

Test Date: December 3, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Ver.


Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1665.000	-45.03	4.22	-49.25	-13.00	-36.25	V
2498.000	-39.16	5.33	-44.49	-13.00	-31.49	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

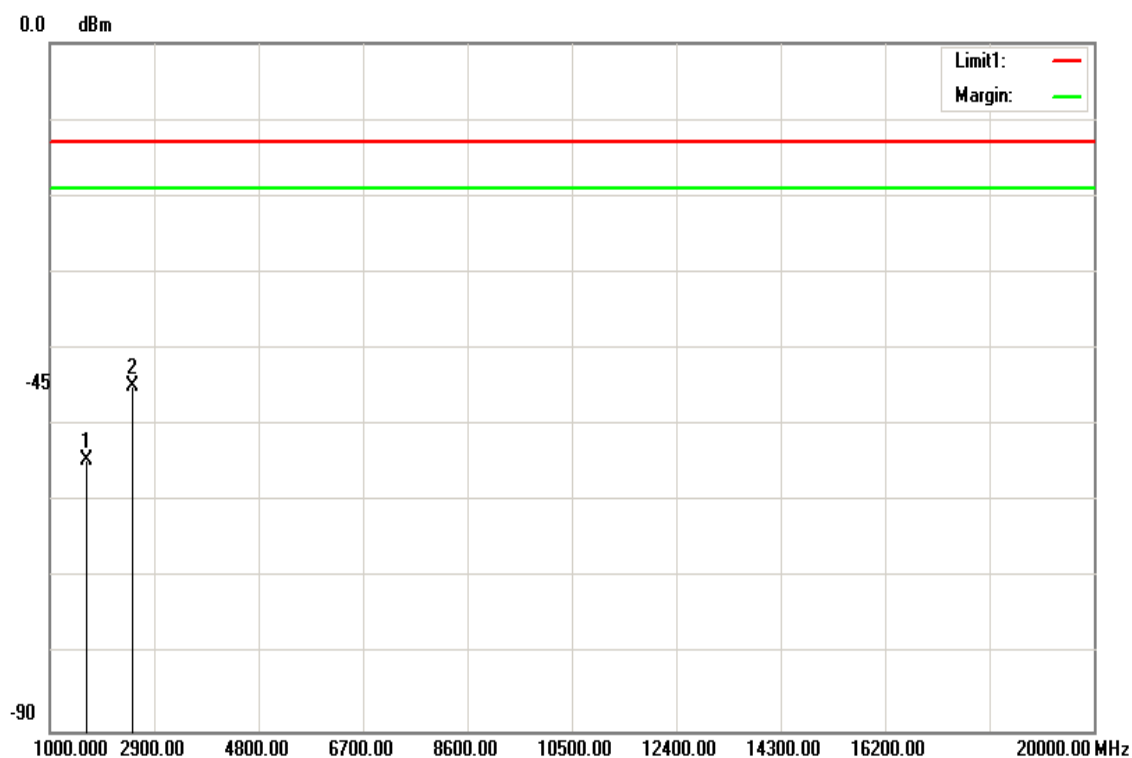
Test Date: December 3, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1665.000	-50.41	4.22	-54.63	-13.00	-41.63	H
2498.000	-39.53	5.33	-44.86	-13.00	-31.86	H
N/A						

Remark:

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

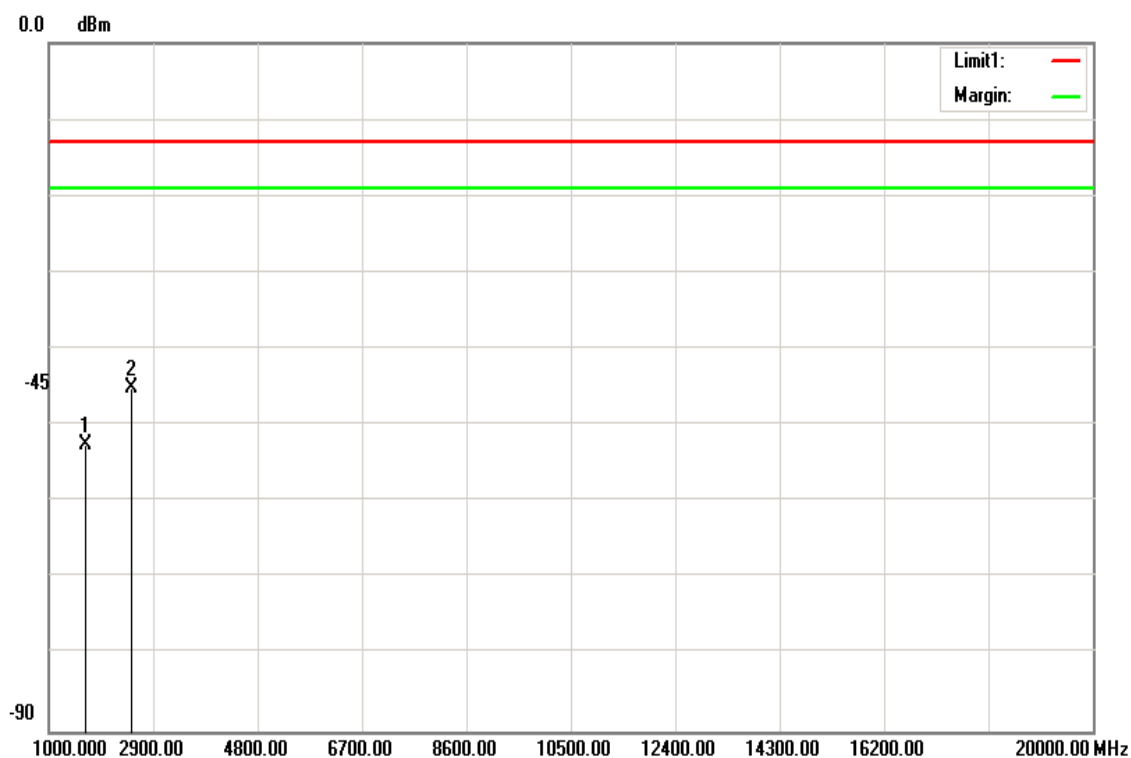
Operation Mode: Tx / High CH

Test Date: December 3, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Ver.


Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1679.000	-48.25	4.24	-52.49	-13.00	-39.49	V
2519.000	-39.71	5.35	-45.06	-13.00	-32.06	V
N/A						

Remark:

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



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Operation Mode: Tx / High CH

