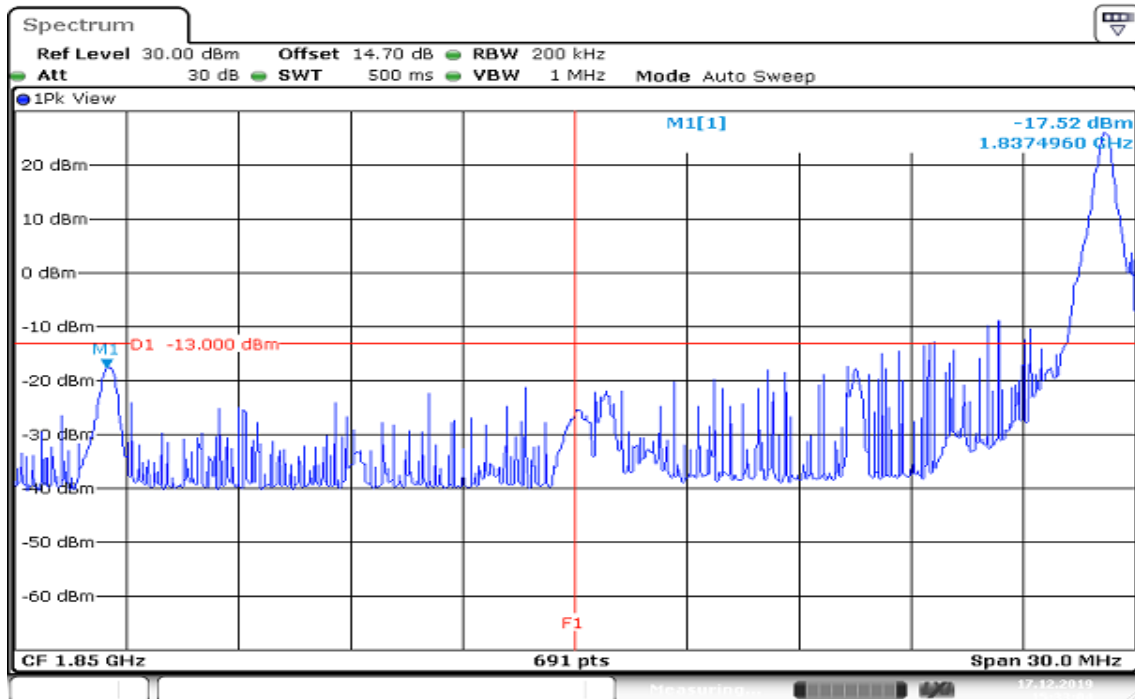
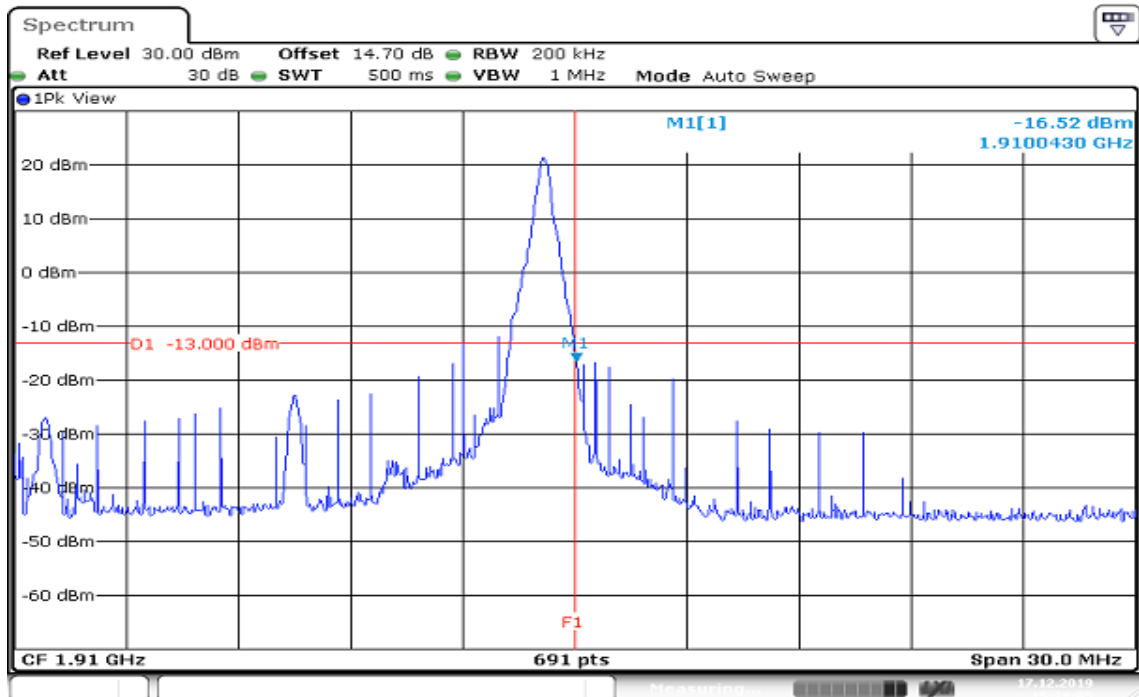
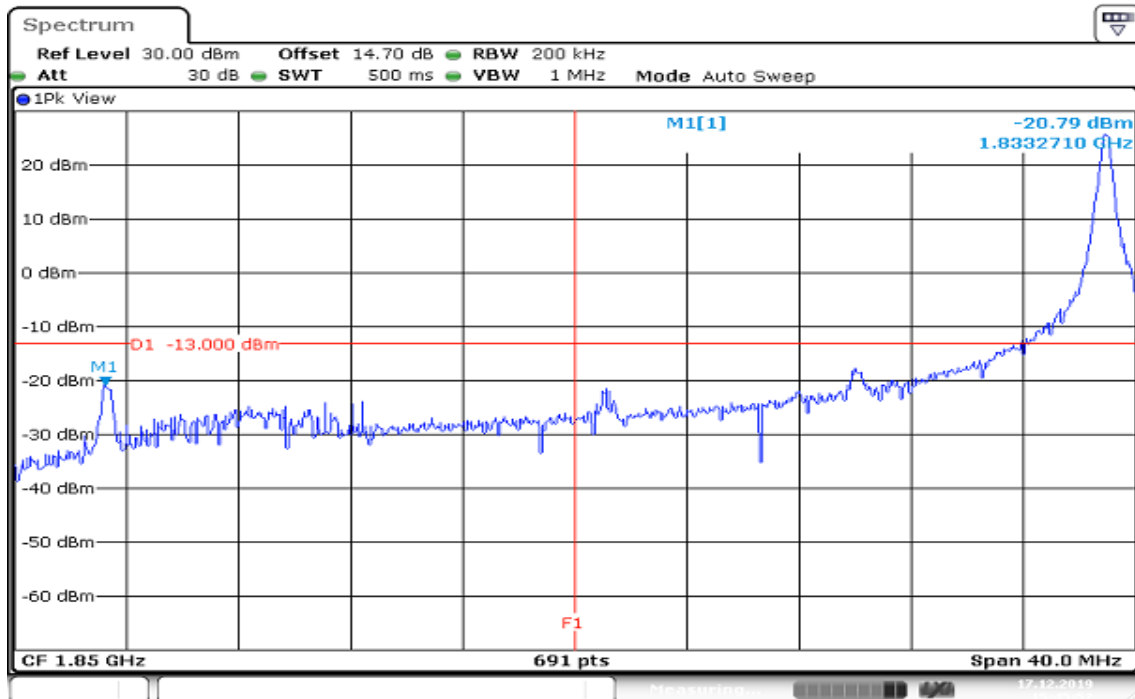


**CHANNEL BANDWIDTH: 15MHz / 16QAM / 1RB ALLOCATED
LOWER BAND EDGE**

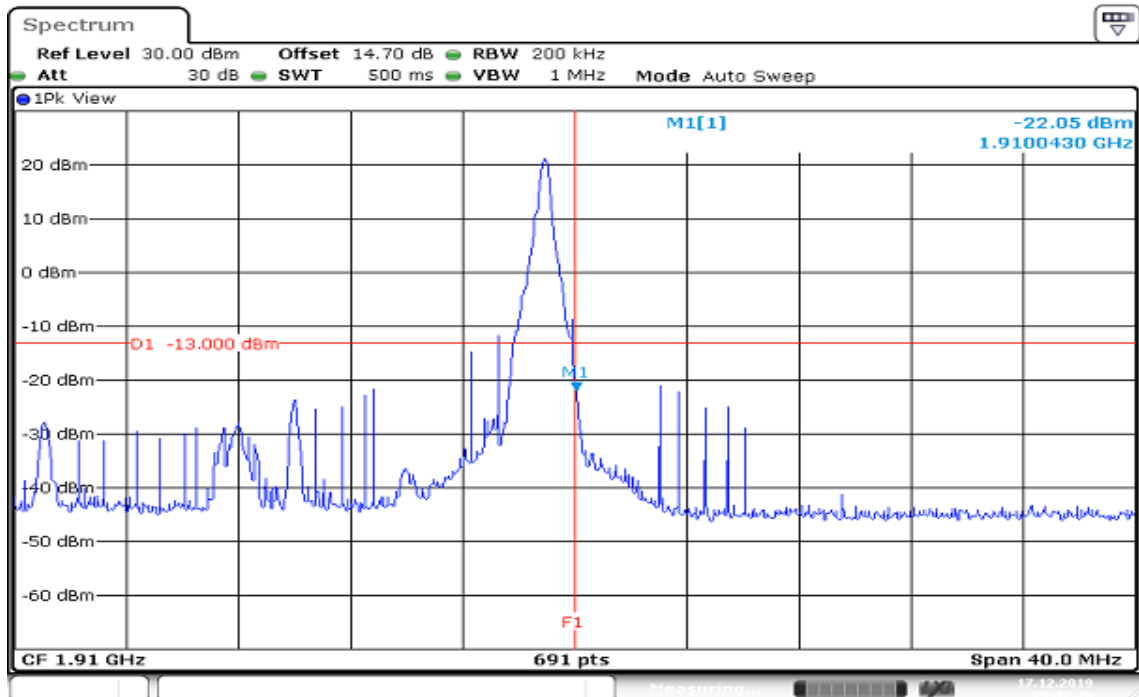
Date: 17.DEC.2019 15:33:04

HIGHER BAND EDGE

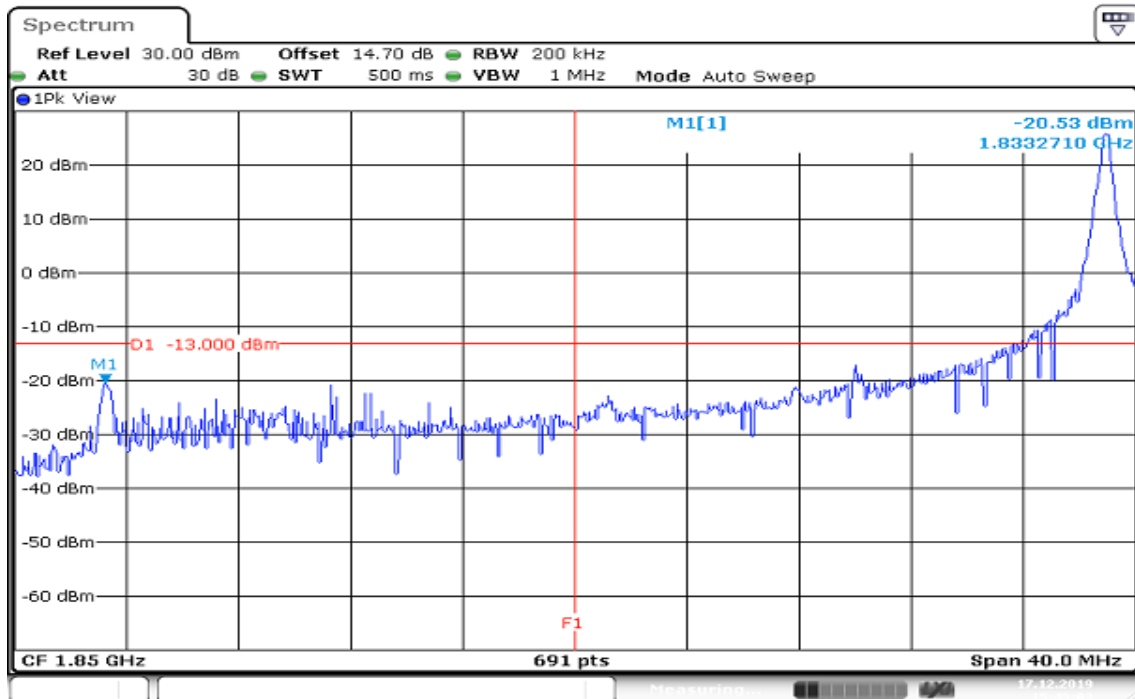
Date: 17.DEC.2019 15:38:06

**CHANNEL BANDWIDTH: 20MHz / QPSK / 1RB ALLOCATED
LOWER BAND EDGE**

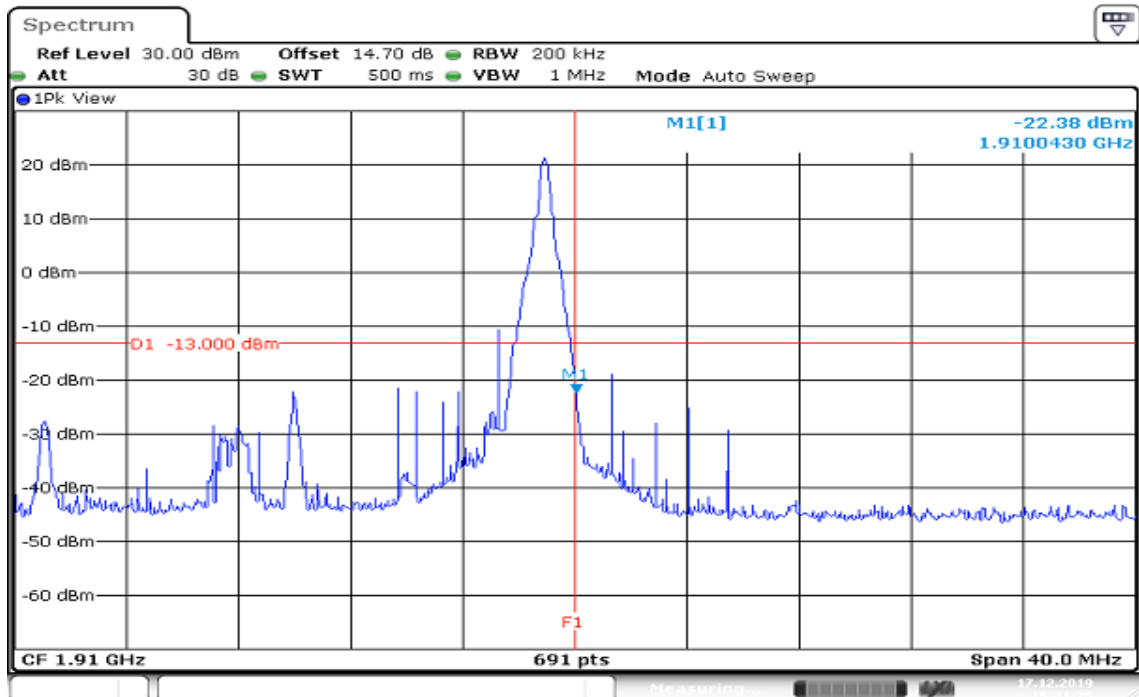
Date: 17.DEC.2019 15:45:53

HIGHER BAND EDGE

Date: 17.DEC.2019 15:42:21

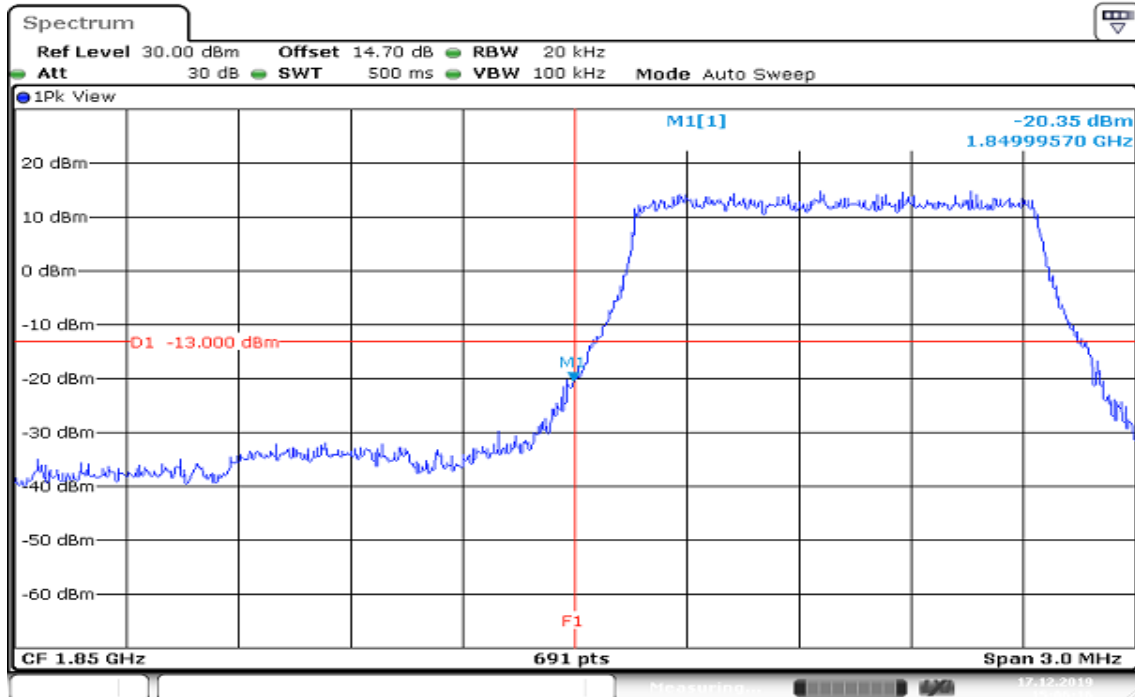
**CHANNEL BANDWIDTH: 20MHz / 16QAM / 1RB ALLOCATED
LOWER BAND EDGE**

Date: 17.DEC.2019 15:49:04

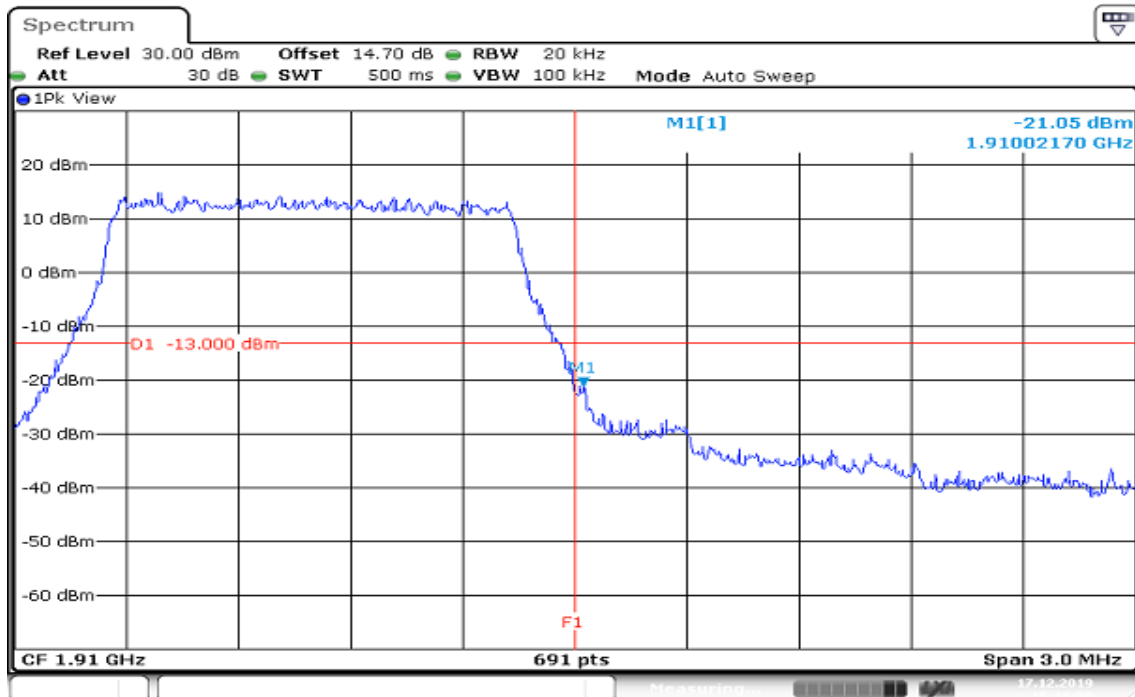
HIGHER BAND EDGE

Date: 17.DEC.2019 15:41:25

CHANNEL BANDWIDTH: 1.4MHz / QPSK / Full RB ALLOCATED LOWER BAND EDGE

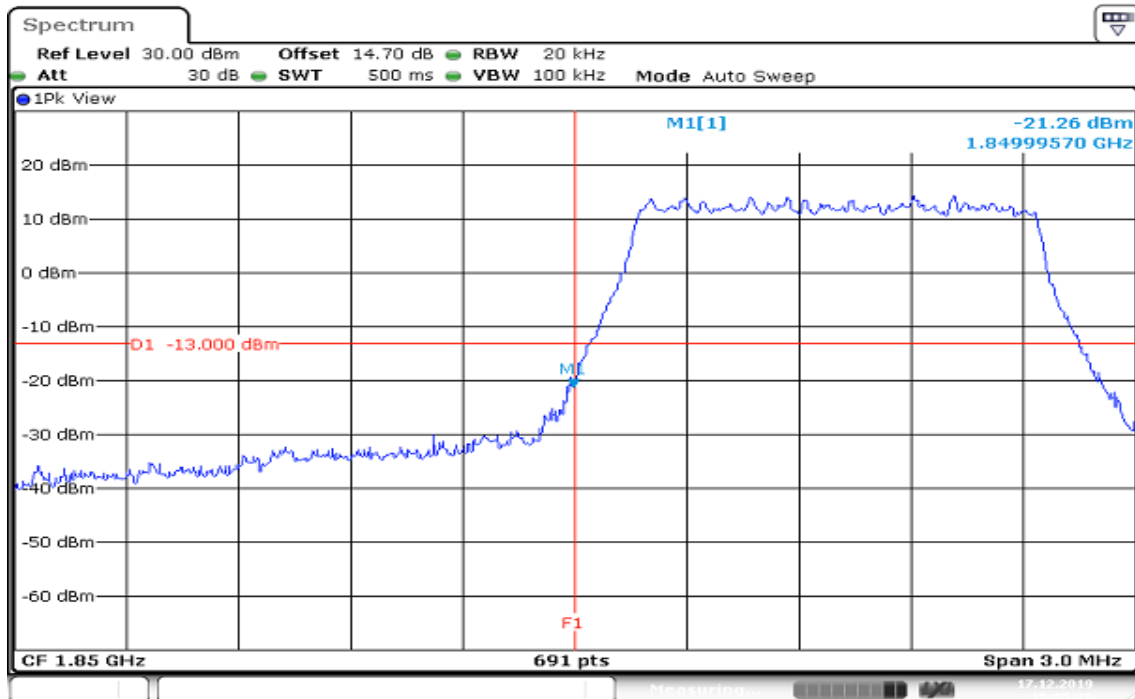


HIGHER BAND EDGE



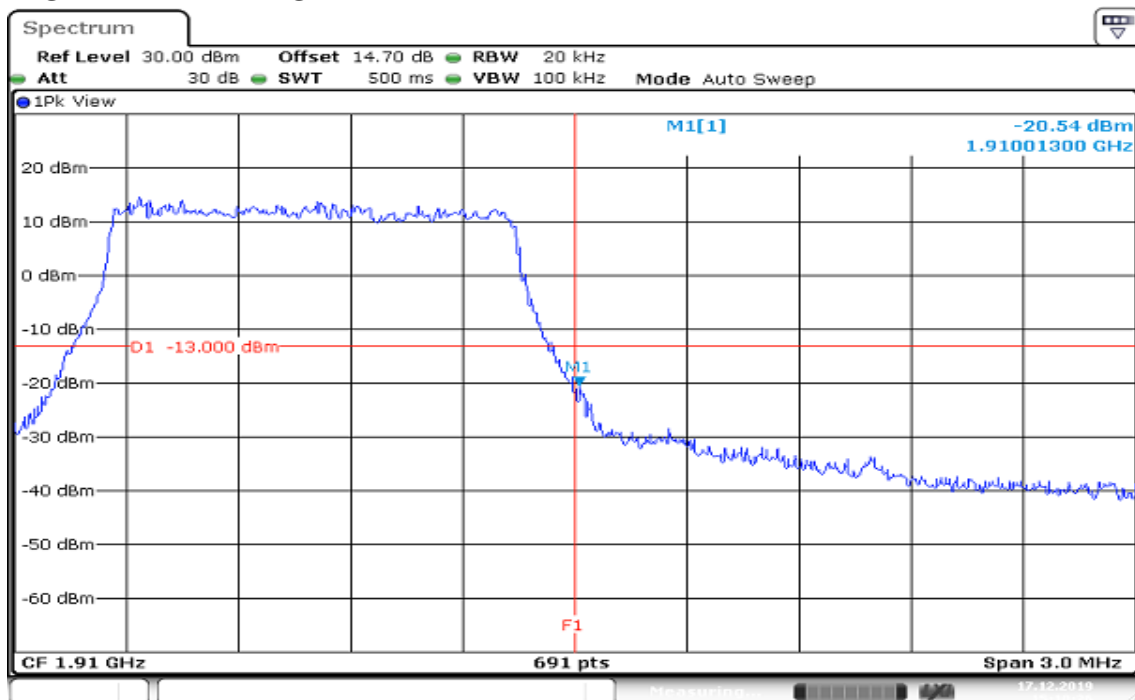
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 1.4MHz / 16QAM / Full RB ALLOCATED LOWER BAND EDGE



Date: 17.DEC.2019 15:05:26

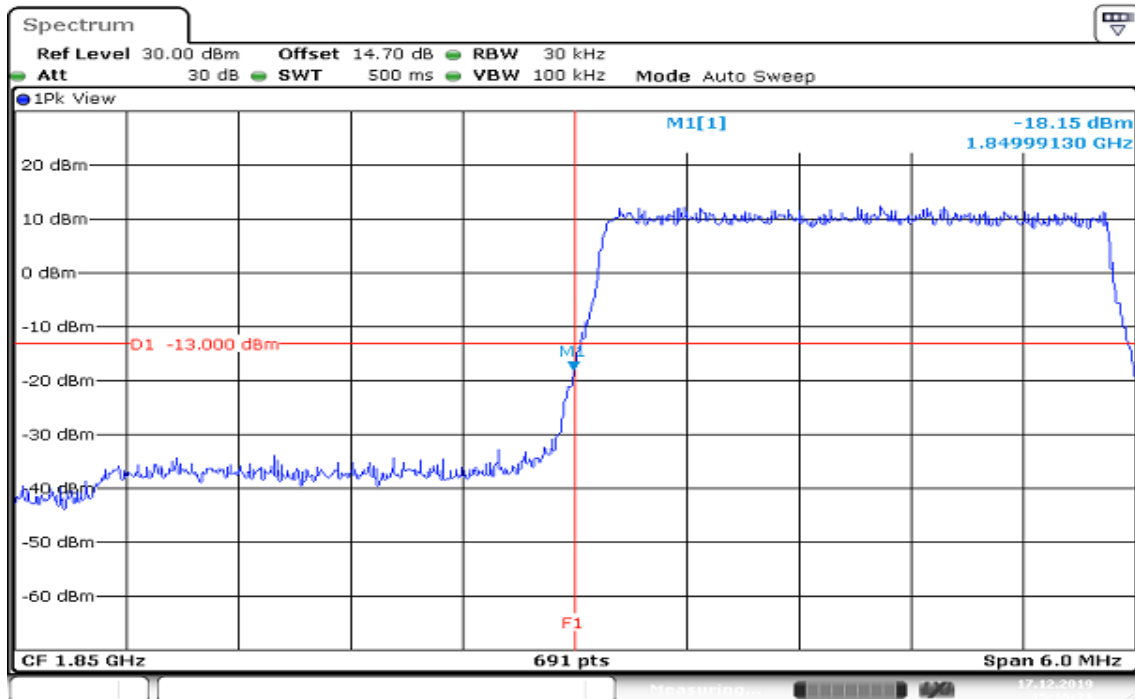
HIGHER BAND EDGE



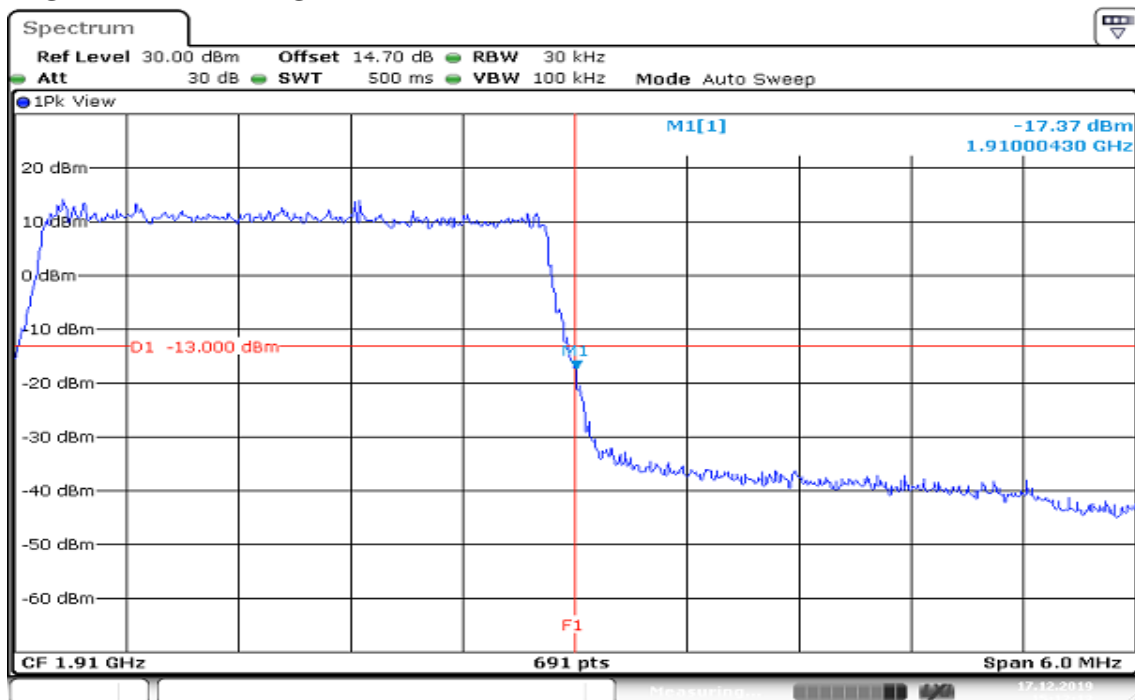
Date: 17.DEC.2019 15:10:37

Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 3MHz / QPSK / Full RB ALLOCATED LOWER BAND EDGE

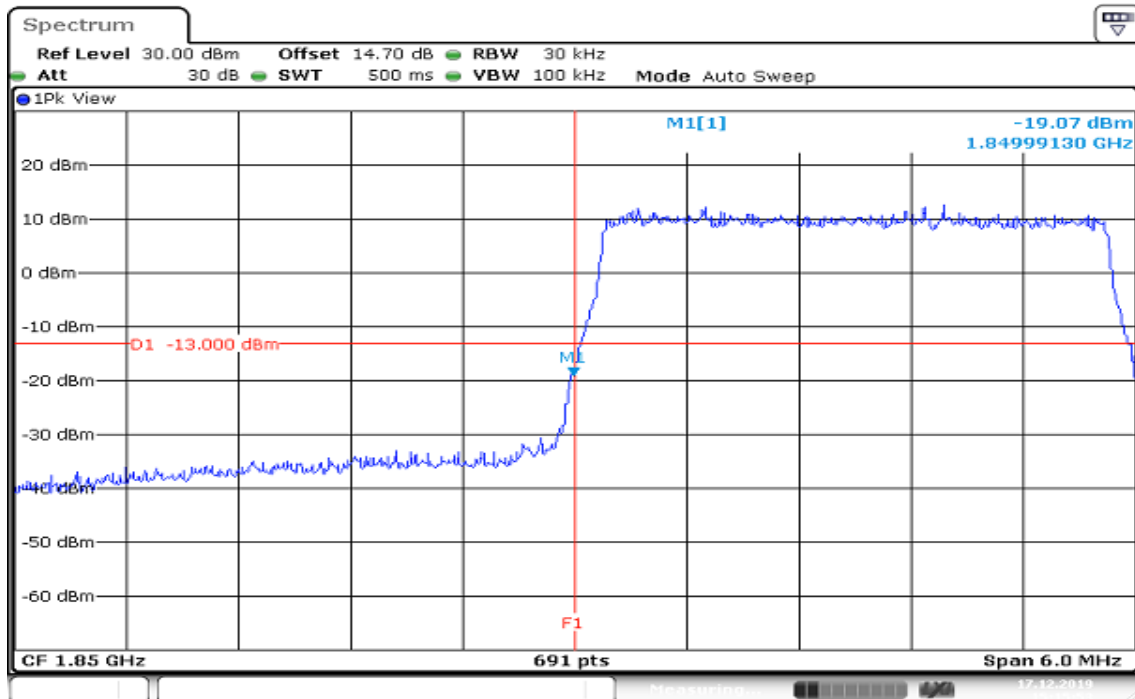


HIGHER BAND EDGE



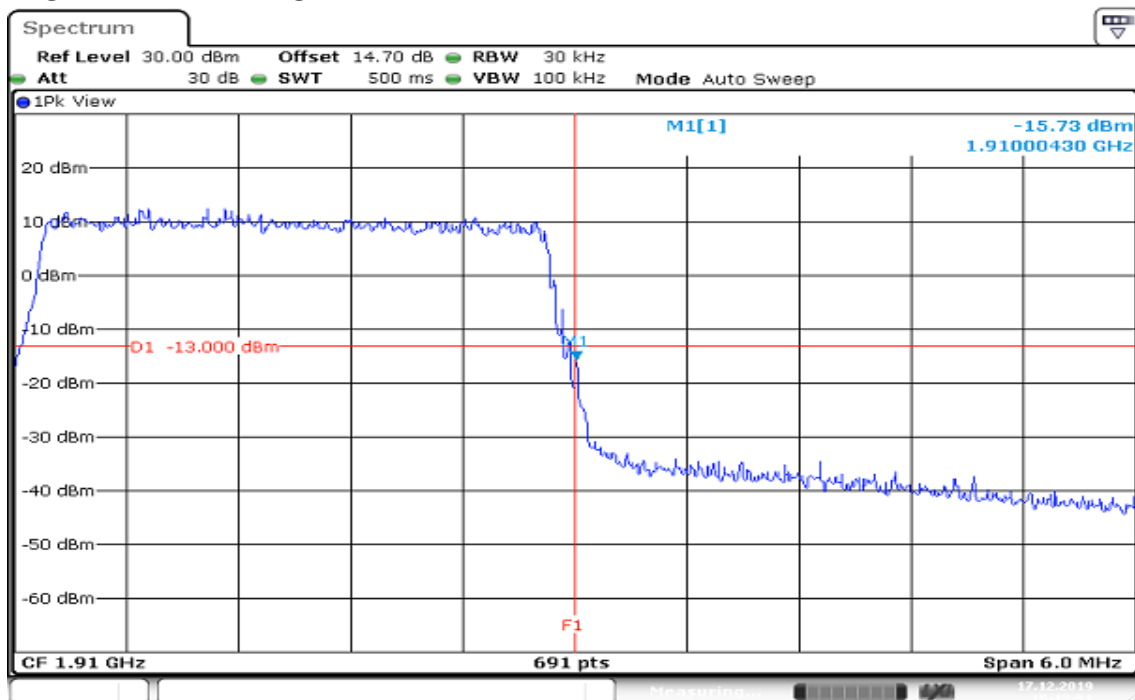
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 3MHz / 16QAM / Full RB ALLOCATED LOWER BAND EDGE



Date: 17.DEC.2019 15:15:54

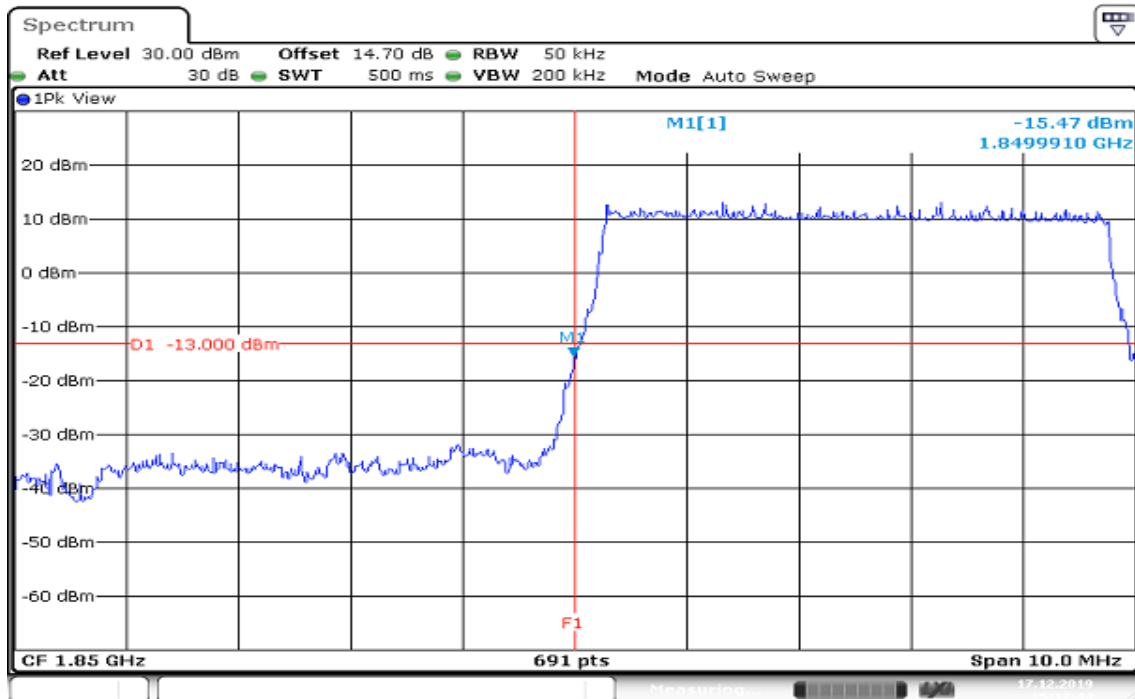
HIGHER BAND EDGE



Date: 17.DEC.2019 15:12:52

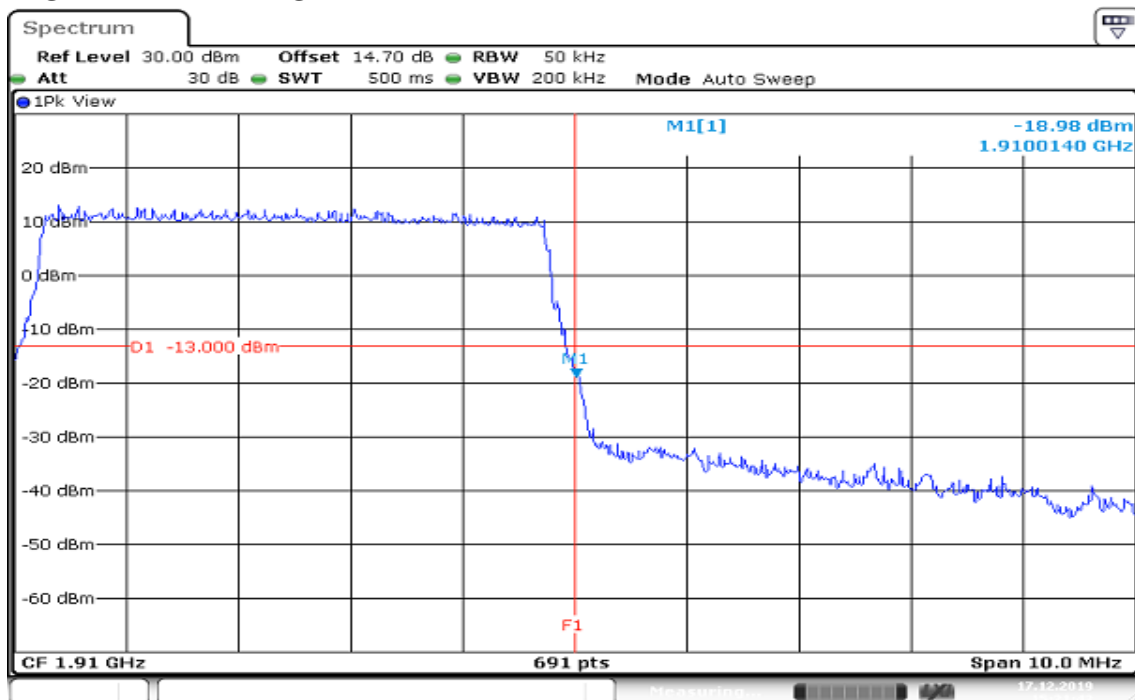
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 5MHz / QPSK / Full RB ALLOCATED LOWER BAND EDGE



Date: 17.DEC.2019 15:17:45

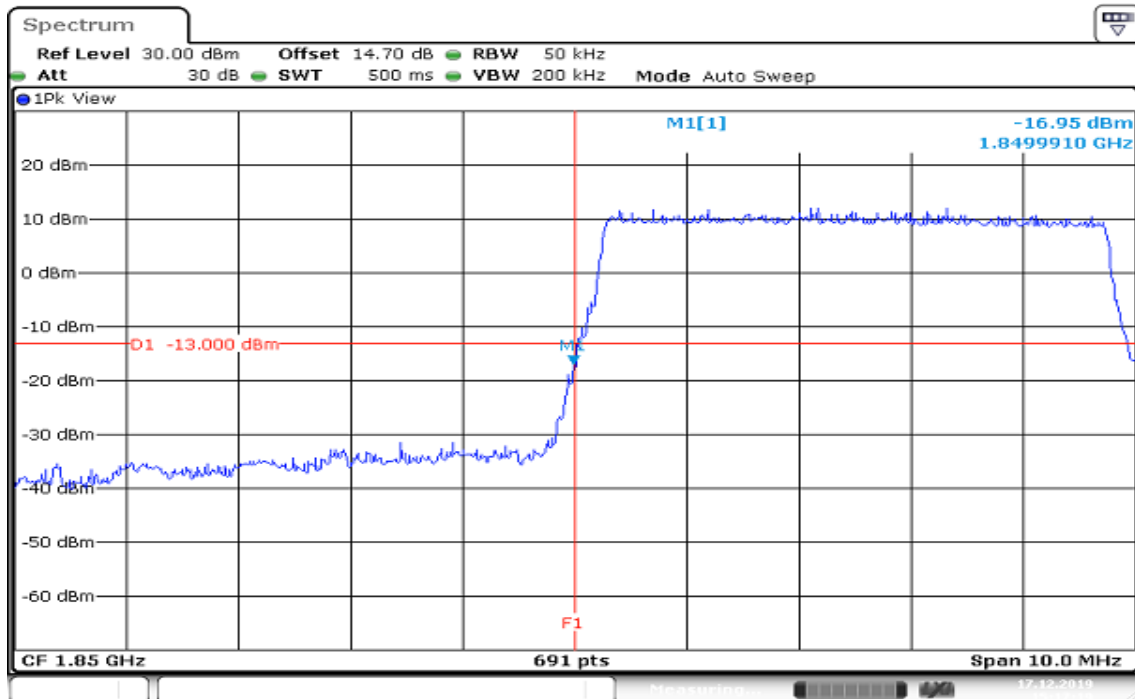
HIGHER BAND EDGE



Date: 17.DEC.2019 15:21:44

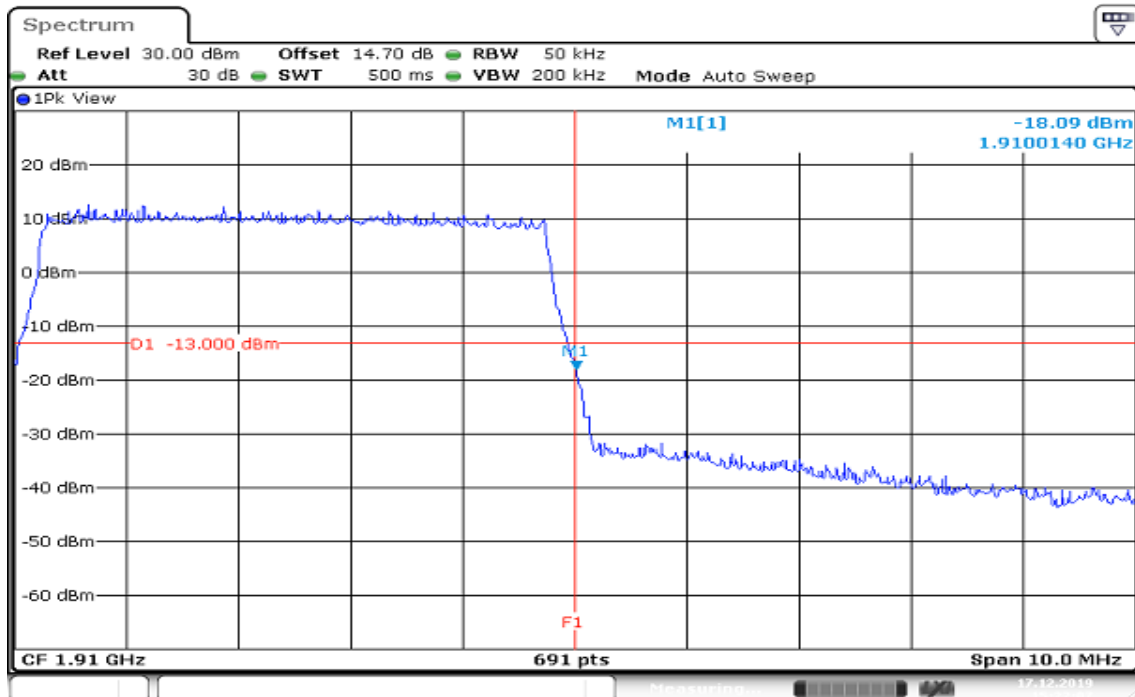
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 5MHz / 16QAM / Full RB ALLOCATED LOWER BAND EDGE



