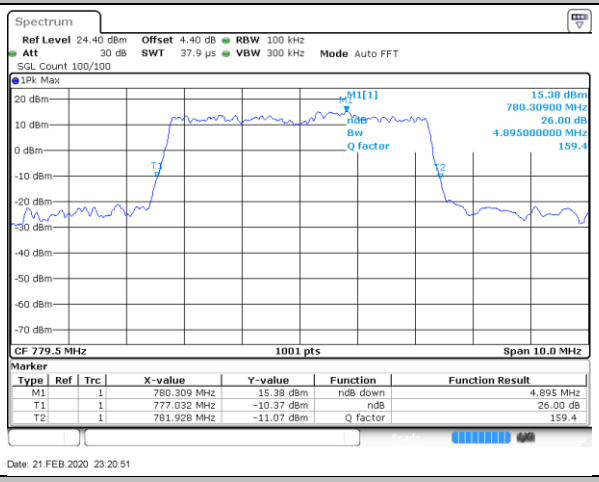
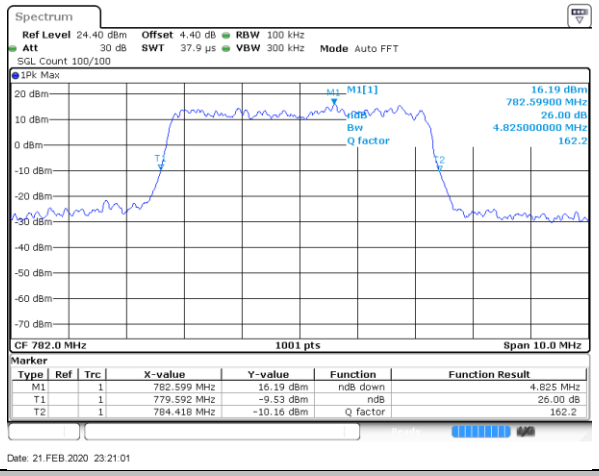
LTE Band 13

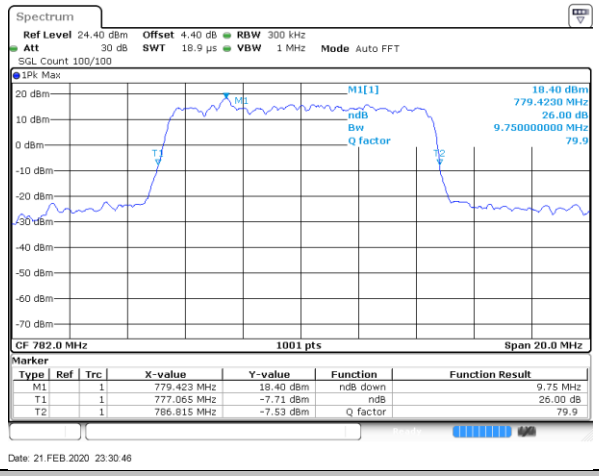
Lowest Channel / 5MHz / 64QAM



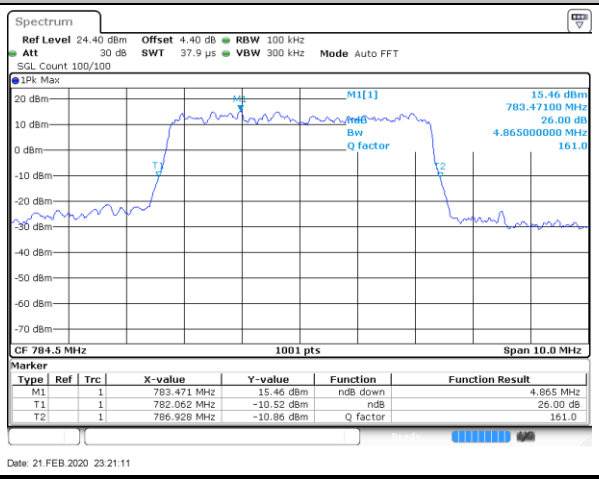
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

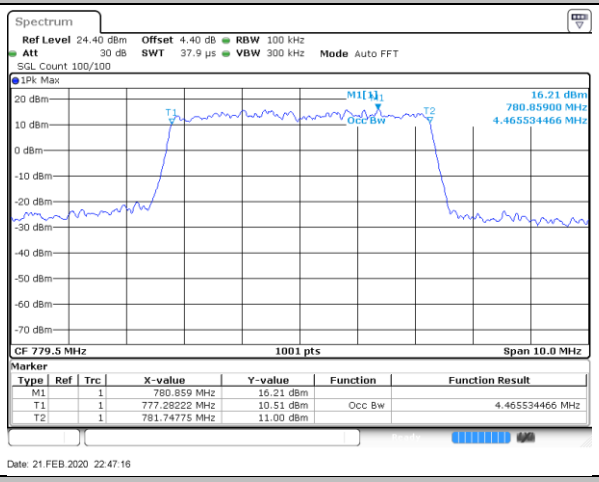


Occupied Bandwidth

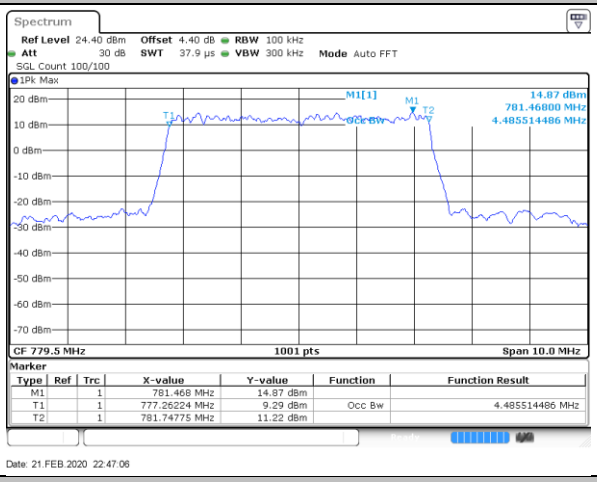
Mode	LTE Band 13 : 99%OBW(MHz)			
BW	5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.466	4.486	-	-
Middle CH	4.476	4.486	9.031	9.051
Highest CH	4.496	4.476	-	-
Mode	LTE Band 13 : 99%OBW(MHz)			
BW	5MHz		10MHz	
Mod.	64QAM		64QAM	
Lowest CH	4.476		-	
Middle CH	4.486		9.051	
Highest CH	4.486		-	

LTE Band 13

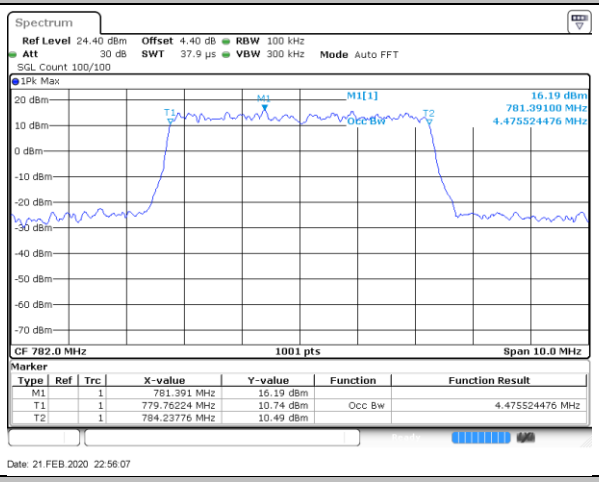
Lowest Channel / 5MHz / QPSK



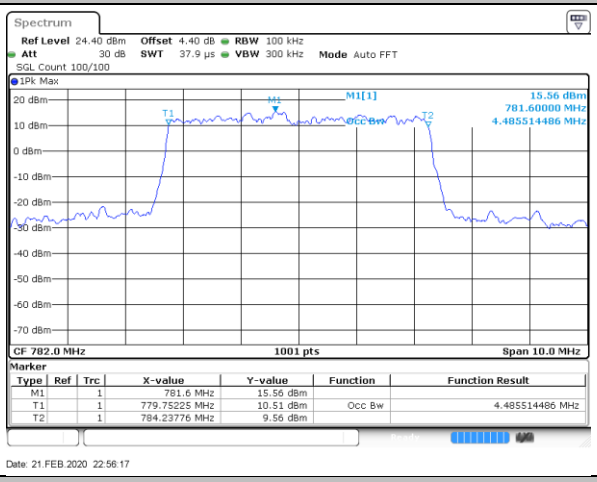
Lowest Channel / 5MHz / 16QAM



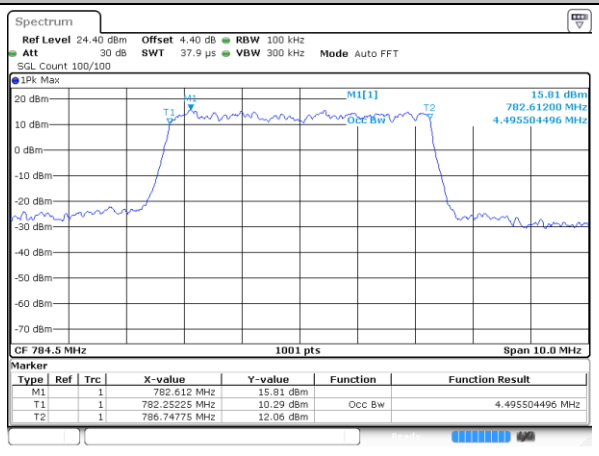
Middle Channel / 5MHz / QPSK



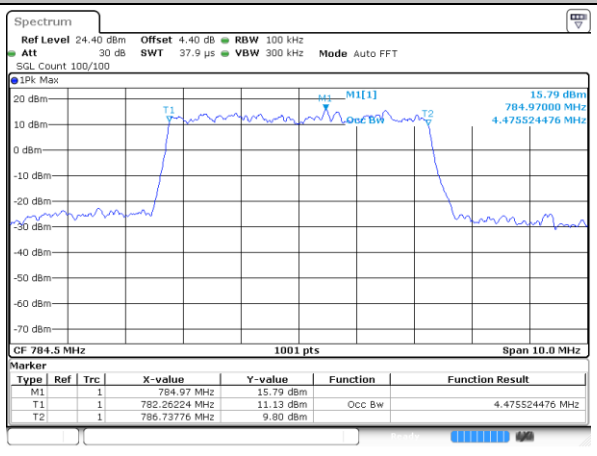
Middle Channel / 5MHz / 16QAM

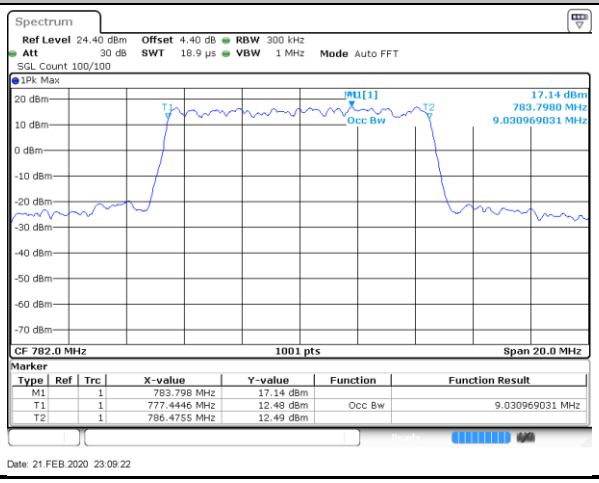
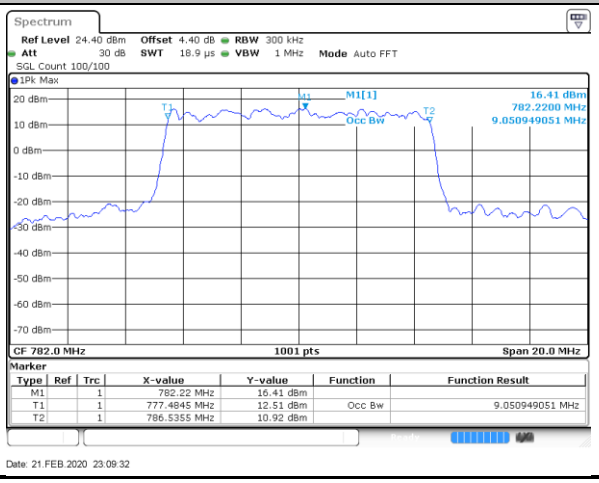


Highest Channel / 5MHz / QPSK



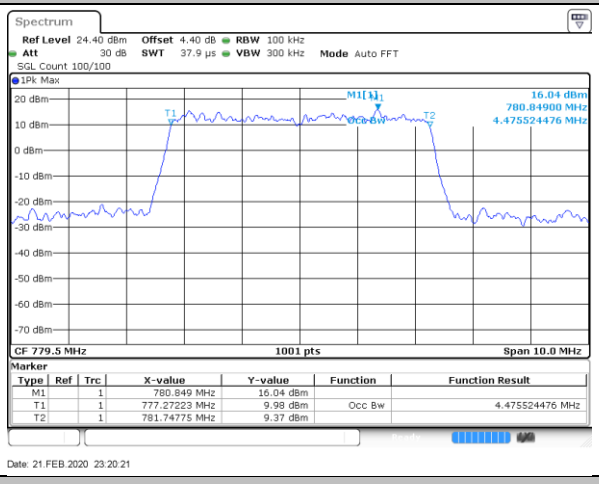
Highest Channel / 5MHz / 16QAM



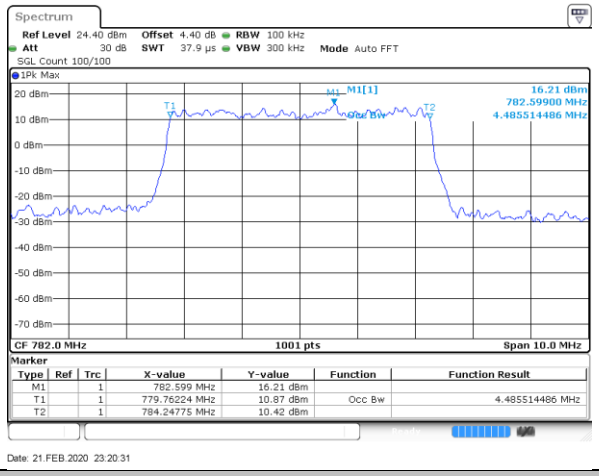
LTE Band 13	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

LTE Band 13

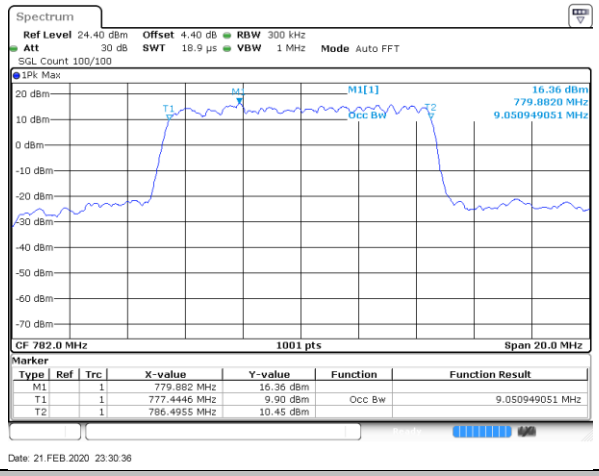
Lowest Channel / 5MHz / 64QAM



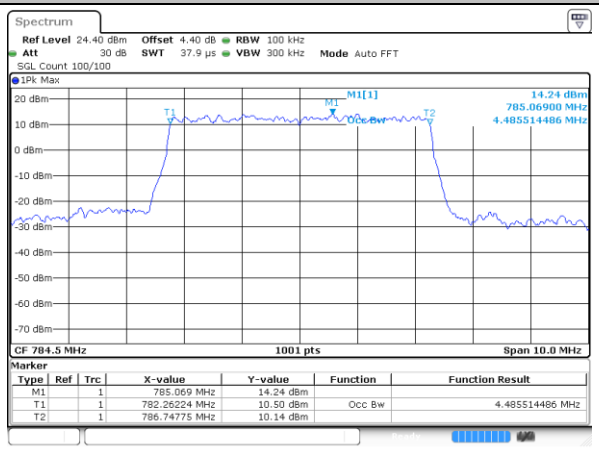
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



