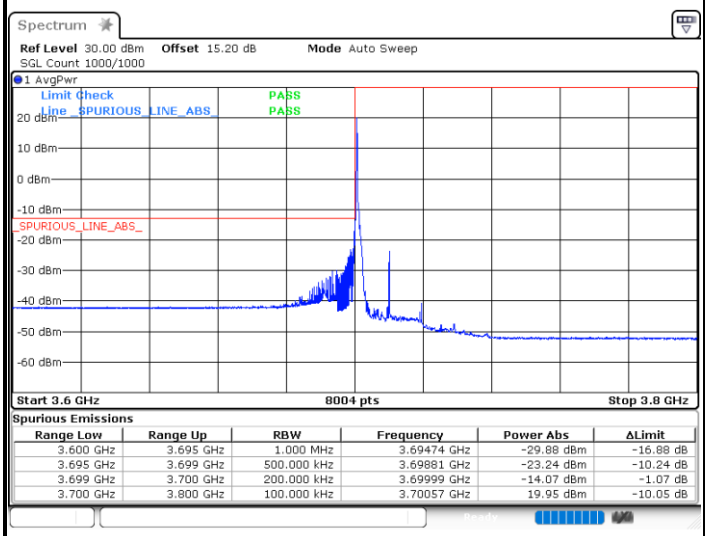
FR1 UL-MIMO n77 / 20MHz / CP-OFDM QPSK (M2)

Lowest Band Edge / 1 RB

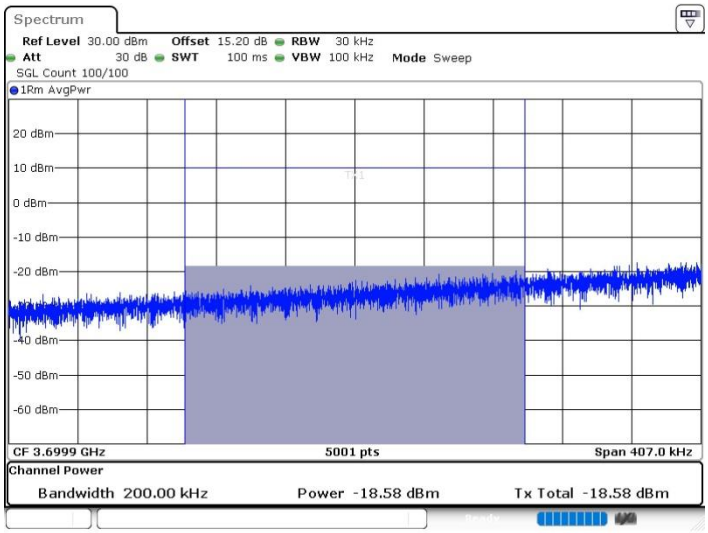


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69474 GHz	-29.88 dBm	-16.88 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69881 GHz	-23.24 dBm	-10.24 dB
3.699 GHz	3.700 GHz	200.000 kHz	3.69999 GHz	-14.07 dBm	-1.07 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70057 GHz	19.95 dBm	-10.05 dB

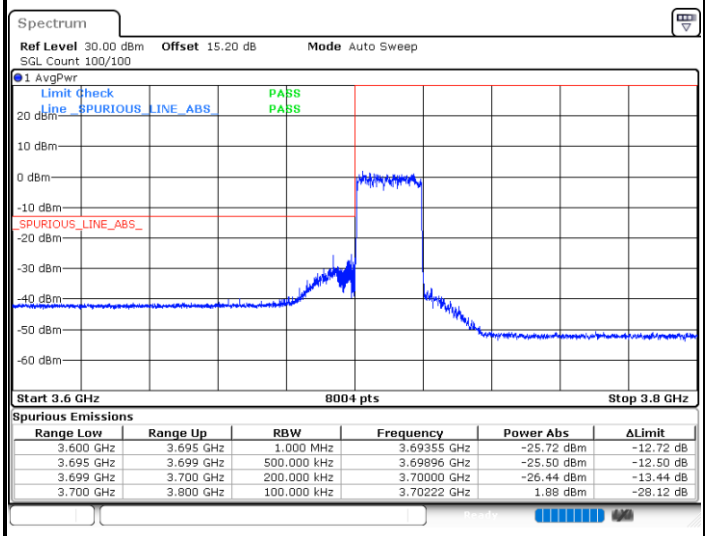
Date: 14.MAR.2021 01:55:44

Channel Power < -13dBm Pass



Date: 14.MAR.2021 02:05:18

Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69355 GHz	-25.72 dBm	-12.72 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69896 GHz	-25.50 dBm	-12.50 dB
3.699 GHz	3.700 GHz	200.000 kHz	3.70000 GHz	-26.44 dBm	-13.44 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70222 GHz	1.88 dBm	-28.12 dB

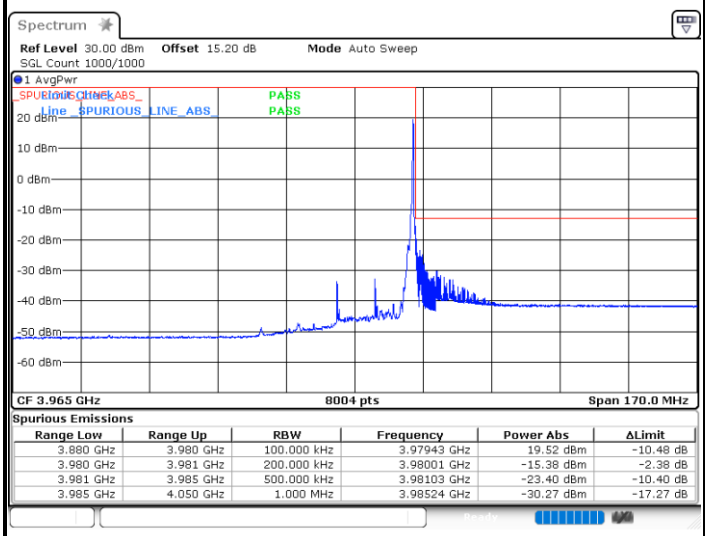
Date: 14.MAR.2021 01:59:46

Channel Power < -13dBm Pass

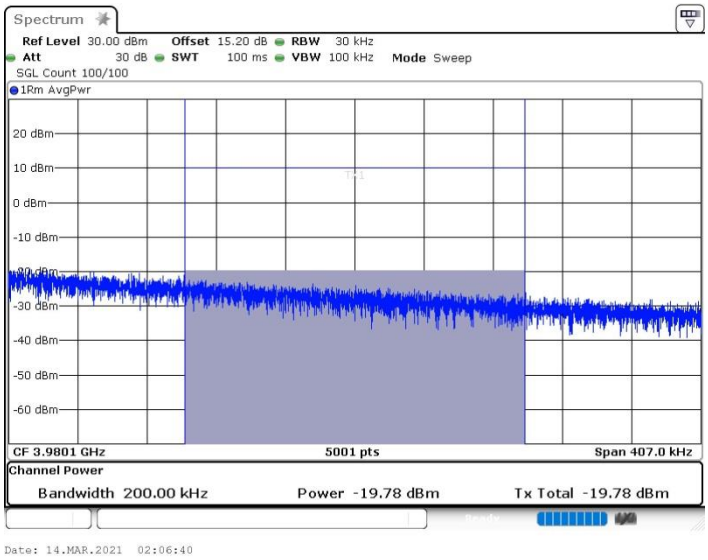
/

FR1 UL-MIMO n77 / 20MHz / CP-OFDM QPSK (M2)

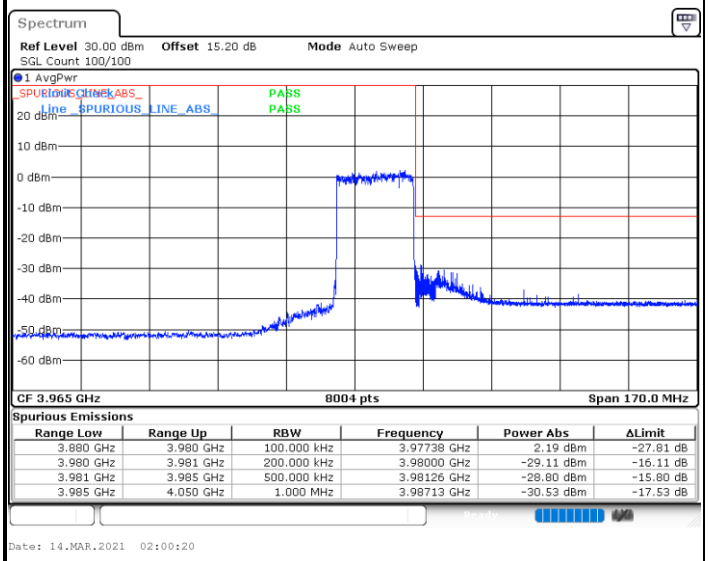
Highest Band Edge / 1 RB



Channel Power < -13dBm Pass



Highest Band Edge / Full RB



Channel Power < -13dBm Pass

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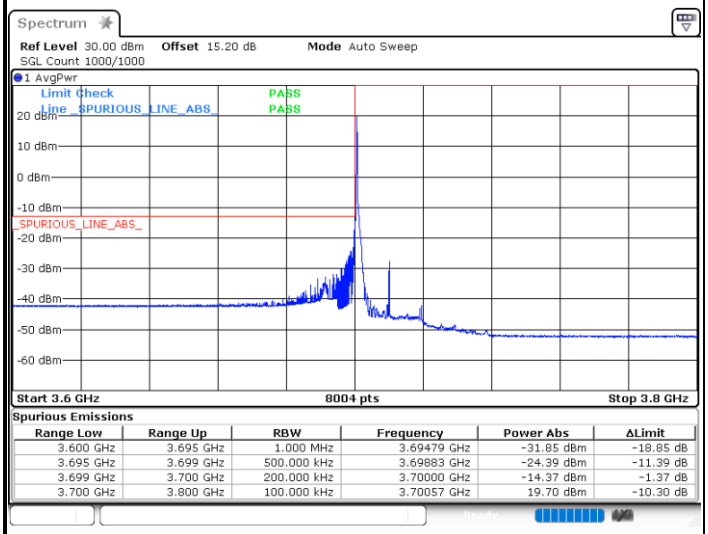
FR1 UL-MIMO n77 / 20MHz / CP-OFDM QPSK (M)

Lowest Band Edge / 1 RB

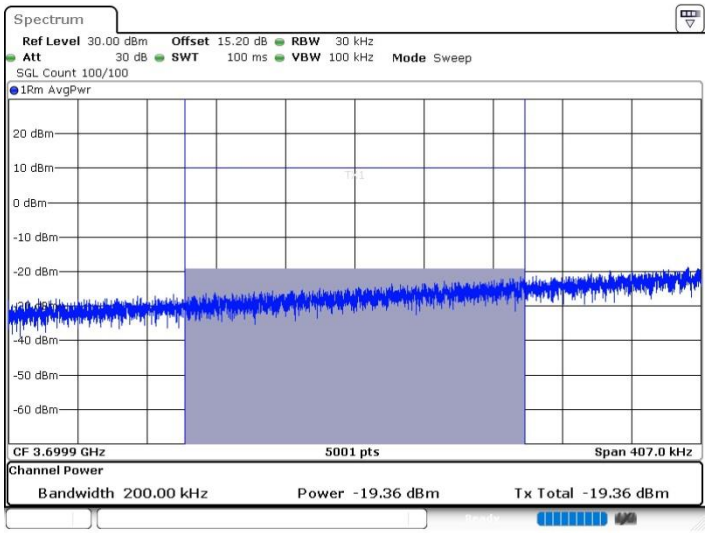


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69479 GHz	-31.85 dBm	-18.85 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69883 GHz	-24.39 dBm	-11.39 dB
3.699 GHz	3.700 GHz	200.000 kHz	3.70000 GHz	-14.37 dBm	-1.37 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70057 GHz	19.70 dBm	-10.30 dB

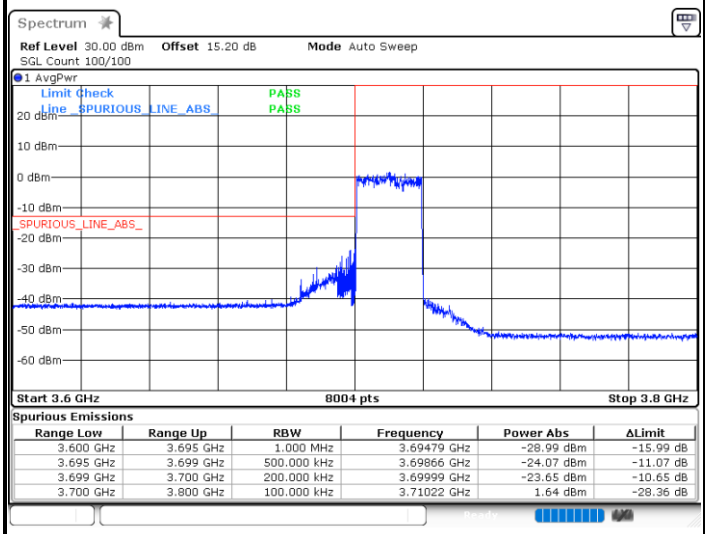
Date: 14.MAR.2021 03:21:21

Channel Power < -13dBm Pass



Date: 14.MAR.2021 04:36:04

Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69479 GHz	-28.99 dBm	-15.99 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69866 GHz	-24.07 dBm	-11.07 dB
3.699 GHz	3.700 GHz	200.000 kHz	3.69999 GHz	-23.65 dBm	-10.65 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.71022 GHz	1.64 dBm	-28.36 dB

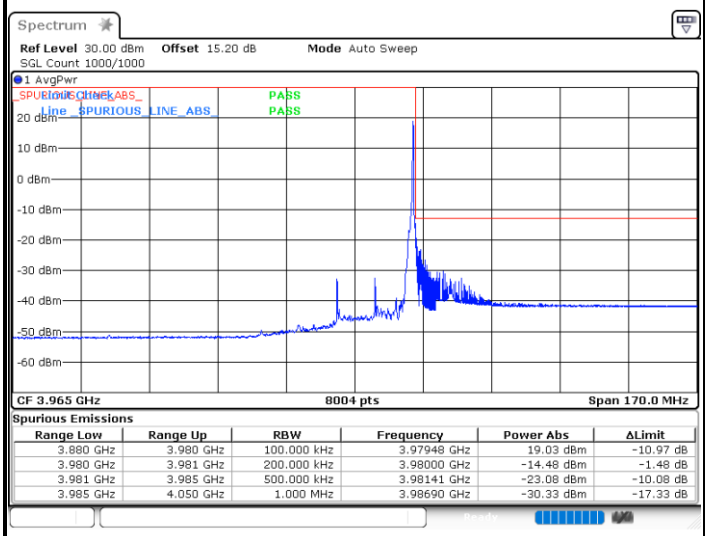
Date: 14.MAR.2021 03:43:13

Channel Power < -13dBm Pass

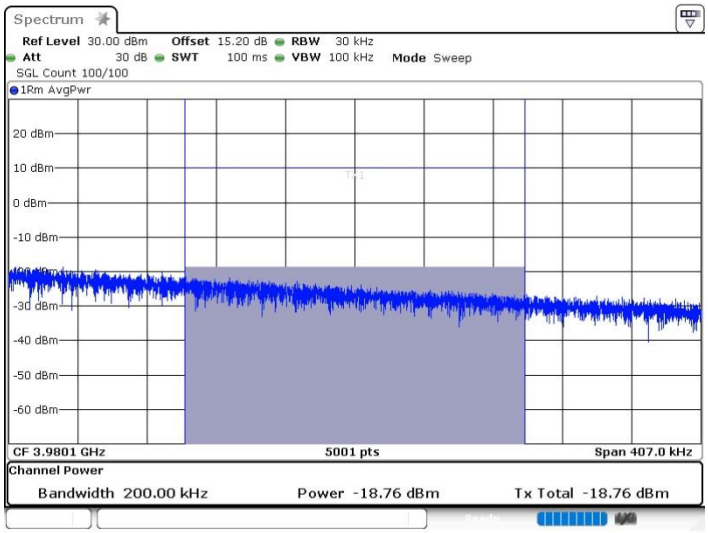
/

FR1 UL-MIMO n77 / 20MHz / CP-OFDM QPSK (M)

