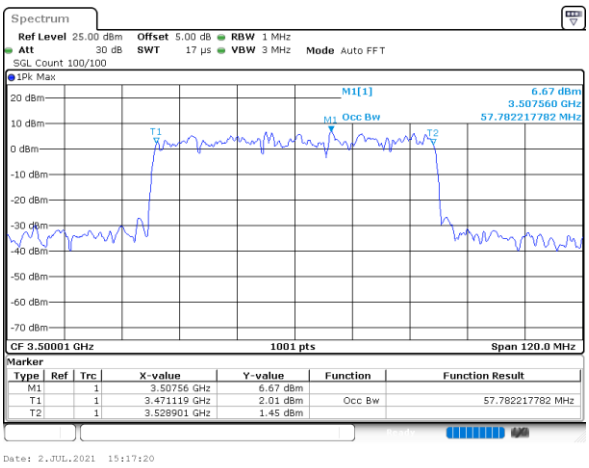
FR1 UL-MIMO n77 / 60MHz / CP-OFDM (Ant5)

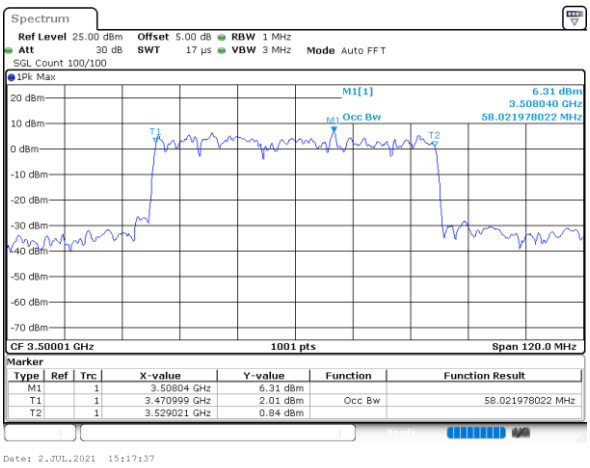
QPSK

Middle Channel



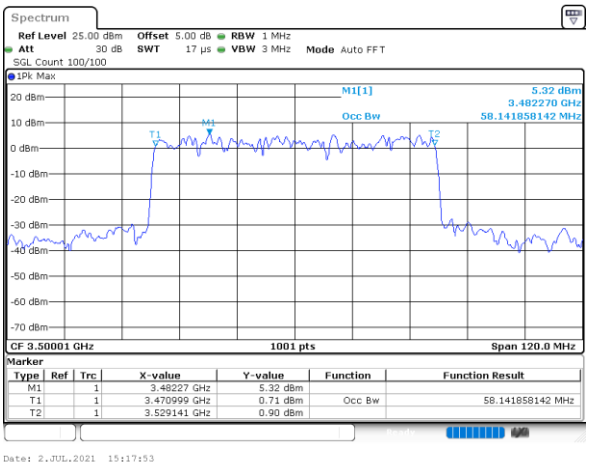
16QAM

Middle Channel



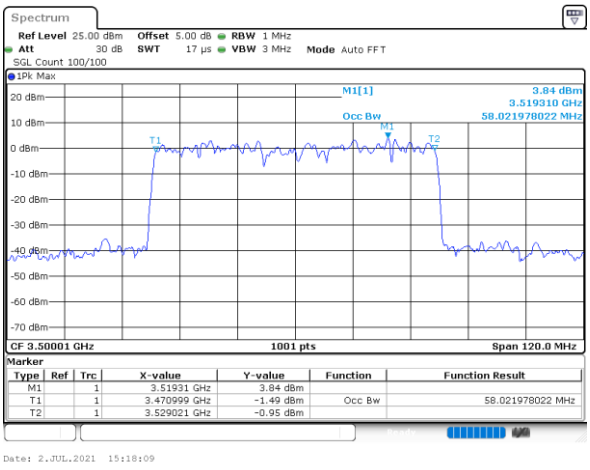
64QAM

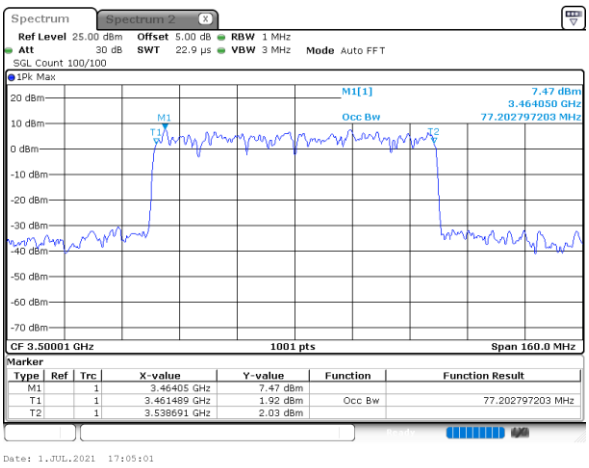
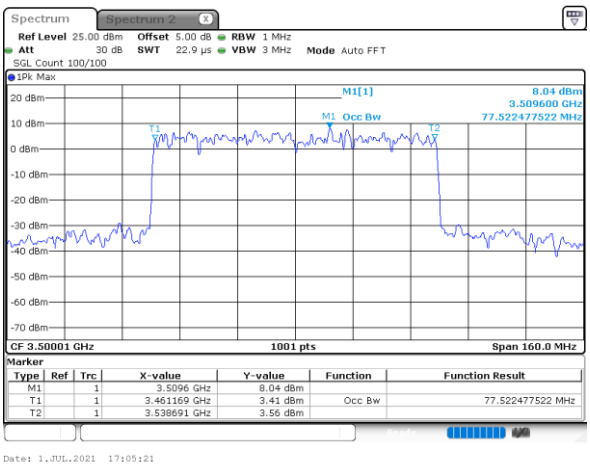
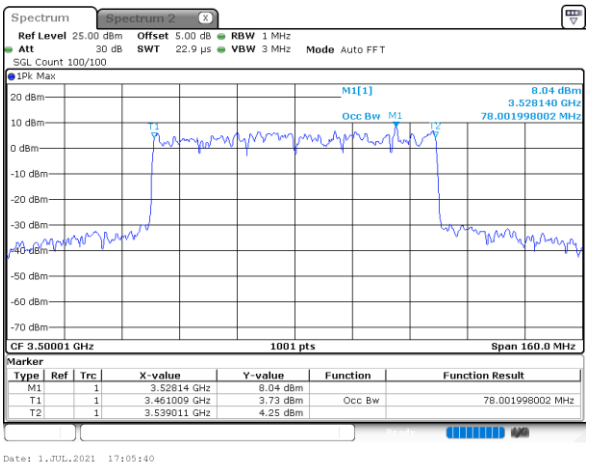
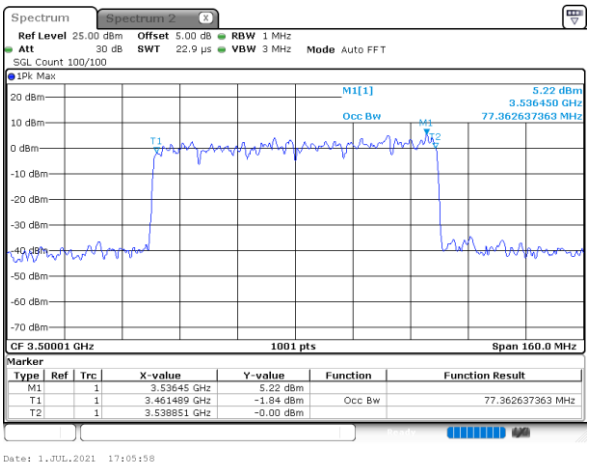
Middle Channel

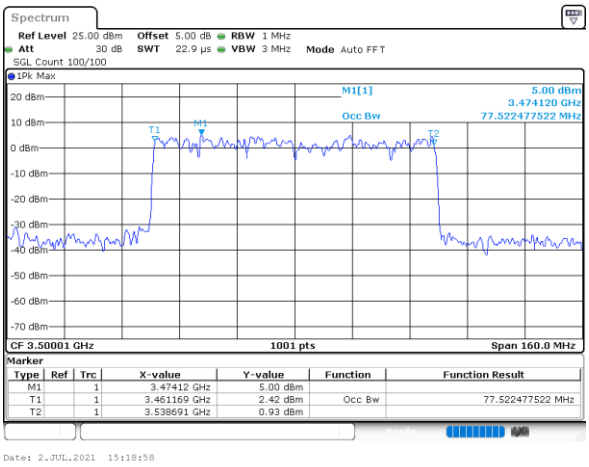
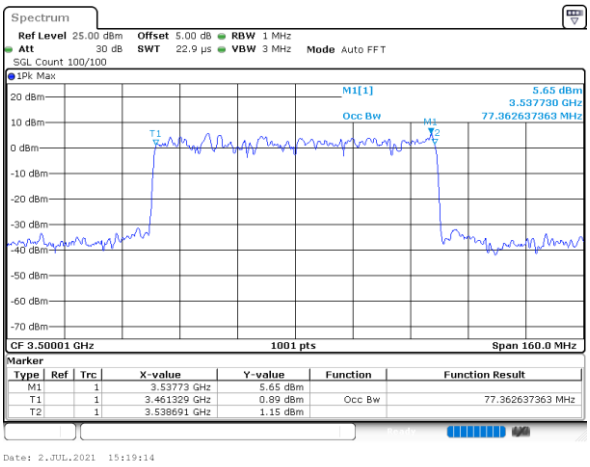
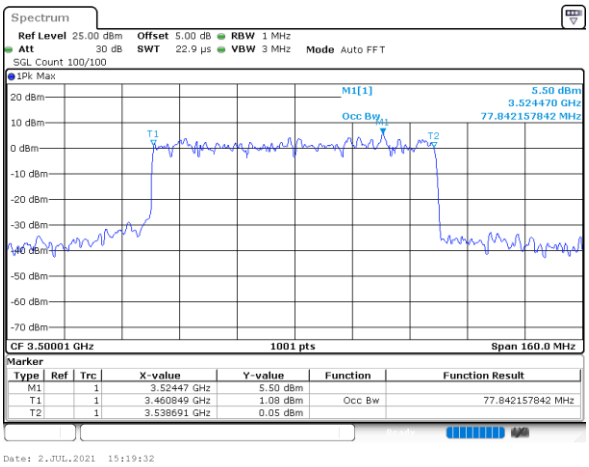
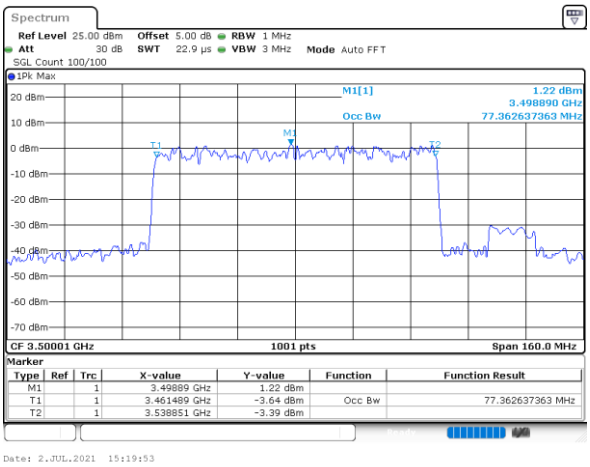


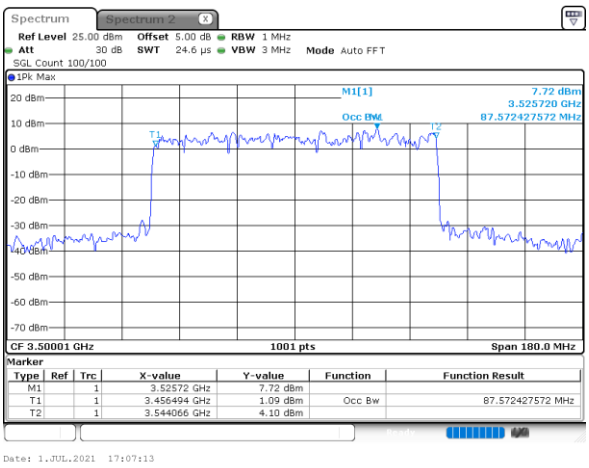
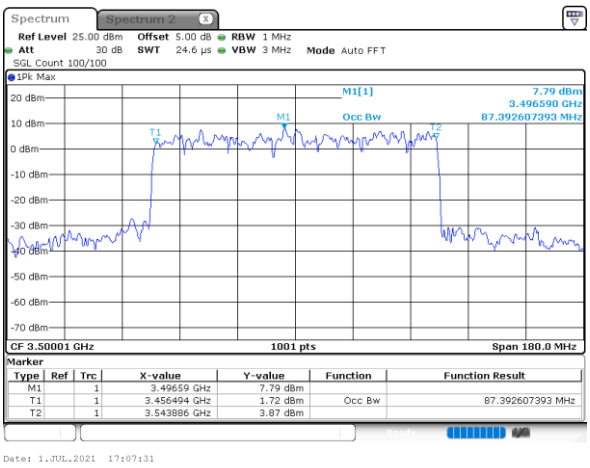
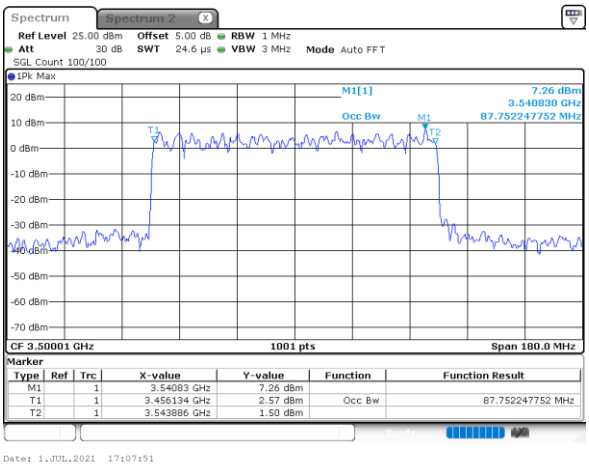
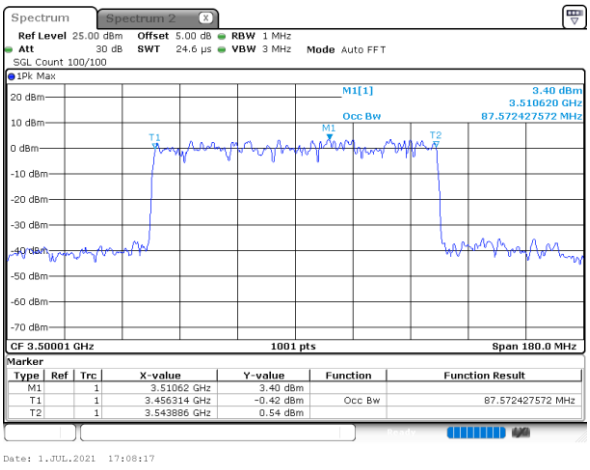
256QAM

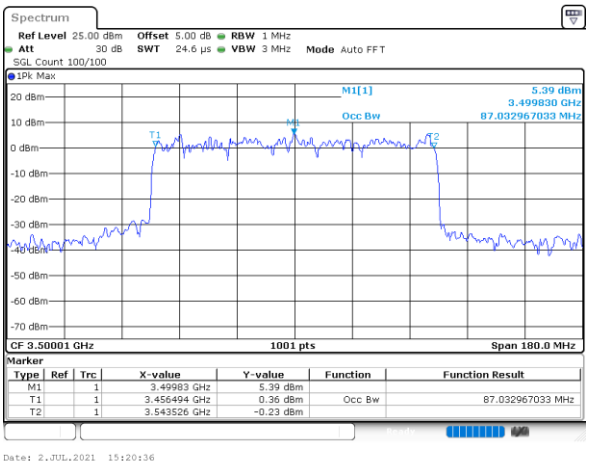
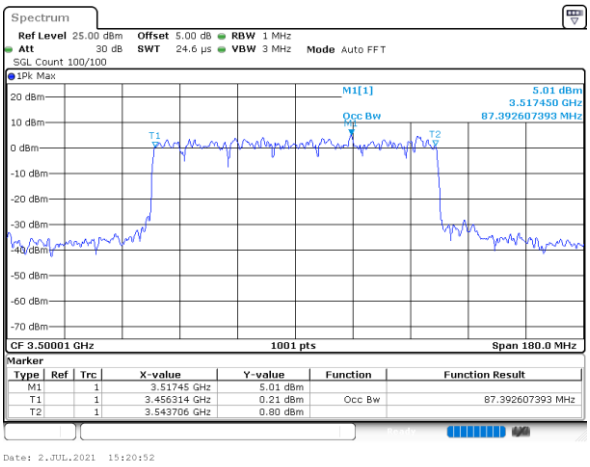
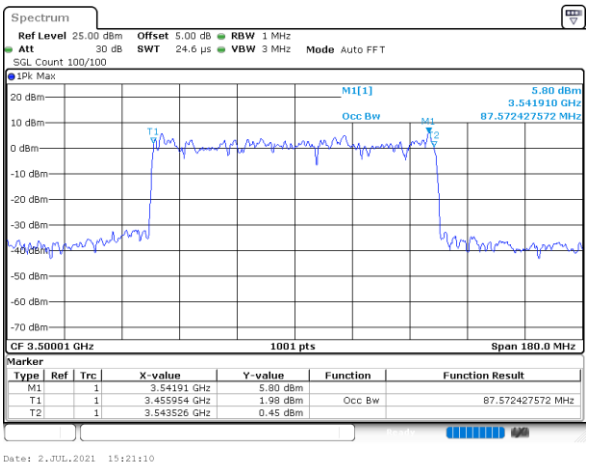
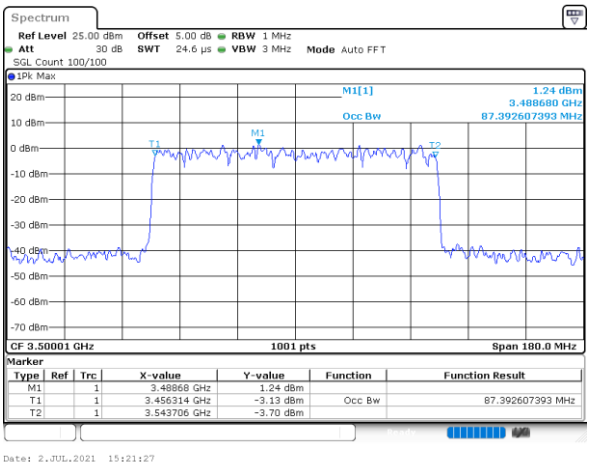
Middle Channel

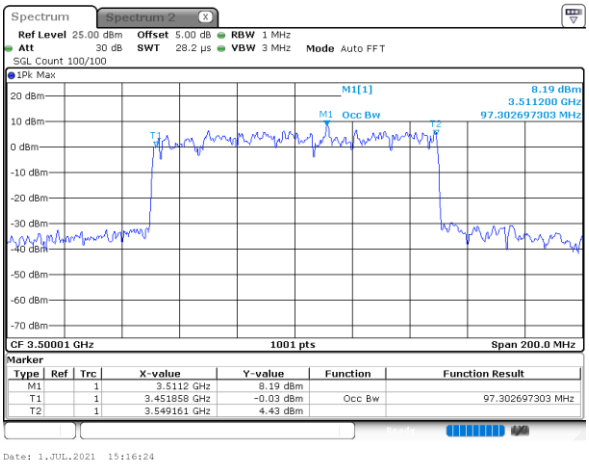
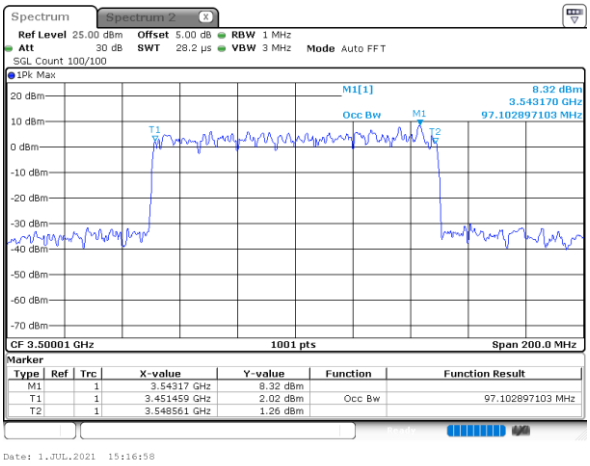
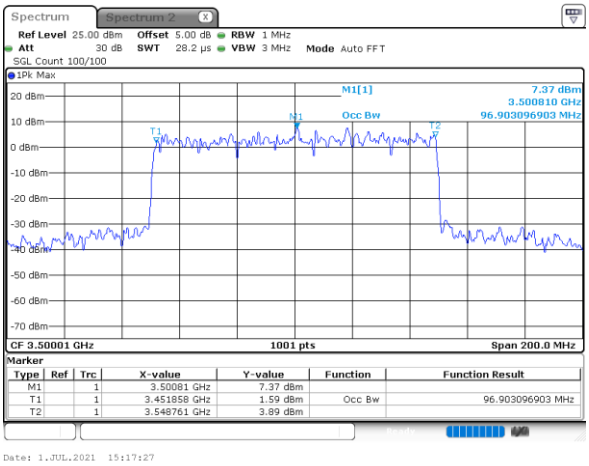
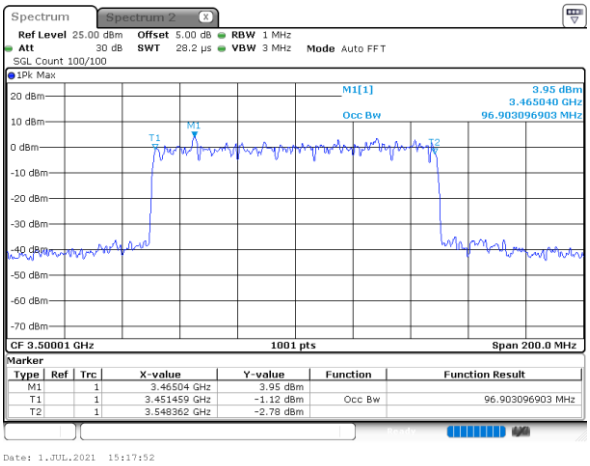


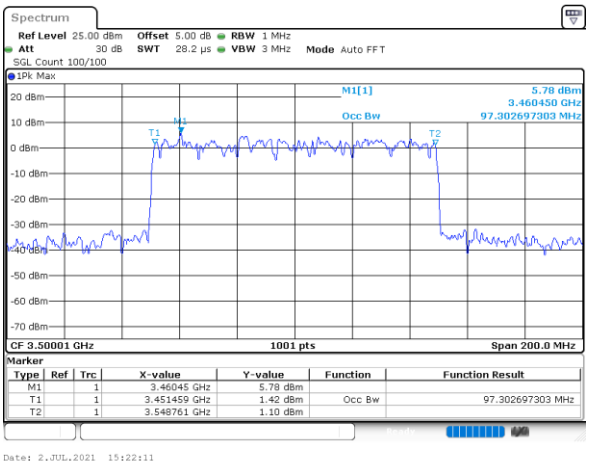
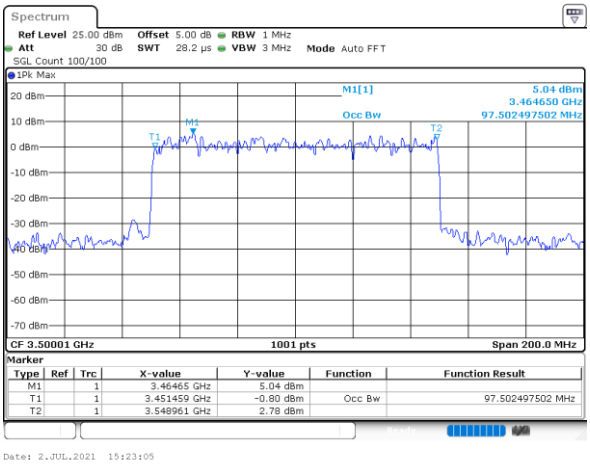
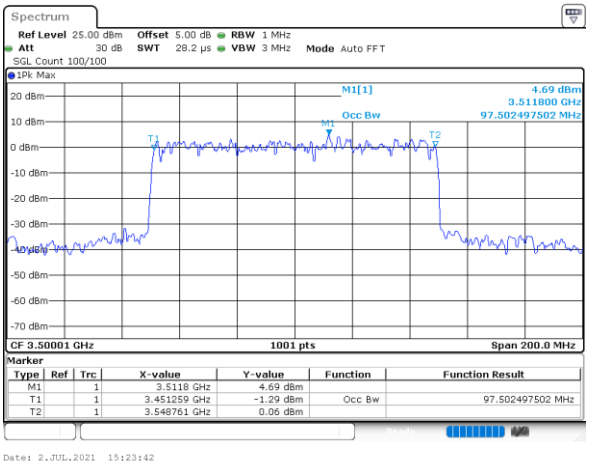
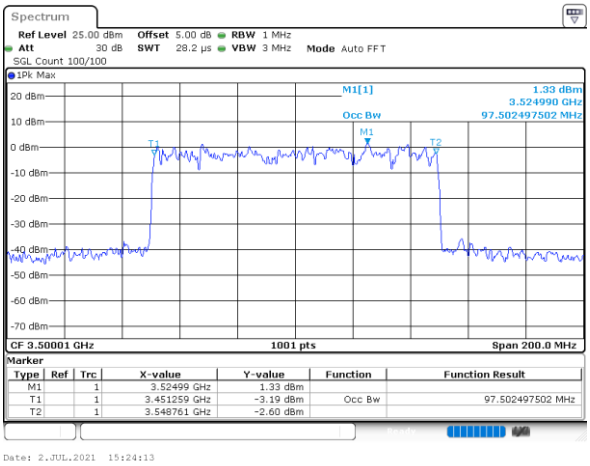
FR1 UL-MIMO n77 / 80MHz / CP-OFDM (ANT4)	
QPSK	**16QAM**
Middle Channel	**Middle Channel**
	
64QAM	**256QAM**
Middle Channel	**Middle Channel**
	

FR1 UL-MIMO n77 / 80MHz / CP-OFDM (Ant5)	
QPSK	**16QAM**
Middle Channel	**Middle Channel**
	
64QAM	**256QAM**
Middle Channel	**Middle Channel**
	

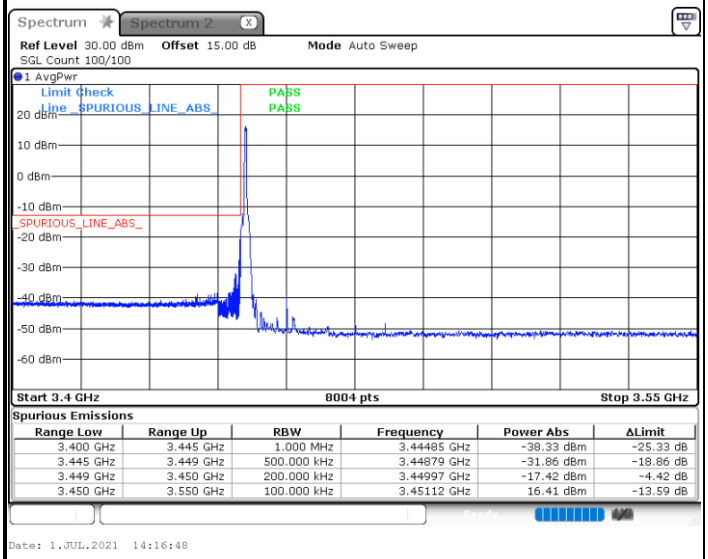
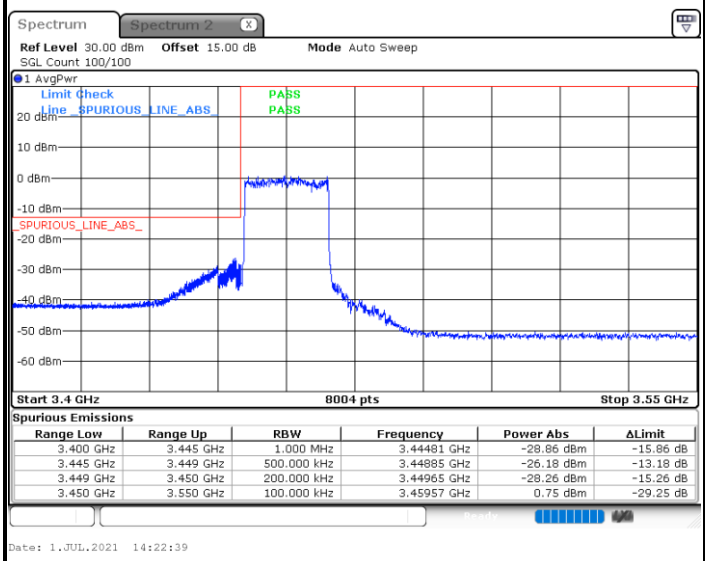
FR1 UL-MIMO n77 / 90MHz / CP-OFDM (Ant4)	
QPSK	**16QAM**
Middle Channel	**Middle Channel**
	
64QAM	**256QAM**
Middle Channel	**Middle Channel**
	

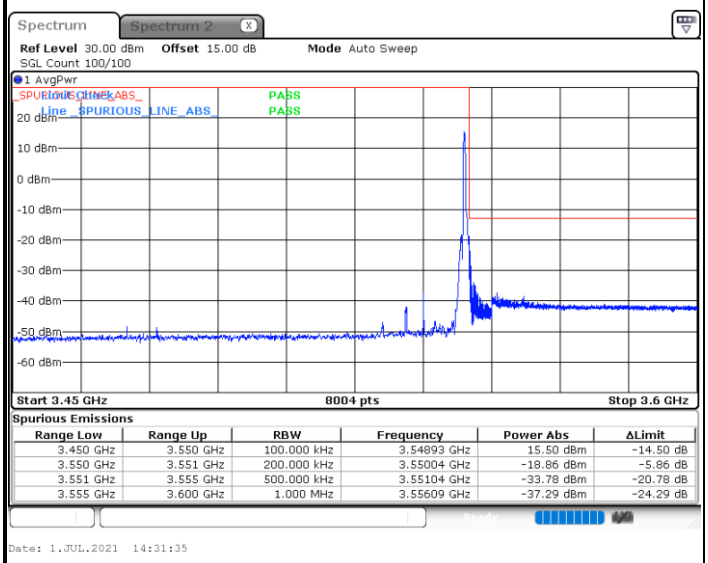
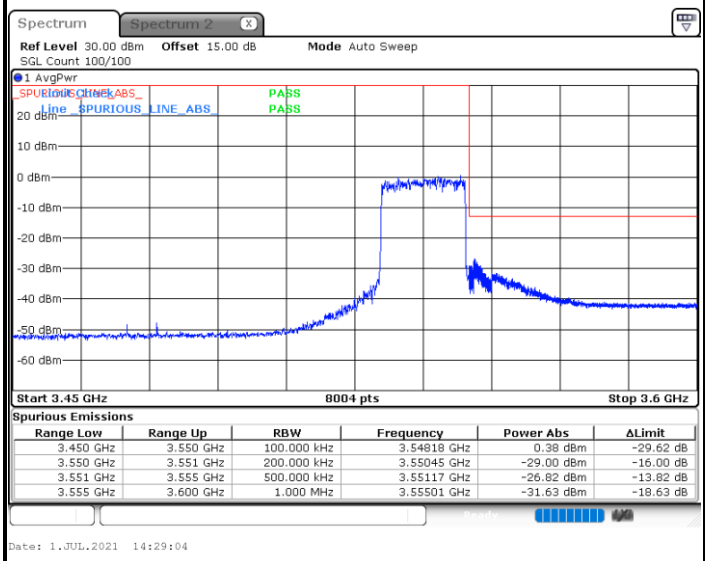
FR1 UL-MIMO n77 / 90MHz / CP-OFDM (Ant5)	
QPSK	**16QAM**
Middle Channel	**Middle Channel**
	
64QAM	**256QAM**
Middle Channel	**Middle Channel**
	

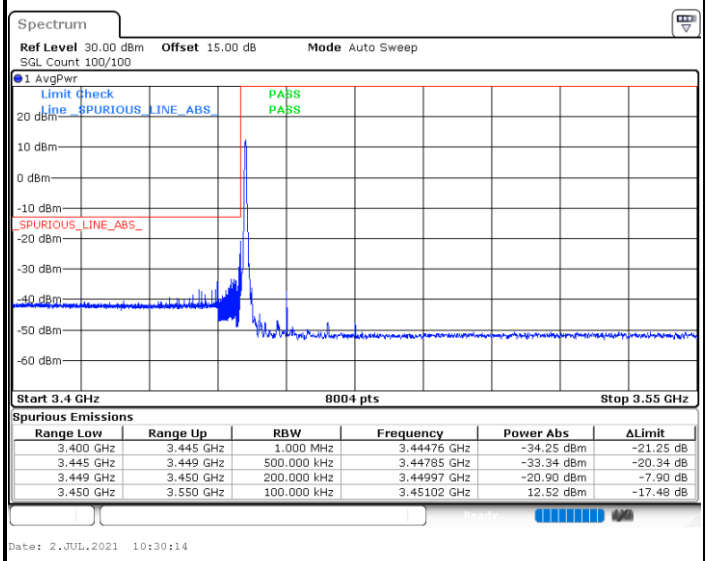
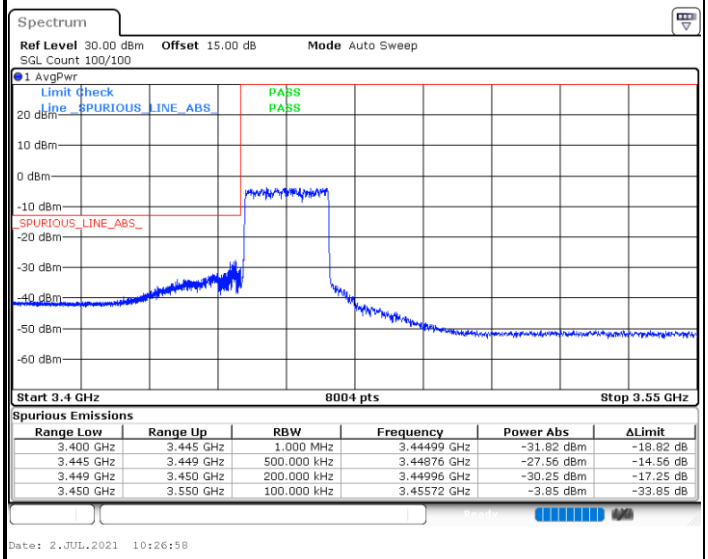
FR1 UL-MIMO n77 / 100MHz / CP-OFDM (ANT4)	
QPSK	**16QAM**
Middle Channel	**Middle Channel**
	
64QAM	**256QAM**
Middle Channel	**Middle Channel**
	

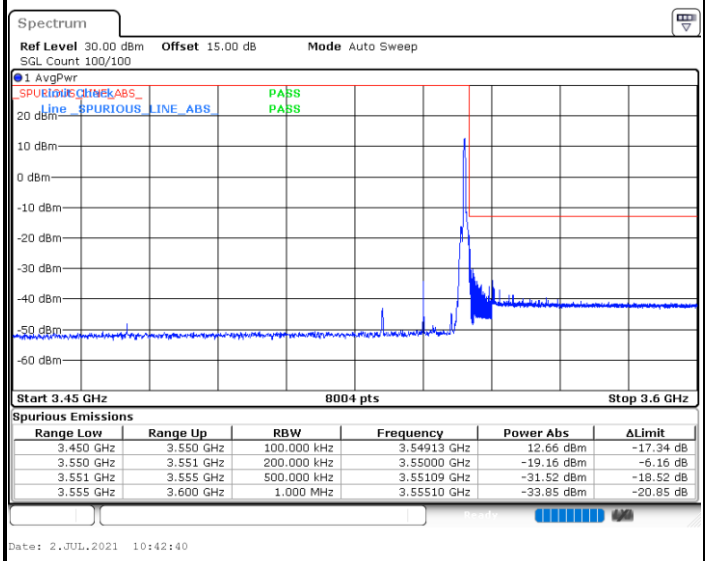
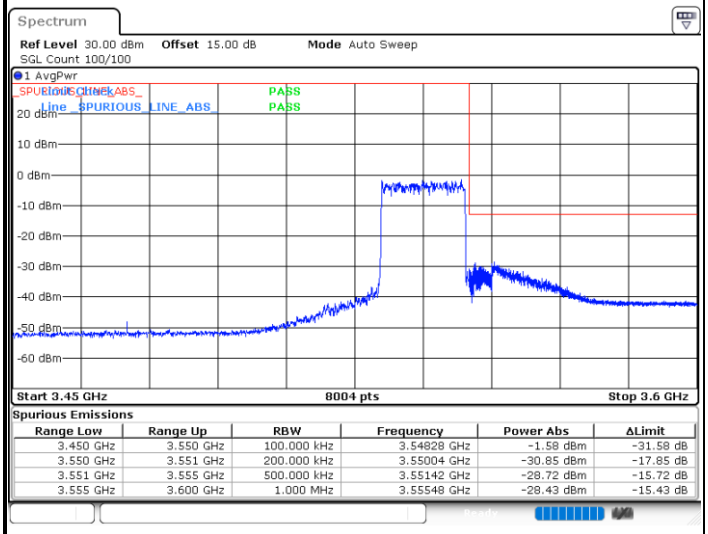
FR1 UL-MIMO n77 / 100MHz / CP-OFDM (Ant5)	
QPSK	**16QAM**
Middle Channel	**Middle Channel**
	
64QAM	**256QAM**
Middle Channel	**Middle Channel**
	

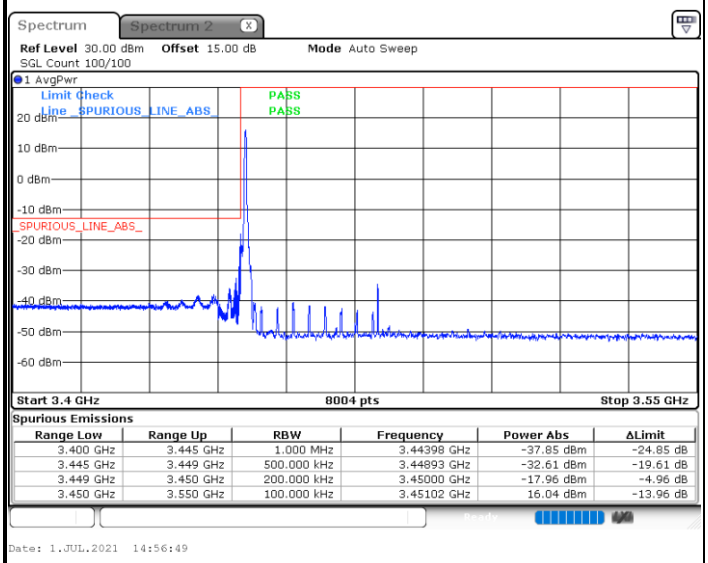
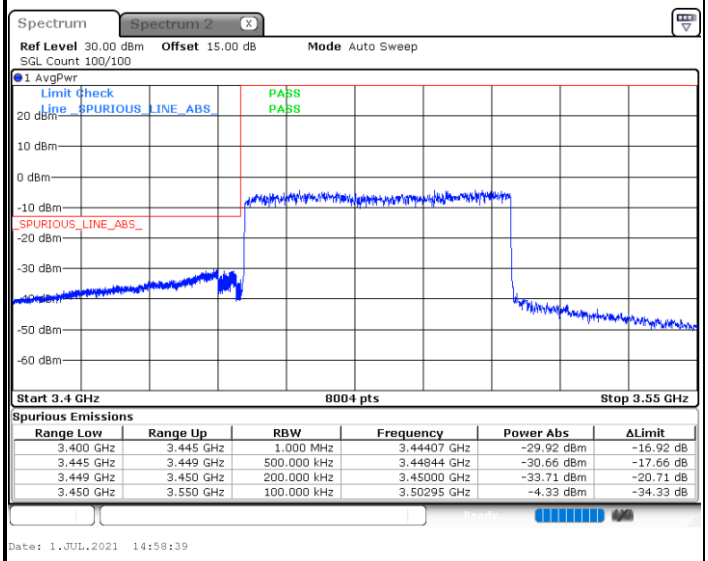
Conducted Band Edge

FR1 UL-MIMO n77 / 20MHz / CP-OFDM QPSK (ANT4)	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

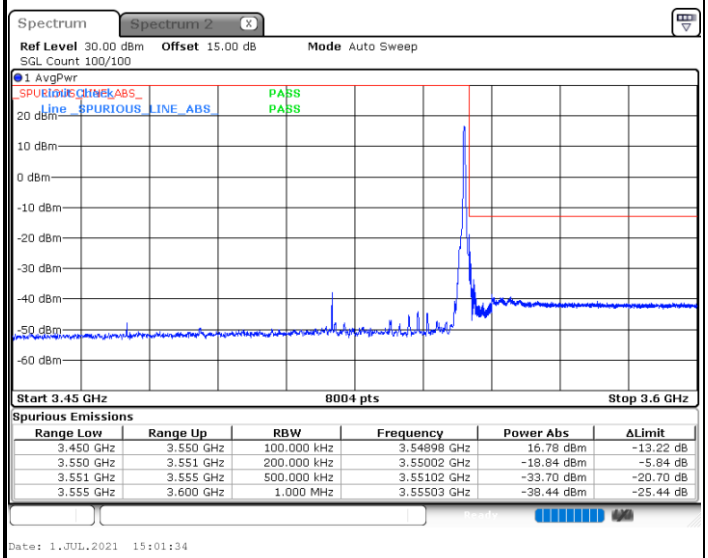
FR1 UL-MIMO n77 / 20MHz / CP-OFDM QPSK (ANT4)	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 UL-MIMO n77 / 20MHz / CP-OFDM QPSK (Ant5)	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.400 GHz / 3.445 GHz / 1.000 MHz / 3.44476 GHz / -34.25 dBm / -21.25 dB 3.445 GHz / 3.449 GHz / 500.000 kHz / 3.44785 GHz / -33.34 dBm / -20.34 dB 3.449 GHz / 3.450 GHz / 200.000 kHz / 3.44997 GHz / -20.90 dBm / -7.90 dB 3.450 GHz / 3.550 GHz / 100.000 kHz / 3.45102 GHz / 12.52 dBm / -17.48 dB Date: 2.JUL.2021 10:30:14	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.400 GHz / 3.445 GHz / 1.000 MHz / 3.44499 GHz / -31.82 dBm / -18.82 dB 3.445 GHz / 3.449 GHz / 500.000 kHz / 3.44876 GHz / -27.56 dBm / -14.56 dB 3.449 GHz / 3.450 GHz / 200.000 kHz / 3.44996 GHz / -30.25 dBm / -17.25 dB 3.450 GHz / 3.550 GHz / 100.000 kHz / 3.45572 GHz / -3.85 dBm / -33.85 dB Date: 2.JUL.2021 10:26:58	/

FR1 UL-MIMO n77 / 20MHz / CP-OFDM QPSK (Ant5)	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.450 GHz / 3.550 GHz / 100.000 kHz / 3.54913 GHz / 12.66 dBm / -17.34 dB 3.550 GHz / 3.551 GHz / 200.000 kHz / 3.55000 GHz / -19.16 dBm / -6.16 dB 3.551 GHz / 3.555 GHz / 500.000 kHz / 3.55109 GHz / -31.52 dBm / -18.52 dB 3.555 GHz / 3.600 GHz / 1.000 MHz / 3.55510 GHz / -33.85 dBm / -20.85 dB Date: 2.JUL.2021 10:42:40	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.450 GHz / 3.550 GHz / 100.000 kHz / 3.54828 GHz / -1.58 dBm / -31.58 dB 3.550 GHz / 3.551 GHz / 200.000 kHz / 3.55004 GHz / -30.85 dBm / -17.85 dB 3.551 GHz / 3.555 GHz / 500.000 kHz / 3.55142 GHz / -28.72 dBm / -15.72 dB 3.555 GHz / 3.600 GHz / 1.000 MHz / 3.55548 GHz / -28.43 dBm / -15.43 dB Date: 2.JUL.2021 10:43:38	/

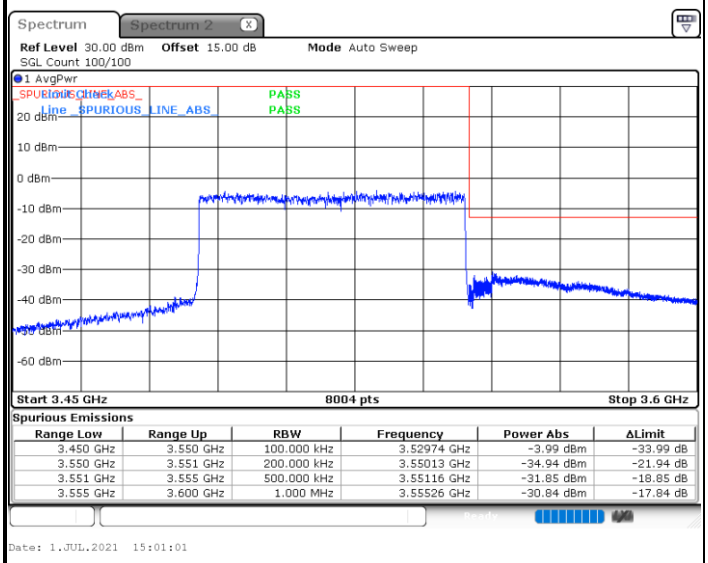
FR1 UL-MIMO n77 / 60MHz / CP-OFDM QPSK (ANT4)	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 UL-MIMO n77 / 60MHz / CP-OFDM QPSK (ANT4)	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**



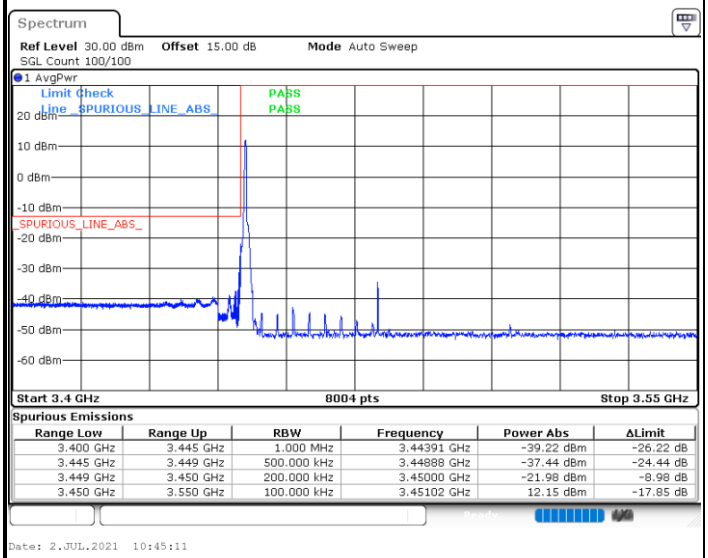
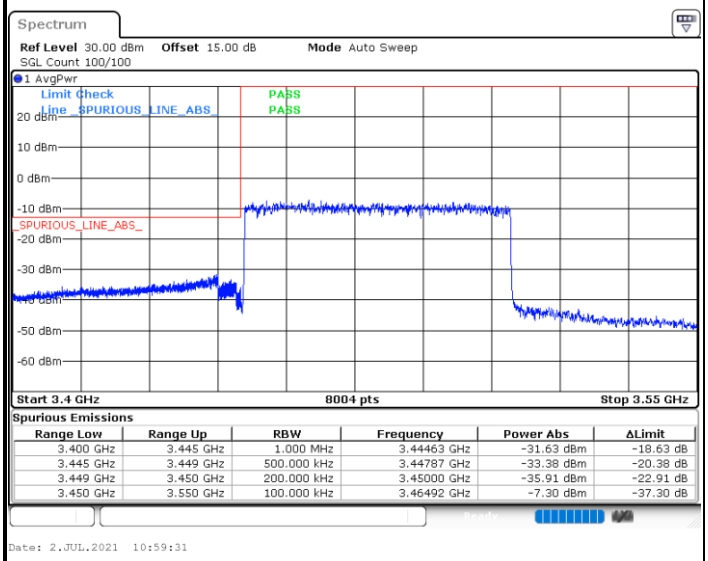
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.450 GHz	3.550 GHz	100.000 kHz	3.54898 GHz	16.78 dBm	-13.22 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55002 GHz	-18.84 dBm	-5.84 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55102 GHz	-33.70 dBm	-20.70 dB
3.555 GHz	3.600 GHz	1.000 MHz	3.55503 GHz	-38.44 dBm	-25.44 dB

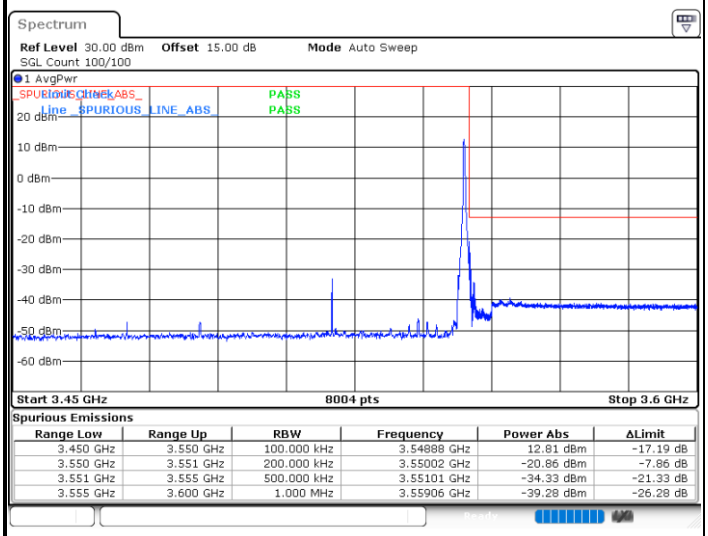
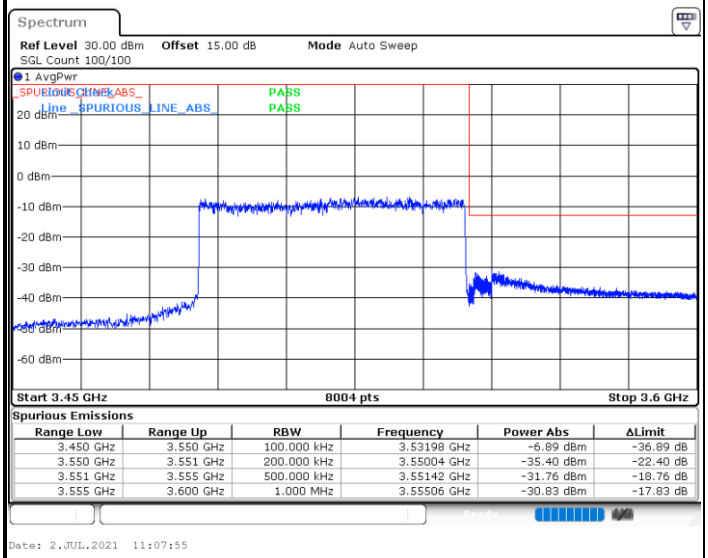
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**

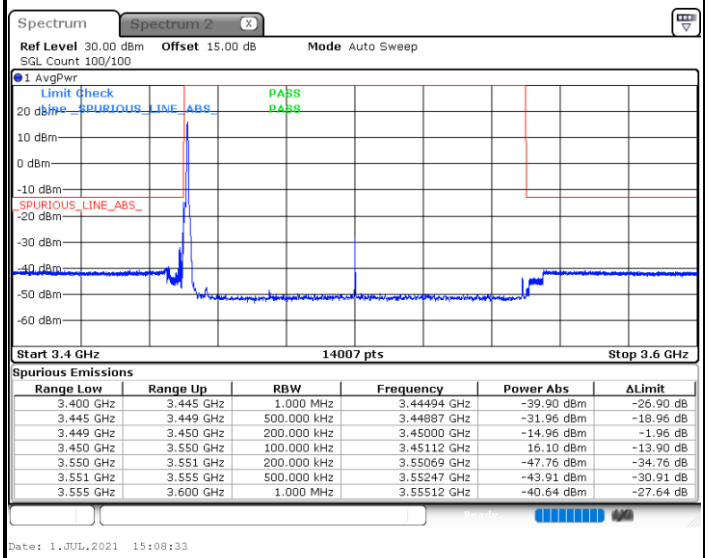
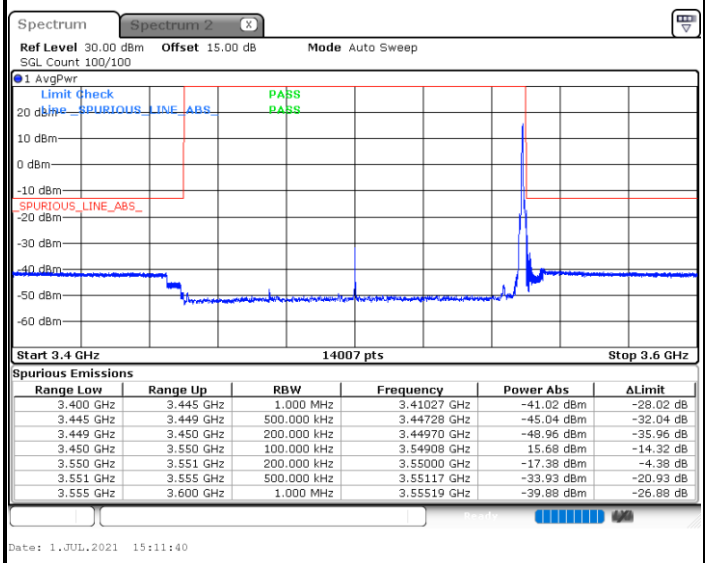


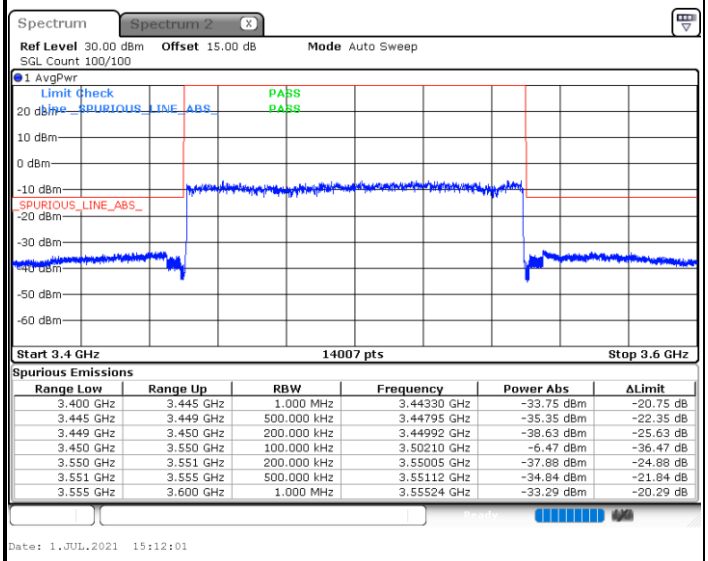
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.450 GHz	3.550 GHz	100.000 kHz	3.52974 GHz	-3.99 dBm	-33.99 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55013 GHz	-34.94 dBm	-21.94 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55116 GHz	-31.85 dBm	-18.85 dB
3.555 GHz	3.600 GHz	1.000 MHz	3.55526 GHz	-30.84 dBm	-17.84 dB

/

FR1 UL-MIMO n77 / 60MHz / CP-OFDM QPSK (Ant5)	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

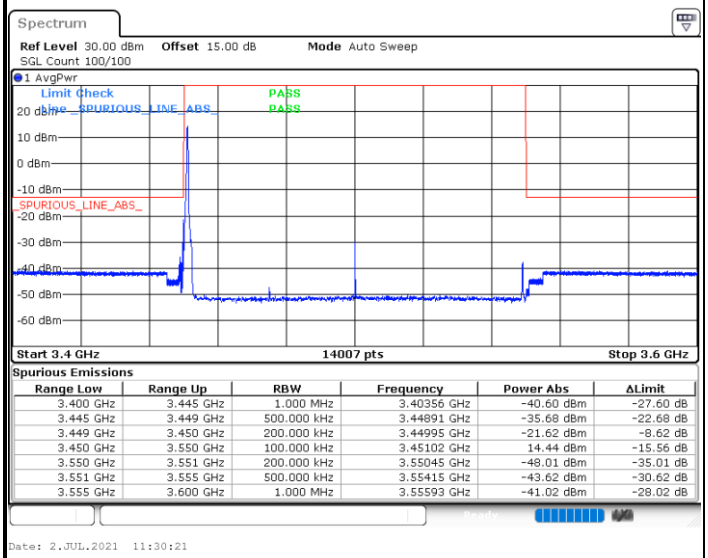
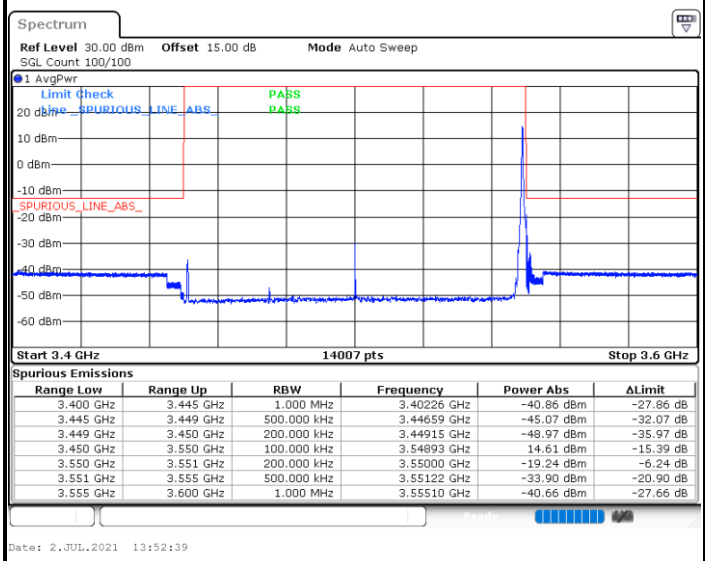
FR1 UL-MIMO n77 / 60MHz / CP-OFDM QPSK (Ant5)	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 UL-MIMO n77 / 100MHz / CP-OFDM QPSK (ANT4)	
Middle Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.400 GHz / 3.445 GHz / 1.000 MHz / 3.44494 GHz / -39.90 dBm / -26.90 dB 3.445 GHz / 3.449 GHz / 500.000 kHz / 3.44887 GHz / -31.96 dBm / -18.96 dB 3.449 GHz / 3.450 GHz / 200.000 kHz / 3.45000 GHz / -14.96 dBm / -1.96 dB 3.450 GHz / 3.550 GHz / 100.000 kHz / 3.45112 GHz / 16.10 dBm / -13.90 dB 3.550 GHz / 3.551 GHz / 200.000 kHz / 3.55069 GHz / -47.76 dBm / -34.76 dB 3.551 GHz / 3.555 GHz / 500.000 kHz / 3.55247 GHz / -43.91 dBm / -30.91 dB 3.555 GHz / 3.600 GHz / 1.000 MHz / 3.55512 GHz / -40.64 dBm / -27.64 dB Date: 1.JUL.2021 15:08:33	/
Middle Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.400 GHz / 3.445 GHz / 1.000 MHz / 3.41027 GHz / -41.02 dBm / -28.02 dB 3.445 GHz / 3.449 GHz / 500.000 kHz / 3.44728 GHz / -45.04 dBm / -32.04 dB 3.449 GHz / 3.450 GHz / 200.000 kHz / 3.44970 GHz / -48.96 dBm / -35.96 dB 3.450 GHz / 3.550 GHz / 100.000 kHz / 3.54908 GHz / 15.68 dBm / -14.32 dB 3.550 GHz / 3.551 GHz / 200.000 kHz / 3.55000 GHz / -17.38 dBm / -4.38 dB 3.551 GHz / 3.555 GHz / 500.000 kHz / 3.55117 GHz / -33.93 dBm / -20.93 dB 3.555 GHz / 3.600 GHz / 1.000 MHz / 3.55519 GHz / -39.88 dBm / -26.88 dB Date: 1.JUL.2021 15:11:40	/