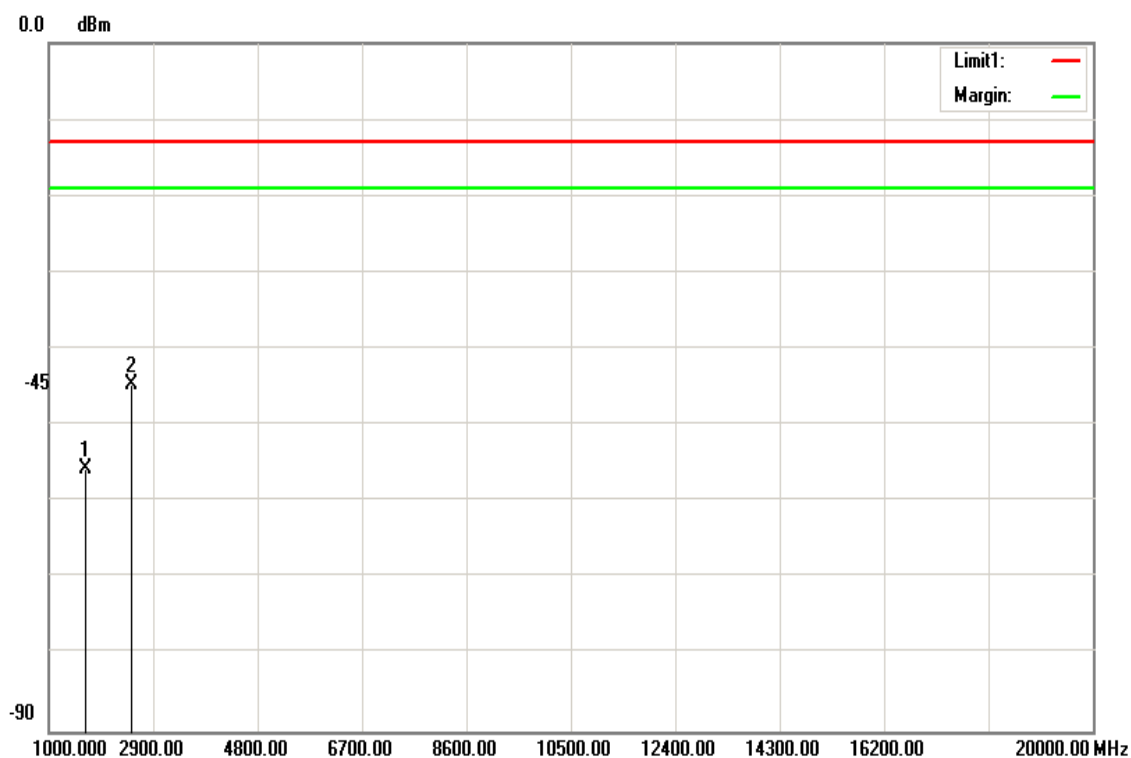
Test Date: December 3, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1679.000	-51.52	4.24	-55.76	-13.00	-42.76	H
2519.000	-39.34	5.35	-44.69	-13.00	-31.69	H
N/A						

Remark:

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

Below 1GHz

LTE Band 25 / BW: 20MHz / QPSK / RB =1, RB Offset = 0

Operation Mode: Tx / Mid CH

Test Date:

December 6, 2018

Temperature: 22°C

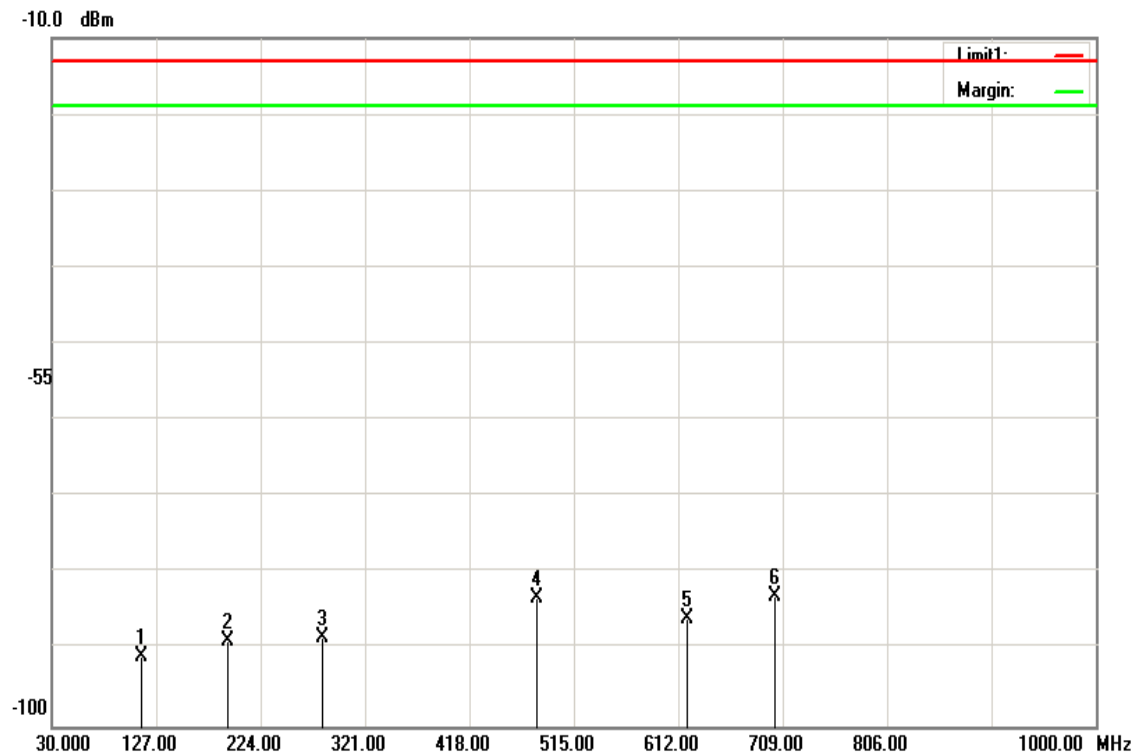
Tested by:

Jerry Chuang

Humidity: 48% RH

Polarity:

Ver.

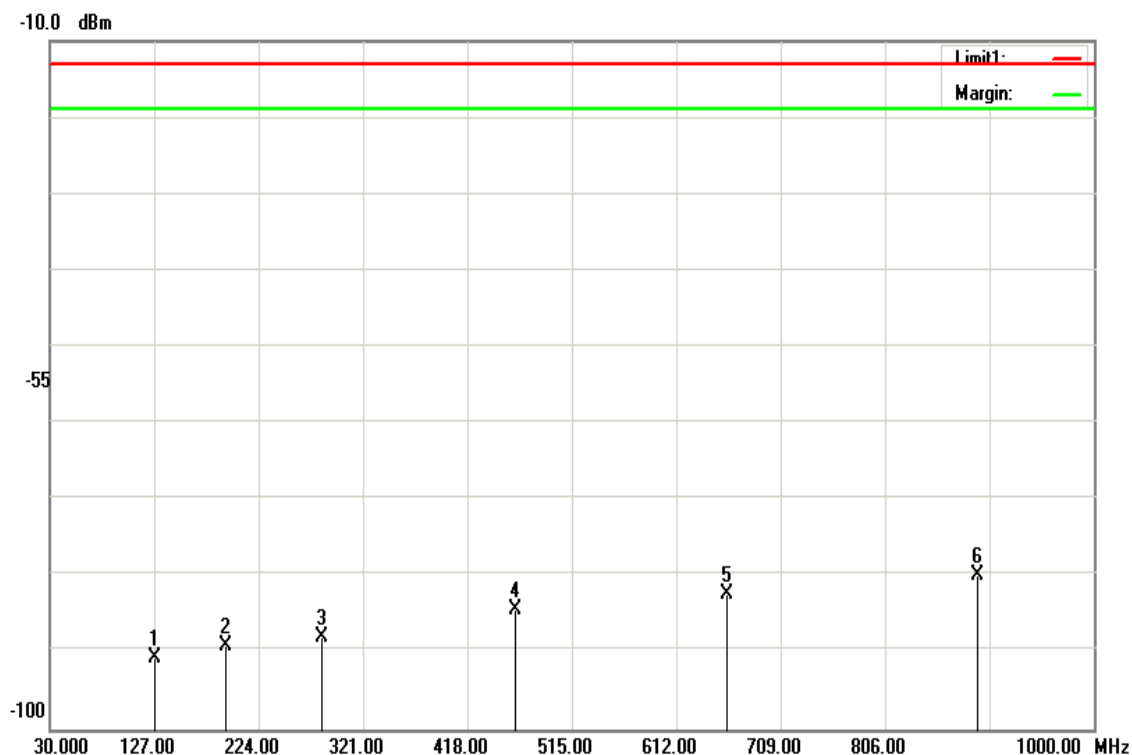


Frequency (MHz)	S.G. (dBm)	Ant. Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
113.9050	-87.65	1.06	-90.86	-13.00	-77.86	V
192.9600	-85.41	1.38	-88.94	-13.00	-75.94	V
281.2300	-84.57	1.66	-88.38	-13.00	-75.38	V
480.5650	-78.94	2.2	-83.29	-13.00	-70.29	V
619.7600	-81.18	2.51	-85.84	-13.00	-72.84	V
701.7250	-78.17	2.68	-83.00	-13.00	-70.00	V

Note: We selected worst case to performed test, The results can be meet other mode.

