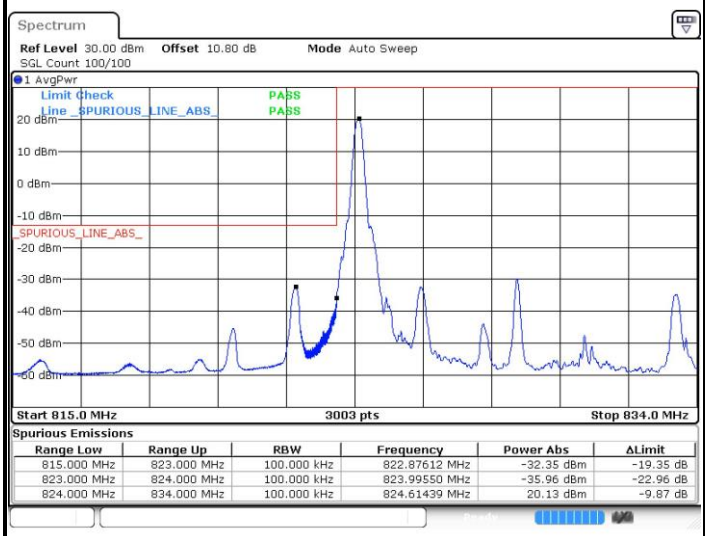
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB

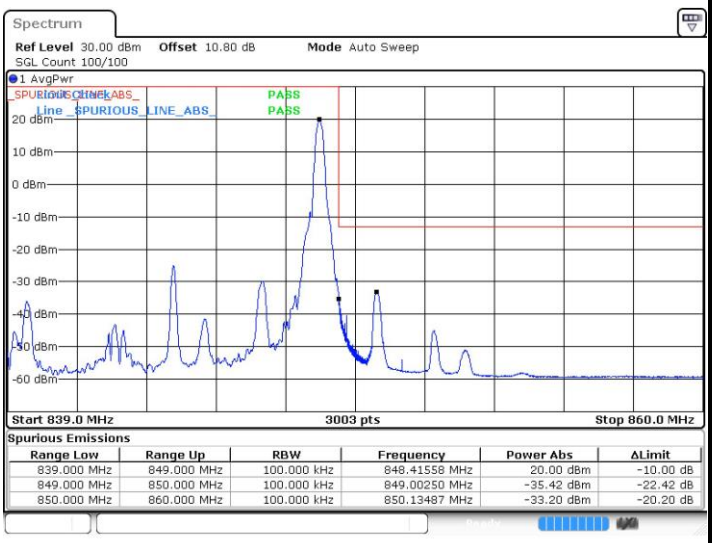


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.87612 MHz	-32.35 dBm	-19.35 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99550 MHz	-35.96 dBm	-22.96 dB
824.000 MHz	834.000 MHz	100.000 kHz	824.61439 MHz	20.13 dBm	-9.87 dB

Date: 2.MAY.2017 16:17:15

Highest Band Edge / 1 RB

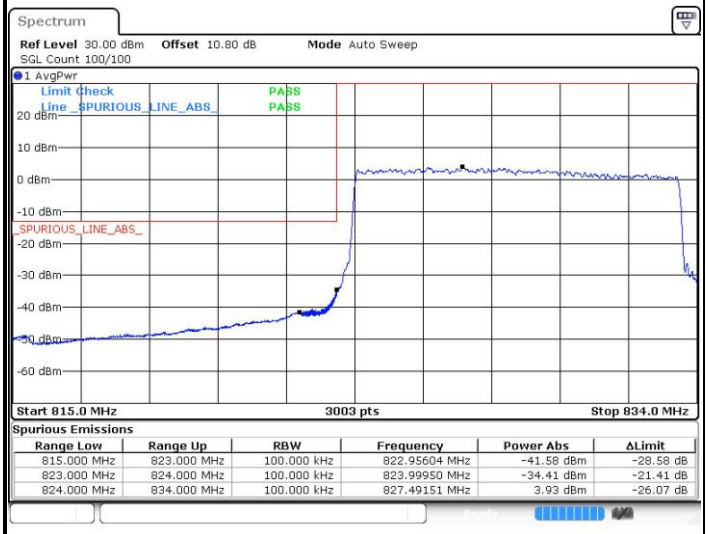


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	848.41558 MHz	20.00 dBm	-10.00 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.00250 MHz	-35.42 dBm	-22.42 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.13487 MHz	-33.20 dBm	-20.20 dB

Date: 2.MAY.2017 16:28:49

Lowest Band Edge / Full RB

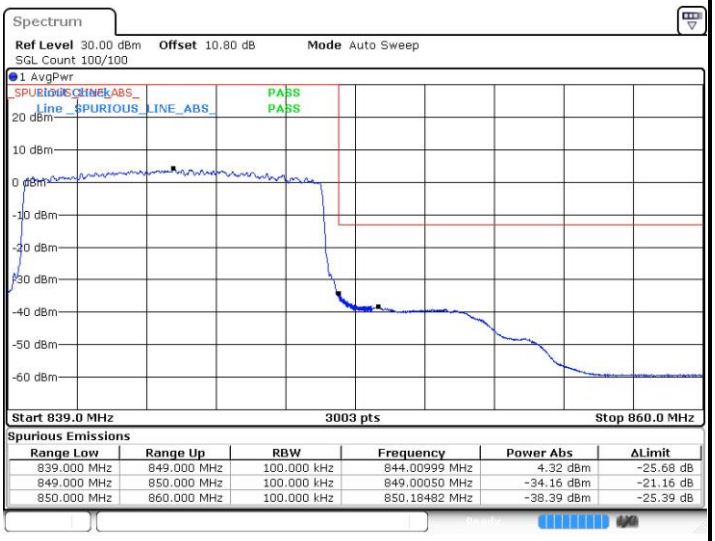


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.95604 MHz	-41.58 dBm	-28.58 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99950 MHz	-34.41 dBm	-21.41 dB
824.000 MHz	834.000 MHz	100.000 kHz	827.49151 MHz	3.93 dBm	-26.07 dB

Date: 2.MAY.2017 16:20:33

Highest Band Edge / Full RB



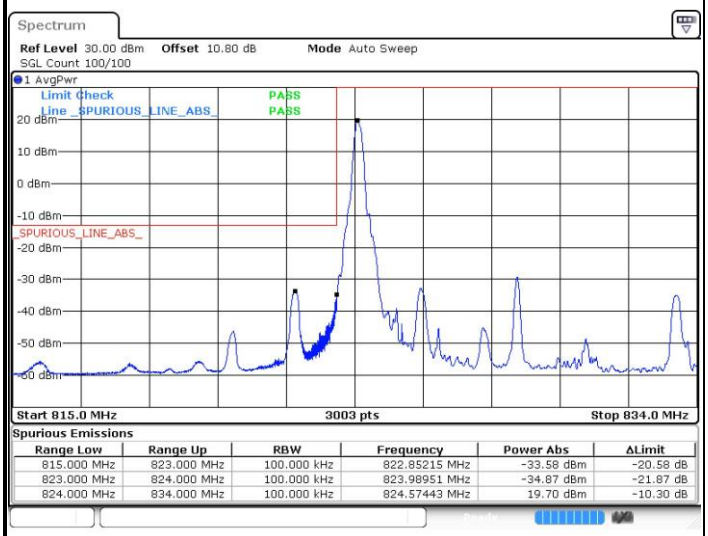
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	844.00999 MHz	4.32 dBm	-25.68 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.00050 MHz	-34.16 dBm	-21.16 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.18482 MHz	-38.39 dBm	-25.39 dB

Date: 2.MAY.2017 16:32:07

LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

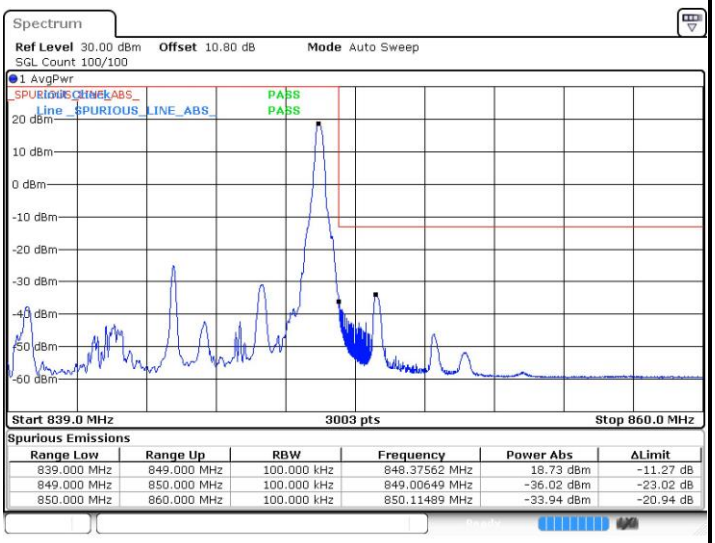


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.85215 MHz	-33.58 dBm	-20.58 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.98951 MHz	-34.87 dBm	-21.87 dB
824.000 MHz	834.000 MHz	100.000 kHz	824.57443 MHz	19.70 dBm	-10.30 dB

Date: 2.MAY.2017 16:18:54

Highest Band Edge / 1 RB

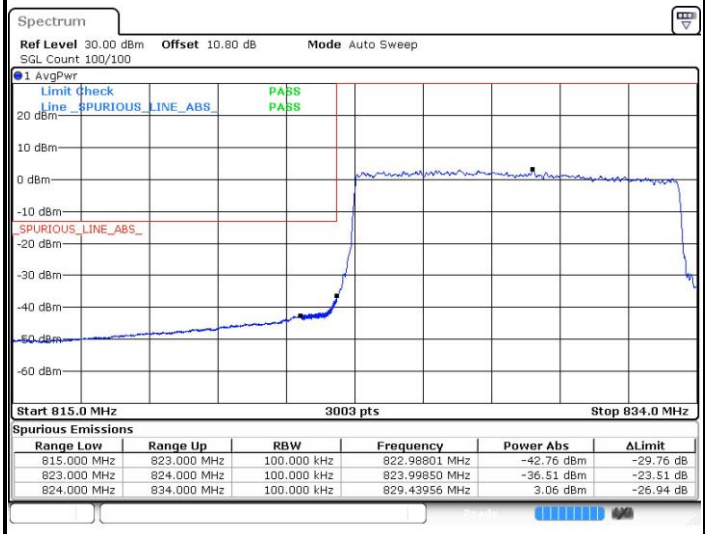


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	848.37562 MHz	18.73 dBm	-11.27 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.00649 MHz	-36.02 dBm	-23.02 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.11489 MHz	-33.94 dBm	-20.94 dB

Date: 2.MAY.2017 16:30:28

Lowest Band Edge / Full RB

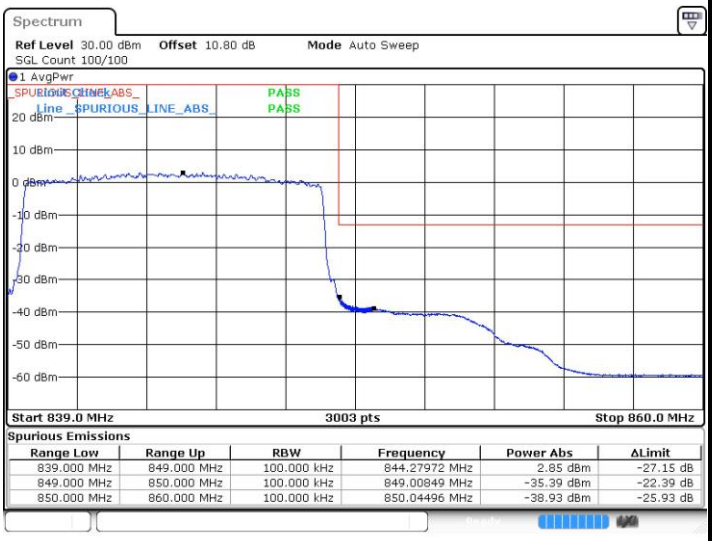


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.98801 MHz	-42.76 dBm	-29.76 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99850 MHz	-36.51 dBm	-23.51 dB
824.000 MHz	834.000 MHz	100.000 kHz	829.43956 MHz	3.06 dBm	-26.94 dB

Date: 2.MAY.2017 16:22:12

Highest Band Edge / Full RB



Spurious Emissions

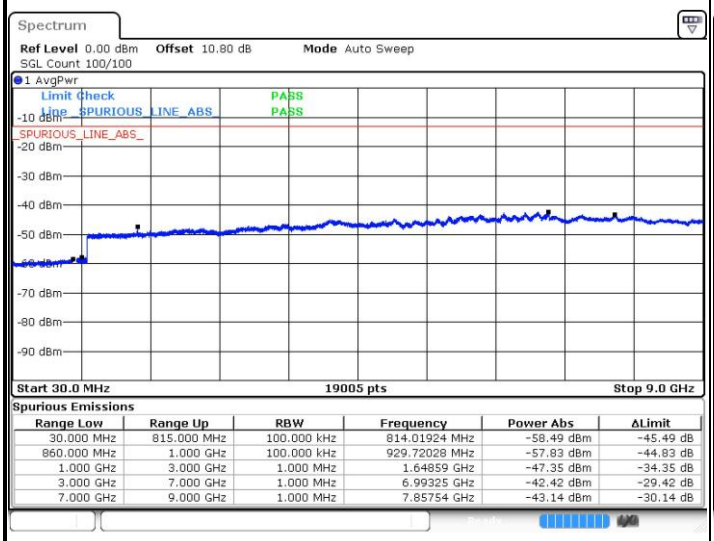
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	844.27972 MHz	2.85 dBm	-27.15 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.00849 MHz	-35.39 dBm	-22.39 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.04496 MHz	-38.93 dBm	-25.93 dB

