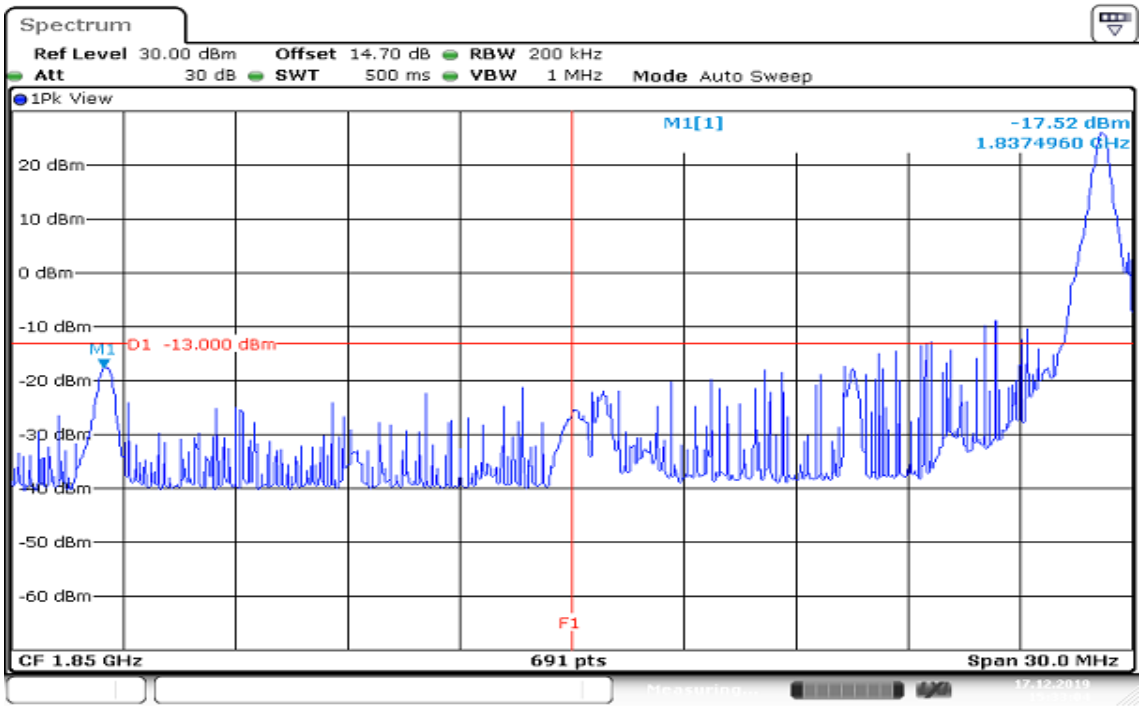
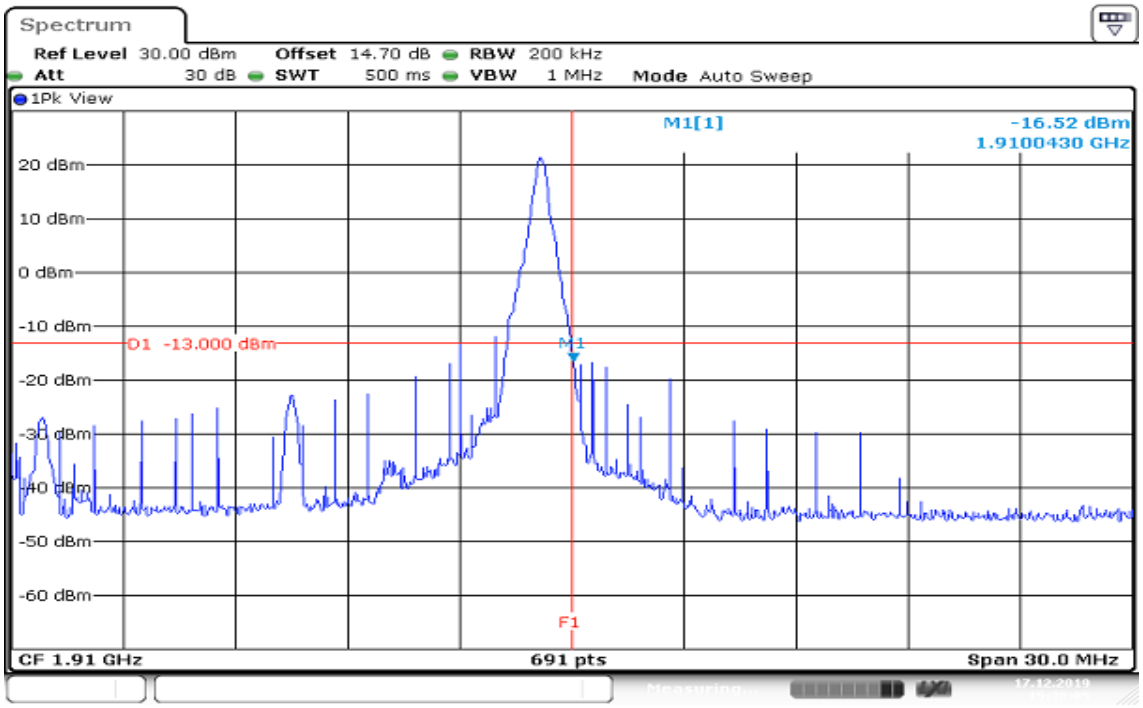
CHANNEL BANDWIDTH: 15MHz / 16QAM / 1RB ALLOCATED
LOWER BAND EDGE



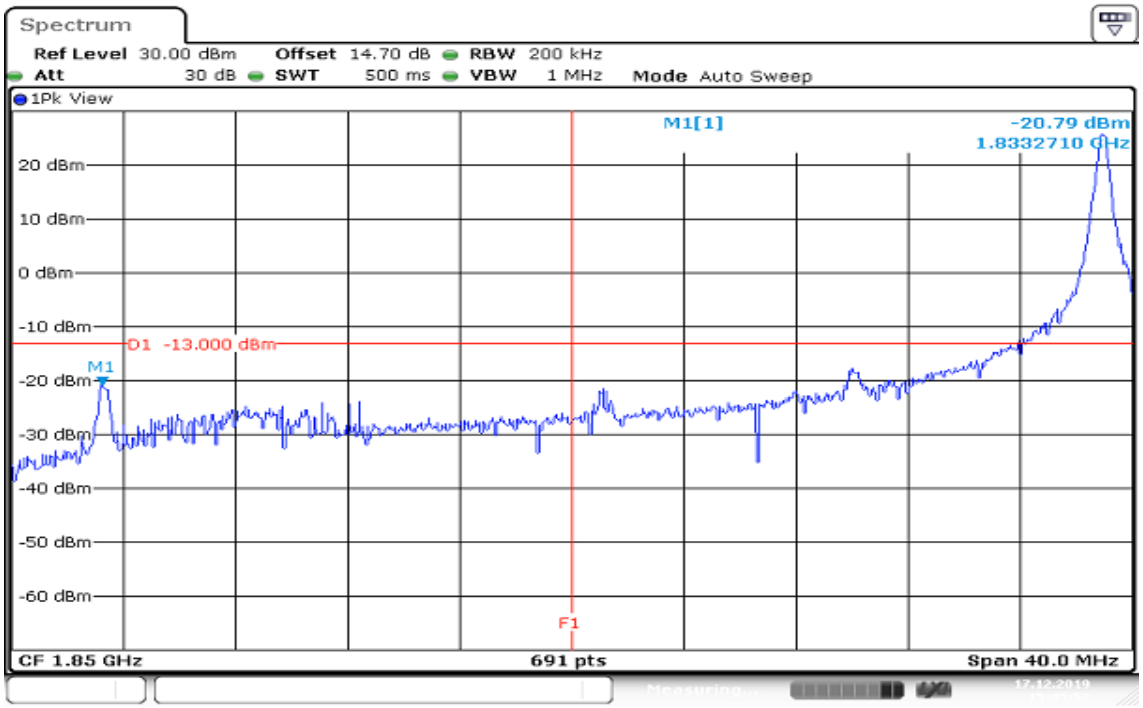
Date: 17.DEC.2019 15:33:04

HIGHER BAND EDGE



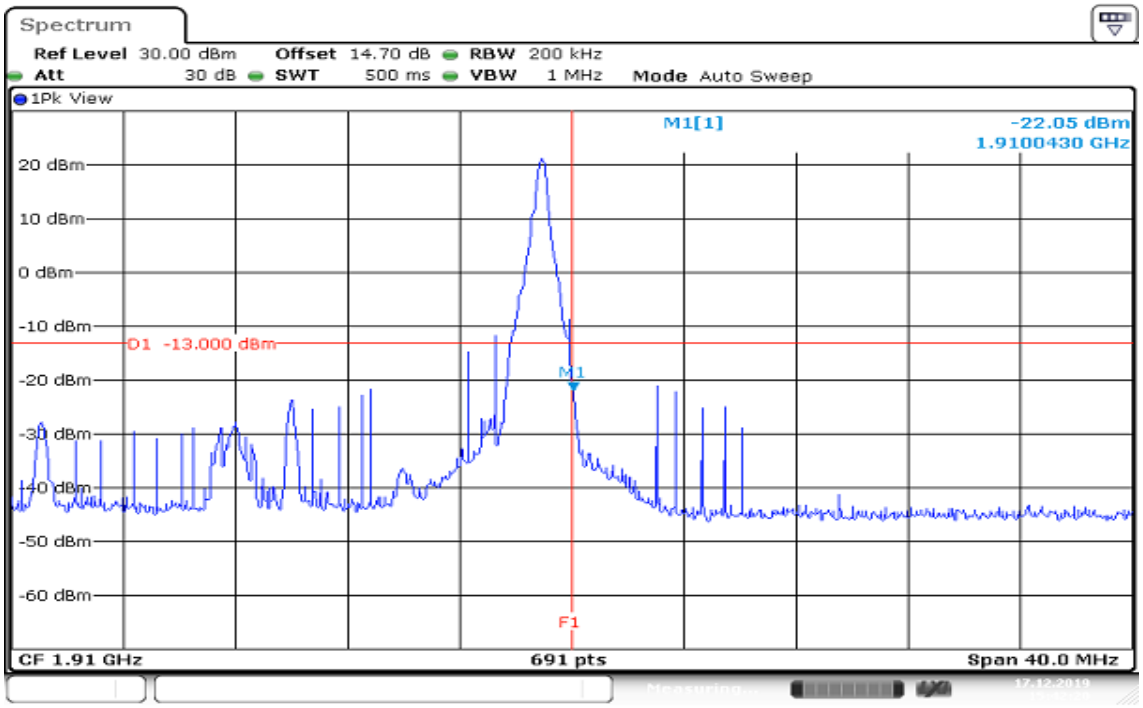
Date: 17.DEC.2019 15:38:06

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



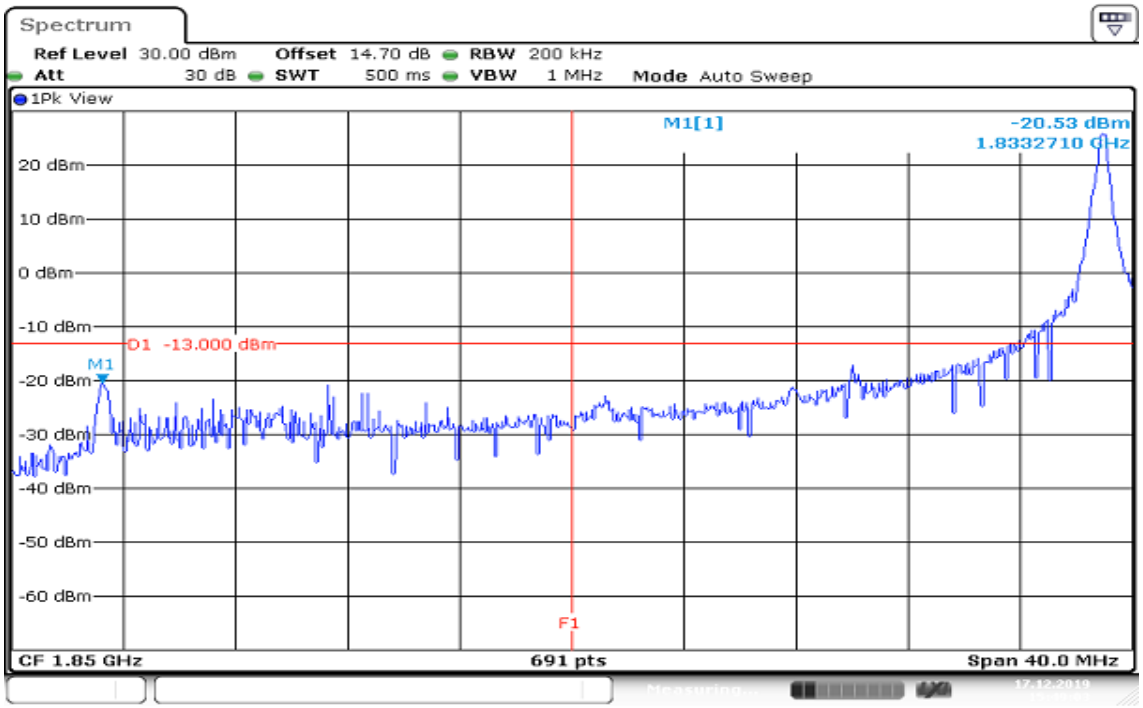
Date: 17.DEC.2019 15:45:53

HIGHER BAND EDGE



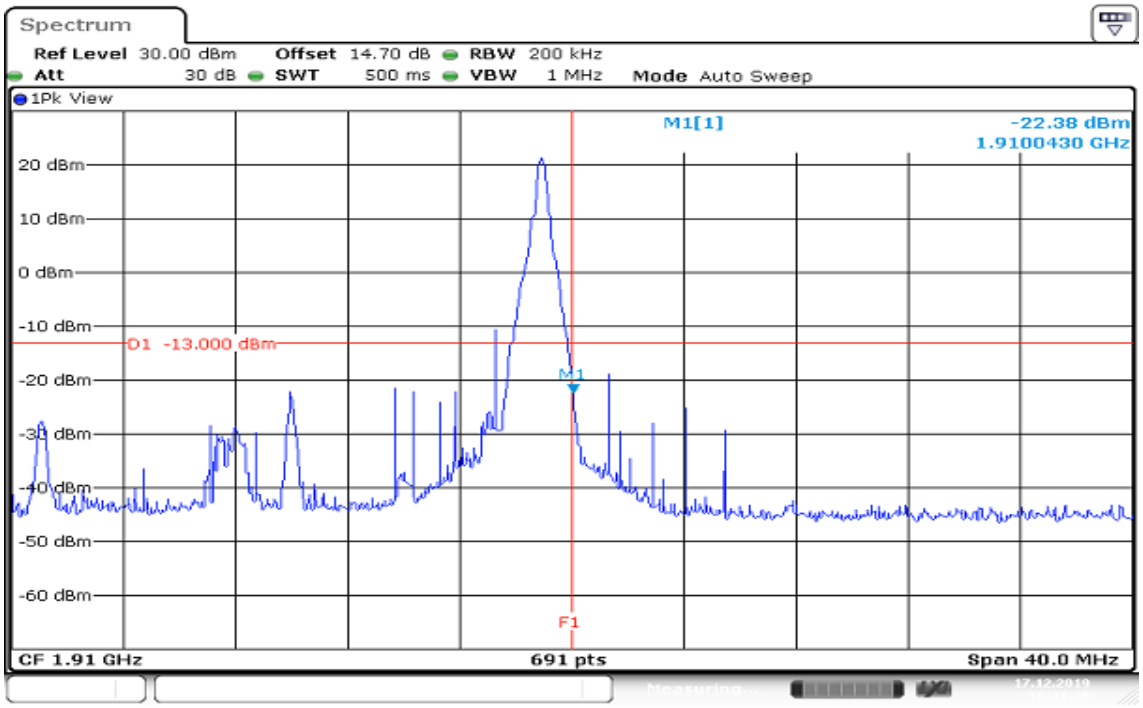
Date: 17.DEC.2019 15:42:21

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



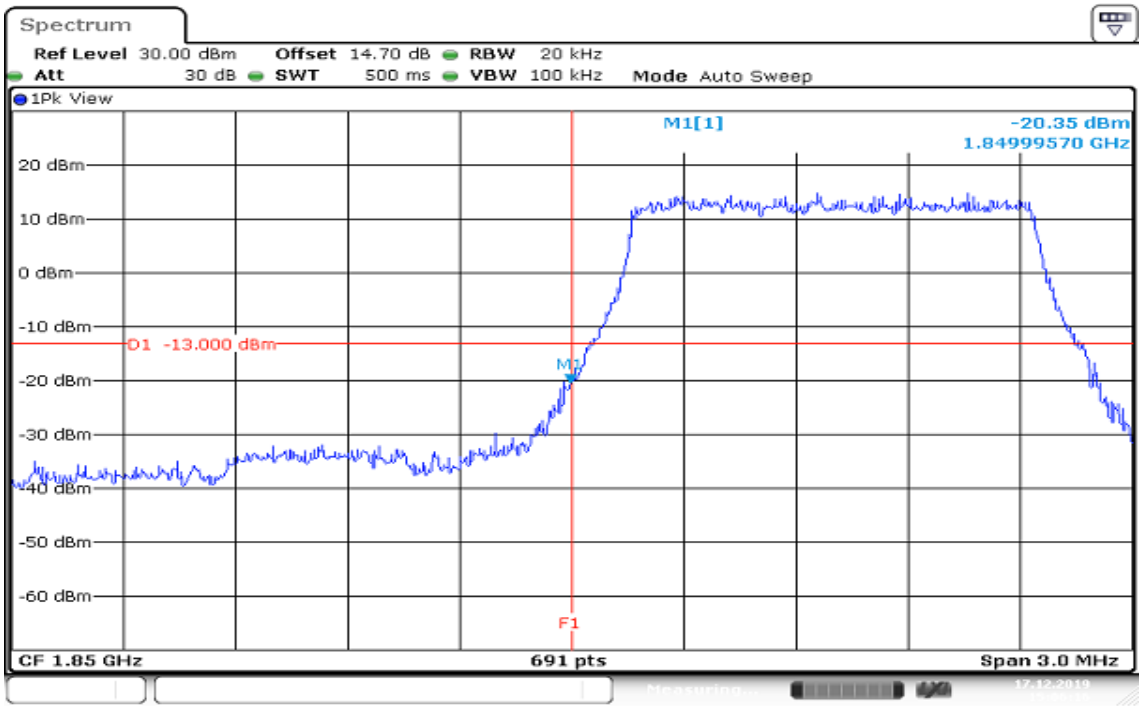
Date: 17.DEC.2019 15:49:04

HIGHER BAND EDGE



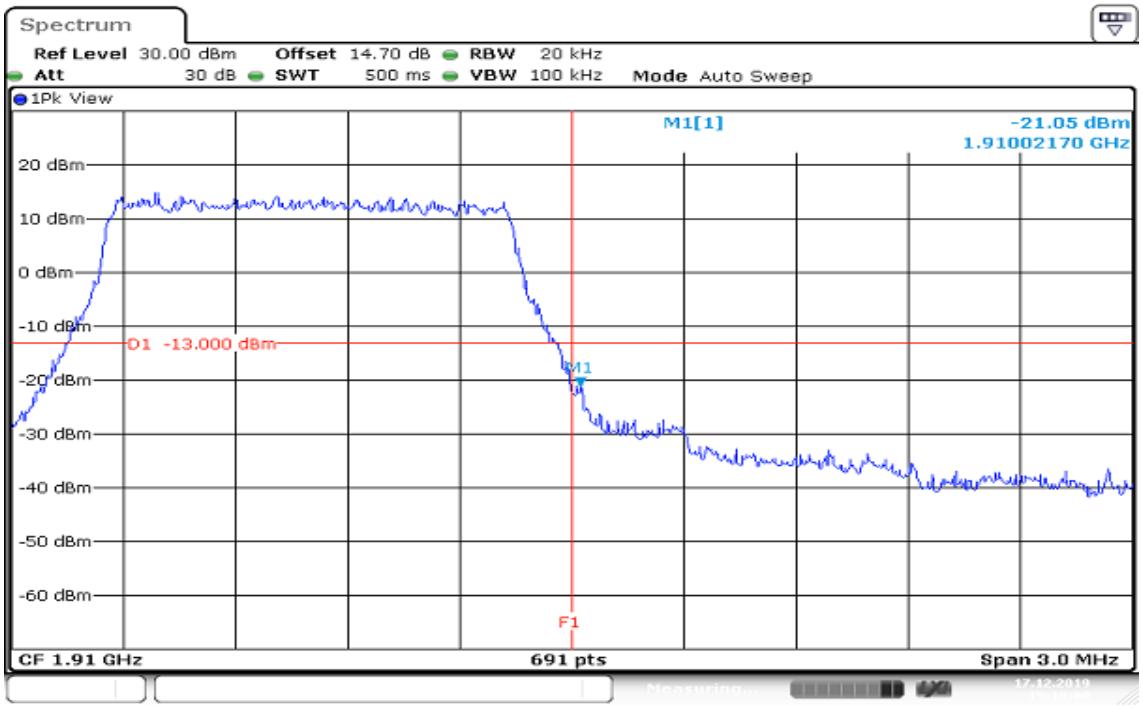
Date: 17.DEC.2019 15:41:25

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



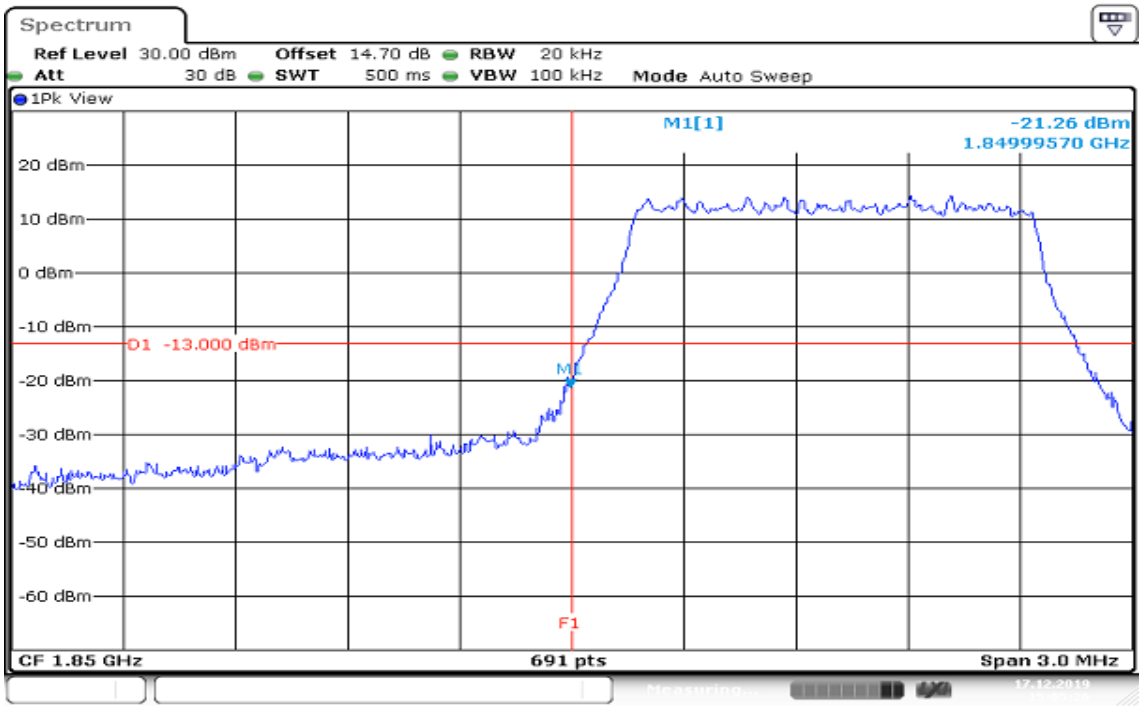
Date: 17.DEC.2019 15:06:17

HIGHER BAND EDGE



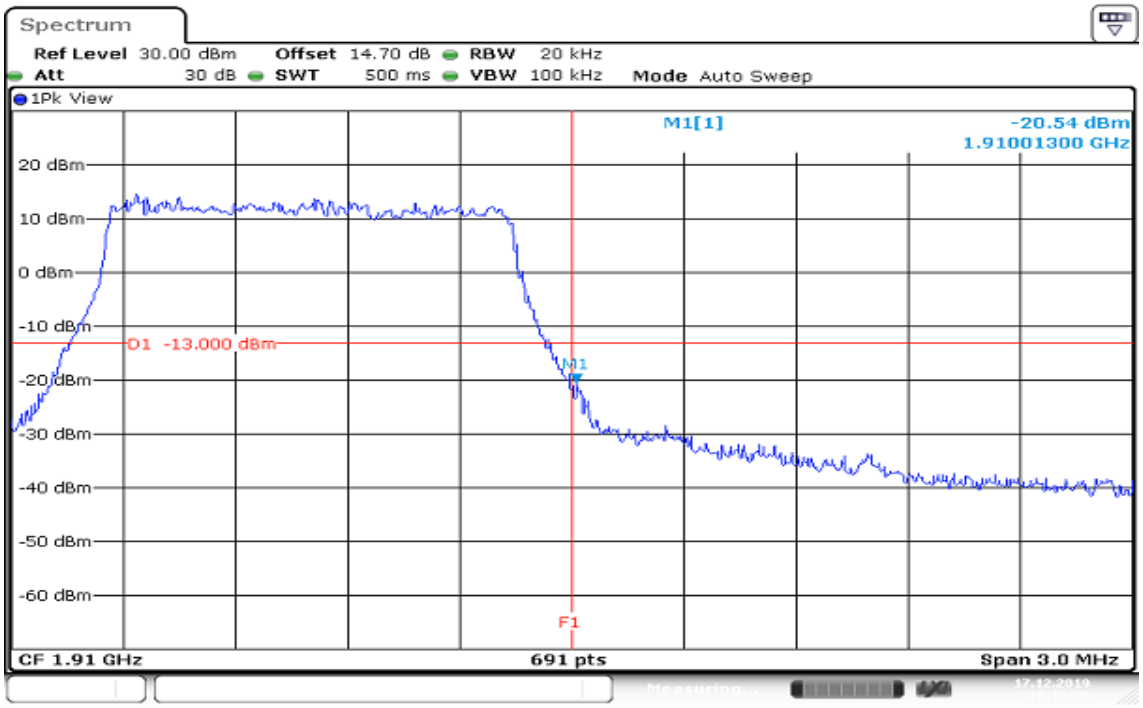
Date: 17.DEC.2019 15:10:01

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



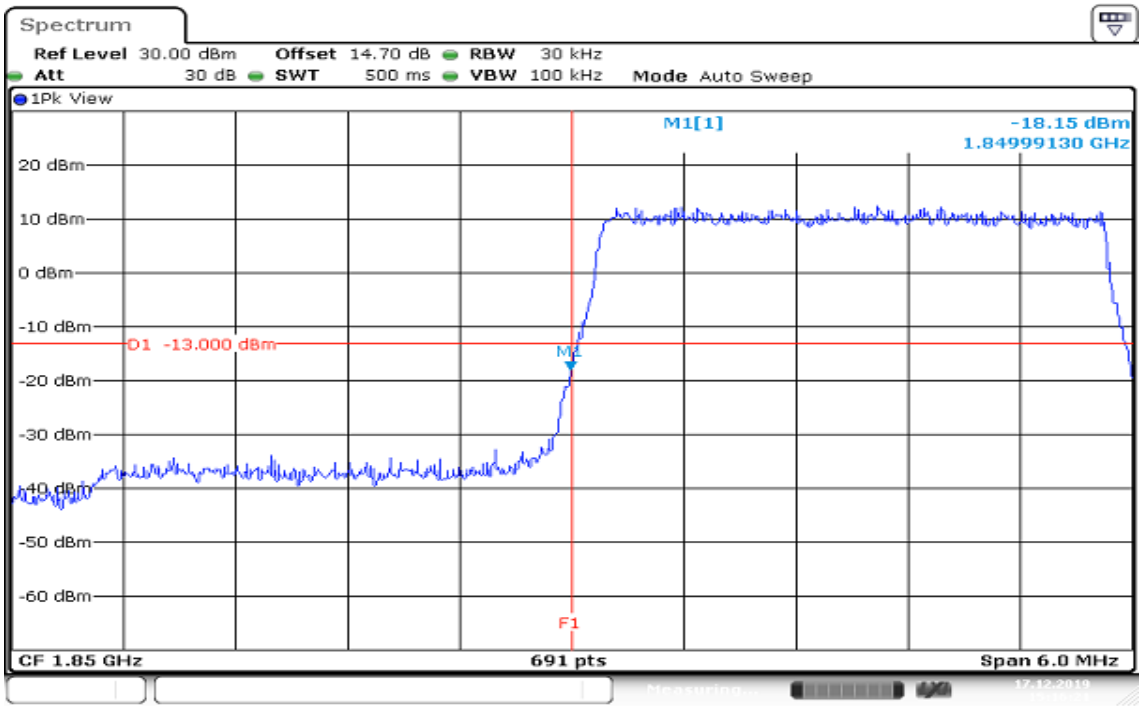
Date: 17.DEC.2019 15:05:26

HIGHER BAND EDGE



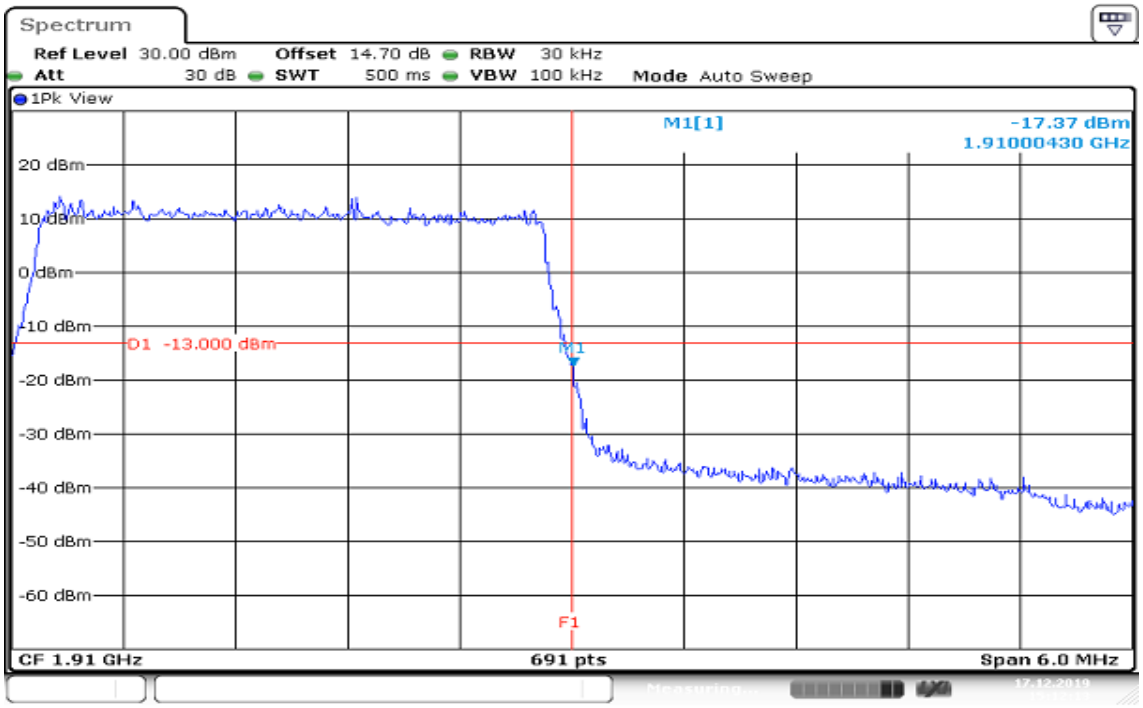
Date: 17.DEC.2019 15:10:37

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



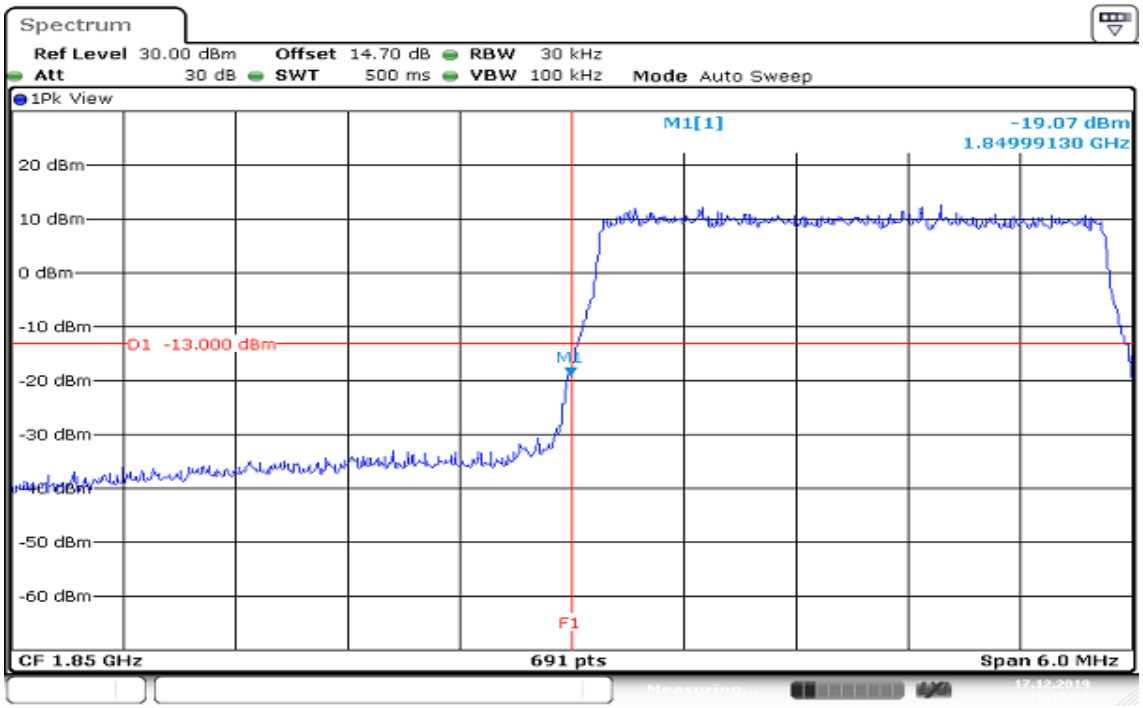
Date: 17.DEC.2019 15:16:22

HIGHER BAND EDGE



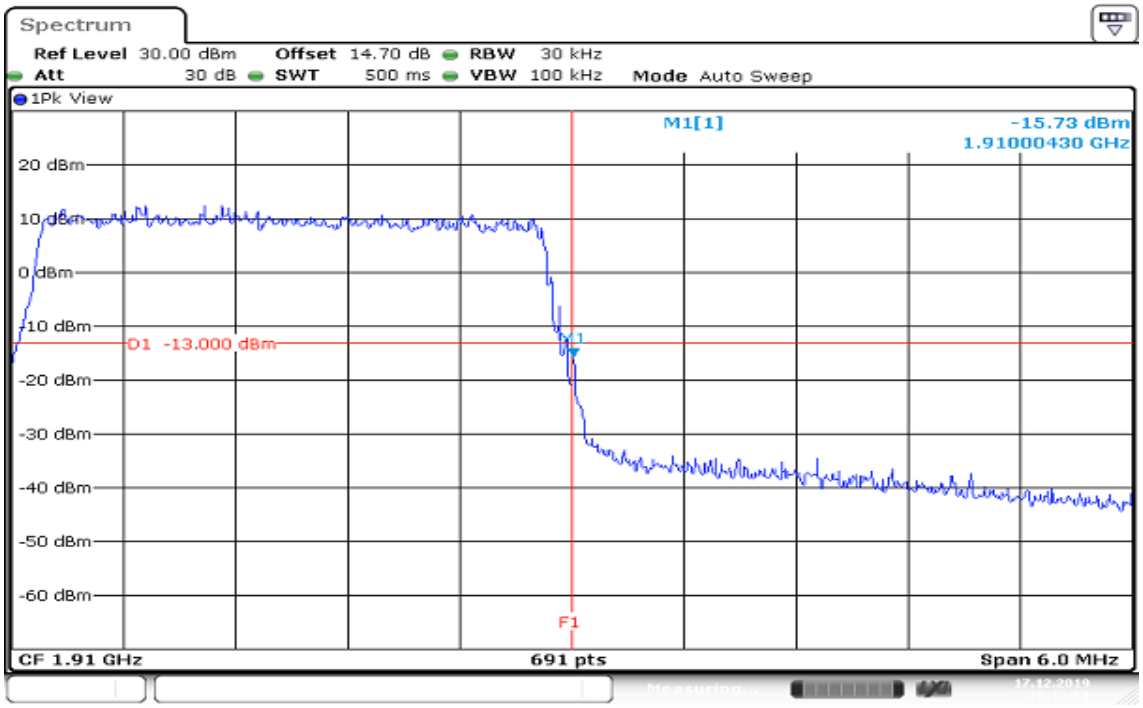
Date: 17.DEC.2019 15:12:13

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



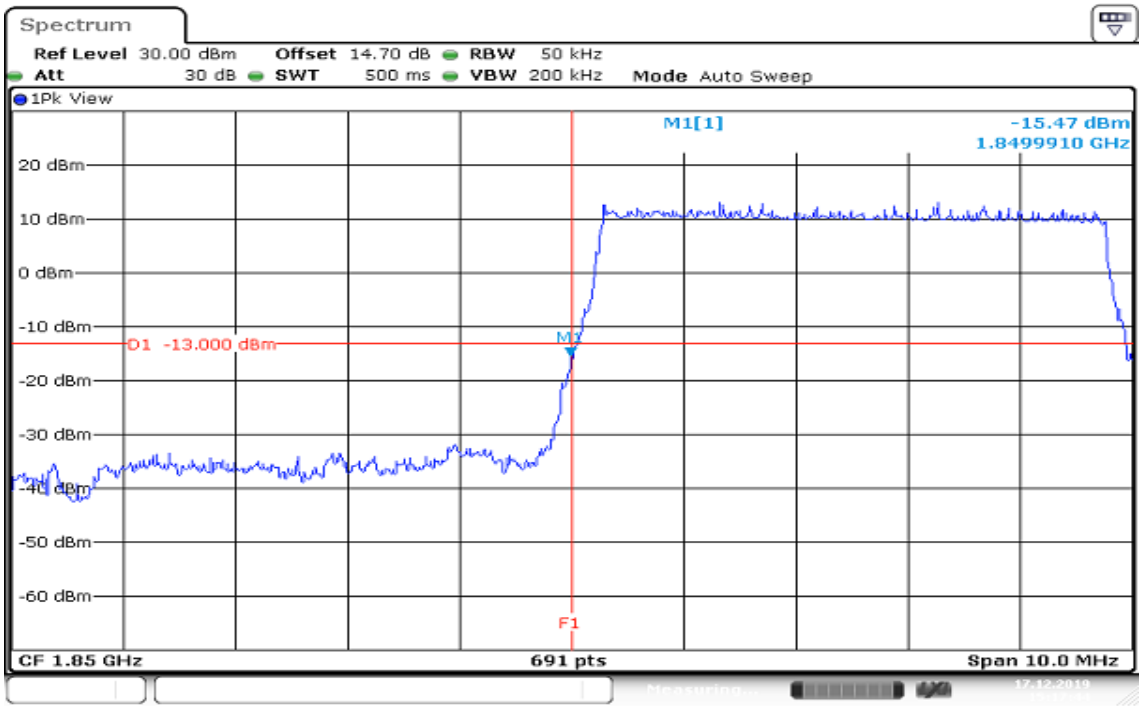
Date: 17.DEC.2019 15:15:54

HIGHER BAND EDGE



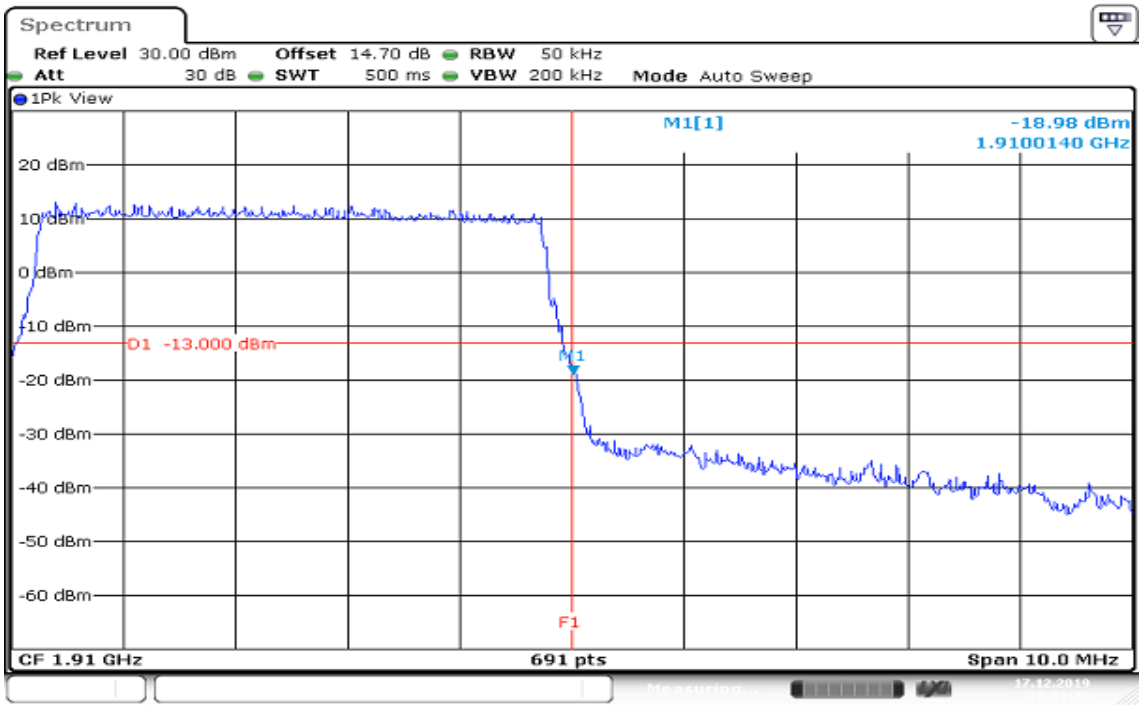
Date: 17.DEC.2019 15:12:52

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



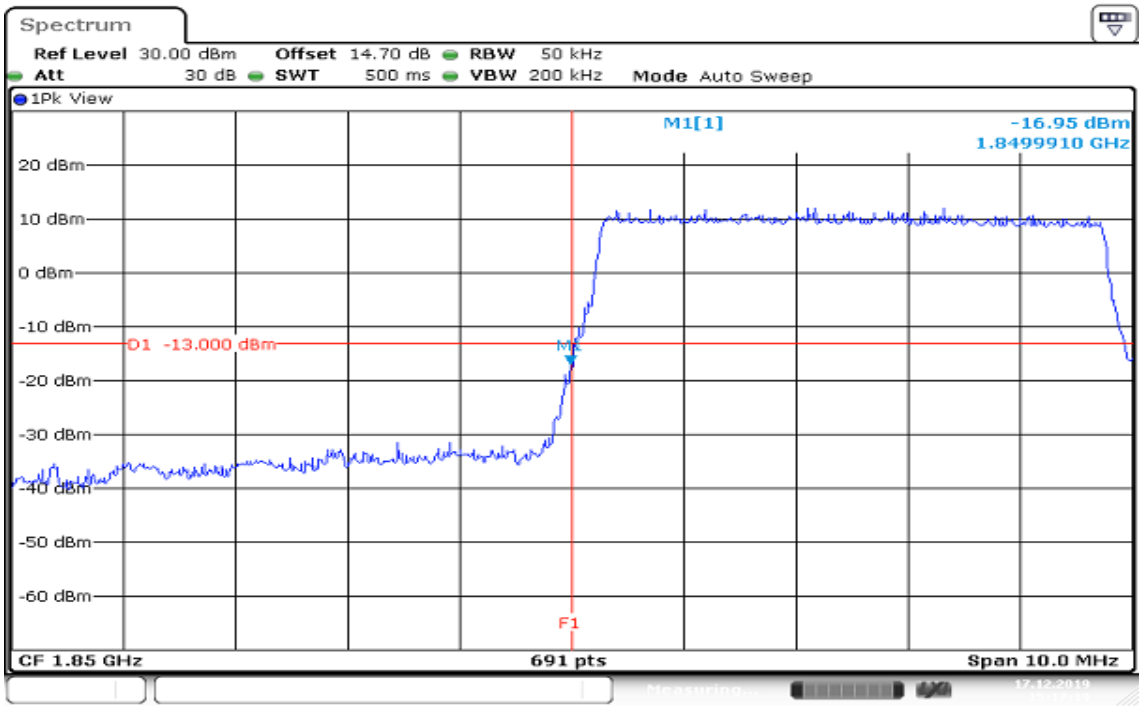
Date: 17.DEC.2019 15:17:45

HIGHER BAND EDGE



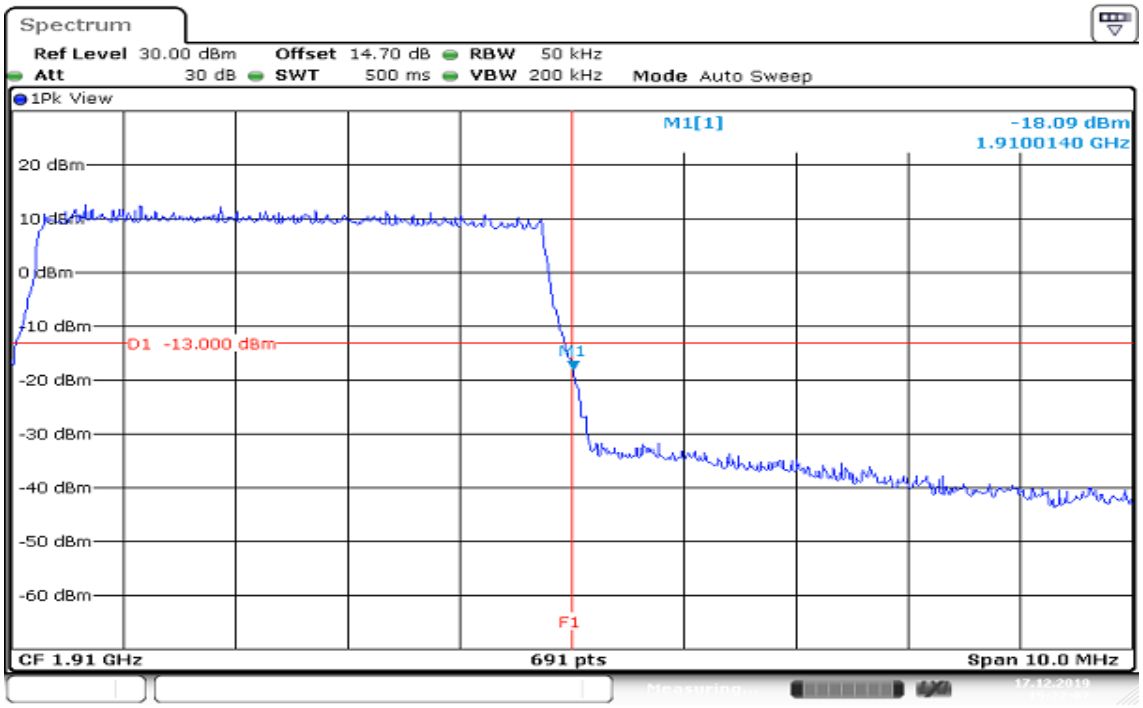
Date: 17.DEC.2019 15:21:44

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



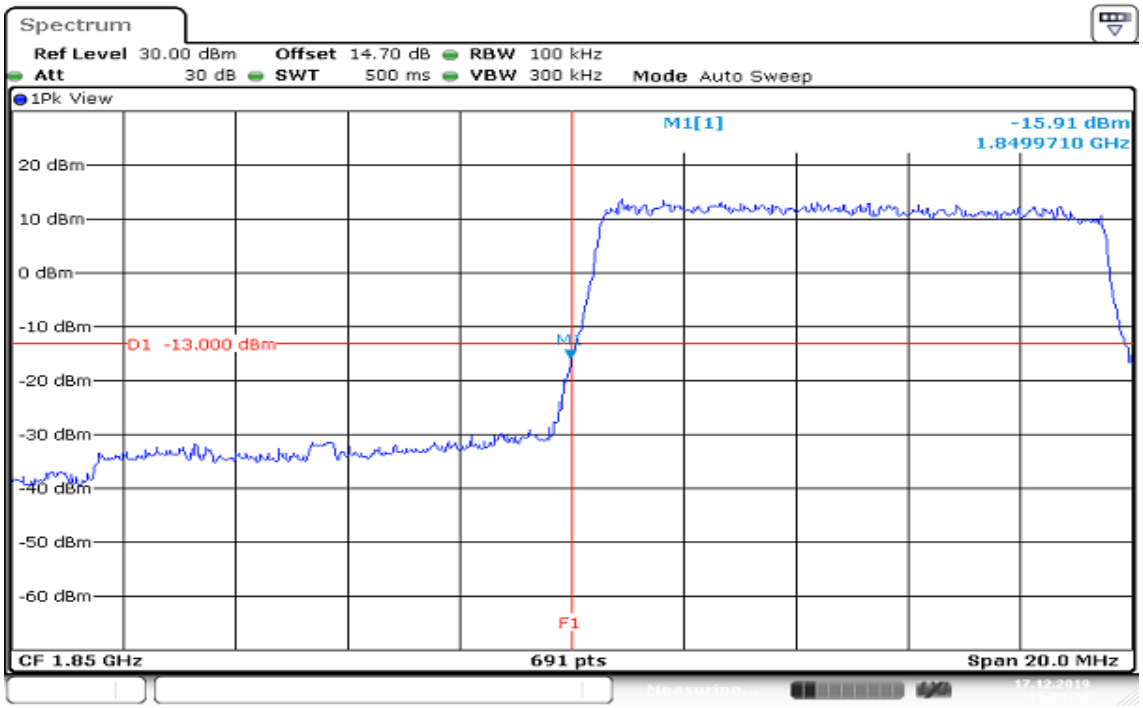
Date: 17.DEC.2019 15:17:20

HIGHER BAND EDGE



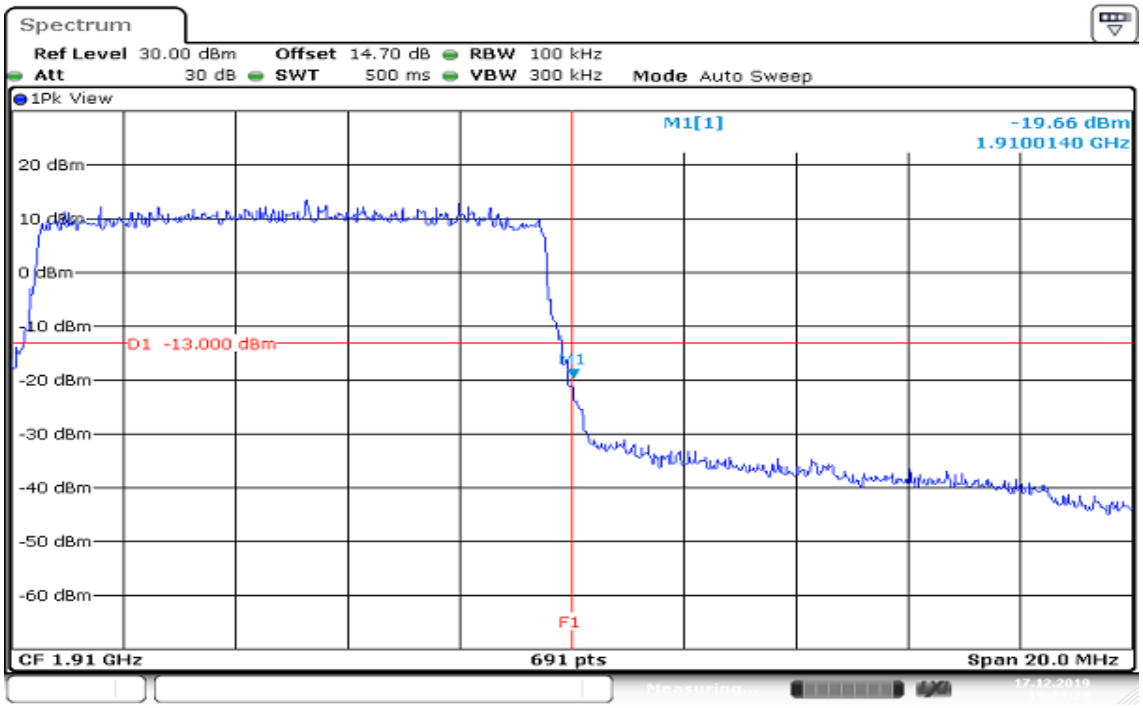
Date: 17.DEC.2019 15:22:07

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



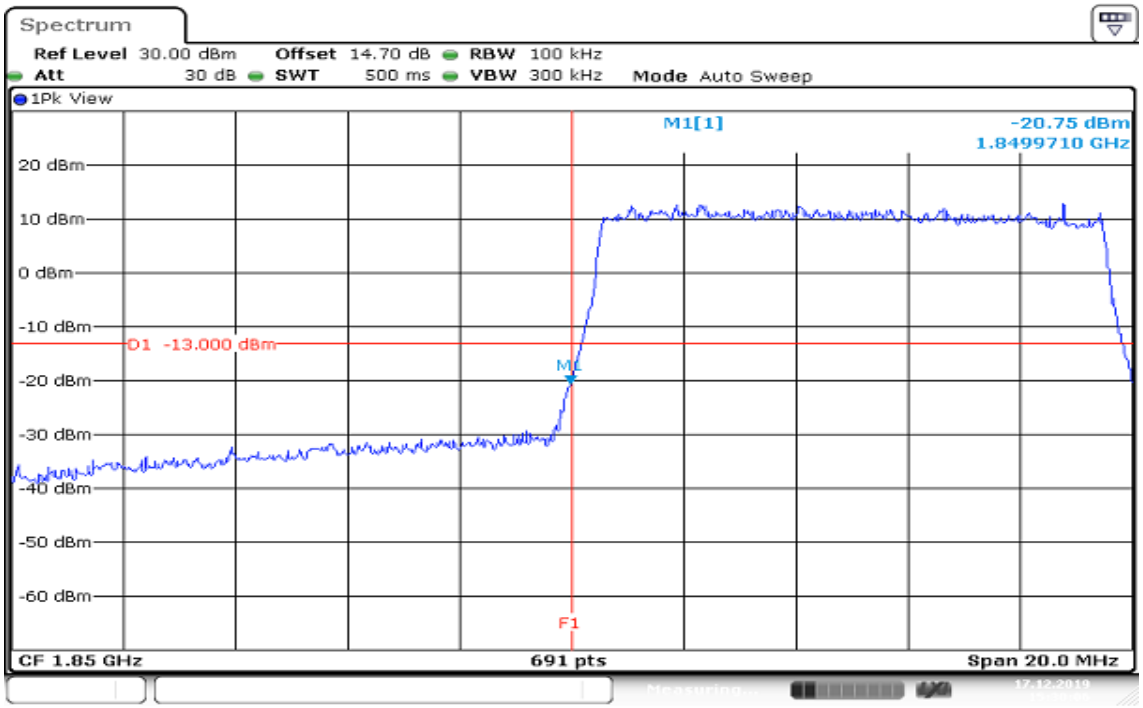
Date: 17.DEC.2019 15:29:37

HIGHER BAND EDGE



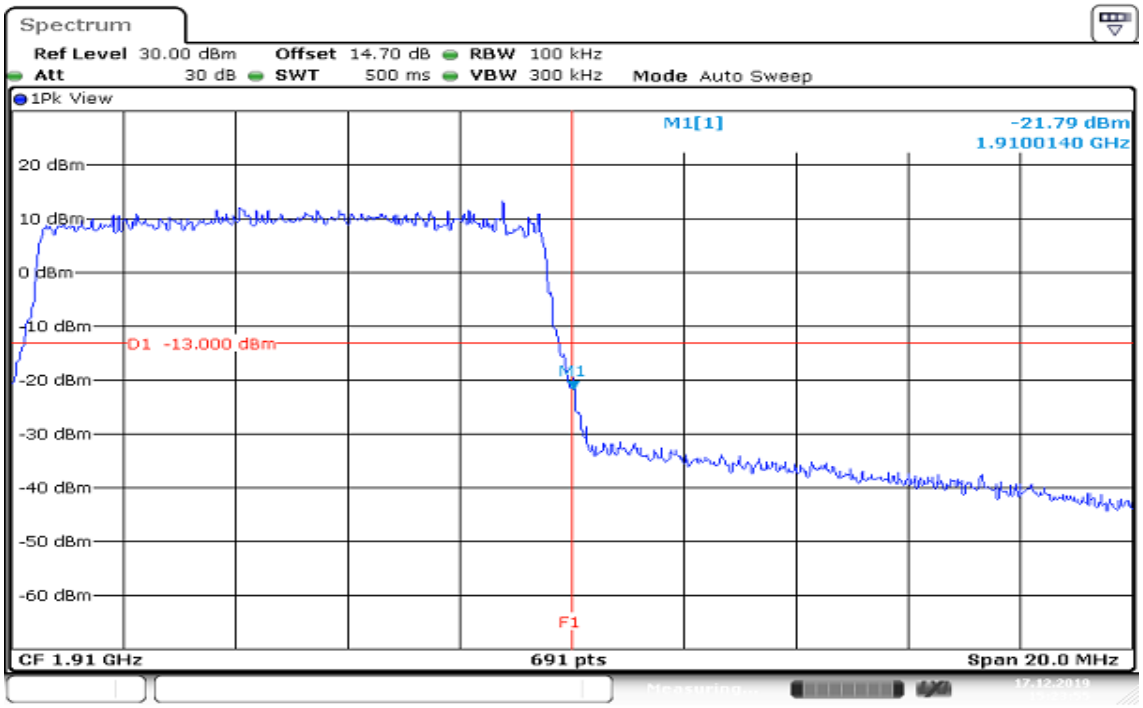
Date: 17.DEC.2019 15:23:30

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



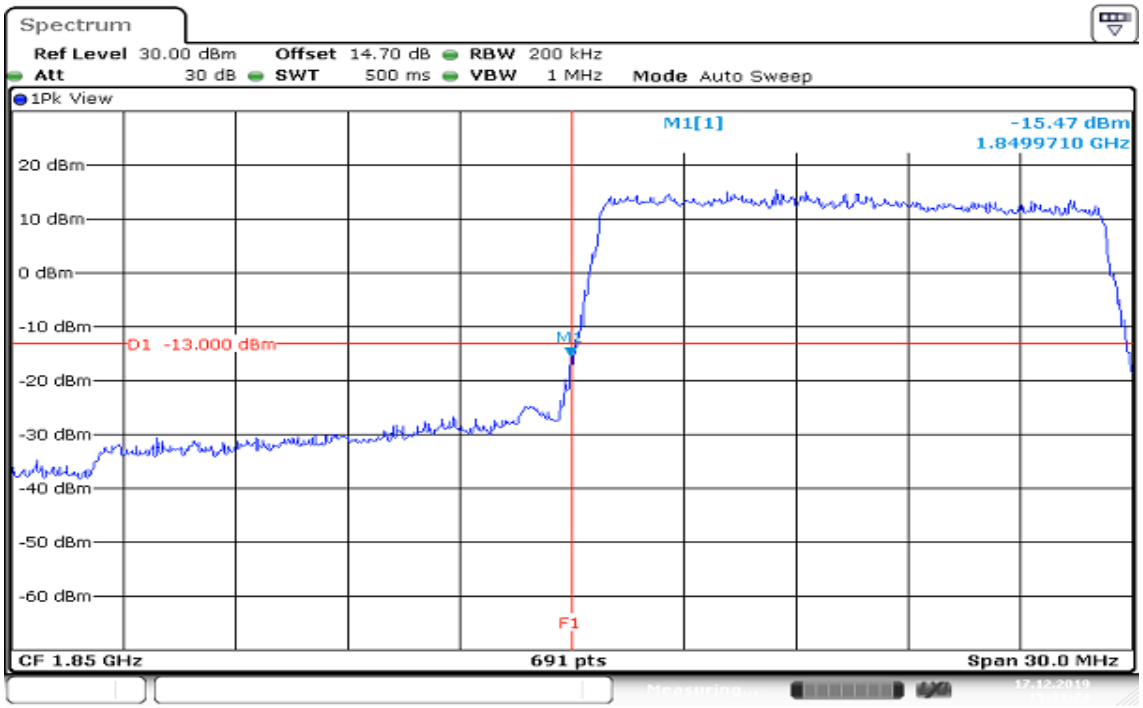
Date: 17.DEC.2019 15:30:07

HIGHER BAND EDGE



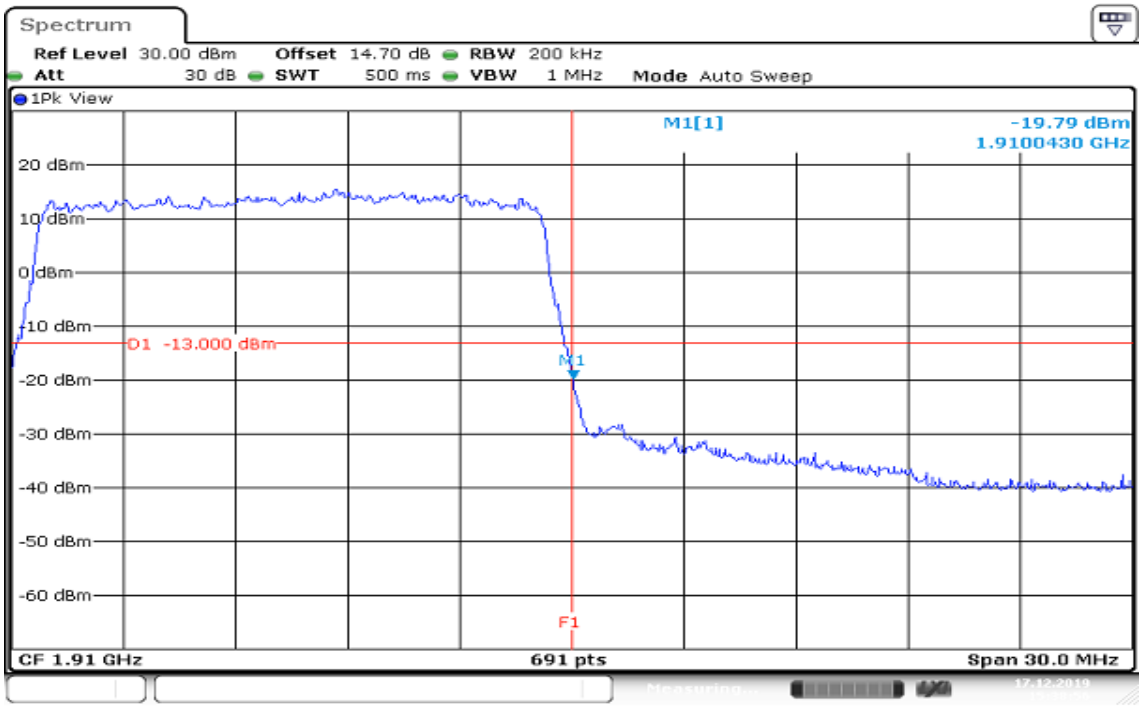
Date: 17.DEC.2019 15:23:56

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



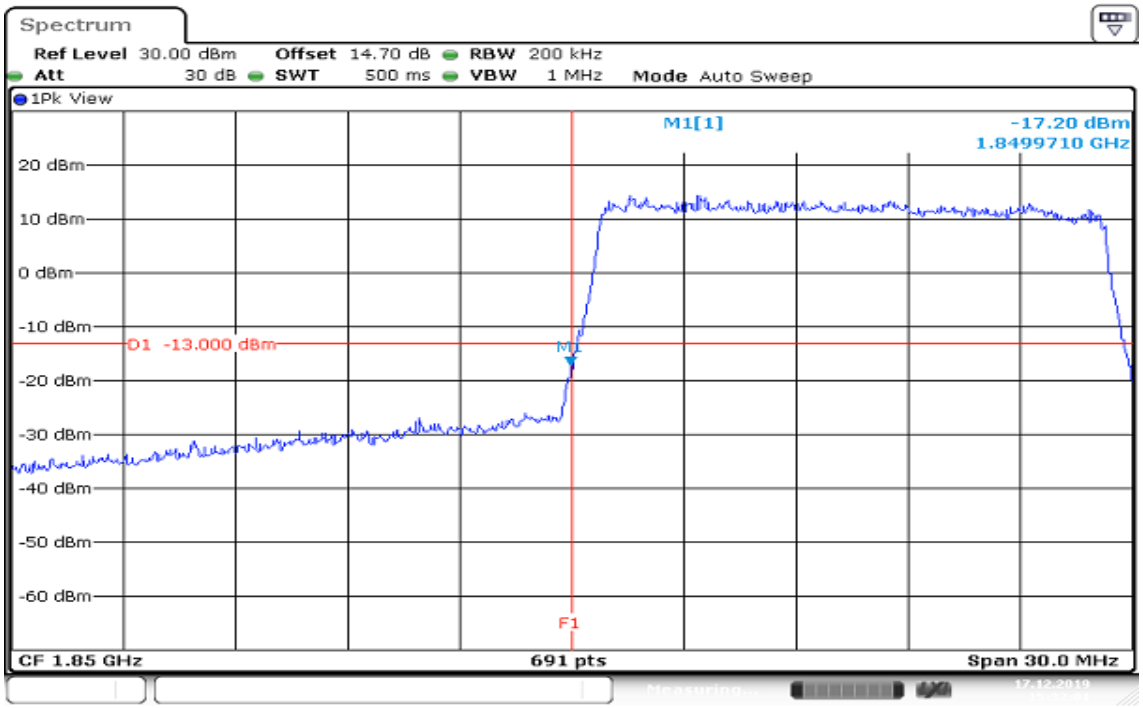
Date: 17.DEC.2019 15:31:25

HIGHER BAND EDGE



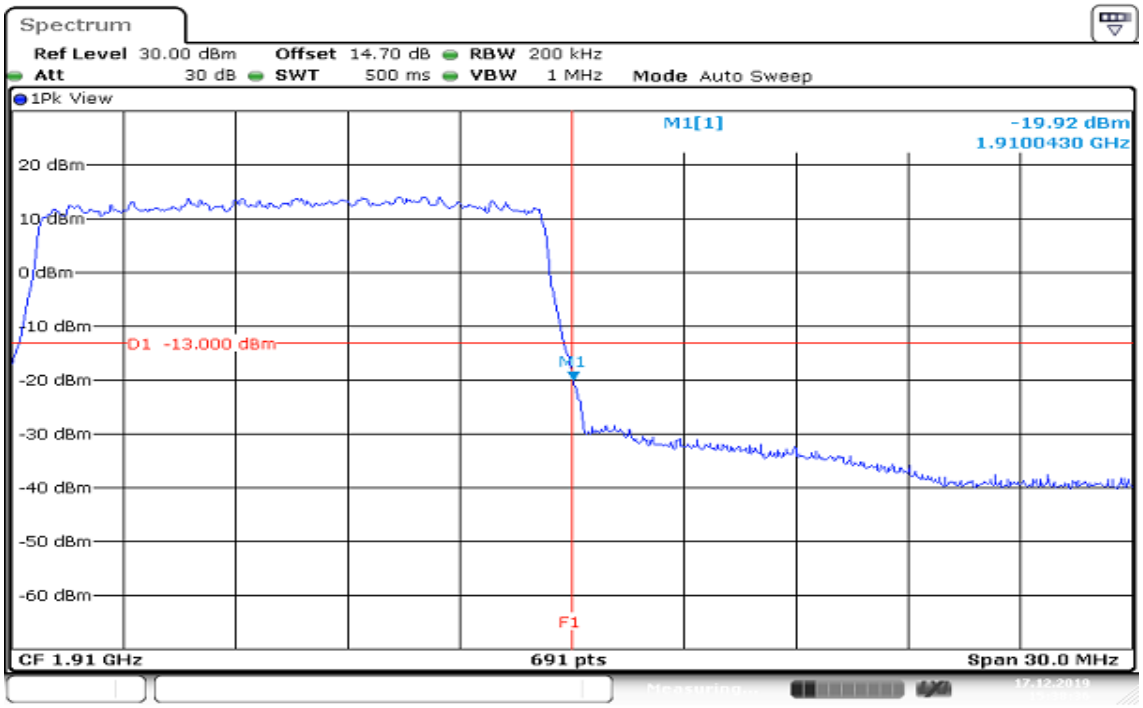
Date: 17.DEC.2019 15:38:56

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



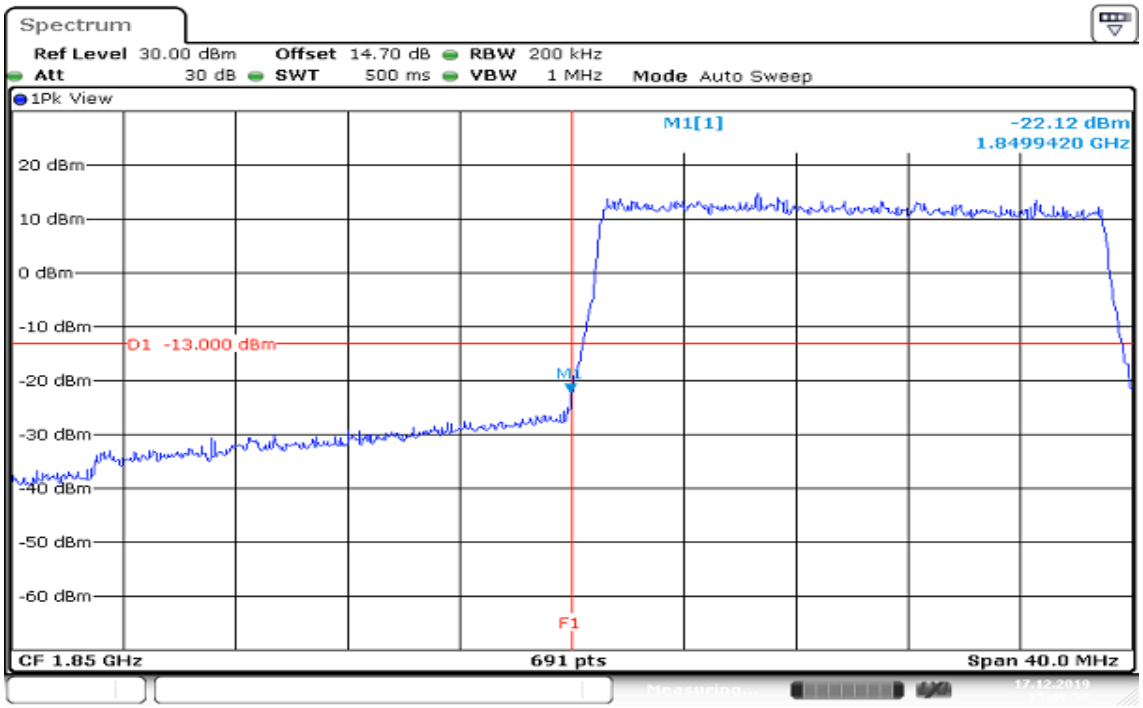
Date: 17.DEC.2019 15:32:01

HIGHER BAND EDGE



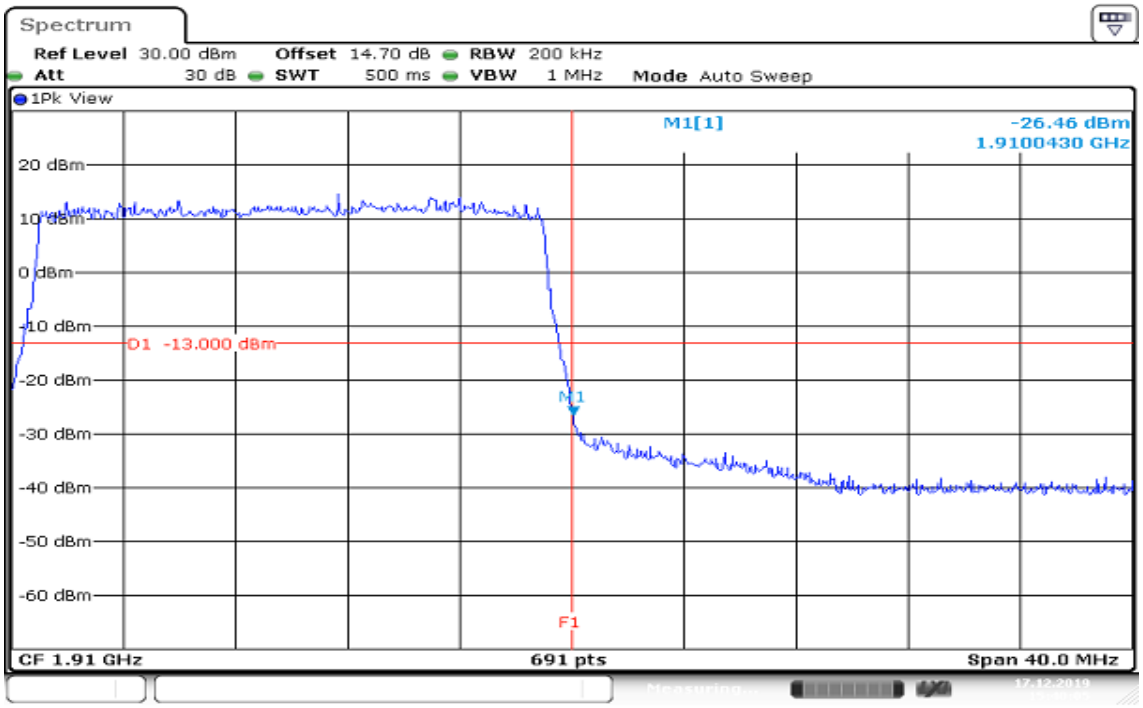
Date: 17.DEC.2019 15:38:37

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



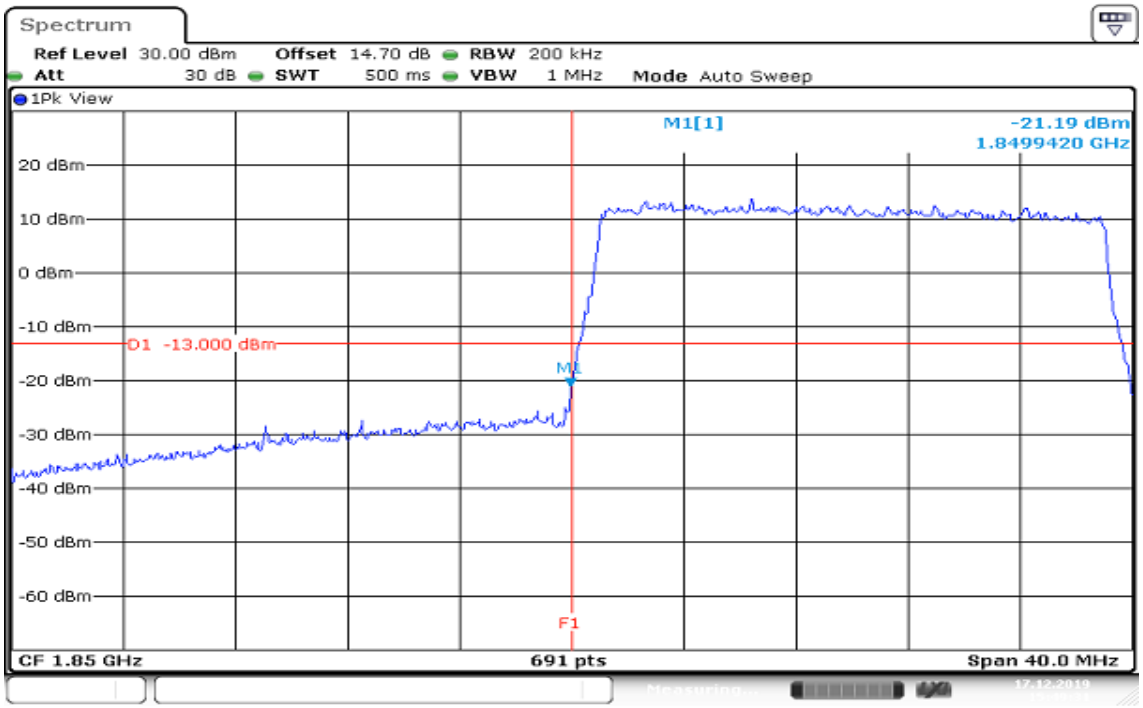
Date: 17.DEC.2019 15:49:59

HIGHER BAND EDGE



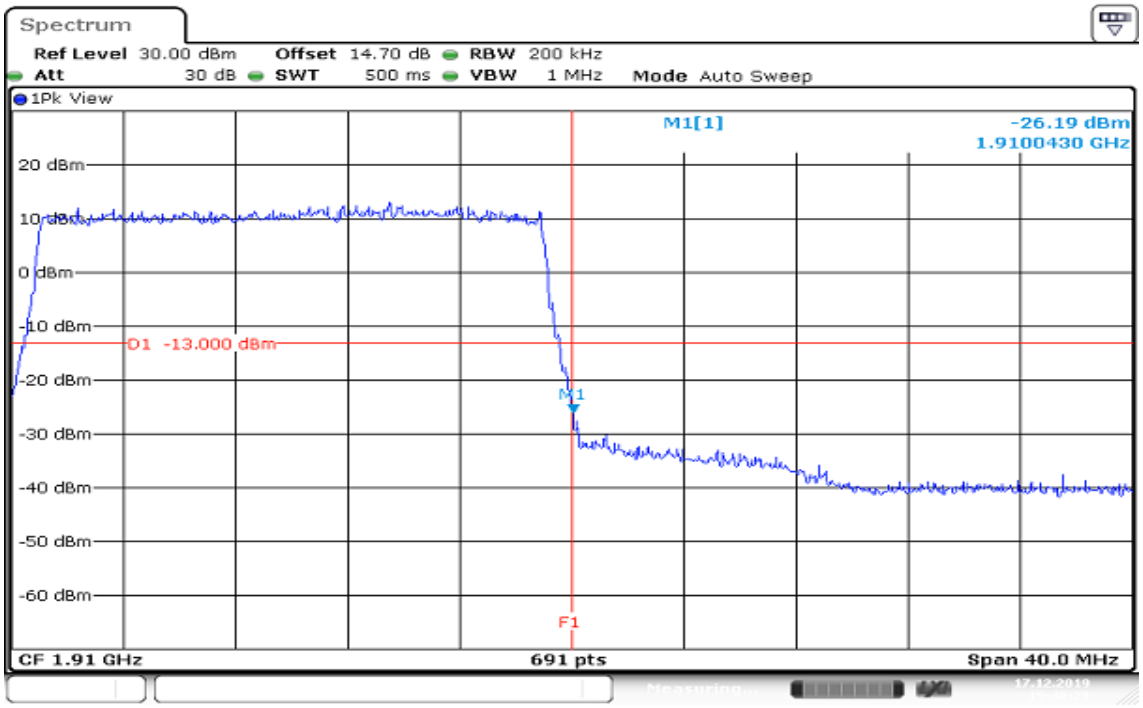
Date: 17.DEC.2019 15:40:05

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



Date: 17.DEC.2019 15:49:32

HIGHER BAND EDGE

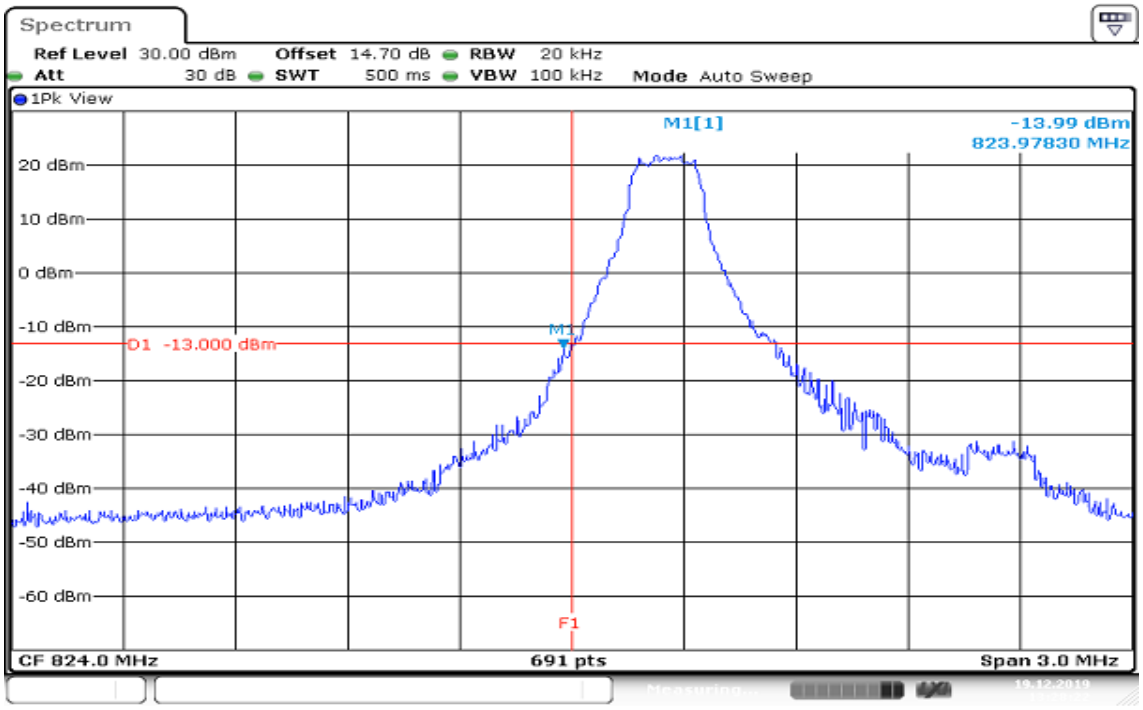


Date: 17.DEC.2019 15:40:29

LTE Band 5

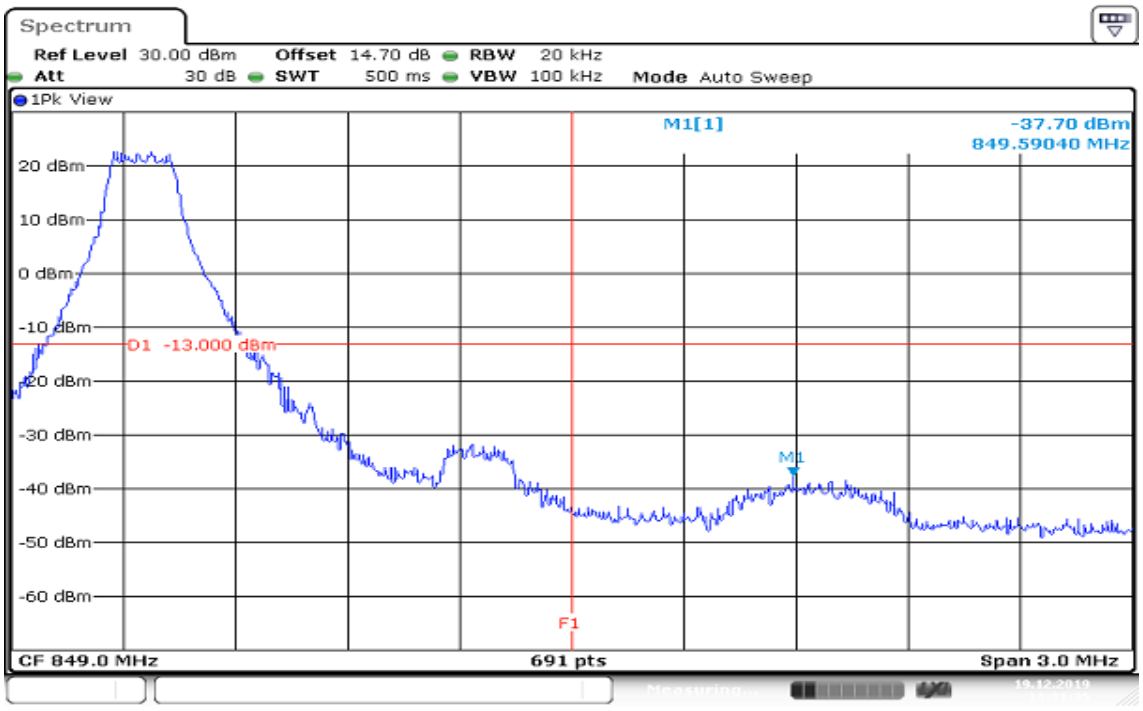
CHANNEL BANDWIDTH: 1.4MHz / QPSK / 1RB ALLOCATED

LOWER BAND EDGE



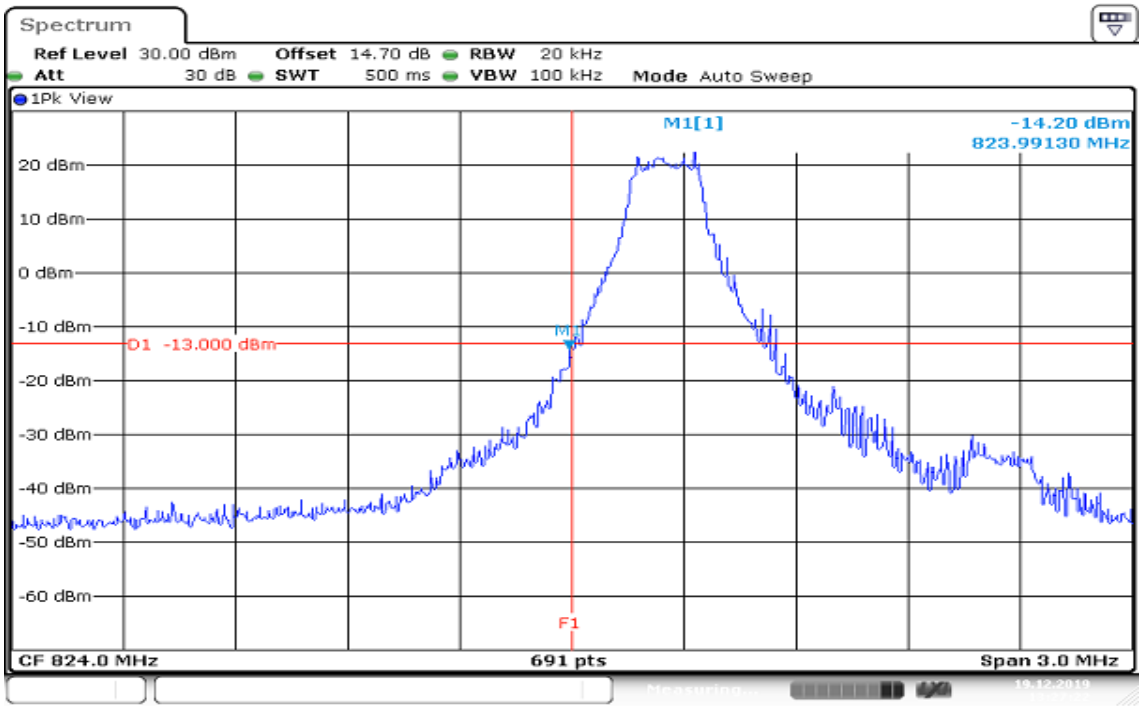
Date: 19.DEC.2019 13:28:22

HIGHER BAND EDGE



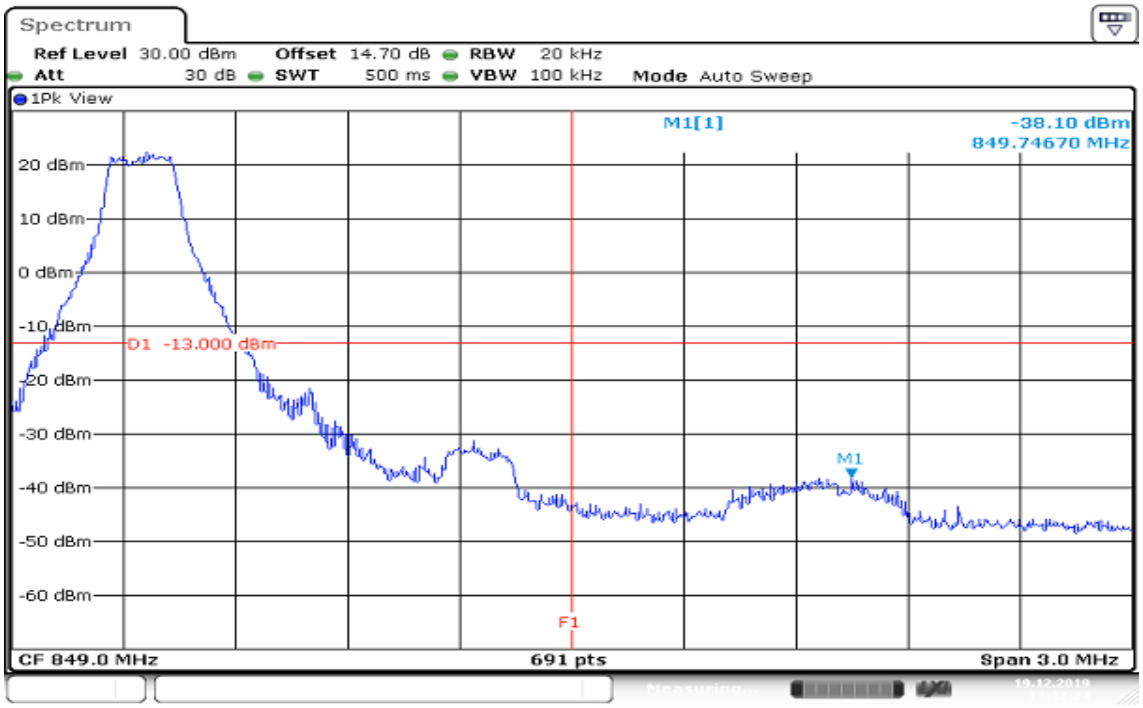
Date: 19.DEC.2019 13:31:36

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



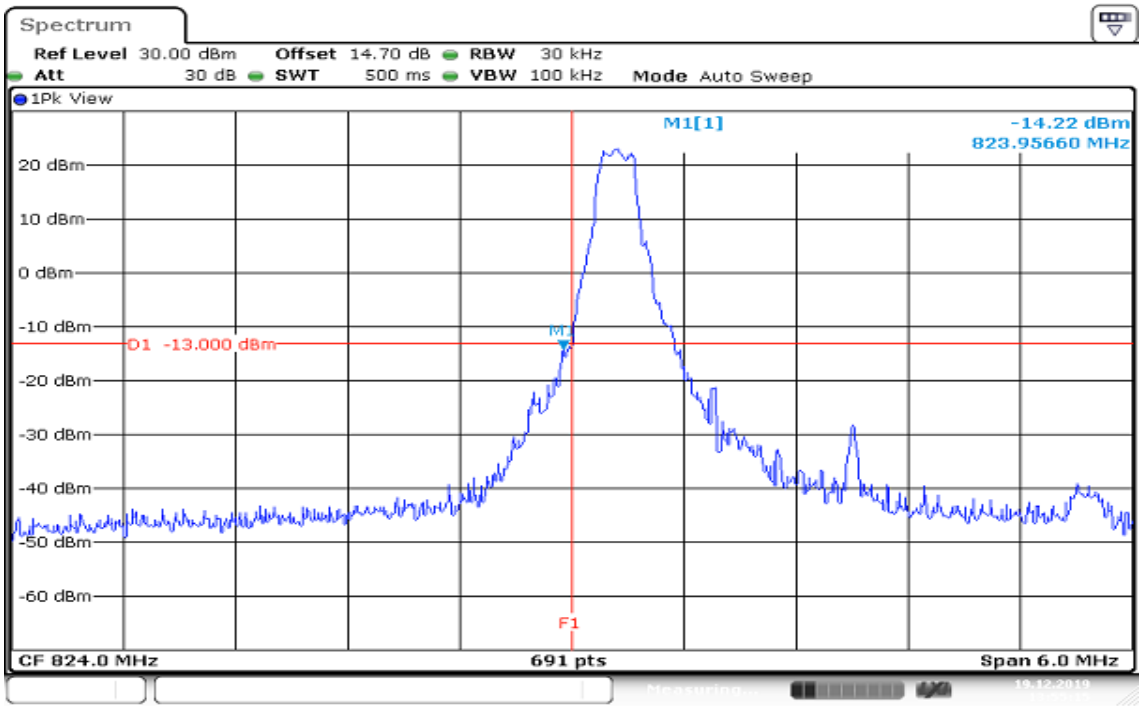
Date: 19.DEC.2019 13:27:23

HIGHER BAND EDGE



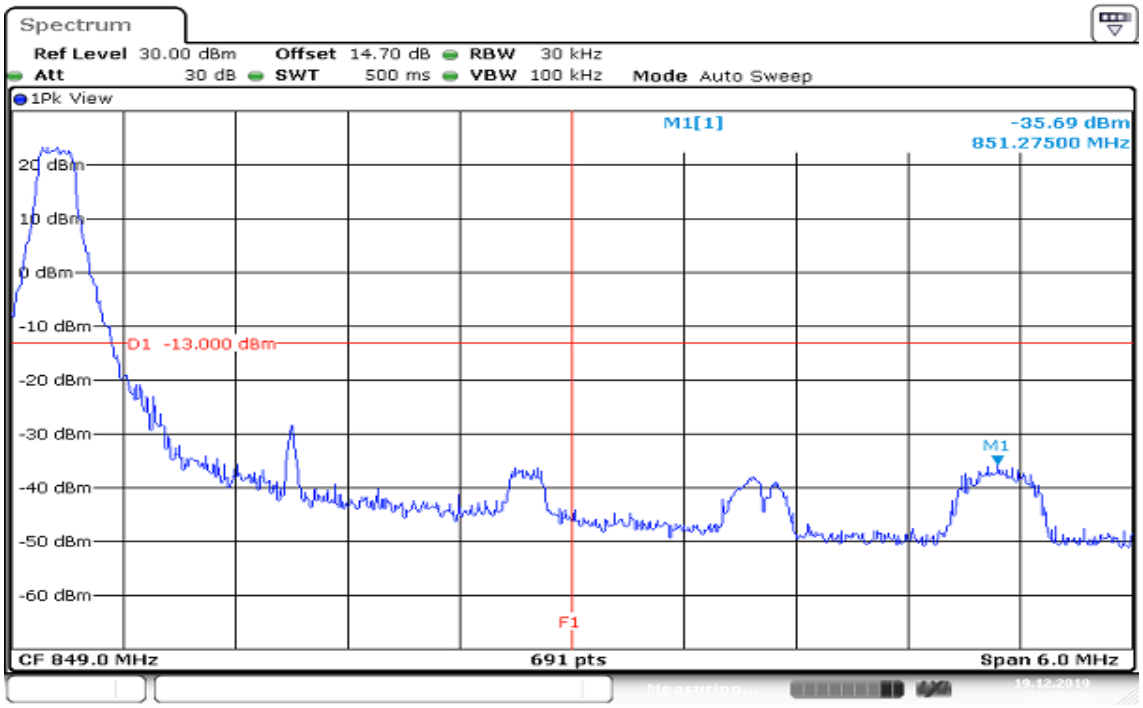
Date: 19.DEC.2019 13:32:24

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



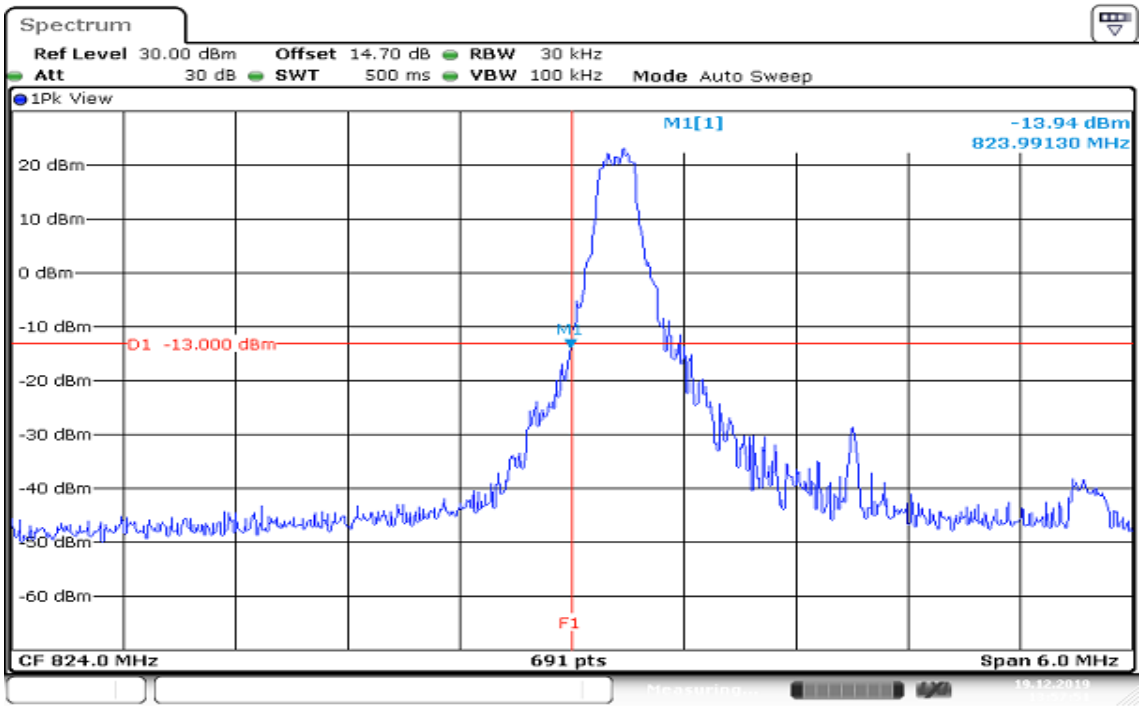
Date: 19.DEC.2019 13:55:16

HIGHER BAND EDGE



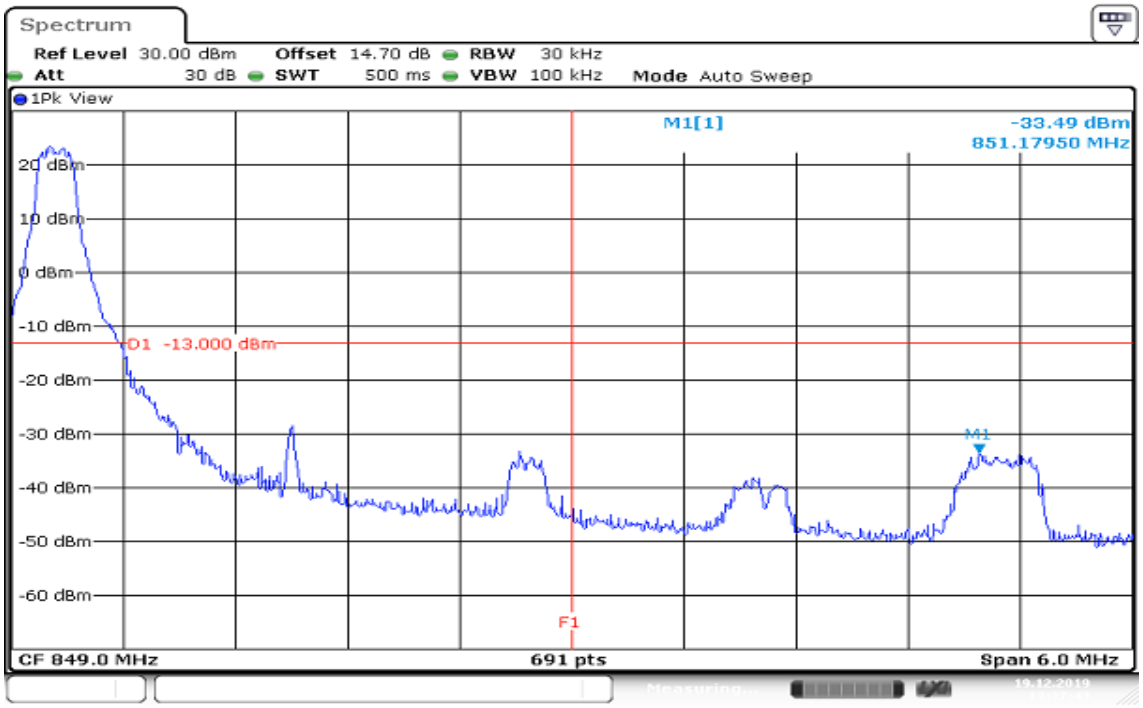
Date: 19.DEC.2019 13:39:37

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



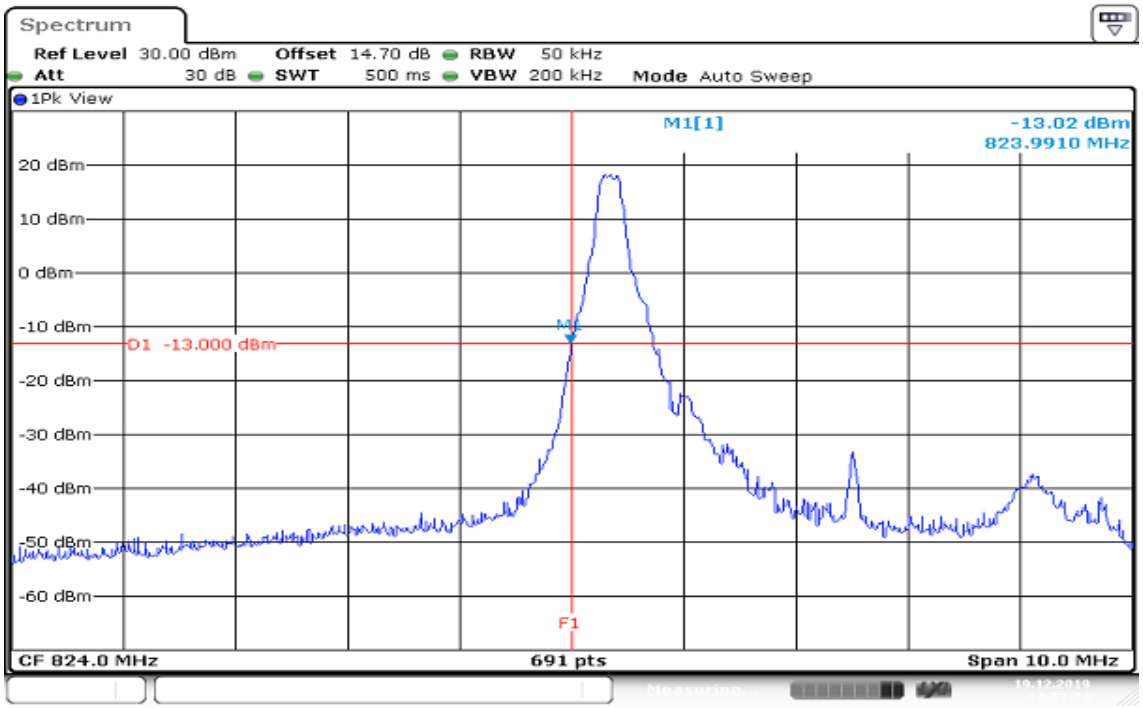
Date: 19.DEC.2019 13:57:52

HIGHER BAND EDGE



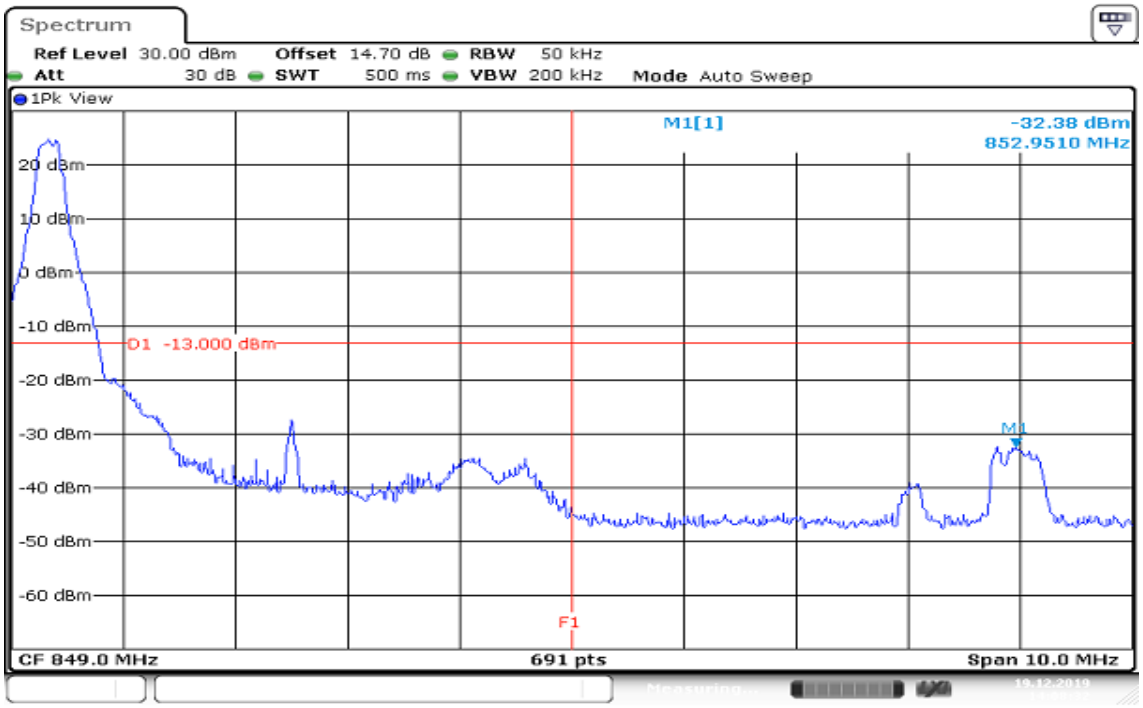
Date: 19.DEC.2019 13:37:43

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



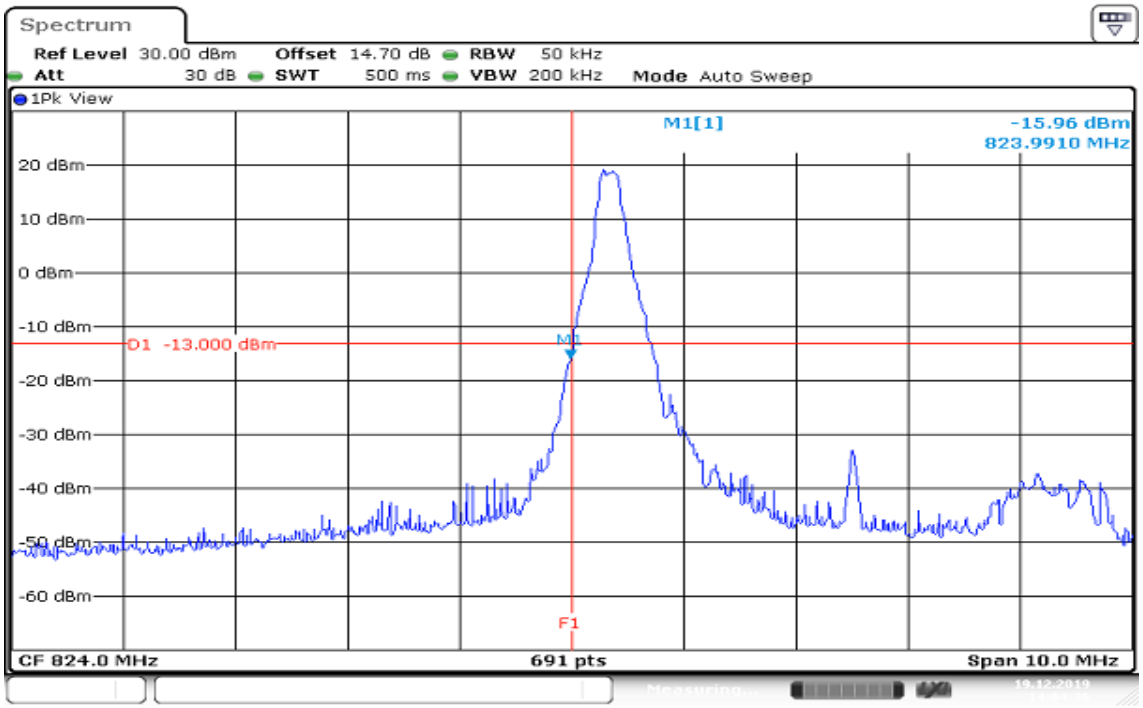
Date: 19.DEC.2019 14:03:35

HIGHER BAND EDGE



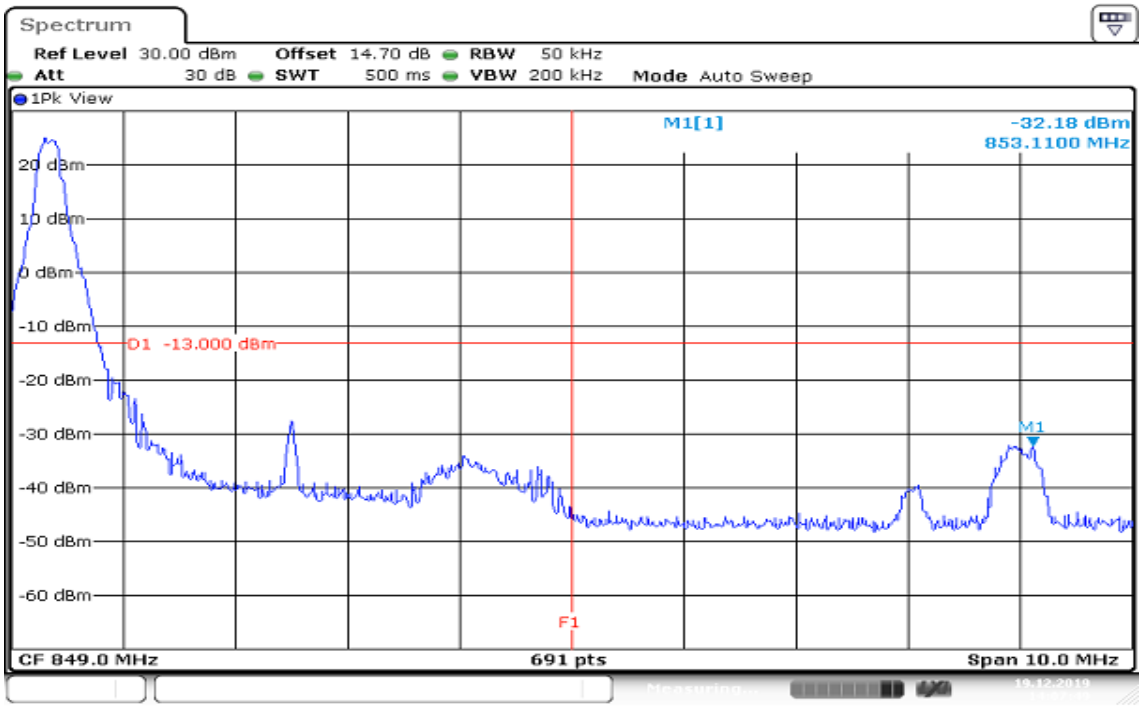
Date: 19.DEC.2019 14:08:33

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



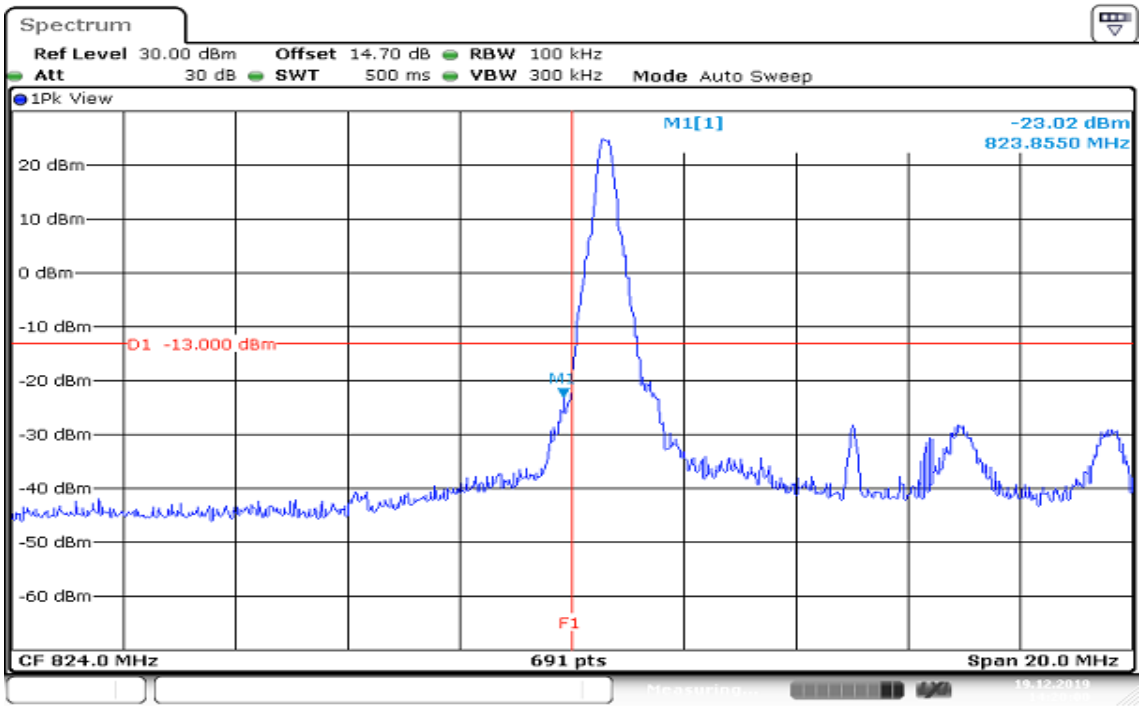
Date: 19.DEC.2019 14:04:37

HIGHER BAND EDGE



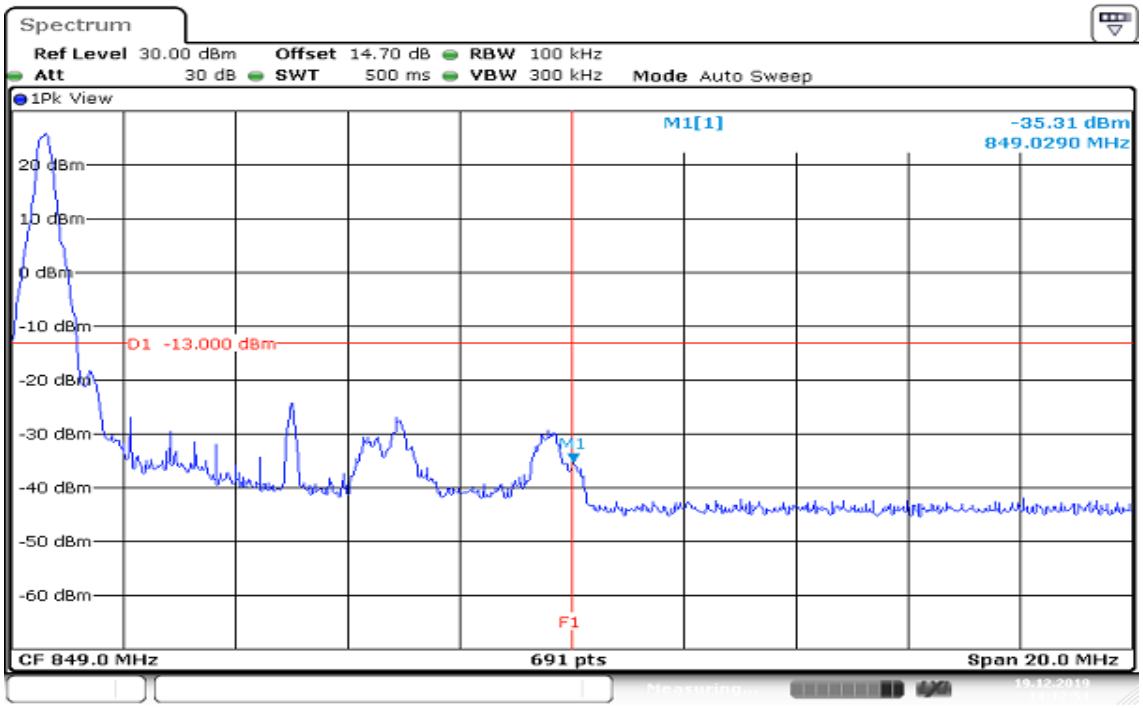
Date: 19.DEC.2019 14:07:49

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



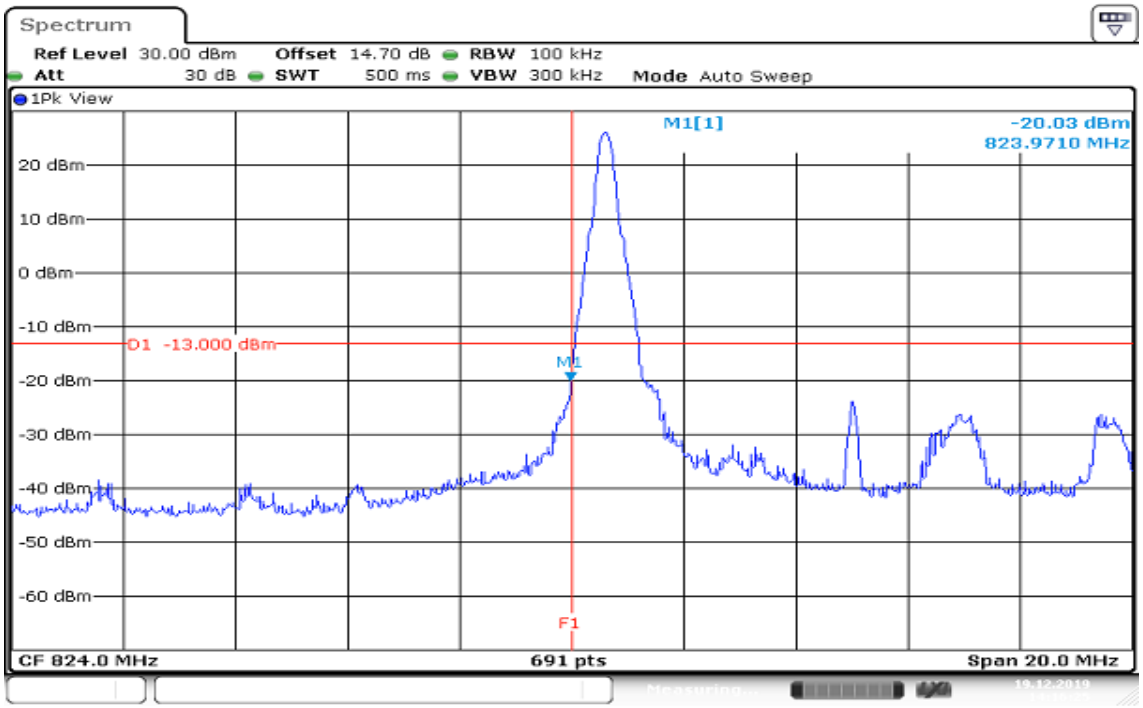
Date: 19.DEC.2019 14:20:01

HIGHER BAND EDGE



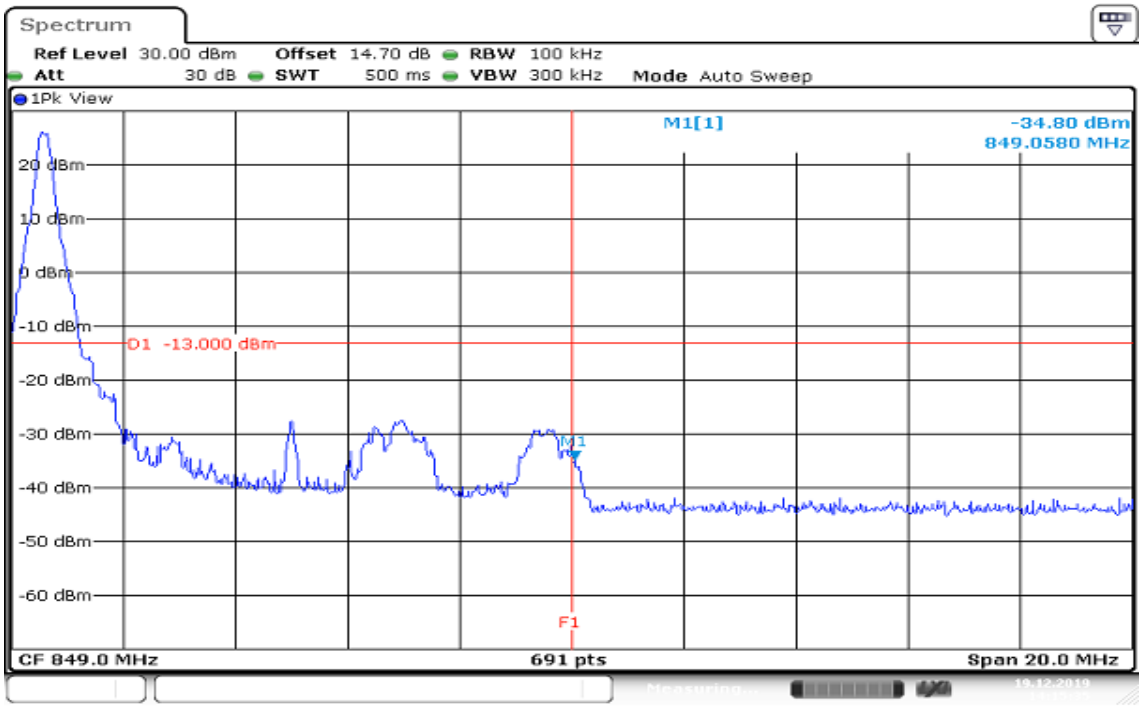
Date: 19.DEC.2019 14:12:51

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



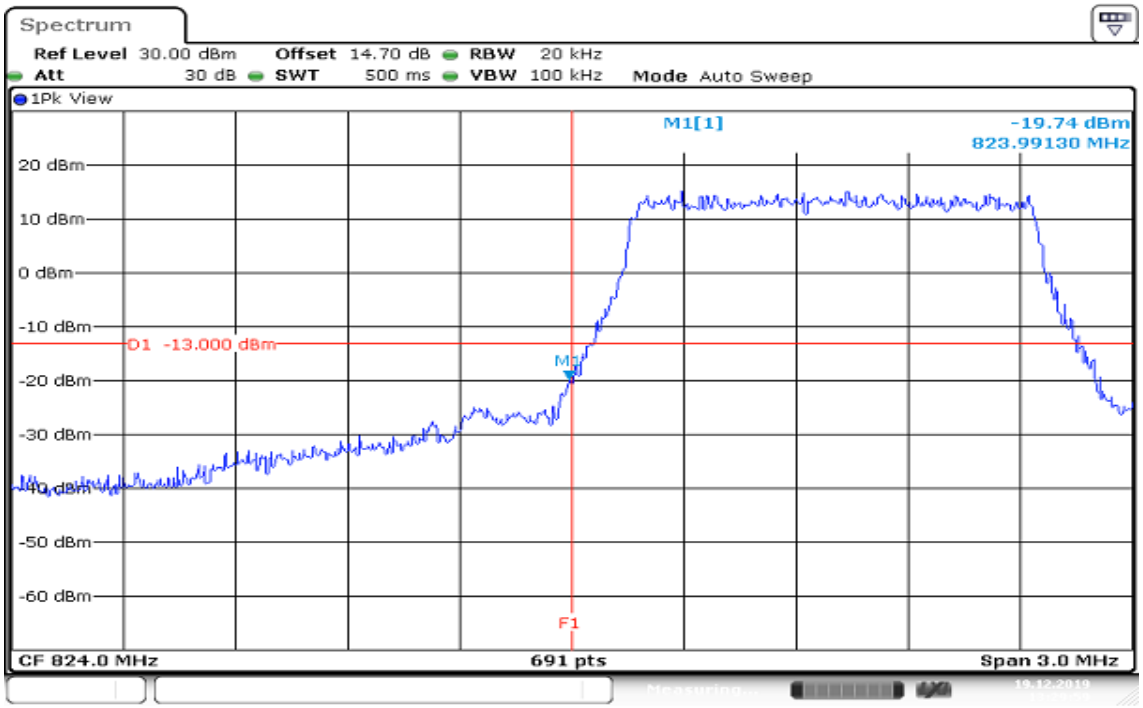
Date: 19.DEC.2019 14:16:26

HIGHER BAND EDGE



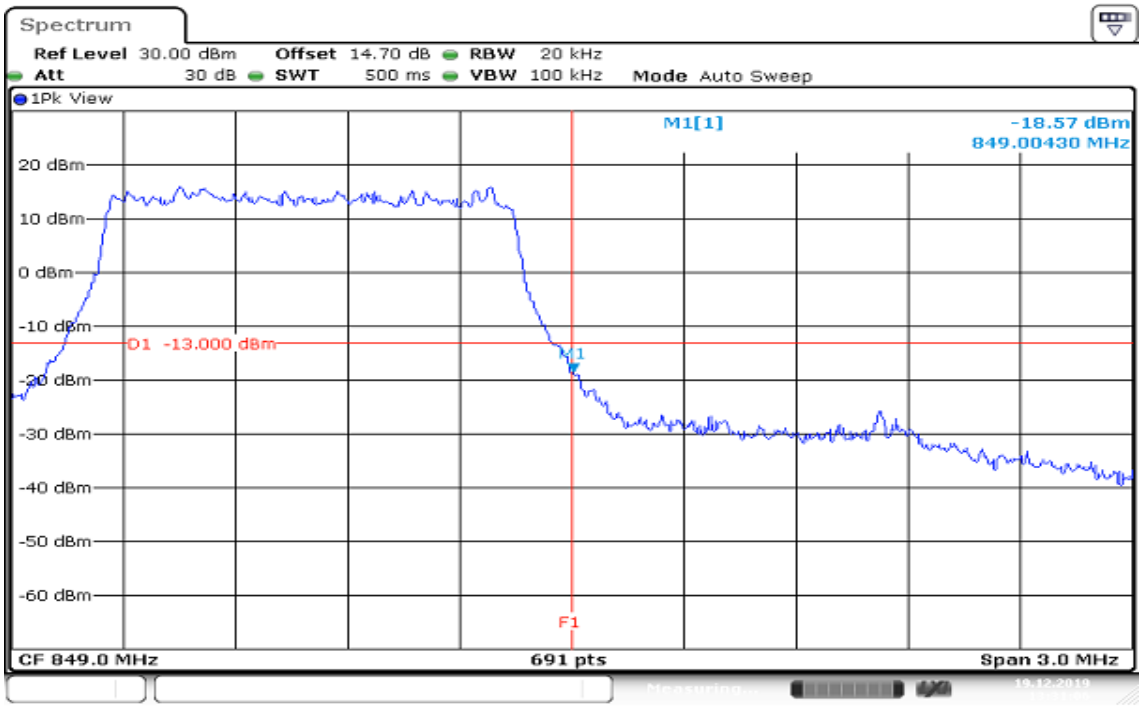
Date: 19.DEC.2019 14:15:35

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



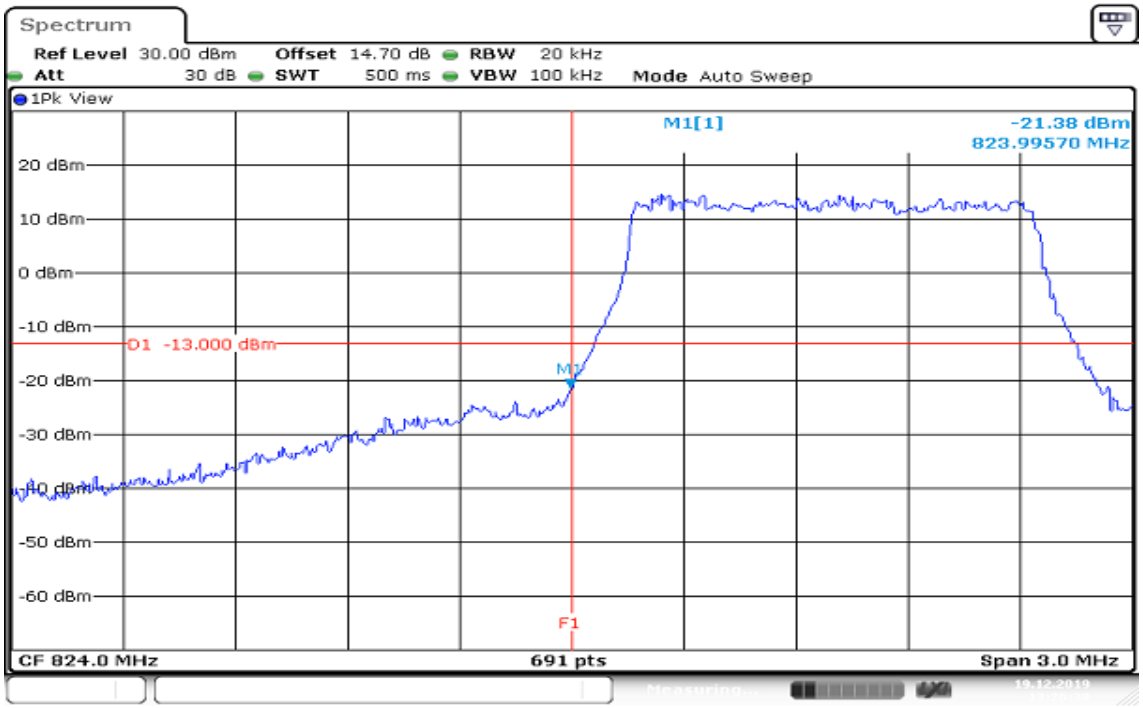
Date: 19.DEC.2019 13:29:59

HIGHER BAND EDGE



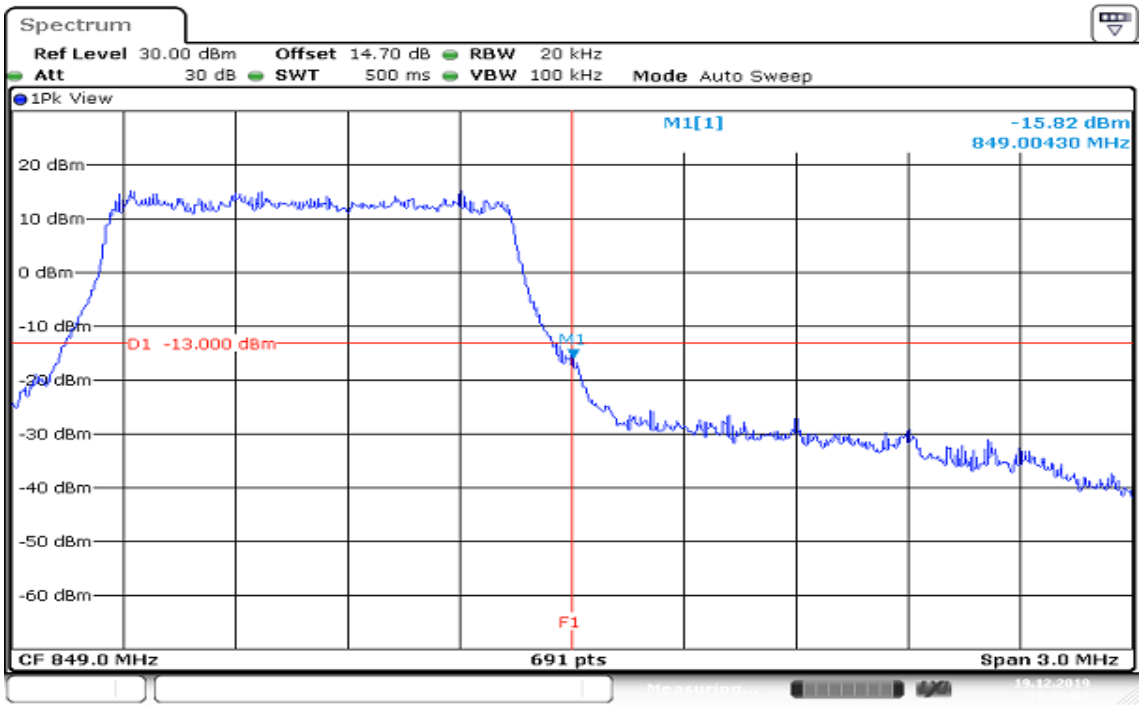