Operation Mode: Tx / Mid CH
Temperature: 22°C
Humidity: 48% RH

Test Date: December 6, 2018
Tested by: Jerry Chuang
Polarity: Hor.



Frequency (MHz)	S.G. (dBm)	Ant. Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
127.4850	-87.44	1.12	-90.71	-13.00	-77.71	H
193.9300	-85.61	1.38	-89.14	-13.00	-76.14	H
282.2000	-84.12	1.67	-87.94	-13.00	-74.94	H
463.1050	-80.08	2.16	-84.39	-13.00	-71.39	H
658.5600	-77.65	2.59	-82.39	-13.00	-69.39	H
891.3600	-74.67	3.04	-79.86	-13.00	-66.86	H

Note: We selected worst case to performed test, The results can be meet other mode.

LTE Band 25 / BW: 20MHz / 16QAM / RB =1, RB Offset = 0

Operation Mode: Tx / Mid CH

Test Date:

December 6, 2018

Temperature: 22°C

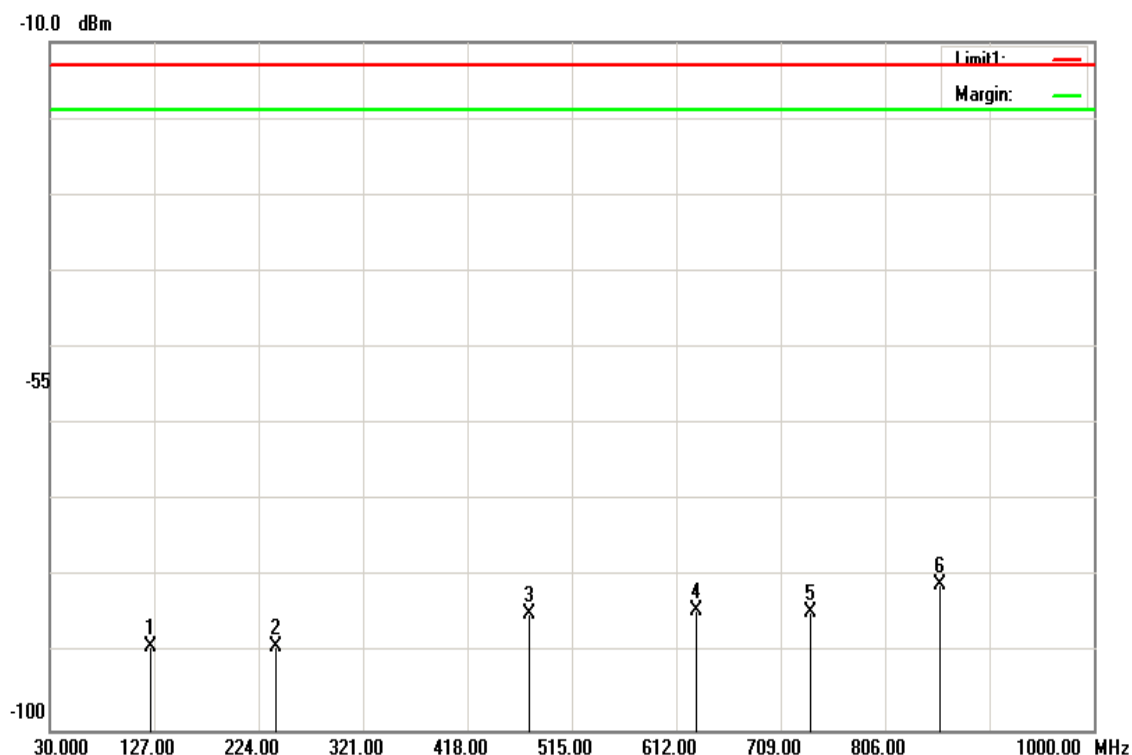
Tested by:

Jerry Chuang

Humidity: 48% RH

Polarity:

Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
124.5750	-85.91	1.11	-89.17	-13.00	-76.17	V
240.4900	-85.4	1.53	-89.08	-13.00	-76.08	V
475.7150	-80.37	2.19	-84.71	-13.00	-71.71	V
630.9150	-79.74	2.53	-84.42	-13.00	-71.42	V
736.6450	-79.71	2.75	-84.61	-13.00	-71.61	V
857.8950	-75.87	2.98	-81.00	-13.00	-68.00	V

Note: We selected worst case to performed test, The results can be meet other mode.

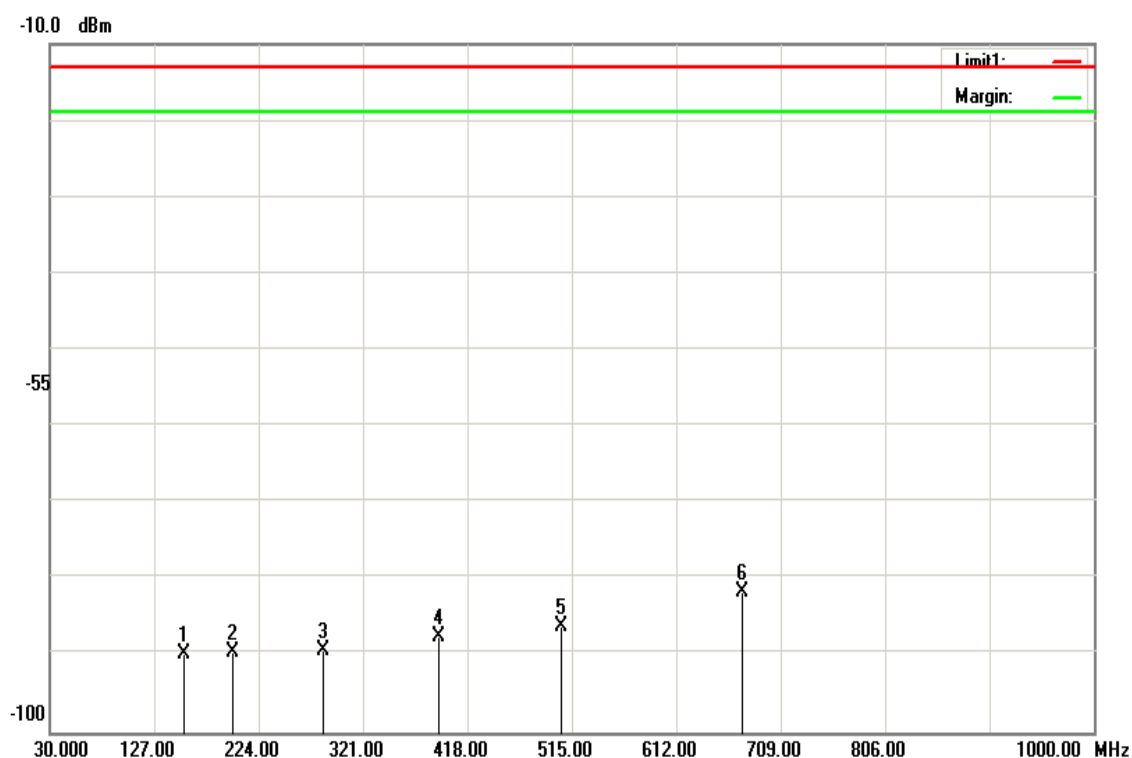
Operation Mode: Tx / Mid CH

Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.