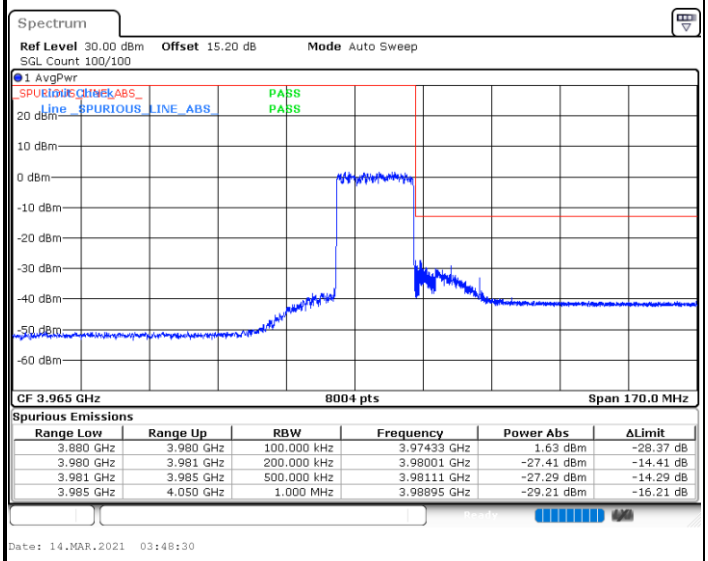
Highest Band Edge / 1 RB



Channel Power < -13dBm Pass



Highest Band Edge / Full RB



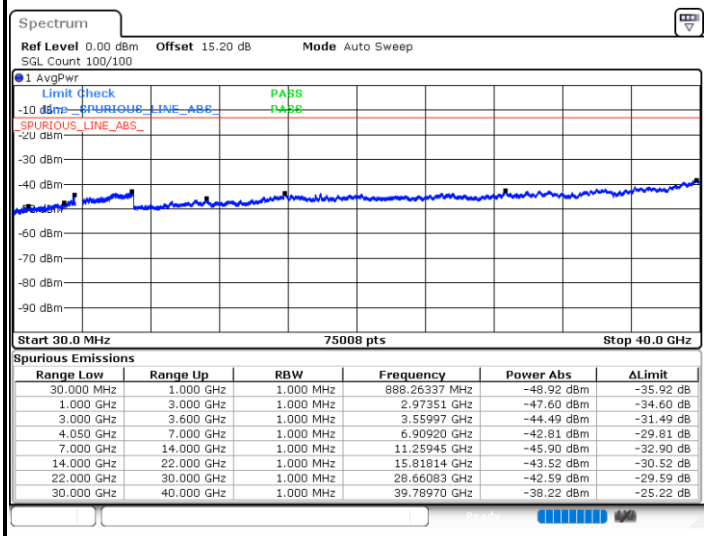
Channel Power < -13dBm Pass

/

Conducted Spurious Emission

FR1 UL-MIMO n77 / 10MHz / CP-OFDM QPSK (M2)

Lowest Channel / 1RB

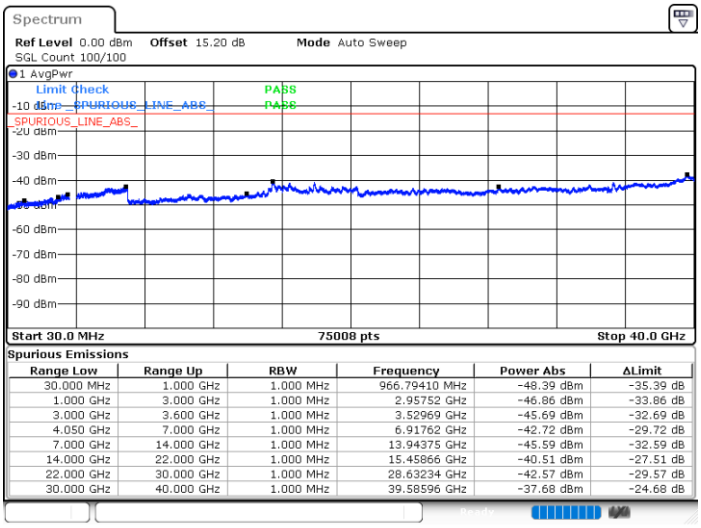


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	888.26337 MHz	-48.92 dBm	-35.92 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97351 GHz	-47.60 dBm	-34.60 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.55997 GHz	-44.49 dBm	-31.49 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.90920 GHz	-42.81 dBm	-29.81 dB
7.000 GHz	14.000 GHz	1.000 MHz	11.25945 GHz	-45.90 dBm	-32.90 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.81814 GHz	-43.52 dBm	-30.52 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66083 GHz	-42.59 dBm	-29.59 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.78970 GHz	-38.22 dBm	-25.22 dB

Date: 3.MAR.2021 03:18:09

Middle Channel / 1RB

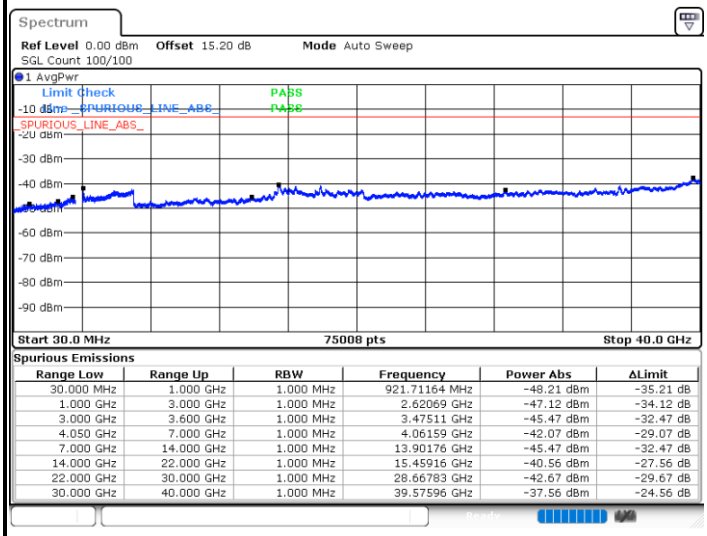


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	966.79410 MHz	-48.39 dBm	-35.39 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95752 GHz	-46.86 dBm	-33.86 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.52969 GHz	-45.69 dBm	-32.69 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91762 GHz	-42.72 dBm	-29.72 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.94375 GHz	-45.59 dBm	-32.59 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.45866 GHz	-40.51 dBm	-27.51 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.63234 GHz	-42.57 dBm	-29.57 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58596 GHz	-37.68 dBm	-24.68 dB

Date: 13.FEB.2021 19:44:05

Highest Channel / 1RB



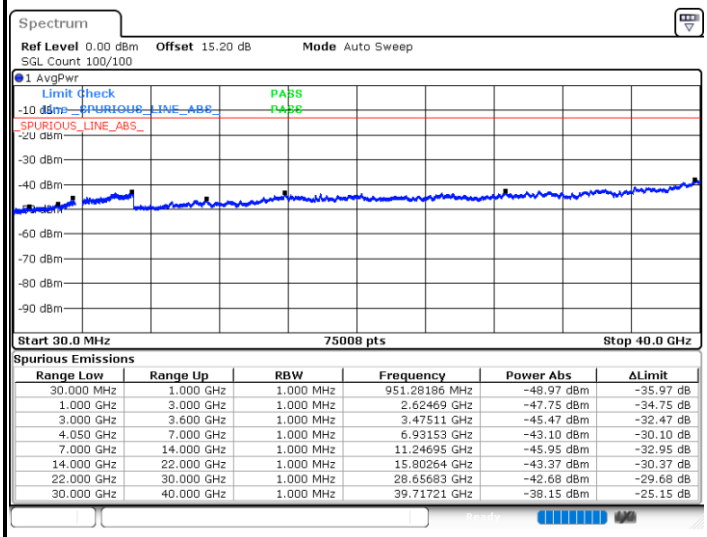
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	921.71164 MHz	-48.21 dBm	-35.21 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.62069 GHz	-47.12 dBm	-34.12 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.47511 GHz	-45.47 dBm	-32.47 dB
4.050 GHz	7.000 GHz	1.000 MHz	4.06159 GHz	-42.07 dBm	-29.07 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.90176 GHz	-45.47 dBm	-32.47 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.45916 GHz	-40.56 dBm	-27.56 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66783 GHz	-42.67 dBm	-29.67 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57596 GHz	-37.56 dBm	-24.56 dB

Date: 13.FEB.2021 19:50:50

FR1 UL-MIMO n77 / 10MHz / CP-OFDM QPSK (M)

Lowest Channel / 1RB

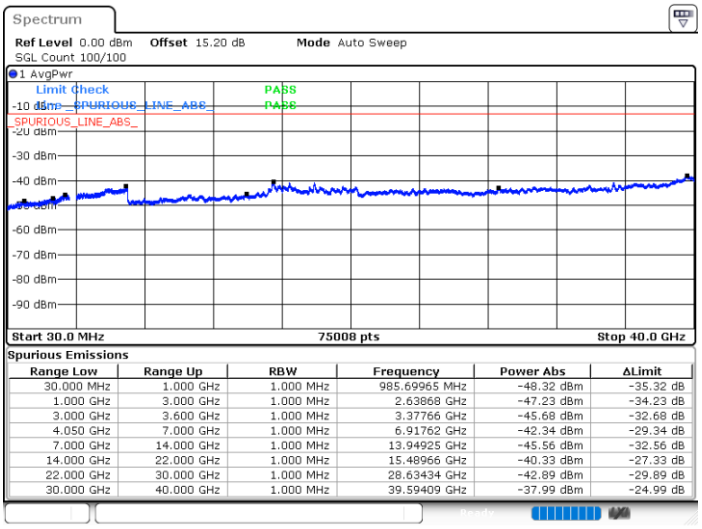


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	951.28186 MHz	-48.97 dBm	-35.97 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.62469 GHz	-47.75 dBm	-34.75 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.47511 GHz	-45.47 dBm	-32.47 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.93153 GHz	-43.10 dBm	-30.10 dB
7.000 GHz	14.000 GHz	1.000 MHz	11.24695 GHz	-45.95 dBm	-32.95 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.80264 GHz	-43.37 dBm	-30.37 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65683 GHz	-42.68 dBm	-29.68 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.71721 GHz	-38.15 dBm	-25.15 dB

Date: 3.MAR.2021 03:27:22

Middle Channel / 1RB

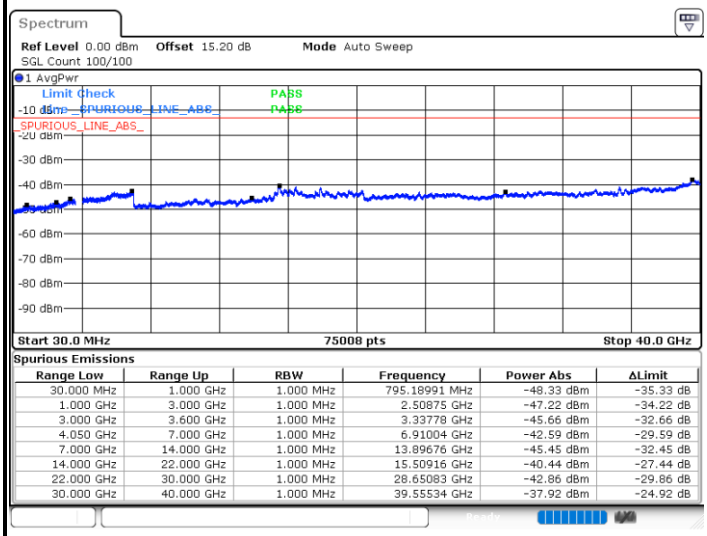


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	985.69965 MHz	-48.32 dBm	-35.32 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63868 GHz	-47.23 dBm	-34.23 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.37766 GHz	-45.68 dBm	-32.68 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91762 GHz	-42.34 dBm	-29.34 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.94925 GHz	-45.56 dBm	-32.56 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.48966 GHz	-40.33 dBm	-27.33 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.63434 GHz	-42.89 dBm	-29.89 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.59409 GHz	-37.99 dBm	-24.99 dB

Date: 13.FEB.2021 07:46:51

Highest Channel / 1RB



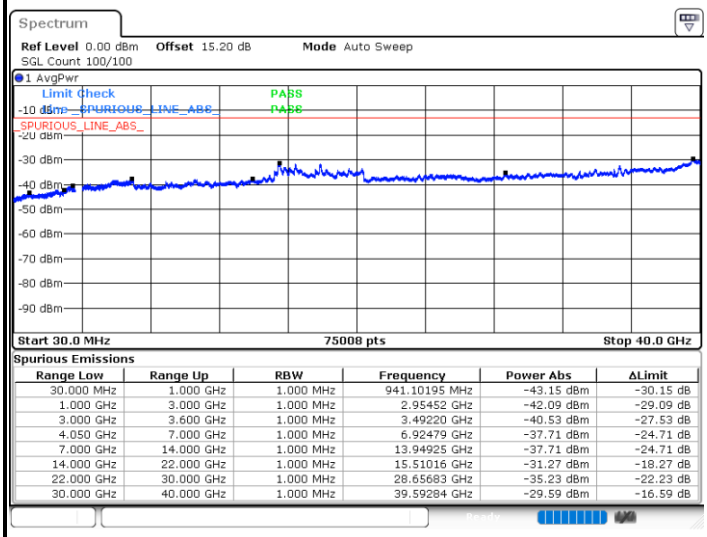
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	795.18991 MHz	-48.33 dBm	-35.33 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50875 GHz	-47.22 dBm	-34.22 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.33778 GHz	-45.66 dBm	-32.66 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91004 GHz	-42.59 dBm	-29.59 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.89676 GHz	-45.45 dBm	-32.45 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50916 GHz	-40.44 dBm	-27.44 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65083 GHz	-42.86 dBm	-29.86 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.55534 GHz	-37.92 dBm	-24.92 dB

Date: 13.FEB.2021 07:50:22

FR1 UL-MIMO n77 / 15MHz / CP-OFDM QPSK (M2)

