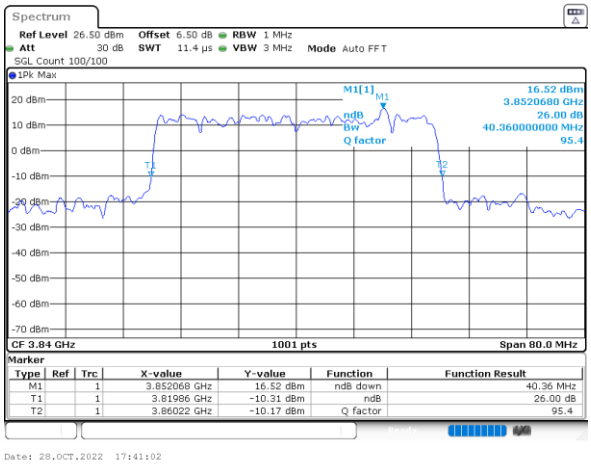
40MHz CP

QPSK



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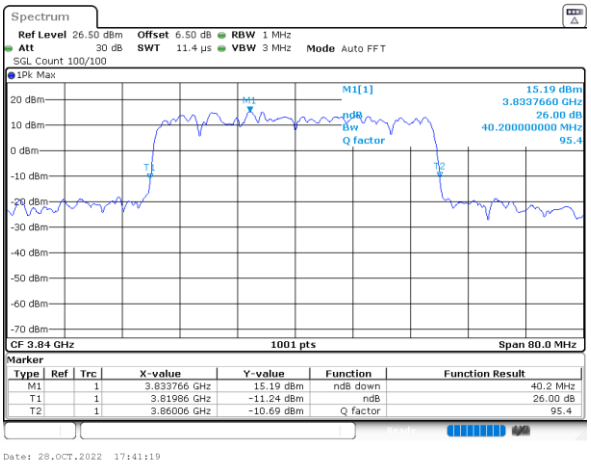

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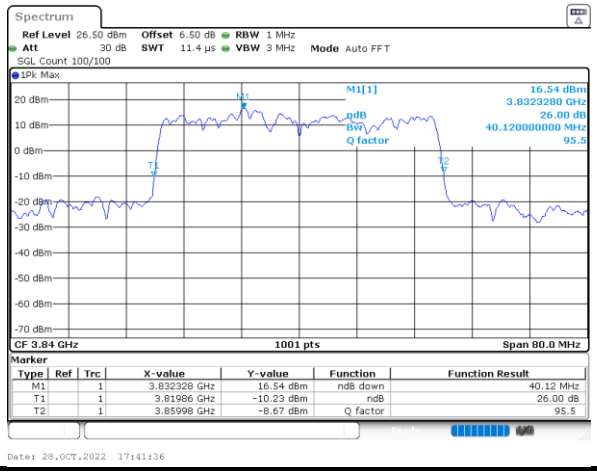

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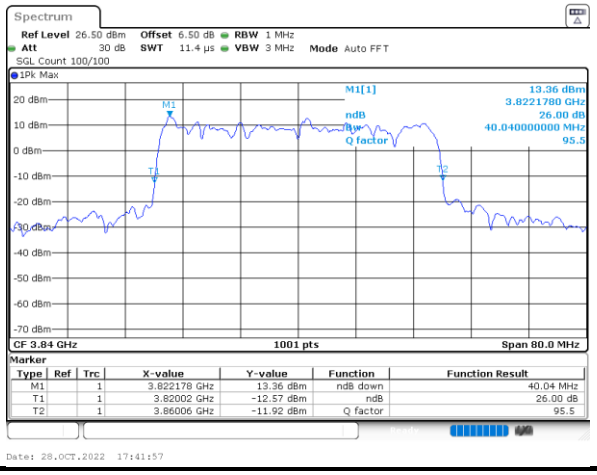
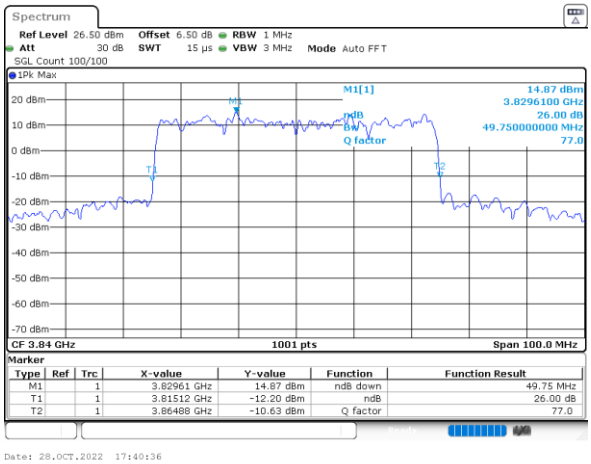


50MHz CP

QPSK



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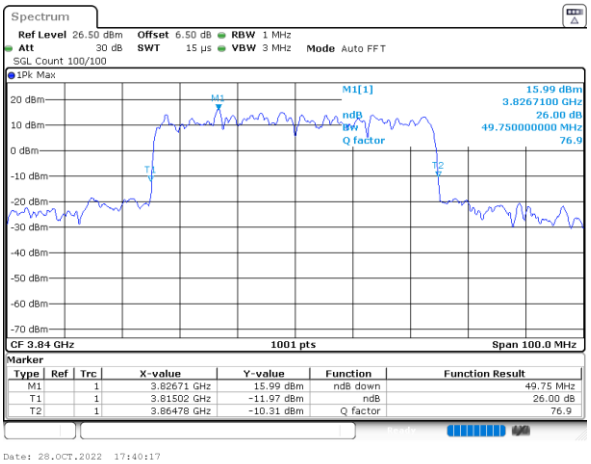

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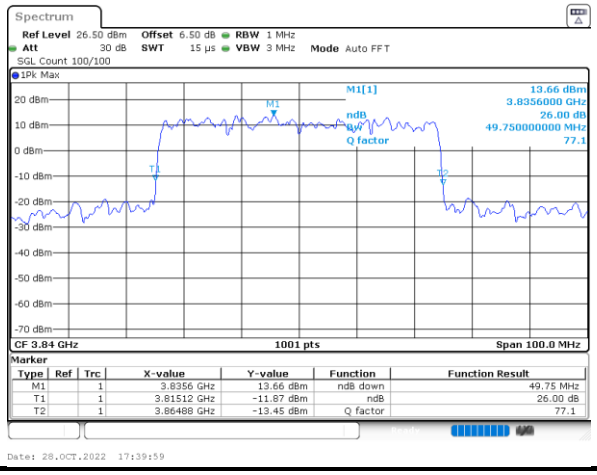

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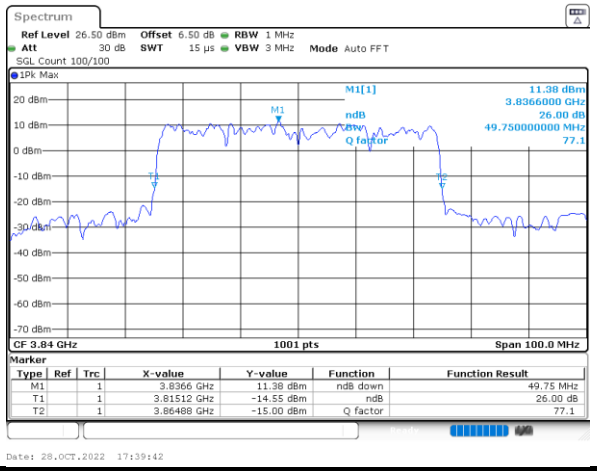
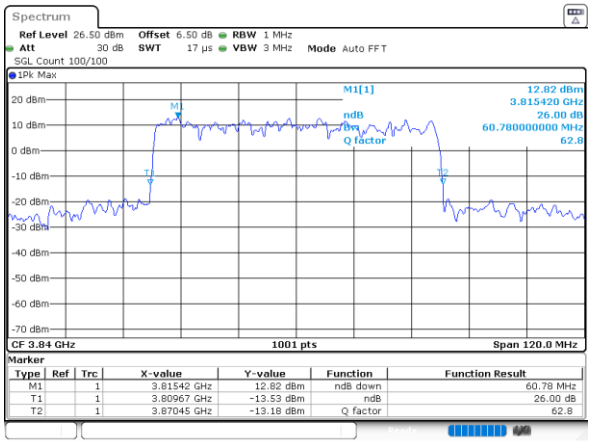


60MHz CP

QPSK



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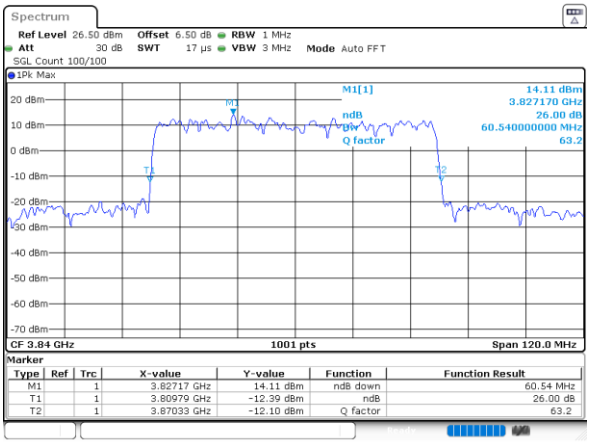

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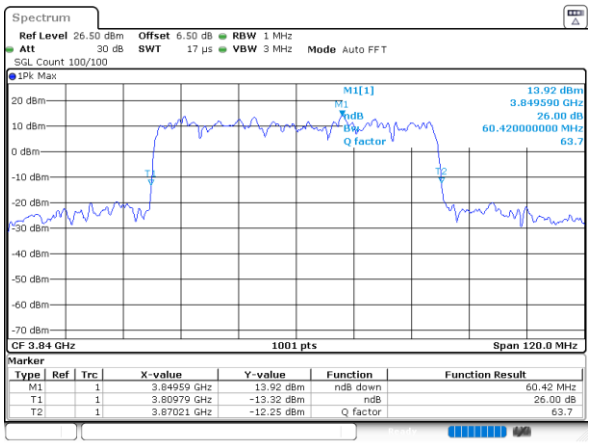

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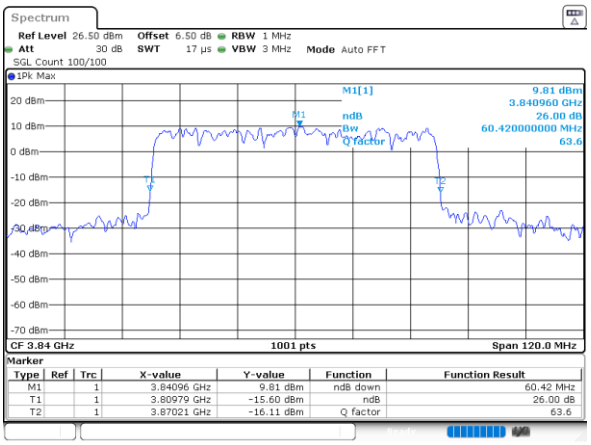
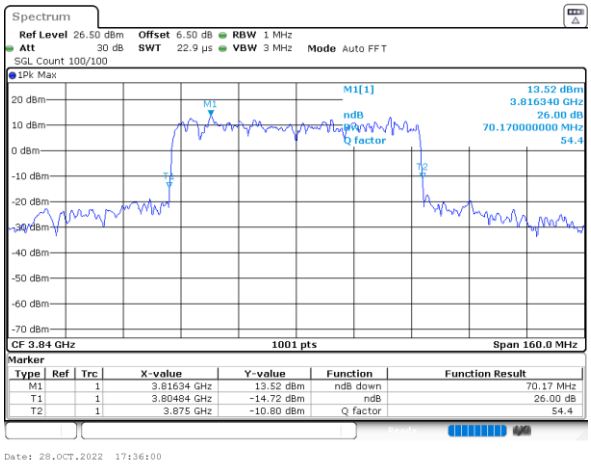


70MHz CP

QPSK



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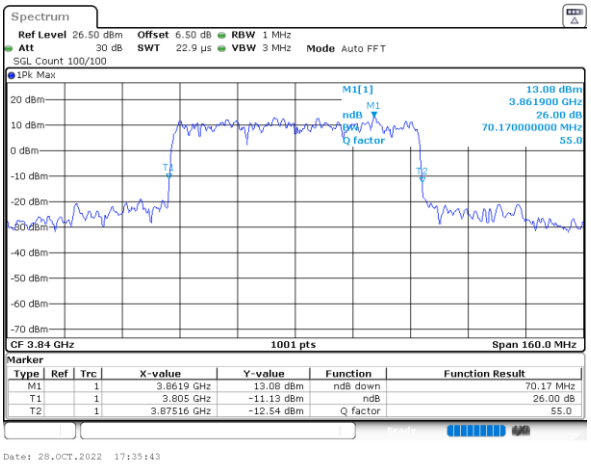

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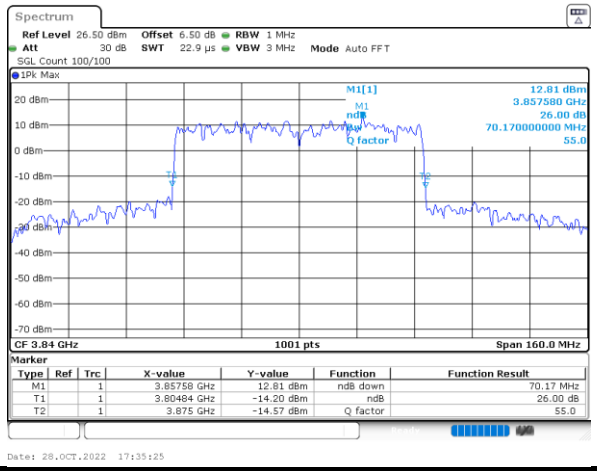

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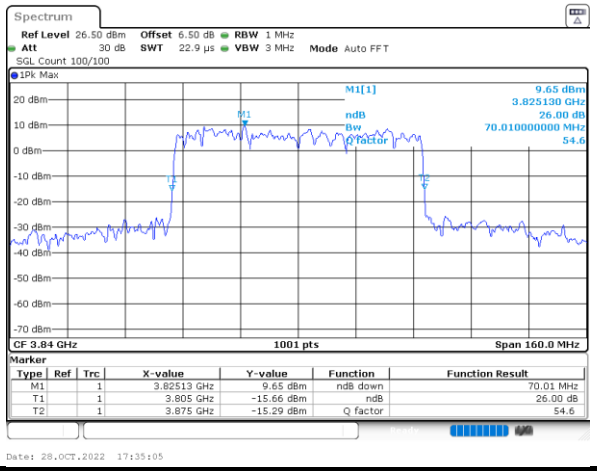
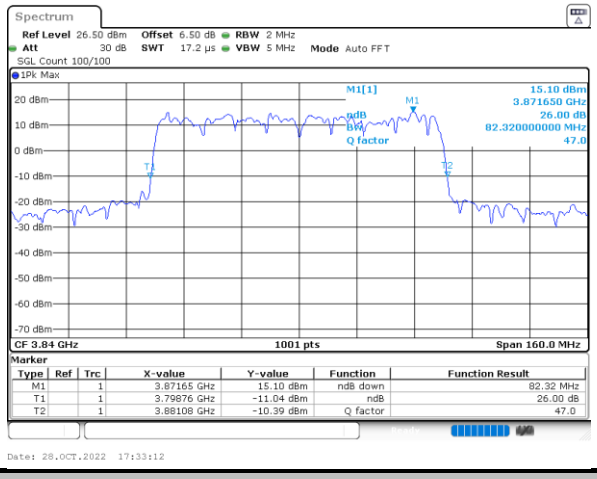


80MHz CP

QPSK



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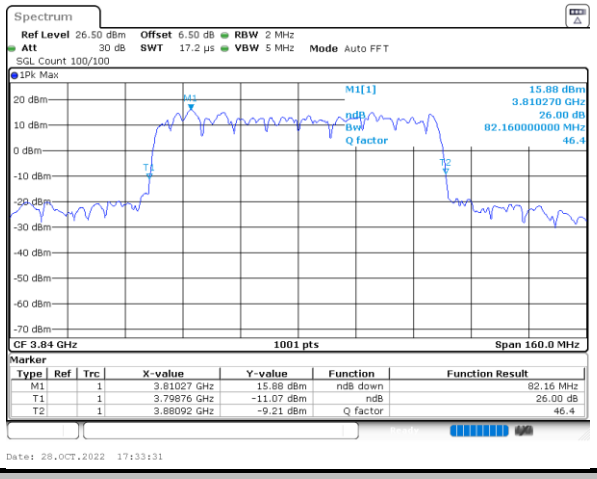

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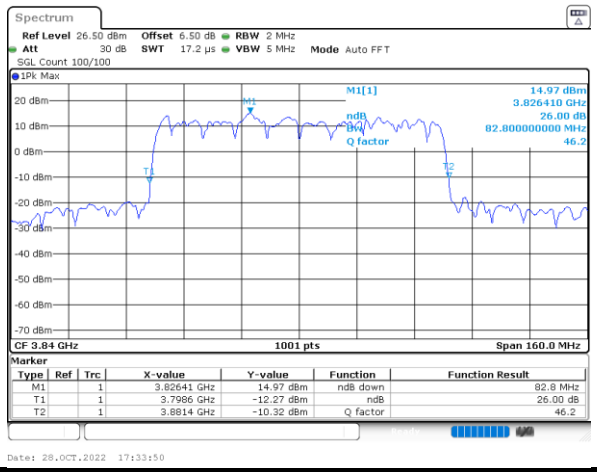