Frequency (MHz)	S.G. (dBm)	Ant. Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
154.6450	-86.35	1.23	-89.73	-13.00	-76.73	H
200.2350	-85.96	1.4	-89.51	-13.00	-76.51	H
284.1400	-85.43	1.67	-89.25	-13.00	-76.25	H
390.8400	-83.39	1.98	-87.52	-13.00	-74.52	H
505.3000	-81.73	2.26	-86.14	-13.00	-73.14	H
673.1100	-76.84	2.62	-81.61	-13.00	-68.61	H

Note: We selected worst case to performed test, The results can be meet other mode.



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Above 1GHz

LTE Band 25 / BW: 20MHz / QPSK RB =1, RB Offset = 0

Operation Mode: Tx / Low CH

Test Date:

December 6, 2018

Temperature: 22°C

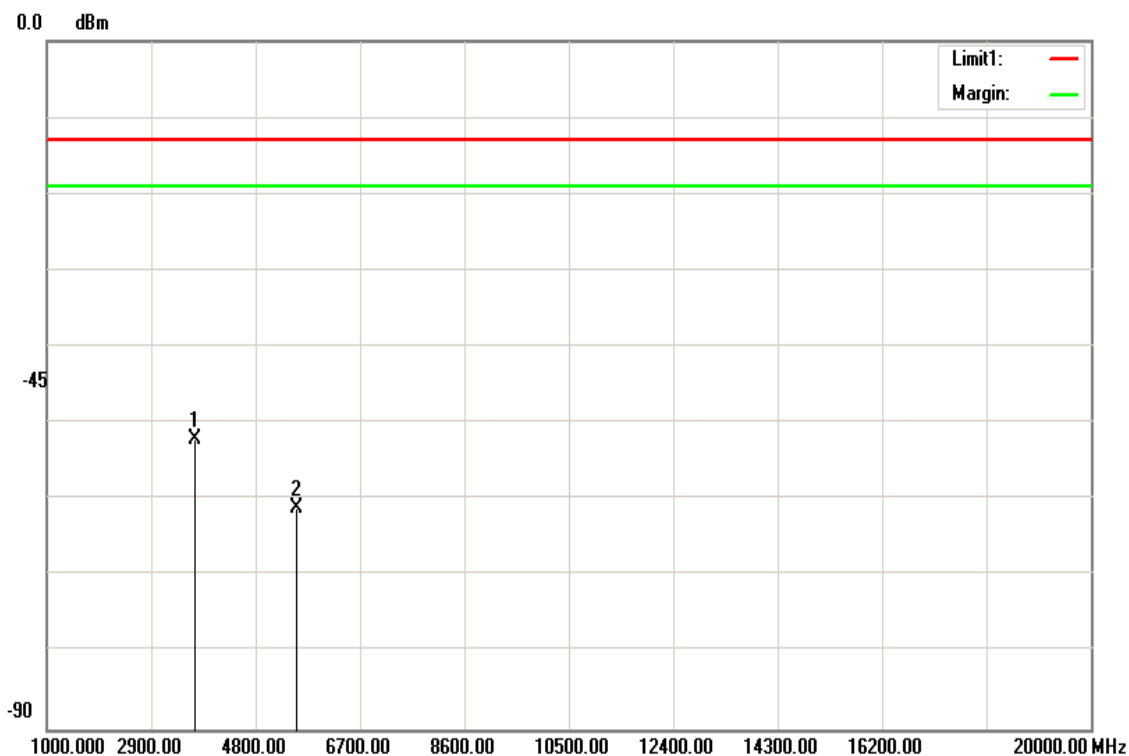
Tested by:

Jerry Chuang

Humidity: 48% RH

Polarity:

Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-45.53	6.63	-52.16	-13.00	-39.16	V
5553.500	-52.88	8.29	-61.17	-13.00	-48.17	V
N/A						

Remark:

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

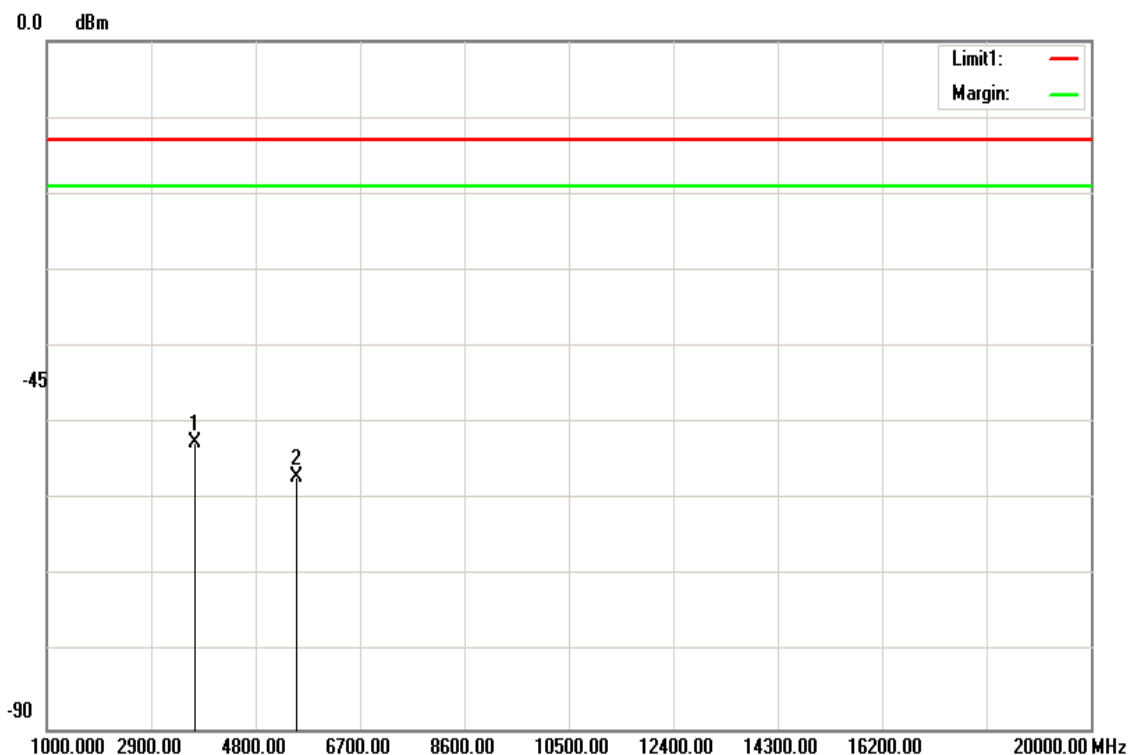
Operation Mode: Tx / Low CH

Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.


Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-45.87	6.63	-52.50	-13.00	-39.50	H
5553.500	-48.81	8.29	-57.10	-13.00	-44.10	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

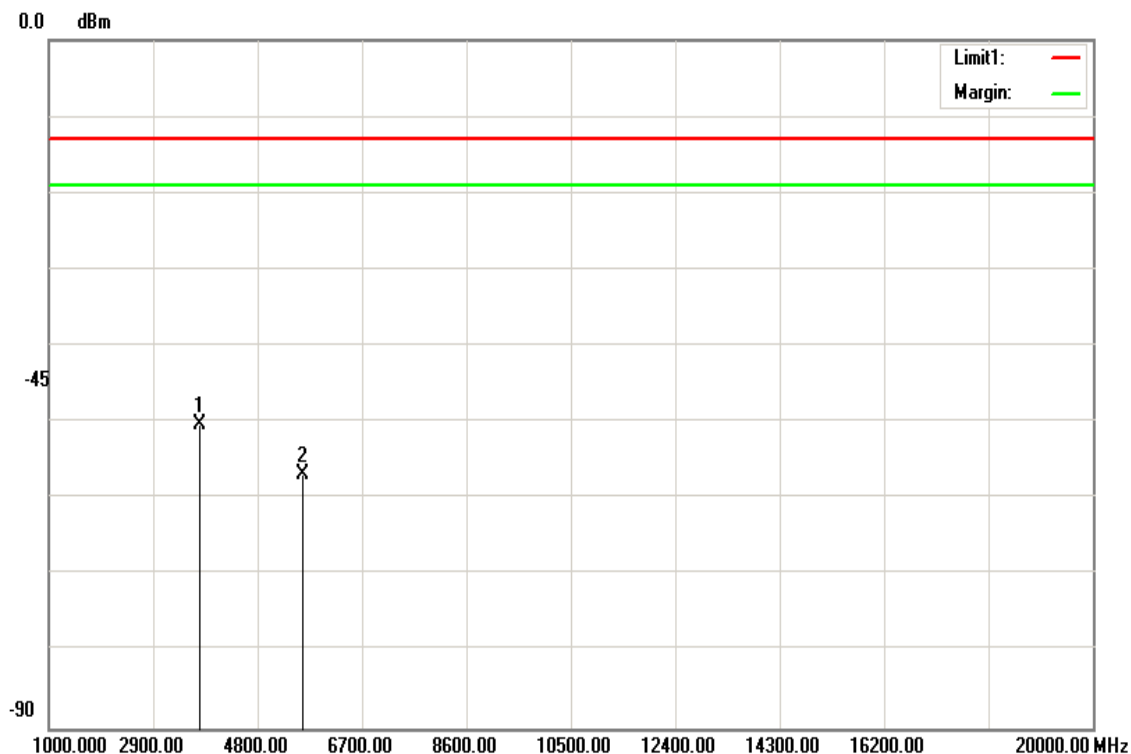
Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3747.500	-43.65	6.67	-50.32	-13.00	-37.32	V
5620.000	-48.5	8.35	-56.85	-13.00	-43.85	V
N/A						

Remark:

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

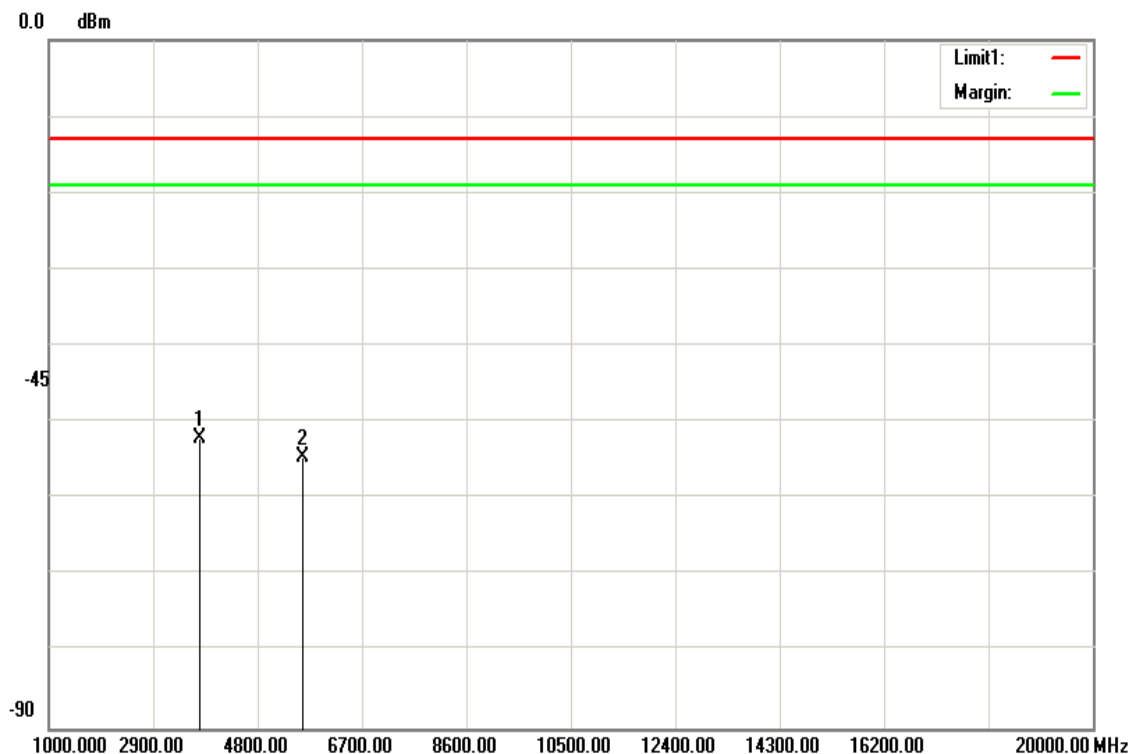
Operation Mode: Tx / Mid CH

Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.


Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3747.500	-45.38	6.67	-52.05	-13.00	-39.05	H
5620.000	-46.25	8.35	-54.60	-13.00	-41.60	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

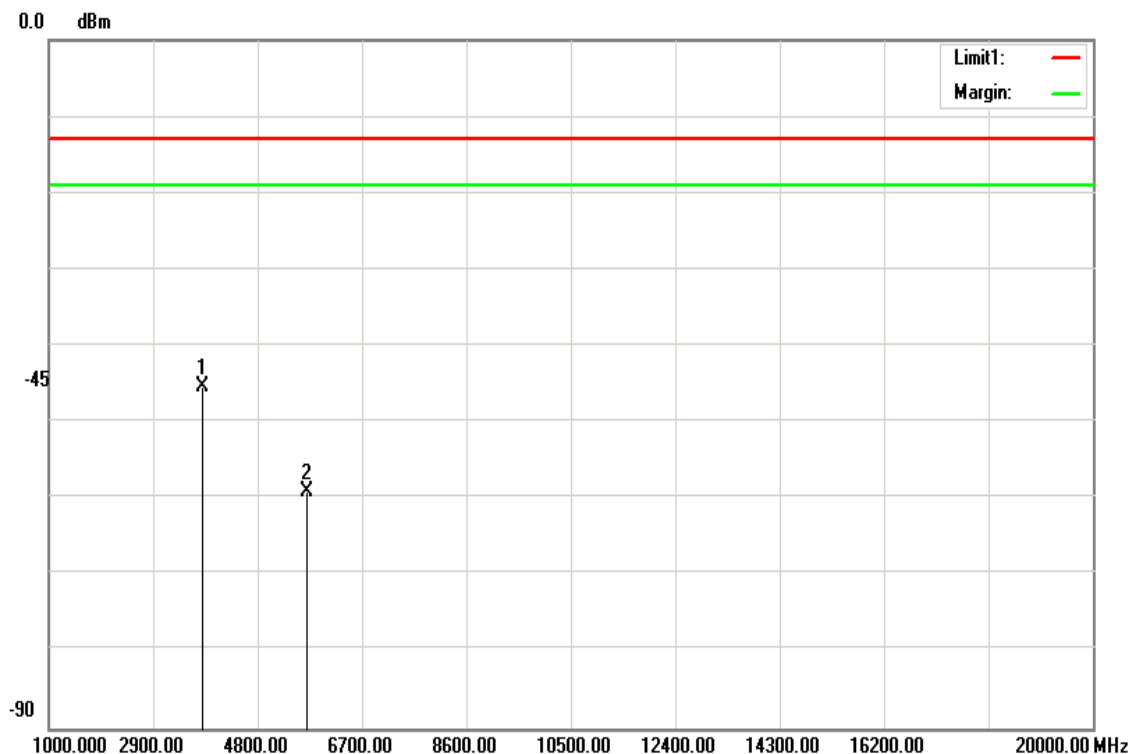
Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3793.000	-38.65	6.72	-45.37	-13.00	-32.37	V
5690.000	-50.58	8.41	-58.99	-13.00	-45.99	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

