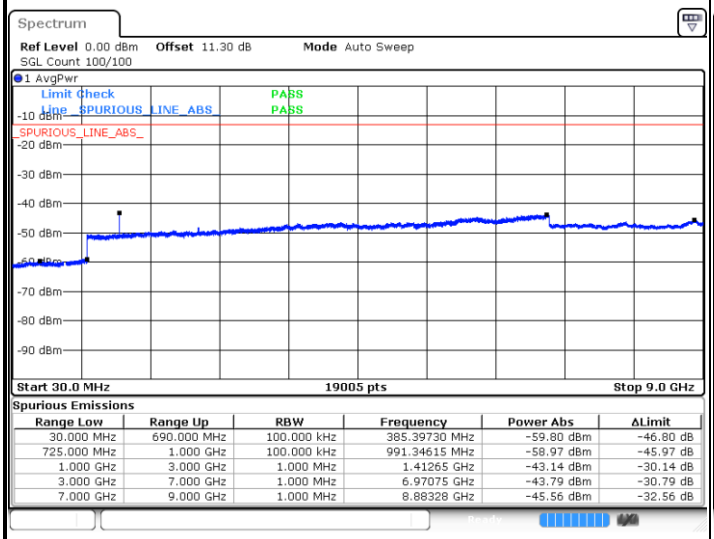
LTE Band 12 / 3MHz

Middle Channel / QPSK

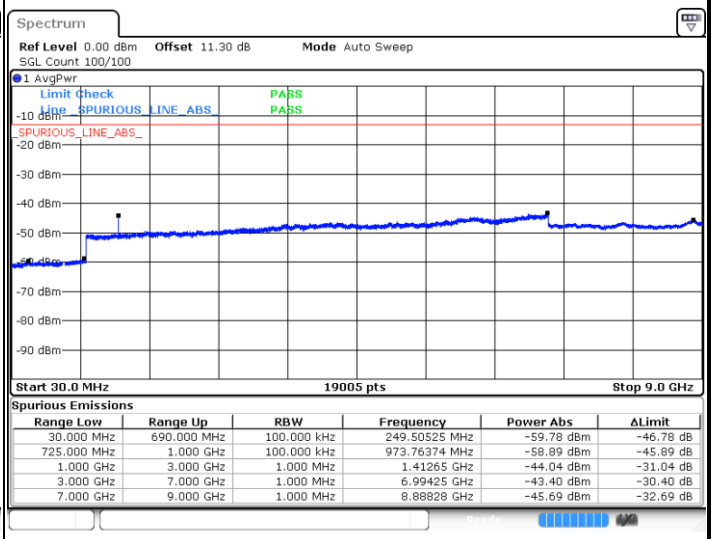


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	385.39730 MHz	-59.80 dBm	-46.80 dB
725.000 MHz	1.000 GHz	100.000 kHz	991.34615 MHz	-58.97 dBm	-45.97 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-43.14 dBm	-30.14 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97075 GHz	-43.79 dBm	-30.79 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.88328 GHz	-45.56 dBm	-32.56 dB

Date: 15.MAY.2020 14:35:52

Middle Channel / 16QAM

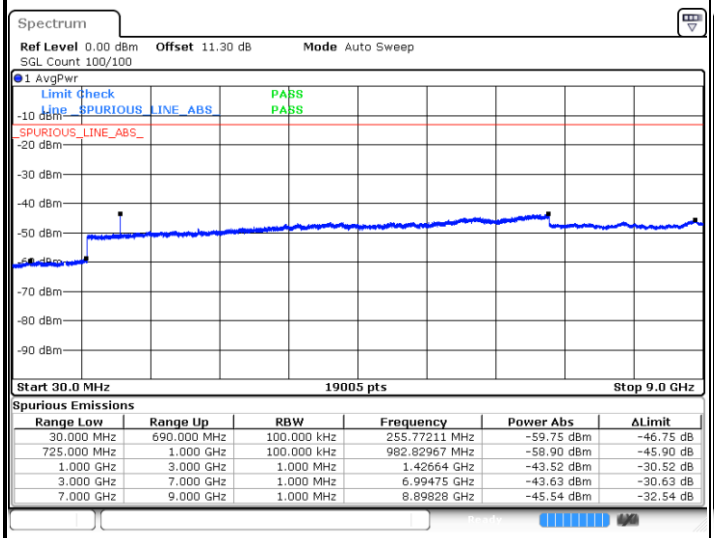


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	249.50525 MHz	-59.78 dBm	-46.78 dB
725.000 MHz	1.000 GHz	100.000 kHz	973.76374 MHz	-58.89 dBm	-45.89 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-44.04 dBm	-31.04 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99425 GHz	-43.40 dBm	-30.40 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.88828 GHz	-45.69 dBm	-32.69 dB

Date: 15.MAY.2020 14:35:06

Highest Channel / QPSK

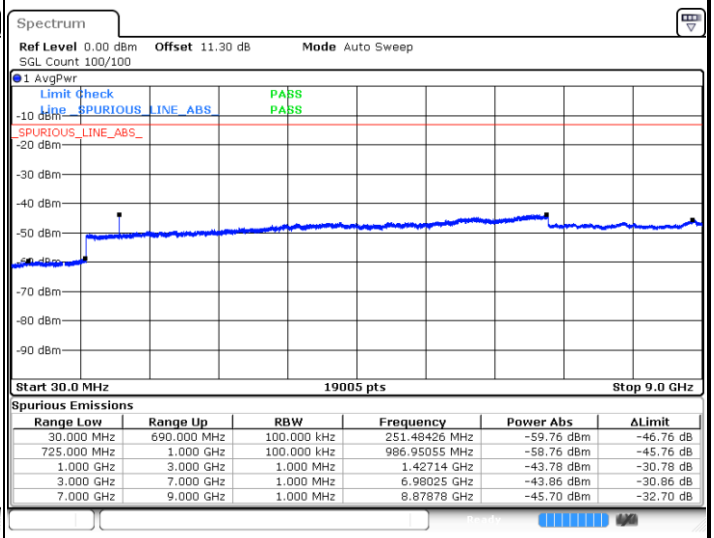


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	255.77211 MHz	-59.75 dBm	-46.75 dB
725.000 MHz	1.000 GHz	100.000 kHz	982.82967 MHz	-58.90 dBm	-45.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42664 GHz	-43.52 dBm	-30.52 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99475 GHz	-43.63 dBm	-30.63 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89828 GHz	-45.54 dBm	-32.54 dB

Date: 15.MAY.2020 14:41:30

Highest Channel / 16QAM



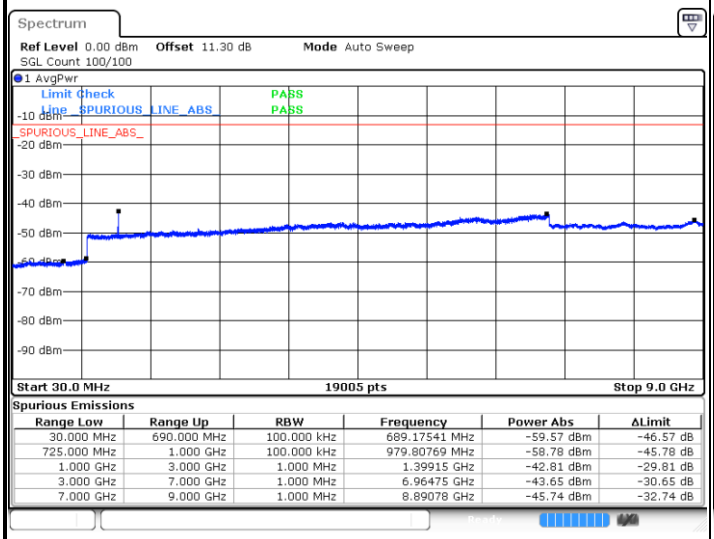
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	251.48426 MHz	-59.76 dBm	-46.76 dB
725.000 MHz	1.000 GHz	100.000 kHz	986.95055 MHz	-58.76 dBm	-45.76 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42714 GHz	-43.78 dBm	-30.78 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98025 GHz	-43.86 dBm	-30.86 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.87878 GHz	-45.70 dBm	-32.70 dB

Date: 15.MAY.2020 14:42:16

LTE Band 12 / 5MHz

Lowest Channel / QPSK

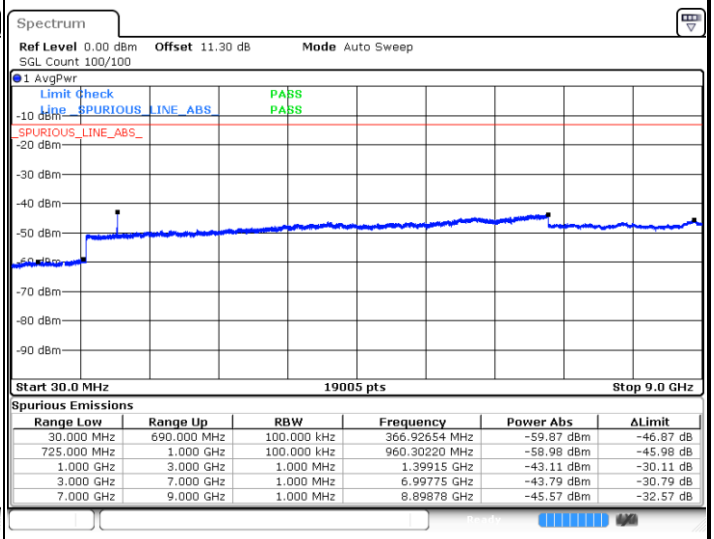


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.17541 MHz	-59.57 dBm	-46.57 dB
725.000 MHz	1.000 GHz	100.000 kHz	979.80769 MHz	-58.78 dBm	-45.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-42.81 dBm	-29.81 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96475 GHz	-43.65 dBm	-30.65 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89078 GHz	-45.74 dBm	-32.74 dB

Date: 15.MAY.2020 15:03:02

Lowest Channel / 16QAM

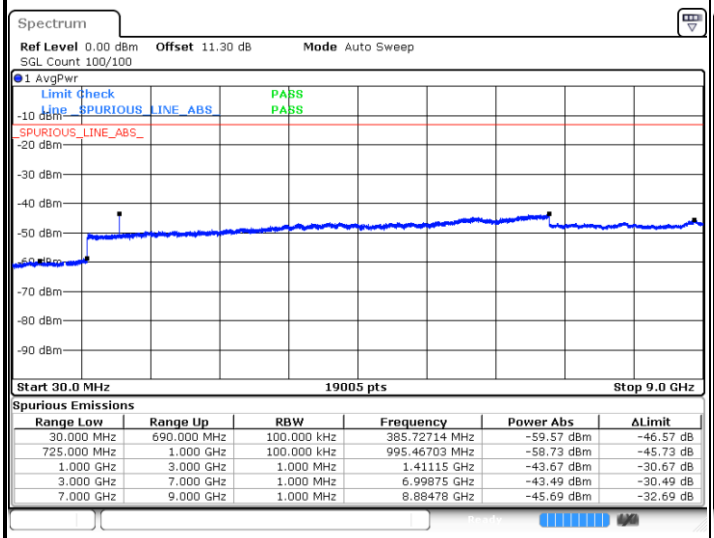


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	366.92654 MHz	-59.87 dBm	-46.87 dB
725.000 MHz	1.000 GHz	100.000 kHz	960.30220 MHz	-58.98 dBm	-45.98 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-43.11 dBm	-30.11 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99775 GHz	-43.79 dBm	-30.79 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89878 GHz	-45.57 dBm	-32.57 dB

Date: 15.MAY.2020 15:03:49

Middle Channel / QPSK

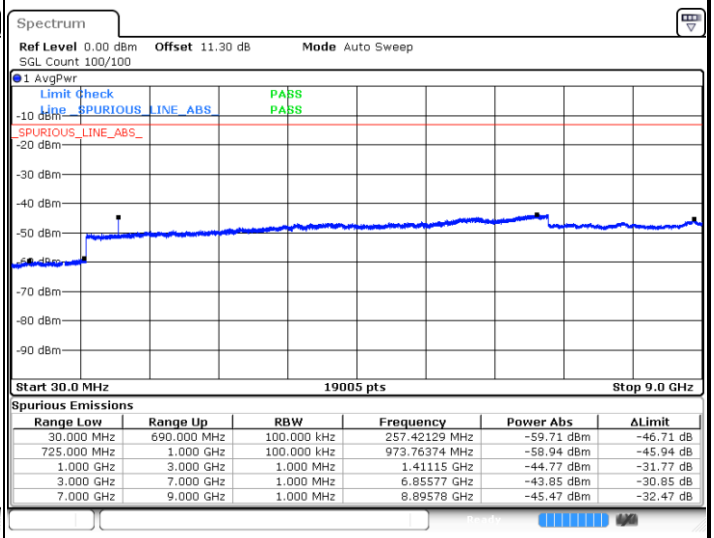


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	385.72714 MHz	-59.57 dBm	-46.57 dB
725.000 MHz	1.000 GHz	100.000 kHz	995.46703 MHz	-58.73 dBm	-45.73 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-43.67 dBm	-30.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99875 GHz	-43.49 dBm	-30.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.88478 GHz	-45.69 dBm	-32.69 dB

Date: 15.MAY.2020 15:27:19

Middle Channel / 16QAM



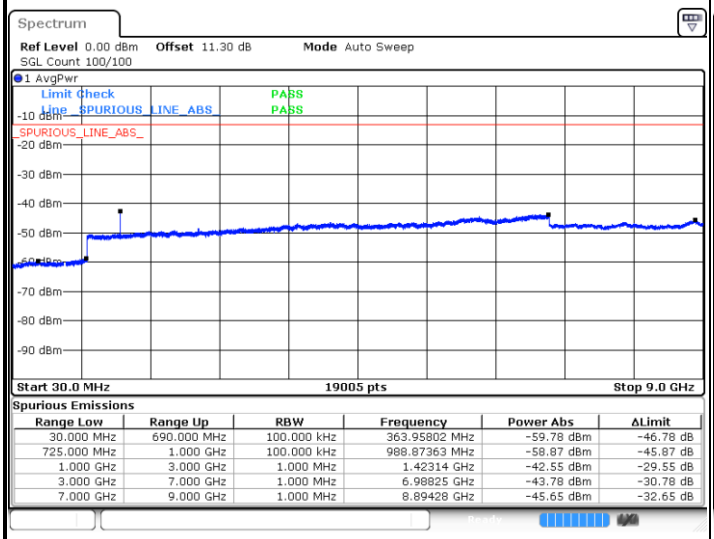
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	257.42129 MHz	-59.71 dBm	-46.71 dB
725.000 MHz	1.000 GHz	100.000 kHz	973.76374 MHz	-58.94 dBm	-45.94 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-44.77 dBm	-31.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85577 GHz	-43.85 dBm	-30.85 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89578 GHz	-45.47 dBm	-32.47 dB

Date: 15.MAY.2020 15:26:34

LTE Band 12 / 5MHz

Highest Channel / QPSK

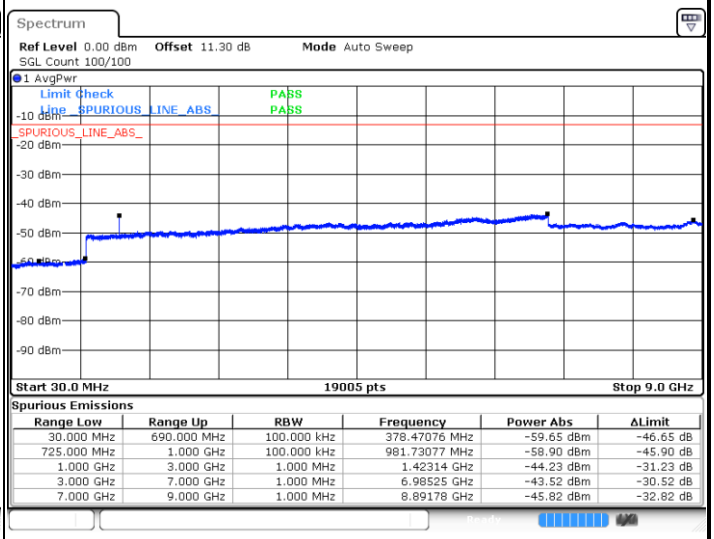


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	363.95802 MHz	-59.78 dBm	-46.78 dB
725.000 MHz	1.000 GHz	100.000 kHz	988.87363 MHz	-58.87 dBm	-45.87 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-42.55 dBm	-29.55 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98825 GHz	-43.78 dBm	-30.78 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89428 GHz	-45.65 dBm	-32.65 dB

Date: 15.MAY.2020 15:33:42

Highest Channel / 16QAM



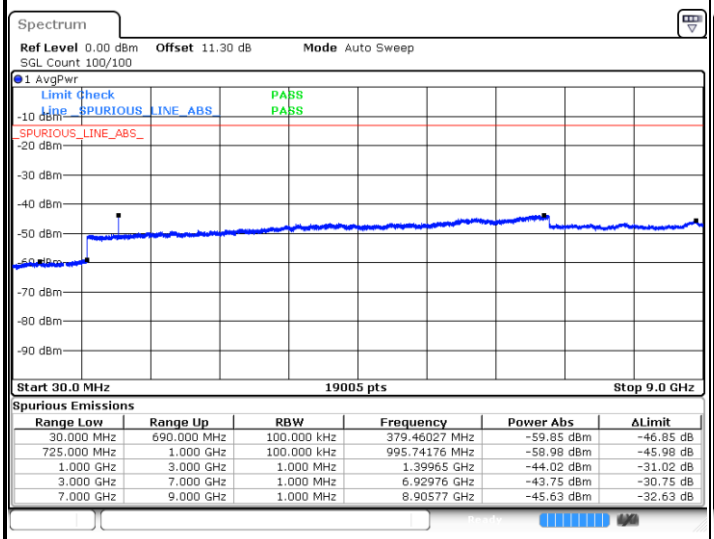
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	378.47076 MHz	-59.65 dBm	-46.65 dB
725.000 MHz	1.000 GHz	100.000 kHz	981.73077 MHz	-58.90 dBm	-45.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-44.23 dBm	-31.23 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98525 GHz	-43.52 dBm	-30.52 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89178 GHz	-45.82 dBm	-32.82 dB