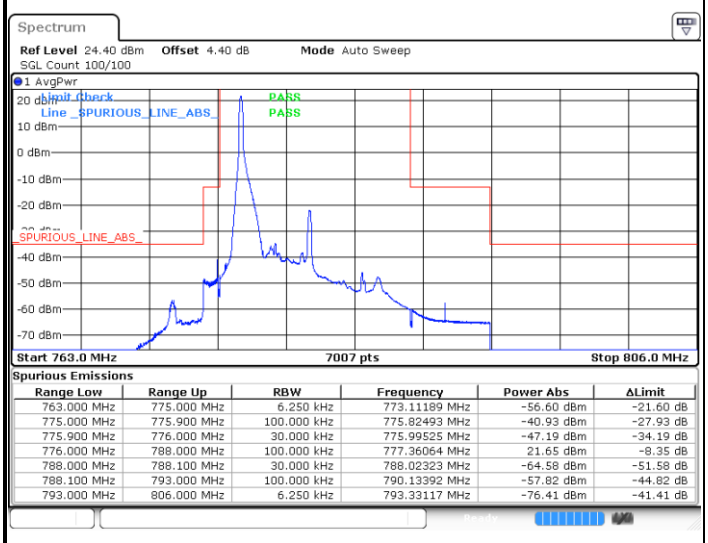
Highest Channel / 5MHz / 64QAM



Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

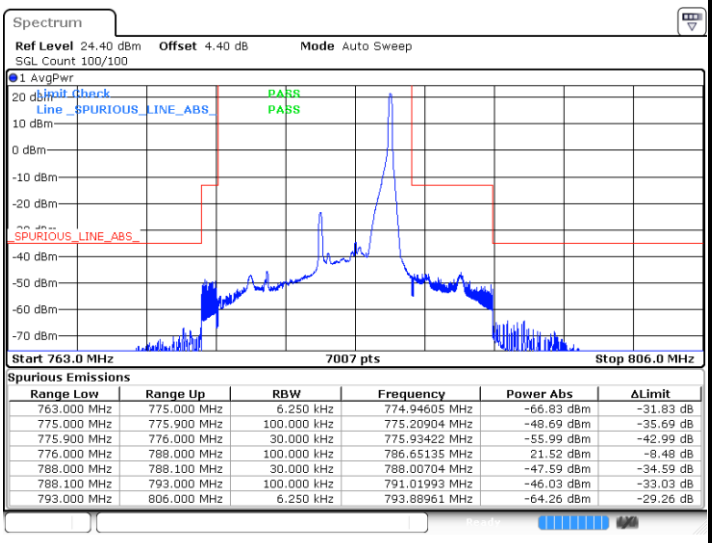


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.11189 MHz	-56.60 dBm	-21.60 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.82493 MHz	-40.93 dBm	-27.93 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99525 MHz	-47.19 dBm	-34.19 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.36064 MHz	21.65 dBm	-8.35 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02323 MHz	-64.58 dBm	-51.58 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.13392 MHz	-57.82 dBm	-44.82 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.33117 MHz	-76.41 dBm	-41.41 dB

Date: 21.FEB.2020 22:52:12

Highest Band Edge / 1 RB

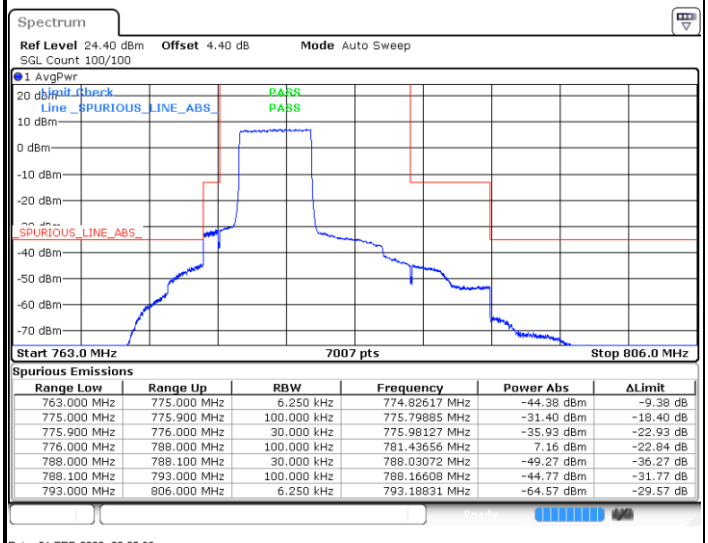


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.94605 MHz	-66.83 dBm	-31.83 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.20904 MHz	-48.69 dBm	-35.69 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.93422 MHz	-55.99 dBm	-42.99 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.65135 MHz	21.52 dBm	-8.48 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00704 MHz	-47.59 dBm	-34.59 dB
788.100 MHz	793.000 MHz	100.000 kHz	791.01993 MHz	-46.03 dBm	-33.03 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.88961 MHz	-64.26 dBm	-29.26 dB

Date: 21.FEB.2020 23:03:40

Lowest Band Edge / Full RB

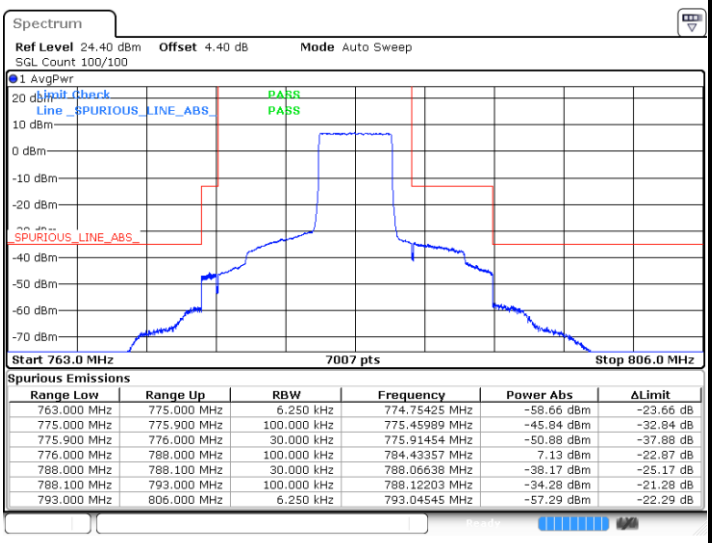


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.82617 MHz	-44.38 dBm	-9.38 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.79885 MHz	-31.40 dBm	-18.40 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98127 MHz	-35.93 dBm	-22.93 dB
776.000 MHz	788.000 MHz	100.000 kHz	781.43656 MHz	7.16 dBm	-22.84 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.03072 MHz	-49.27 dBm	-36.27 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.16608 MHz	-44.77 dBm	-31.77 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.18831 MHz	-64.57 dBm	-29.57 dB

Date: 21.FEB.2020 22:50:33

Highest Band Edge / Full RB



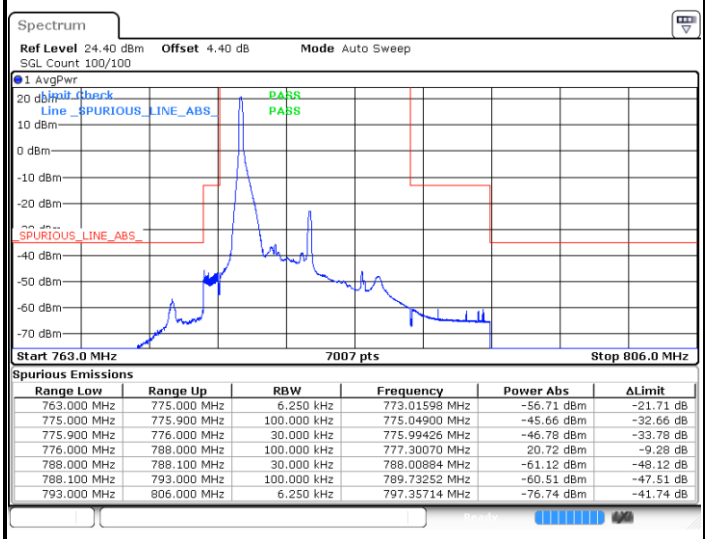
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.75425 MHz	-58.66 dBm	-23.66 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.45989 MHz	-45.84 dBm	-32.84 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.91454 MHz	-50.88 dBm	-37.88 dB
776.000 MHz	788.000 MHz	100.000 kHz	784.43357 MHz	7.13 dBm	-22.87 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.06638 MHz	-38.17 dBm	-25.17 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.12203 MHz	-34.28 dBm	-21.28 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.04545 MHz	-57.29 dBm	-22.29 dB

Date: 21.FEB.2020 23:02:01

LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

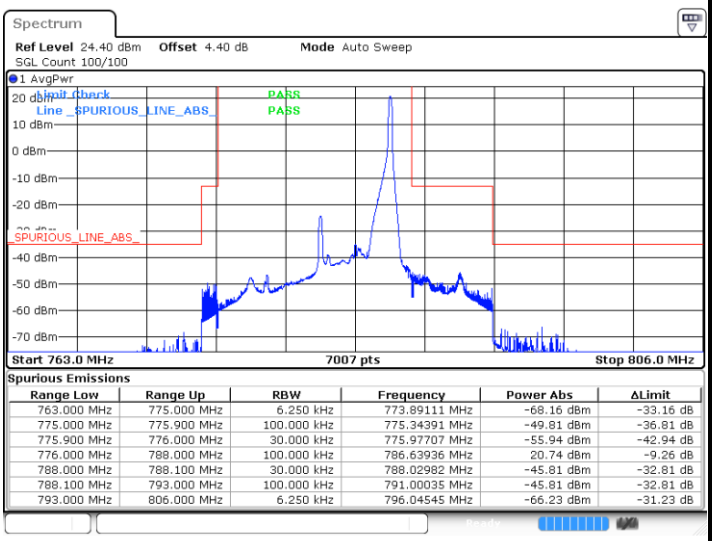


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.01598 MHz	-56.71 dBm	-21.71 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.04900 MHz	-45.66 dBm	-32.66 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99426 MHz	-46.78 dBm	-33.78 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.30070 MHz	20.72 dBm	-9.28 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00884 MHz	-61.12 dBm	-48.12 dB
788.100 MHz	793.000 MHz	100.000 kHz	789.73252 MHz	-60.51 dBm	-47.51 dB
793.000 MHz	806.000 MHz	6.250 kHz	797.35714 MHz	-76.74 dBm	-41.74 dB

Date: 21.FEB.2020 22:53:50

Highest Band Edge / 1 RB

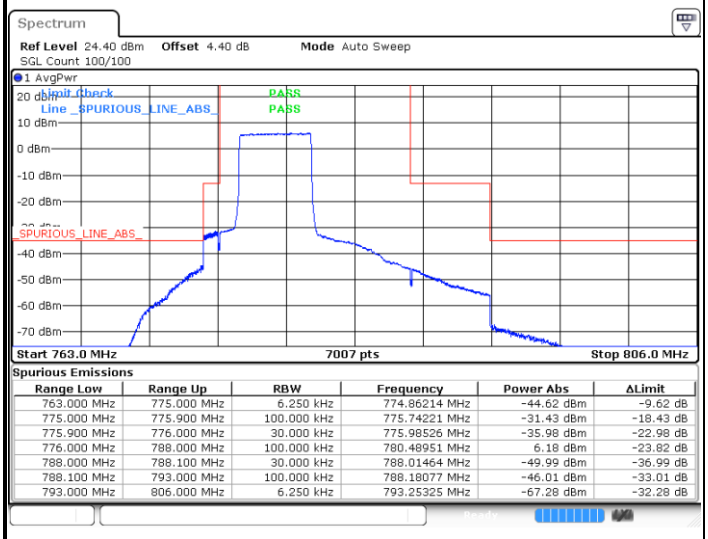


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.89111 MHz	-68.16 dBm	-33.16 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.34391 MHz	-49.81 dBm	-36.81 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.97707 MHz	-55.94 dBm	-42.94 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.63936 MHz	20.74 dBm	-9.26 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02982 MHz	-45.81 dBm	-32.81 dB
788.100 MHz	793.000 MHz	100.000 kHz	791.00035 MHz	-45.81 dBm	-32.81 dB
793.000 MHz	806.000 MHz	6.250 kHz	796.04545 MHz	-66.23 dBm	-31.23 dB

Date: 21.FEB.2020 23:05:19

Lowest Band Edge / Full RB

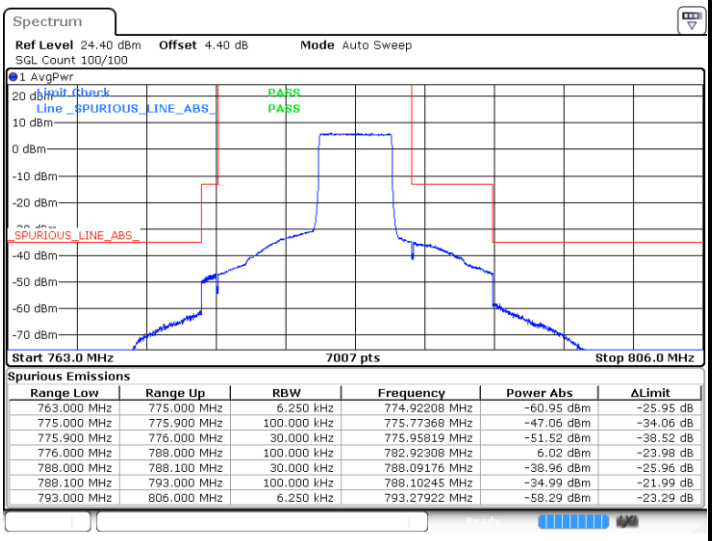


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.86214 MHz	-44.62 dBm	-9.62 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.74221 MHz	-31.43 dBm	-18.43 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98526 MHz	-35.98 dBm	-22.98 dB
776.000 MHz	788.000 MHz	100.000 kHz	780.48951 MHz	6.18 dBm	-23.82 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.01464 MHz	-49.99 dBm	-36.99 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.18077 MHz	-46.01 dBm	-33.01 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.25325 MHz	-67.28 dBm	-32.28 dB

Date: 21.FEB.2020 22:48:54

Highest Band Edge / Full RB



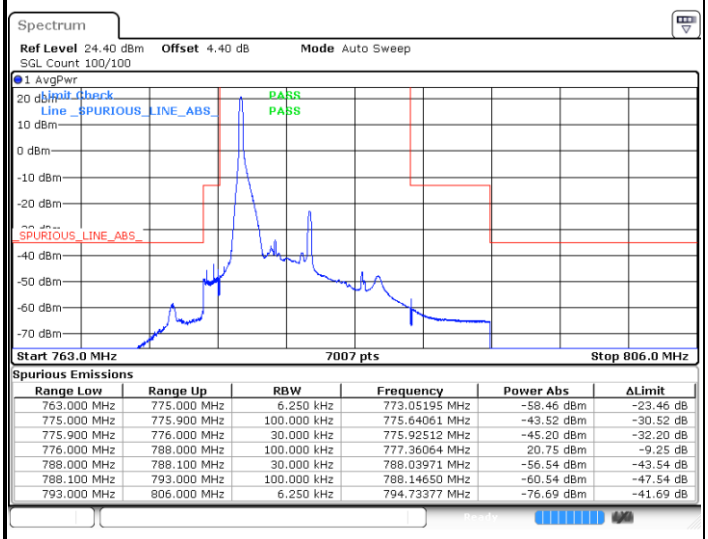
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.92208 MHz	-60.95 dBm	-25.95 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.77368 MHz	-47.06 dBm	-34.06 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.95819 MHz	-51.52 dBm	-38.52 dB
776.000 MHz	788.000 MHz	100.000 kHz	782.92308 MHz	6.02 dBm	-23.98 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09176 MHz	-38.96 dBm	-25.96 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10245 MHz	-34.99 dBm	-21.99 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.27922 MHz	-58.29 dBm	-23.29 dB

Date: 21.FEB.2020 23:00:22

LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

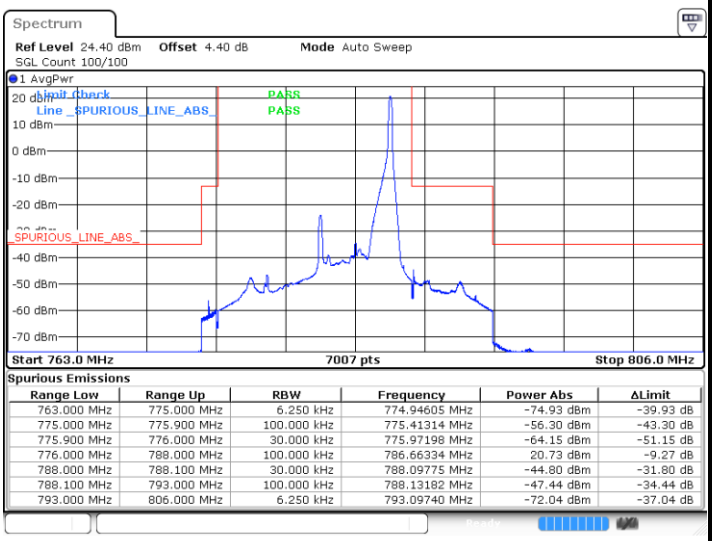


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.05195 MHz	-58.46 dBm	-23.46 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.64061 MHz	-43.52 dBm	-30.52 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.92512 MHz	-45.20 dBm	-32.20 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.36064 MHz	20.75 dBm	-9.25 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.03971 MHz	-56.54 dBm	-43.54 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.14650 MHz	-60.54 dBm	-47.54 dB
793.000 MHz	806.000 MHz	6.250 kHz	794.73377 MHz	-76.69 dBm	-41.69 dB