Date: 19.DEC.2019 13:31:07

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



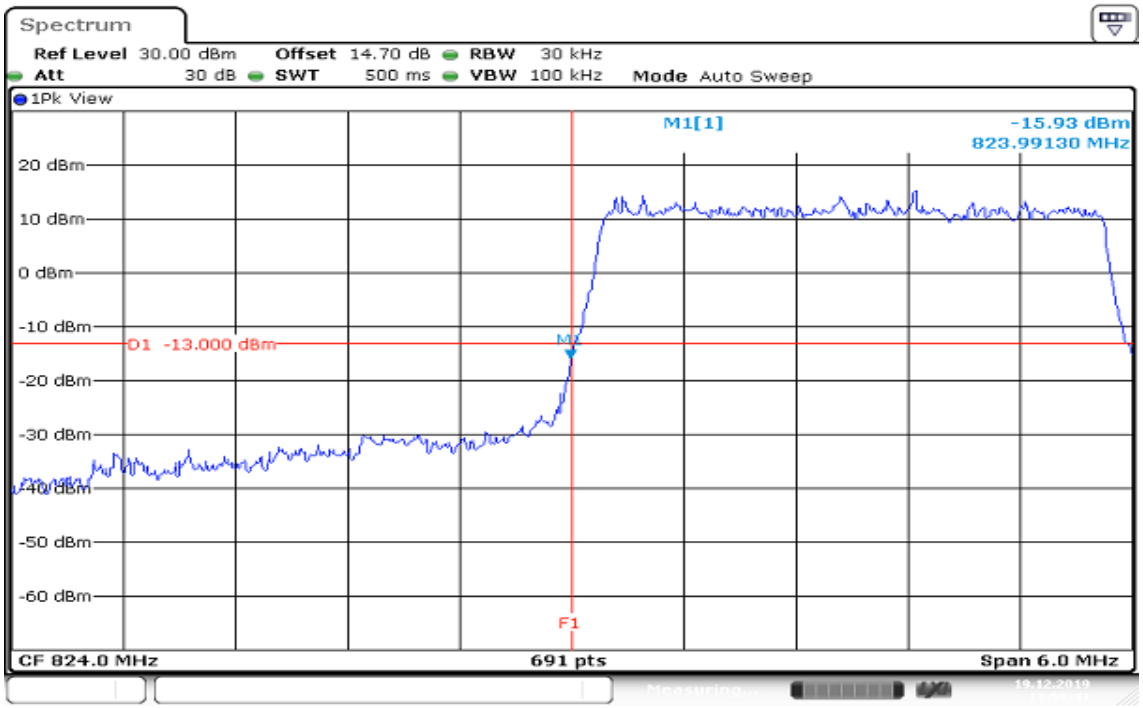
Date: 19.DEC.2019 13:26:38

HIGHER BAND EDGE



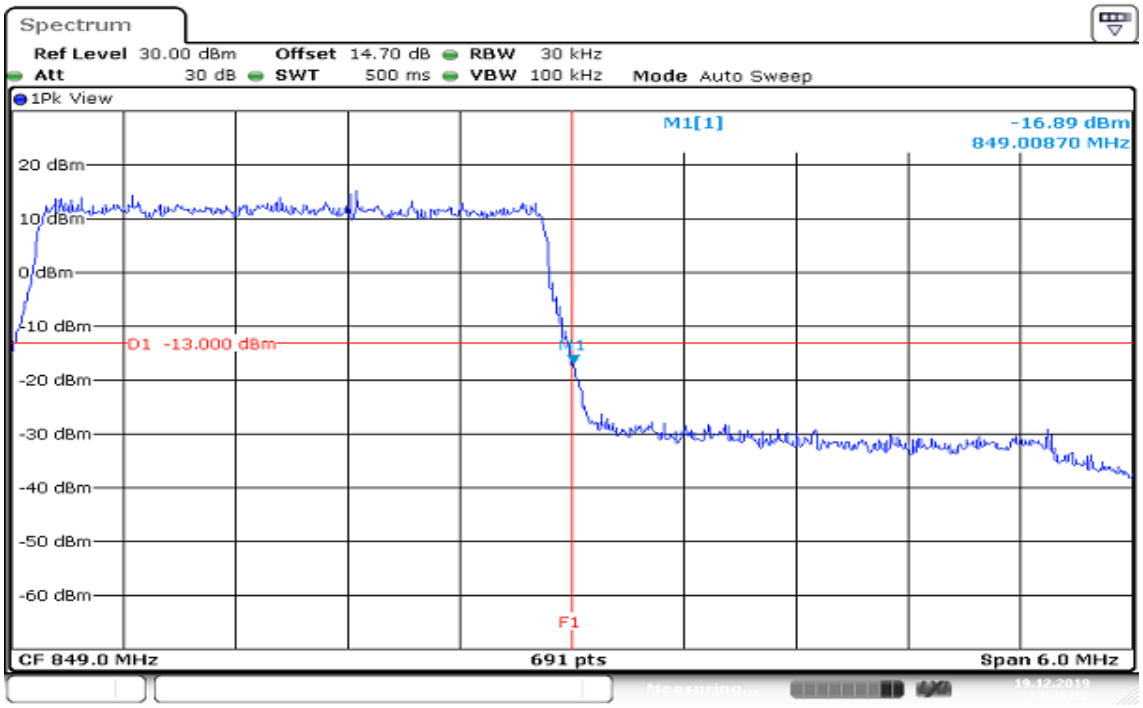
Date: 19.DEC.2019 13:33:04

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



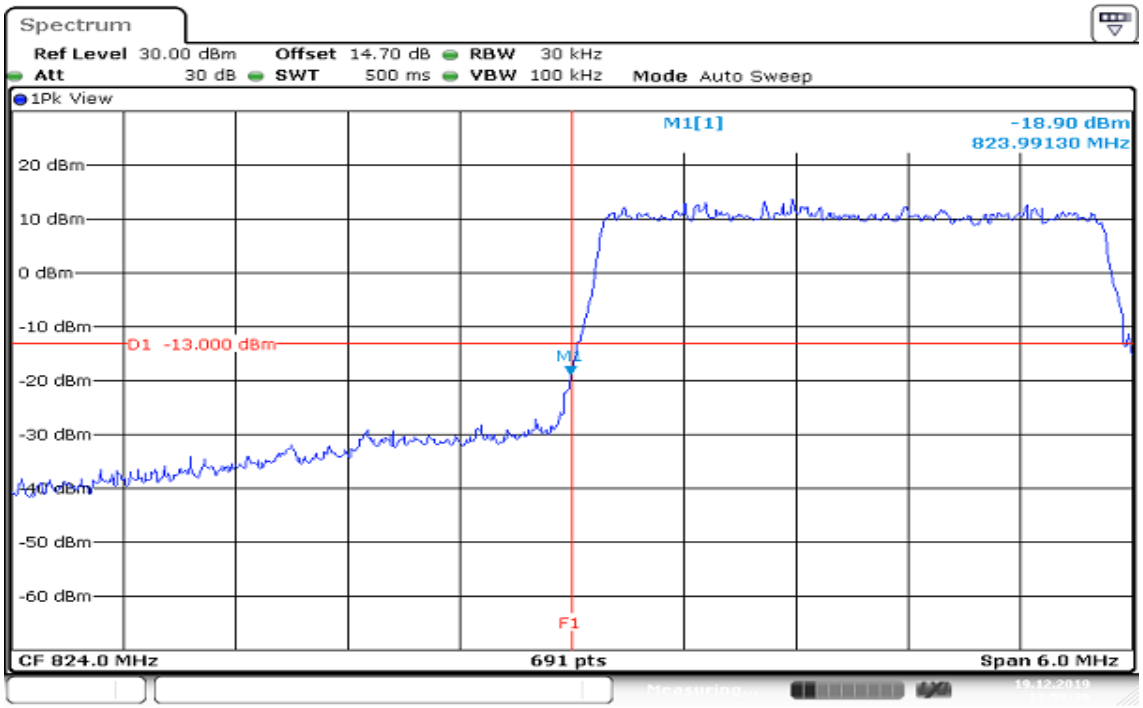
Date: 19.DEC.2019 13:59:42

HIGHER BAND EDGE



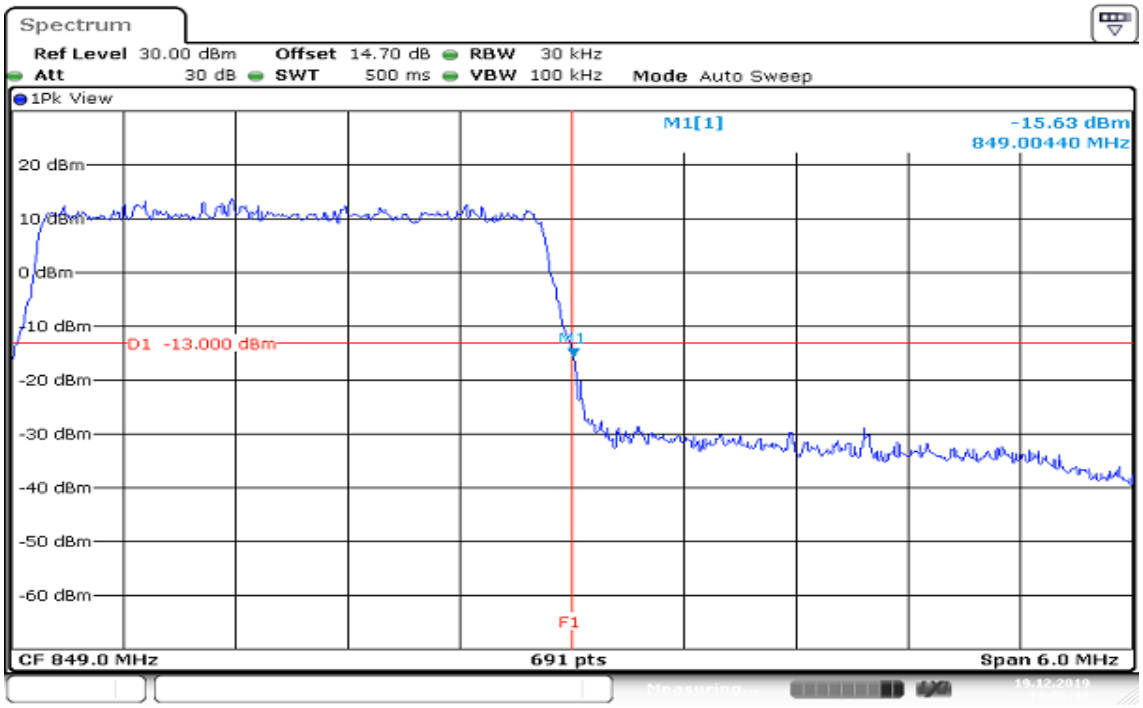
Date: 19.DEC.2019 13:40:13

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



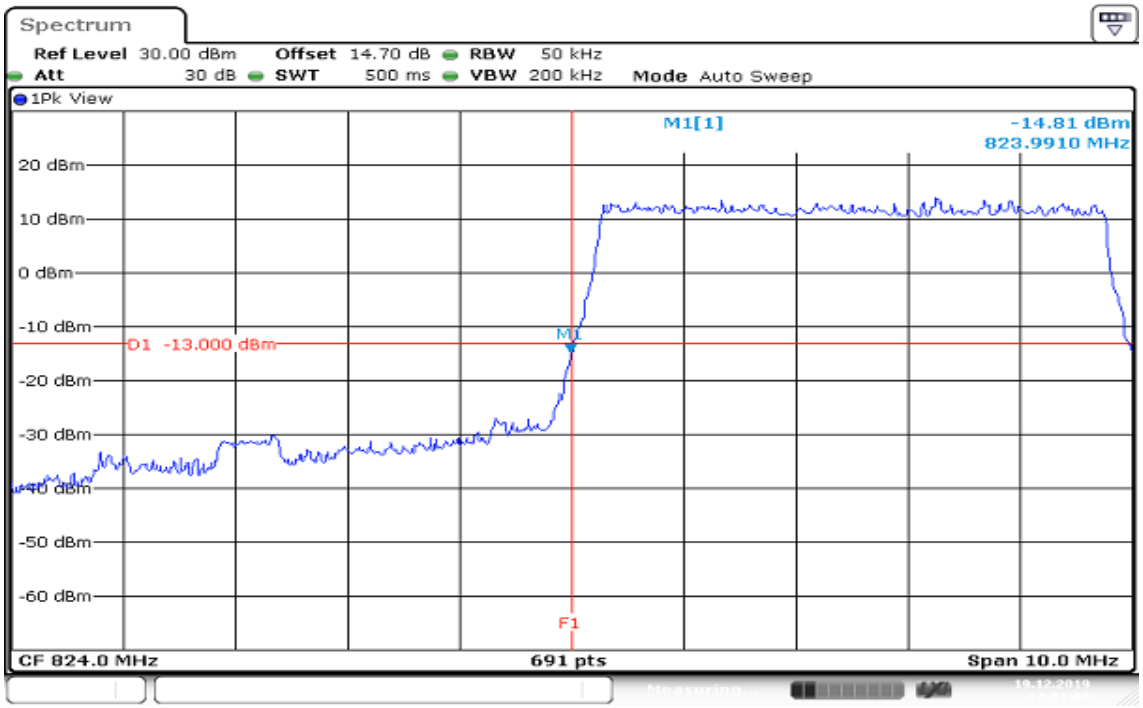
Date: 19.DEC.2019 13:58:37

HIGHER BAND EDGE



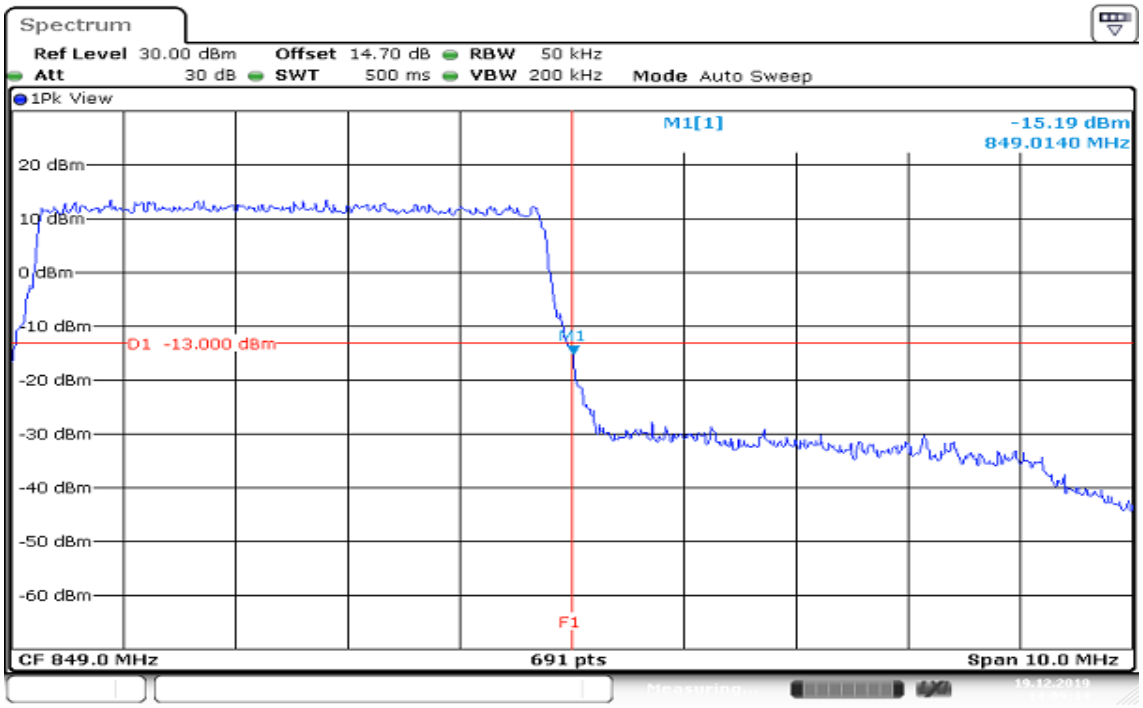
Date: 19.DEC.2019 13:36:48

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



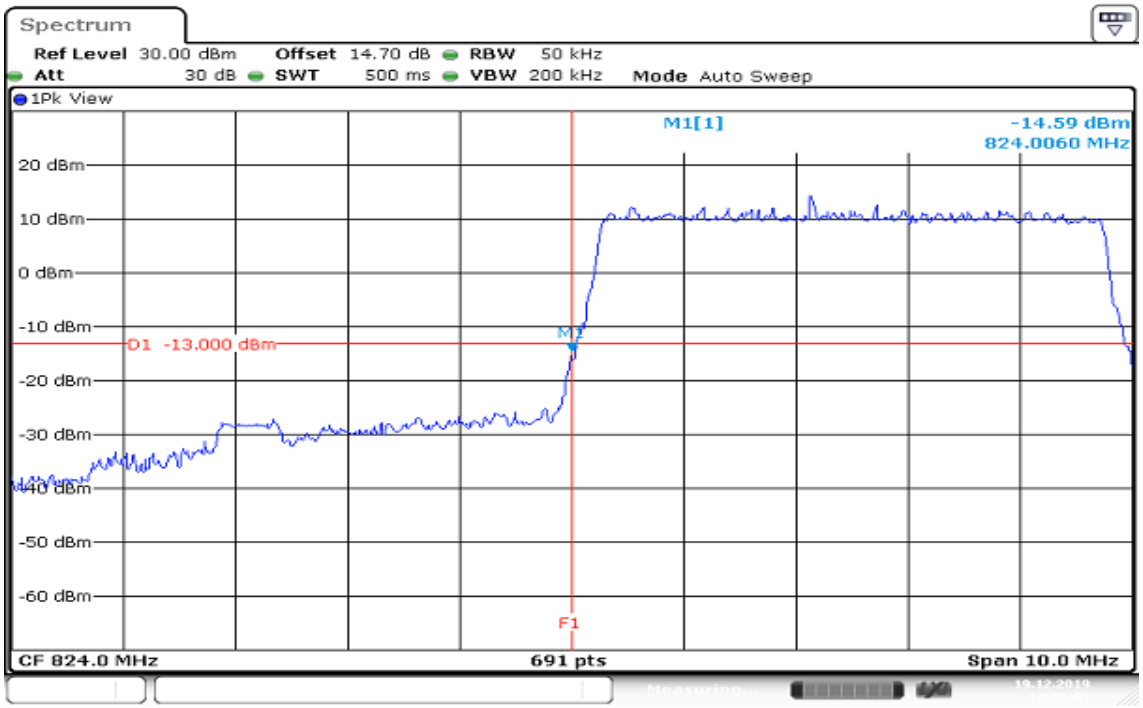
Date: 19.DEC.2019 14:01:01

HIGHER BAND EDGE



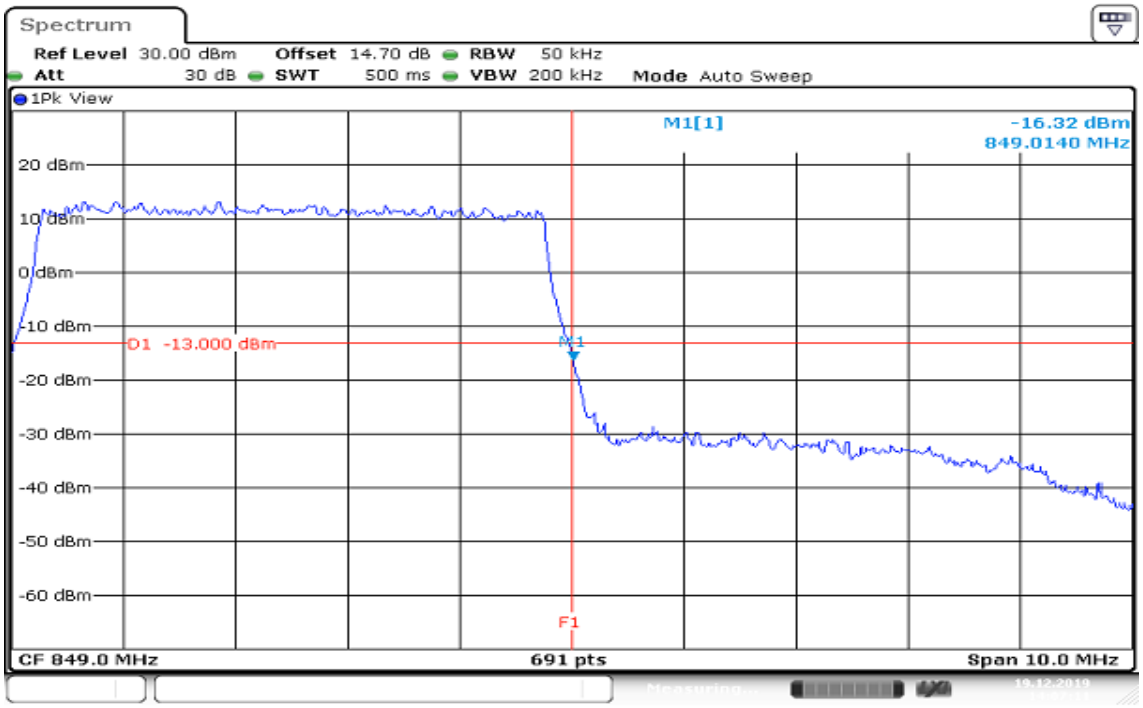
Date: 19.DEC.2019 14:09:15

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



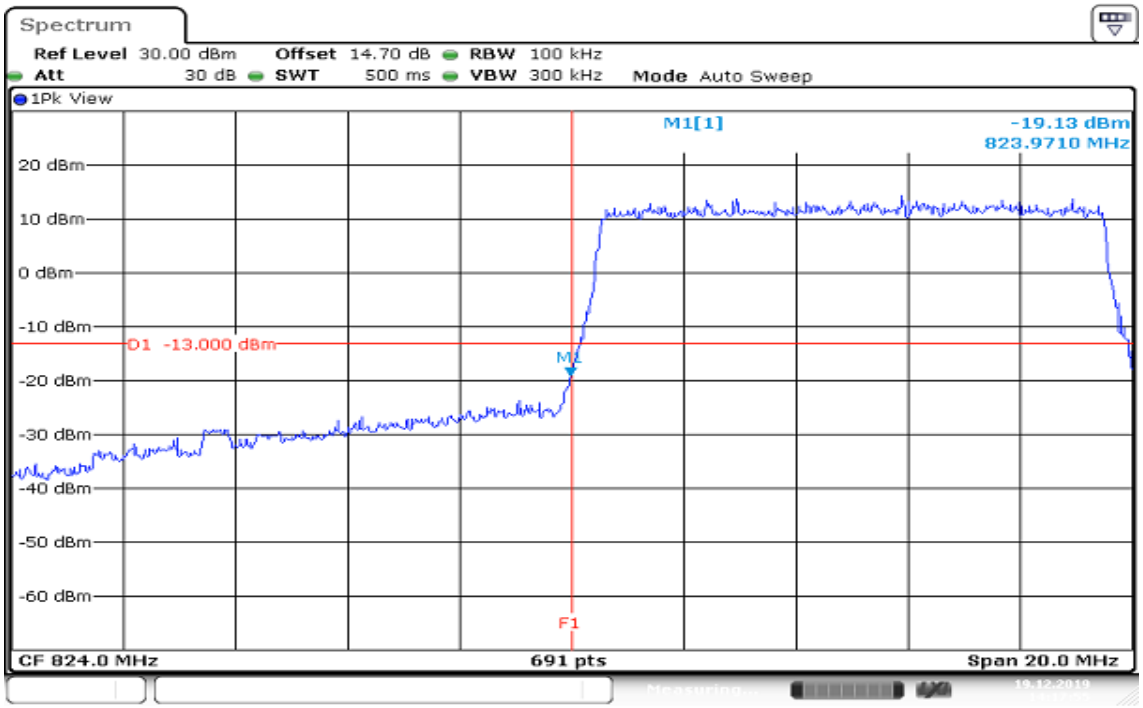
Date: 19.DEC.2019 14:05:06

HIGHER BAND EDGE



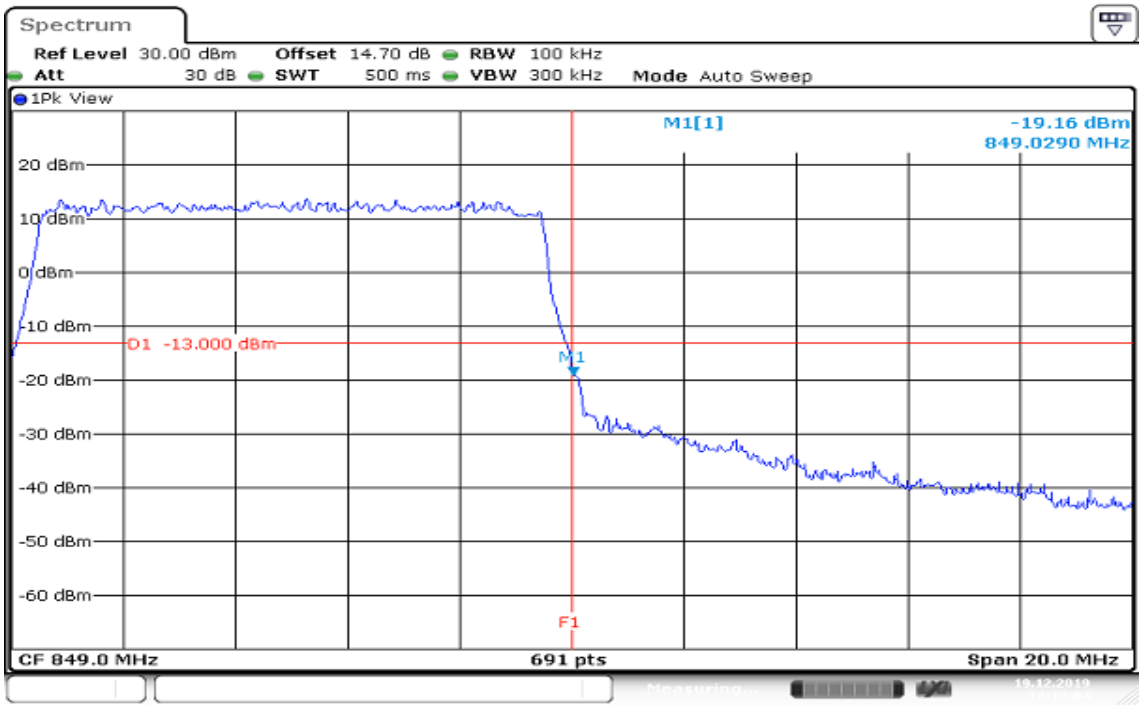
Date: 19.DEC.2019 14:07:12

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



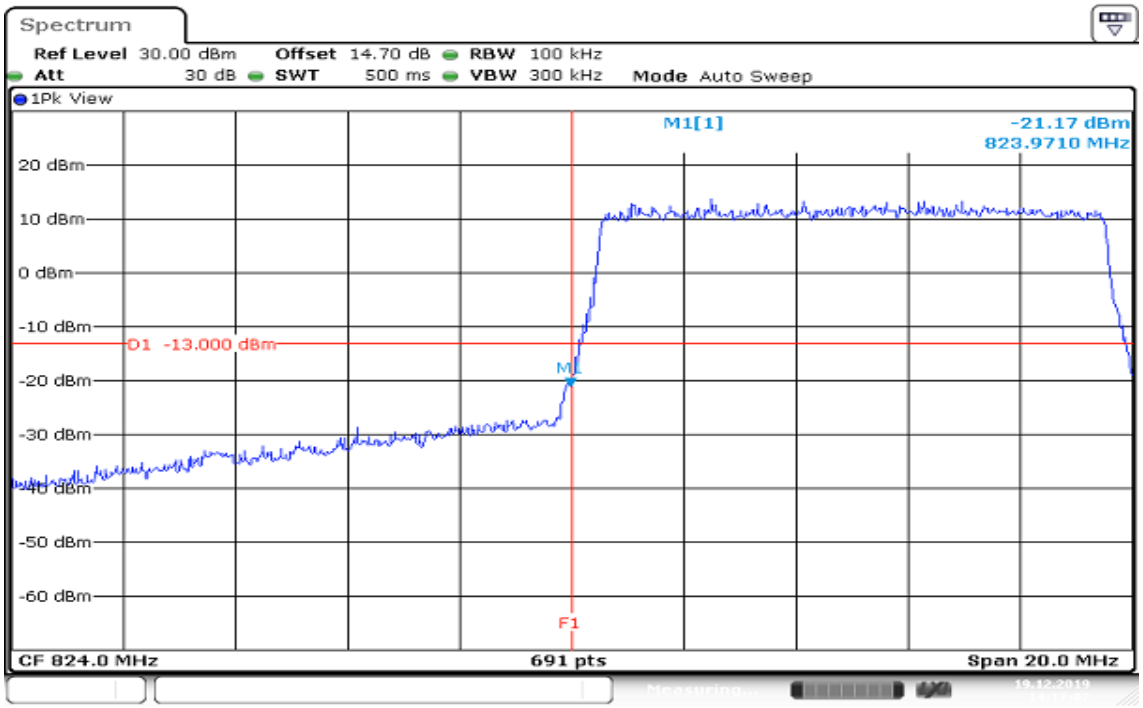
Date: 19.DEC.2019 14:17:55

HIGHER BAND EDGE



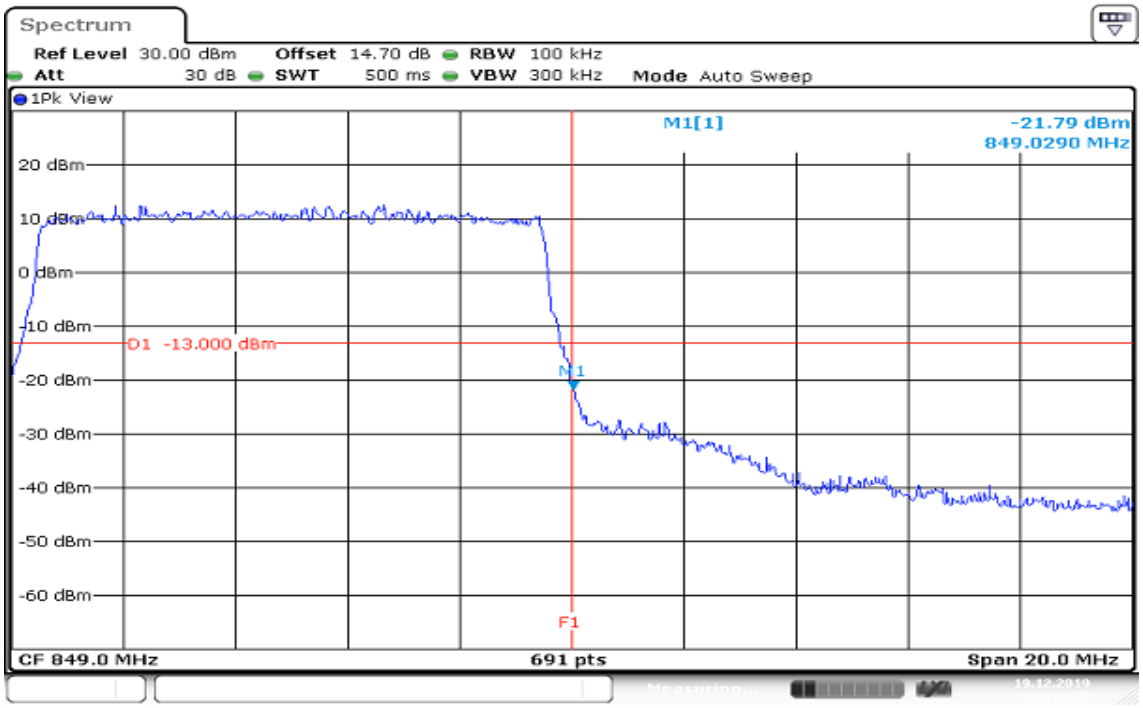
Date: 19.DEC.2019 14:12:04

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 log10(P) dB. The limit of emission equal to –13dBm

Test Procedures

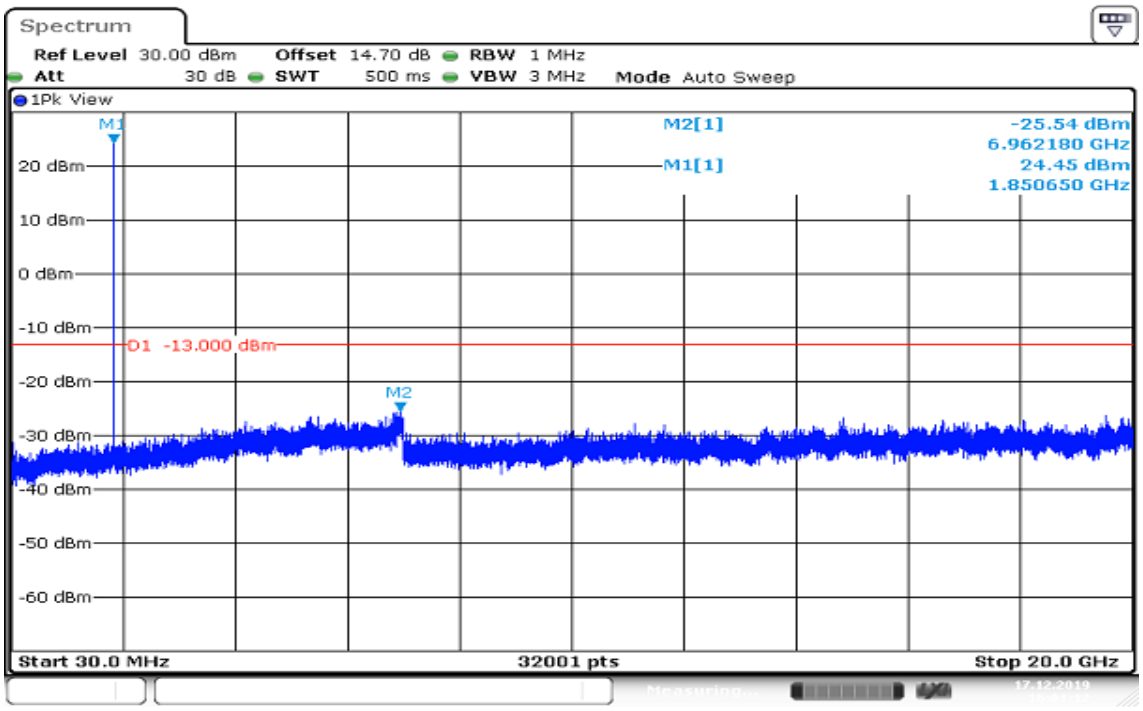
1. According to KDB 971168 D01,
2. The EUT was connect to spectrum analyzer and call box.
3. The RF output of EUT was connected to the spectrum analyzer.
4. Set the spectrum analyzer , RBW=1MHz, VBW=3MHz.
5. Record the maximum spurious emission.
6. The fundamental frequency should be excluded against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