Date: 17.DEC.2019 15:17:20

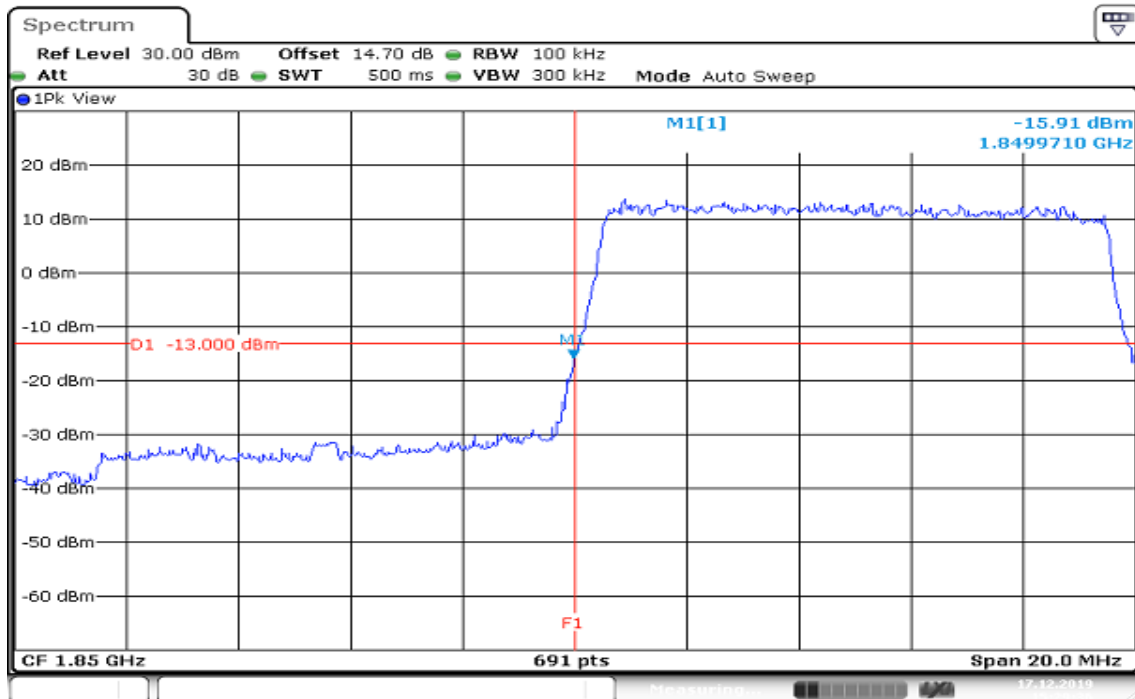
HIGHER BAND EDGE



Date: 17.DEC.2019 15:22:07

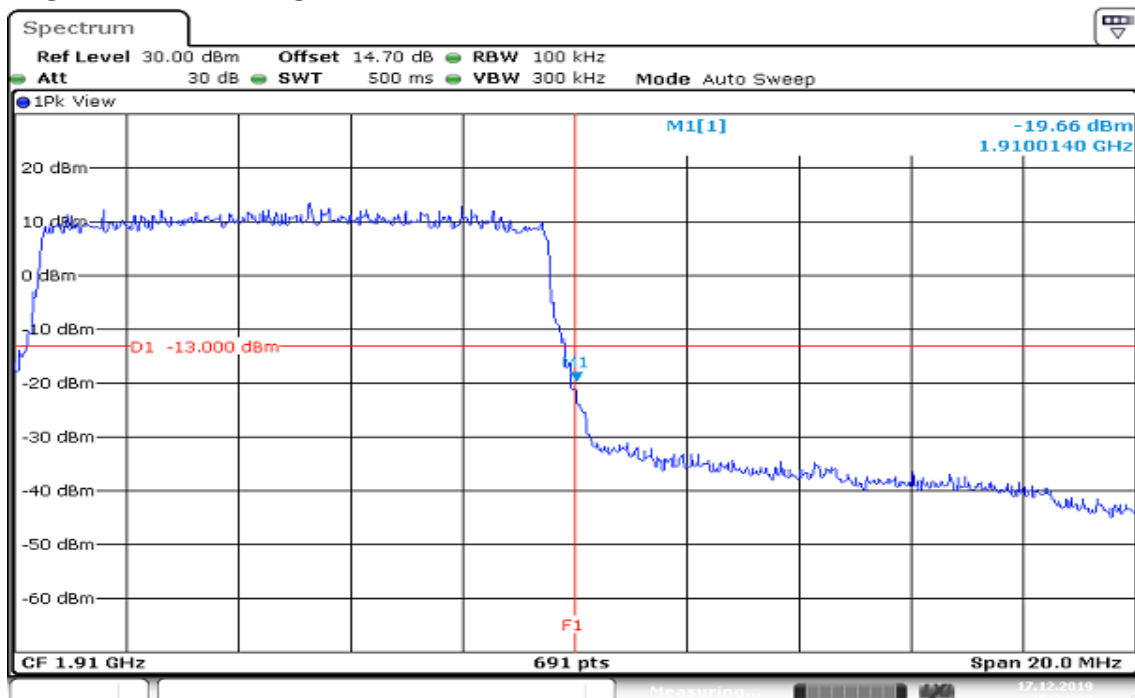
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 10MHz / QPSK / Full RB ALLOCATED LOWER BAND EDGE



Date: 17.DEC.2019 15:29:37

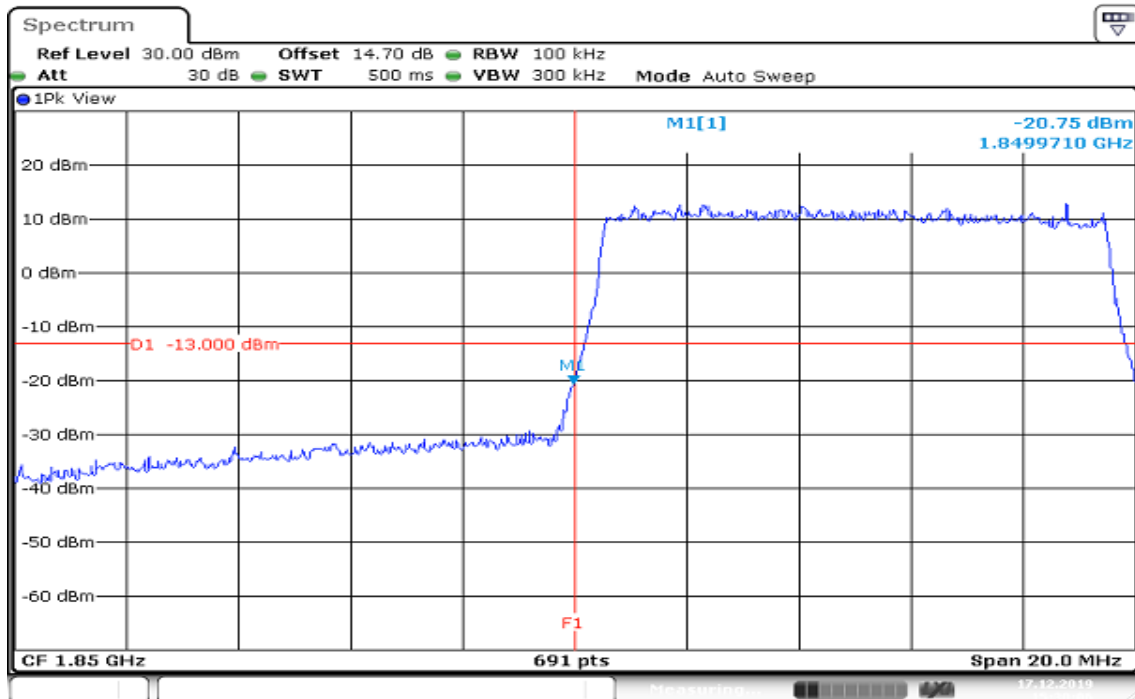
HIGHER BAND EDGE



Date: 17.DEC.2019 15:23:30

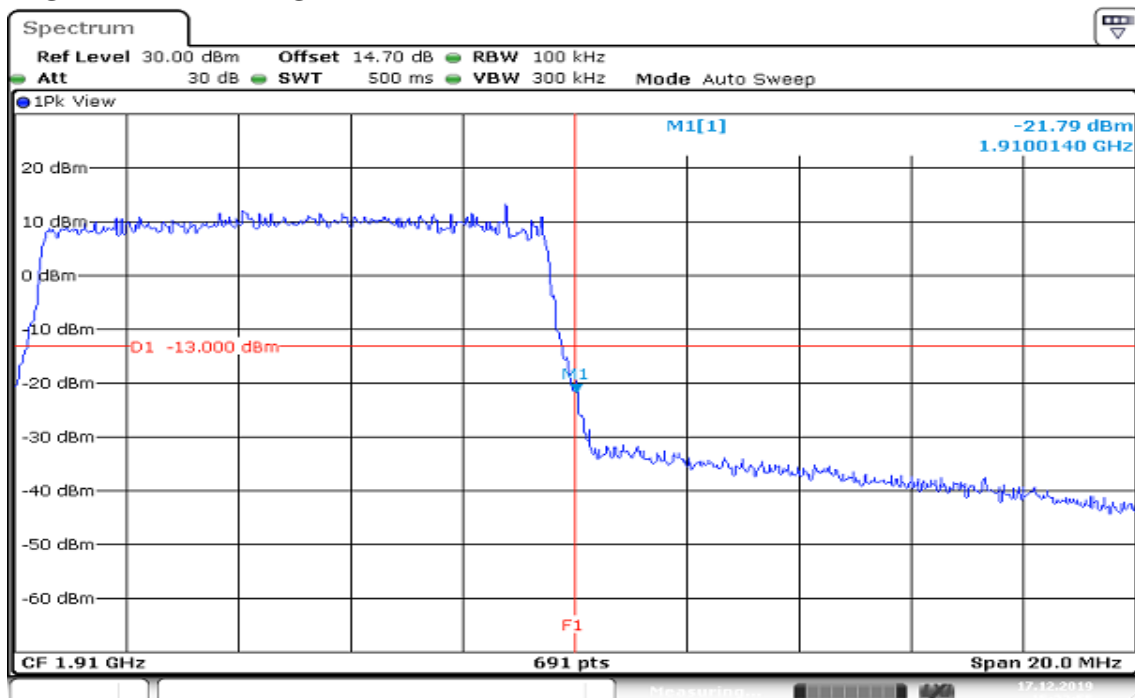
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 10MHz / 16QAM / Full RB ALLOCATED LOWER BAND EDGE



Date: 17.DEC.2019 15:30:07

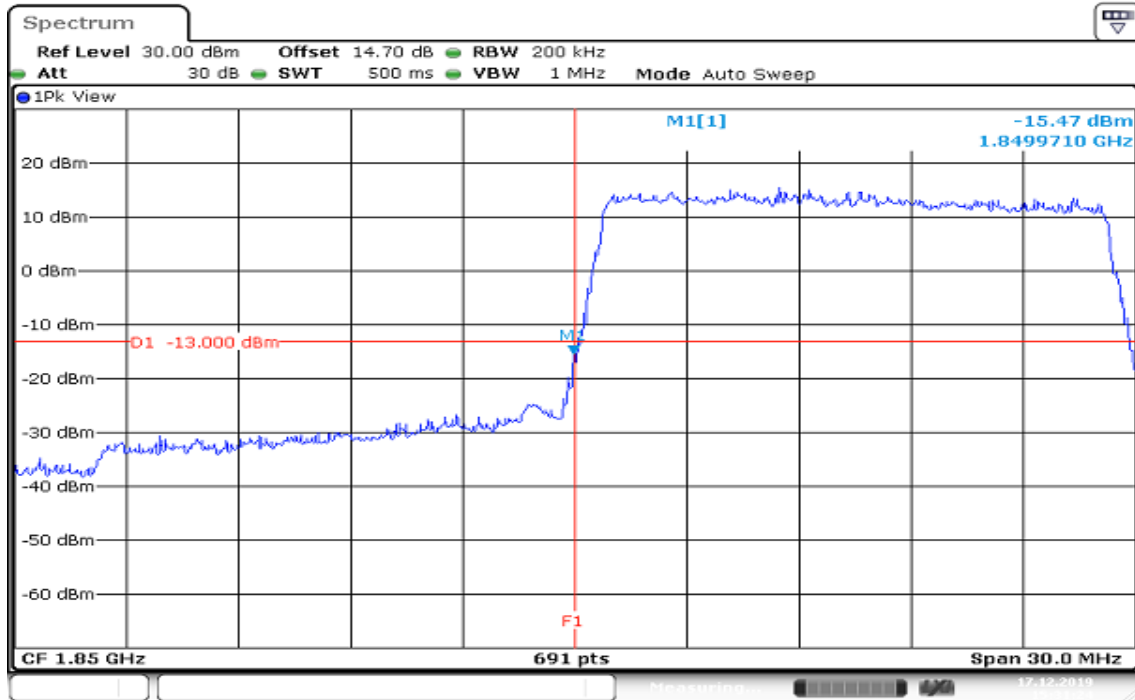
HIGHER BAND EDGE



Date: 17.DEC.2019 15:23:56

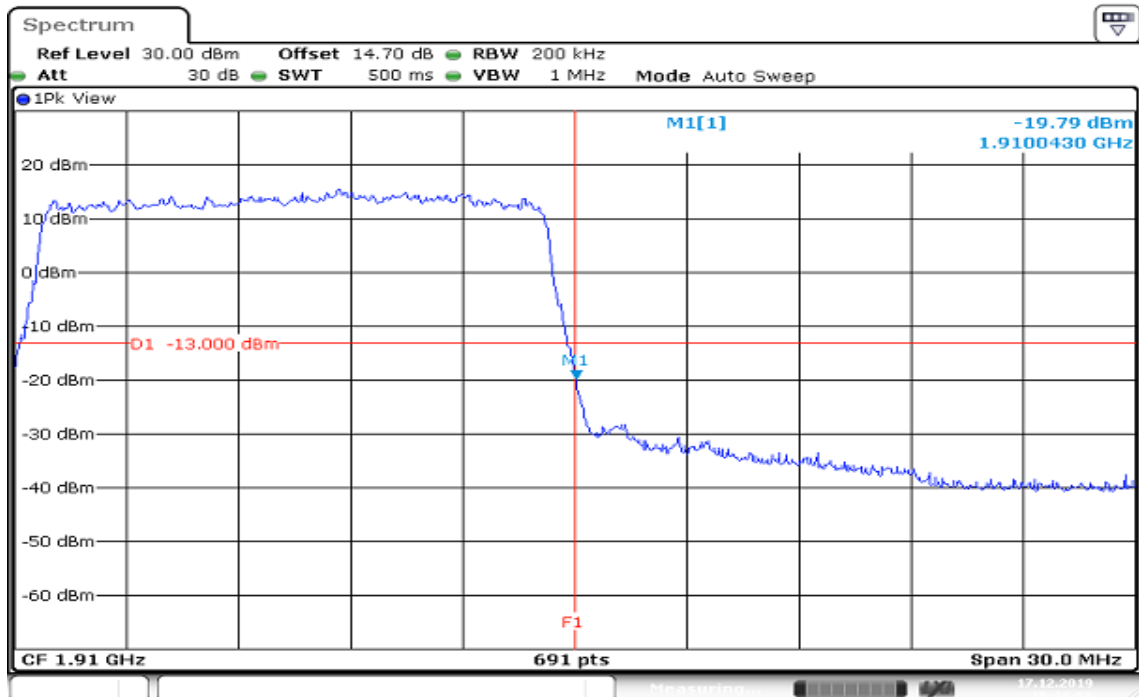
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 15MHz / QPSK / Full RB ALLOCATED LOWER BAND EDGE



Date: 17.DEC.2019 15:31:25

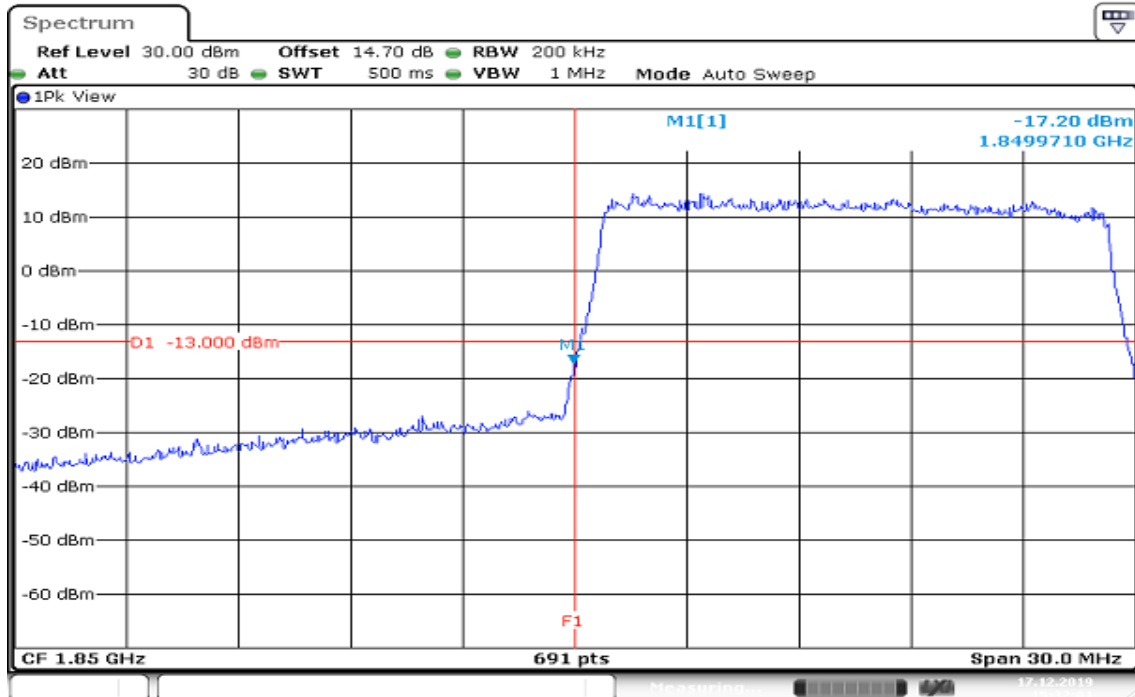
HIGHER BAND EDGE



Date: 17.DEC.2019 15:38:56

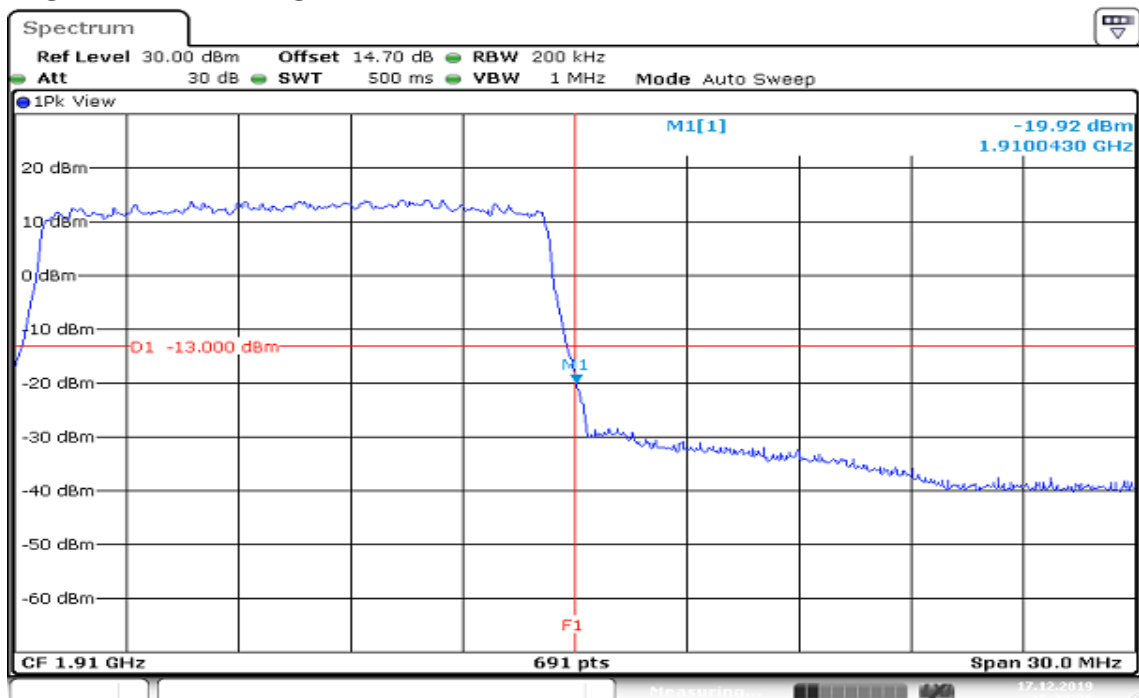
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 15MHz / 16QAM / Full RB ALLOCATED LOWER BAND EDGE



Date: 17.DEC.2019 15:32:01

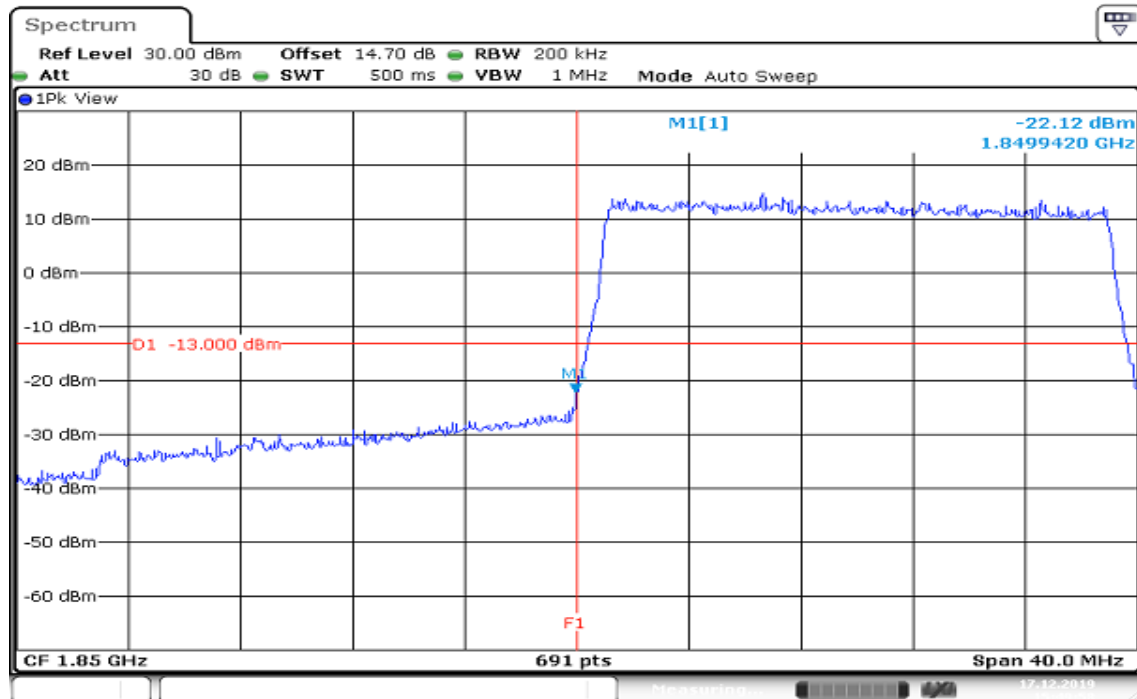
HIGHER BAND EDGE



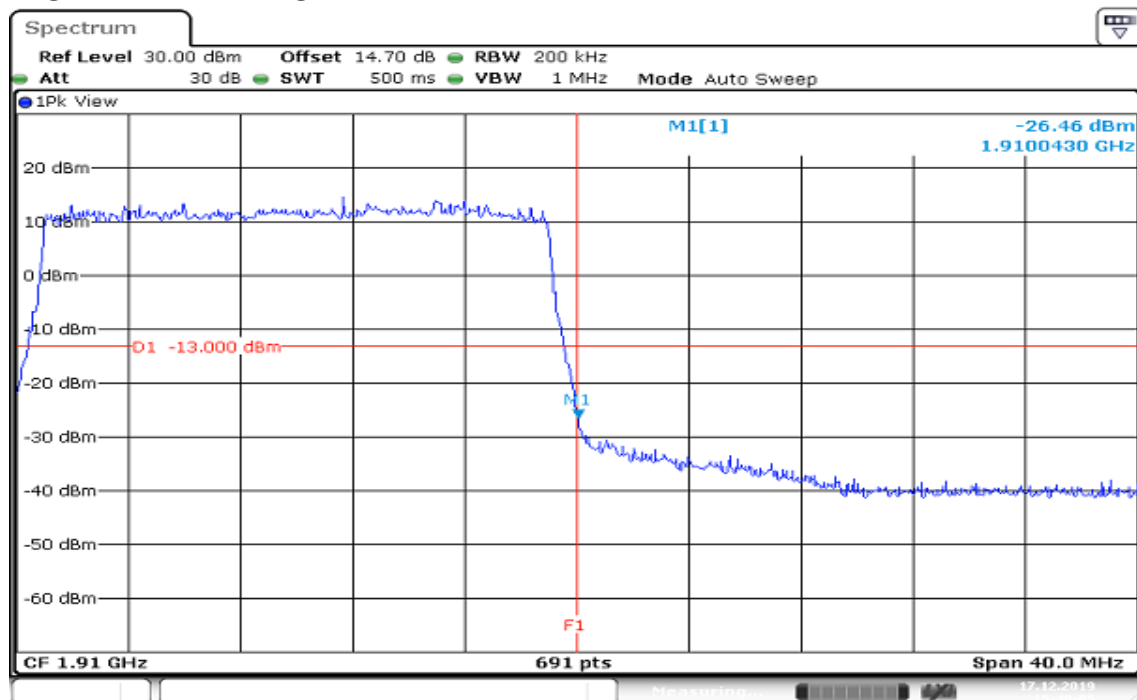
Date: 17.DEC.2019 15:38:37

Report No.: T191120D05-RP5

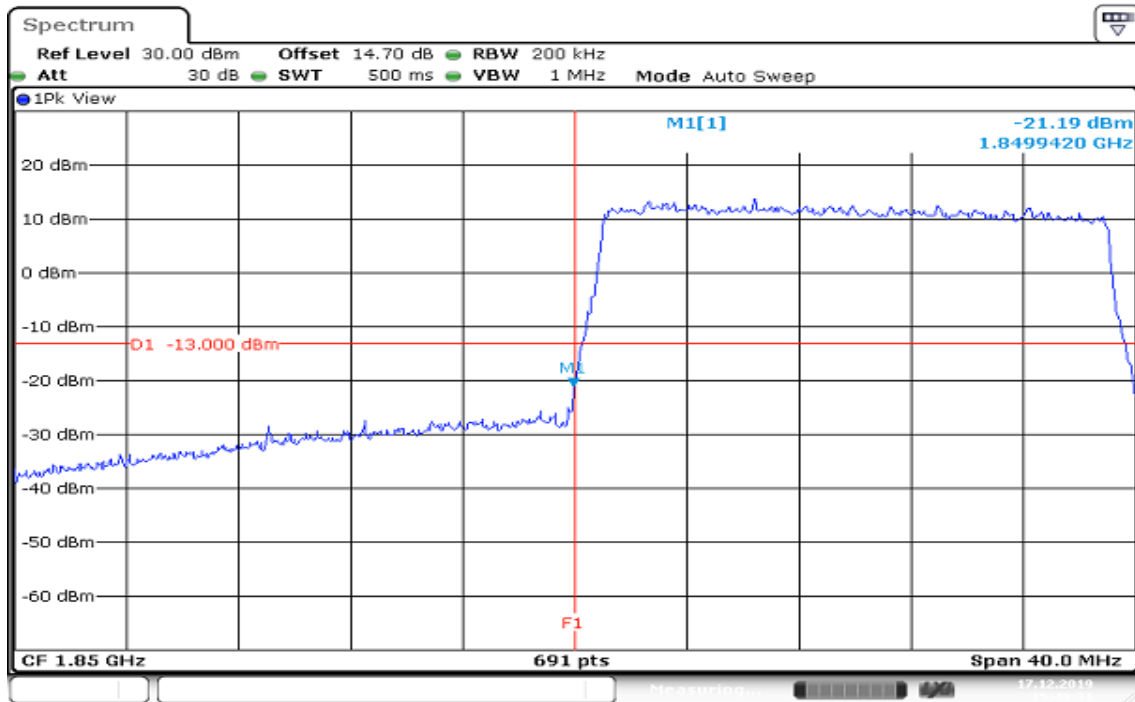
CHANNEL BANDWIDTH: 20MHz / QPSK / Full RB ALLOCATED LOWER BAND EDGE



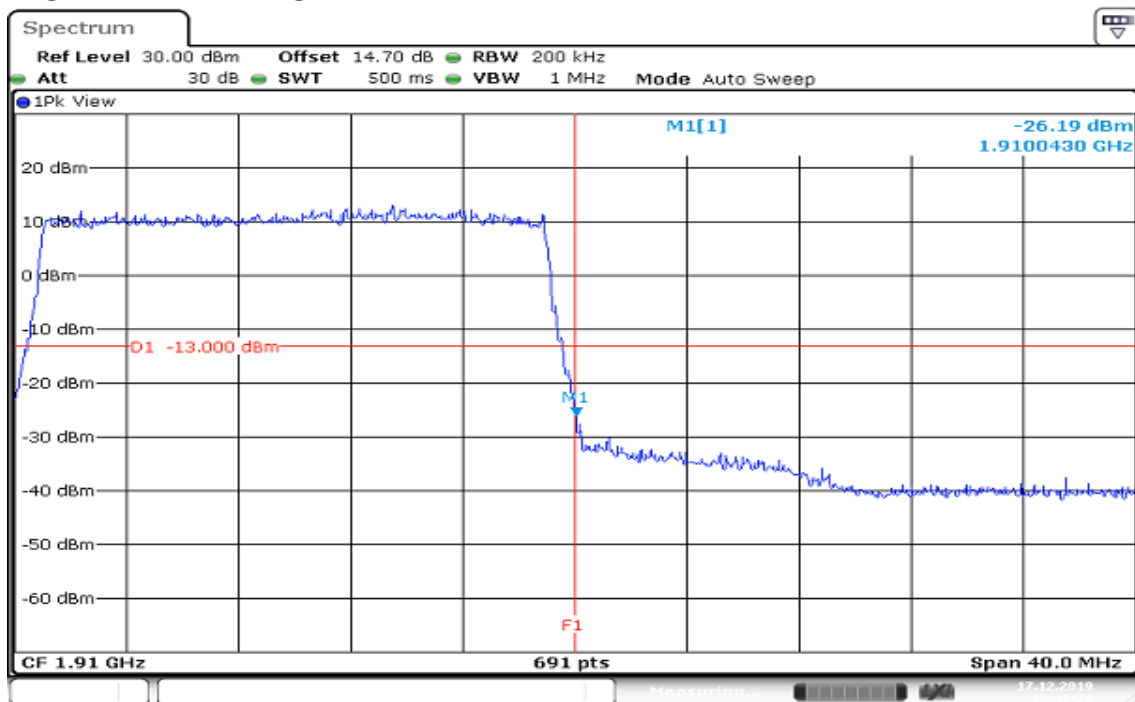
HIGHER BAND EDGE



CHANNEL BANDWIDTH: 20MHz / 16QAM / Full RB ALLOCATED LOWER BAND EDGE



HIGHER BAND EDGE

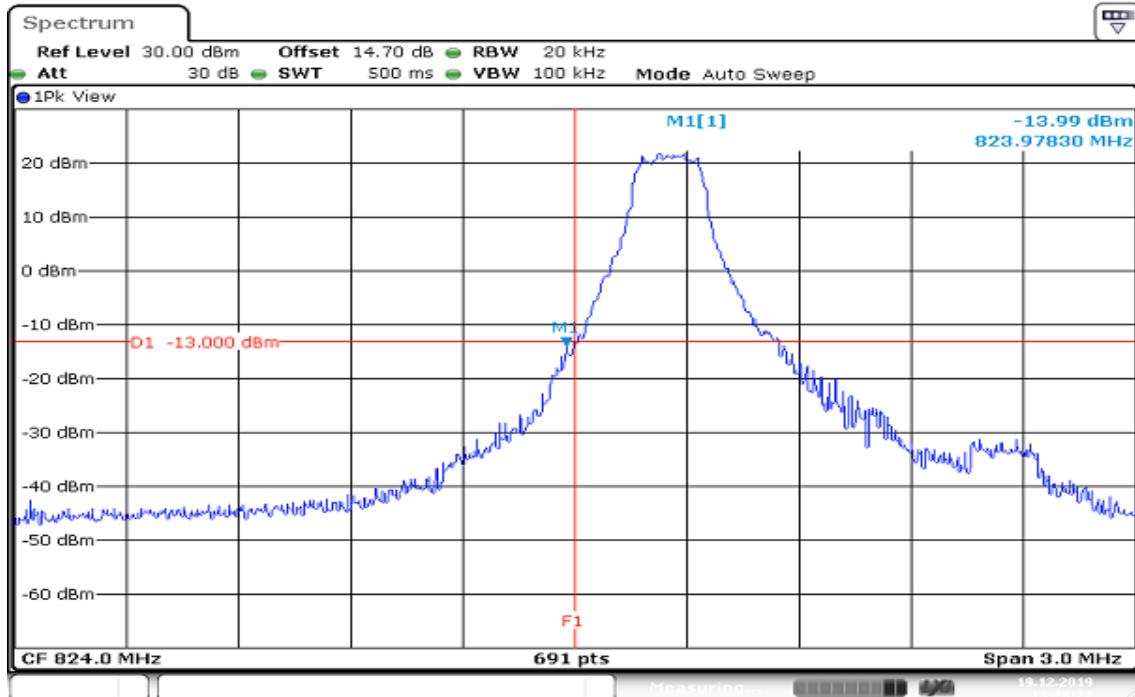


Report No.: T191120D05-RP5

LTE Band 5

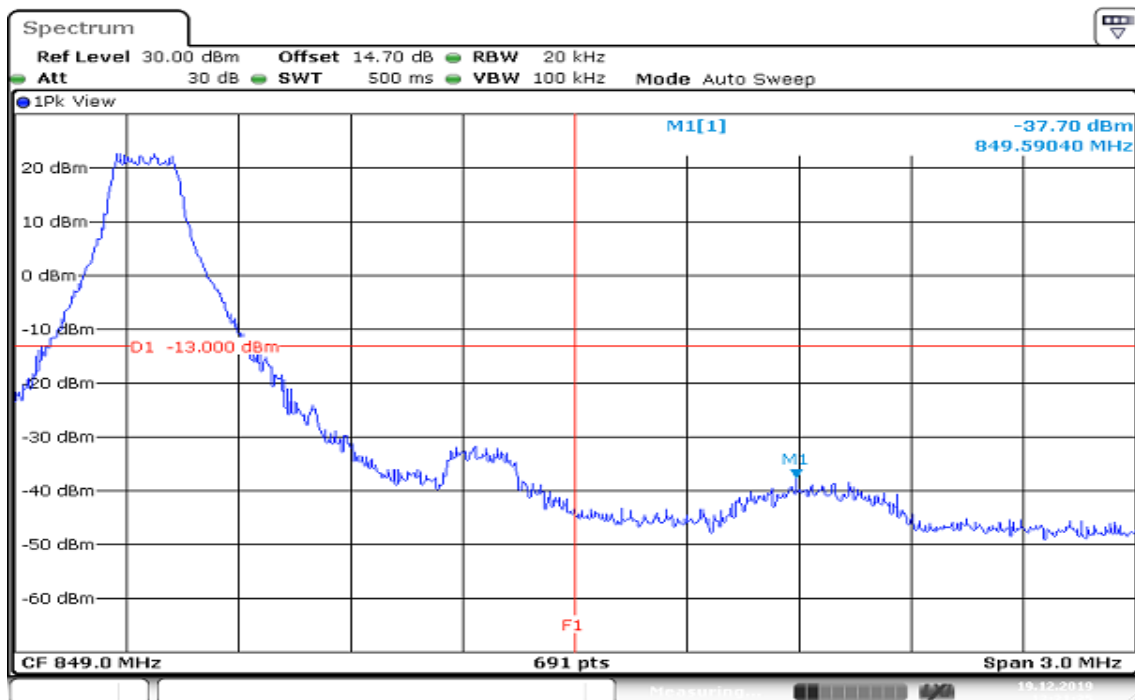
CHANNEL BANDWIDTH: 1.4MHz / QPSK / 1RB ALLOCATED

LOWER BAND EDGE



Date: 19.DEC.2019 13:28:22

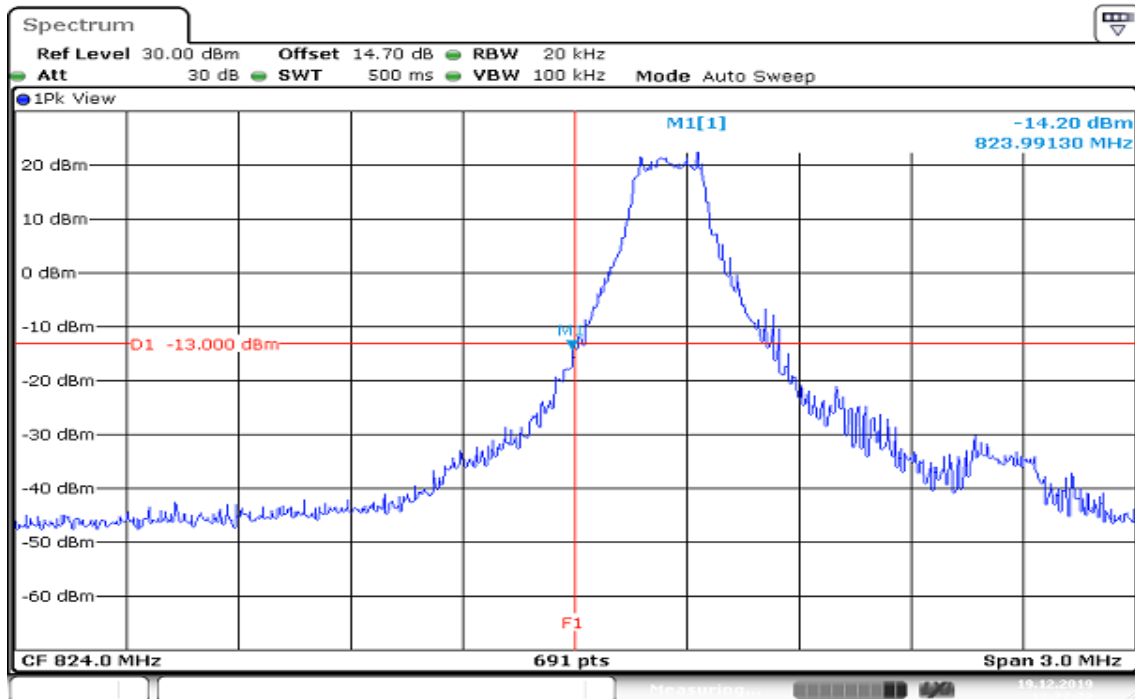
HIGHER BAND EDGE



Date: 19.DEC.2019 13:31:36

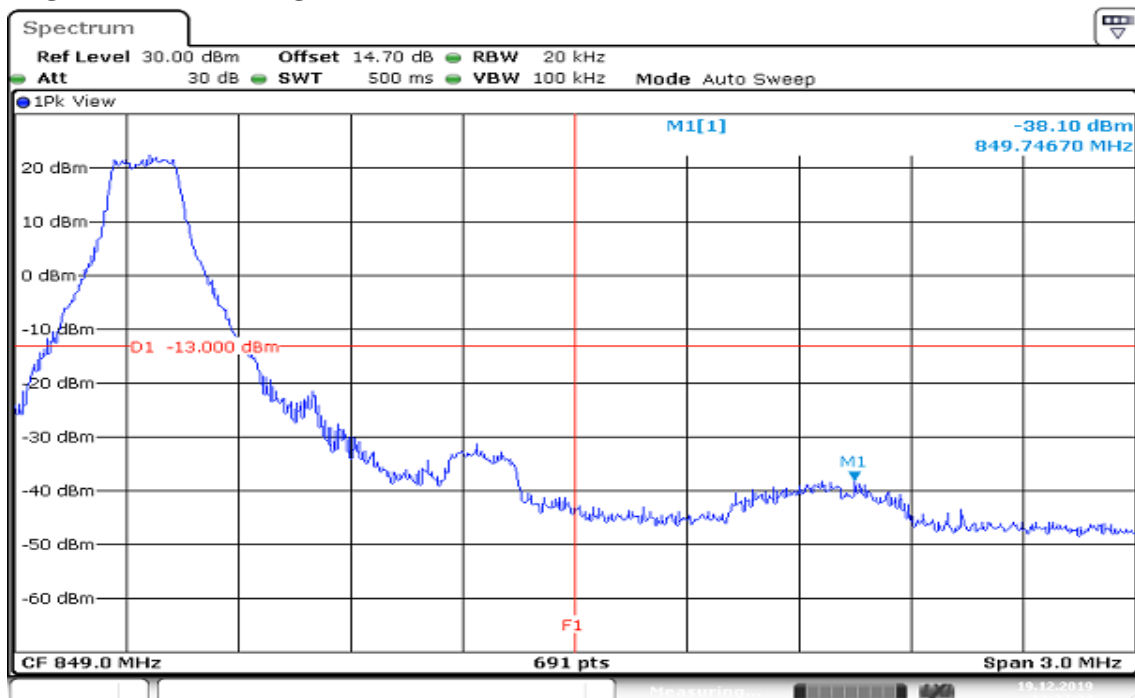
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 1.4MHz / 16QAM / 1RB ALLOCATED LOWER BAND EDGE