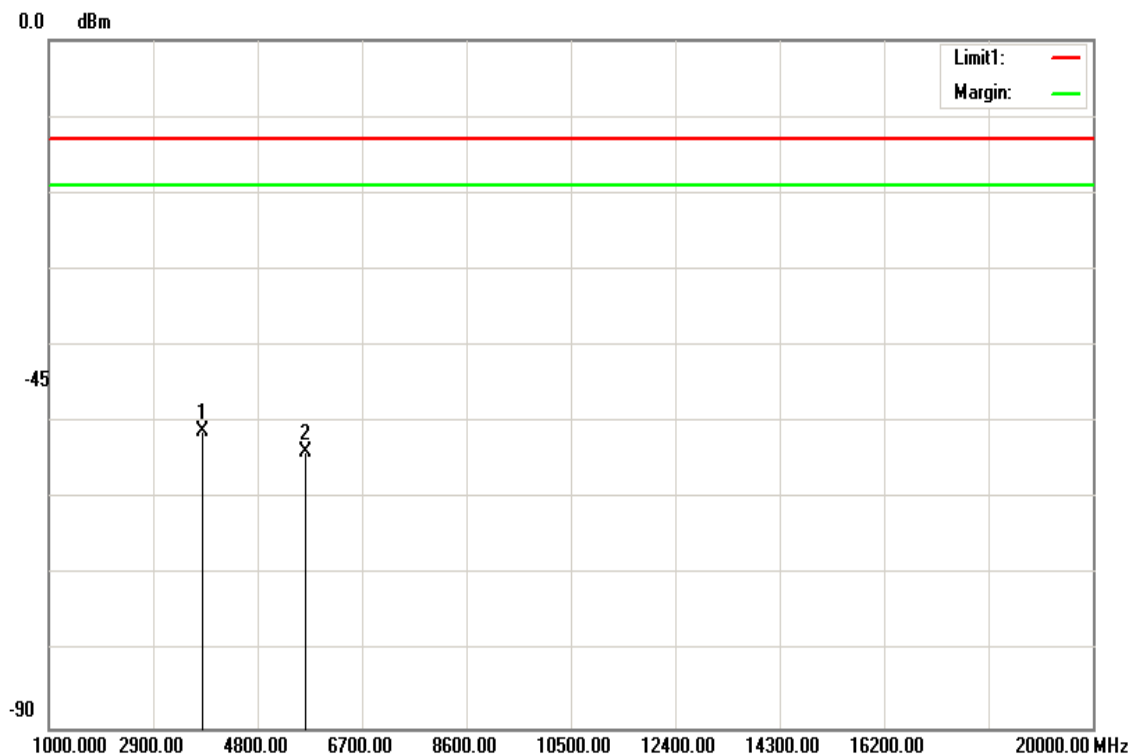
Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3793.000	-44.45	6.72	-51.17	-13.00	-38.17	H
5686.500	-45.53	8.41	-53.94	-13.00	-40.94	H
N/A						

Remark:

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

LTE Band 25 / BW: 20MHz / 16QAM / RB =1, RB Offset = 0
Operation Mode: Tx / Low CH

Test Date:

December 6, 2018

Temperature: 22°C

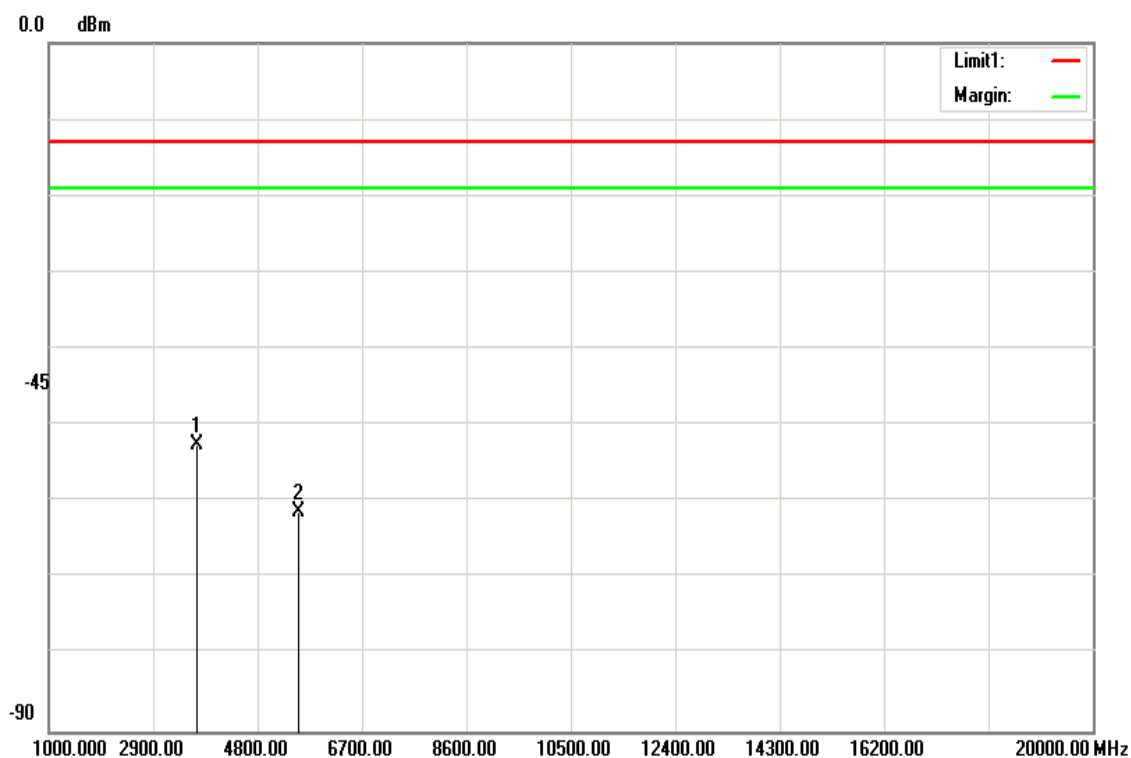
Tested by:

Jerry Chuang

Humidity: 48% RH

Polarity:

Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-45.8	6.63	-52.16	-13.00	-39.16	V
5553.500	-53.03	8.29	-56.63	-13.00	-43.63	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