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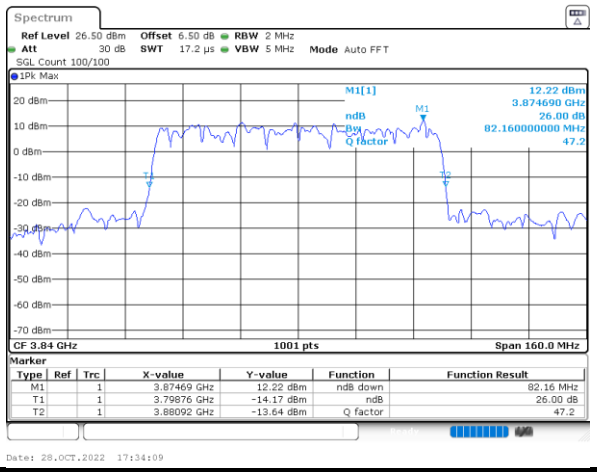
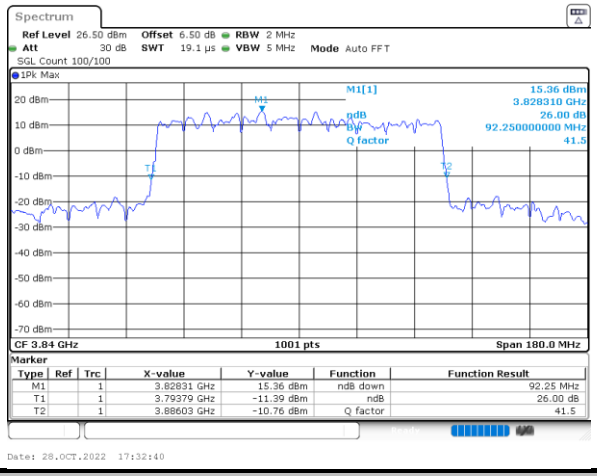


90MHz CP

QPSK



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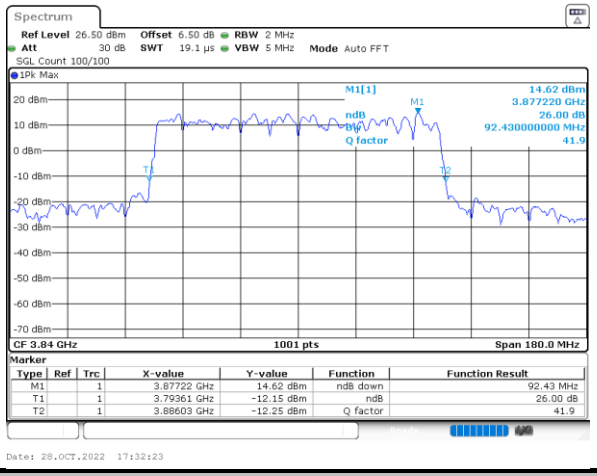

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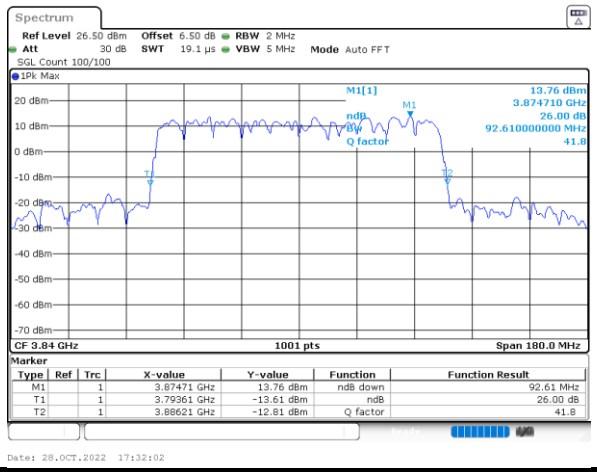

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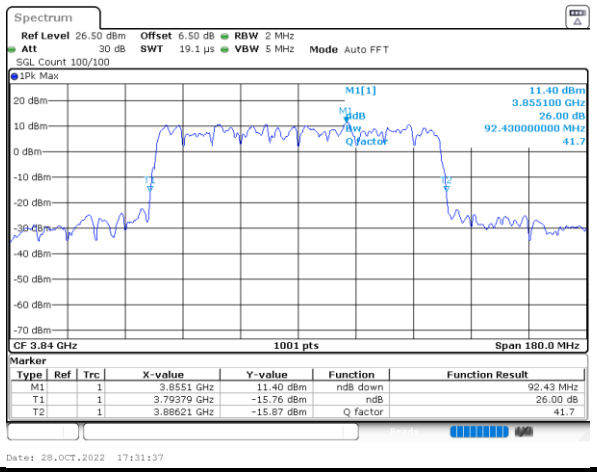
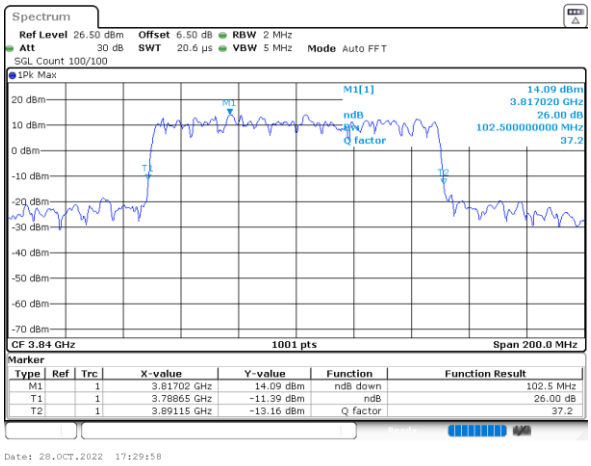


100MHz CP

QPSK



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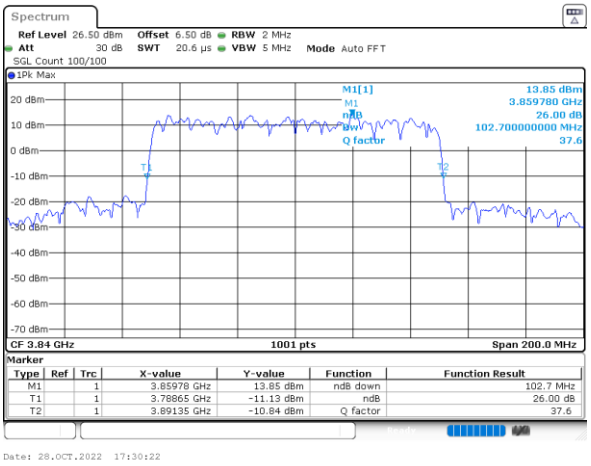

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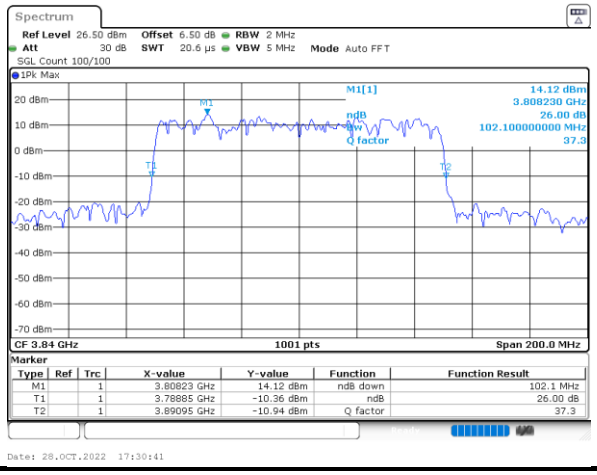

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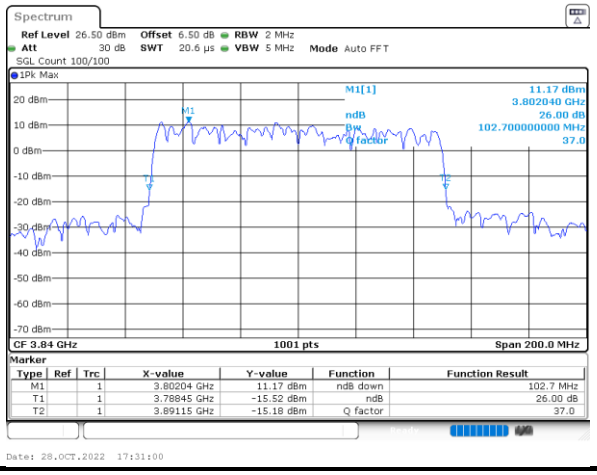
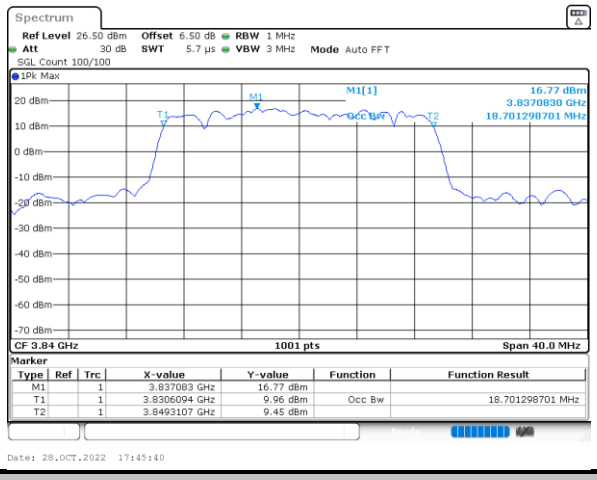


Occupied Bandwidth

Mode	FR1 n77 : OB BW(20 MHz) / CP OFDM				
BW	CP				
Mod.		QPSK	16QAM	64QAM	256QAM
Middle CH		18.70	18.86	18.54	18.58
Mode	FR1 n77 : OB BW(30 MHz) / CP OFDM				
BW	CP				
Mod.		QPSK	16QAM	64QAM	256QAM
Middle CH		27.85	27.69	27.77	27.81
Mode	FR1 n77 : OB BW(40 MHz) / CP OFDM				
BW	CP				
Mod.		QPSK	16QAM	64QAM	256QAM
Middle CH		37.72	38.20	38.04	37.96
Mode	FR1 n77 : OB BW(50 MHz) / CP OFDM				
BW	CP				
Mod.		QPSK	16QAM	64QAM	256QAM
Middle CH		47.65	47.45	47.65	47.45
Mode	FR1 n77 : OB BW(60 MHz) / CP OFDM				
BW	CP				
Mod.		QPSK	16QAM	64QAM	256QAM
Middle CH		58.14	57.78	57.78	58.02
Mode	FR1 n77 : OB BW(70 MHz) / CP OFDM				
BW	CP				
Mod.		QPSK	16QAM	64QAM	256QAM
Middle CH		67.77	67.29	67.61	67.61
Mode	FR1 n77 : OB BW(80 MHz) / CP OFDM				
BW	CP				
Mod.		QPSK	16QAM	64QAM	256QAM
Middle CH		77.84	78.48	78.16	77.84
Mode	FR1 n77 : OB BW(90 MHz) / CP OFDM				
BW	CP				
Mod.		QPSK	16QAM	64QAM	256QAM
Middle CH		87.39	87.21	87.93	87.93
Mode	FR1 n77 : OB BW(100 MHz) / CP OFDM				
BW	CP				
Mod.		QPSK	16QAM	64QAM	256QAM
Middle CH		98.70	98.10	97.50	98.10

20MHz CP

QPSK



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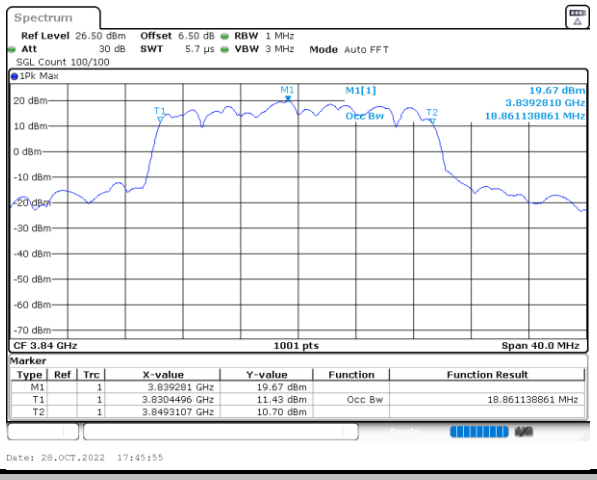

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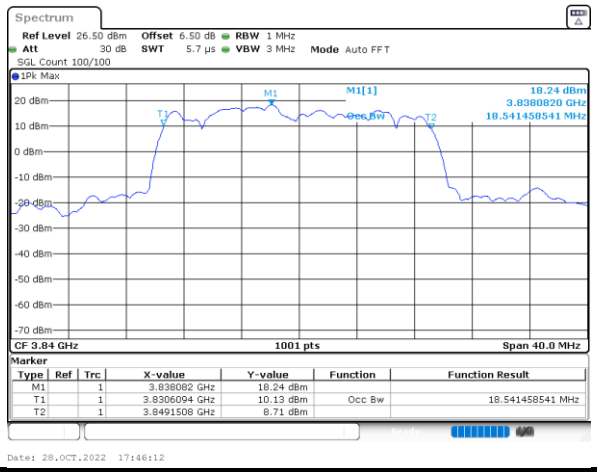

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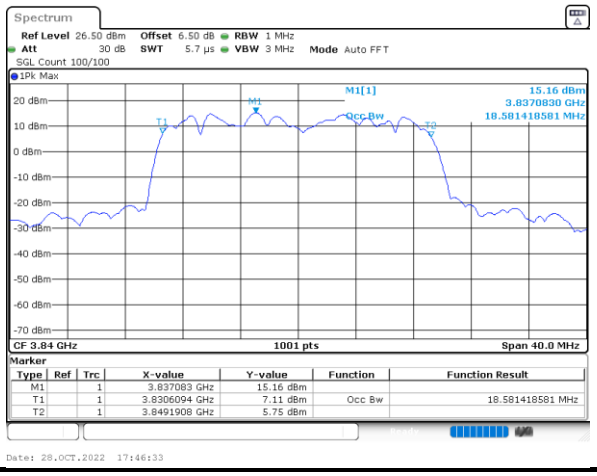
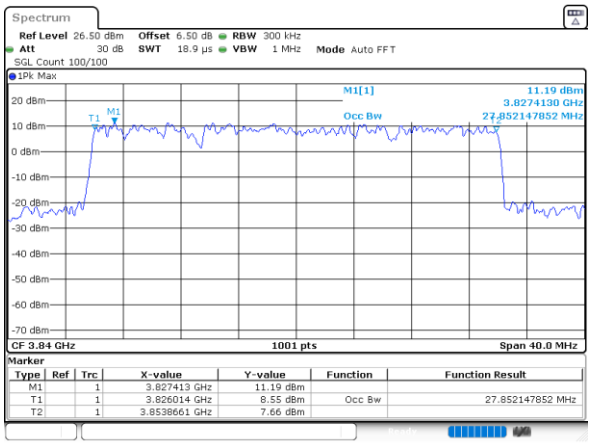


30MHz CP

QPSK



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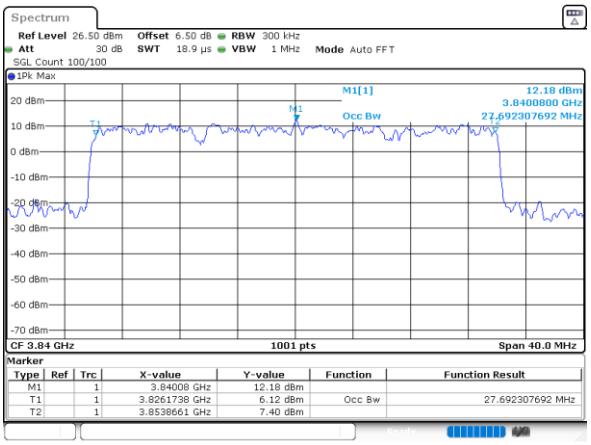

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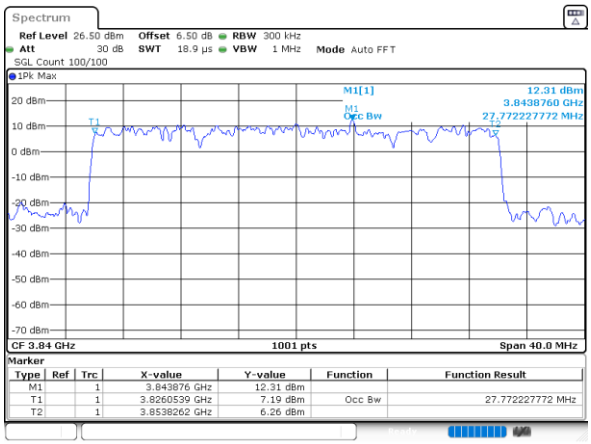

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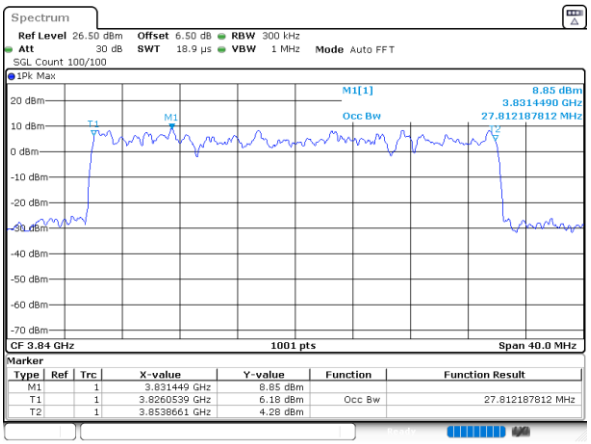
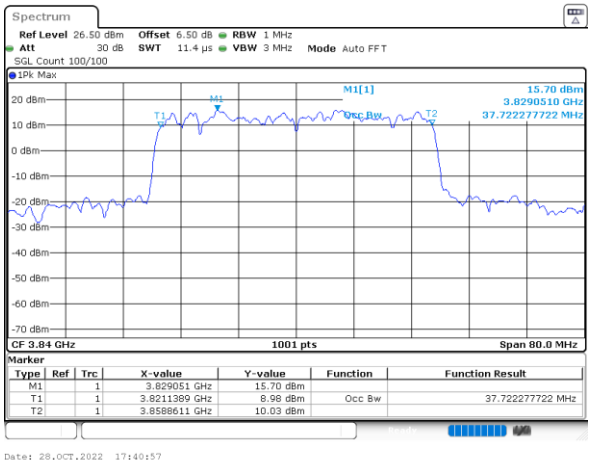


40MHz CP

QPSK



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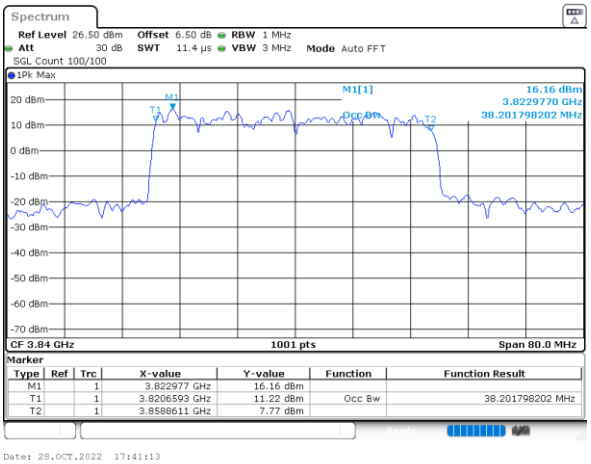

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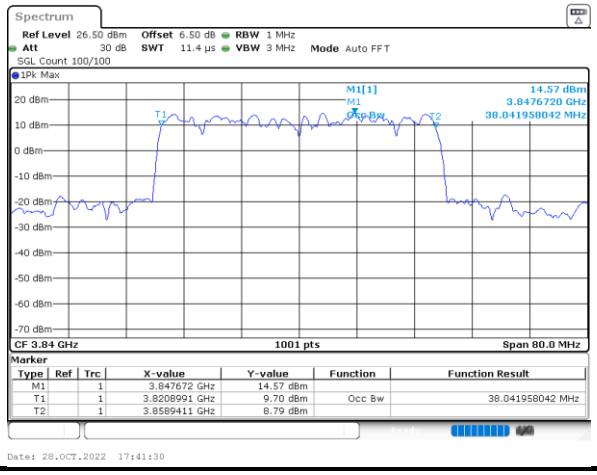

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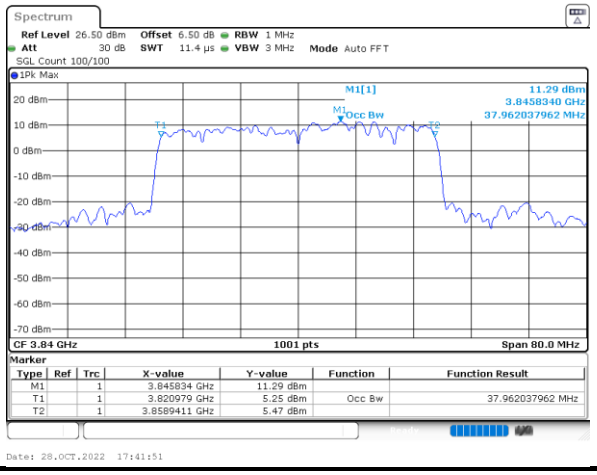
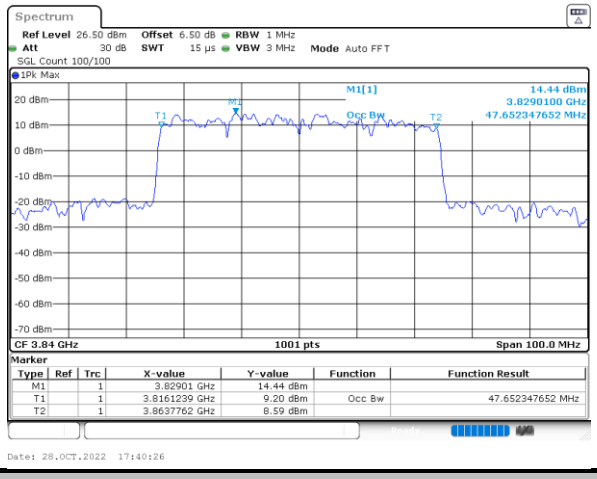


50MHz CP

QPSK



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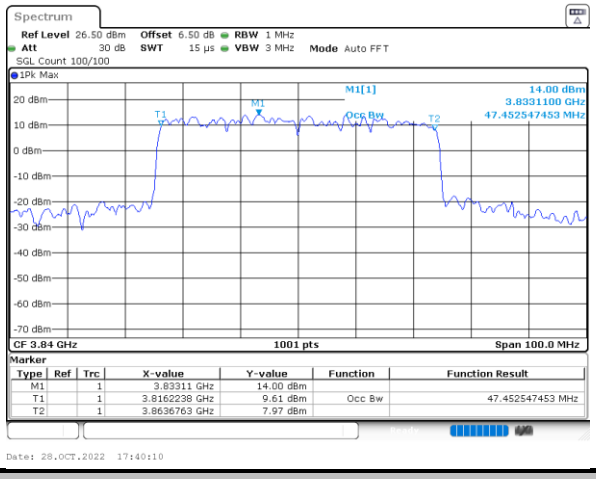

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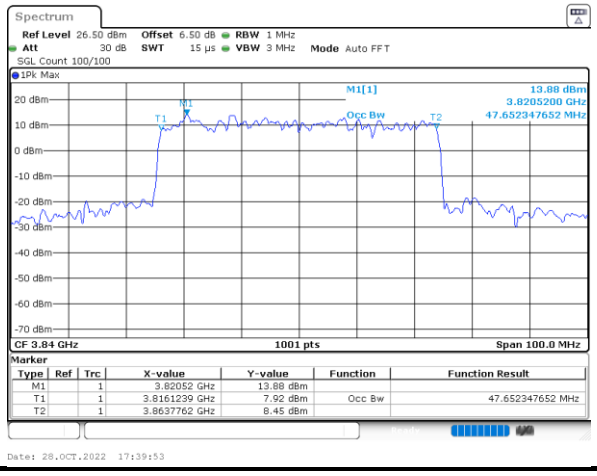

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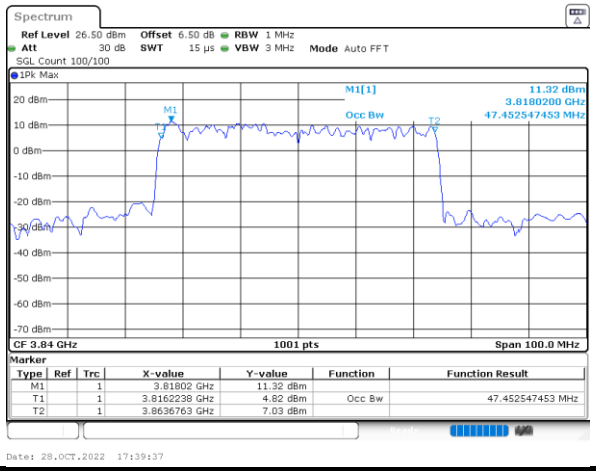
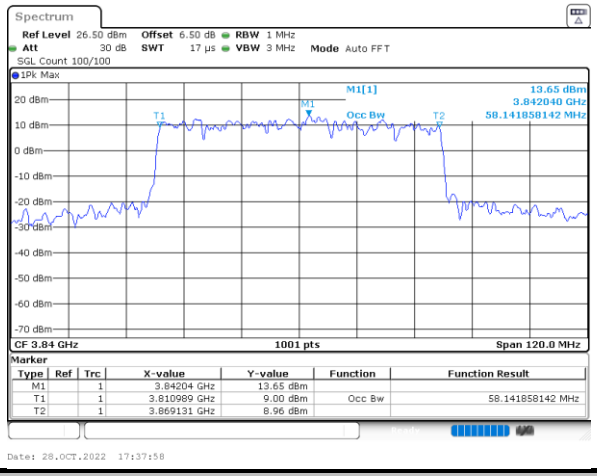


60MHz CP

QPSK



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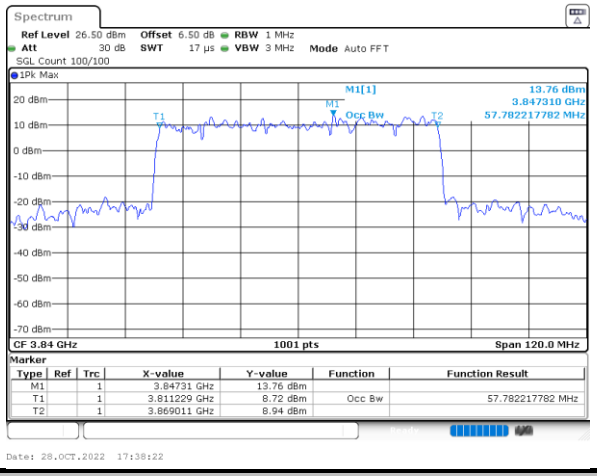

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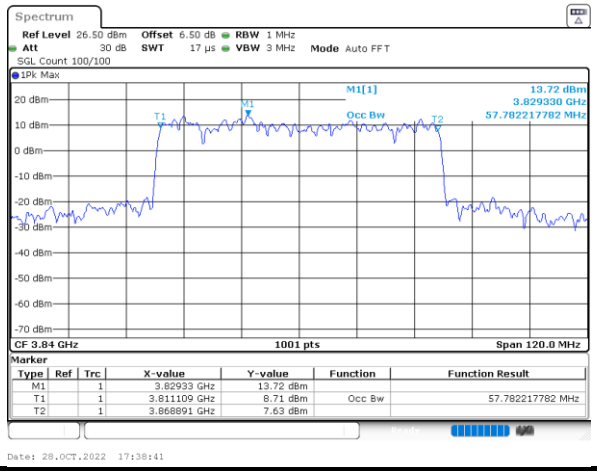

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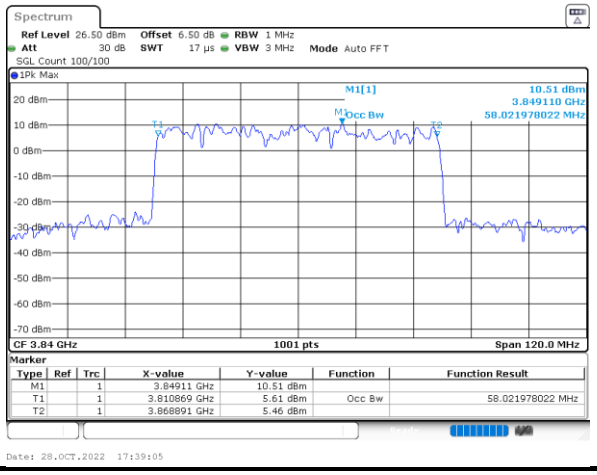
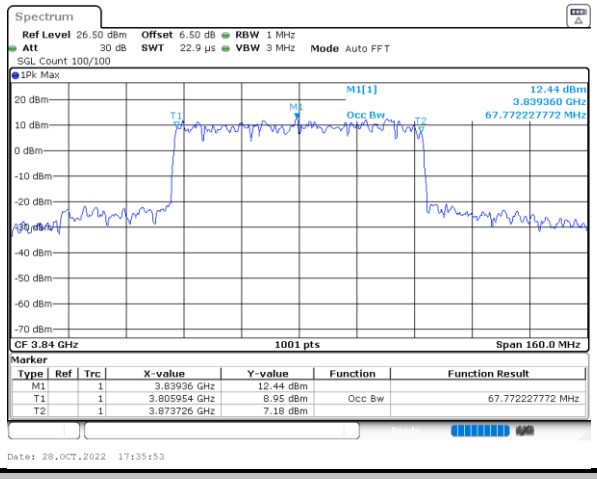
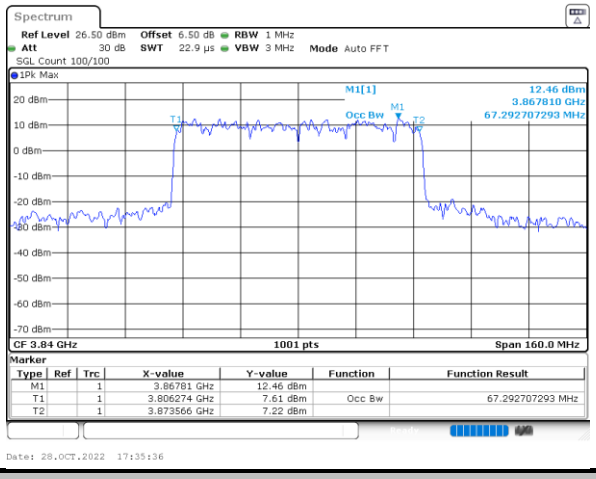
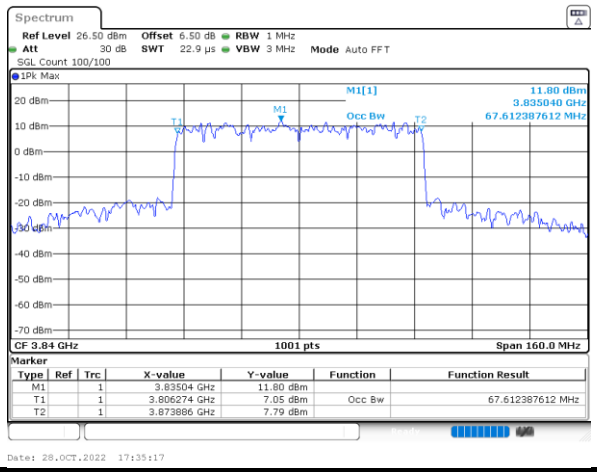


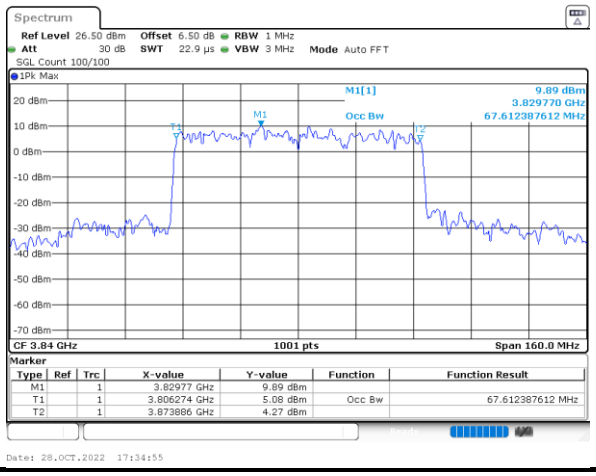
70MHz CP	
QPSK	16QAM





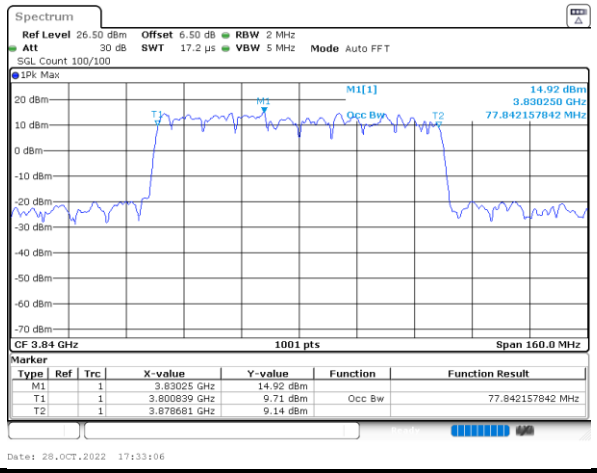
64QAM	256QAM



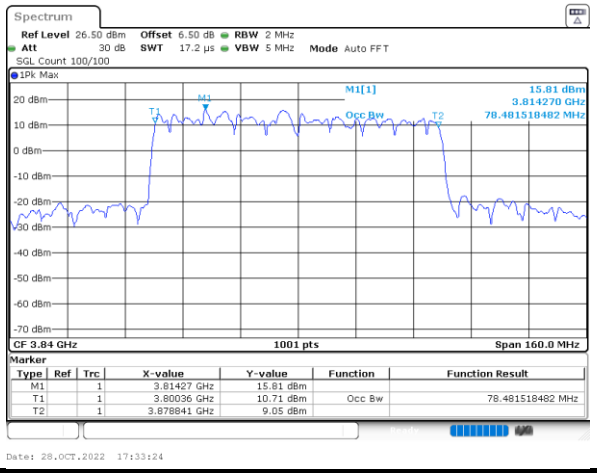


80MHz CP

QPSK



16QAM



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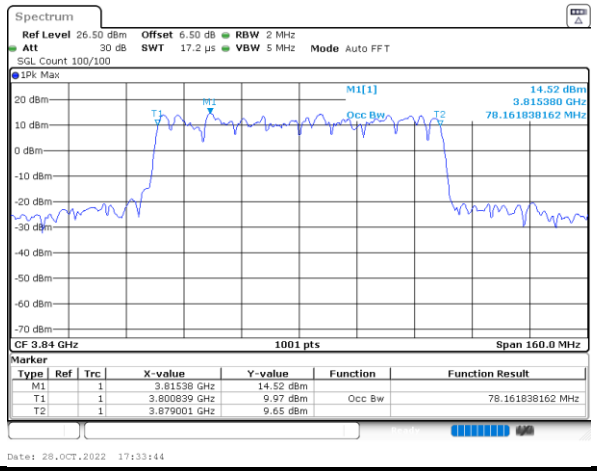

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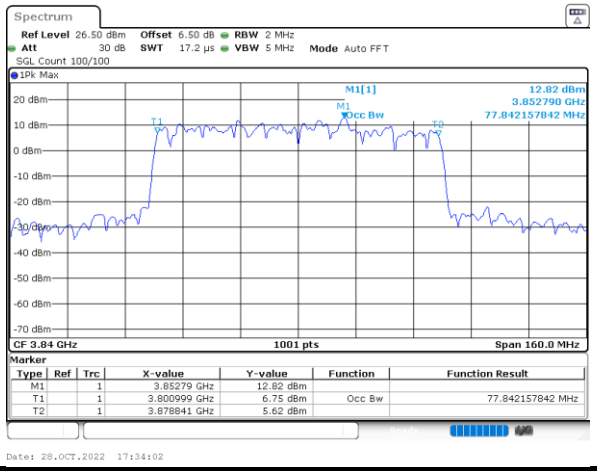
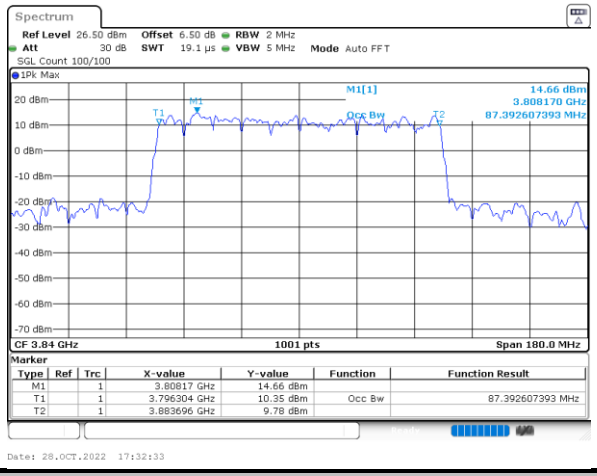


90MHz CP

QPSK



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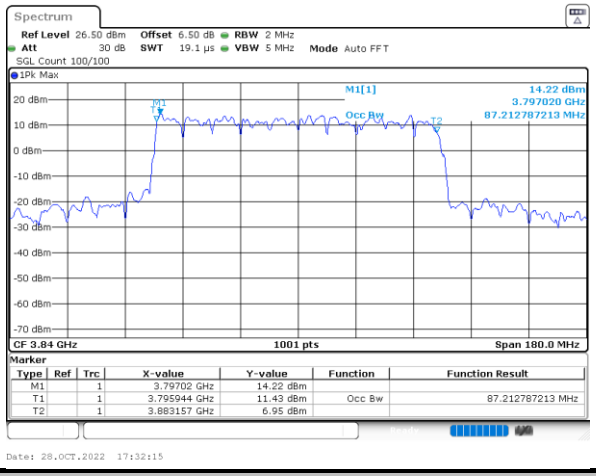

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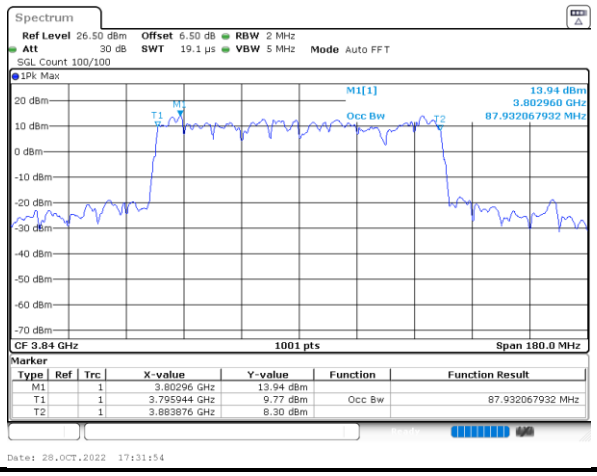

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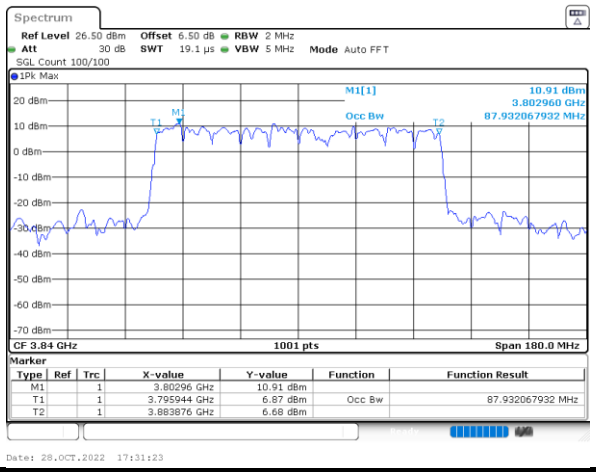
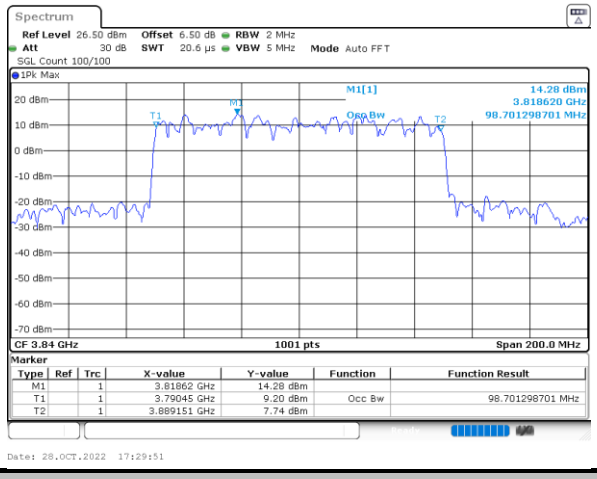


100MHz CP

QPSK



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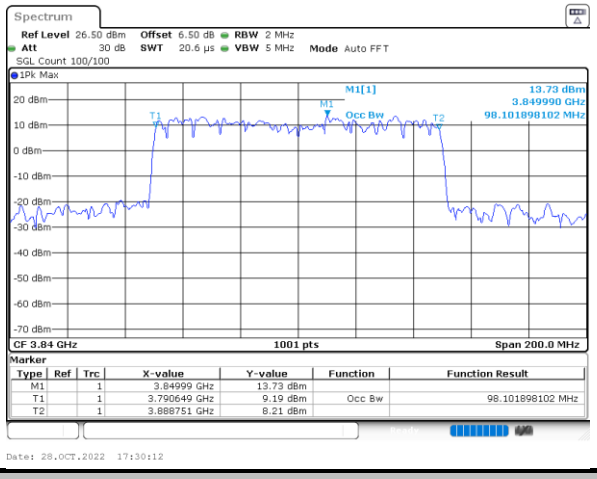

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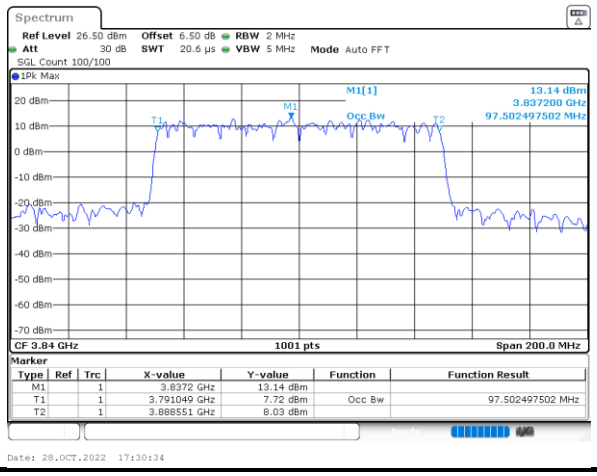

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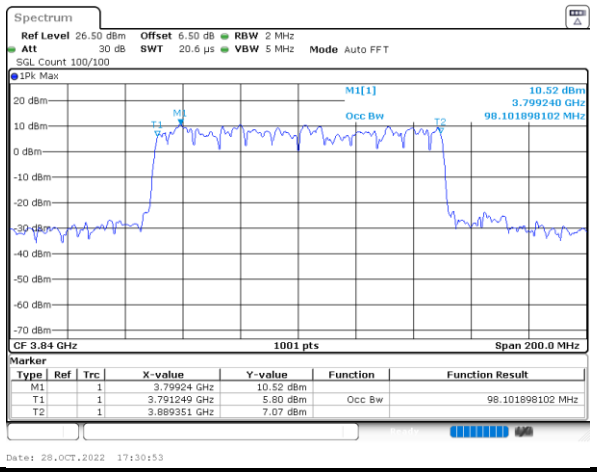
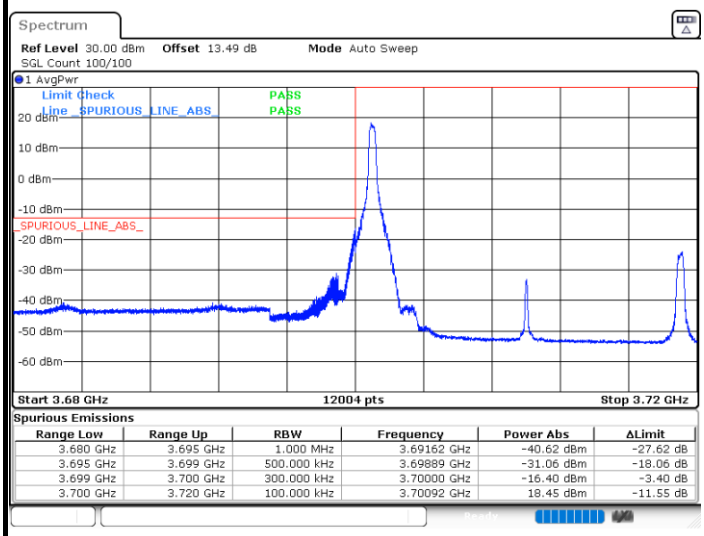


Conducted Band Edge

FR1 n77 / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

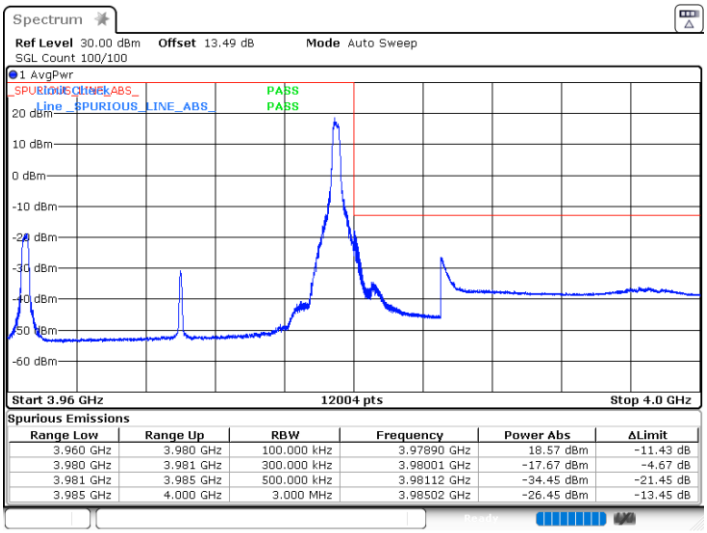


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.680 GHz	3.695 GHz	1.000 MHz	3.69162 GHz	-40.62 dBm	-27.62 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69889 GHz	-31.06 dBm	-18.06 dB
3.699 GHz	3.700 GHz	300.000 kHz	3.70000 GHz	-16.40 dBm	-3.40 dB
3.700 GHz	3.720 GHz	100.000 kHz	3.70092 GHz	18.45 dBm	-11.55 dB

Date: 28.OCT.2022 16:01:42

Highest Band Edge / 1RBmax

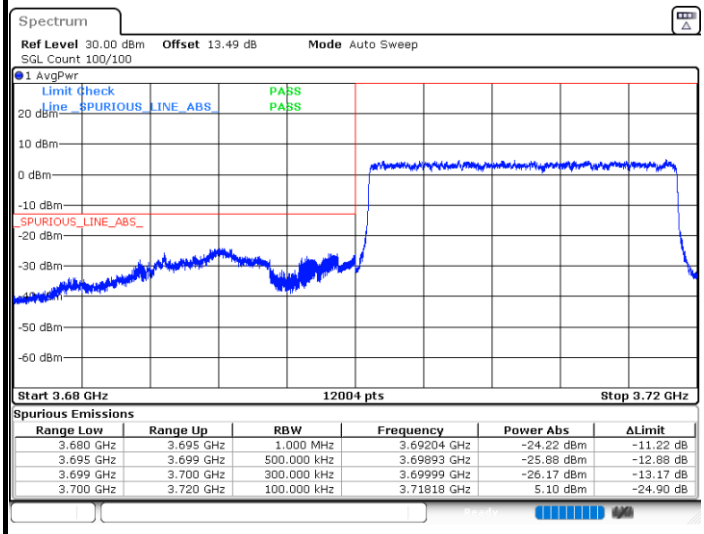


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.960 GHz	3.980 GHz	100.000 kHz	3.97890 GHz	18.57 dBm	-11.43 dB
3.980 GHz	3.981 GHz	300.000 kHz	3.98001 GHz	-17.67 dBm	-4.67 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98112 GHz	-34.45 dBm	-21.45 dB
3.985 GHz	4.000 GHz	3.000 MHz	3.98502 GHz	-26.45 dBm	-13.45 dB

Date: 28.OCT.2022 16:15:02

Lowest Band Edge / Full RB

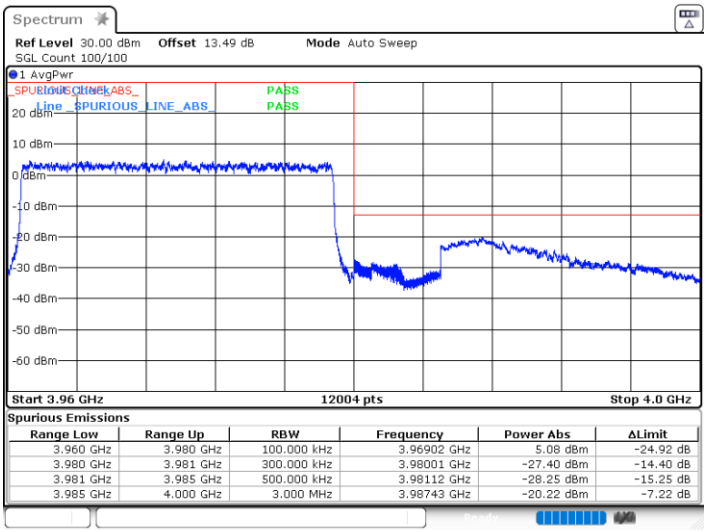


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.680 GHz	3.695 GHz	1.000 MHz	3.69204 GHz	-24.22 dBm	-11.22 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69893 GHz	-25.88 dBm	-12.88 dB
3.699 GHz	3.700 GHz	300.000 kHz	3.69999 GHz	-26.17 dBm	-13.17 dB
3.700 GHz	3.720 GHz	100.000 kHz	3.71818 GHz	5.10 dBm	-24.90 dB

Date: 28.OCT.2022 16:06:26

Highest Band Edge / Full RB



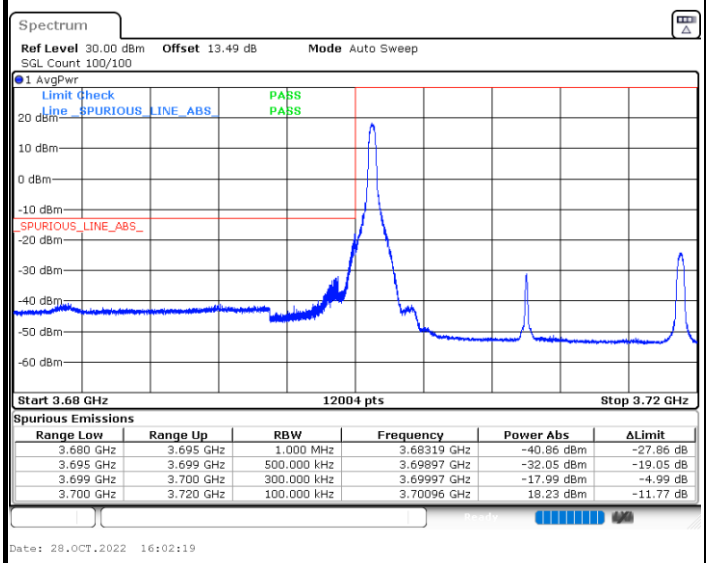
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.960 GHz	3.980 GHz	100.000 kHz	3.96902 GHz	5.08 dBm	-24.92 dB
3.980 GHz	3.981 GHz	300.000 kHz	3.98001 GHz	-27.40 dBm	-14.40 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98112 GHz	-28.25 dBm	-15.25 dB
3.985 GHz	4.000 GHz	3.000 MHz	3.98743 GHz	-20.22 dBm	-7.22 dB

Date: 28.OCT.2022 16:13:08

FR1 n77 / 20MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

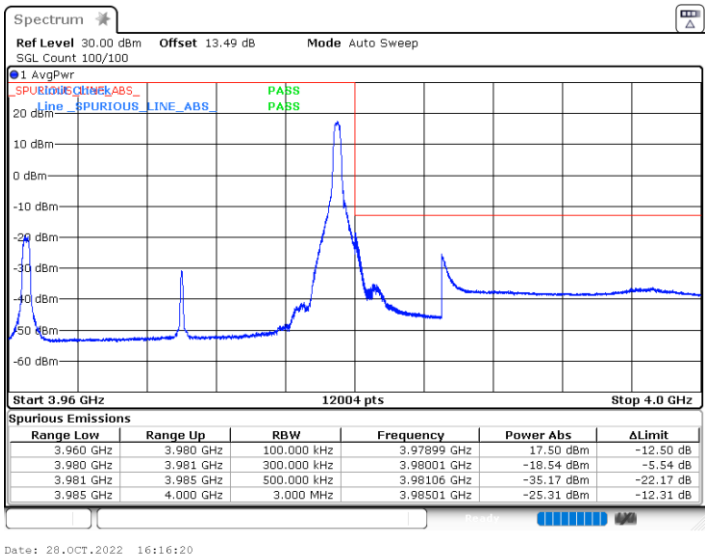


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.680 GHz	3.695 GHz	1.000 MHz	3.68319 GHz	-40.86 dBm	-27.86 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69897 GHz	-32.05 dBm	-19.05 dB
3.699 GHz	3.700 GHz	300.000 kHz	3.69997 GHz	-17.99 dBm	-4.99 dB
3.700 GHz	3.720 GHz	100.000 kHz	3.70096 GHz	18.23 dBm	-11.77 dB

Date: 28.OCT.2022 16:02:19

Highest Band Edge / 1RBmax

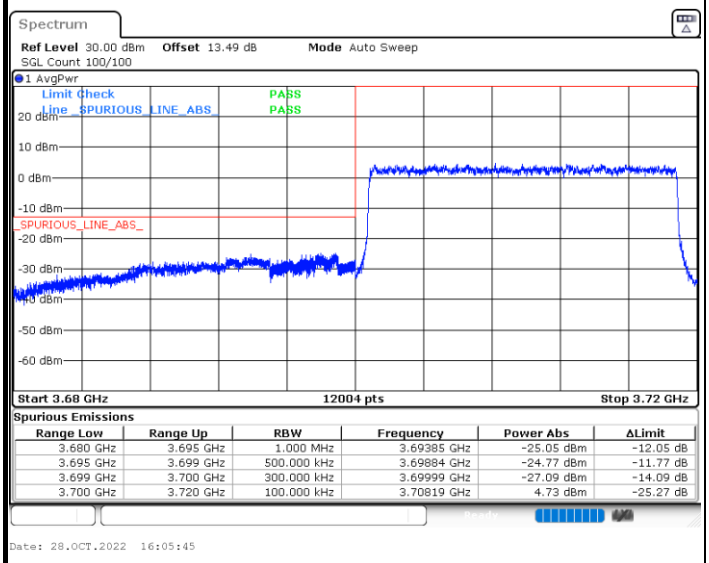


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.960 GHz	3.980 GHz	100.000 kHz	3.97899 GHz	17.50 dBm	-12.50 dB
3.980 GHz	3.981 GHz	300.000 kHz	3.98001 GHz	-18.54 dBm	-5.54 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98106 GHz	-35.17 dBm	-22.17 dB
3.985 GHz	4.000 GHz	3.000 MHz	3.98501 GHz	-25.31 dBm	-12.31 dB

Date: 28.OCT.2022 16:16:20

Lowest Band Edge / Full RB

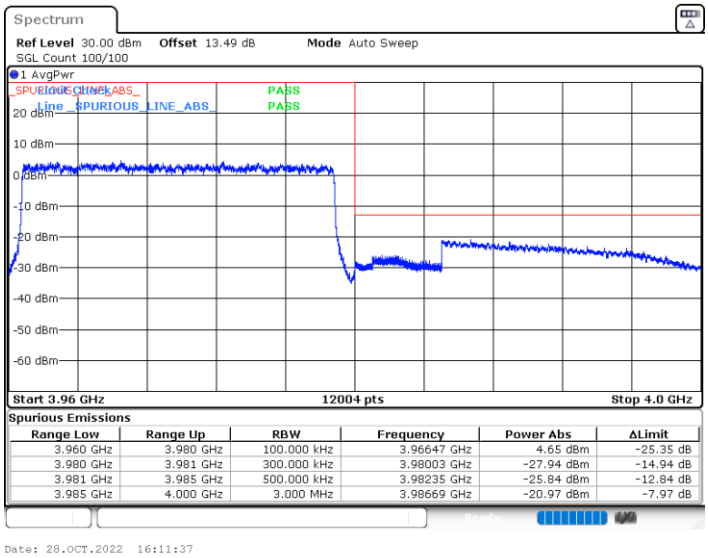


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.680 GHz	3.695 GHz	1.000 MHz	3.69385 GHz	-25.05 dBm	-12.05 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69884 GHz	-24.77 dBm	-11.77 dB
3.699 GHz	3.700 GHz	300.000 kHz	3.69999 GHz	-27.09 dBm	-14.09 dB
3.700 GHz	3.720 GHz	100.000 kHz	3.70819 GHz	4.73 dBm	-25.27 dB

Date: 28.OCT.2022 16:05:45

Highest Band Edge / Full RB



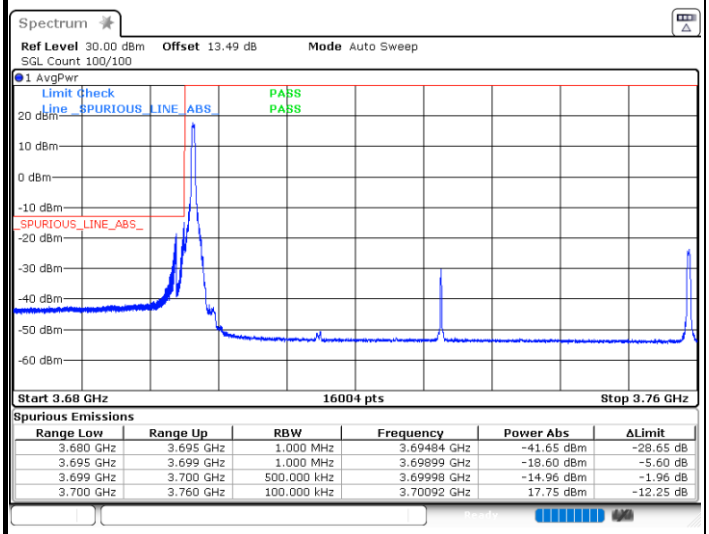
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.960 GHz	3.980 GHz	100.000 kHz	3.96647 GHz	4.65 dBm	-25.35 dB
3.980 GHz	3.981 GHz	300.000 kHz	3.98003 GHz	-27.94 dBm	-14.94 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98235 GHz	-25.84 dBm	-12.84 dB
3.985 GHz	4.000 GHz	3.000 MHz	3.98669 GHz	-20.97 dBm	-7.97 dB

Date: 28.OCT.2022 16:11:37

FR1 n77 / 60MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

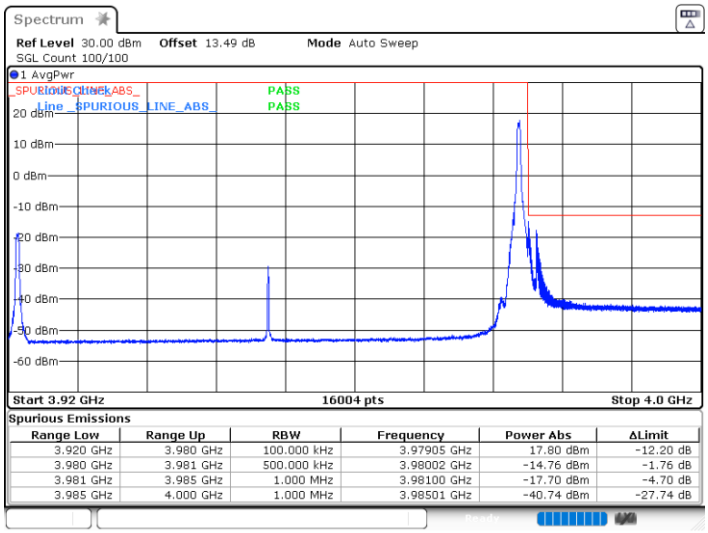


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.680 GHz	3.695 GHz	1.000 MHz	3.69484 GHz	-41.65 dBm	-28.65 dB
3.695 GHz	3.699 GHz	1.000 MHz	3.69899 GHz	-18.60 dBm	-5.60 dB
3.699 GHz	3.700 GHz	500.000 kHz	3.69998 GHz	-14.96 dBm	-1.96 dB
3.700 GHz	3.760 GHz	100.000 kHz	3.70092 GHz	17.75 dBm	-12.25 dB

Date: 28.OCT.2022 16:24:31

Highest Band Edge / 1RBmax

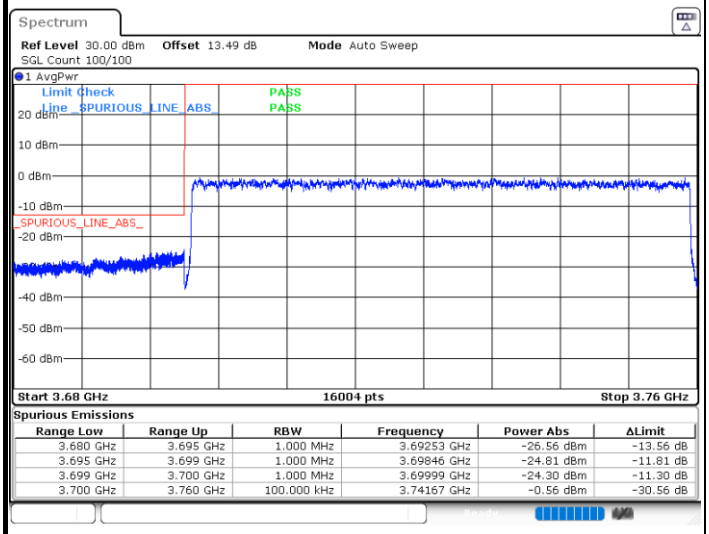


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.920 GHz	3.980 GHz	100.000 kHz	3.97905 GHz	17.80 dBm	-12.20 dB
3.980 GHz	3.981 GHz	500.000 kHz	3.98002 GHz	-14.76 dBm	-1.76 dB
3.981 GHz	3.985 GHz	1.000 MHz	3.98100 GHz	-17.70 dBm	-4.70 dB
3.985 GHz	4.000 GHz	1.000 MHz	3.98501 GHz	-40.74 dBm	-27.74 dB

Date: 28.OCT.2022 16:41:01

Lowest Band Edge / Full RB

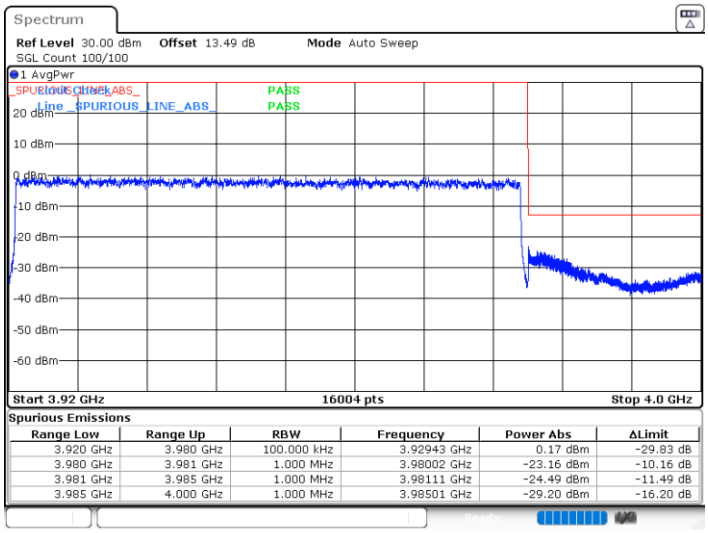


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.680 GHz	3.695 GHz	1.000 MHz	3.69253 GHz	-26.56 dBm	-13.56 dB
3.695 GHz	3.699 GHz	1.000 MHz	3.69846 GHz	-24.81 dBm	-11.81 dB
3.699 GHz	3.700 GHz	1.000 MHz	3.69999 GHz	-24.30 dBm	-11.30 dB
3.700 GHz	3.760 GHz	100.000 kHz	3.74167 GHz	-0.56 dBm	-30.56 dB

Date: 28.OCT.2022 16:30:41

Highest Band Edge / Full RB



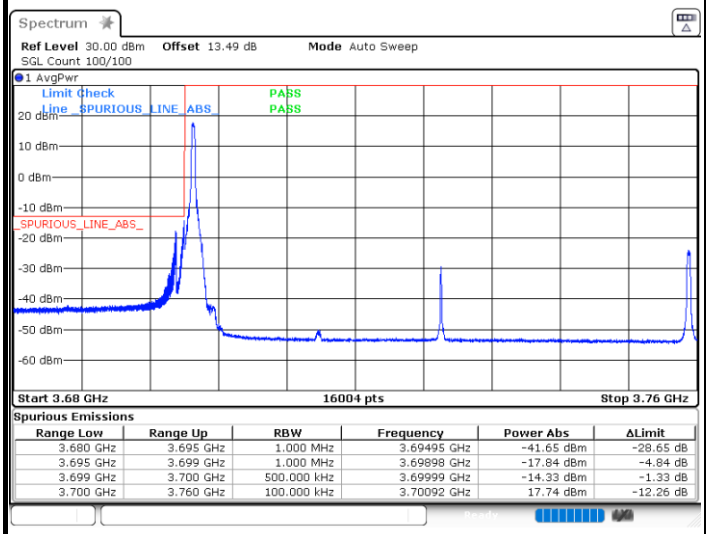
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.920 GHz	3.980 GHz	100.000 kHz	3.92943 GHz	0.17 dBm	-29.83 dB
3.980 GHz	3.981 GHz	1.000 MHz	3.98002 GHz	-23.16 dBm	-10.16 dB
3.981 GHz	3.985 GHz	1.000 MHz	3.98111 GHz	-24.49 dBm	-11.49 dB
3.985 GHz	4.000 GHz	1.000 MHz	3.98501 GHz	-29.20 dBm	-16.20 dB

Date: 28.OCT.2022 16:35:29

FR1 n77 / 60MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

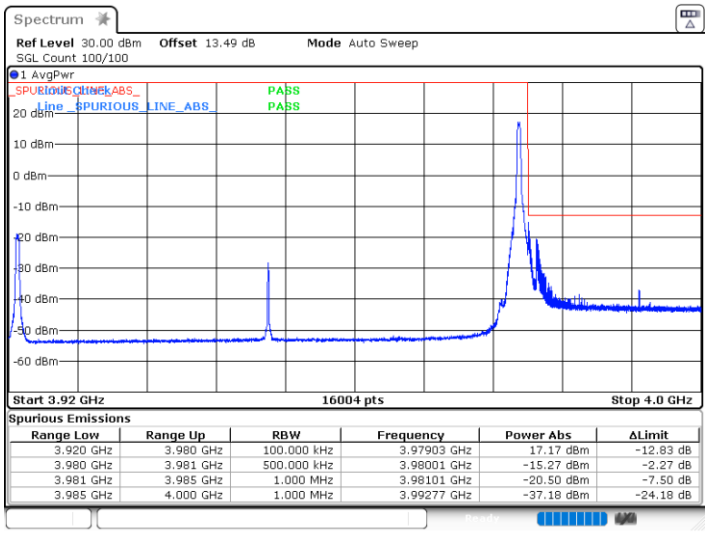


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.680 GHz	3.695 GHz	1.000 MHz	3.69495 GHz	-41.65 dBm	-28.65 dB
3.695 GHz	3.699 GHz	1.000 MHz	3.69898 GHz	-17.84 dBm	-4.84 dB
3.699 GHz	3.700 GHz	500.000 kHz	3.69999 GHz	-14.33 dBm	-1.33 dB
3.700 GHz	3.760 GHz	100.000 kHz	3.70092 GHz	17.74 dBm	-12.26 dB

Date: 28.OCT.2022 16:25:22

Highest Band Edge / 1RBmax

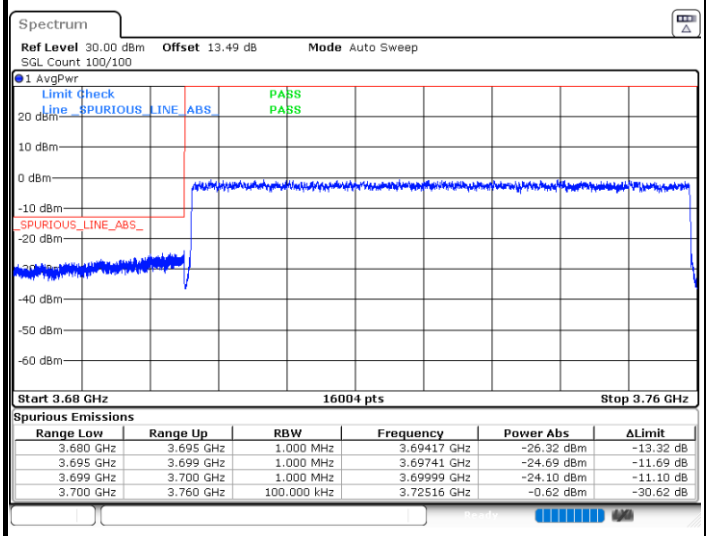


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.920 GHz	3.980 GHz	100.000 kHz	3.97903 GHz	17.17 dBm	-12.83 dB
3.980 GHz	3.981 GHz	500.000 kHz	3.98001 GHz	-15.27 dBm	-2.27 dB
3.981 GHz	3.985 GHz	1.000 MHz	3.98101 GHz	-20.50 dBm	-7.50 dB
3.985 GHz	4.000 GHz	1.000 MHz	3.99277 GHz	-37.18 dBm	-24.18 dB

Date: 28.OCT.2022 16:40:13

Lowest Band Edge / Full RB

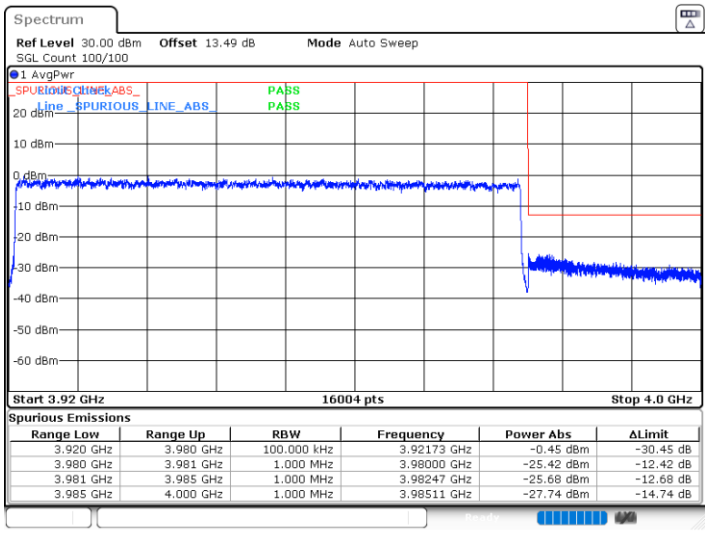


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.680 GHz	3.695 GHz	1.000 MHz	3.69417 GHz	-26.32 dBm	-13.32 dB
3.695 GHz	3.699 GHz	1.000 MHz	3.69741 GHz	-24.69 dBm	-11.69 dB
3.699 GHz	3.700 GHz	1.000 MHz	3.69999 GHz	-24.10 dBm	-11.10 dB
3.700 GHz	3.760 GHz	100.000 kHz	3.72516 GHz	-0.62 dBm	-30.62 dB

Date: 28.OCT.2022 16:31:43

Highest Band Edge / Full RB



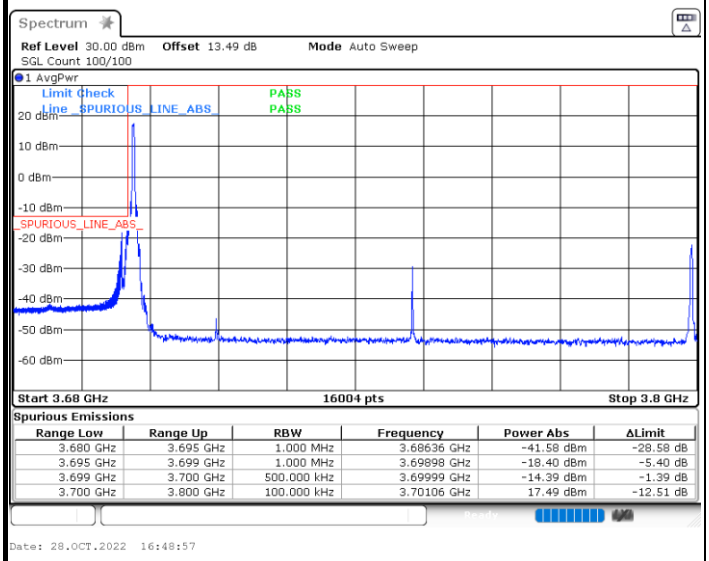
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.920 GHz	3.980 GHz	100.000 kHz	3.92173 GHz	-0.45 dBm	-30.45 dB
3.980 GHz	3.981 GHz	1.000 MHz	3.98000 GHz	-25.42 dBm	-12.42 dB
3.981 GHz	3.985 GHz	1.000 MHz	3.98247 GHz	-25.68 dBm	-12.68 dB
3.985 GHz	4.000 GHz	1.000 MHz	3.98511 GHz	-27.74 dBm	-14.74 dB

Date: 28.OCT.2022 16:36:20

FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

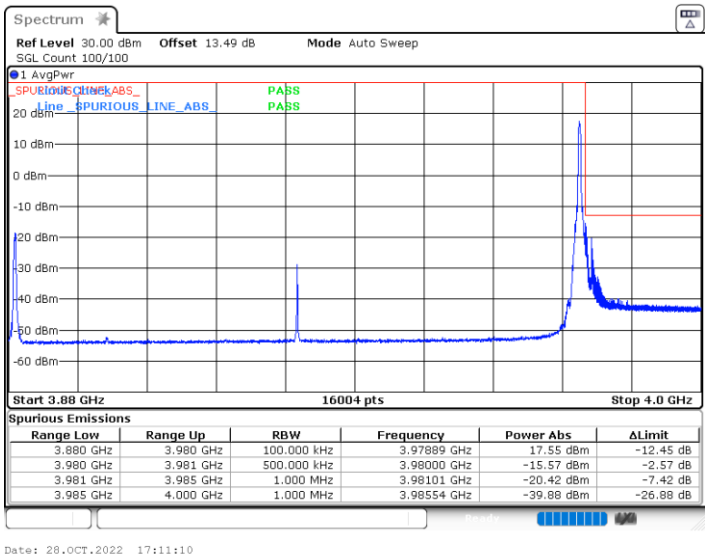


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.680 GHz	3.695 GHz	1.000 MHz	3.68636 GHz	-41.58 dBm	-28.58 dB
3.695 GHz	3.699 GHz	1.000 MHz	3.69898 GHz	-18.40 dBm	-5.40 dB
3.699 GHz	3.700 GHz	500.000 kHz	3.69999 GHz	-14.39 dBm	-1.39 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70106 GHz	17.49 dBm	-12.51 dB

Date: 28.OCT.2022 16:48:57

Highest Band Edge / 1RBmax

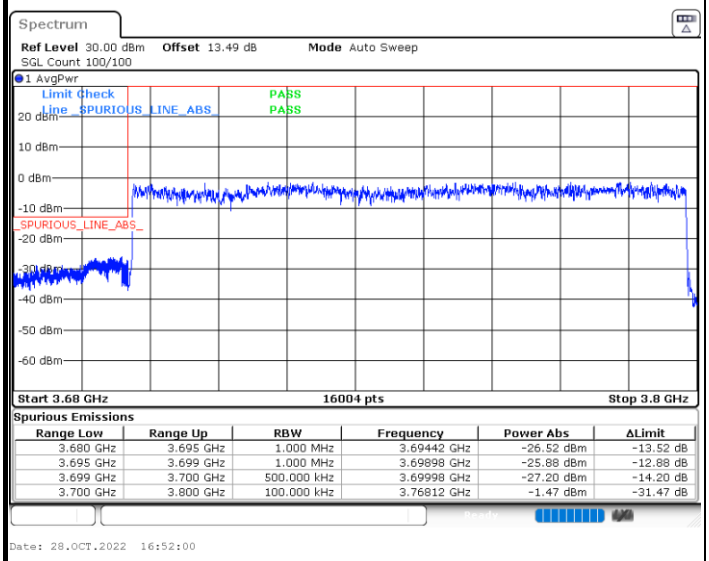


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97889 GHz	17.55 dBm	-12.45 dB
3.980 GHz	3.981 GHz	500.000 kHz	3.98000 GHz	-15.57 dBm	-2.57 dB
3.981 GHz	3.985 GHz	1.000 MHz	3.98101 GHz	-20.42 dBm	-7.42 dB
3.985 GHz	4.000 GHz	1.000 MHz	3.98554 GHz	-39.88 dBm	-26.88 dB

Date: 28.OCT.2022 17:11:10

Lowest Band Edge / Full RB

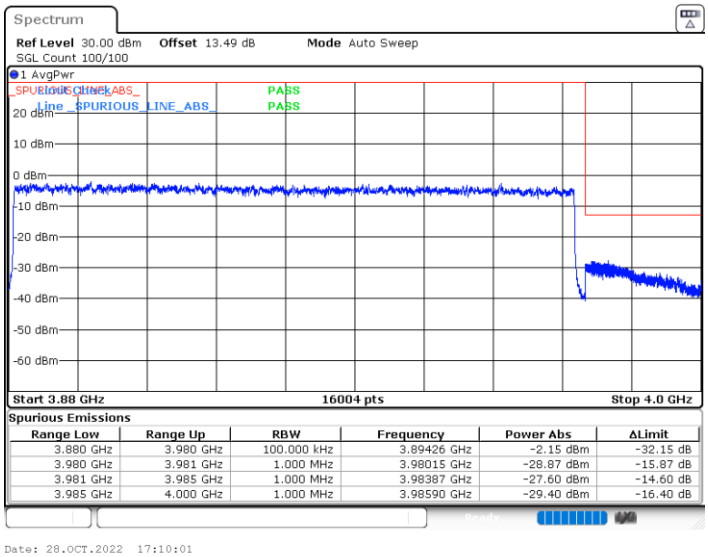


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.680 GHz	3.695 GHz	1.000 MHz	3.69442 GHz	-26.52 dBm	-13.52 dB
3.695 GHz	3.699 GHz	1.000 MHz	3.69898 GHz	-25.88 dBm	-12.88 dB
3.699 GHz	3.700 GHz	500.000 kHz	3.69998 GHz	-27.20 dBm	-14.20 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.76812 GHz	-1.47 dBm	-31.47 dB

Date: 28.OCT.2022 16:52:00

Highest Band Edge / Full RB



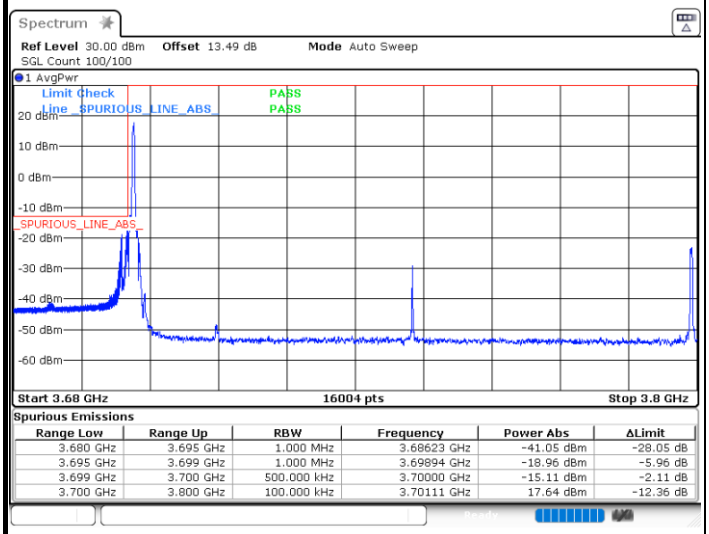
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.89426 GHz	-2.15 dBm	-32.15 dB
3.980 GHz	3.981 GHz	1.000 MHz	3.98015 GHz	-28.87 dBm	-15.87 dB
3.981 GHz	3.985 GHz	1.000 MHz	3.98387 GHz	-27.60 dBm	-14.60 dB
3.985 GHz	4.000 GHz	1.000 MHz	3.98590 GHz	-29.40 dBm	-16.40 dB

Date: 28.OCT.2022 17:10:01

FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

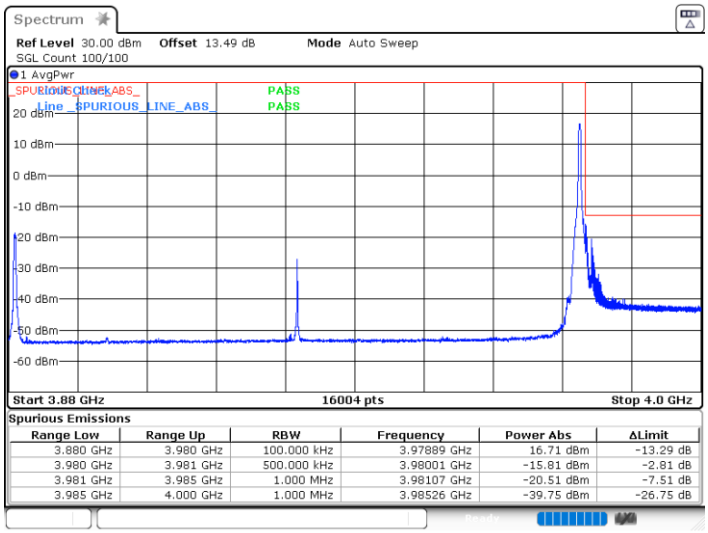


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.680 GHz	3.695 GHz	1.000 MHz	3.69623 GHz	-41.05 dBm	-28.05 dB
3.695 GHz	3.699 GHz	1.000 MHz	3.69894 GHz	-18.96 dBm	-5.96 dB
3.699 GHz	3.700 GHz	500.000 kHz	3.70000 GHz	-15.11 dBm	-2.11 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70111 GHz	17.64 dBm	-12.36 dB

Date: 28.OCT.2022 16:49:33

Highest Band Edge / 1RBmax

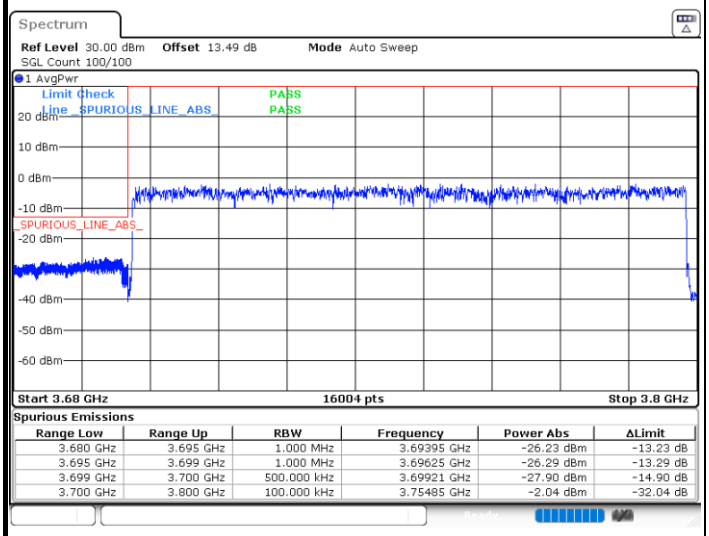


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97889 GHz	16.71 dBm	-13.29 dB
3.980 GHz	3.981 GHz	500.000 kHz	3.98001 GHz	-15.81 dBm	-2.81 dB
3.981 GHz	3.985 GHz	1.000 MHz	3.98107 GHz	-20.51 dBm	-7.51 dB
3.985 GHz	4.000 GHz	1.000 MHz	3.98526 GHz	-39.75 dBm	-26.75 dB

Date: 28.OCT.2022 17:13:05

Lowest Band Edge / Full RB

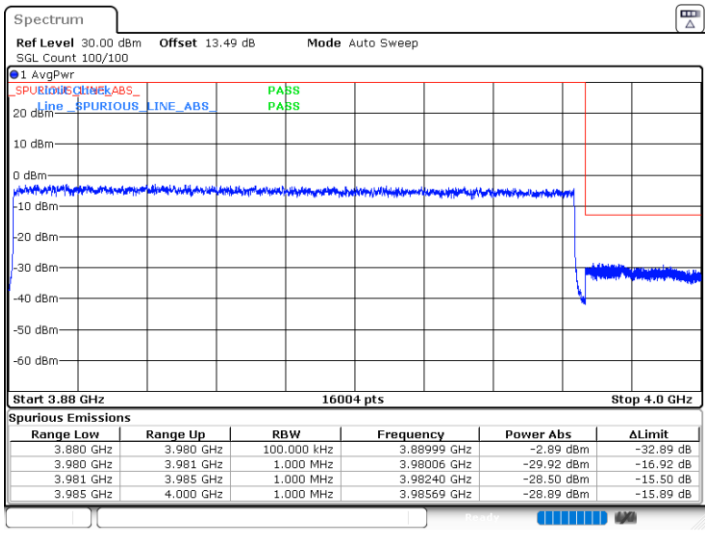


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.680 GHz	3.695 GHz	1.000 MHz	3.69395 GHz	-26.23 dBm	-13.23 dB
3.695 GHz	3.699 GHz	1.000 MHz	3.69625 GHz	-26.29 dBm	-13.29 dB
3.699 GHz	3.700 GHz	500.000 kHz	3.69921 GHz	-27.90 dBm	-14.90 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.75485 GHz	-2.04 dBm	-32.04 dB

Date: 28.OCT.2022 16:50:37

Highest Band Edge / Full RB



Spurious Emissions

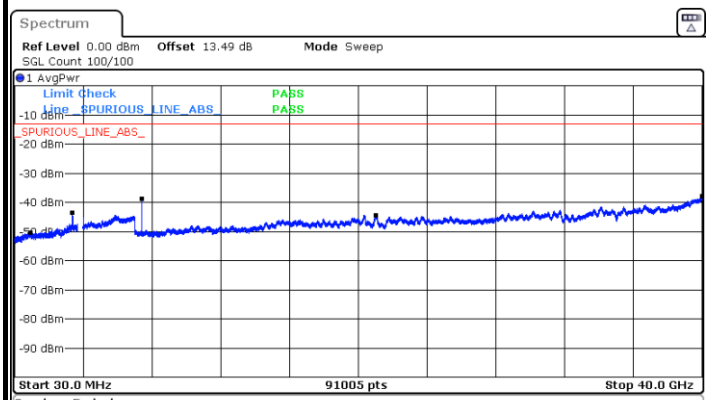
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.88999 GHz	-2.89 dBm	-32.89 dB
3.980 GHz	3.981 GHz	1.000 MHz	3.98006 GHz	-29.92 dBm	-16.92 dB
3.981 GHz	3.985 GHz	1.000 MHz	3.98240 GHz	-28.50 dBm	-15.50 dB
3.985 GHz	4.000 GHz	1.000 MHz	3.98569 GHz	-28.89 dBm	-15.89 dB

Date: 28.OCT.2022 17:08:23

Conducted Spurious Emission

FR1 n77 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

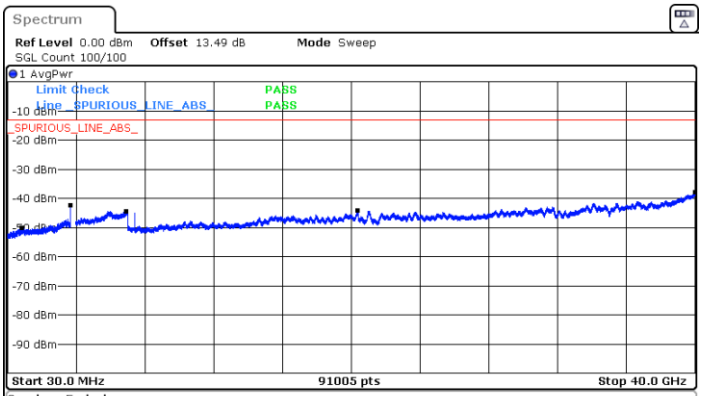


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	964.24019 MHz	-50.32 dBm	-37.32 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.39445 GHz	-43.44 dBm	-30.44 dB
4.000 GHz	10.000 GHz	1.000 MHz	7.40317 GHz	-38.81 dBm	-25.81 dB
10.000 GHz	25.000 GHz	1.000 MHz	21.01505 GHz	-44.46 dBm	-31.46 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.99367 GHz	-37.89 dBm	-24.89 dB

Date: 28.OCT.2022 16:04:43

Middle Channel / 1RB1

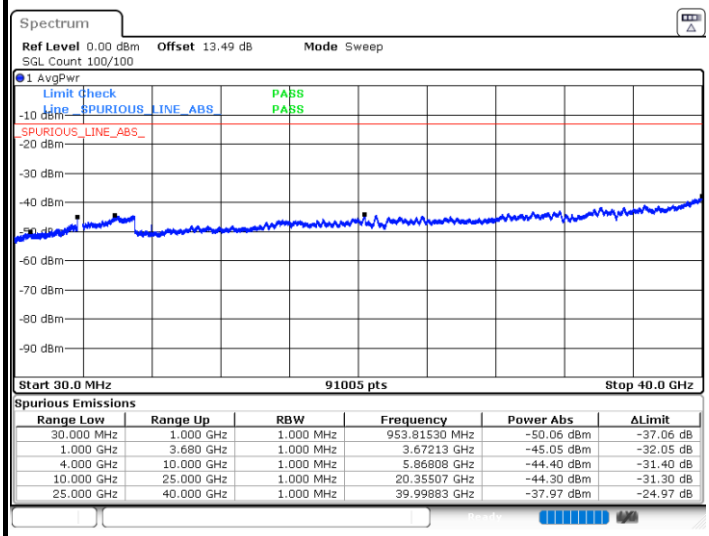


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	863.87028 MHz	-50.22 dBm	-37.22 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.67849 GHz	-42.29 dBm	-29.29 dB
4.000 GHz	10.000 GHz	1.000 MHz	6.93160 GHz	-44.41 dBm	-31.41 dB
10.000 GHz	25.000 GHz	1.000 MHz	20.36444 GHz	-44.29 dBm	-31.29 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.99039 GHz	-37.84 dBm	-24.84 dB

Date: 28.OCT.2022 16:07:51

Highest Channel / 1RB1



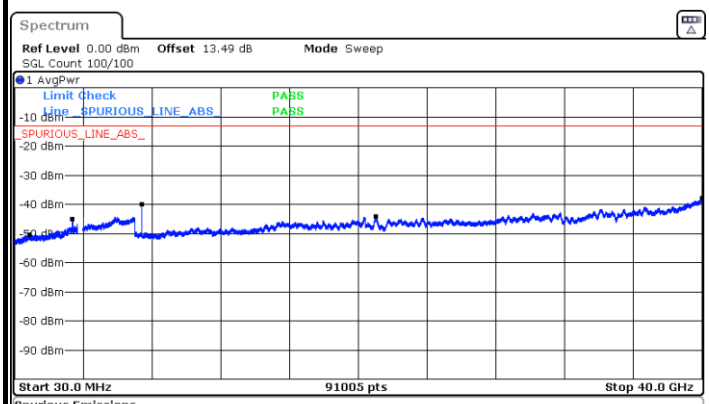
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	953.81530 MHz	-50.06 dBm	-37.06 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.67213 GHz	-45.05 dBm	-32.05 dB
4.000 GHz	10.000 GHz	1.000 MHz	5.86808 GHz	-44.40 dBm	-31.40 dB
10.000 GHz	25.000 GHz	1.000 MHz	20.35507 GHz	-44.30 dBm	-31.30 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.99883 GHz	-37.97 dBm	-24.97 dB

Date: 28.OCT.2022 16:18:51

FR1 n77 / 20MHz / DFT-S OFDM /QPSK

Lowest Channel / 1RB1

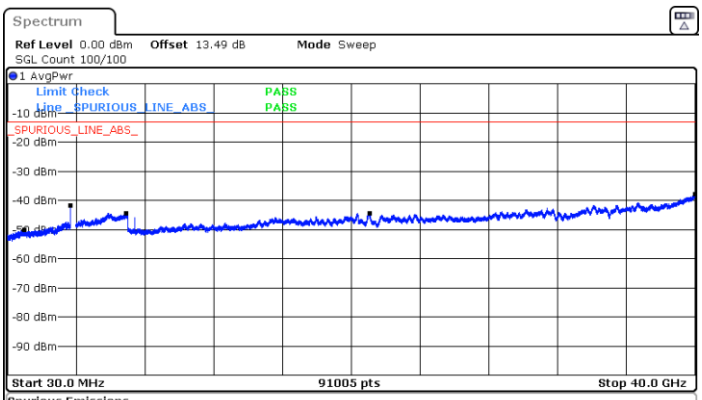


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	900.72107 MHz	-50.32 dBm	-37.32 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.39445 GHz	-45.13 dBm	-32.13 dB
4.000 GHz	10.000 GHz	1.000 MHz	7.40277 GHz	-40.04 dBm	-27.04 dB
10.000 GHz	25.000 GHz	1.000 MHz	21.04833 GHz	-44.13 dBm	-31.13 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.98852 GHz	-37.96 dBm	-24.96 dB

Date: 28.OCT.2022 16:03:35

Middle Channel / 1RB1

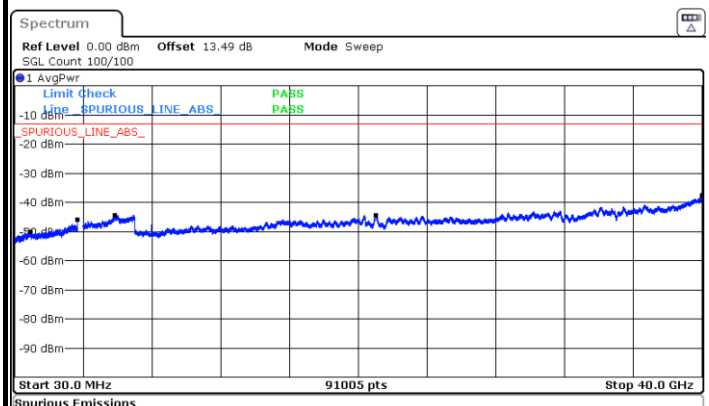


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	990.90852 MHz	-50.19 dBm	-37.19 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.67347 GHz	-41.67 dBm	-28.67 dB
4.000 GHz	10.000 GHz	1.000 MHz	6.91921 GHz	-44.42 dBm	-31.42 dB
10.000 GHz	25.000 GHz	1.000 MHz	21.06145 GHz	-44.36 dBm	-31.36 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.99320 GHz	-37.90 dBm	-24.90 dB

Date: 28.OCT.2022 16:09:28

Highest Channel / 1RB1



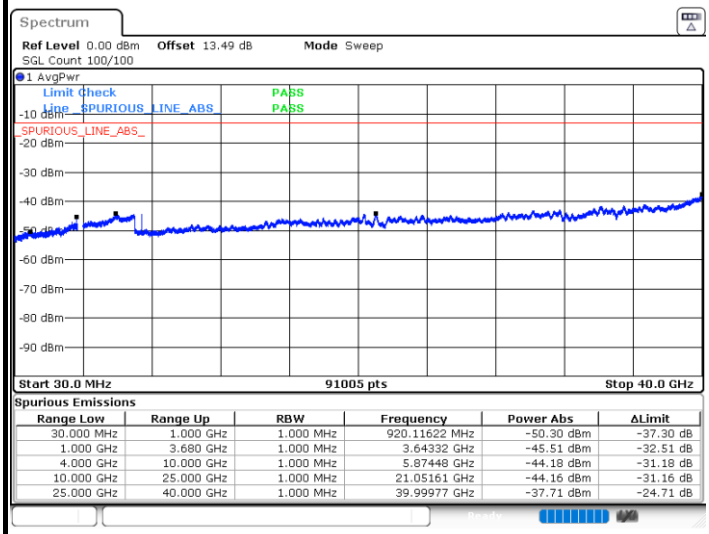
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	959.87628 MHz	-50.18 dBm	-37.18 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.67213 GHz	-45.90 dBm	-32.90 dB
4.000 GHz	10.000 GHz	1.000 MHz	5.87288 GHz	-44.41 dBm	-31.41 dB
10.000 GHz	25.000 GHz	1.000 MHz	21.04364 GHz	-44.38 dBm	-31.38 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.99414 GHz	-37.64 dBm	-24.64 dB

Date: 28.OCT.2022 16:17:35

FR1 n77 /60MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

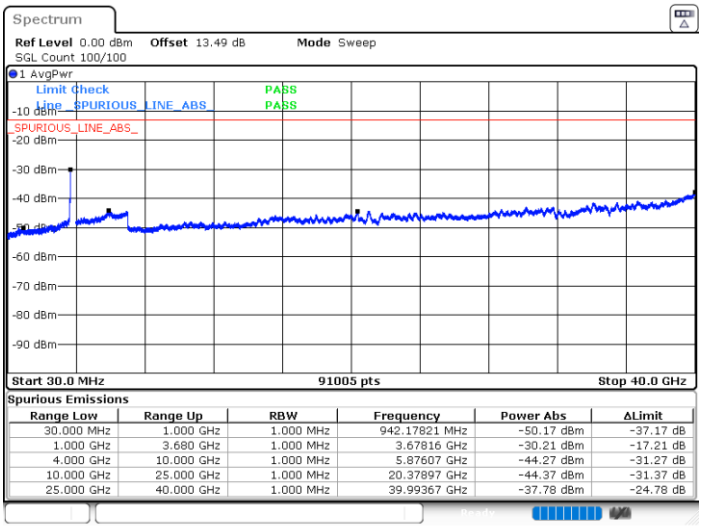


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	920.11622 MHz	-50.30 dBm	-37.30 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.64332 GHz	-45.51 dBm	-32.51 dB
4.000 GHz	10.000 GHz	1.000 MHz	5.87448 GHz	-44.18 dBm	-31.18 dB
10.000 GHz	25.000 GHz	1.000 MHz	21.05161 GHz	-44.16 dBm	-31.16 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.99977 GHz	-37.71 dBm	-24.71 dB

Date: 28.OCT.2022 16:28:11

Middle Channel / 1RB1

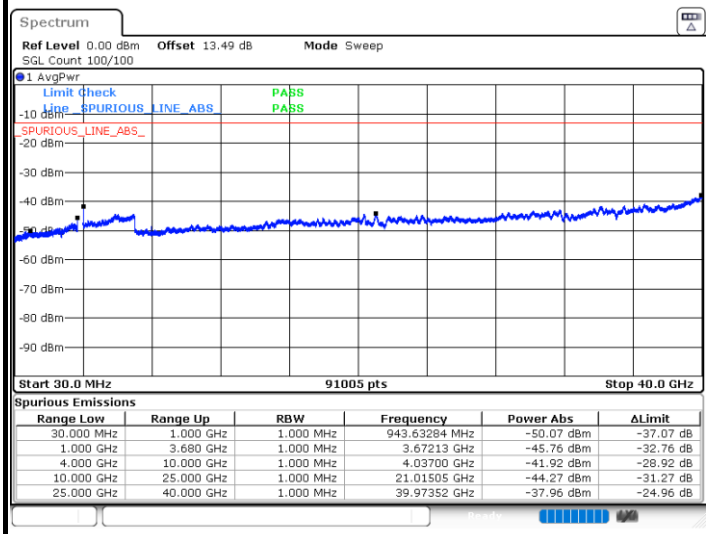


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	942.17821 MHz	-50.17 dBm	-37.17 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.67816 GHz	-30.21 dBm	-17.21 dB
4.000 GHz	10.000 GHz	1.000 MHz	5.87607 GHz	-44.27 dBm	-31.27 dB
10.000 GHz	25.000 GHz	1.000 MHz	20.37897 GHz	-44.37 dBm	-31.37 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.99367 GHz	-37.78 dBm	-24.78 dB

Date: 28.OCT.2022 16:34:07

Highest Channel / 1RB1



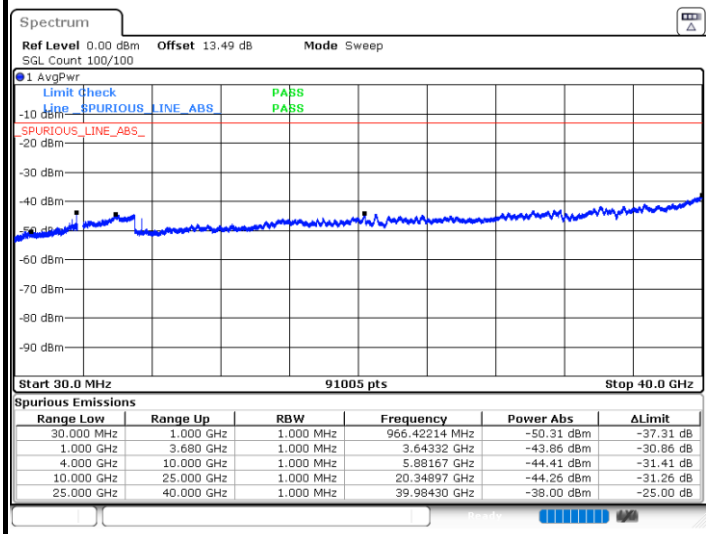
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	943.63284 MHz	-50.07 dBm	-37.07 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.67213 GHz	-45.76 dBm	-32.76 dB
4.000 GHz	10.000 GHz	1.000 MHz	4.03700 GHz	-41.92 dBm	-28.92 dB
10.000 GHz	25.000 GHz	1.000 MHz	21.01505 GHz	-44.27 dBm	-31.27 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.97352 GHz	-37.96 dBm	-24.96 dB

Date: 28.OCT.2022 16:43:06

FR1 n77 /60MHz / DFT-S OFDM /QPSK

Lowest Channel / 1RB1

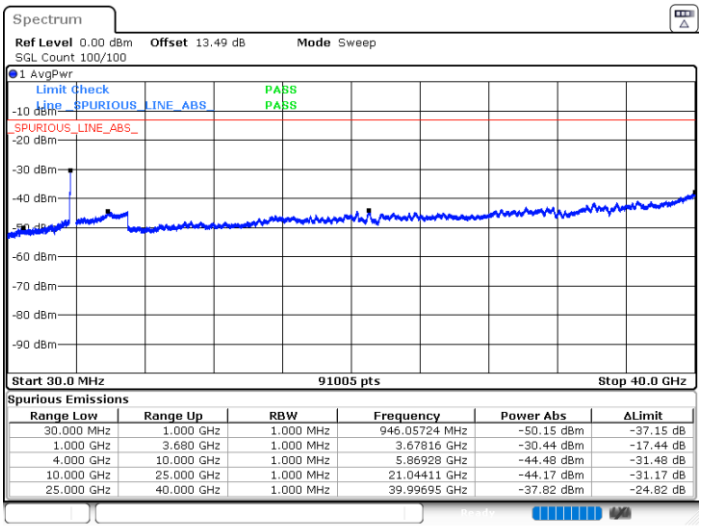


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	966.42214 MHz	-50.31 dBm	-37.31 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.64332 GHz	-43.86 dBm	-30.86 dB
4.000 GHz	10.000 GHz	1.000 MHz	5.88167 GHz	-44.41 dBm	-31.41 dB
10.000 GHz	25.000 GHz	1.000 MHz	20.34897 GHz	-44.26 dBm	-31.26 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.98430 GHz	-38.00 dBm	-25.00 dB

Date: 28.OCT.2022 16:26:33

Middle Channel / 1RB1

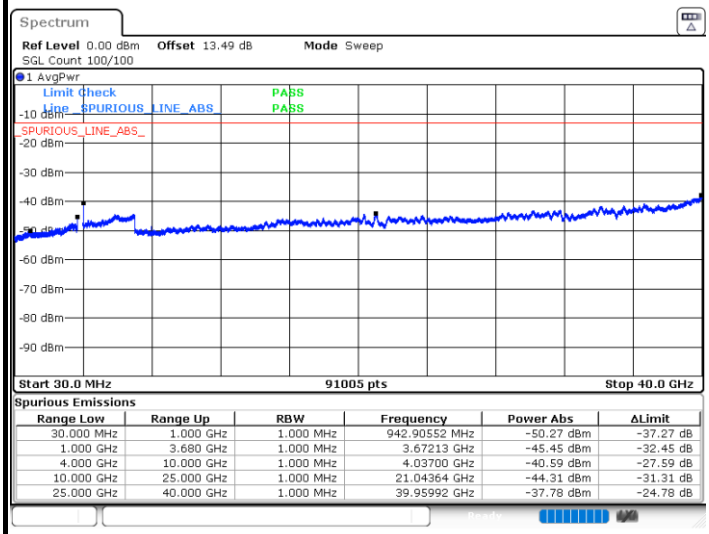


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	946.05724 MHz	-50.15 dBm	-37.15 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.67816 GHz	-30.44 dBm	-17.44 dB
4.000 GHz	10.000 GHz	1.000 MHz	5.86928 GHz	-44.48 dBm	-31.48 dB
10.000 GHz	25.000 GHz	1.000 MHz	21.04411 GHz	-44.17 dBm	-31.17 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.99695 GHz	-37.82 dBm	-24.82 dB

Date: 28.OCT.2022 16:32:56

Highest Channel / 1RB1



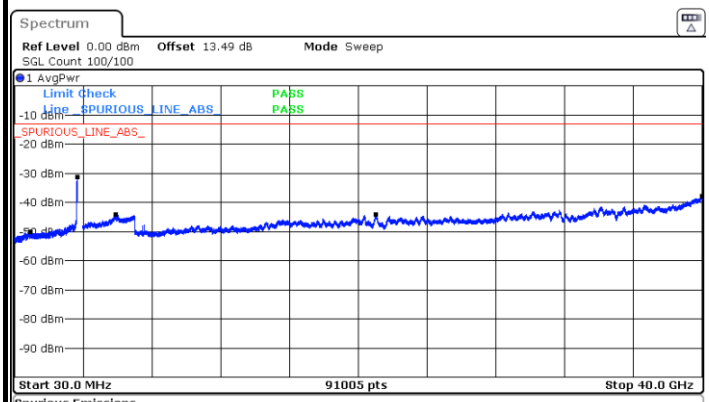
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	942.90552 MHz	-50.27 dBm	-37.27 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.67213 GHz	-45.45 dBm	-32.45 dB
4.000 GHz	10.000 GHz	1.000 MHz	4.03700 GHz	-40.59 dBm	-27.59 dB
10.000 GHz	25.000 GHz	1.000 MHz	21.04364 GHz	-44.31 dBm	-31.31 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.95992 GHz	-37.78 dBm	-24.78 dB

Date: 28.OCT.2022 16:45:08

FR1 n77 /100MHz / DFT-S OFDM /BPSK

Lowest Channel / 1RB1

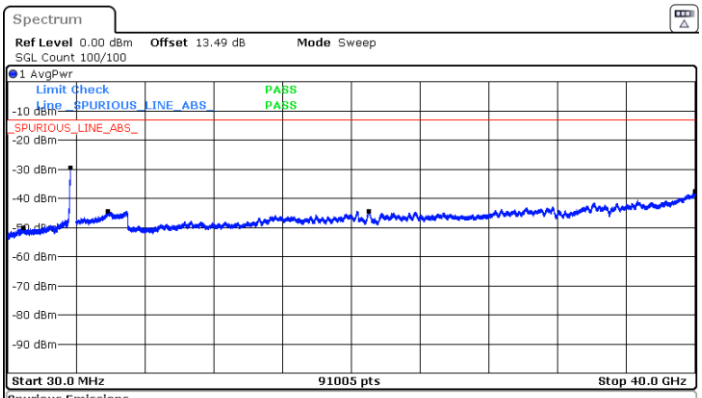


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	956.72457 MHz	-50.12 dBm	-37.12 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.65605 GHz	-31.36 dBm	-18.36 dB
4.000 GHz	10.000 GHz	1.000 MHz	5.87967 GHz	-44.19 dBm	-31.19 dB
10.000 GHz	25.000 GHz	1.000 MHz	21.04411 GHz	-44.26 dBm	-31.26 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.98570 GHz	-37.86 dBm	-24.86 dB

Date: 28.OCT.2022 16:53:18

Middle Channel / 1RB1

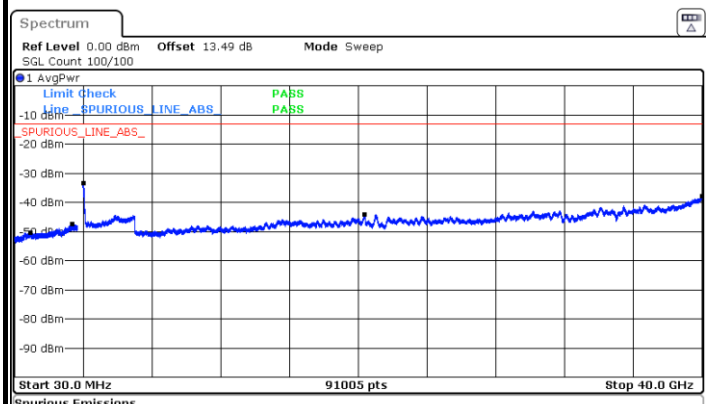


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	946.05724 MHz	-50.25 dBm	-37.25 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.67749 GHz	-29.41 dBm	-16.41 dB
4.000 GHz	10.000 GHz	1.000 MHz	5.86768 GHz	-44.43 dBm	-31.43 dB
10.000 GHz	25.000 GHz	1.000 MHz	21.03333 GHz	-44.38 dBm	-31.38 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.99414 GHz	-37.71 dBm	-24.71 dB

Date: 28.OCT.2022 16:59:59

Highest Channel / 1RB1



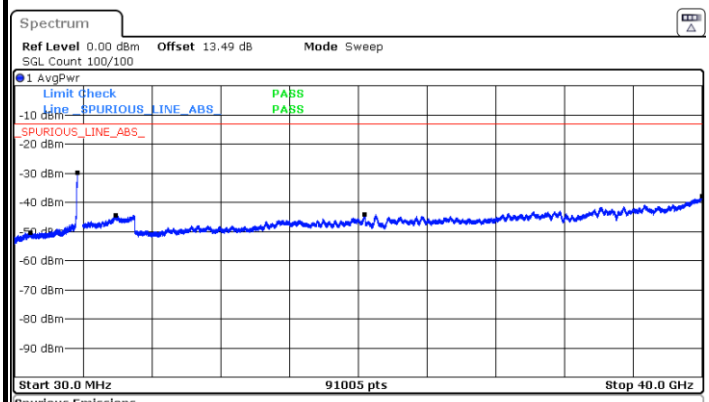
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	925.20745 MHz	-50.32 dBm	-37.32 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.34588 GHz	-47.49 dBm	-34.49 dB
4.000 GHz	10.000 GHz	1.000 MHz	4.00380 GHz	-33.38 dBm	-20.38 dB
10.000 GHz	25.000 GHz	1.000 MHz	20.36116 GHz	-44.16 dBm	-31.16 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.99883 GHz	-37.94 dBm	-24.94 dB

Date: 28.OCT.2022 17:02:20

FR1 n77 /100MHz / DFT-S OFDM /QPSK

Lowest Channel / 1RB1

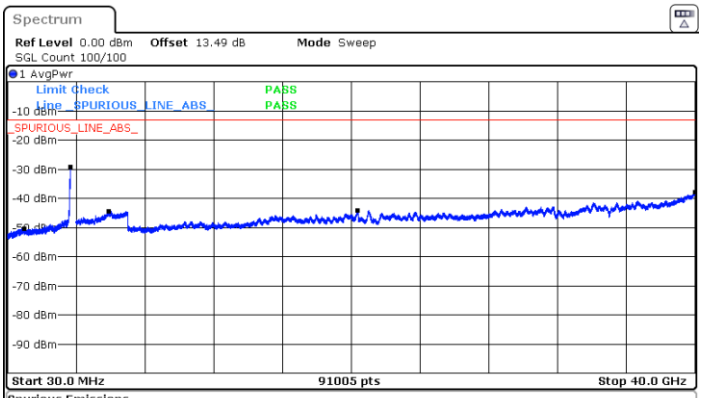


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	947.51187 MHz	-50.30 dBm	-37.30 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.67682 GHz	-29.94 dBm	-16.94 dB
4.000 GHz	10.000 GHz	1.000 MHz	5.89767 GHz	-44.37 dBm	-31.37 dB
10.000 GHz	25.000 GHz	1.000 MHz	20.35132 GHz	-44.28 dBm	-31.28 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.97680 GHz	-37.82 dBm	-24.82 dB

Date: 28.OCT.2022 16:54:48

Middle Channel / 1RB1

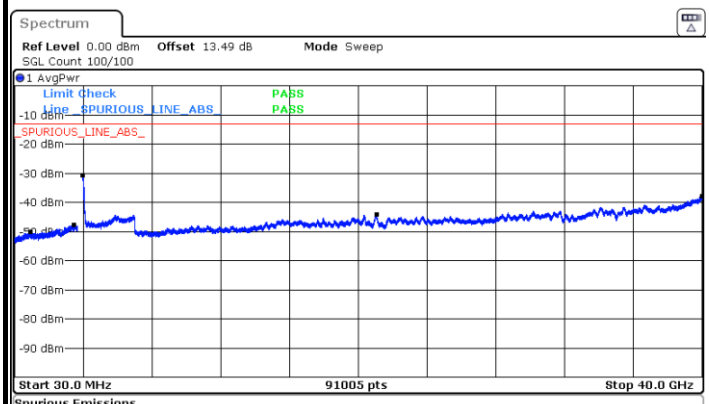


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	999.39390 MHz	-50.37 dBm	-37.37 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.67481 GHz	-29.37 dBm	-16.37 dB
4.000 GHz	10.000 GHz	1.000 MHz	5.87807 GHz	-44.53 dBm	-31.53 dB
10.000 GHz	25.000 GHz	1.000 MHz	20.34991 GHz	-44.25 dBm	-31.25 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.98242 GHz	-37.84 dBm	-24.84 dB

Date: 28.OCT.2022 16:57:18

Highest Channel / 1RB1



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	931.75331 MHz	-50.27 dBm	-37.27 dB
1.000 GHz	3.680 GHz	1.000 MHz	3.47517 GHz	-47.70 dBm	-34.70 dB
4.000 GHz	10.000 GHz	1.000 MHz	4.00140 GHz	-30.60 dBm	-17.60 dB
10.000 GHz	25.000 GHz	1.000 MHz	21.05395 GHz	-44.30 dBm	-31.30 dB
25.000 GHz	40.000 GHz	1.000 MHz	39.99414 GHz	-37.93 dBm	-24.93 dB

Date: 28.OCT.2022 17:06:29

Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0058	PASS
40	Normal Voltage	0.0034	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0038	
-20	Normal Voltage	0.0051	
-30	Normal Voltage	0.0040	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0029	
20	Battery End Point	0.0035	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Wen boXiao	Temperature :	22~25℃
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

SA n5 / NR 20MHz(ANT0) / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1654.5	-66.02	-13	-53.02	-75.51	-69.19	4.10	9.42	H
	2481.75	-61.37	-13	-48.37	-75.53	-64.95	4.90	10.63	H
	3309	-59.94	-13	-46.94	-76.32	-64.86	5.55	12.62	H
	1654.5	-65.75	-13	-52.75	-74.98	-68.92	4.10	9.42	V
	2481.75	-60.77	-13	-47.77	-74.90	-64.35	4.90	10.63	V
	3309	-58.94	-13	-45.94	-75.10	-63.86	5.55	12.62	V

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

EN-DC_7A_n5A / LTE 10MHz(ANT1) + NR 20MHz(ANT0) / QPSK									
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 Middle	1654.5	-65.81	-13	-52.81	-75.30	-68.98	4.10	9.42	H
	2481.75	-60.85	-13	-47.85	-75.01	-64.43	4.90	10.63	H
	3309	-60.42	-13	-47.42	-76.80	-65.34	5.55	12.62	H
	1654.5	-65.23	-13	-52.23	-74.46	-68.40	4.10	9.42	V
	2481.75	-60.68	-13	-47.68	-74.81	-64.26	4.90	10.63	V
	3309	-59.93	-13	-46.93	-76.09	-64.85	5.55	12.62	V
LTE Band7 Middle	5061.18	-57.94	-25	-32.94	-79.84	-63.50	7.14	12.70	H
	7591.77	-55.68	-25	-30.68	-81.76	-58.98	8.30	11.60	H
	10122.36	-52.79	-25	-27.79	-84.38	-54.31	10.48	12.00	H
	5061.18	-56.64	-25	-31.64	-78.68	-62.20	7.14	12.70	V
	7591.77	-55.49	-25	-30.49	-81.52	-58.79	8.30	11.60	V
	10122.36	-51.66	-25	-26.66	-81.88	-53.18	10.48	12.00	V

EN-DC_41A_n77A / LTE 10MHz(ANT1) + NR 100MHz(ANT5) / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n77 Middle	7582.9	-58.49	-13	-45.49	-57.69	-64.16	7.13	12.80	H
	11374.35	-52.77	-13	-39.77	-60.19	-55.87	8.50	11.60	H
	15165.8	-52.15	-13	-39.15	-62.83	-53.49	10.68	12.02	H
	7587.5	-58.57	-13	-45.57	-57.68	-64.24	7.13	12.80	V
	11374.35	-53.37	-13	-40.37	-60.52	-56.47	8.50	11.60	V
	15165.8	-53.02	-13	-40.02	-63.05	-54.36	10.68	12.02	V
LTE Band41 Middle	5177.18	-60.06	-25	-35.06	-81.62	-65.62	7.14	12.70	H
	7765.77	-58.34	-25	-33.34	-57.81	-61.64	8.30	11.60	H
	10354.36	-54.83	-25	-29.83	-58.95	-56.35	10.48	12.00	H
	5177.18	-59.44	-25	-34.44	-81.29	-65.00	7.14	12.70	V
	7765.77	-58.51	-25	-33.51	-57.82	-61.81	8.30	11.60	V
	10354.36	-55.66	-25	-30.66	-58.91	-57.18	10.48	12.00	V

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

SA n78 / NR 100MHz(ANT5) / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7402.5	-57.76	-13	-44.76	-57.36	-63.43	7.13	12.80	H
	11103.75	-52.92	-13	-39.92	-59.23	-56.02	8.50	11.60	H
	14805	-49.25	-13	-36.25	-60.23	-50.59	10.68	12.02	H
	7402.5	-57.68	-13	-44.68	-57.3	-63.35	7.13	12.80	V
	11103.75	-53.03	-13	-40.03	-59.05	-56.13	8.50	11.60	V
	14805	-49.81	-13	-36.81	-60.24	-51.15	10.68	12.02	V

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

EN-DC_5A_n78A / LTE 10MHz(ANT0) + NR 100MHz(ANT5) / QPSK									
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n78 Middle	7402.5	-58.08	-13	-45.08	-57.68	-63.75	7.13	12.80	H
	11103.75	-53.24	-13	-40.24	-59.55	-56.34	8.50	11.60	H
	14805	-50.53	-13	-37.53	-61.51	-51.87	10.68	12.02	H
	7402.5	-57.88	-13	-44.88	-57.5	-63.55	7.13	12.80	V
	11103.75	-53.35	-13	-40.35	-59.37	-56.45	8.50	11.60	V
	14805	-51.18	-13	-38.18	-61.61	-52.52	10.68	12.02	V
LTE Band5 Middle	1664.18	-66.11	-13	-53.11	-75.61	-69.36	4.00	9.40	H
	2496.27	-63.08	-13	-50.08	-77.28	-66.65	4.88	10.60	H
	3328.36	-59.52	-13	-46.52	-75.73	-64.45	5.52	12.60	H
	1664.18	-67.01	-13	-54.01	-76.11	-70.26	4.00	9.40	V
	2496.27	-63.47	-13	-50.47	-77.63	-67.04	4.88	10.60	V
	3328.36	-59.58	-13	-46.58	-75.55	-64.51	5.52	12.60	V

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

EN-DC_7A_n78A / LTE 10MHz(ANT5) + NR 100MHz(ANT5) / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n78 Middle	7401	-57.69	-13	-44.69	-57.29	-63.36	7.13	12.80	H
	11101.5	-54.70	-13	-41.70	-61.01	-57.80	8.50	11.60	H
	14802	-54.34	-13	-41.34	-65.32	-55.68	10.68	12.02	H
	7401	-57.72	-13	-44.72	-57.34	-63.39	7.13	12.80	V
	11101.5	-52.42	-13	-39.42	-58.44	-55.52	8.50	11.60	V
	14802	-53.97	-13	-40.97	-64.4	-55.31	10.68	12.02	V
LTE Band7 Middle	5061.18	-59.26	-25	-34.26	-81.16	-64.82	7.14	12.70	H
	7591.77	-58.78	-25	-33.78	-57.94	-62.08	8.30	11.60	H
	10122.36	-56.14	-25	-31.14	-60.02	-57.66	10.48	12.00	H
	5061.18	-59.38	-25	-34.38	-81.42	-64.94	7.14	12.70	V
	7591.77	-58.63	-25	-33.63	-57.74	-61.93	8.30	11.60	V
	10122.36	-55.03	-25	-30.03	-57.54	-56.55	10.48	12.00	V

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

EN-DC_41A_n78A / LTE 10MHz(ANT1) + NR 100MHz(ANT5) / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n78 Middle	7401	-57.57	-13	-44.57	-65.98	-63.24	7.13	12.80	H
	11101.5	-54.14	-13	-41.14	-67.98	-57.24	8.50	11.60	H
	14802	-54.16	-13	-41.16	-69.78	-55.50	10.68	12.02	H
	7401	-57.71	-13	-44.71	-66.09	-63.38	7.13	12.80	V
	11101.5	-52.61	-13	-39.61	-68.38	-55.71	8.50	11.60	V
	14802	-53.72	-13	-40.72	-69.62	-55.06	10.68	12.02	V
LTE Band41 Middle	5177.18	-59.71	-25	-34.71	-54.36	-65.27	7.14	12.70	H
	7765.77	-57.29	-25	-32.29	-64.84	-60.59	8.30	11.60	H
	10354.36	-56.21	-25	-31.21	-67.96	-57.73	10.48	12.00	H
	5177.18	-59.56	-25	-34.56	-54.5	-65.12	7.14	12.70	V
	7765.77	-53.71	-25	-28.71	-64.69	-57.01	8.30	11.60	V
	10354.36	-54.16	-25	-29.16	-67.71	-55.68	10.48	12.00	V

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