Lowest Channel / 1RB

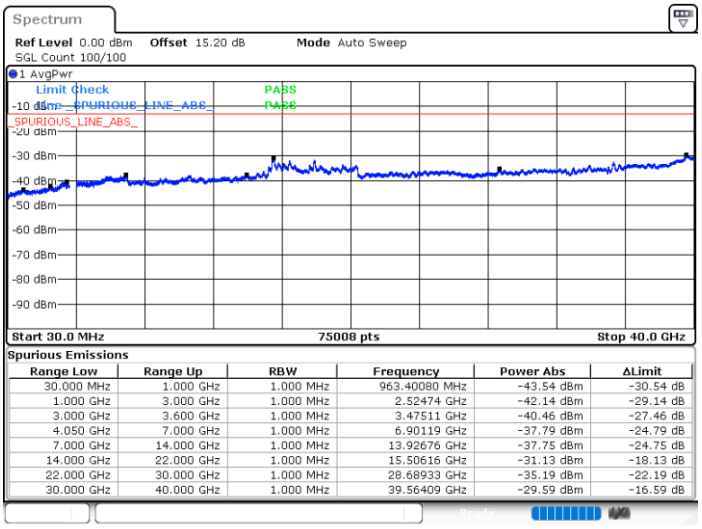


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	941.10195 MHz	-43.15 dBm	-30.15 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95452 GHz	-42.09 dBm	-29.09 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.49220 GHz	-40.53 dBm	-27.53 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.92479 GHz	-37.71 dBm	-24.71 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.94925 GHz	-37.71 dBm	-24.71 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.51016 GHz	-31.27 dBm	-18.27 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65683 GHz	-35.23 dBm	-22.23 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.59284 GHz	-29.59 dBm	-16.59 dB

Date: 13.FEB.2021 19:15:24

Middle Channel / 1RB

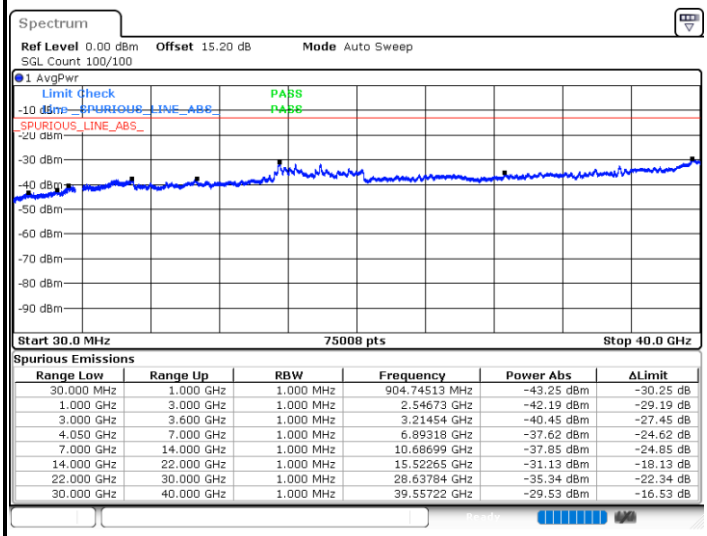


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	963.40080 MHz	-43.54 dBm	-30.54 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.52474 GHz	-42.14 dBm	-29.14 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.47511 GHz	-40.46 dBm	-27.46 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.90119 GHz	-37.79 dBm	-24.79 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.92676 GHz	-37.75 dBm	-24.75 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50616 GHz	-31.13 dBm	-18.13 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.68933 GHz	-35.19 dBm	-22.19 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.56409 GHz	-29.59 dBm	-16.59 dB

Date: 13.FEB.2021 19:26:40

Highest Channel / 1RB



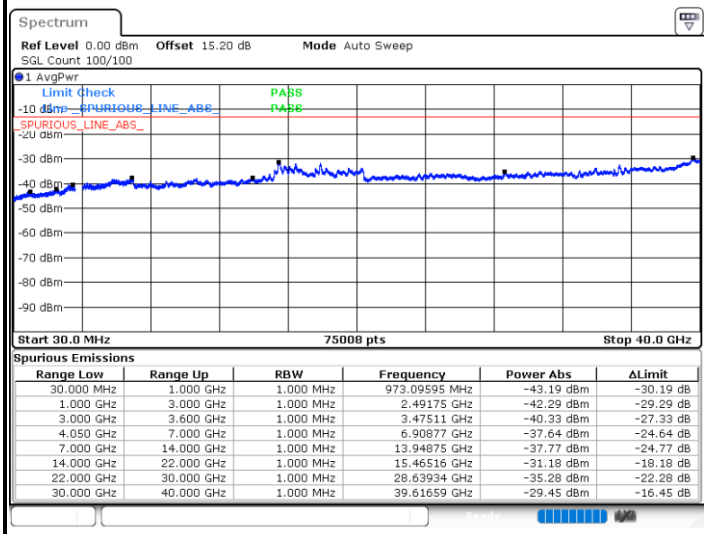
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	904.74513 MHz	-43.25 dBm	-30.25 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.54673 GHz	-42.19 dBm	-29.19 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.21454 GHz	-40.45 dBm	-27.45 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.89318 GHz	-37.62 dBm	-24.62 dB
7.000 GHz	14.000 GHz	1.000 MHz	10.68699 GHz	-37.85 dBm	-24.85 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.52265 GHz	-31.13 dBm	-18.13 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.63784 GHz	-35.34 dBm	-22.34 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.55722 GHz	-29.53 dBm	-16.53 dB

Date: 13.FEB.2021 19:30:45

FR1 UL-MIMO n77 / 15MHz / CP-OFDM QPSK (M)

Lowest Channel / 1RB

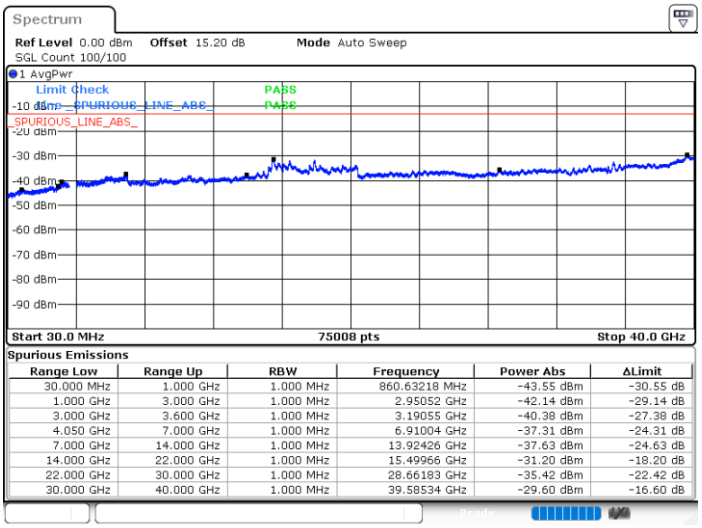


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	973.09595 MHz	-43.19 dBm	-30.19 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.49175 GHz	-42.29 dBm	-29.29 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.47511 GHz	-40.33 dBm	-27.33 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.90877 GHz	-37.64 dBm	-24.64 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.94875 GHz	-37.77 dBm	-24.77 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.46516 GHz	-31.18 dBm	-18.18 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.63934 GHz	-35.28 dBm	-22.28 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.61659 GHz	-29.45 dBm	-16.45 dB

Date: 13.FEB.2021 06:01:19

Middle Channel / 1RB

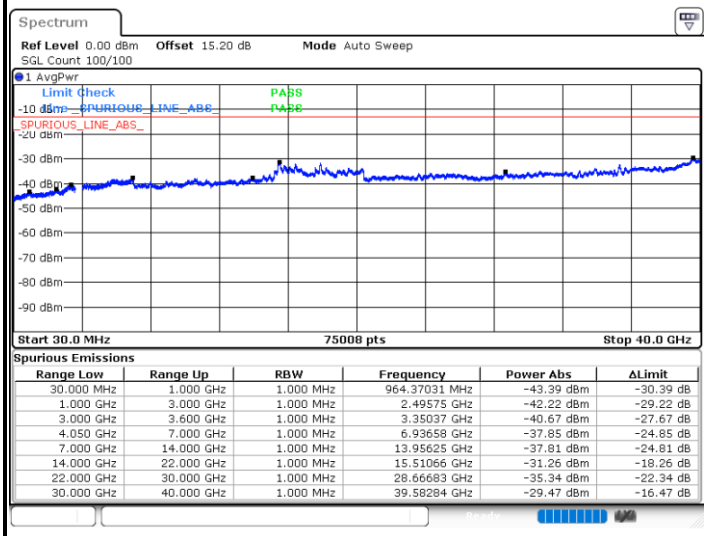


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	860.63218 MHz	-43.55 dBm	-30.55 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95052 GHz	-42.14 dBm	-29.14 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.19055 GHz	-40.38 dBm	-27.38 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91004 GHz	-37.31 dBm	-24.31 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.92426 GHz	-37.63 dBm	-24.63 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.49966 GHz	-31.20 dBm	-18.20 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66183 GHz	-35.42 dBm	-22.42 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58534 GHz	-29.60 dBm	-16.60 dB

Date: 13.FEB.2021 06:03:38

Highest Channel / 1RB



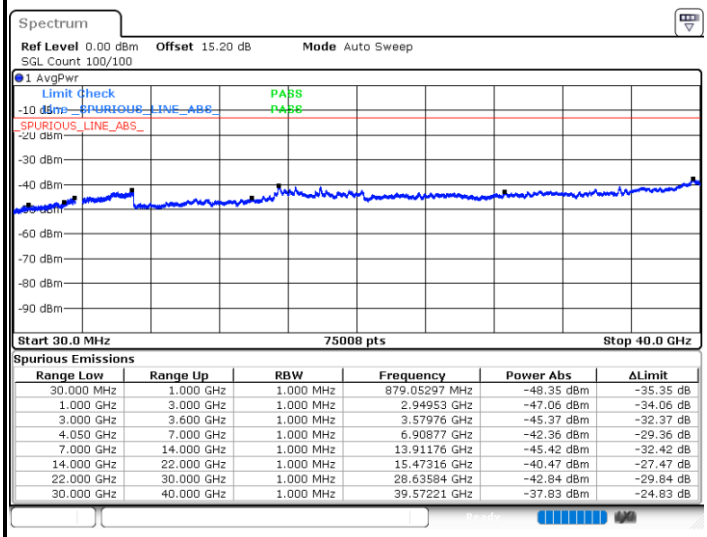
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	964.37031 MHz	-43.39 dBm	-30.39 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.49575 GHz	-42.22 dBm	-29.22 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.35037 GHz	-40.67 dBm	-27.67 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.93658 GHz	-37.85 dBm	-24.85 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.95625 GHz	-37.81 dBm	-24.81 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.51066 GHz	-31.26 dBm	-18.26 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66683 GHz	-35.34 dBm	-22.34 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58284 GHz	-29.47 dBm	-16.47 dB

Date: 13.FEB.2021 06:15:40

FR1 UL-MIMO n77 / 20MHz / CP-OFDM QPSK (M2)

Lowest Channel / 1RB

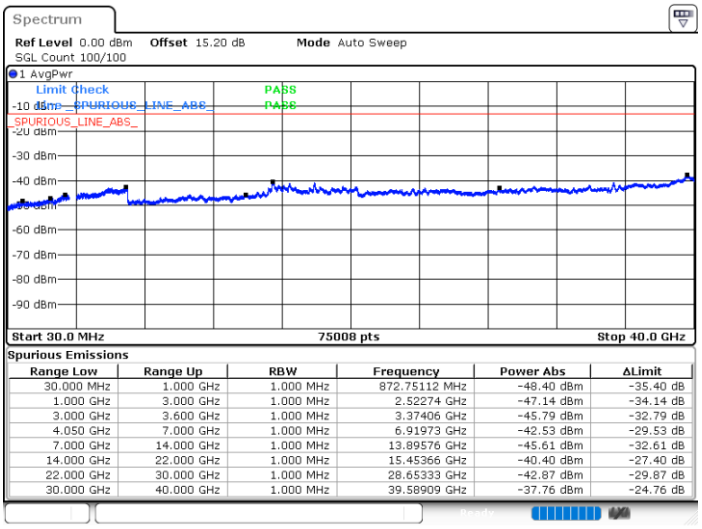


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	879.05297 MHz	-48.35 dBm	-35.35 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.94953 GHz	-47.06 dBm	-34.06 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.57976 GHz	-45.37 dBm	-32.37 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.90877 GHz	-42.36 dBm	-29.36 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.91176 GHz	-45.42 dBm	-32.42 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.47316 GHz	-40.47 dBm	-27.47 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.63584 GHz	-42.84 dBm	-29.84 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57221 GHz	-37.83 dBm	-24.83 dB

Date: 13.FEB.2021 18:01:51

Middle Channel / 1RB

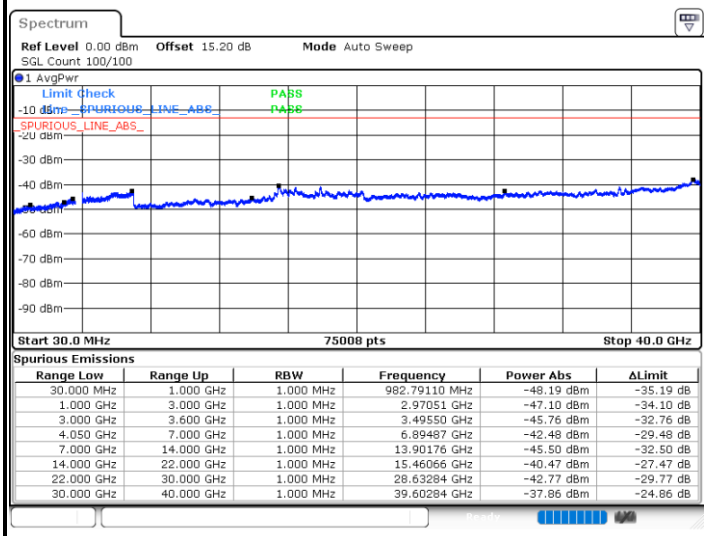


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	872.75112 MHz	-48.40 dBm	-35.40 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.52274 GHz	-47.14 dBm	-34.14 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.37406 GHz	-45.79 dBm	-32.79 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91973 GHz	-42.53 dBm	-29.53 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.89576 GHz	-45.61 dBm	-32.61 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.45366 GHz	-40.40 dBm	-27.40 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65333 GHz	-42.87 dBm	-29.87 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58909 GHz	-37.76 dBm	-24.76 dB

Date: 13.FEB.2021 17:50:00

Highest Channel / 1RB



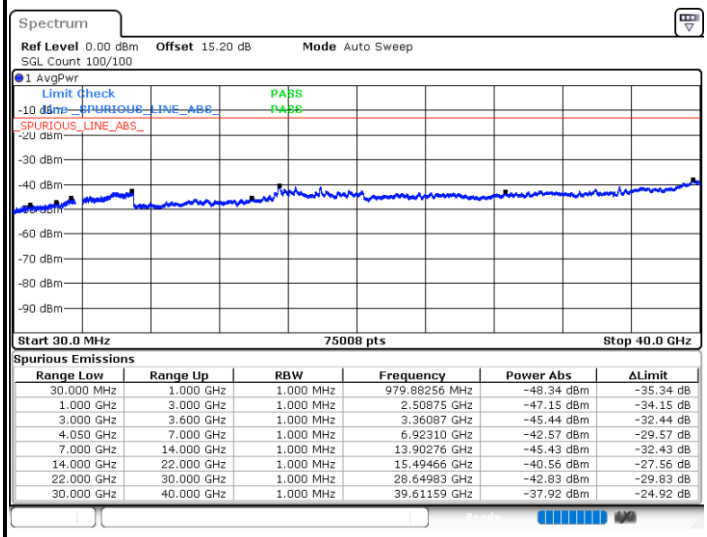
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	982.79110 MHz	-48.19 dBm	-35.19 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97051 GHz	-47.10 dBm	-34.10 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.49550 GHz	-45.76 dBm	-32.76 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.89487 GHz	-42.48 dBm	-29.48 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.90176 GHz	-45.50 dBm	-32.50 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.46066 GHz	-40.47 dBm	-27.47 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.63284 GHz	-42.77 dBm	-29.77 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.60284 GHz	-37.86 dBm	-24.86 dB

Date: 13.FEB.2021 18:12:32

FR1 UL-MIMO n77 / 20MHz / CP-OFDM QPSK (M)

Lowest Channel / 1RB

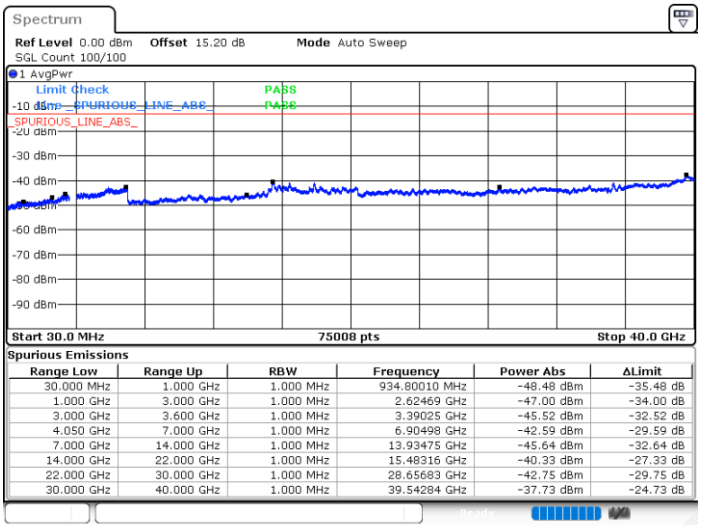


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	979.88256 MHz	-48.34 dBm	-35.34 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50875 GHz	-47.15 dBm	-34.15 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.36087 GHz	-45.44 dBm	-32.44 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.92310 GHz	-42.57 dBm	-29.57 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.90276 GHz	-45.43 dBm	-32.43 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.49466 GHz	-40.56 dBm	-27.56 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.64983 GHz	-42.83 dBm	-29.83 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.61159 GHz	-37.92 dBm	-24.92 dB

Date: 13.FEB.2021 04:51:58

Middle Channel / 1RB

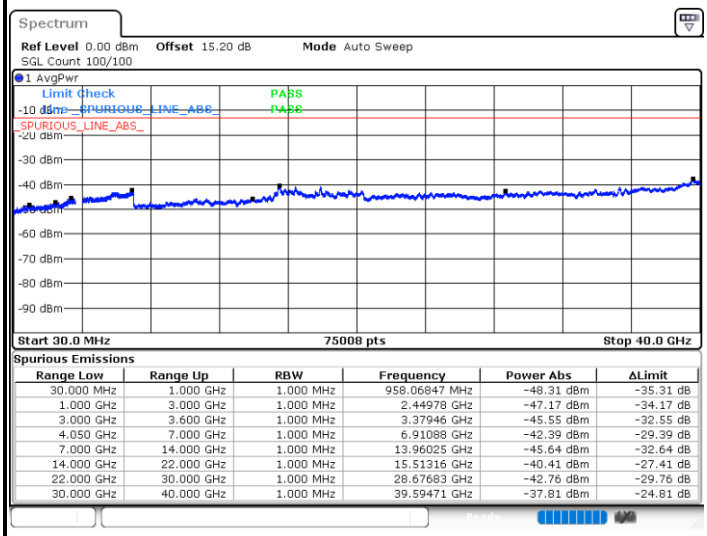


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	934.80010 MHz	-48.48 dBm	-35.48 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.62469 GHz	-47.00 dBm	-34.00 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.39025 GHz	-45.52 dBm	-32.52 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.90498 GHz	-42.59 dBm	-29.59 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.93475 GHz	-45.64 dBm	-32.64 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.48316 GHz	-40.33 dBm	-27.33 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65683 GHz	-42.75 dBm	-29.75 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.54284 GHz	-37.73 dBm	-24.73 dB

Date: 13.FEB.2021 05:05:12

Highest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	958.06847 MHz	-48.31 dBm	-35.31 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.44978 GHz	-47.17 dBm	-34.17 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.37946 GHz	-45.55 dBm	-32.55 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91088 GHz	-42.39 dBm	-29.39 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.96025 GHz	-45.64 dBm	-32.64 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.51316 GHz	-40.41 dBm	-27.41 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.67683 GHz	-42.76 dBm	-29.76 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.59471 GHz	-37.81 dBm	-24.81 dB

Date: 13.FEB.2021 05:07:16

Frequency Stability

Test Conditions		NR UL-MIMO n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0015	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.14 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

5G NR n77 UL_MIMO HPUE -SCS 30K

Peak-to-Average Ratio

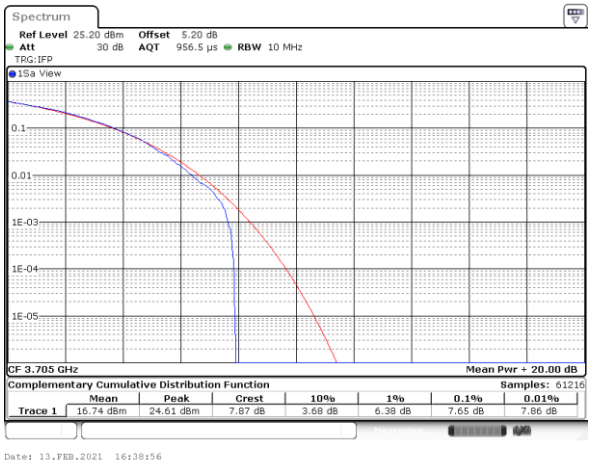
Mode	FR1 UL-MIMO n77 / 10MHz / CP-OFDM (M2)				
Mod.	QPSK	QPSK			Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	7.65	8.35			PASS
Middle CH	7.45	8.38			
Highest CH	7.13	8.32			

Mode	FR1 UL-MIMO n77 / 10MHz / CP-OFDM (M)				
Mod.	QPSK	QPSK			Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	8.29	8.58			PASS
Middle CH	7.39	8.61			
Highest CH	7.86	8.17			

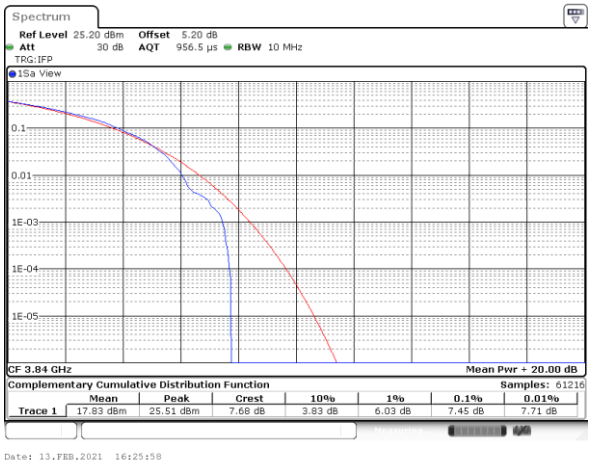
FR1 UL-MIMO n77 / 10MHz / CP-OFDM

QPSK(M2)

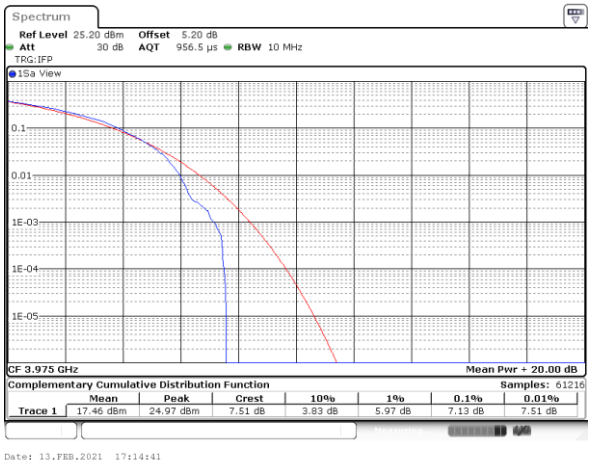
Lowest Channel / 1RB



Middle Channel / 1 RB

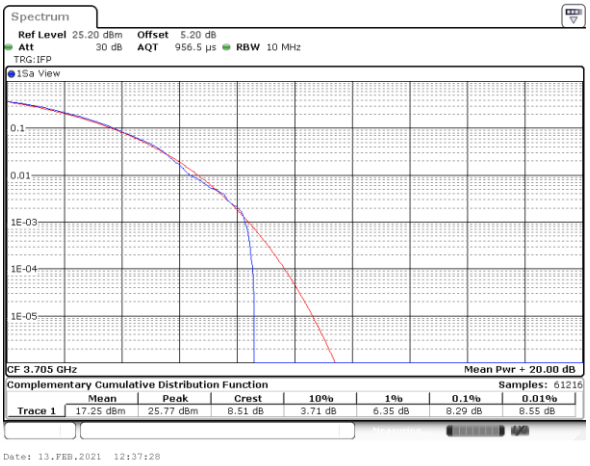


Highest Channel / 1 RB

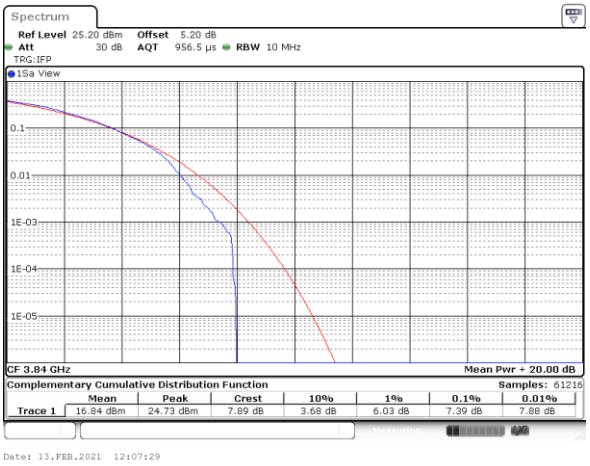


QPSK(M)

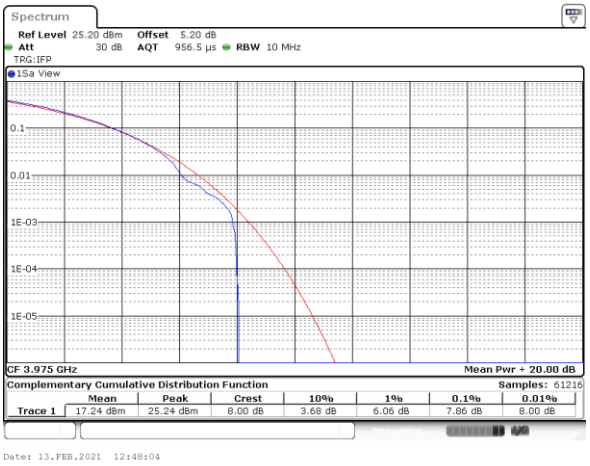
Lowest Channel / 1RB



Middle Channel / 1 RB



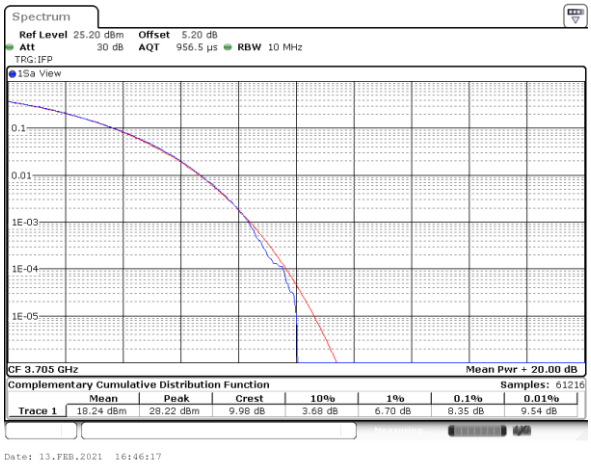
Highest Channel / 1 RB



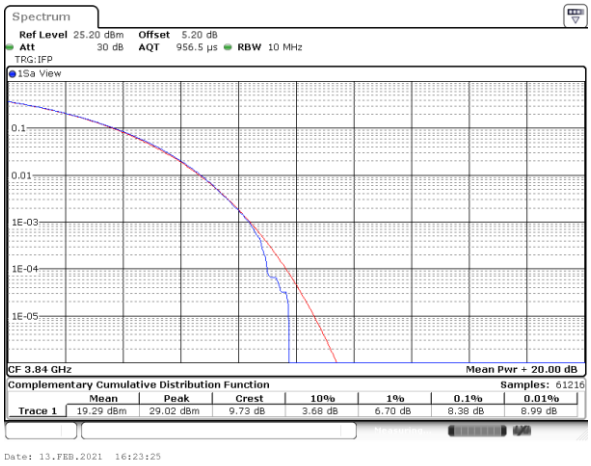
FR1 UL-MIMO n77 / 10MHz / CP-OFDM

QPSK(M2)

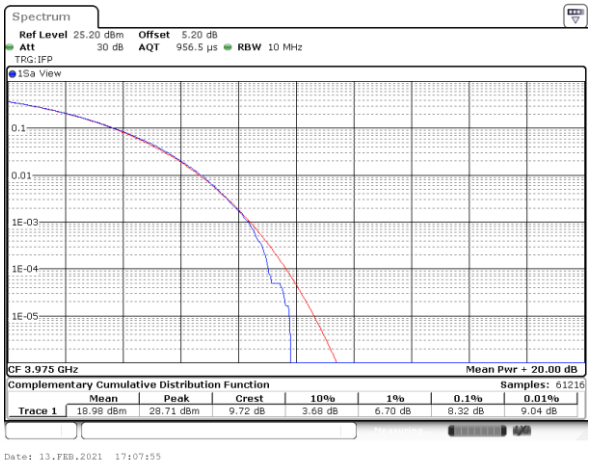
Lowest Channel / Full RB



Middle Channel / Full RB

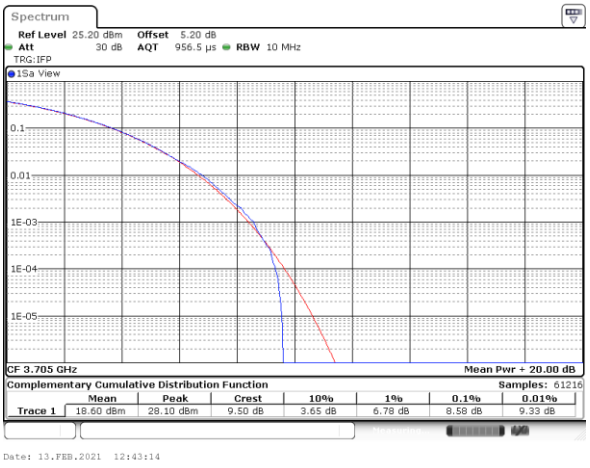


Highest Channel / Full RB

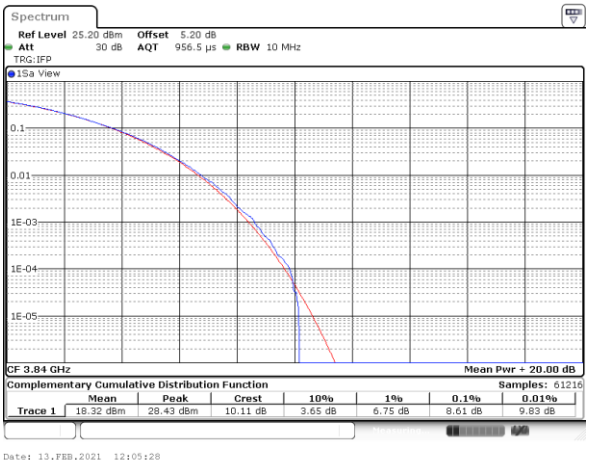


QPSK(M)