Date: 15.MAY.2020 15:32:56

LTE Band 12 / 10MHz

Lowest Channel / QPSK

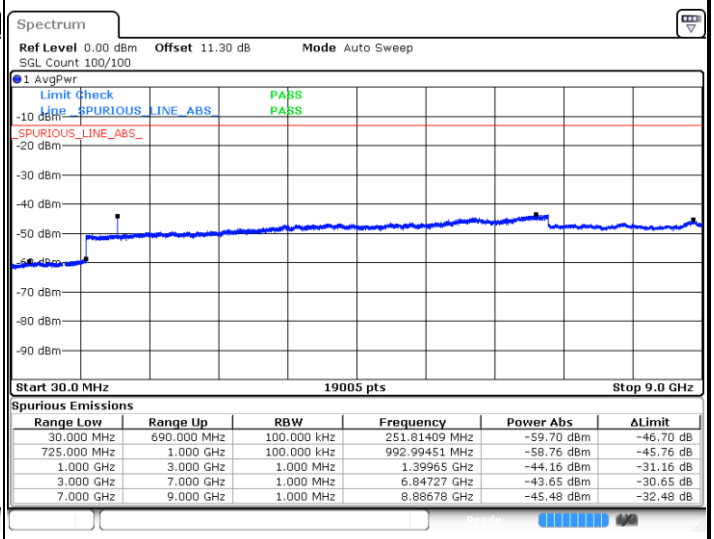


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	379.46027 MHz	-59.85 dBm	-46.85 dB
725.000 MHz	1.000 GHz	100.000 kHz	995.74176 MHz	-58.98 dBm	-45.98 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-44.02 dBm	-31.02 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92976 GHz	-43.75 dBm	-30.75 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90577 GHz	-45.63 dBm	-32.63 dB

Date: 15.MAY.2020 15:39:21

Lowest Channel / 16QAM



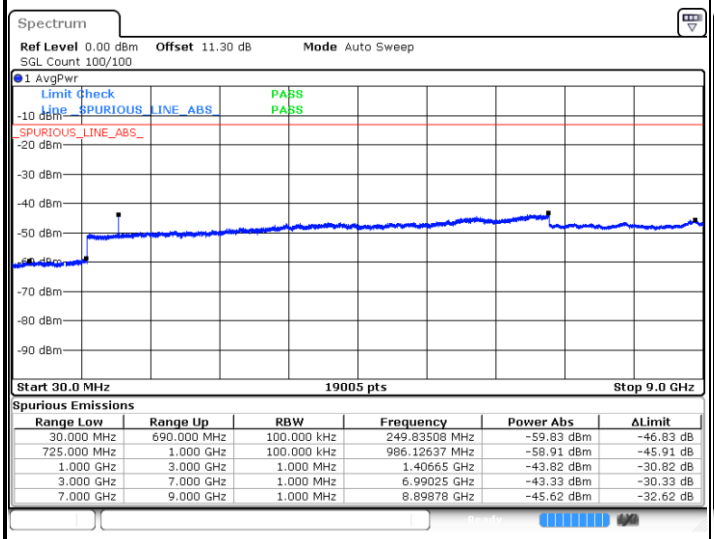
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	251.81409 MHz	-59.70 dBm	-46.70 dB
725.000 MHz	1.000 GHz	100.000 kHz	992.99451 MHz	-58.76 dBm	-45.76 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-44.16 dBm	-31.16 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84727 GHz	-43.65 dBm	-30.65 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.88678 GHz	-45.48 dBm	-32.48 dB

Date: 15.MAY.2020 15:40:07

LTE Band 12 / 10MHz

Middle Channel / QPSK

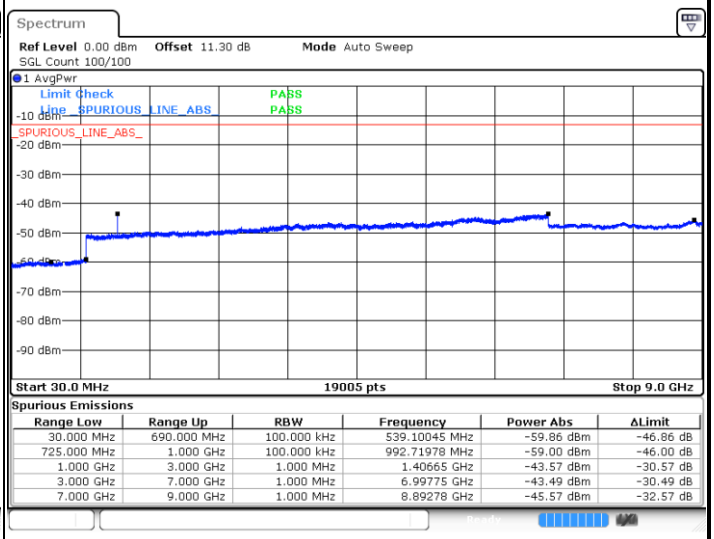


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	249.83508 MHz	-59.83 dBm	-46.83 dB
725.000 MHz	1.000 GHz	100.000 kHz	986.12637 MHz	-58.91 dBm	-45.91 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-43.82 dBm	-30.82 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99025 GHz	-43.33 dBm	-30.33 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89878 GHz	-45.62 dBm	-32.62 dB

Date: 15.MAY.2020 15:42:26

Middle Channel / 16QAM

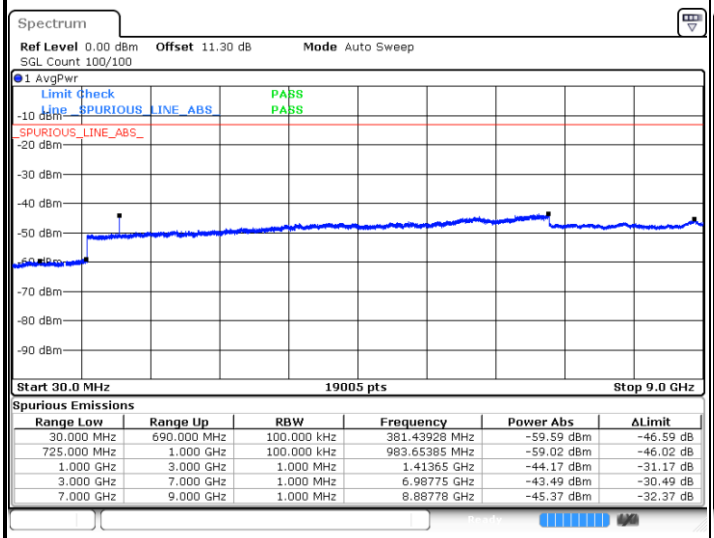


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	539.10045 MHz	-59.86 dBm	-46.86 dB
725.000 MHz	1.000 GHz	100.000 kHz	992.71978 MHz	-59.00 dBm	-46.00 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-43.57 dBm	-30.57 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99775 GHz	-43.49 dBm	-30.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89278 GHz	-45.57 dBm	-32.57 dB

Date: 15.MAY.2020 15:41:39

Highest Channel / QPSK

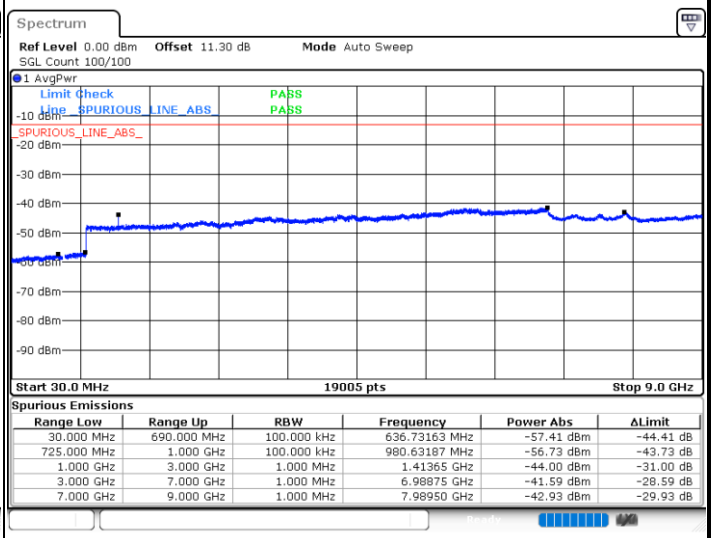


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	381.43928 MHz	-59.59 dBm	-46.59 dB
725.000 MHz	1.000 GHz	100.000 kHz	983.65385 MHz	-59.02 dBm	-46.02 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-44.17 dBm	-31.17 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98775 GHz	-43.49 dBm	-30.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.88778 GHz	-45.37 dBm	-32.37 dB

Date: 15.MAY.2020 15:48:06

Highest Channel / 16QAM



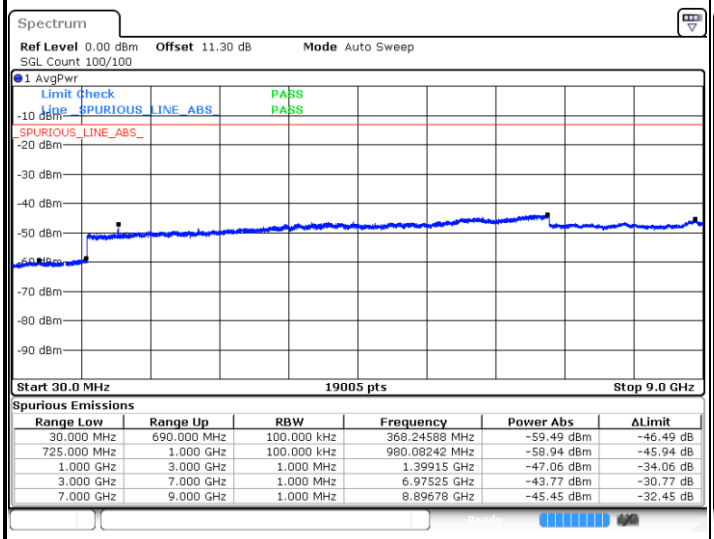
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	636.73163 MHz	-57.41 dBm	-44.41 dB
725.000 MHz	1.000 GHz	100.000 kHz	980.63187 MHz	-56.73 dBm	-43.73 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-44.00 dBm	-31.00 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98875 GHz	-41.59 dBm	-28.59 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.98950 GHz	-42.93 dBm	-29.93 dB

Date: 30.JUN.2020 22:34:57

LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM

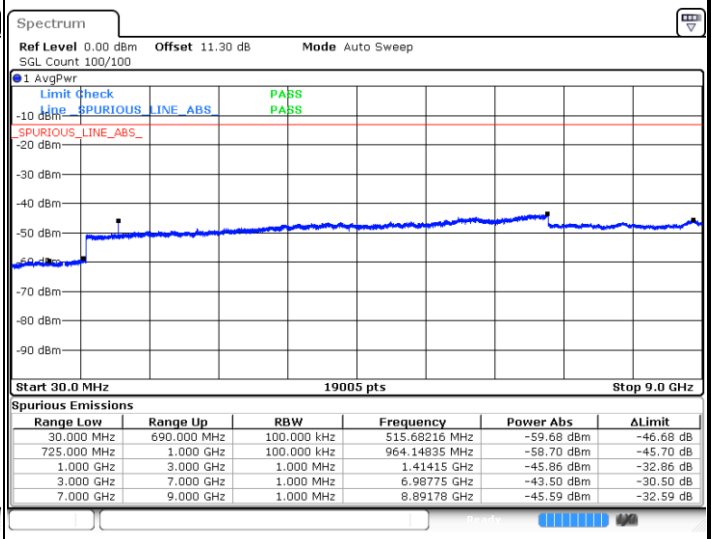


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	368.24588 MHz	-59.49 dBm	-46.49 dB
725.000 MHz	1.000 GHz	100.000 kHz	980.08242 MHz	-58.94 dBm	-45.94 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-47.06 dBm	-34.06 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97525 GHz	-43.77 dBm	-30.77 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89678 GHz	-45.45 dBm	-32.45 dB

Date: 15.MAY.2020 14:22:42

Middle Channel / 64QAM

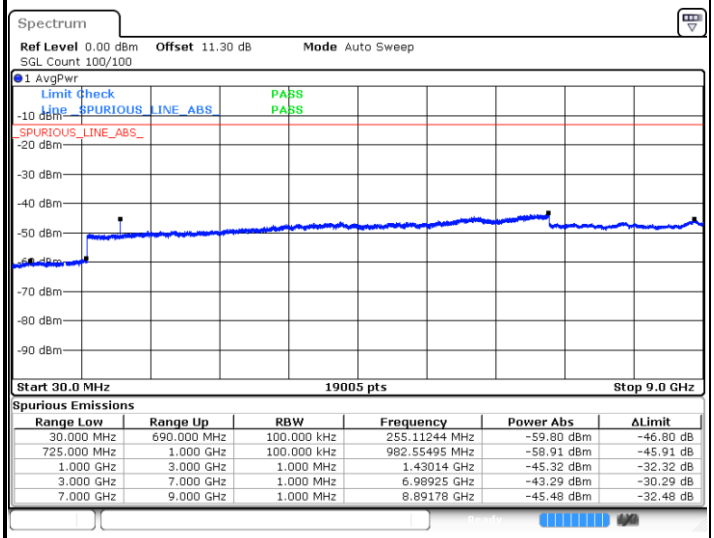


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	515.68216 MHz	-59.68 dBm	-46.68 dB
725.000 MHz	1.000 GHz	100.000 kHz	964.14835 MHz	-58.70 dBm	-45.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41415 GHz	-45.86 dBm	-32.86 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98775 GHz	-43.50 dBm	-30.50 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89178 GHz	-45.59 dBm	-32.59 dB

Date: 15.MAY.2020 14:23:56

Highest Channel / 64QAM



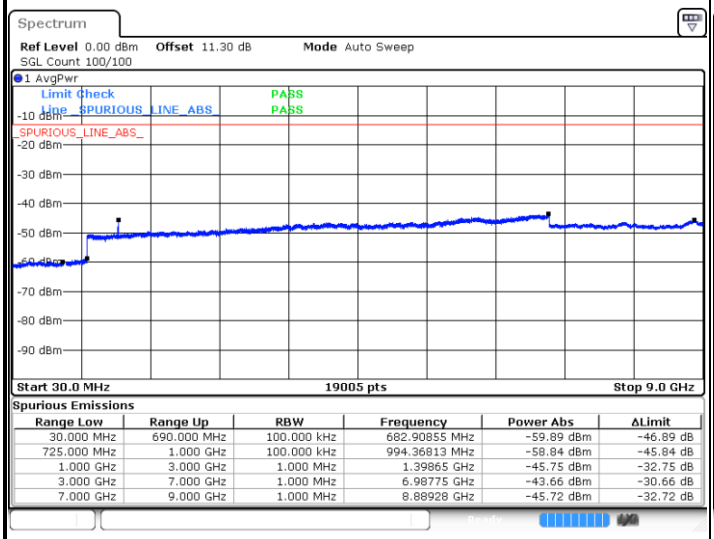
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	255.11244 MHz	-59.80 dBm	-46.80 dB
725.000 MHz	1.000 GHz	100.000 kHz	982.55495 MHz	-58.91 dBm	-45.91 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-45.32 dBm	-32.32 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98925 GHz	-43.29 dBm	-30.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89178 GHz	-45.48 dBm	-32.48 dB

Date: 15.MAY.2020 14:27:08

LTE Band 12 / 3MHz

Lowest Channel / 64QAM

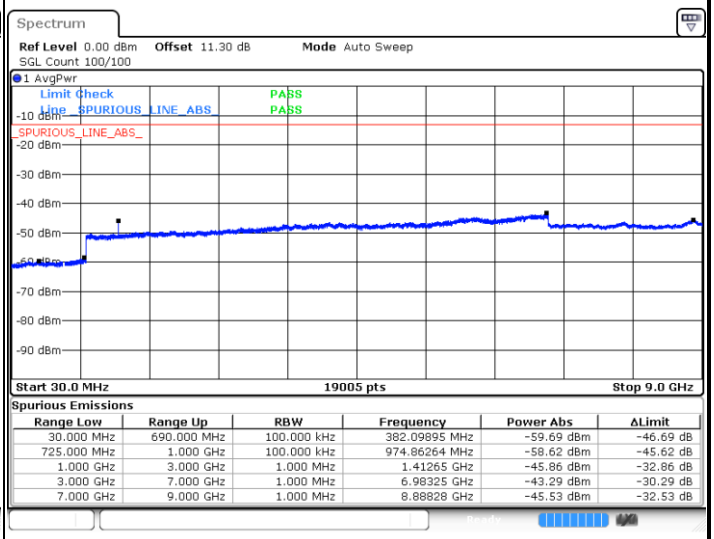


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	682.90855 MHz	-59.89 dBm	-46.89 dB
725.000 MHz	1.000 GHz	100.000 kHz	994.36813 MHz	-58.84 dBm	-45.84 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-45.75 dBm	-32.75 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98775 GHz	-43.66 dBm	-30.66 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.88928 GHz	-45.72 dBm	-32.72 dB

Date: 15.MAY.2020 14:45:27

Middle Channel / 64QAM

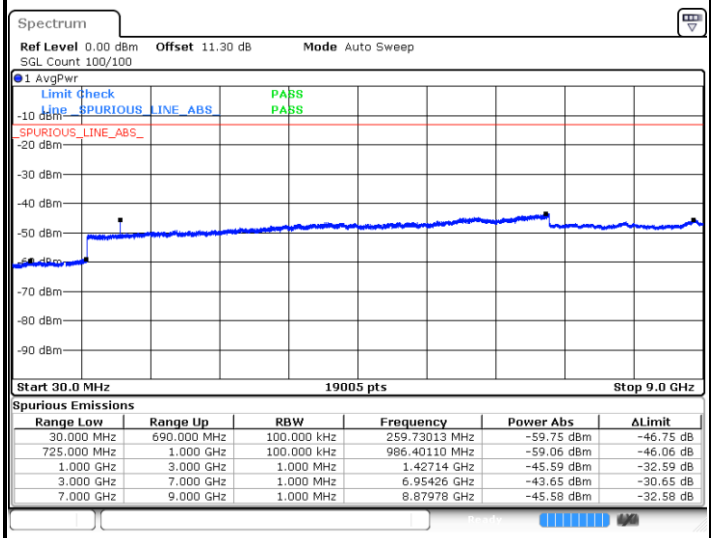


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	382.09895 MHz	-59.69 dBm	-46.69 dB
725.000 MHz	1.000 GHz	100.000 kHz	974.86264 MHz	-58.62 dBm	-45.62 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-45.86 dBm	-32.86 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98325 GHz	-43.29 dBm	-30.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.88828 GHz	-45.53 dBm	-32.53 dB

Date: 15.MAY.2020 14:46:37

Highest Channel / 64QAM



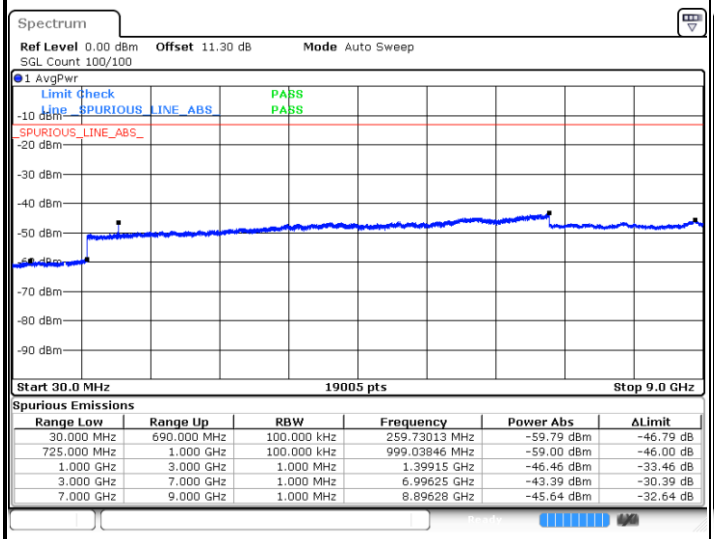
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	259.73013 MHz	-59.75 dBm	-46.75 dB
725.000 MHz	1.000 GHz	100.000 kHz	986.40110 MHz	-59.06 dBm	-46.06 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42714 GHz	-45.59 dBm	-32.59 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95426 GHz	-43.65 dBm	-30.65 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.87978 GHz	-45.58 dBm	-32.58 dB

Date: 15.MAY.2020 14:49:48

LTE Band 12 / 5MHz

Lowest Channel / 64QAM

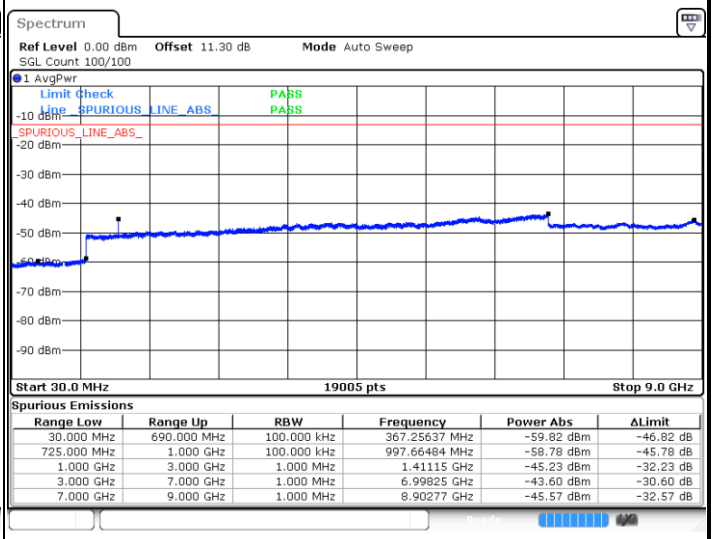


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	259.73013 MHz	-59.79 dBm	-46.79 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.03846 MHz	-59.00 dBm	-46.00 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-46.46 dBm	-33.46 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99625 GHz	-43.39 dBm	-30.39 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89628 GHz	-45.64 dBm	-32.64 dB

Date: 15.MAY.2020 14:53:00

Middle Channel / 64QAM

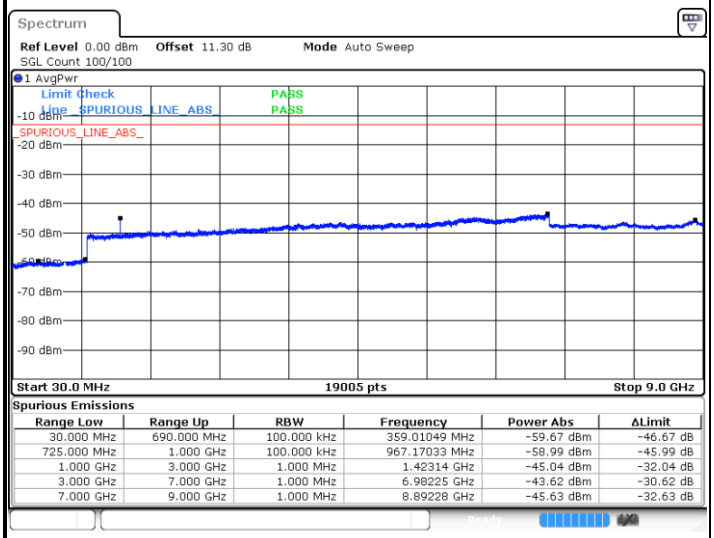


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	367.25637 MHz	-59.82 dBm	-46.82 dB
725.000 MHz	1.000 GHz	100.000 kHz	997.66484 MHz	-58.78 dBm	-45.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-45.23 dBm	-32.23 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99825 GHz	-43.60 dBm	-30.60 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90277 GHz	-45.57 dBm	-32.57 dB

Date: 15.MAY.2020 14:54:12

Highest Channel / 64QAM



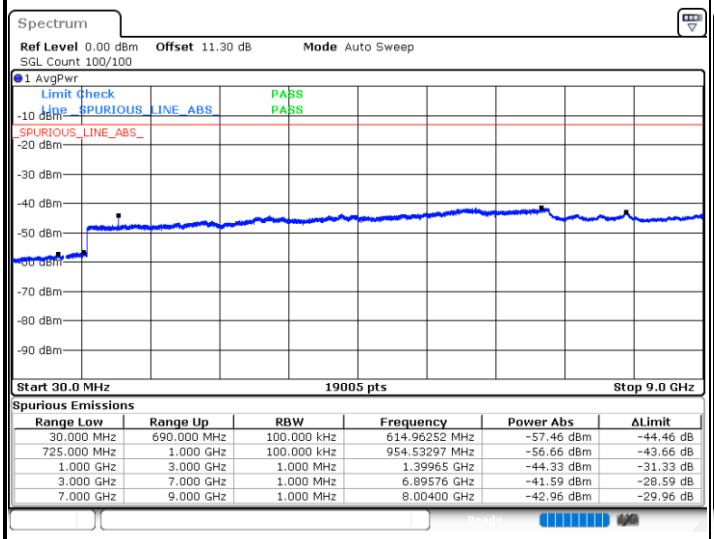
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	359.01049 MHz	-59.67 dBm	-46.67 dB
725.000 MHz	1.000 GHz	100.000 kHz	967.17033 MHz	-58.99 dBm	-45.99 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-45.04 dBm	-32.04 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98225 GHz	-43.62 dBm	-30.62 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89228 GHz	-45.63 dBm	-32.63 dB

Date: 15.MAY.2020 14:57:25

LTE Band 12 / 10MHz

Lowest Channel / 64QAM

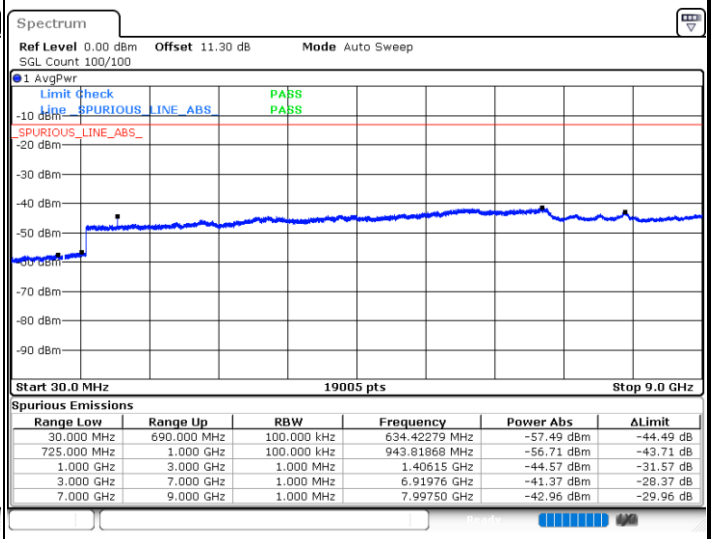


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	614.96252 MHz	-57.46 dBm	-44.46 dB
725.000 MHz	1.000 GHz	100.000 kHz	954.53297 MHz	-56.66 dBm	-43.66 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-44.33 dBm	-31.33 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.89576 GHz	-41.59 dBm	-28.59 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.00400 GHz	-42.96 dBm	-29.96 dB

Date: 30.JUN.2020 22:20:39

Middle Channel / 64QAM

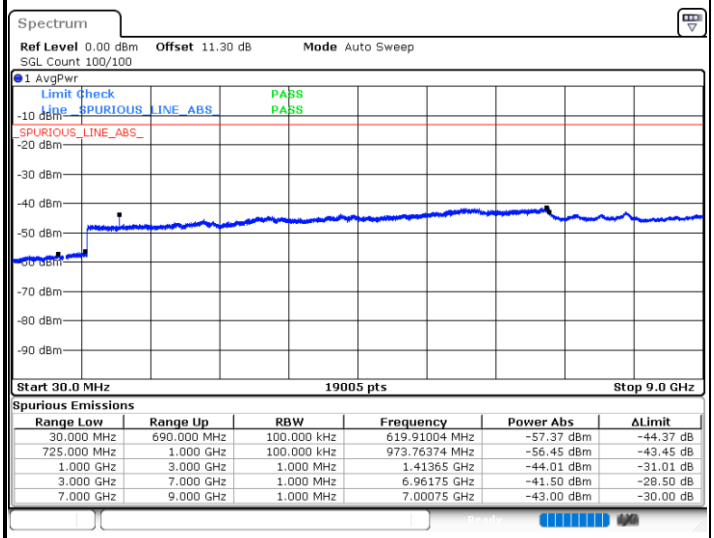


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	634.42279 MHz	-57.49 dBm	-44.49 dB
725.000 MHz	1.000 GHz	100.000 kHz	943.81868 MHz	-56.71 dBm	-43.71 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40615 GHz	-44.57 dBm	-31.57 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91976 GHz	-41.37 dBm	-28.37 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.99750 GHz	-42.96 dBm	-29.96 dB

Date: 30.JUN.2020 22:21:41

Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	619.91004 MHz	-57.37 dBm	-44.37 dB
725.000 MHz	1.000 GHz	100.000 kHz	973.76374 MHz	-56.45 dBm	-43.45 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-44.01 dBm	-31.01 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96175 GHz	-41.50 dBm	-28.50 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00075 GHz	-43.00 dBm	-30.00 dB

Date: 30.JUN.2020 22:24:03

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0178	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0075	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0165	
0	Normal Voltage	0.0144	
-10	Normal Voltage	0.0045	
-20	Normal Voltage	0.0047	
-30	Normal Voltage	0.0165	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage =3.87 V.；Battery End Point (BEP) =3.49 V.；Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

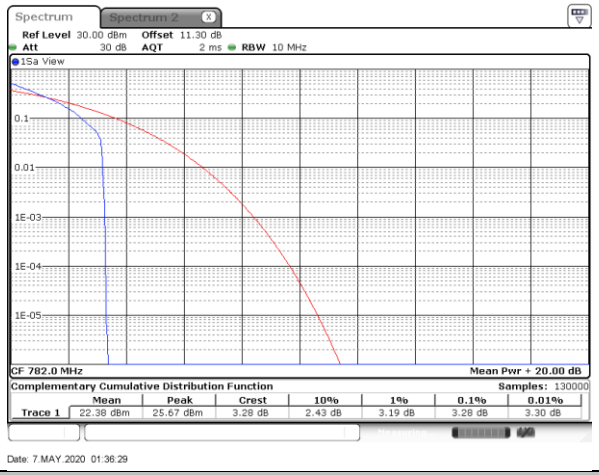
LTE Band 13

Peak-to-Average Ratio

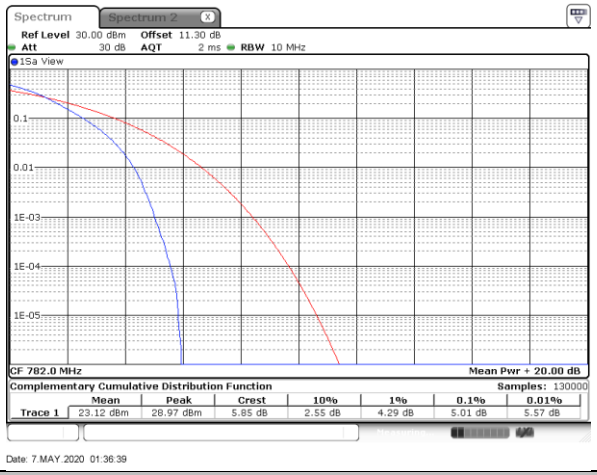
Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.28	5.01	4.32	5.94	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.13	6.52	-	-	
Highest CH	-	-	-	-	

LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB

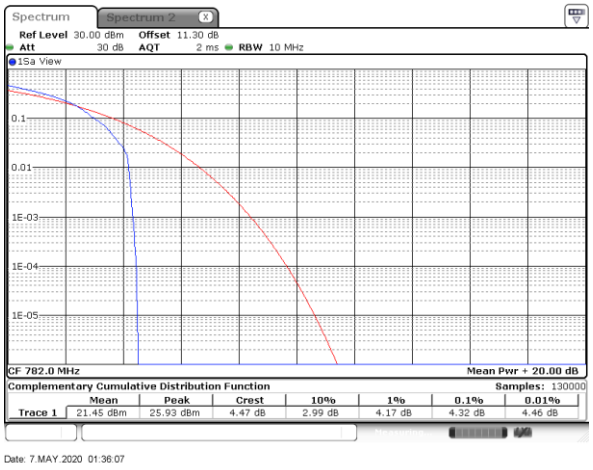


Middle Channel / Full RB

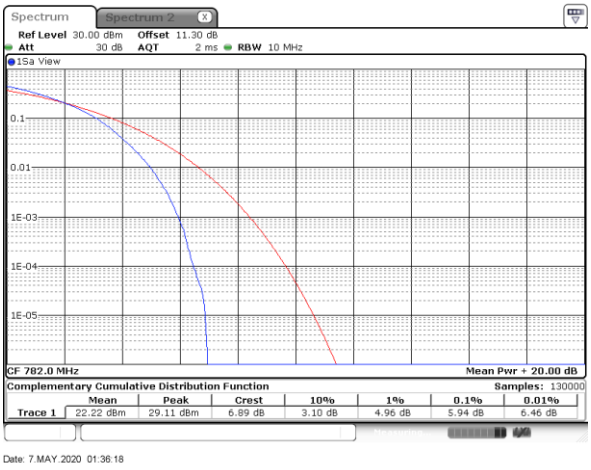


LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB

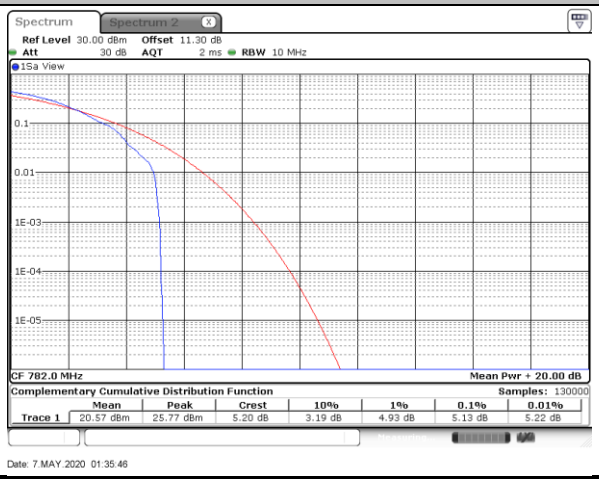


Middle Channel / Full RB

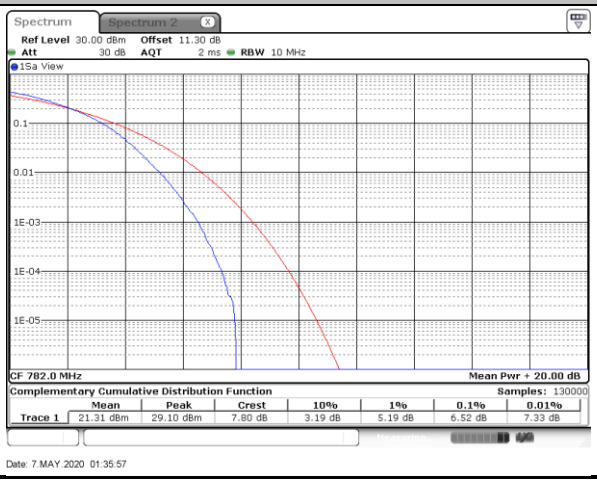


LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Middle Channel / Full RB

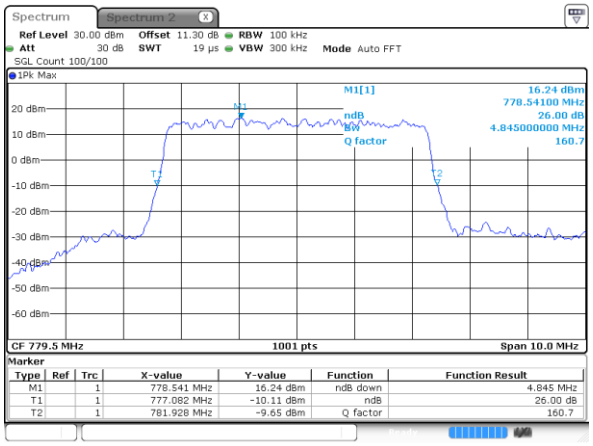


26dB Bandwidth

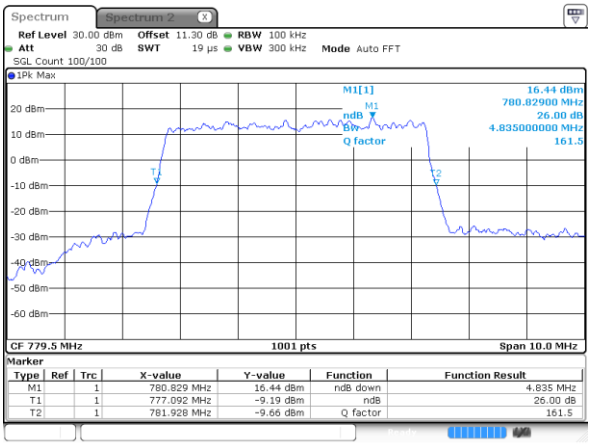
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.85	4.84	-	-	-	-	-	-
Middle CH	-	-	-	-	4.85	4.91	9.85	9.71	-	-	-	-
Highest CH	-	-	-	-	4.97	4.84	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.84	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.86	-	9.91	-	-	-	-	-
Highest CH	-	-	-	-	4.93	-	-	-	-	-	-	-

LTE Band 13

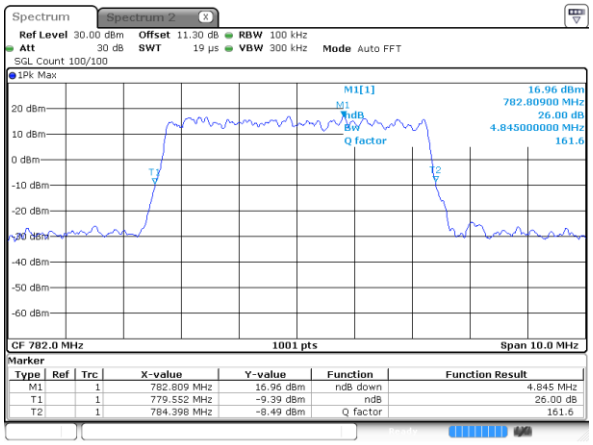
Lowest Channel / 5MHz / QPSK



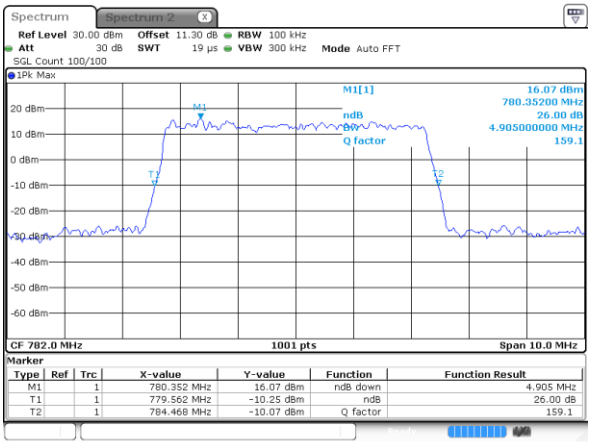
Lowest Channel / 5MHz / 16QAM



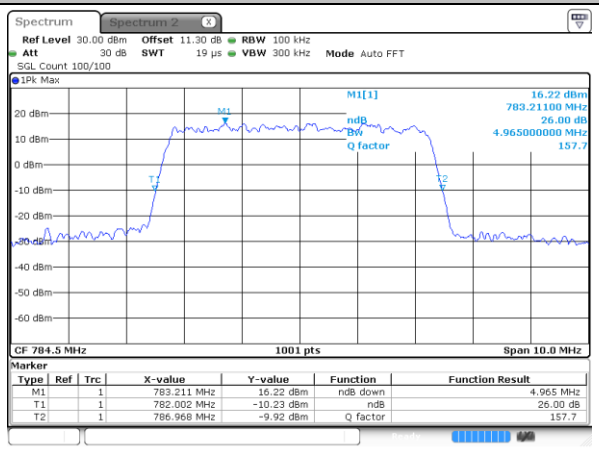
Middle Channel / 5MHz / QPSK



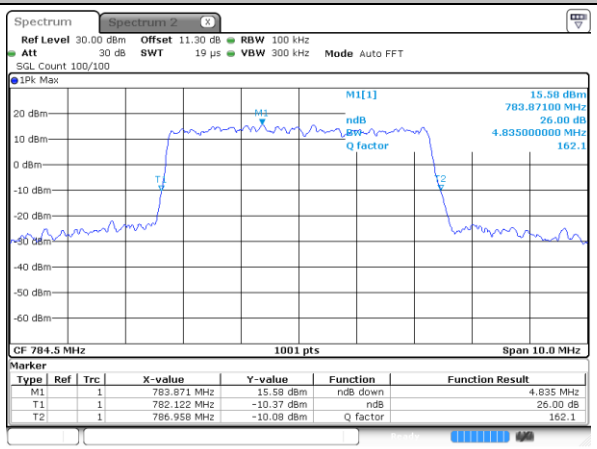
Middle Channel / 5MHz / 16QAM

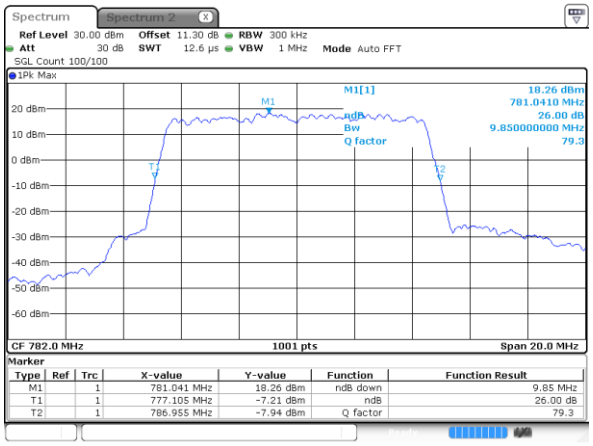
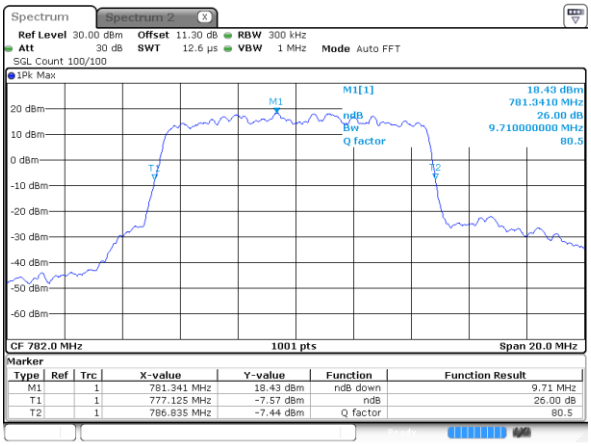


Highest Channel / 5MHz / QPSK



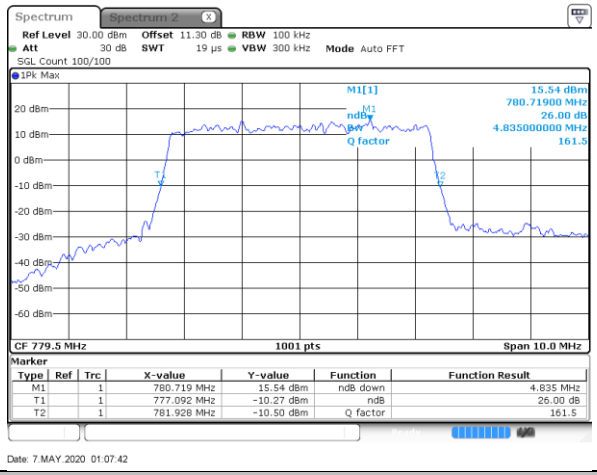
Highest Channel / 5MHz / 16QAM



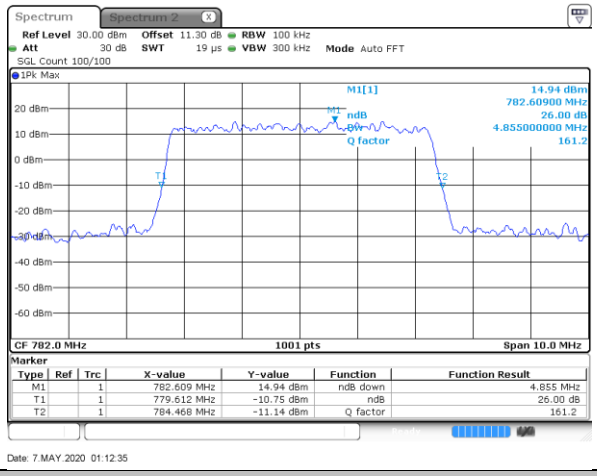
LTE Band 13	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

LTE Band 13

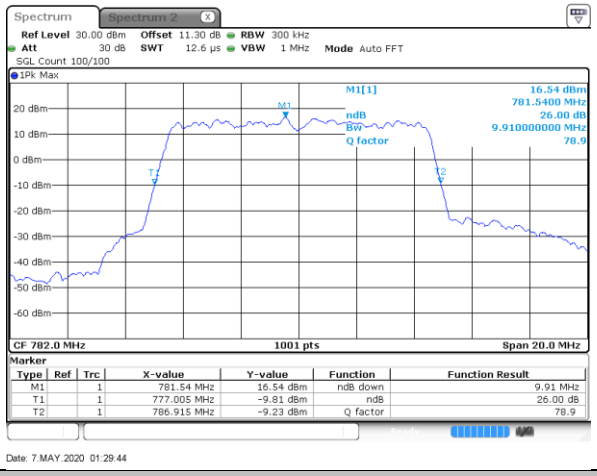
Lowest Channel / 5MHz / 64QAM



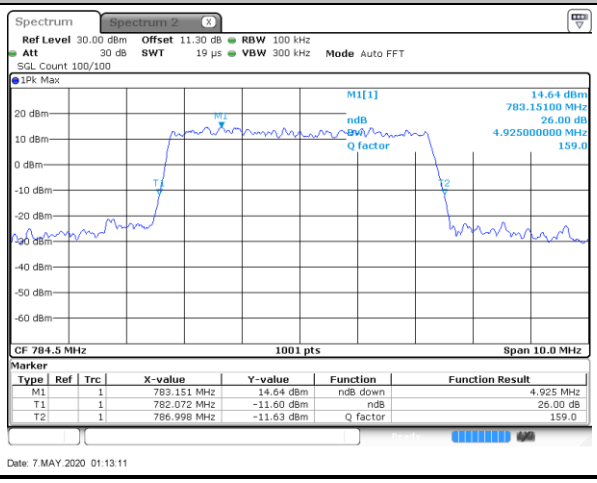
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

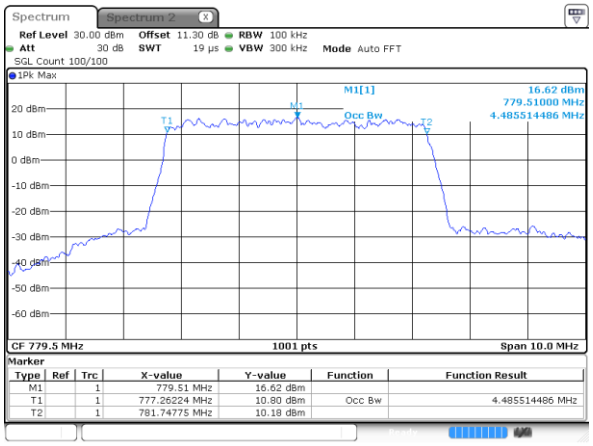


Occupied Bandwidth

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	4.48	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	4.48	8.97	9.01	-	-	-	-
Highest CH	-	-	-	-	4.49	4.47	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.48	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	-	9.03	-	-	-	-	-
Highest CH	-	-	-	-	4.48	-	-	-	-	-	-	-

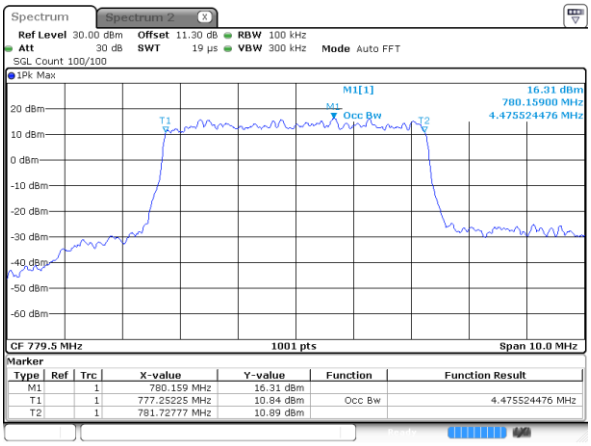
LTE Band 13

Lowest Channel / 5MHz / QPSK



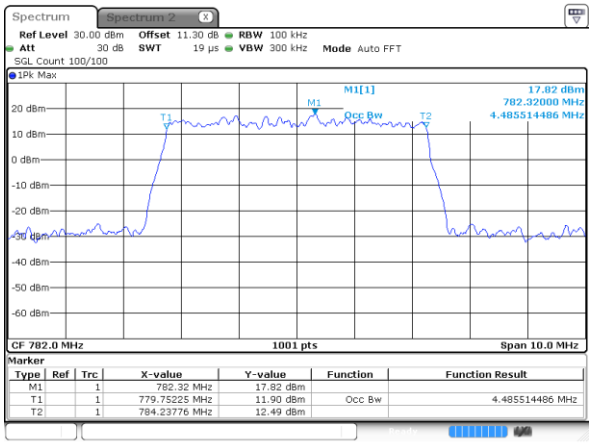
Date: 7.MAY.2020 00:47:38

Lowest Channel / 5MHz / 16QAM



Date: 7.MAY.2020 00:47:50

Middle Channel / 5MHz / QPSK



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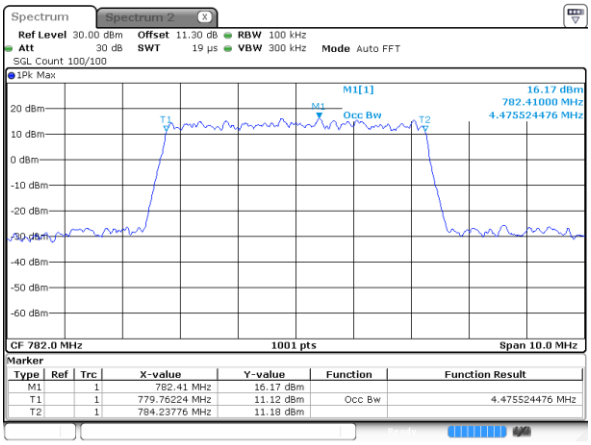
Middle Channel / 5MHz / 16QAM



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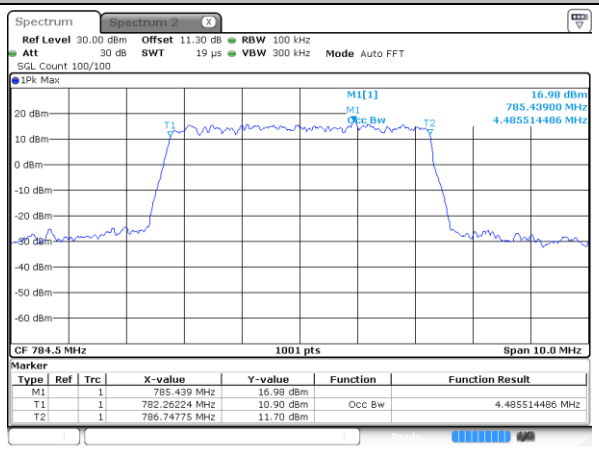
Highest Channel / 5MHz / QPSK



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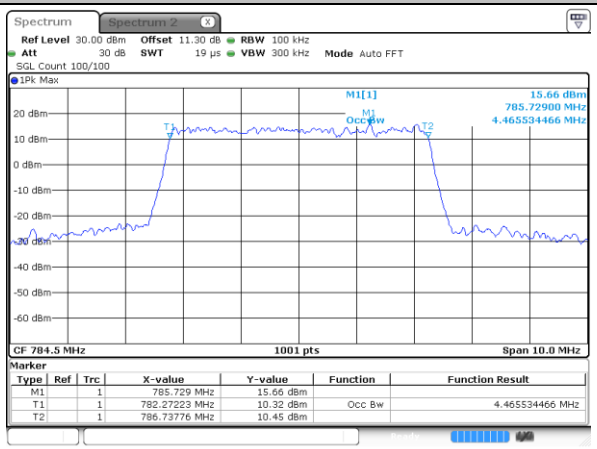
Highest Channel / 5MHz / 16QAM



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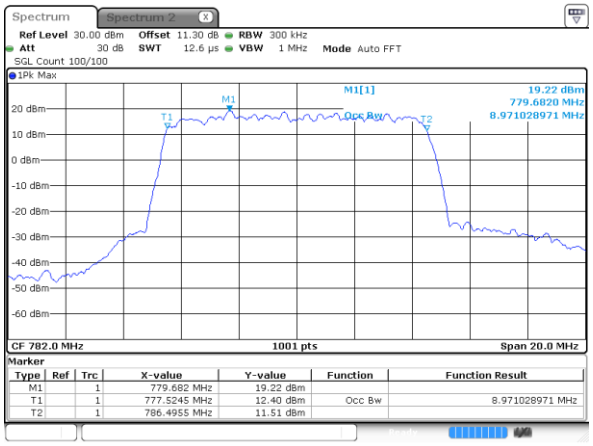
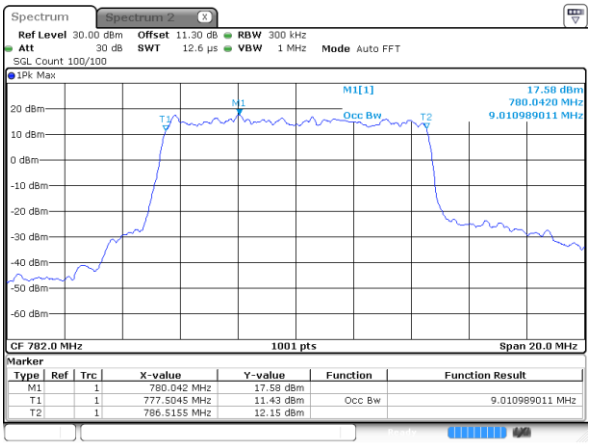
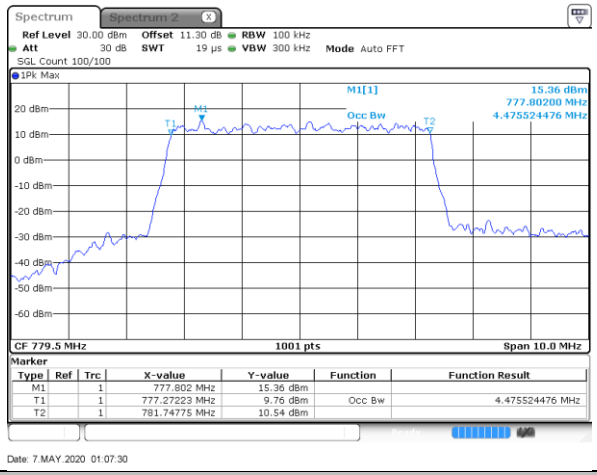
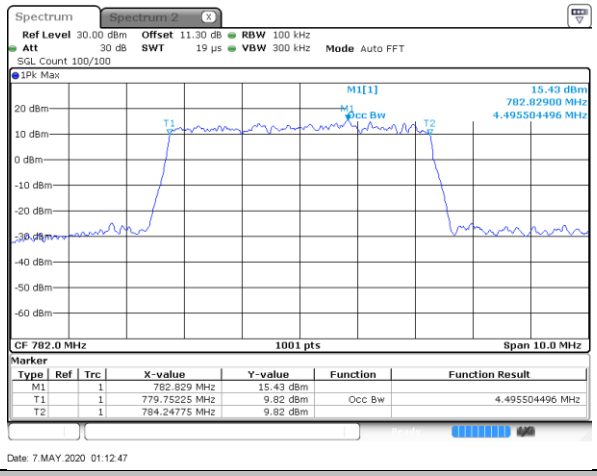
LTE Band 13	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

LTE Band 13

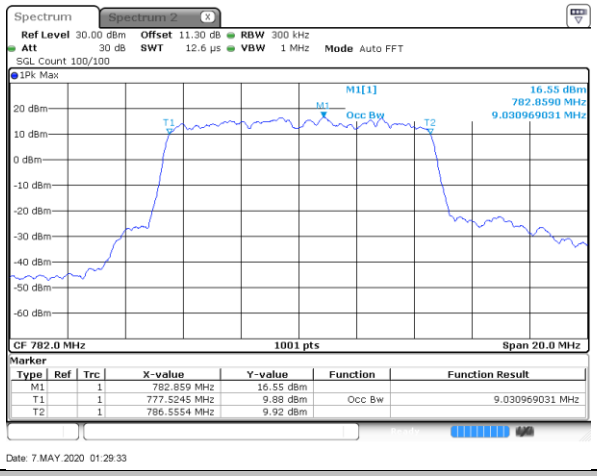
Lowest Channel / 5MHz / 64QAM



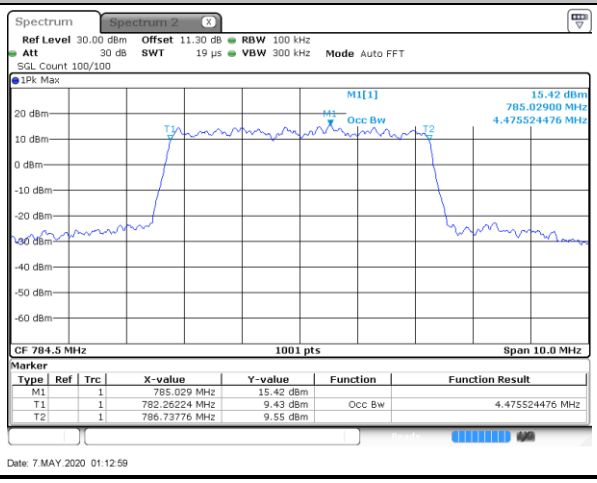
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



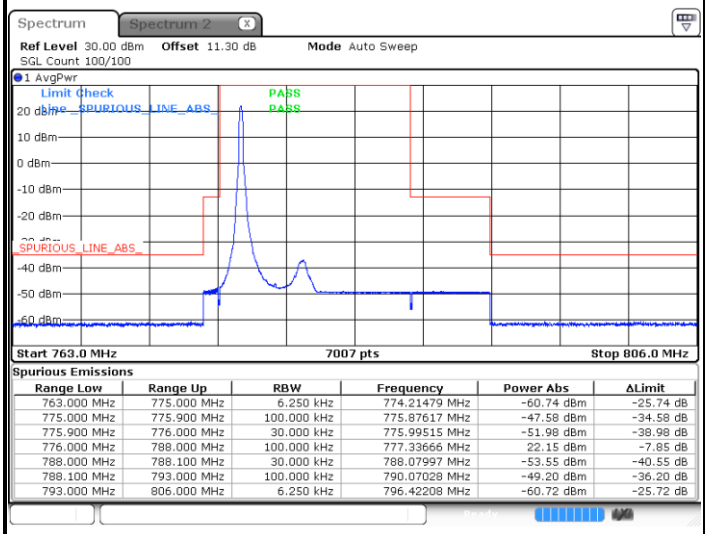
Highest Channel / 5MHz / 64QAM



Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

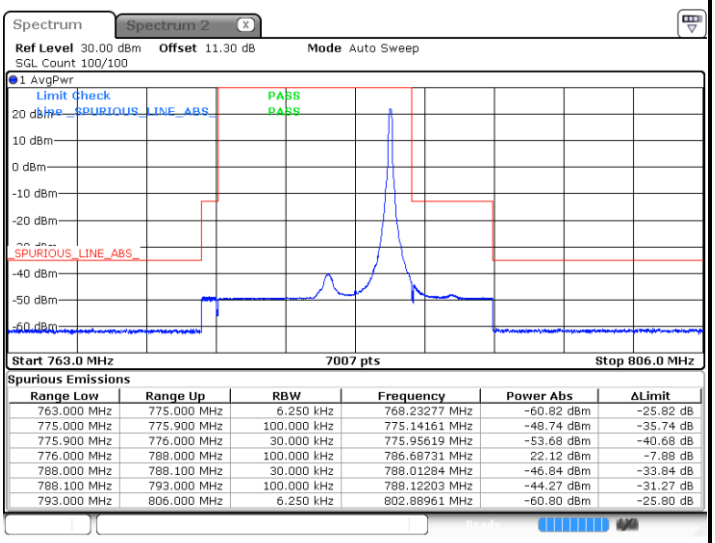


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.21479 MHz	-60.74 dBm	-25.74 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.87617 MHz	-47.58 dBm	-34.58 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99515 MHz	-51.98 dBm	-38.98 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.33666 MHz	22.15 dBm	-7.85 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07997 MHz	-53.55 dBm	-40.55 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.07028 MHz	-49.20 dBm	-36.20 dB
793.000 MHz	806.000 MHz	6.250 kHz	796.42208 MHz	-60.72 dBm	-25.72 dB

Date: 7.MAY.2020 00:54:57

Highest Band Edge / 1 RB

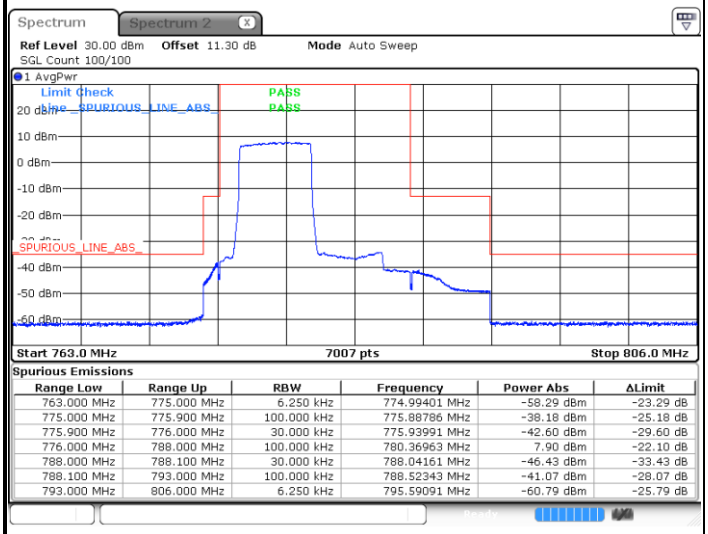


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	768.23277 MHz	-60.82 dBm	-25.82 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.14161 MHz	-48.74 dBm	-35.74 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.95619 MHz	-53.68 dBm	-40.68 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.68731 MHz	22.12 dBm	-7.88 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.01284 MHz	-46.84 dBm	-33.84 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.12203 MHz	-44.27 dBm	-31.27 dB
793.000 MHz	806.000 MHz	6.250 kHz	802.88961 MHz	-60.80 dBm	-25.80 dB

Date: 7.MAY.2020 01:05:56

Lowest Band Edge / Full RB

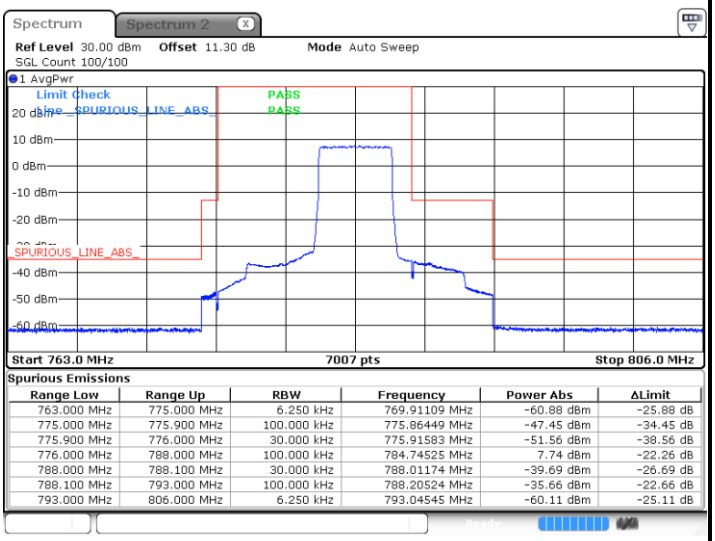


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.99401 MHz	-58.29 dBm	-23.29 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.88786 MHz	-38.18 dBm	-25.18 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.93991 MHz	-42.60 dBm	-29.60 dB
776.000 MHz	788.000 MHz	100.000 kHz	780.36963 MHz	7.90 dBm	-22.10 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.04161 MHz	-46.43 dBm	-33.43 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.52343 MHz	-41.07 dBm	-28.07 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.59091 MHz	-60.79 dBm	-25.79 dB

Date: 7.MAY.2020 00:49:55

Highest Band Edge / Full RB



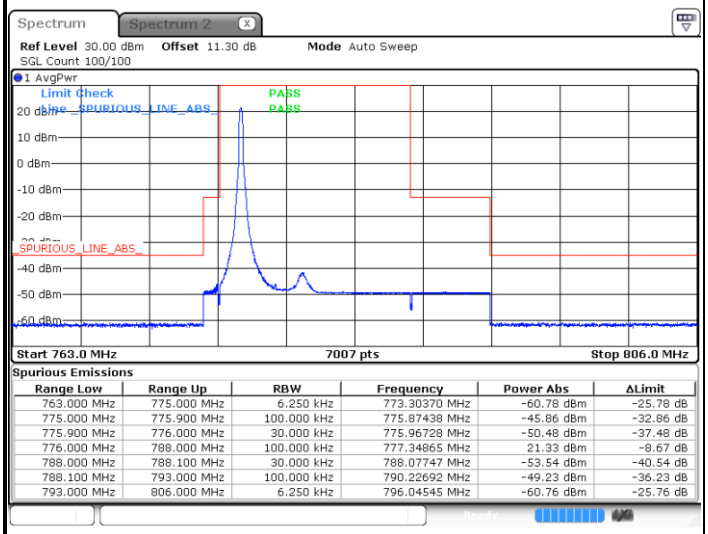
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	769.91109 MHz	-60.88 dBm	-25.88 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.86449 MHz	-47.45 dBm	-34.45 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.91583 MHz	-51.56 dBm	-38.56 dB
776.000 MHz	788.000 MHz	100.000 kHz	784.74525 MHz	7.74 dBm	-22.26 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.01174 MHz	-39.69 dBm	-26.69 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.20524 MHz	-35.66 dBm	-22.66 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.04545 MHz	-60.11 dBm	-25.11 dB

Date: 7.MAY.2020 01:00:54

LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

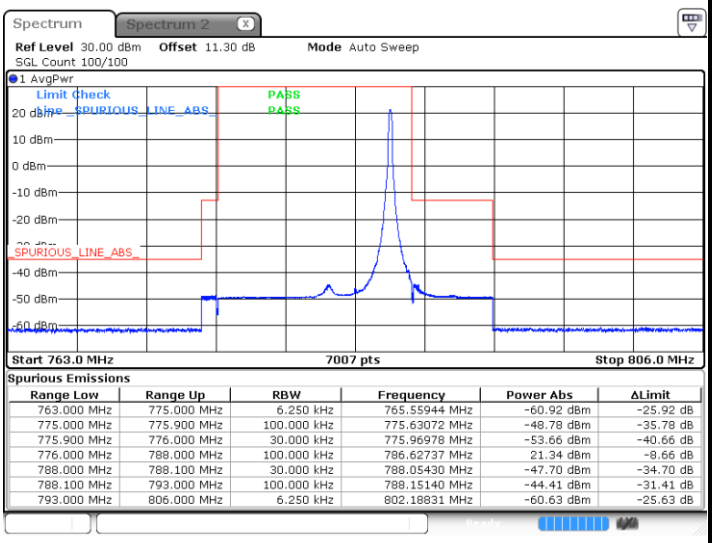


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.30370 MHz	-60.78 dBm	-25.78 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.87438 MHz	-45.86 dBm	-32.86 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96728 MHz	-50.48 dBm	-37.48 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.34865 MHz	21.33 dBm	-8.67 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07747 MHz	-53.54 dBm	-40.54 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.22692 MHz	-49.23 dBm	-36.23 dB
793.000 MHz	806.000 MHz	6.250 kHz	796.04545 MHz	-60.76 dBm	-25.76 dB

Date: 7.MAY.2020 00:53:16

Highest Band Edge / 1 RB

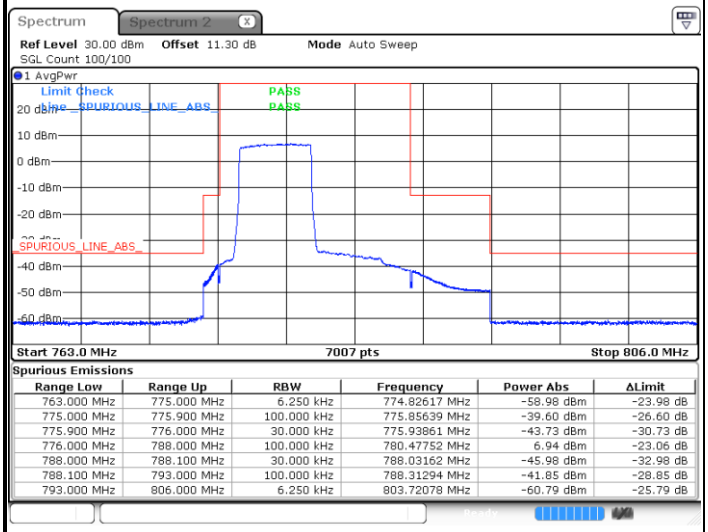


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	765.55944 MHz	-60.92 dBm	-25.92 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.63072 MHz	-48.78 dBm	-35.78 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96978 MHz	-53.66 dBm	-40.66 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.62737 MHz	21.34 dBm	-8.66 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.05430 MHz	-47.70 dBm	-34.70 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.15140 MHz	-44.41 dBm	-31.41 dB
793.000 MHz	806.000 MHz	6.250 kHz	802.18831 MHz	-60.63 dBm	-25.63 dB

Date: 7.MAY.2020 01:04:16

Lowest Band Edge / Full RB

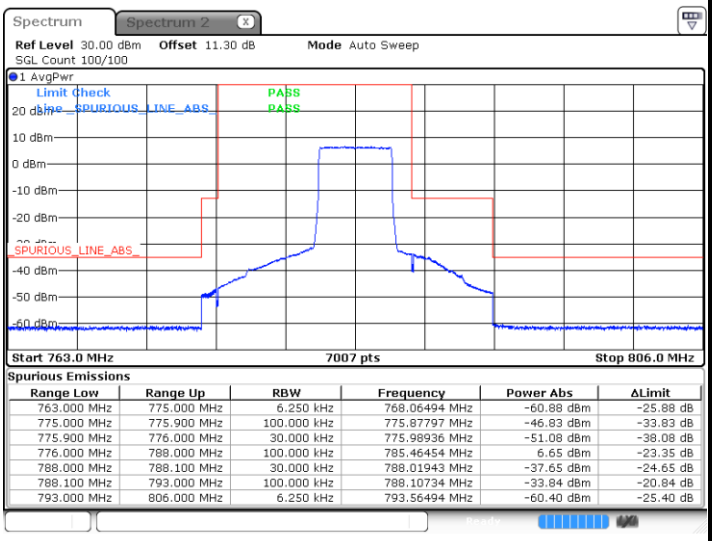


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.82617 MHz	-58.98 dBm	-23.98 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.85639 MHz	-39.60 dBm	-26.60 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.93861 MHz	-43.73 dBm	-30.73 dB
776.000 MHz	788.000 MHz	100.000 kHz	780.47752 MHz	6.94 dBm	-23.06 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.03162 MHz	-45.98 dBm	-32.98 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.31294 MHz	-41.85 dBm	-28.85 dB
793.000 MHz	806.000 MHz	6.250 kHz	803.72078 MHz	-60.79 dBm	-25.79 dB

Date: 7.MAY.2020 00:51:36

Highest Band Edge / Full RB



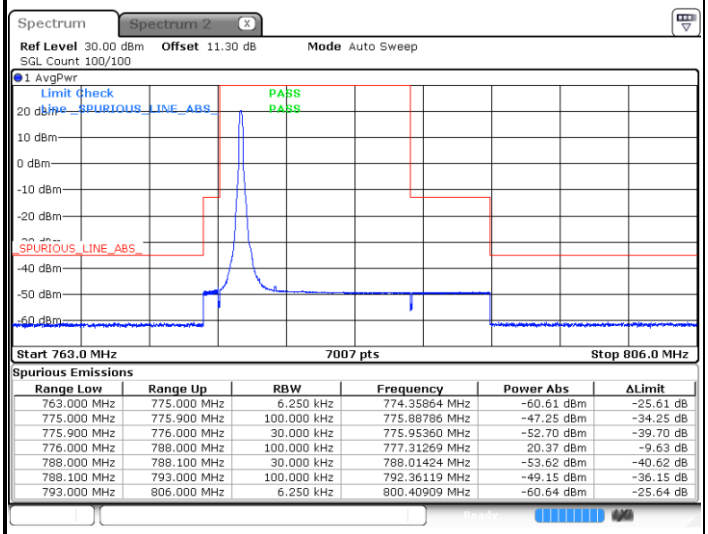
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	768.06494 MHz	-60.88 dBm	-25.88 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.87797 MHz	-46.83 dBm	-33.83 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98936 MHz	-51.08 dBm	-38.08 dB
776.000 MHz	788.000 MHz	100.000 kHz	785.46454 MHz	6.65 dBm	-23.35 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.01943 MHz	-37.65 dBm	-24.65 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10734 MHz	-33.84 dBm	-20.84 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.56494 MHz	-60.40 dBm	-25.40 dB

Date: 7.MAY.2020 01:02:35

LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

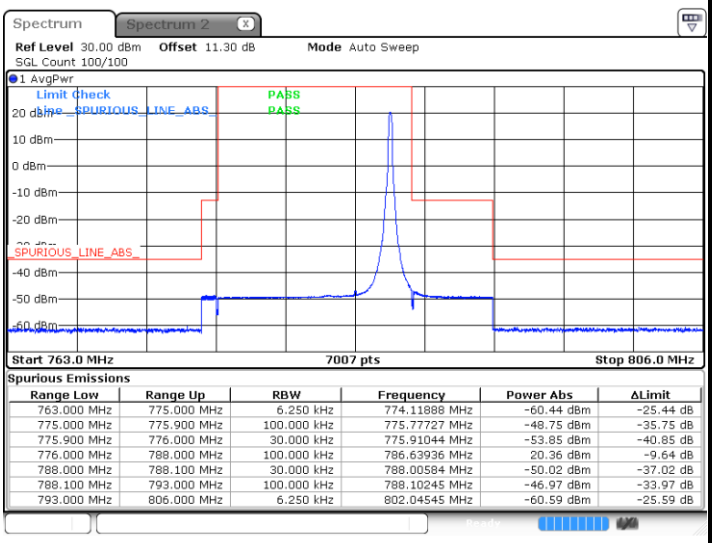


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.35864 MHz	-60.61 dBm	-25.61 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.88786 MHz	-47.25 dBm	-34.25 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.95360 MHz	-52.70 dBm	-39.70 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.31269 MHz	20.37 dBm	-9.63 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.01424 MHz	-53.62 dBm	-40.62 dB
788.100 MHz	793.000 MHz	100.000 kHz	792.36119 MHz	-49.15 dBm	-36.15 dB
793.000 MHz	806.000 MHz	6.250 kHz	800.40909 MHz	-60.64 dBm	-25.64 dB

Date: 7.MAY.2020 01:11:03

Highest Band Edge / 1 RB

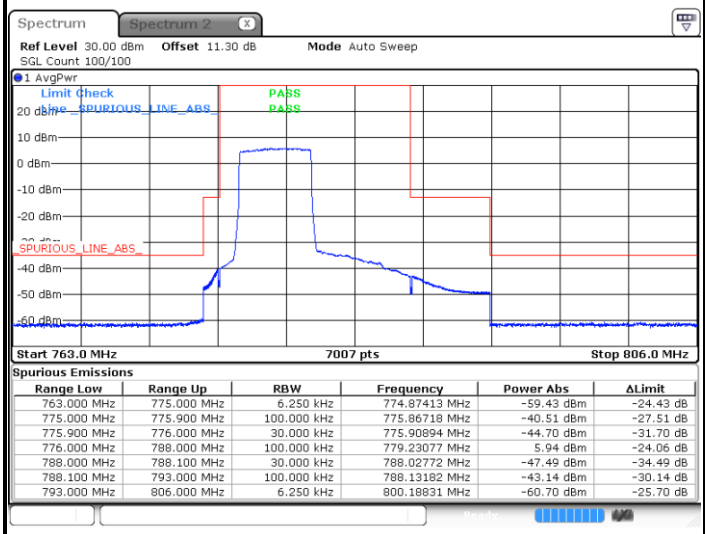


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.11888 MHz	-60.44 dBm	-25.44 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.77727 MHz	-48.75 dBm	-35.75 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.91044 MHz	-53.85 dBm	-40.85 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.63936 MHz	20.36 dBm	-9.64 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00584 MHz	-50.02 dBm	-37.02 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10245 MHz	-46.97 dBm	-33.97 dB
793.000 MHz	806.000 MHz	6.250 kHz	802.04545 MHz	-60.59 dBm	-25.59 dB

Date: 7.MAY.2020 01:16:32

Lowest Band Edge / Full RB

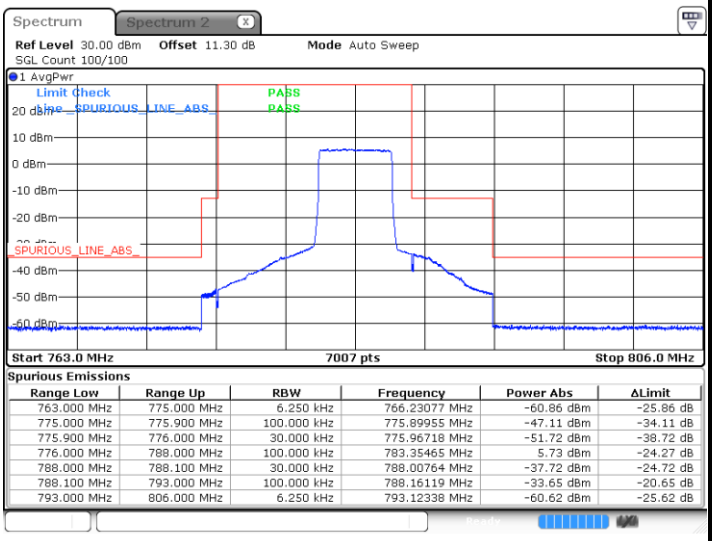


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.87413 MHz	-59.43 dBm	-24.43 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.86718 MHz	-40.51 dBm	-27.51 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.90894 MHz	-44.70 dBm	-31.70 dB
776.000 MHz	788.000 MHz	100.000 kHz	779.23077 MHz	5.94 dBm	-24.06 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02772 MHz	-47.49 dBm	-34.49 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.13182 MHz	-43.14 dBm	-30.14 dB
793.000 MHz	806.000 MHz	6.250 kHz	800.18831 MHz	-60.70 dBm	-25.70 dB

Date: 7.MAY.2020 01:09:22

Highest Band Edge / Full RB



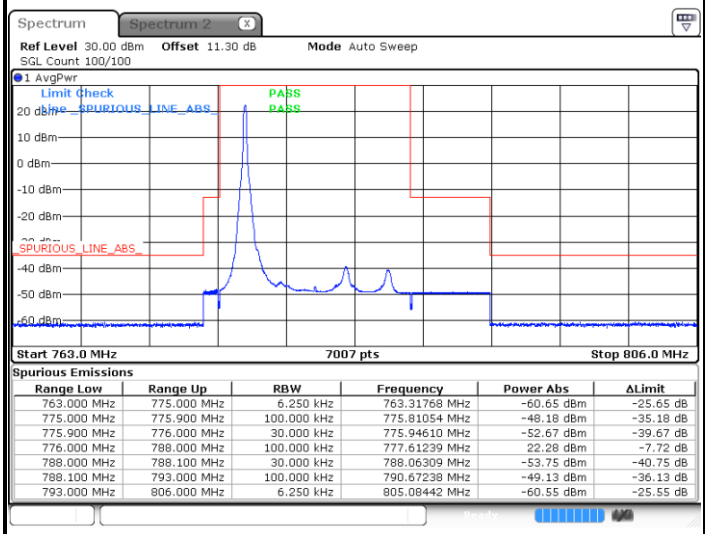
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	766.23077 MHz	-60.86 dBm	-25.86 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-47.11 dBm	-34.11 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96718 MHz	-51.72 dBm	-38.72 dB
776.000 MHz	788.000 MHz	100.000 kHz	783.35465 MHz	5.73 dBm	-24.27 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00764 MHz	-37.72 dBm	-24.72 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.16119 MHz	-33.65 dBm	-20.65 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.12338 MHz	-60.62 dBm	-25.62 dB

Date: 7.MAY.2020 01:14:51

LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

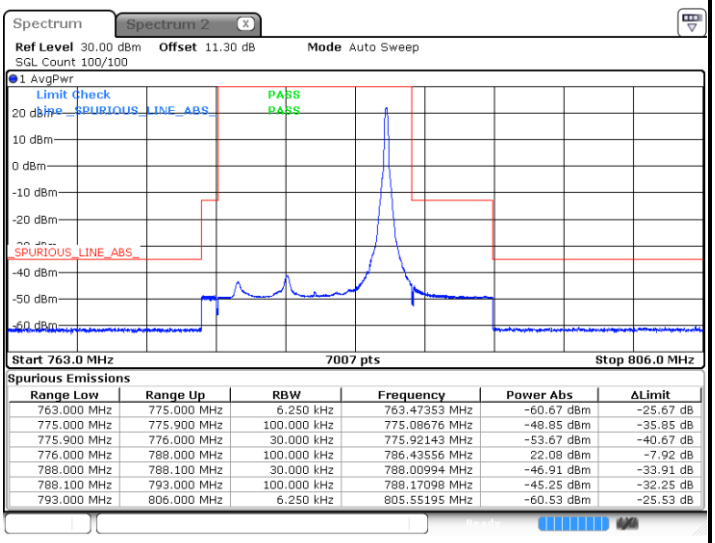


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	763.31768 MHz	-60.65 dBm	-25.65 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.81054 MHz	-48.18 dBm	-35.18 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.94610 MHz	-52.67 dBm	-39.67 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.61239 MHz	22.28 dBm	-7.72 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.06309 MHz	-53.75 dBm	-40.75 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.67238 MHz	-49.13 dBm	-36.13 dB
793.000 MHz	806.000 MHz	6.250 kHz	805.08442 MHz	-60.55 dBm	-25.55 dB

Date: 7.MAY.2020 01:24:40

Highest Band Edge / 1 RB

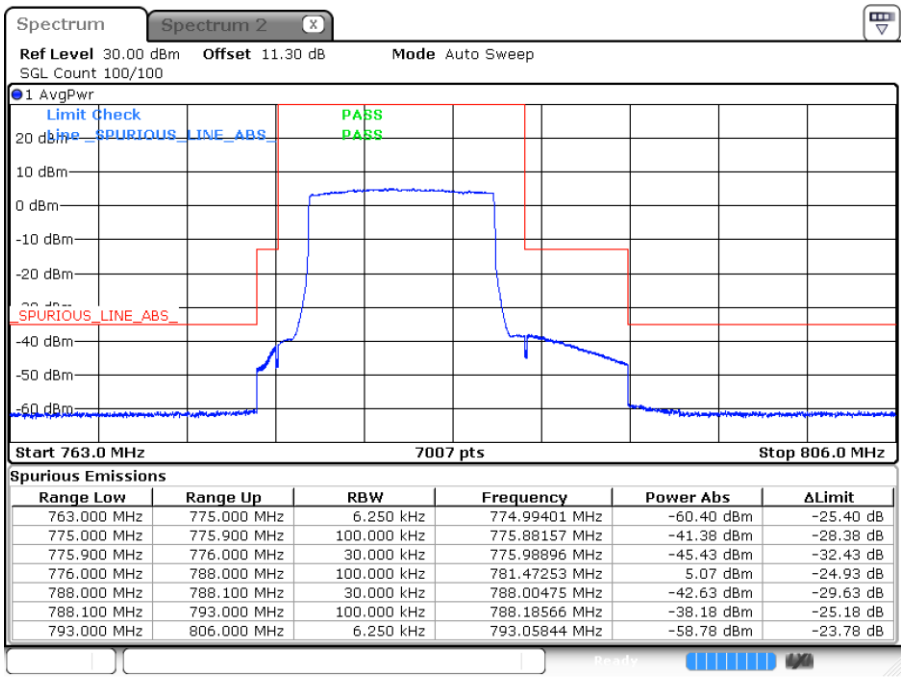


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	763.47353 MHz	-60.67 dBm	-25.67 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.08676 MHz	-48.85 dBm	-35.85 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.92143 MHz	-53.67 dBm	-40.67 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.43556 MHz	22.08 dBm	-7.92 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00994 MHz	-46.91 dBm	-33.91 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.17098 MHz	-45.25 dBm	-32.25 dB
793.000 MHz	806.000 MHz	6.250 kHz	805.55195 MHz	-60.53 dBm	-25.53 dB

Date: 7.MAY.2020 01:26:21

Band Edge / Full RB



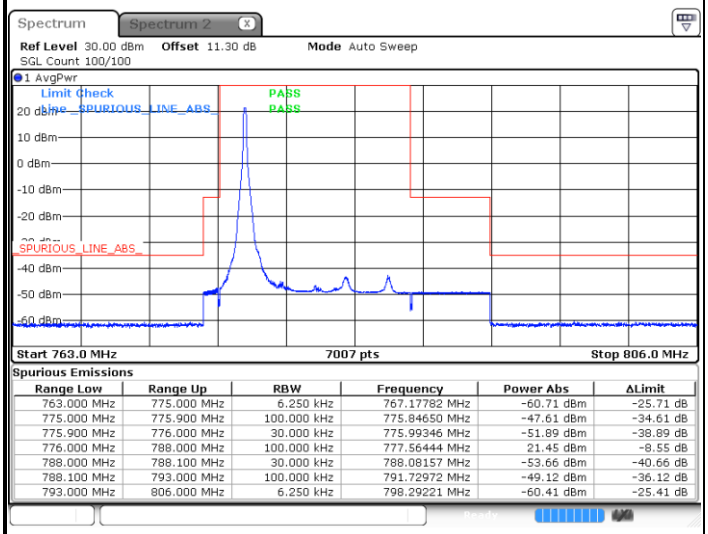
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.99401 MHz	-60.40 dBm	-25.40 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.88157 MHz	-41.38 dBm	-28.38 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98896 MHz	-45.43 dBm	-32.43 dB
776.000 MHz	788.000 MHz	100.000 kHz	781.47253 MHz	5.07 dBm	-24.93 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00475 MHz	-42.63 dBm	-29.63 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.18566 MHz	-38.18 dBm	-25.18 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.05844 MHz	-58.78 dBm	-23.78 dB

Date: 7.MAY.2020 01:19:40

LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

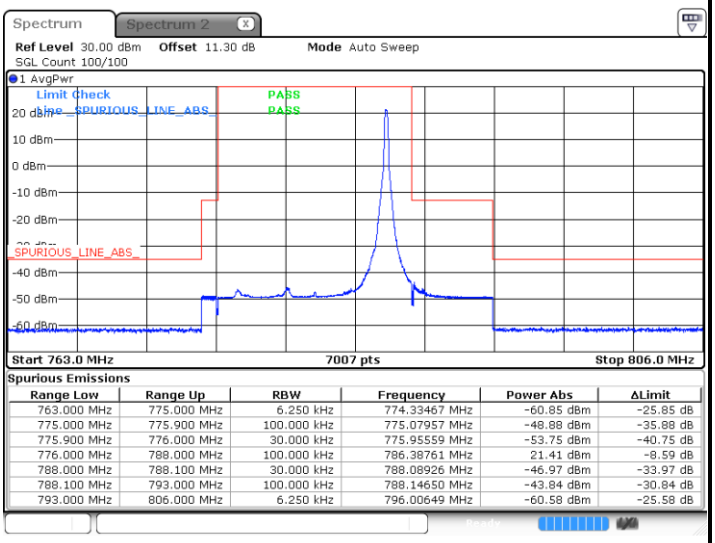


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	767.17782 MHz	-60.71 dBm	-25.71 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.84650 MHz	-47.61 dBm	-34.61 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99346 MHz	-51.89 dBm	-38.89 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.56444 MHz	21.45 dBm	-8.55 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.08157 MHz	-53.66 dBm	-40.66 dB
788.100 MHz	793.000 MHz	100.000 kHz	791.72972 MHz	-49.12 dBm	-36.12 dB
793.000 MHz	806.000 MHz	6.250 kHz	798.29221 MHz	-60.41 dBm	-25.41 dB