Date: 2.MAY.2017 16:33:46

Conducted Spurious Emission

LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

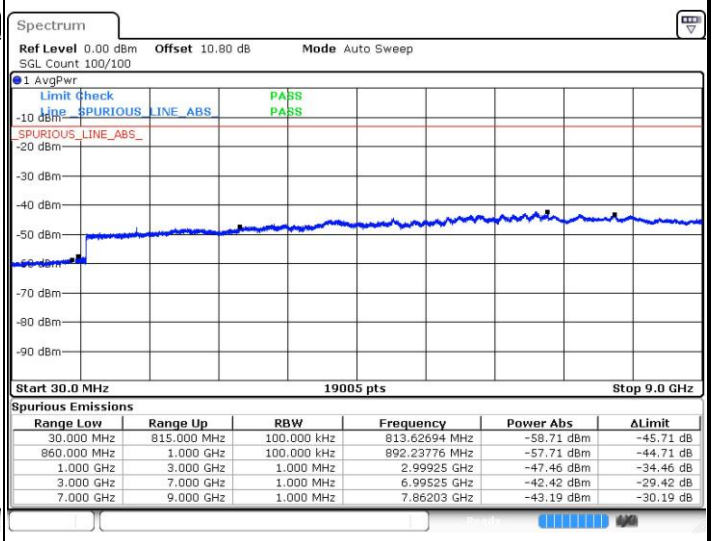


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	814.01924 MHz	-58.49 dBm	-45.49 dB
860.000 MHz	1.000 GHz	100.000 kHz	929.72028 MHz	-57.83 dBm	-44.83 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64859 GHz	-47.35 dBm	-34.35 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99325 GHz	-42.42 dBm	-29.42 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85754 GHz	-43.14 dBm	-30.14 dB

Date: 2.MAY.2017 16:57:20

Lowest Channel / 16QAM

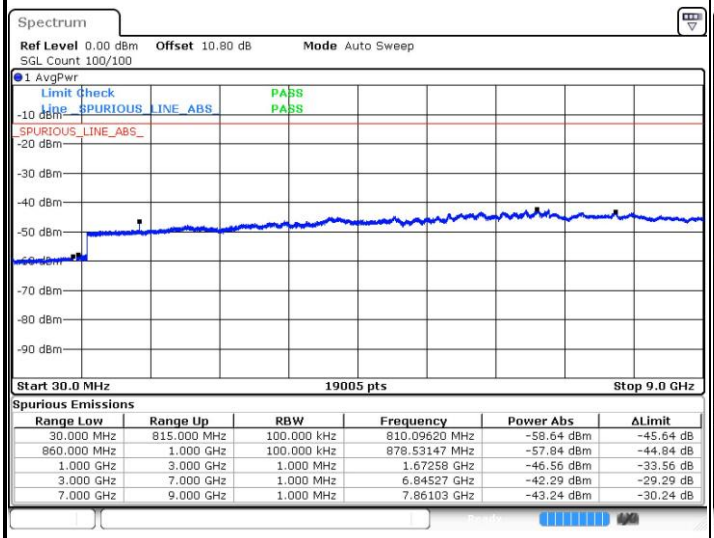


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	813.62694 MHz	-58.71 dBm	-45.71 dB
860.000 MHz	1.000 GHz	100.000 kHz	892.23776 MHz	-57.71 dBm	-44.71 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99925 GHz	-47.46 dBm	-34.46 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99525 GHz	-42.42 dBm	-29.42 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86203 GHz	-43.19 dBm	-30.19 dB

Date: 2.MAY.2017 16:58:14

Middle Channel / QPSK

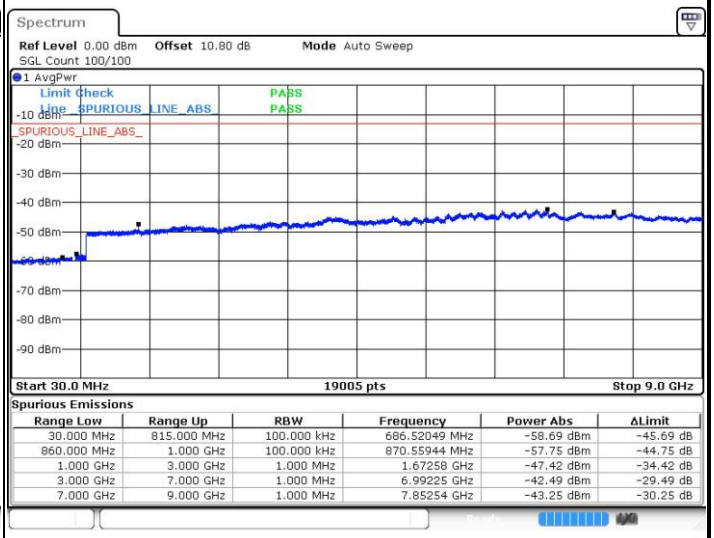


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	810.09620 MHz	-58.64 dBm	-45.64 dB
860.000 MHz	1.000 GHz	100.000 kHz	878.53147 MHz	-57.84 dBm	-44.84 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.67258 GHz	-46.56 dBm	-33.56 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84527 GHz	-42.29 dBm	-29.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86103 GHz	-43.24 dBm	-30.24 dB

Date: 2.MAY.2017 16:59:49

Middle Channel / 16QAM



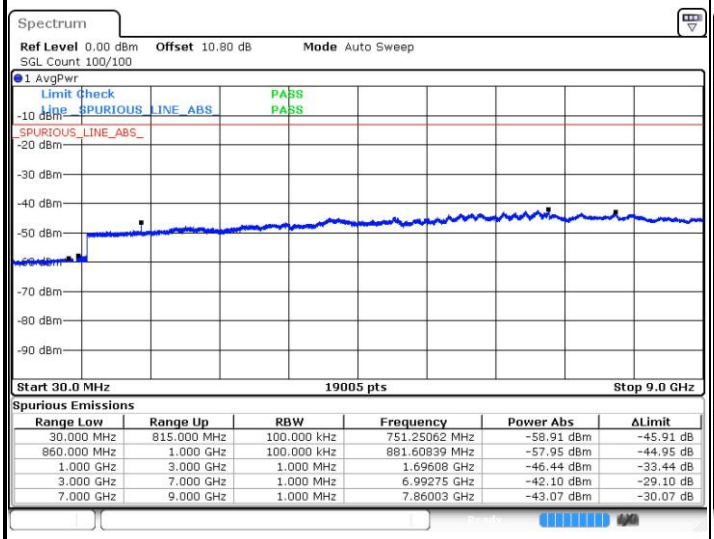
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	686.52049 MHz	-58.69 dBm	-45.69 dB
860.000 MHz	1.000 GHz	100.000 kHz	870.55944 MHz	-57.75 dBm	-44.75 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.67258 GHz	-47.42 dBm	-34.42 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99225 GHz	-42.49 dBm	-29.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85254 GHz	-43.25 dBm	-30.25 dB

Date: 2.MAY.2017 17:00:44

LTE Band 5 / 1.4MHz

Highest Channel / QPSK

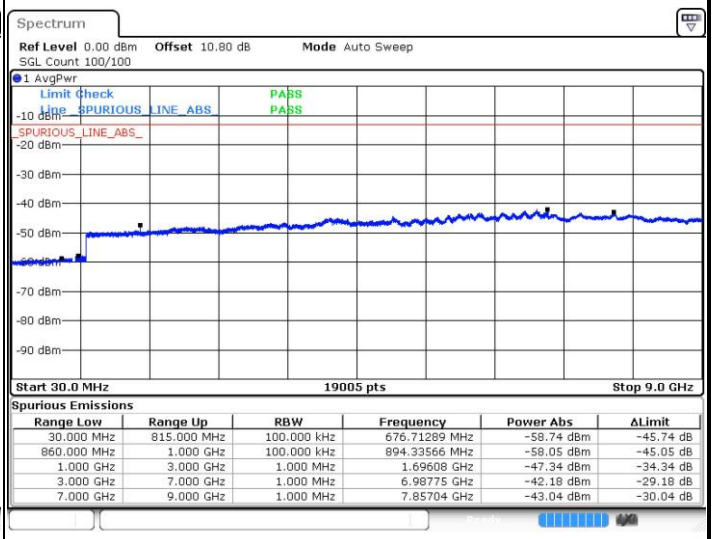


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	751.25062 MHz	-58.91 dBm	-45.91 dB
860.000 MHz	1.000 GHz	100.000 kHz	881.60839 MHz	-57.95 dBm	-44.95 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.69608 GHz	-46.44 dBm	-33.44 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99275 GHz	-42.10 dBm	-29.10 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86003 GHz	-43.07 dBm	-30.07 dB

Date: 2.MAY.2017 17:08:55

Highest Channel / 16QAM



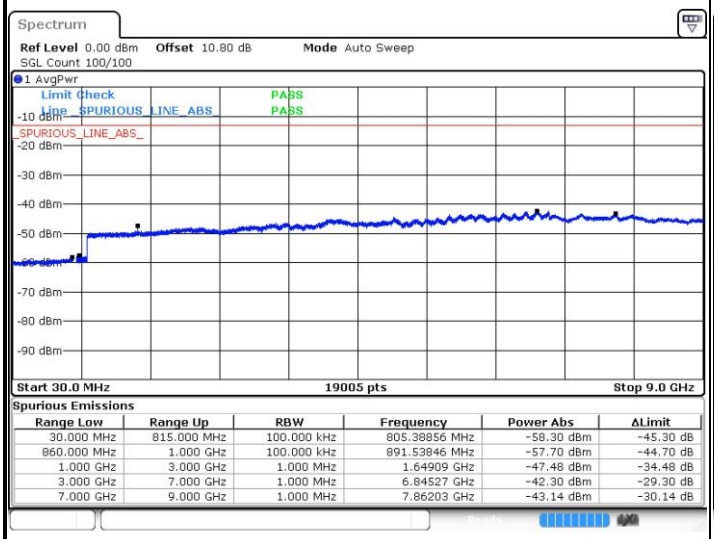
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	676.71289 MHz	-58.74 dBm	-45.74 dB
860.000 MHz	1.000 GHz	100.000 kHz	894.33566 MHz	-58.05 dBm	-45.05 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.69608 GHz	-47.34 dBm	-34.34 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98775 GHz	-42.18 dBm	-29.18 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85704 GHz	-43.04 dBm	-30.04 dB

Date: 2.MAY.2017 17:09:49

LTE Band 5 / 3MHz

Lowest Channel / QPSK

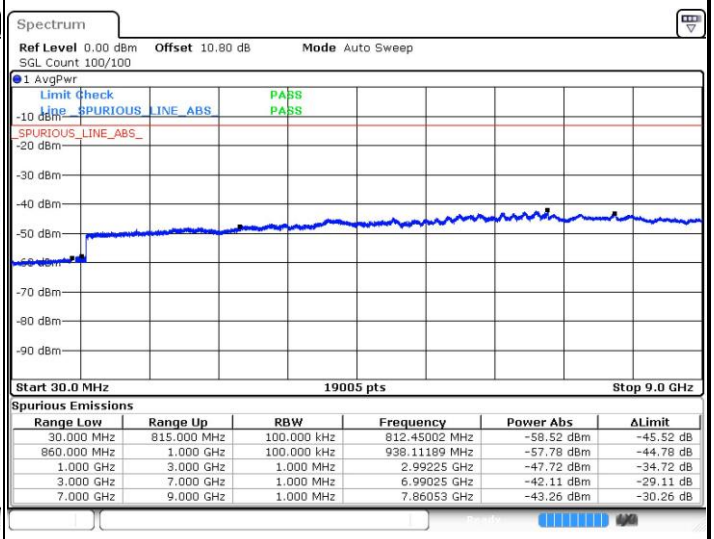


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	805.38856 MHz	-58.30 dBm	-45.30 dB
860.000 MHz	1.000 GHz	100.000 kHz	891.53846 MHz	-57.70 dBm	-44.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64909 GHz	-47.48 dBm	-34.48 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84527 GHz	-42.30 dBm	-29.30 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86203 GHz	-43.14 dBm	-30.14 dB

Date: 2.MAY.2017 15:41:27

Lowest Channel / 16QAM



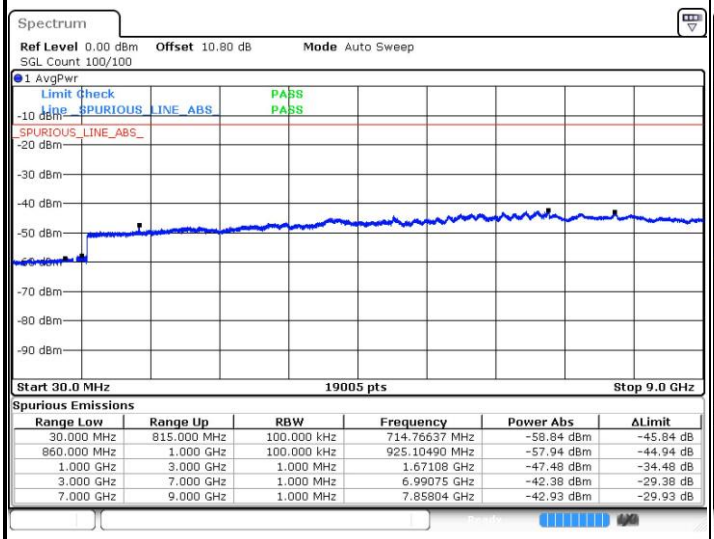
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	812.45002 MHz	-58.52 dBm	-45.52 dB
860.000 MHz	1.000 GHz	100.000 kHz	938.11189 MHz	-57.78 dBm	-44.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99225 GHz	-47.72 dBm	-34.72 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99025 GHz	-42.11 dBm	-29.11 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86053 GHz	-43.26 dBm	-30.26 dB

Date: 2.MAY.2017 15:42:21

LTE Band 5 / 3MHz

Middle Channel / QPSK

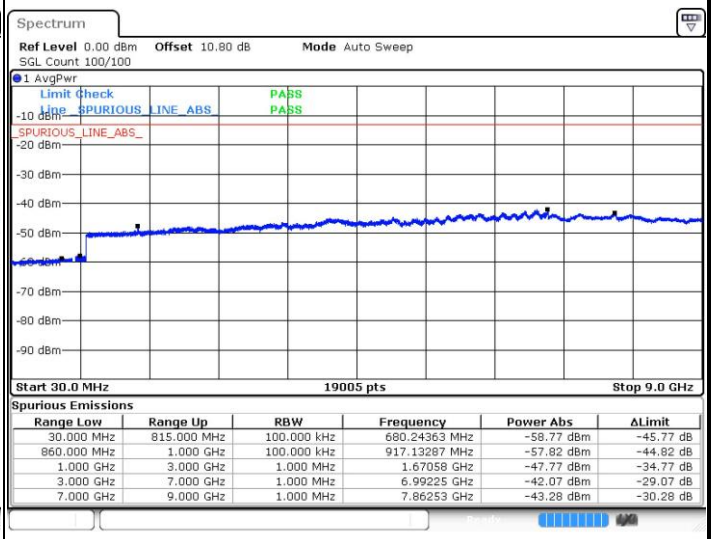


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	714.76637 MHz	-58.84 dBm	-45.84 dB
860.000 MHz	1.000 GHz	100.000 kHz	925.10490 MHz	-57.94 dBm	-44.94 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.67108 GHz	-47.48 dBm	-34.48 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99075 GHz	-42.38 dBm	-29.38 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85804 GHz	-42.93 dBm	-29.93 dB