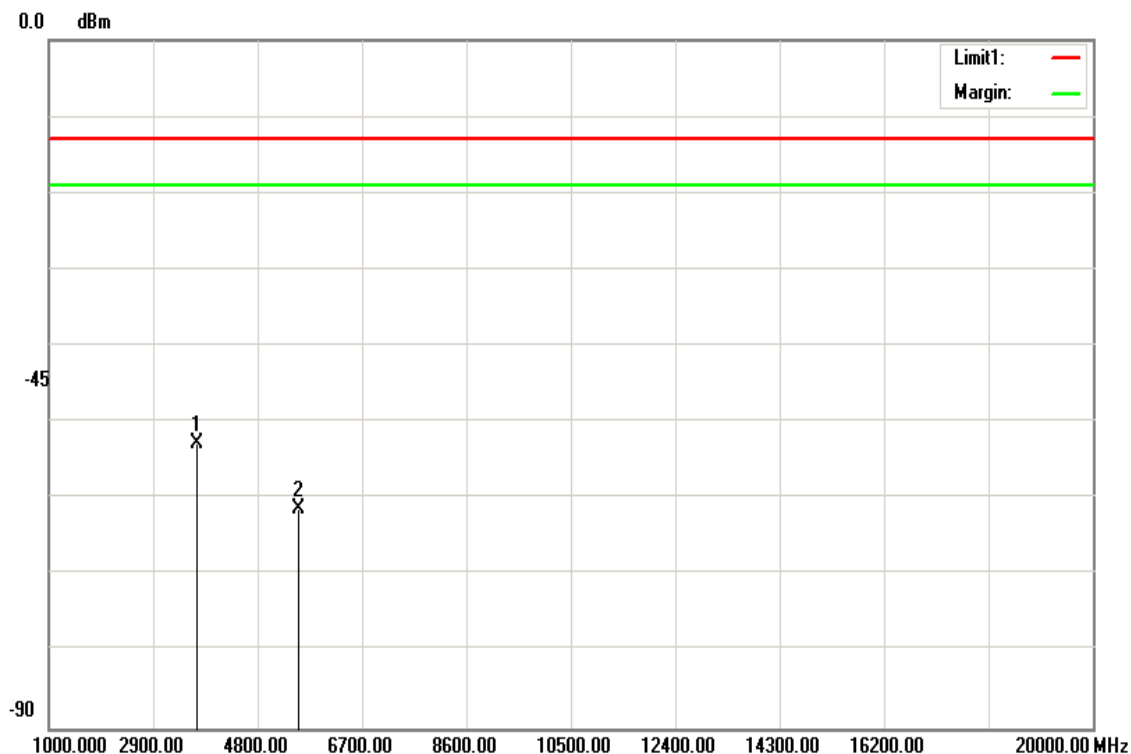
Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-46.22	6.63	-52.85	-13.00	-39.85	H
5553.500	-53.13	8.29	-61.42	-13.00	-48.42	H
N/A						

Remark:

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

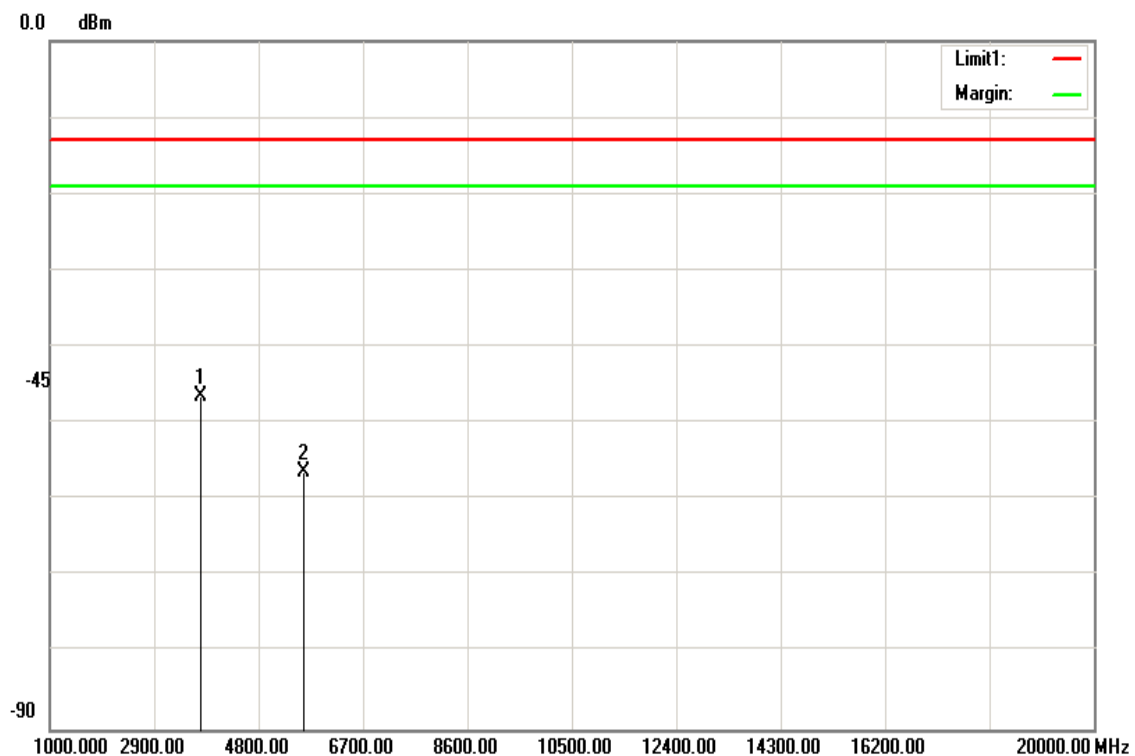


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Operation Mode: Tx / Mid CH
Temperature: 22°C
Humidity: 48% RH

Test Date: December 6, 2018
Tested by: Jerry Chuang
Polarity: Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3747.500	-39.86	6.67	-46.53	-13.00	-33.53	V
5620.000	-47.96	8.35	-56.31	-13.00	-43.31	V
N/A						

Remark:

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

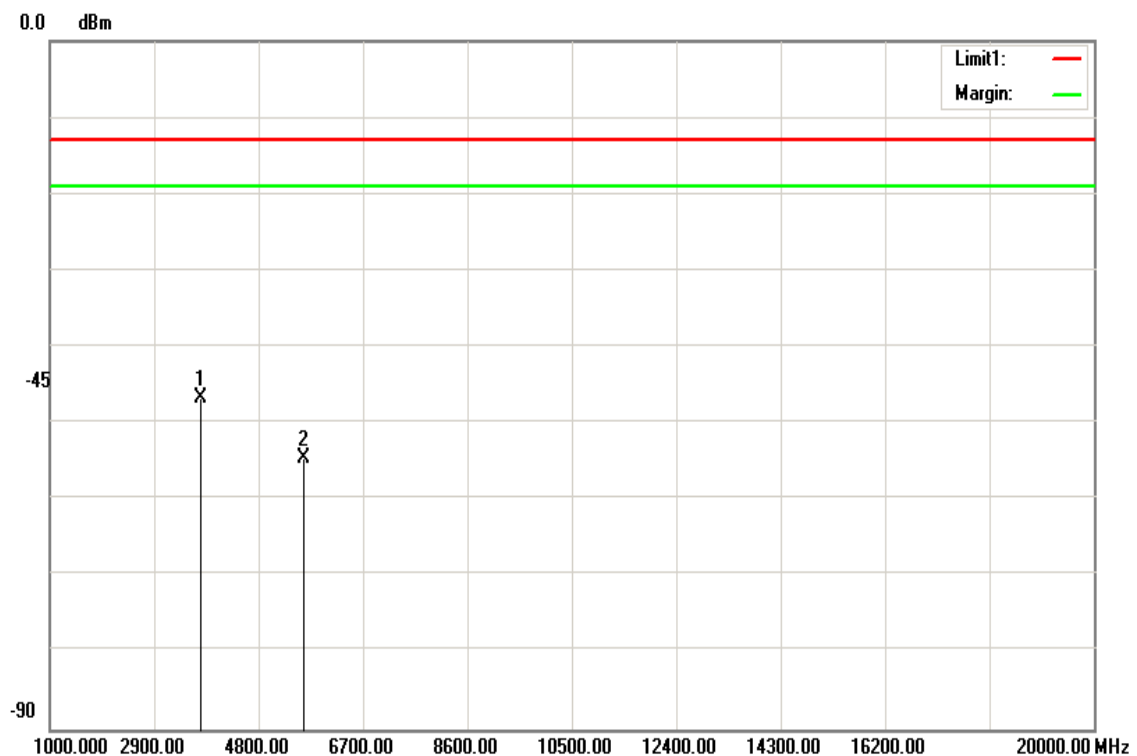


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Operation Mode: Tx / Mid CH
Temperature: 22°C
Humidity: 48% RH