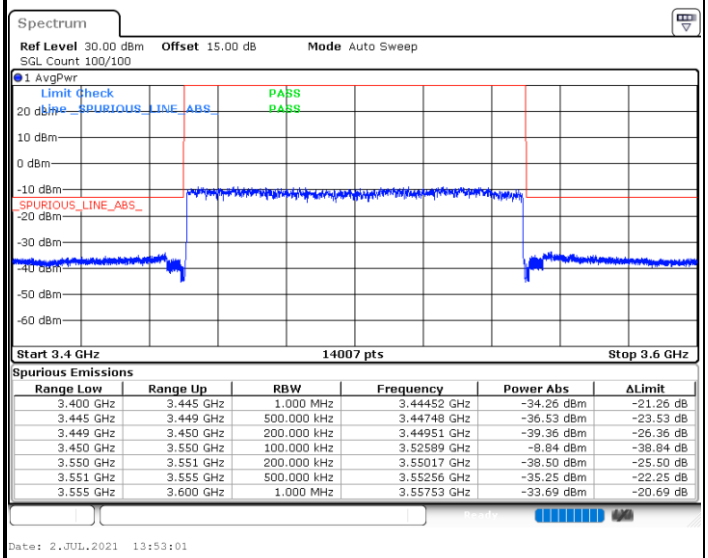
FR1 UL-MIMO n77 / 100MHz / CP-OFDM QPSK (ANT4)	
Middle Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.400 GHz	3.445 GHz	1.000 MHz	3.44330 GHz	-33.75 dBm	-20.75 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44795 GHz	-35.35 dBm	-22.35 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44992 GHz	-38.63 dBm	-25.63 dB
3.450 GHz	3.550 GHz	100.000 kHz	3.50210 GHz	-6.47 dBm	-36.47 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55005 GHz	-37.88 dBm	-24.88 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55112 GHz	-34.84 dBm	-21.84 dB
3.555 GHz	3.600 GHz	1.000 MHz	3.55524 GHz	-33.29 dBm	-20.29 dB

FR1 UL-MIMO n77 / 100MHz / CP-OFDM QPSK (Ant5)	
Middle Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.400 GHz / 3.445 GHz / 1.000 MHz / 3.40356 GHz / -40.60 dBm / -27.60 dB 3.445 GHz / 3.449 GHz / 500.000 kHz / 3.44891 GHz / -35.68 dBm / -22.68 dB 3.449 GHz / 3.450 GHz / 200.000 kHz / 3.44995 GHz / -21.62 dBm / -8.62 dB 3.450 GHz / 3.550 GHz / 100.000 kHz / 3.45102 GHz / 14.44 dBm / -15.56 dB 3.550 GHz / 3.551 GHz / 200.000 kHz / 3.55045 GHz / -48.01 dBm / -35.01 dB 3.551 GHz / 3.555 GHz / 500.000 kHz / 3.55415 GHz / -43.62 dBm / -30.62 dB 3.555 GHz / 3.600 GHz / 1.000 MHz / 3.55593 GHz / -41.02 dBm / -28.02 dB Date: 2.JUL.2021 11:30:21	/
Middle Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.400 GHz / 3.445 GHz / 1.000 MHz / 3.40226 GHz / -40.86 dBm / -27.86 dB 3.445 GHz / 3.449 GHz / 500.000 kHz / 3.44659 GHz / -45.07 dBm / -32.07 dB 3.449 GHz / 3.450 GHz / 200.000 kHz / 3.44915 GHz / -48.97 dBm / -35.97 dB 3.450 GHz / 3.550 GHz / 100.000 kHz / 3.54893 GHz / 14.61 dBm / -15.39 dB 3.550 GHz / 3.551 GHz / 200.000 kHz / 3.55000 GHz / -19.24 dBm / -6.24 dB 3.551 GHz / 3.555 GHz / 500.000 kHz / 3.55122 GHz / -33.90 dBm / -20.90 dB 3.555 GHz / 3.600 GHz / 1.000 MHz / 3.55510 GHz / -40.66 dBm / -27.66 dB Date: 2.JUL.2021 13:52:39	/

FR1 UL-MIMO n77 / 100MHz / CP-OFDM QPSK (Ant5)	
Middle Band Edge / Full RB	**Channel Power < -13dBm Pass**



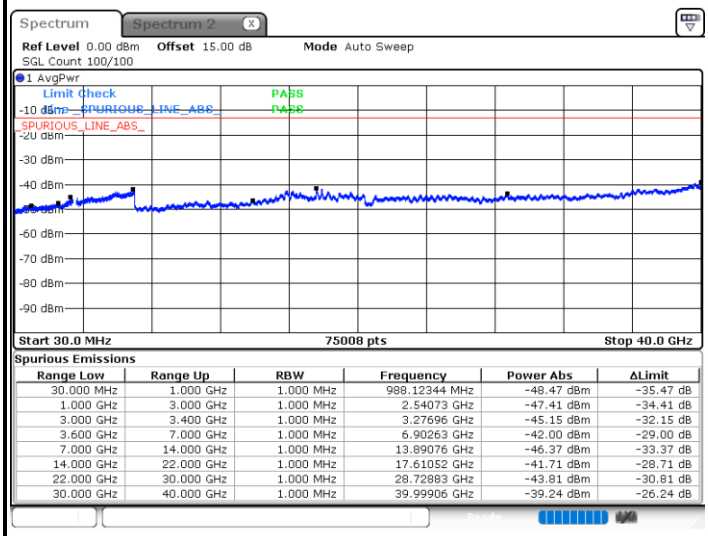
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.400 GHz	3.445 GHz	1.000 MHz	3.44452 GHz	-34.26 dBm	-21.26 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44748 GHz	-36.53 dBm	-23.53 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44951 GHz	-39.36 dBm	-26.36 dB
3.450 GHz	3.550 GHz	100.000 kHz	3.52589 GHz	-8.84 dBm	-38.84 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55017 GHz	-38.50 dBm	-25.50 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55256 GHz	-35.25 dBm	-22.25 dB
3.555 GHz	3.600 GHz	1.000 MHz	3.55753 GHz	-33.69 dBm	-20.69 dB

Conducted Spurious Emission

FR1 UL-MIMO n77 / 20MHz / CP-OFDM QPSK (ANT4)

Lowest Channel / 1RB

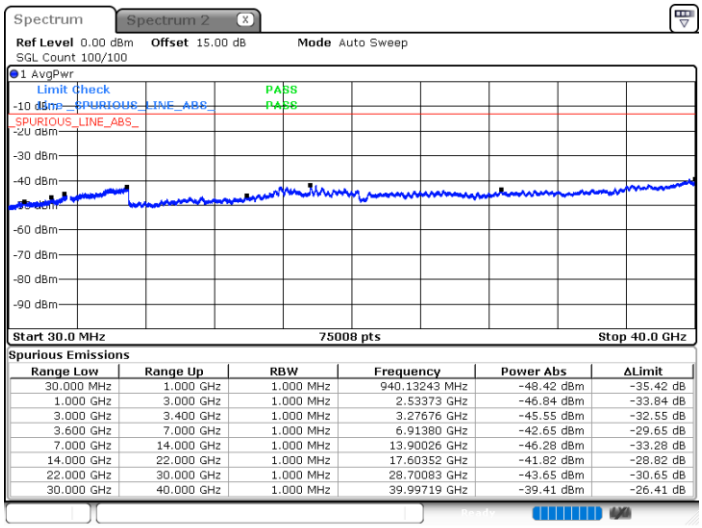


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	988.12344 MHz	-48.47 dBm	-35.47 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.54073 GHz	-47.41 dBm	-34.41 dB
3.000 GHz	3.400 GHz	1.000 MHz	3.27696 GHz	-45.15 dBm	-32.15 dB
3.600 GHz	7.000 GHz	1.000 MHz	6.90263 GHz	-42.00 dBm	-29.00 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.89076 GHz	-46.37 dBm	-33.37 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.61052 GHz	-41.71 dBm	-28.71 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.72883 GHz	-43.81 dBm	-30.81 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.99906 GHz	-39.24 dBm	-26.24 dB

Date: 1.JUL.2021 14:22:08

Middle Channel / 1RB

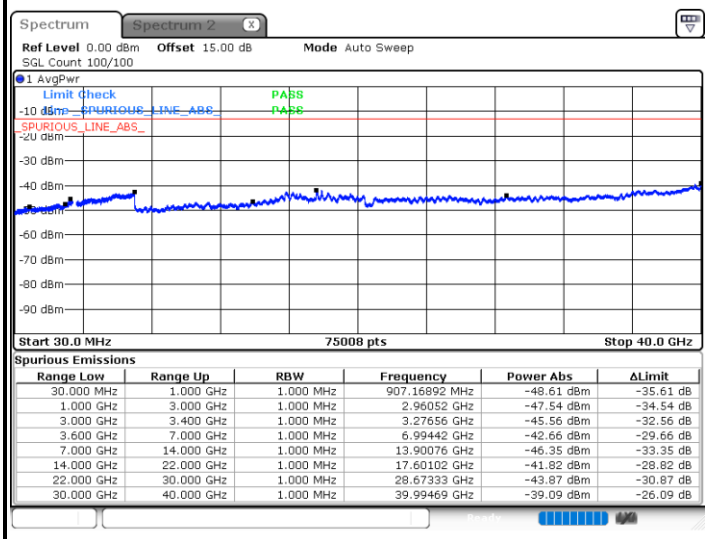


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	940.13243 MHz	-48.42 dBm	-35.42 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.53373 GHz	-46.84 dBm	-33.84 dB
3.000 GHz	3.400 GHz	1.000 MHz	3.27676 GHz	-45.55 dBm	-32.55 dB
3.600 GHz	7.000 GHz	1.000 MHz	6.91380 GHz	-42.65 dBm	-29.65 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.90026 GHz	-46.28 dBm	-33.28 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60352 GHz	-41.82 dBm	-28.82 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.70083 GHz	-43.65 dBm	-30.65 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.99719 GHz	-39.41 dBm	-26.41 dB

Date: 1.JUL.2021 14:37:56

Highest Channel / 1RB



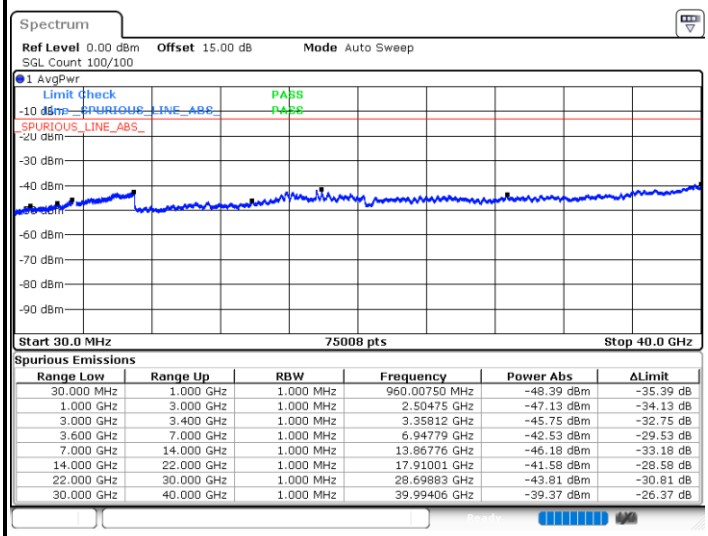
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	907.16892 MHz	-48.61 dBm	-35.61 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96052 GHz	-47.54 dBm	-34.54 dB
3.000 GHz	3.400 GHz	1.000 MHz	3.27656 GHz	-45.56 dBm	-32.56 dB
3.600 GHz	7.000 GHz	1.000 MHz	6.99442 GHz	-42.66 dBm	-29.66 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.90076 GHz	-46.35 dBm	-33.35 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60102 GHz	-41.82 dBm	-28.82 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.67333 GHz	-43.87 dBm	-30.87 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.99469 GHz	-39.09 dBm	-26.09 dB

Date: 1.JUL.2021 14:34:36

FR1 UL-MIMO n77 / 20MHz / CP-OFDM QPSK (Ant5)

Lowest Channel / 1RB

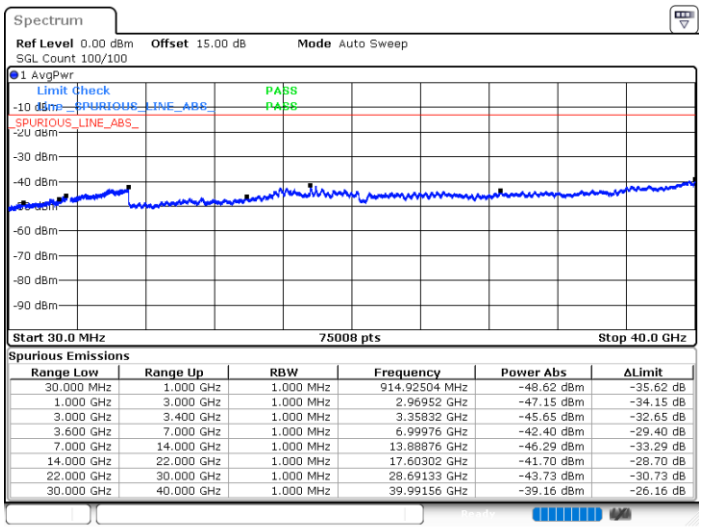


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	960.00750 MHz	-48.39 dBm	-35.39 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50475 GHz	-47.13 dBm	-34.13 dB
3.000 GHz	3.400 GHz	1.000 MHz	3.35812 GHz	-45.75 dBm	-32.75 dB
3.600 GHz	7.000 GHz	1.000 MHz	6.94779 GHz	-42.53 dBm	-29.53 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.86776 GHz	-46.18 dBm	-33.18 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.91001 GHz	-41.58 dBm	-28.58 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.69883 GHz	-43.81 dBm	-30.81 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.99406 GHz	-39.37 dBm	-26.37 dB

Date: 2.JUL.2021 10:32:13

Middle Channel / 1RB

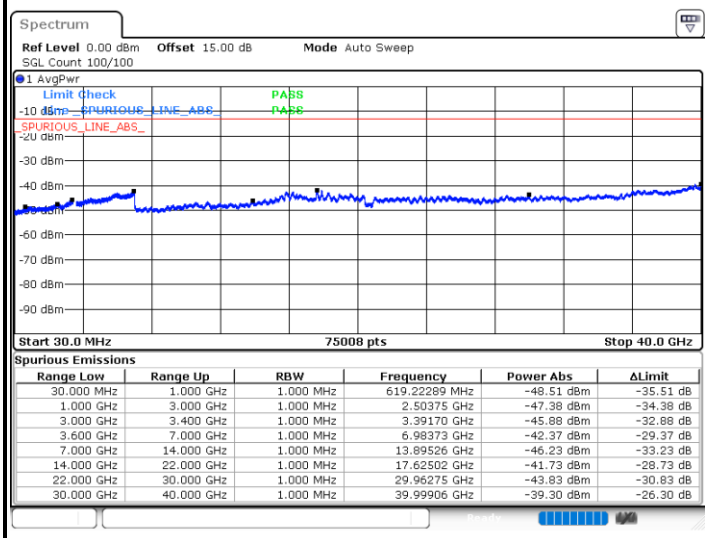


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	914.92504 MHz	-48.62 dBm	-35.62 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96952 GHz	-47.15 dBm	-34.15 dB
3.000 GHz	3.400 GHz	1.000 MHz	3.35832 GHz	-45.65 dBm	-32.65 dB
3.600 GHz	7.000 GHz	1.000 MHz	6.99976 GHz	-42.40 dBm	-29.40 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.88876 GHz	-46.29 dBm	-33.29 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60302 GHz	-41.70 dBm	-28.70 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.69133 GHz	-43.73 dBm	-30.73 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.99156 GHz	-39.16 dBm	-26.16 dB

Date: 2.JUL.2021 10:35:50

Highest Channel / 1RB



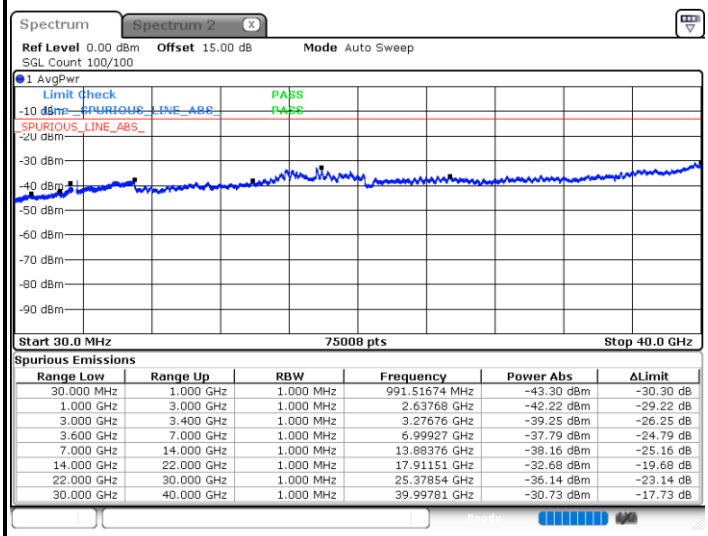
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	619.22289 MHz	-48.51 dBm	-35.51 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50375 GHz	-47.38 dBm	-34.38 dB
3.000 GHz	3.400 GHz	1.000 MHz	3.39170 GHz	-45.88 dBm	-32.88 dB
3.600 GHz	7.000 GHz	1.000 MHz	6.98373 GHz	-42.37 dBm	-29.37 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.89526 GHz	-46.23 dBm	-33.23 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.62502 GHz	-41.73 dBm	-28.73 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.96275 GHz	-43.83 dBm	-30.83 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.99906 GHz	-39.30 dBm	-26.30 dB

Date: 2.JUL.2021 10:41:36

FR1 UL-MIMO n77 / 60MHz / CP-OFDM QPSK (ANT4)

Lowest Channel / 1RB

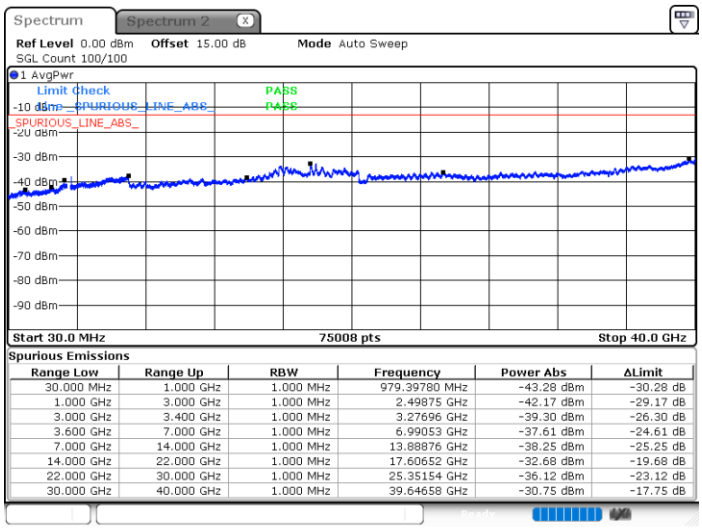


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	991.51674 MHz	-43.30 dBm	-30.30 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63768 GHz	-42.22 dBm	-29.22 dB
3.000 GHz	3.400 GHz	1.000 MHz	3.27676 GHz	-39.25 dBm	-26.25 dB
3.600 GHz	7.000 GHz	1.000 MHz	6.99927 GHz	-37.79 dBm	-24.79 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.88376 GHz	-38.16 dBm	-25.16 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.91151 GHz	-32.68 dBm	-19.68 dB
22.000 GHz	30.000 GHz	1.000 MHz	25.37854 GHz	-36.14 dBm	-23.14 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.99781 GHz	-30.73 dBm	-17.73 dB

Date: 1.JUL.2021 14:58:09

Middle Channel / 1RB

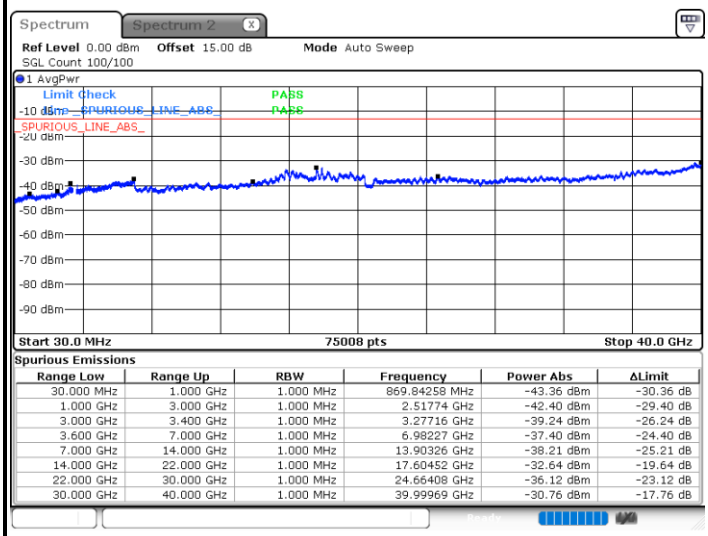


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	979.39780 MHz	-43.28 dBm	-30.28 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.49875 GHz	-42.17 dBm	-29.17 dB
3.000 GHz	3.400 GHz	1.000 MHz	3.27696 GHz	-39.30 dBm	-26.30 dB
3.600 GHz	7.000 GHz	1.000 MHz	6.99053 GHz	-37.61 dBm	-24.61 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.88876 GHz	-38.25 dBm	-25.25 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60652 GHz	-32.68 dBm	-19.68 dB
22.000 GHz	30.000 GHz	1.000 MHz	25.35154 GHz	-36.12 dBm	-23.12 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.64658 GHz	-30.75 dBm	-17.75 dB

Date: 1.JUL.2021 14:51:29

Highest Channel / 1RB



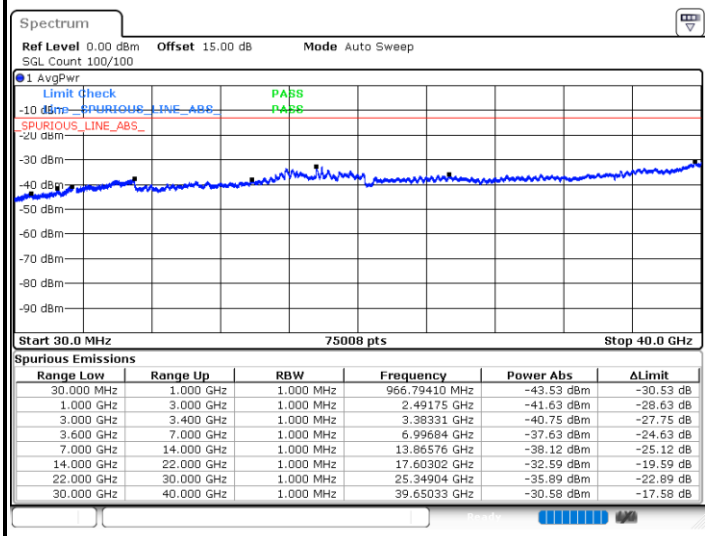
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	869.84258 MHz	-43.36 dBm	-30.36 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.51774 GHz	-42.40 dBm	-29.40 dB
3.000 GHz	3.400 GHz	1.000 MHz	3.27716 GHz	-39.24 dBm	-26.24 dB
3.600 GHz	7.000 GHz	1.000 MHz	6.98227 GHz	-37.40 dBm	-24.40 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.90326 GHz	-38.21 dBm	-25.21 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60452 GHz	-32.64 dBm	-19.64 dB
22.000 GHz	30.000 GHz	1.000 MHz	24.66408 GHz	-36.12 dBm	-23.12 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.99969 GHz	-30.76 dBm	-17.76 dB

Date: 1.JUL.2021 15:05:43

FR1 UL-MIMO n77 / 60MHz / CP-OFDM QPSK (Ant5)

Lowest Channel / 1RB

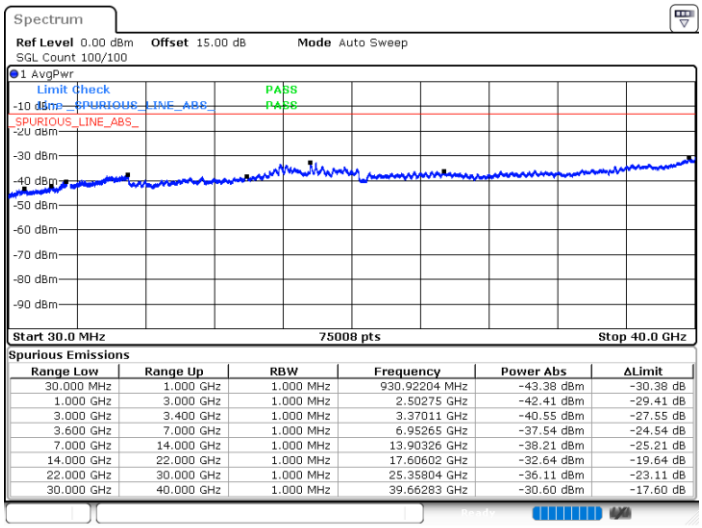


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	966.79410 MHz	-43.53 dBm	-30.53 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.49175 GHz	-41.63 dBm	-28.63 dB
3.000 GHz	3.400 GHz	1.000 MHz	3.38331 GHz	-40.75 dBm	-27.75 dB
3.600 GHz	7.000 GHz	1.000 MHz	6.99684 GHz	-37.63 dBm	-24.63 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.86576 GHz	-38.12 dBm	-25.12 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60302 GHz	-32.59 dBm	-19.59 dB
22.000 GHz	30.000 GHz	1.000 MHz	25.34904 GHz	-35.89 dBm	-22.89 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.65033 GHz	-30.58 dBm	-17.58 dB

Date: 2.JUL.2021 10:46:33

Middle Channel / 1RB

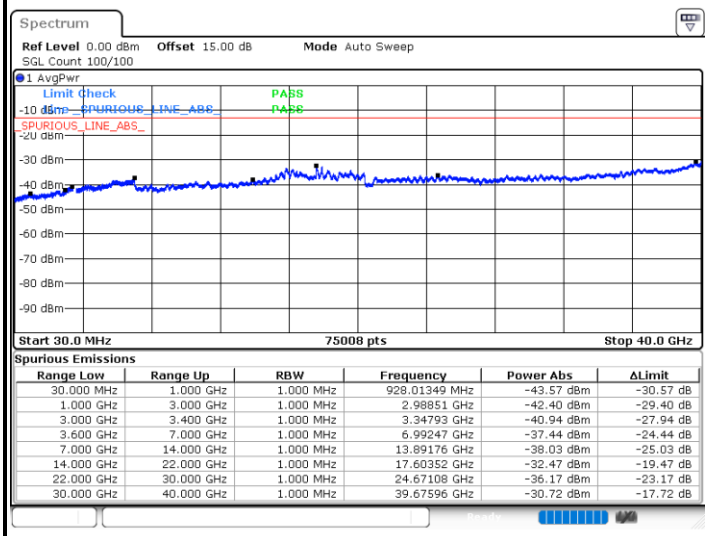


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	930.92204 MHz	-43.38 dBm	-30.38 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50275 GHz	-42.41 dBm	-29.41 dB
3.000 GHz	3.400 GHz	1.000 MHz	3.37011 GHz	-40.55 dBm	-27.55 dB
3.600 GHz	7.000 GHz	1.000 MHz	6.95265 GHz	-37.54 dBm	-24.54 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.90326 GHz	-38.21 dBm	-25.21 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60602 GHz	-32.64 dBm	-19.64 dB
22.000 GHz	30.000 GHz	1.000 MHz	25.35804 GHz	-36.11 dBm	-23.11 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.66283 GHz	-30.60 dBm	-17.60 dB

Date: 2.JUL.2021 11:01:28

Highest Channel / 1RB

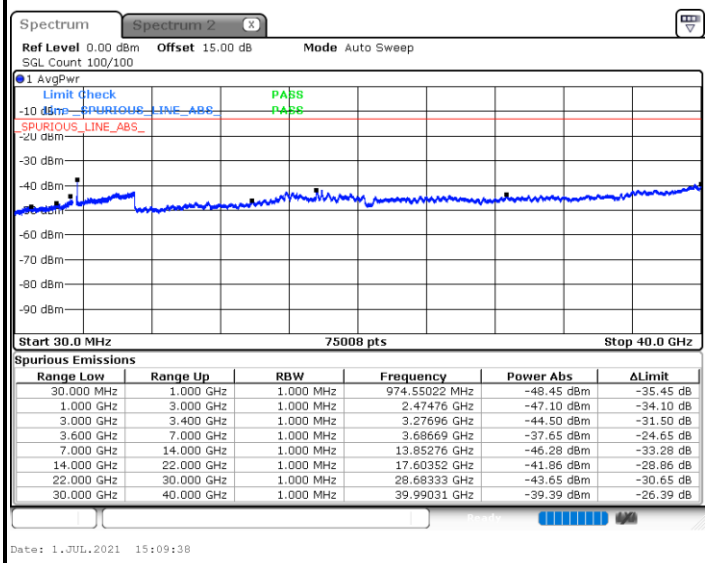


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	928.01349 MHz	-43.57 dBm	-30.57 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98851 GHz	-42.40 dBm	-29.40 dB
3.000 GHz	3.400 GHz	1.000 MHz	3.34793 GHz	-40.94 dBm	-27.94 dB
3.600 GHz	7.000 GHz	1.000 MHz	6.99247 GHz	-37.44 dBm	-24.44 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.89176 GHz	-38.03 dBm	-25.03 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60352 GHz	-32.47 dBm	-19.47 dB
22.000 GHz	30.000 GHz	1.000 MHz	24.67108 GHz	-36.17 dBm	-23.17 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.67596 GHz	-30.72 dBm	-17.72 dB

Date: 2.JUL.2021 11:06:17

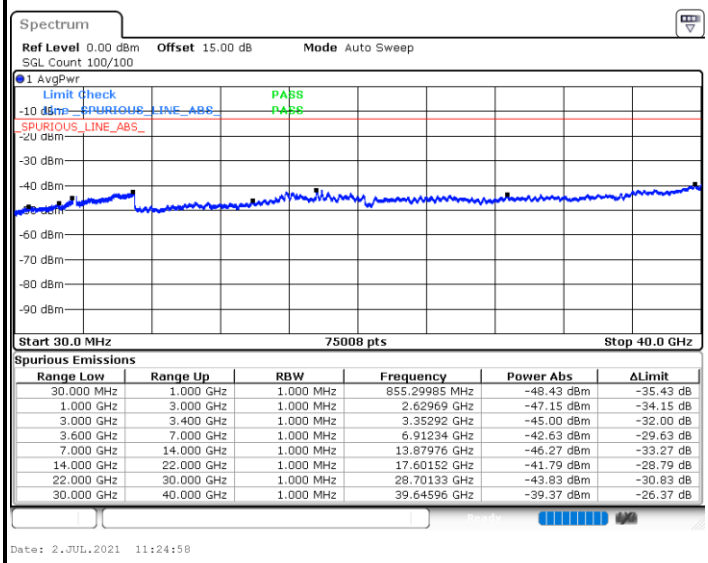
FR1 UL-MIMO n77 / 100MHz / CP-OFDM QPSK (ANT4)	
Middle Channel / 1RB	



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	974.55022 MHz	-48.45 dBm	-35.45 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.47476 GHz	-47.10 dBm	-34.10 dB
3.000 GHz	3.400 GHz	1.000 MHz	3.27696 GHz	-44.50 dBm	-31.50 dB
3.600 GHz	7.000 GHz	1.000 MHz	3.68669 GHz	-37.65 dBm	-24.65 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.85276 GHz	-46.28 dBm	-33.28 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60352 GHz	-41.86 dBm	-28.86 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.68333 GHz	-43.65 dBm	-30.65 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.99031 GHz	-39.39 dBm	-26.39 dB

FR1 UL-MIMO n77 / 100MHz / CP-OFDM QPSK (Ant5)	
Middle Channel / 1RB	



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	855.29985 MHz	-48.43 dBm	-35.43 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.62969 GHz	-47.15 dBm	-34.15 dB
3.000 GHz	3.400 GHz	1.000 MHz	3.35292 GHz	-45.00 dBm	-32.00 dB
3.600 GHz	7.000 GHz	1.000 MHz	6.91234 GHz	-42.63 dBm	-29.63 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.87976 GHz	-46.27 dBm	-33.27 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60152 GHz	-41.79 dBm	-28.79 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.70133 GHz	-43.83 dBm	-30.83 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.64596 GHz	-39.37 dBm	-26.37 dB

Date: 2.JUL.2021 11:24:58

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	0.0002	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage =3.85 V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

SA n77 UL MIMO / NR 100MHz / QPSK DFT-s-OFDM / ANT5+ANT4(NR)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6900	-61.45	-13	-48.45	-71.93	2.76	13.24	H
	10356	-58.24	-13	-45.24	-67.83	3.42	13.01	H
	13818	-58.10	-13	-45.10	-67.71	3.83	13.44	H
	6900	-56.65	-13	-43.65	-67.09	2.80	13.24	V
	10356	-54.25	-13	-41.25	-63.80	3.46	13.01	V
	13824	-58.44	-13	-45.44	-68.00	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

SA n77 / NR 100MHz / QPSK DFT-s-OFDM / ANT4(NR)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6900	-59.36	-13	-46.36	-69.84	2.76	13.24	H
	10356	-55.56	-13	-42.56	-65.15	3.42	13.01	H
	13818	-58.17	-13	-45.17	-67.78	3.83	13.44	H
	6900	-53.54	-13	-40.54	-63.98	2.80	13.24	V
	10356	-52.93	-13	-39.93	-62.48	3.46	13.01	V
	13818	-58.24	-13	-45.24	-67.80	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_13A_n77 / LTE 10MHz + NR 100MHz / QPSK / ANT0LTE) & ANT4(NR)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6912	-62.80	-13	-49.80	-73.28	2.76	13.24	H
	10368	-59.76	-13	-46.76	-69.35	3.42	13.01	H
	13818	-58.06	-13	-45.06	-67.67	3.83	13.44	H
	6912	-62.52	-13	-49.52	-72.96	2.80	13.24	V
	10368	-59.53	-13	-46.53	-69.08	3.46	13.01	V
	13818	-58.04	-13	-45.04	-67.60	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_2A_n77 / LTE 10MHz + NR 100MHz / QPSK / ANT0LTE) & ANT4(NR)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6900	-62.59	-13	-49.59	-73.07	2.76	13.24	H
	10356	-59.36	-13	-46.36	-68.95	3.42	13.01	H
	13818	-58.10	-13	-45.10	-67.71	3.83	13.44	H
	6900	-58.06	-13	-45.06	-68.50	2.80	13.24	V
	10356	-57.61	-13	-44.61	-67.16	3.46	13.01	V
	13818	-58.36	-13	-45.36	-67.92	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_66A_n77 / LTE 10MHz + NR 100MHz / QPSK / ANT0LTE) & ANT4(NR)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6912	-62.43	-13	-49.43	-72.91	2.76	13.24	H
	10368	-59.68	-13	-46.68	-69.27	3.42	13.01	H
	13818	-58.34	-13	-45.34	-67.95	3.83	13.44	H
	6912	-62.32	-13	-49.32	-72.76	2.80	13.24	V
	10368	-59.86	-13	-46.86	-69.41	3.46	13.01	V
	13818	-58.24	-13	-45.24	-67.80	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.