Date: 2.MAY.2017 15:43:57

Middle Channel / 16QAM

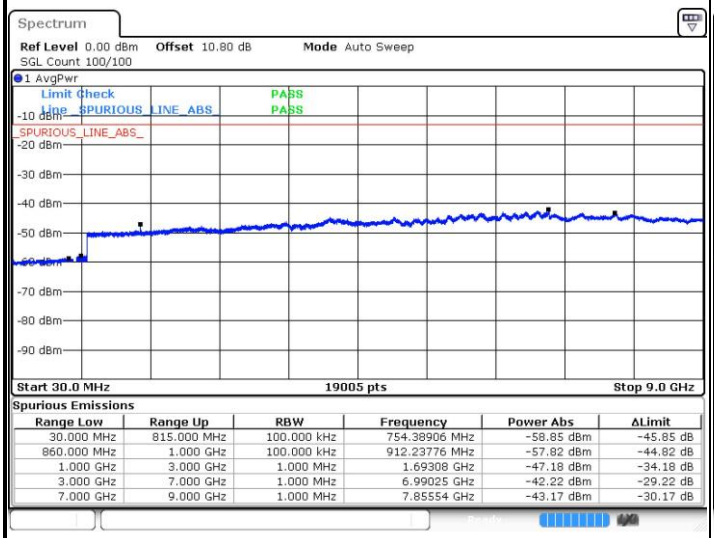


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	680.24363 MHz	-58.77 dBm	-45.77 dB
860.000 MHz	1.000 GHz	100.000 kHz	917.13287 MHz	-57.82 dBm	-44.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.67058 GHz	-47.77 dBm	-34.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99225 GHz	-42.07 dBm	-29.07 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86253 GHz	-43.28 dBm	-30.28 dB

Date: 2.MAY.2017 15:44:52

Highest Channel / QPSK

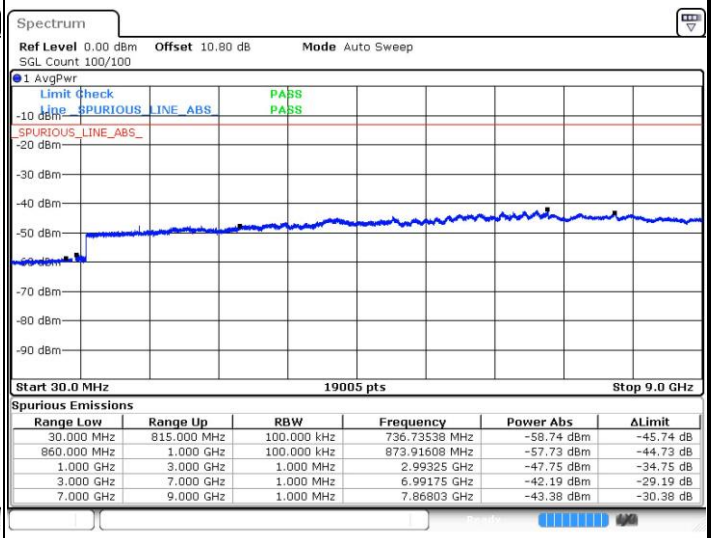


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	754.38906 MHz	-58.85 dBm	-45.85 dB
860.000 MHz	1.000 GHz	100.000 kHz	912.23776 MHz	-57.82 dBm	-44.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.69308 GHz	-47.18 dBm	-34.18 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99025 GHz	-42.22 dBm	-29.22 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85554 GHz	-43.17 dBm	-30.17 dB

Date: 2.MAY.2017 15:53:20

Highest Channel / 16QAM



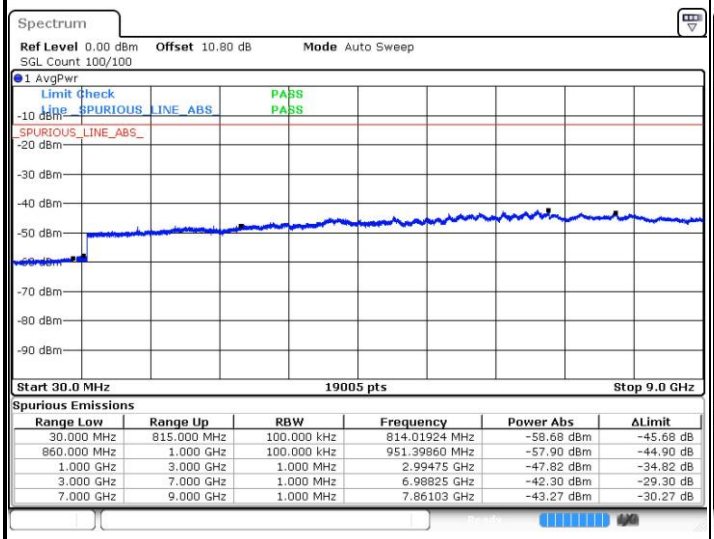
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	736.73538 MHz	-58.74 dBm	-45.74 dB
860.000 MHz	1.000 GHz	100.000 kHz	873.91608 MHz	-57.73 dBm	-44.73 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99325 GHz	-47.75 dBm	-34.75 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99175 GHz	-42.19 dBm	-29.19 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86803 GHz	-43.38 dBm	-30.38 dB

Date: 2.MAY.2017 15:54:14

LTE Band 5 / 5MHz

Lowest Channel / QPSK

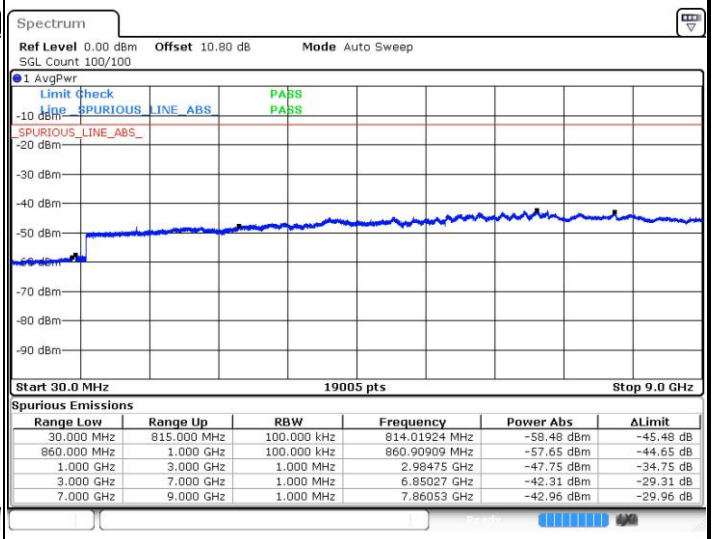


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	814.01924 MHz	-58.68 dBm	-45.68 dB
860.000 MHz	1.000 GHz	100.000 kHz	951.39860 MHz	-57.90 dBm	-44.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99475 GHz	-47.82 dBm	-34.82 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98825 GHz	-42.30 dBm	-29.30 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86103 GHz	-43.27 dBm	-30.27 dB

Date: 2.MAY.2017 16:02:26

Lowest Channel / 16QAM

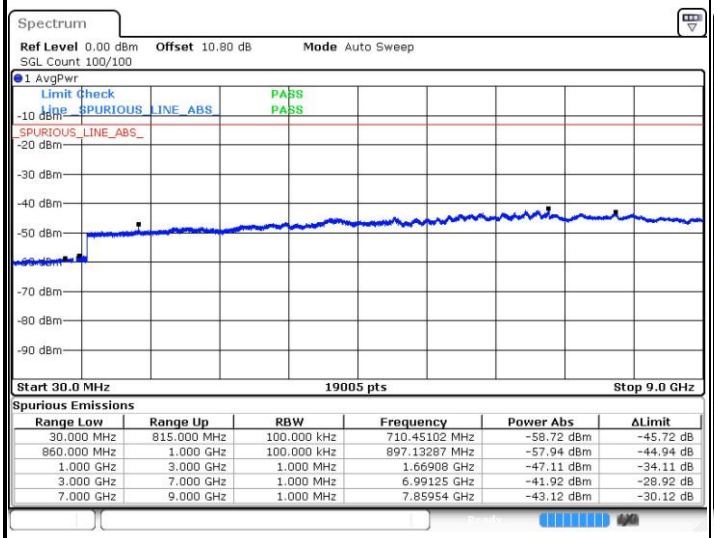


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	814.01924 MHz	-58.48 dBm	-45.48 dB
860.000 MHz	1.000 GHz	100.000 kHz	860.90909 MHz	-57.65 dBm	-44.65 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98475 GHz	-47.75 dBm	-34.75 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85027 GHz	-42.31 dBm	-29.31 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86053 GHz	-42.96 dBm	-29.96 dB

Date: 2.MAY.2017 16:03:20

Middle Channel / QPSK

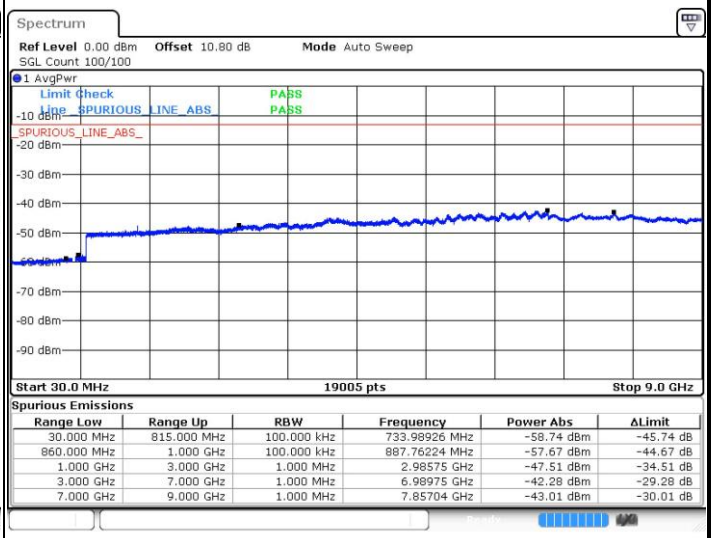


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	710.45102 MHz	-58.72 dBm	-45.72 dB
860.000 MHz	1.000 GHz	100.000 kHz	897.13287 MHz	-57.94 dBm	-44.94 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.66908 GHz	-47.11 dBm	-34.11 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99125 GHz	-41.92 dBm	-28.92 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85954 GHz	-43.12 dBm	-30.12 dB

Date: 2.MAY.2017 16:04:55

Middle Channel / 16QAM



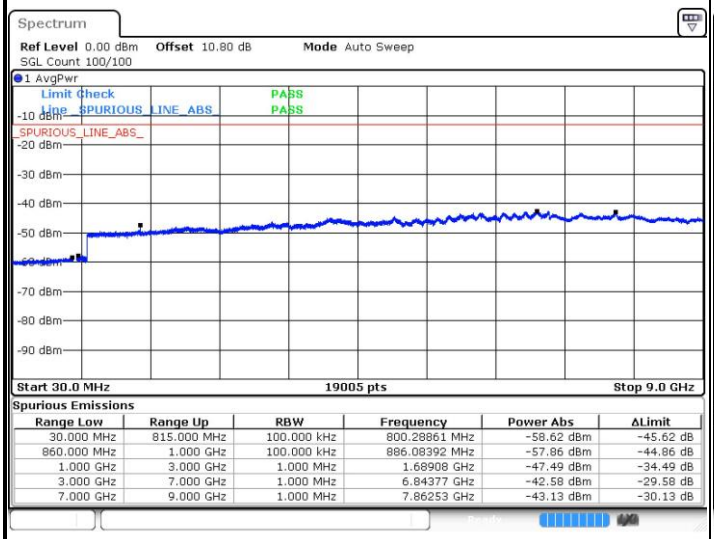
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	733.98926 MHz	-58.74 dBm	-45.74 dB
860.000 MHz	1.000 GHz	100.000 kHz	887.76224 MHz	-57.67 dBm	-44.67 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98575 GHz	-47.51 dBm	-34.51 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98975 GHz	-42.28 dBm	-29.28 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85704 GHz	-43.01 dBm	-30.01 dB

Date: 2.MAY.2017 16:05:49

LTE Band 5 / 5MHz

Highest Channel / QPSK

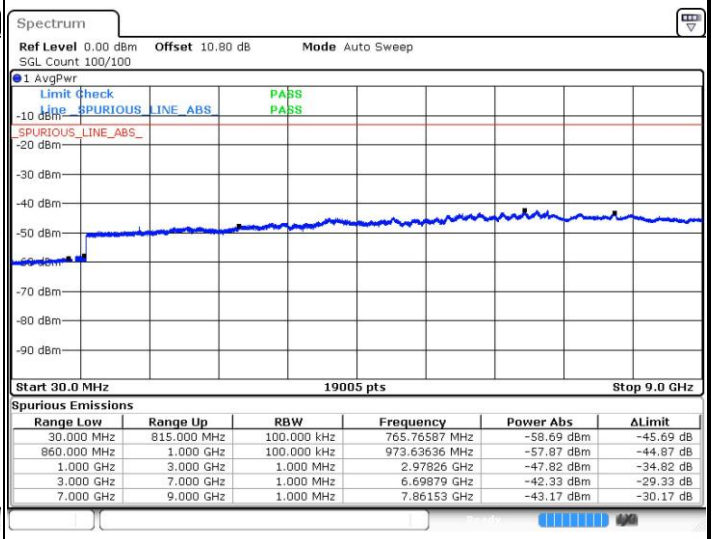


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	800.28861 MHz	-58.62 dBm	-45.62 dB
860.000 MHz	1.000 GHz	100.000 kHz	886.08392 MHz	-57.86 dBm	-44.86 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.68908 GHz	-47.49 dBm	-34.49 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84377 GHz	-42.58 dBm	-29.58 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86253 GHz	-43.13 dBm	-30.13 dB