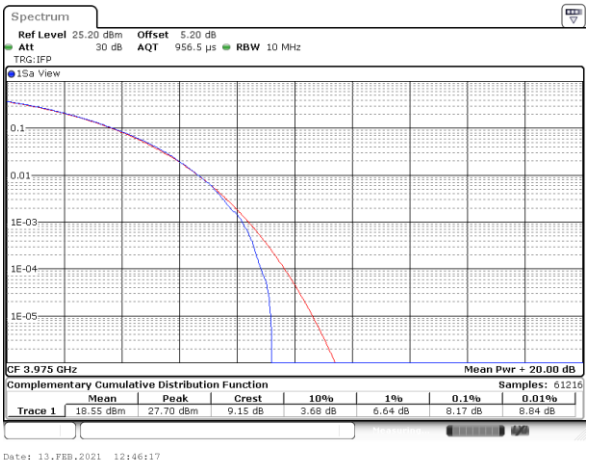
Lowest Channel / Full RB



Middle Channel / Full RB



Highest Channel / Full RB



26dB Bandwidth

Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	M2				M			
BW	10MHz	10MHz	10MHz	10MHz	10MHz	10MHz	10MHz	10MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	9.23	9.11	9.15	9.15	9.33	9.07	9.11	9.29

Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	M2				M			
BW	15MHz	15MHz	15MHz	15MHz	15MHz	15MHz	15MHz	15MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	14.33	14.30	14.27	14.39	14.42	14.75	14.57	14.54

Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	M2				M			
BW	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	18.98	18.94	19.26	19.02	19.30	18.98	19.10	19.02

Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	M2				M			
BW	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	40.28	40.28	40.12	40.2	40.2	40.12	40.36	40.36

Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	M2				M			
BW	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	49.65	49.75	50.15	49.75	49.65	49.75	49.65	49.75

Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	M2				M			
BW	60MHz	60MHz	60MHz	60MHz	60MHz	60MHz	60MHz	60MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	60.42	60.42	60.3	60.54	60.42	60.54	60.3	60.42

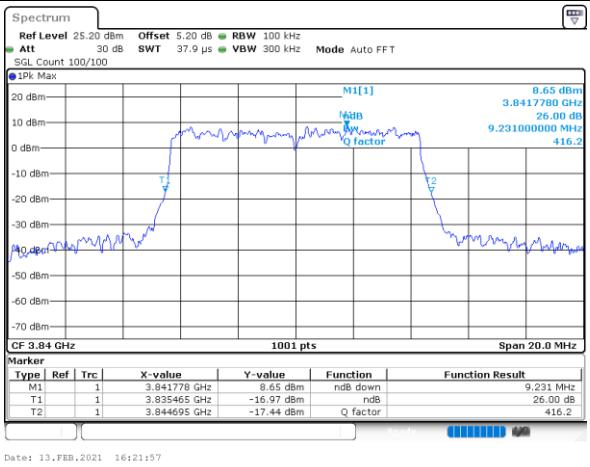
Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	M2				M			
BW	80MHz	80MHz	80MHz	80MHz	80MHz	80MHz	80MHz	80MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	79.92	79.92	80.08	79.92	80.08	80.08	79.92	79.76

Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	M2				M			
BW	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	100.3	100.5	100.1	100.3	100.3	100.3	100.1	100.3

FR1 UL-MIMO n77 / 10MHz / CP-OFDM (M2)

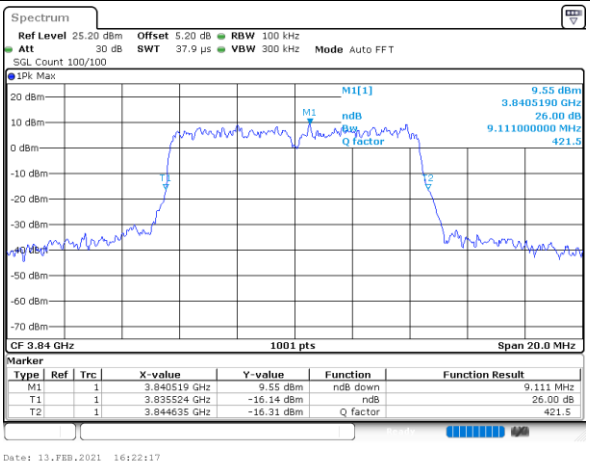
QPSK

Middle Channel



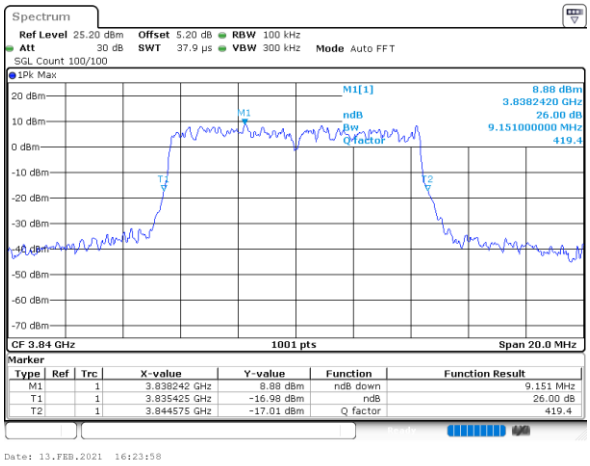
16QAM

Middle Channel



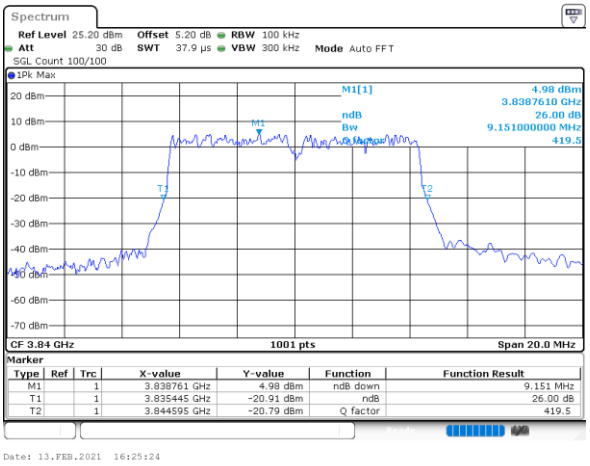
64QAM

Middle Channel



256QAM

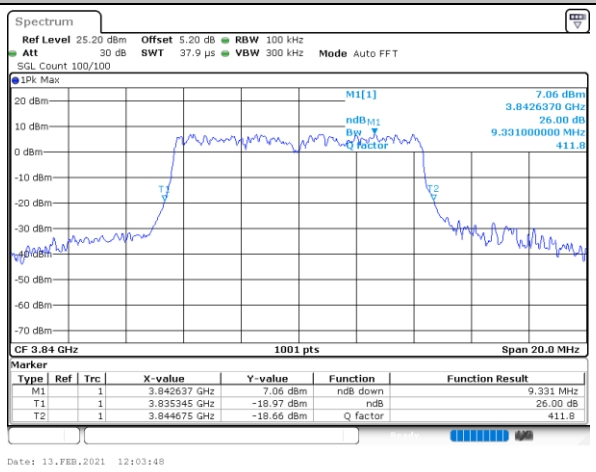
Middle Channel



FR1 UL-MIMO n77 / 10MHz / CP-OFDM (M)

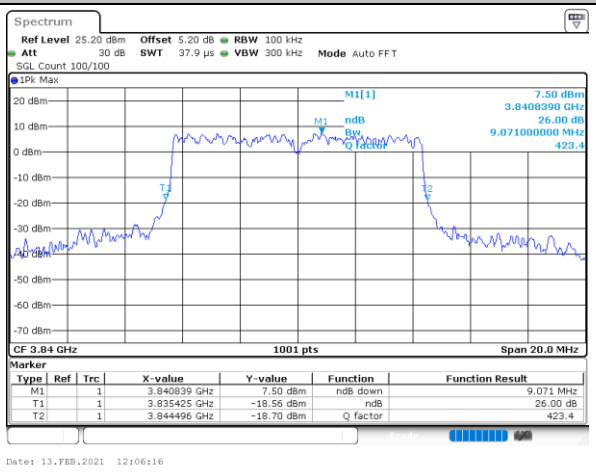
QPSK

Middle Channel



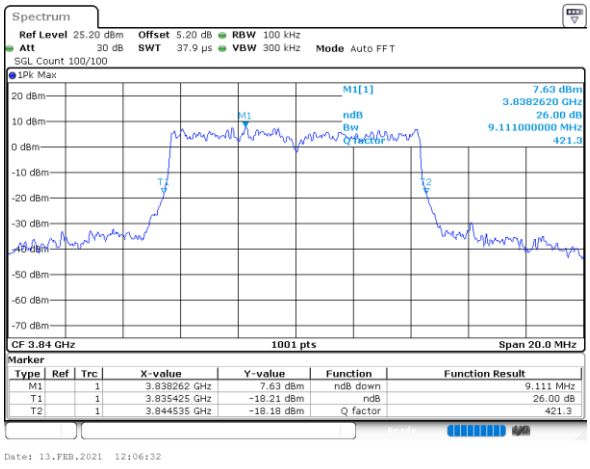
16QAM

Middle Channel



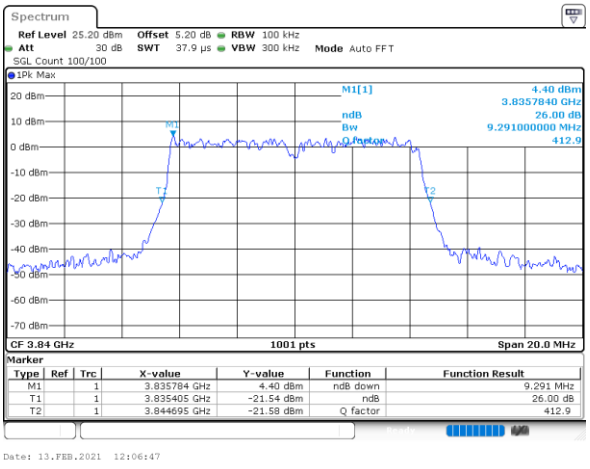
64QAM

Middle Channel



256QAM

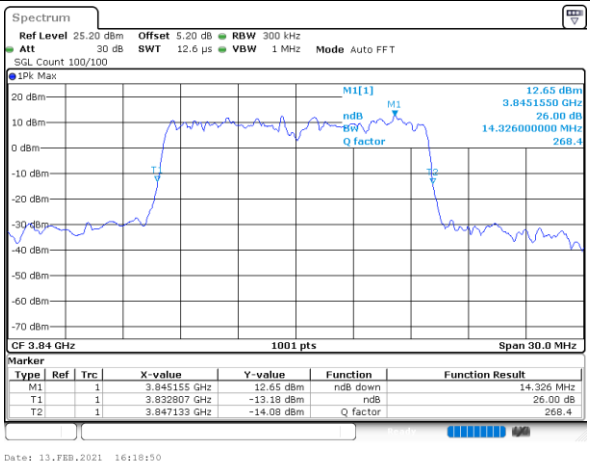
Middle Channel



FR1 UL-MIMO n77 / 15MHz / CP-OFDM (M2)

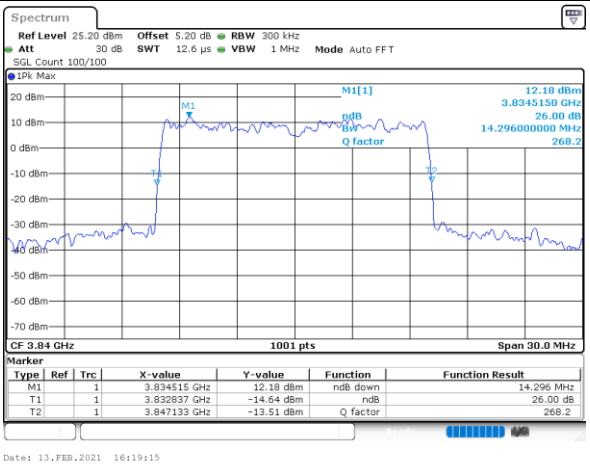
QPSK

Middle Channel



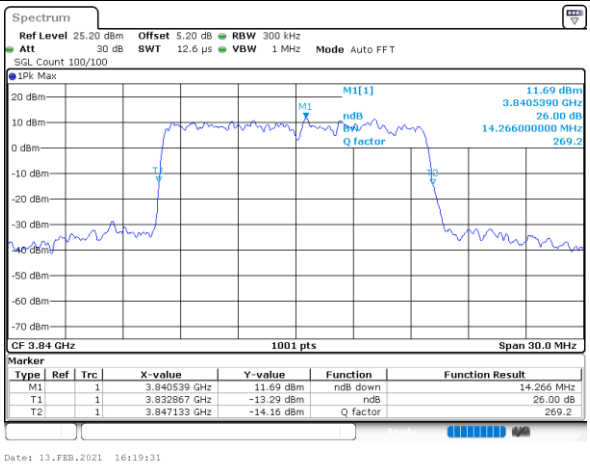
16QAM

Middle Channel



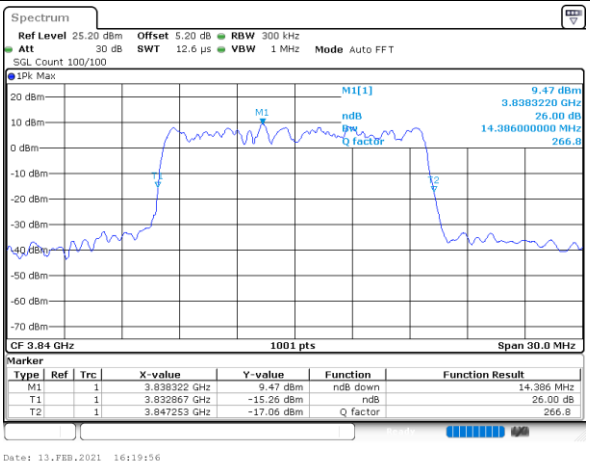
64QAM

Middle Channel



256QAM

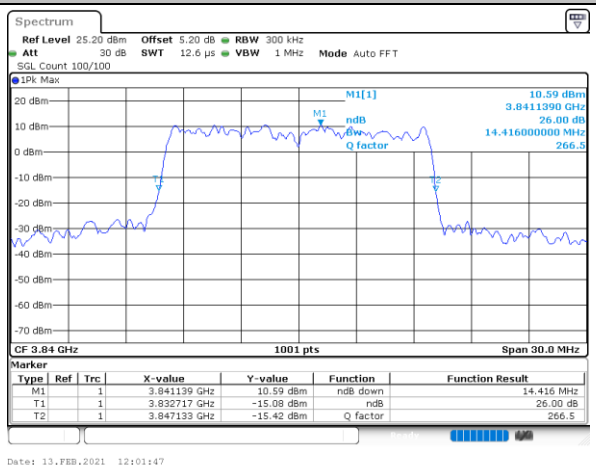
Middle Channel



FR1 UL-MIMO n77 / 15MHz / CP-OFDM (M)

QPSK

Middle Channel



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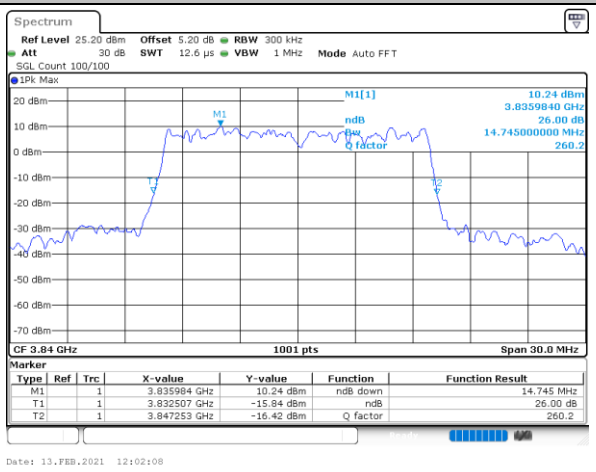

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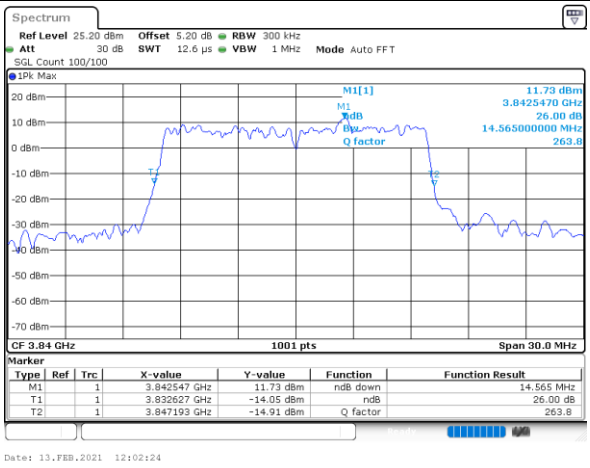

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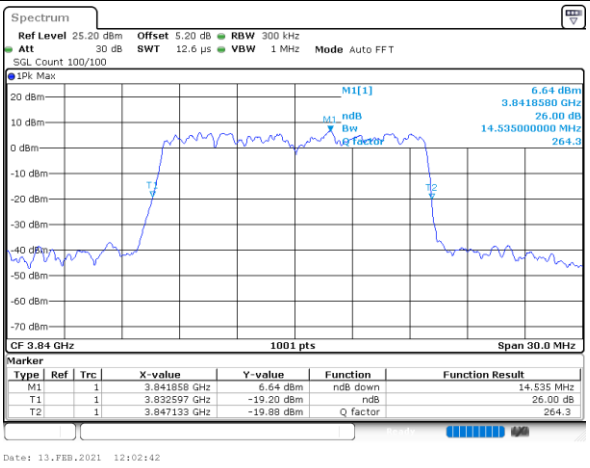

FR1 UL-MIMO n77 / 20MHz / CP-OFDM (M2)

QPSK

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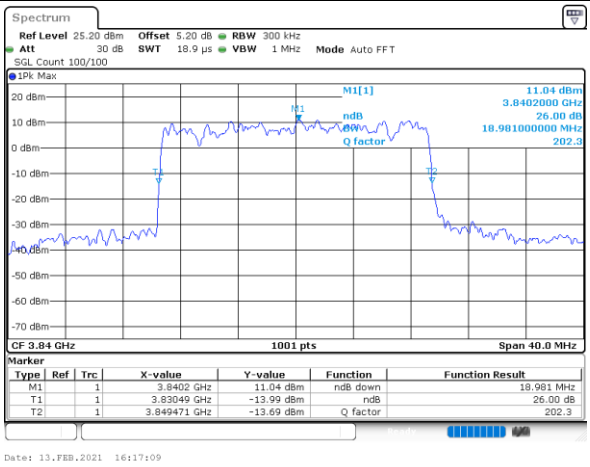

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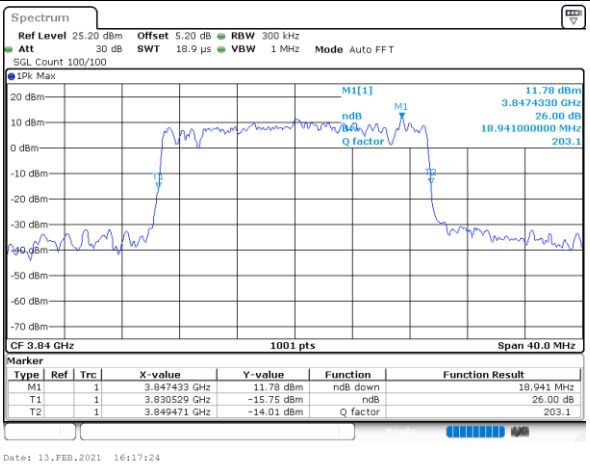

64QAM

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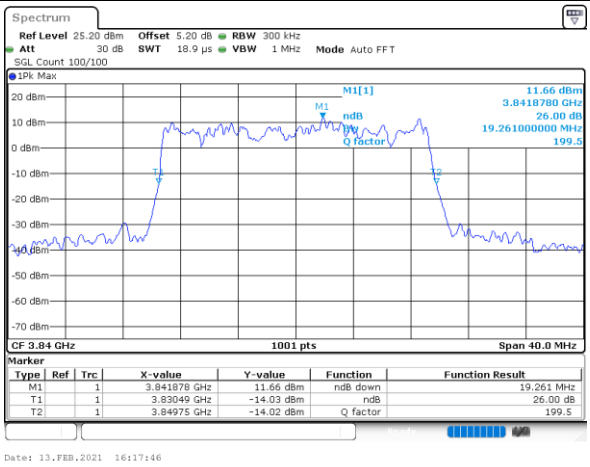

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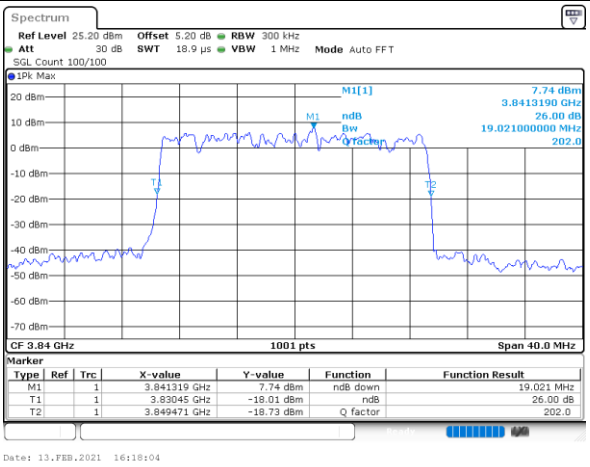
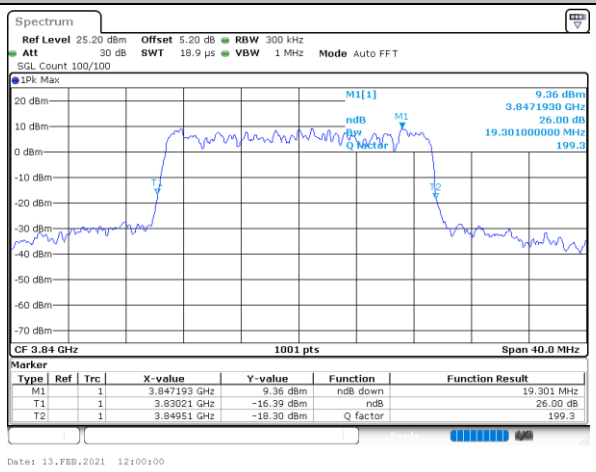


FR1 UL-MIMO n77 / 20MHz / CP-OFDM (M)

QPSK

Middle Channel



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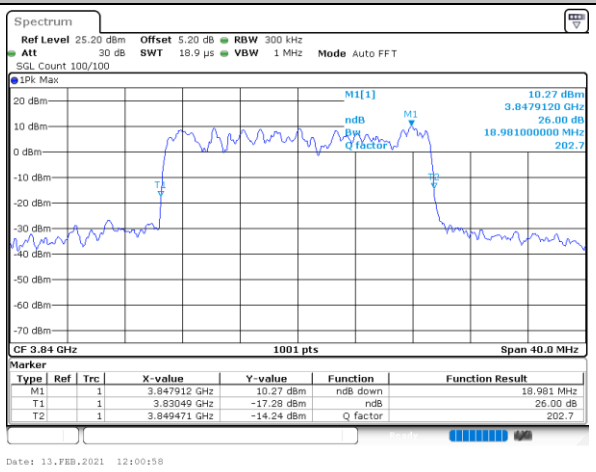

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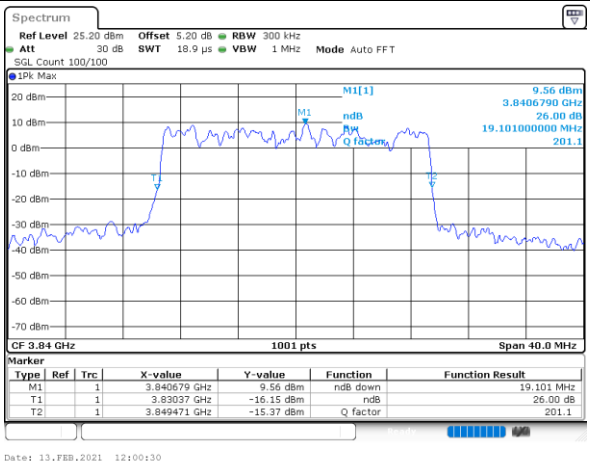

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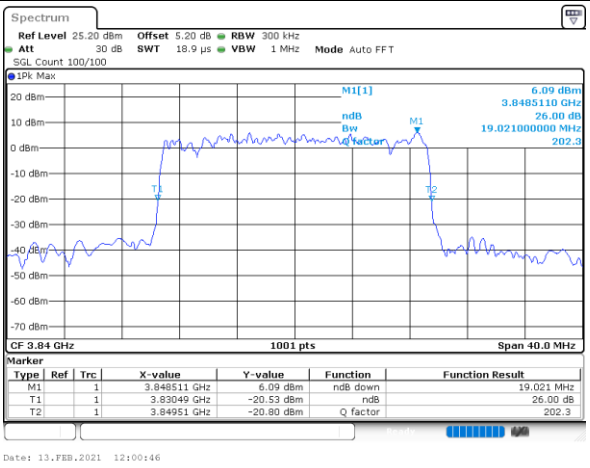
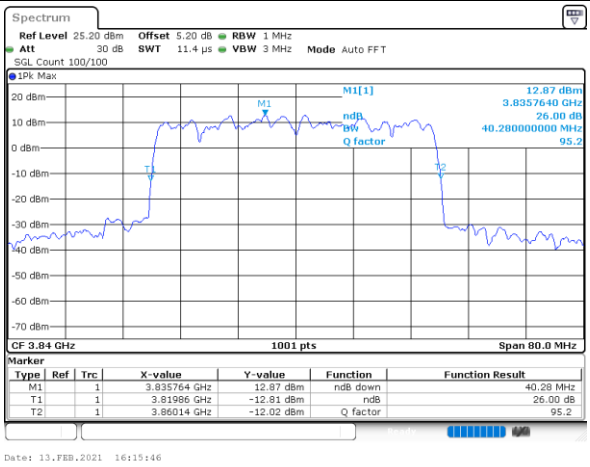


FR1 UL-MIMO n77 / 40MHz / CP-OFDM (M2)

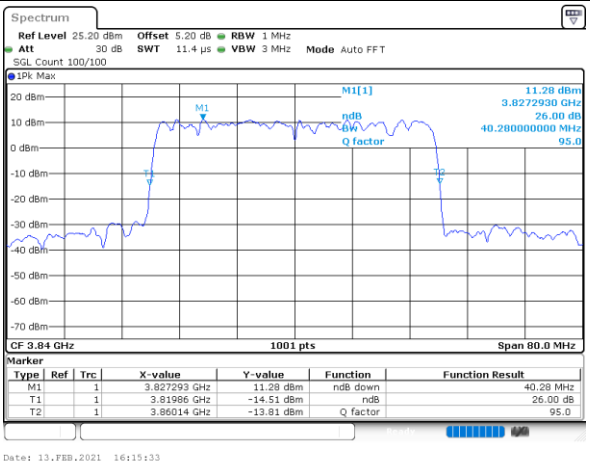
QPSK

Middle Channel



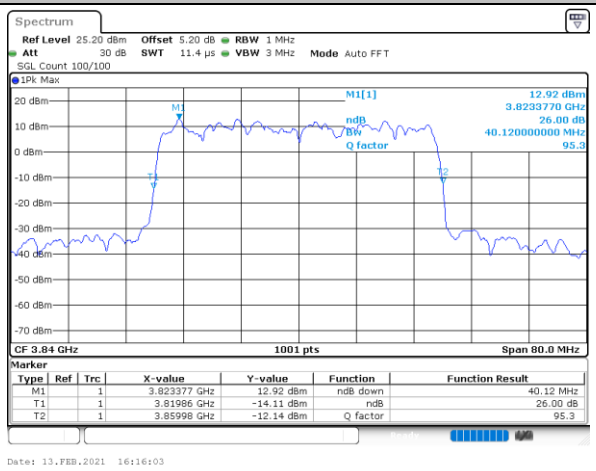
16QAM

Middle Channel



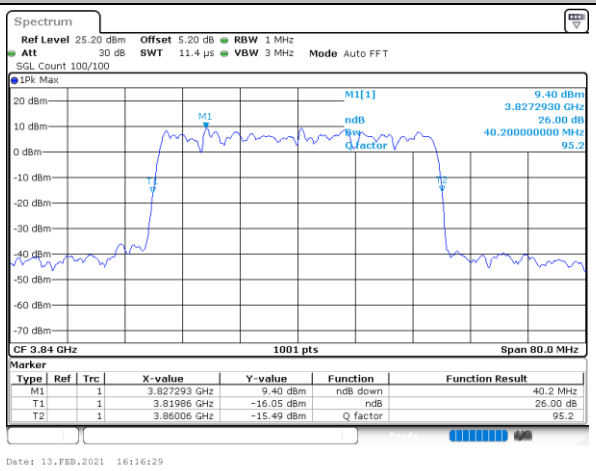
64QAM

Middle Channel



256QAM

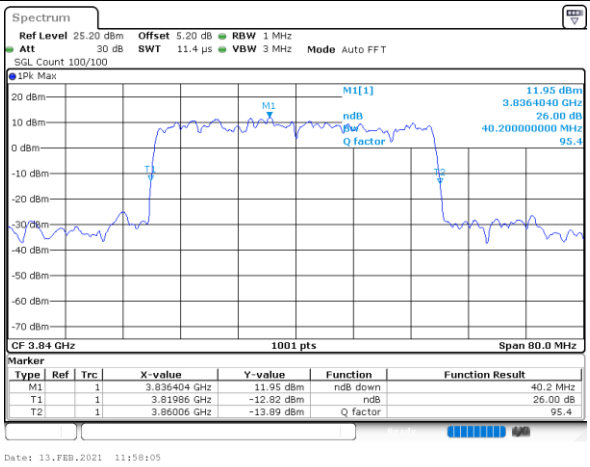
Middle Channel



FR1 UL-MIMO n77 / 40MHz / CP-OFDM (M)