Date: 19.DEC.2019 13:27:23

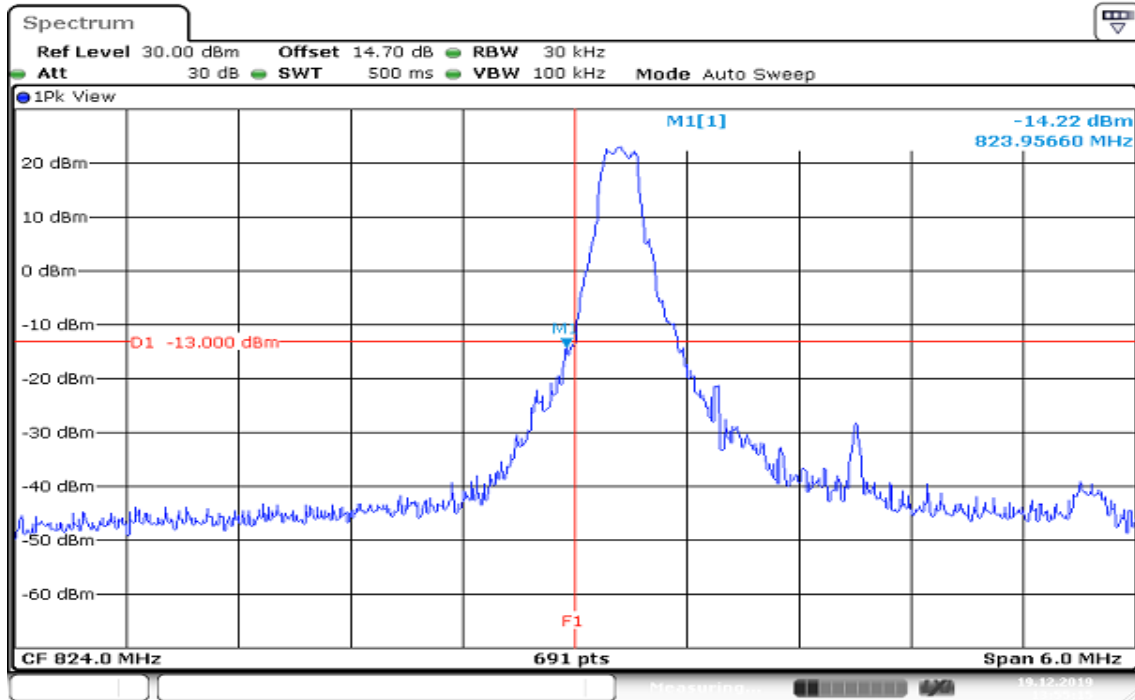
HIGHER BAND EDGE



Date: 19.DEC.2019 13:32:24

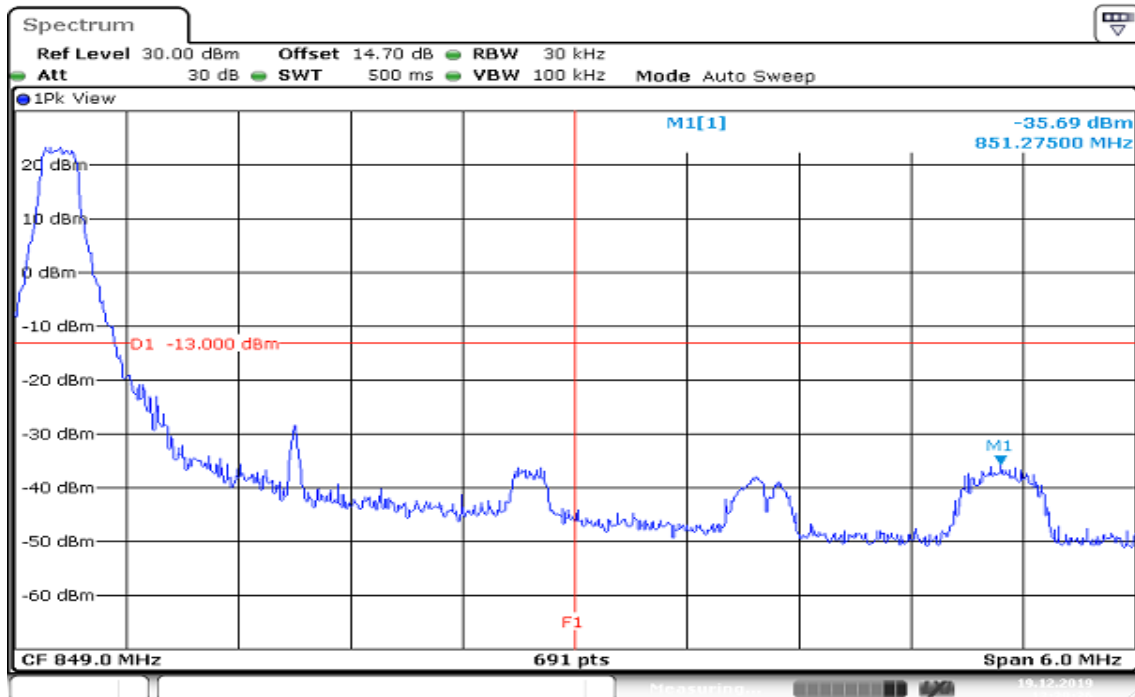
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 3MHz / QPSK / 1RB ALLOCATED LOWER BAND EDGE



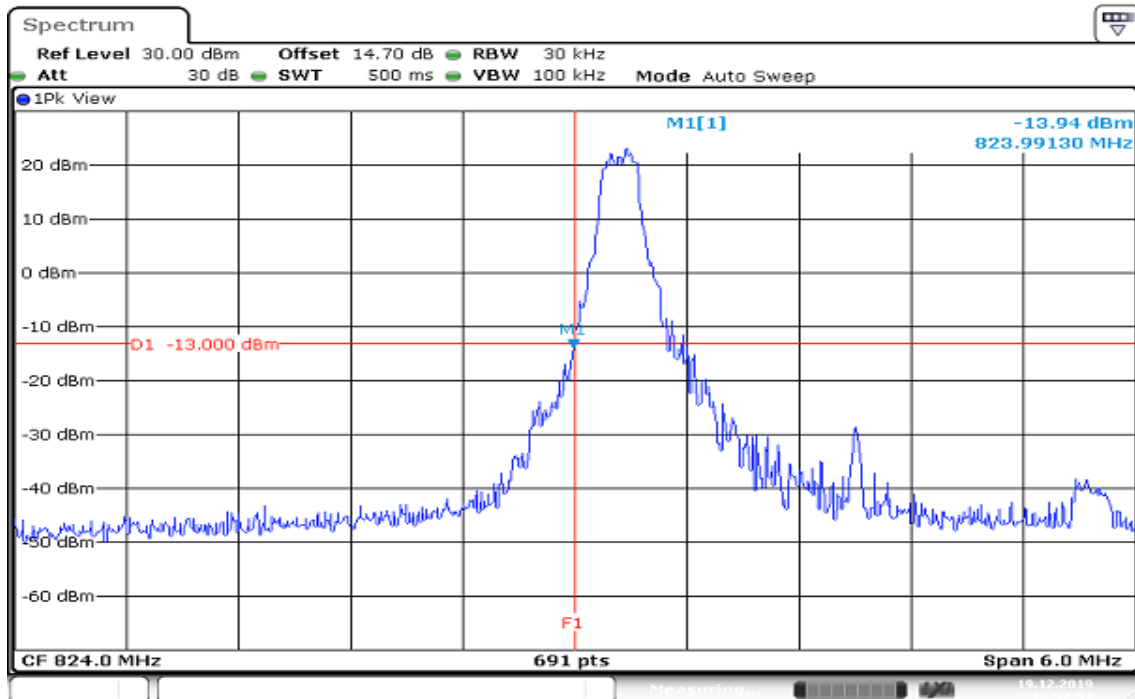
Date: 19.DEC.2019 13:55:16

HIGHER BAND EDGE



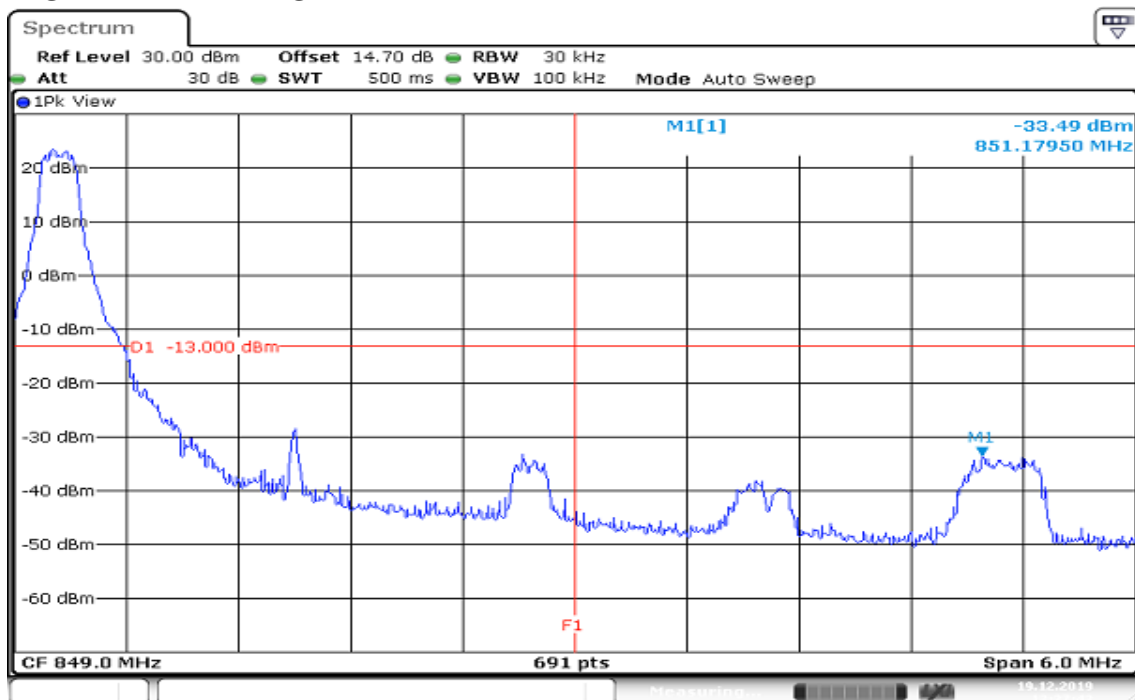
Date: 19.DEC.2019 13:59:37

CHANNEL BANDWIDTH: 3MHz / 16QAM / 1RB ALLOCATED LOWER BAND EDGE



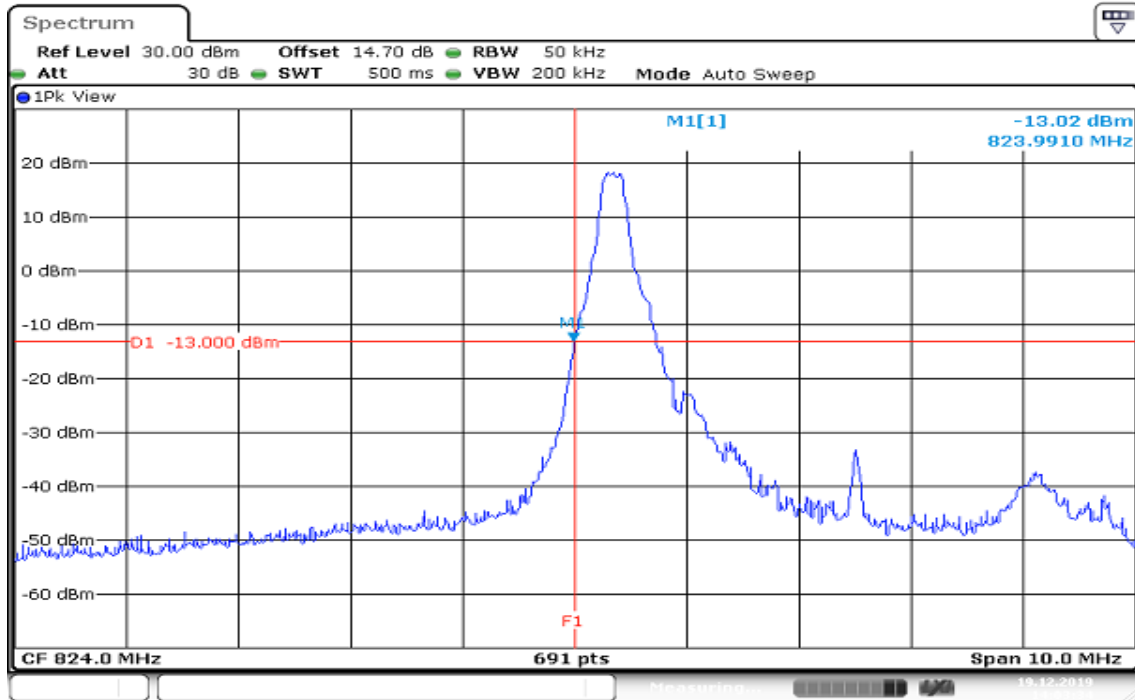
Date: 19.DEC.2019 13:57:52

HIGHER BAND EDGE



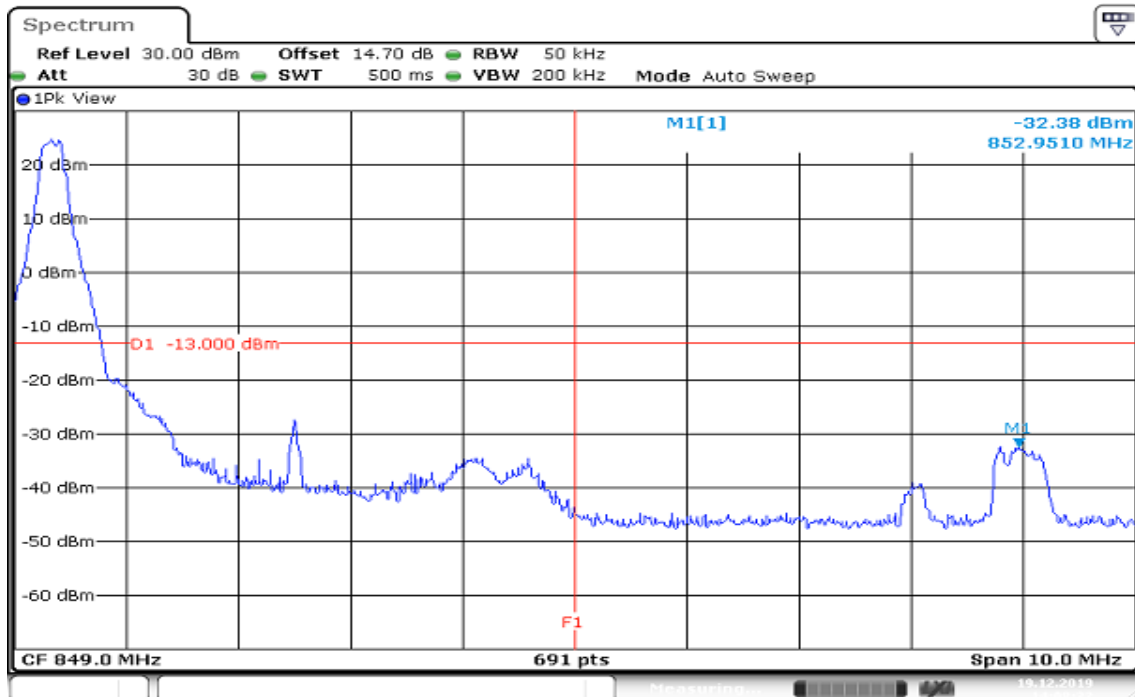
Date: 19.DEC.2019 13:37:43

CHANNEL BANDWIDTH: 5MHz / QPSK / 1RB ALLOCATED LOWER BAND EDGE



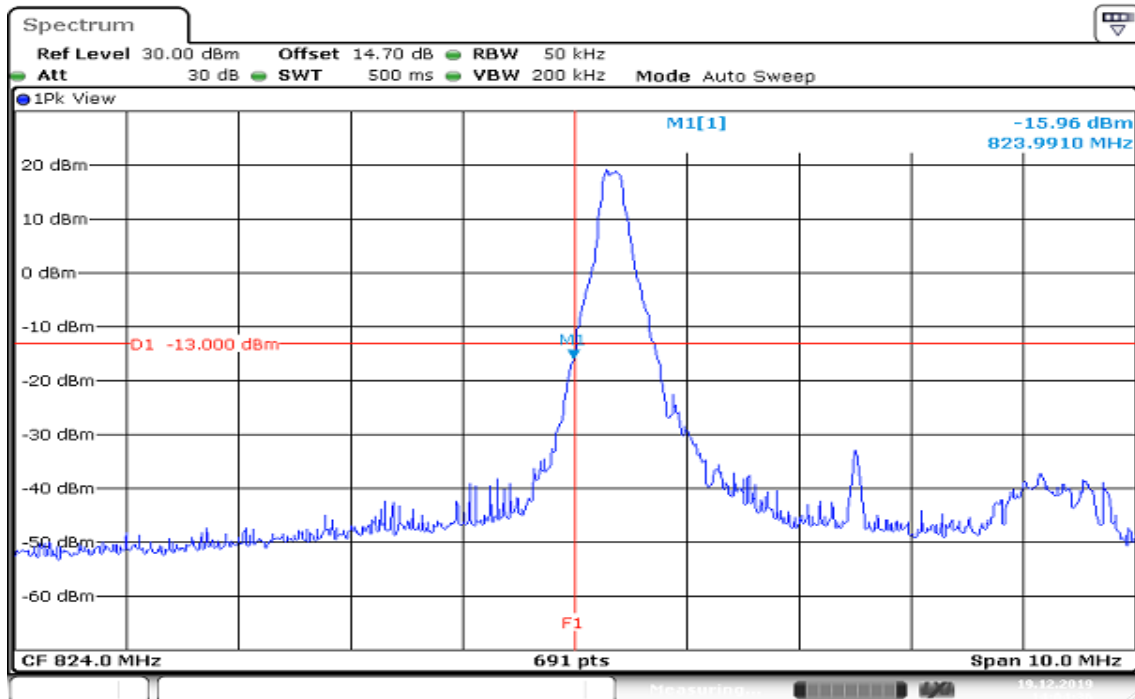
Date: 19.DEC.2019 14:03:35

HIGHER BAND EDGE



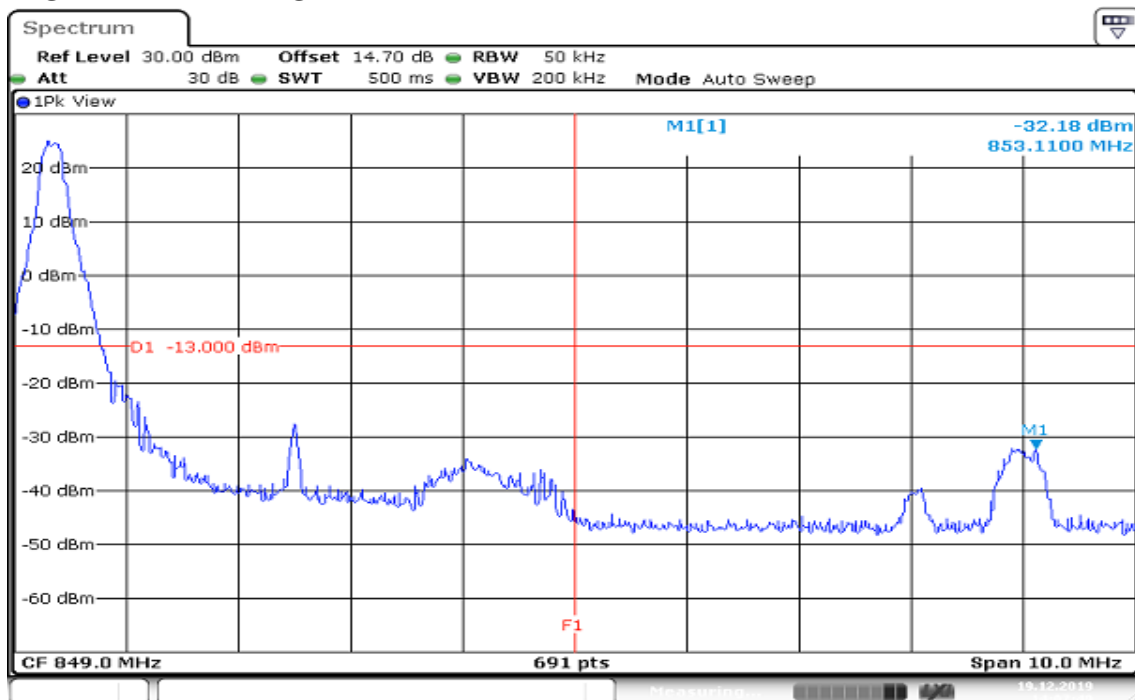
Date: 19.DEC.2019 14:08:33

CHANNEL BANDWIDTH: 5MHz / 16QAM / 1RB ALLOCATED LOWER BAND EDGE



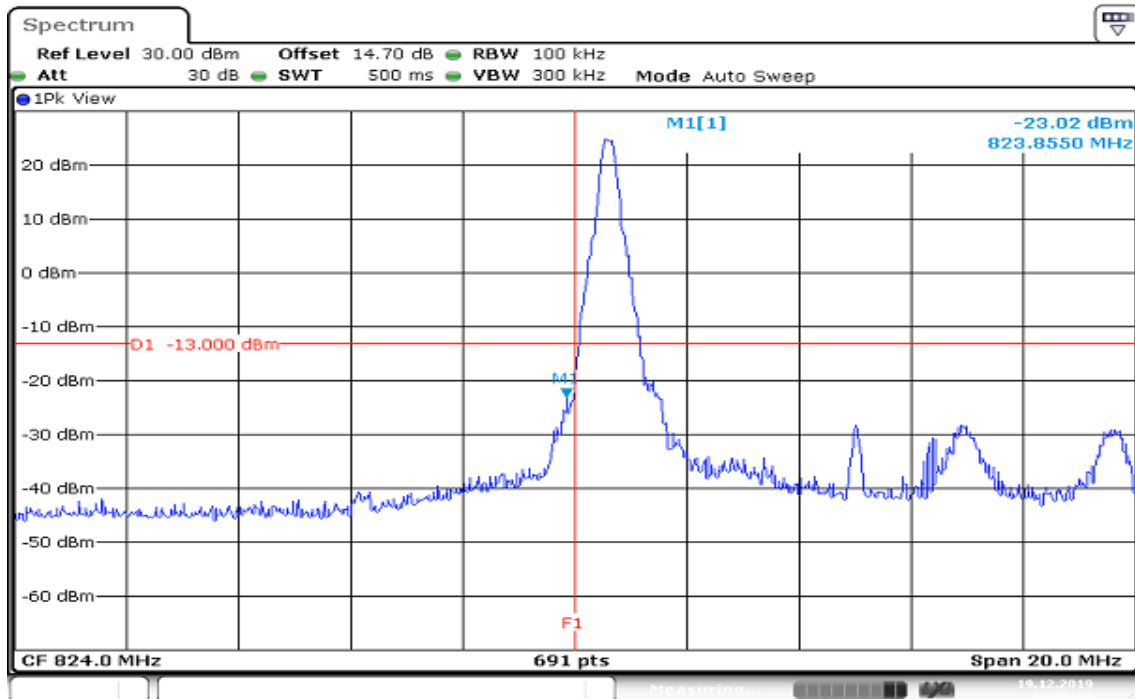
Date: 19.DEC.2019 14:04:37

HIGHER BAND EDGE



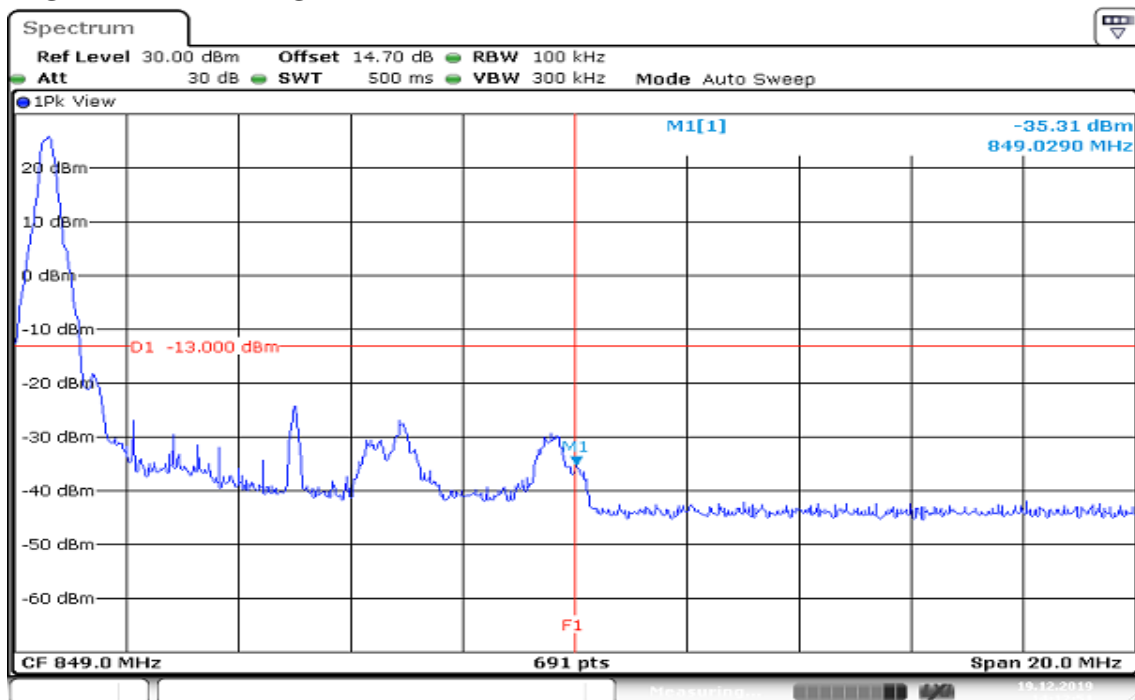
Date: 19.DEC.2019 14:07:49

CHANNEL BANDWIDTH: 10MHz / QPSK / 1RB ALLOCATED LOWER BAND EDGE



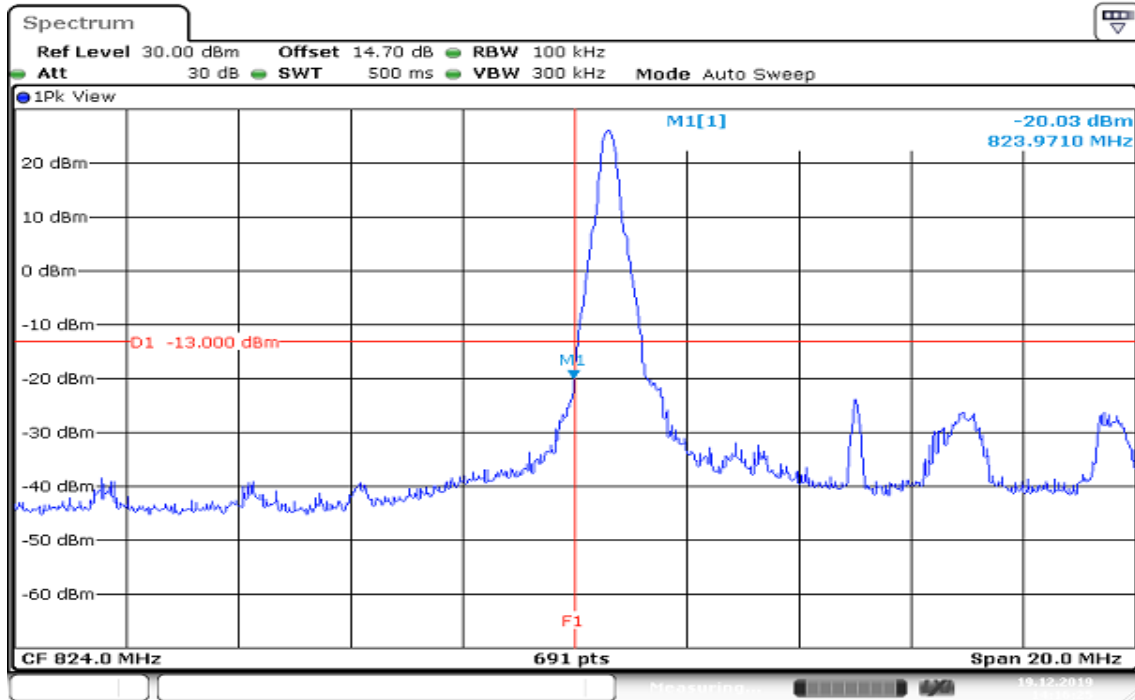
Date: 19.DEC.2019 14:20:01

HIGHER BAND EDGE



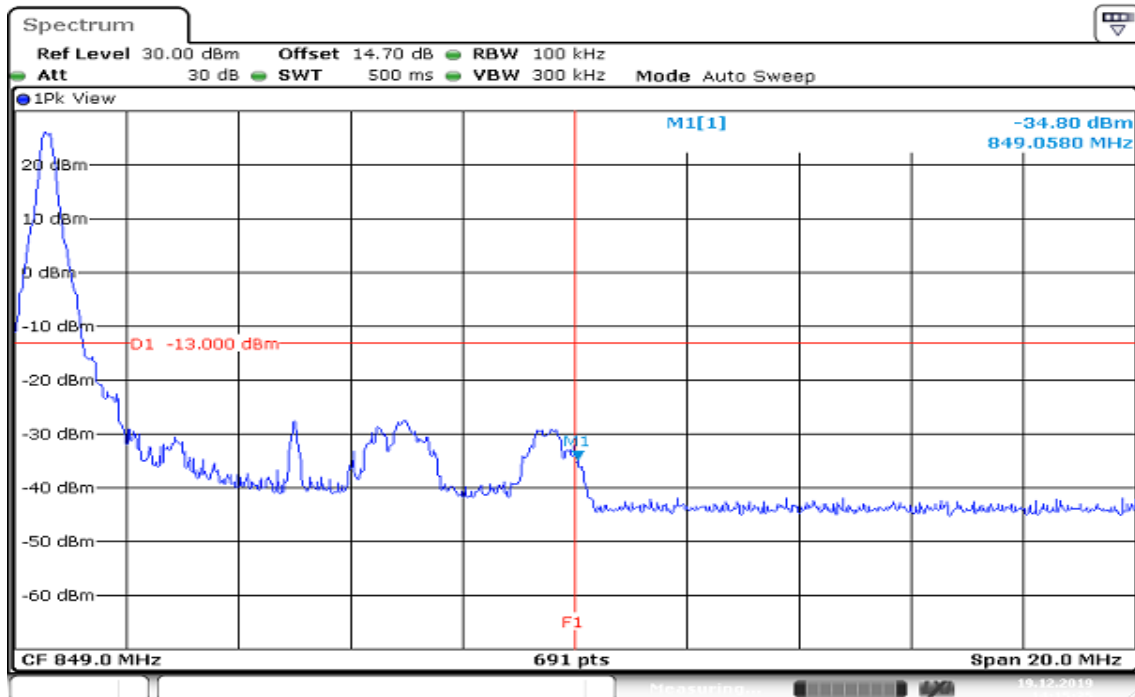
Date: 19.DEC.2019 14:12:51

CHANNEL BANDWIDTH: 10MHz / 16QAM / 1RB ALLOCATED LOWER BAND EDGE



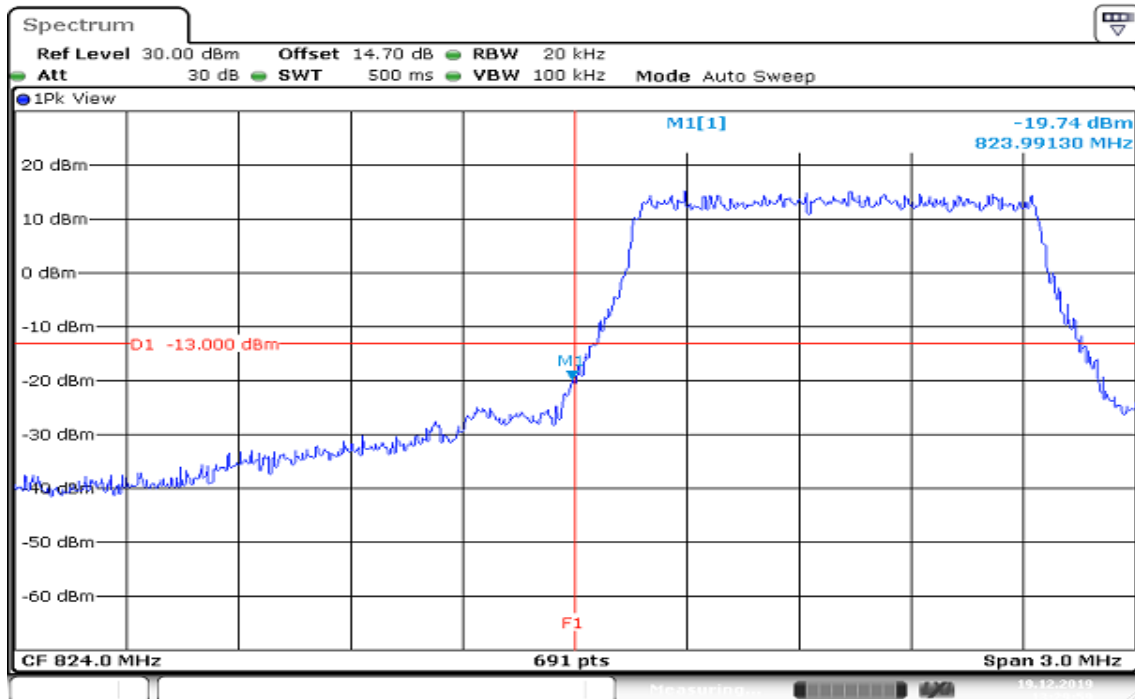
Date: 19.DEC.2019 14:16:26

HIGHER BAND EDGE

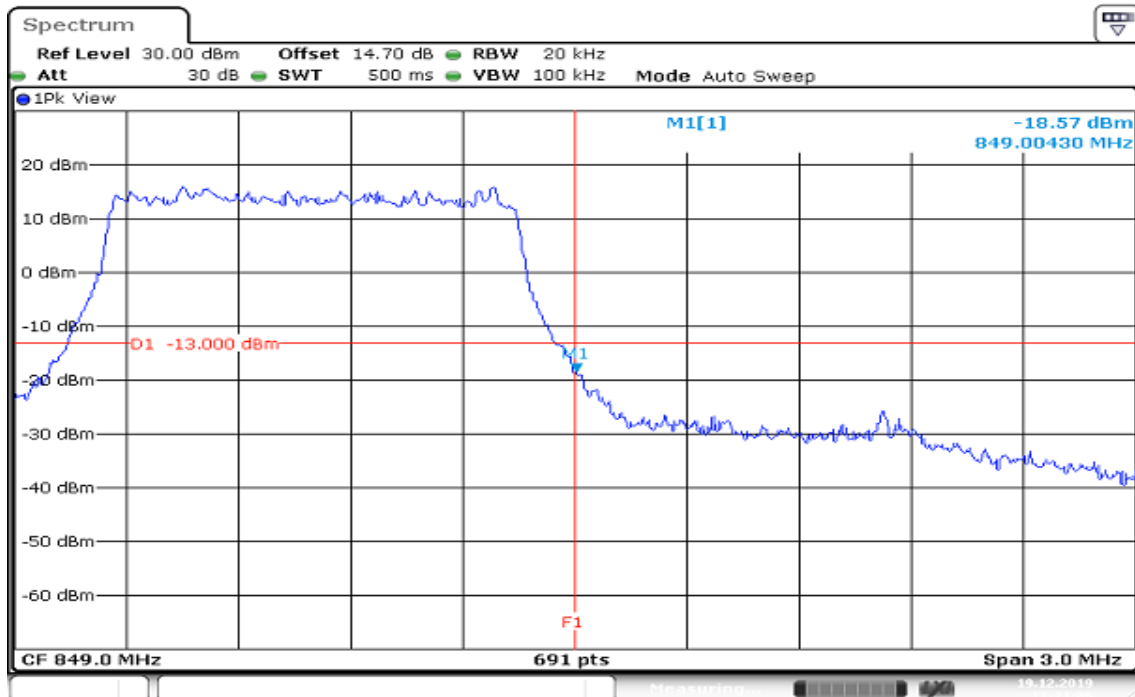


Date: 19.DEC.2019 14:15:35

Report No.: T191120D05-RP5

**CHANNEL BANDWIDTH: 1.4MHz / QPSK / Full RB ALLOCATED
LOWER BAND EDGE**

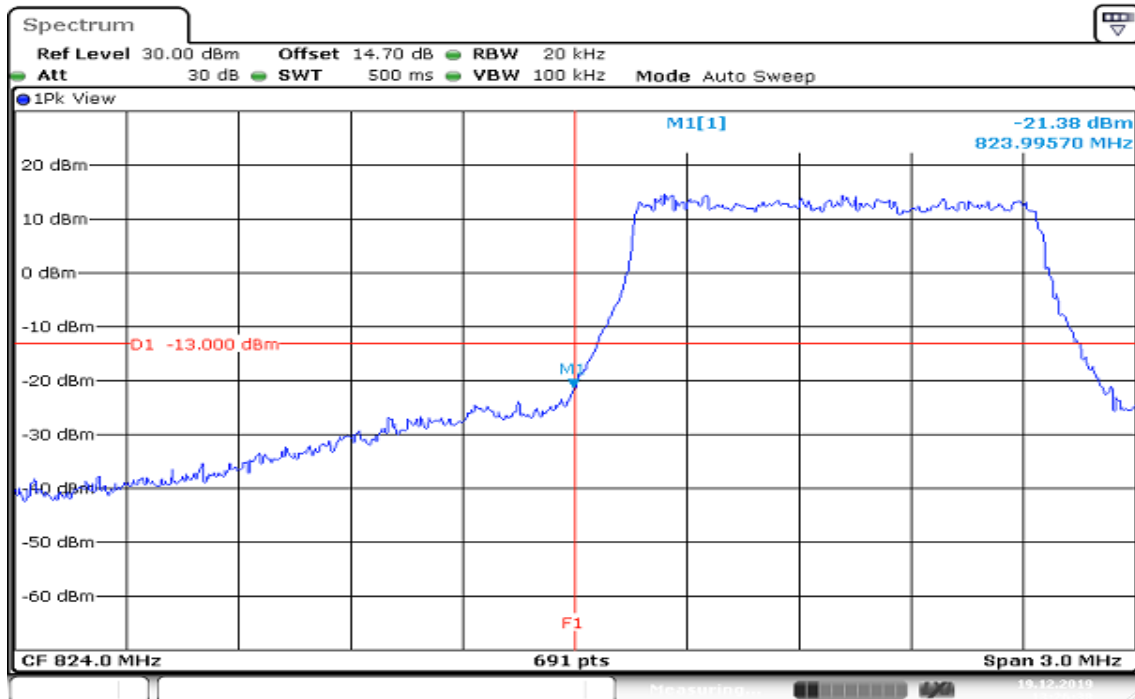
Date: 19.DEC.2019 13:29:59

HIGHER BAND EDGE

Date: 19.DEC.2019 13:31:07

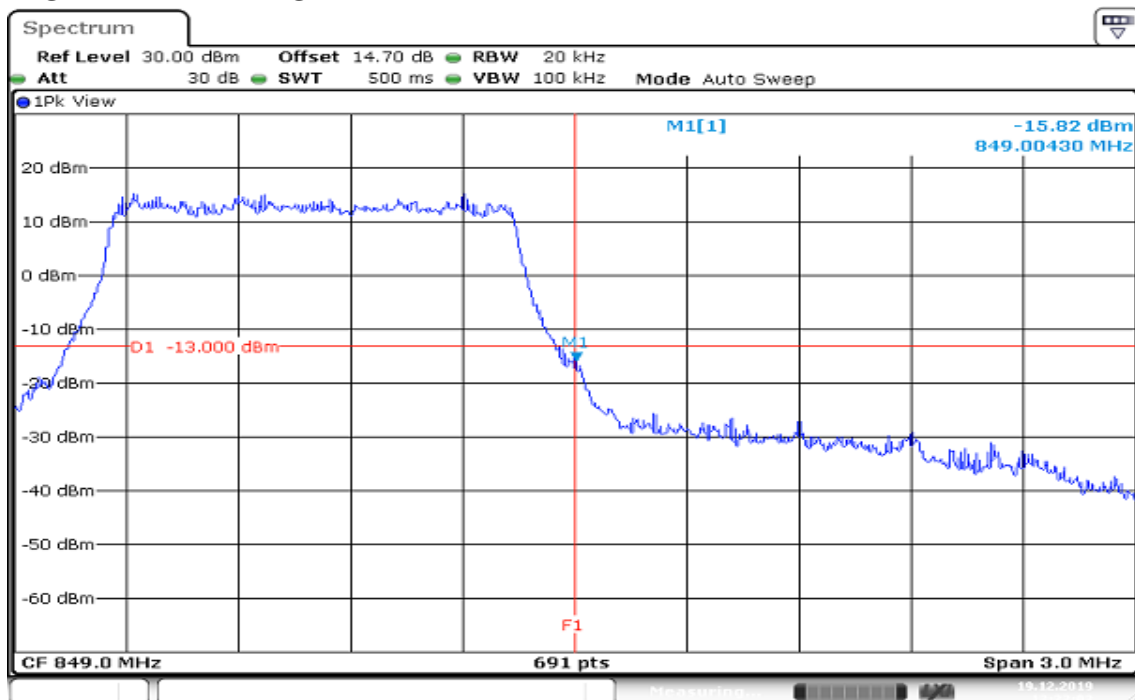
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 1.4MHz / 16QAM / Full RB ALLOCATED LOWER BAND EDGE



Date: 19.DEC.2019 13:26:38

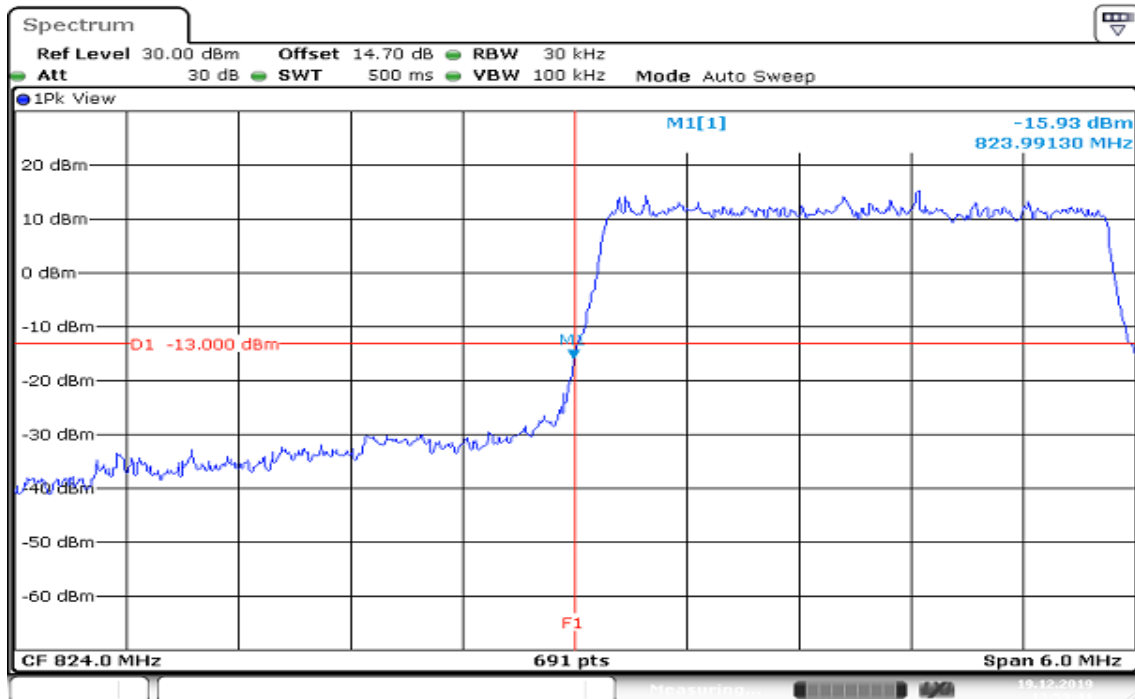
HIGHER BAND EDGE



Date: 19.DEC.2019 13:33:04

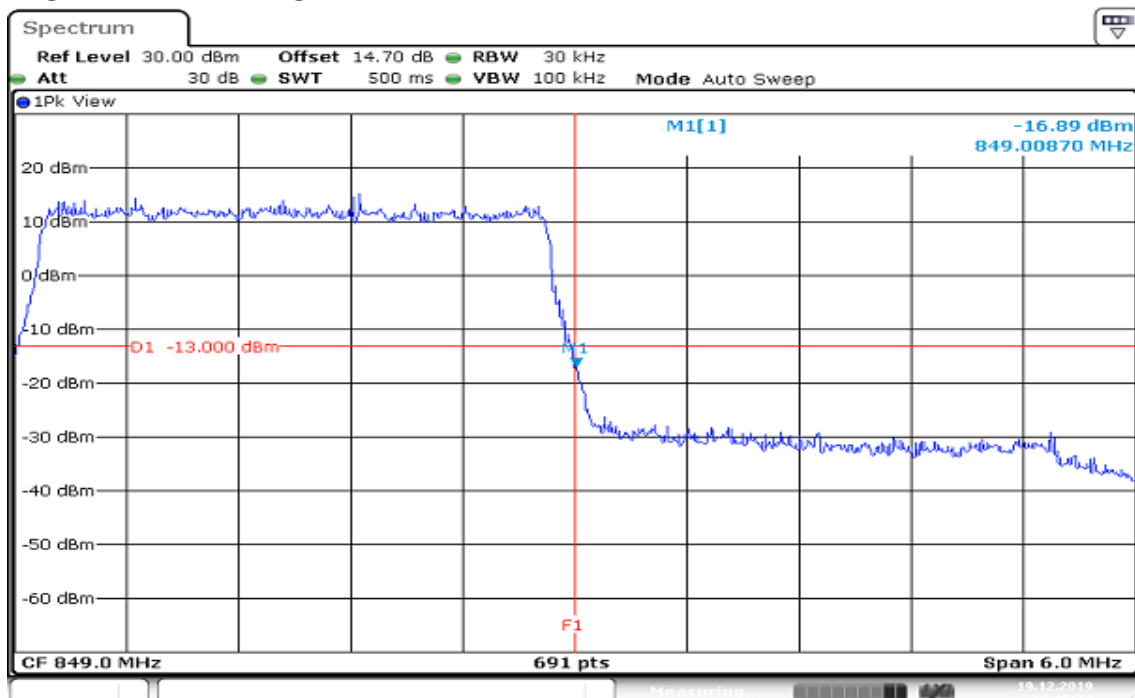
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 3MHz / QPSK / Full RB ALLOCATED LOWER BAND EDGE