Test Date: December 6, 2018
Tested by: Jerry Chuang
Polarity: Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3747.500	-40.08	6.67	-46.75	-13.00	-33.75	H
5620.000	-46.16	8.35	-54.51	-13.00	-41.51	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

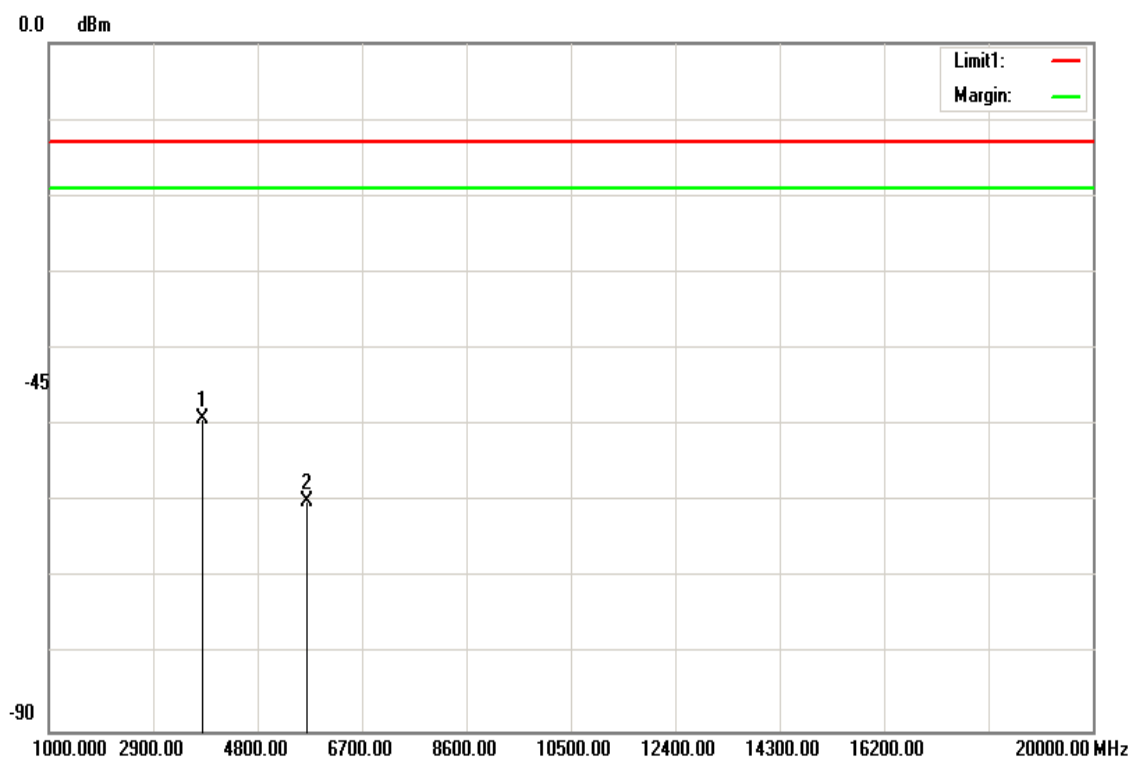
Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Ver.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3793.000	-42.54	6.72	-49.26	-13.00	-36.26	V
5690.000	-51.5	8.41	-59.91	-13.00	-46.91	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

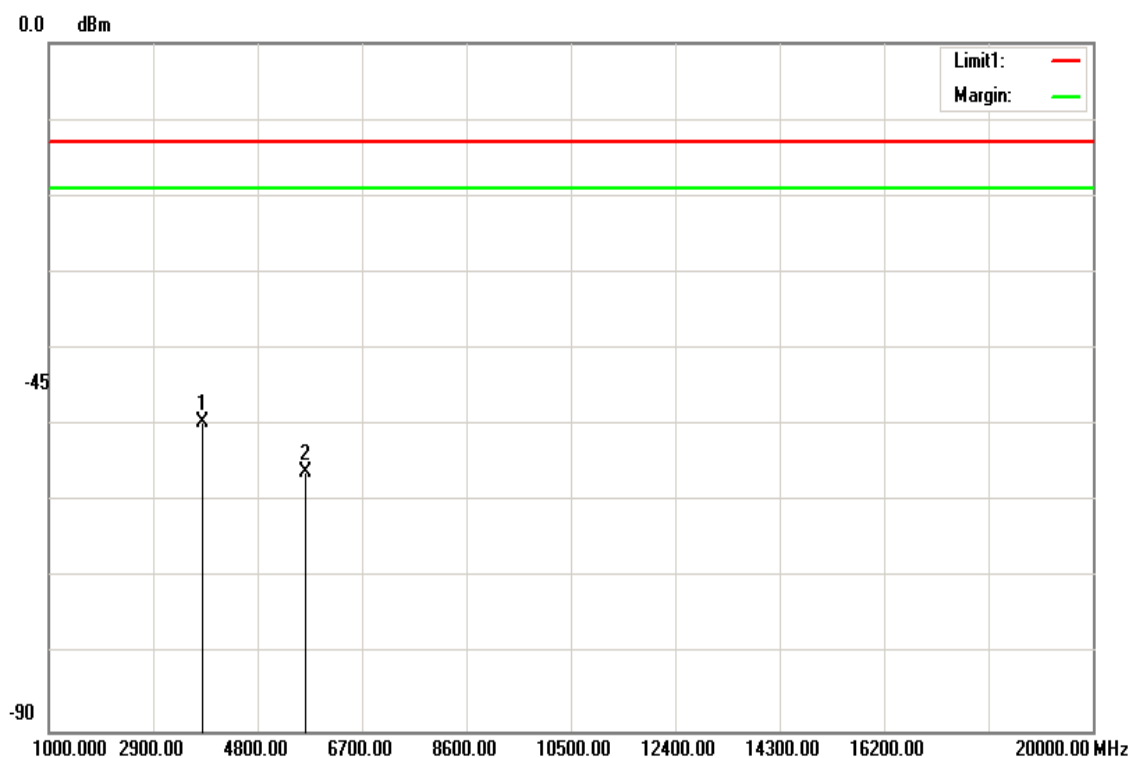
Test Date: December 6, 2018

Temperature: 22°C

Tested by: Jerry Chuang

Humidity: 48% RH

Polarity: Hor.



Frequency (MHz)	S.G. (dBm)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3793.000	-42.96	6.72	-49.68	-13.00	-36.68	H
5686.500	-47.75	8.41	-56.16	-13.00	-43.16	H
N/A						

Remark:

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

- End of Test Report -