QPSK

Middle Channel



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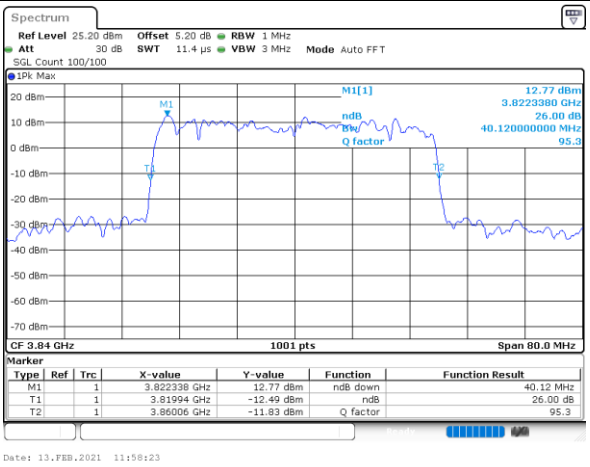
Middle Channel



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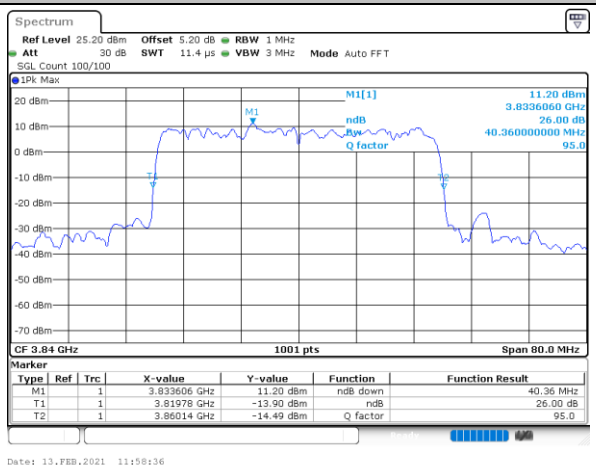
Middle Channel



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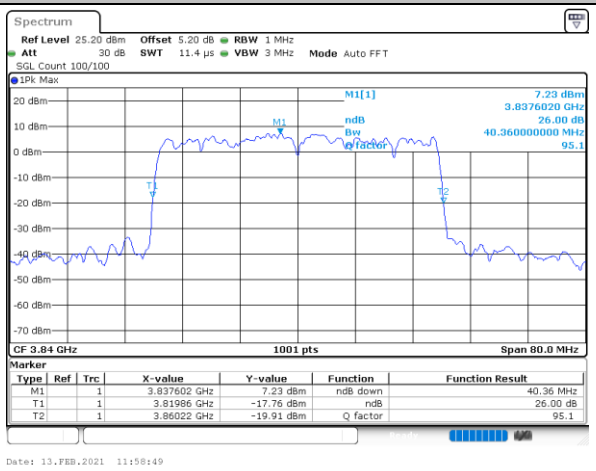
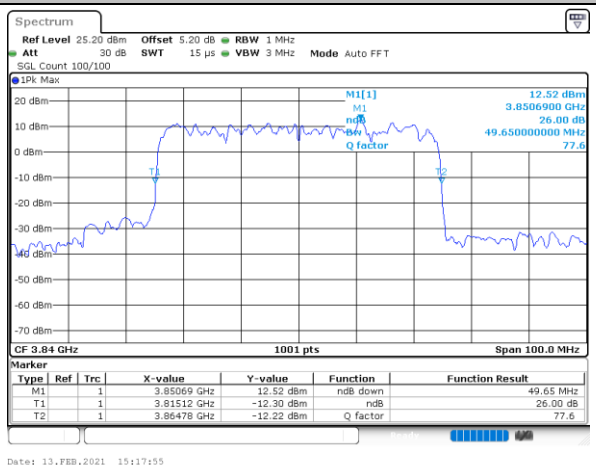
Middle Channel



FR1 UL-MIMO n77 / 50MHz / CP-OFDM (M2)

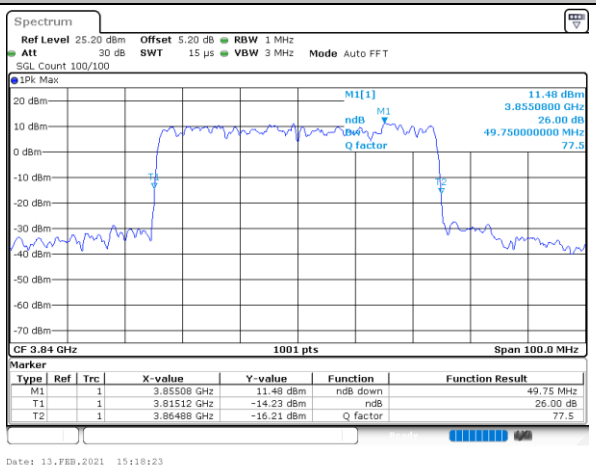
QPSK

Middle Channel



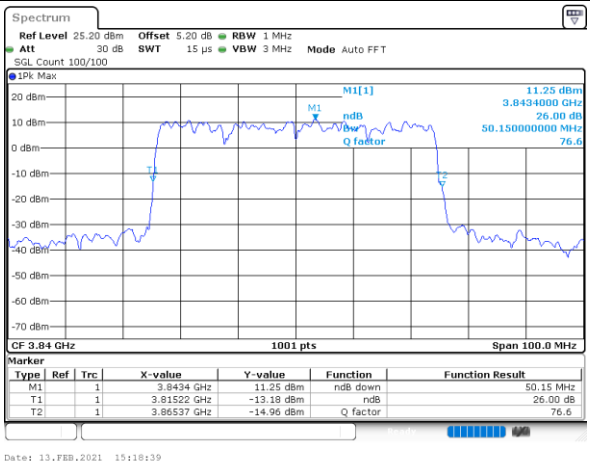
16QAM

Middle Channel



64QAM

Middle Channel



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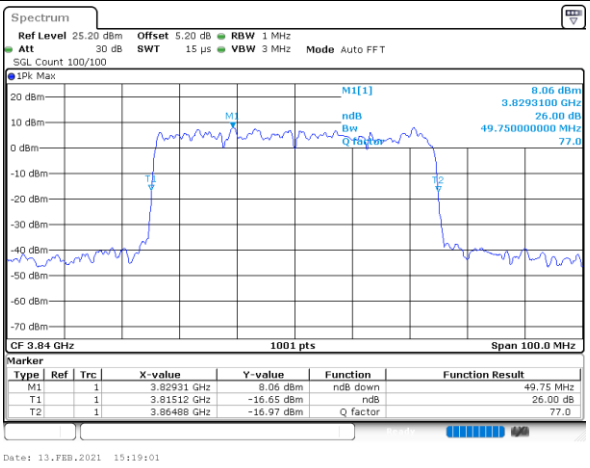
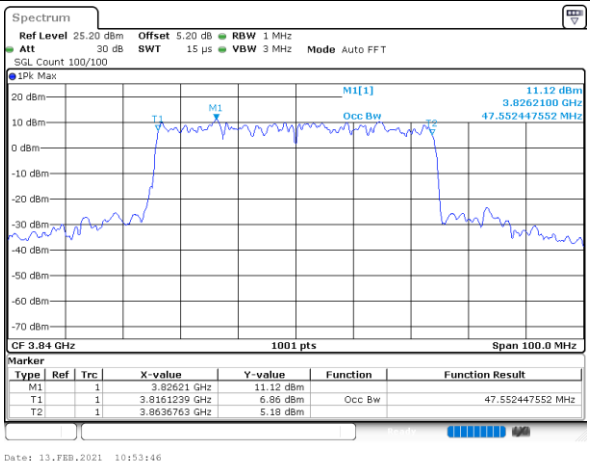
Middle Channel



FR1 UL-MIMO n77 / 50MHz / CP-OFDM (M)

QPSK

Middle Channel



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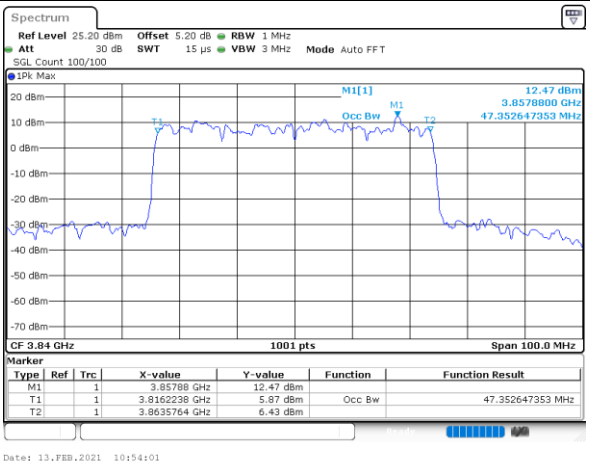

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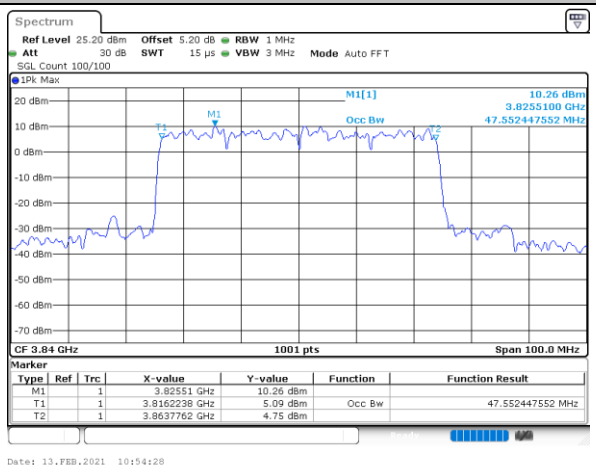

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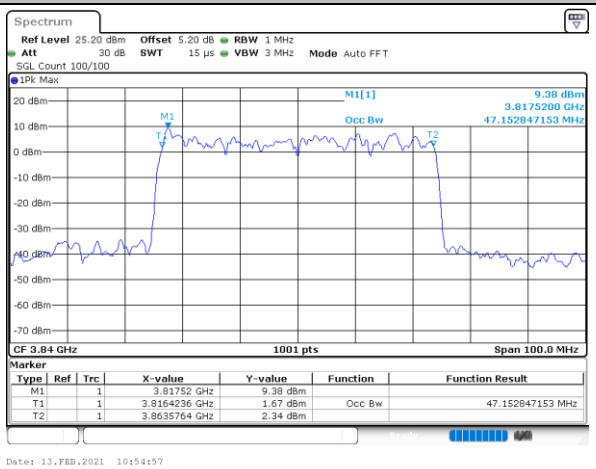
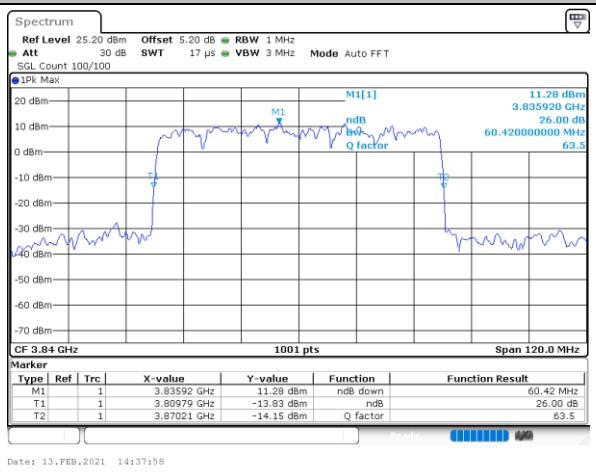
Middle Channel



FR1 UL-MIMO n77 / 60MHz / CP-OFDM (M2)

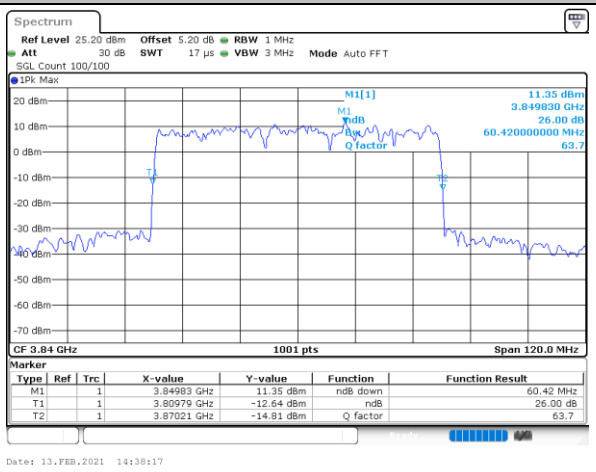
QPSK

Middle Channel



16QAM

Middle Channel



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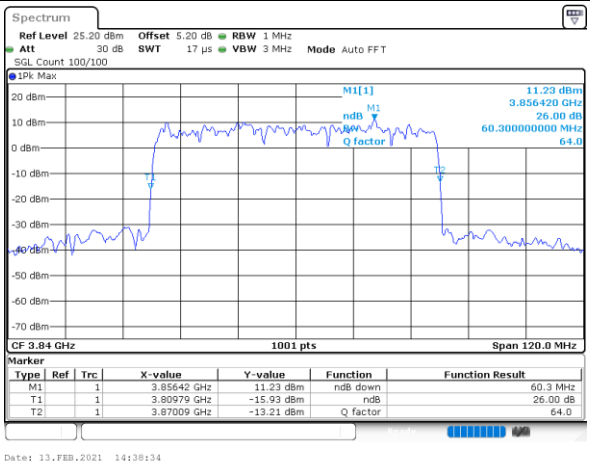
Middle Channel



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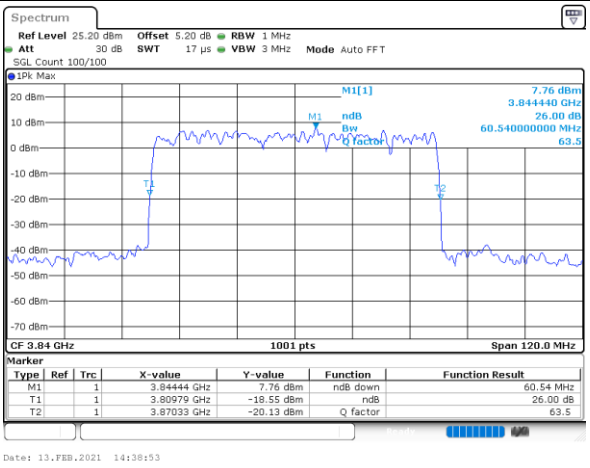
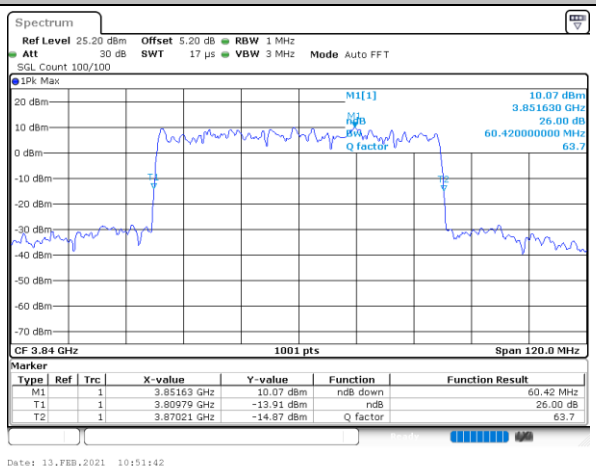


FR1 UL-MIMO n77 / 60MHz / CP-OFDM (M)

QPSK

Middle Channel



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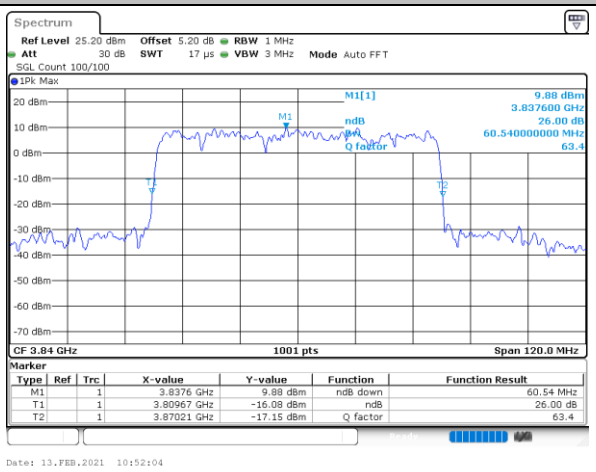

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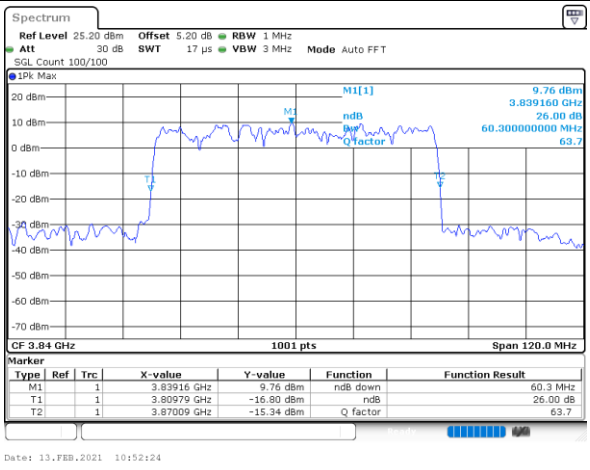

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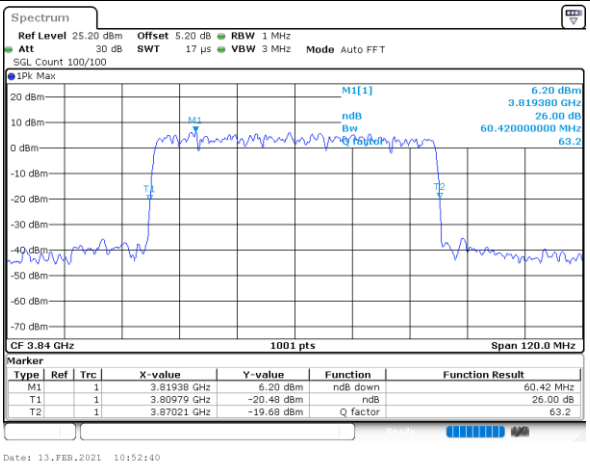
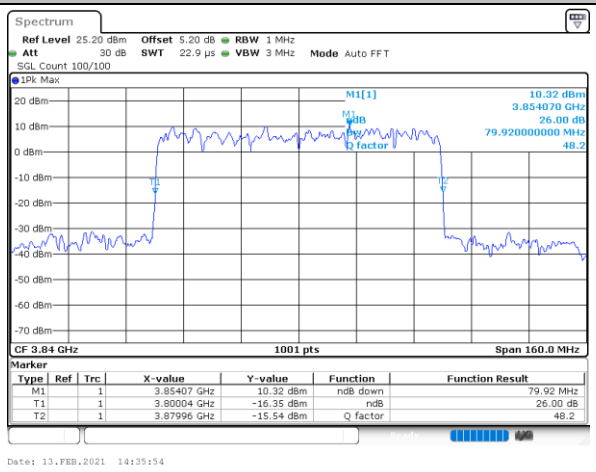


FR1 UL-MIMO n77 / 80MHz / CP-OFDM (M2)

QPSK

Middle Channel



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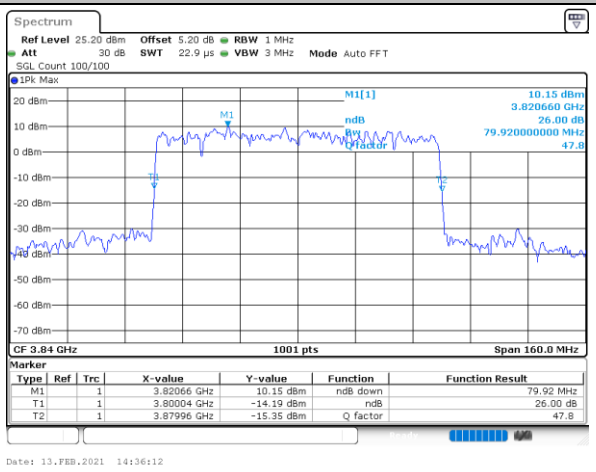
Middle Channel



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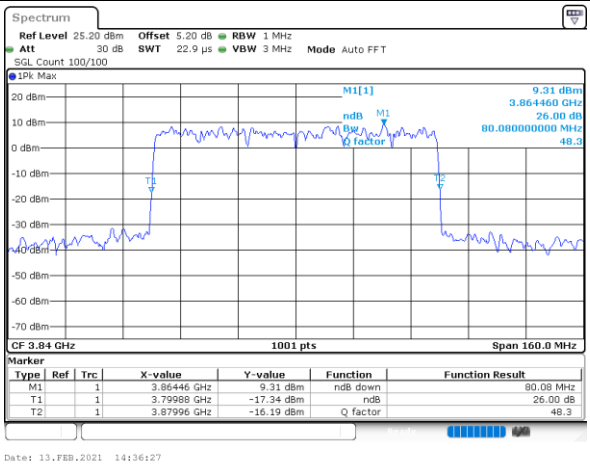

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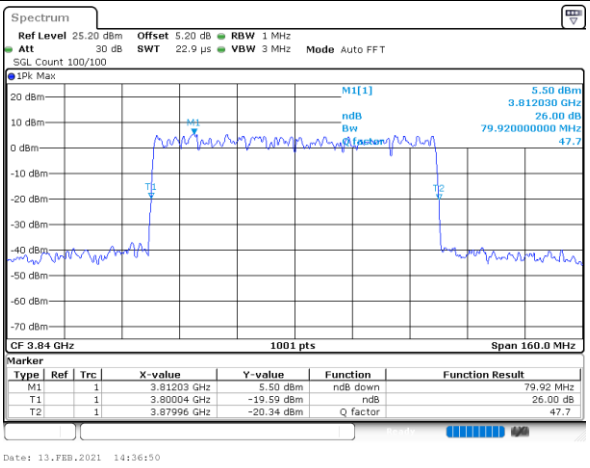
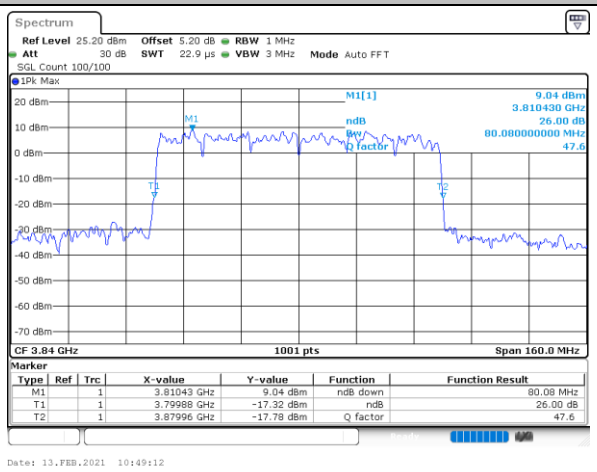


FR1 UL-MIMO n77 / 80MHz / CP-OFDM (M)

QPSK

Middle Channel



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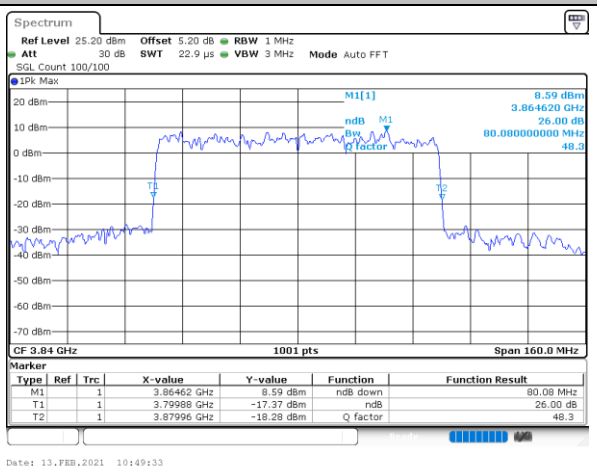
Middle Channel



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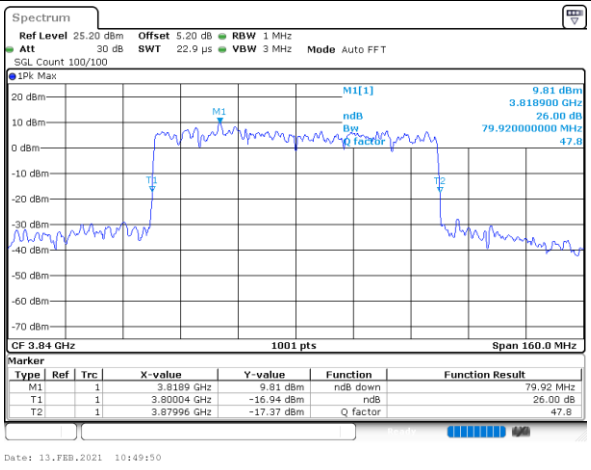
Middle Channel



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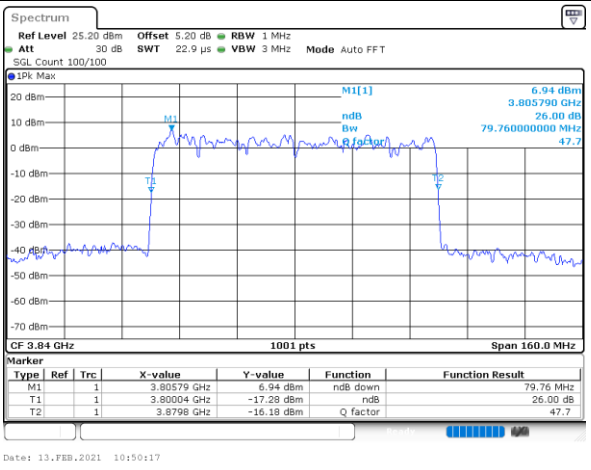
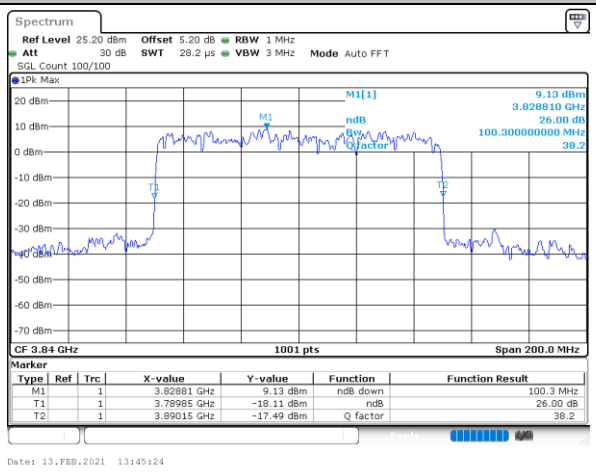


FR1 UL-MIMO n77 / 100MHz / CP-OFDM (M2)

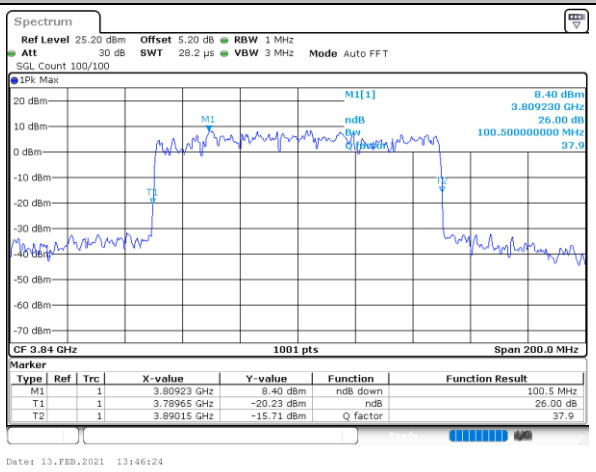
QPSK

Middle Channel



16QAM

Middle Channel



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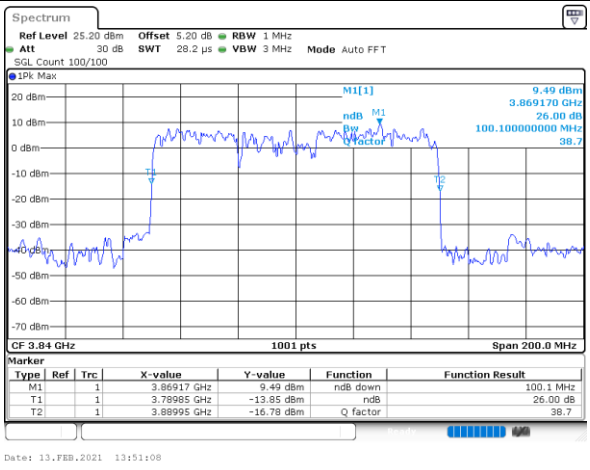
Middle Channel



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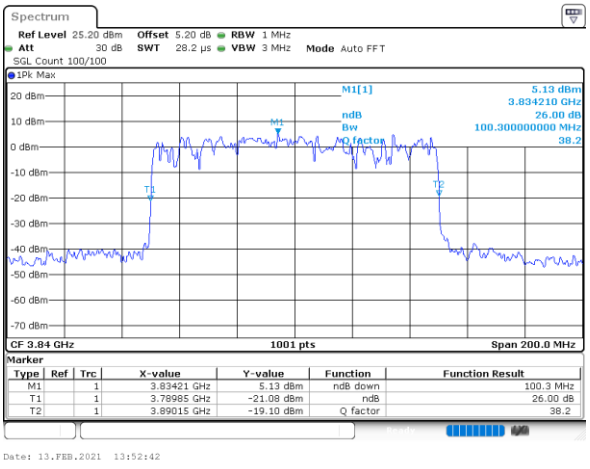
Middle Channel