Date: 2.MAY.2017 16:14:01

Highest Channel / 16QAM



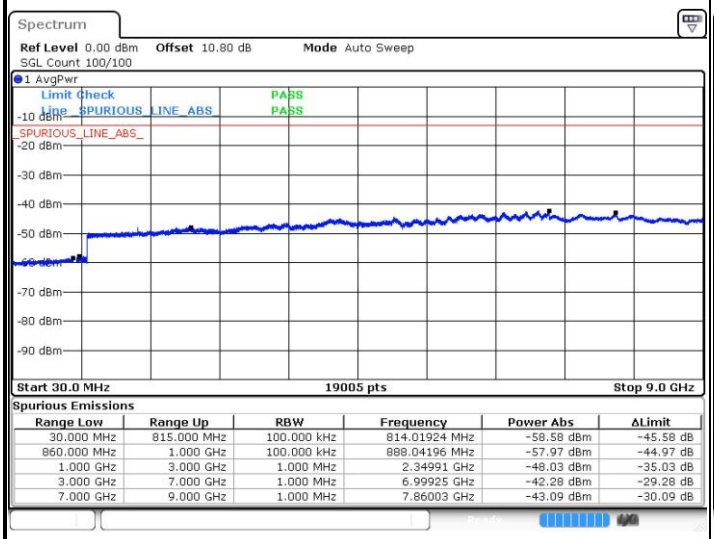
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	765.76587 MHz	-58.69 dBm	-45.69 dB
860.000 MHz	1.000 GHz	100.000 kHz	973.63636 MHz	-57.87 dBm	-44.87 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97826 GHz	-47.82 dBm	-34.82 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.69879 GHz	-42.33 dBm	-29.33 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86153 GHz	-43.17 dBm	-30.17 dB

Date: 2.MAY.2017 16:14:55

LTE Band 5 / 10MHz

Lowest Channel / QPSK

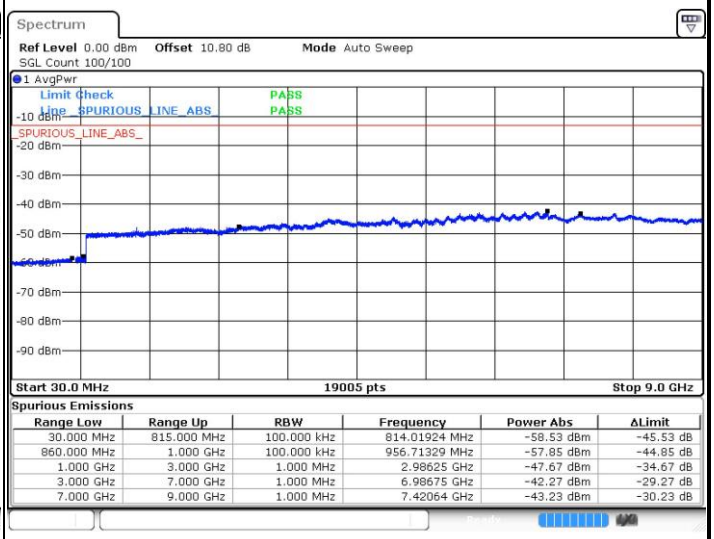


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	814.01924 MHz	-58.58 dBm	-45.58 dB
860.000 MHz	1.000 GHz	100.000 kHz	888.04196 MHz	-57.97 dBm	-44.97 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.34991 GHz	-48.03 dBm	-35.03 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99925 GHz	-42.28 dBm	-29.28 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86003 GHz	-43.09 dBm	-30.09 dB

Date: 2.MAY.2017 16:23:07

Lowest Channel / 16QAM



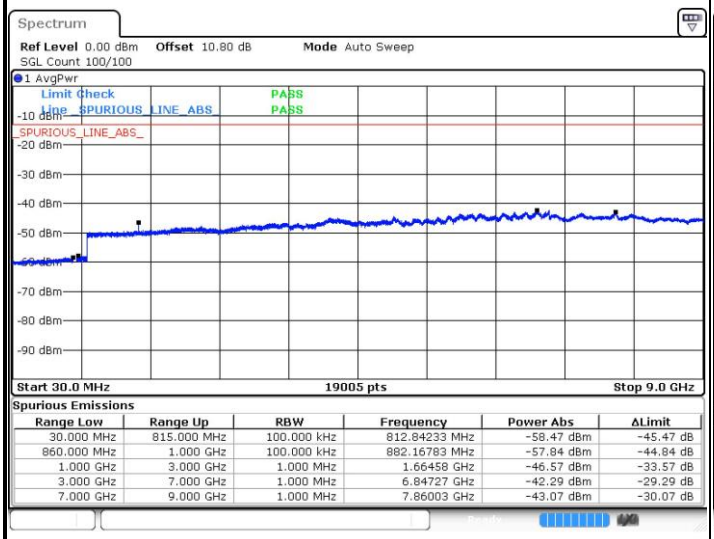
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	814.01924 MHz	-58.53 dBm	-45.53 dB
860.000 MHz	1.000 GHz	100.000 kHz	956.71329 MHz	-57.85 dBm	-44.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98625 GHz	-47.67 dBm	-34.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98675 GHz	-42.27 dBm	-29.27 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.42064 GHz	-43.23 dBm	-30.23 dB

Date: 2.MAY.2017 16:24:01

LTE Band 5 / 10MHz

Middle Channel / QPSK

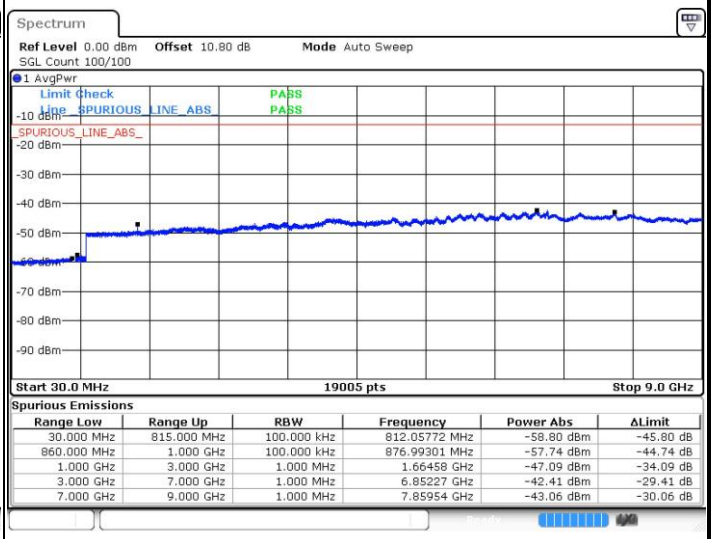


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	812.84233 MHz	-58.47 dBm	-45.47 dB
860.000 MHz	1.000 GHz	100.000 kHz	882.16783 MHz	-57.84 dBm	-44.84 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.66458 GHz	-46.57 dBm	-33.57 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84727 GHz	-42.29 dBm	-29.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86003 GHz	-43.07 dBm	-30.07 dB

Date: 2.MAY.2017 16:25:36

Middle Channel / 16QAM

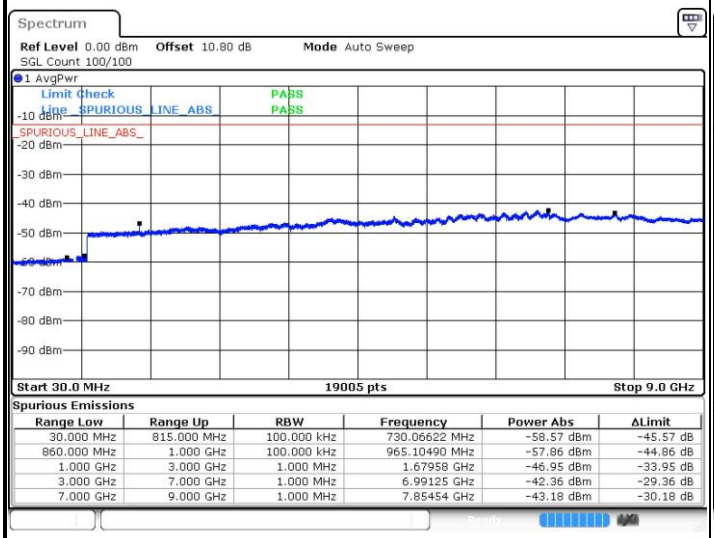


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	812.05772 MHz	-58.80 dBm	-45.80 dB
860.000 MHz	1.000 GHz	100.000 kHz	876.99301 MHz	-57.74 dBm	-44.74 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.66458 GHz	-47.09 dBm	-34.09 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85227 GHz	-42.41 dBm	-29.41 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85954 GHz	-43.06 dBm	-30.06 dB

Date: 2.MAY.2017 16:26:30

Highest Channel / QPSK

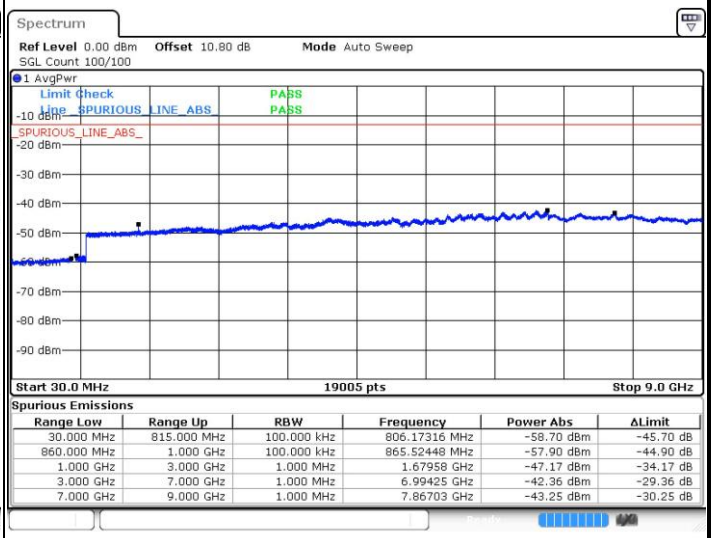


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	730.06622 MHz	-58.57 dBm	-45.57 dB
860.000 MHz	1.000 GHz	100.000 kHz	965.10490 MHz	-57.86 dBm	-44.86 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.67958 GHz	-46.95 dBm	-33.95 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99125 GHz	-42.36 dBm	-29.36 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85454 GHz	-43.18 dBm	-30.18 dB

Date: 2.MAY.2017 16:34:41

Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	806.17316 MHz	-58.70 dBm	-45.70 dB
860.000 MHz	1.000 GHz	100.000 kHz	865.52448 MHz	-57.90 dBm	-44.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.67958 GHz	-47.17 dBm	-34.17 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99425 GHz	-42.36 dBm	-29.36 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86703 GHz	-43.25 dBm	-30.25 dB

Date: 2.MAY.2017 16:35:35

Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0111	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0100	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0114	
-20	Normal Voltage	0.0110	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =4.0 V.；Battery End Point (BEP) =3.7 V.；Maximum Voltage =4.0 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

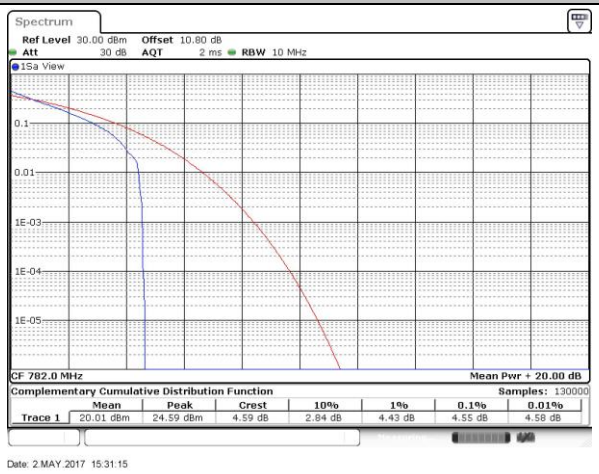
LTE Band 13

Peak-to-Average Ratio

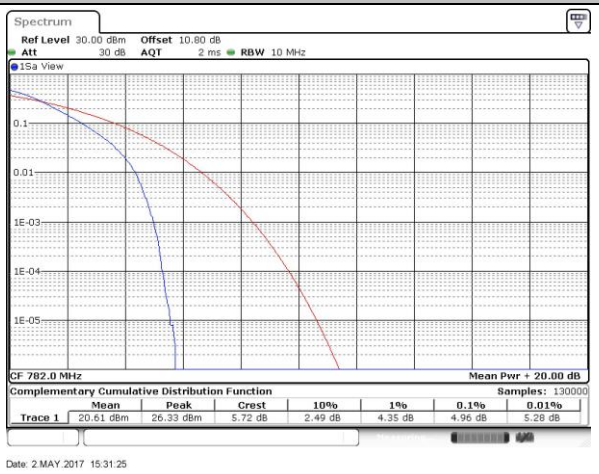
Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.55	4.96	5.54	5.86	
Highest CH	-	-	-	-	

LTE Band 13 / 10MHz / QPSK

Middle Channel/ 1RB

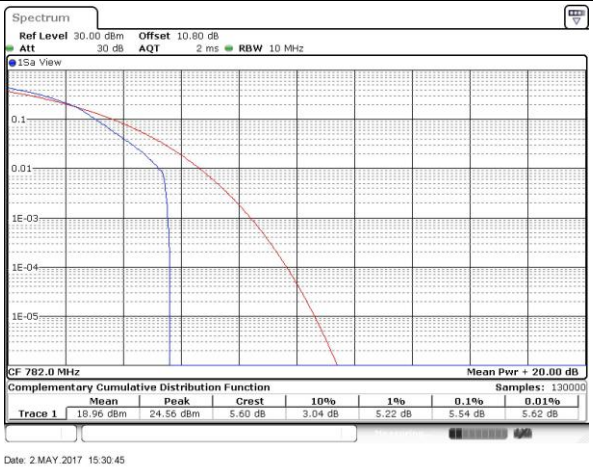


Middle Channel / Full RB

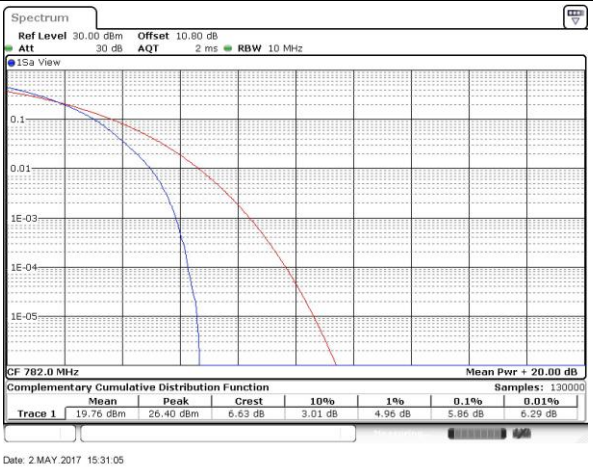


LTE Band 13 / 10MHz / 16QAM

Middle Channel/ 1RB



Middle Channel / Full RB

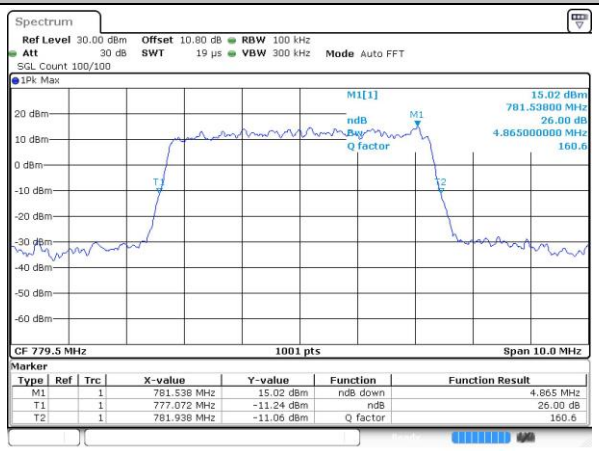


26dB Bandwidth

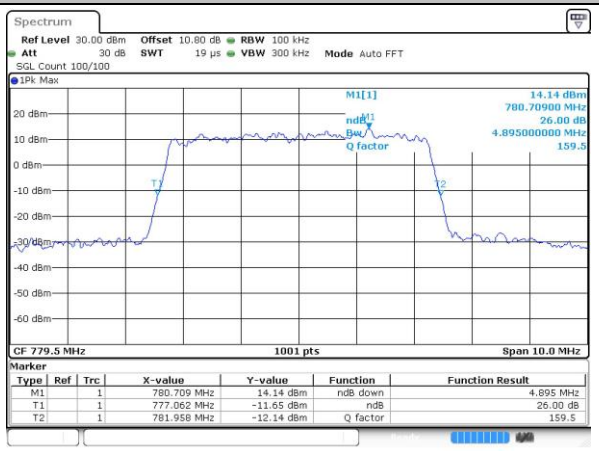
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.865	4.895	-	-	-	-	-	-
Middle CH	-	-	-	-	4.895	4.835	9.75	9.79	-	-	-	-
Highest CH	-	-	-	-	4.925	4.985	-	-	-	-	-	-

LTE Band 13

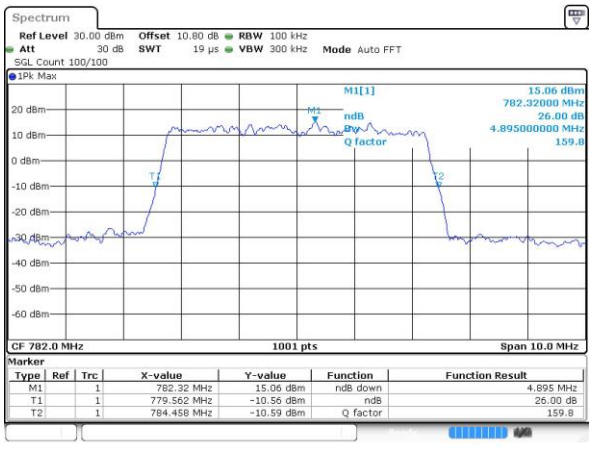
Lowest Channel / 5MHz / QPSK



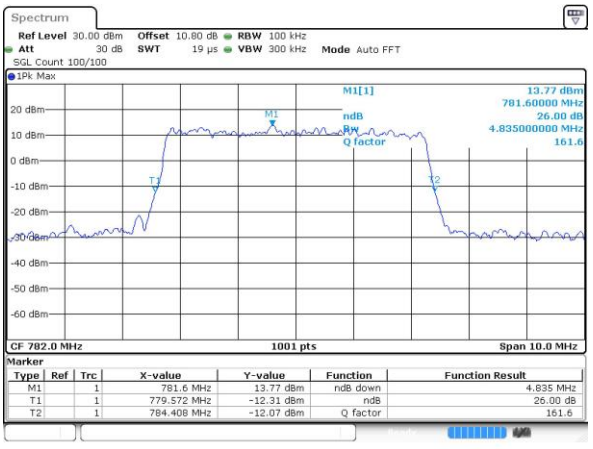
Lowest Channel / 5MHz / 16QAM



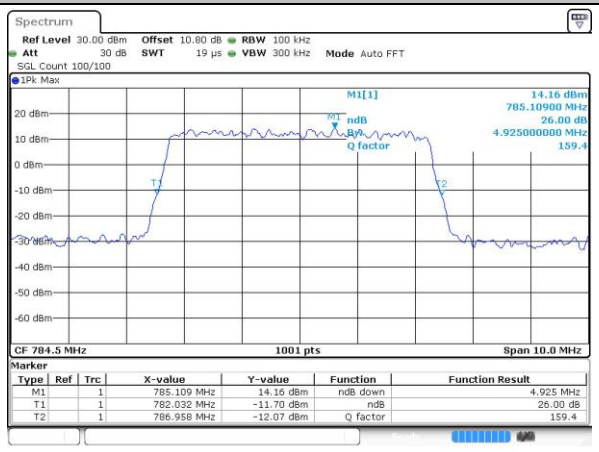
Middle Channel / 5MHz / QPSK



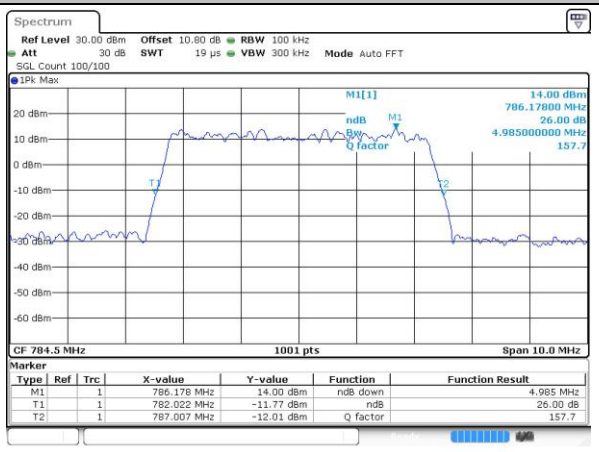
Middle Channel / 5MHz / 16QAM

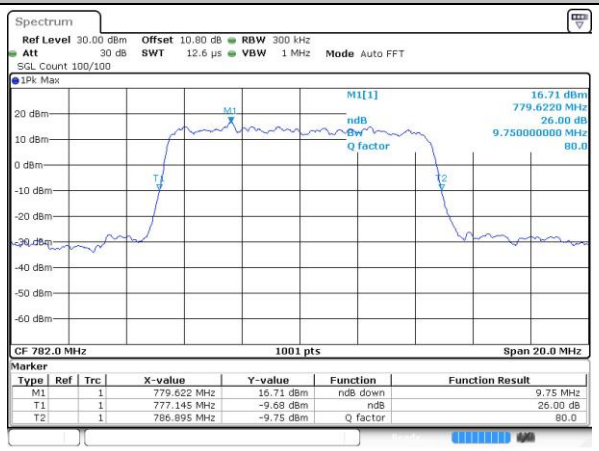
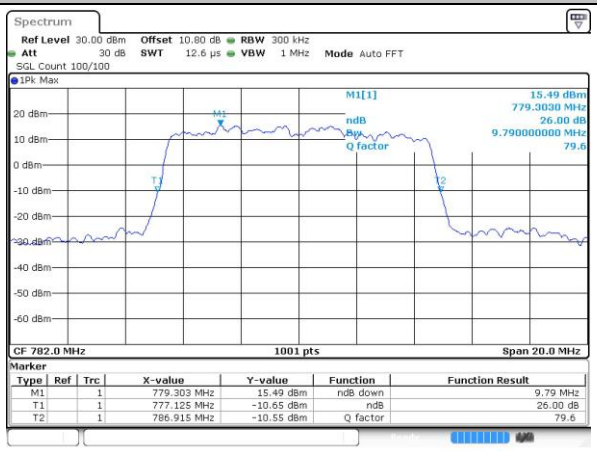


Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM



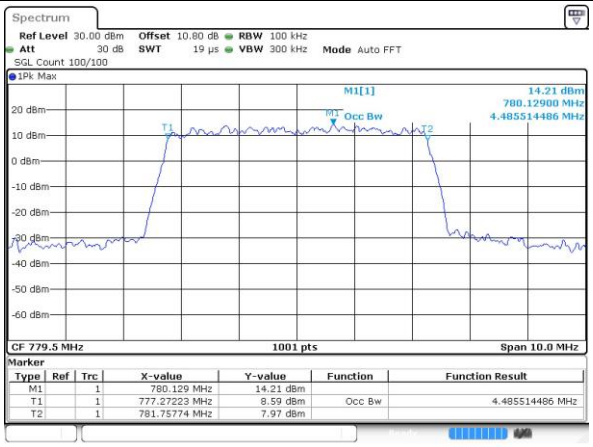
LTE Band 13	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.46	-	-	-	-	-	-
Middle CH	-	-	-	-	4.47	4.49	8.99	8.97	-	-	-	-
Highest CH	-	-	-	-	4.5	4.51	-	-	-	-	-	-