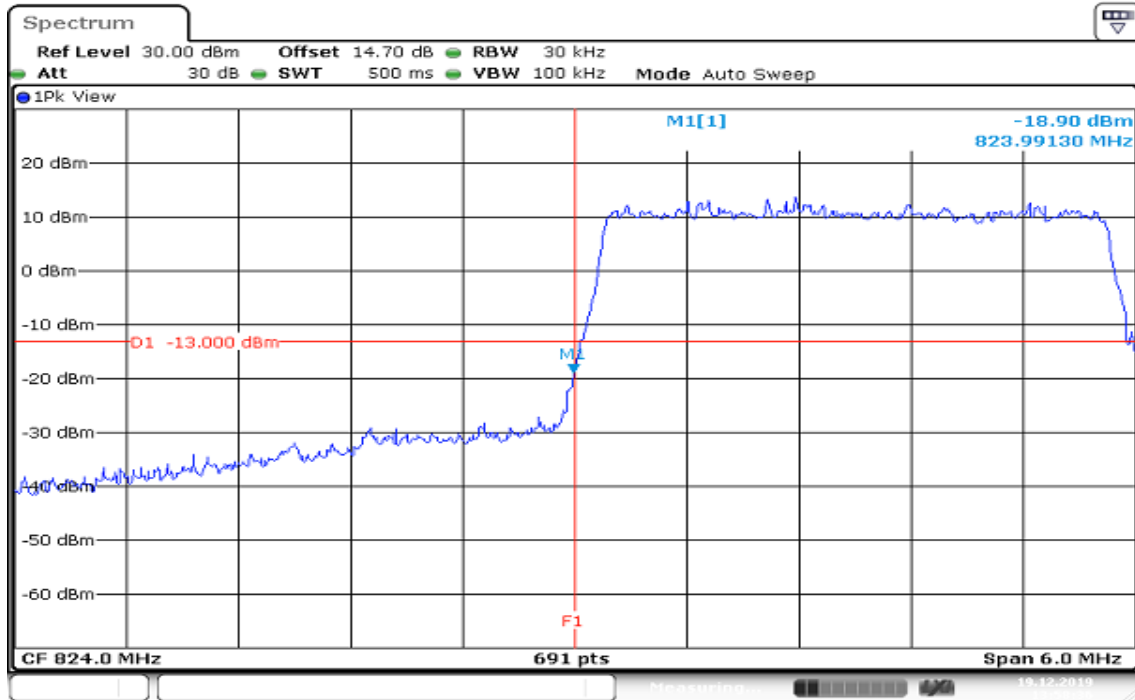
Date: 19.DEC.2019 13:59:42

HIGHER BAND EDGE

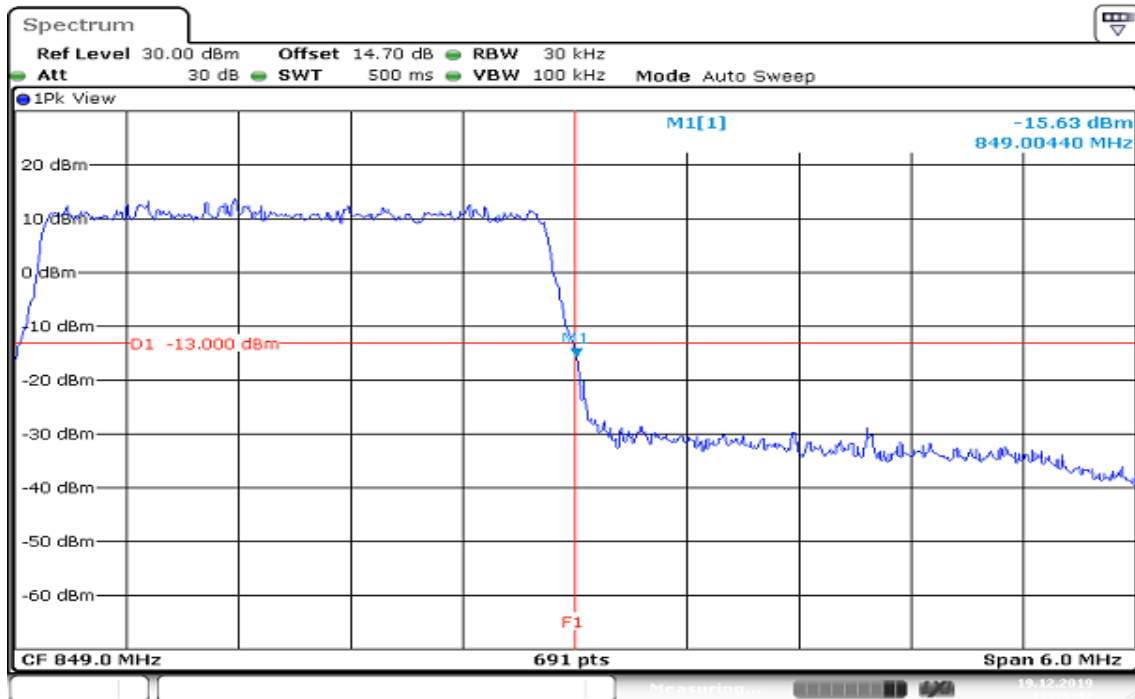


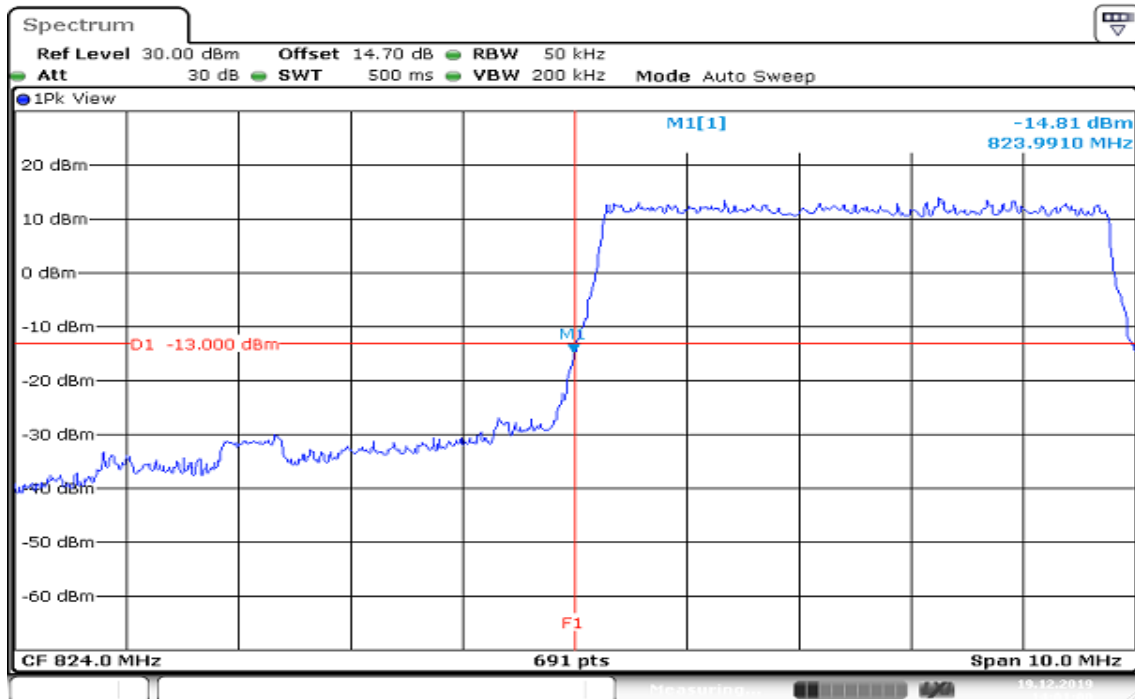
Date: 19.DEC.2019 13:40:13

CHANNEL BANDWIDTH: 3MHz / 16QAM / Full RB ALLOCATED LOWER BAND EDGE

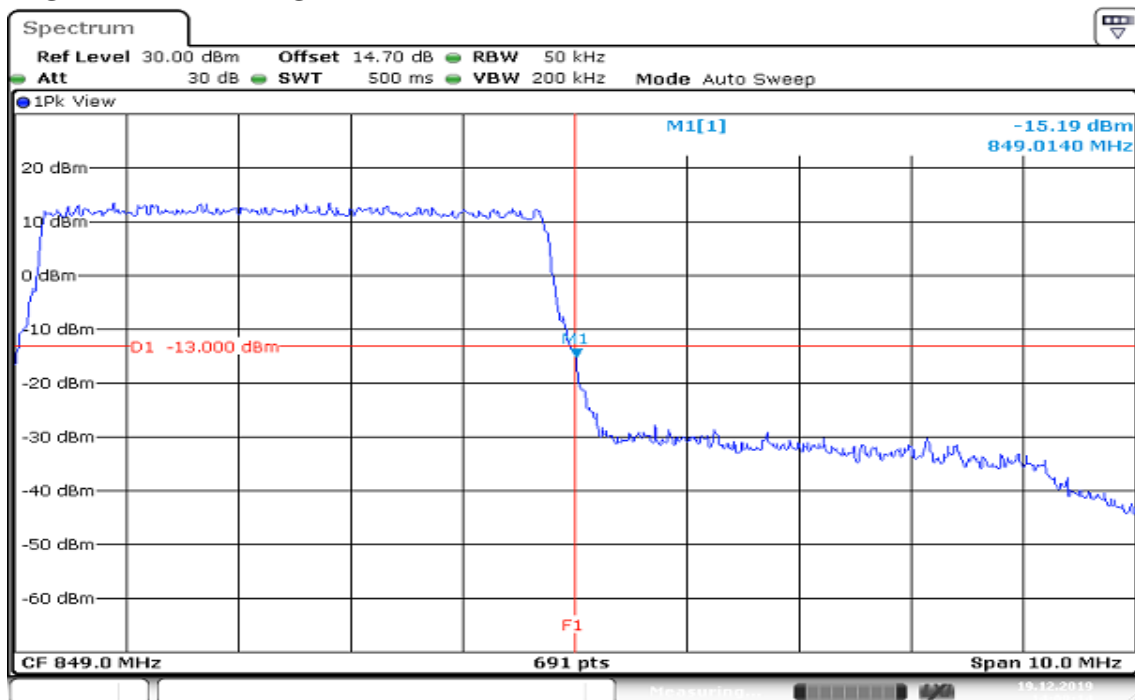


HIGHER BAND EDGE



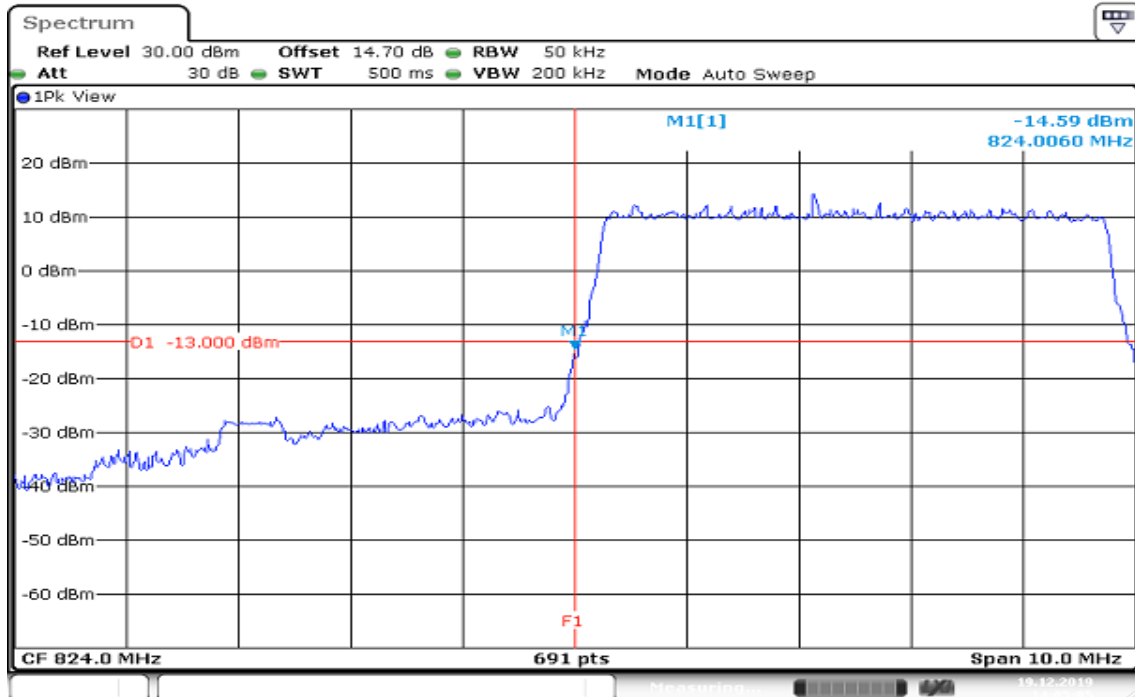
**CHANNEL BANDWIDTH: 5MHz / QPSK / Full RB ALLOCATED
LOWER BAND EDGE**

Date: 19.DEC.2019 14:01:01

HIGHER BAND EDGE

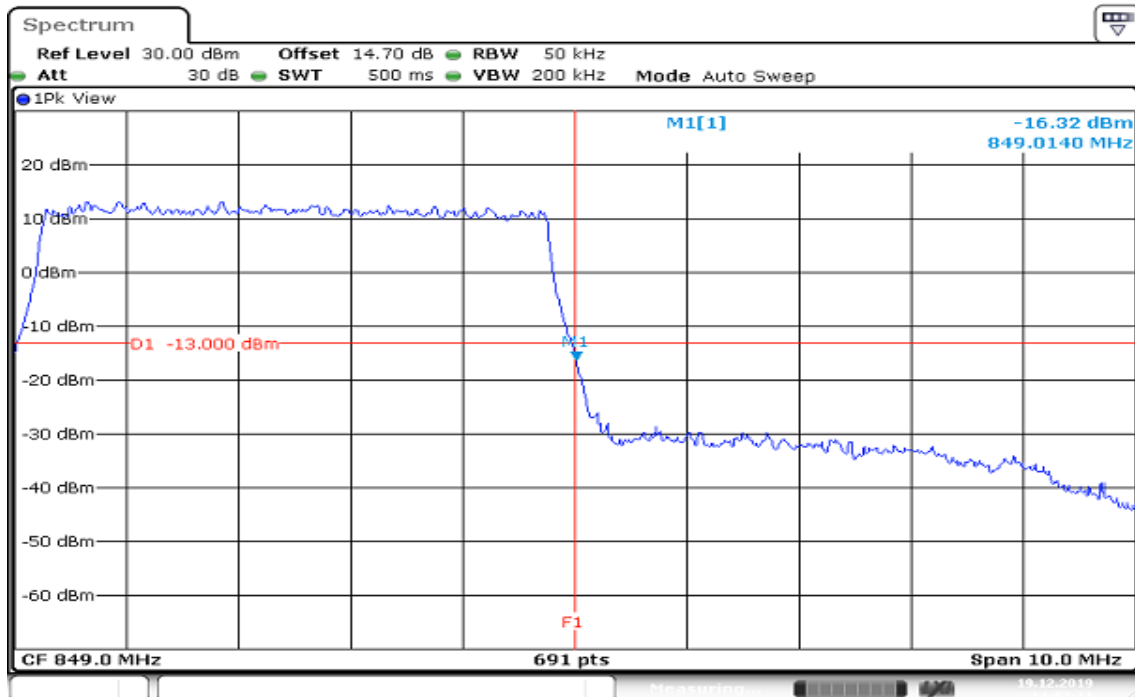
Date: 19.DEC.2019 14:09:15

CHANNEL BANDWIDTH: 5MHz / 16QAM / Full RB ALLOCATED LOWER BAND EDGE



Date: 19.DEC.2019 14:05:06

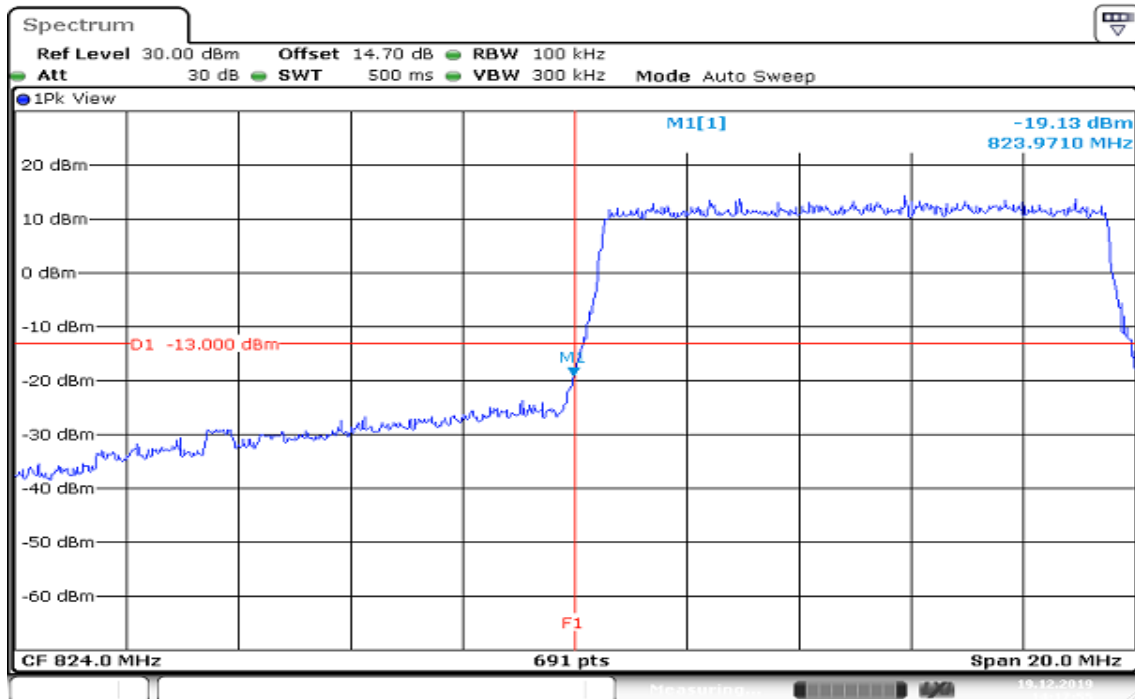
HIGHER BAND EDGE



Date: 19.DEC.2019 14:07:12

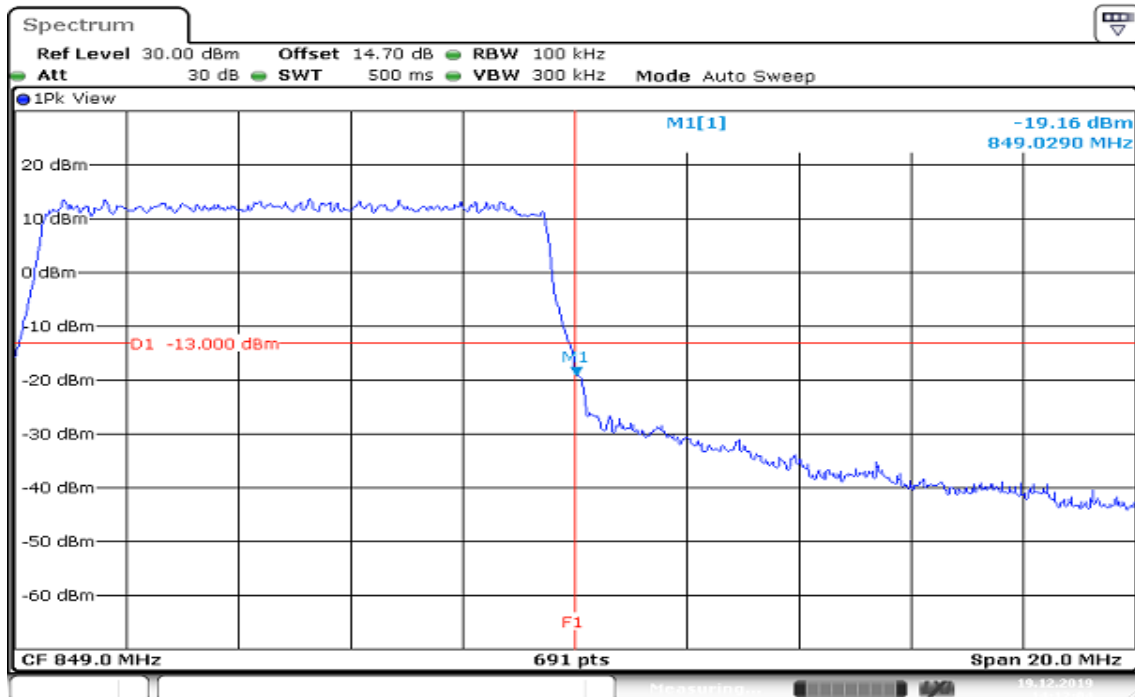
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 10MHz / QPSK / Full RB ALLOCATED LOWER BAND EDGE



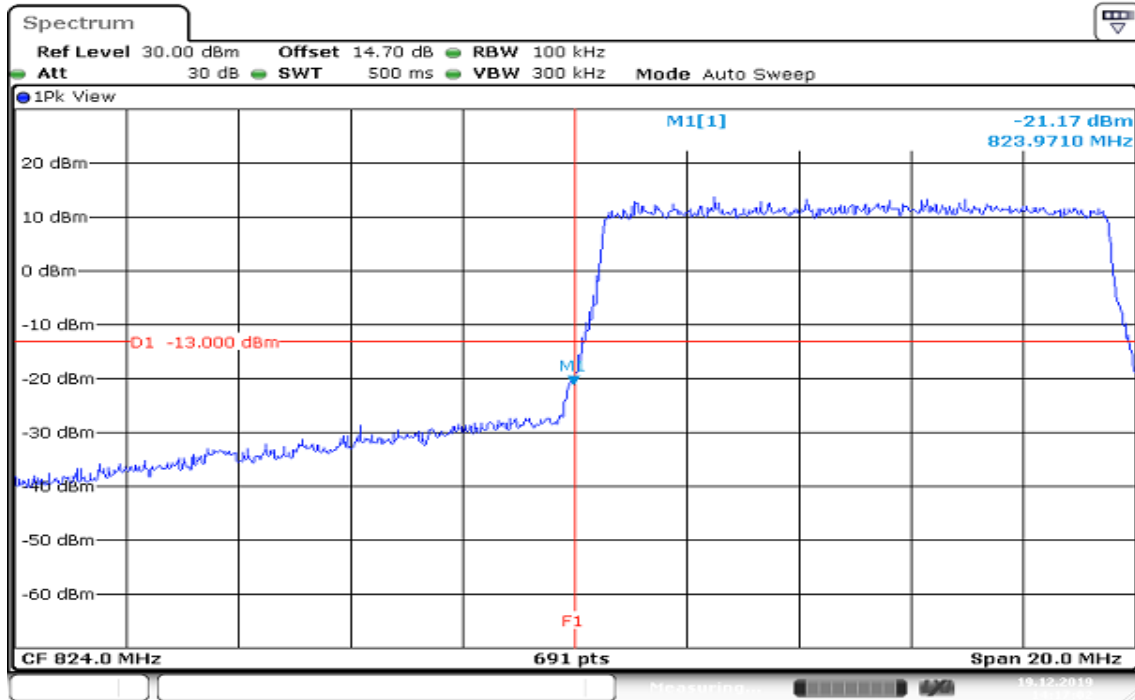
Date: 19.DEC.2019 14:17:55

HIGHER BAND EDGE



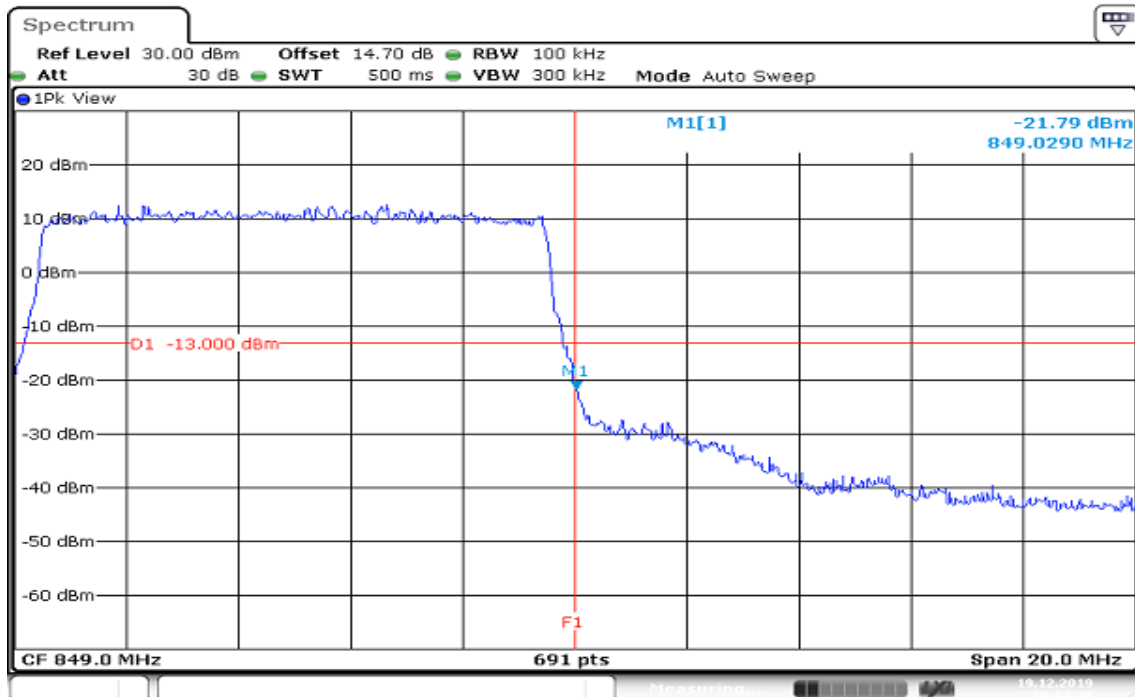
Date: 19.DEC.2019 14:12:04

CHANNEL BANDWIDTH: 10MHz / 16QAM / Full RB ALLOCATED LOWER BAND EDGE



Date: 19.DEC.2019 14:17:02

HIGHER BAND EDGE



Date: 19.DEC.2019 14:14:38

8.6 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

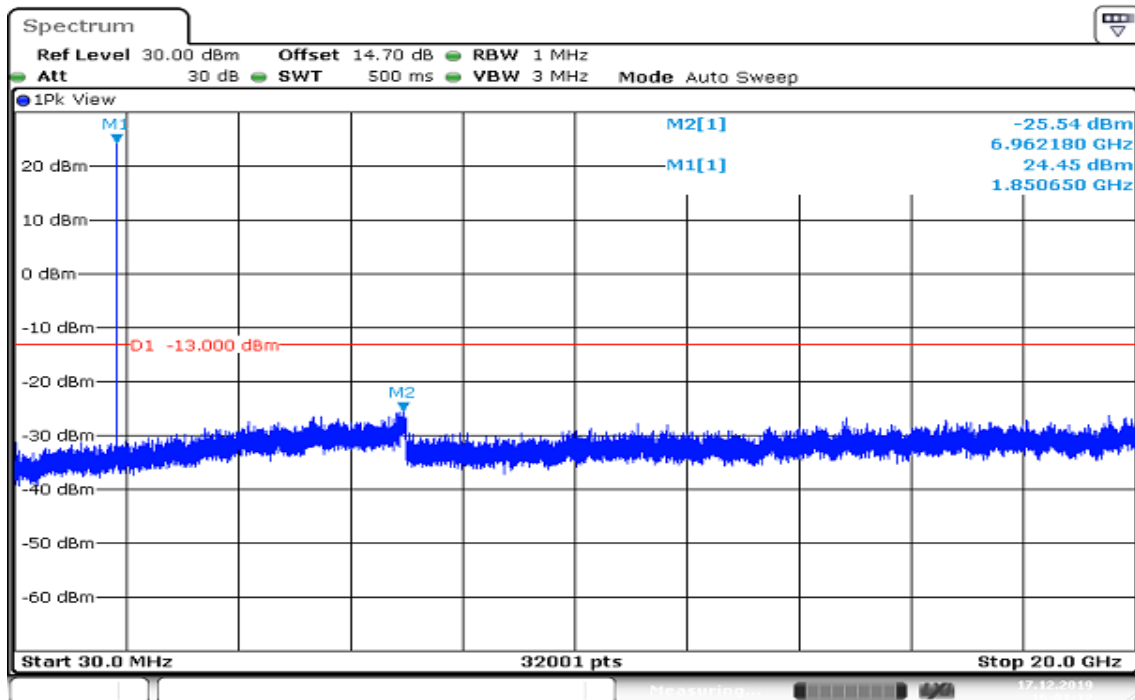
1. According to KDB 971168 D01,
2. The EUT was connect to spectrum analyzer and call box.
3. The RF output of EUT was connected to the spectrum analyzer.
4. Set the spectrum analyzer , RBW=1MHz, VBW=3MHz.
5. Record the maximum spurious emission.
6. The fundamental frequency should be excluded against the limit in operating band.

Test Results

LTE Band 2

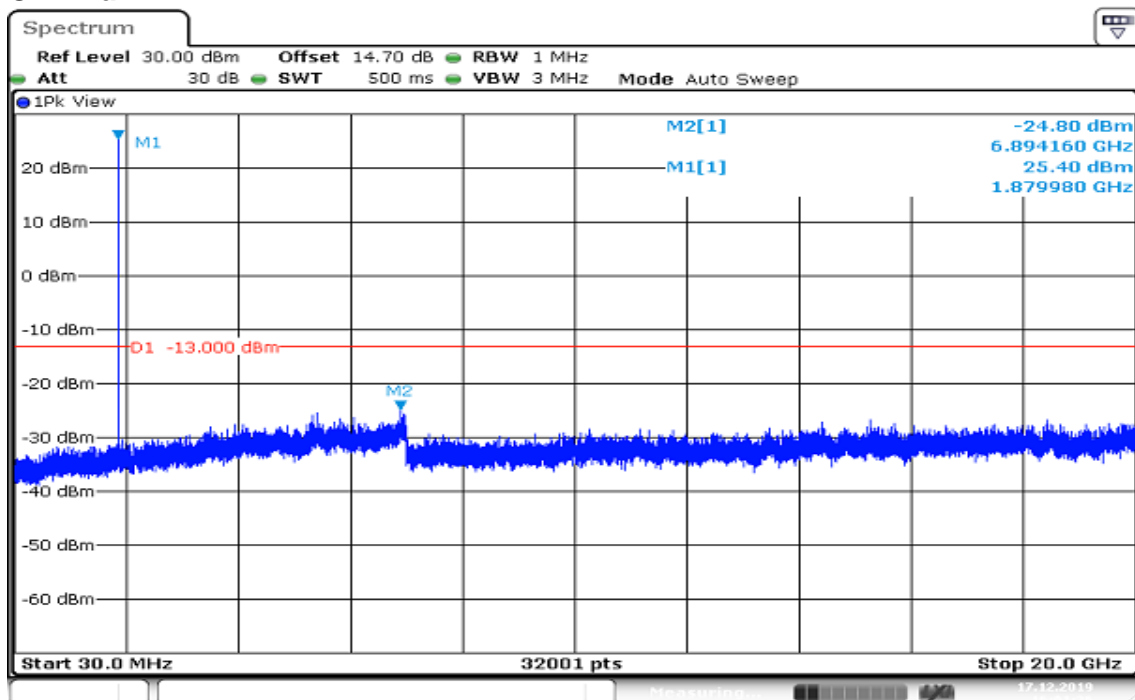
CHANNEL BANDWIDTH: 1.4MHz / QPSK / 1RB

CH Low



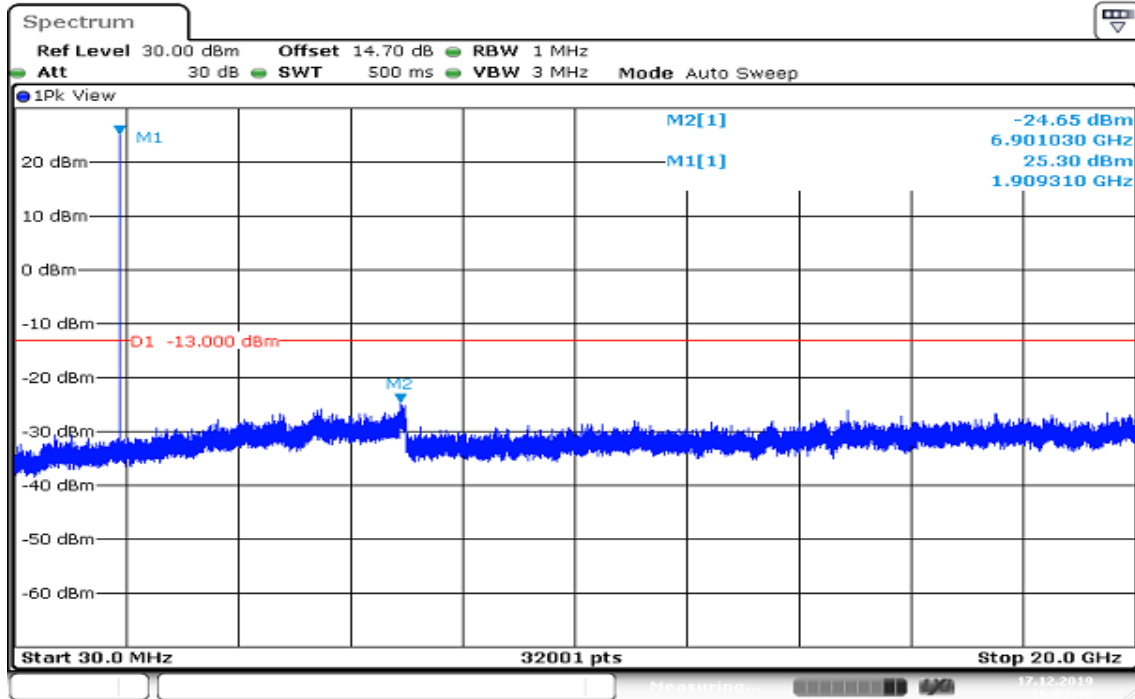
Date: 17.DEC.2019 16:01:13

CH Mid



Date: 17.DEC.2019 16:01:37

CH High



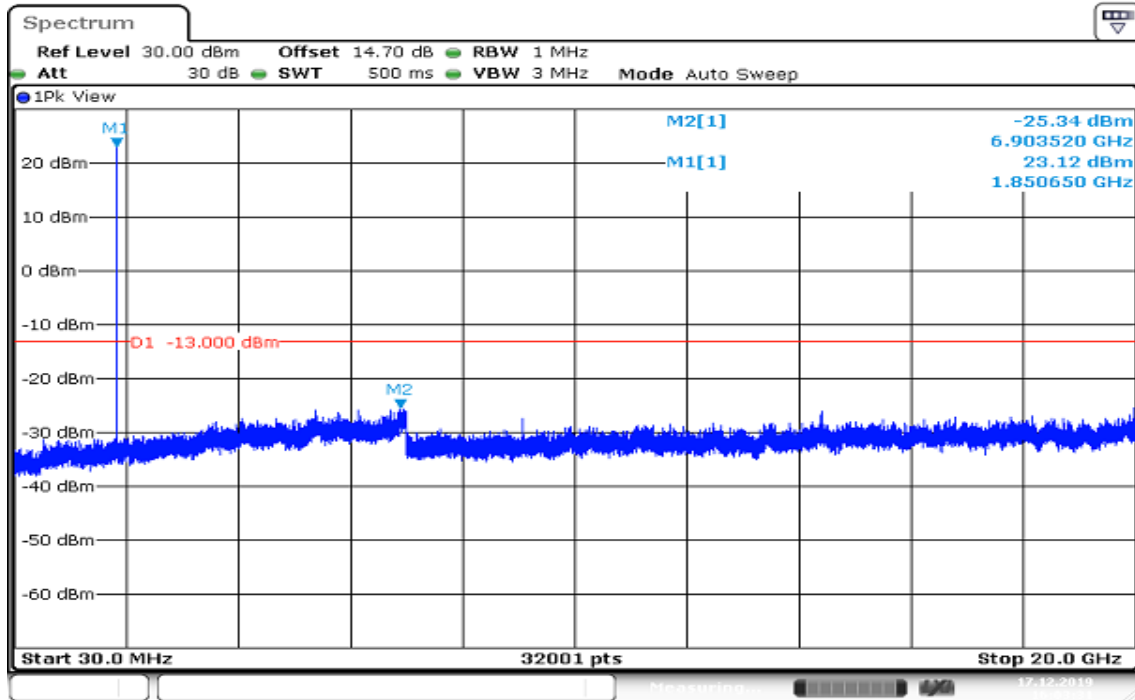
Date: 17.DEC.2019 16:02:46

Report No.: T191120D05-RP5

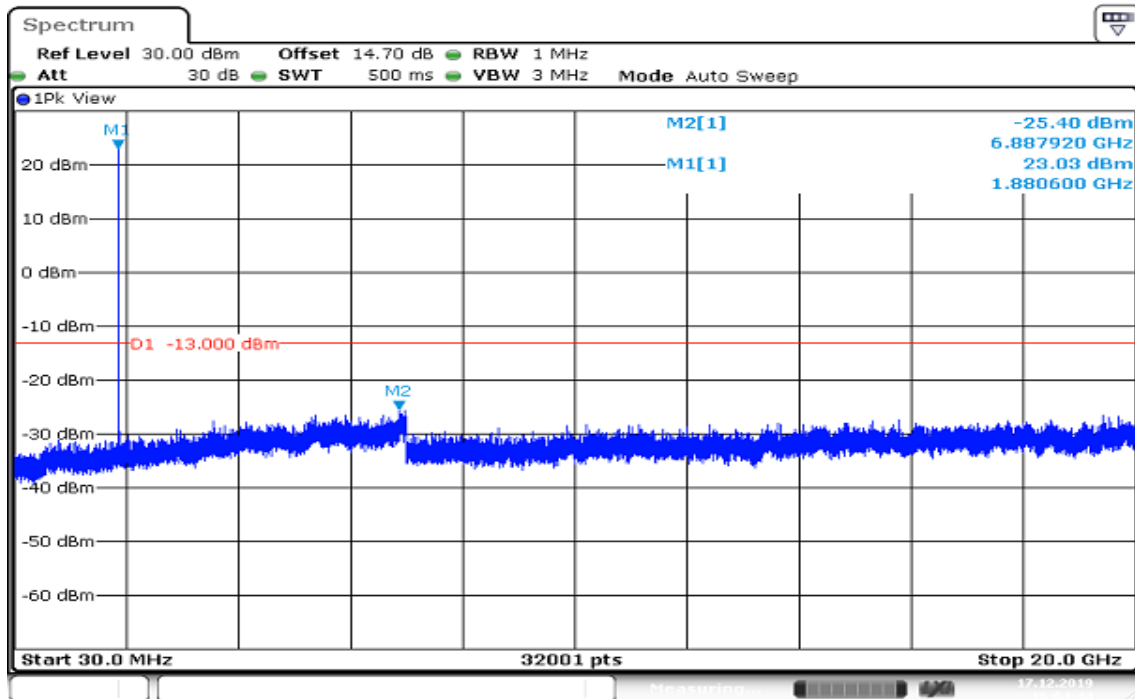
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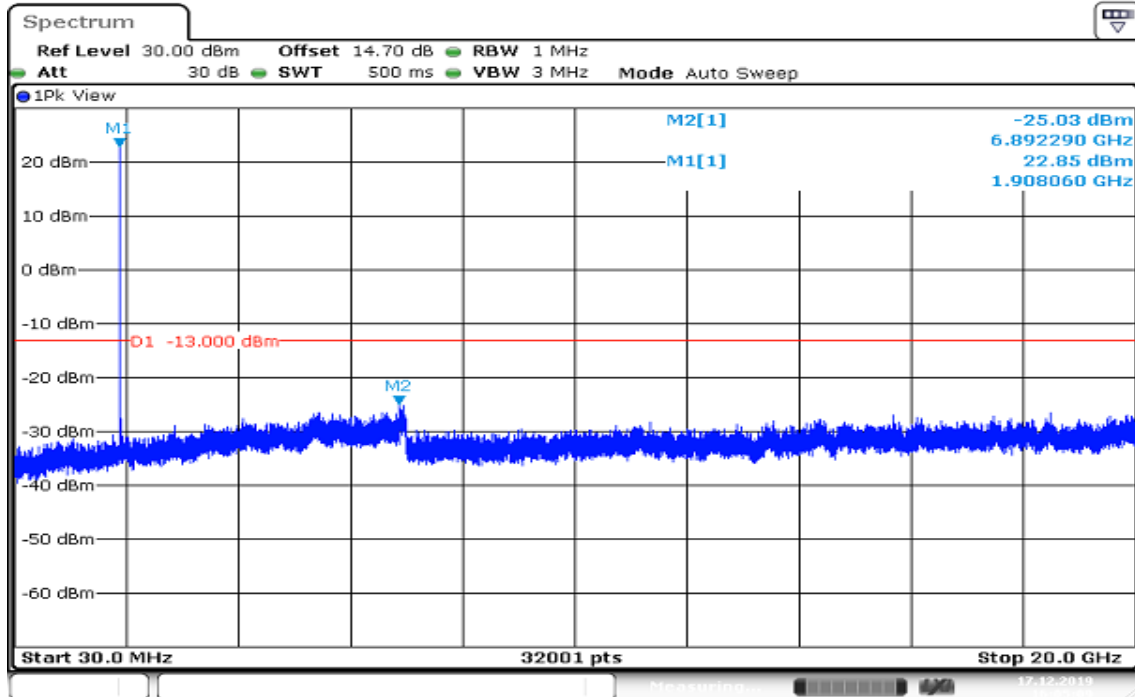
CHANNEL BANDWIDTH: 3MHz / QPSK / 1RB CH Low