Date: 21.FEB.2020 23:22:49

Highest Band Edge / 1 RB

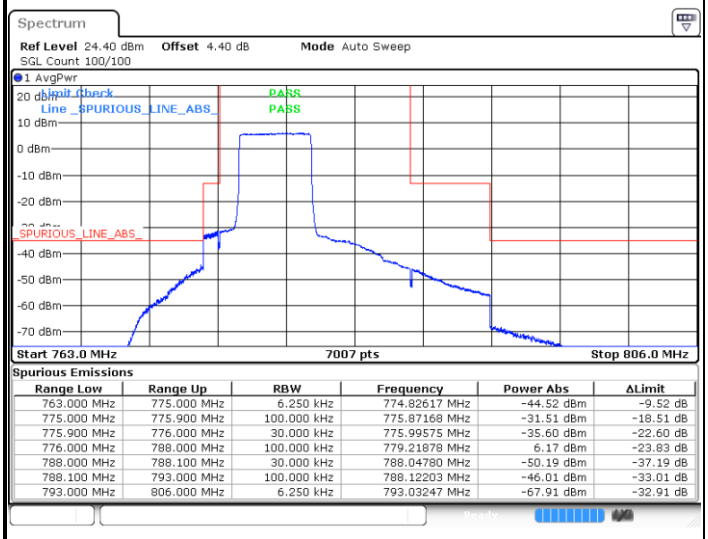


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.94605 MHz	-74.93 dBm	-39.93 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.41314 MHz	-56.30 dBm	-43.30 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.97198 MHz	-64.15 dBm	-51.15 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.66334 MHz	20.73 dBm	-9.27 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09775 MHz	-44.80 dBm	-31.80 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.13182 MHz	-47.44 dBm	-34.44 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.09740 MHz	-72.04 dBm	-37.04 dB

Date: 21.FEB.2020 23:27:46

Lowest Band Edge / Full RB

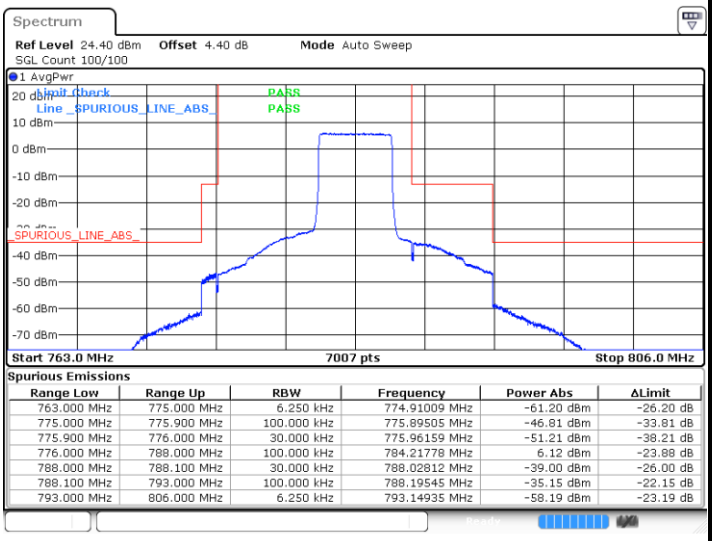


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.82617 MHz	-44.52 dBm	-9.52 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.87168 MHz	-31.51 dBm	-18.51 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99575 MHz	-35.60 dBm	-22.60 dB
776.000 MHz	788.000 MHz	100.000 kHz	779.21878 MHz	6.17 dBm	-23.83 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.04780 MHz	-50.19 dBm	-37.19 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.12203 MHz	-46.01 dBm	-33.01 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.03247 MHz	-67.91 dBm	-32.91 dB

Date: 21.FEB.2020 23:24:28

Highest Band Edge / Full RB



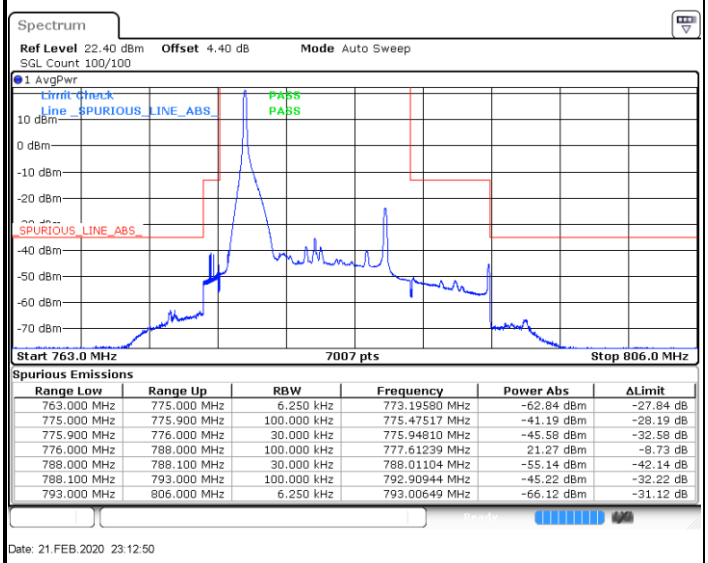
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.91009 MHz	-61.20 dBm	-26.20 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89505 MHz	-46.81 dBm	-33.81 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96159 MHz	-51.21 dBm	-38.21 dB
776.000 MHz	788.000 MHz	100.000 kHz	784.21778 MHz	6.12 dBm	-23.88 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02812 MHz	-39.00 dBm	-26.00 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.19545 MHz	-35.15 dBm	-22.15 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.14935 MHz	-58.19 dBm	-23.19 dB

Date: 21.FEB.2020 23:26:07

LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

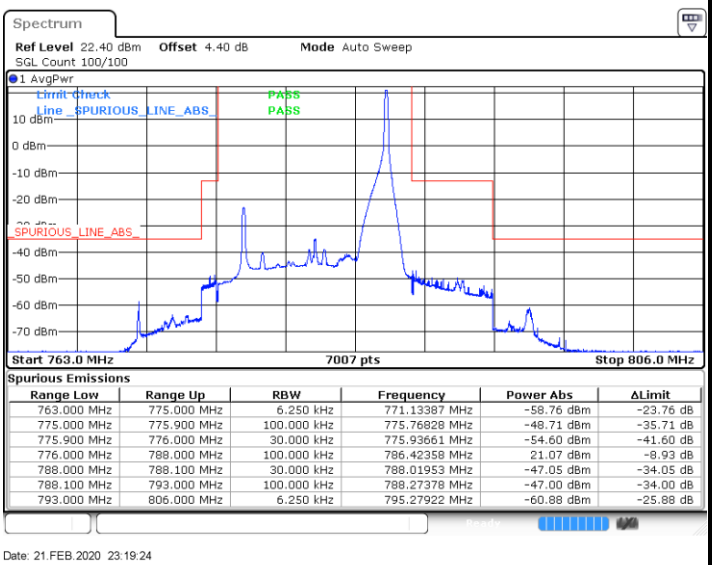


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.19580 MHz	-62.84 dBm	-27.84 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.47517 MHz	-41.19 dBm	-28.19 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.94810 MHz	-45.58 dBm	-32.58 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.61239 MHz	21.27 dBm	-8.73 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.01104 MHz	-55.14 dBm	-42.14 dB
788.100 MHz	793.000 MHz	100.000 kHz	792.90944 MHz	-45.22 dBm	-32.22 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.00649 MHz	-66.12 dBm	-31.12 dB

Date: 21.FEB.2020 23:12:50

Highest Band Edge / 1 RB

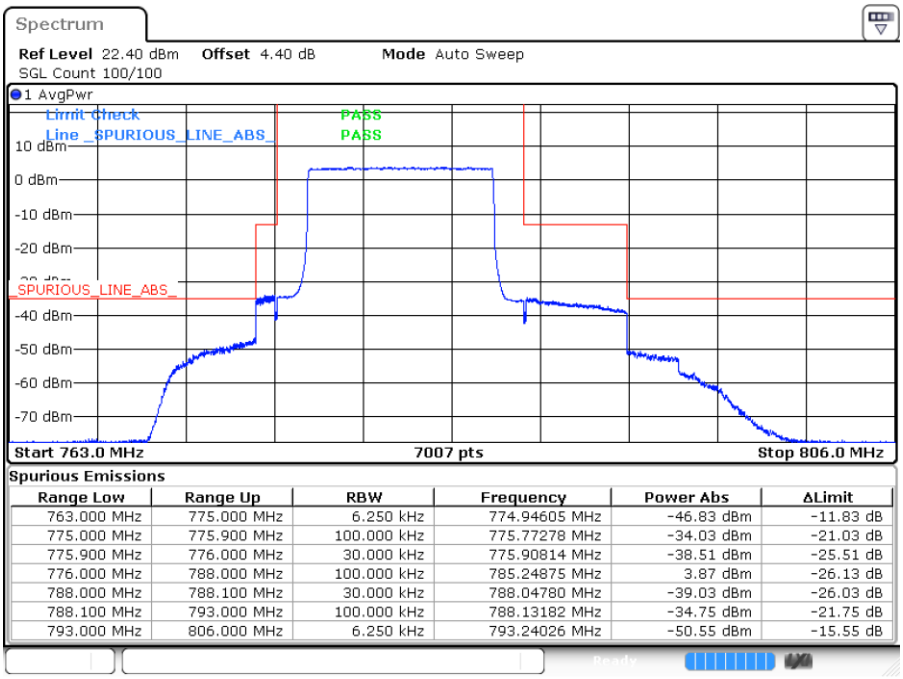


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	771.13387 MHz	-58.76 dBm	-23.76 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.76828 MHz	-48.71 dBm	-35.71 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.93661 MHz	-54.60 dBm	-41.60 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.42358 MHz	21.07 dBm	-8.93 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.01953 MHz	-47.05 dBm	-34.05 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.27378 MHz	-47.00 dBm	-34.00 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.27922 MHz	-60.88 dBm	-25.88 dB

Date: 21.FEB.2020 23:19:24

Band Edge / Full RB



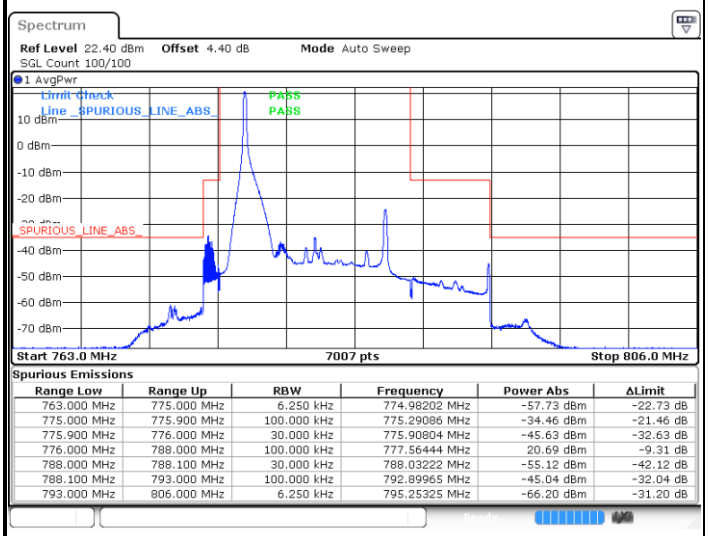
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.94605 MHz	-46.83 dBm	-11.83 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.77278 MHz	-34.03 dBm	-21.03 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.90814 MHz	-38.51 dBm	-25.51 dB
776.000 MHz	788.000 MHz	100.000 kHz	785.24875 MHz	3.87 dBm	-26.13 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.04780 MHz	-39.03 dBm	-26.03 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.13182 MHz	-34.75 dBm	-21.75 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.24026 MHz	-50.55 dBm	-15.55 dB

Date: 21.FEB.2020 23:14:28

LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

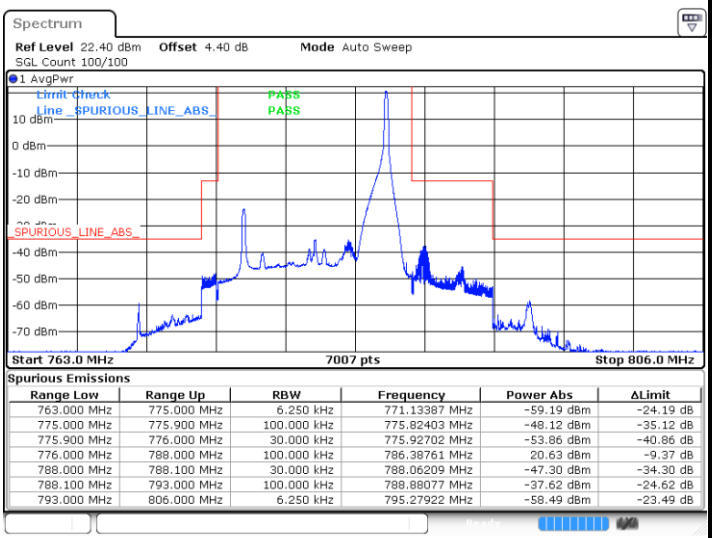


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.98202 MHz	-57.73 dBm	-22.73 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.29086 MHz	-34.46 dBm	-21.46 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.90804 MHz	-45.63 dBm	-32.63 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.56444 MHz	20.69 dBm	-9.31 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.03222 MHz	-55.12 dBm	-42.12 dB
788.100 MHz	793.000 MHz	100.000 kHz	792.89965 MHz	-45.04 dBm	-32.04 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.25325 MHz	-66.20 dBm	-31.20 dB

Date: 21.FEB.2020 23:11:11

Highest Band Edge / 1 RB

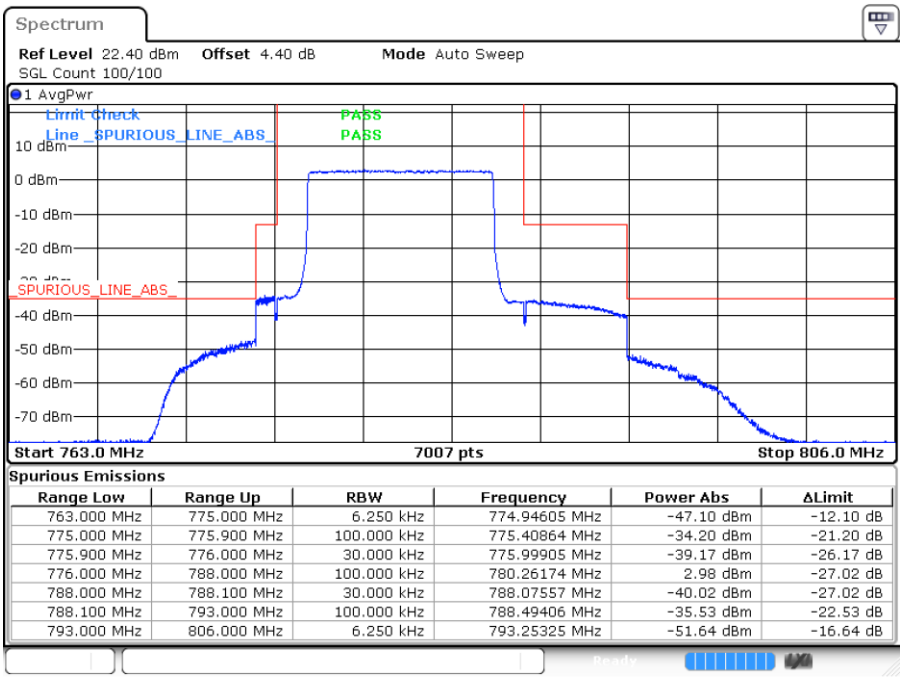


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	771.13387 MHz	-59.19 dBm	-24.19 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.82403 MHz	-48.12 dBm	-35.12 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.92702 MHz	-53.86 dBm	-40.86 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.38761 MHz	20.63 dBm	-9.37 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.06209 MHz	-47.30 dBm	-34.30 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.88077 MHz	-37.62 dBm	-24.62 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.27922 MHz	-58.49 dBm	-23.49 dB

Date: 21.FEB.2020 23:17:46

Band Edge / Full RB



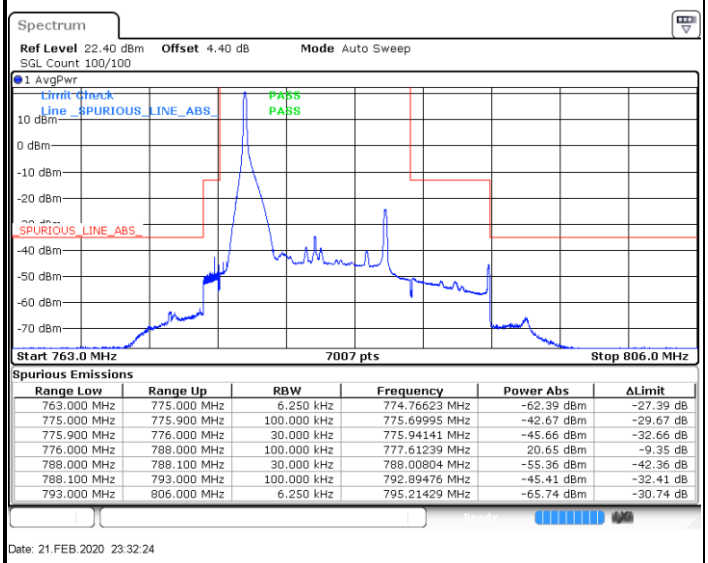
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.94605 MHz	-47.10 dBm	-12.10 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.40864 MHz	-34.20 dBm	-21.20 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99905 MHz	-39.17 dBm	-26.17 dB
776.000 MHz	788.000 MHz	100.000 kHz	780.26174 MHz	2.98 dBm	-27.02 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07557 MHz	-40.02 dBm	-27.02 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.49406 MHz	-35.53 dBm	-22.53 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.25325 MHz	-51.64 dBm	-16.64 dB

Date: 21.FEB.2020 23:16:07

LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

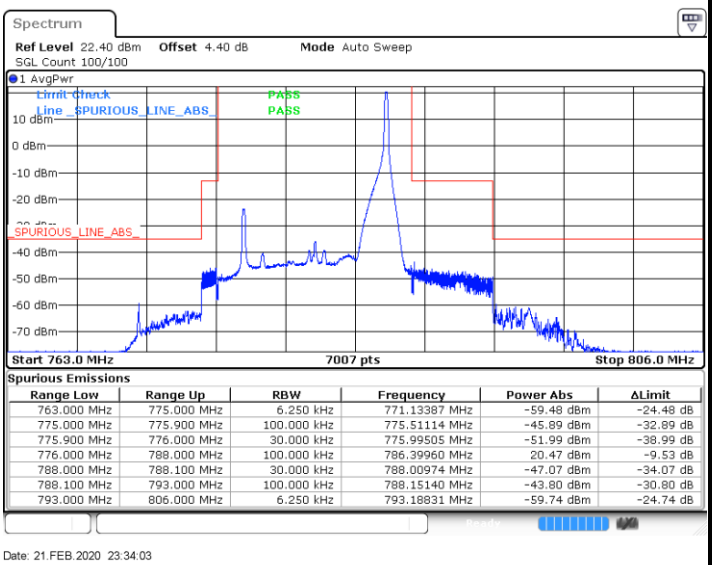


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.76623 MHz	-62.39 dBm	-27.39 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.69995 MHz	-42.67 dBm	-29.67 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.94141 MHz	-45.66 dBm	-32.66 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.61239 MHz	20.65 dBm	-9.35 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00804 MHz	-55.36 dBm	-42.36 dB
788.100 MHz	793.000 MHz	100.000 kHz	792.89476 MHz	-45.41 dBm	-32.41 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.21429 MHz	-65.74 dBm	-30.74 dB

Date: 21.FEB.2020 23:32:24

Highest Band Edge / 1 RB

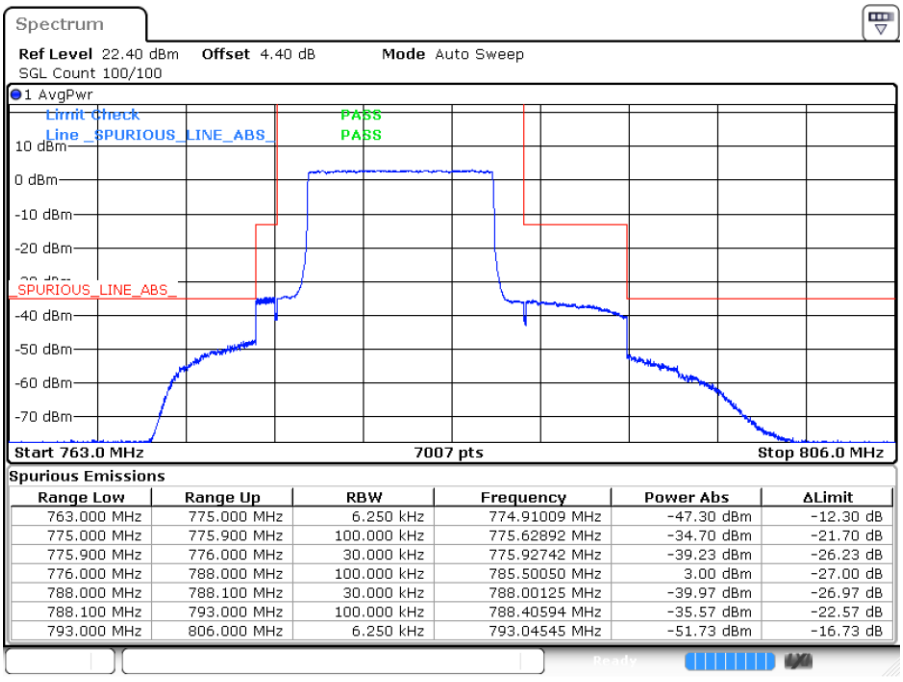


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	771.13387 MHz	-59.48 dBm	-24.48 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.51114 MHz	-45.89 dBm	-32.89 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99505 MHz	-51.99 dBm	-38.99 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.39960 MHz	20.47 dBm	-9.53 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00974 MHz	-47.07 dBm	-34.07 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.15140 MHz	-43.80 dBm	-30.80 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.18831 MHz	-59.74 dBm	-24.74 dB

Date: 21.FEB.2020 23:34:03

Band Edge / Full RB



Spurious Emissions

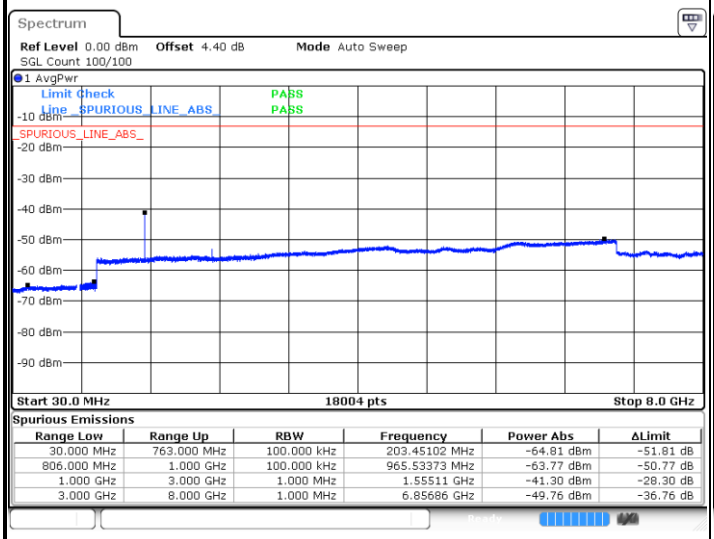
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.91009 MHz	-47.30 dBm	-12.30 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.62892 MHz	-34.70 dBm	-21.70 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.92742 MHz	-39.23 dBm	-26.23 dB
776.000 MHz	788.000 MHz	100.000 kHz	785.50050 MHz	3.00 dBm	-27.00 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00125 MHz	-39.97 dBm	-26.97 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.40594 MHz	-35.57 dBm	-22.57 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.04545 MHz	-51.73 dBm	-16.73 dB

Date: 21.FEB.2020 23:35:42

Conducted Spurious Emission

LTE Band 13 / 5MHz

Lowest Channel / QPSK

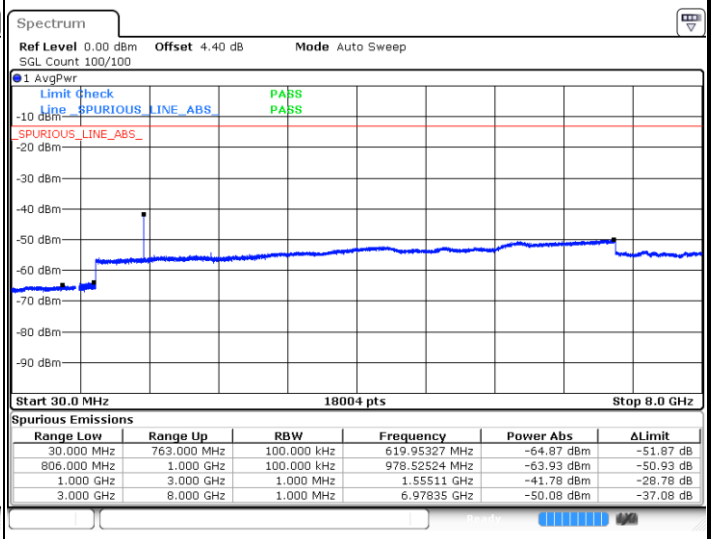


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	203.45102 MHz	-64.81 dBm	-51.81 dB
806.000 MHz	1.000 GHz	100.000 kHz	965.53373 MHz	-63.77 dBm	-50.77 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55511 GHz	-41.30 dBm	-28.30 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.85686 GHz	-49.76 dBm	-36.76 dB

Date: 21.FEB.2020 22:55:38

Lowest Channel / 16QAM

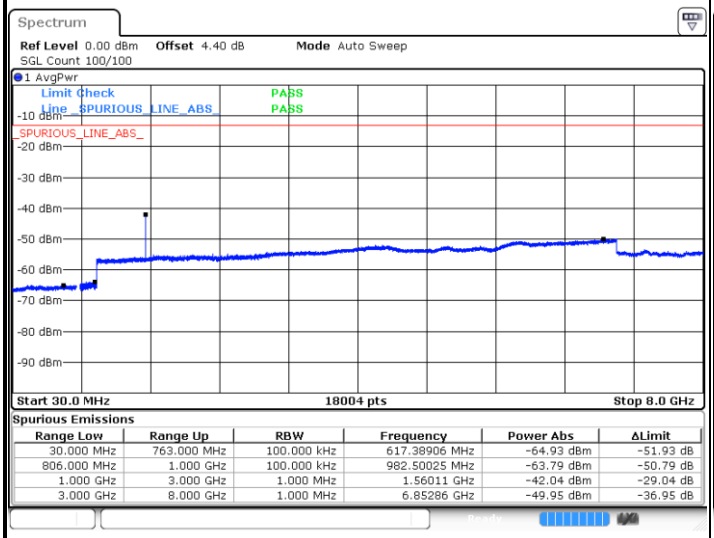


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	619.95327 MHz	-64.87 dBm	-51.87 dB
806.000 MHz	1.000 GHz	100.000 kHz	978.52524 MHz	-63.93 dBm	-50.93 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55511 GHz	-41.78 dBm	-28.78 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.97835 GHz	-50.08 dBm	-37.08 dB

Date: 21.FEB.2020 22:54:44

Middle Channel / QPSK

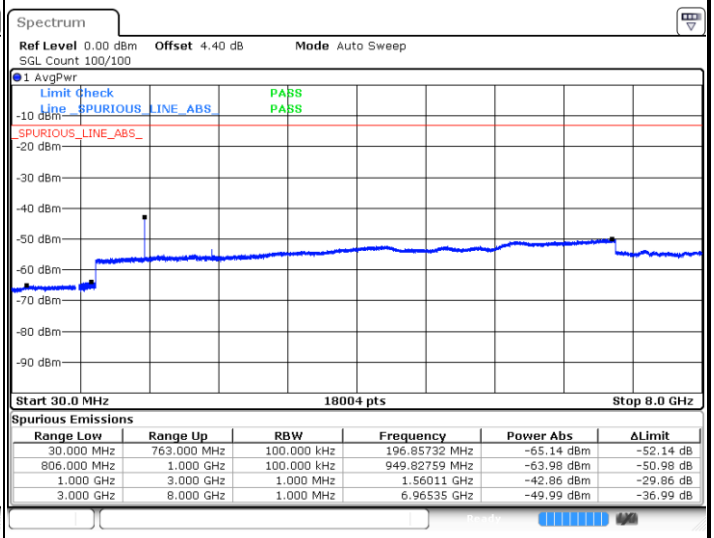


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	617.38906 MHz	-64.93 dBm	-51.93 dB
806.000 MHz	1.000 GHz	100.000 kHz	982.50025 MHz	-63.79 dBm	-50.79 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56011 GHz	-42.04 dBm	-29.04 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.85286 GHz	-49.95 dBm	-36.95 dB

Date: 21.FEB.2020 22:57:11

Middle Channel / 16QAM



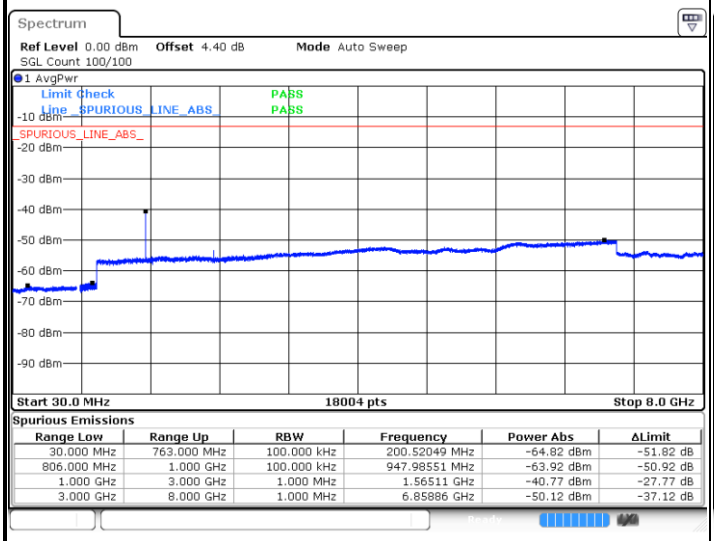
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	196.85732 MHz	-65.14 dBm	-52.14 dB
806.000 MHz	1.000 GHz	100.000 kHz	949.82759 MHz	-63.98 dBm	-50.98 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56011 GHz	-42.86 dBm	-29.86 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.96535 GHz	-49.99 dBm	-36.99 dB

Date: 21.FEB.2020 22:58:04

LTE Band 13 / 5MHz

Highest Channel / QPSK

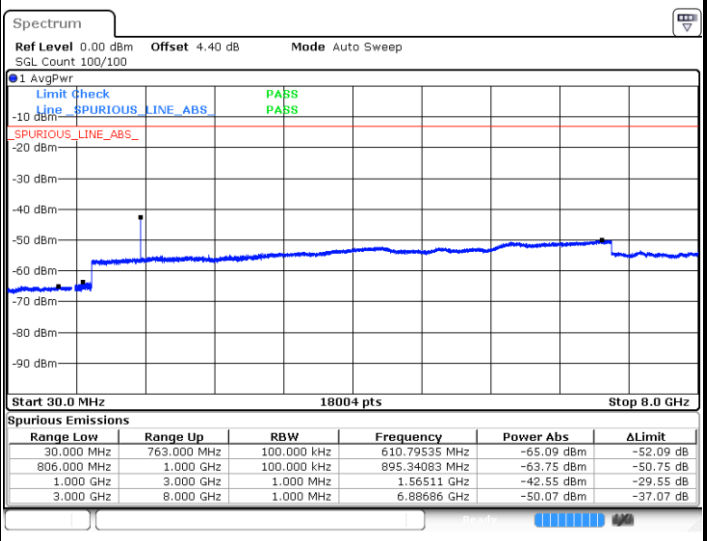


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	200.52049 MHz	-64.82 dBm	-51.82 dB
806.000 MHz	1.000 GHz	100.000 kHz	947.98551 MHz	-63.92 dBm	-50.92 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-40.77 dBm	-27.77 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.85886 GHz	-50.12 dBm	-37.12 dB

Date: 21.FEB.2020 23:07:06

Highest Channel / 16QAM



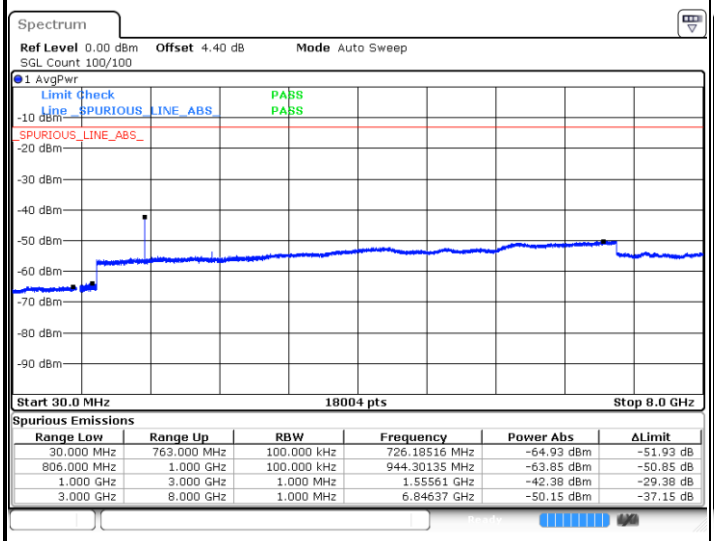
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	610.79535 MHz	-65.09 dBm	-52.09 dB
806.000 MHz	1.000 GHz	100.000 kHz	895.34083 MHz	-63.75 dBm	-50.75 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-42.55 dBm	-29.55 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.88686 GHz	-50.07 dBm	-37.07 dB

Date: 21.FEB.2020 23:06:13

LTE Band 13 / 10MHz

Middle Channel / QPSK

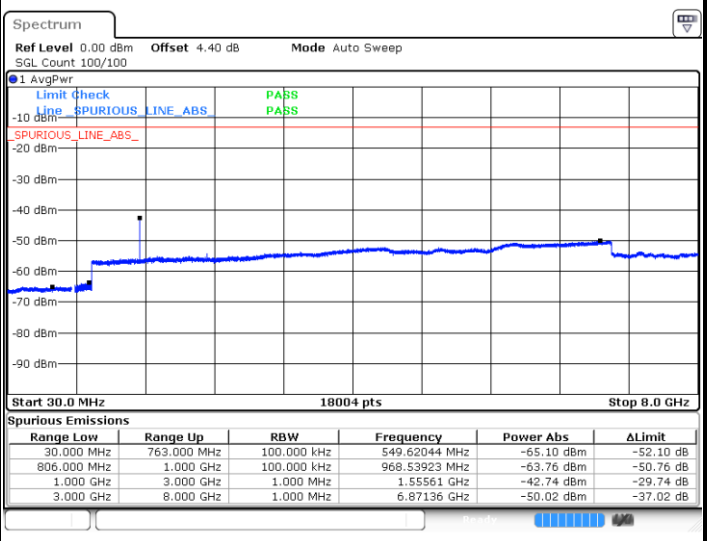


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	726.18516 MHz	-64.93 dBm	-51.93 dB
806.000 MHz	1.000 GHz	100.000 kHz	944.30135 MHz	-63.85 dBm	-50.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55561 GHz	-42.38 dBm	-29.38 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.84637 GHz	-50.15 dBm	-37.15 dB