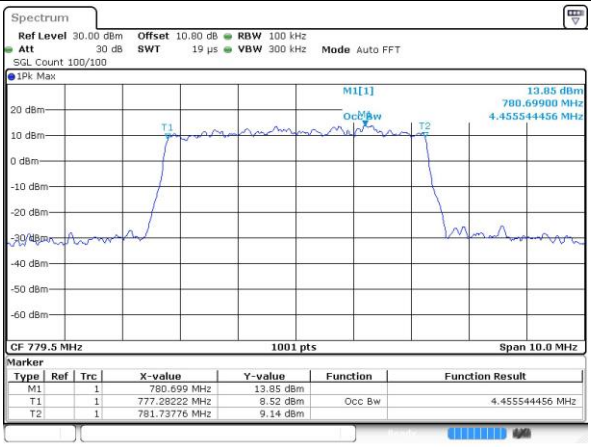
LTE Band 13

Lowest Channel / 5MHz / QPSK



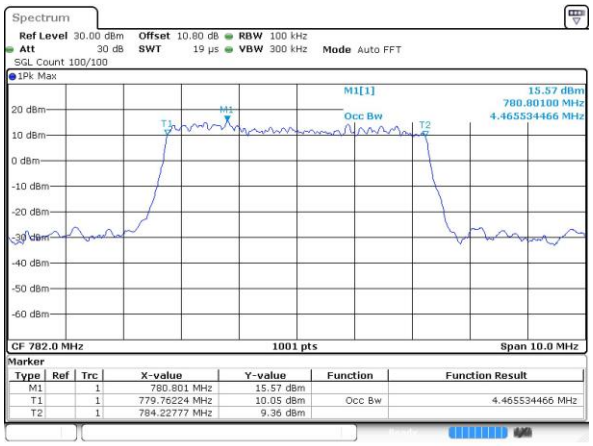
Date: 2.MAY.2017 14:06:44

Lowest Channel / 5MHz / 16QAM



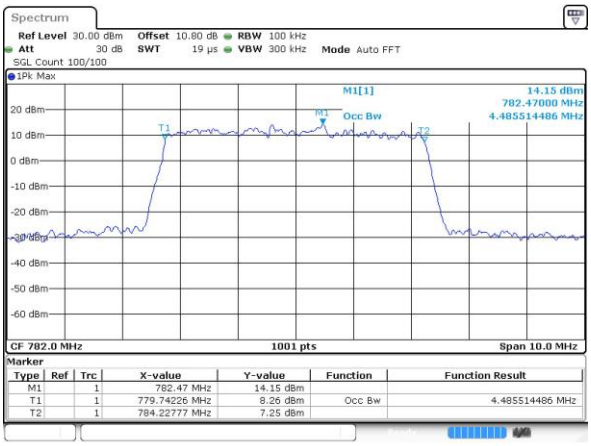
Date: 2.MAY.2017 14:06:55

Middle Channel / 5MHz / QPSK



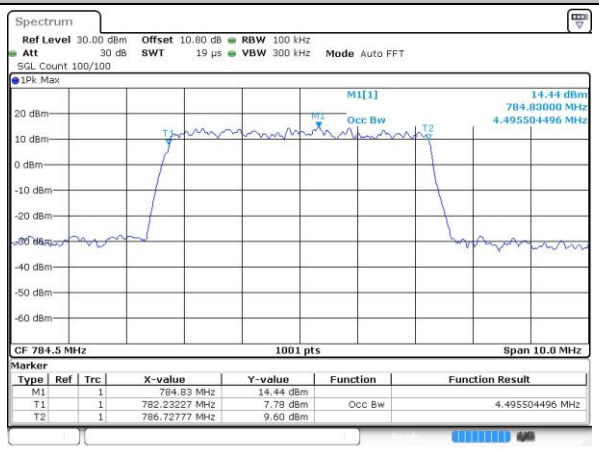
Date: 2.MAY.2017 14:18:10

Middle Channel / 5MHz / 16QAM



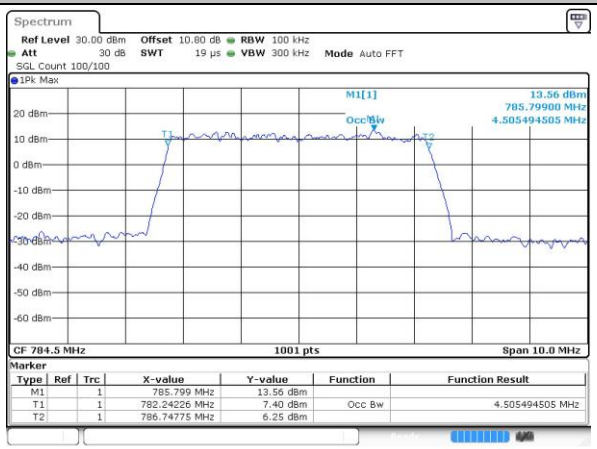
Date: 2.MAY.2017 14:18:00

Highest Channel / 5MHz / QPSK

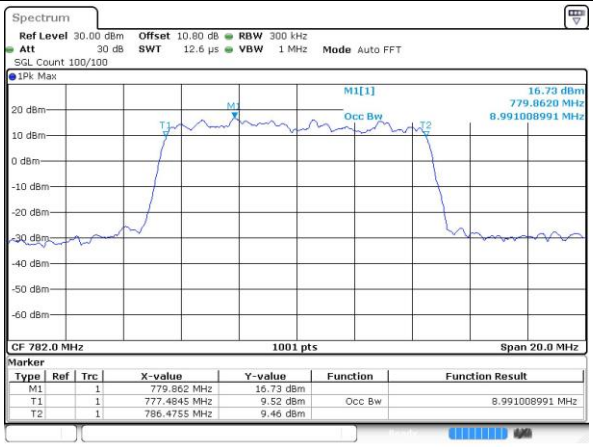
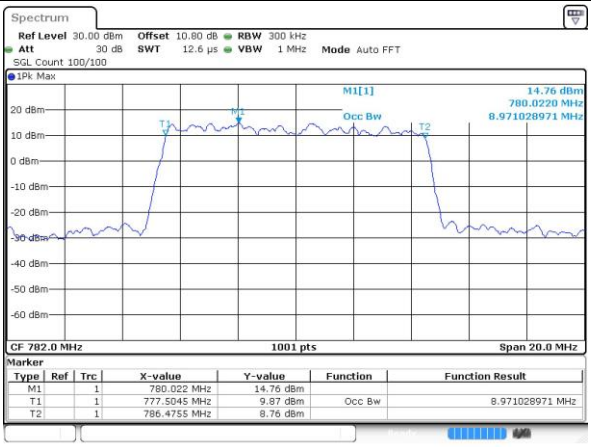


Date: 2.MAY.2017 14:18:20

Highest Channel / 5MHz / 16QAM



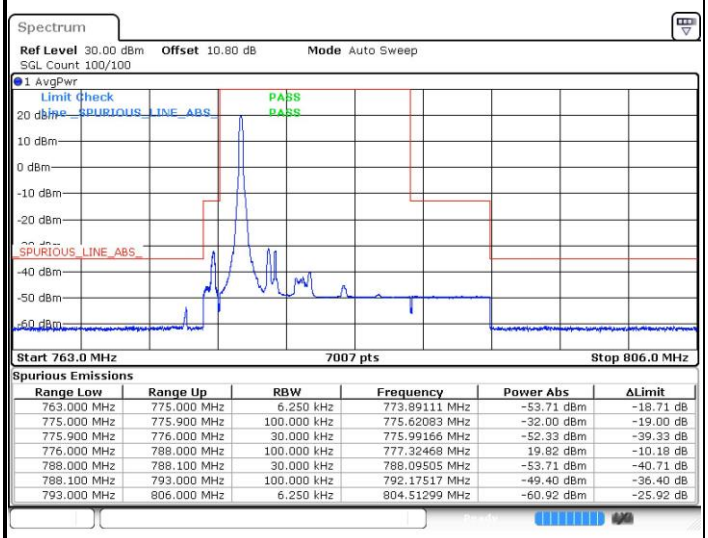
Date: 2.MAY.2017 14:18:31

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

Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

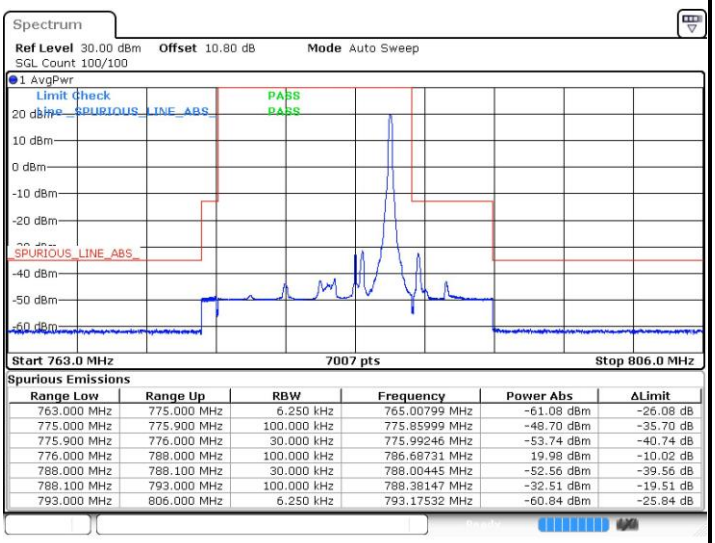


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.89111 MHz	-53.71 dBm	-18.71 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.62083 MHz	-32.00 dBm	-19.00 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99166 MHz	-52.33 dBm	-39.33 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.32468 MHz	19.82 dBm	-10.18 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09505 MHz	-53.71 dBm	-40.71 dB
788.100 MHz	793.000 MHz	100.000 kHz	792.17517 MHz	-49.40 dBm	-36.40 dB
793.000 MHz	806.000 MHz	6.250 kHz	804.51299 MHz	-60.92 dBm	-25.92 dB

Date: 2.MAY.2017 14:13:52

Highest Band Edge / 1 RB

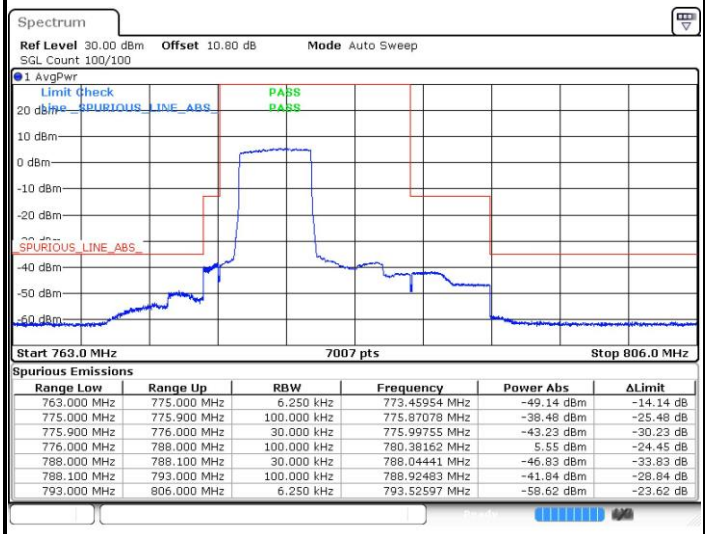


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	765.00799 MHz	-61.08 dBm	-26.08 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.85999 MHz	-48.70 dBm	-35.70 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99246 MHz	-53.74 dBm	-40.74 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.68731 MHz	19.98 dBm	-10.02 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00445 MHz	-52.56 dBm	-39.56 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.38147 MHz	-32.51 dBm	-19.51 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.17532 MHz	-60.84 dBm	-25.84 dB

Date: 2.MAY.2017 14:25:29

Lowest Band Edge / Full RB

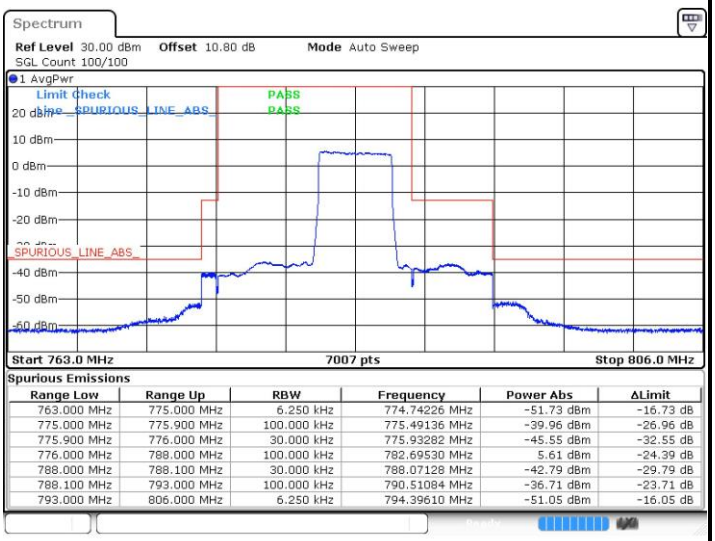


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.45954 MHz	-49.14 dBm	-14.14 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.87078 MHz	-38.48 dBm	-25.48 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99755 MHz	-43.23 dBm	-30.23 dB
776.000 MHz	788.000 MHz	100.000 kHz	780.38162 MHz	5.55 dBm	-24.45 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.04441 MHz	-46.83 dBm	-33.83 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.92483 MHz	-41.84 dBm	-28.84 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.52597 MHz	-58.62 dBm	-23.62 dB

Date: 2.MAY.2017 14:08:54

Highest Band Edge / Full RB



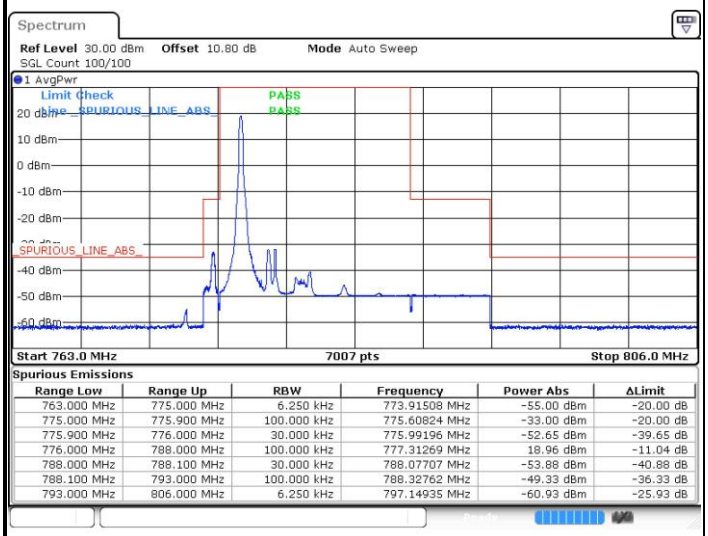
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.74226 MHz	-51.73 dBm	-16.73 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.49136 MHz	-39.96 dBm	-26.96 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.93282 MHz	-45.55 dBm	-32.55 dB
776.000 MHz	788.000 MHz	100.000 kHz	782.69530 MHz	5.61 dBm	-24.39 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07128 MHz	-42.79 dBm	-29.79 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.51084 MHz	-36.71 dBm	-23.71 dB
793.000 MHz	806.000 MHz	6.250 kHz	794.39610 MHz	-51.05 dBm	-16.05 dB

Date: 2.MAY.2017 14:20:30

LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge /1 RB

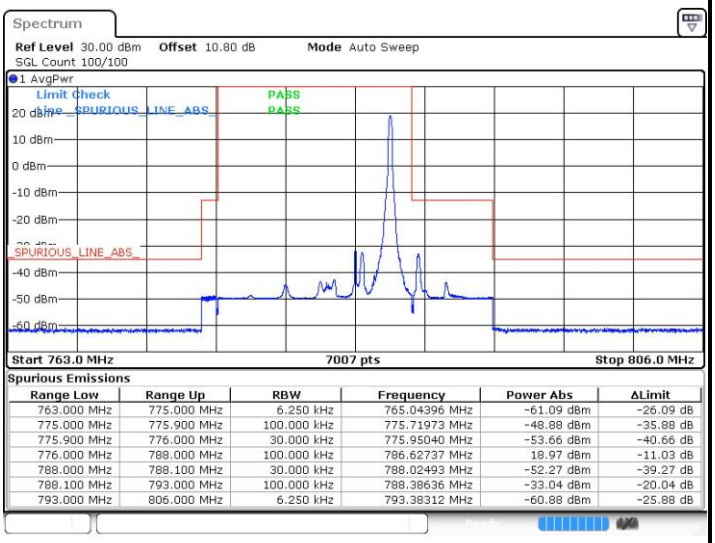


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.91508 MHz	-55.00 dBm	-20.00 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.60824 MHz	-33.00 dBm	-20.00 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99196 MHz	-52.65 dBm	-39.65 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.31269 MHz	18.96 dBm	-11.04 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07707 MHz	-53.88 dBm	-40.88 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.32762 MHz	-49.33 dBm	-36.33 dB
793.000 MHz	806.000 MHz	6.250 kHz	797.14935 MHz	-60.93 dBm	-25.93 dB

Date: 2.MAY.2017 14:12:13

Highest Band Edge / 1 RB

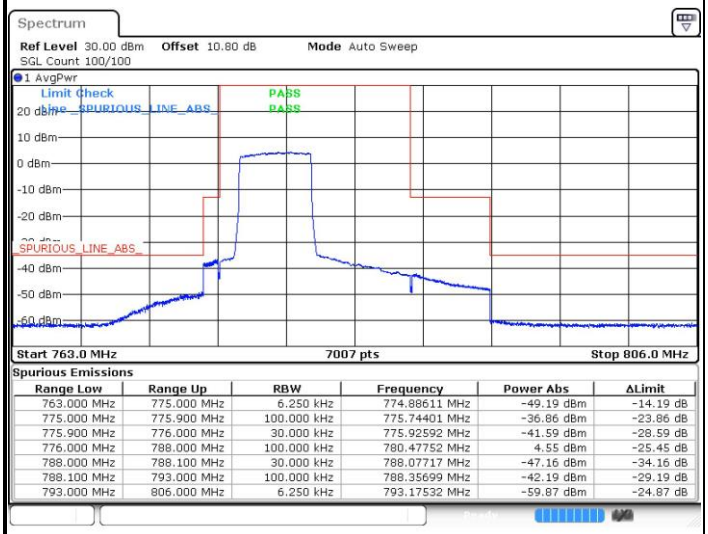


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	765.04396 MHz	-61.09 dBm	-26.09 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.71973 MHz	-48.88 dBm	-35.88 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.95040 MHz	-53.66 dBm	-40.66 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.62737 MHz	18.97 dBm	-11.03 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02493 MHz	-52.27 dBm	-39.27 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.38636 MHz	-33.04 dBm	-20.04 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.38312 MHz	-60.88 dBm	-25.88 dB

Date: 2.MAY.2017 14:23:49

Lowest Band Edge / Full RB

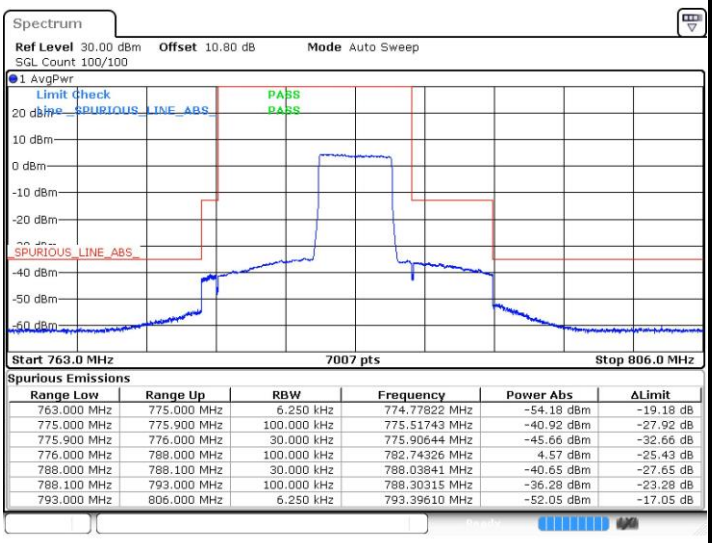


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.88611 MHz	-49.19 dBm	-14.19 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.74401 MHz	-36.86 dBm	-23.86 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.92592 MHz	-41.59 dBm	-28.59 dB
776.000 MHz	788.000 MHz	100.000 kHz	780.47752 MHz	4.55 dBm	-25.45 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07717 MHz	-47.16 dBm	-34.16 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.35699 MHz	-42.19 dBm	-29.19 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.17532 MHz	-59.87 dBm	-24.87 dB

Date: 2.MAY.2017 14:10:33

Highest Band Edge / Full RB



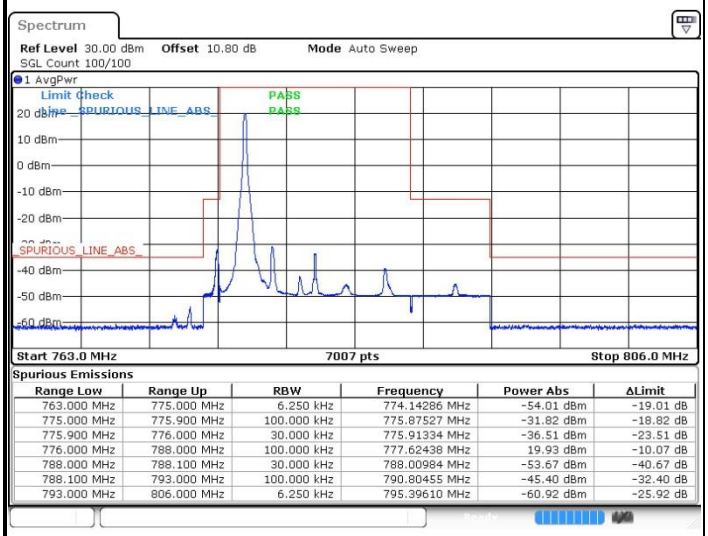
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.77822 MHz	-54.18 dBm	-19.18 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.51743 MHz	-40.92 dBm	-27.92 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.90644 MHz	-45.66 dBm	-32.66 dB
776.000 MHz	788.000 MHz	100.000 kHz	782.74326 MHz	4.57 dBm	-25.43 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.03841 MHz	-40.65 dBm	-27.65 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.30315 MHz	-36.28 dBm	-23.28 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.39610 MHz	-52.05 dBm	-17.05 dB

Date: 2.MAY.2017 14:22:10

LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

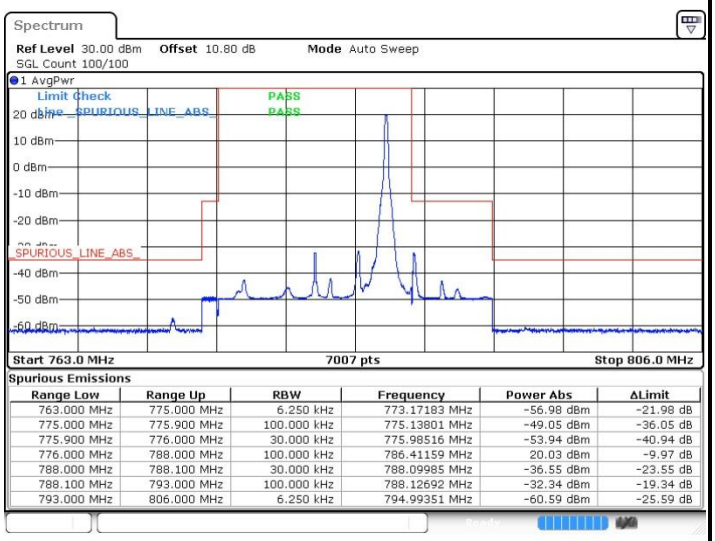


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.14286 MHz	-54.01 dBm	-19.01 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.87527 MHz	-31.82 dBm	-18.82 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.91334 MHz	-36.51 dBm	-23.51 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.62438 MHz	19.93 dBm	-10.07 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00984 MHz	-53.67 dBm	-40.67 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.80455 MHz	-45.40 dBm	-32.40 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.39610 MHz	-60.92 dBm	-25.92 dB

Date: 2.MAY.2017 14:34:35

Highest Band Edge / 1 RB

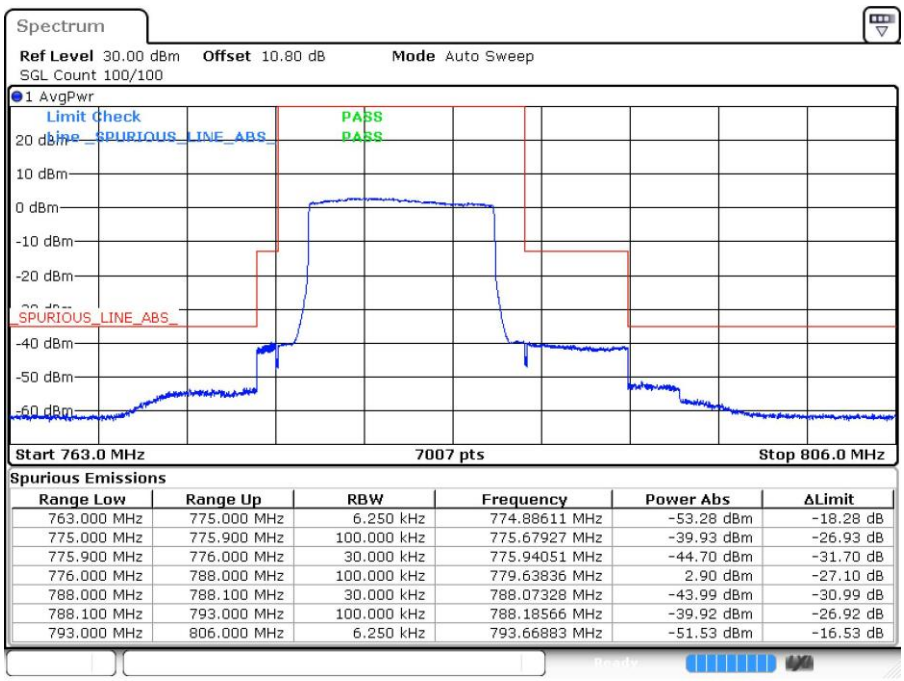


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.17183 MHz	-56.98 dBm	-21.98 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.13801 MHz	-49.05 dBm	-36.05 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98516 MHz	-53.94 dBm	-40.94 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.41159 MHz	20.03 dBm	-9.97 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09985 MHz	-36.55 dBm	-23.55 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.12692 MHz	-32.34 dBm	-19.34 dB
793.000 MHz	806.000 MHz	6.250 kHz	794.99351 MHz	-60.59 dBm	-25.59 dB

Date: 2.MAY.2017 14:36:15

Band Edge / Full RB



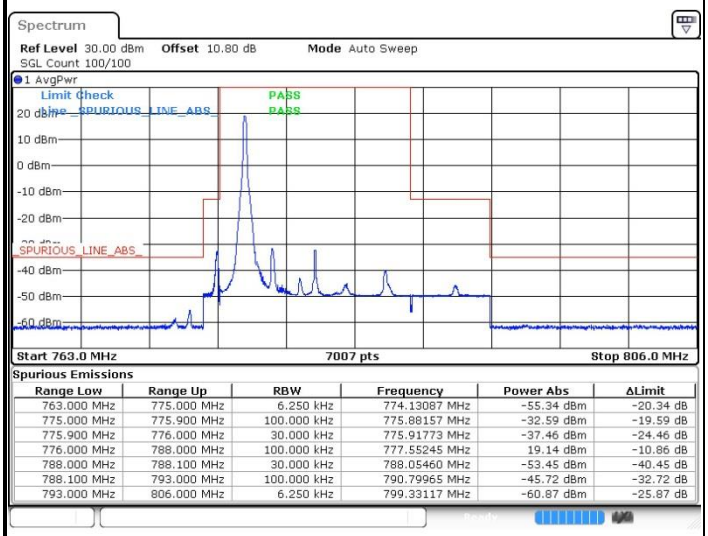
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.88611 MHz	-53.28 dBm	-18.28 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.67927 MHz	-39.93 dBm	-26.93 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.94051 MHz	-44.70 dBm	-31.70 dB
776.000 MHz	788.000 MHz	100.000 kHz	779.63836 MHz	2.90 dBm	-27.10 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07328 MHz	-43.99 dBm	-30.99 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.18566 MHz	-39.92 dBm	-26.92 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.66883 MHz	-51.53 dBm	-16.53 dB

Date: 2.MAY.2017 14:29:37

LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

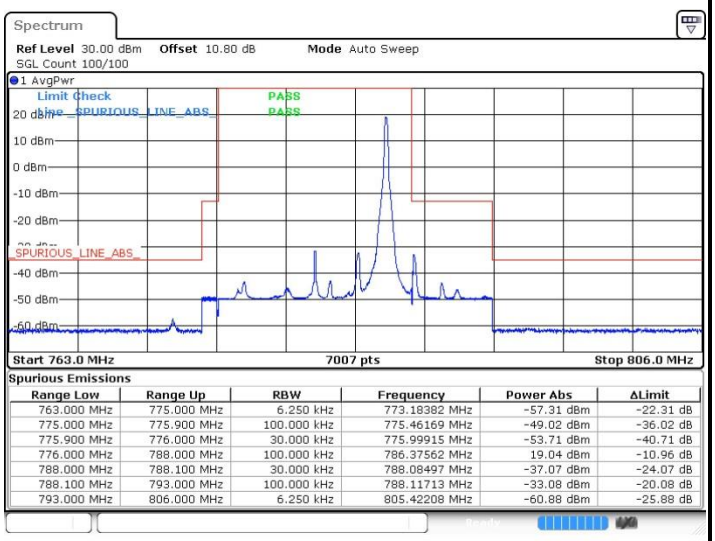


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.13087 MHz	-55.34 dBm	-20.34 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.88157 MHz	-32.59 dBm	-19.59 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.91773 MHz	-37.46 dBm	-24.46 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.55245 MHz	19.14 dBm	-10.86 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.05460 MHz	-53.45 dBm	-40.45 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.79965 MHz	-45.72 dBm	-32.72 dB
793.000 MHz	806.000 MHz	6.250 kHz	799.33117 MHz	-60.87 dBm	-25.87 dB

Date: 2.MAY.2017 14:32:56

Highest Band Edge / 1 RB

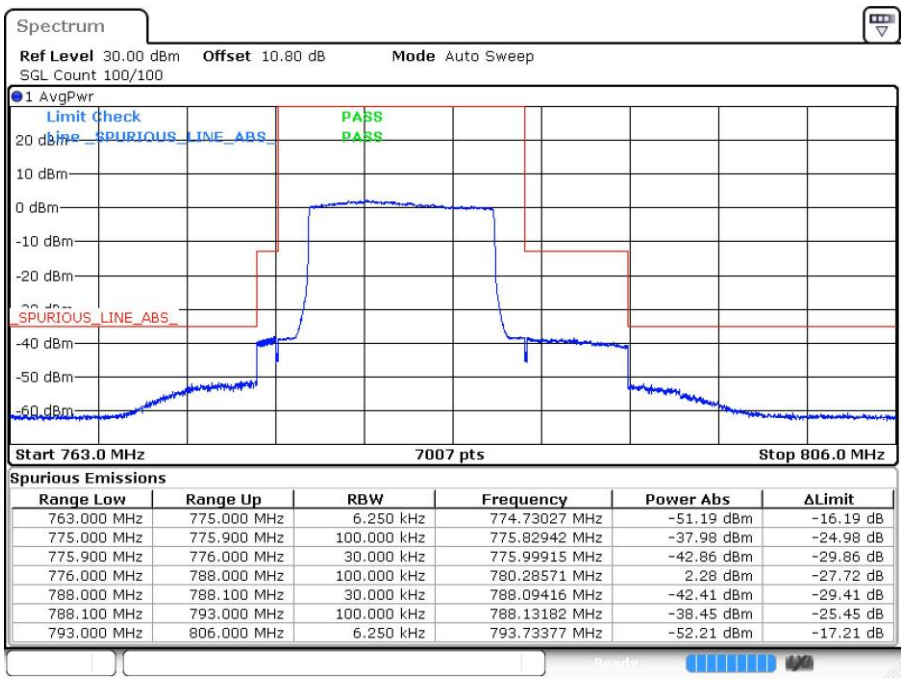


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.18382 MHz	-57.31 dBm	-22.31 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.46169 MHz	-49.02 dBm	-36.02 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99915 MHz	-53.71 dBm	-40.71 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.37562 MHz	19.04 dBm	-10.96 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.08497 MHz	-37.07 dBm	-24.07 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.11713 MHz	-33.08 dBm	-20.08 dB
793.000 MHz	806.000 MHz	6.250 kHz	805.42208 MHz	-60.88 dBm	-25.88 dB

Date: 2.MAY.2017 14:37:54

Band Edge / Full RB



Spurious Emissions

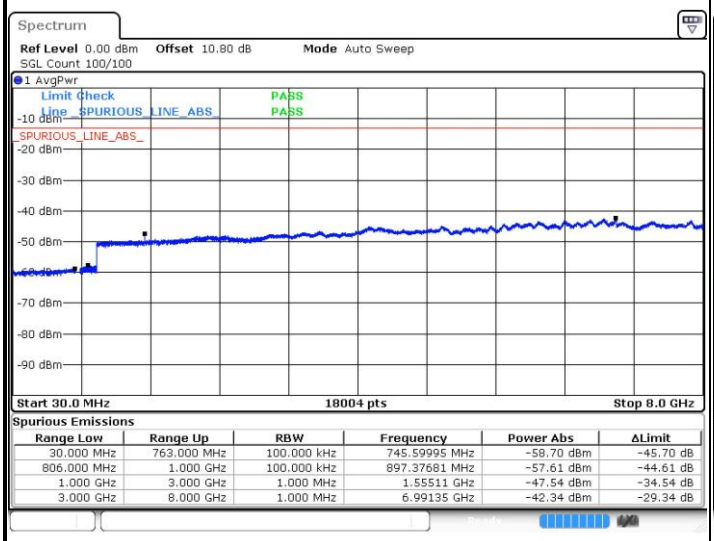
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.73027 MHz	-51.19 dBm	-16.19 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.82942 MHz	-37.98 dBm	-24.98 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99915 MHz	-42.86 dBm	-29.86 dB
776.000 MHz	788.000 MHz	100.000 kHz	780.28571 MHz	2.28 dBm	-27.72 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09416 MHz	-42.41 dBm	-29.41 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.13182 MHz	-38.45 dBm	-25.45 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.73377 MHz	-52.21 dBm	-17.21 dB

Date: 2.MAY.2017 14:31:17

Conducted Spurious Emission

LTE Band 13 / 5MHz

Lowest Channel / QPSK

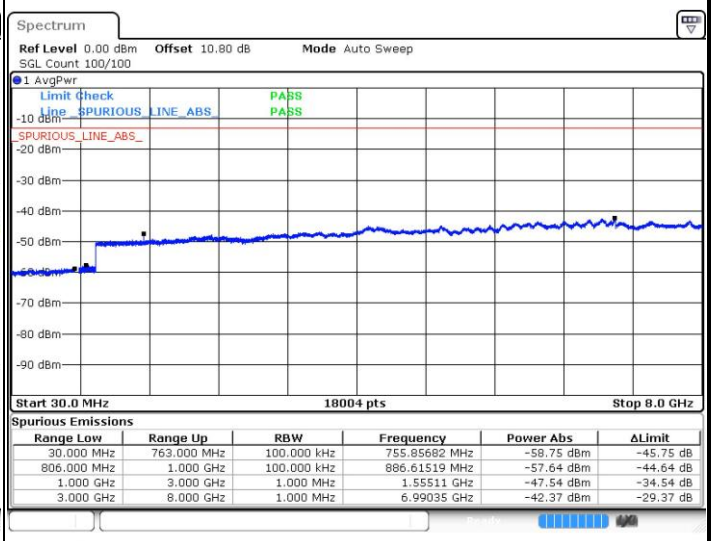


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	745.59995 MHz	-58.70 dBm	-45.70 dB
806.000 MHz	1.000 GHz	100.000 kHz	897.37681 MHz	-57.61 dBm	-44.61 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55511 GHz	-47.54 dBm	-34.54 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99135 GHz	-42.34 dBm	-29.34 dB

Date: 2.MAY.2017 14:14:47

Lowest Channel / 16QAM

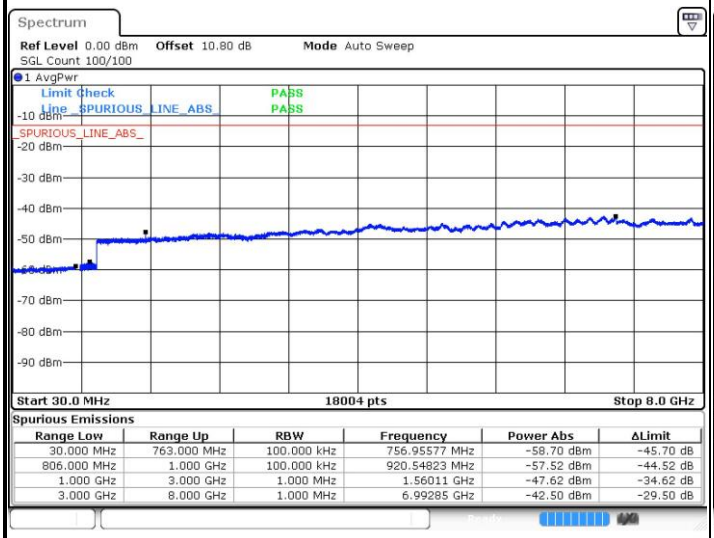


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	755.85682 MHz	-58.75 dBm	-45.75 dB
806.000 MHz	1.000 GHz	100.000 kHz	886.61519 MHz	-57.64 dBm	-44.64 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55511 GHz	-47.54 dBm	-34.54 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99035 GHz	-42.37 dBm	-29.37 dB

Date: 2.MAY.2017 14:15:41

Middle Channel / QPSK

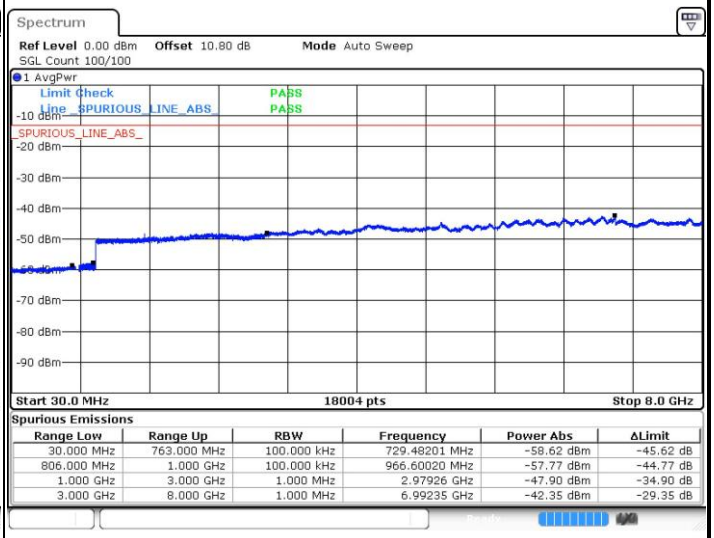


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	756.95577 MHz	-58.70 dBm	-45.70 dB
806.000 MHz	1.000 GHz	100.000 kHz	920.54823 MHz	-57.52 dBm	-44.52 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56011 GHz	-47.62 dBm	-34.62 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99285 GHz	-42.50 dBm	-29.50 dB

Date: 2.MAY.2017 14:17:29

Middle Channel / 16QAM



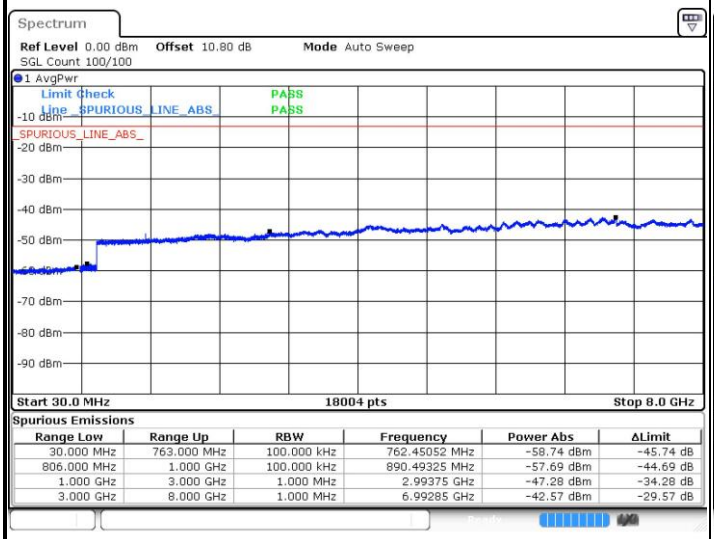
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	729.48201 MHz	-58.62 dBm	-45.62 dB
806.000 MHz	1.000 GHz	100.000 kHz	966.60020 MHz	-57.77 dBm	-44.77 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97926 GHz	-47.90 dBm	-34.90 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99235 GHz	-42.35 dBm	-29.35 dB

Date: 2.MAY.2017 14:16:35

LTE Band 13 / 5MHz

Highest Channel / QPSK

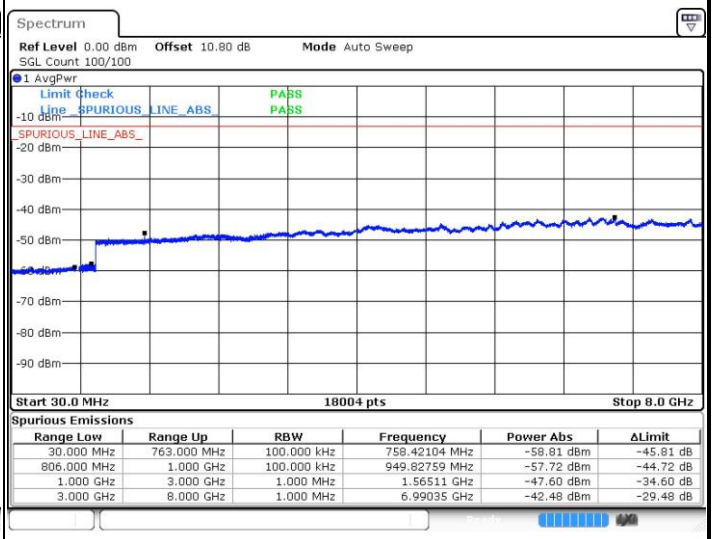


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	762.45052 MHz	-58.74 dBm	-45.74 dB
806.000 MHz	1.000 GHz	100.000 kHz	890.49325 MHz	-57.69 dBm	-44.69 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99375 GHz	-47.28 dBm	-34.28 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99285 GHz	-42.57 dBm	-29.57 dB

Date: 2.MAY.2017 14:26:23

Highest Channel / 16QAM



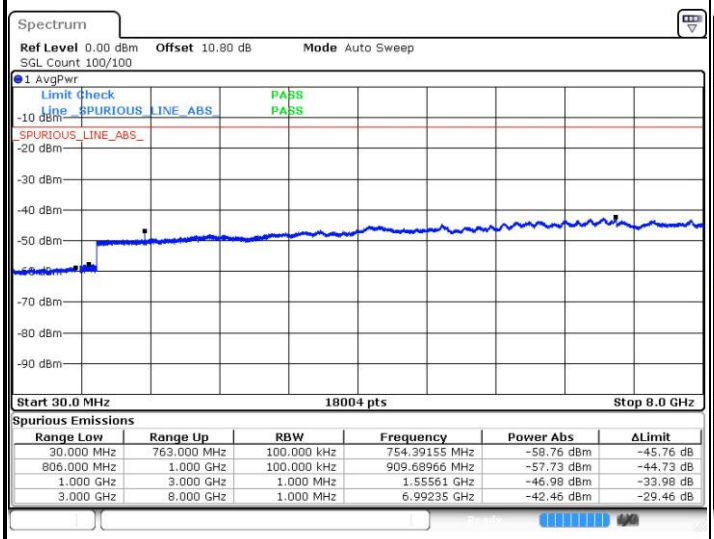
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	758.42104 MHz	-58.81 dBm	-45.81 dB
806.000 MHz	1.000 GHz	100.000 kHz	949.82759 MHz	-57.72 dBm	-44.72 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-47.60 dBm	-34.60 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99035 GHz	-42.48 dBm	-29.48 dB

Date: 2.MAY.2017 14:27:17

LTE Band 13 / 10MHz

Middle Channel / QPSK

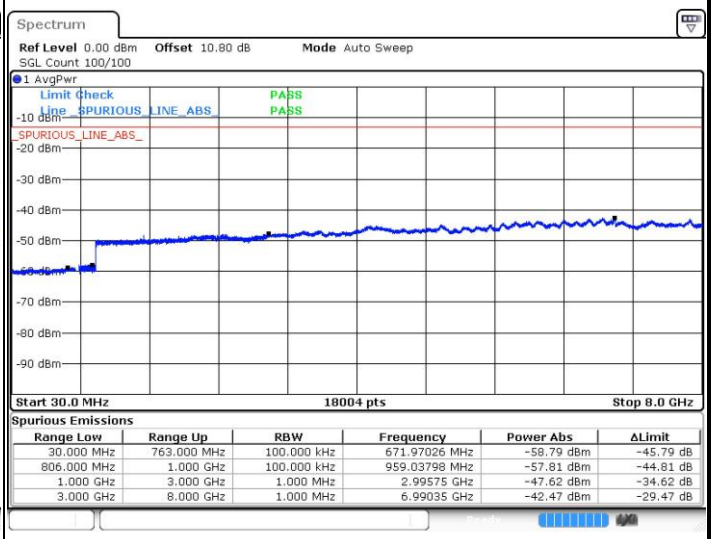


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	754.39155 MHz	-58.76 dBm	-45.76 dB
806.000 MHz	1.000 GHz	100.000 kHz	909.68966 MHz	-57.73 dBm	-44.73 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55561 GHz	-46.98 dBm	-33.98 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99235 GHz	-42.46 dBm	-29.46 dB

Date: 2.MAY.2017 14:39:43

Middle Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	671.97026 MHz	-58.79 dBm	-45.79 dB
806.000 MHz	1.000 GHz	100.000 kHz	959.03798 MHz	-57.81 dBm	-44.81 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99575 GHz	-47.62 dBm	-34.62 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99035 GHz	-42.47 dBm	-29.47 dB

Date: 2.MAY.2017 14:38:49