CH Mid



CH High

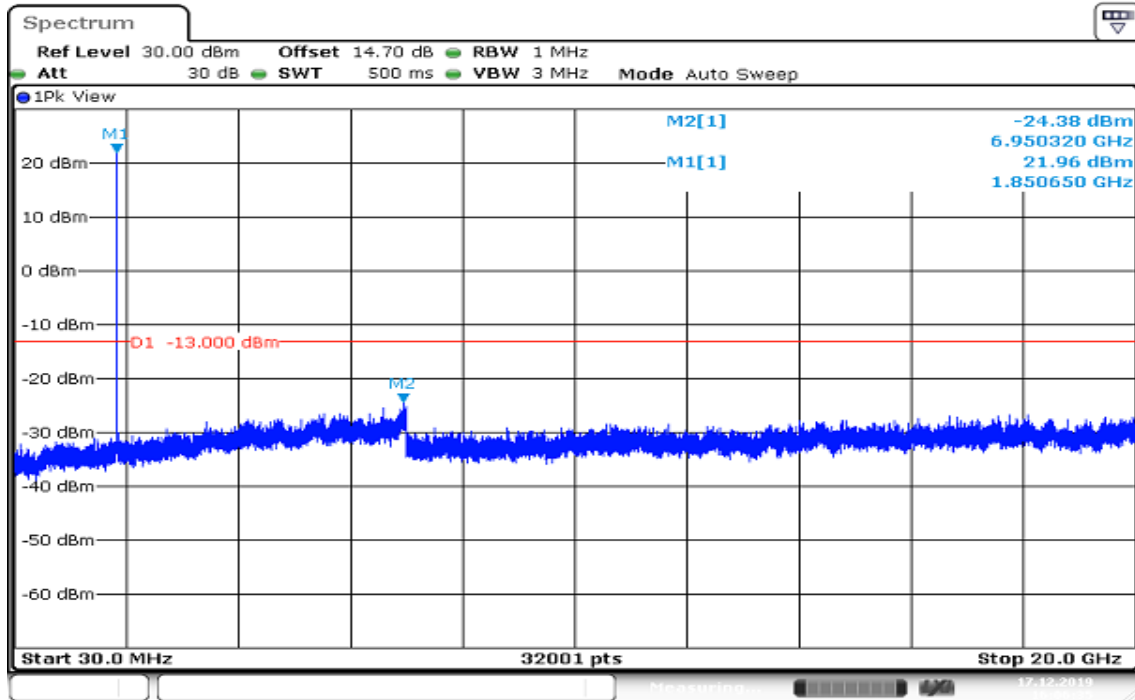


Date: 17.DEC.2019 16:05:09

Report No.: T191120D05-RP5

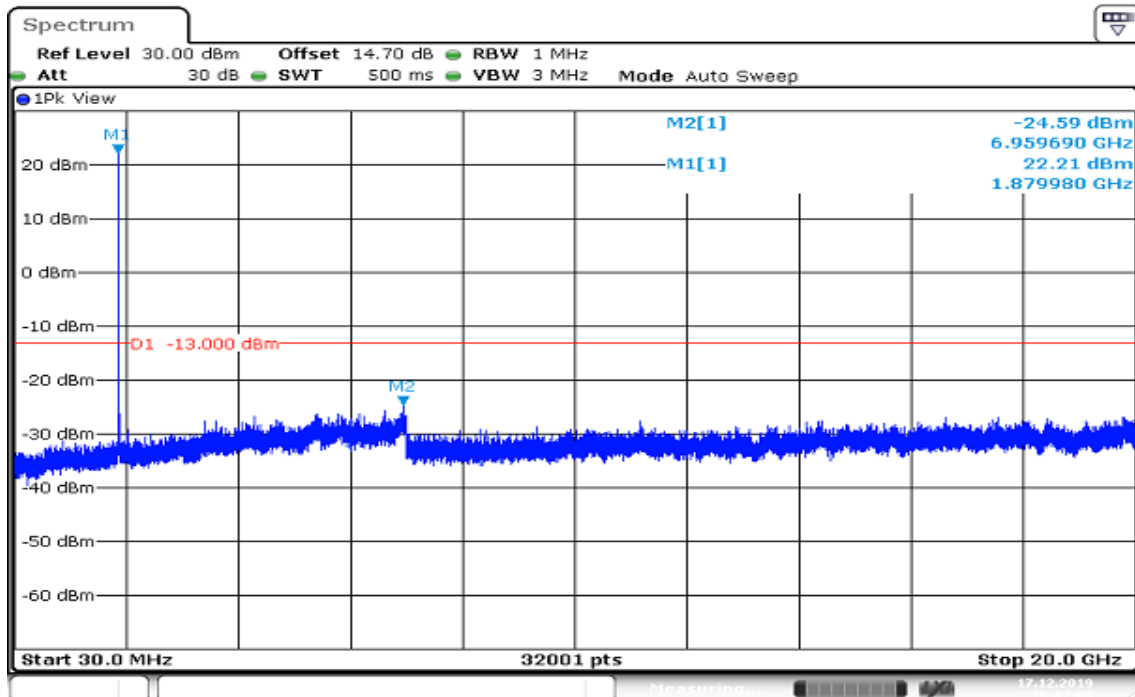
CHANNEL BANDWIDTH: 5MHz / QPSK / 1RB

CH Low



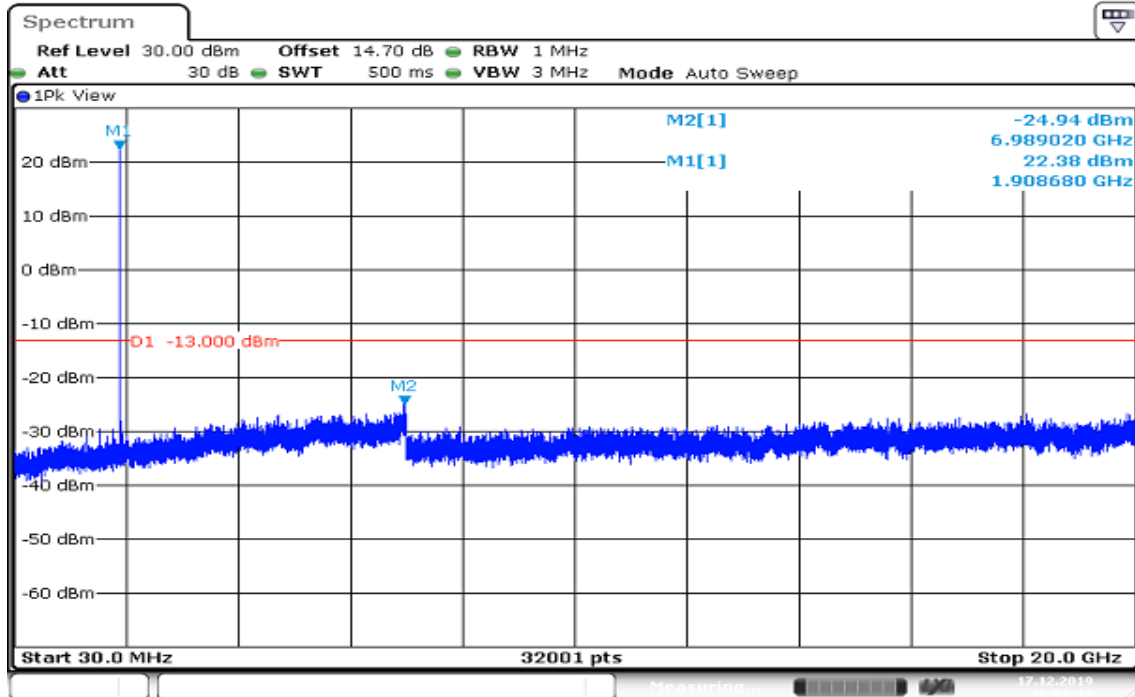
Date: 17.DEC.2019 16:06:36

CH Mid



Date: 17.DEC.2019 16:07:01

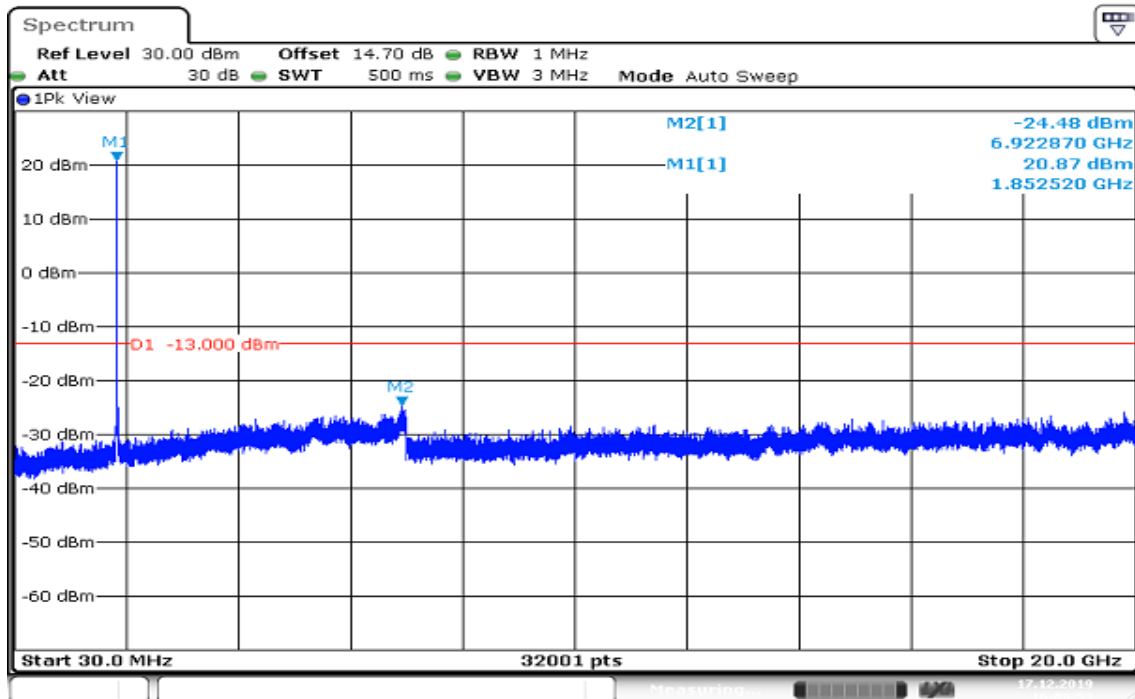
CH High



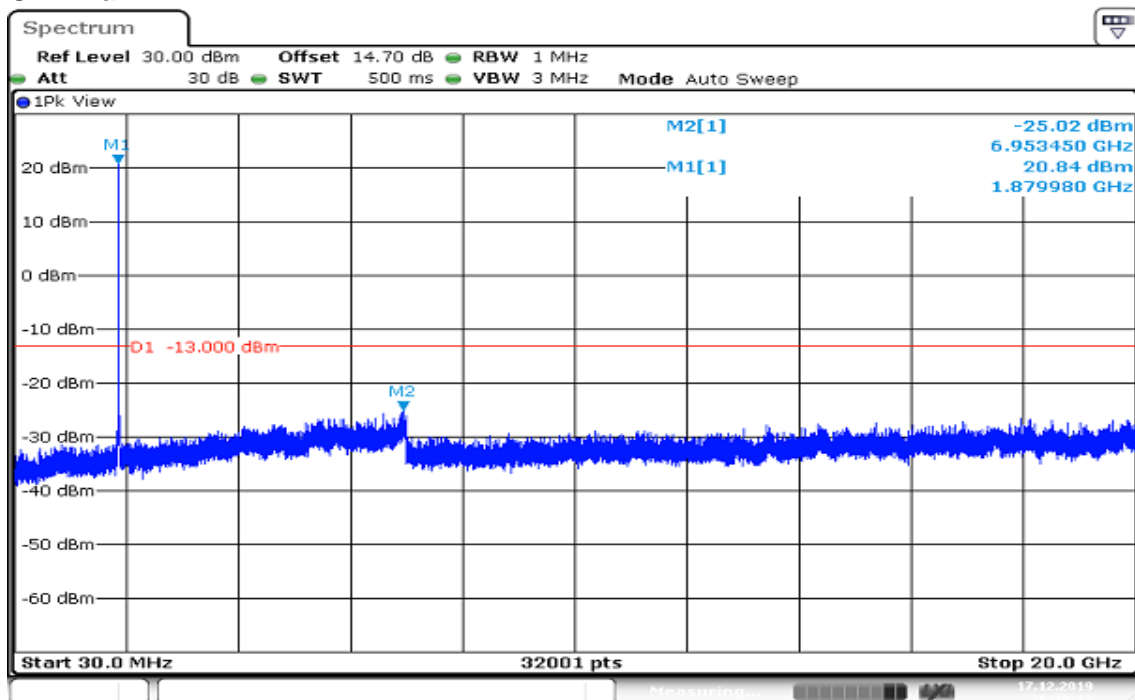
Date: 17.DEC.2019 16:08:14

Report No.: T191120D05-RP5

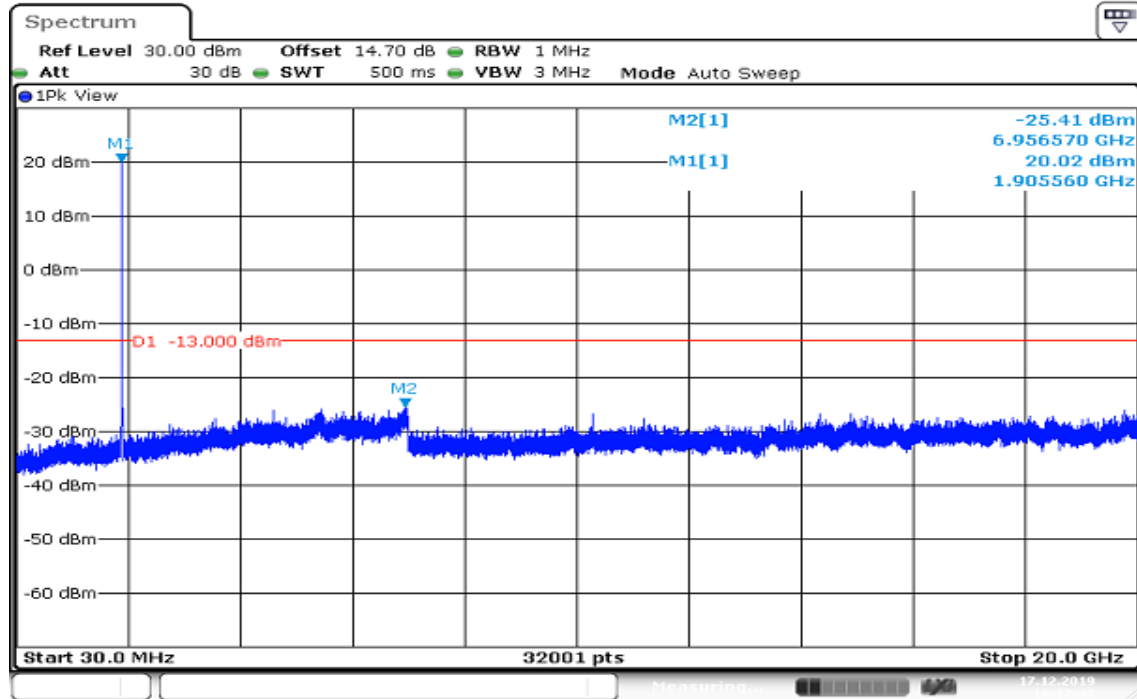
CHANNEL BANDWIDTH: 10MHz / QPSK / 1RB CH Low



CH Mid



CH High



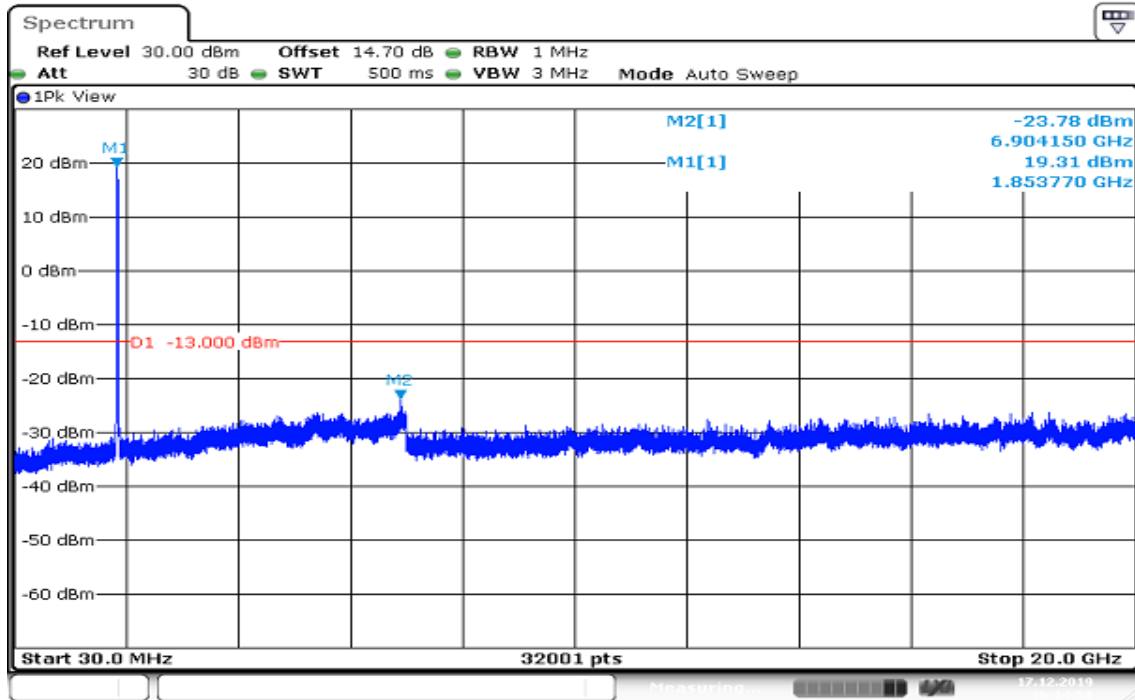
Date: 17.DEC.2019 16:12:47

Report No.: T191120D05-RP5

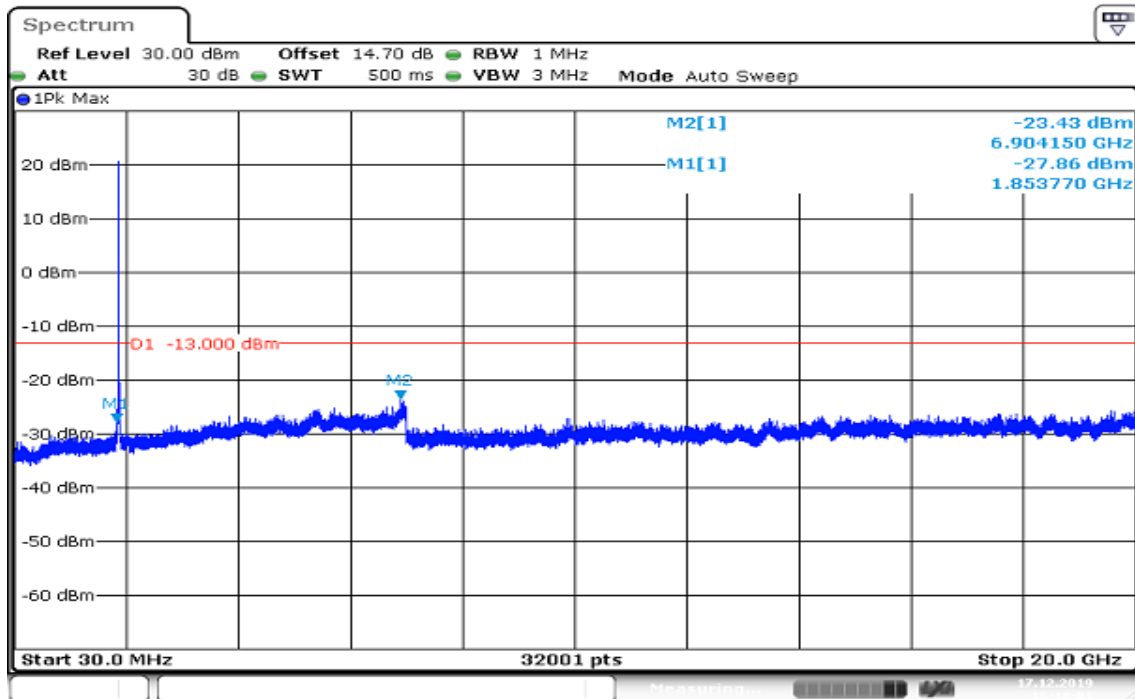
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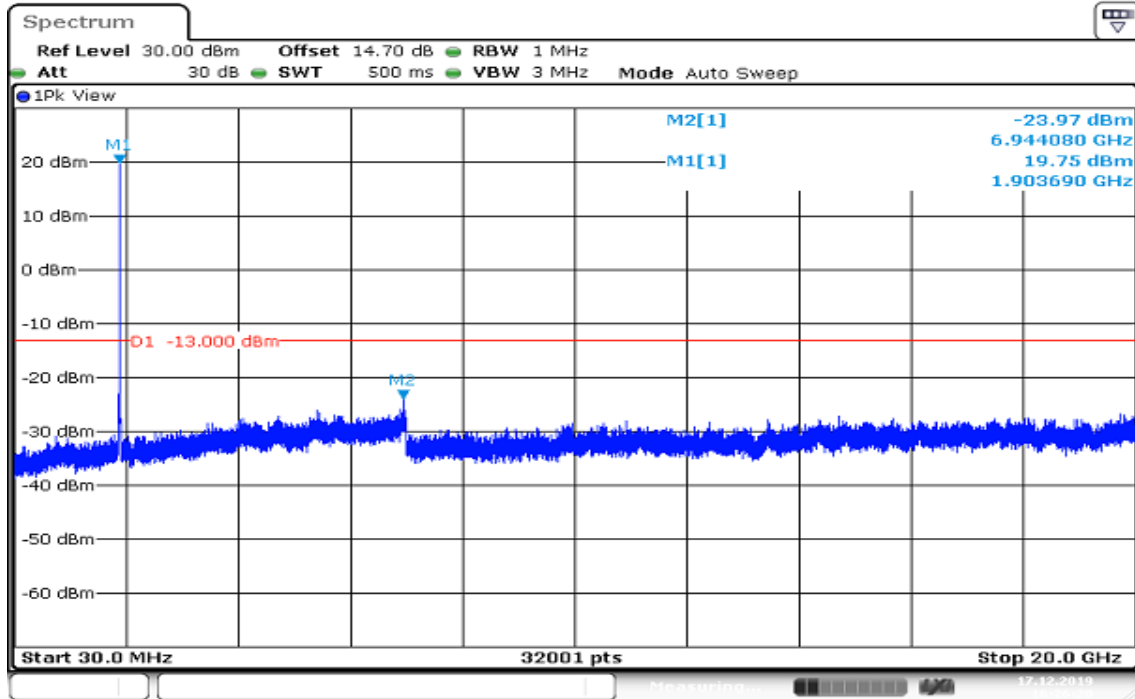
CHANNEL BANDWIDTH: 15MHz / QPSK / 1RB CH Low



CH Mid



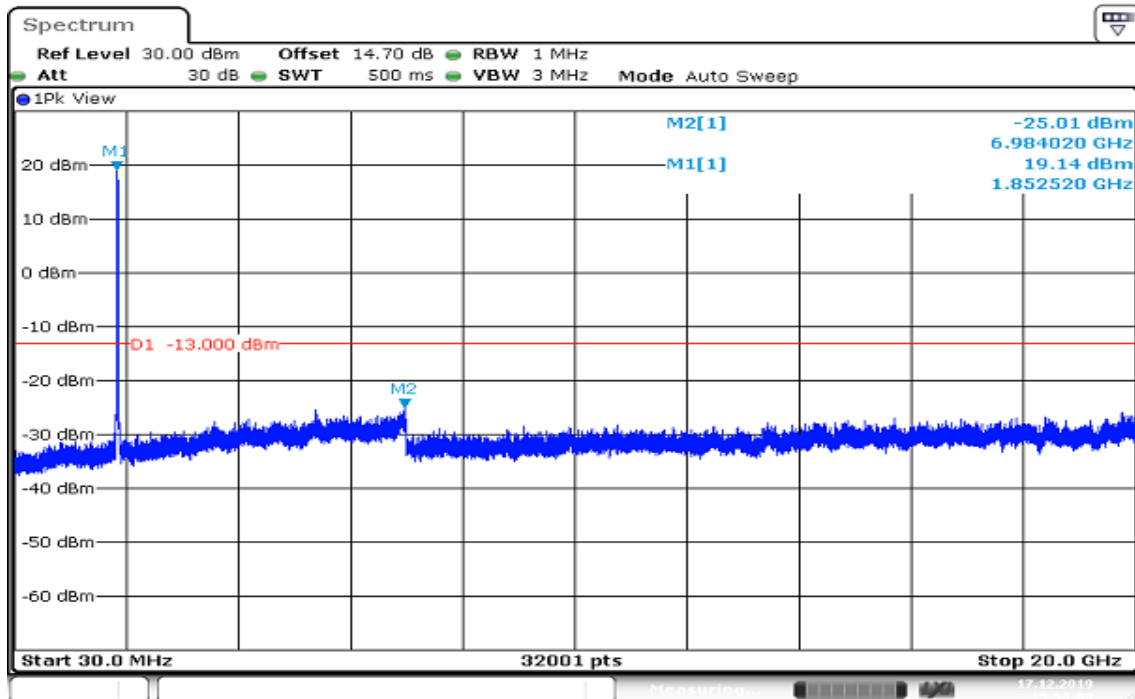
CH High



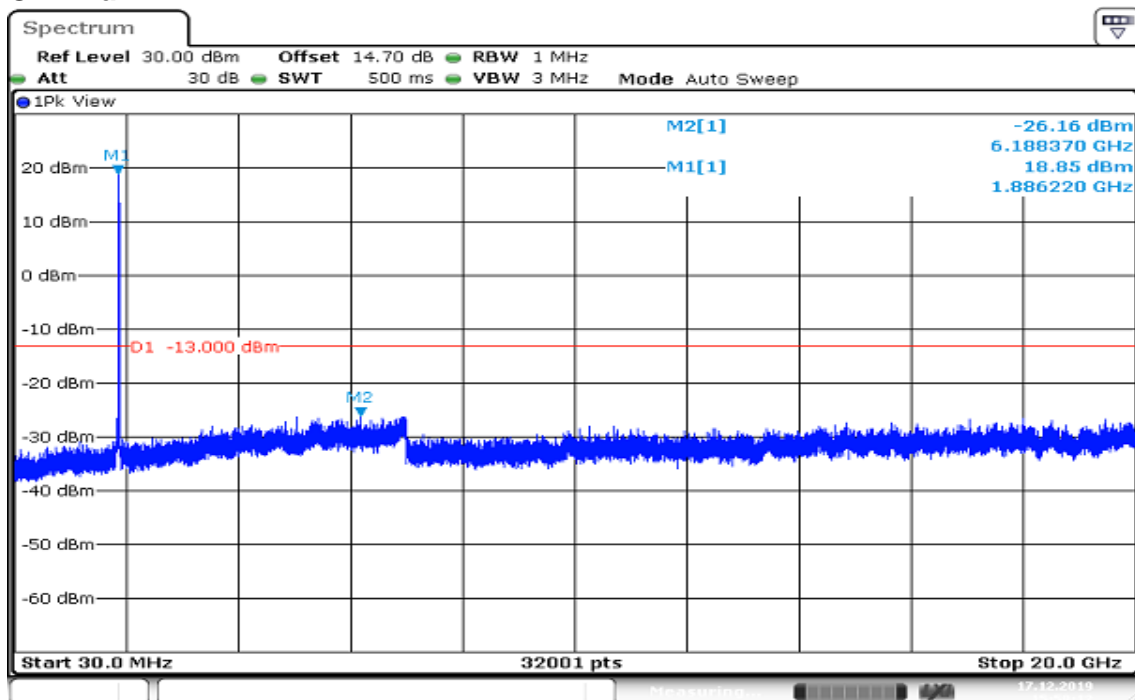
Date: 17.DEC.2019 16:26:20

Report No.: T191120D05-RP5

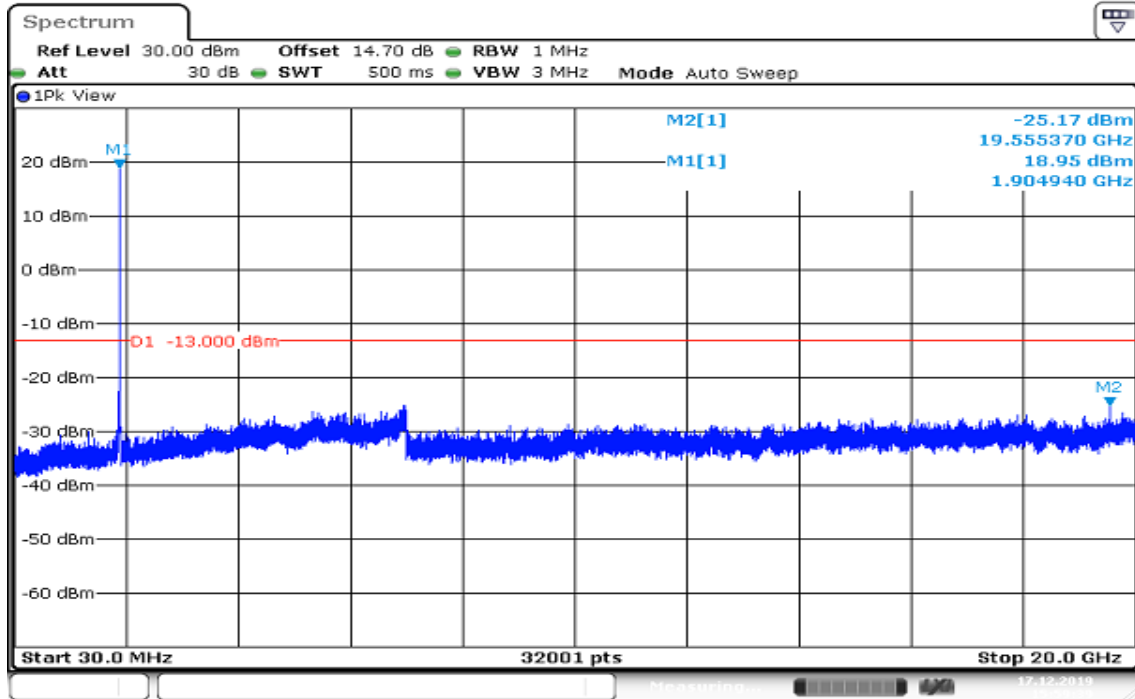
CHANNEL BANDWIDTH: 20MHz / QPSK / 1RB CH Low



CH Mid



CH High

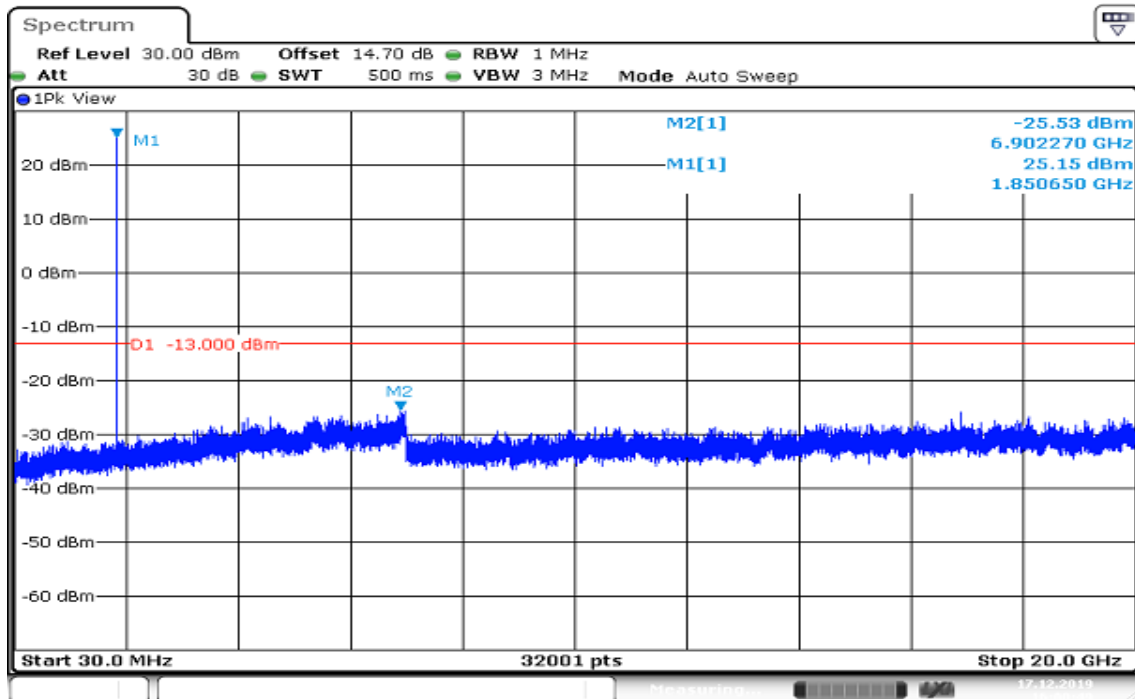


Date: 17.DEC.2019 15:59:39

Report No.: T191120D05-RP5

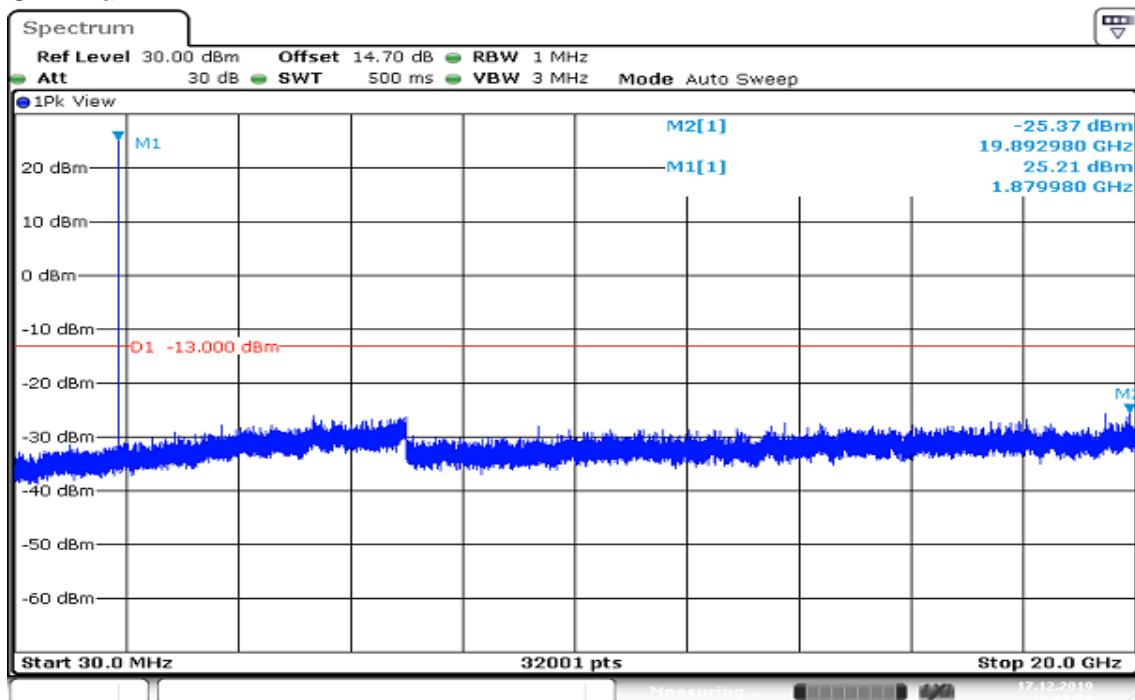
CHANNEL BANDWIDTH: 1.4MHz / 16QAM / 1RB

CH Low



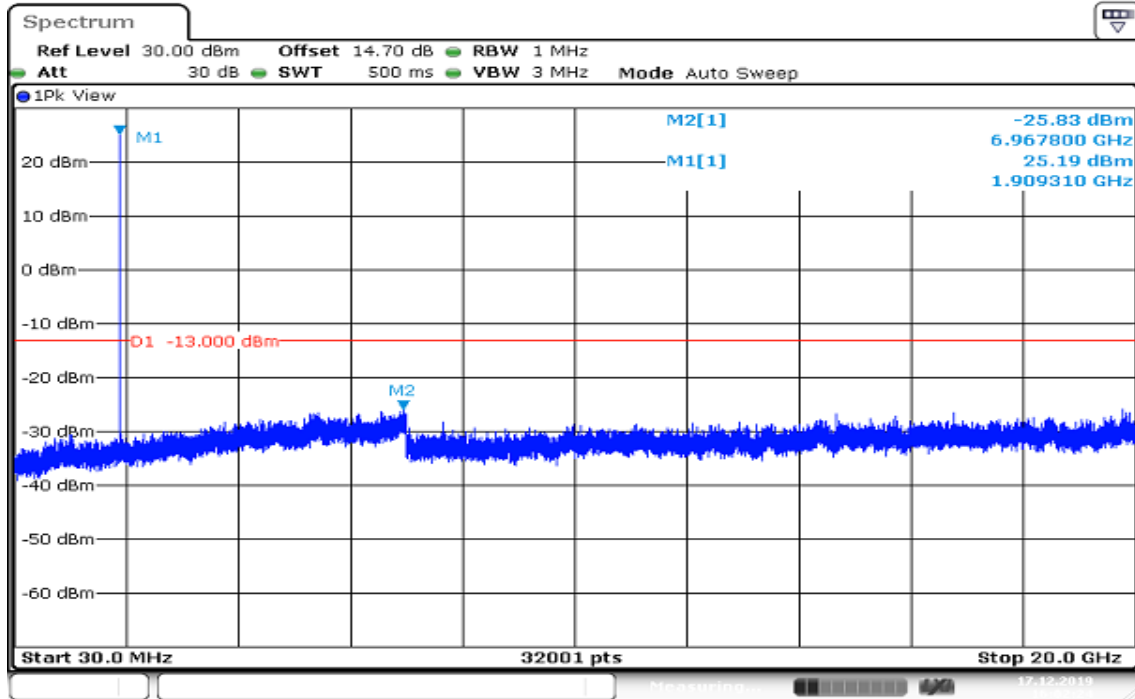
Date: 17.DEC.2019 16:00:50

CH Mid



Date: 17.DEC.2019 16:01:58

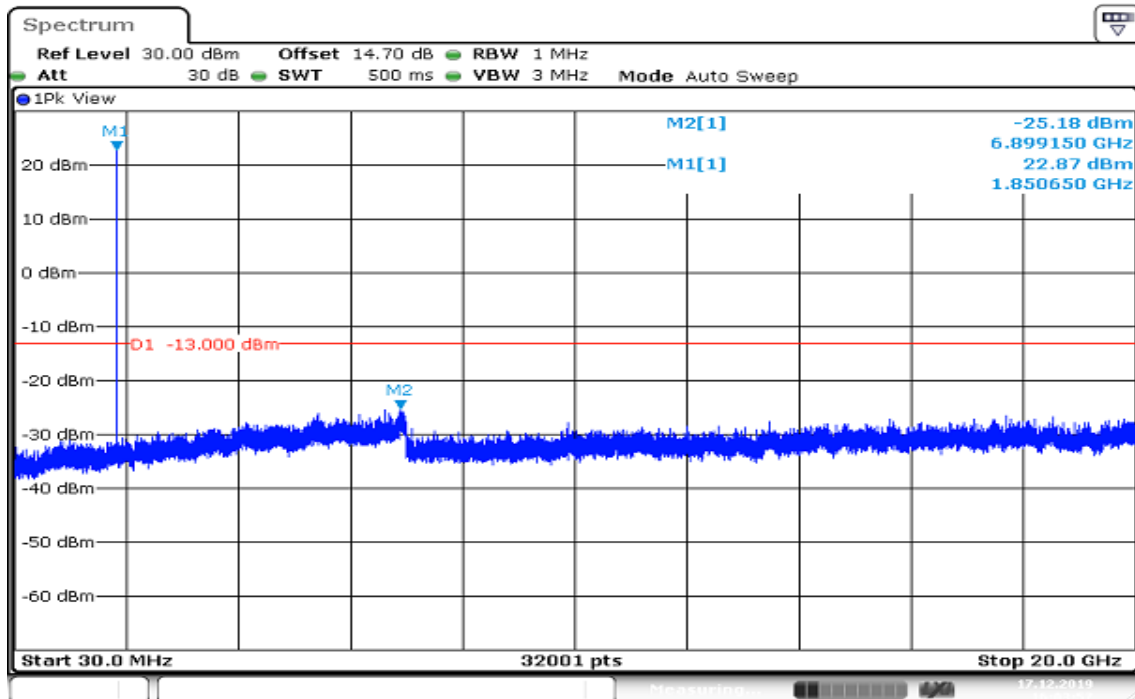
CH High



Date: 17.DEC.2019 16:02:25

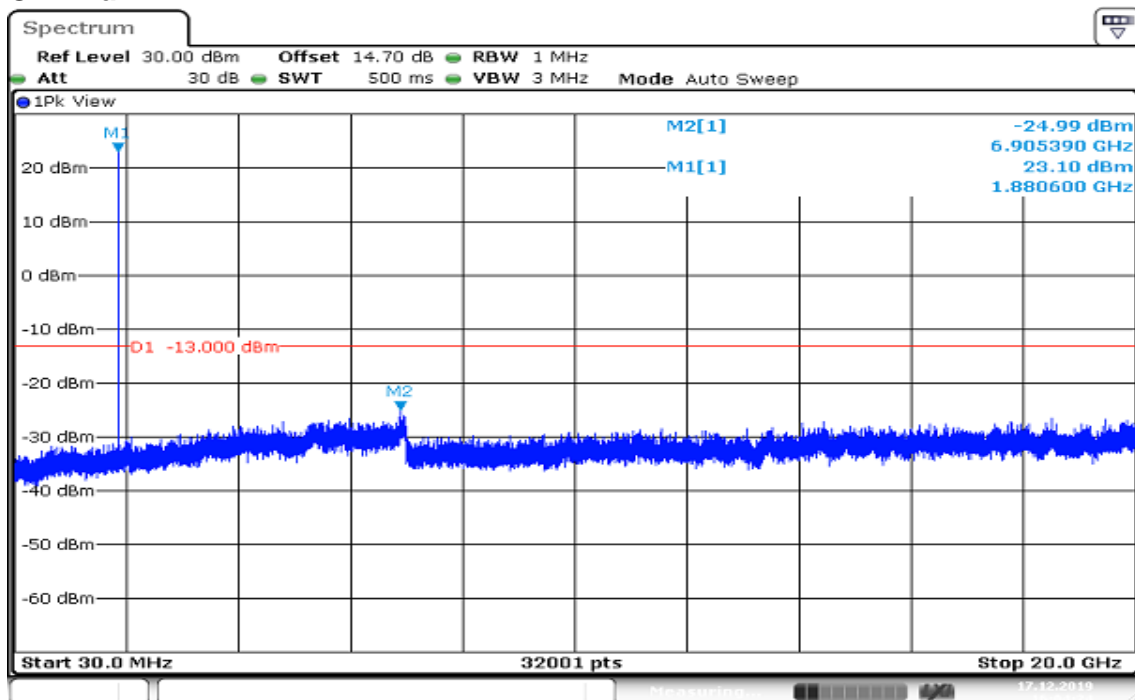
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 3MHz / 16QAM / 1RB CH Low



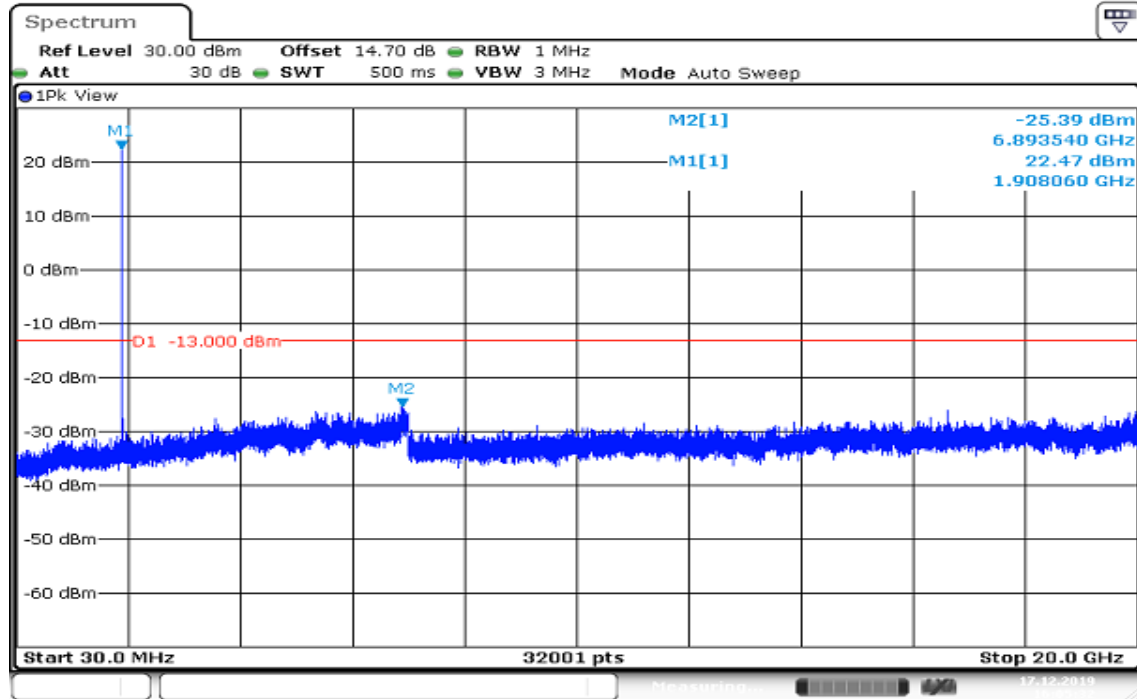
Date: 17.DEC.2019 16:03:58

CH Mid



Date: 17.DEC.2019 16:04:25

CH High

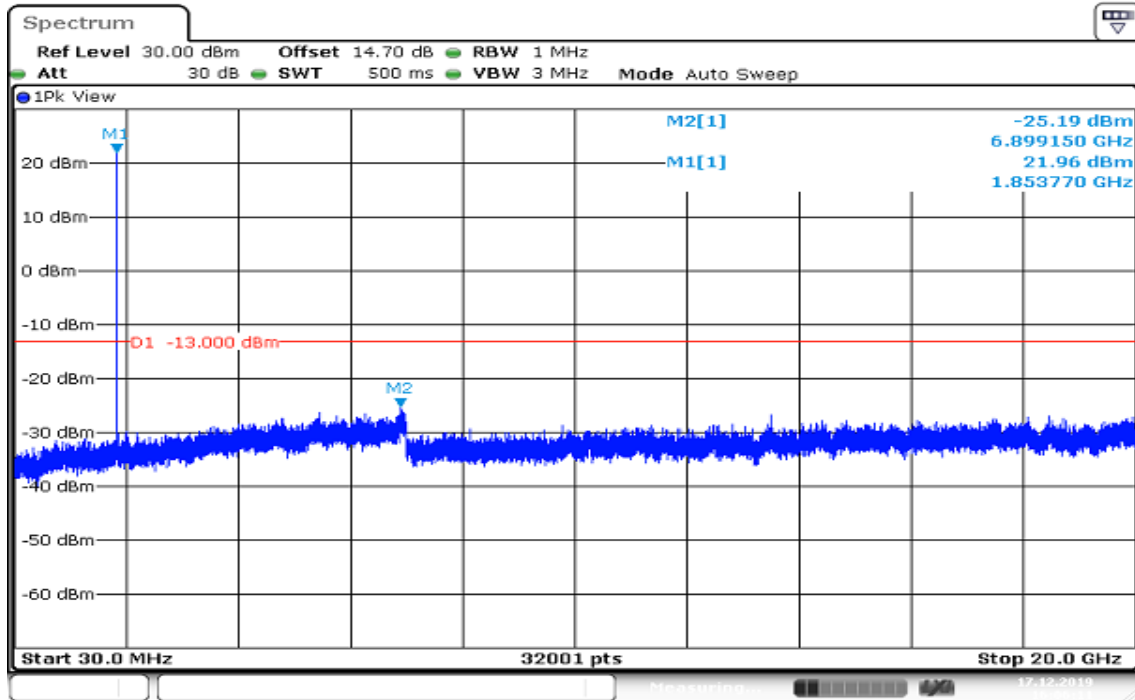


Date: 17.DEC.2019 16:05:33

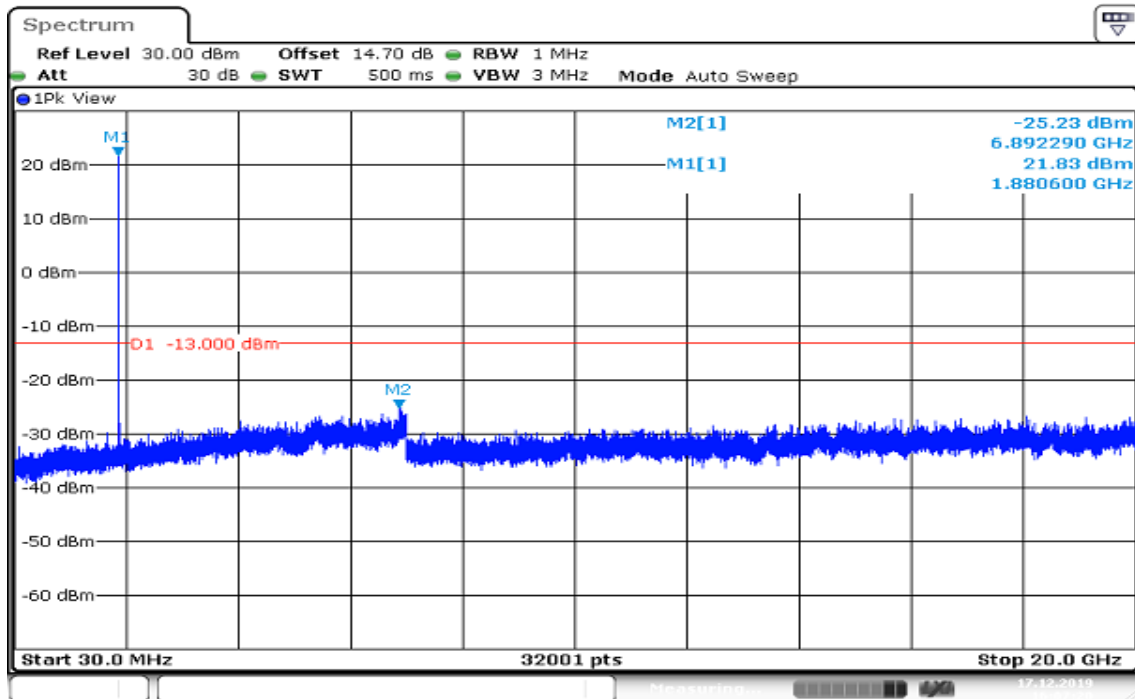
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 5MHz / 16QAM / 1RB

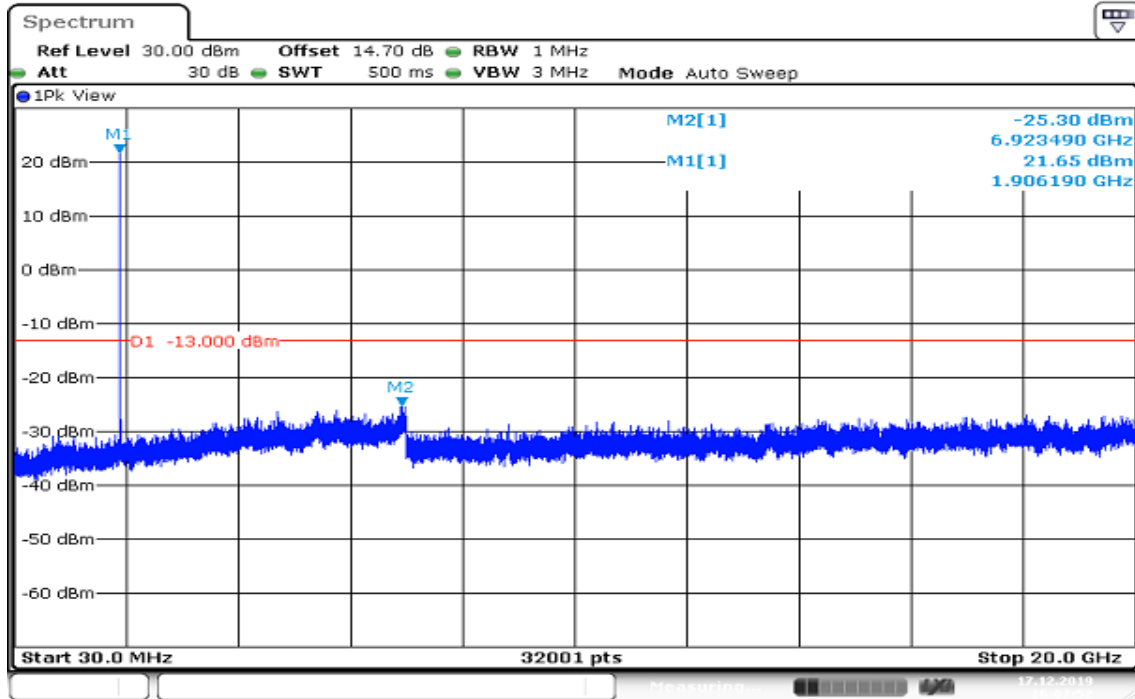
CH Low



CH Mid



CH High

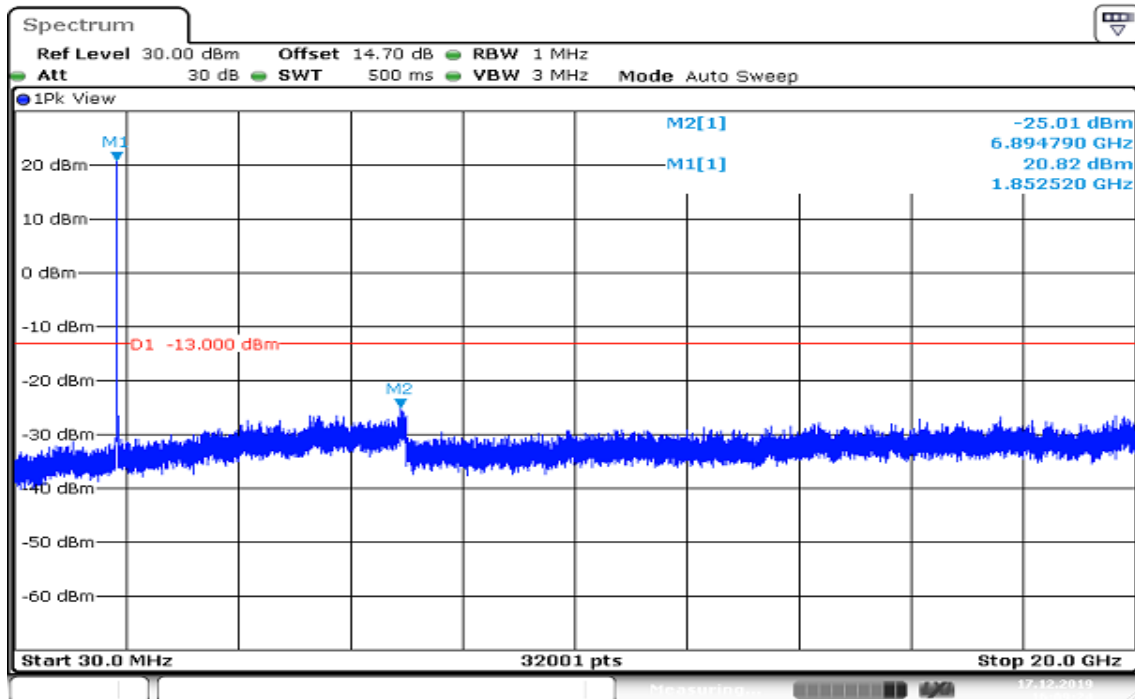


Date: 17.DEC.2019 16:07:52

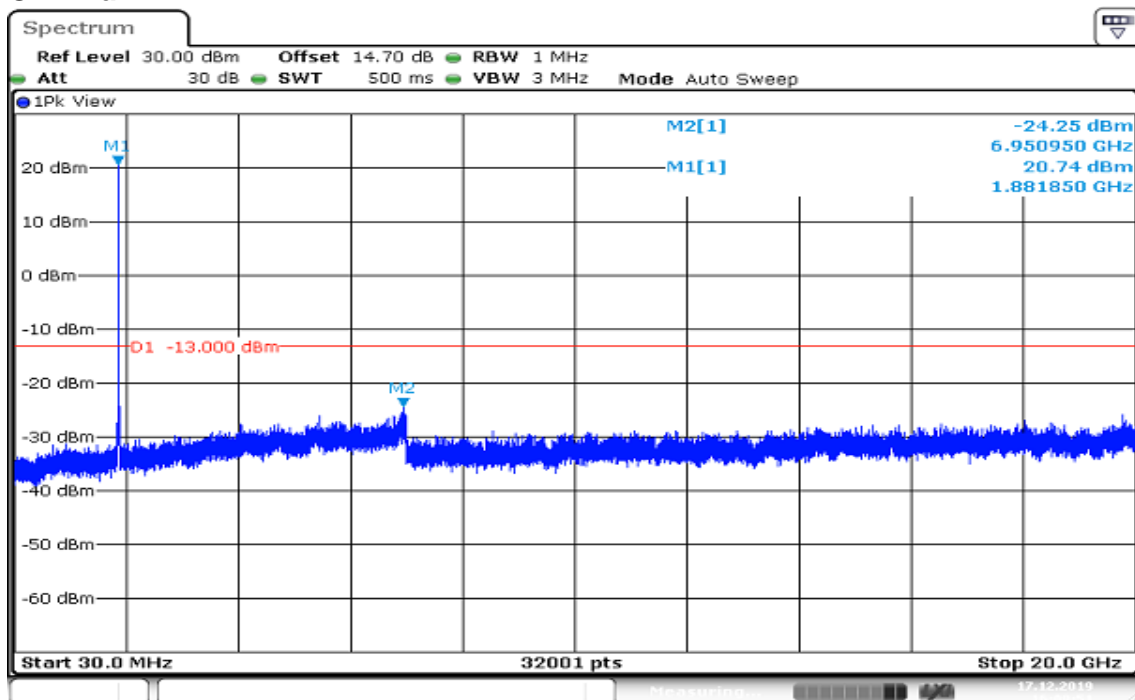
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 10MHz / 16QAM / 1RB

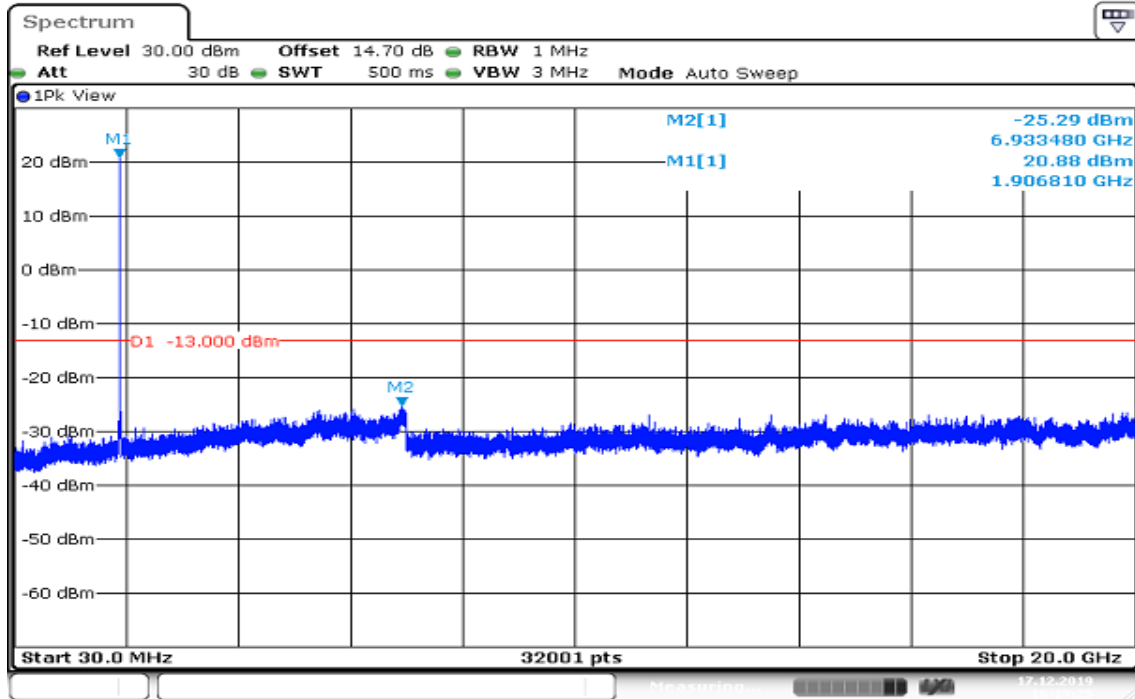
CH Low



CH Mid



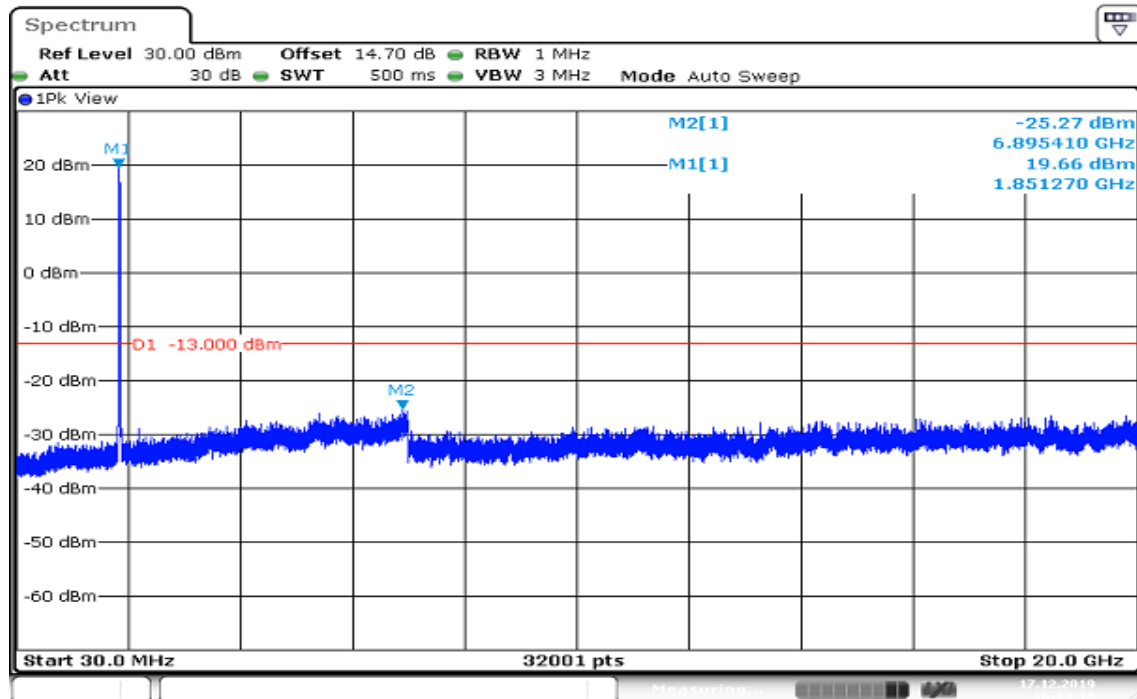
CH High



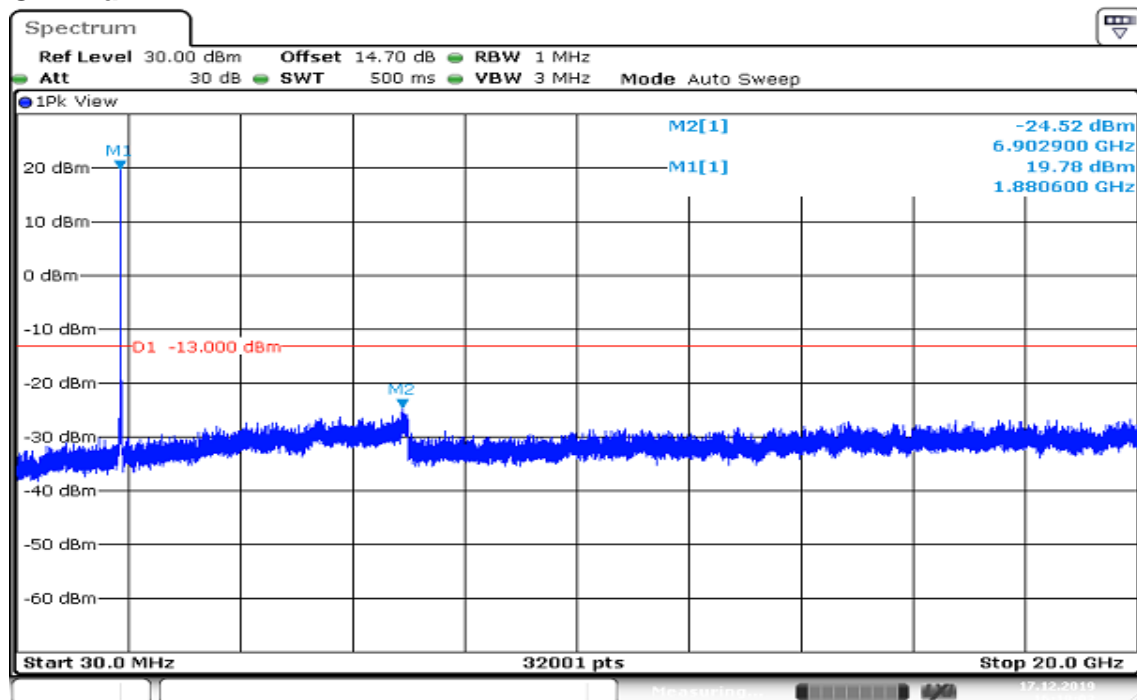
Date: 17.DEC.2019 16:13:26

Report No.: T191120D05-RP5

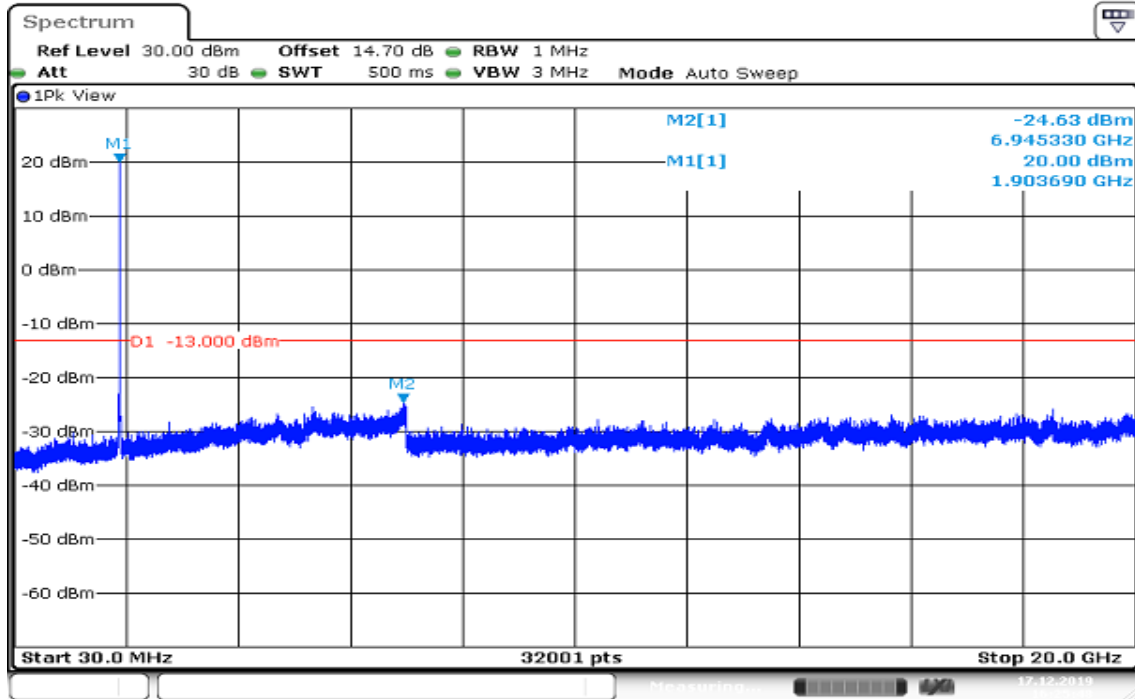
CHANNEL BANDWIDTH: 15MHz / 16QAM / 1RB CH Low



CH Mid



CH High

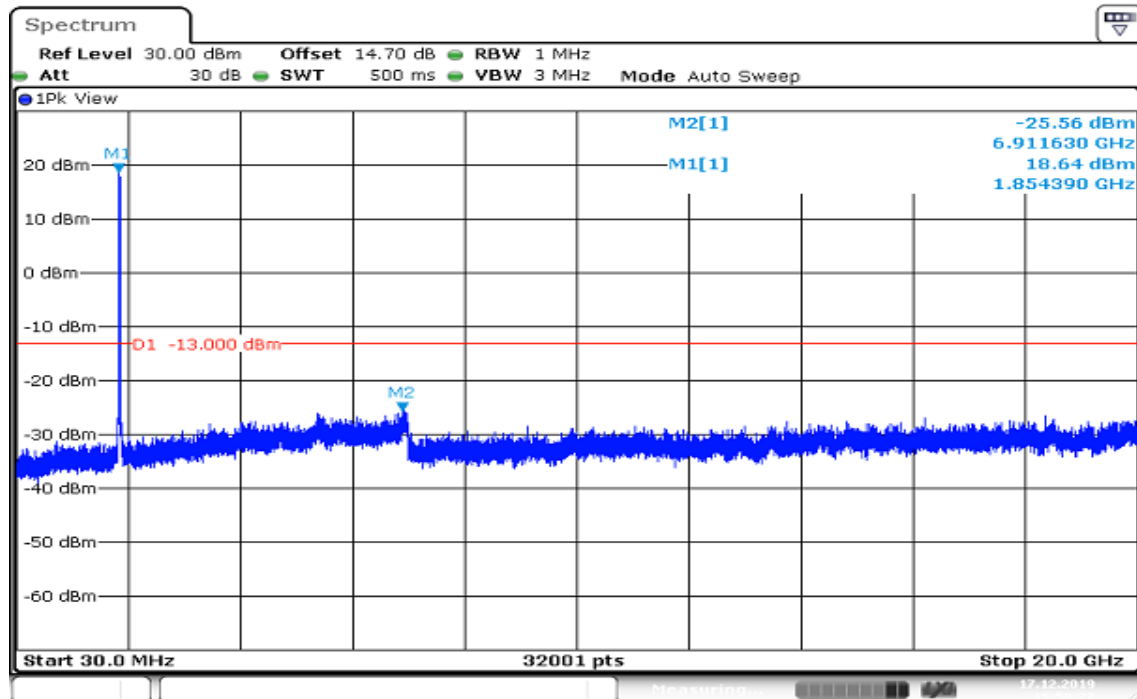


Date: 17.DEC.2019 16:25:49

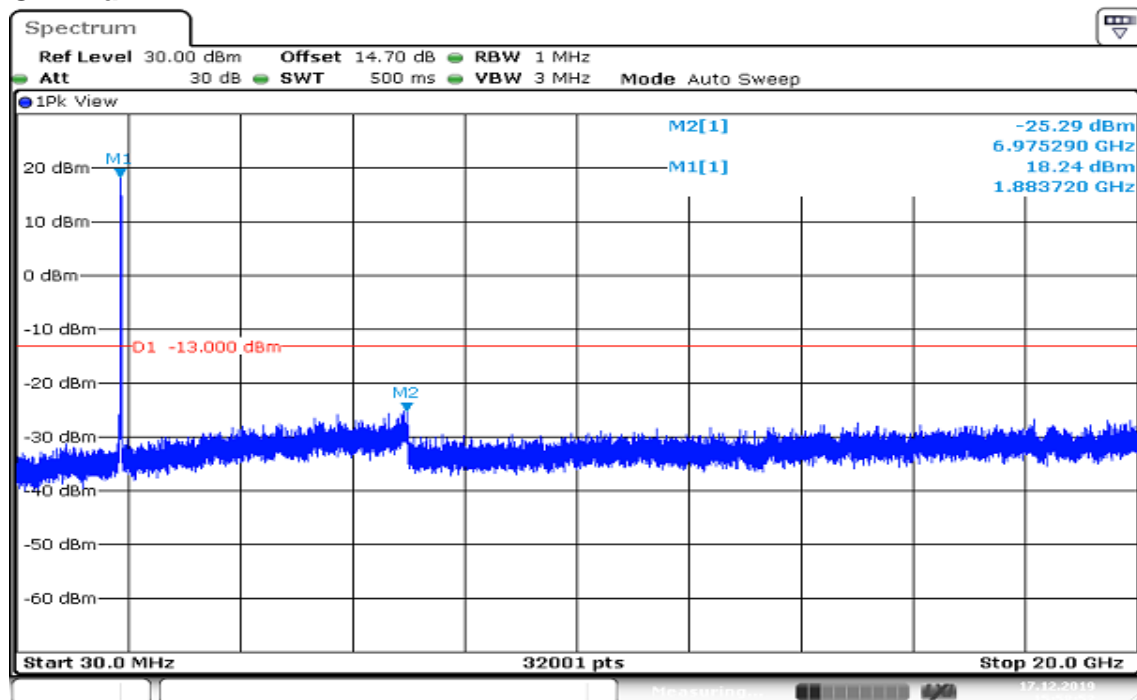
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 20MHz / 16QAM / 1RB

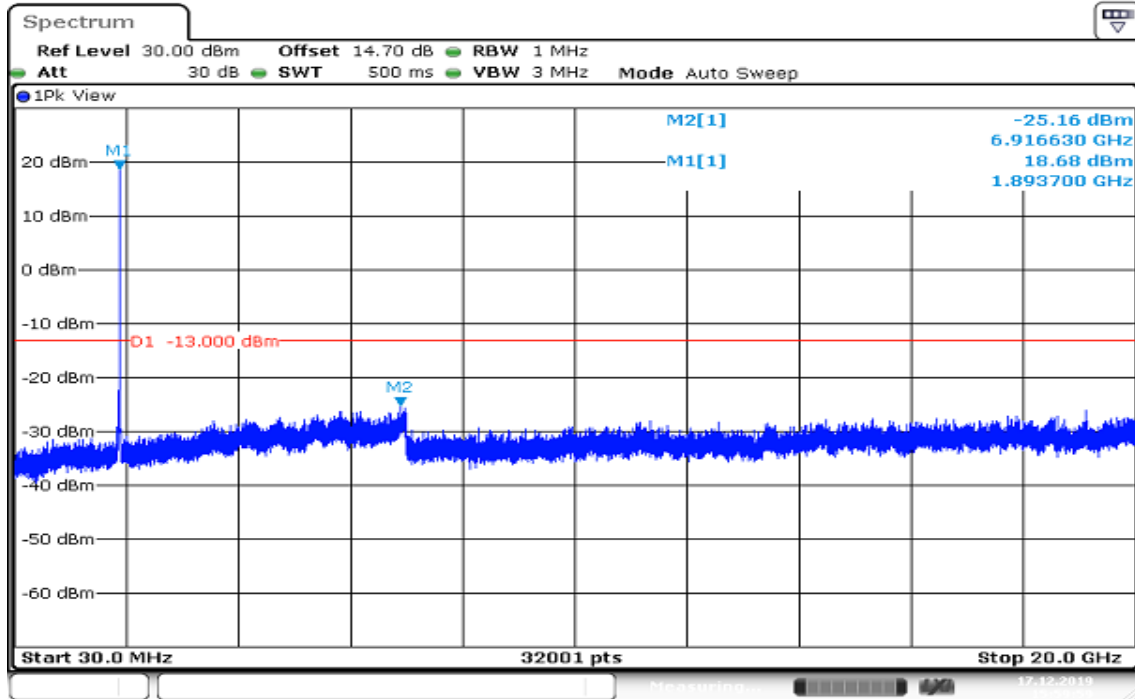
CH Low



CH Mid



CH High



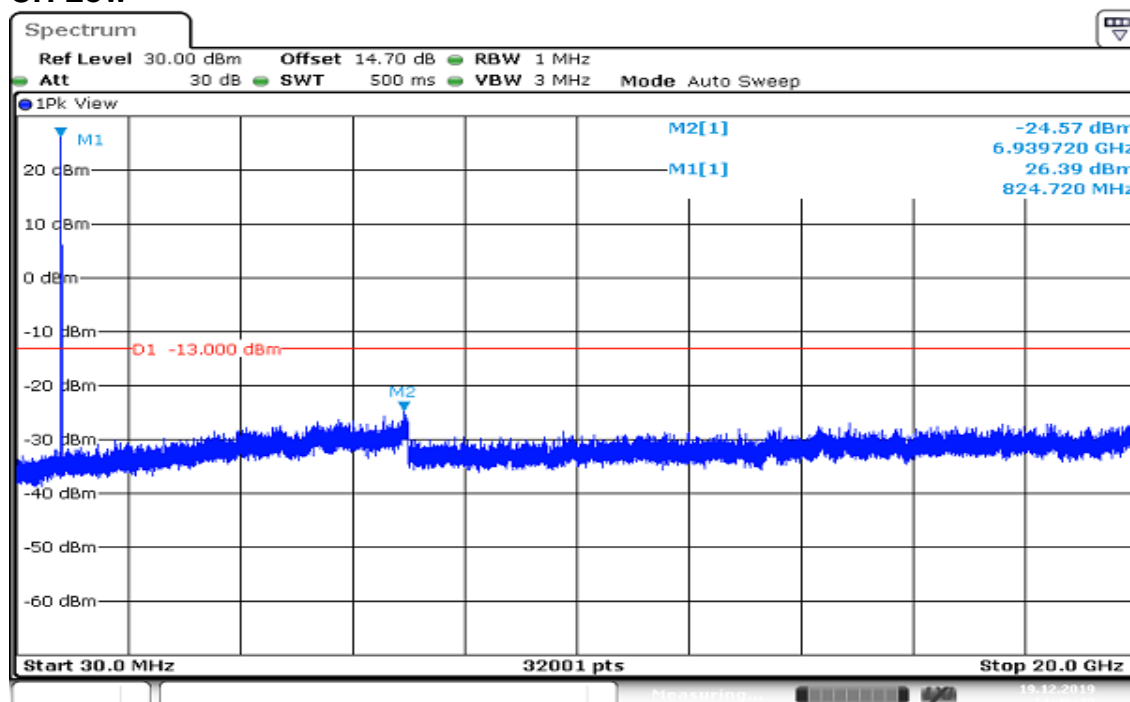
Date: 17.DEC.2019 16:00:00

Report No.: T191120D05-RP5

LTE Band 5

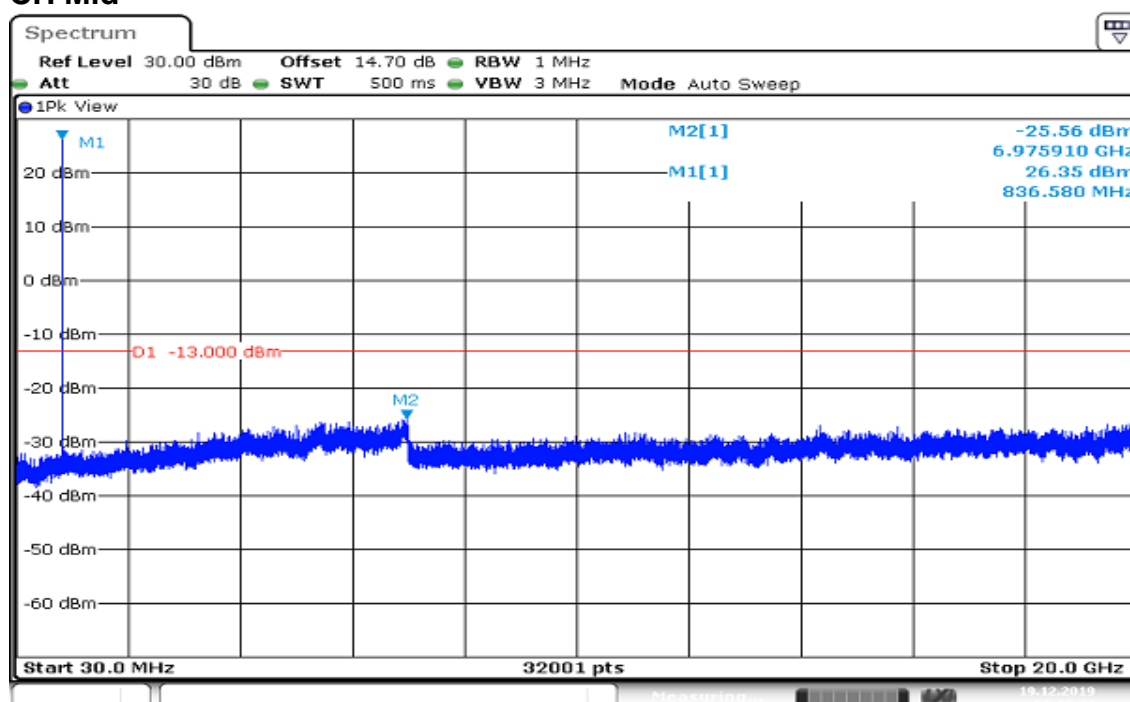
CHANNEL BANDWIDTH: 1.4MHz / QPSK / 1RB

CH Low



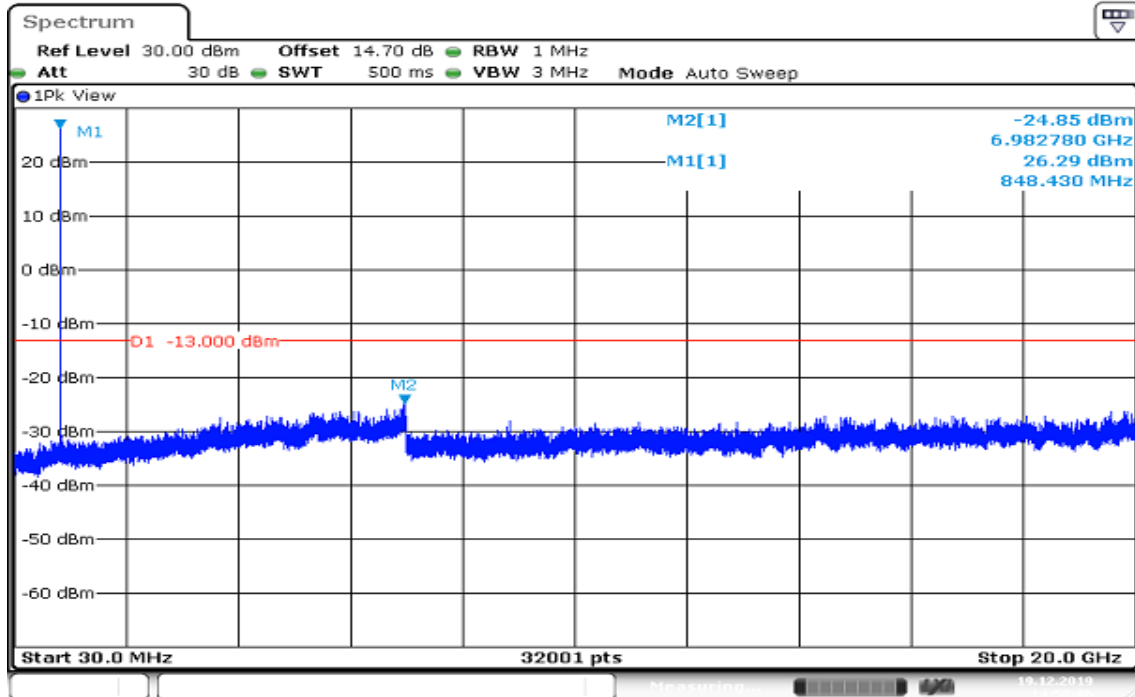
Date: 19.DEC.2019 14:46:50

CH Mid



Date: 19.DEC.2019 14:47:38

CH High

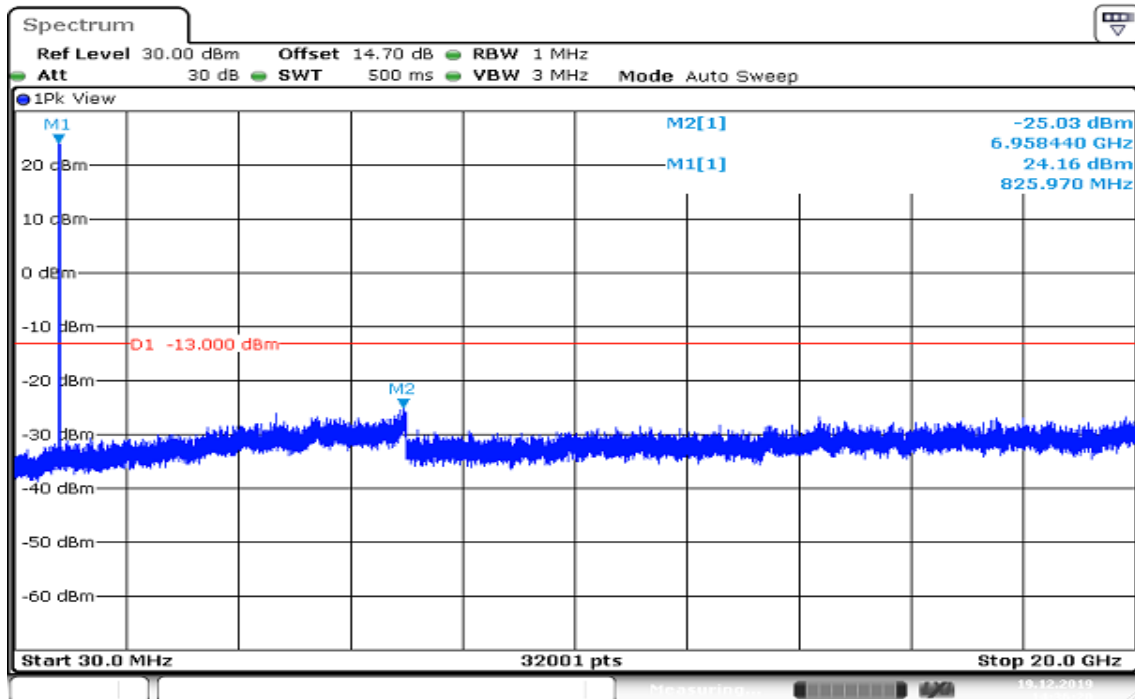


Date: 19.DEC.2019 14:50:07

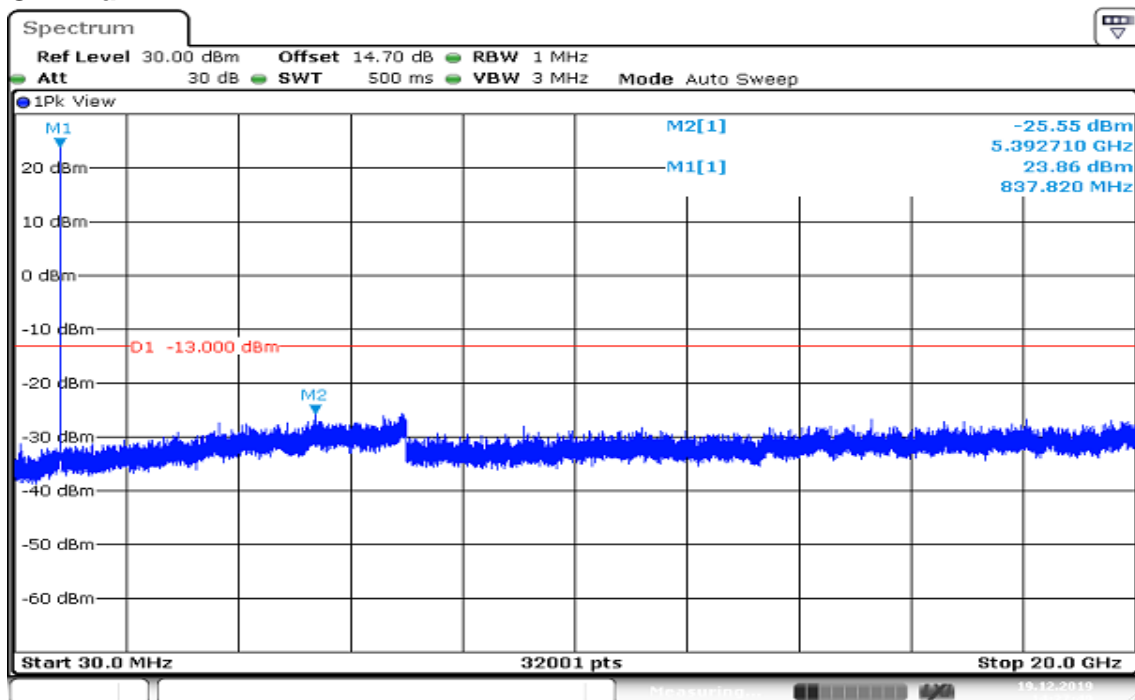
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 3MHz / QPSK / 1RB

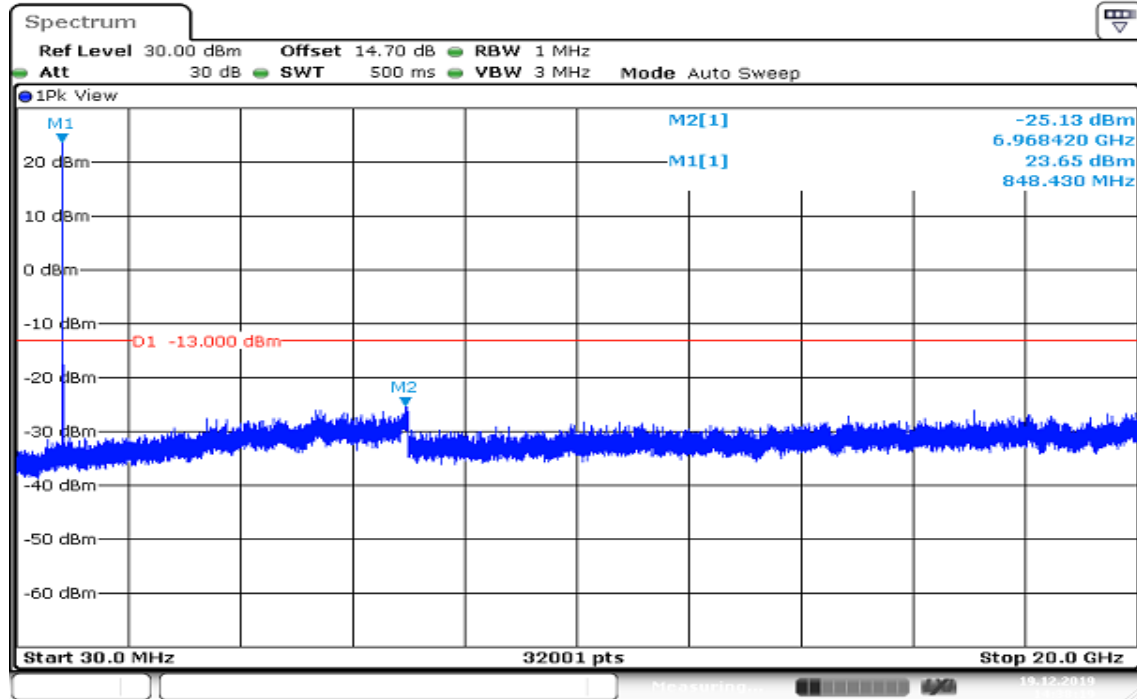
CH Low



CH Mid



CH High

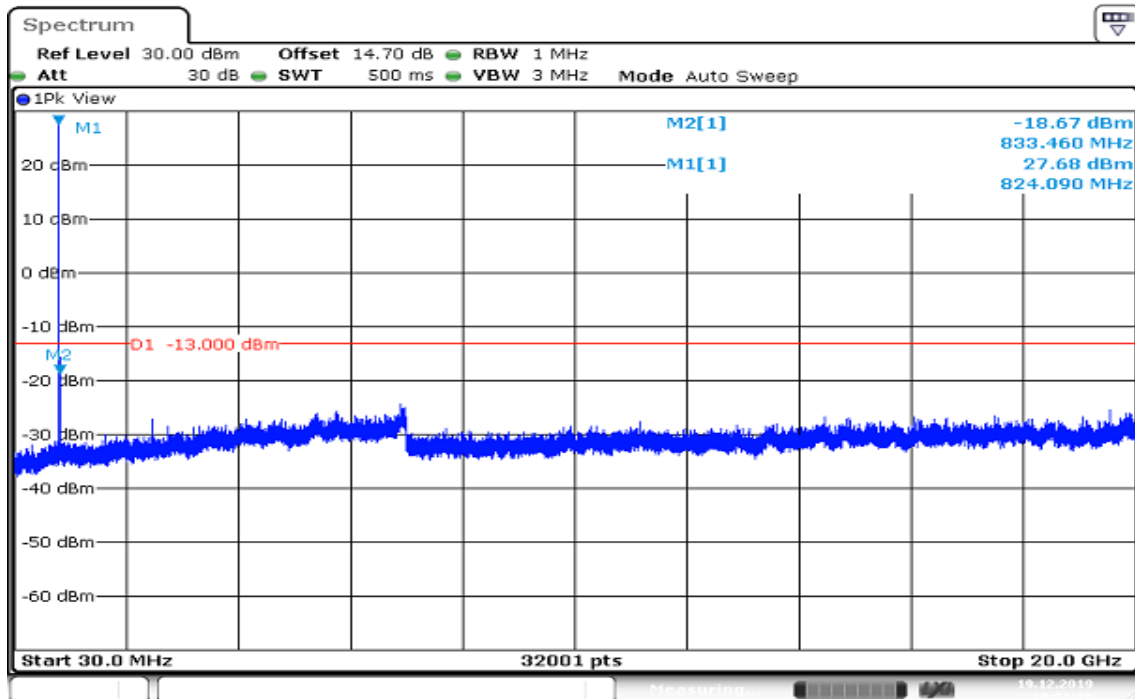


Date: 19.DEC.2019 14:38:19

Report No.: T191120D05-RP5

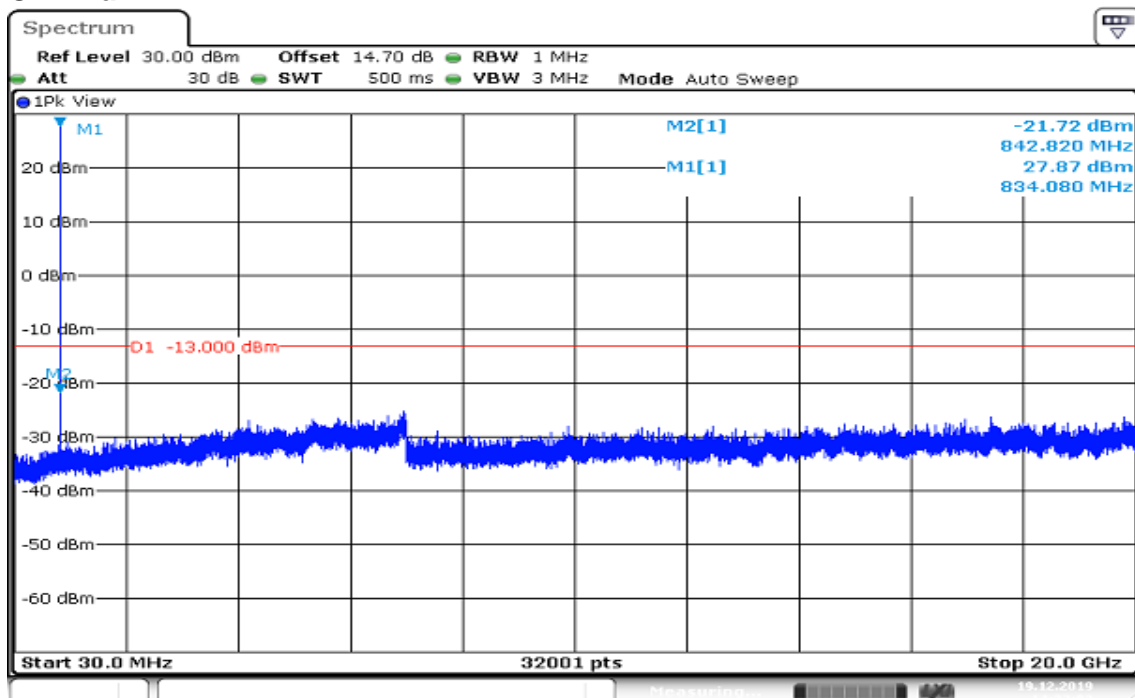
CHANNEL BANDWIDTH: 5MHz / QPSK / 1RB

CH Low



Date: 19.DEC.2019 14:31:27

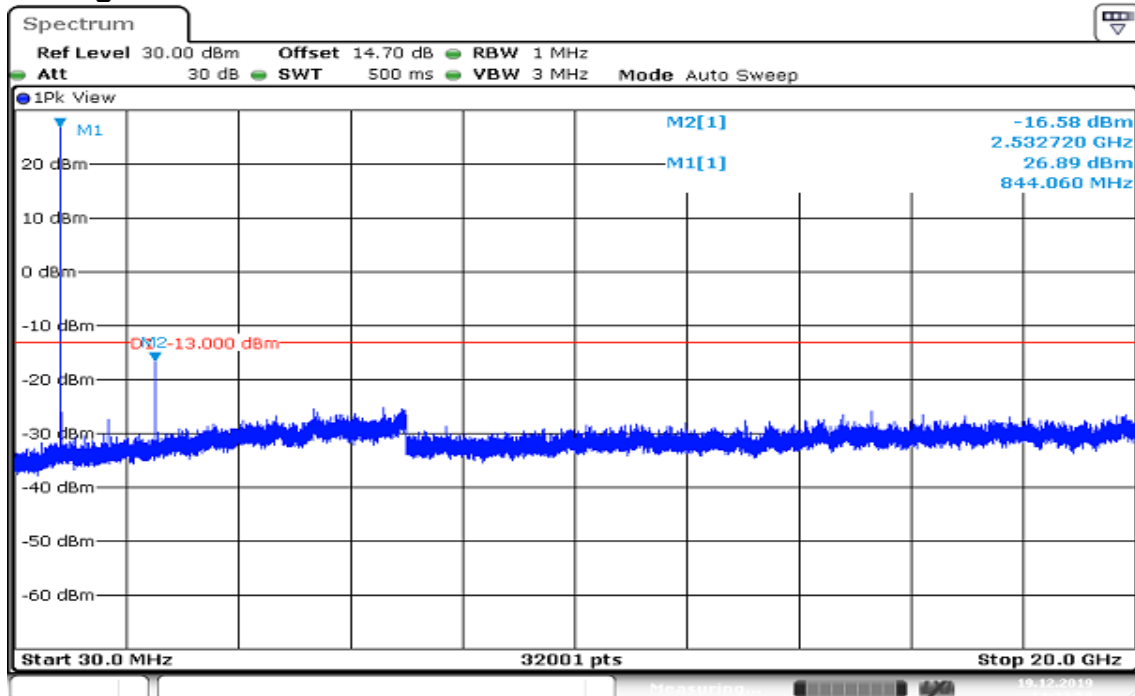
CH Mid



Date: 19.DEC.2019 14:32:02

Report No.: T191120D05-RP5

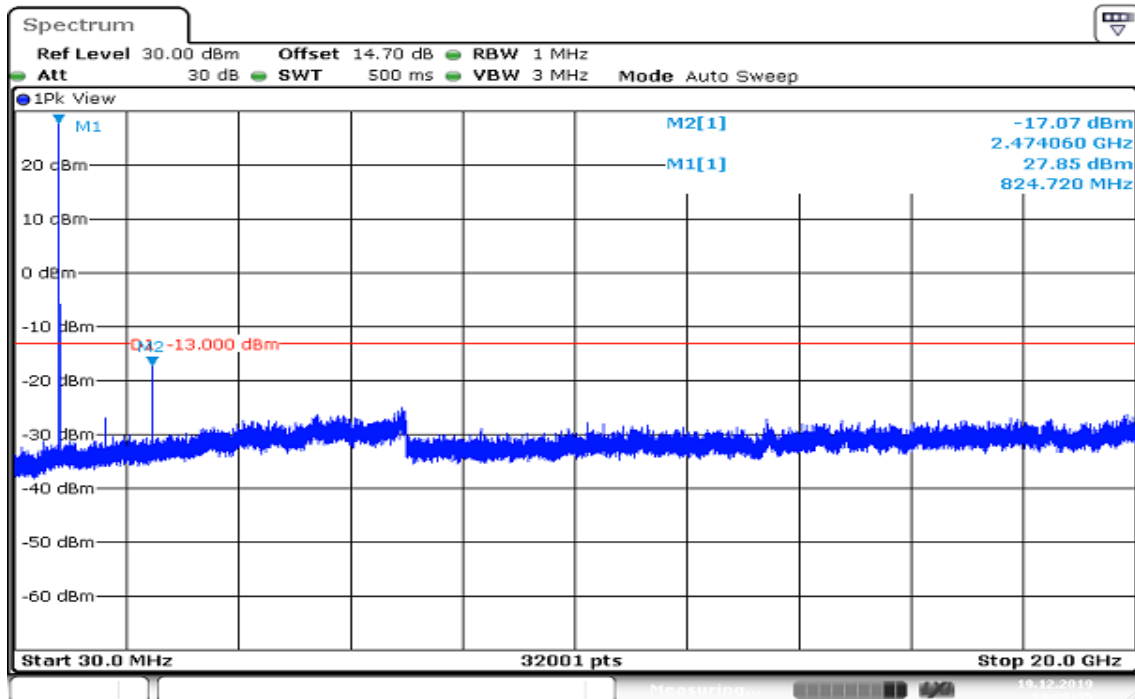
CH High



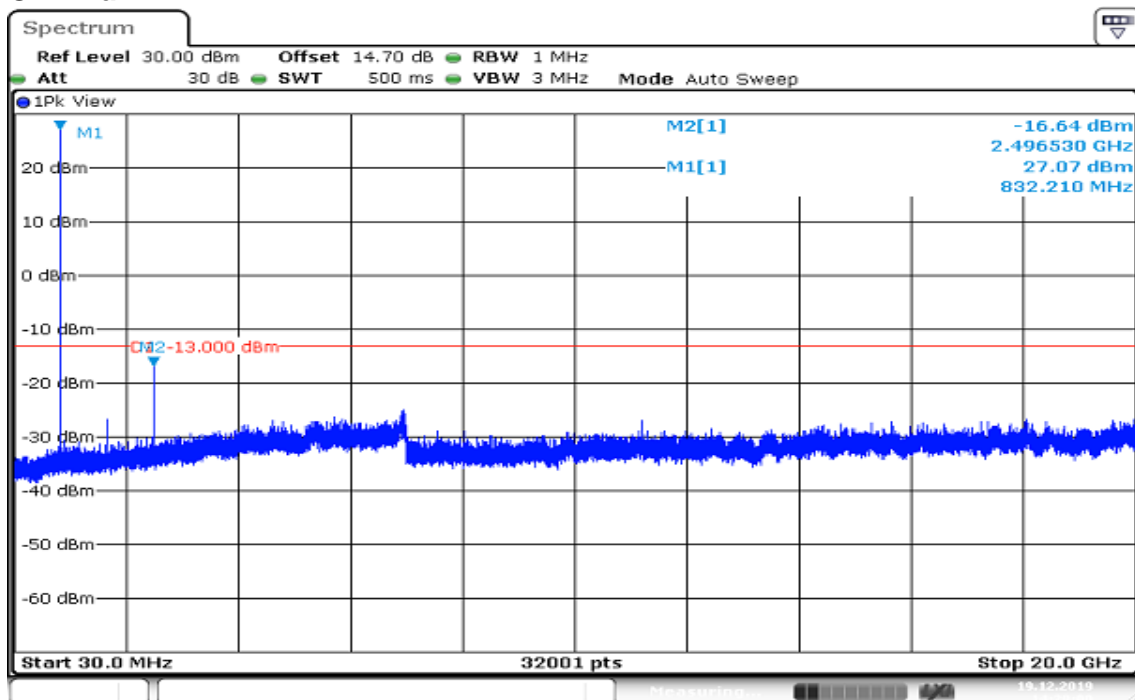
Date: 19.DEC.2019 14:33:59

Report No.: T191120D05-RP5

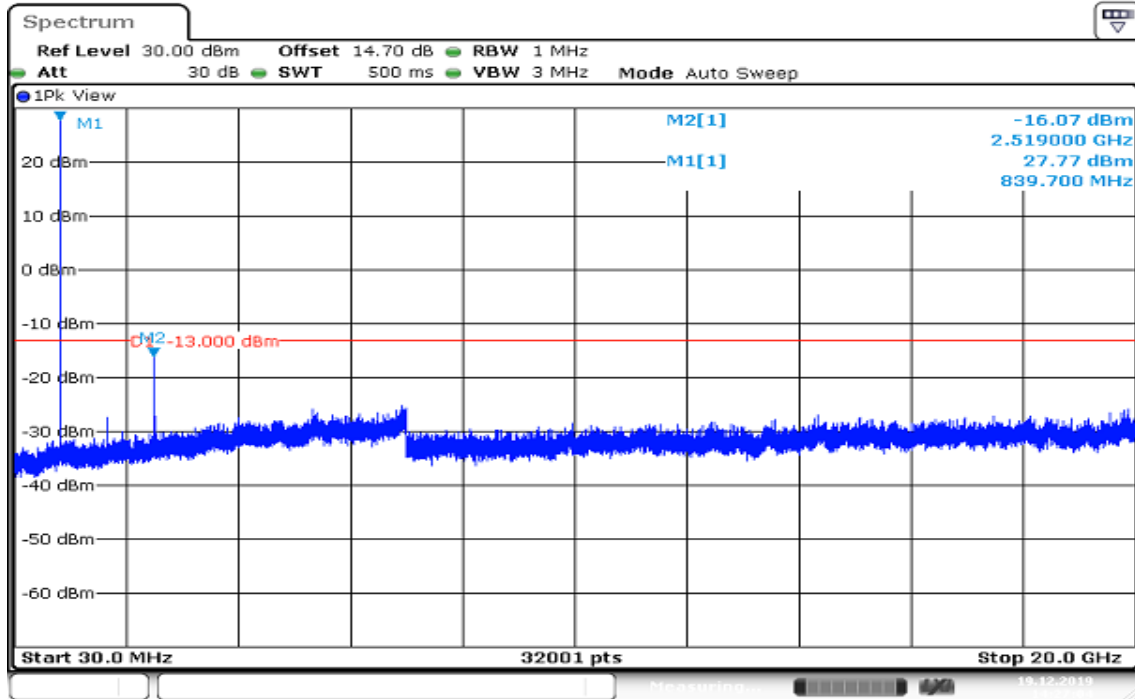
CHANNEL BANDWIDTH: 10MHz / QPSK / 1RB CH Low



CH Mid



CH High

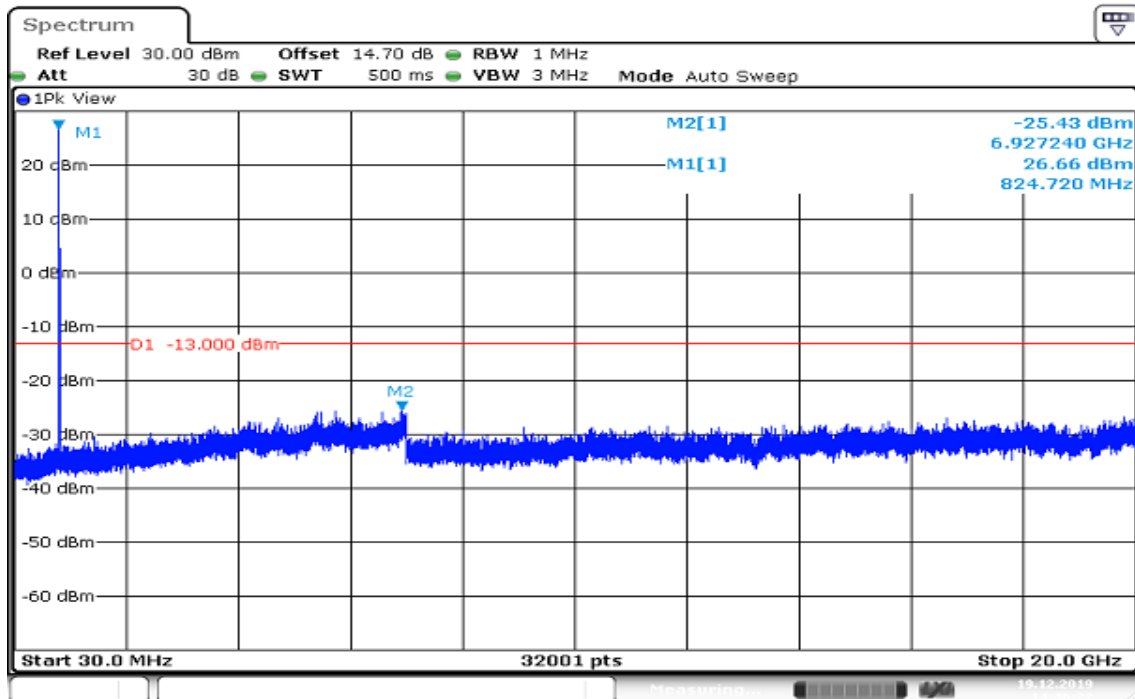


Date: 19.DEC.2019 14:27:05

Report No.: T191120D05-RP5

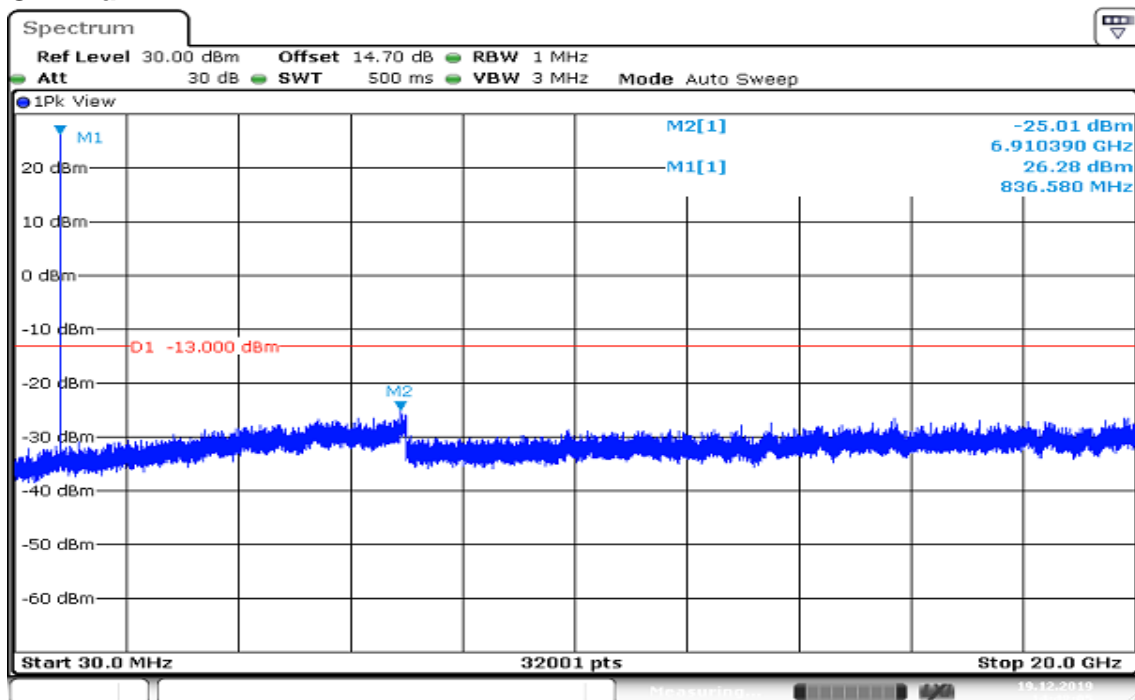
CHANNEL BANDWIDTH: 1.4MHz / 16QAM / 1RB

CH Low



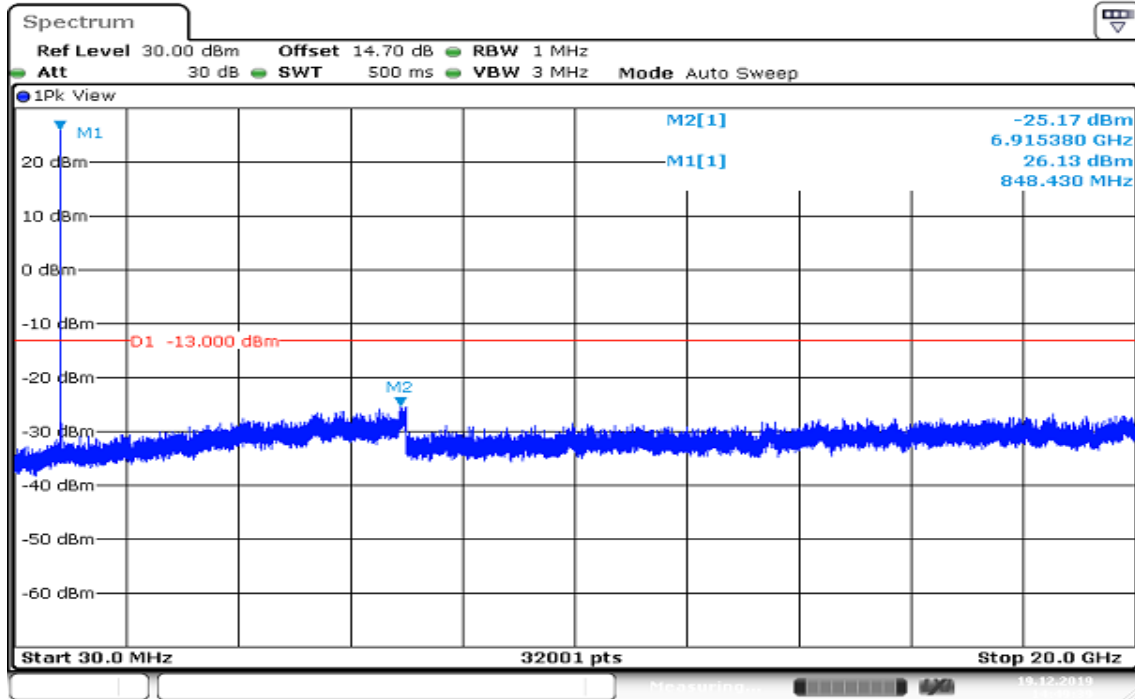
Date: 19.DEC.2019 14:46:23

CH Mid



Date: 19.DEC.2019 14:48:06

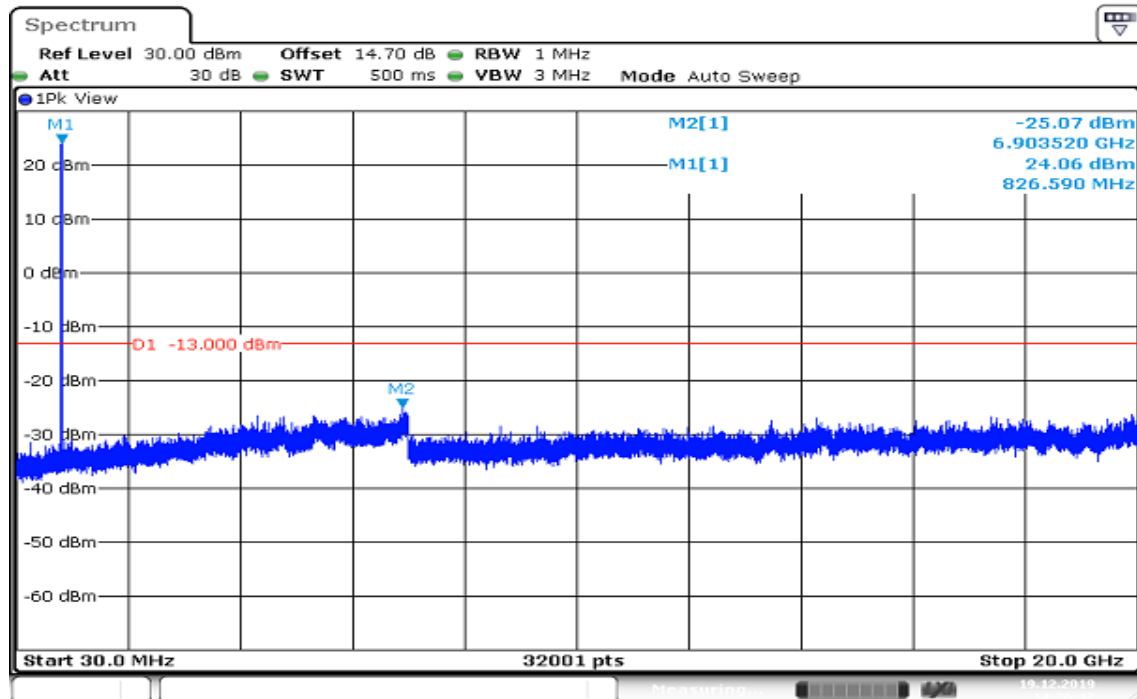
CH High



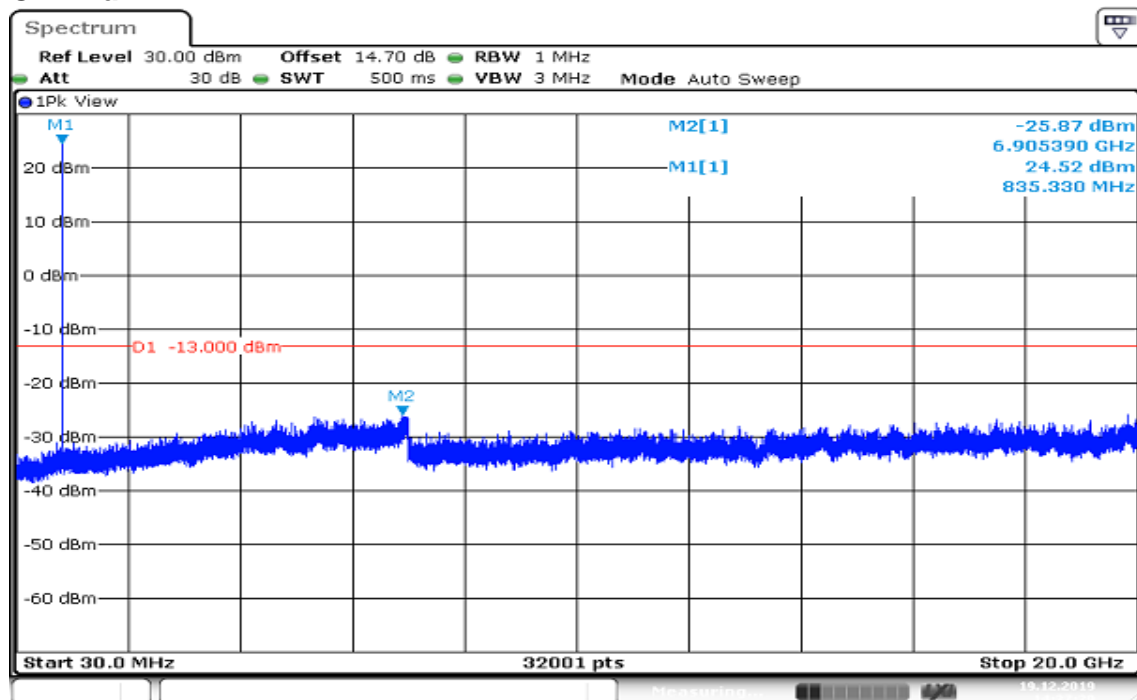
Date: 19.DEC.2019 14:49:40

Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 3MHz / 16QAM / 1RB CH Low

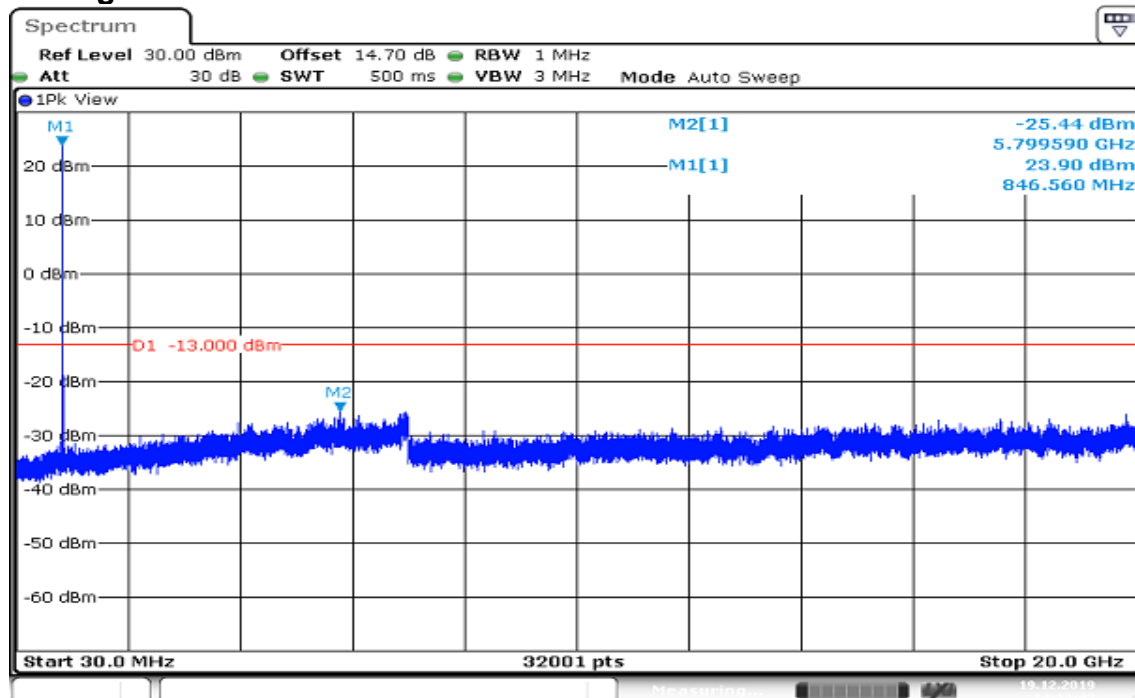


CH Mid



Report No.: T191120D05-RP5

CH High

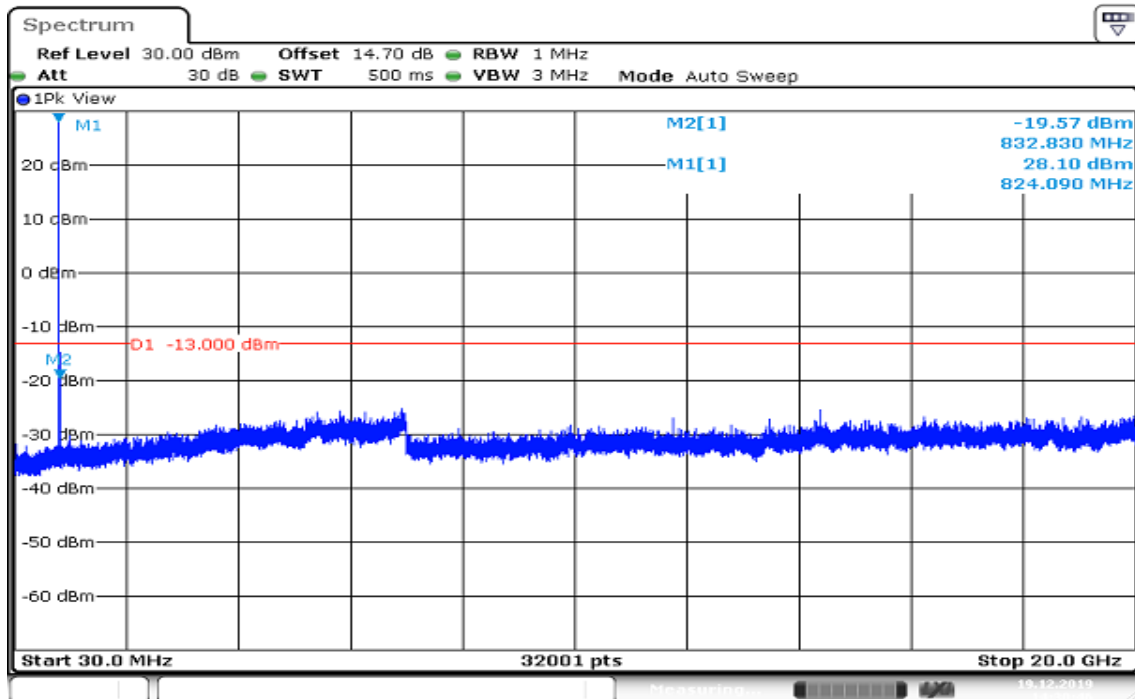


Date: 19.DEC.2019 14:38:44

Report No.: T191120D05-RP5

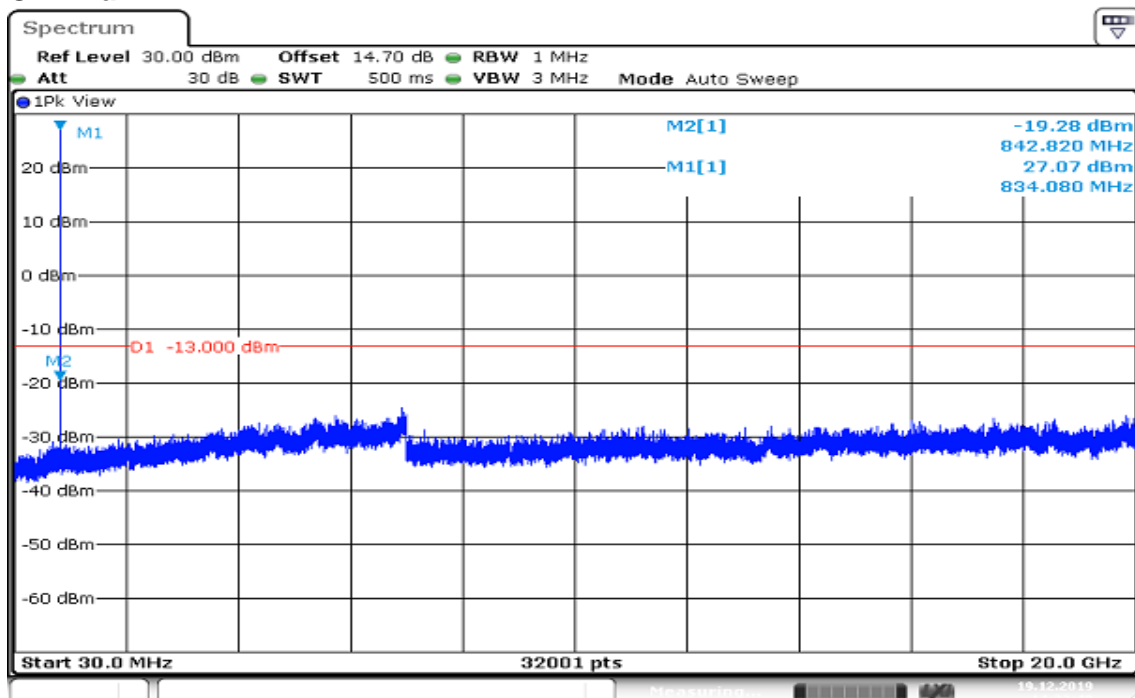
CHANNEL BANDWIDTH: 5MHz / 16QAM / 1RB

CH Low



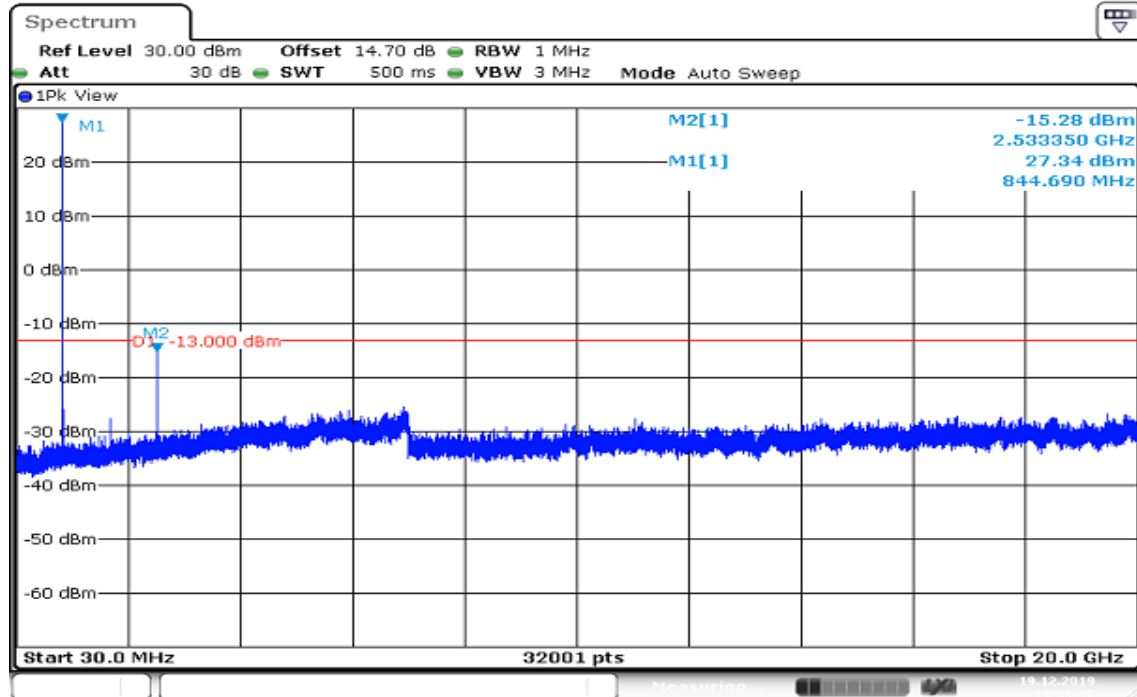
Date: 19.DEC.2019 14:30:47

CH Mid



Date: 19.DEC.2019 14:32:48

CH High

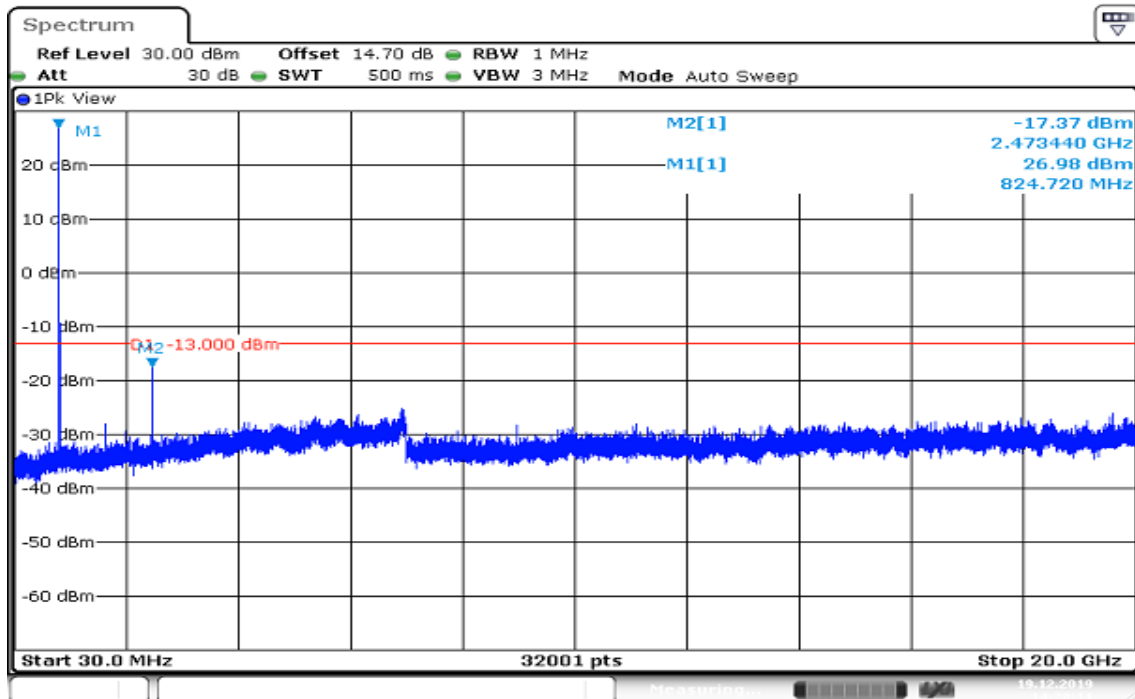


Date: 19.DEC.2019 14:33:36

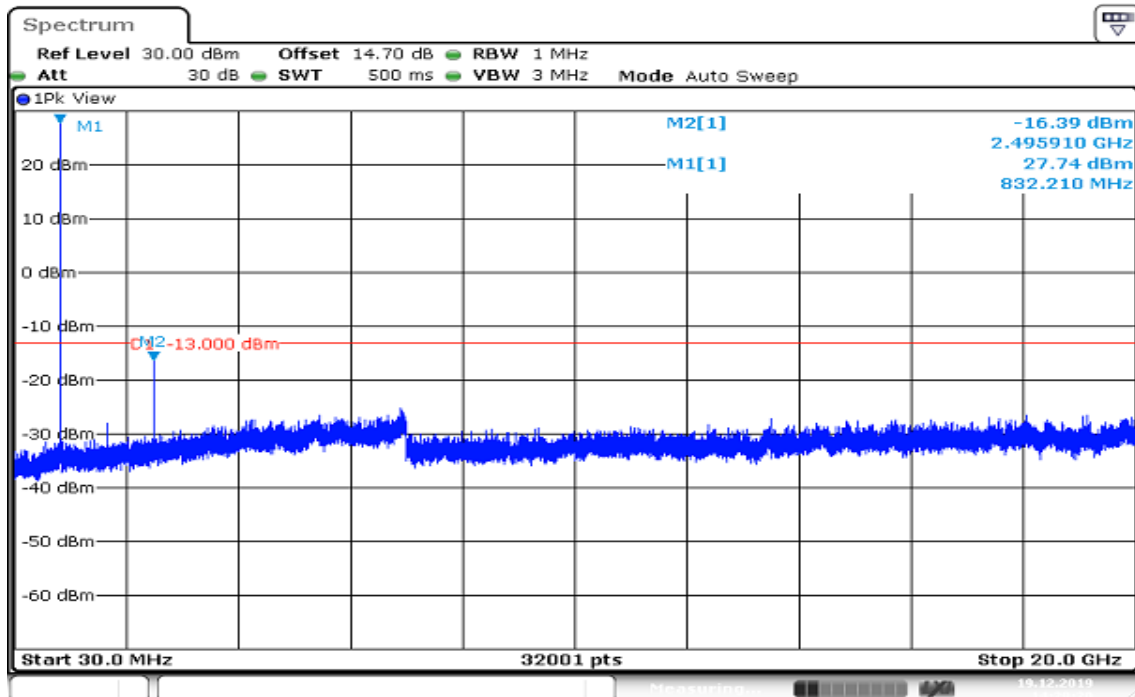
Report No.: T191120D05-RP5

CHANNEL BANDWIDTH: 10MHz / 16QAM / 1RB

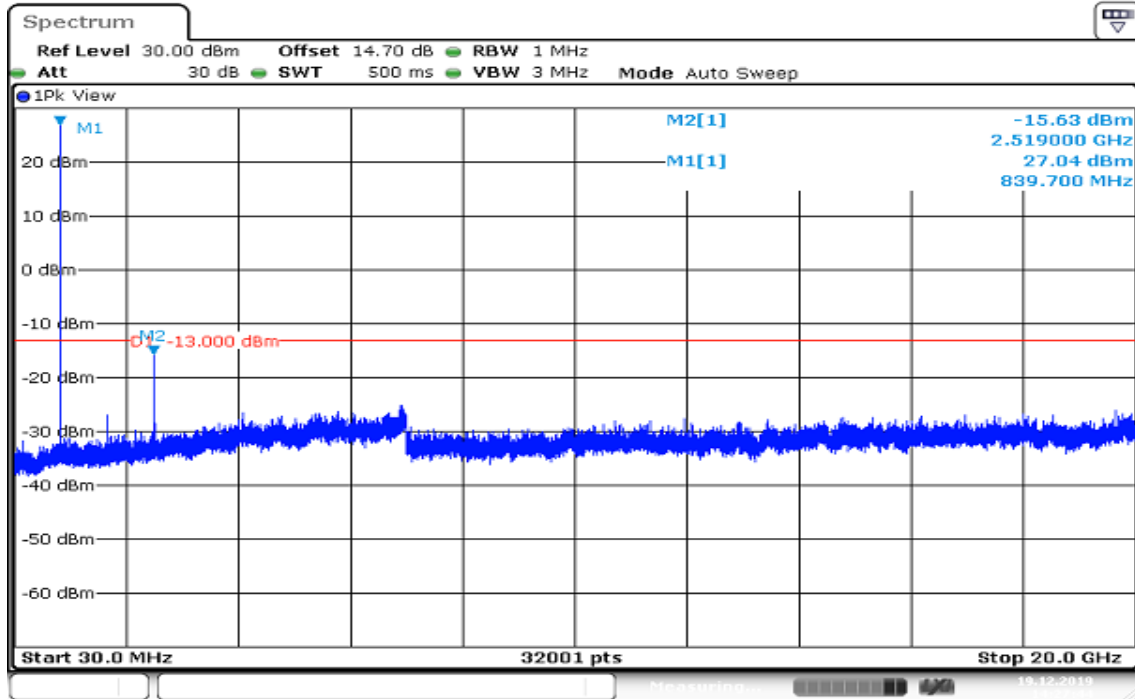
CH Low



CH Mid



CH High



Date: 19.DEC.2019 14:27:45

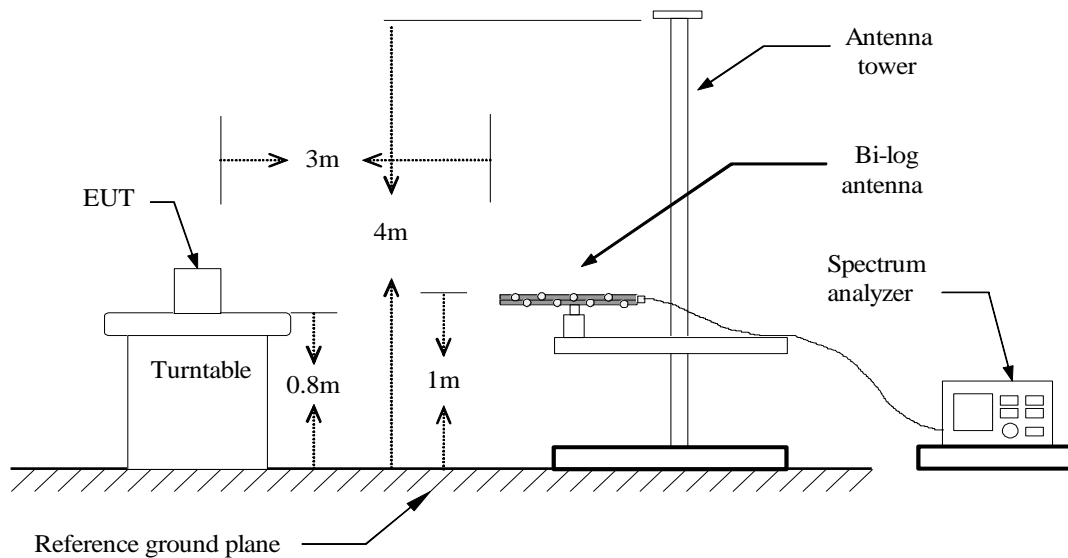
8.7 SPURIOUS RADIATION MEASUREMENT

LIMIT

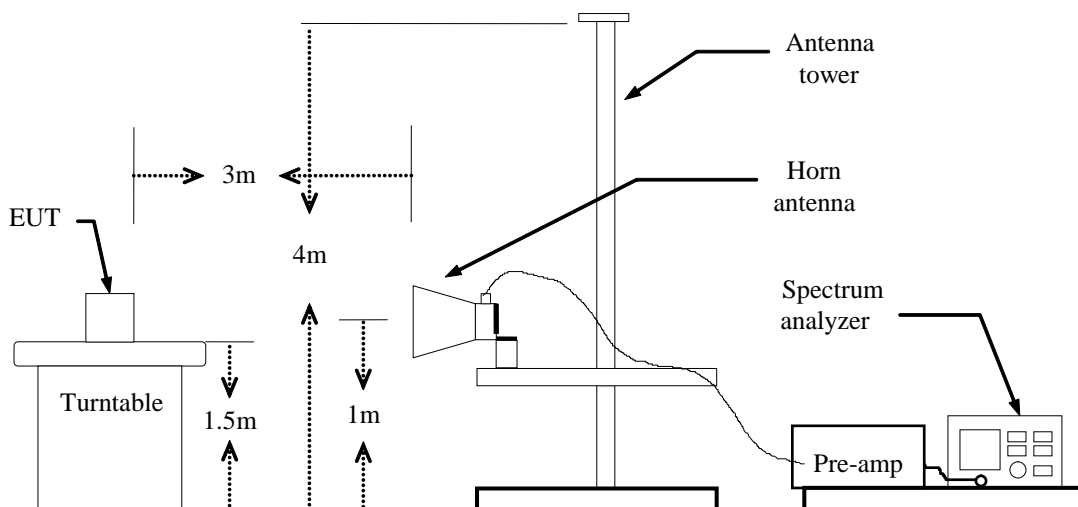
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

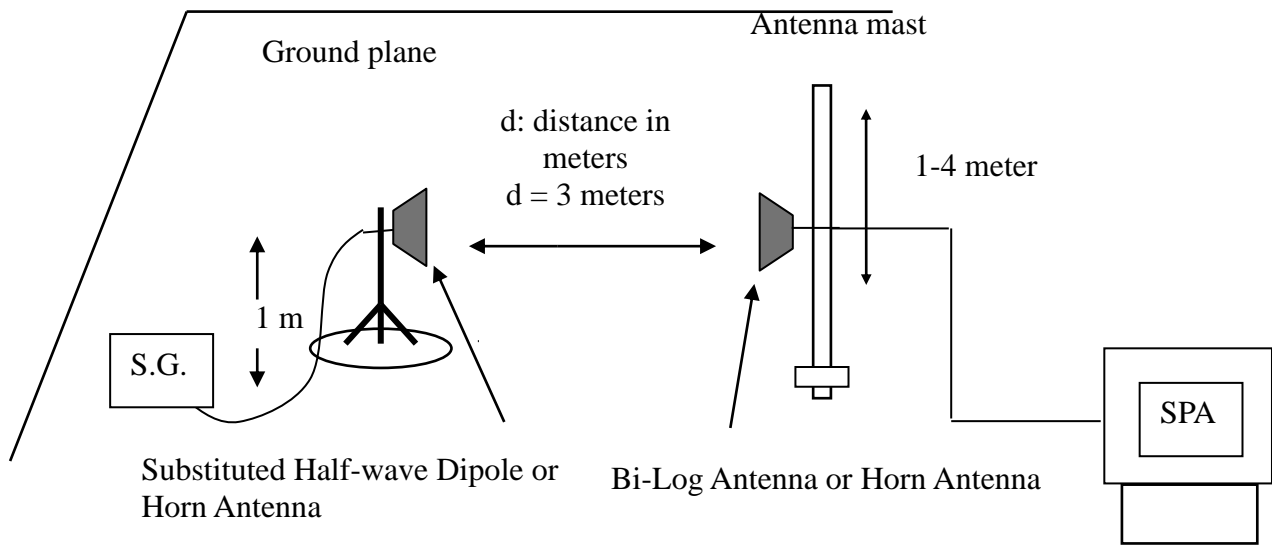
Test Configuration

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 : 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.
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

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

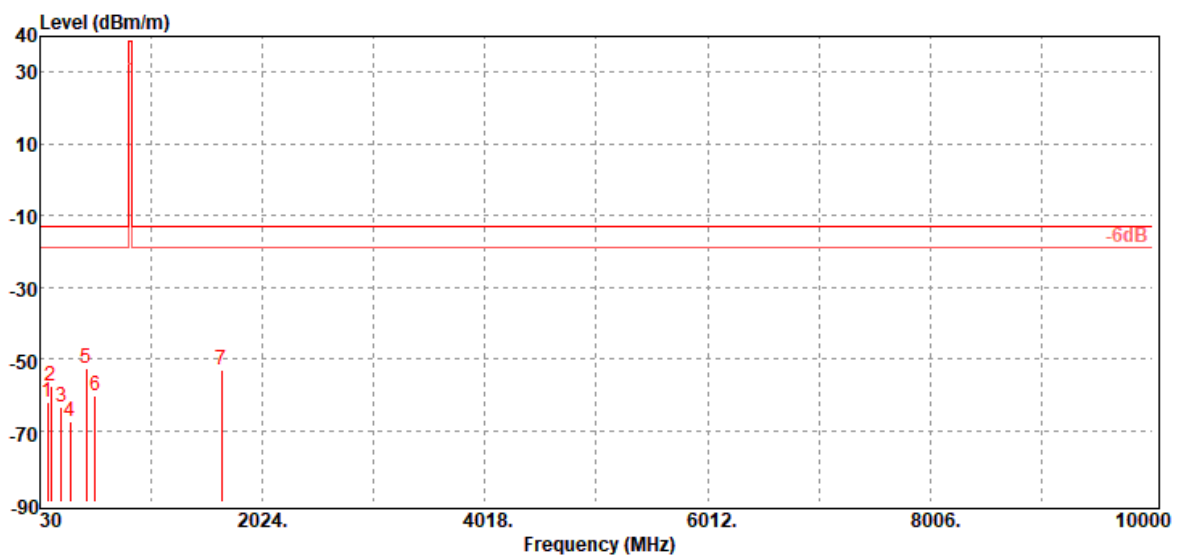
$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)}$$

TEST RESULTS

Refer to the attached tabular data sheets.

Remark: Above 1GHz

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

Test Results**LTE Band 5 / BW: 10MHz / QPSK / RB =1, RB Offset = 0****Operation Mode:** Tx / Low CH**Test Date:** January 8, 2020**Temperature:** 18.6°C**Tested by:** Jerry Chang**Humidity:** 59% RH**Polarity:** Ver.

Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
97.90	-61.94	-53.24	-7.89	-0.81	-13.00	-48.94	V
129.91	-57.58	-46.46	-10.19	-0.93	-13.00	-44.58	V
219.15	-63.26	-60.02	-2.02	-1.22	-13.00	-50.26	V
299.66	-67.69	-64.25	-2.01	-1.43	-13.00	-54.69	V
447.10	-52.70	-48.85	-2.10	-1.75	-13.00	-39.70	V
526.64	-60.54	-57.32	-1.30	-1.92	-13.00	-47.54	V
1658.00	-53.26	-59.45	9.75	-3.56	-13.00	-40.26	V



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Operation Mode: Tx / Low CH

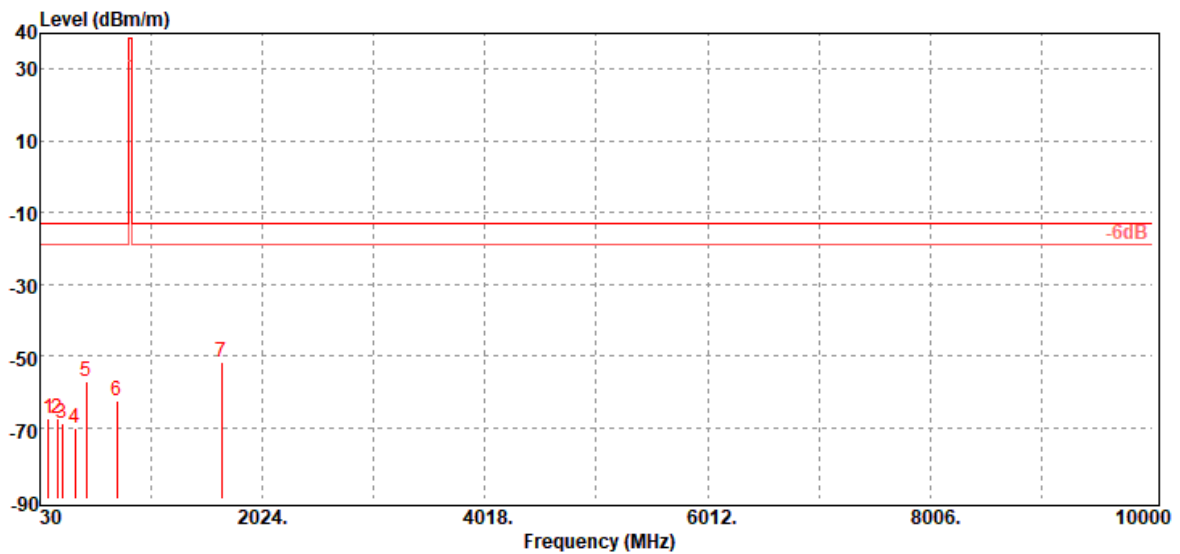
Test Date: January 8, 2020

Temperature: 18.6°C

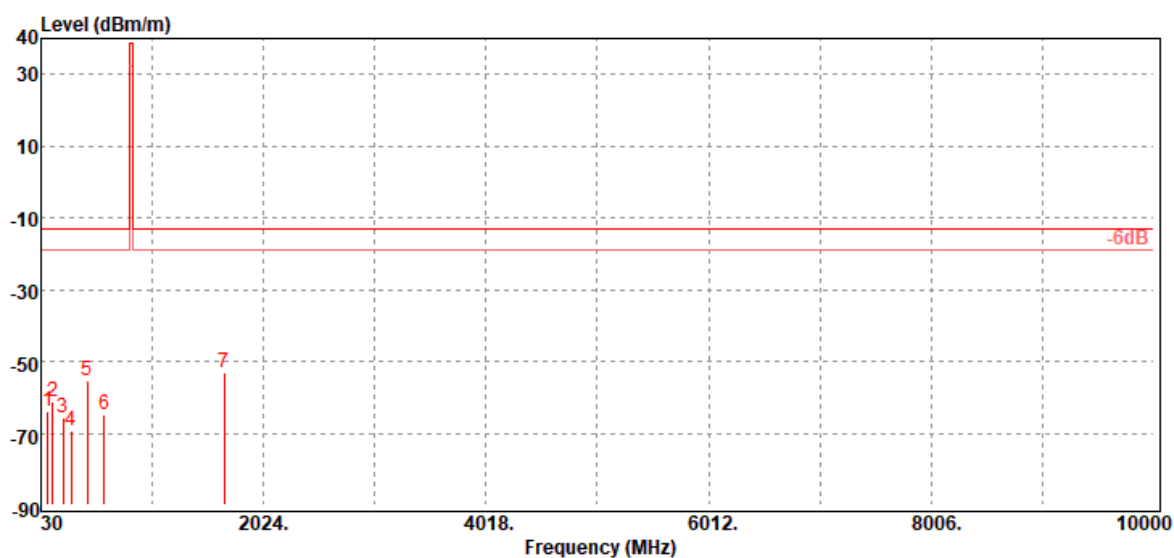
Tested by: Jerry Chang

Humidity: 59% RH

Polarity: Hor.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
105.66	-67.57	-57.36	-9.37	-0.84	-13.00	-54.57	H
188.11	-67.41	-62.38	-3.90	-1.13	-13.00	-54.41	H
225.94	-68.99	-65.82	-1.94	-1.23	-13.00	-55.99	H
342.34	-70.12	-67.09	-1.50	-1.53	-13.00	-57.12	H
444.19	-57.25	-53.4	-2.10	-1.75	-13.00	-44.25	H
721.61	-62.42	-58.76	-1.40	-2.26	-13.00	-49.42	H
1658.00	-51.86	-58.05	9.75	-3.56	-13.00	-38.86	H

Operation Mode: Tx / Mid CH**Test Date:** January 8, 2020**Temperature:** 18.6°C**Tested by:** Jerry Chang**Humidity:** 59% RH**Polarity:** Ver.

Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
88.20	-63.97	-56.04	-7.16	-0.77	-13.00	-50.97	V
134.76	-61.20	-50.9	-9.35	-0.95	-13.00	-48.20	V
225.94	-65.64	-62.47	-1.94	-1.23	-13.00	-52.64	V
299.66	-69.22	-65.78	-2.01	-1.43	-13.00	-56.22	V
447.10	-55.36	-51.51	-2.10	-1.75	-13.00	-42.36	V
597.45	-64.82	-61.91	-0.85	-2.06	-13.00	-51.82	V
1673.00	-53.05	-59.31	9.84	-3.58	-13.00	-40.05	V



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Operation Mode: Tx / Mid CH

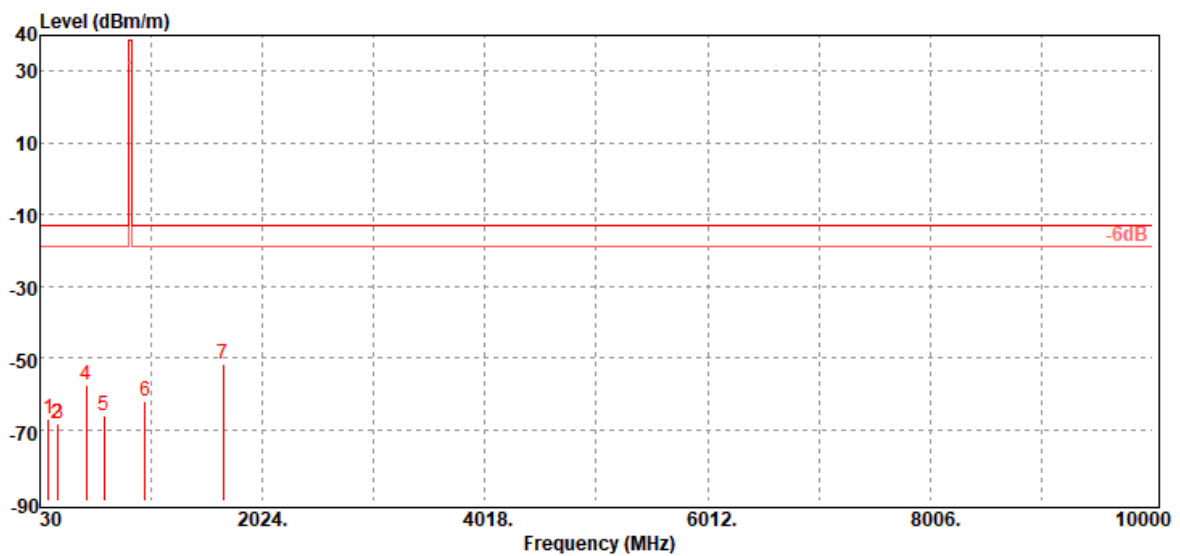
Test Date: January 8, 2020

Temperature: 18.6°C

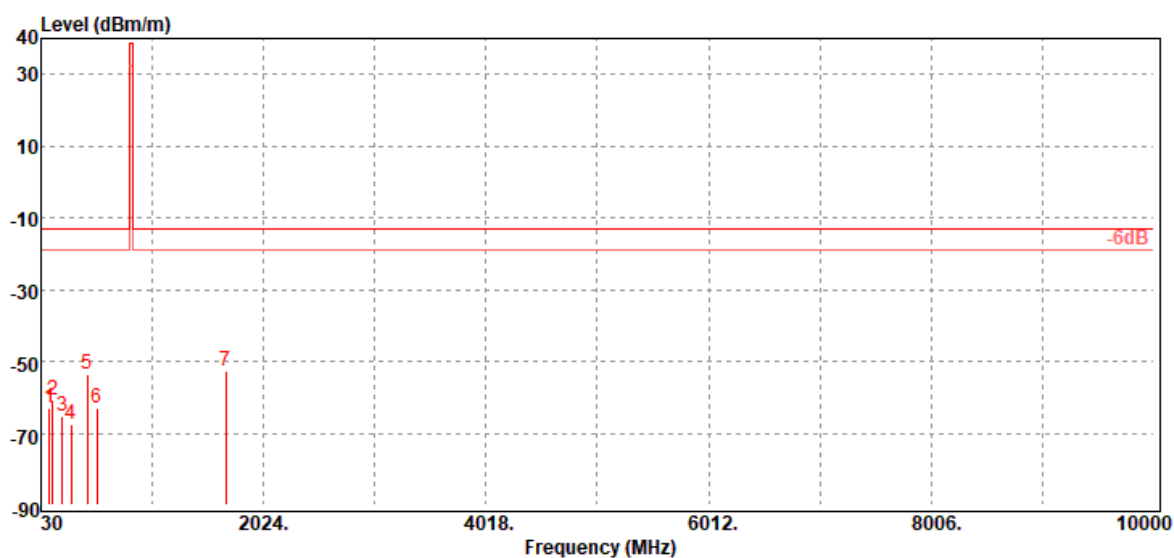
Tested by: Jerry Chang

Humidity: 59% RH

Polarity: Hor.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
105.66	-66.96	-56.75	-9.37	-0.84	-13.00	-53.96	H
182.29	-68.46	-63.15	-4.20	-1.11	-13.00	-55.46	H
191.99	-68.56	-63.32	-4.10	-1.14	-13.00	-55.56	H
447.10	-57.39	-53.54	-2.10	-1.75	-13.00	-44.39	H
604.24	-65.99	-62.94	-0.98	-2.07	-13.00	-52.99	H
973.81	-62.27	-58.25	-1.38	-2.64	-13.00	-49.27	H
1673.00	-51.94	-58.2	9.84	-3.58	-13.00	-38.94	H

Operation Mode: Tx / High CH**Test Date:** January 8, 2020**Temperature:** 18.6°C**Tested by:** Jerry Chang**Humidity:** 59% RH**Polarity:** Ver.

Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
105.66	-63.12	-52.91	-9.37	-0.84	-13.00	-50.12	V
133.79	-60.86	-50.39	-9.52	-0.95	-13.00	-47.86	V
219.15	-65.16	-61.92	-2.02	-1.22	-13.00	-52.16	V
299.66	-67.61	-64.17	-2.01	-1.43	-13.00	-54.61	V
444.19	-53.48	-49.63	-2.10	-1.75	-13.00	-40.48	V
529.55	-62.85	-59.63	-1.30	-1.92	-13.00	-49.85	V
1688.00	-52.45	-58.78	9.93	-3.60	-13.00	-39.45	V



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Operation Mode: Tx / High CH

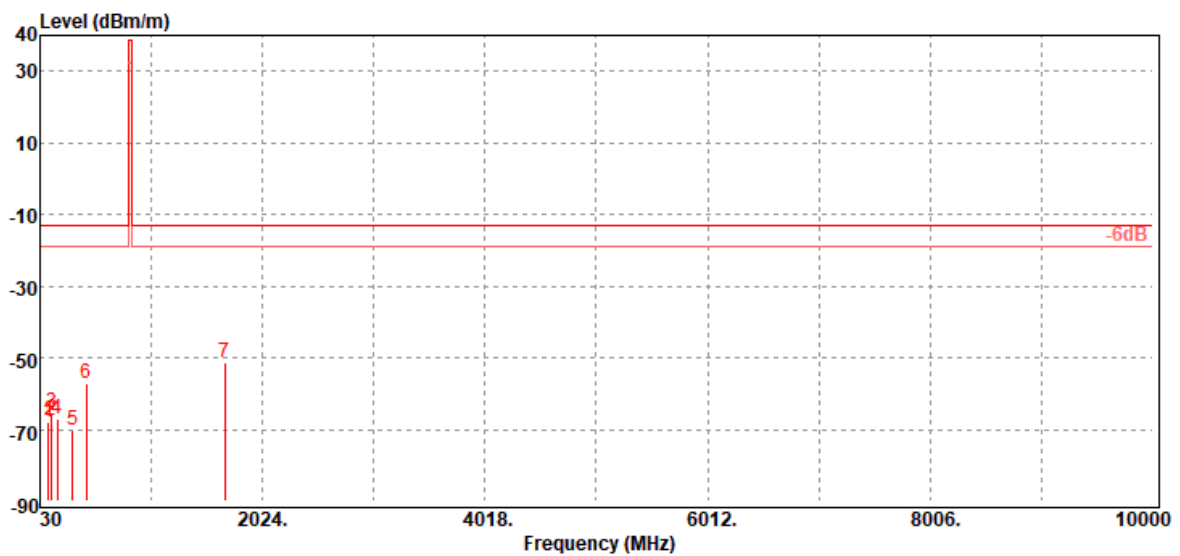
Test Date: January 8, 2020

Temperature: 18.6°C

Tested by: Jerry Chang

Humidity: 59% RH

Polarity: Hor.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
105.66	-67.79	-57.58	-9.37	-0.84	-13.00	-54.79	H
124.09	-67.63	-56.22	-10.50	-0.91	-13.00	-54.63	H
134.76	-65.42	-55.12	-9.35	-0.95	-13.00	-52.42	H
185.20	-67.00	-61.8	-4.08	-1.12	-13.00	-54.00	H
321.00	-70.12	-66.84	-1.80	-1.48	-13.00	-57.12	H
444.19	-57.01	-53.16	-2.10	-1.75	-13.00	-44.01	H
1688.00	-51.11	-57.44	9.93	-3.60	-13.00	-38.11	H

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

Operation Mode: Tx / Low CH

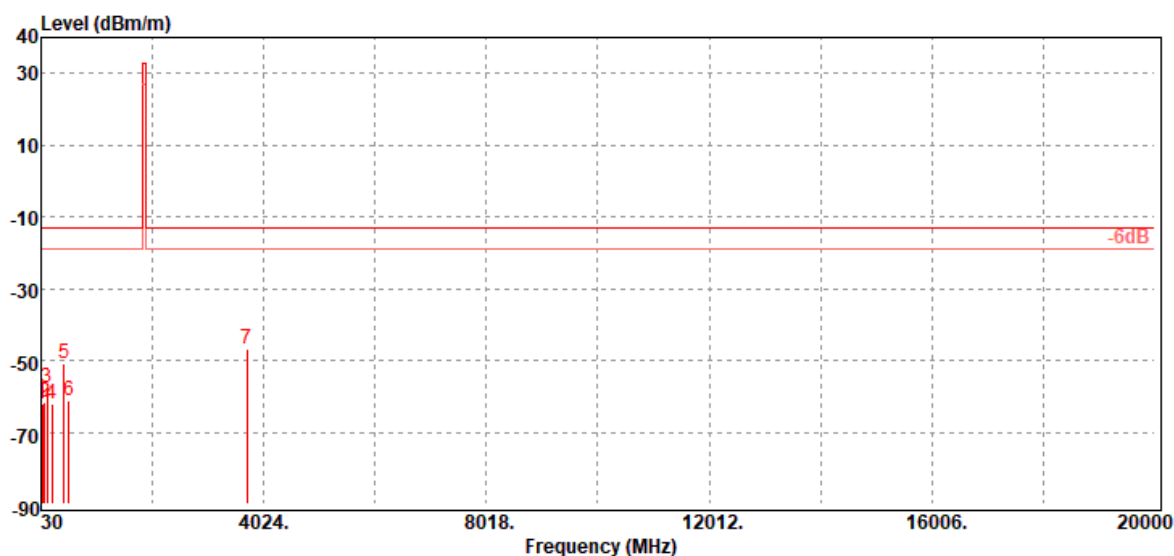
Test Date: January 8, 2020

Temperature: 18.6°C

Tested by: Jerry Chang

Humidity: 59% RH

Polarity: Ver.



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)	Antenna Polarization (V/H)
52.31	-62.09	-50.46	-11.04	-0.59	-13.00	-49.09	V
97.90	-61.79	-53.09	-7.89	-0.81	-13.00	-48.79	V
131.85	-57.74	-46.99	-9.81	-0.94	-13.00	-44.74	V
226.91	-62.11	-58.89	-1.98	-1.24	-13.00	-49.11	V
447.10	-51.01	-47.16	-2.10	-1.75	-13.00	-38.01	V
526.64	-61.23	-58.01	-1.30	-1.92	-13.00	-48.23	V
3720.00	-46.83	-53.56	12.46	-5.73	-13.00	-33.83	V



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Operation Mode: Tx / Low CH

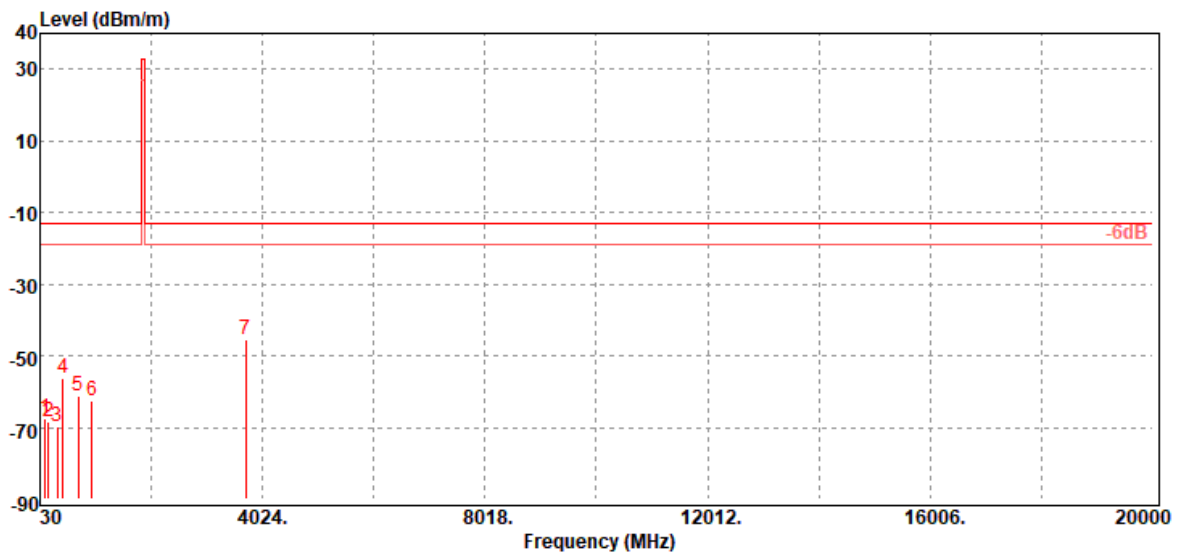
Test Date: January 8, 2020

Temperature: 18.6°C

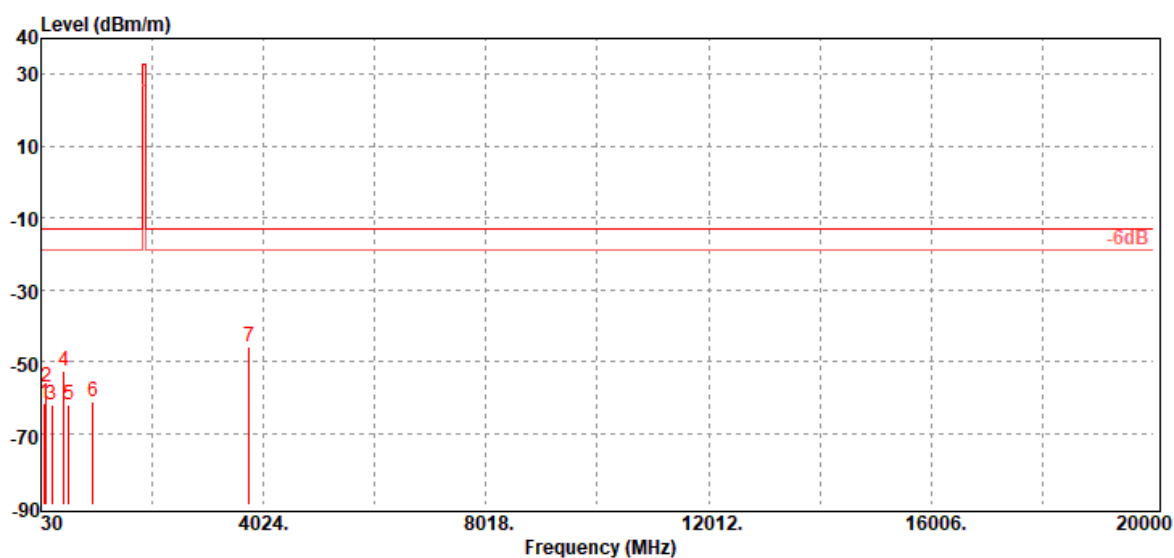
Tested by: Jerry Chang

Humidity: 59% RH

Polarity: Hor.



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)	Antenna Polarization (V/H)
124.09	-67.30	-55.89	-10.50	-0.91	-13.00	-54.30	H
178.41	-68.30	-62.64	-4.56	-1.10	-13.00	-55.30	H
343.31	-69.88	-66.85	-1.50	-1.53	-13.00	-56.88	H
444.19	-56.33	-52.48	-2.10	-1.75	-13.00	-43.33	H
713.85	-61.43	-57.78	-1.40	-2.25	-13.00	-48.43	H
956.35	-62.44	-58.59	-1.23	-2.62	-13.00	-49.44	H
3720.00	-45.64	-52.37	12.46	-5.73	-13.00	-32.64	H

Operation Mode: Tx / Mid CH**Test Date:** January 8, 2020**Temperature:** 18.6°C**Tested by:** Jerry Chang**Humidity:** 59% RH**Polarity:** Ver.

Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)	Antenna Polarization (V/H)
88.20	-61.46	-53.53	-7.16	-0.77	-13.00	-48.46	V
129.91	-57.33	-46.21	-10.19	-0.93	-13.00	-44.33	V
225.94	-62.15	-58.98	-1.94	-1.23	-13.00	-49.15	V
444.19	-52.87	-49.02	-2.10	-1.75	-13.00	-39.87	V
526.64	-62.14	-58.92	-1.30	-1.92	-13.00	-49.14	V
968.96	-61.26	-57.32	-1.30	-2.64	-13.00	-48.26	V
3760.00	-46.09	-52.75	12.42	-5.76	-13.00	-33.09	V



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Operation Mode: Tx / Mid CH

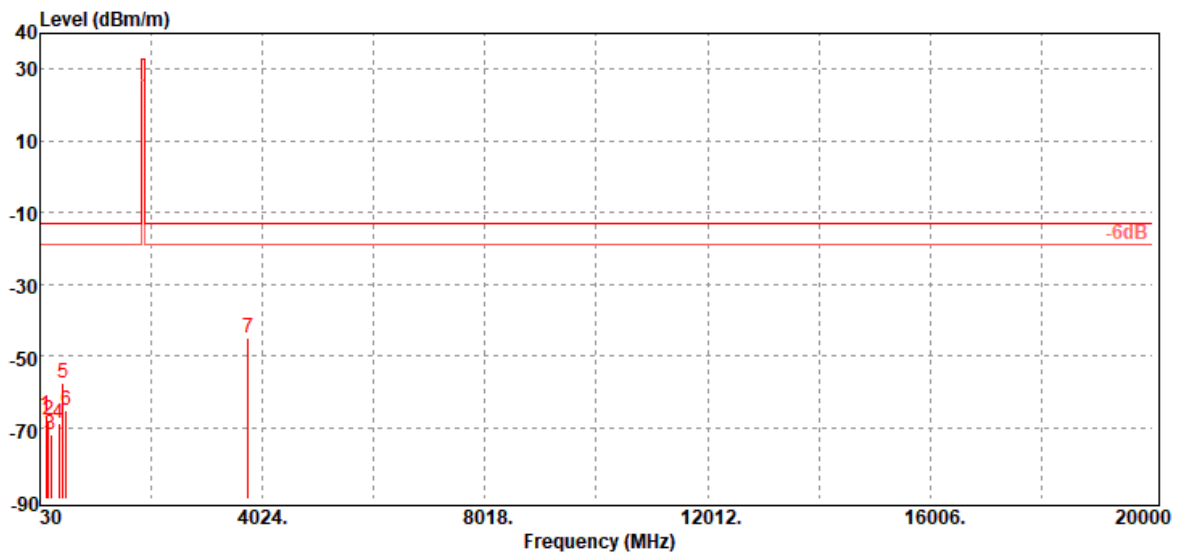
Test Date: January 8, 2020

Temperature: 18.6°C

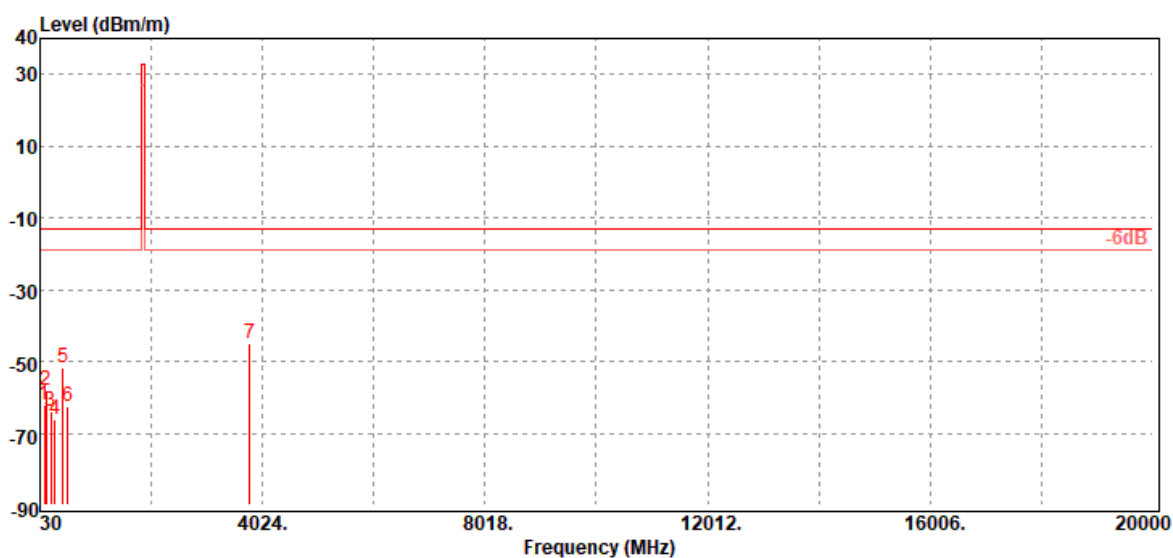
Tested by: Jerry Chang

Humidity: 59% RH

Polarity: Hor.



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)	Antenna Polarization (V/H)
134.76	-66.62	-56.32	-9.35	-0.95	-13.00	-53.62	H
177.44	-68.03	-62.28	-4.66	-1.09	-13.00	-55.03	H
227.88	-71.91	-68.65	-2.02	-1.24	-13.00	-58.91	H
362.71	-68.90	-65.52	-1.80	-1.58	-13.00	-55.90	H
445.16	-57.58	-53.73	-2.10	-1.75	-13.00	-44.58	H
500.45	-65.35	-61.49	-1.99	-1.87	-13.00	-52.35	H
3760.00	-45.17	-51.83	12.42	-5.76	-13.00	-32.17	H

Operation Mode: Tx / High CH**Test Date:** January 8, 2020**Temperature:** 18.6°C**Tested by:** Jerry Chang**Humidity:** 59% RH**Polarity:** Ver.

Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)	Antenna Polarization (V/H)
105.66	-62.16	-51.95	-9.37	-0.84	-13.00	-49.16	V
131.85	-58.20	-47.45	-9.81	-0.94	-13.00	-45.20	V
225.94	-63.88	-60.71	-1.94	-1.23	-13.00	-50.88	V
299.66	-65.94	-62.5	-2.01	-1.43	-13.00	-52.94	V
445.16	-51.99	-48.14	-2.10	-1.75	-13.00	-38.99	V
524.70	-62.78	-59.56	-1.31	-1.91	-13.00	-49.78	V
3800.00	-44.96	-51.67	12.50	-5.79	-13.00	-31.96	V

Operation Mode: Tx / High CH

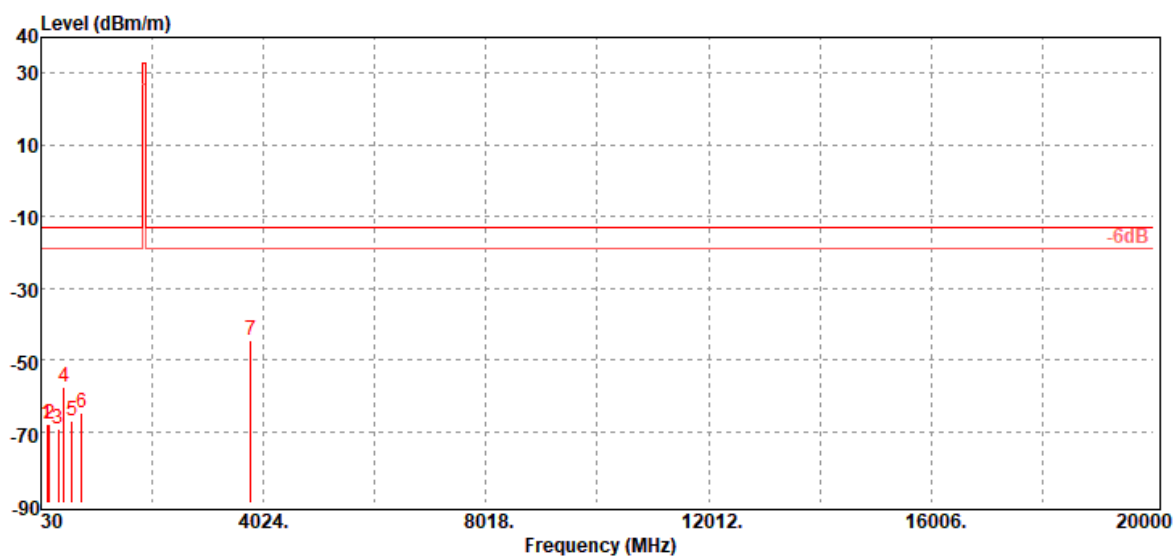
Test Date: January 8, 2020

Temperature: 18.6°C

Tested by: Jerry Chang

Humidity: 59% RH

Polarity: Hor.



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)	Antenna Polarization (V/H)
133.79	-67.86	-57.39	-9.52	-0.95	-13.00	-54.86	H
187.14	-68.02	-62.9	-3.99	-1.13	-13.00	-55.02	H
333.61	-69.48	-66.34	-1.63	-1.51	-13.00	-56.48	H
447.10	-57.61	-53.76	-2.10	-1.75	-13.00	-44.61	H
579.99	-67.15	-63.73	-1.40	-2.02	-13.00	-54.15	H
757.50	-64.98	-61.26	-1.40	-2.32	-13.00	-51.98	H
3800.00	-44.41	-51.12	12.50	-5.79	-13.00	-31.41	H

- End of Test Report -