Date: 21.FEB.2020 23:07:59

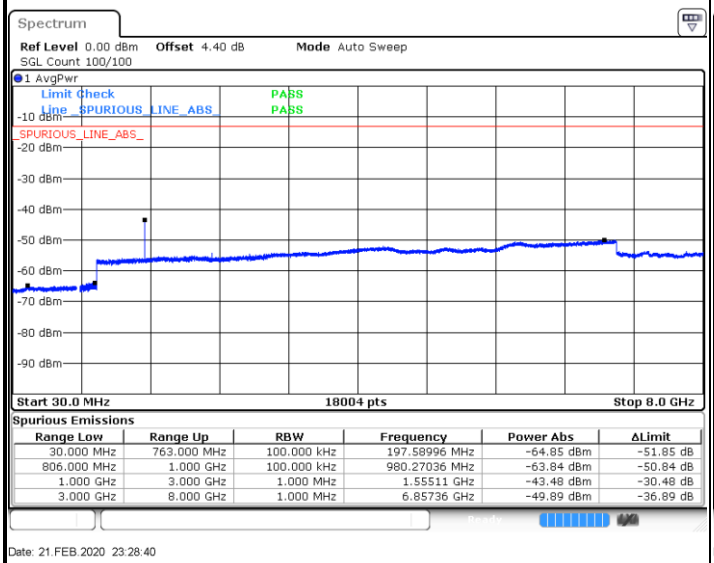
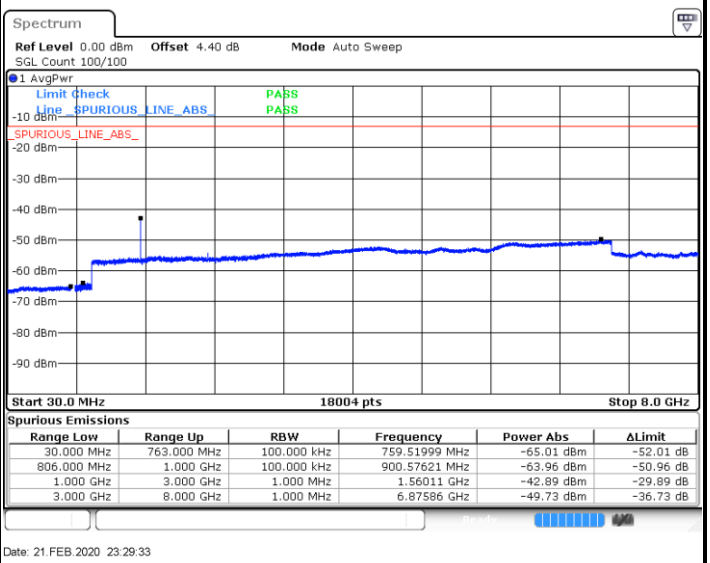
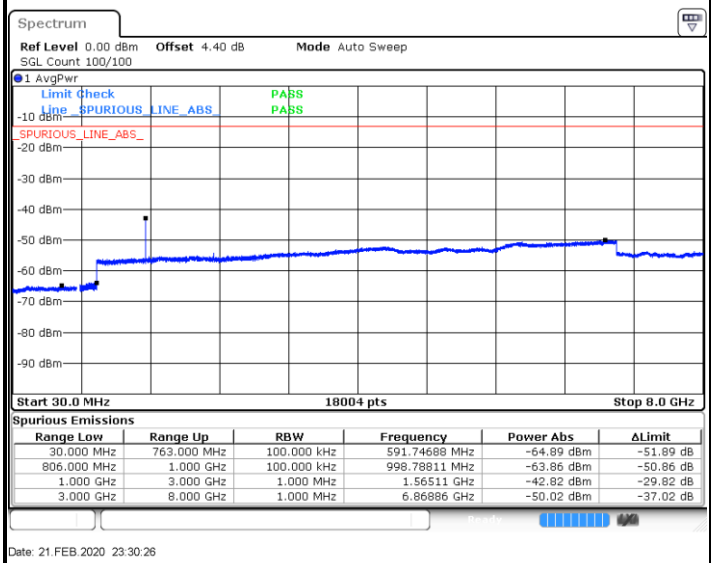
Middle Channel / 16QAM



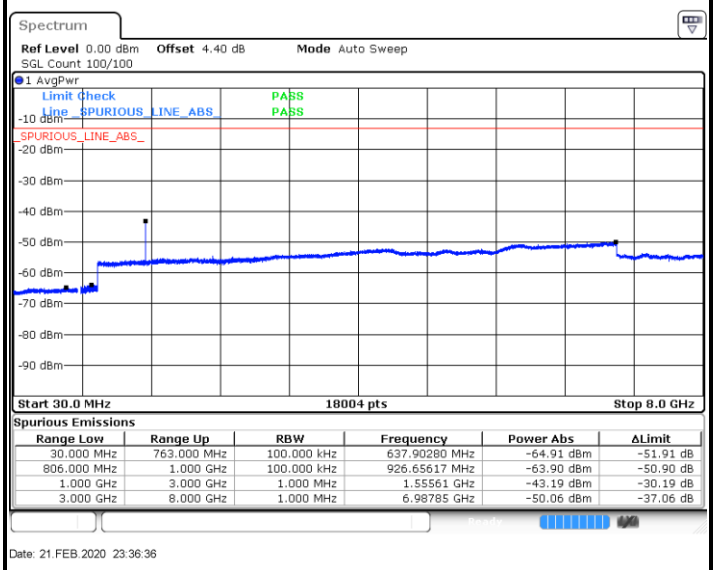
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	549.62044 MHz	-65.10 dBm	-52.10 dB
806.000 MHz	1.000 GHz	100.000 kHz	968.53923 MHz	-63.76 dBm	-50.76 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55561 GHz	-42.74 dBm	-29.74 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.87136 GHz	-50.02 dBm	-37.02 dB

Date: 21.FEB.2020 23:08:53

LTE Band 13 / 5MHz	
Lowest Channel / 64QAM	**Middle Channel / 64QAM**
	
Date: 21.FEB.2020 23:28:40	Date: 21.FEB.2020 23:29:33
Highest Channel / 64QAM	
	
Date: 21.FEB.2020 23:30:26	

LTE Band 13 / 10MHz
Middle Channel / 64QAM



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0064	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0056	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0069	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0031	
20	Maximum Voltage	0.0066	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

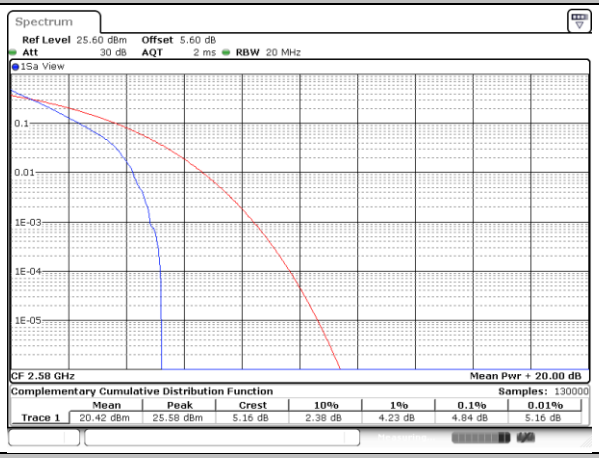
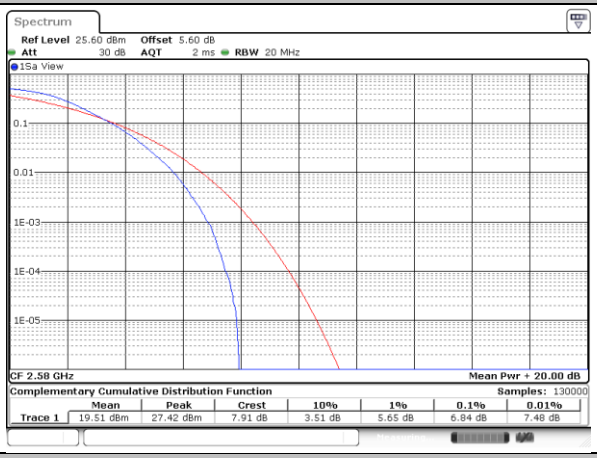
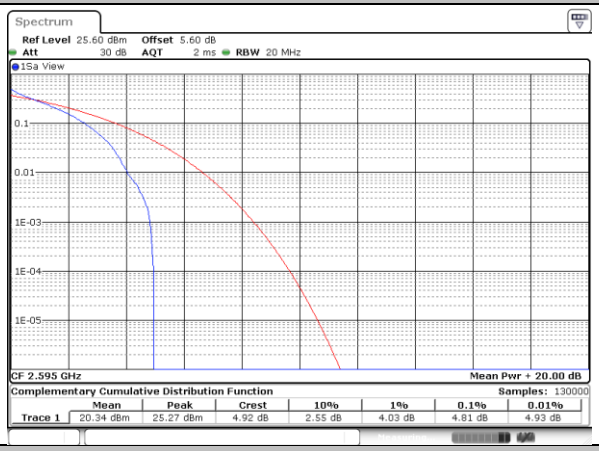
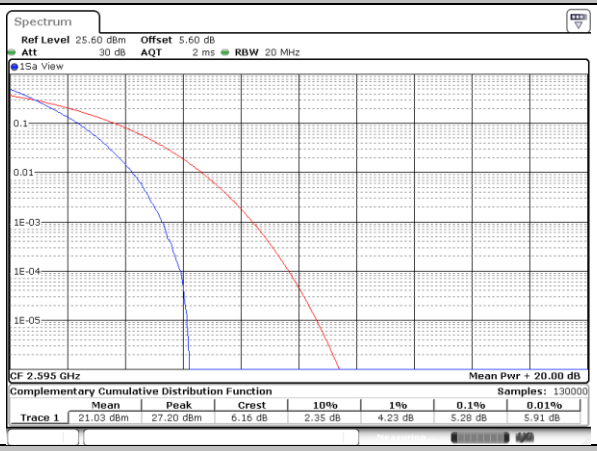
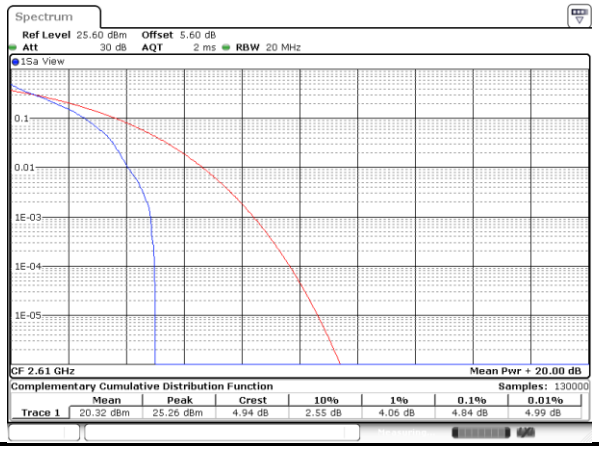
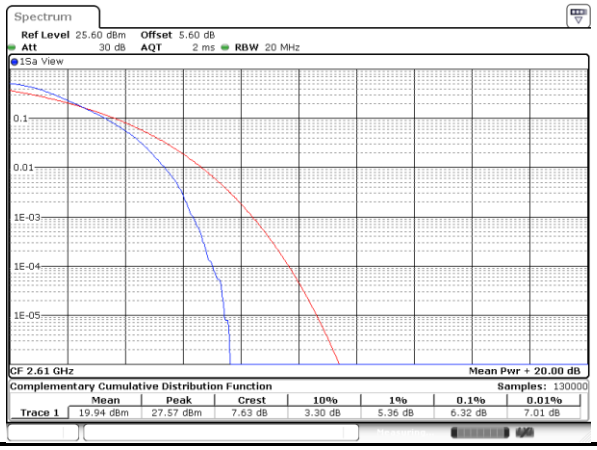
Note:

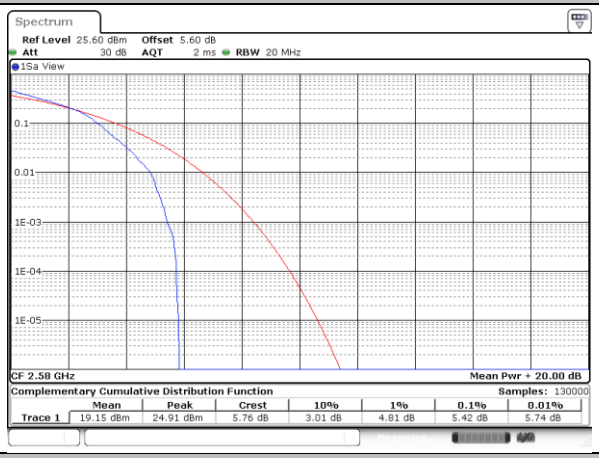
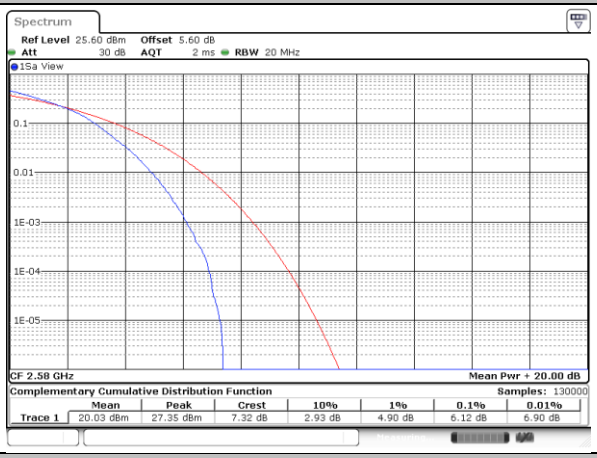
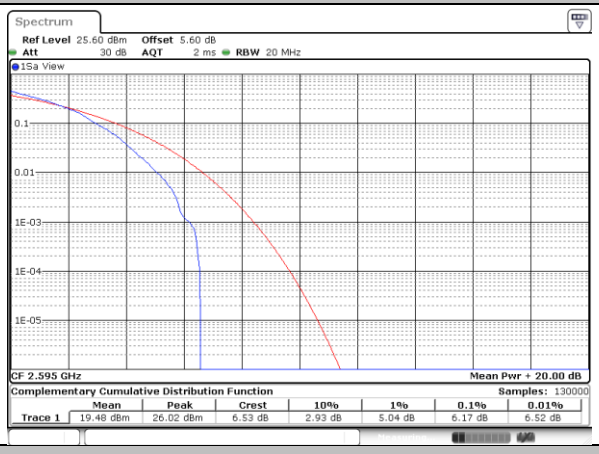
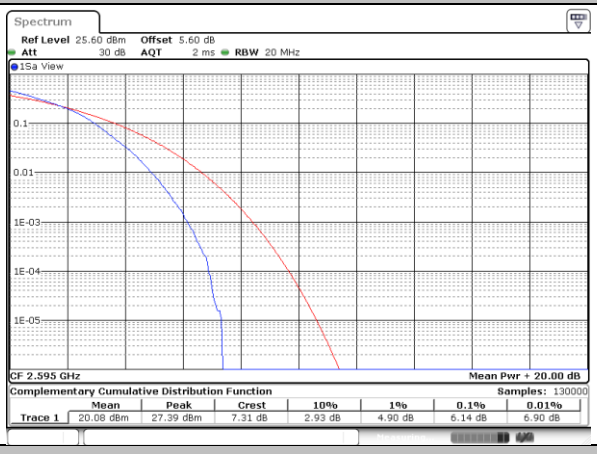
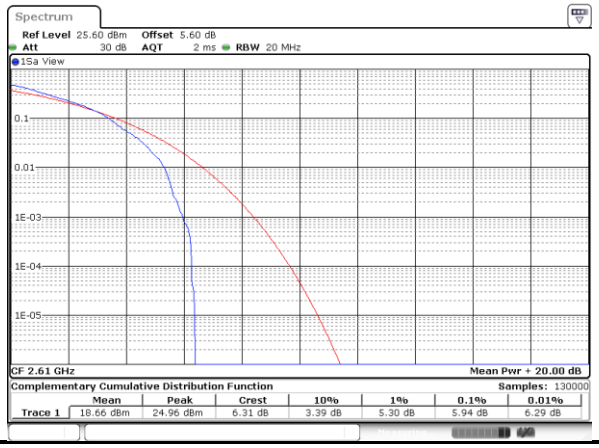
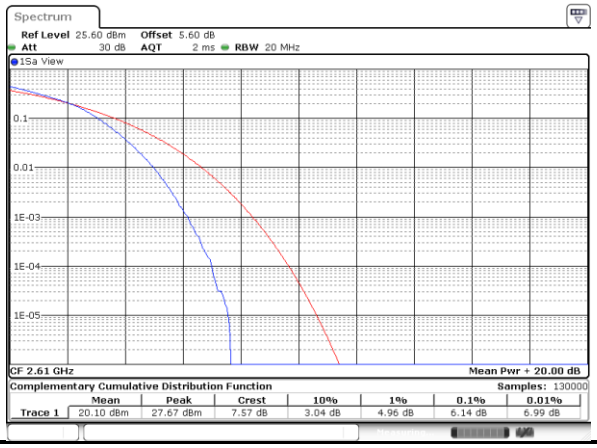
1. Normal Voltage =3.85 V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

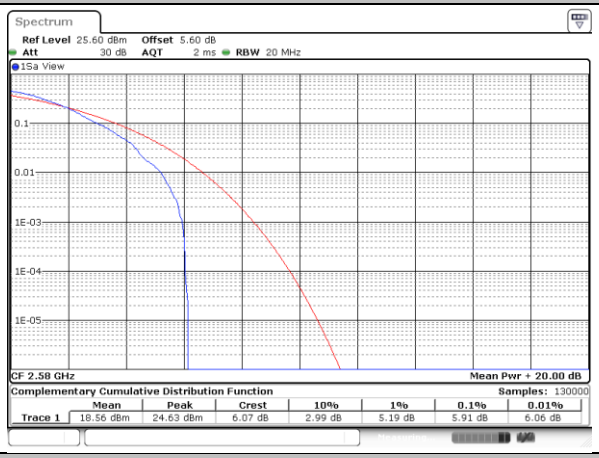
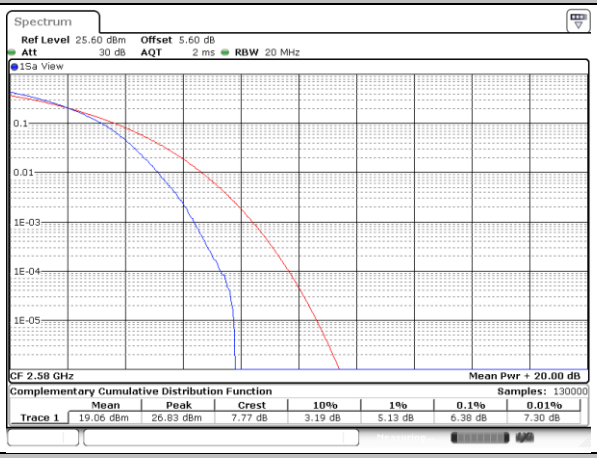
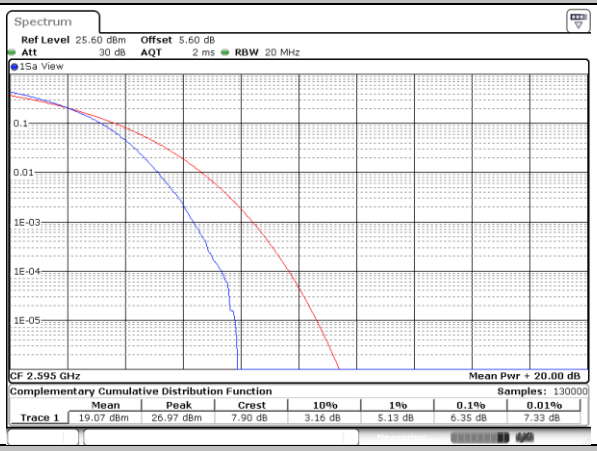
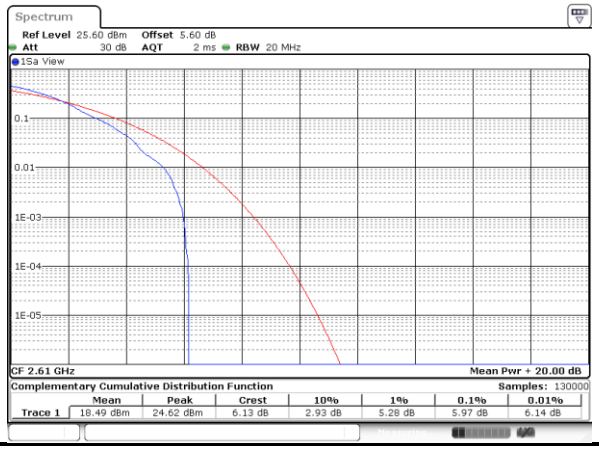
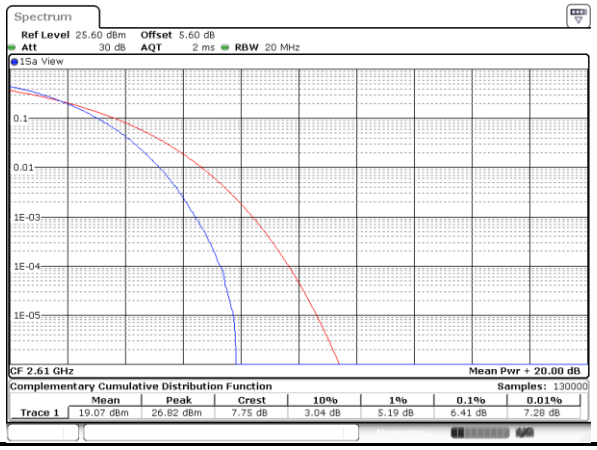
LTE Band 38

Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.84	6.84	5.42	6.12	PASS
Middle CH	4.81	5.28	6.17	6.14	
Highest CH	4.84	6.32	5.94	6.14	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	5.91	6.38	-	-	PASS
Middle CH	6.55	6.35	-	-	
Highest CH	5.97	6.41	-	-	

LTE Band 38 / 20MHz / QPSK	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

LTE Band 38 / 20MHz / 16QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

LTE Band 38 / 20MHz / 64QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

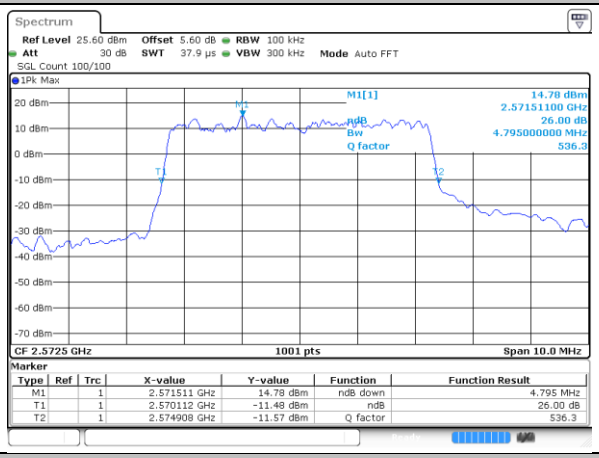
26dB Bandwidth

Mode	LTE Band 38 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.795	4.845	9.67	9.71	14.296	14.116	20.22	20.42
Middle CH	4.845	4.855	9.77	9.89	14.266	14.356	20.22	20.10
Highest CH	4.825	4.875	9.73	9.63	14.146	14.176	20.22	20.22

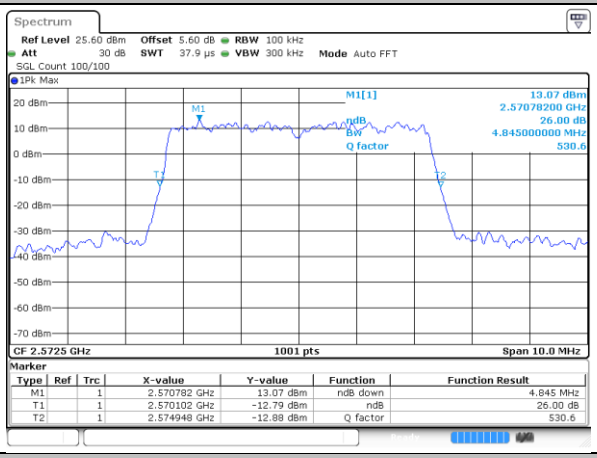
Mode	LTE Band 38 : 26dB BW(MHz)			
BW	5MHz	10MHz	15MHz	20MHz
Mod.	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.825	10.47	14.176	20.06
Middle CH	4.795	9.73	14.146	20.10
Highest CH	4.865	9.73	14.266	20.06

LTE Band 38

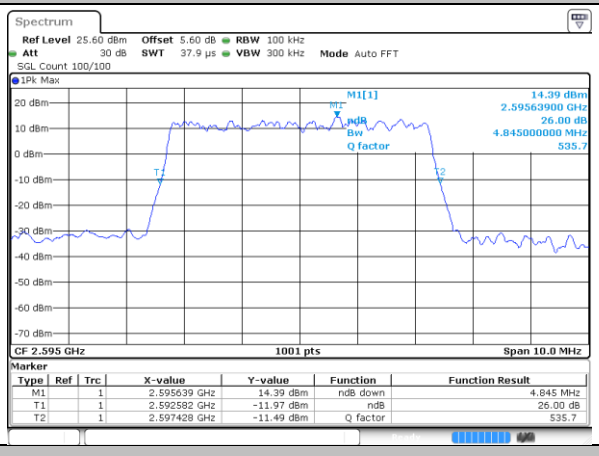
Lowest Channel / 5MHz / QPSK



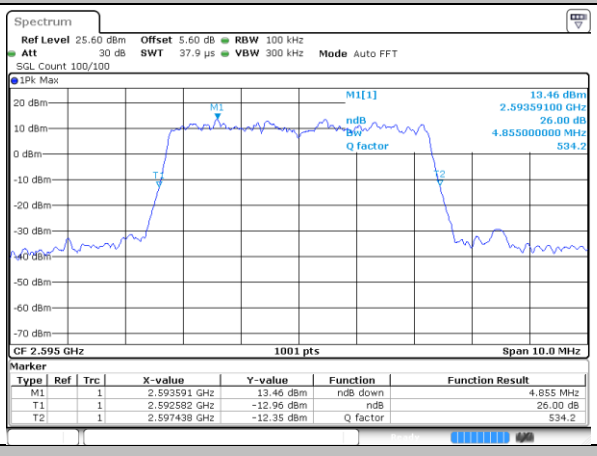
Lowest Channel / 5MHz / 16QAM



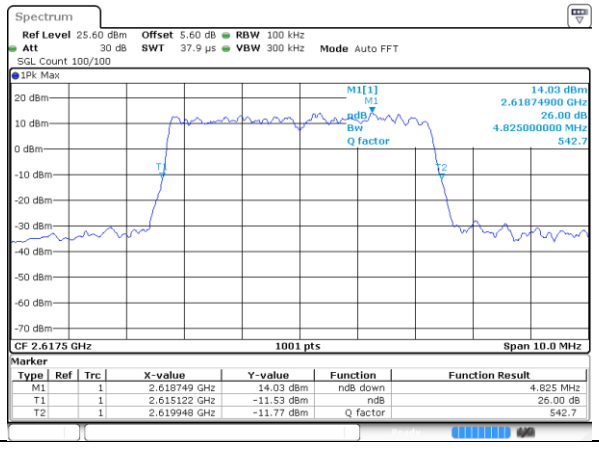
Middle Channel / 5MHz / QPSK



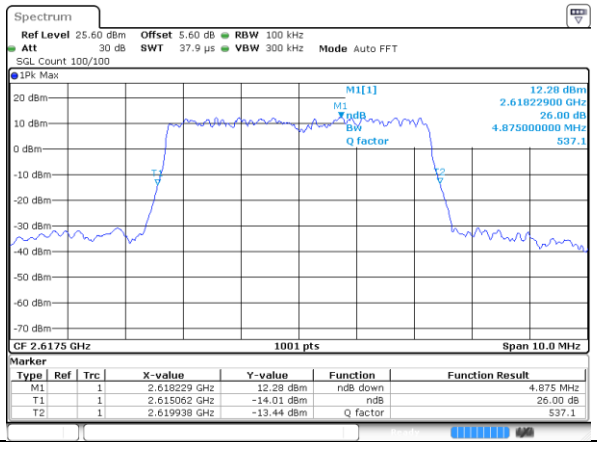
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

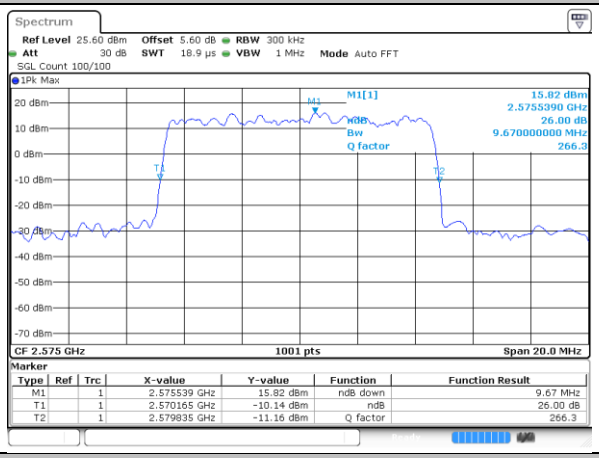


Highest Channel / 5MHz / 16QAM

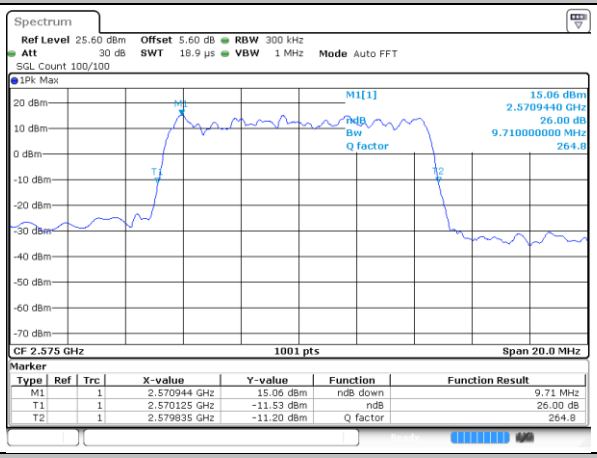


LTE Band 38

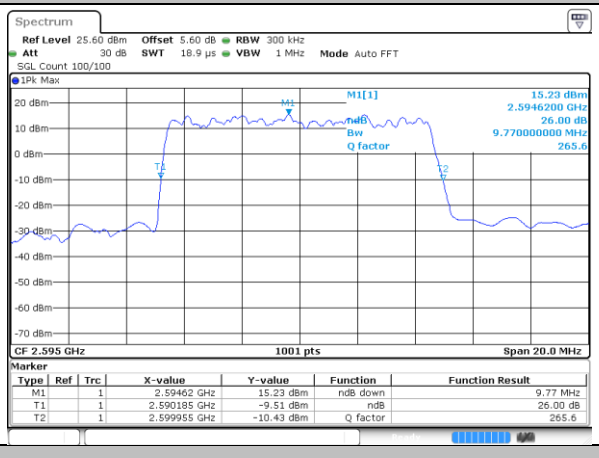
Lowest Channel / 10MHz / QPSK



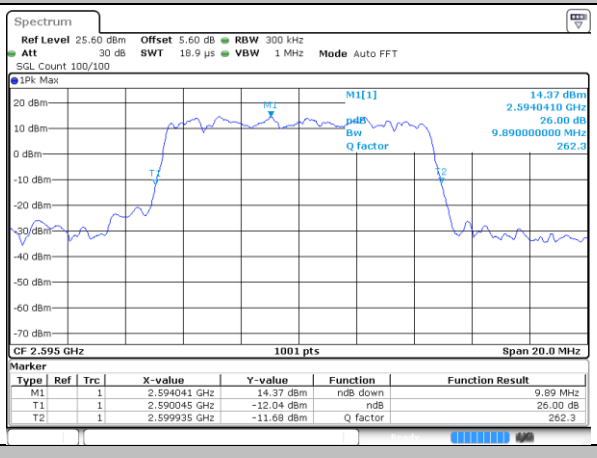
Lowest Channel / 10MHz / 16QAM



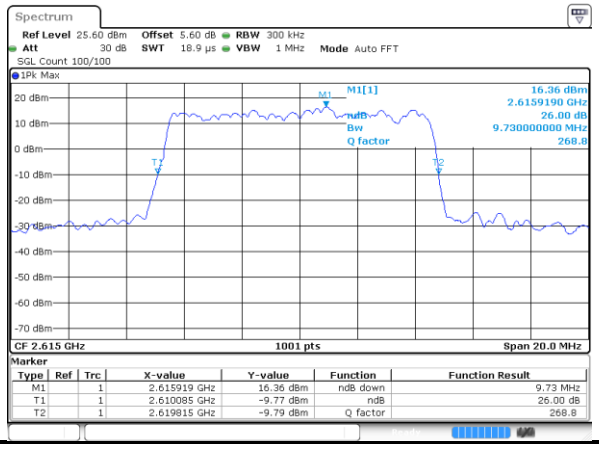
Middle Channel / 10MHz / QPSK



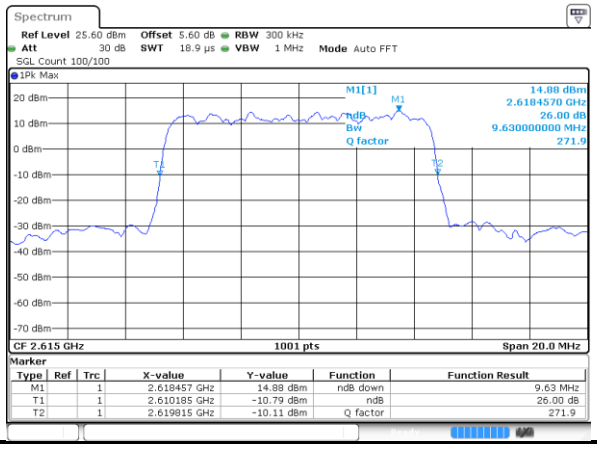
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

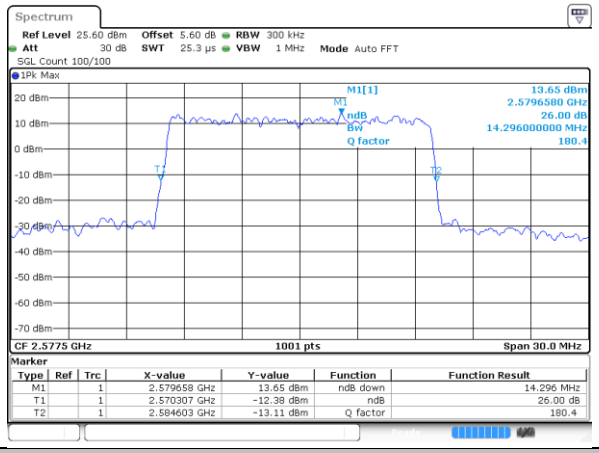


Highest Channel / 10MHz / 16QAM

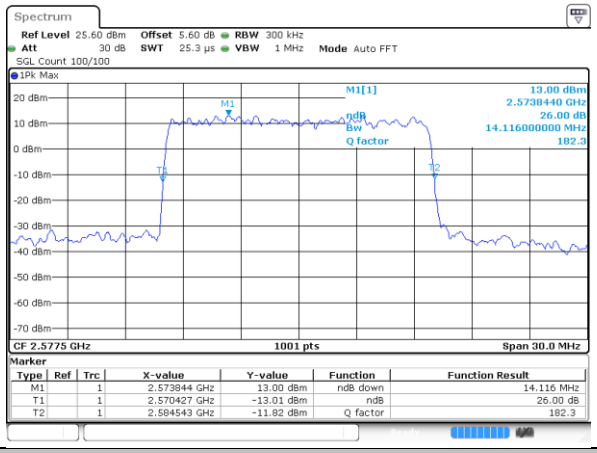


LTE Band 38

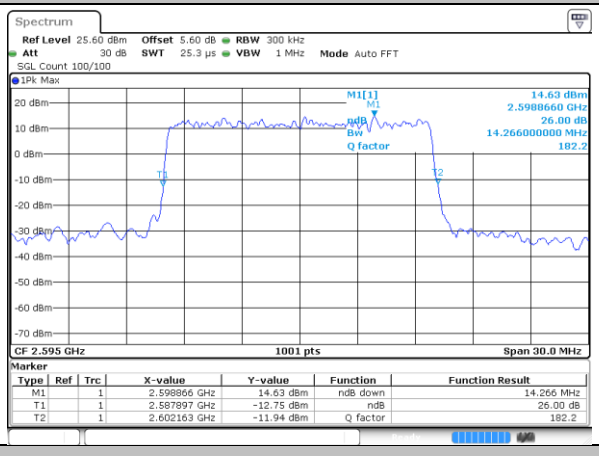
Lowest Channel / 15MHz / QPSK



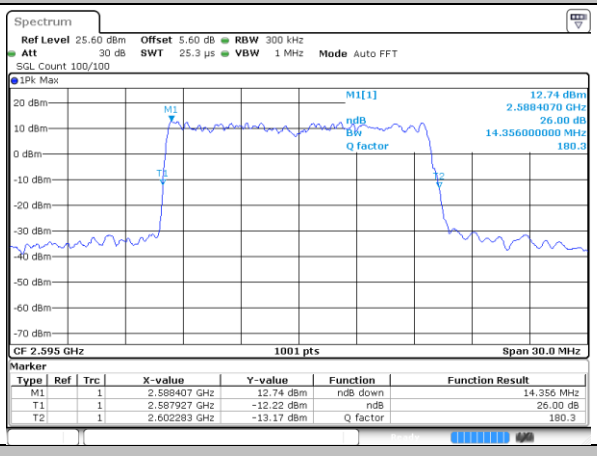
Lowest Channel / 15MHz / 16QAM



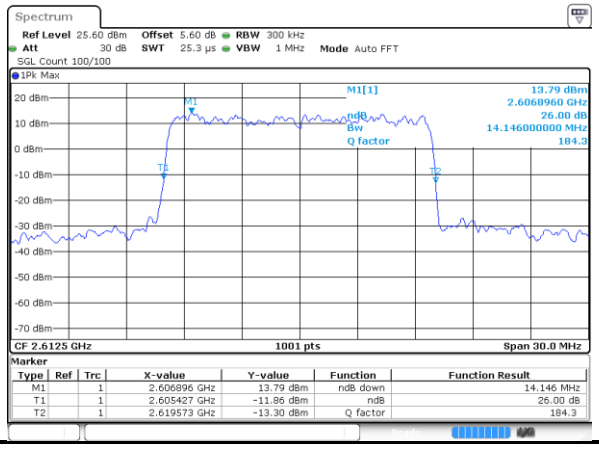
Middle Channel / 15MHz / QPSK



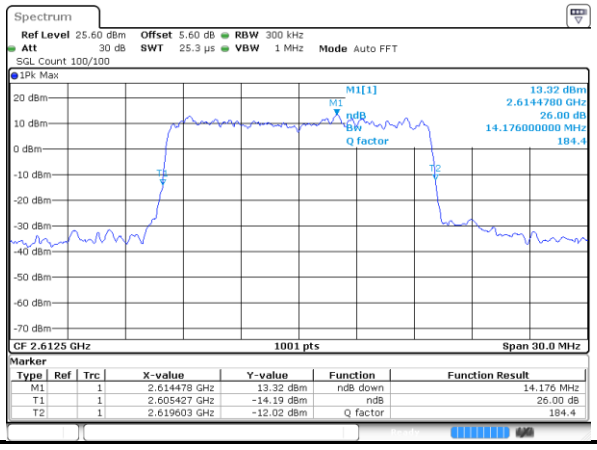
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

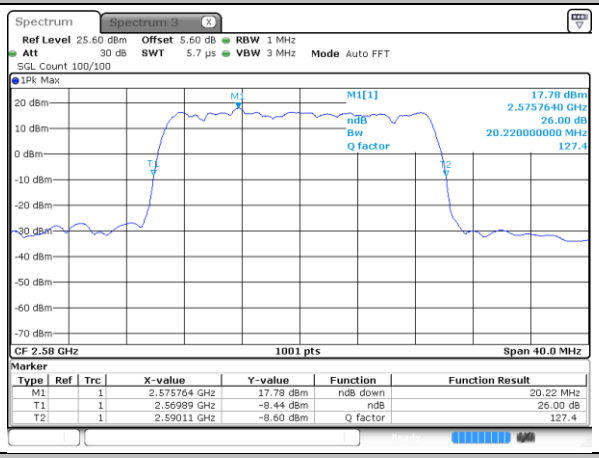


Highest Channel / 15MHz / 16QAM

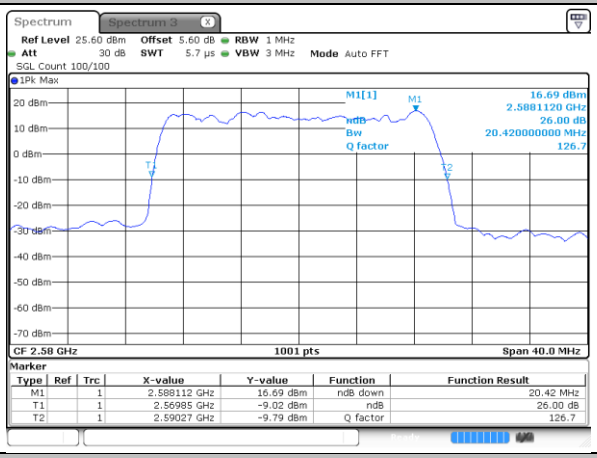


LTE Band 38

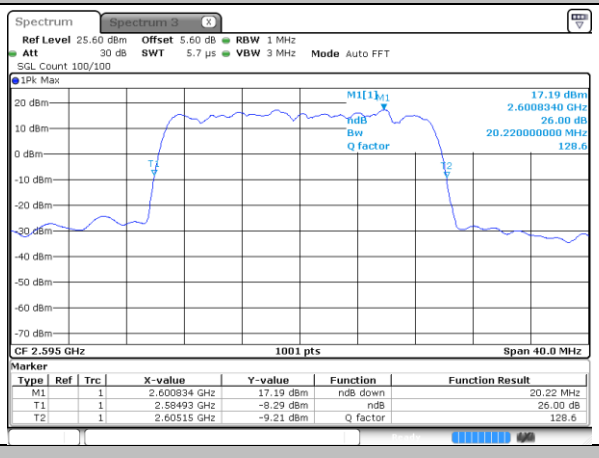
Lowest Channel / 20MHz / QPSK



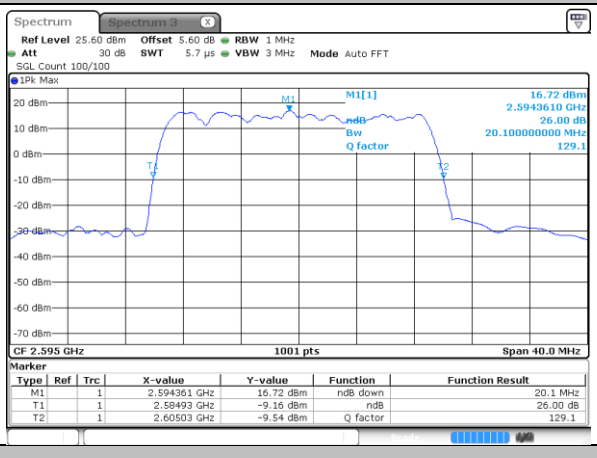
Lowest Channel / 20MHz / 16QAM



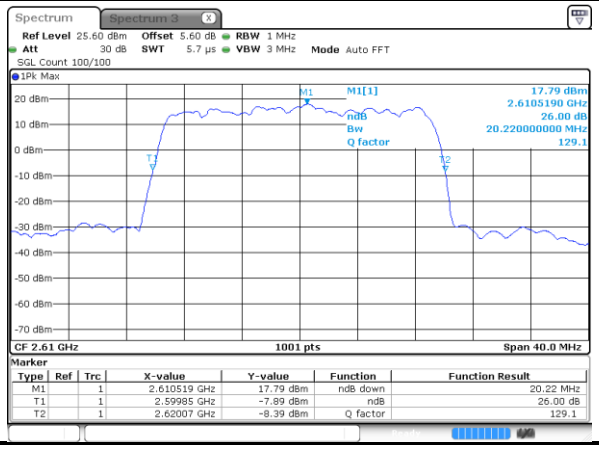
Middle Channel / 20MHz / QPSK



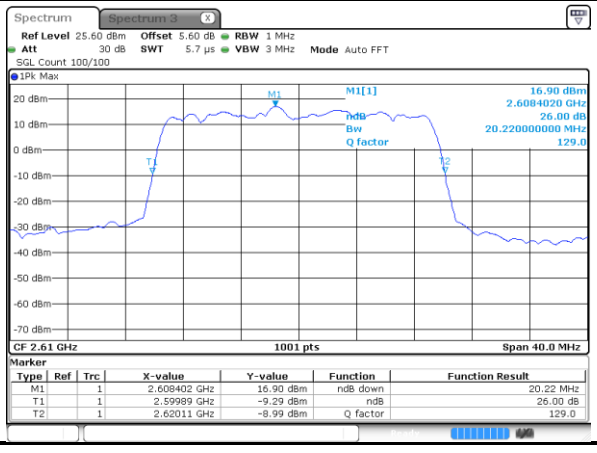
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

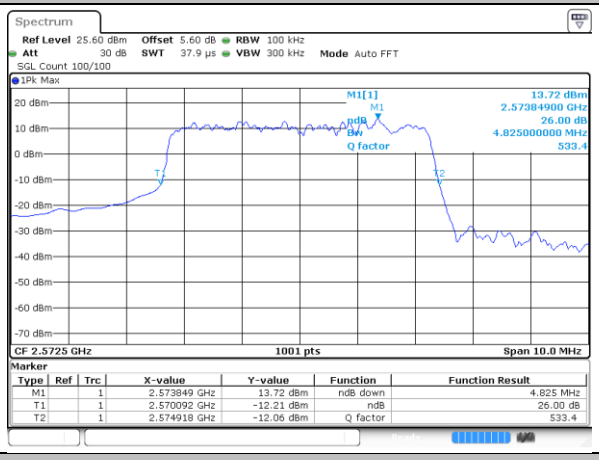


Highest Channel / 20MHz / 16QAM

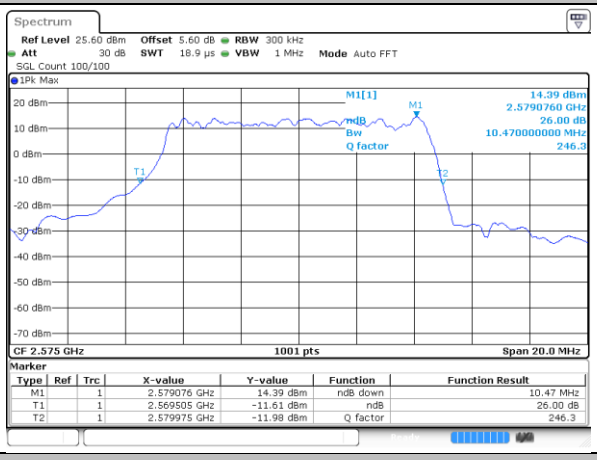


LTE Band 38

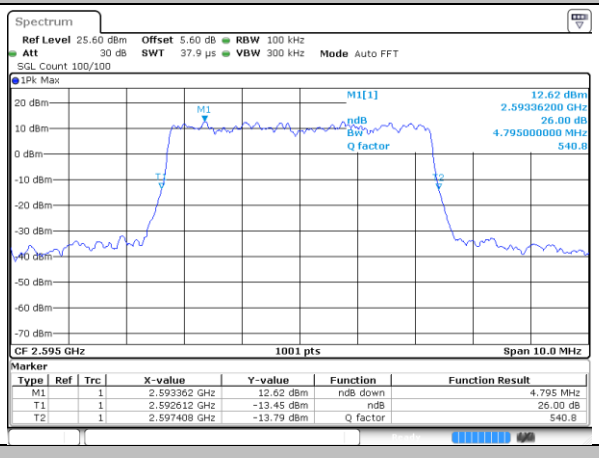
Lowest Channel / 5MHz / 64QAM



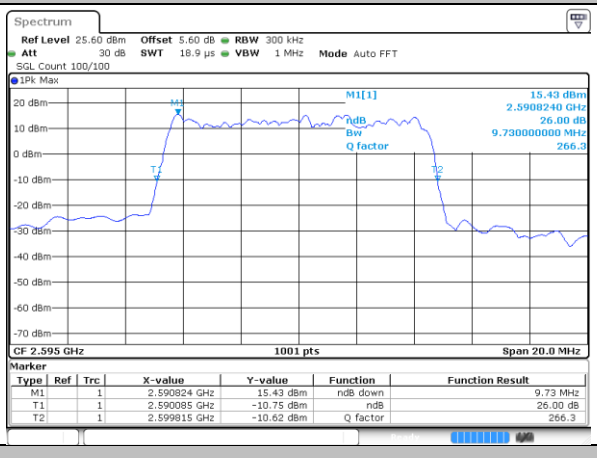
Lowest Channel / 10MHz / 64QAM



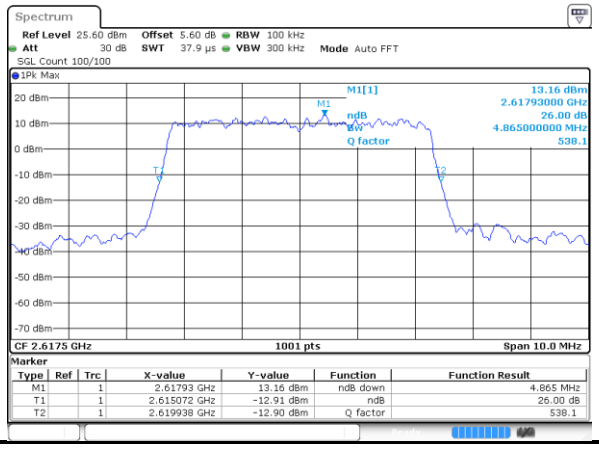
Middle Channel / 5MHz / 64QAM



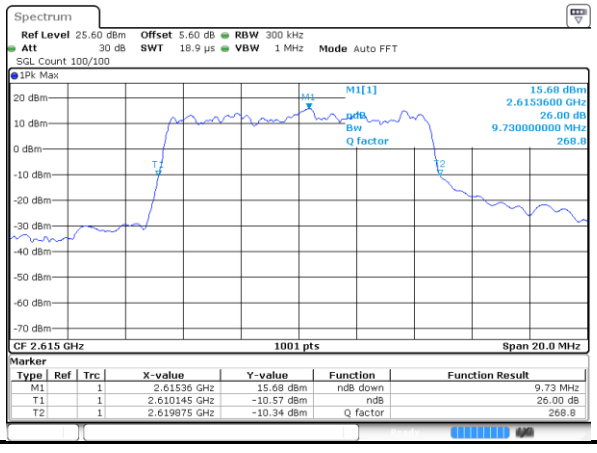
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

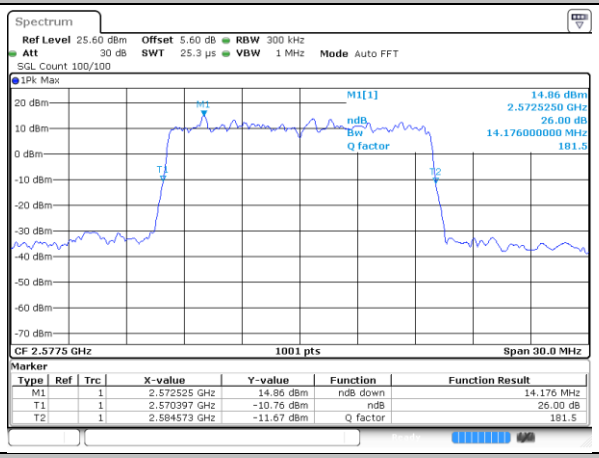


Highest Channel / 10MHz / 64QAM

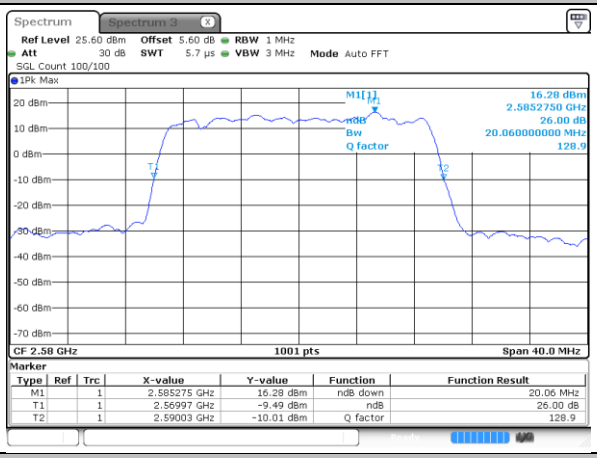


LTE Band 38

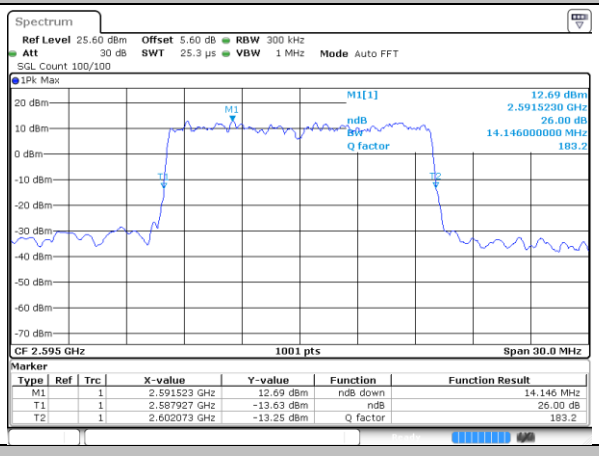
Lowest Channel / 15MHz / 64QAM



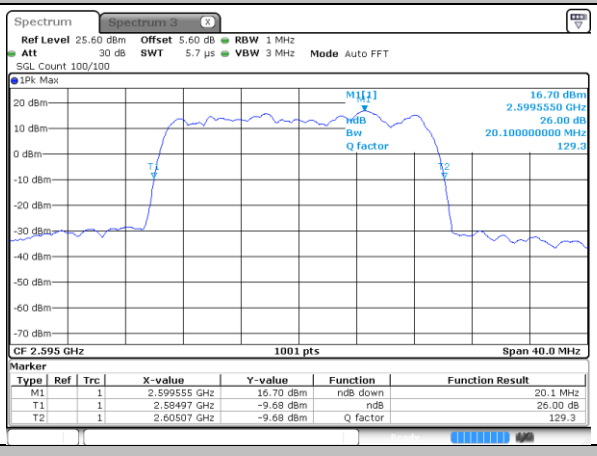
Lowest Channel / 20MHz / 64QAM



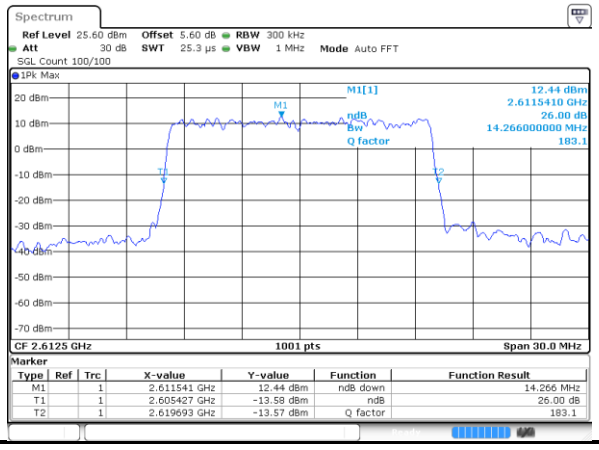
Middle Channel / 15MHz / 64QAM



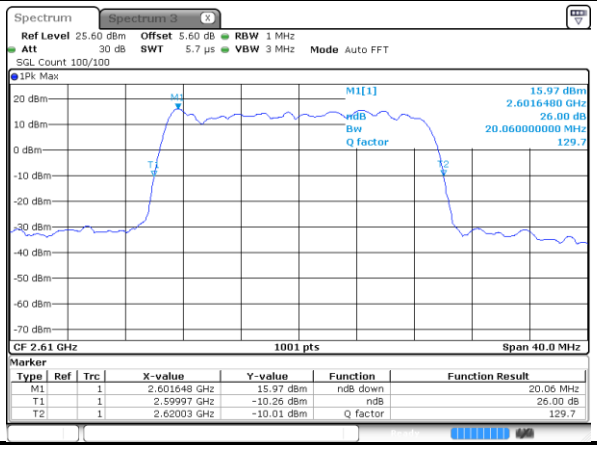
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



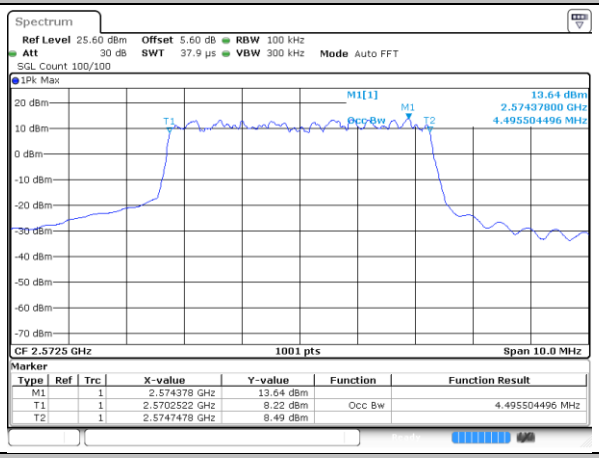
Occupied Bandwidth

Mode	LTE Band 38 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.496	4.505	9.011	9.031	13.457	13.427	18.182	18.302
Middle CH	4.466	4.466	9.011	9.031	13.457	13.457	18.422	18.422
Highest CH	4.486	4.486	9.051	9.111	13.457	13.427	18.382	18.342

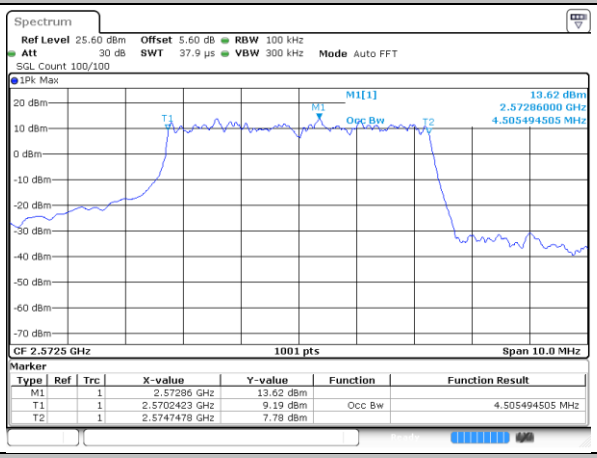
Mode	LTE Band 38 : 99%OBW(MHz)			
BW	5MHz	10MHz	15MHz	20MHz
Mod.	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.486	9.011	13.457	18.382
Middle CH	4.466	9.031	13.397	18.501
Highest CH	4.496	8.971	13.516	18.462

LTE Band 38

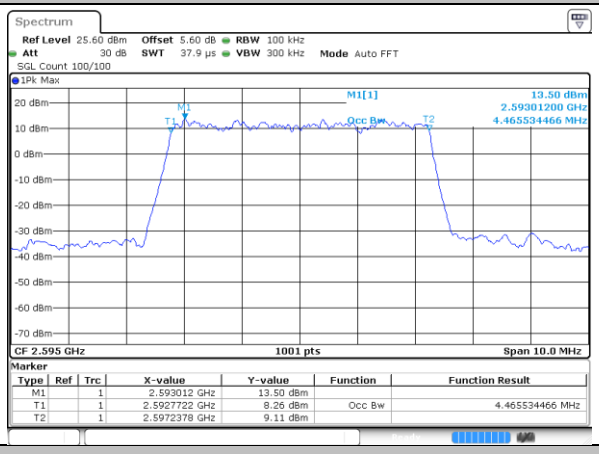
Lowest Channel / 5MHz / QPSK



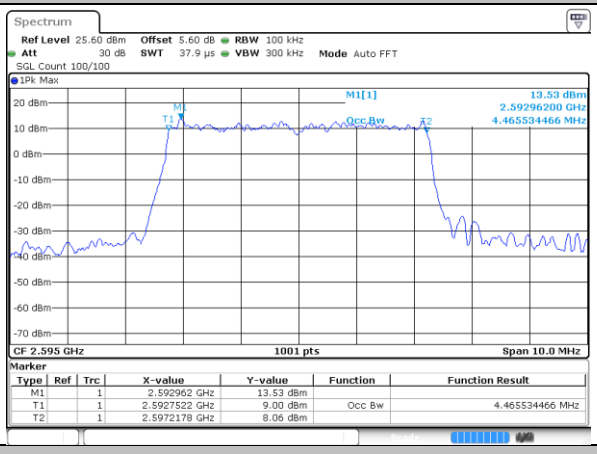
Lowest Channel / 5MHz / 16QAM



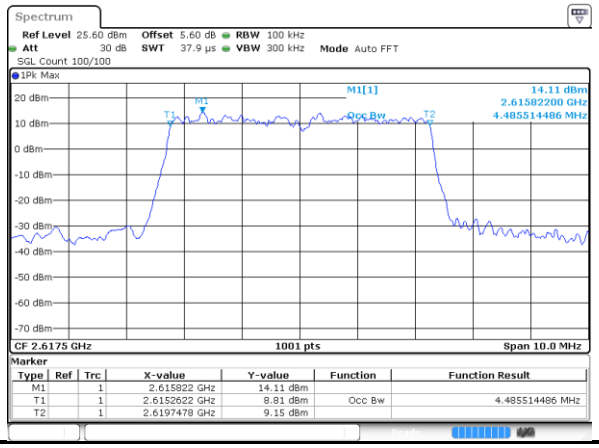
Middle Channel / 5MHz / QPSK



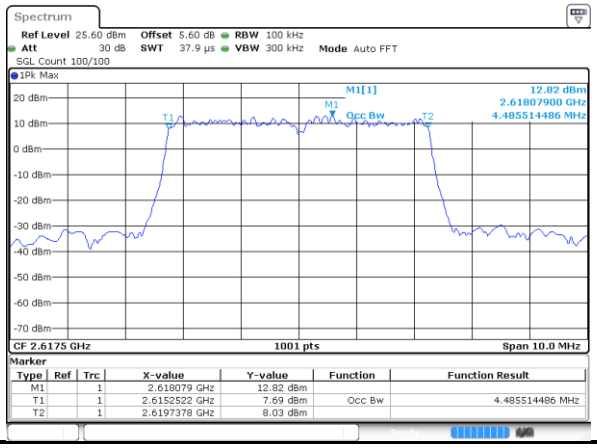
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

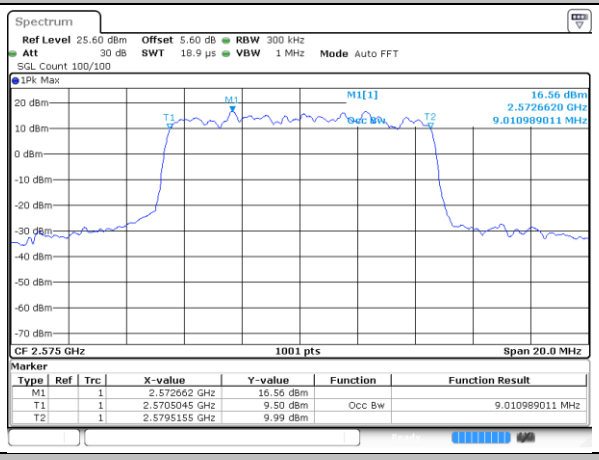


Highest Channel / 5MHz / 16QAM

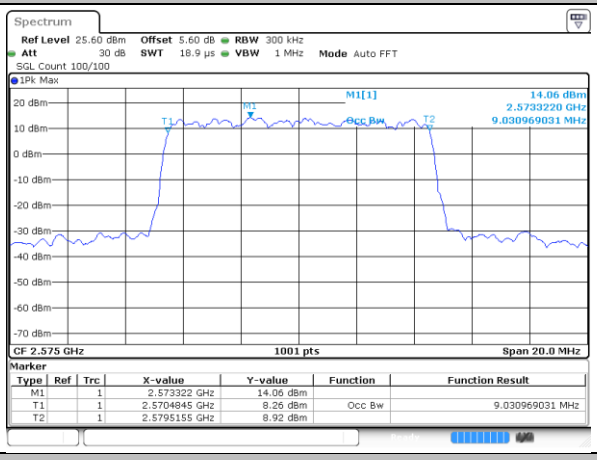


LTE Band 38

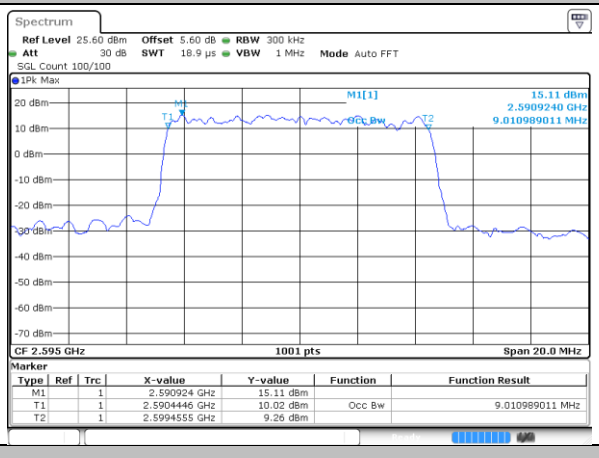
Lowest Channel / 10MHz / QPSK



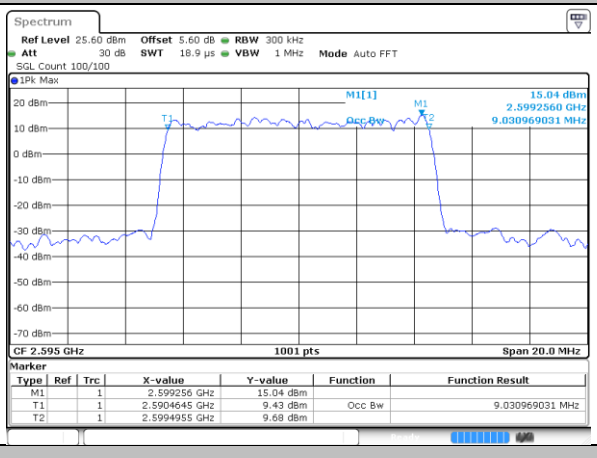
Lowest Channel / 10MHz / 16QAM



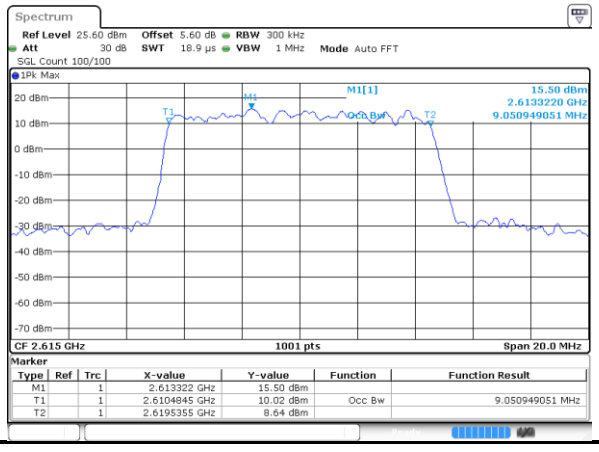
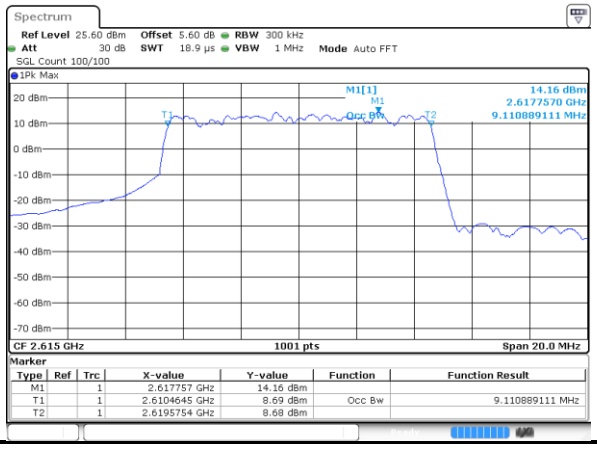
Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM