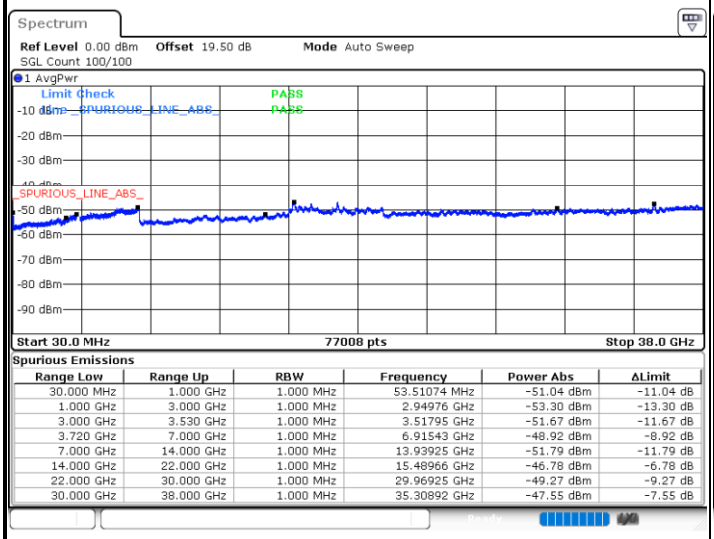
LTE Band 48C / 20MHz+15MHz

64QAM

Middle Channel / 1RB0 and 1RB74

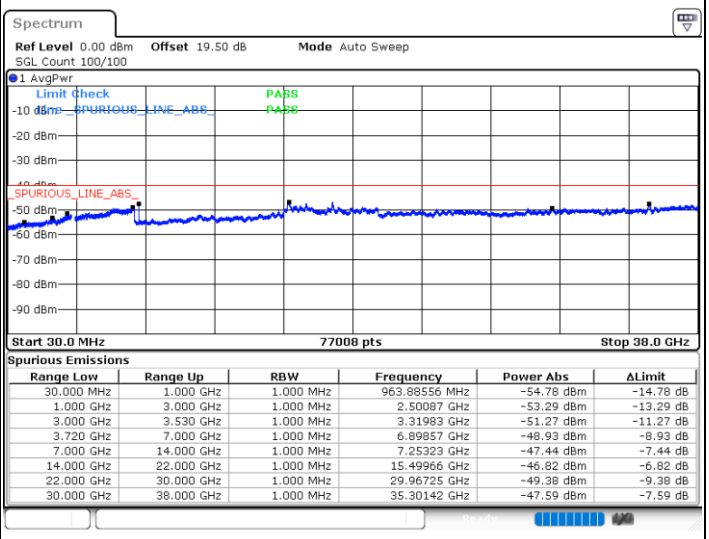


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	53.51074 MHz	-51.04 dBm	-11.04 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.94976 GHz	-53.30 dBm	-13.30 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.51795 GHz	-51.67 dBm	-11.67 dB
3.720 GHz	7.000 GHz	1.000 MHz	6.91543 GHz	-48.92 dBm	-8.92 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.93925 GHz	-51.79 dBm	-11.79 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.48966 GHz	-46.78 dBm	-6.78 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.96925 GHz	-49.27 dBm	-9.27 dB
30.000 GHz	38.000 GHz	1.000 MHz	35.30892 GHz	-47.55 dBm	-7.55 dB

Date: 18.DEC.2021 04:57:35

Middle Channel / 1RB99 and 1RB0

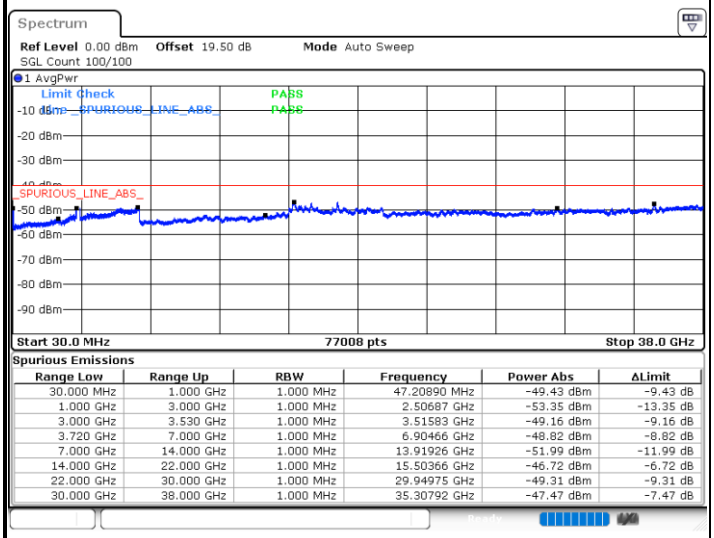


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	963.88556 MHz	-54.78 dBm	-14.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50087 GHz	-53.29 dBm	-13.29 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.31983 GHz	-51.27 dBm	-11.27 dB
3.720 GHz	7.000 GHz	1.000 MHz	6.89857 GHz	-48.93 dBm	-8.93 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.25323 GHz	-47.44 dBm	-7.44 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.49966 GHz	-46.82 dBm	-6.82 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.96725 GHz	-49.38 dBm	-9.38 dB
30.000 GHz	38.000 GHz	1.000 MHz	35.30142 GHz	-47.59 dBm	-7.59 dB

Date: 18.DEC.2021 05:09:04

Middle Channel / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	47.20890 MHz	-49.43 dBm	-9.43 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50687 GHz	-53.35 dBm	-13.35 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.51583 GHz	-49.16 dBm	-9.16 dB
3.720 GHz	7.000 GHz	1.000 MHz	6.90466 GHz	-48.82 dBm	-8.82 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.91926 GHz	-51.99 dBm	-11.99 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50366 GHz	-46.72 dBm	-6.72 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.94975 GHz	-49.31 dBm	-9.31 dB
30.000 GHz	38.000 GHz	1.000 MHz	35.30792 GHz	-47.47 dBm	-7.47 dB

Date: 18.DEC.2021 04:55:46

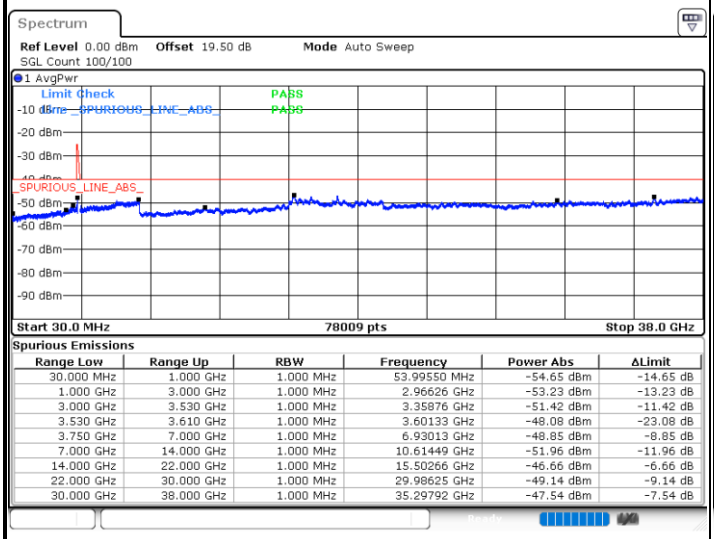
N/A

Blank

LTE Band 48C / 20MHz+15MHz

64QAM

Highest Channel / 1RB0 and 1RB74

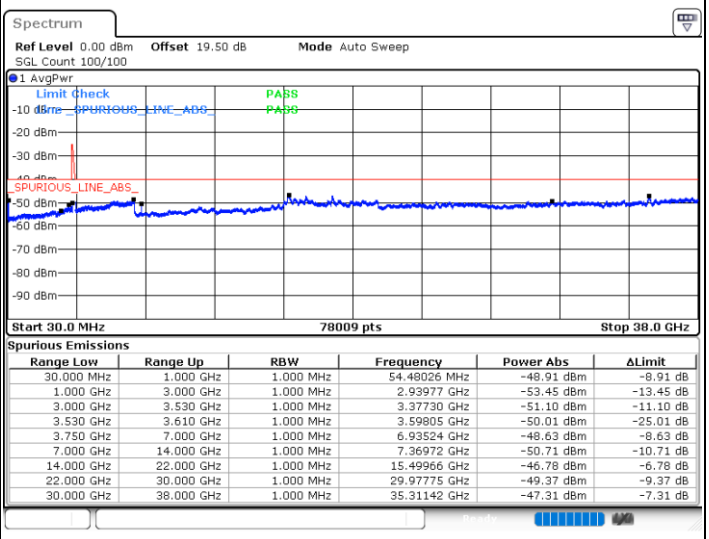


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	53.99550 MHz	-54.65 dBm	-14.65 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96626 GHz	-53.23 dBm	-13.23 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.35876 GHz	-51.42 dBm	-11.42 dB
3.530 GHz	3.610 GHz	1.000 MHz	3.60133 GHz	-48.08 dBm	-23.08 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.93013 GHz	-48.85 dBm	-8.85 dB
7.000 GHz	14.000 GHz	1.000 MHz	10.61449 GHz	-51.96 dBm	-11.96 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50266 GHz	-46.66 dBm	-6.66 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.98625 GHz	-49.14 dBm	-9.14 dB
30.000 GHz	38.000 GHz	1.000 MHz	35.29792 GHz	-47.54 dBm	-7.54 dB

Date: 18.DEC.2021 05:34:08

Highest Channel / 1RB99 and 1RB0

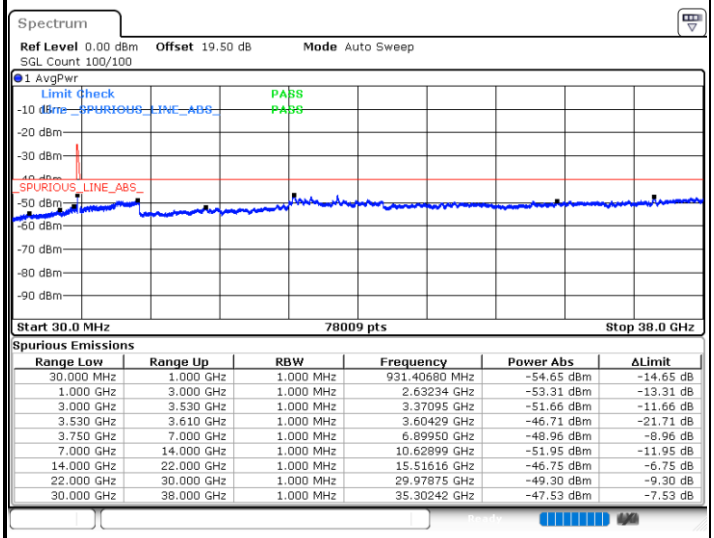


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	54.48026 MHz	-48.91 dBm	-8.91 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.93977 GHz	-53.45 dBm	-13.45 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.37730 GHz	-51.10 dBm	-11.10 dB
3.530 GHz	3.610 GHz	1.000 MHz	3.59805 GHz	-50.01 dBm	-25.01 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.93524 GHz	-48.63 dBm	-8.63 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.36972 GHz	-50.71 dBm	-10.71 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.49966 GHz	-46.78 dBm	-6.78 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.97775 GHz	-49.37 dBm	-9.37 dB
30.000 GHz	38.000 GHz	1.000 MHz	35.31142 GHz	-47.31 dBm	-7.31 dB

Date: 18.DEC.2021 05:32:18

Highest Channel / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	931.40680 MHz	-54.65 dBm	-14.65 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63234 GHz	-53.31 dBm	-13.31 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.37095 GHz	-51.66 dBm	-11.66 dB
3.530 GHz	3.610 GHz	1.000 MHz	3.60429 GHz	-46.71 dBm	-21.71 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.89950 GHz	-48.96 dBm	-8.96 dB
7.000 GHz	14.000 GHz	1.000 MHz	10.62899 GHz	-51.95 dBm	-11.95 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.51616 GHz	-46.75 dBm	-6.75 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.97875 GHz	-49.30 dBm	-9.30 dB
30.000 GHz	38.000 GHz	1.000 MHz	35.30242 GHz	-47.53 dBm	-7.53 dB

Date: 18.DEC.2021 05:43:15

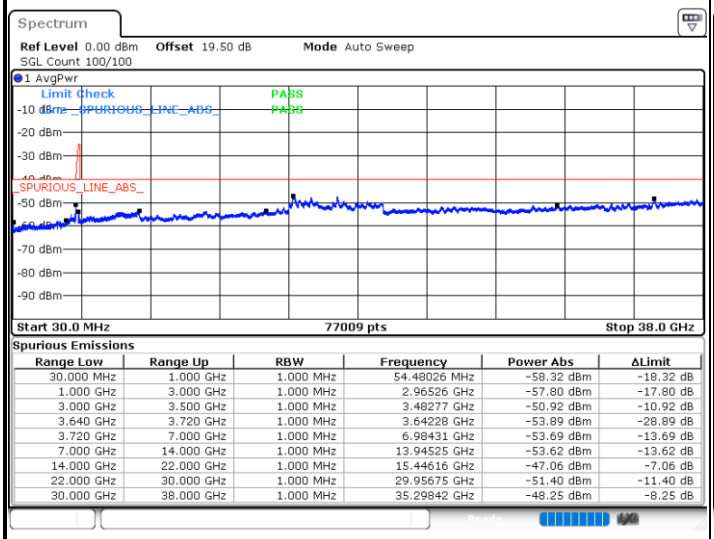
N/A

Blank

LTE Band 48C / 20MHz+20MHz

64QAM

Lowest Channel / 1RB0 and 1RB99

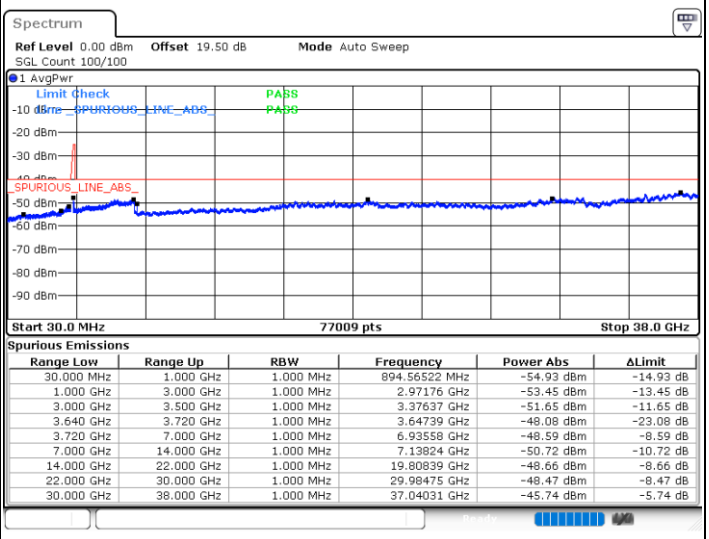


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	54.48026 MHz	-58.32 dBm	-18.32 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96526 GHz	-57.80 dBm	-17.80 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.48277 GHz	-50.92 dBm	-10.92 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64228 GHz	-53.89 dBm	-28.89 dB
3.720 GHz	7.000 GHz	1.000 MHz	6.98431 GHz	-53.69 dBm	-13.69 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.94525 GHz	-53.62 dBm	-13.62 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.44616 GHz	-47.06 dBm	-7.06 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.95675 GHz	-51.40 dBm	-11.40 dB
30.000 GHz	38.000 GHz	1.000 MHz	35.29842 GHz	-48.25 dBm	-8.25 dB

Date: 18.DEC.2021 08:56:38

Lowest Channel / 1RB99 and 1RB0

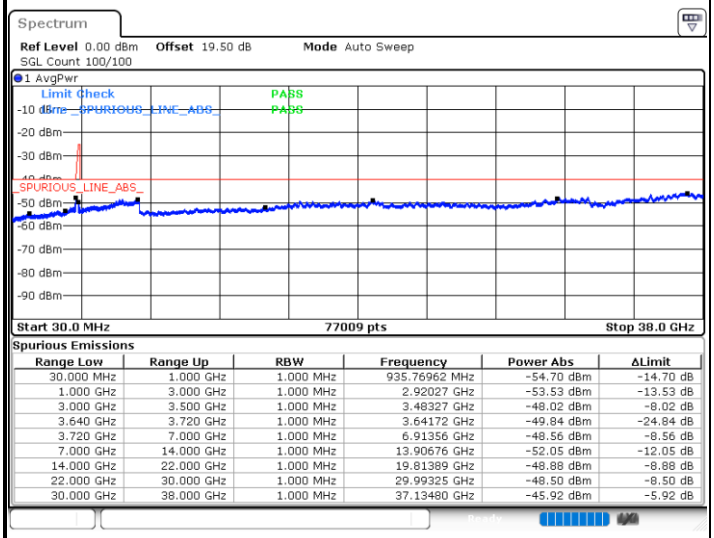


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	894.56522 MHz	-54.93 dBm	-14.93 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97176 GHz	-53.45 dBm	-13.45 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.37637 GHz	-51.65 dBm	-11.65 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64739 GHz	-48.08 dBm	-23.08 dB
3.720 GHz	7.000 GHz	1.000 MHz	6.93558 GHz	-48.59 dBm	-8.59 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.13824 GHz	-50.72 dBm	-10.72 dB
14.000 GHz	22.000 GHz	1.000 MHz	19.80839 GHz	-48.66 dBm	-8.66 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.98475 GHz	-48.47 dBm	-8.47 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.04031 GHz	-45.74 dBm	-5.74 dB

Date: 18.DEC.2021 09:30:54

Lowest Channel / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	935.76962 MHz	-54.70 dBm	-14.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.92027 GHz	-53.53 dBm	-13.53 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.48327 GHz	-48.02 dBm	-8.02 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64172 GHz	-49.84 dBm	-24.84 dB
3.720 GHz	7.000 GHz	1.000 MHz	6.91356 GHz	-48.56 dBm	-8.56 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.90676 GHz	-52.05 dBm	-12.05 dB
14.000 GHz	22.000 GHz	1.000 MHz	19.81389 GHz	-48.88 dBm	-8.88 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.99325 GHz	-48.50 dBm	-8.50 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.13480 GHz	-45.92 dBm	-5.92 dB

Date: 18.DEC.2021 09:33:11

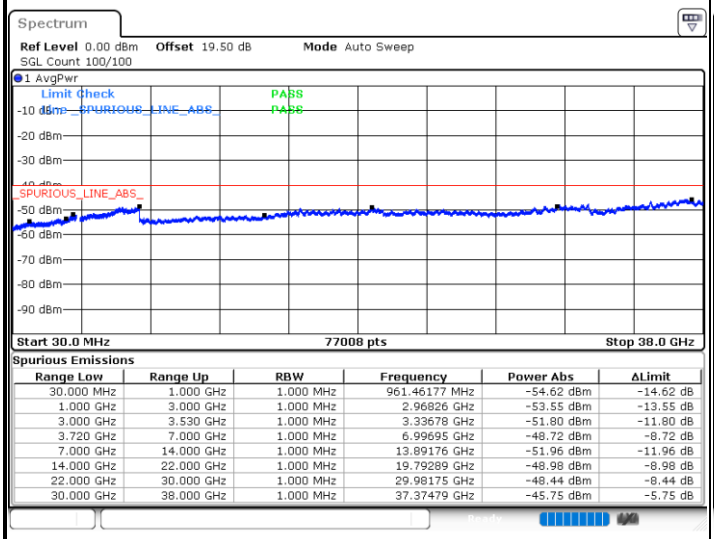
N/A

Blank

LTE Band 48C / 20MHz+20MHz

64QAM

MiddleChannel / 1RB0 and 1RB99

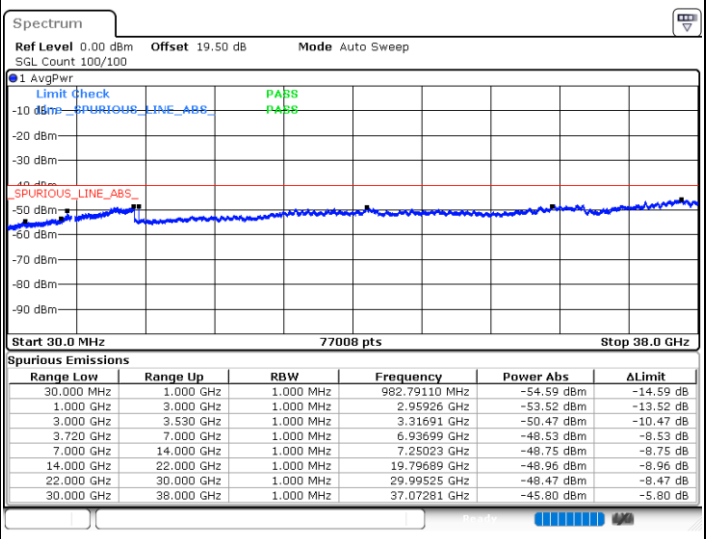


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	961.46177 MHz	-54.62 dBm	-14.62 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96826 GHz	-53.55 dBm	-13.55 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.33678 GHz	-51.80 dBm	-11.80 dB
3.720 GHz	7.000 GHz	1.000 MHz	6.99695 GHz	-48.72 dBm	-8.72 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.89176 GHz	-51.96 dBm	-11.96 dB
14.000 GHz	22.000 GHz	1.000 MHz	19.79289 GHz	-48.98 dBm	-8.98 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.98175 GHz	-48.44 dBm	-8.44 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.37479 GHz	-45.75 dBm	-5.75 dB

Date: 18.DEC.2021 10:06:16

Middle Channel / 1RB99 and 1RB0

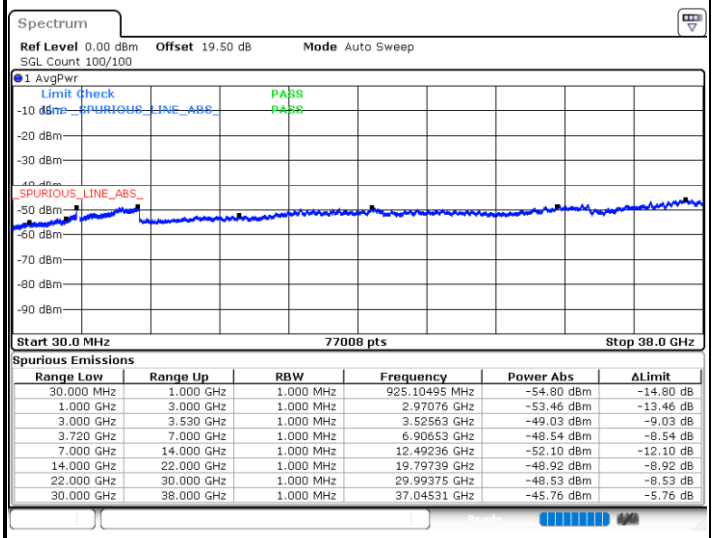


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	982.79110 MHz	-54.59 dBm	-14.59 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95926 GHz	-53.52 dBm	-13.52 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.31691 GHz	-50.47 dBm	-10.47 dB
3.720 GHz	7.000 GHz	1.000 MHz	6.93699 GHz	-48.53 dBm	-8.53 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.25023 GHz	-48.75 dBm	-8.75 dB
14.000 GHz	22.000 GHz	1.000 MHz	19.79689 GHz	-48.96 dBm	-8.96 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.99525 GHz	-48.47 dBm	-8.47 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.07281 GHz	-45.80 dBm	-5.80 dB

Date: 18.DEC.2021 10:15:29

Middle Channel / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	925.10495 MHz	-54.80 dBm	-14.80 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97076 GHz	-53.46 dBm	-13.46 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.52563 GHz	-49.03 dBm	-9.03 dB
3.720 GHz	7.000 GHz	1.000 MHz	6.90653 GHz	-48.54 dBm	-8.54 dB
7.000 GHz	14.000 GHz	1.000 MHz	12.49236 GHz	-52.10 dBm	-12.10 dB
14.000 GHz	22.000 GHz	1.000 MHz	19.79739 GHz	-48.92 dBm	-8.92 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.99375 GHz	-48.53 dBm	-8.53 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.04531 GHz	-45.76 dBm	-5.76 dB

Date: 18.DEC.2021 10:04:25

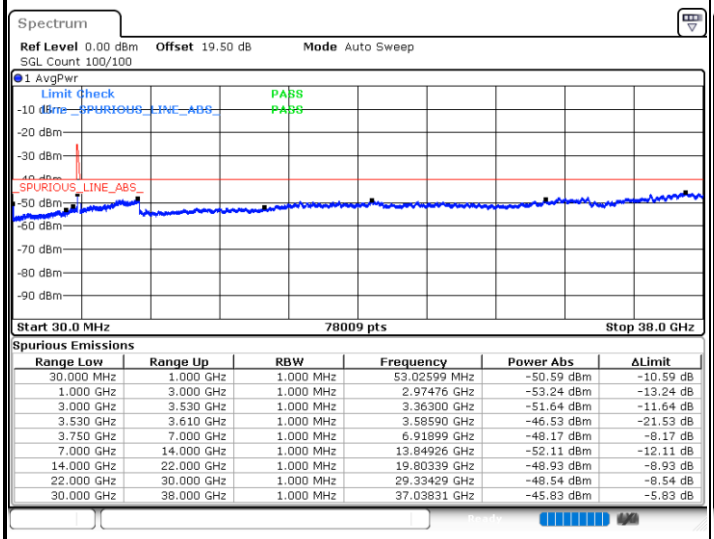
N/A

Blank

LTE Band 48C / 20MHz+20MHz

64QAM

Highest Channel / 1RB0 and 1RB99

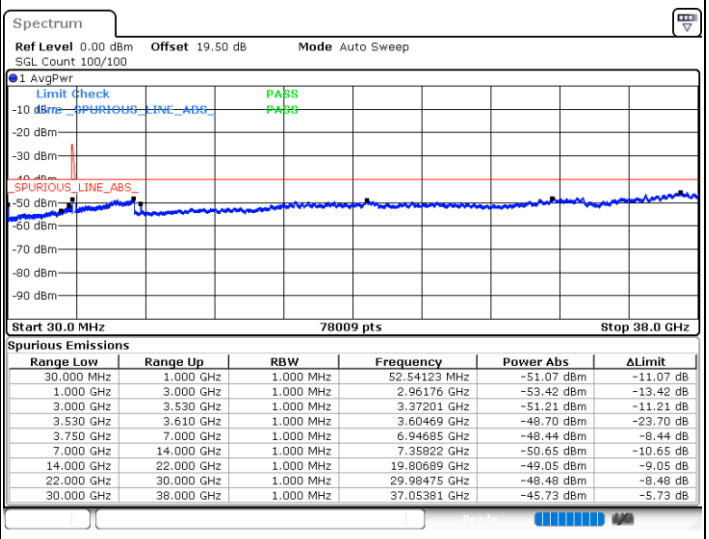


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	53.02599 MHz	-50.59 dBm	-10.59 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97476 GHz	-53.24 dBm	-13.24 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.36300 GHz	-51.64 dBm	-11.64 dB
3.530 GHz	3.610 GHz	1.000 MHz	3.58590 GHz	-46.53 dBm	-21.53 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.91899 GHz	-48.17 dBm	-8.17 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.84926 GHz	-52.11 dBm	-12.11 dB
14.000 GHz	22.000 GHz	1.000 MHz	19.80339 GHz	-48.93 dBm	-8.93 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.33429 GHz	-48.54 dBm	-8.54 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.03831 GHz	-45.83 dBm	-5.83 dB

Date: 18.DEC.2021 11:12:23

Highest Channel / 1RB99 and 1RB0

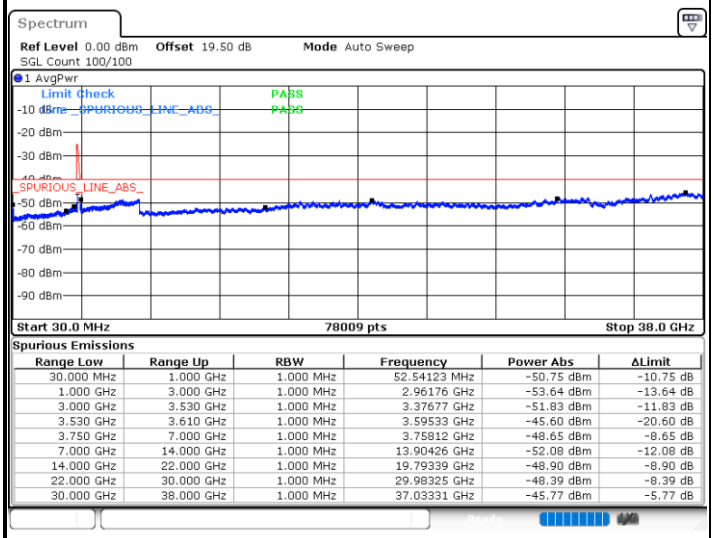


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	52.54123 MHz	-51.07 dBm	-11.07 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96176 GHz	-53.42 dBm	-13.42 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.37201 GHz	-51.21 dBm	-11.21 dB
3.530 GHz	3.610 GHz	1.000 MHz	3.60469 GHz	-48.70 dBm	-23.70 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.94685 GHz	-48.44 dBm	-8.44 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.35822 GHz	-50.65 dBm	-10.65 dB
14.000 GHz	22.000 GHz	1.000 MHz	19.80689 GHz	-49.05 dBm	-9.05 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.98475 GHz	-48.48 dBm	-8.48 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.05381 GHz	-45.73 dBm	-5.73 dB

Date: 18.DEC.2021 11:10:34

Highest Channel / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	52.54123 MHz	-50.75 dBm	-10.75 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96176 GHz	-53.64 dBm	-13.64 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.37677 GHz	-51.83 dBm	-11.83 dB
3.530 GHz	3.610 GHz	1.000 MHz	3.59533 GHz	-45.60 dBm	-20.60 dB
3.750 GHz	7.000 GHz	1.000 MHz	3.75812 GHz	-48.65 dBm	-8.65 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.90426 GHz	-52.08 dBm	-12.08 dB
14.000 GHz	22.000 GHz	1.000 MHz	19.79339 GHz	-48.90 dBm	-8.90 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.98325 GHz	-48.39 dBm	-8.39 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.03331 GHz	-45.77 dBm	-5.77 dB

Date: 18.DEC.2021 11:21:32

N/A

Blank

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	KuangJia/WenBo Xiao	Temperature :	22~25℃
		Relative Humidity :	48~52%

LTE Band 48 / 20MHz / 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	7332.00	-57.48	-40	-17.48	-65.72	-60.78	8.30	11.60	H
	10998.00	-54.02	-40	-14.02	-67.81	-55.54	10.48	12.00	H
	14664.00	-54.33	-40	-14.33	-69.44	-56.03	11.80	13.50	H
	7332.00	-56.51	-40	-16.51	-65.5	-59.81	8.30	11.60	V
	10998.00	-53.26	-40	-13.26	-67.81	-54.78	10.48	12.00	V
	14664.00	-54.25	-40	-14.25	-69.34	-55.95	11.80	13.50	V

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

LTE Band 48C_CA / 10MHz + 20MHz / 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	7250.00	-57.07	-40	-17.07	-65.09	-60.37	8.30	11.60	H
	10875.00	-54.46	-40	-14.46	-67.79	-55.98	10.48	12.00	H
	14500.00	-54.81	-40	-14.81	-69.28	-56.51	11.80	13.50	H
	7250.00	-55.99	-40	-15.99	-65.55	-59.29	8.30	11.60	V
	10875.00	-52.77	-40	-12.77	-67.75	-54.29	10.48	12.00	V
	14500.00	-55.52	-40	-15.52	-69.60	-57.22	11.80	13.50	V

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