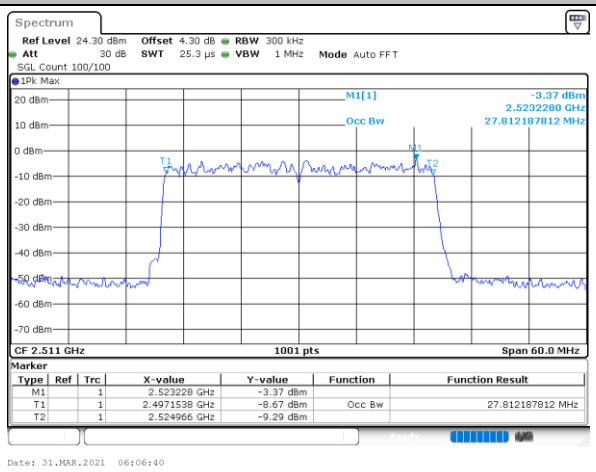
FR1 n41 / 30MHz / CP-OFDM

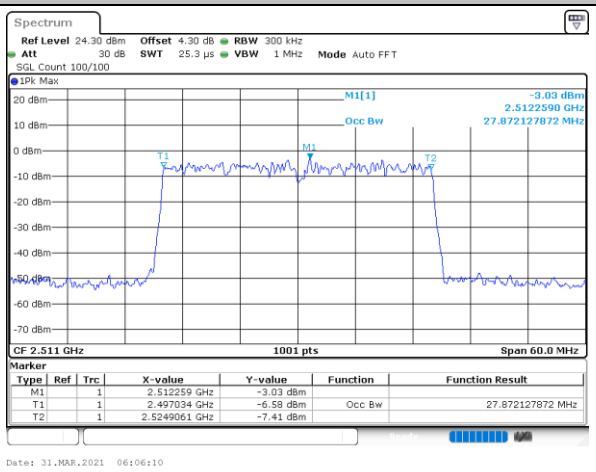
QPSK

Lowerst Channel



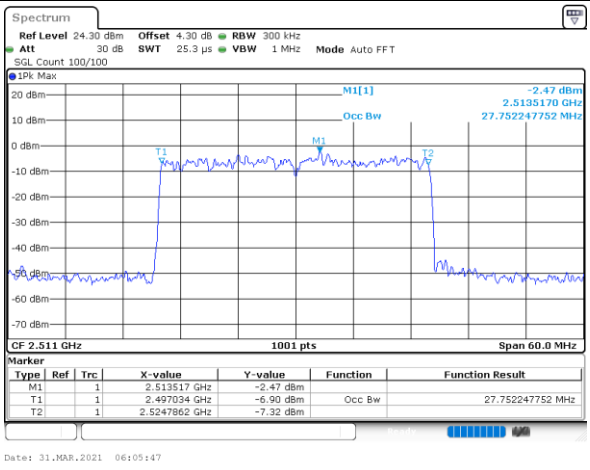
16QAM

Lowerst Channel



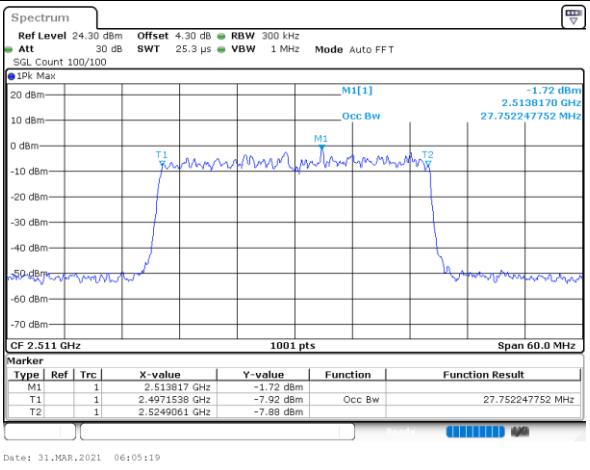
64QAM

Lowerst Channel



256QAM

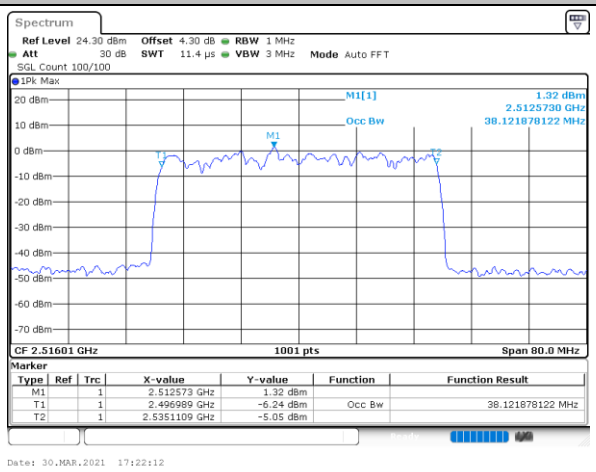
Lowerst Channel



FR1 n41 / 40MHz / CP-OFDM

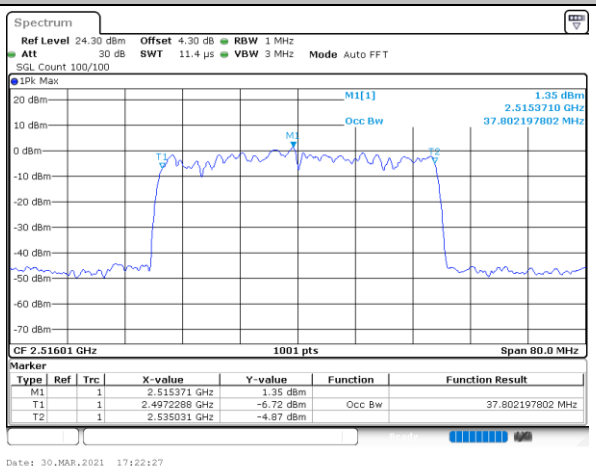
QPSK

Lowerst Channel



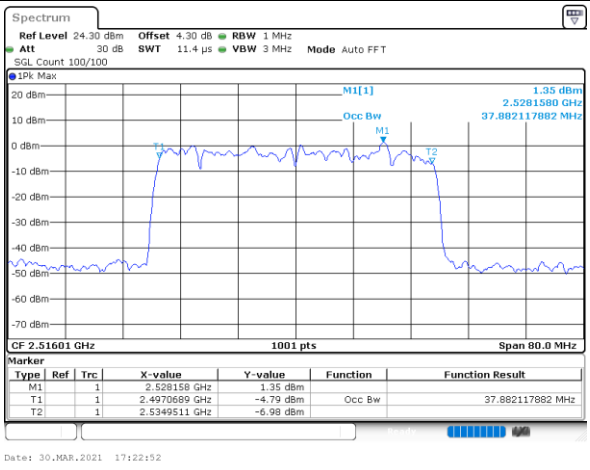
16QAM

Lowerst Channel



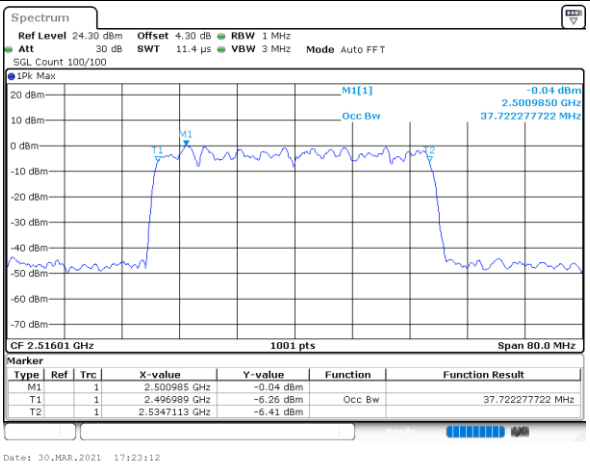
64QAM

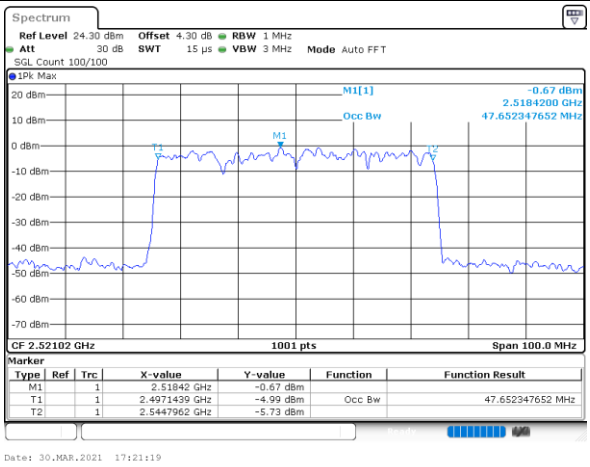
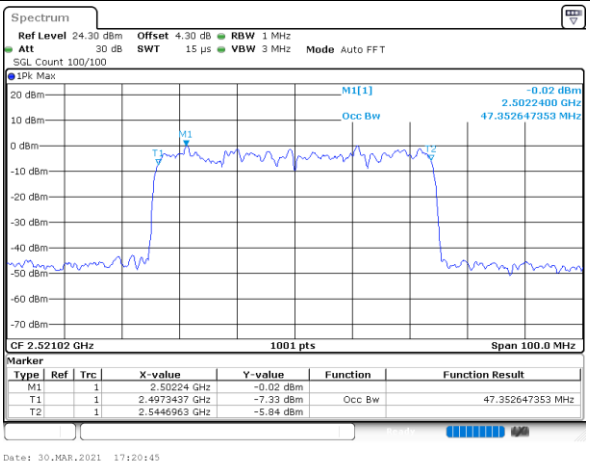
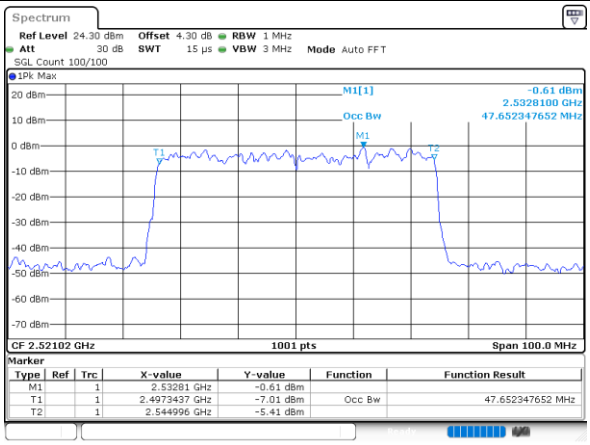
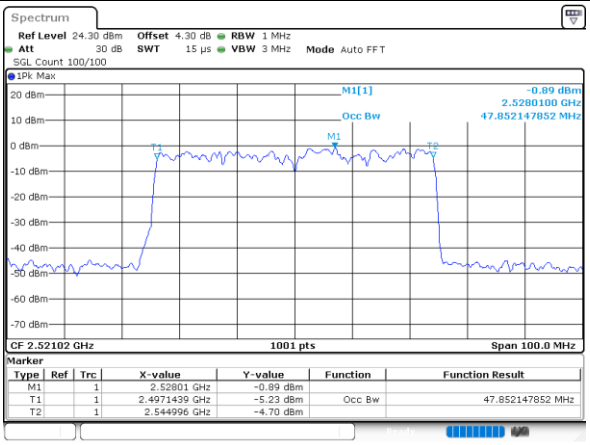
Lowerst Channel



256QAM

Lowerst Channel

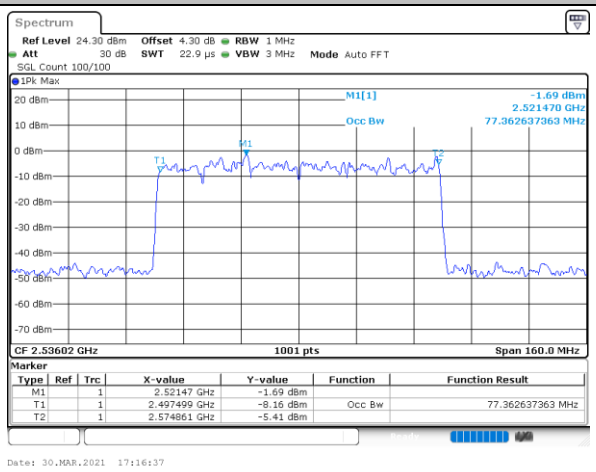


FR1 n41 / 50MHz / CP-OFDM	
QPSK	**16QAM**
Lowerst Channel	**Lowerst Channel**
	
64QAM	**256QAM**
Lowerst Channel	**Lowerst Channel**
	

FR1 n41 / 80MHz / CP-OFDM

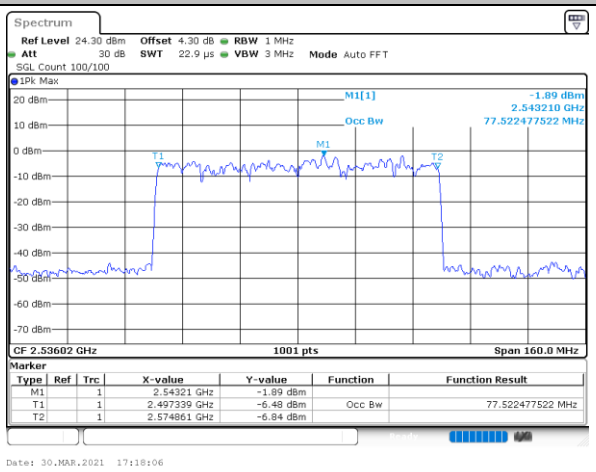
QPSK

Lowerst Channel



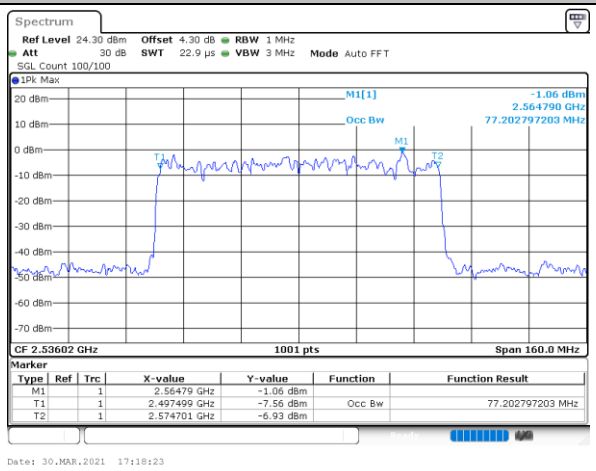
16QAM

Lowerst Channel



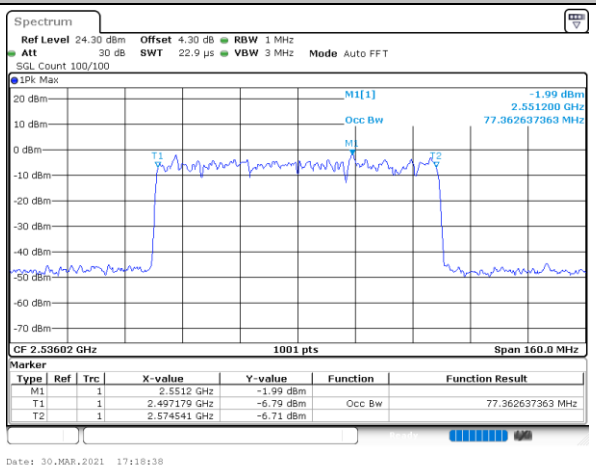
64QAM

Lowerst Channel

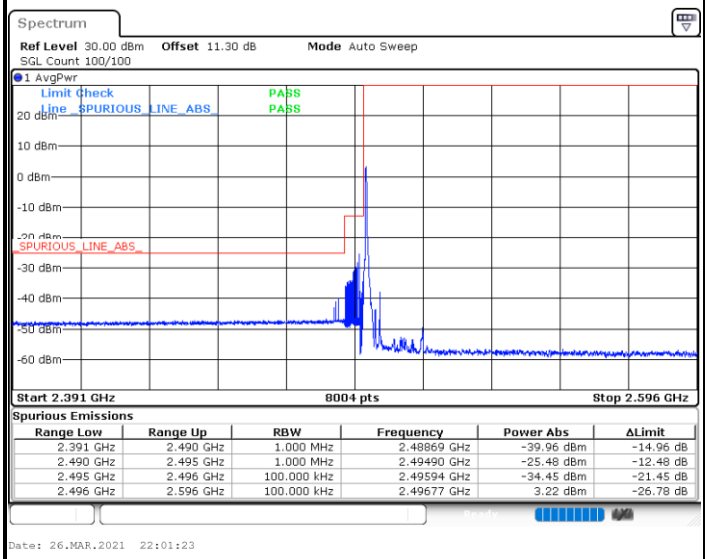
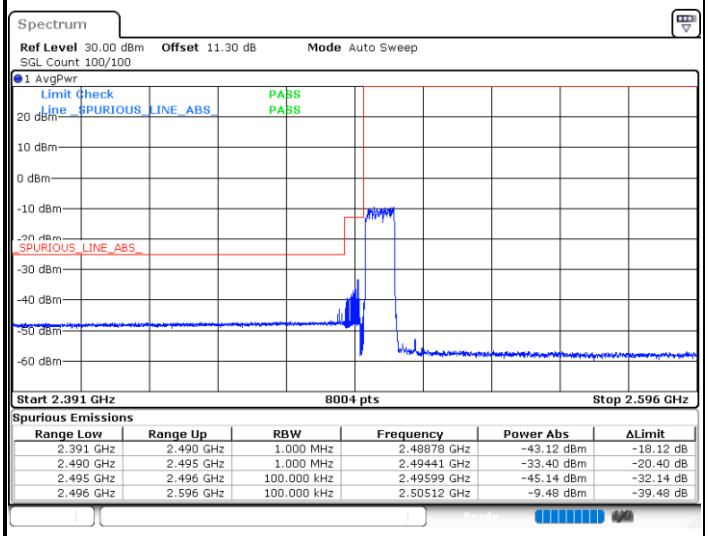


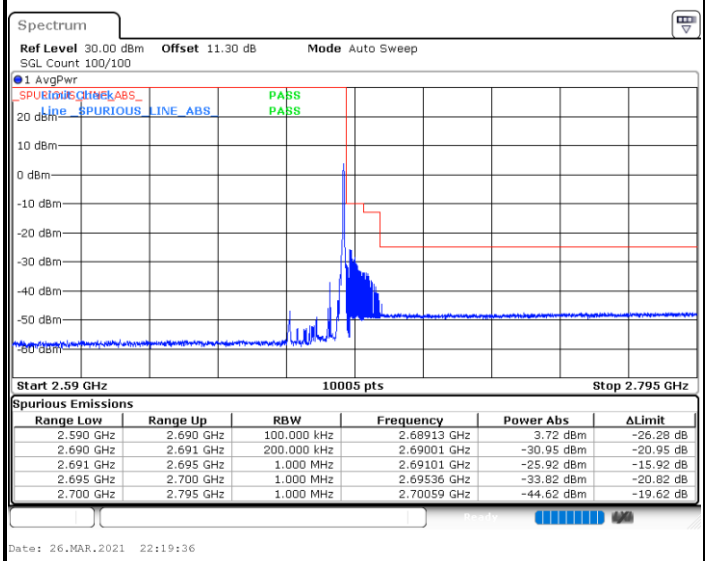
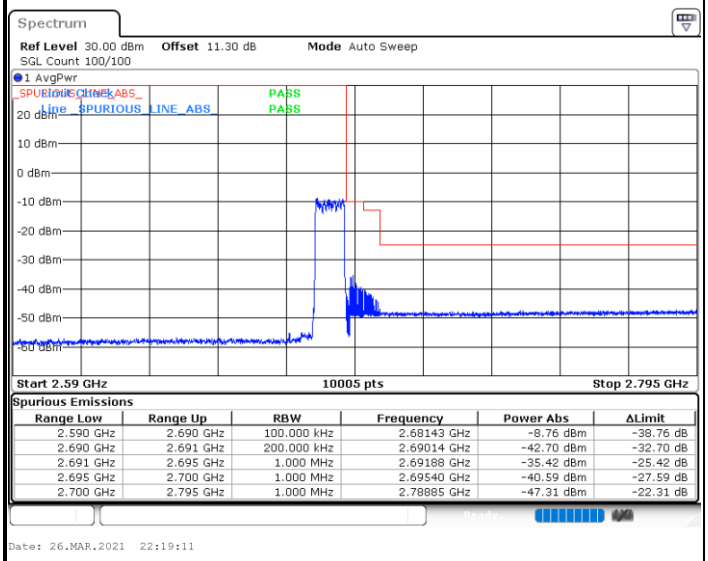
256QAM

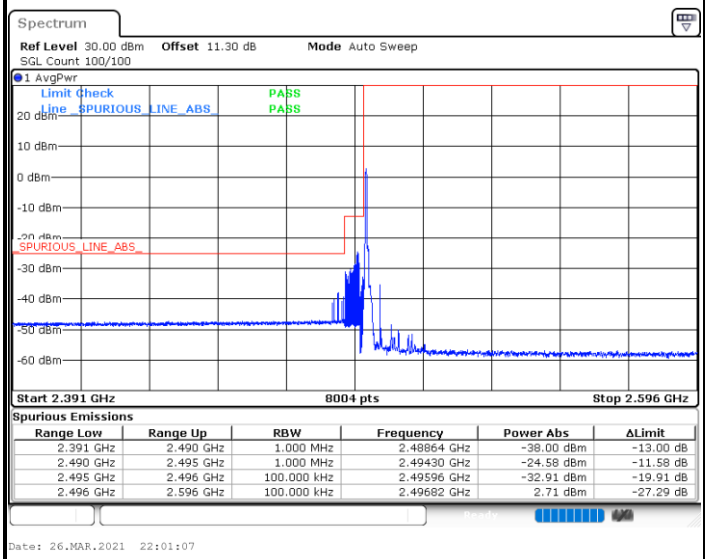
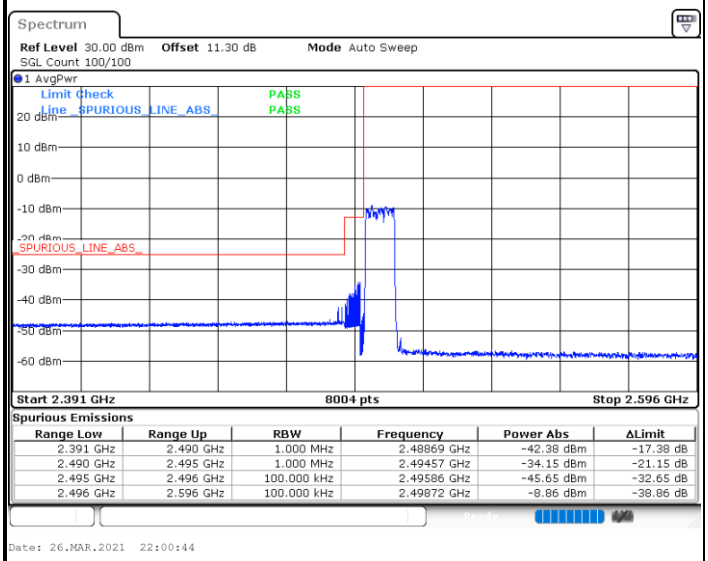
Lowerst Channel

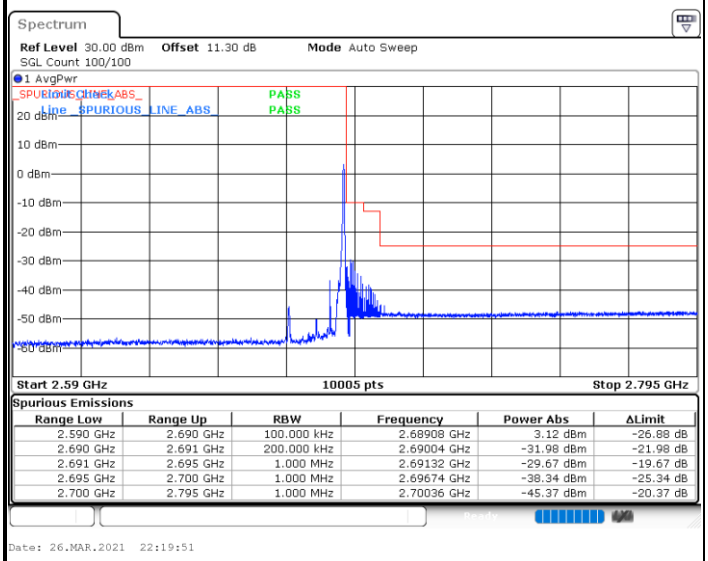
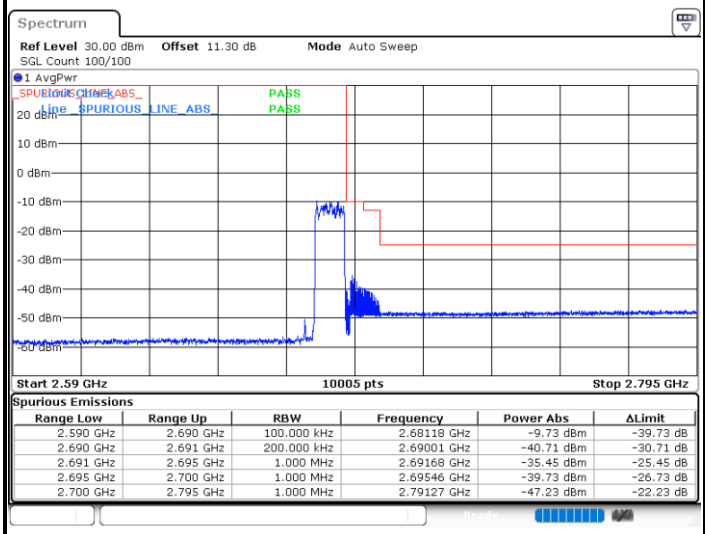


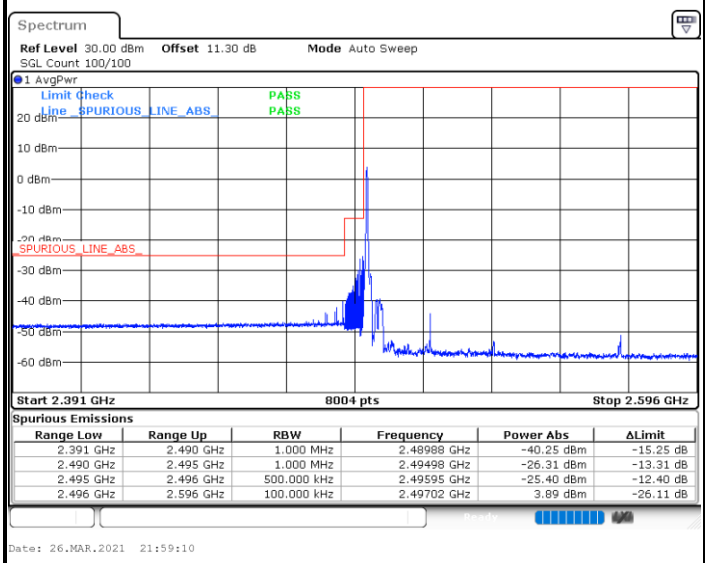
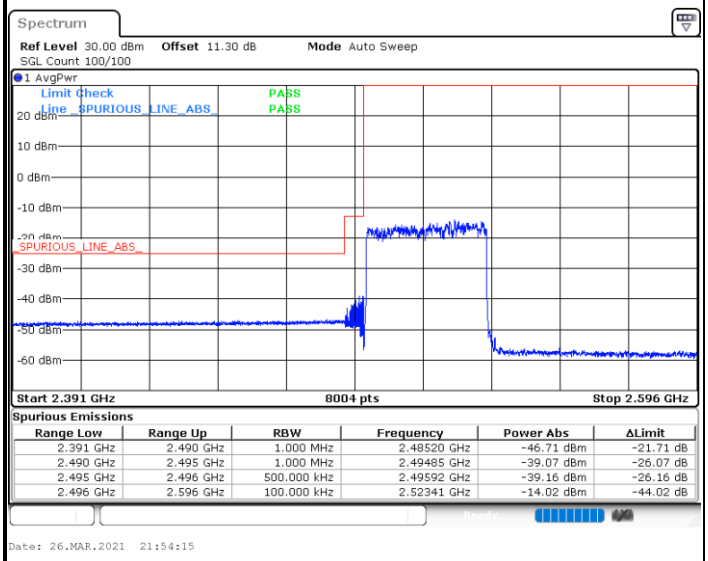
Conducted Band Edge

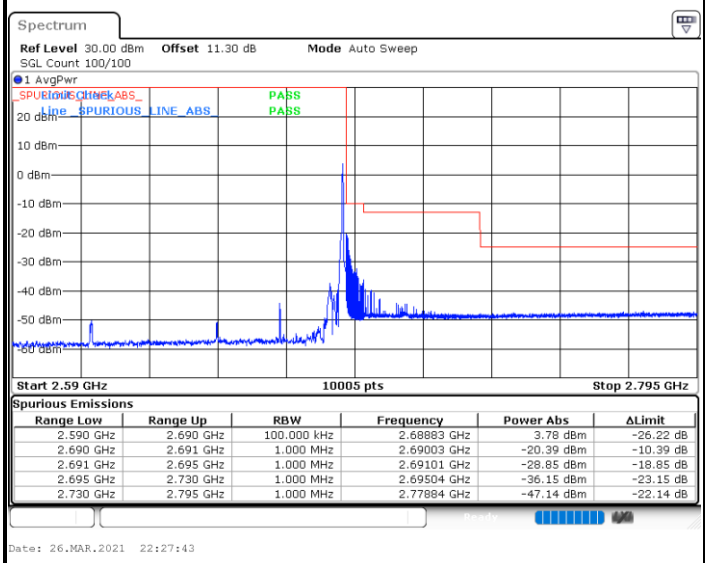
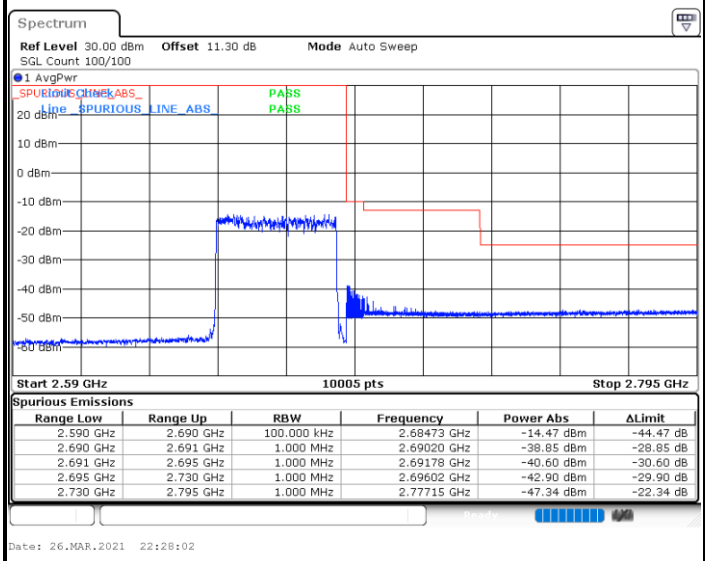
FR1 n41+41A / 10MHz / DFT-S OFDM BPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.391 GHz / 2.490 GHz / 1.000 MHz / 2.48869 GHz / -39.96 dBm / -14.96 dB 2.490 GHz / 2.495 GHz / 1.000 MHz / 2.49490 GHz / -25.48 dBm / -12.48 dB 2.495 GHz / 2.496 GHz / 100.000 kHz / 2.49594 GHz / -34.45 dBm / -21.45 dB 2.496 GHz / 2.596 GHz / 100.000 kHz / 2.49677 GHz / 3.22 dBm / -26.78 dB Date: 26.MAR.2021 22:01:23	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.391 GHz / 2.490 GHz / 1.000 MHz / 2.48878 GHz / -43.12 dBm / -18.12 dB 2.490 GHz / 2.495 GHz / 1.000 MHz / 2.49441 GHz / -33.40 dBm / -20.40 dB 2.495 GHz / 2.496 GHz / 100.000 kHz / 2.49599 GHz / -45.14 dBm / -32.14 dB 2.496 GHz / 2.596 GHz / 100.000 kHz / 2.50512 GHz / -9.48 dBm / -39.48 dB Date: 26.MAR.2021 22:00:25	/

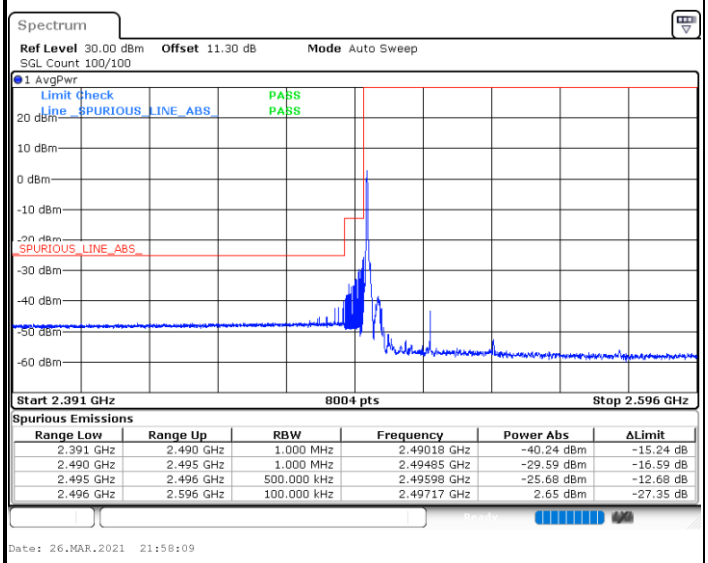
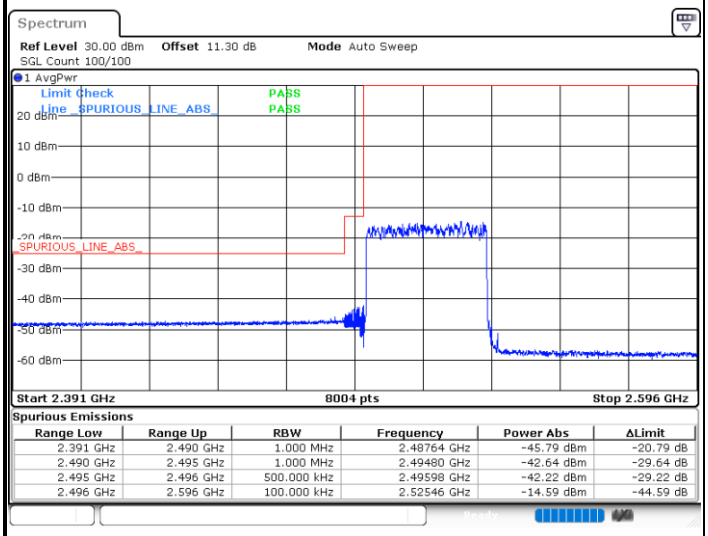
FR1 n41+41A / 10MHz / DFT-S OFDM BPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.590 GHz / 2.690 GHz / 100.000 kHz / 2.68913 GHz / 3.72 dBm / -26.28 dB 2.690 GHz / 2.691 GHz / 200.000 kHz / 2.69001 GHz / -30.95 dBm / -20.95 dB 2.691 GHz / 2.695 GHz / 1.000 MHz / 2.69101 GHz / -25.92 dBm / -15.92 dB 2.695 GHz / 2.700 GHz / 1.000 MHz / 2.69536 GHz / -33.82 dBm / -20.82 dB 2.700 GHz / 2.795 GHz / 1.000 MHz / 2.70059 GHz / -44.62 dBm / -19.62 dB Date: 26.MAR.2021 22:19:36	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.590 GHz / 2.690 GHz / 100.000 kHz / 2.68143 GHz / -8.76 dBm / -38.76 dB 2.690 GHz / 2.691 GHz / 200.000 kHz / 2.69014 GHz / -42.70 dBm / -32.70 dB 2.691 GHz / 2.695 GHz / 1.000 MHz / 2.69188 GHz / -35.42 dBm / -25.42 dB 2.695 GHz / 2.700 GHz / 1.000 MHz / 2.69540 GHz / -40.59 dBm / -27.59 dB 2.700 GHz / 2.795 GHz / 1.000 MHz / 2.78885 GHz / -47.31 dBm / -22.31 dB Date: 26.MAR.2021 22:19:11	/

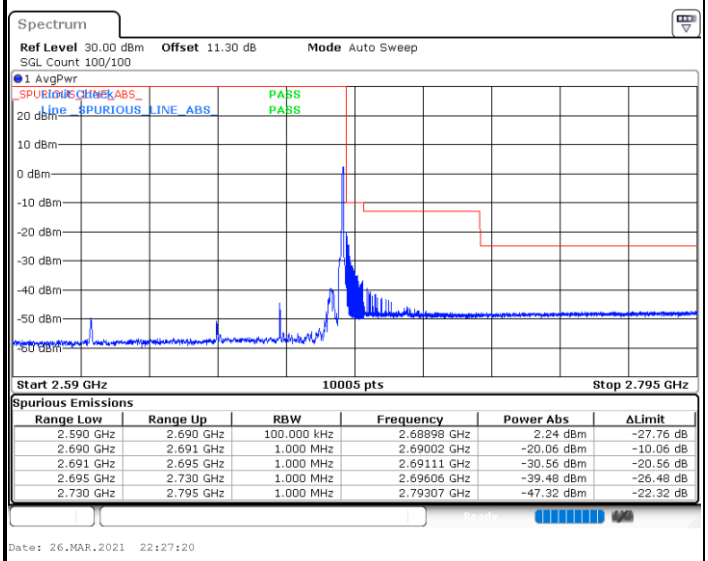
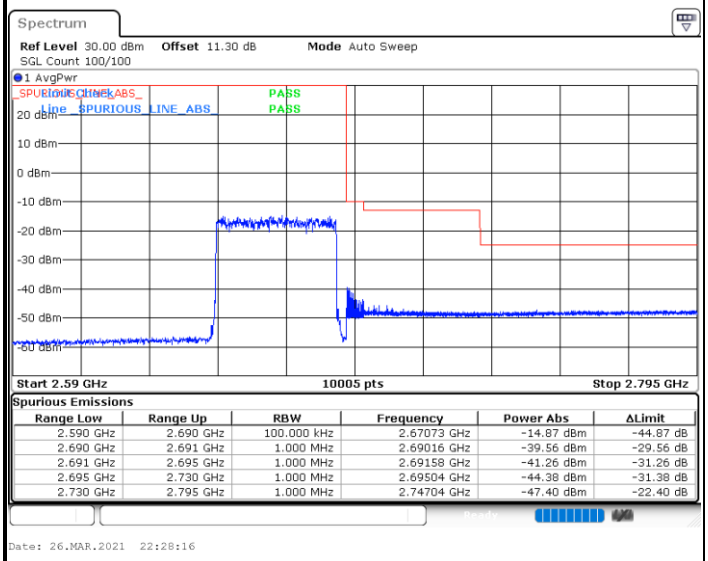
FR1 n41+41A / 10MHz / DFT-S OFDM QPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

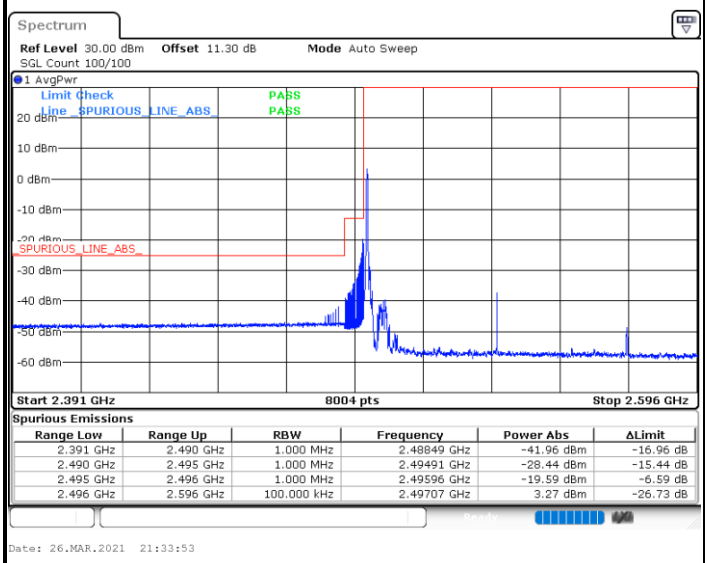
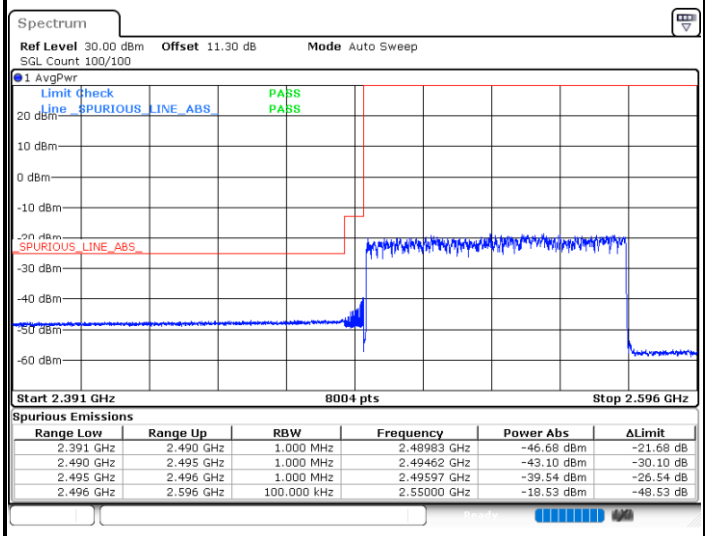
FR1 n41+41A / 10MHz / DFT-S OFDM QPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.590 GHz / 2.690 GHz / 100.000 kHz / 2.68908 GHz / 3.12 dBm / -26.88 dB 2.690 GHz / 2.691 GHz / 200.000 kHz / 2.69004 GHz / -31.98 dBm / -21.98 dB 2.691 GHz / 2.695 GHz / 1.000 MHz / 2.69132 GHz / -29.67 dBm / -19.67 dB 2.695 GHz / 2.700 GHz / 1.000 MHz / 2.69674 GHz / -38.34 dBm / -25.34 dB 2.700 GHz / 2.795 GHz / 1.000 MHz / 2.70036 GHz / -45.37 dBm / -20.37 dB Date: 26.MAR.2021 22:19:51	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.590 GHz / 2.690 GHz / 100.000 kHz / 2.68118 GHz / -9.73 dBm / -39.73 dB 2.690 GHz / 2.691 GHz / 200.000 kHz / 2.69001 GHz / -40.71 dBm / -30.71 dB 2.691 GHz / 2.695 GHz / 1.000 MHz / 2.69168 GHz / -35.45 dBm / -25.45 dB 2.695 GHz / 2.700 GHz / 1.000 MHz / 2.69546 GHz / -39.73 dBm / -26.73 dB 2.700 GHz / 2.795 GHz / 1.000 MHz / 2.79127 GHz / -47.23 dBm / -22.23 dB Date: 26.MAR.2021 22:18:03	/

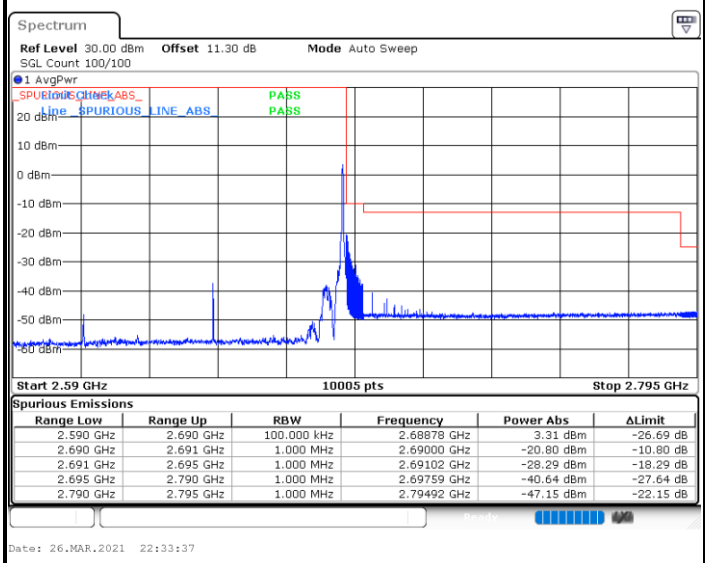
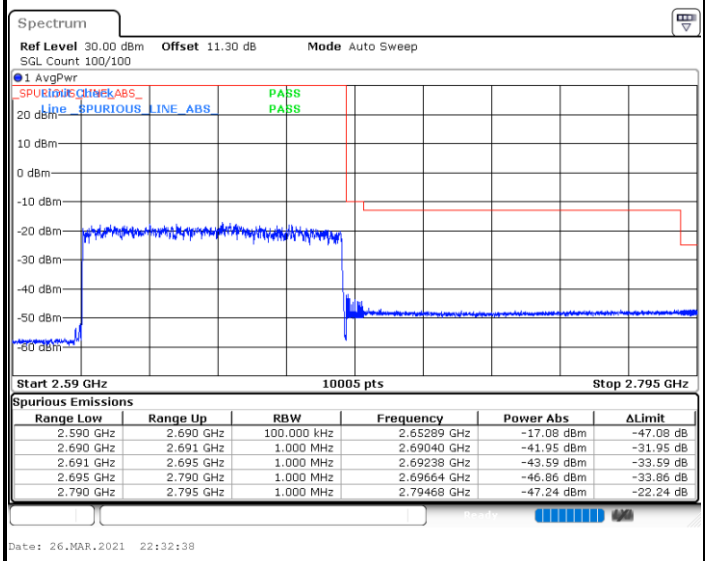
FR1 n41+41A / 40MHz / DFT-S OFDM BPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

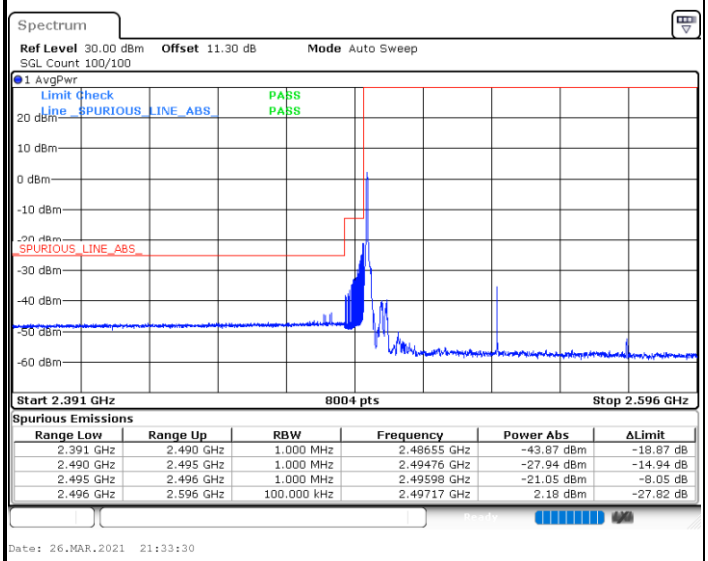
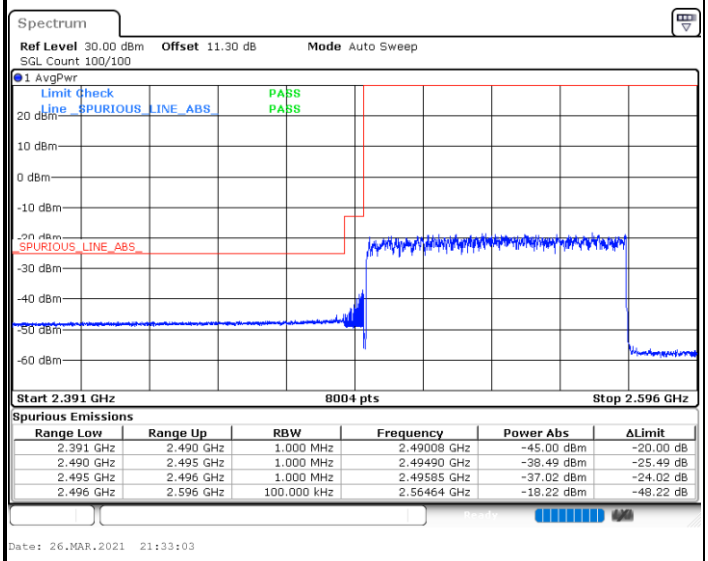
FR1 n41+41A / 40MHz / DFT-S OFDM BPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

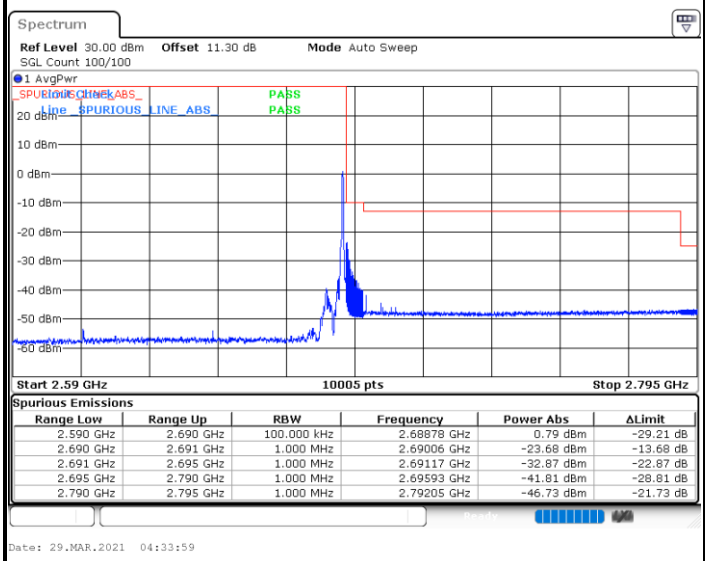
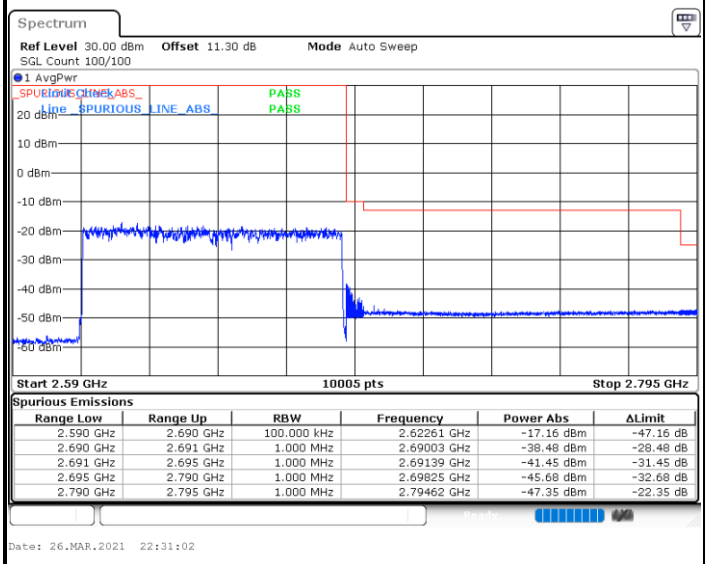
FR1 n41+41A / 40MHz / DFT-S OFDM QPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.391 GHz / 2.490 GHz / 1.000 MHz / 2.49018 GHz / -40.24 dBm / -15.24 dB 2.490 GHz / 2.495 GHz / 1.000 MHz / 2.49485 GHz / -29.59 dBm / -16.59 dB 2.495 GHz / 2.496 GHz / 500.000 kHz / 2.49598 GHz / -25.68 dBm / -12.68 dB 2.496 GHz / 2.596 GHz / 100.000 kHz / 2.49717 GHz / 2.65 dBm / -27.35 dB Date: 26.MAR.2021 21:58:09	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.391 GHz / 2.490 GHz / 1.000 MHz / 2.48764 GHz / -45.79 dBm / -20.79 dB 2.490 GHz / 2.495 GHz / 1.000 MHz / 2.49480 GHz / -42.64 dBm / -29.64 dB 2.495 GHz / 2.496 GHz / 500.000 kHz / 2.49598 GHz / -42.22 dBm / -29.22 dB 2.496 GHz / 2.596 GHz / 100.000 kHz / 2.52546 GHz / -14.59 dBm / -44.59 dB Date: 26.MAR.2021 21:55:17	/

FR1 n41+41A / 40MHz / DFT-S OFDM QPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.590 GHz / 2.690 GHz / 100.000 kHz / 2.68898 GHz / 2.24 dBm / -27.76 dB 2.690 GHz / 2.691 GHz / 1.000 MHz / 2.69002 GHz / -20.06 dBm / -10.06 dB 2.691 GHz / 2.695 GHz / 1.000 MHz / 2.69111 GHz / -30.56 dBm / -20.56 dB 2.695 GHz / 2.730 GHz / 1.000 MHz / 2.69606 GHz / -39.48 dBm / -26.48 dB 2.730 GHz / 2.795 GHz / 1.000 MHz / 2.79307 GHz / -47.32 dBm / -22.32 dB	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.590 GHz / 2.690 GHz / 100.000 kHz / 2.67073 GHz / -14.87 dBm / -44.87 dB 2.690 GHz / 2.691 GHz / 1.000 MHz / 2.69016 GHz / -39.56 dBm / -29.56 dB 2.691 GHz / 2.695 GHz / 1.000 MHz / 2.69158 GHz / -41.26 dBm / -31.26 dB 2.695 GHz / 2.730 GHz / 1.000 MHz / 2.69504 GHz / -44.38 dBm / -31.38 dB 2.730 GHz / 2.795 GHz / 1.000 MHz / 2.74704 GHz / -47.40 dBm / -22.40 dB	/

FR1 n41+41A / 80MHz / DFT-S OFDM BPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.391 GHz / 2.490 GHz / 1.000 MHz / 2.48849 GHz / -41.96 dBm / -16.96 dB 2.490 GHz / 2.495 GHz / 1.000 MHz / 2.49491 GHz / -28.44 dBm / -15.44 dB 2.495 GHz / 2.496 GHz / 1.000 MHz / 2.49596 GHz / -19.59 dBm / -6.59 dB 2.496 GHz / 2.596 GHz / 100.000 kHz / 2.49707 GHz / 3.27 dBm / -26.73 dB Date: 26.MAR.2021 21:33:53	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.391 GHz / 2.490 GHz / 1.000 MHz / 2.48983 GHz / -46.68 dBm / -21.68 dB 2.490 GHz / 2.495 GHz / 1.000 MHz / 2.49462 GHz / -43.10 dBm / -30.10 dB 2.495 GHz / 2.496 GHz / 1.000 MHz / 2.49597 GHz / -39.54 dBm / -26.54 dB 2.496 GHz / 2.596 GHz / 100.000 kHz / 2.55000 GHz / -18.53 dBm / -48.53 dB Date: 26.MAR.2021 21:30:04	/

FR1 n41+41A / 80MHz / DFT-S OFDM BPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

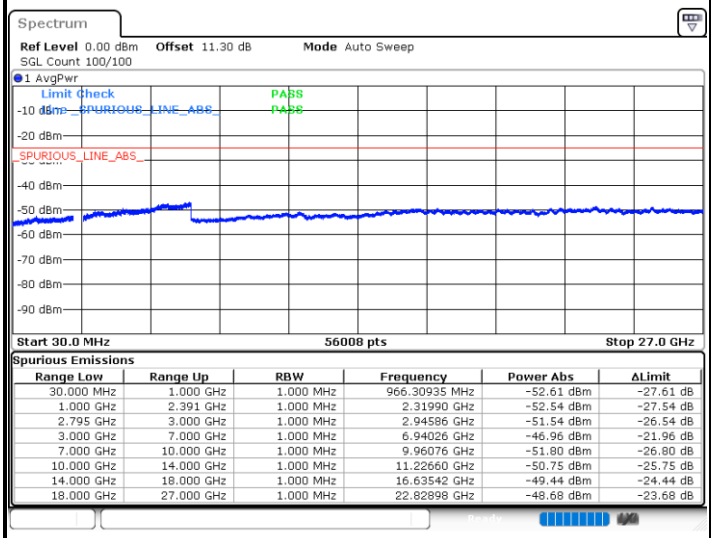
FR1 n41+41A / 80MHz / DFT-S OFDM QPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 n41+41A / 80MHz / DFT-S OFDM QPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.590 GHz / 2.690 GHz / 100.000 kHz / 2.68878 GHz / 0.79 dBm / -29.21 dB 2.690 GHz / 2.691 GHz / 1.000 MHz / 2.69006 GHz / -23.68 dBm / -13.68 dB 2.691 GHz / 2.695 GHz / 1.000 MHz / 2.69117 GHz / -32.87 dBm / -22.87 dB 2.695 GHz / 2.790 GHz / 1.000 MHz / 2.69593 GHz / -41.81 dBm / -28.81 dB 2.790 GHz / 2.795 GHz / 1.000 MHz / 2.79205 GHz / -46.73 dBm / -21.73 dB Date: 29.MAR.2021 04:33:59	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.590 GHz / 2.690 GHz / 100.000 kHz / 2.62261 GHz / -17.16 dBm / -47.16 dB 2.690 GHz / 2.691 GHz / 1.000 MHz / 2.69003 GHz / -38.48 dBm / -28.48 dB 2.691 GHz / 2.695 GHz / 1.000 MHz / 2.69139 GHz / -41.45 dBm / -31.45 dB 2.695 GHz / 2.790 GHz / 1.000 MHz / 2.69825 GHz / -45.68 dBm / -32.68 dB 2.790 GHz / 2.795 GHz / 1.000 MHz / 2.79462 GHz / -47.35 dBm / -22.35 dB Date: 26.MAR.2021 22:31:02	/

Conducted Spurious Emission

FR1 n41+41A / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



Spurious Emissions

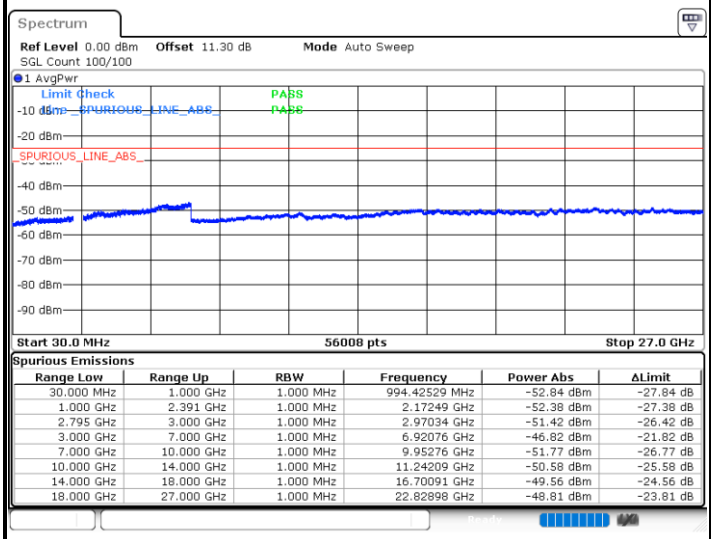
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	966.30935 MHz	-52.61 dBm	-27.61 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.31990 GHz	-52.54 dBm	-27.54 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.94586 GHz	-51.54 dBm	-26.54 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94026 GHz	-46.96 dBm	-21.96 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.96076 GHz	-51.80 dBm	-26.80 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.22660 GHz	-50.75 dBm	-25.75 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.63542 GHz	-49.44 dBm	-24.44 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.82898 GHz	-48.68 dBm	-23.68 dB

Date: 26.MAR.2021 22:02:25

Middle Channel / 1RB

/

Highest Channel / 1RB



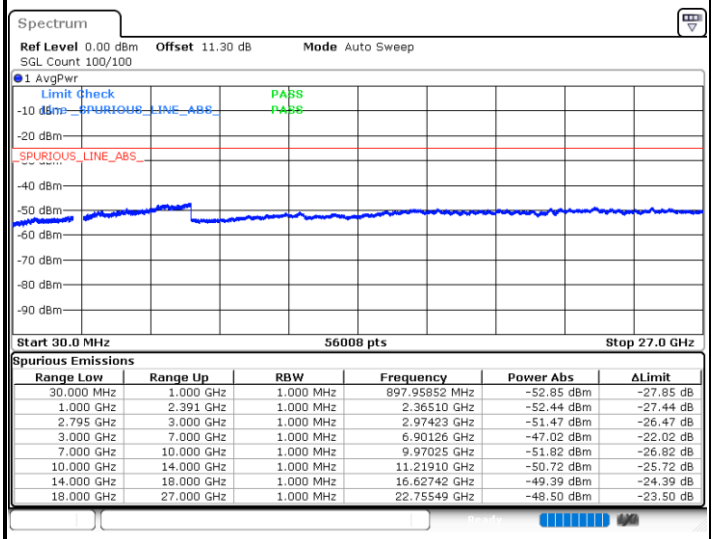
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	994.42529 MHz	-52.84 dBm	-27.84 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.17249 GHz	-52.38 dBm	-27.38 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.97034 GHz	-51.42 dBm	-26.42 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92076 GHz	-46.82 dBm	-21.82 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.95276 GHz	-51.77 dBm	-26.77 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.24209 GHz	-50.58 dBm	-25.58 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.70091 GHz	-49.56 dBm	-24.56 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.82898 GHz	-48.81 dBm	-23.81 dB

Date: 26.MAR.2021 22:22:07

FR1 n41+41A / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	897.95852 MHz	-52.85 dBm	-27.85 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.36510 GHz	-52.44 dBm	-27.44 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.97423 GHz	-51.47 dBm	-26.47 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90126 GHz	-47.02 dBm	-22.02 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.97025 GHz	-51.82 dBm	-26.82 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.21910 GHz	-50.72 dBm	-25.72 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.62742 GHz	-49.39 dBm	-24.39 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.75549 GHz	-48.50 dBm	-23.50 dB

Date: 26.MAR.2021 22:03:20

Middle Channel / 1RB

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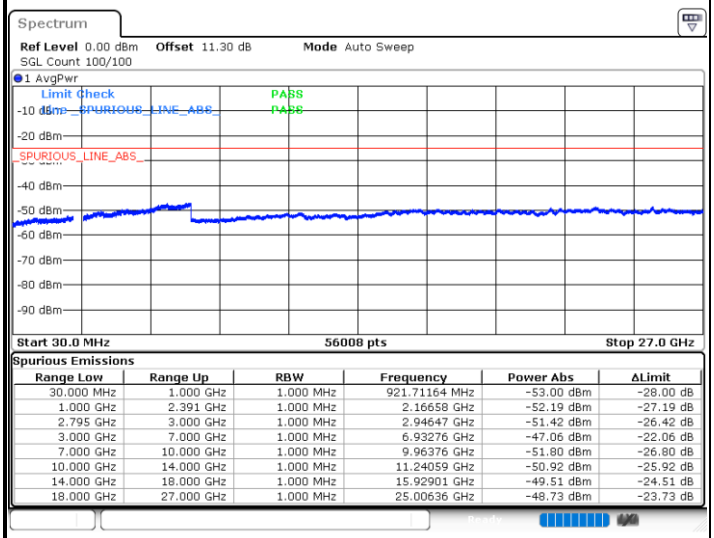
Highest Channel / 1RB



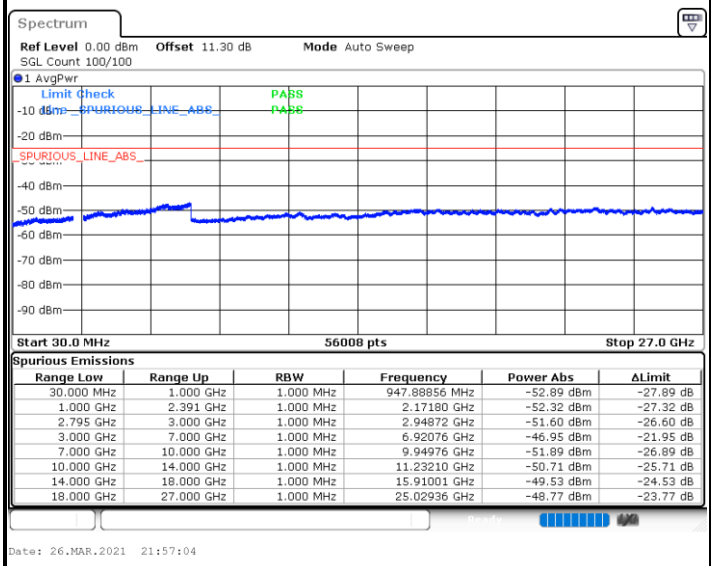
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	921.71164 MHz	-53.00 dBm	-28.00 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.16658 GHz	-52.19 dBm	-27.19 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.94647 GHz	-51.42 dBm	-26.42 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93276 GHz	-47.06 dBm	-22.06 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.96376 GHz	-51.80 dBm	-26.80 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.24059 GHz	-50.92 dBm	-25.92 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.92901 GHz	-49.51 dBm	-24.51 dB
18.000 GHz	27.000 GHz	1.000 MHz	25.00636 GHz	-48.73 dBm	-23.73 dB

Date: 26.MAR.2021 22:20:54

FR1 n41+41A / 40MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	947.88856 MHz	-52.89 dBm	-27.89 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.17180 GHz	-52.32 dBm	-27.32 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.94872 GHz	-51.60 dBm	-26.60 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92076 GHz	-46.95 dBm	-21.95 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.94976 GHz	-51.89 dBm	-26.89 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.23210 GHz	-50.71 dBm	-25.71 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.91001 GHz	-49.53 dBm	-24.53 dB
18.000 GHz	27.000 GHz	1.000 MHz	25.02936 GHz	-48.77 dBm	-23.77 dB

Date: 26.MAR.2021 21:57:04

Middle Channel / 1RB

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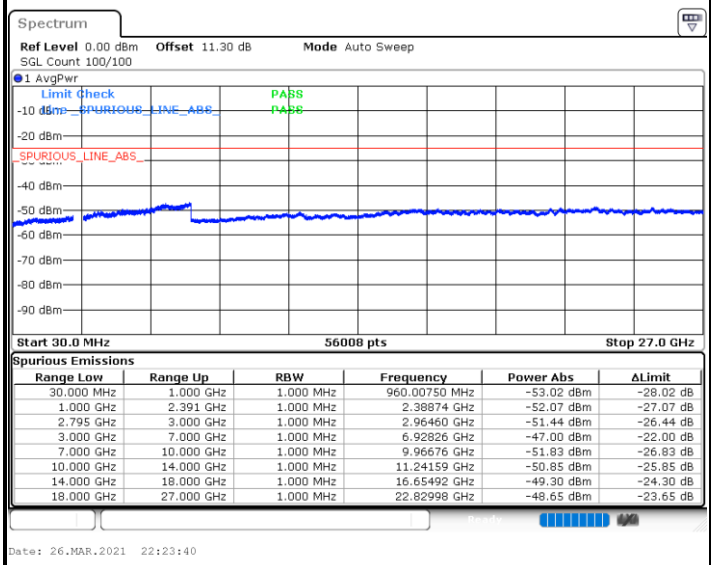
Highest Channel / 1RB



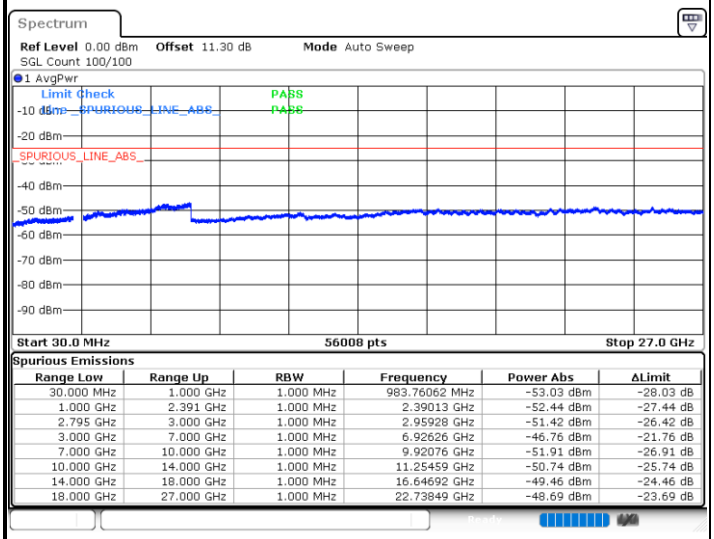
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	960.00750 MHz	-53.02 dBm	-28.02 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.38874 GHz	-52.07 dBm	-27.07 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.96460 GHz	-51.44 dBm	-26.44 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92826 GHz	-47.00 dBm	-22.00 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.96676 GHz	-51.83 dBm	-26.83 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.24159 GHz	-50.85 dBm	-25.85 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.65492 GHz	-49.30 dBm	-24.30 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.82998 GHz	-48.65 dBm	-23.65 dB

Date: 26.MAR.2021 22:23:40

FR1 n41+41A / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	983.76062 MHz	-53.03 dBm	-28.03 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.39013 GHz	-52.44 dBm	-27.44 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.95928 GHz	-51.42 dBm	-26.42 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92626 GHz	-46.76 dBm	-21.76 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.92076 GHz	-51.91 dBm	-26.91 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.25459 GHz	-50.74 dBm	-25.74 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.64692 GHz	-49.46 dBm	-24.46 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.73849 GHz	-48.69 dBm	-23.69 dB

Date: 26.MAR.2021 21:56:11

Middle Channel / 1RB

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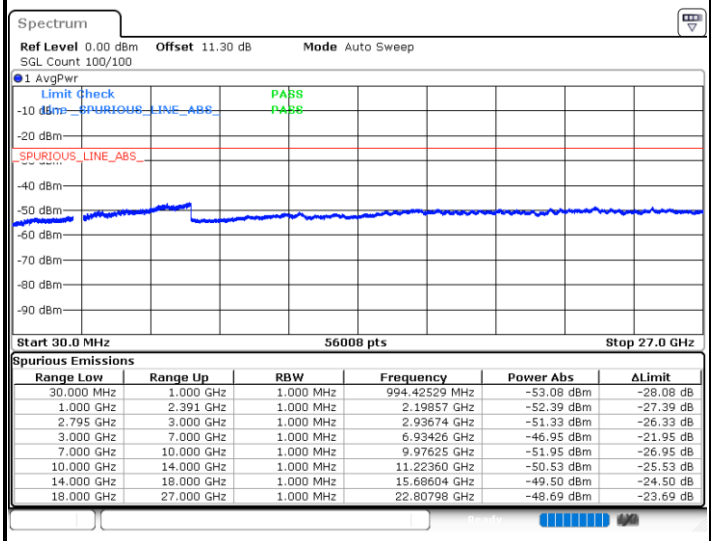
Highest Channel / 1RB



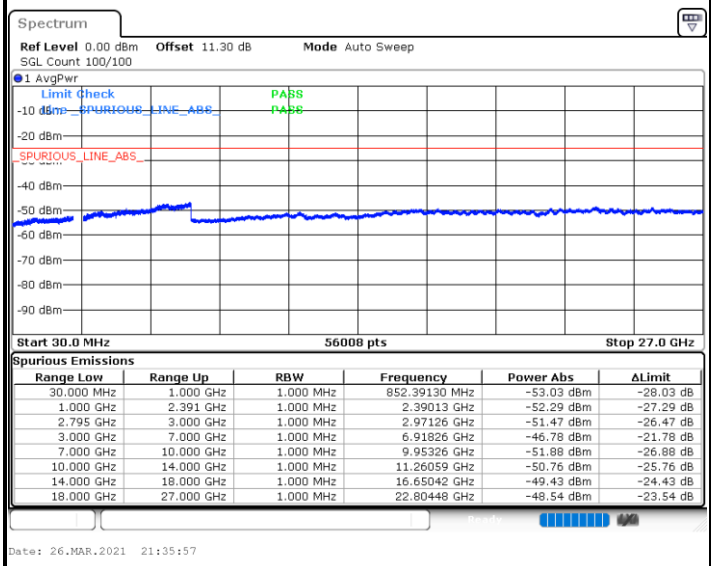
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	994.42529 MHz	-53.08 dBm	-28.08 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.19857 GHz	-52.39 dBm	-27.39 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.93674 GHz	-51.33 dBm	-26.33 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93426 GHz	-46.95 dBm	-21.95 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.97625 GHz	-51.95 dBm	-26.95 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.22360 GHz	-50.53 dBm	-25.53 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.68604 GHz	-49.50 dBm	-24.50 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.80798 GHz	-48.69 dBm	-23.69 dB

Date: 26.MAR.2021 22:26:42

FR1 n41+41A / 80MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



Spurious Emissions

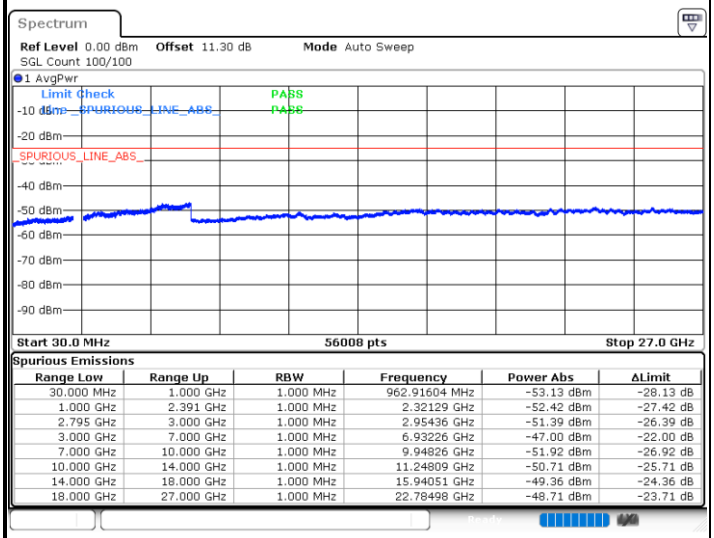
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	852.39130 MHz	-53.03 dBm	-28.03 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.39013 GHz	-52.29 dBm	-27.29 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.97126 GHz	-51.47 dBm	-26.47 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91826 GHz	-46.78 dBm	-21.78 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.95326 GHz	-51.88 dBm	-26.88 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.26059 GHz	-50.76 dBm	-25.76 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.65042 GHz	-49.43 dBm	-24.43 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.80448 GHz	-48.54 dBm	-23.54 dB

Date: 26.MAR.2021 21:35:57

Middle Channel / 1RB

/

Highest Channel / 1RB



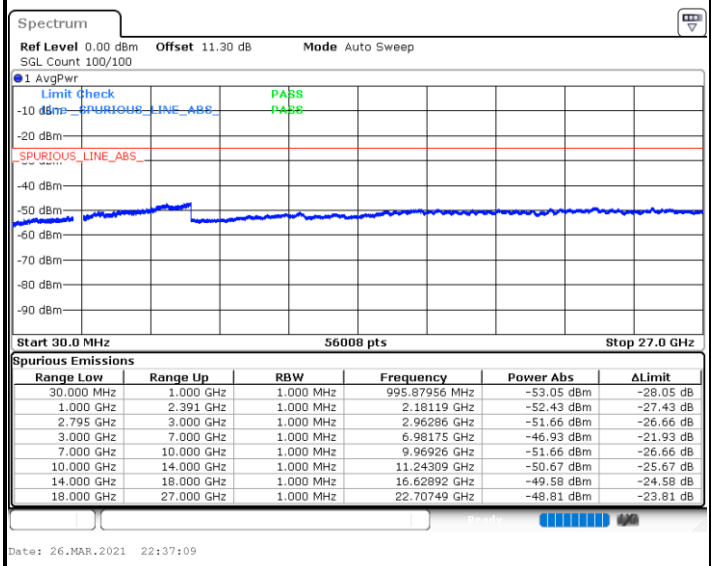
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	962.91604 MHz	-53.13 dBm	-28.13 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.32129 GHz	-52.42 dBm	-27.42 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.95436 GHz	-51.39 dBm	-26.39 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93226 GHz	-47.00 dBm	-22.00 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.94826 GHz	-51.92 dBm	-26.92 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.24809 GHz	-50.71 dBm	-25.71 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.94051 GHz	-49.36 dBm	-24.36 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.78498 GHz	-48.71 dBm	-23.71 dB

Date: 26.MAR.2021 22:34:52

FR1 n41+41A / 80MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	995.87956 MHz	-53.05 dBm	-28.05 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.18119 GHz	-52.43 dBm	-27.43 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.96286 GHz	-51.66 dBm	-26.66 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98175 GHz	-46.93 dBm	-21.93 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.96926 GHz	-51.66 dBm	-26.66 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.24309 GHz	-50.67 dBm	-25.67 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.62892 GHz	-49.58 dBm	-24.58 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.70749 GHz	-48.81 dBm	-23.81 dB

Date: 26.MAR.2021 22:37:09

Middle Channel / 1RB

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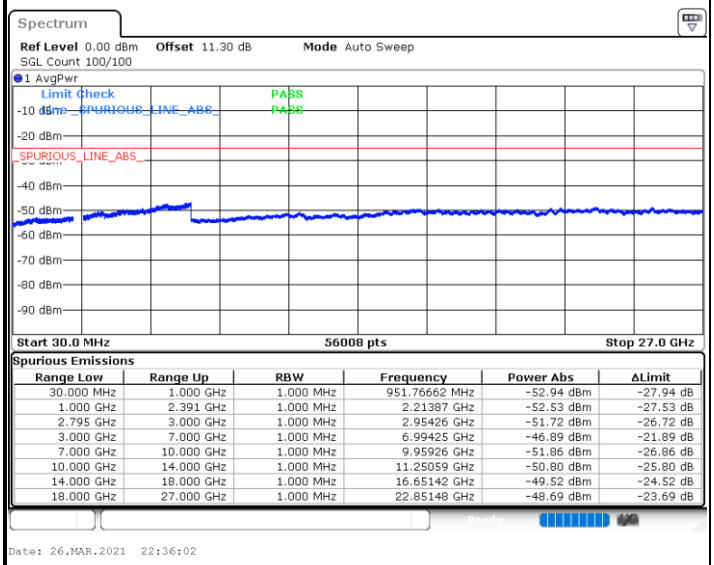
Highest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	951.76662 MHz	-52.94 dBm	-27.94 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.21387 GHz	-52.53 dBm	-27.53 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.95426 GHz	-51.72 dBm	-26.72 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99425 GHz	-46.89 dBm	-21.89 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.95926 GHz	-51.86 dBm	-26.86 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.25059 GHz	-50.80 dBm	-25.80 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.65142 GHz	-49.52 dBm	-24.52 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.85148 GHz	-48.69 dBm	-23.69 dB

Date: 26.MAR.2021 22:36:02

Frequency Stability

Test Conditions		NR n41+41A (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0006	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0014	

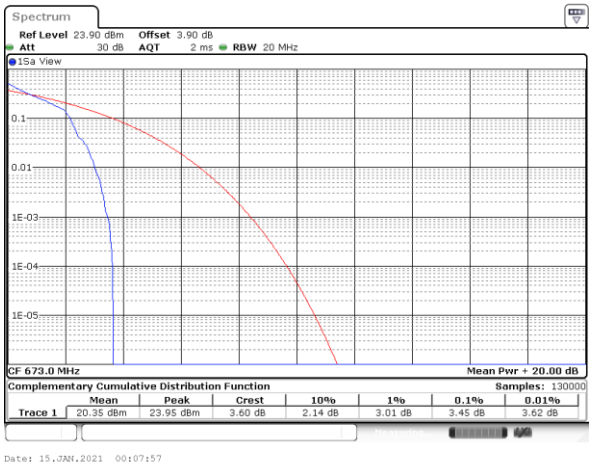
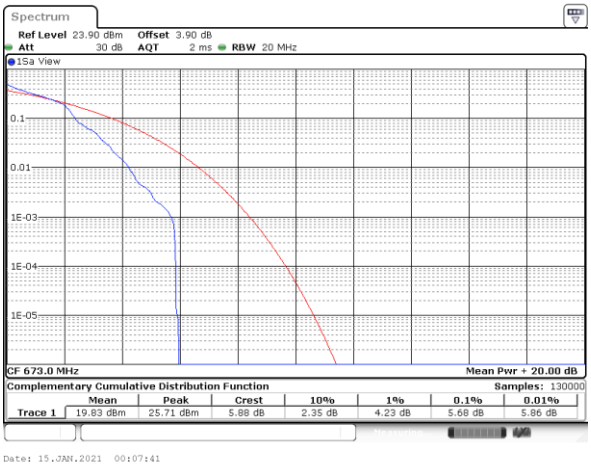
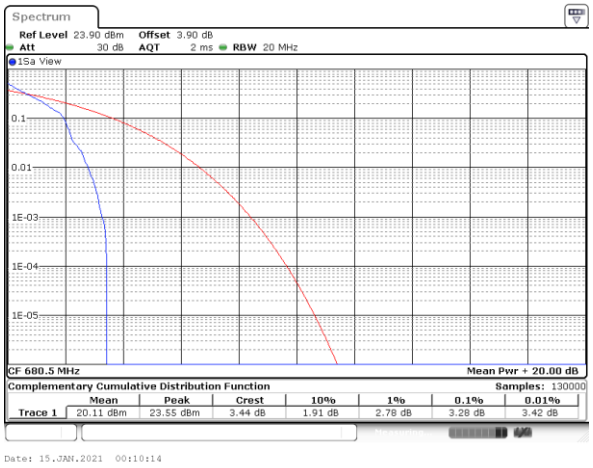
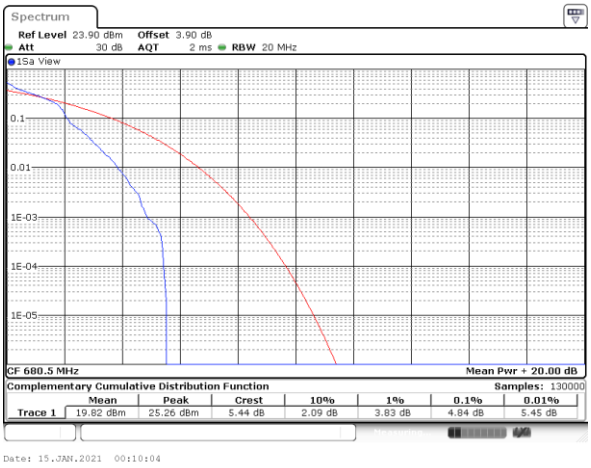
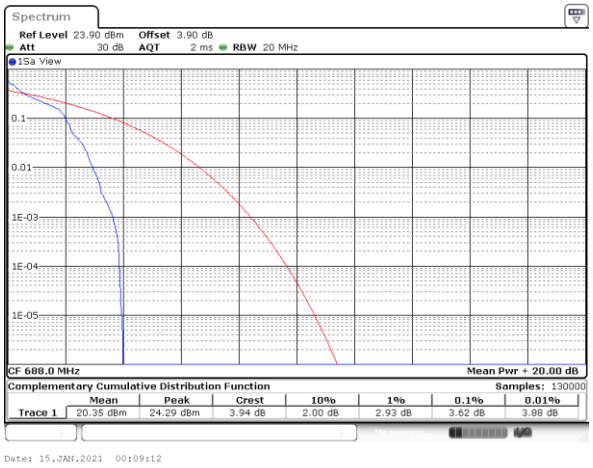
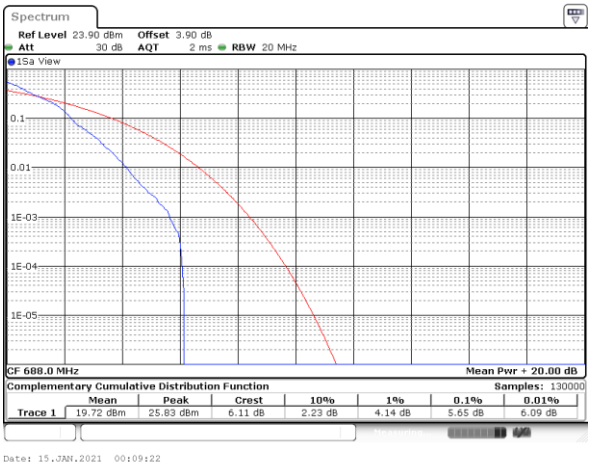
Note:

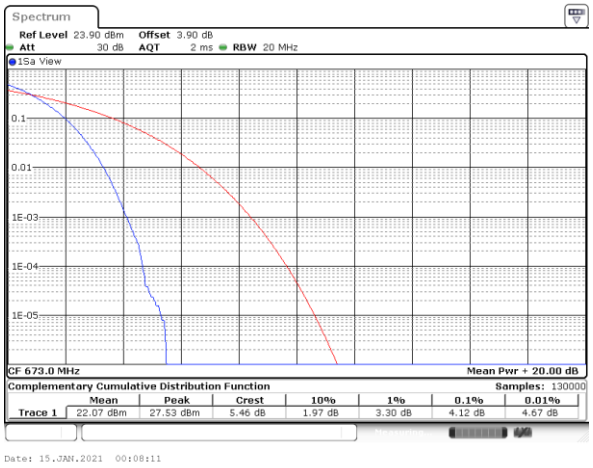
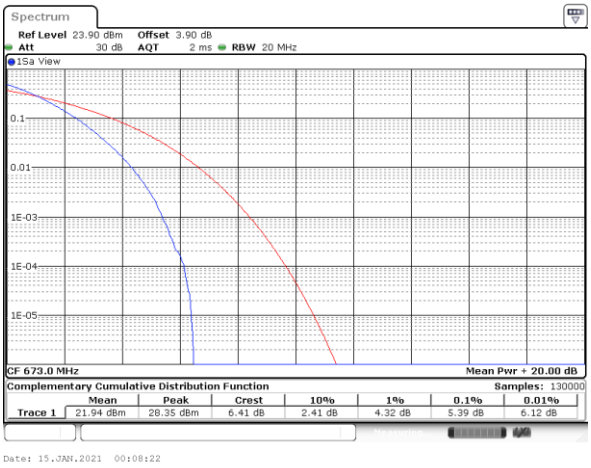
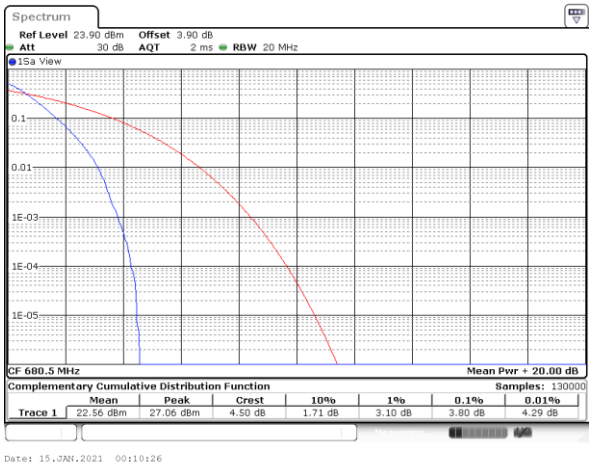
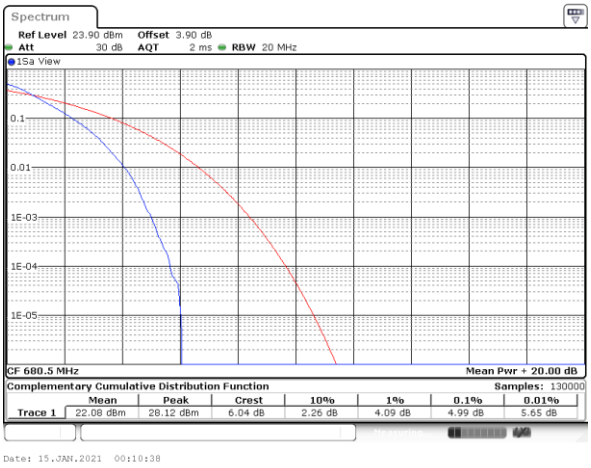
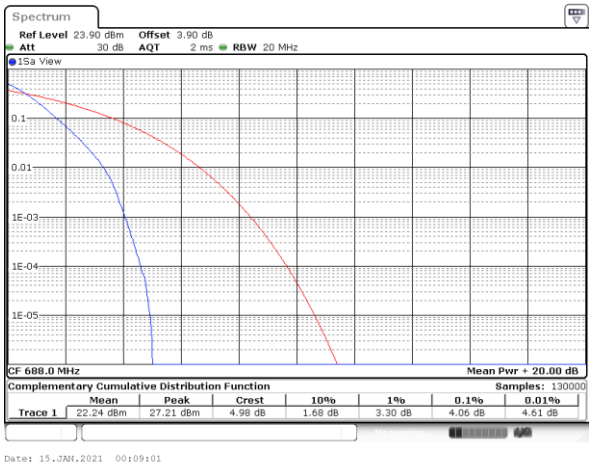
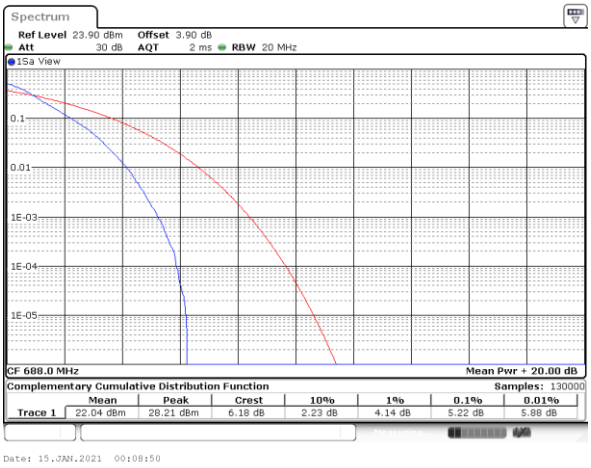
1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.14 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

5G NR n71 SA

Peak-to-Average Ratio

Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.45	4.12	5.68	5.39	PASS
Middle CH	3.28	3.80	4.84	4.99	
Highest CH	3.62	4.06	5.65	5.22	

FR1 n71 / 20MHz / DFT-S OFDM	
PI/2 BPSK	**QPSK**
Lowest Channel / 1RB	**Lowest Channel / 1RB**
	
Middle Channel / 1 RB	**Middle Channel / 1 RB**
	
Highest Channel / 1 RB	**Highest Channel / 1 RB**
	

FR1 n71 / 20MHz / DFT-S OFDM	
PI/2 BPSK	**QPSK**
Lowest Channel / Full RB	**Lowest Channel / Full RB**
	
Middle Channel / Full RB	**Middle Channel / Full RB**
	
Highest Channel / Full RB	**Highest Channel / Full RB**
	

26dB Bandwidth

Mode	FR1 n71 : 26dB BW(MHz) / CP-OFDM							
BW	5MHz	5MHz	5MHz	5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	4.88	4.87	4.87	4.92				

Mode	FR1 n71 : 26dB BW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.83	9.77	9.95	9.87				

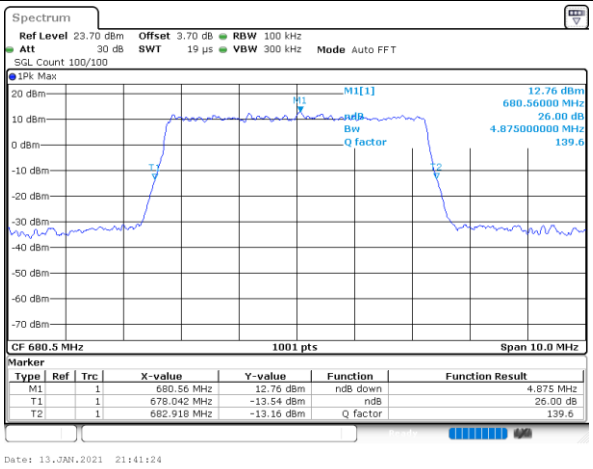
Mode	FR1 n71 : 26dB BW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.87	14.89	14.87	15.07				

Mode	FR1 n71 : 26dB BW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	19.82	19.90	19.94	19.86				

FR1 n71 / 5MHz / CP-OFDM

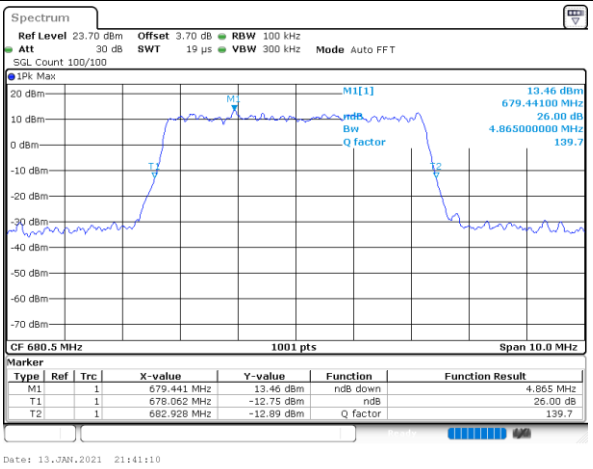
QPSK

Middle Channel



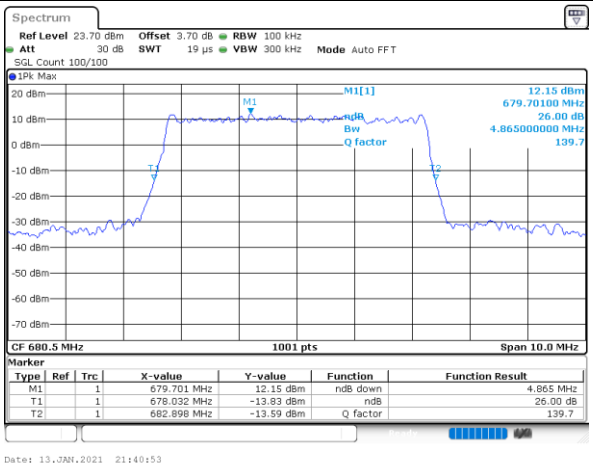
16QAM

Middle Channel



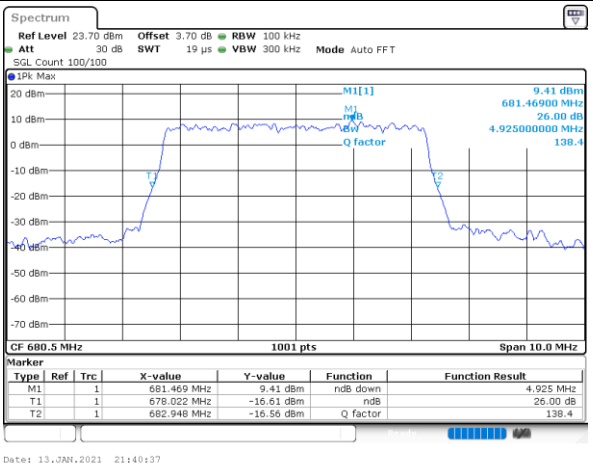
64QAM

Middle Channel



256QAM

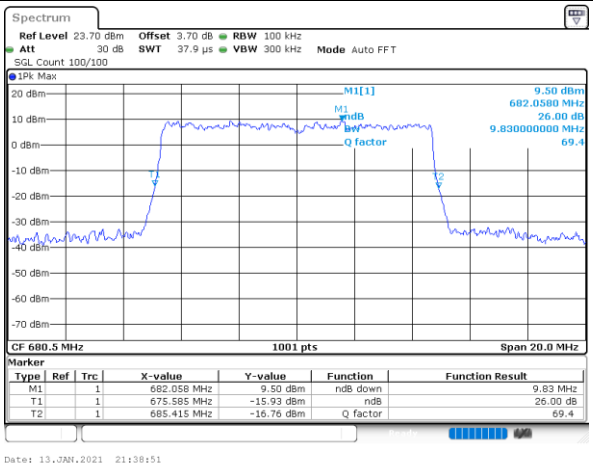
Middle Channel



FR1 n71 / 10MHz / CP-OFDM

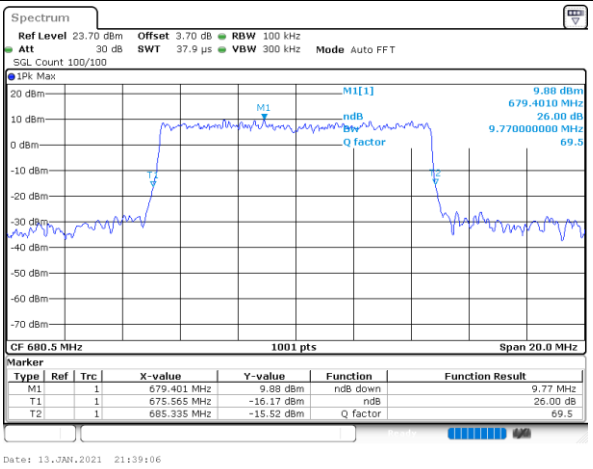
QPSK

Middle Channel



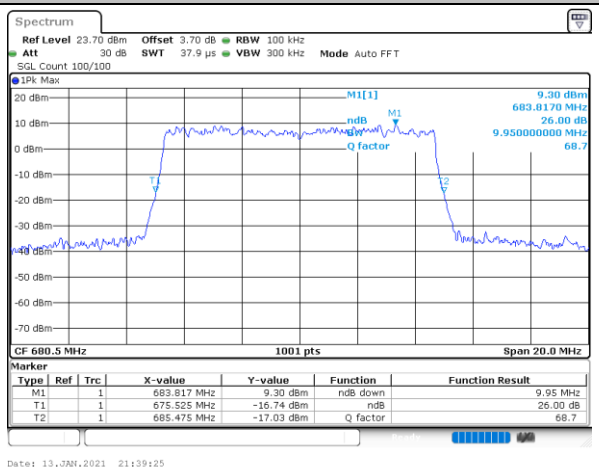
16QAM

Middle Channel



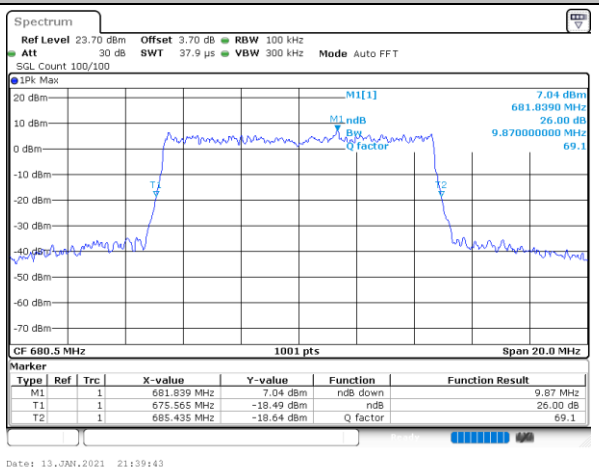
64QAM

Middle Channel



256QAM

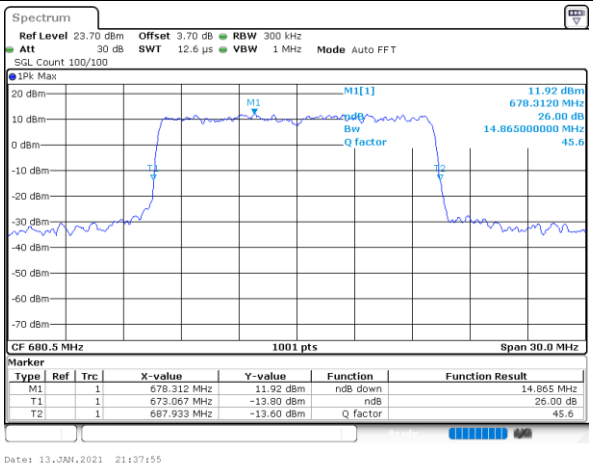
Middle Channel



FR1 n71 / 15MHz / CP-OFDM

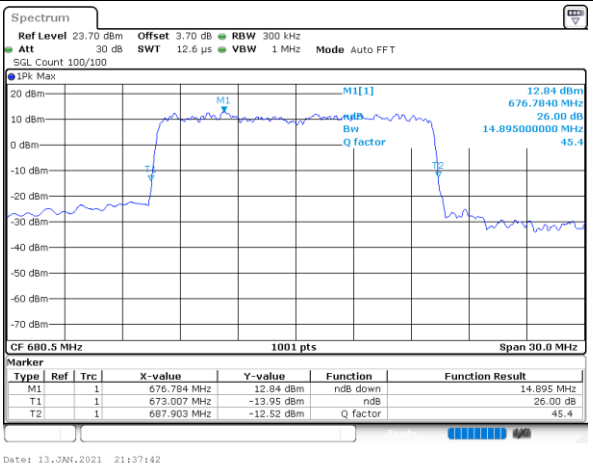
QPSK

Middle Channel



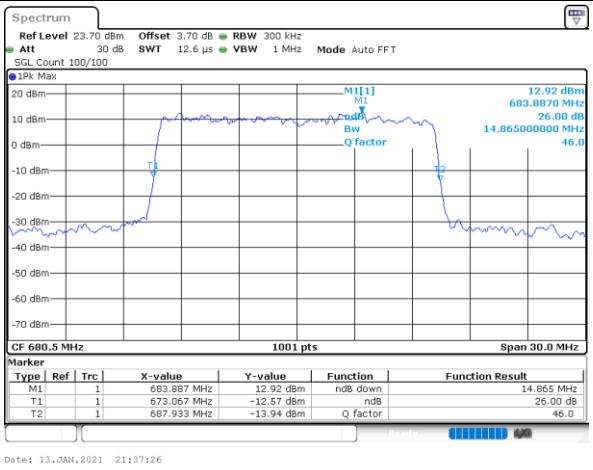
16QAM

Middle Channel



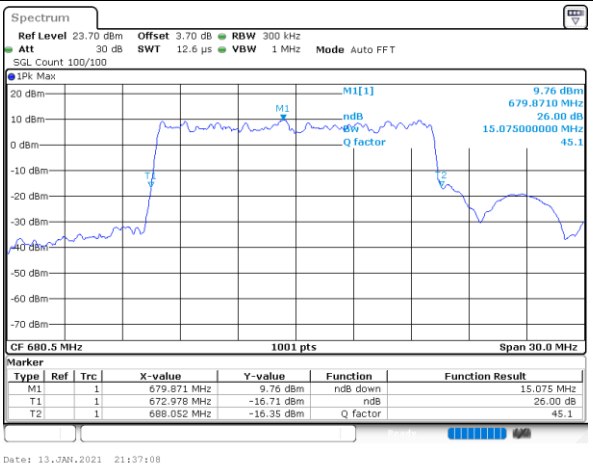
64QAM

Middle Channel



256QAM

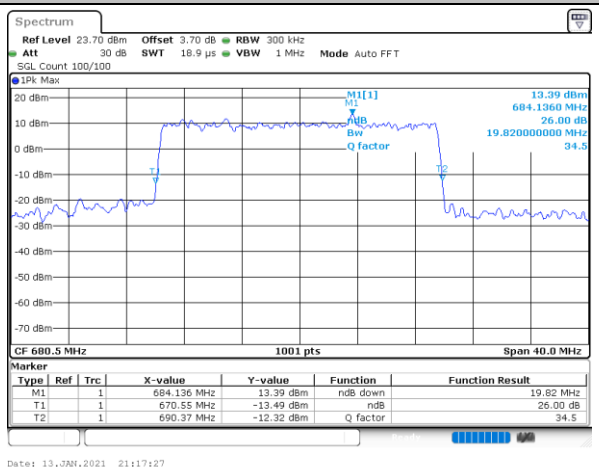
Middle Channel



FR1 n71 / 20MHz / CP-OFDM

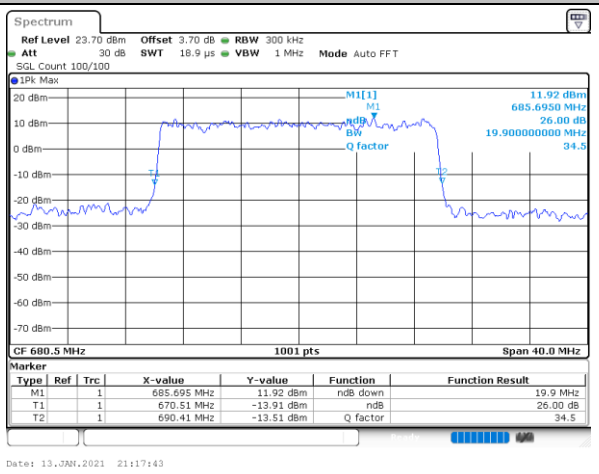
QPSK

Middle Channel



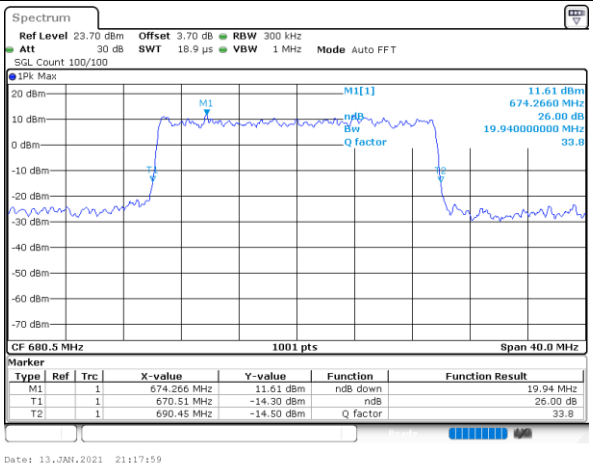
16QAM

Middle Channel



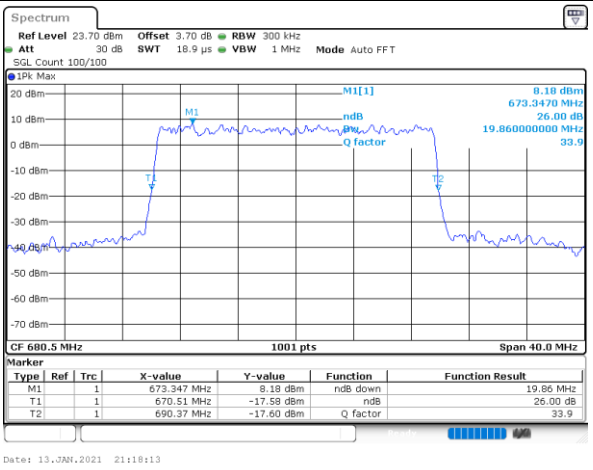
64QAM

Middle Channel



256QAM

Middle Channel



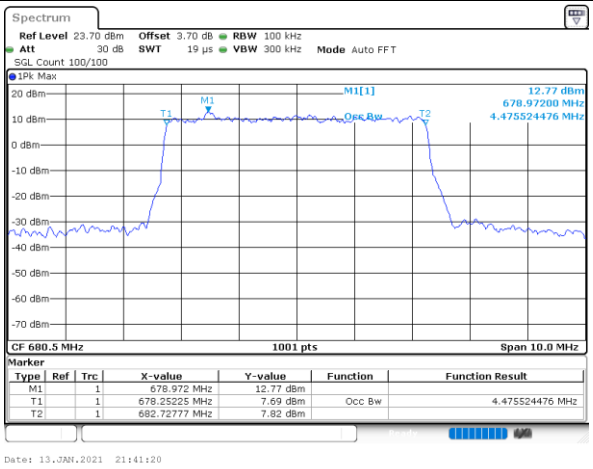
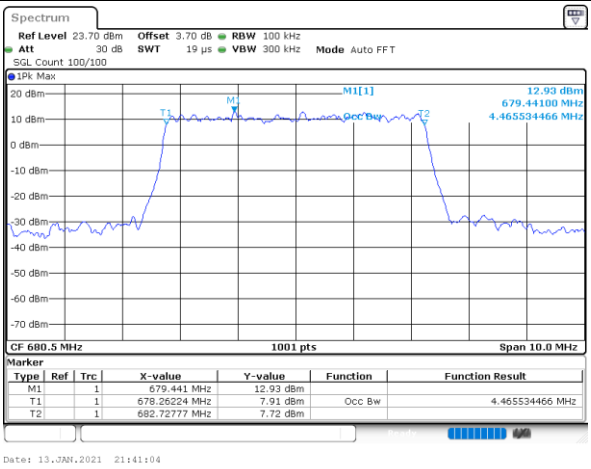
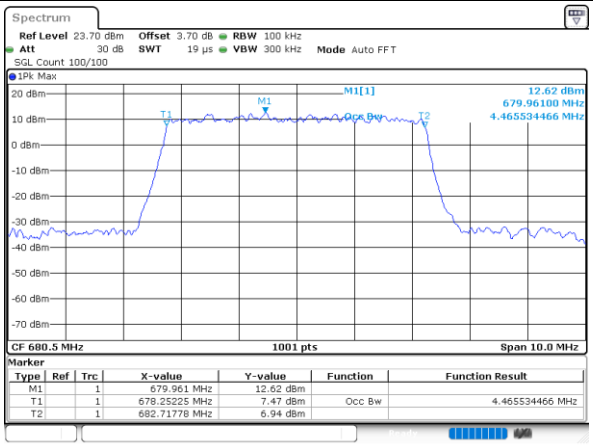
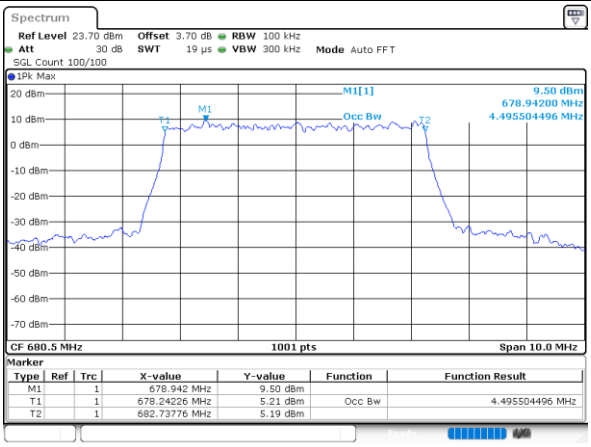
Occupied Bandwidth

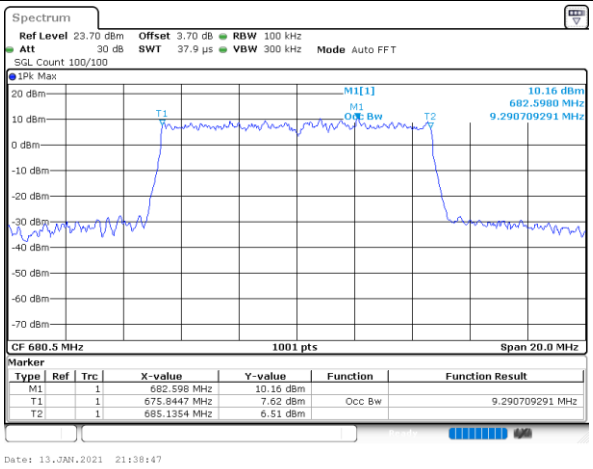
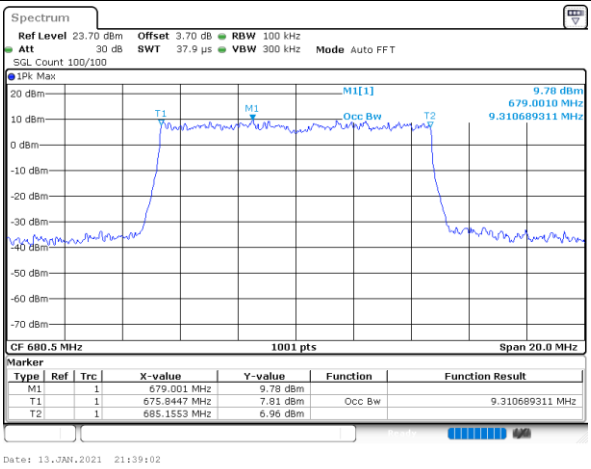
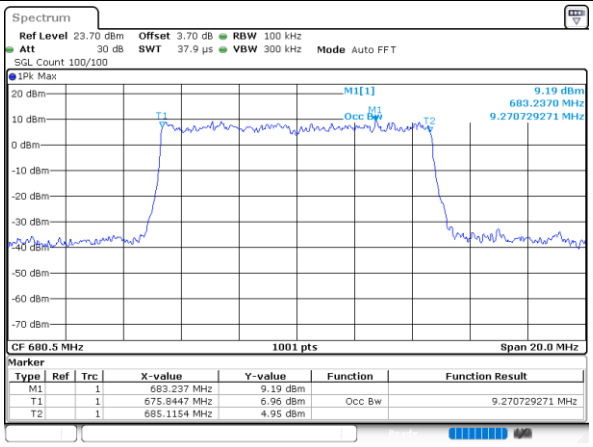
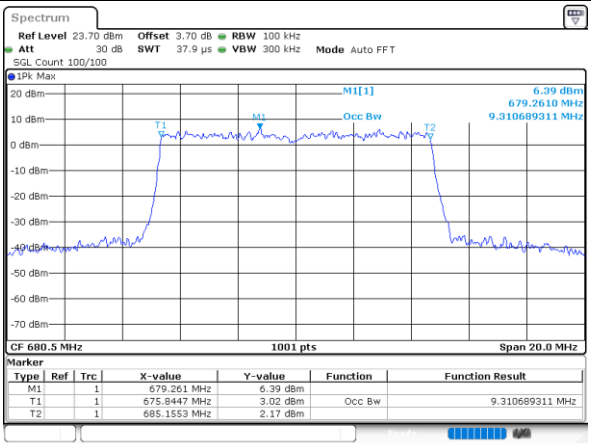
Mode	FR1 n71 : OBW(MHz) / CP-OFDM							
BW	5MHz	5MHz	5MHz	5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	4.48	4.47	4.47	4.50				

Mode	FR1 n71 : OBW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.29	9.31	9.27	9.31				

Mode	FR1 n71 : OBW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.18	14.15	14.09	14.21				

Mode	FR1 n71 : OBW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	18.98	18.98	18.98	18.94				

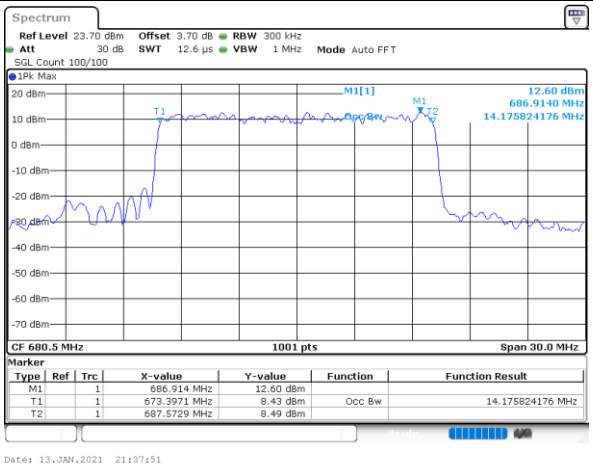
FR1 n71 / 5MHz / CP-OFDM	
QPSK	**16QAM**
Middle Channel	**Middle Channel**
	
64QAM	**256QAM**
Middle Channel	**Middle Channel**
	

FR1 n71 / 10MHz / CP-OFDM	
QPSK	**16QAM**
Middle Channel	**Middle Channel**
	
64QAM	**256QAM**
Middle Channel	**Middle Channel**
	

FR1 n71 / 15MHz / CP-OFDM

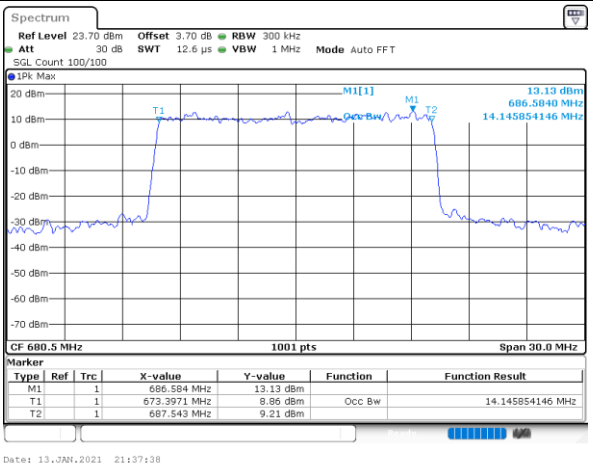
QPSK

Middle Channel



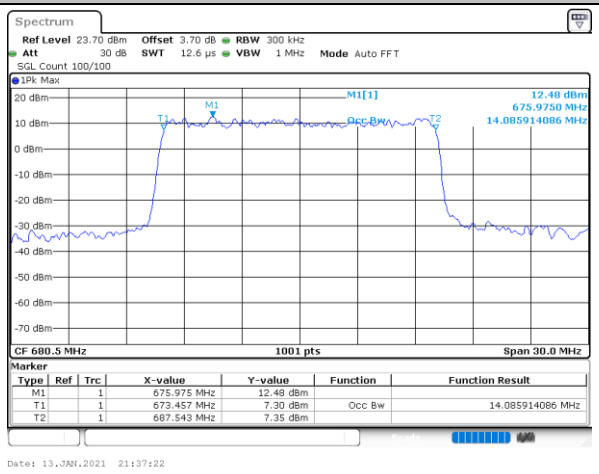
16QAM

Middle Channel



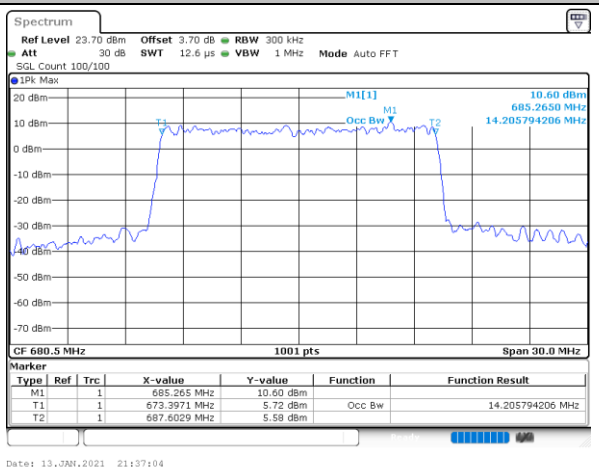
64QAM

Middle Channel



256QAM

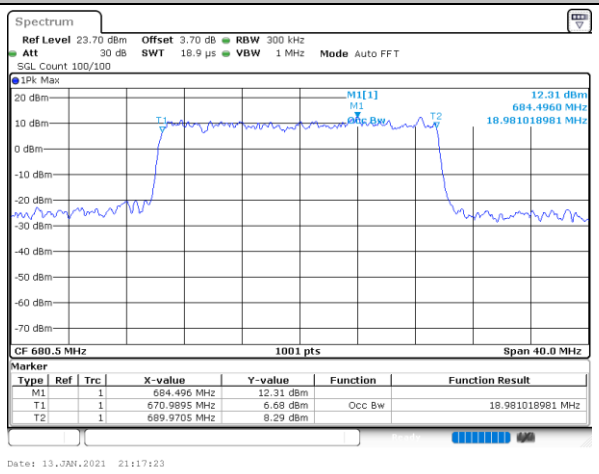
Middle Channel



FR1 n71 / 20MHz / CP-OFDM

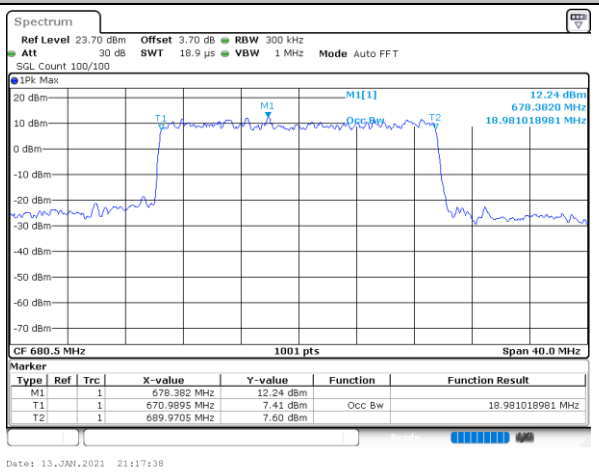
QPSK

Middle Channel



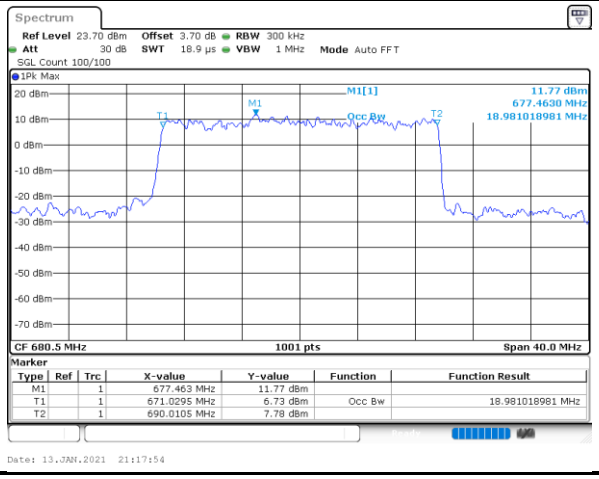
16QAM

Middle Channel



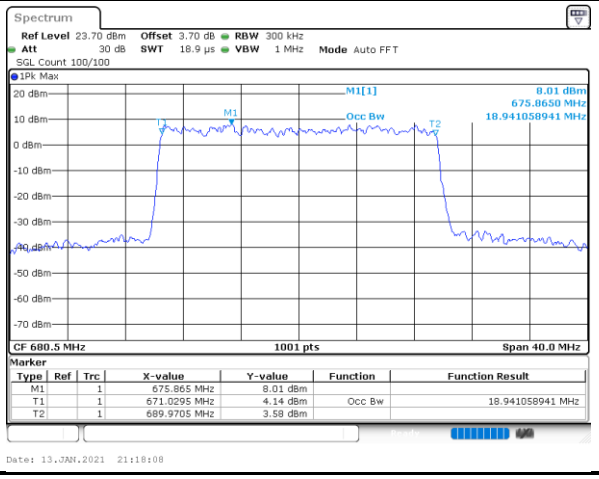
64QAM

Middle Channel

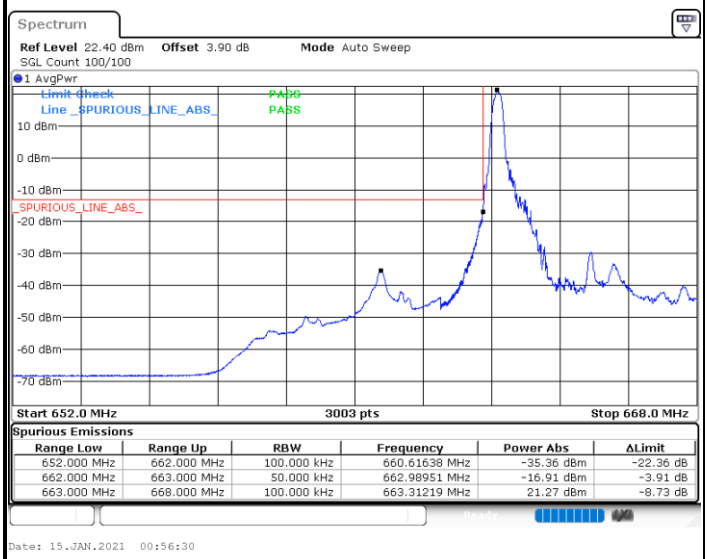
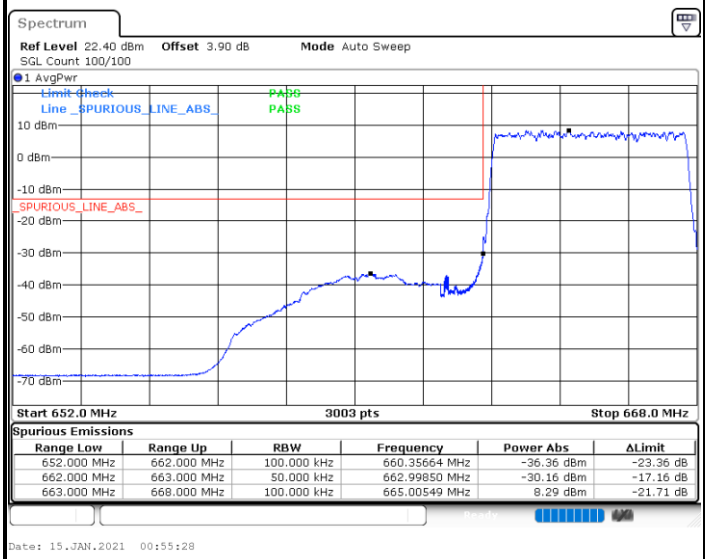


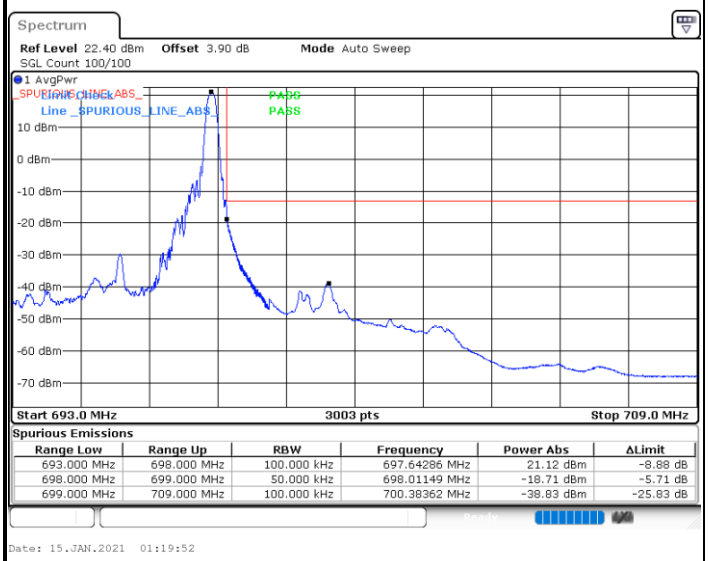
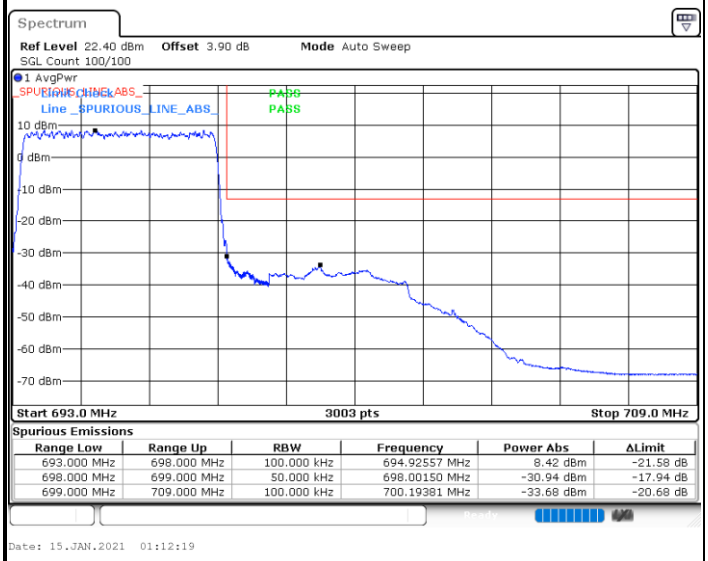
256QAM

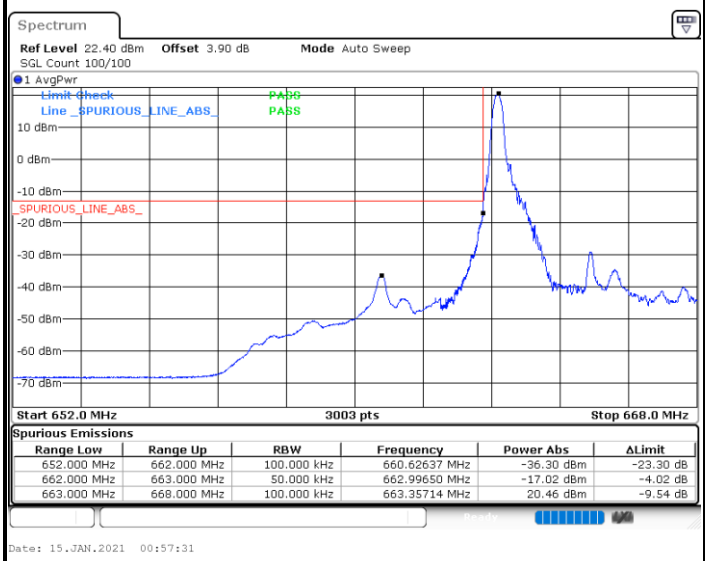
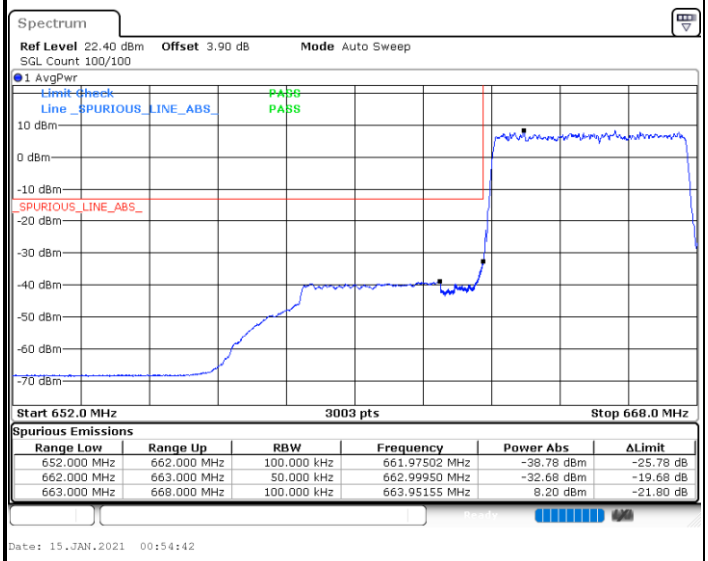
Middle Channel

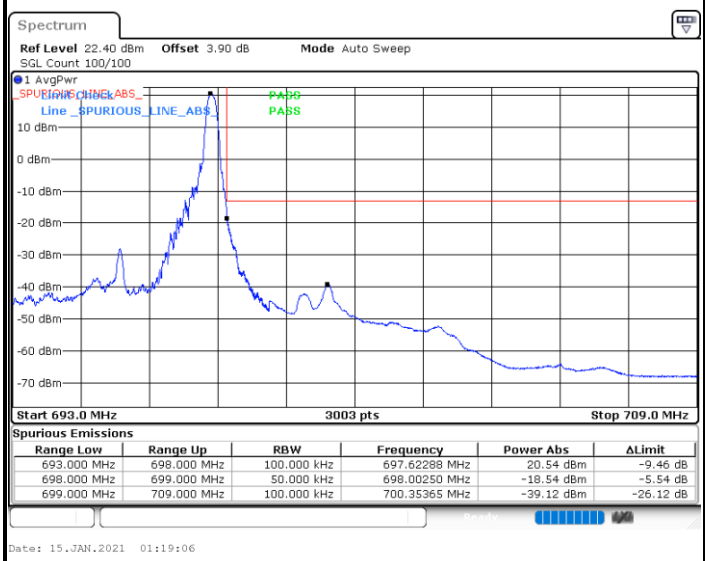
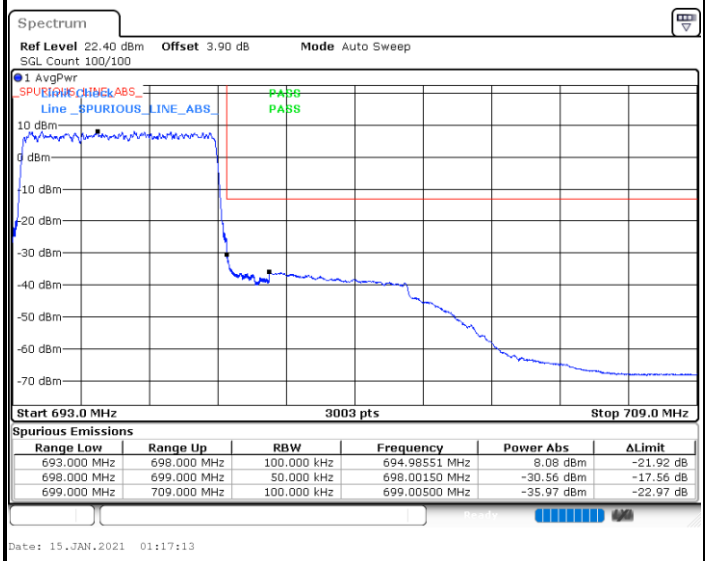


Conducted Band Edge

FR1 n71 / 5MHz / DFT-S OFDM BPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 652.000 MHz / 662.000 MHz / 100.000 kHz / 660.61638 MHz / -35.36 dBm / -22.36 dB 662.000 MHz / 663.000 MHz / 50.000 kHz / 662.98951 MHz / -16.91 dBm / -3.91 dB 663.000 MHz / 668.000 MHz / 100.000 kHz / 663.31219 MHz / 21.27 dBm / -8.73 dB Date: 15.JAN.2021 00:56:30	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 652.000 MHz / 662.000 MHz / 100.000 kHz / 660.35664 MHz / -36.36 dBm / -23.36 dB 662.000 MHz / 663.000 MHz / 50.000 kHz / 662.99850 MHz / -30.16 dBm / -17.16 dB 663.000 MHz / 668.000 MHz / 100.000 kHz / 665.00549 MHz / 8.29 dBm / -21.71 dB Date: 15.JAN.2021 00:55:28	/

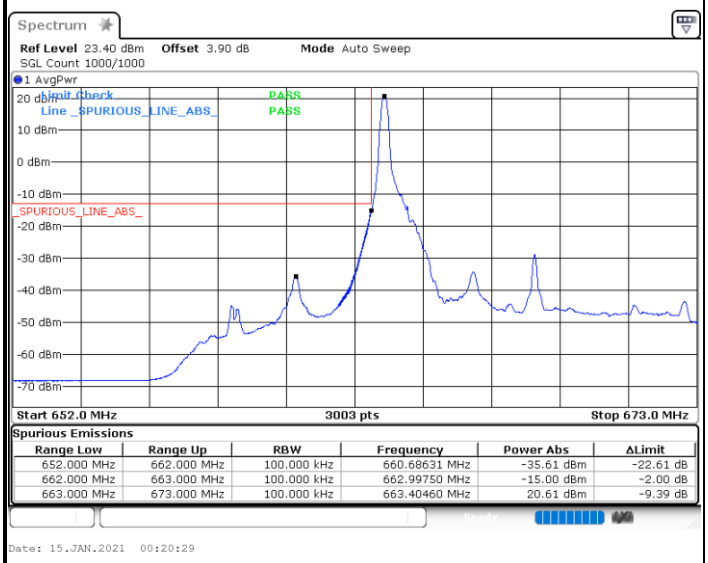
FR1 n71 / 5MHz / DFT-S OFDM BPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 693.000 MHz / 698.000 MHz / 100.000 kHz / 697.64286 MHz / 21.12 dBm / -8.88 dB 698.000 MHz / 699.000 MHz / 50.000 kHz / 698.01149 MHz / -18.71 dBm / -5.71 dB 699.000 MHz / 709.000 MHz / 100.000 kHz / 700.38362 MHz / -38.83 dBm / -25.83 dB Date: 15.JAN.2021 01:19:52	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 693.000 MHz / 698.000 MHz / 100.000 kHz / 694.92557 MHz / 8.42 dBm / -21.58 dB 698.000 MHz / 699.000 MHz / 50.000 kHz / 698.00150 MHz / -30.94 dBm / -17.94 dB 699.000 MHz / 709.000 MHz / 100.000 kHz / 700.19381 MHz / -33.68 dBm / -20.68 dB Date: 15.JAN.2021 01:12:19	/

FR1 n71 / 5MHz / DFT-S OFDM QPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

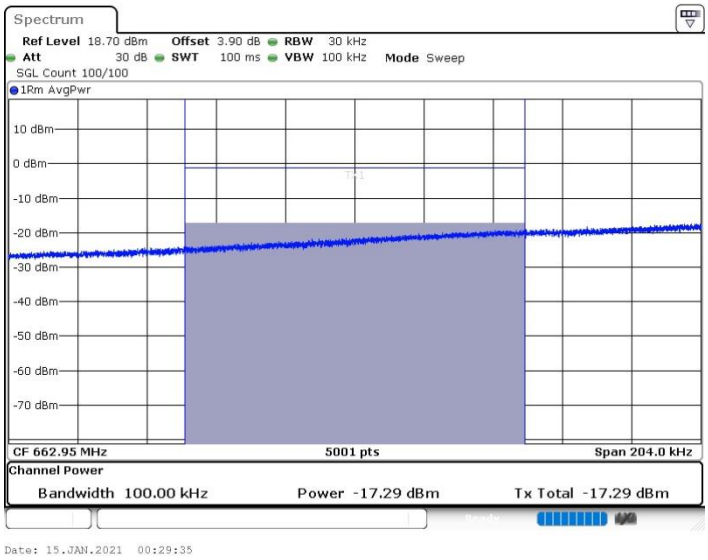
FR1 n71 / 5MHz / DFT-S OFDM QPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 n71 / 10MHz / DFT-S OFDM BPSK

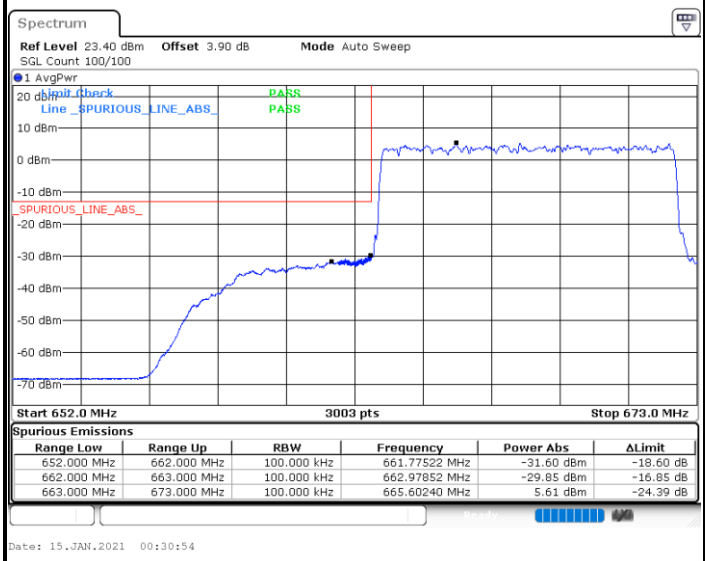
Lowest Band Edge / 1 RB



Channel Power < -13dBm Pass



Lowest Band Edge / Full RB



Channel Power < -13dBm Pass

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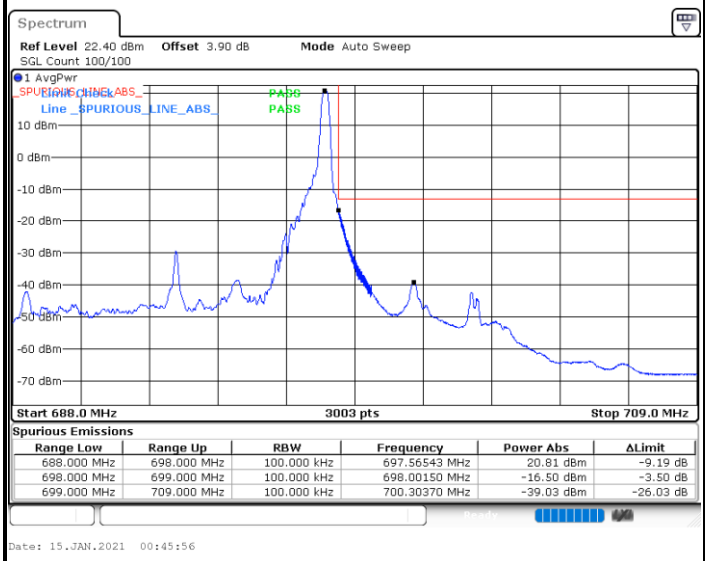
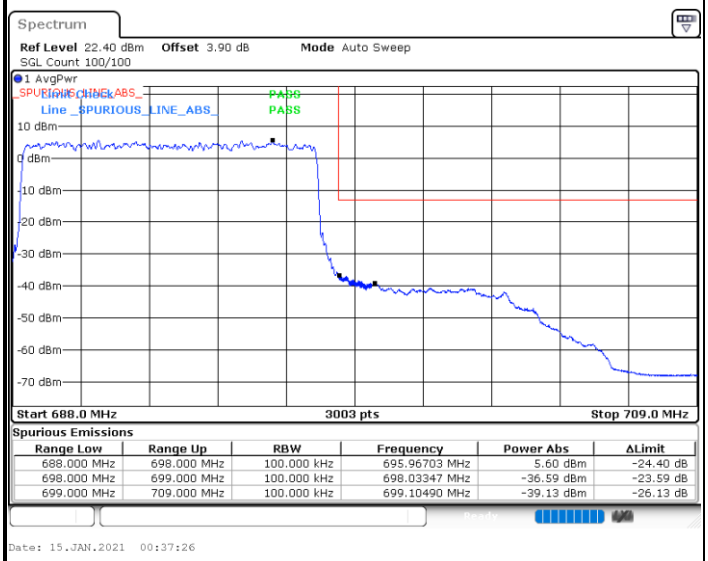
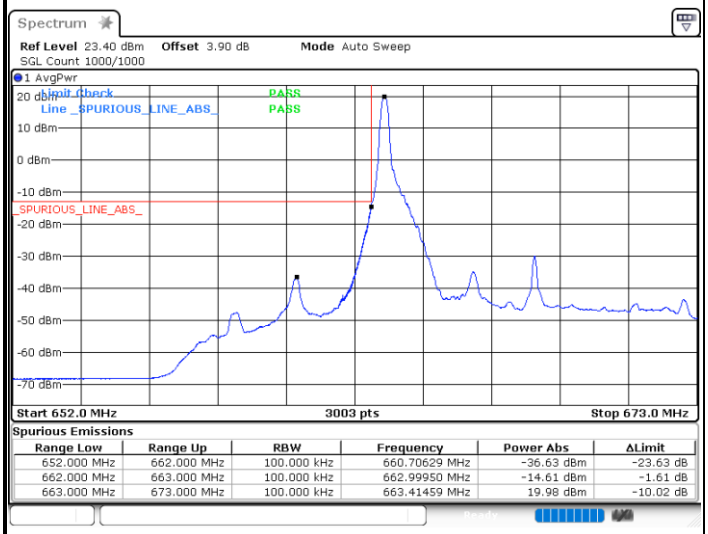
FR1 n71 / 10MHz / DFT-S OFDM BPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 688.000 MHz / 698.000 MHz / 100.000 kHz / 697.56543 MHz / 20.81 dBm / -9.19 dB 698.000 MHz / 699.000 MHz / 100.000 kHz / 698.00150 MHz / -16.50 dBm / -3.50 dB 699.000 MHz / 709.000 MHz / 100.000 kHz / 700.30370 MHz / -39.03 dBm / -26.03 dB Date: 15.JAN.2021 00:45:56	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 688.000 MHz / 698.000 MHz / 100.000 kHz / 695.96703 MHz / 5.60 dBm / -24.40 dB 698.000 MHz / 699.000 MHz / 100.000 kHz / 698.03347 MHz / -36.59 dBm / -23.59 dB 699.000 MHz / 709.000 MHz / 100.000 kHz / 699.10490 MHz / -39.13 dBm / -26.13 dB Date: 15.JAN.2021 00:37:26	/

FR1 n71 / 10MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

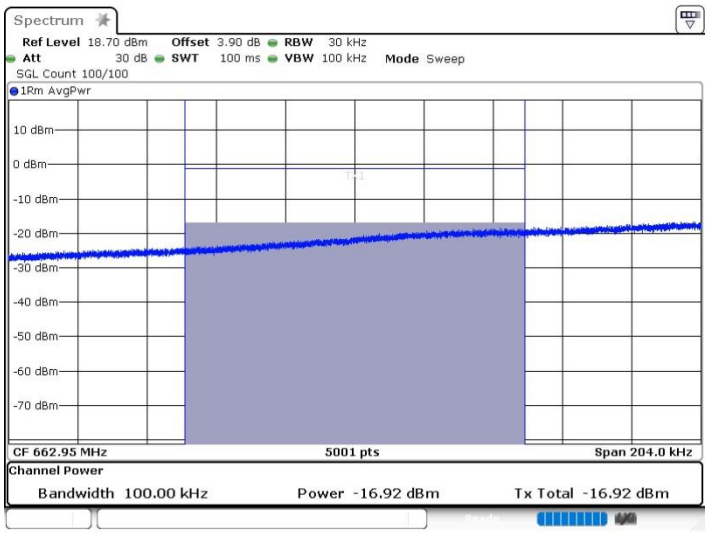


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.000 MHz	100.000 kHz	660.70629 MHz	-36.63 dBm	-23.63 dB
662.000 MHz	663.000 MHz	100.000 kHz	662.99950 MHz	-14.61 dBm	-1.61 dB
663.000 MHz	673.000 MHz	100.000 kHz	663.41459 MHz	19.98 dBm	-10.02 dB

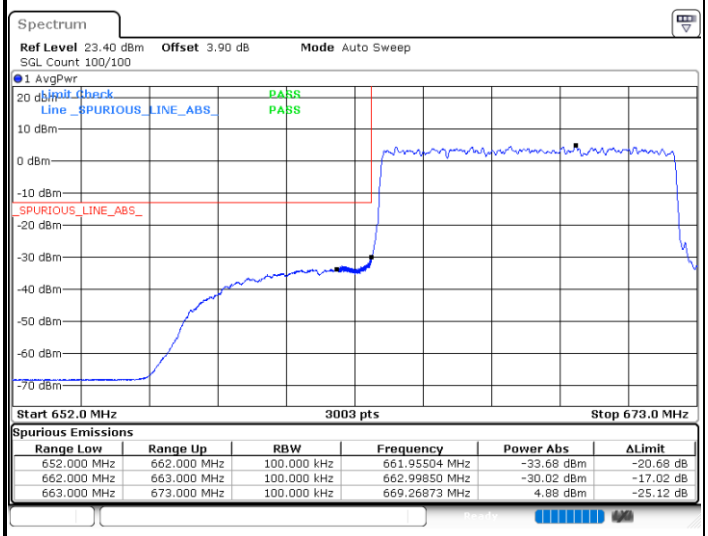
Date: 15.JAN.2021 00:27:30

Channel Power < -13dBm Pass



Date: 15.JAN.2021 00:29:05

Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.000 MHz	100.000 kHz	661.95504 MHz	-33.68 dBm	-20.68 dB
662.000 MHz	663.000 MHz	100.000 kHz	662.99850 MHz	-30.02 dBm	-17.02 dB
663.000 MHz	673.000 MHz	100.000 kHz	669.26873 MHz	4.88 dBm	-25.12 dB

Date: 15.JAN.2021 00:31:55

Channel Power < -13dBm Pass

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