Test Results

LTE Band 2

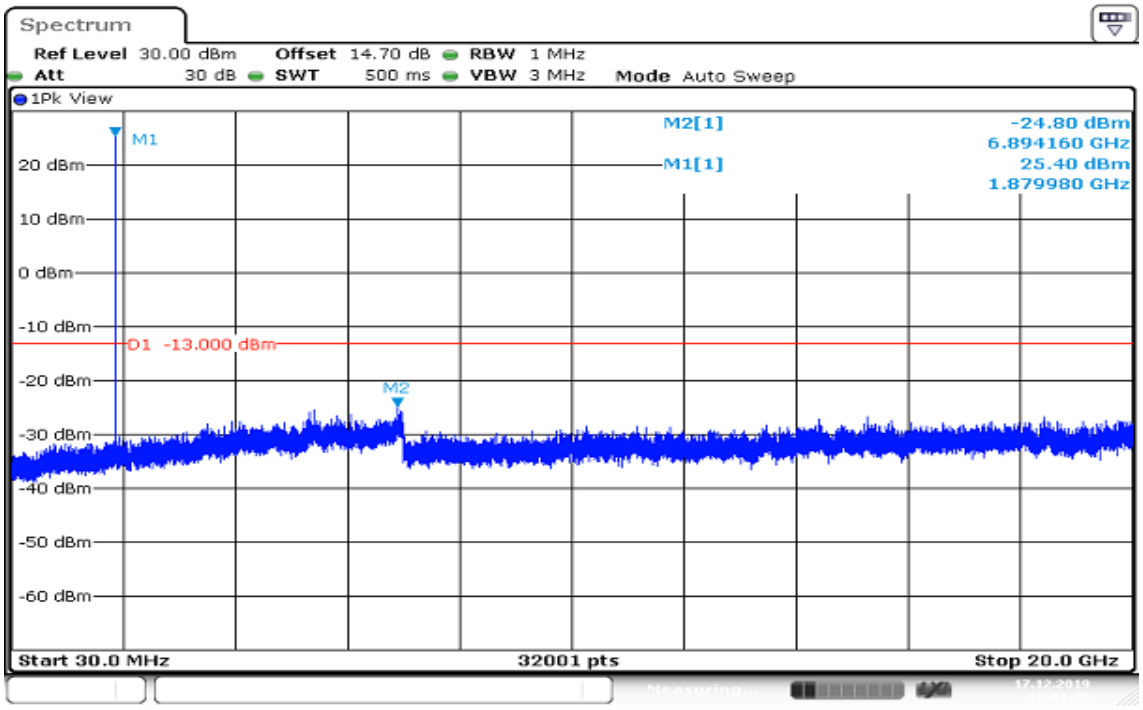
CHANNEL BANDWIDTH: 1.4MHz / QPSK / 1RB

CH Low



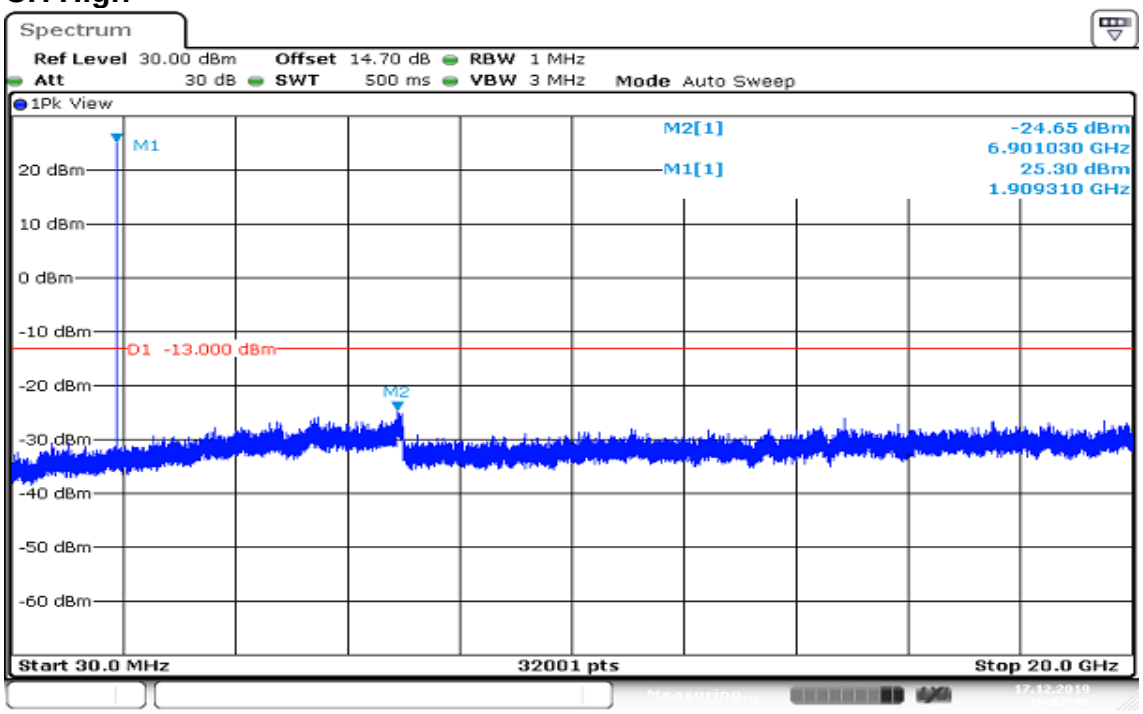
Date: 17.DEC.2019 16:01:13

CH Mid



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

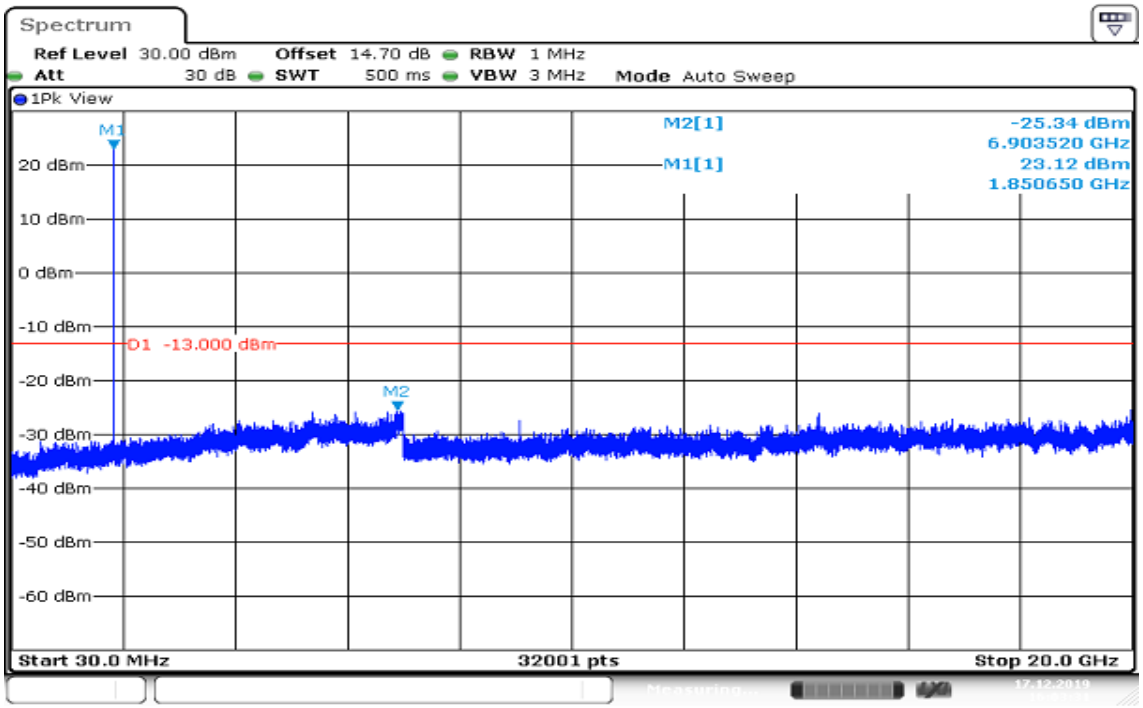
CH High



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

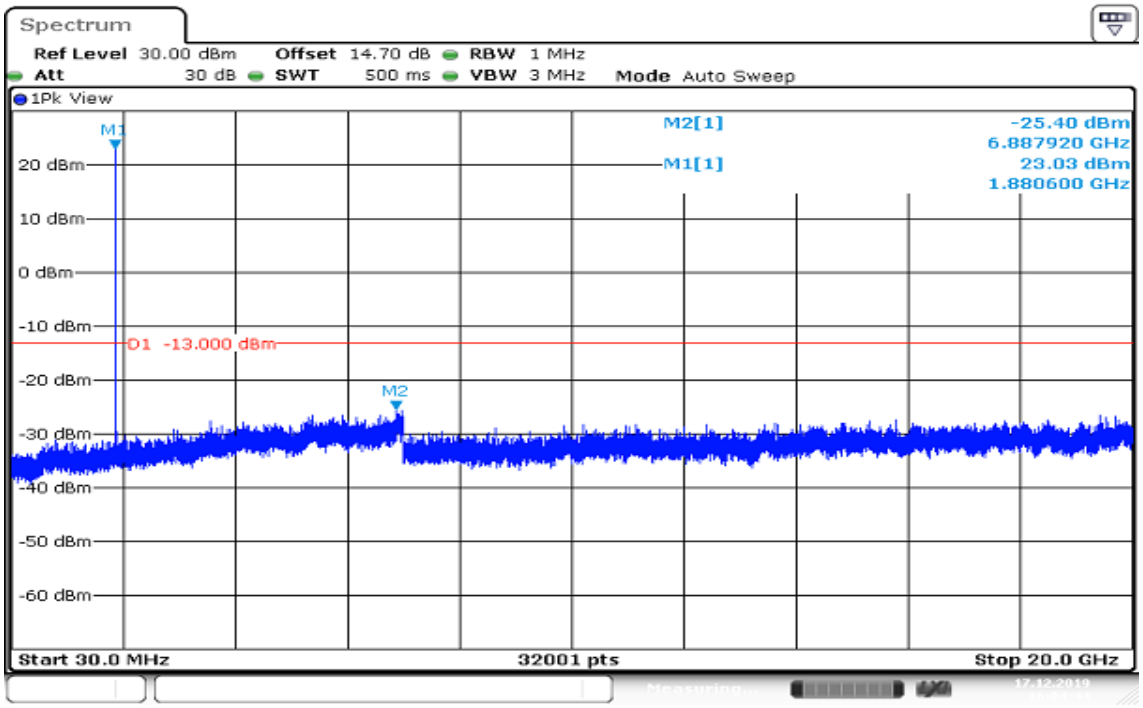
CHANNEL BANDWIDTH: 3MHz / QPSK / 1RB

CH Low



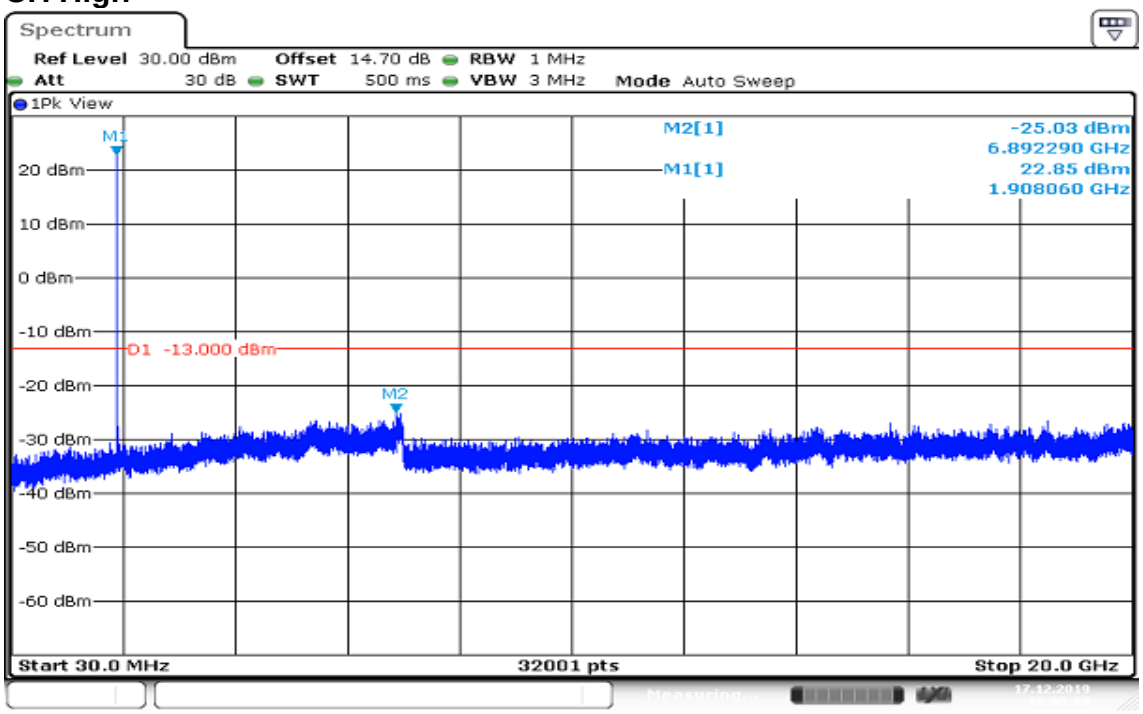
Date: 17.DEC.2019 16:03:32

CH Mid



Date: 17.DEC.2019 16:04:44

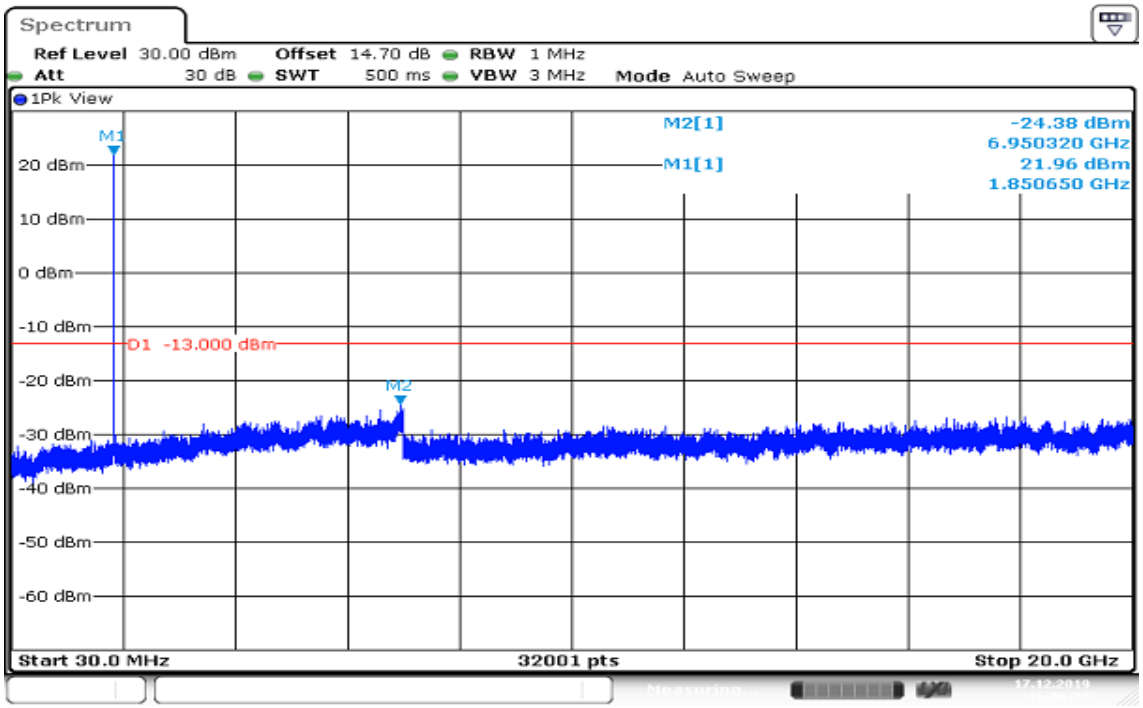
CH High



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

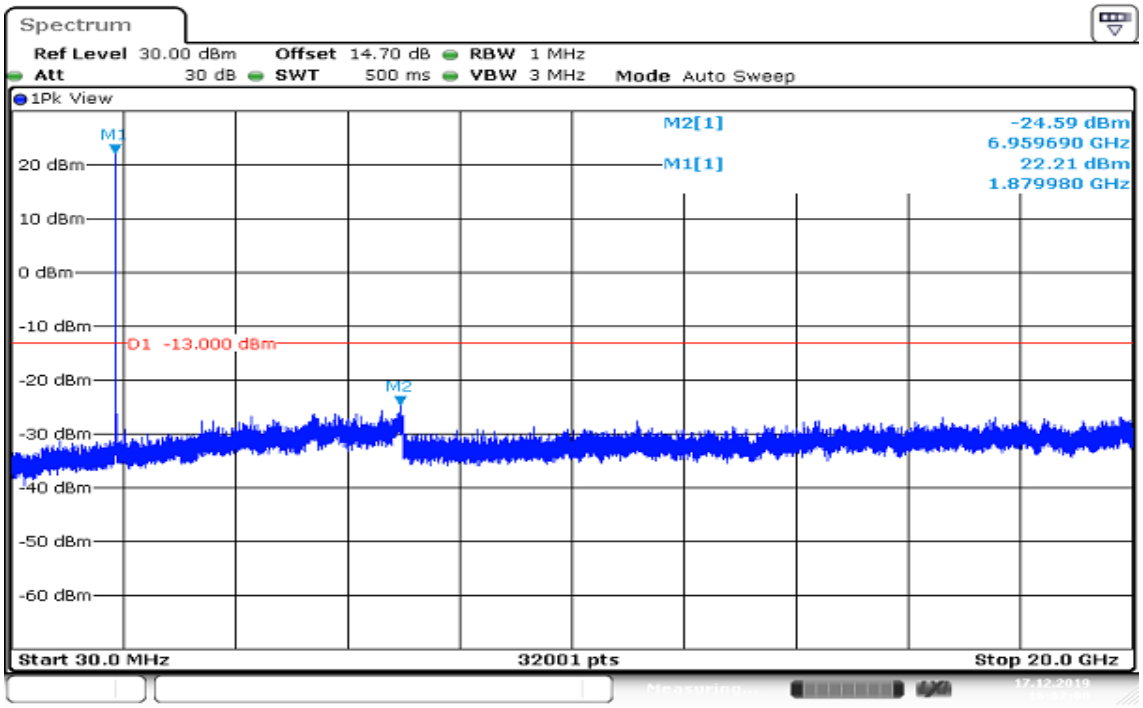
CHANNEL BANDWIDTH: 5MHz / QPSK / 1RB

CH Low



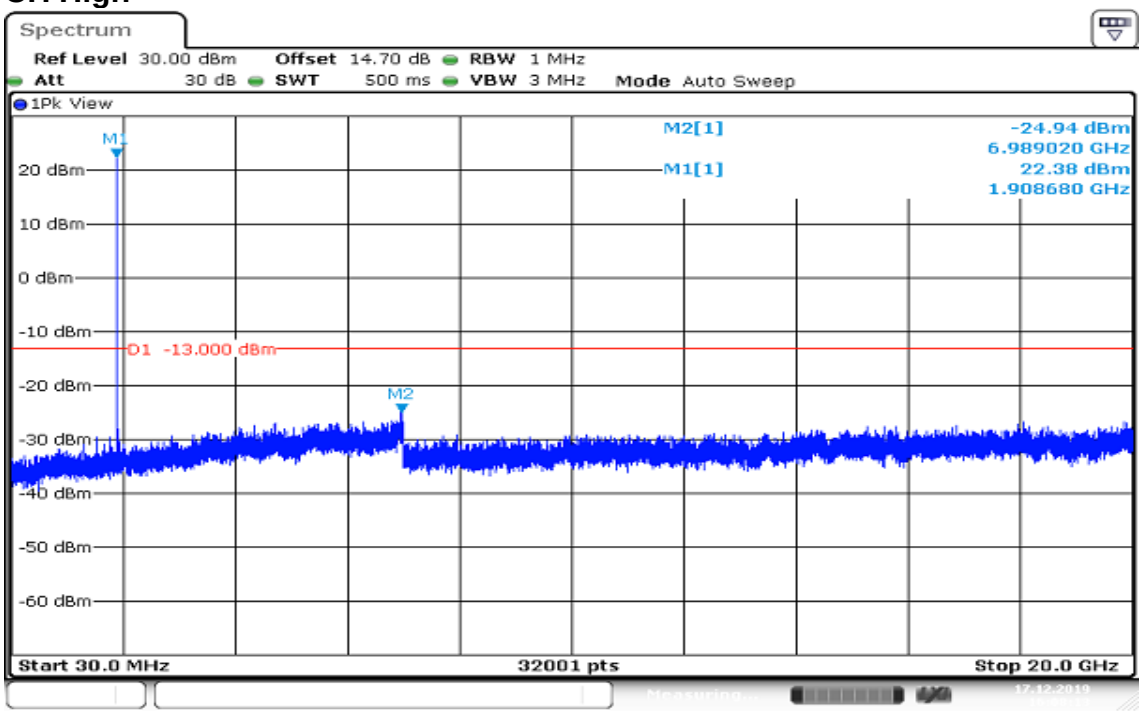
Date: 17.DEC.2019 16:06:36

CH Mid



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

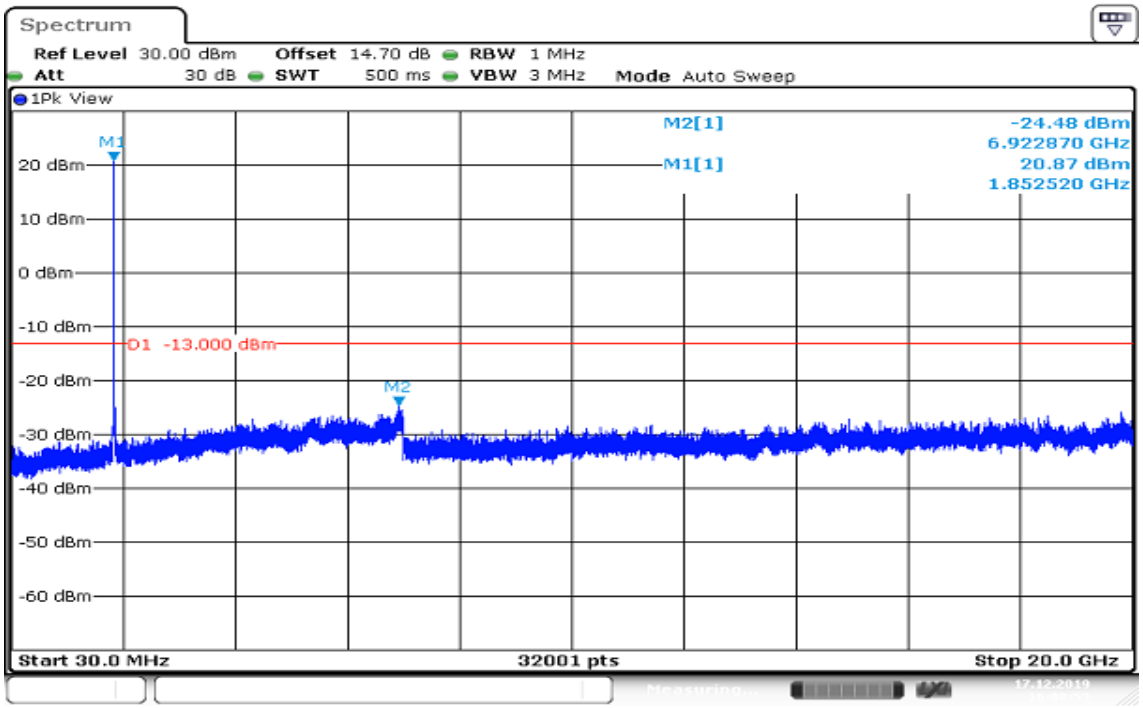
CH High



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

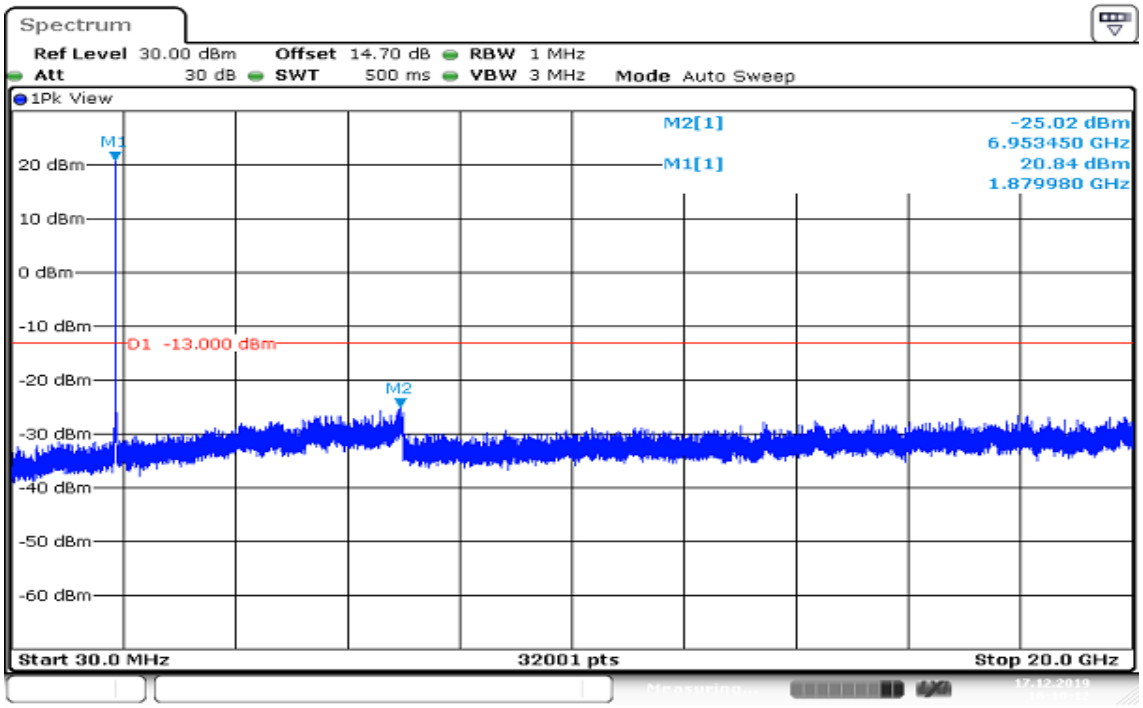
CHANNEL BANDWIDTH: 10MHz / QPSK / 1RB

CH Low



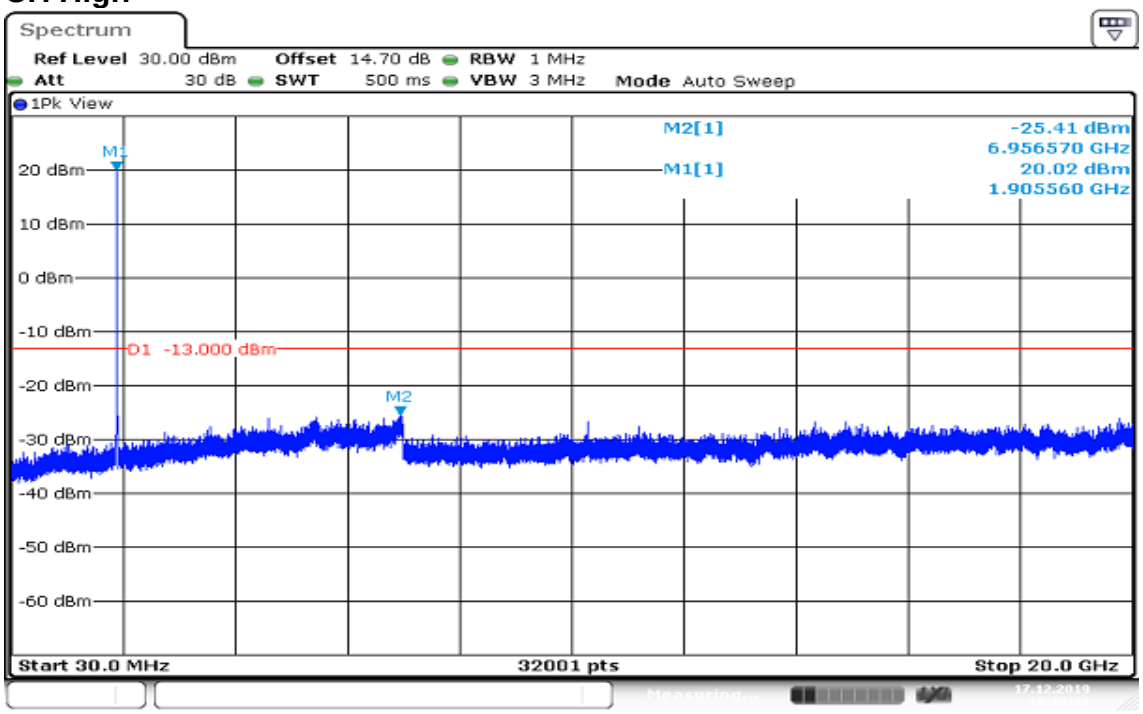
Date: 17.DEC.2019 16:08:53

CH Mid



Date: 17.DEC.2019 16:10:12

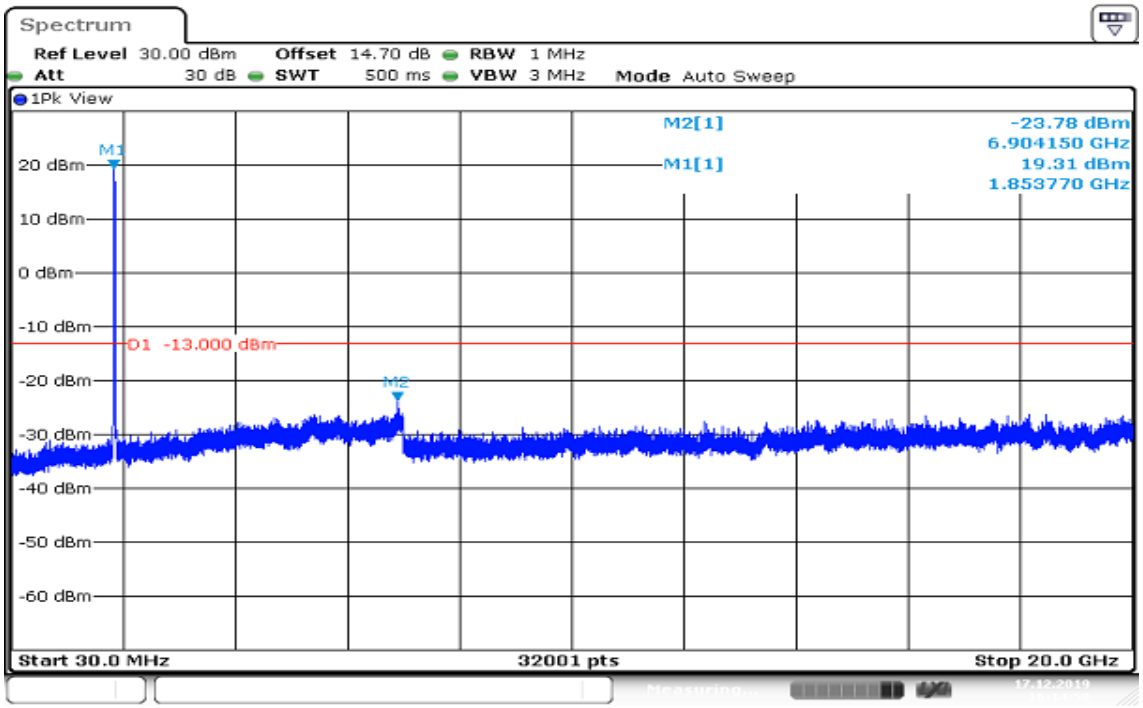
CH High



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

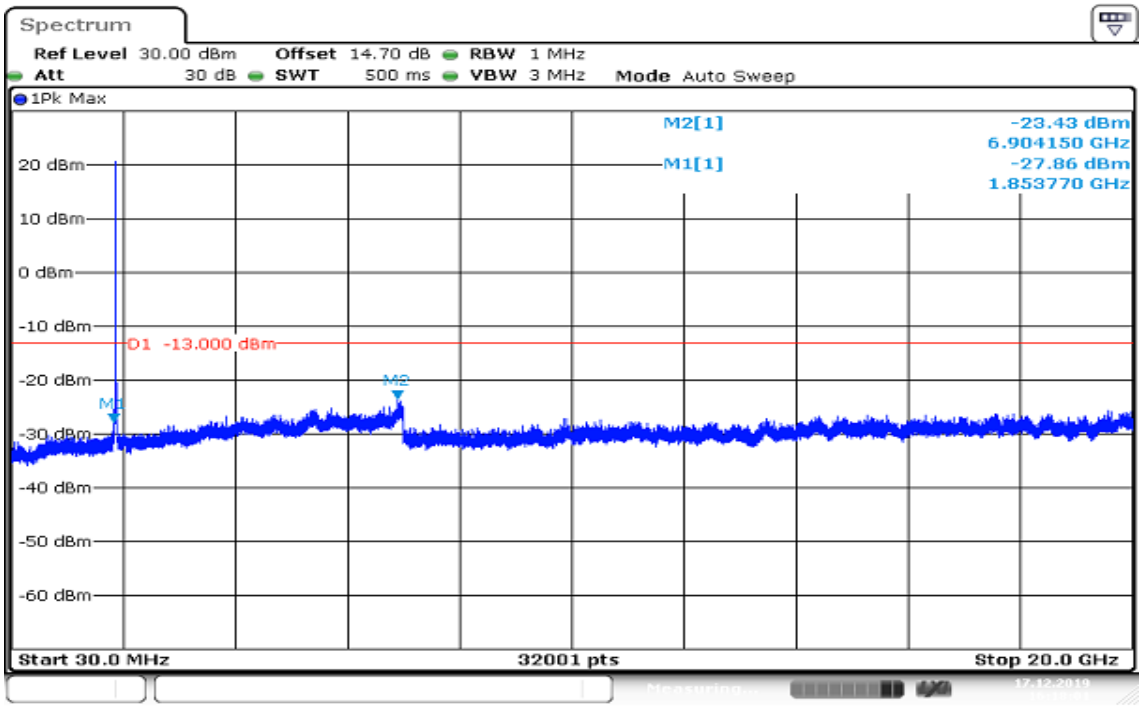
CHANNEL BANDWIDTH: 15MHz / QPSK / 1RB

CH Low



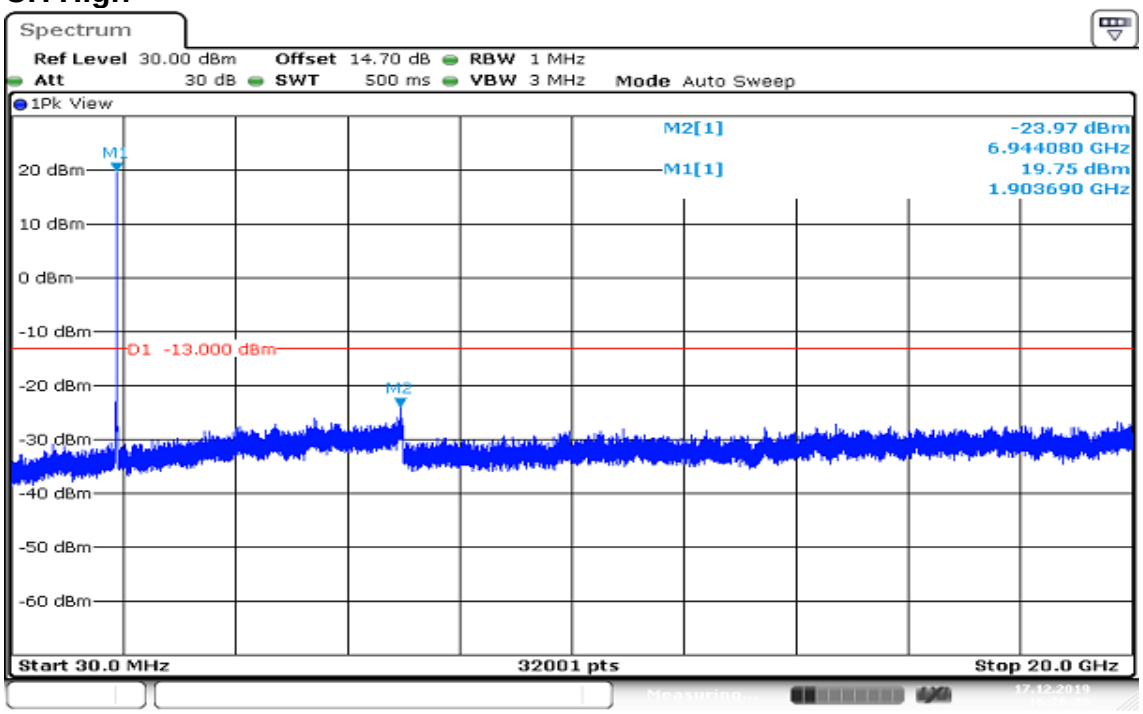
Date: 17.DEC.2019 16:14:59

CH Mid



Date: 17.DEC.2019 16:18:02

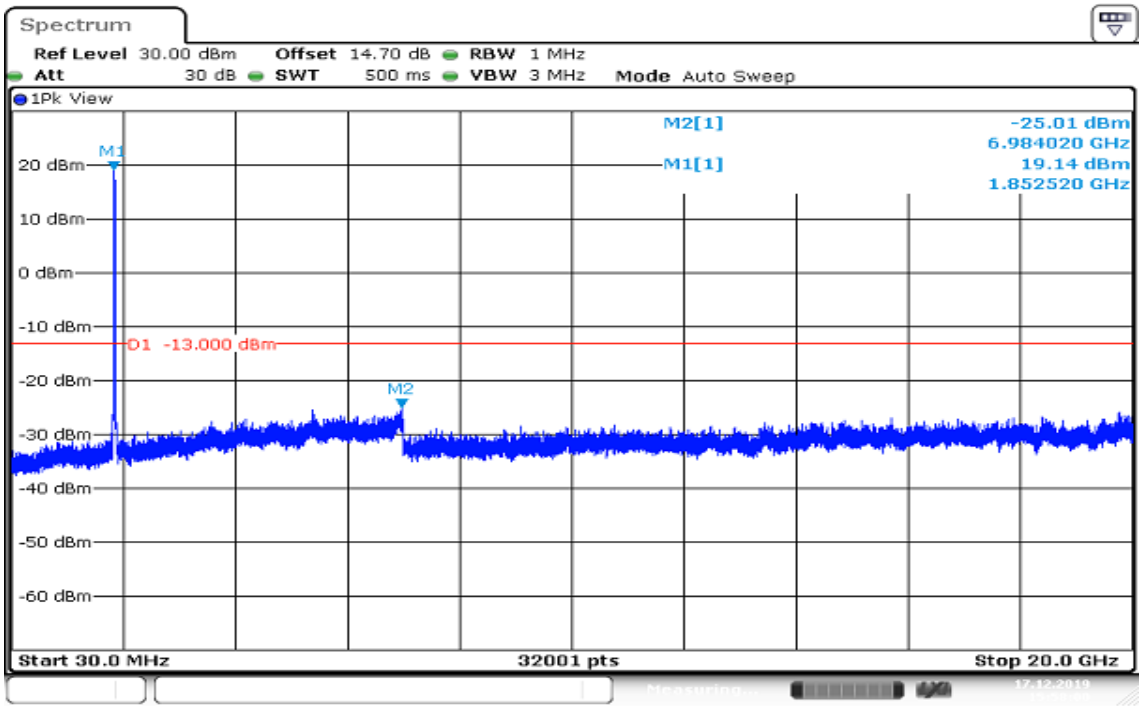
CH High



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

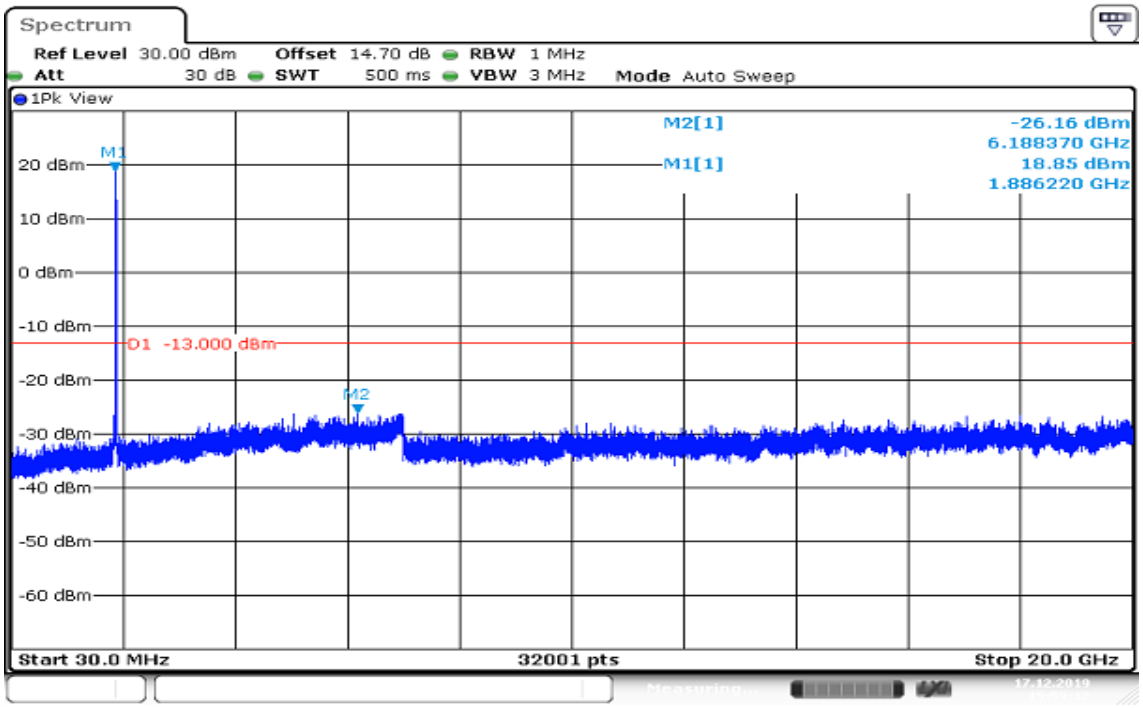
CHANNEL BANDWIDTH: 20MHz / QPSK / 1RB

CH Low



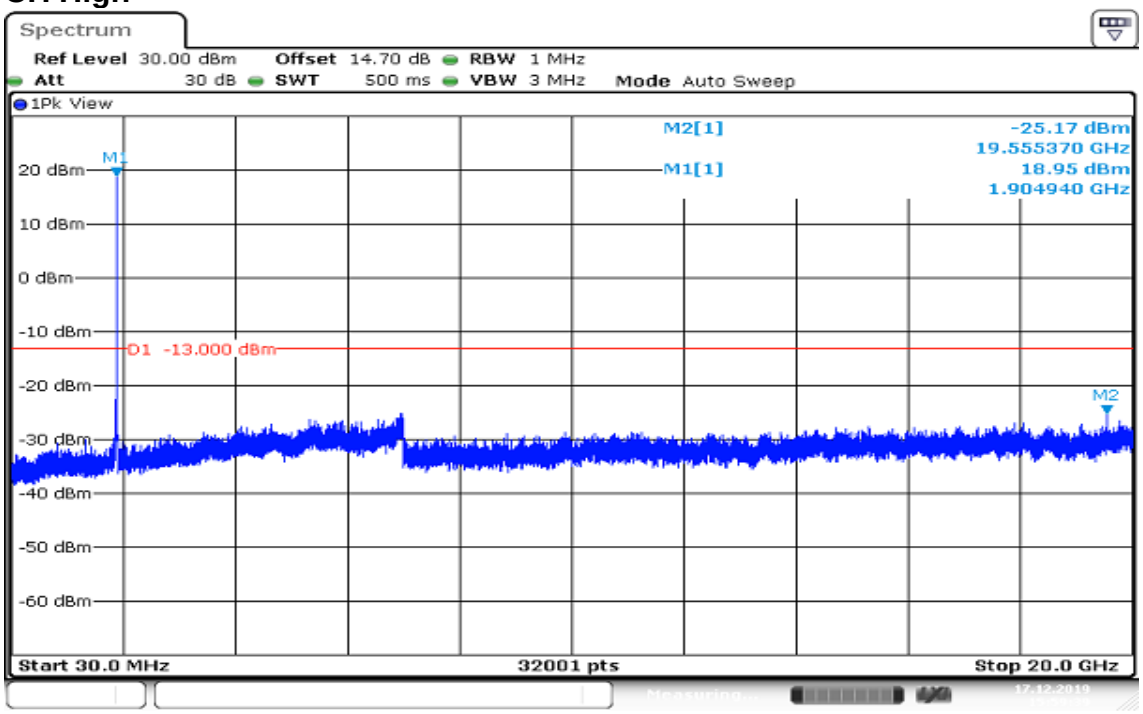
Date: 17.DEC.2019 15:58:00

CH Mid



Date: 17.DEC.2019 15:59:13

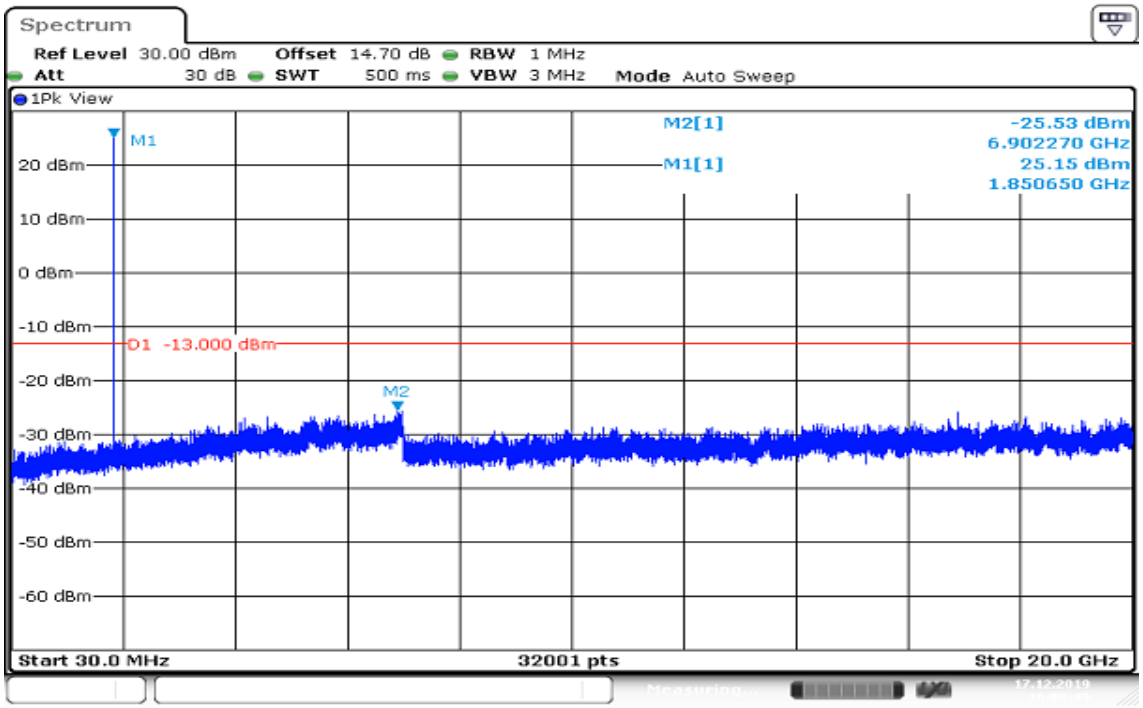
CH High



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

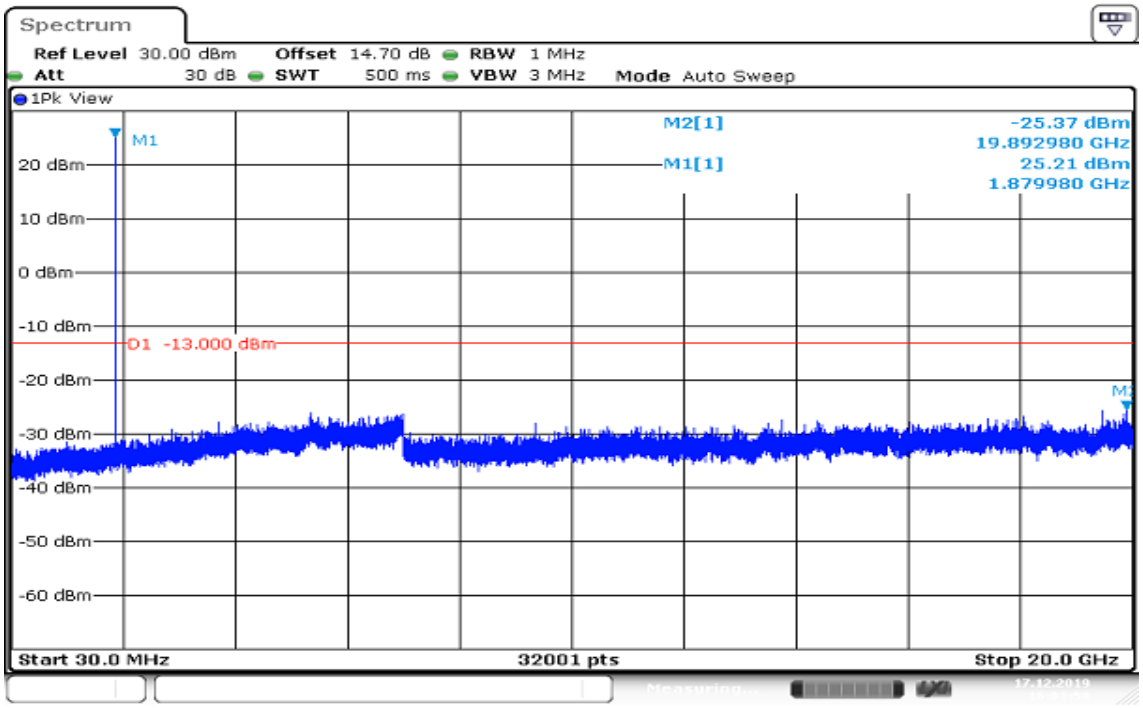
CHANNEL BANDWIDTH: 1.4MHz / 16QAM / 1RB

CH Low



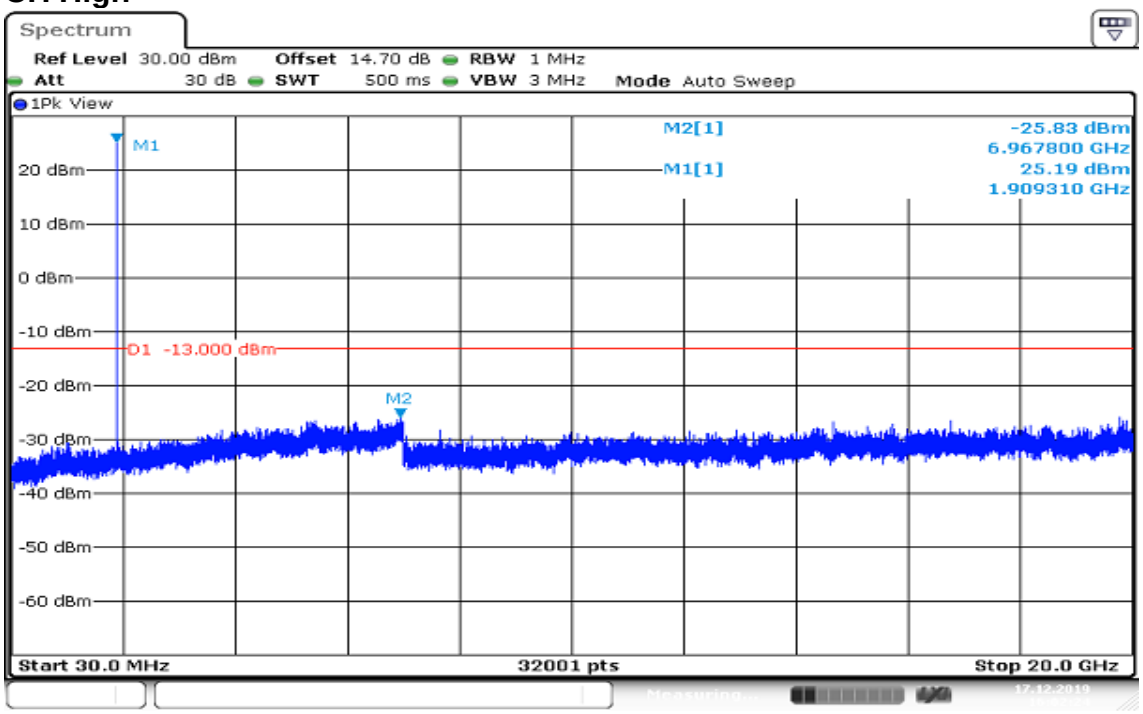
Date: 17.DEC.2019 16:00:50

CH Mid



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

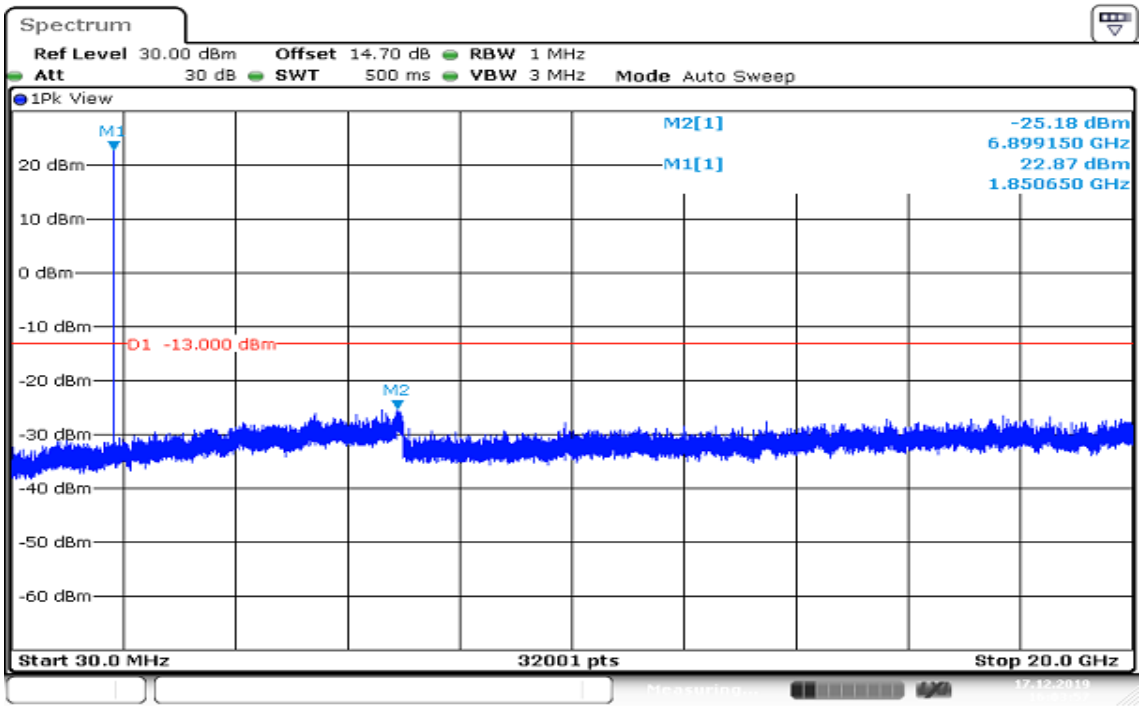
CH High



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

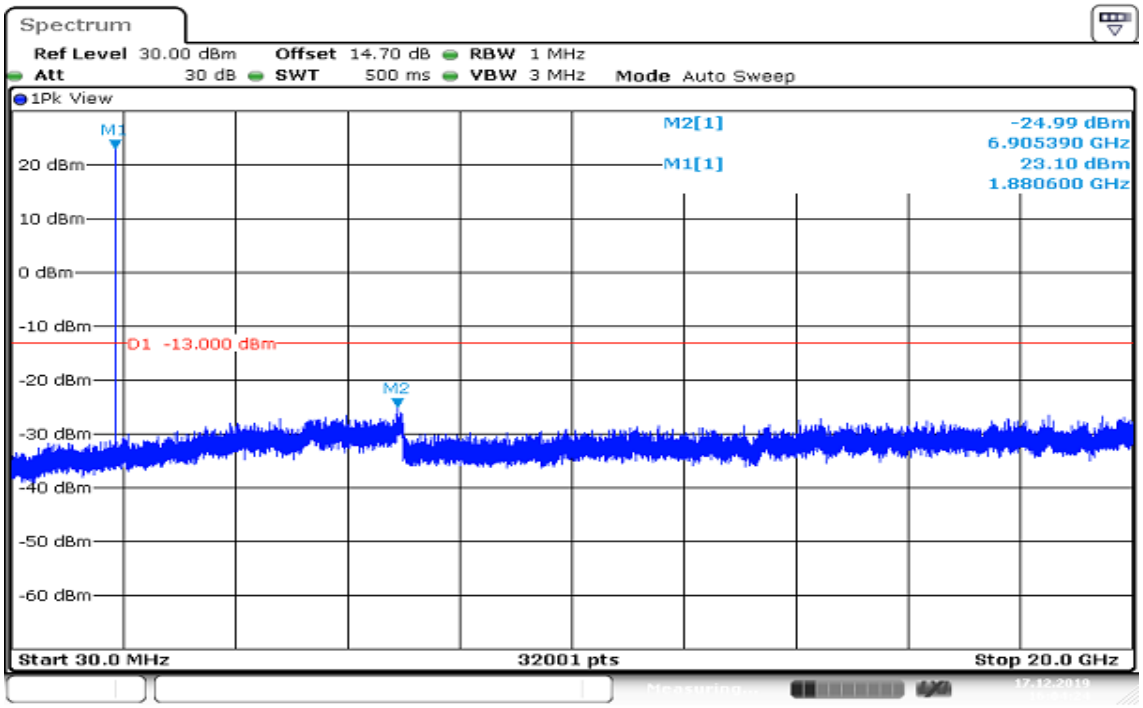
CHANNEL BANDWIDTH: 3MHz / 16QAM / 1RB

CH Low



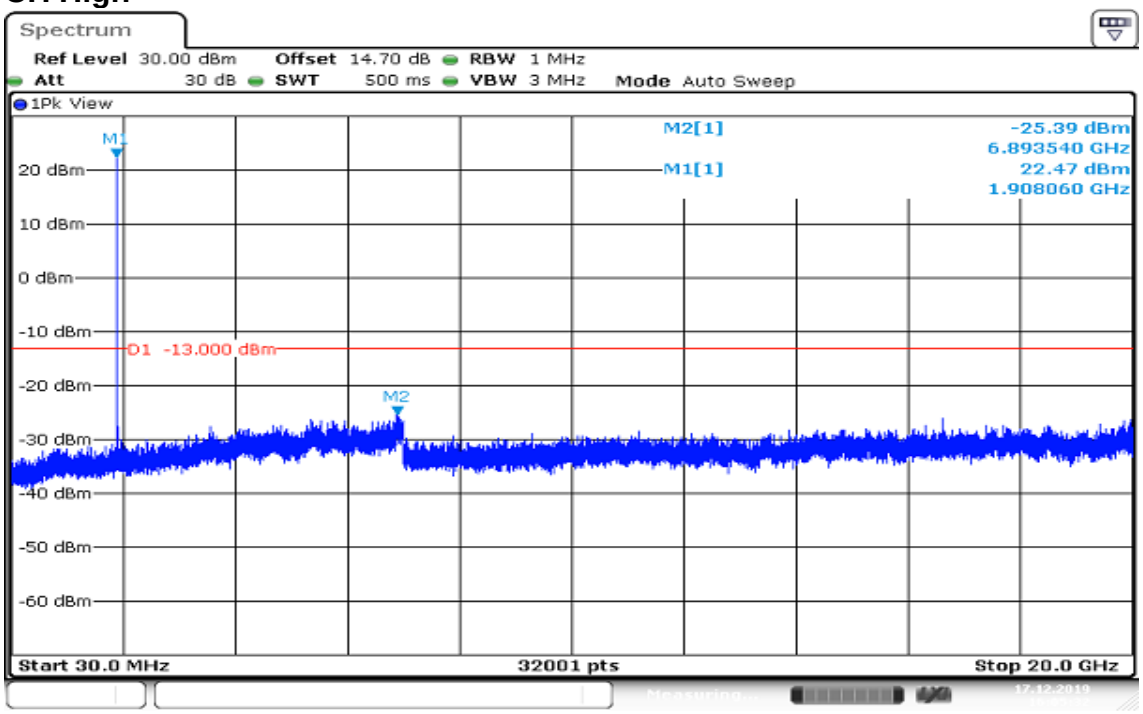
Date: 17.DEC.2019 16:03:58

CH Mid



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

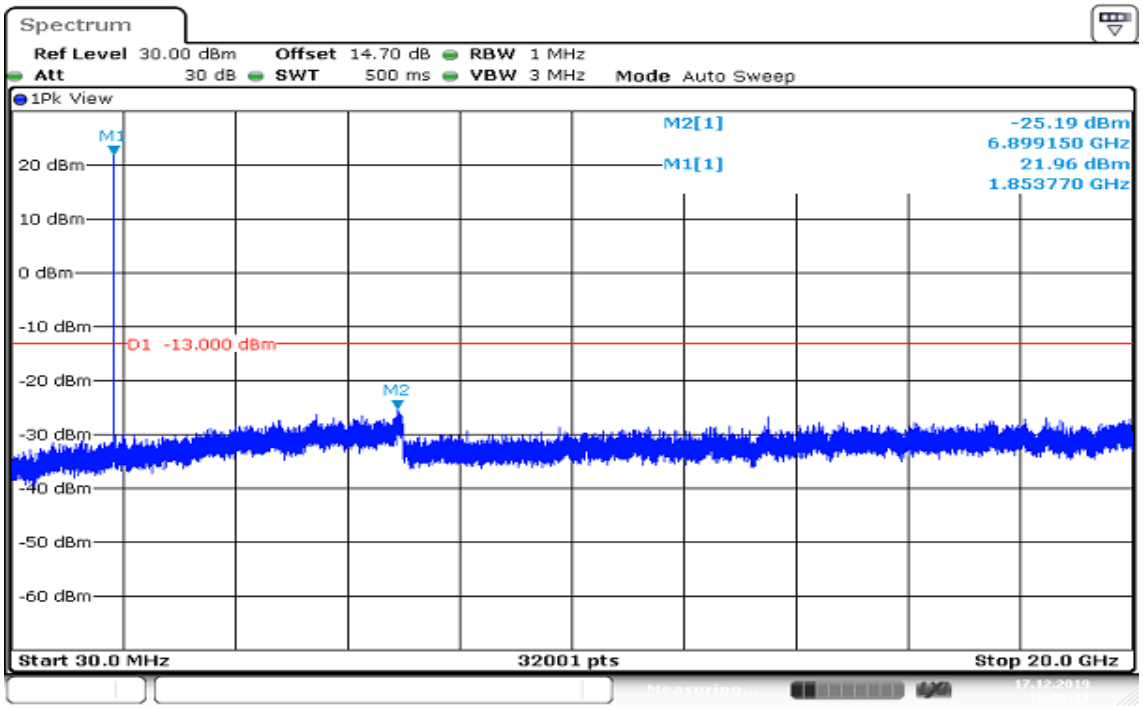
CH High



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

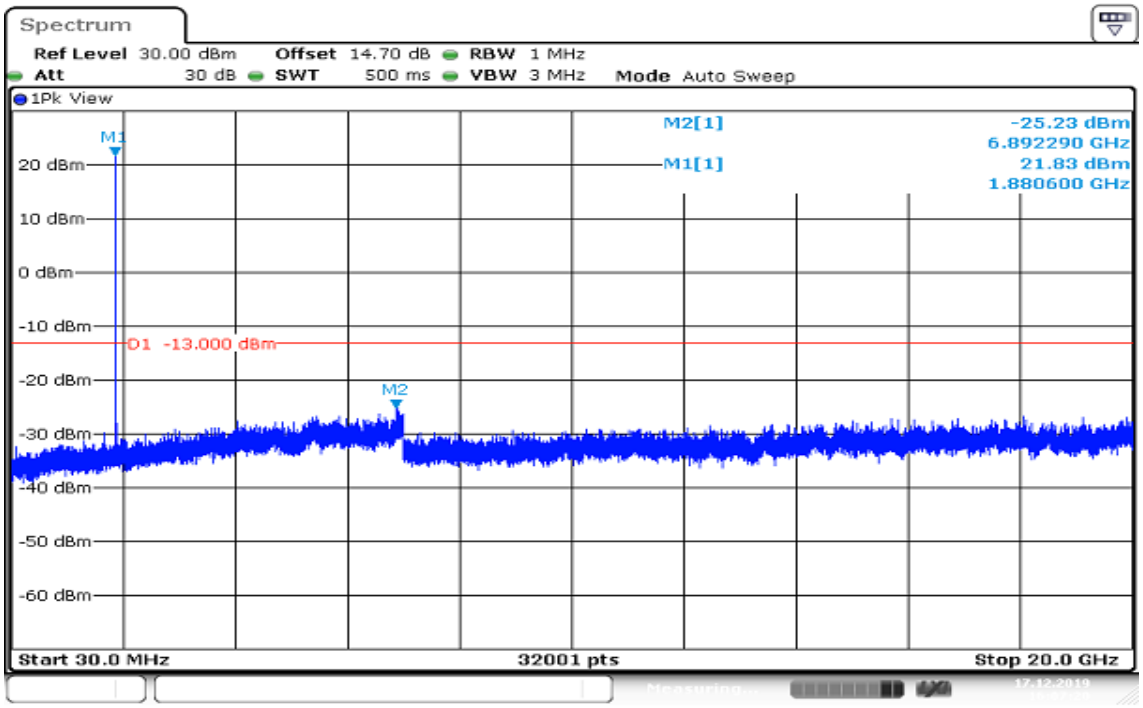
CHANNEL BANDWIDTH: 5MHz / 16QAM / 1RB

CH Low



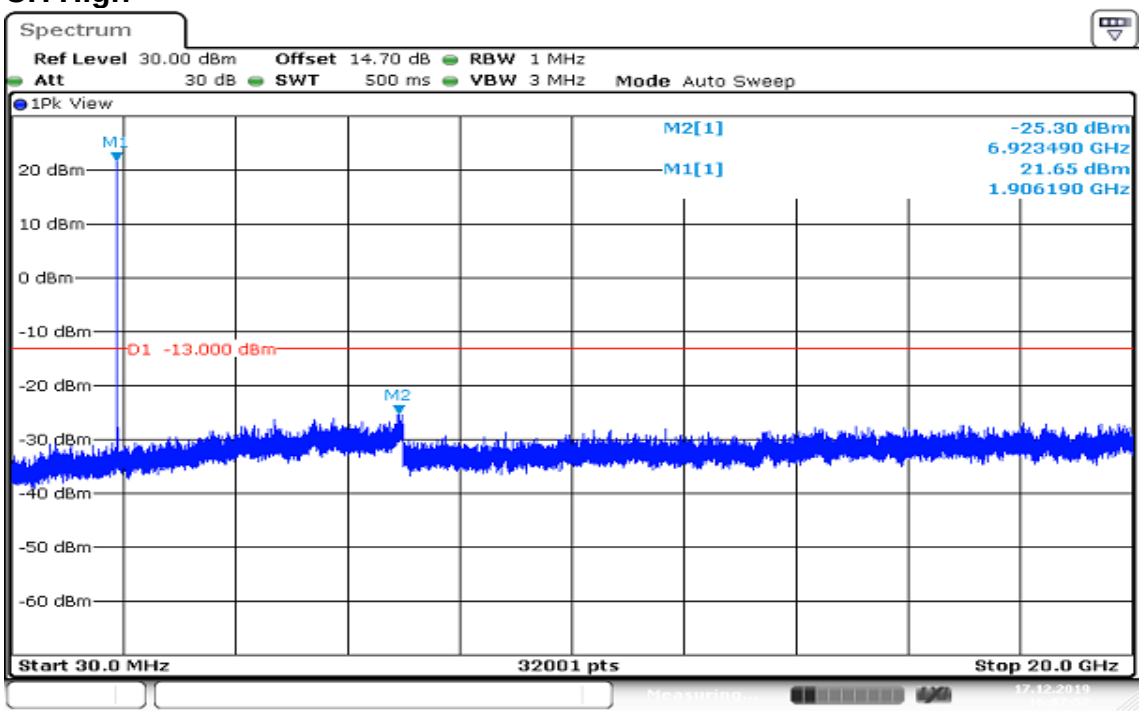
Date: 17.DEC.2019 16:06:12

CH Mid



Date: 17.DEC.2019 16:07:20

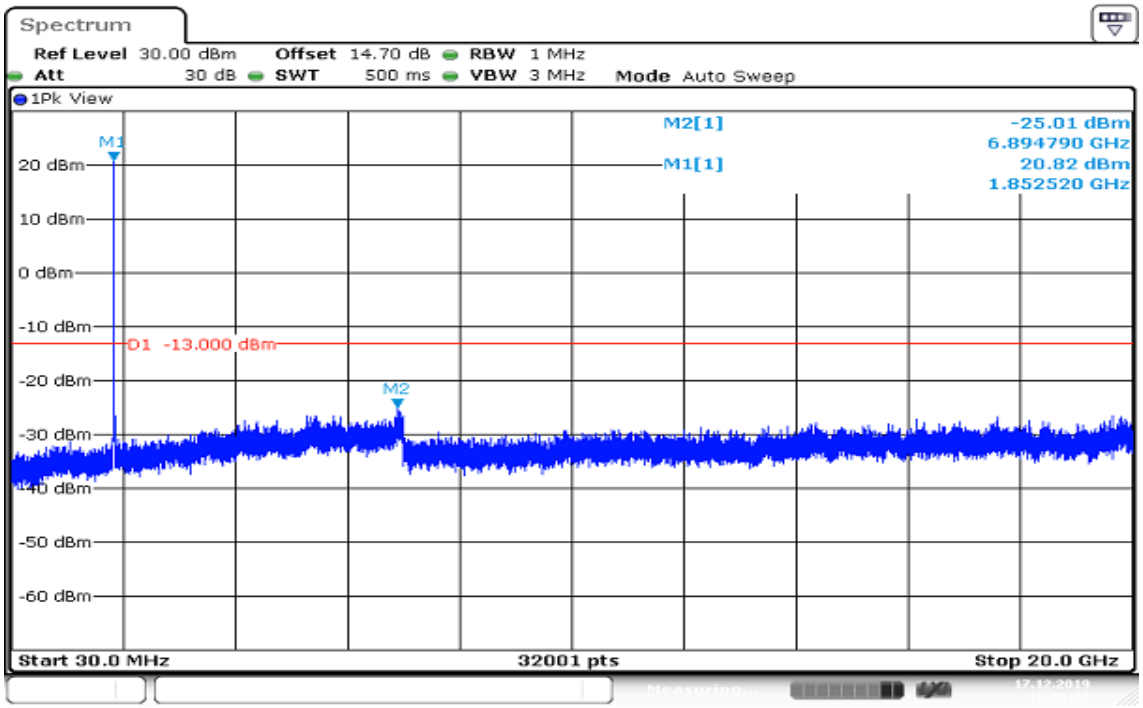
CH High



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

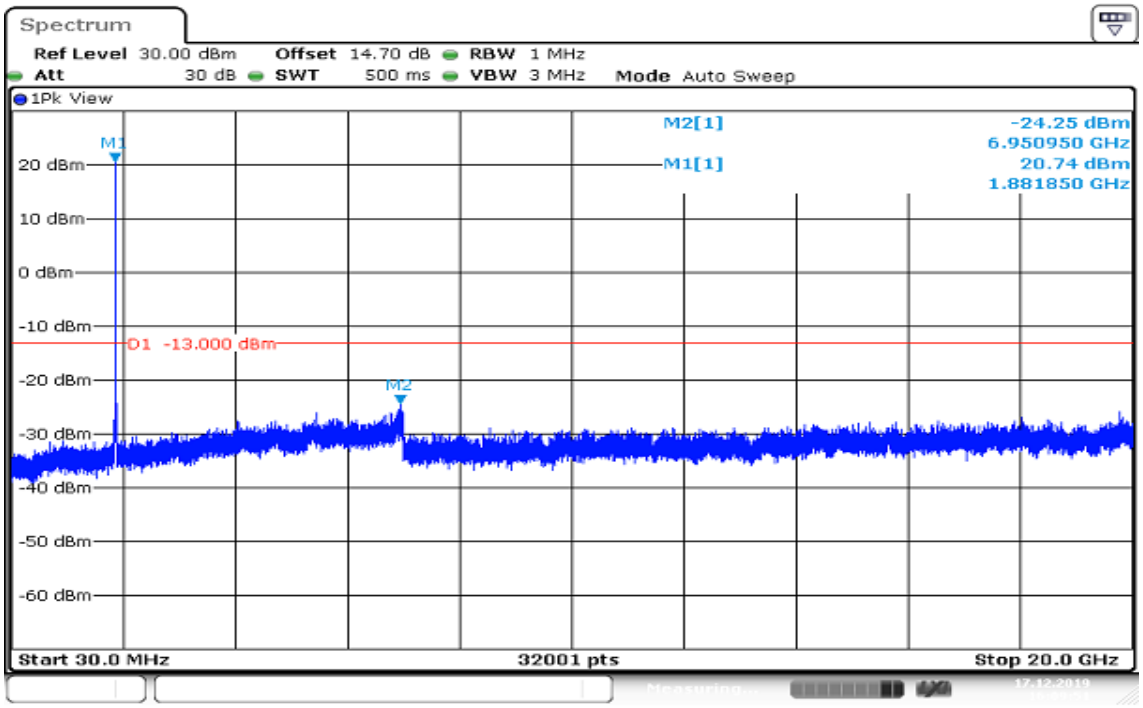
CHANNEL BANDWIDTH: 10MHz / 16QAM / 1RB

CH Low



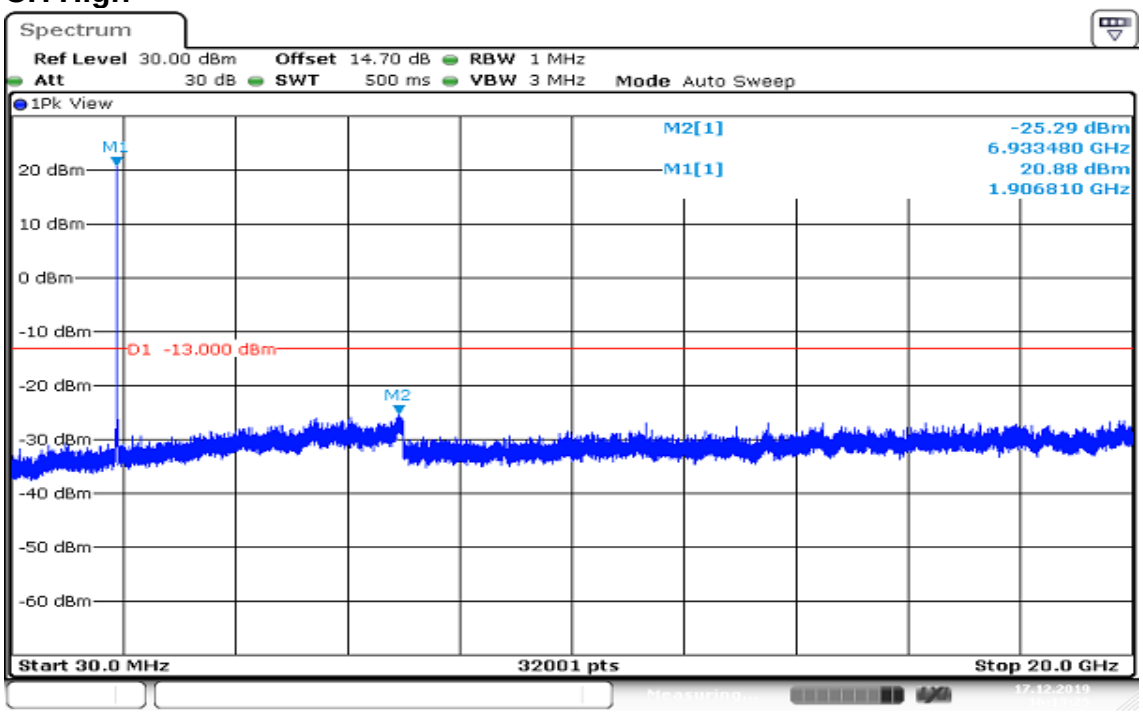
Date: 17.DEC.2019 16:09:25

CH Mid



Date: 17.DEC.2019 16:09:52

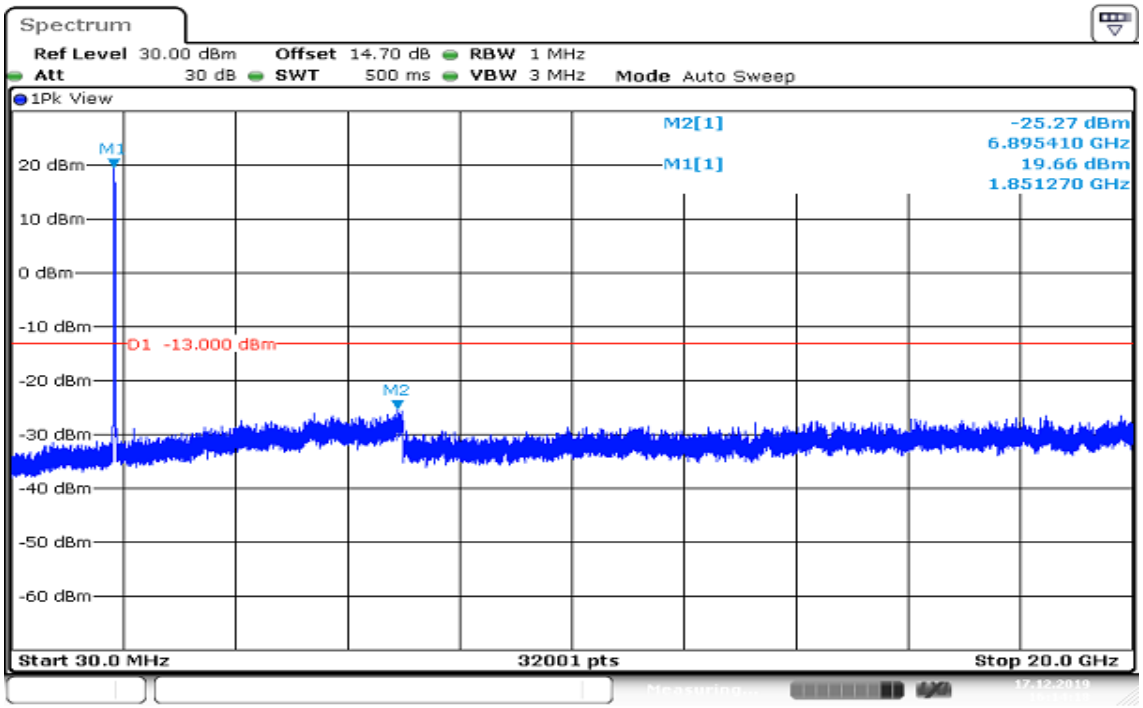
CH High



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

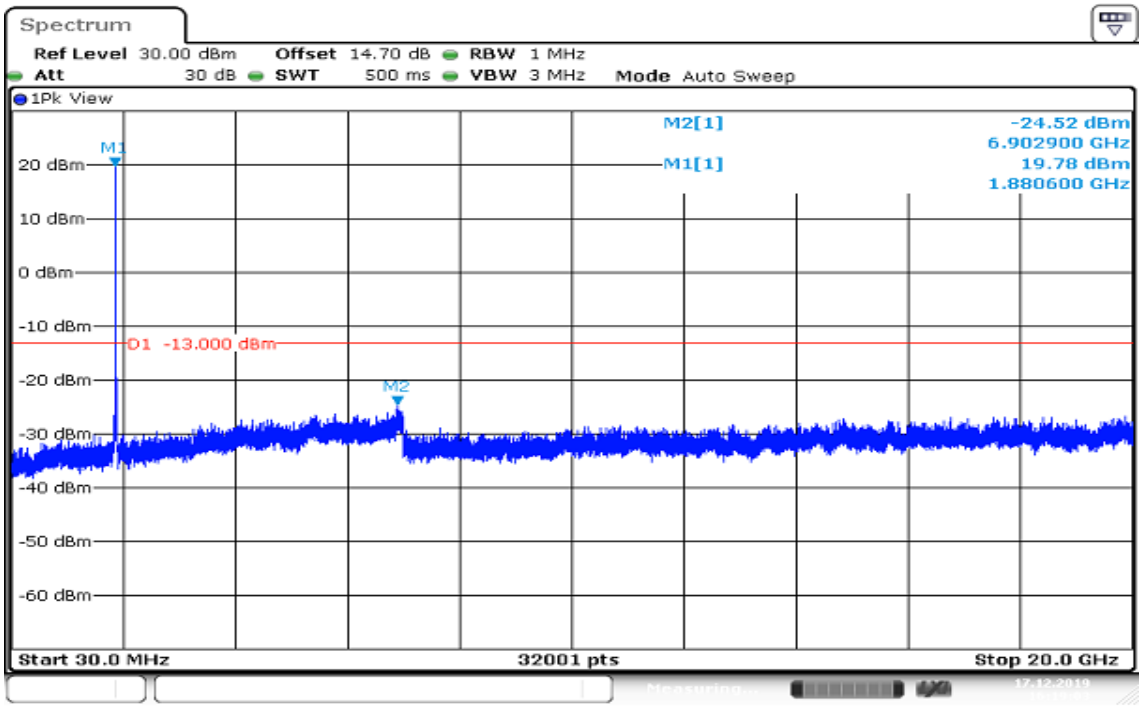
CHANNEL BANDWIDTH: 15MHz / 16QAM / 1RB

CH Low



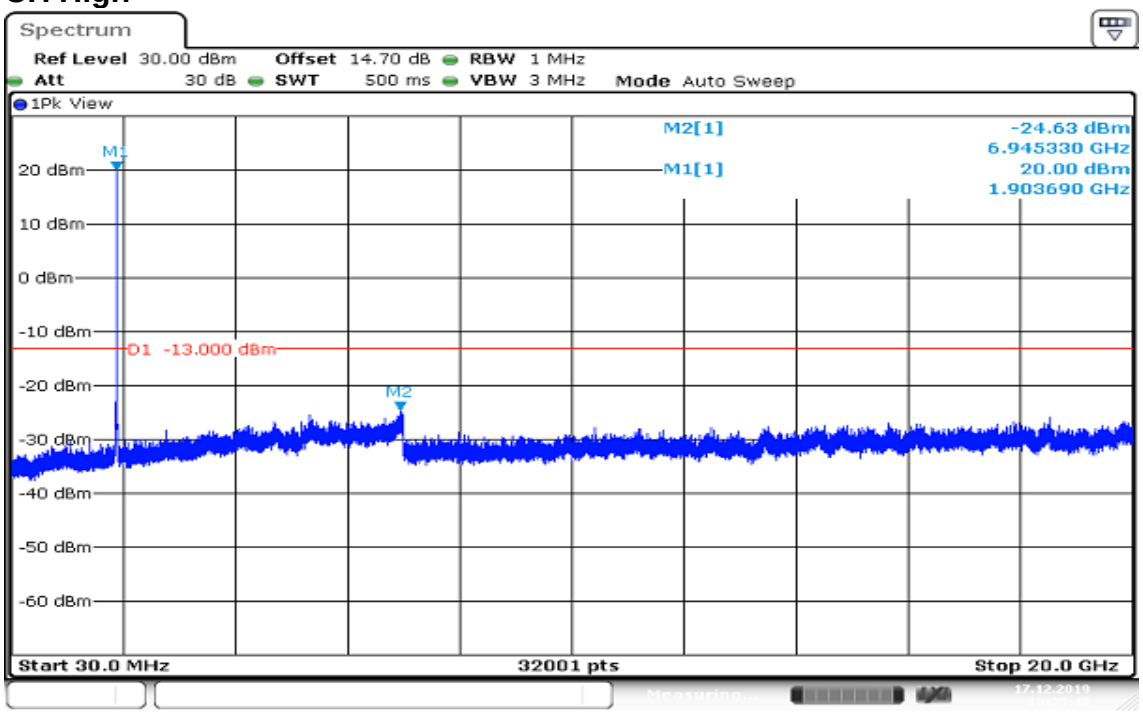
Date: 17.DEC.2019 16:14:19

CH Mid



Date: 17.DEC.2019 16:19:04

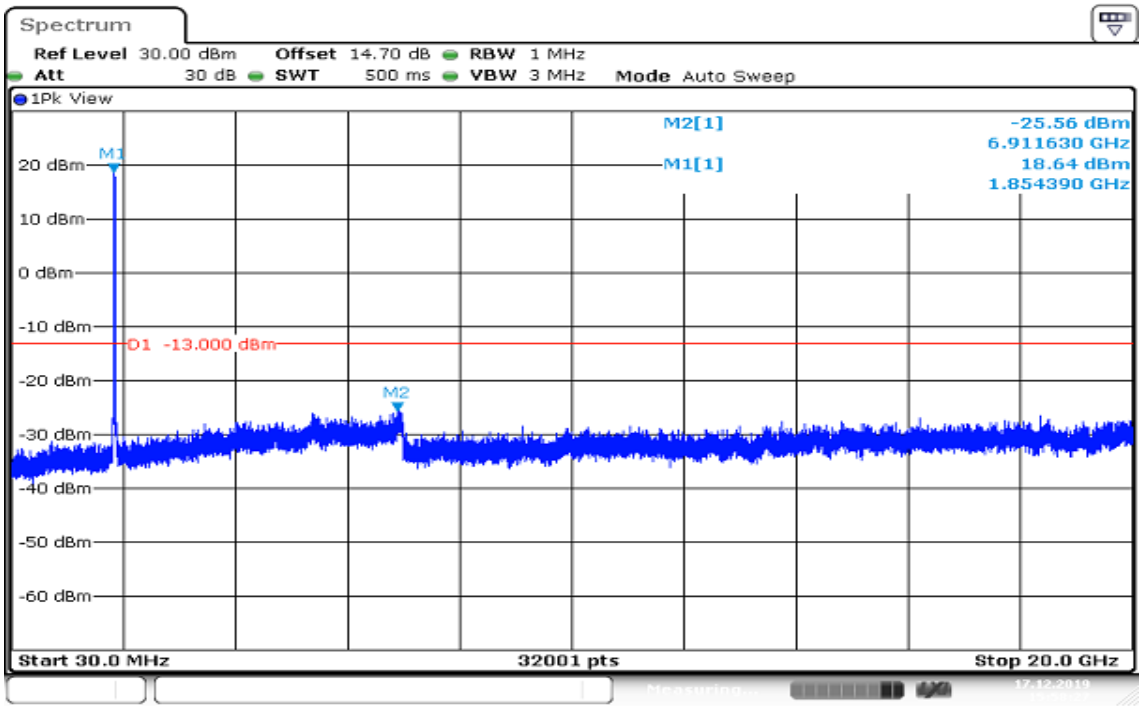
CH High



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

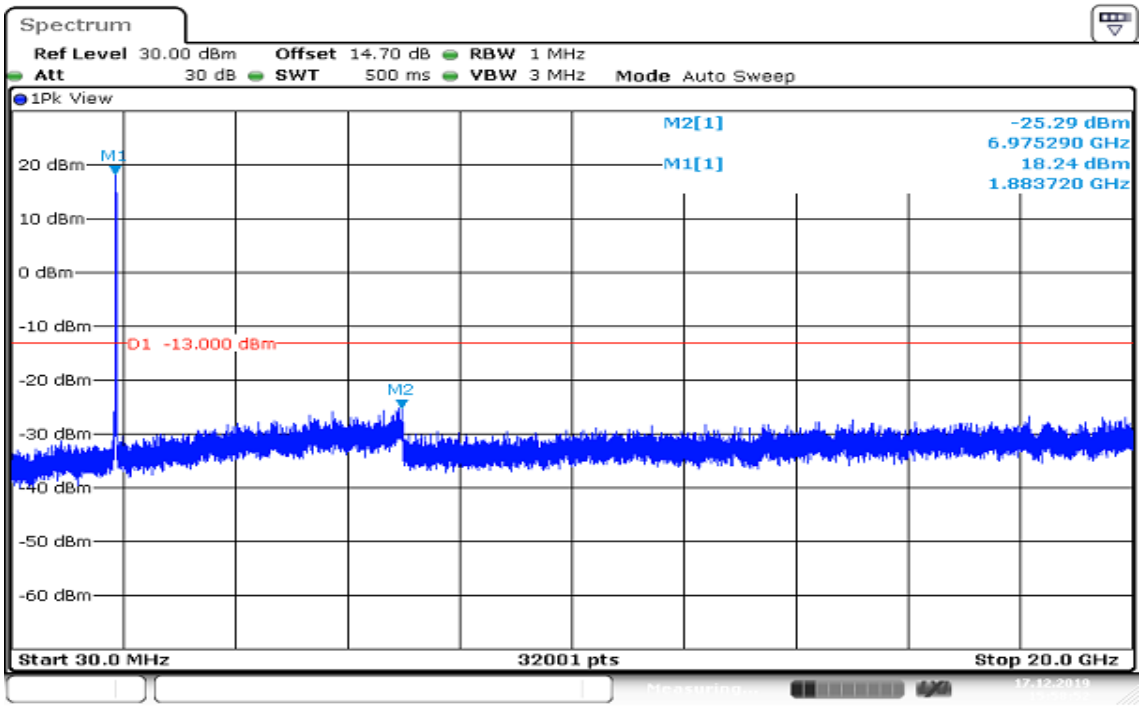
CHANNEL BANDWIDTH: 20MHz / 16QAM / 1RB

CH Low



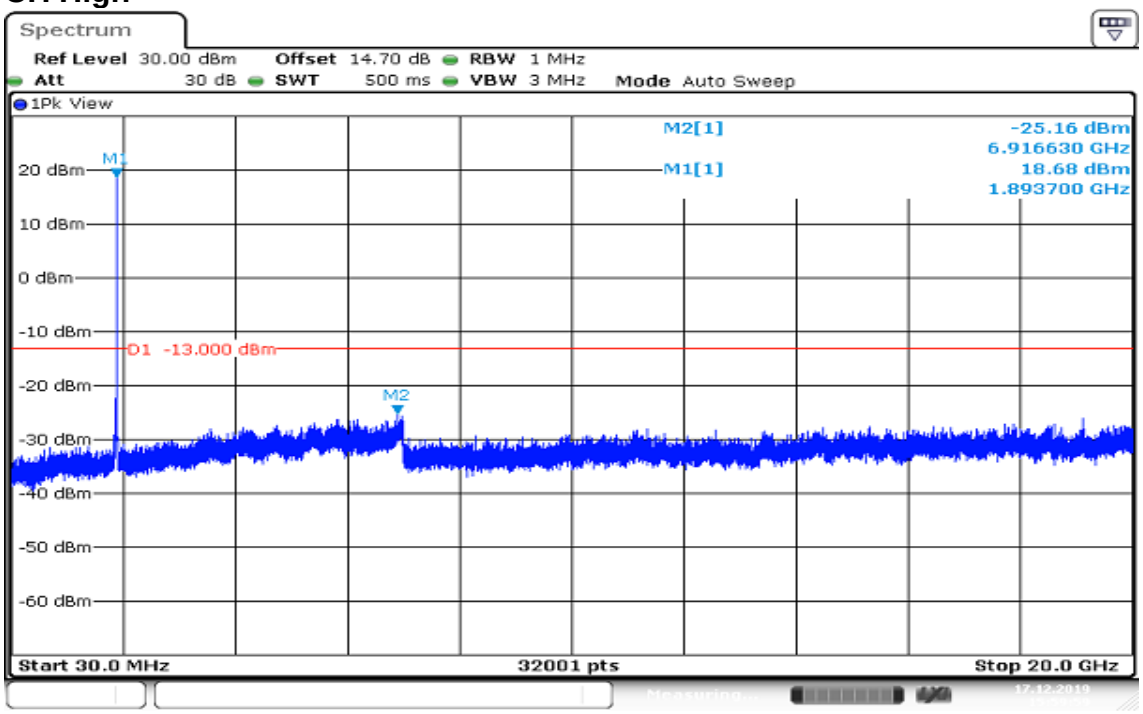
Date: 17.DEC.2019 15:58:28

CH Mid



Date: 17.DEC.2019 15:58:53

CH High

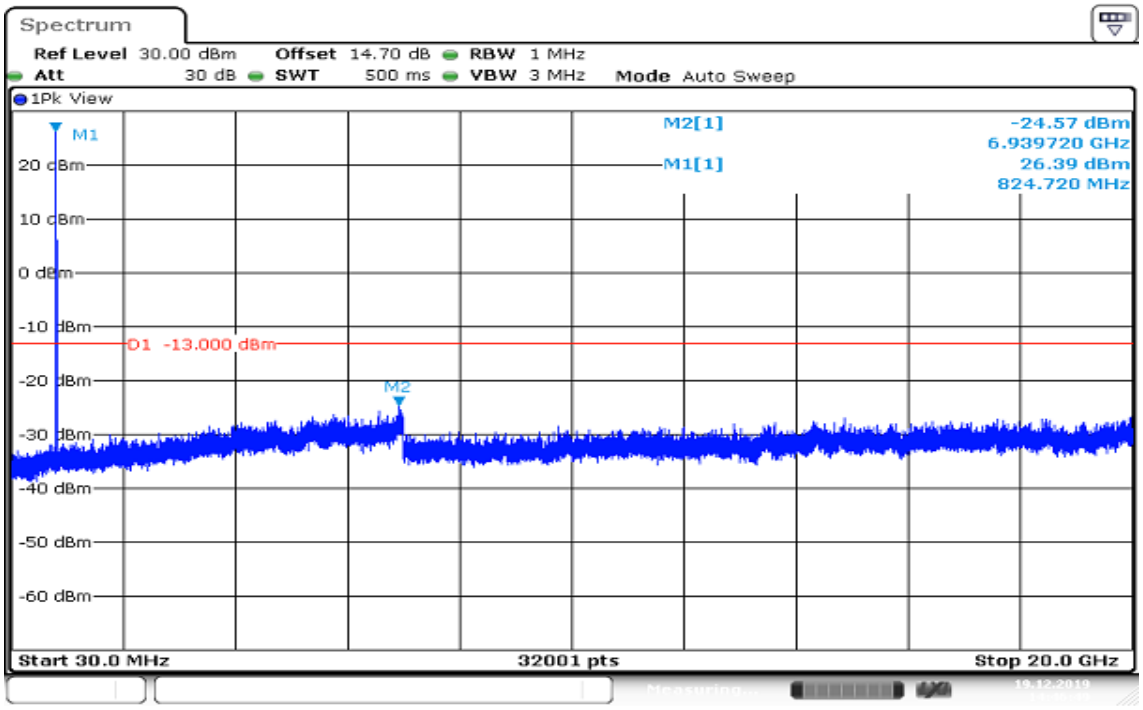


Date: 17.DEC.2019 16:00:00

LTE Band 5

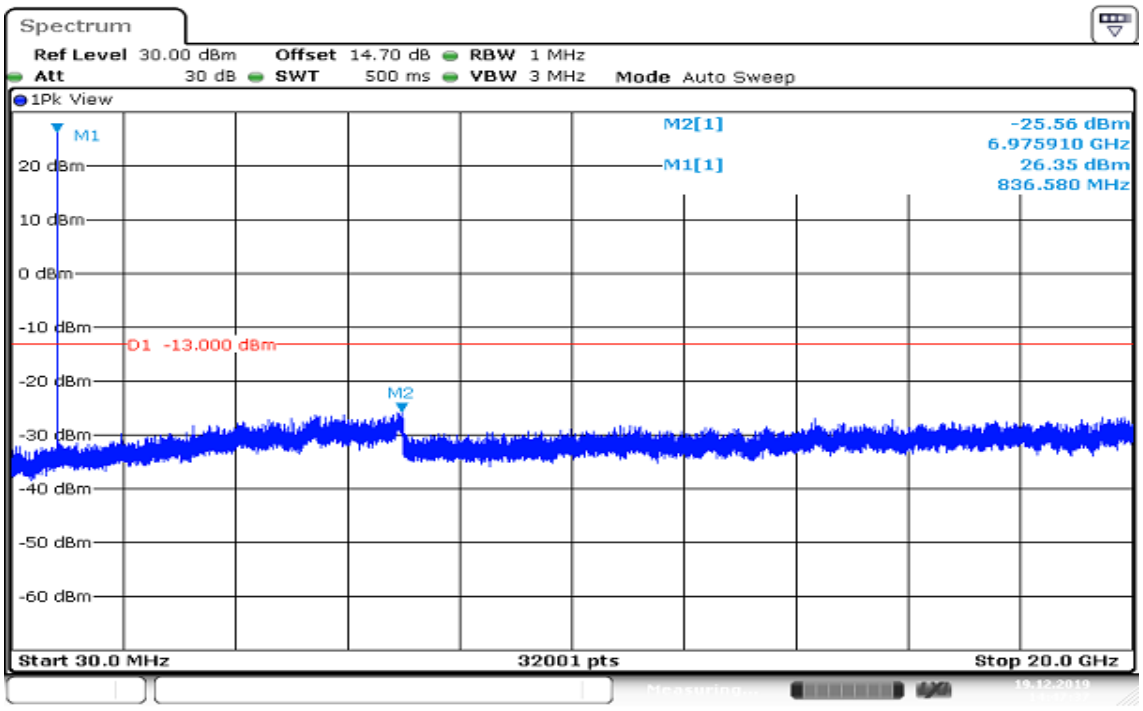
CHANNEL BANDWIDTH: 1.4MHz / QPSK / 1RB

CH Low



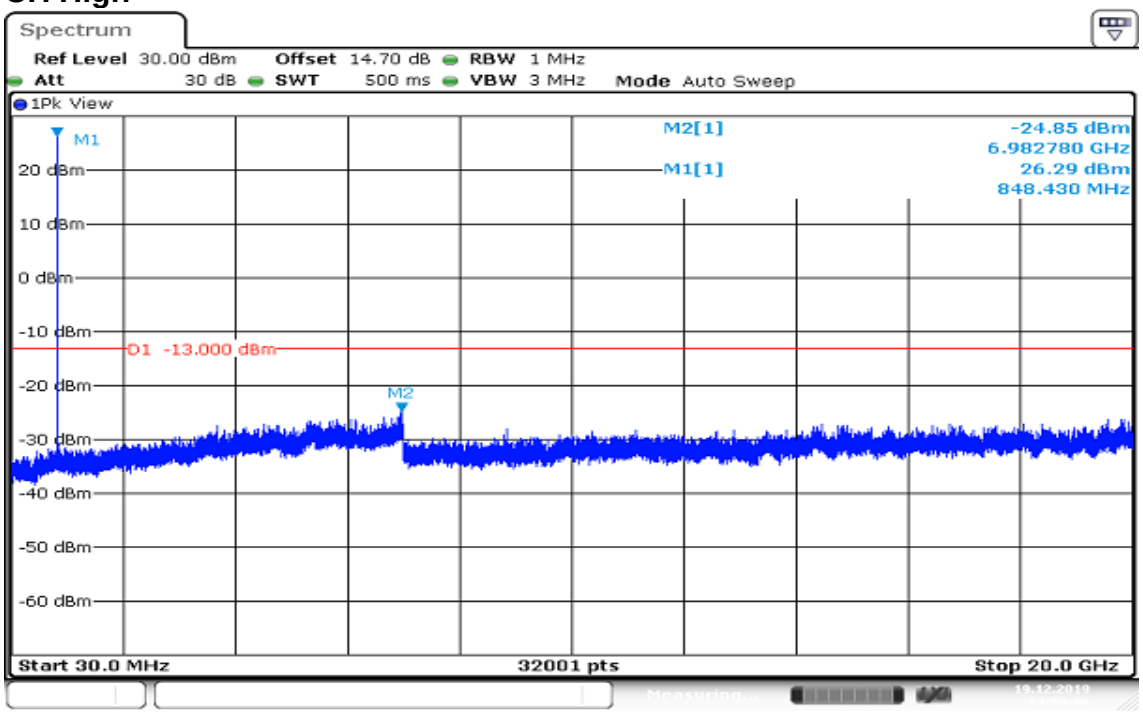
Date: 19.DEC.2019 14:46:50

CH Mid



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

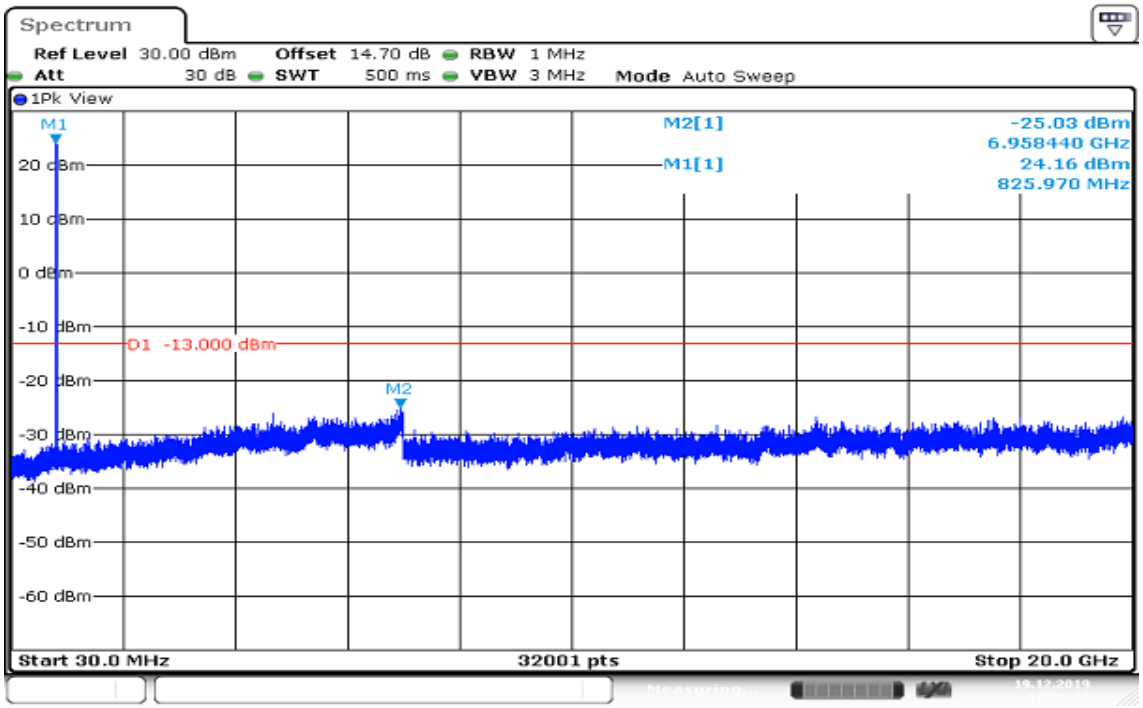
CH High



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

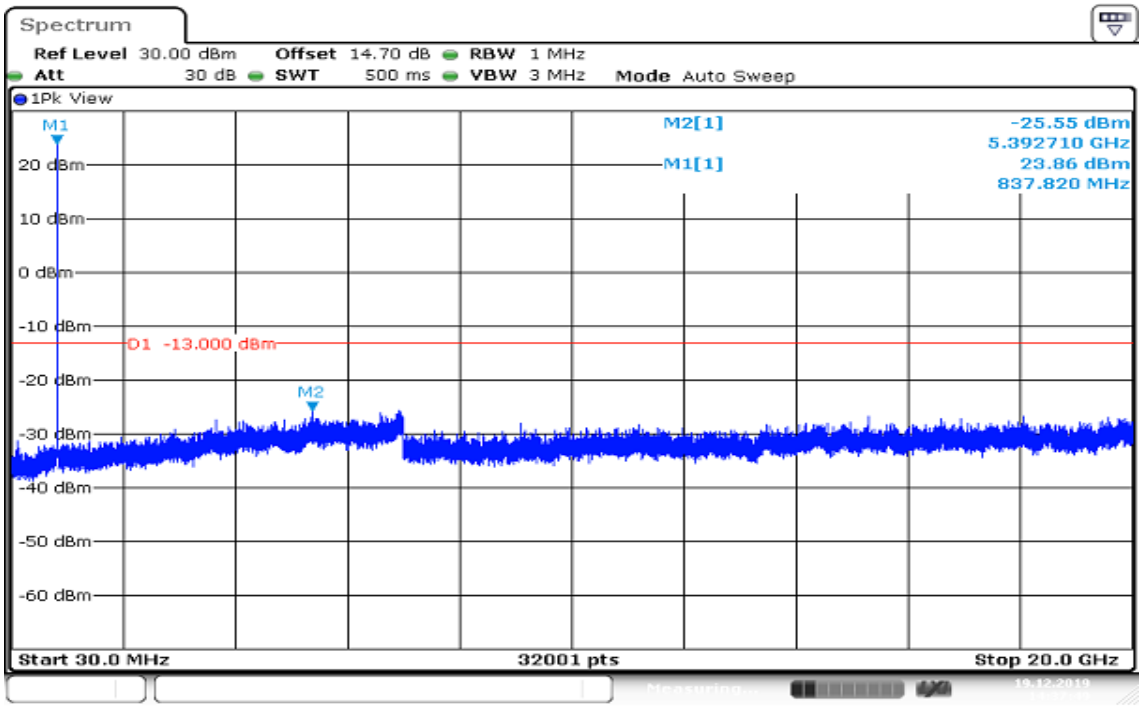
CHANNEL BANDWIDTH: 3MHz / QPSK / 1RB

CH Low



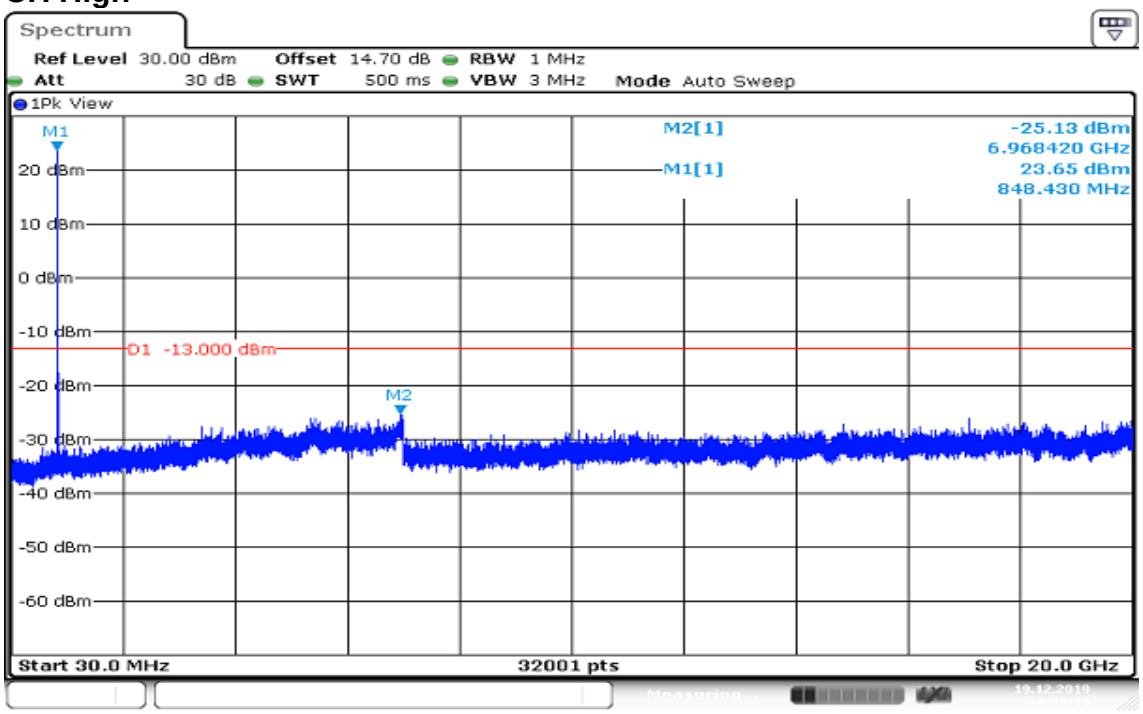
Date: 19.DEC.2019 14:36:21

CH Mid



Date: 19.DEC.2019 14:37:50

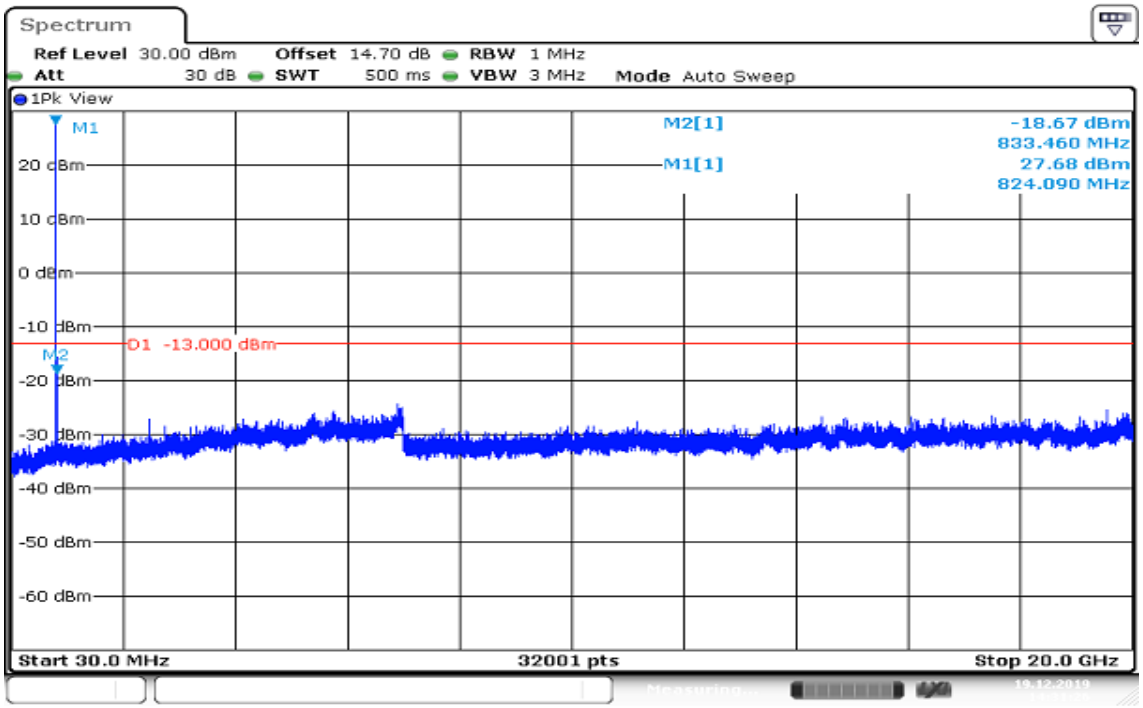
CH High



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

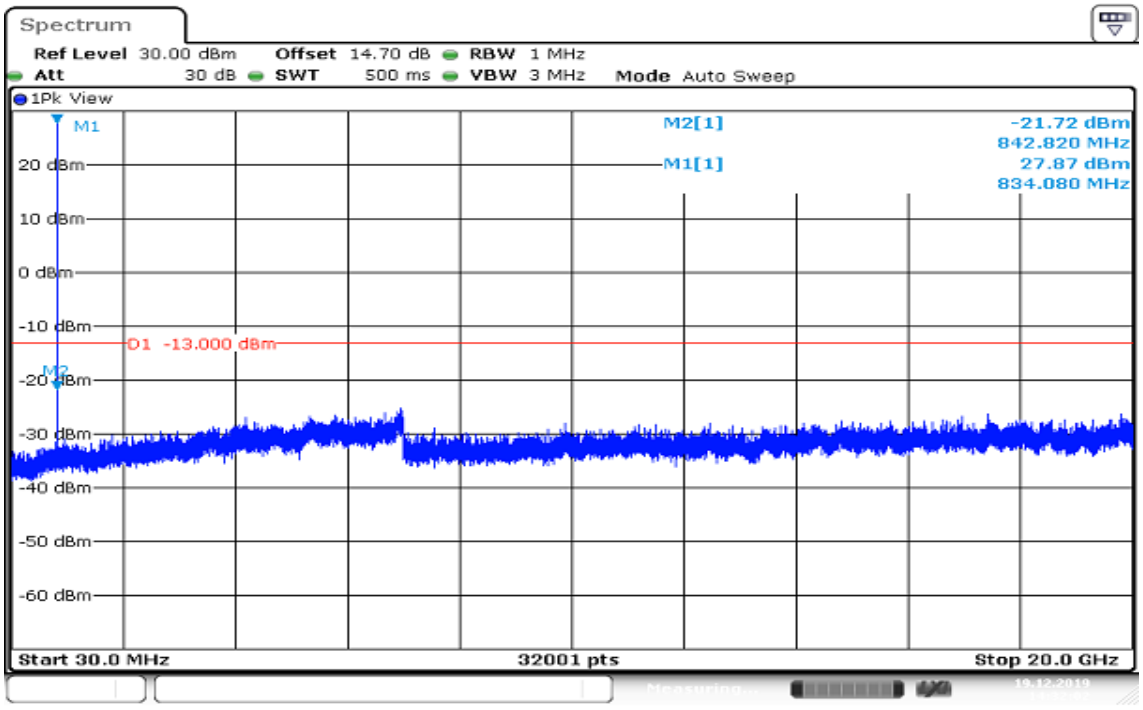
CHANNEL BANDWIDTH: 5MHz / QPSK / 1RB

CH Low



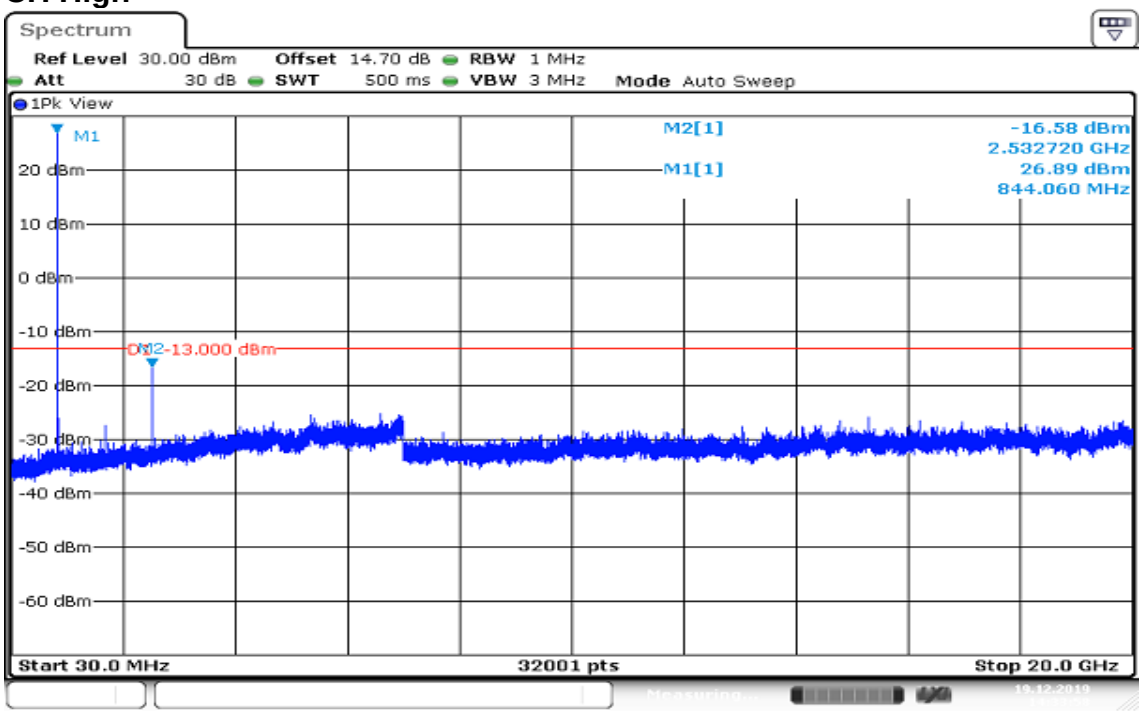
Date: 19.DEC.2019 14:31:27

CH Mid



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

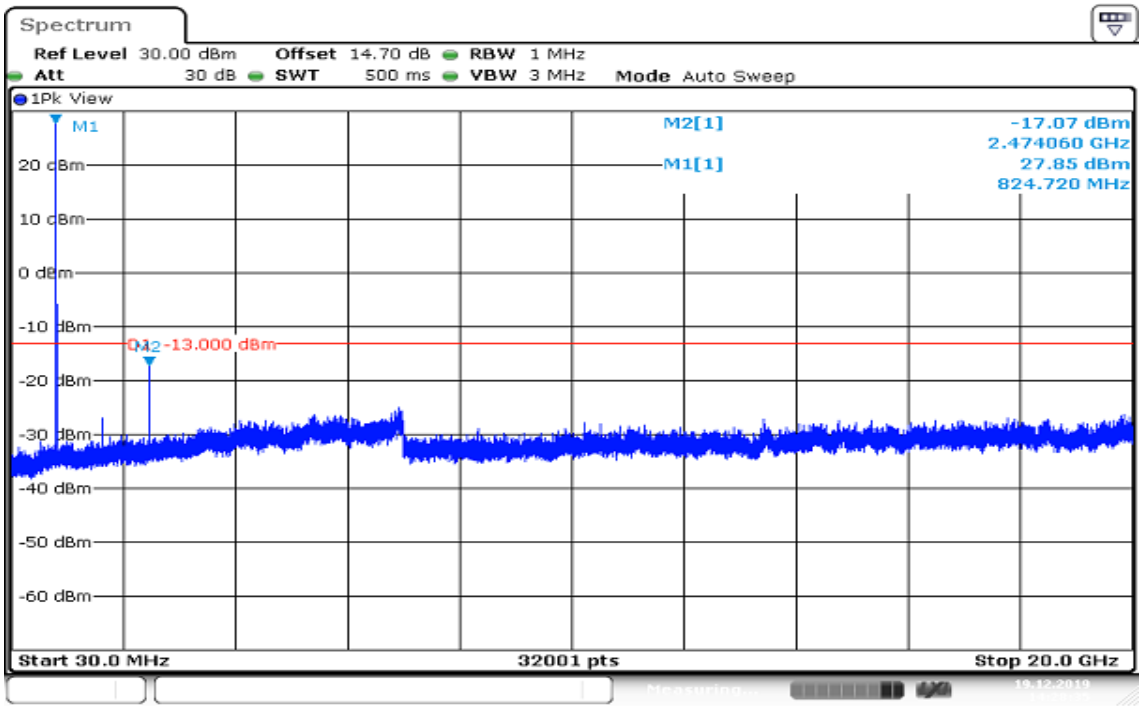
CH High



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

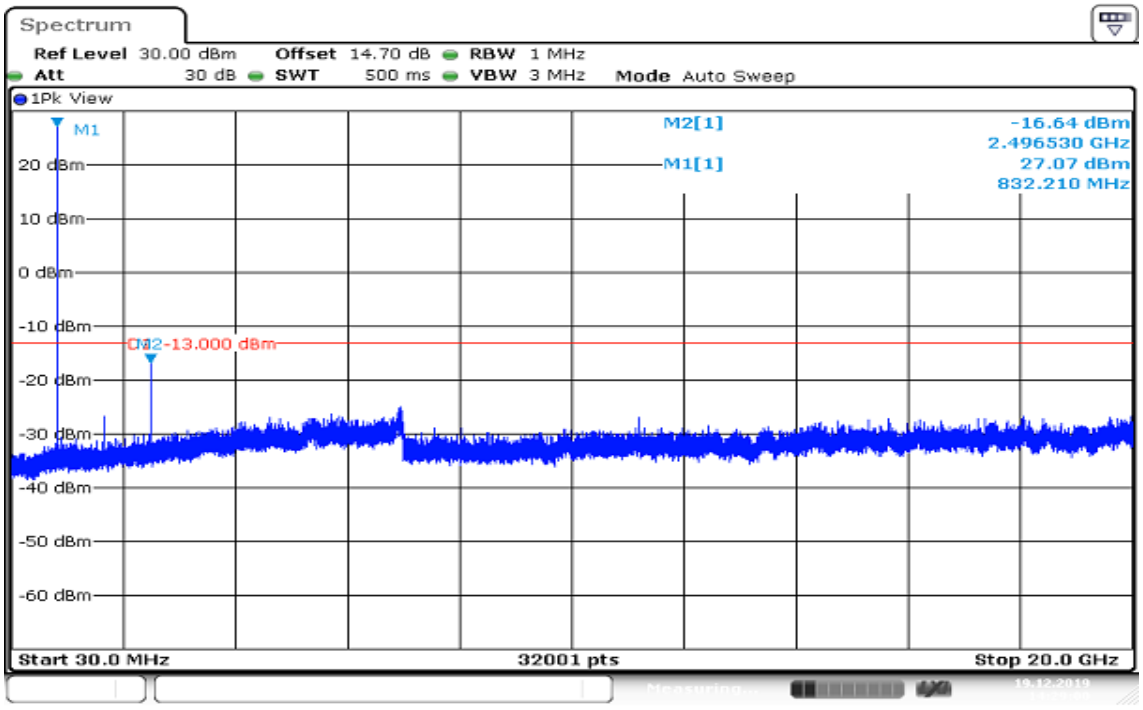
CHANNEL BANDWIDTH: 10MHz / QPSK / 1RB

CH Low



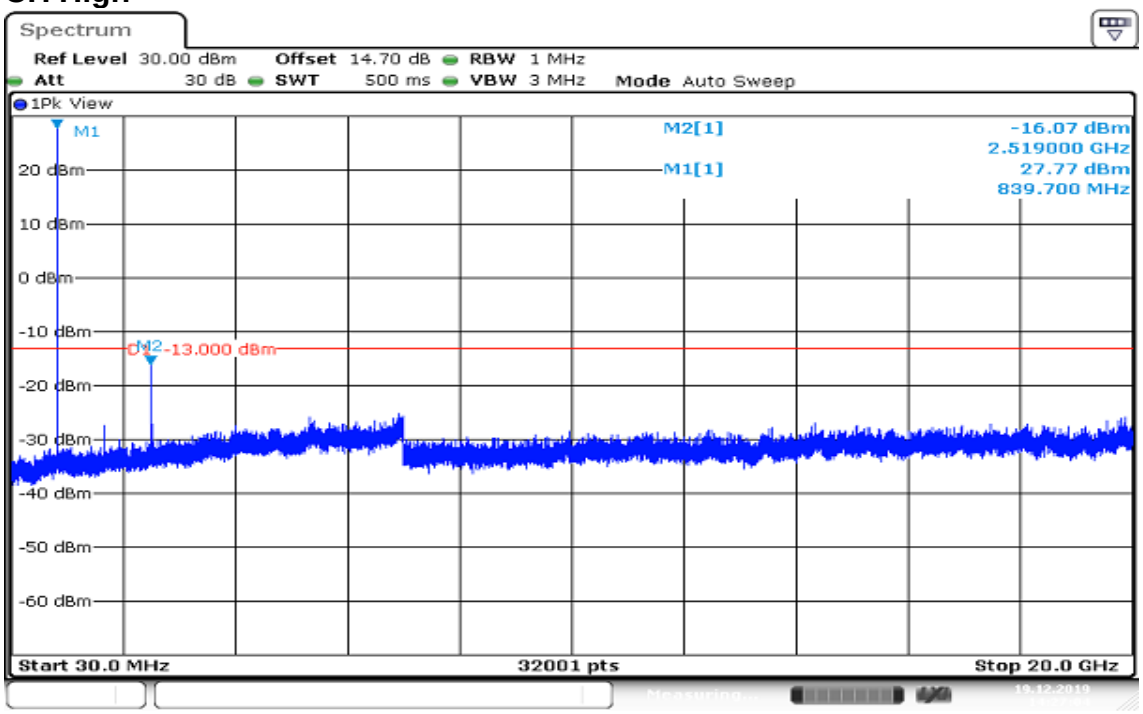
Date: 19.DEC.2019 14:28:36

CH Mid



Date: 19.DEC.2019 14:29:01

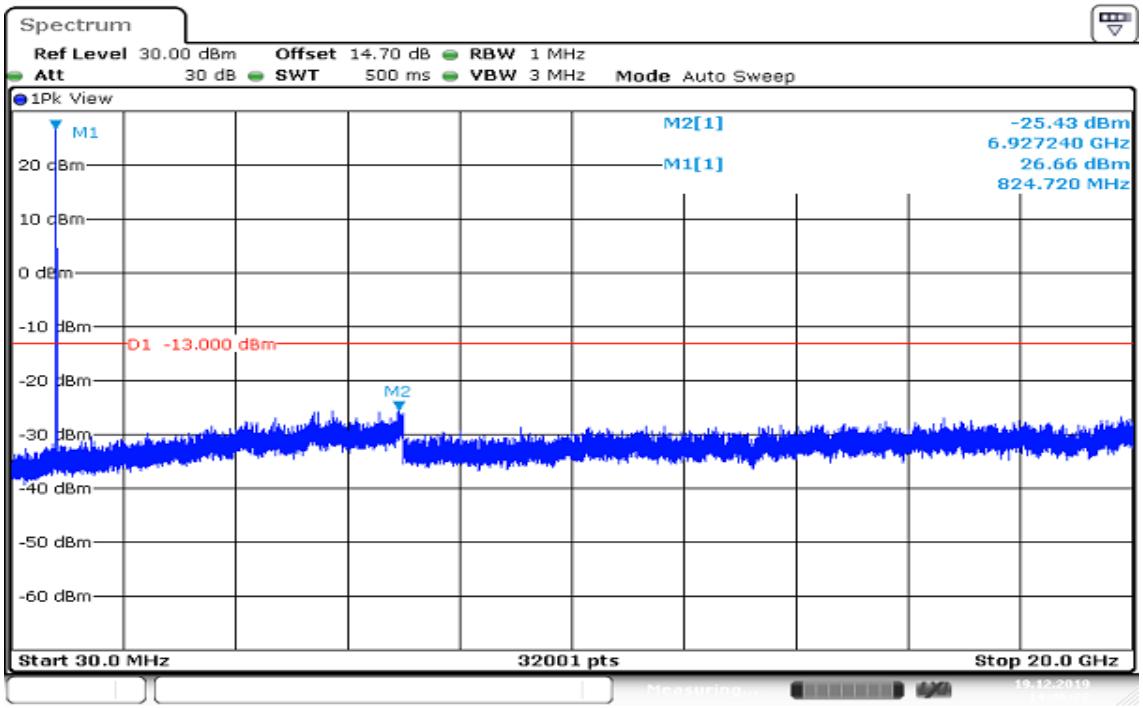
CH High



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

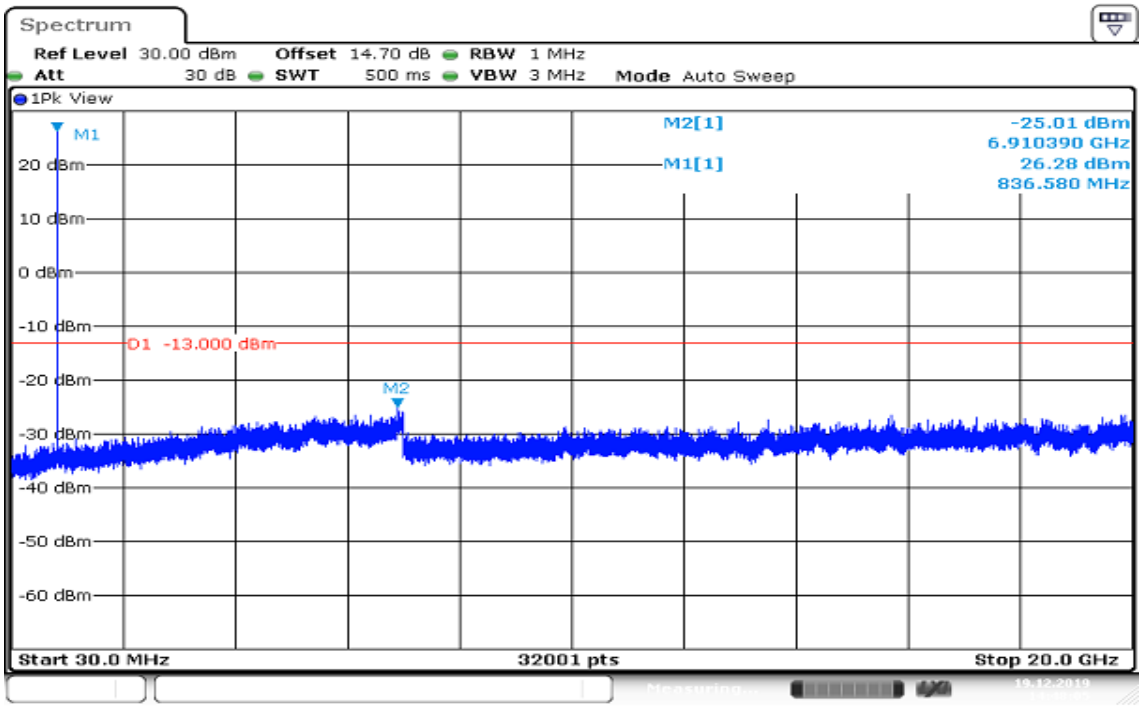
CHANNEL BANDWIDTH: 1.4MHz / 16QAM / 1RB

CH Low



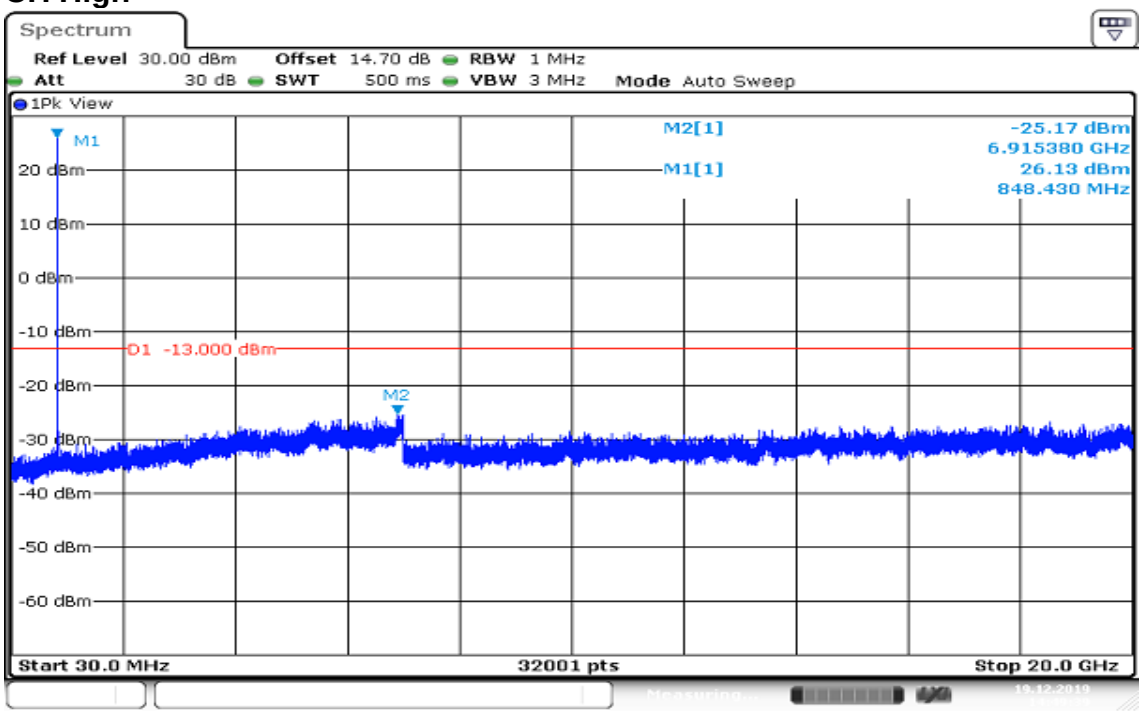
Date: 19.DEC.2019 14:46:23

CH Mid



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

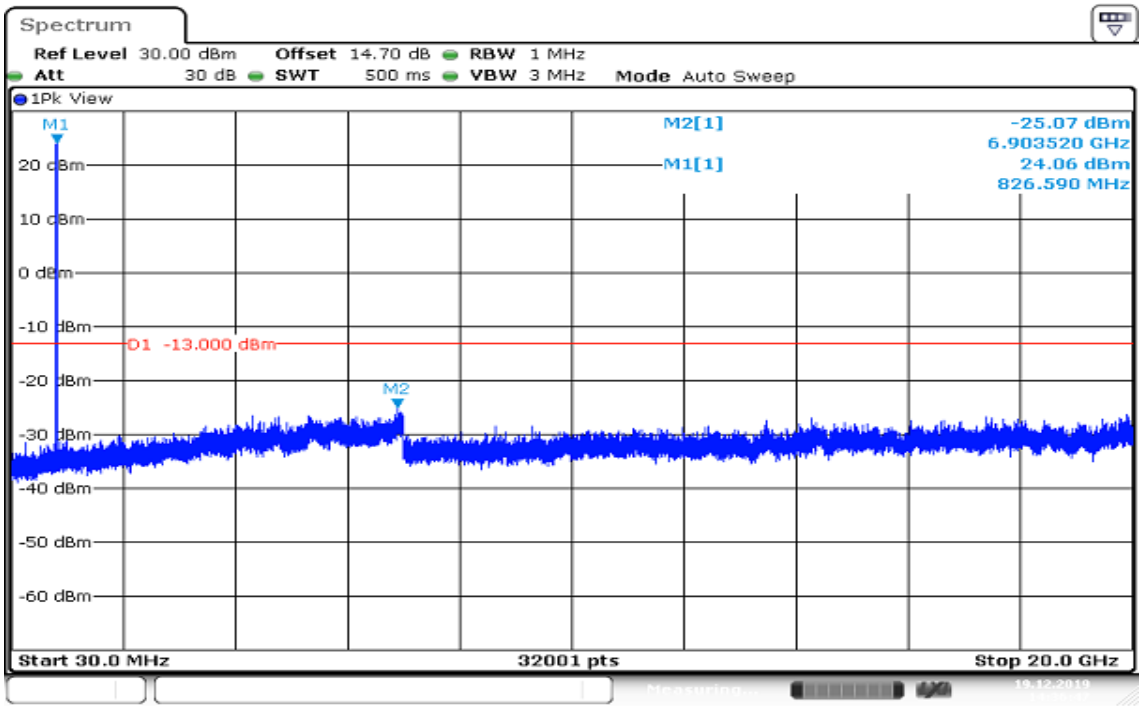
CH High



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

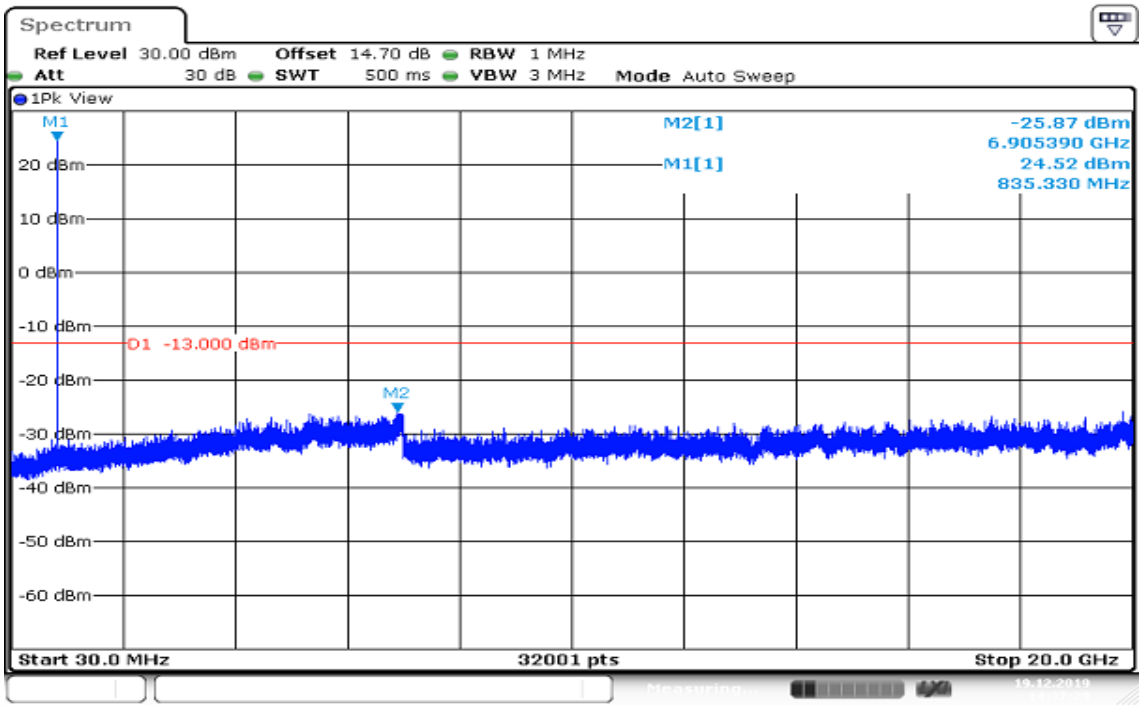
CHANNEL BANDWIDTH: 3MHz / 16QAM / 1RB

CH Low



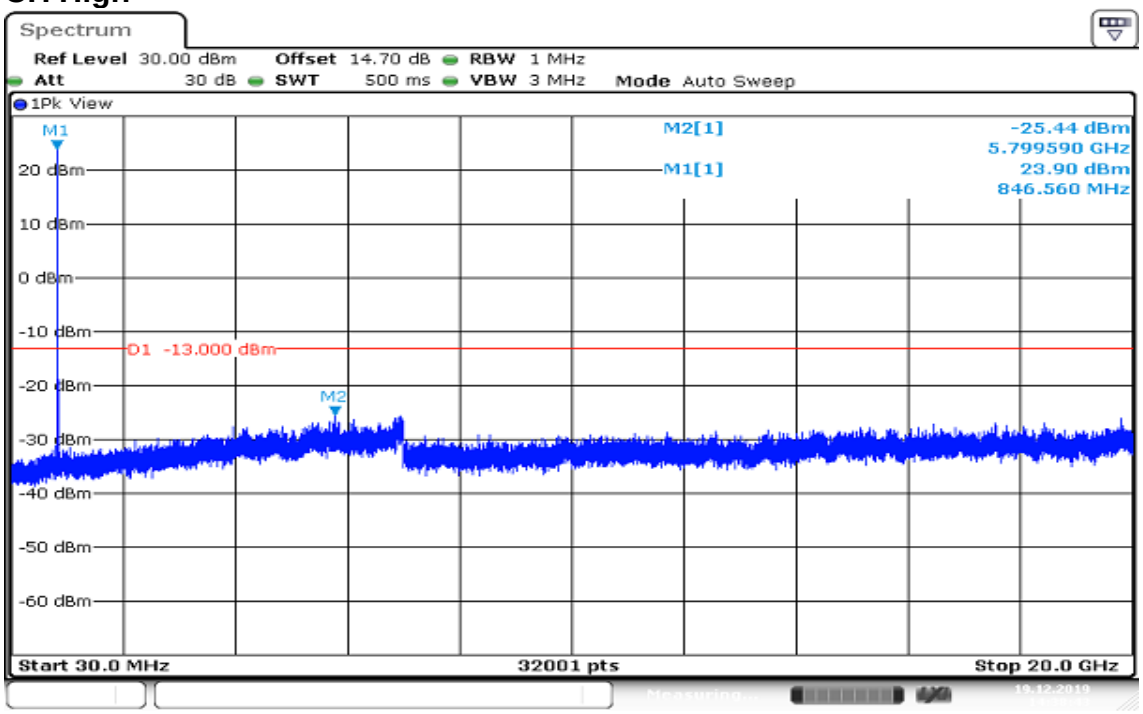
Date: 19.DEC.2019 14:36:48

CH Mid



Date: 19.DEC.2019 14:37:30

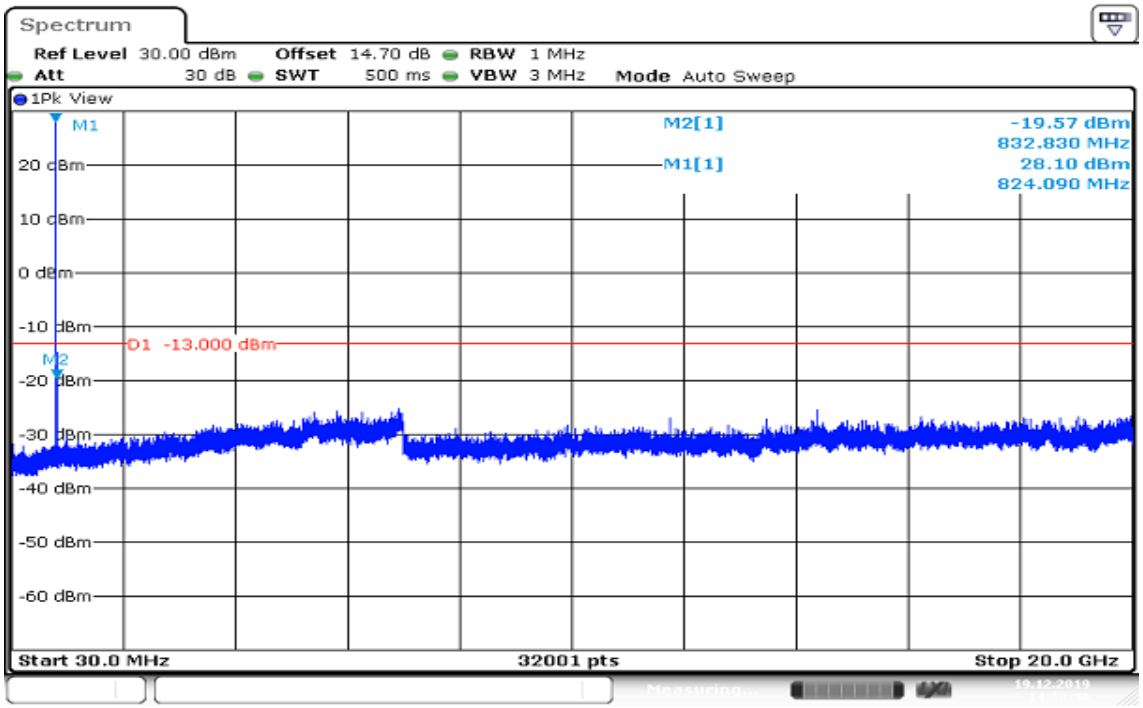
CH High



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

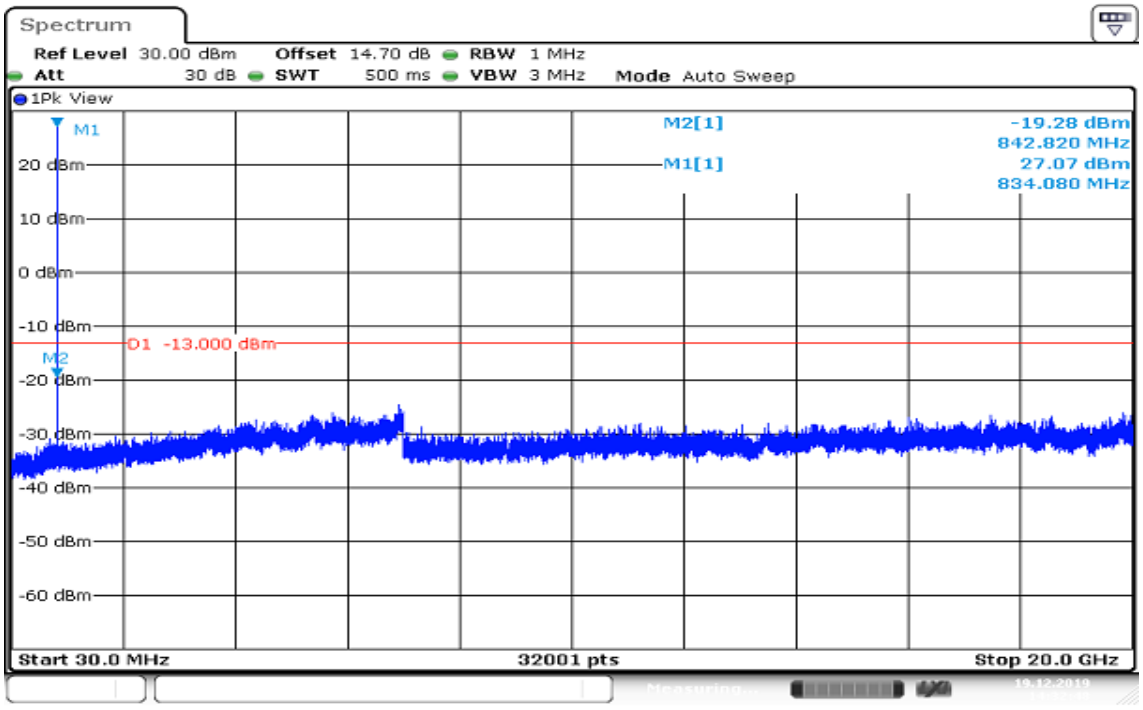
CHANNEL BANDWIDTH: 5MHz / 16QAM / 1RB

CH Low



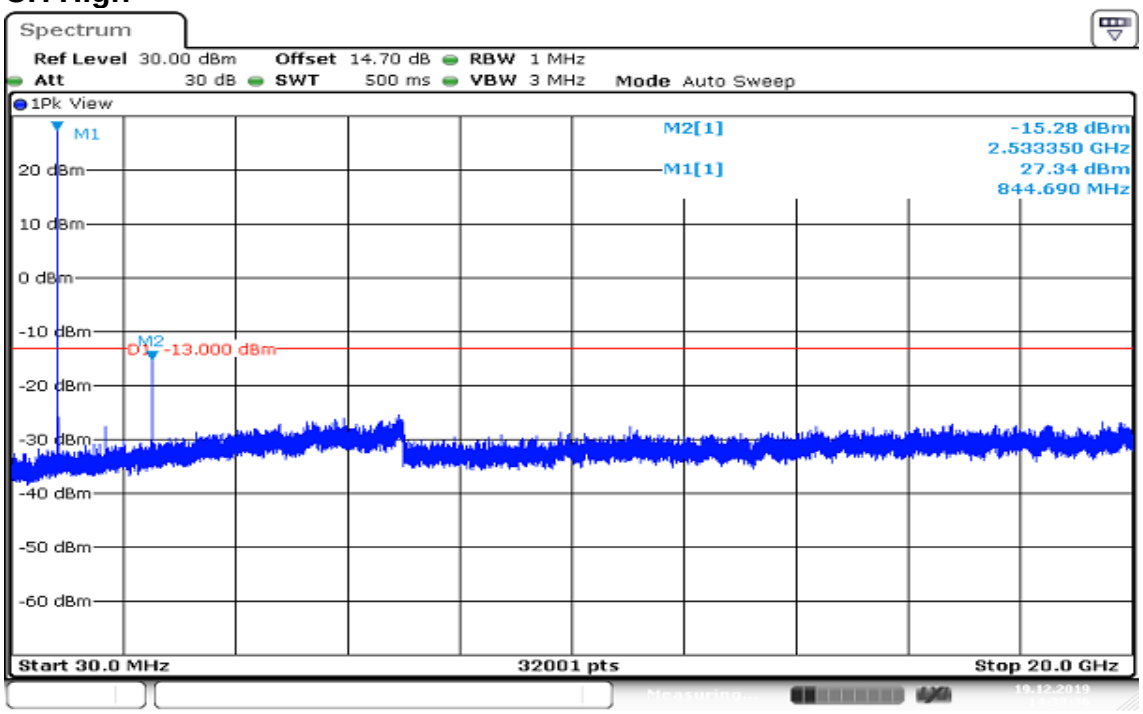
Date: 19.DEC.2019 14:30:47

CH Mid



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

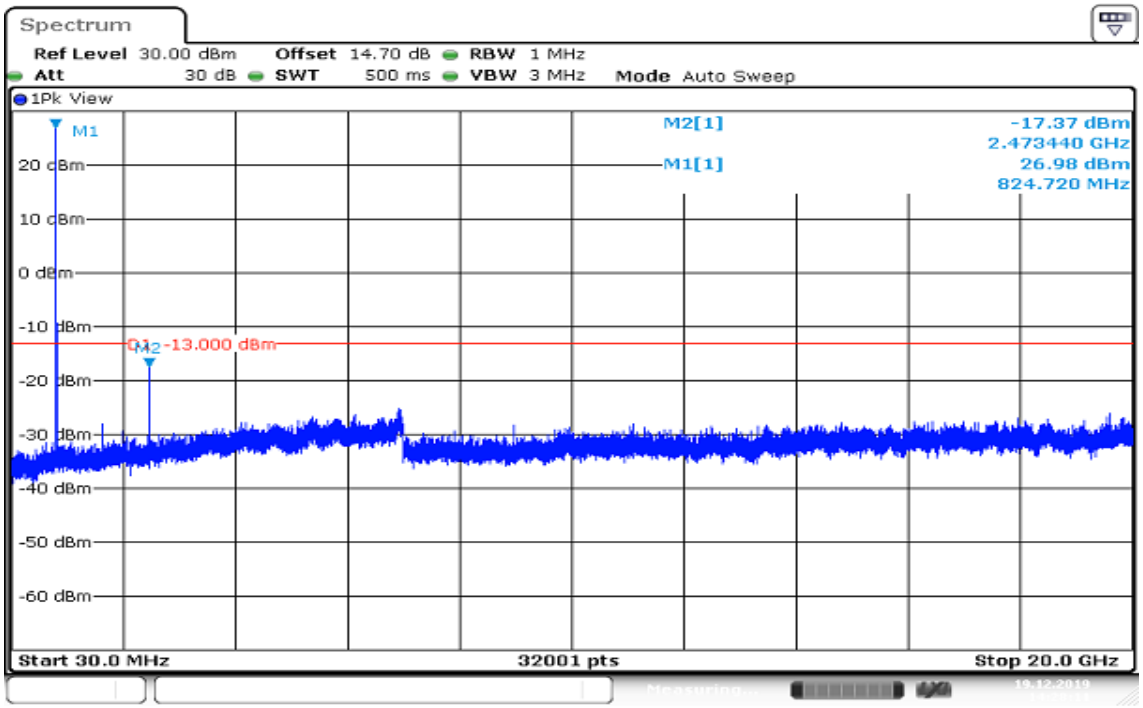
CH High



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

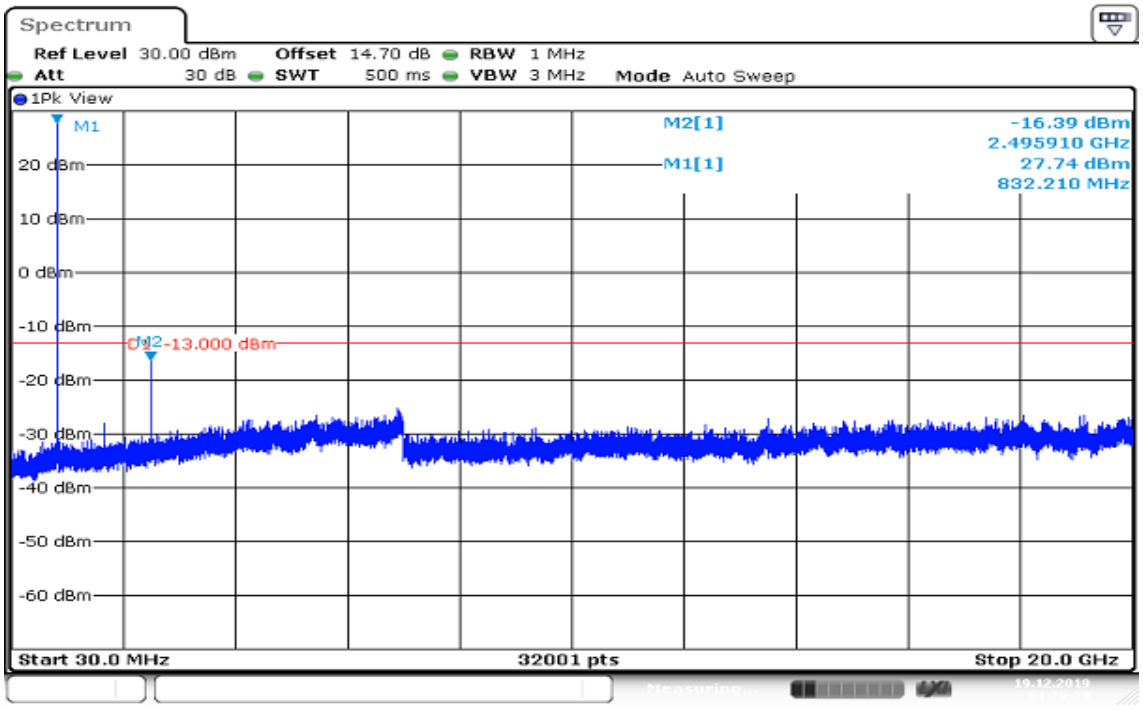
CHANNEL BANDWIDTH: 10MHz / 16QAM / 1RB

CH Low



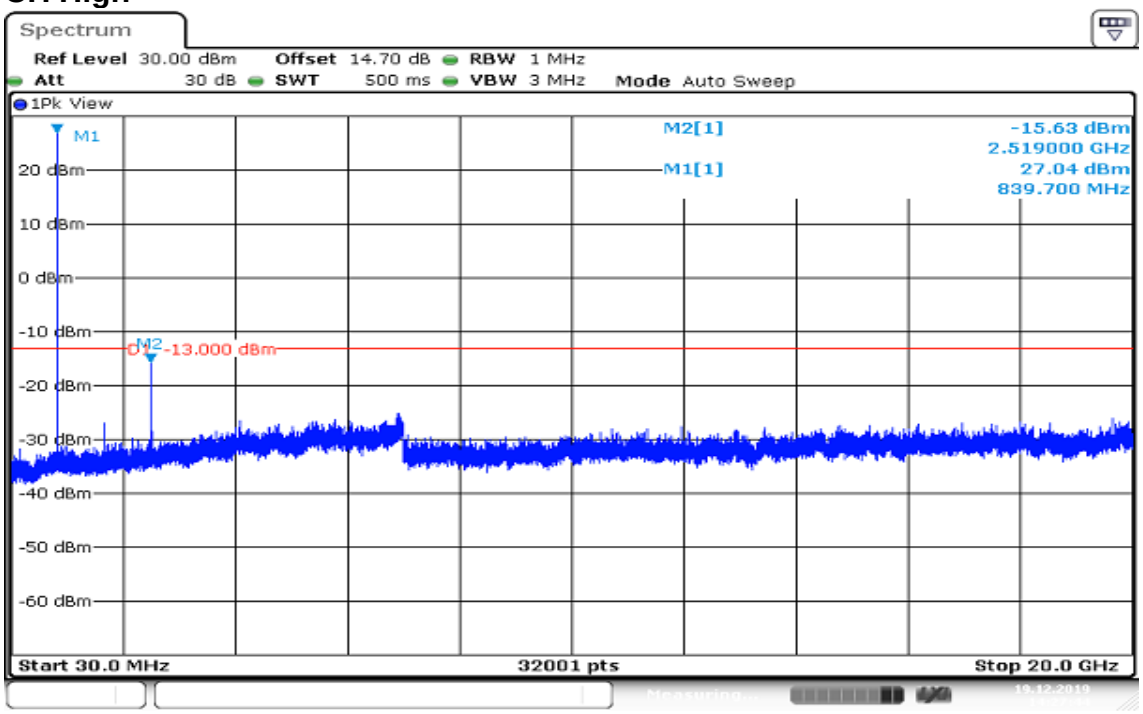
Date: 19.DEC.2019 14:28:11

CH Mid



Date: 19.DEC.2019 14:29:21

CH High



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

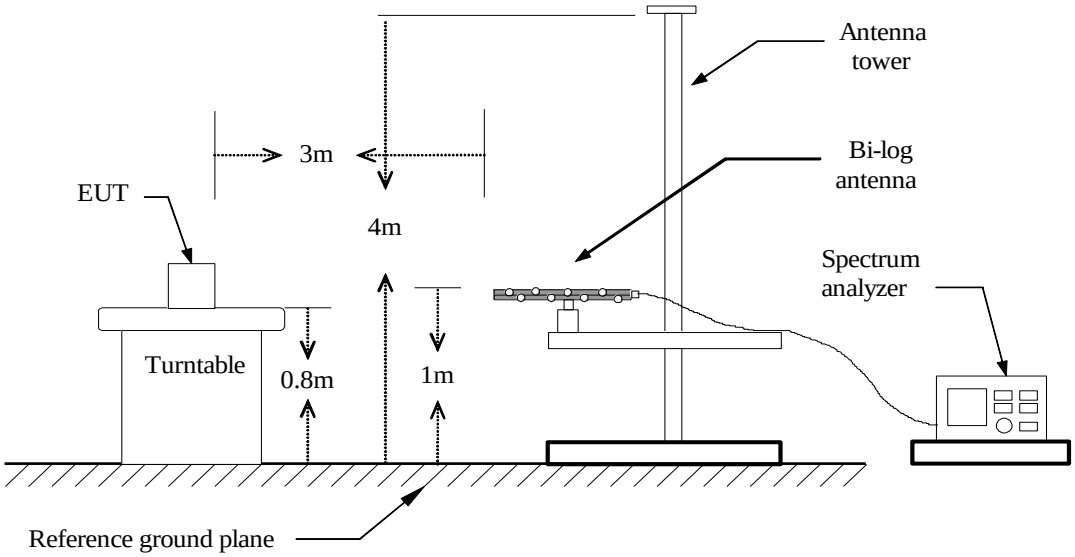
8.7 SPURIOUS RADIATION MEASUREMENT

LIMIT

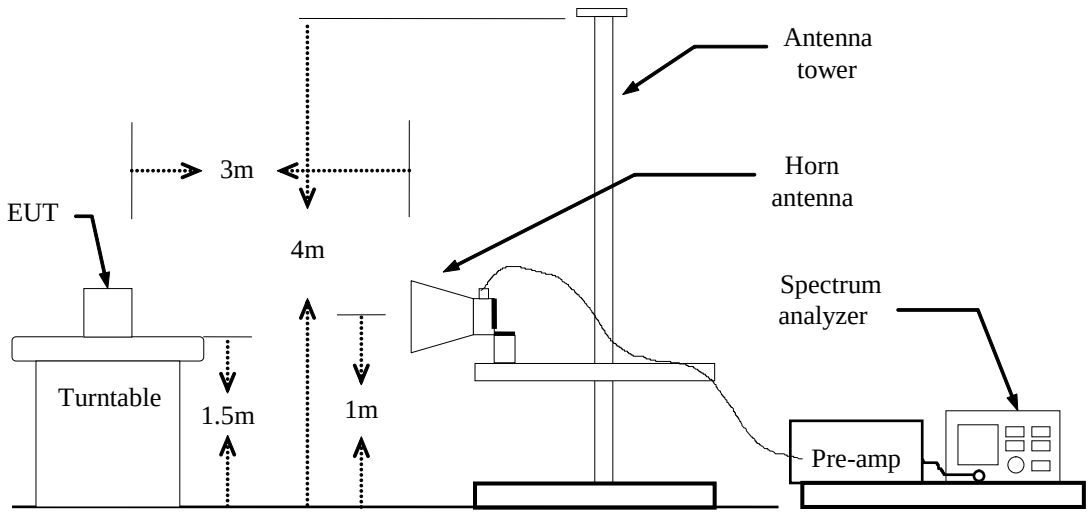
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to –13dBm

Test Configuration

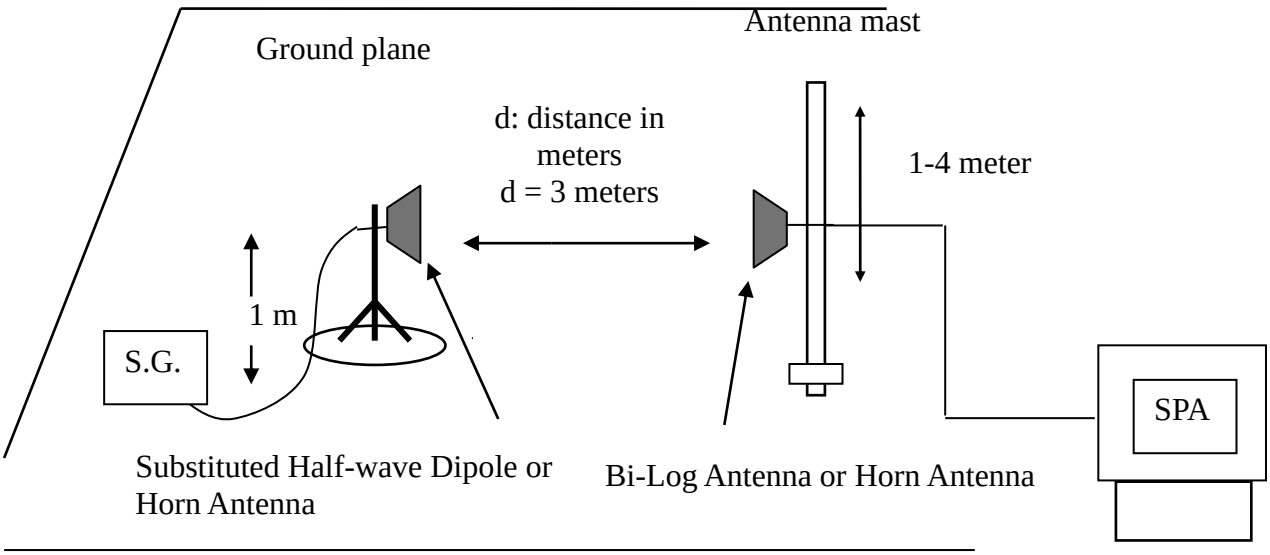
Below 1 GHz



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

ERP = S.G. output (dBm) + Antenna Gain (dBi) – Cable (dB)-2.15

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

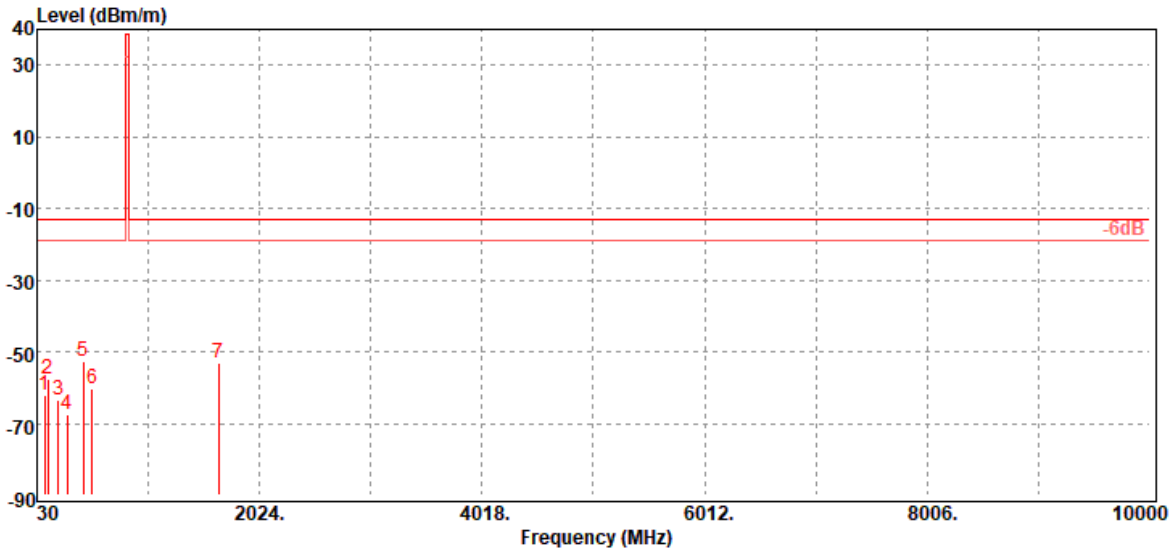
TEST RESULTS

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

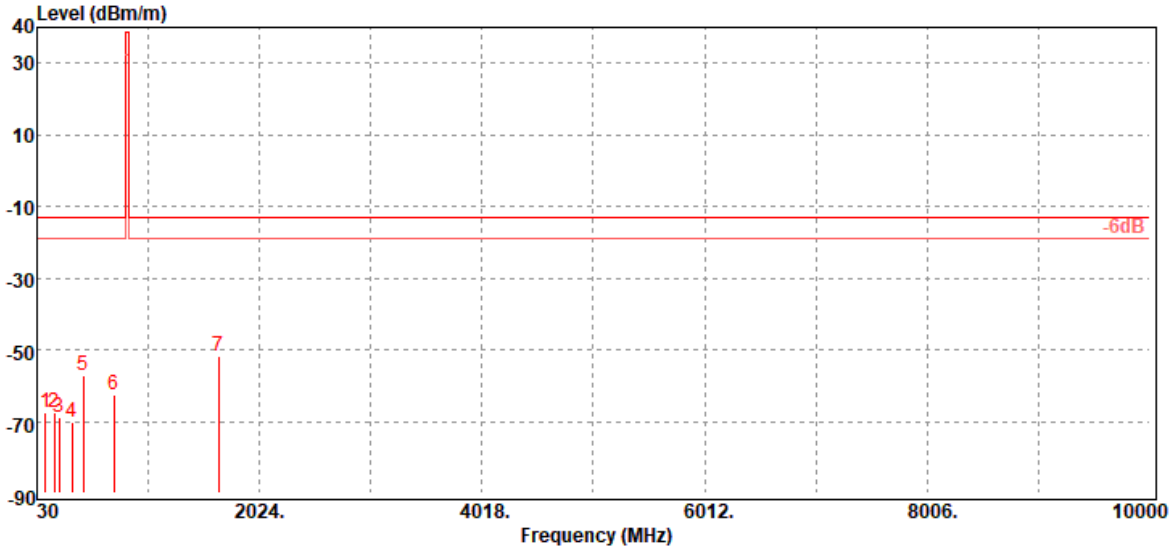
LTE Band 5 / BW: 10MHz / QPSK / RB =1, RB Offset = 0

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



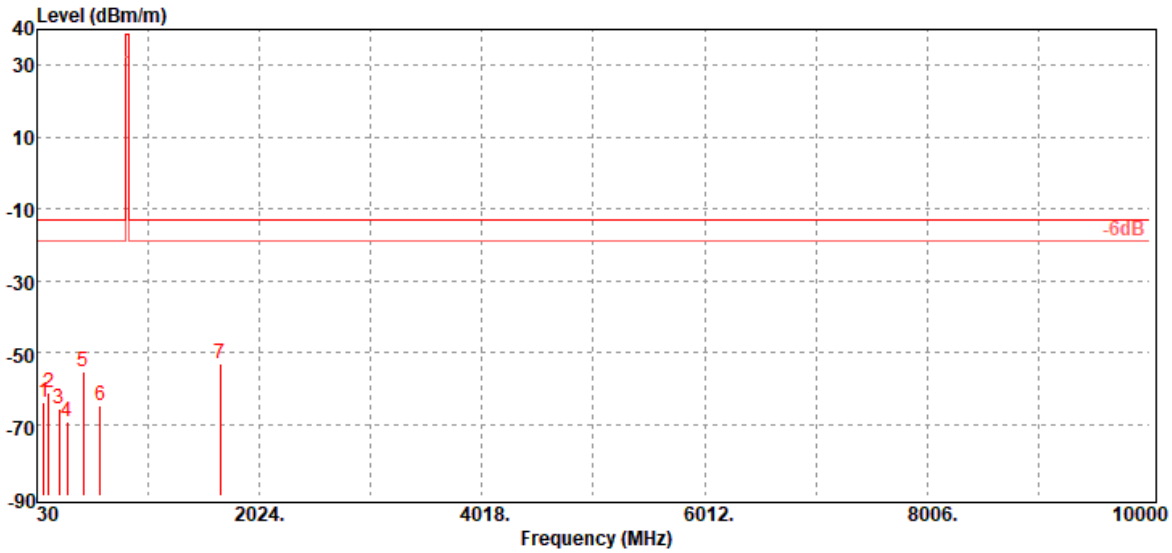
Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
97.90	-61.94	-53.24	-7.89	-0.81	-13.00	-48.94	V
129.91	-57.58	-46.46	-10.19	-0.93	-13.00	-44.58	V
219.15	-63.26	-60.02	-2.02	-1.22	-13.00	-50.26	V
299.66	-67.69	-64.25	-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

Operation Mode:	Tx / Low CH	**Test Date:**	January 8, 2020
Temperature:	18.6℃	**Tested by:**	Jerry Chang
Humidity:	59% RH	**Polarity:**	Hor.



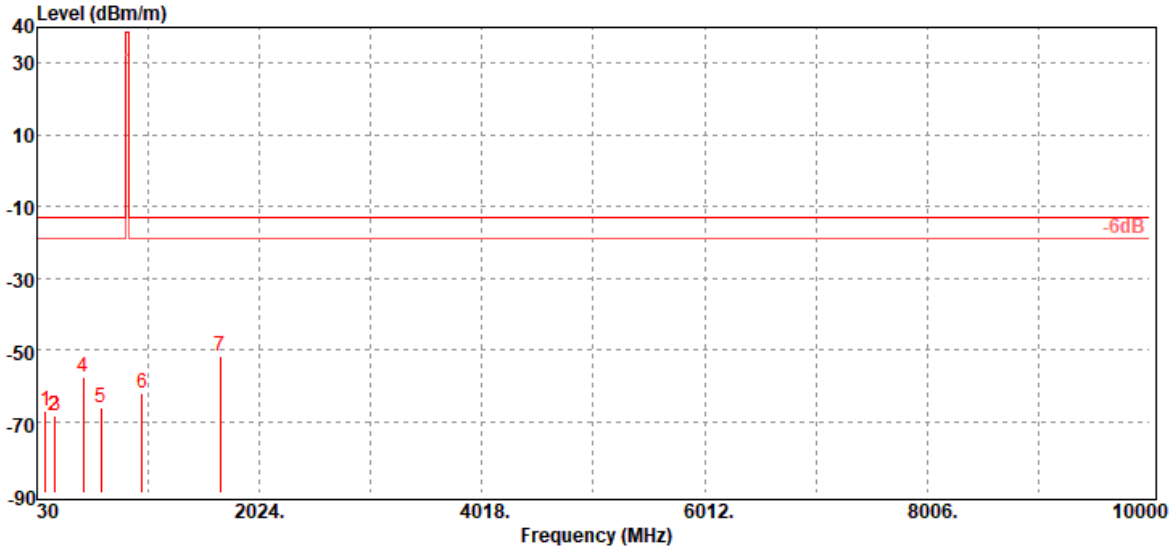
Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
105.66	-67.57	-57.36	-9.37	-0.84	-13.00	-54.57	H
188.11	-67.41	-62.38	-3.90	-1.13	-13.00	-54.41	H
225.94	-68.99	-65.82	-1.94	-1.23	-13.00	-55.99	H
342.34	-70.12	-67.09	-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℃	**Tested by:**	Jerry Chang
Humidity:	59% RH	**Polarity:**	Ver.



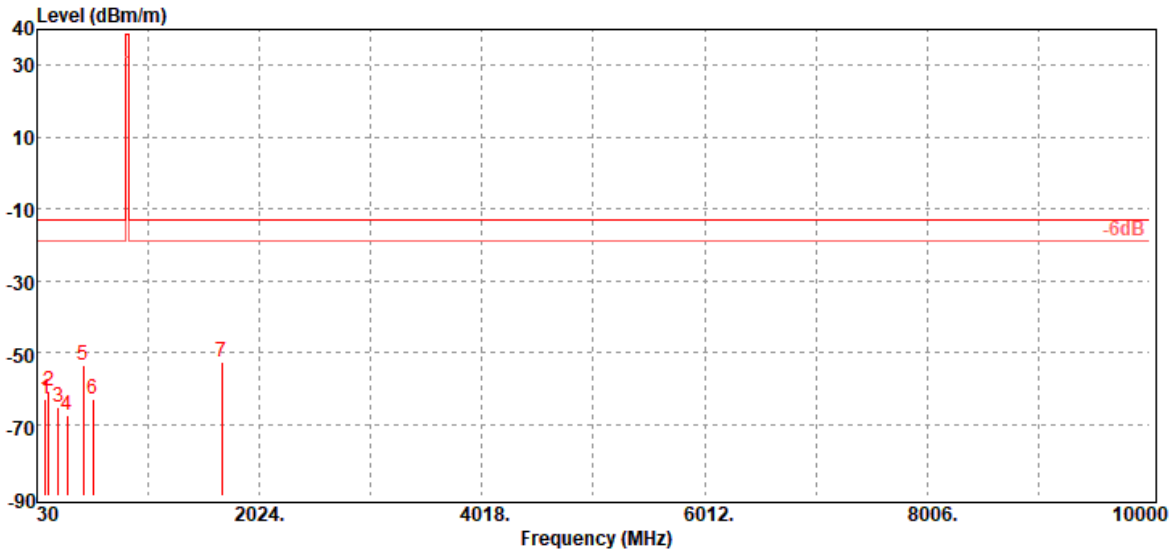
Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
88.20	-63.97	-56.04	-7.16	-0.77	-13.00	-50.97	V
134.76	-61.20	-50.9	-9.35	-0.95	-13.00	-48.20	V
225.94	-65.64	-62.47	-1.94	-1.23	-13.00	-52.64	V
299.66	-69.22	-65.78	-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

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



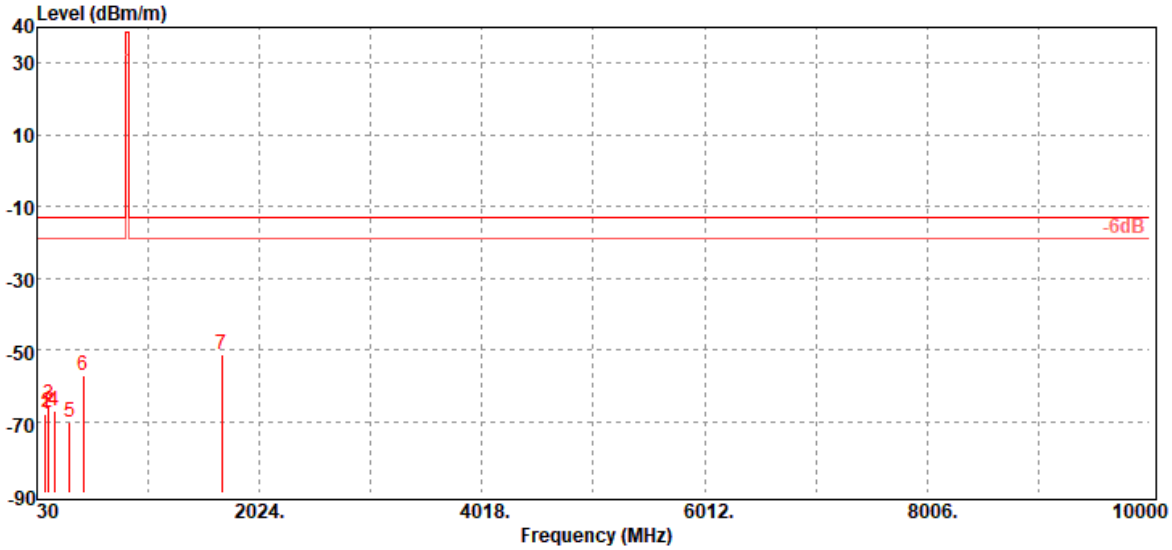
Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
105.66	-66.96	-56.75	-9.37	-0.84	-13.00	-53.96	H
182.29	-68.46	-63.15	-4.20	-1.11	-13.00	-55.46	H
191.99	-68.56	-63.32	-4.10	-1.14	-13.00	-55.56	H
447.10	-57.39	-53.54	-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℃	**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

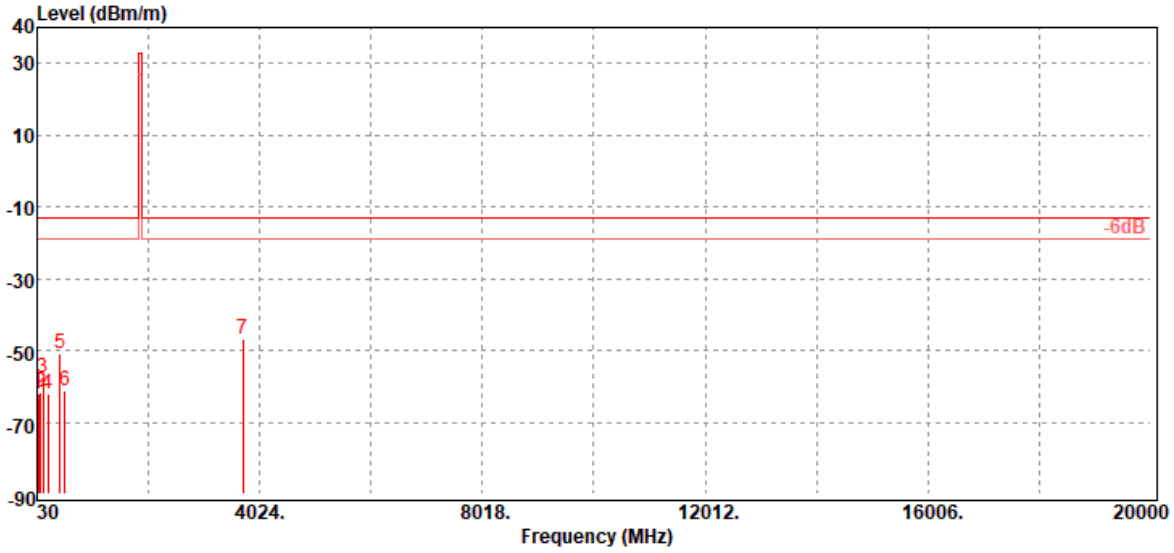
Operation Mode:	Tx / High CH	**Test Date:**	January 8, 2020
Temperature:	18.6℃	**Tested by:**	Jerry Chang
Humidity:	59% RH	**Polarity:**	Hor.



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

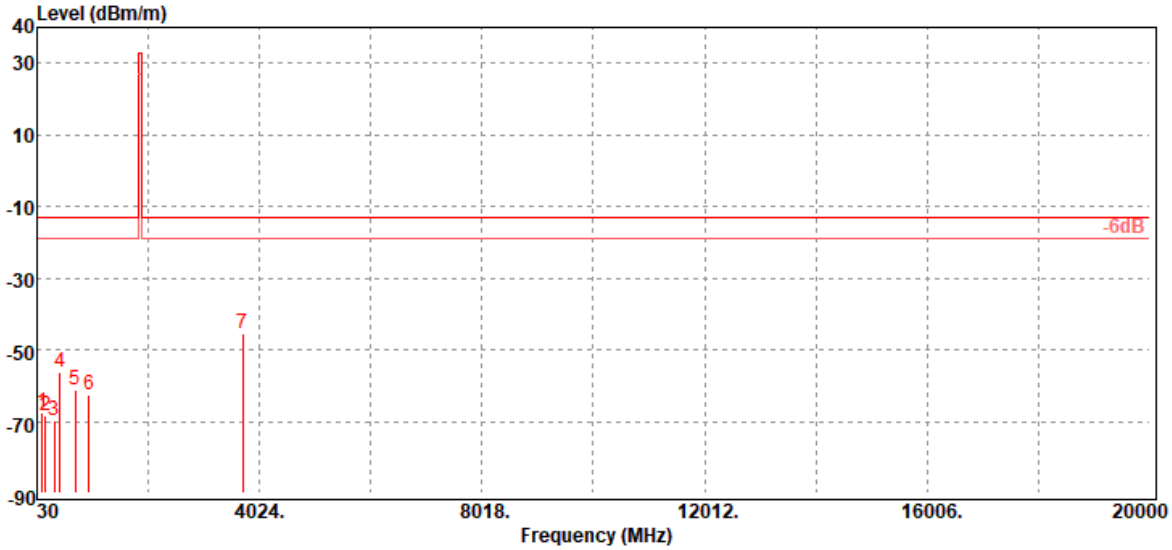
LTE Band 2 / BW: 20MHz / QPSK / RB =1, RB Offset = 0

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



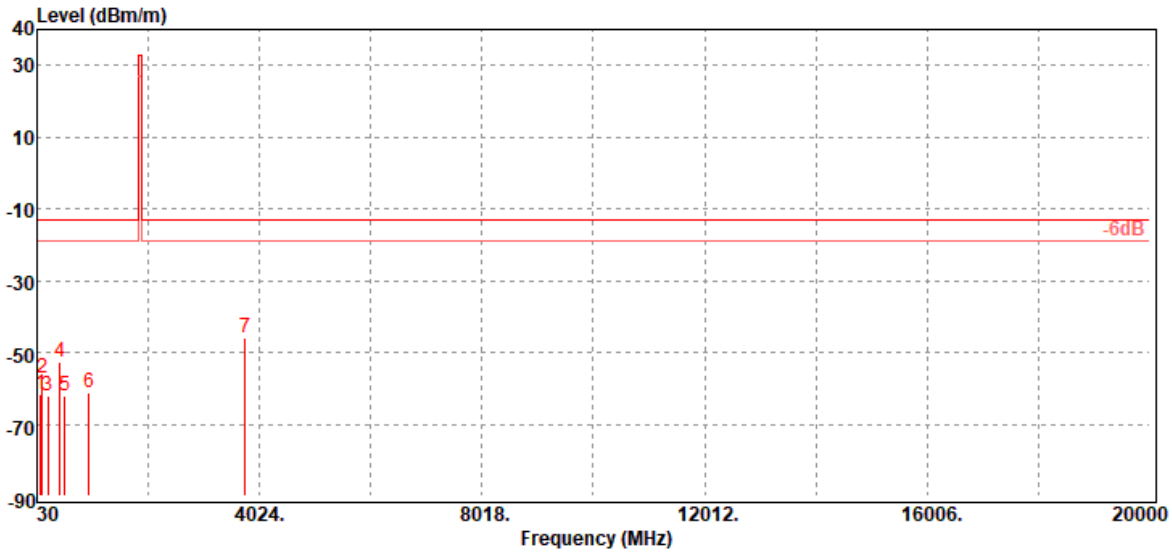
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)	Antenna Polarization (V/H)
52.31	-62.09	-50.46	-11.04	-0.59	-13.00	-49.09	V
97.90	-61.79	-53.09	-7.89	-0.81	-13.00	-48.79	V
131.85	-57.74	-46.99	-9.81	-0.94	-13.00	-44.74	V
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

Operation Mode:	Tx / Low CH	**Test Date:**	January 8, 2020
Temperature:	18.6℃	**Tested by:**	Jerry Chang
Humidity:	59% RH	**Polarity:**	Hor.



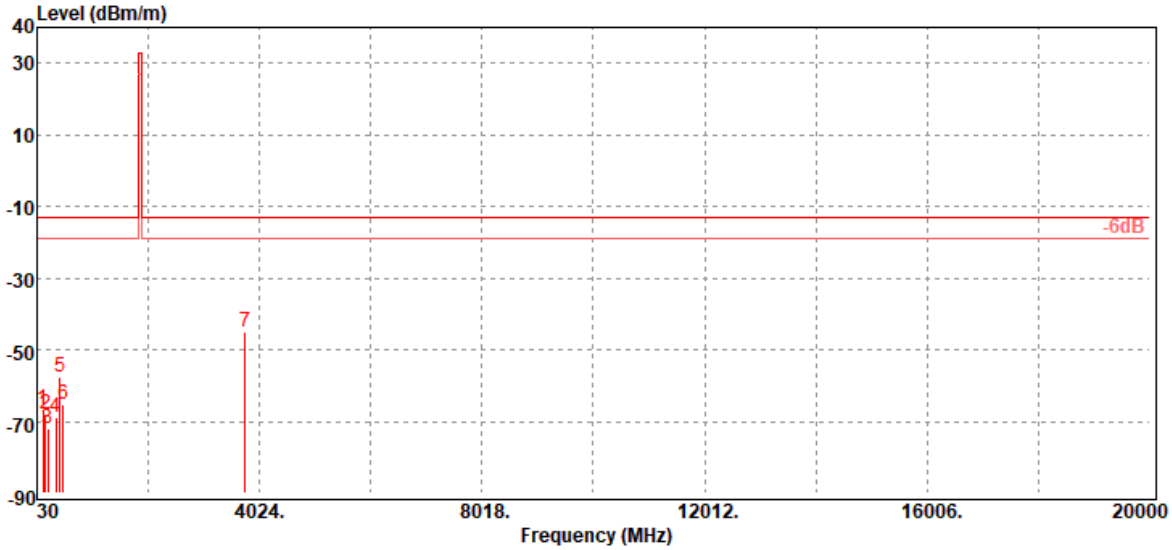
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)	Antenna Polarization (V/H)
124.09	-67.30	-55.89	-10.50	-0.91	-13.00	-54.30	H
178.41	-68.30	-62.64	-4.56	-1.10	-13.00	-55.30	H
343.31	-69.88	-66.85	-1.50	-1.53	-13.00	-56.88	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℃	**Tested by:**	Jerry Chang
Humidity:	59% RH	**Polarity:**	Ver.



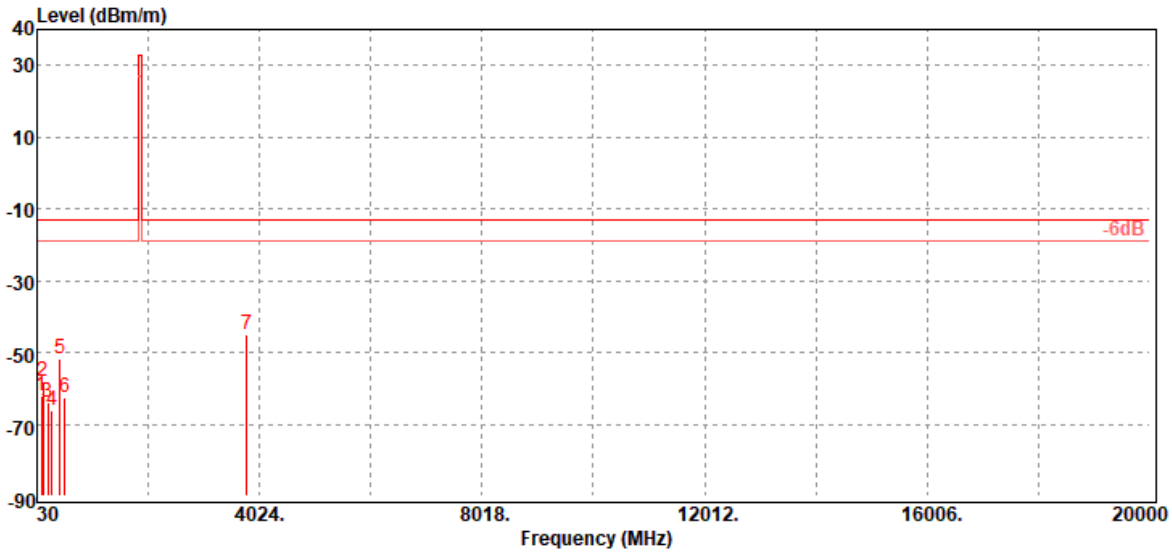
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)	Antenna Polarization (V/H)
88.20	-61.46	-53.53	-7.16	-0.77	-13.00	-48.46	V
129.91	-57.33	-46.21	-10.19	-0.93	-13.00	-44.33	V
225.94	-62.15	-58.98	-1.94	-1.23	-13.00	-49.15	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

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



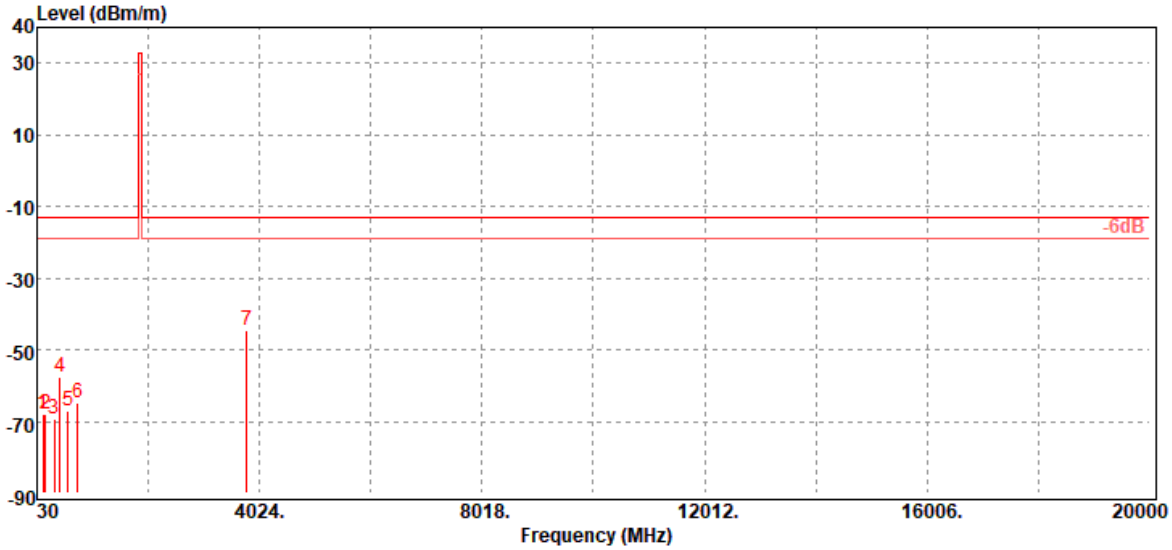
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)	Antenna Polarization (V/H)
134.76	-66.62	-56.32	-9.35	-0.95	-13.00	-53.62	H
177.44	-68.03	-62.28	-4.66	-1.09	-13.00	-55.03	H
227.88	-71.91	-68.65	-2.02	-1.24	-13.00	-58.91	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℃	**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℃	**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 -