Date: 7.MAY.2020 01:23:00

Highest Band Edge / 1 RB

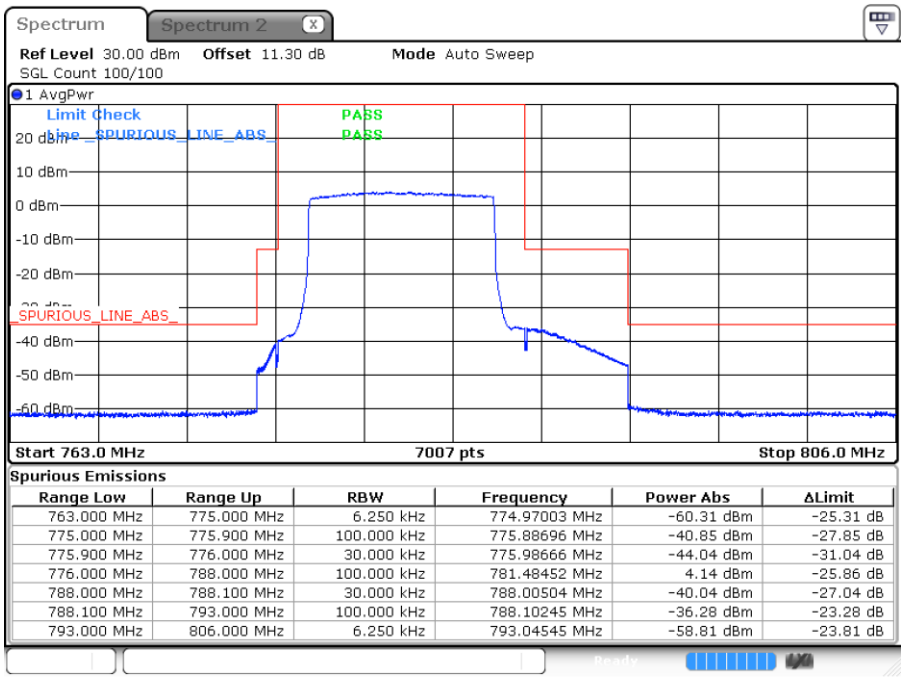


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.33467 MHz	-60.85 dBm	-25.85 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.07957 MHz	-48.88 dBm	-35.88 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.95559 MHz	-53.75 dBm	-40.75 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.38761 MHz	21.41 dBm	-8.59 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.08926 MHz	-46.97 dBm	-33.97 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.14650 MHz	-43.84 dBm	-30.84 dB
793.000 MHz	806.000 MHz	6.250 kHz	796.00649 MHz	-60.58 dBm	-25.58 dB

Date: 7.MAY.2020 01:28:01

Band Edge / Full RB



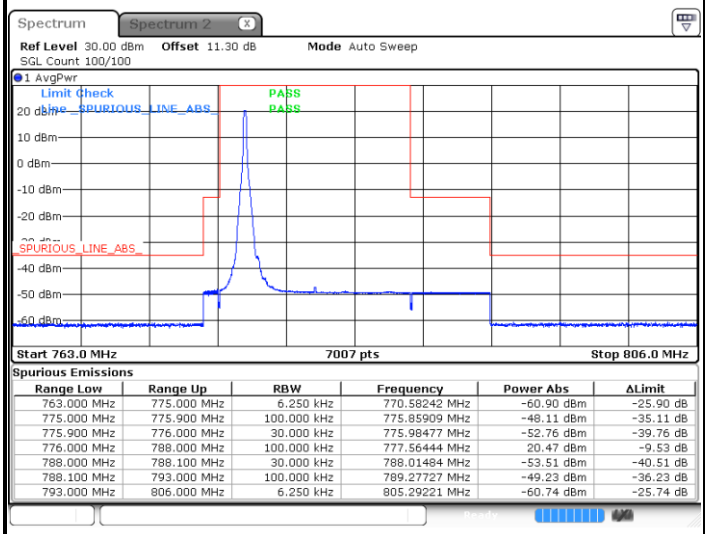
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.97003 MHz	-60.31 dBm	-25.31 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.88696 MHz	-40.85 dBm	-27.85 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98666 MHz	-44.04 dBm	-31.04 dB
776.000 MHz	788.000 MHz	100.000 kHz	781.48452 MHz	4.14 dBm	-25.86 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00504 MHz	-40.04 dBm	-27.04 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10245 MHz	-36.28 dBm	-23.28 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.04545 MHz	-58.81 dBm	-23.81 dB

Date: 7.MAY.2020 01:21:20

LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

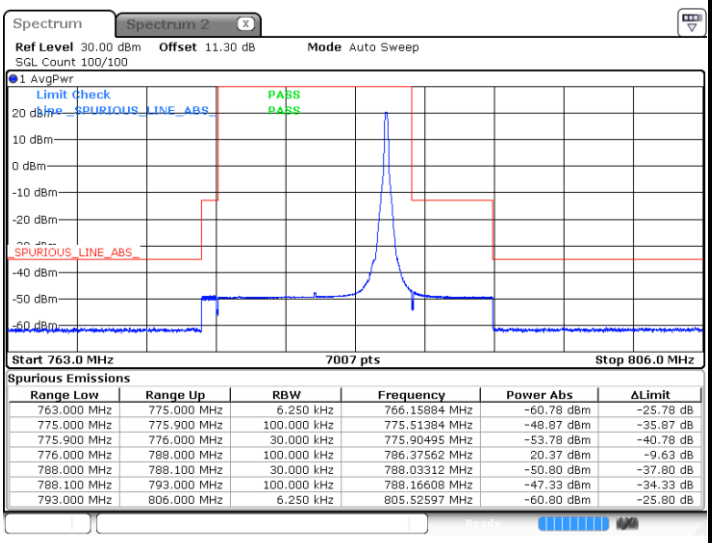


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	770.58242 MHz	-60.90 dBm	-25.90 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.85909 MHz	-48.11 dBm	-35.11 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98477 MHz	-52.76 dBm	-39.76 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.56444 MHz	20.47 dBm	-9.53 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.01484 MHz	-53.51 dBm	-40.51 dB
788.100 MHz	793.000 MHz	100.000 kHz	789.27727 MHz	-49.23 dBm	-36.23 dB
793.000 MHz	806.000 MHz	6.250 kHz	805.29221 MHz	-60.74 dBm	-25.74 dB

Date: 7.MAY.2020 01:33:04

Highest Band Edge / 1 RB

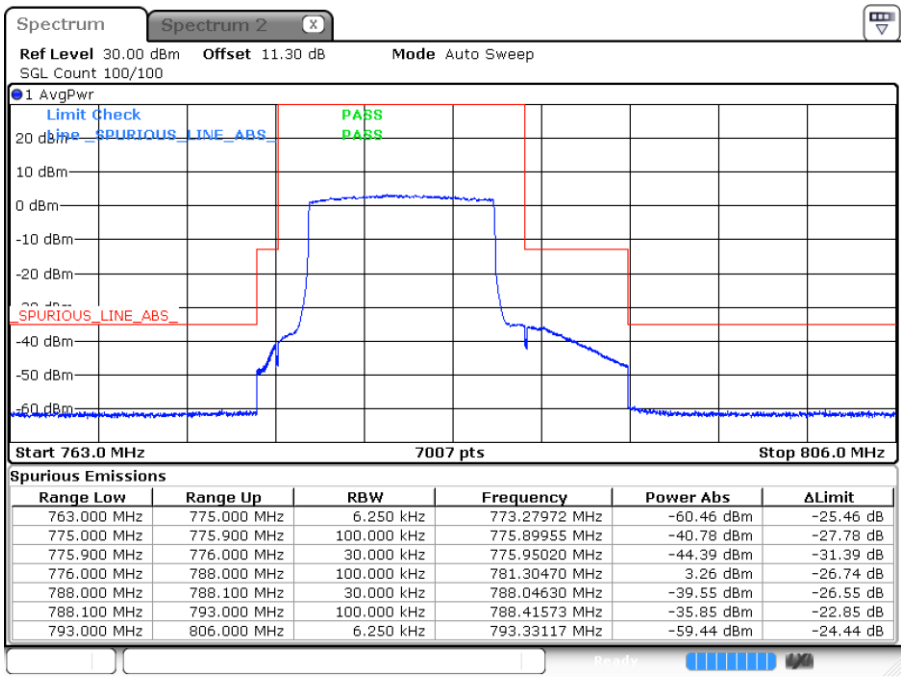


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	766.15884 MHz	-60.78 dBm	-25.78 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.51384 MHz	-48.87 dBm	-35.87 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.90495 MHz	-53.78 dBm	-40.78 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.37562 MHz	20.37 dBm	-9.63 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.03312 MHz	-50.80 dBm	-37.80 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.16608 MHz	-47.33 dBm	-34.33 dB
793.000 MHz	806.000 MHz	6.250 kHz	805.52597 MHz	-60.80 dBm	-25.80 dB

Date: 7.MAY.2020 01:34:44

Band Edge / Full RB



Spurious Emissions

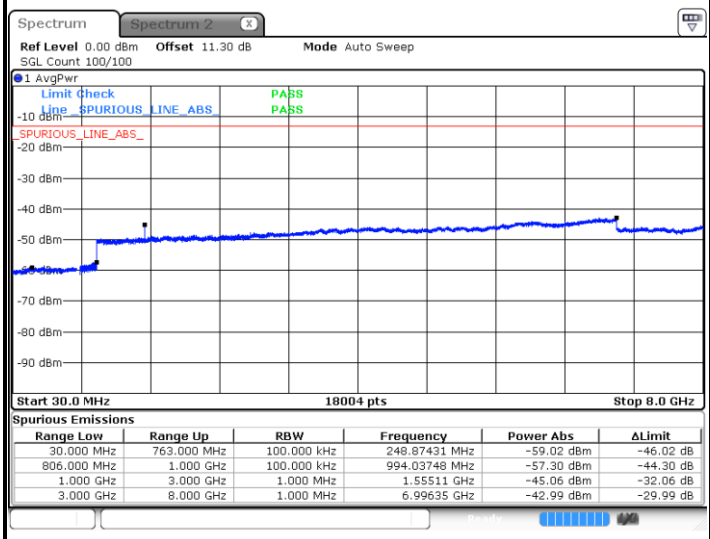
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.27972 MHz	-60.46 dBm	-25.46 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-40.78 dBm	-27.78 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.95020 MHz	-44.39 dBm	-31.39 dB
776.000 MHz	788.000 MHz	100.000 kHz	781.30470 MHz	3.26 dBm	-26.74 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.04630 MHz	-39.55 dBm	-26.55 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.41573 MHz	-35.85 dBm	-22.85 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.33117 MHz	-59.44 dBm	-24.44 dB

Date: 7.MAY.2020 01:31:24

Conducted Spurious Emission

LTE Band 13 / 5MHz

Lowest Channel / QPSK

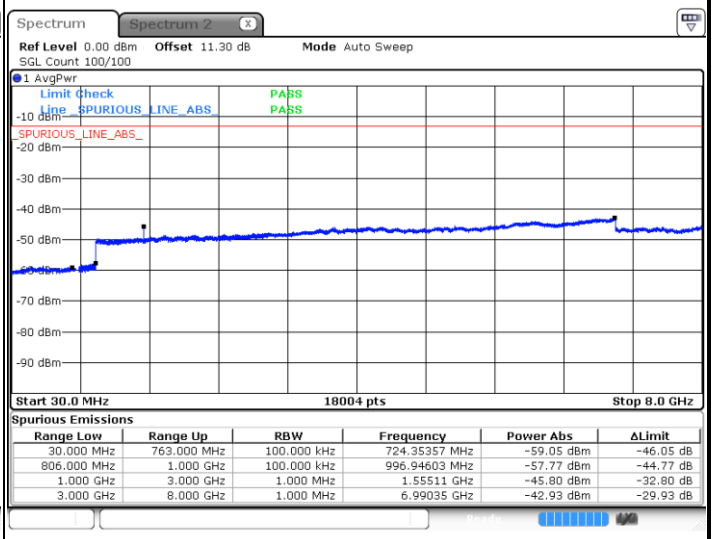


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	248.87431 MHz	-59.02 dBm	-46.02 dB
806.000 MHz	1.000 GHz	100.000 kHz	994.03748 MHz	-57.30 dBm	-44.30 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55511 GHz	-45.06 dBm	-32.06 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99635 GHz	-42.99 dBm	-29.99 dB

Date: 7.MAY.2020 00:55:39

Lowest Channel / 16QAM

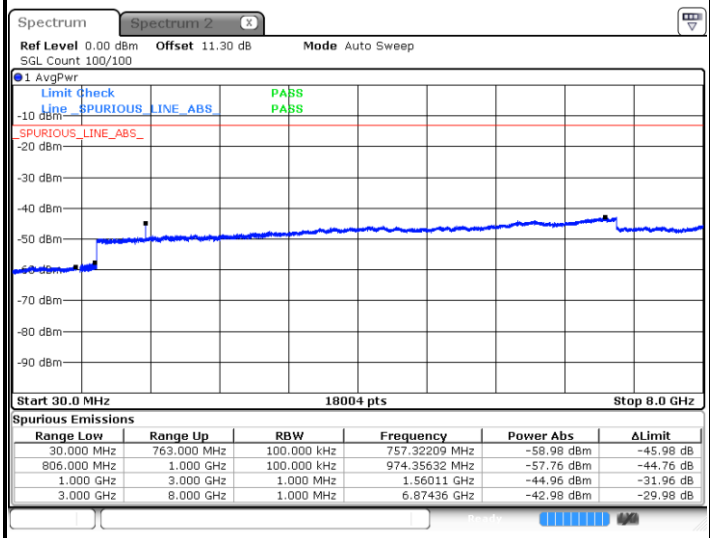


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	724.35357 MHz	-59.05 dBm	-46.05 dB
806.000 MHz	1.000 GHz	100.000 kHz	996.94603 MHz	-57.77 dBm	-44.77 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55511 GHz	-45.80 dBm	-32.80 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99035 GHz	-42.93 dBm	-29.93 dB

Date: 7.MAY.2020 00:56:19

Middle Channel / QPSK

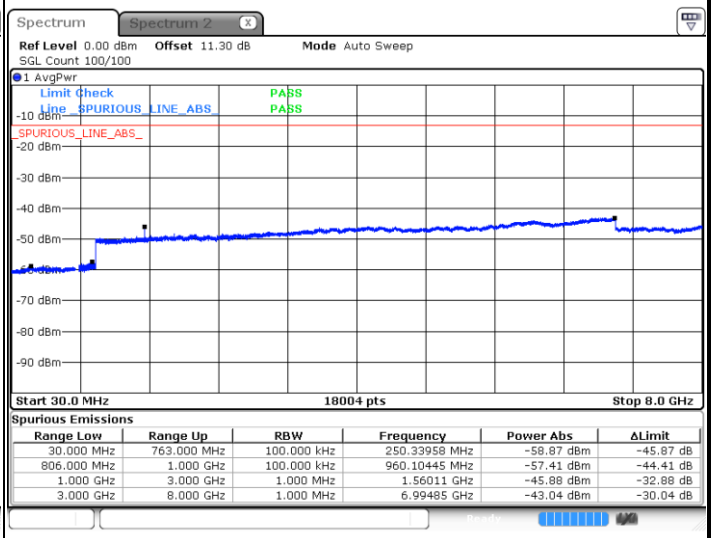


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	757.32209 MHz	-58.98 dBm	-45.98 dB
806.000 MHz	1.000 GHz	100.000 kHz	974.35632 MHz	-57.76 dBm	-44.76 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56011 GHz	-44.96 dBm	-31.96 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.87436 GHz	-42.98 dBm	-29.98 dB

Date: 7.MAY.2020 00:57:39

Middle Channel / 16QAM



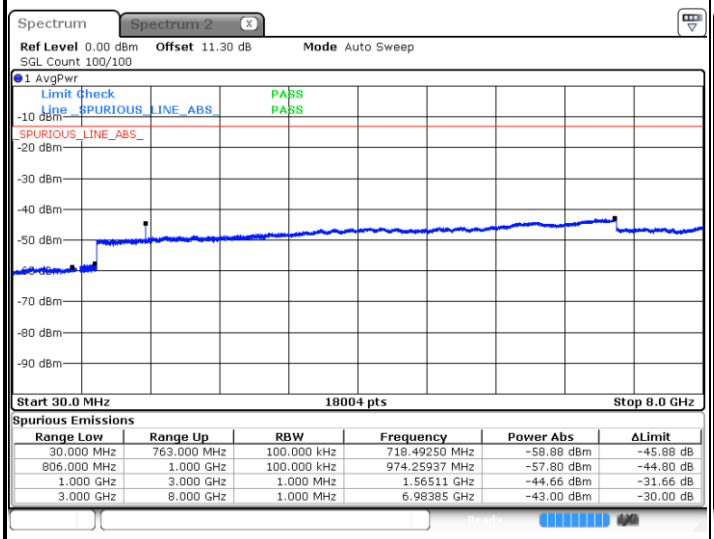
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	250.33958 MHz	-58.87 dBm	-45.87 dB
806.000 MHz	1.000 GHz	100.000 kHz	960.10445 MHz	-57.41 dBm	-44.41 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56011 GHz	-45.88 dBm	-32.88 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99485 GHz	-43.04 dBm	-30.04 dB

Date: 7.MAY.2020 00:56:59

LTE Band 13 / 5MHz

Highest Channel / QPSK

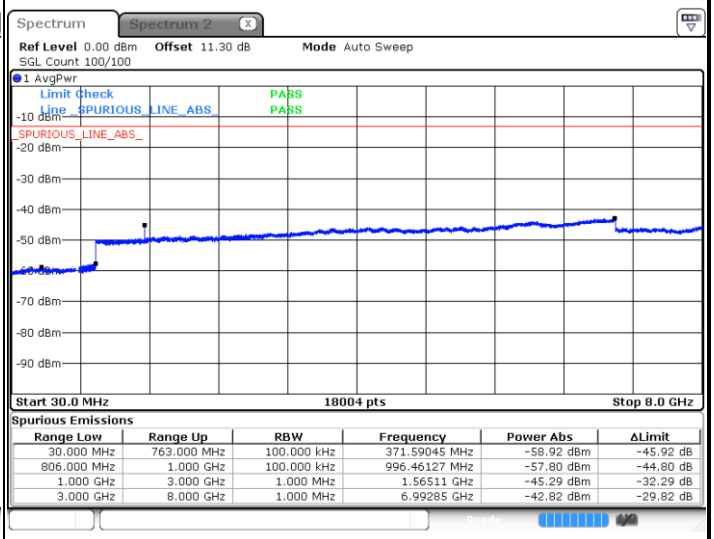


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	718.49250 MHz	-58.88 dBm	-45.88 dB
806.000 MHz	1.000 GHz	100.000 kHz	974.25937 MHz	-57.80 dBm	-44.80 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-44.66 dBm	-31.66 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.98385 GHz	-43.00 dBm	-30.00 dB

Date: 7.MAY.2020 01:06:37

Highest Channel / 16QAM



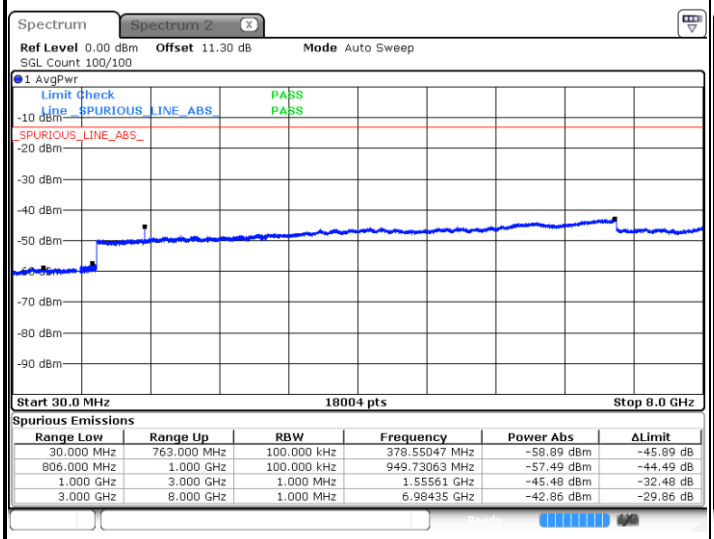
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	371.59045 MHz	-58.92 dBm	-45.92 dB
806.000 MHz	1.000 GHz	100.000 kHz	996.46127 MHz	-57.80 dBm	-44.80 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-45.29 dBm	-32.29 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99285 GHz	-42.82 dBm	-29.82 dB

Date: 7.MAY.2020 01:07:18

LTE Band 13 / 10MHz

Middle Channel / QPSK

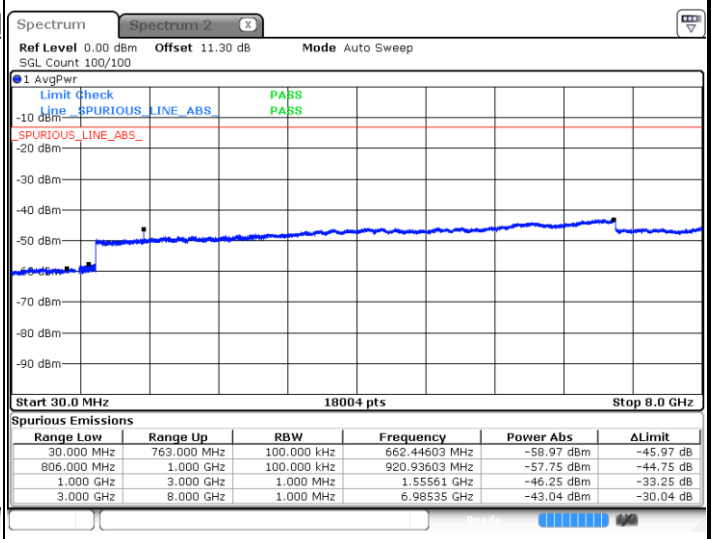


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	378.55047 MHz	-58.89 dBm	-45.89 dB
806.000 MHz	1.000 GHz	100.000 kHz	949.73063 MHz	-57.49 dBm	-44.49 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55561 GHz	-45.48 dBm	-32.48 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.98435 GHz	-42.86 dBm	-29.86 dB

Date: 7.MAY.2020 01:29:21

Middle Channel / 16QAM



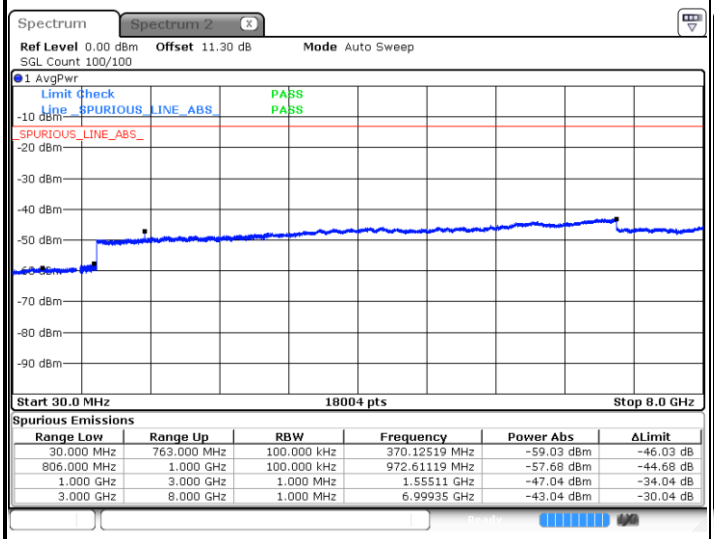
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	662.44603 MHz	-58.97 dBm	-45.97 dB
806.000 MHz	1.000 GHz	100.000 kHz	920.93603 MHz	-57.75 dBm	-44.75 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55561 GHz	-46.25 dBm	-33.25 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.98535 GHz	-43.04 dBm	-30.04 dB

Date: 7.MAY.2020 01:28:41

LTE Band 13 / 5MHz

Lowest Channel / 64QAM

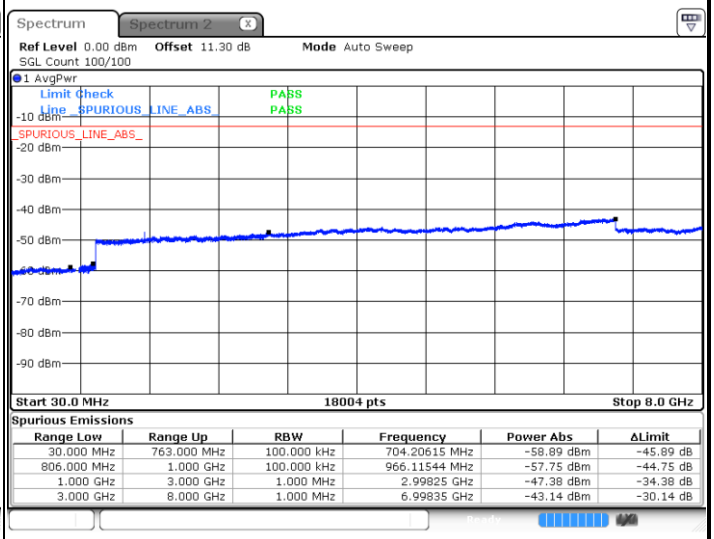


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	370.12519 MHz	-59.03 dBm	-46.03 dB
806.000 MHz	1.000 GHz	100.000 kHz	972.61119 MHz	-57.68 dBm	-44.68 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55511 GHz	-47.04 dBm	-34.04 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99935 GHz	-43.04 dBm	-30.04 dB

Date: 7.MAY.2020 01:11:44

Middle Channel / 64QAM

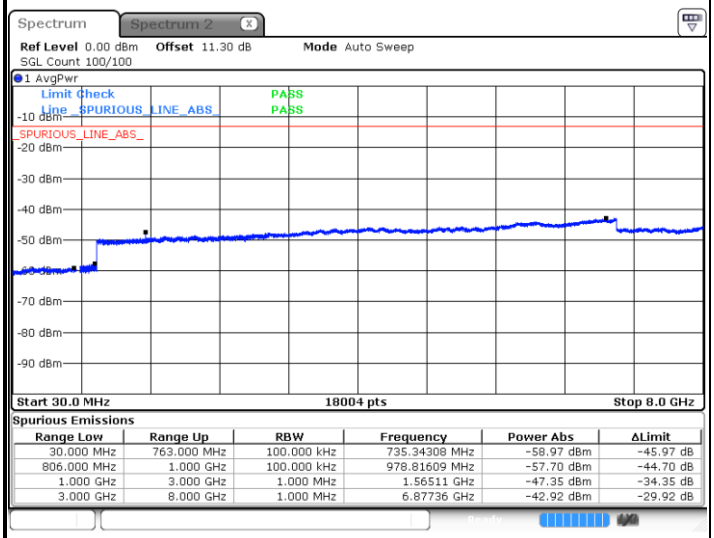


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	704.20615 MHz	-58.89 dBm	-45.89 dB
806.000 MHz	1.000 GHz	100.000 kHz	966.11544 MHz	-57.75 dBm	-44.75 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99825 GHz	-47.38 dBm	-34.38 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99835 GHz	-43.14 dBm	-30.14 dB

Date: 7.MAY.2020 01:12:24

Highest Channel / 64QAM

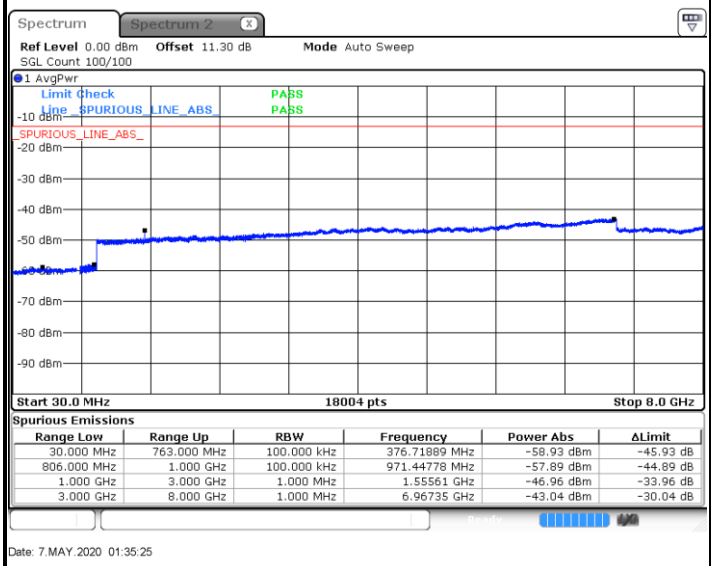


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	735.34308 MHz	-58.97 dBm	-45.97 dB
806.000 MHz	1.000 GHz	100.000 kHz	978.81609 MHz	-57.70 dBm	-44.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-47.35 dBm	-34.35 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.87736 GHz	-42.92 dBm	-29.92 dB

Date: 7.MAY.2020 01:17:13

LTE Band 13 / 10MHz	
Middle Channel / 64QAM	



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	376.71889 MHz	-58.93 dBm	-45.93 dB
806.000 MHz	1.000 GHz	100.000 kHz	971.44778 MHz	-57.89 dBm	-44.89 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55561 GHz	-46.96 dBm	-33.96 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.96735 GHz	-43.04 dBm	-30.04 dB

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	0.0020	PASS
40	Normal Voltage	0.0087	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0073	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0038	
-20	Normal Voltage	0.0155	
-30	Normal Voltage	0.0143	
20	Maximum Voltage	0.0138	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0064	

Note:

1. Normal Voltage =3.87 V.；Battery End Point (BEP) =3.49 V.；Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

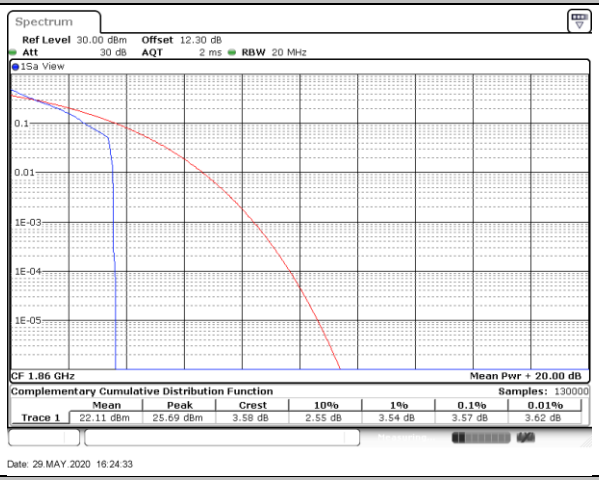
LTE Band 25

Peak-to-Average Ratio

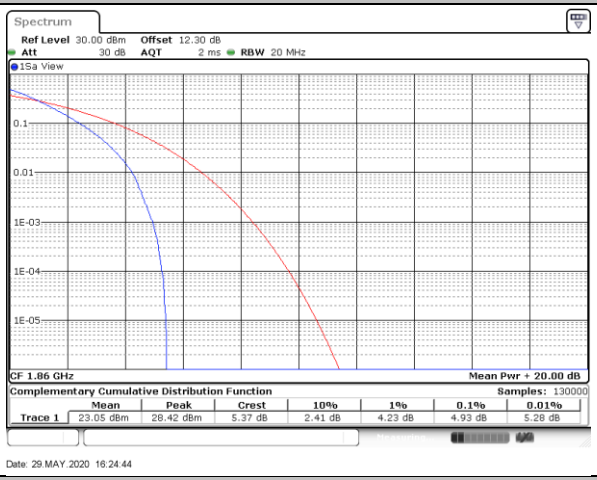
Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	4.93	5.13	5.88	PASS
Middle CH	3.54	4.99	5.48	5.91	
Highest CH	3.57	4.81	4.90	5.86	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.81	6.49	-	-	PASS
Middle CH	6.26	6.55	-	-	
Highest CH	6.20	6.49	-	-	

LTE Band 25 / 20MHz / QPSK

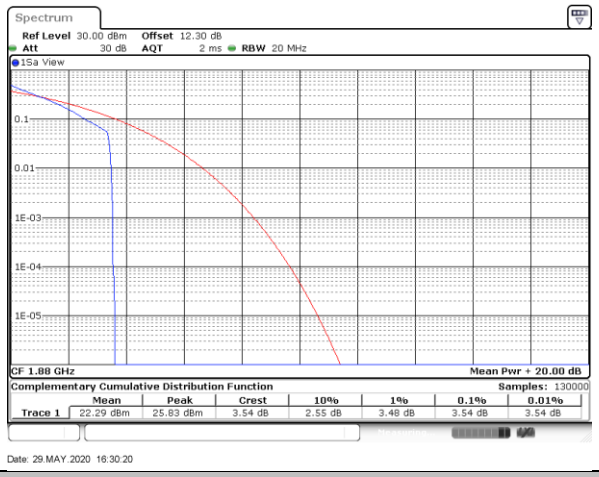
Lowest Channel / 1RB



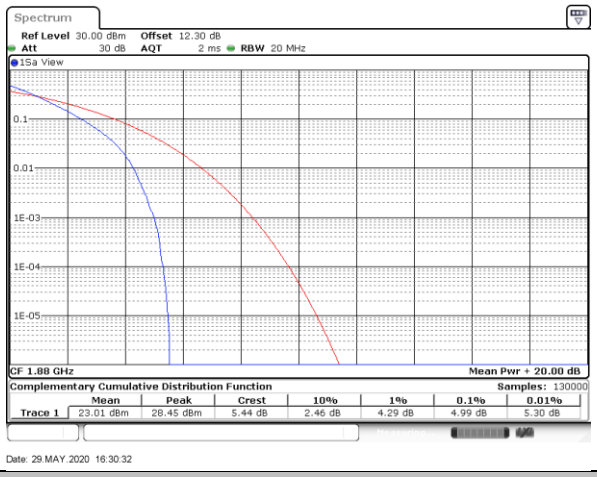
Lowest Channel / Full RB



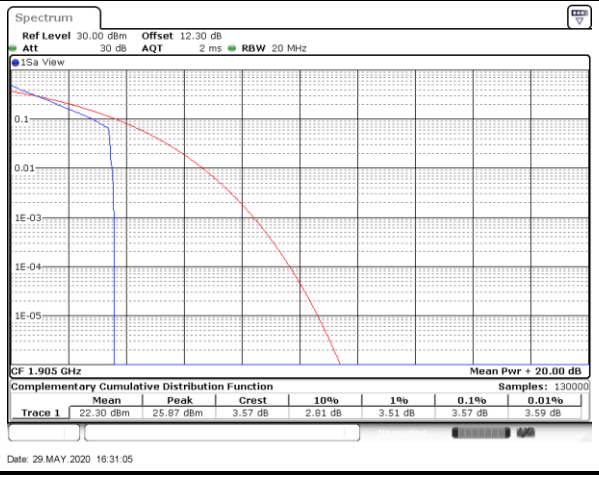
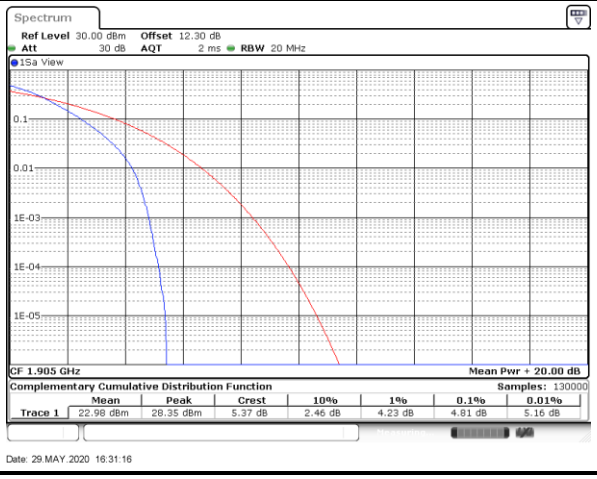
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB