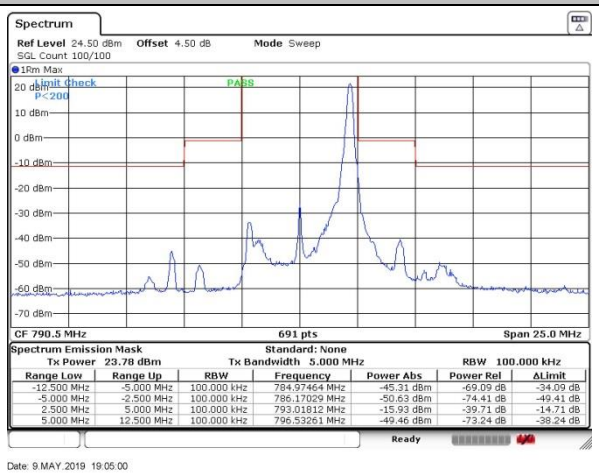
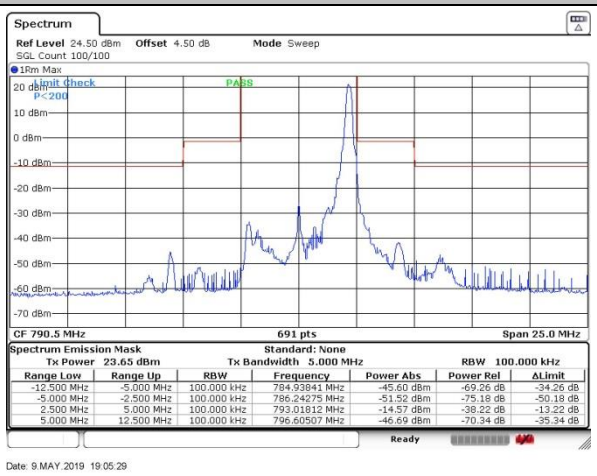
LTE Band 14/ 5M(1RBmax)

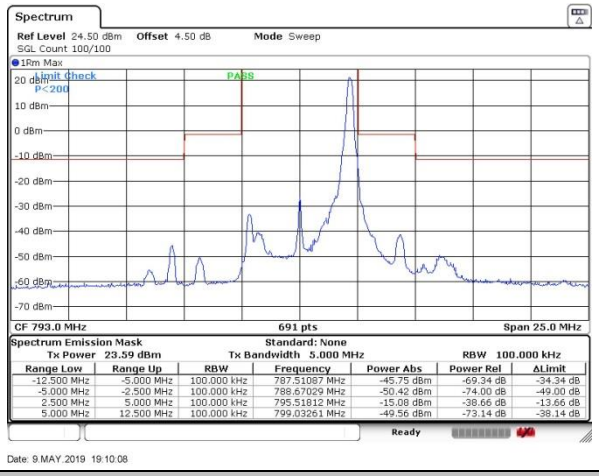
Lowest Channel / 5MHz / QPSK



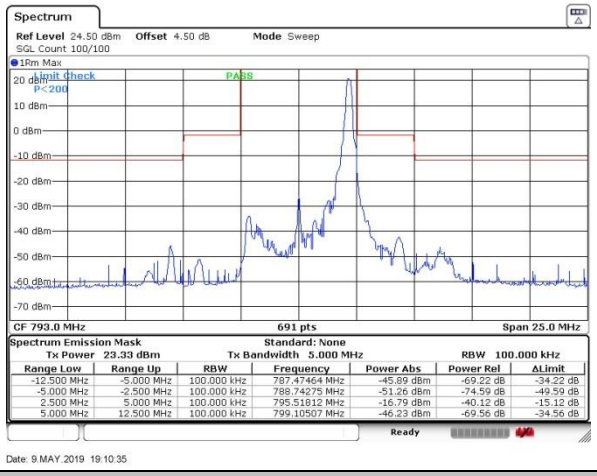
Lowest Channel / 5MHz / 16QAM



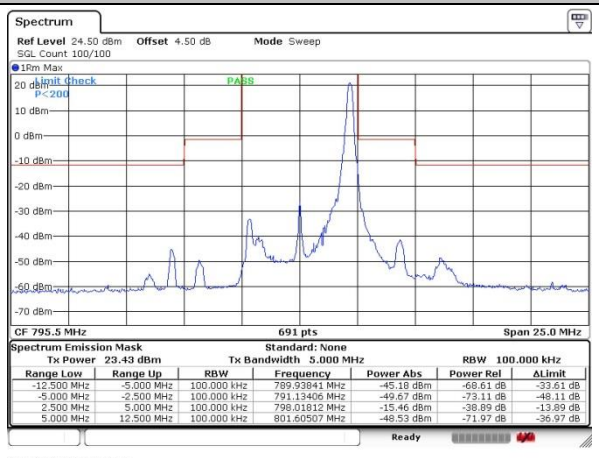
Middle Channel / 5MHz / QPSK



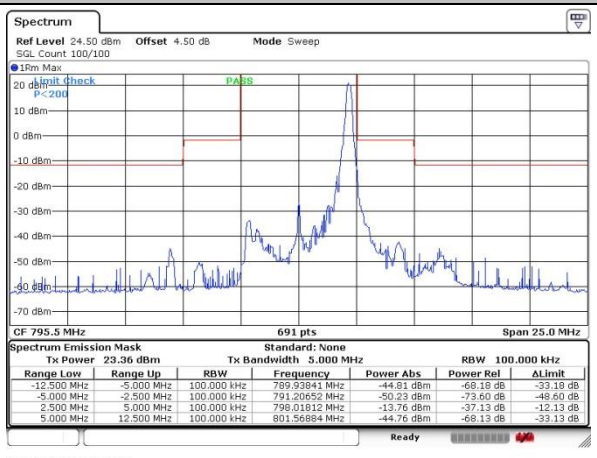
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

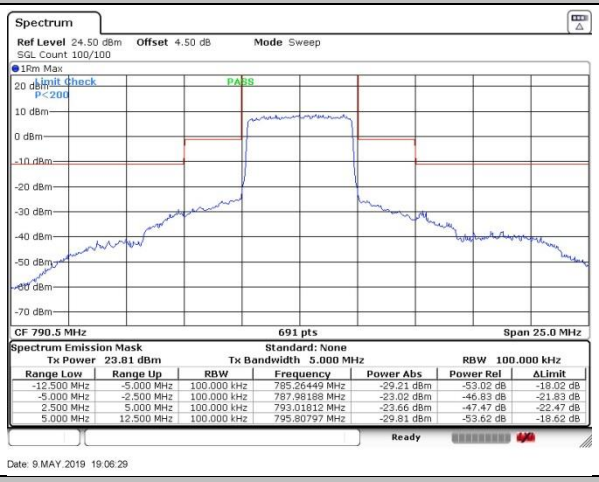


Highest Channel / 5MHz / 16QAM

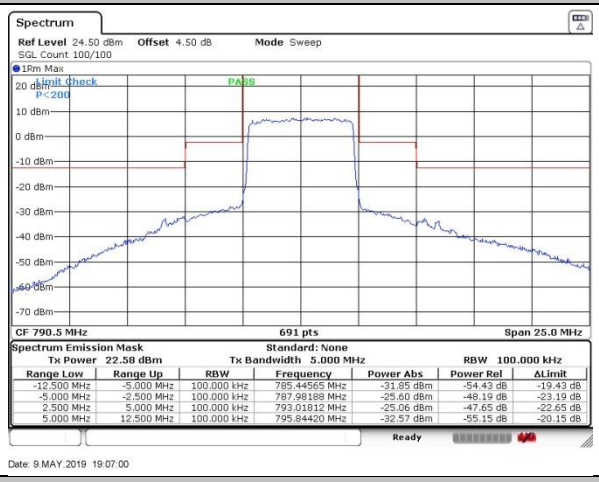


LTE Band 14/ 5M(fullRB0)

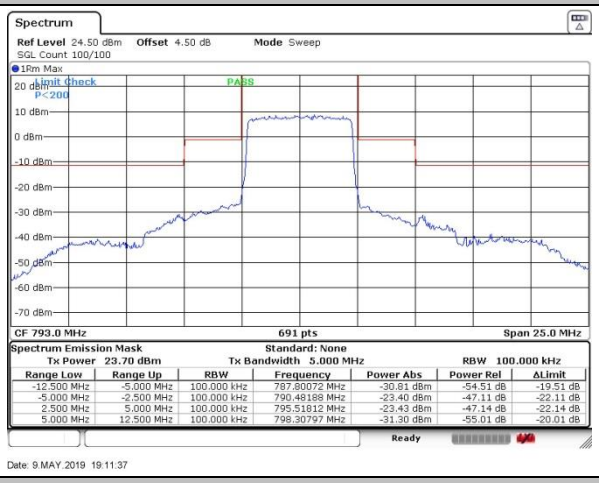
Lowest Channel / 5MHz / QPSK



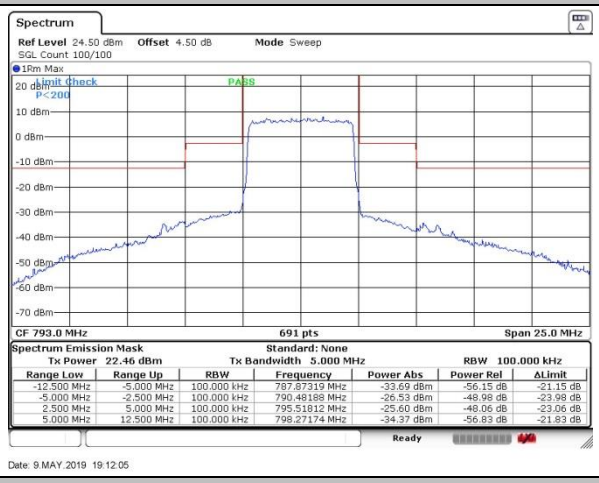
Lowest Channel / 5MHz / 16QAM



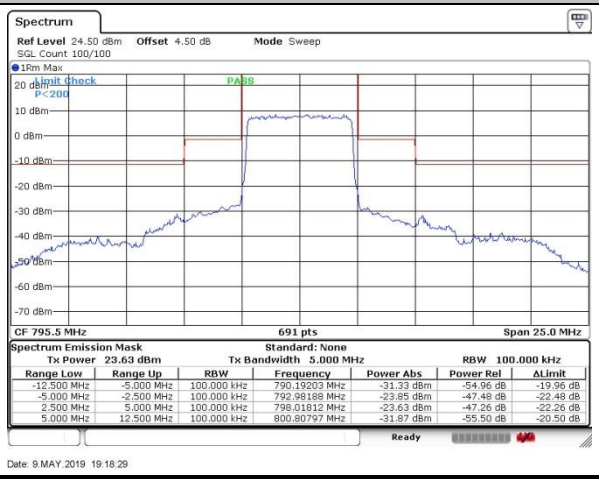
Middle Channel / 5MHz / QPSK



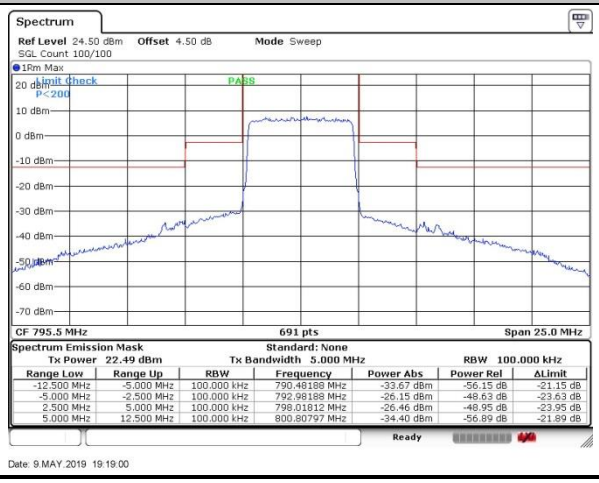
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

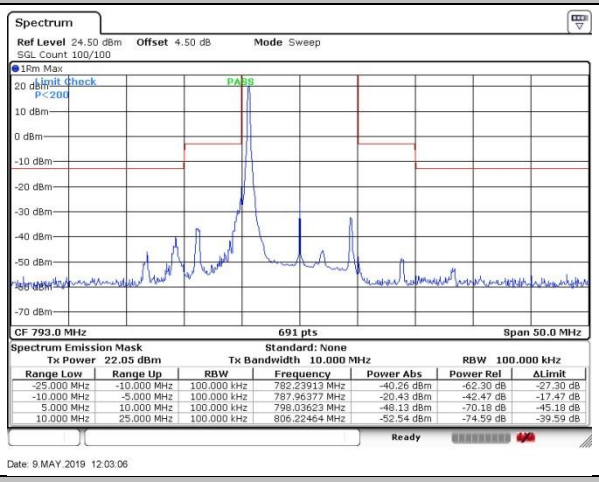


Highest Channel / 5MHz / 16QAM

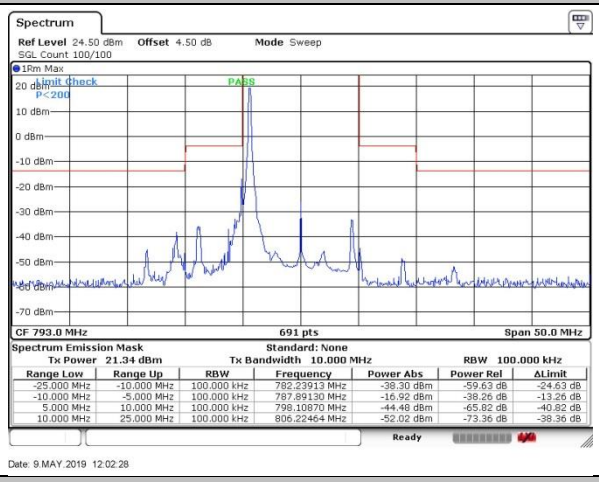


LTE Band 14/ 10MHz

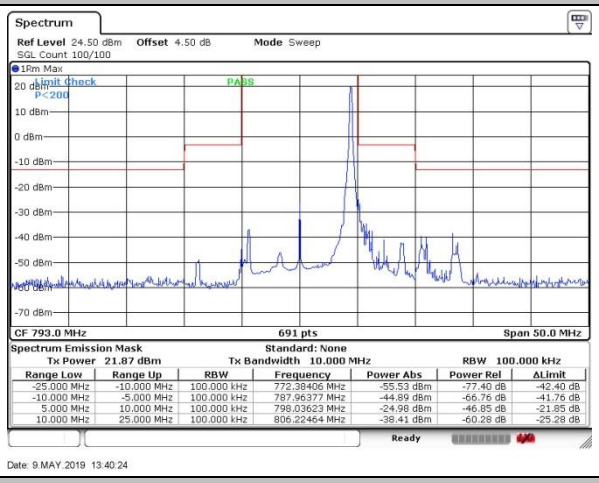
Middle Channel / 1RB0 / QPSK



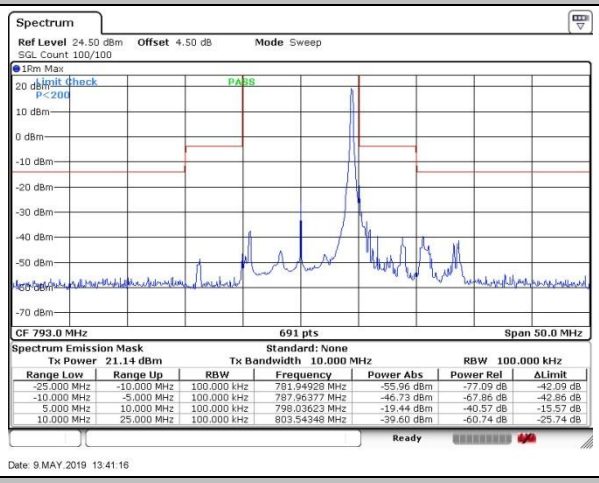
Middle Channel / 1RB0 / 16QAM



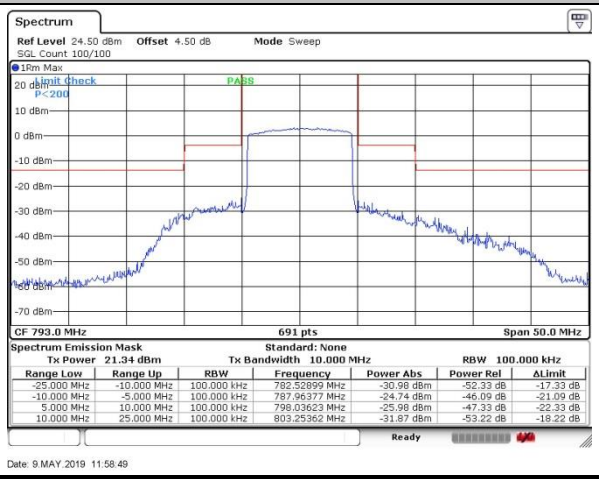
Middle Channel / 1RBmax / QPSK



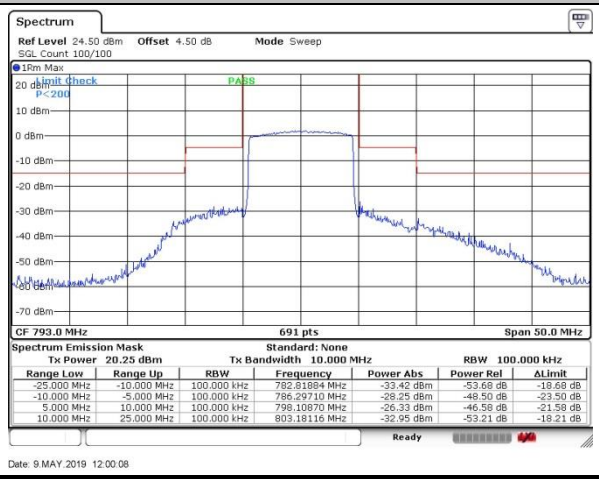
Middle Channel / 1RBmax / 16QAM



Middle Channel / fullRB0 / QPSK

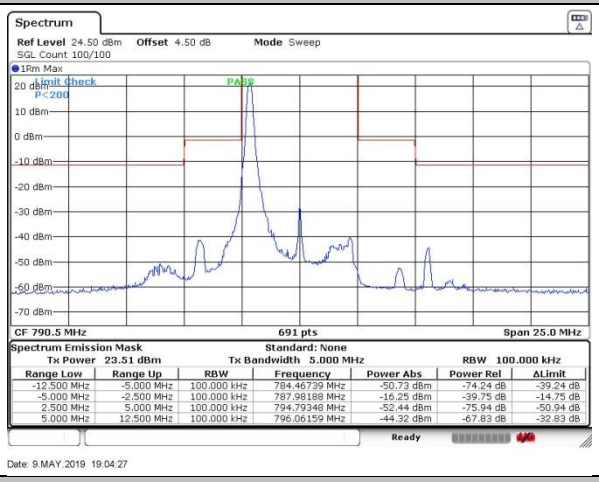


Middle Channel / fullRB0 / 16QAM

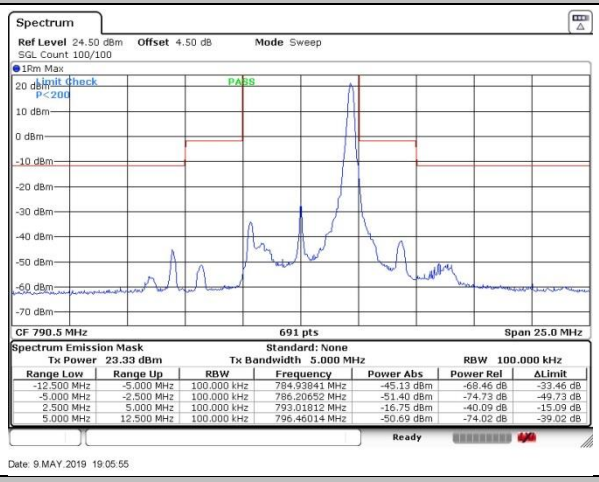


LTE Band 14/ 5M

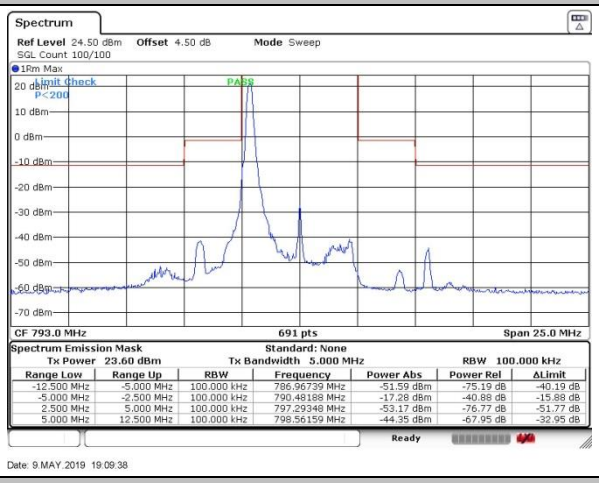
Lowest Channel / 5MHz / 64QAM(1RB0)



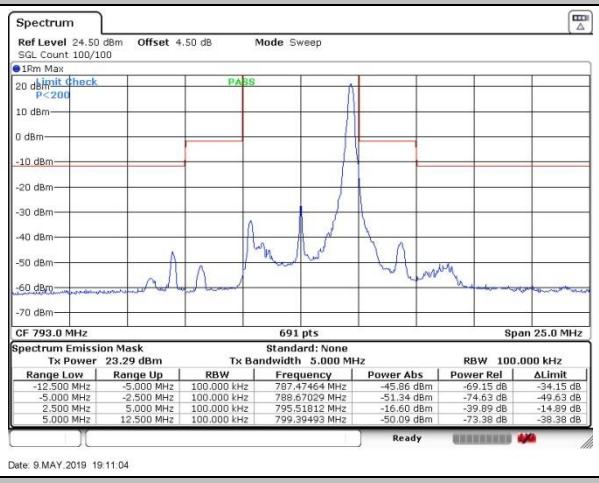
Lowest Channel / 5MHz / 64QAM(1RBMAX)



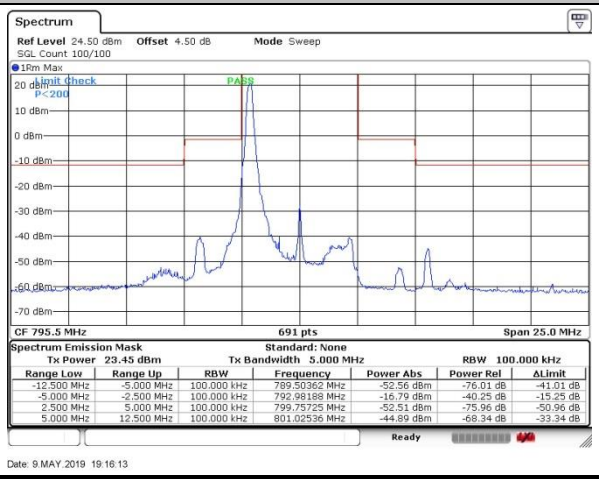
Middle Channel / 5MHz / 64QAM(1RB0)



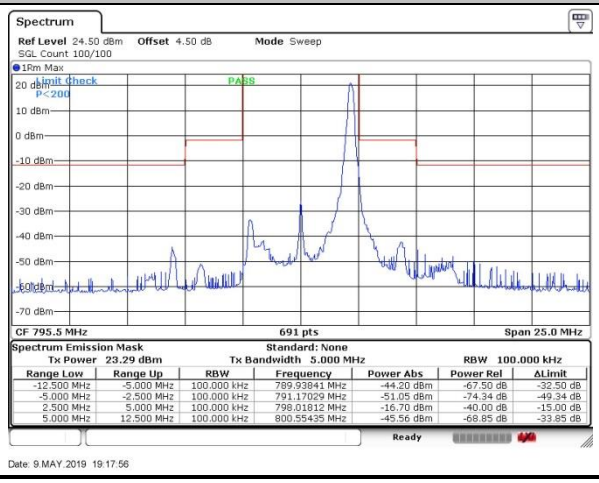
Middle Channel / 5MHz /64QAM(1RBMAX)

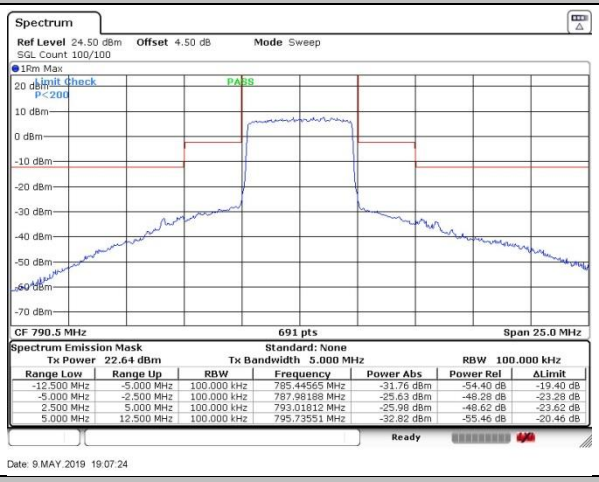
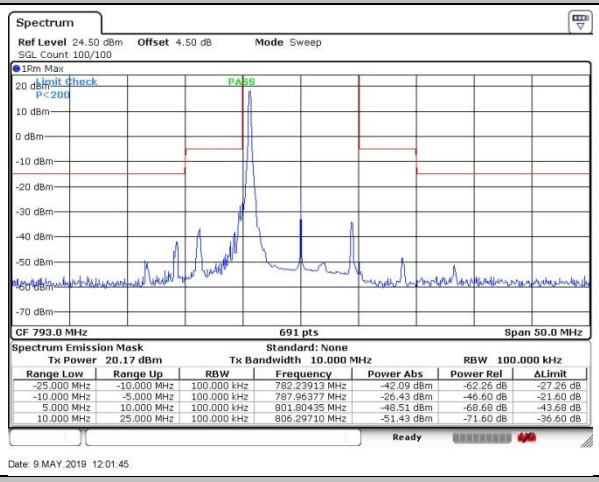
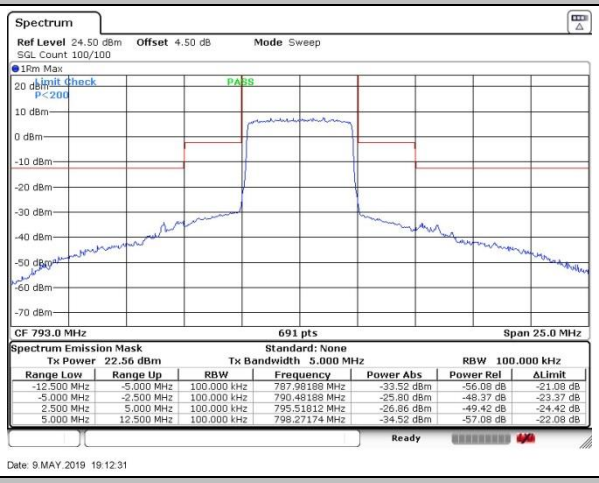
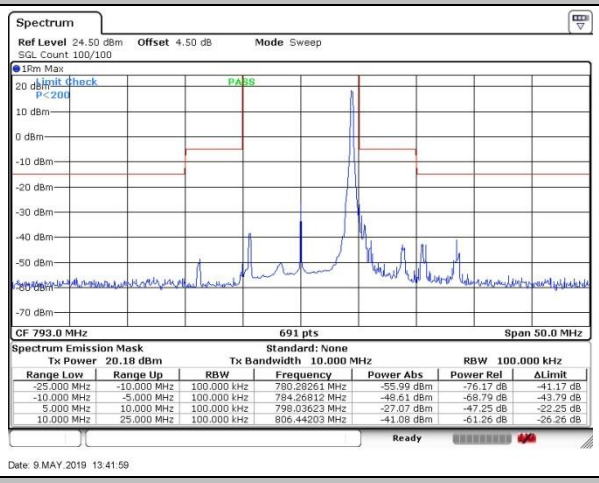
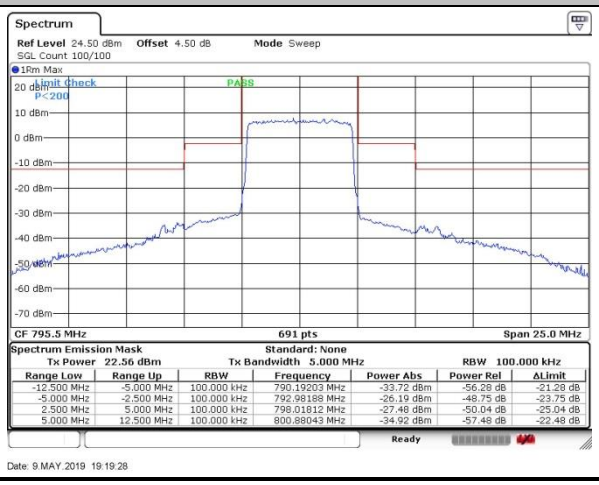
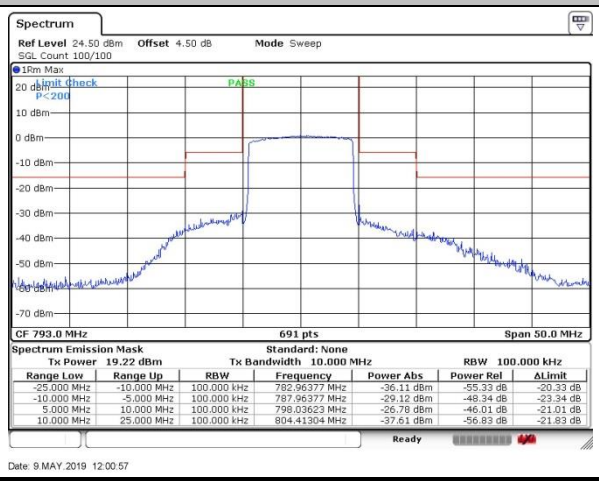


Highest Channel / 5MHz /64QAM(1RB0)



Highest Channel / 5MHz / 64QAM(1RBMAX)

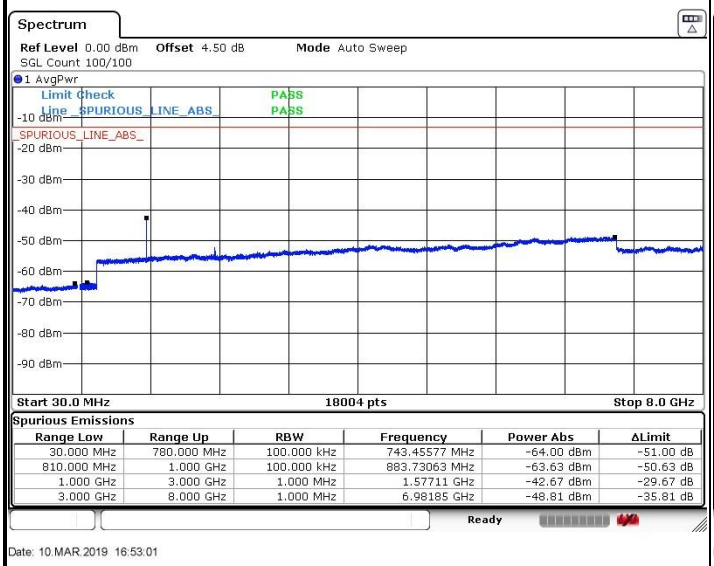


LTE Band 14/ 5M	LTE Band 14/ 10MHz
Lowest Channel / 5MHz / 64QAM(FULLRB0)	**Middle Channel / 1RB0 / 64QAM**
	
Middle Channel / 5MHz / 64QAM(FULLRB0)	**Middle Channel / 1RBmax / 64QAM**
	
Highest Channel / 5MHz /64QAM(FULLRB0)	**Middle Channel / fullRB0 / 64QAM**
	

Conducted Spurious Emission

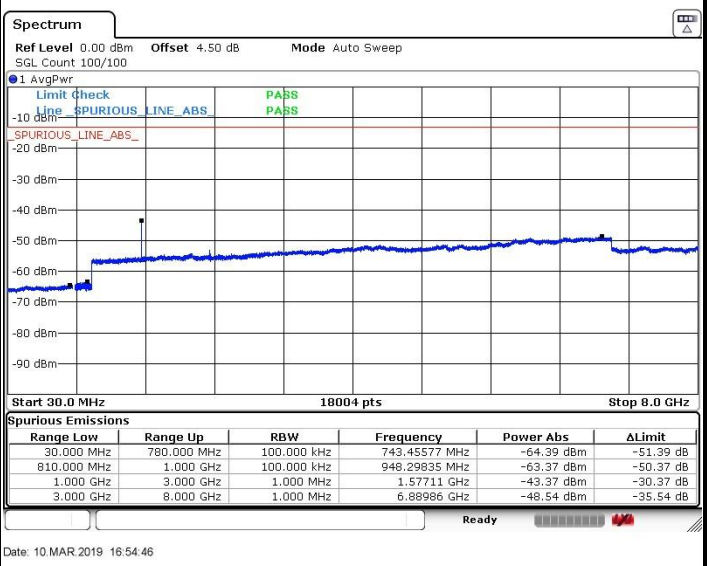
LTE Band 14 / 5MHz

Lowest Channel / QPSK



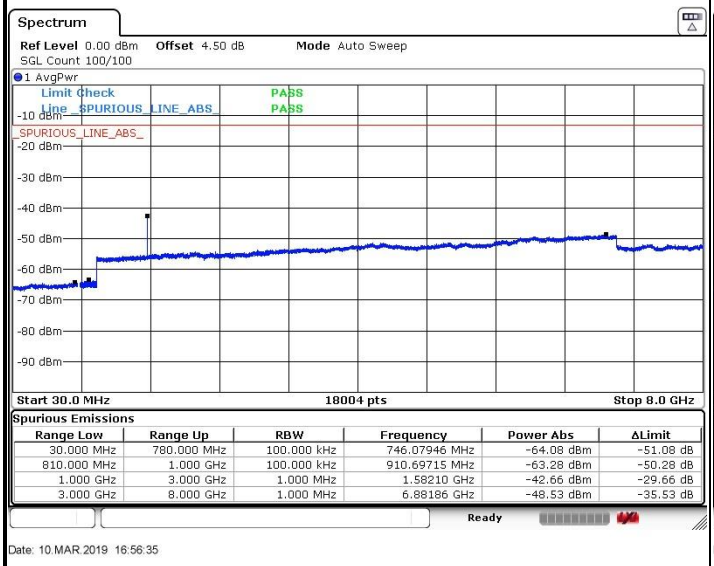
Date: 10.MAR.2019 16:53:01

Lowest Channel / 16QAM



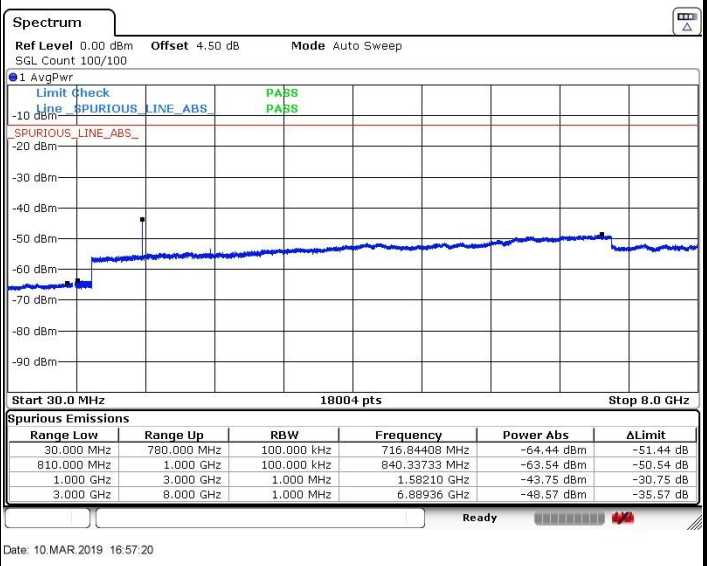
Date: 10.MAR.2019 16:54:46

Middle Channel / QPSK



Date: 10.MAR.2019 16:56:35

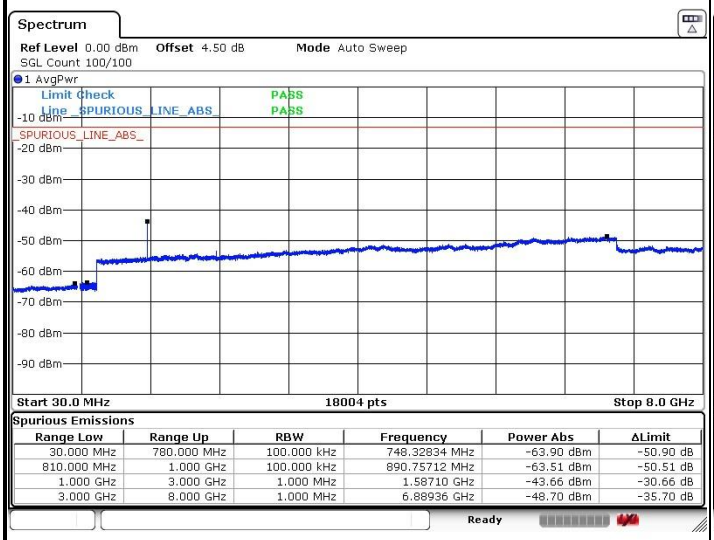
Middle Channel / 16QAM



Date: 10.MAR.2019 16:57:20

LTE Band 14 / 5MHz

Highest Channel / QPSK

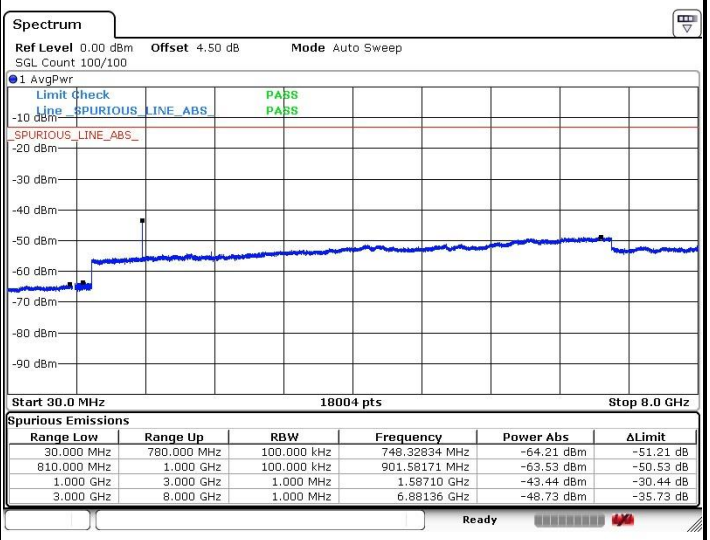


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	780.000 MHz	100.000 kHz	748.32834 MHz	-63.90 dBm	-50.90 dB
810.000 MHz	1.000 GHz	100.000 kHz	890.75712 MHz	-63.51 dBm	-50.51 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58710 GHz	-43.66 dBm	-30.66 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.88936 GHz	-48.70 dBm	-35.70 dB

Date: 10.MAR.2019 16:59:20

Highest Channel / 16QAM



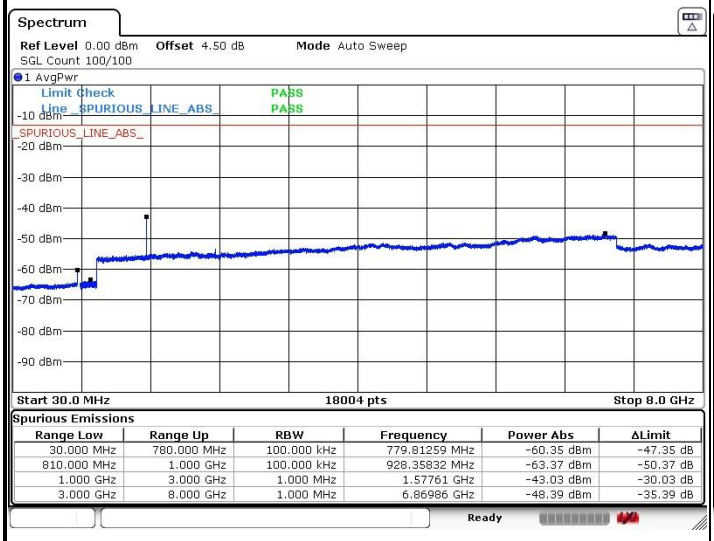
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	780.000 MHz	100.000 kHz	748.32834 MHz	-64.21 dBm	-51.21 dB
810.000 MHz	1.000 GHz	100.000 kHz	901.58171 MHz	-63.53 dBm	-50.53 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58710 GHz	-43.44 dBm	-30.44 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.88136 GHz	-48.73 dBm	-35.73 dB

Date: 10.MAR.2019 17:00:20

LTE Band 14 / 10MHz

Middle Channel / QPSK

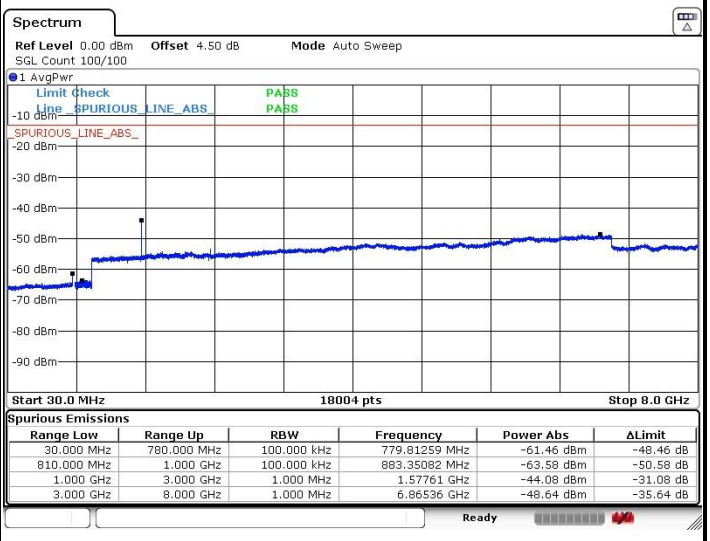


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	780.000 MHz	100.000 kHz	779.81259 MHz	-60.35 dBm	-47.35 dB
810.000 MHz	1.000 GHz	100.000 kHz	928.35832 MHz	-63.37 dBm	-50.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57761 GHz	-43.03 dBm	-30.03 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.86986 GHz	-48.39 dBm	-35.39 dB

Date: 10.MAR.2019 16:47:34

Middle Channel / 16QAM



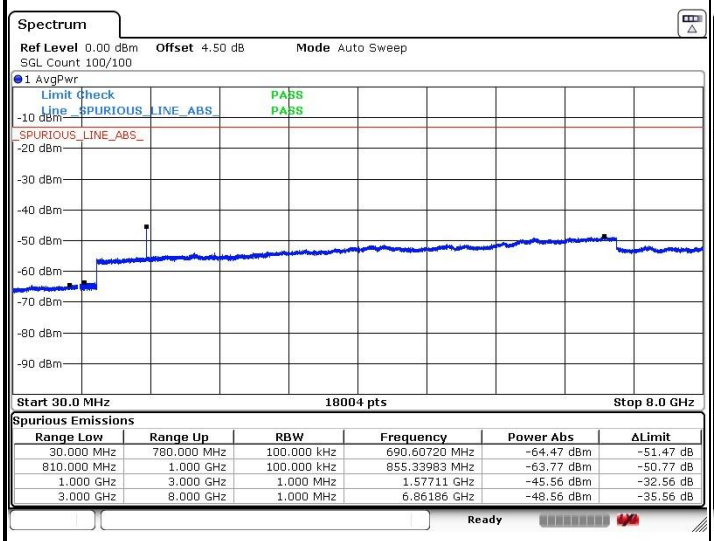
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	780.000 MHz	100.000 kHz	779.81259 MHz	-61.46 dBm	-48.46 dB
810.000 MHz	1.000 GHz	100.000 kHz	883.35082 MHz	-63.58 dBm	-50.58 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57761 GHz	-44.08 dBm	-31.08 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.86536 GHz	-48.64 dBm	-35.64 dB

Date: 10.MAR.2019 16:48:06

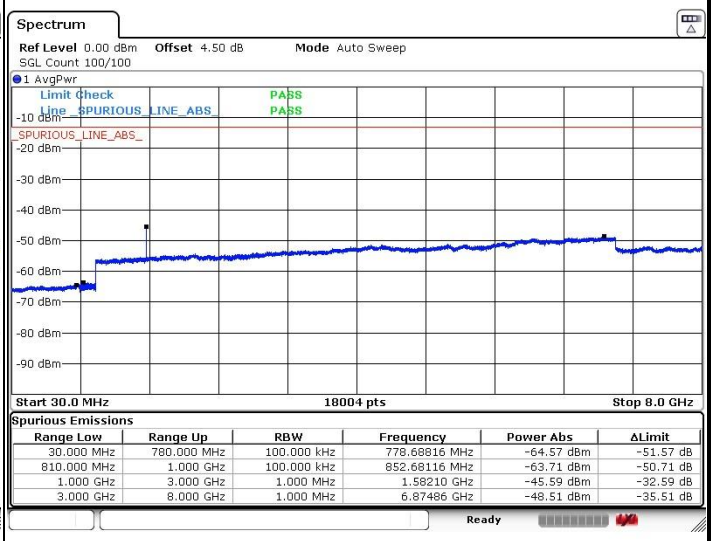
LTE Band 14 / 5MHz

Lowest Channel / 64QAM



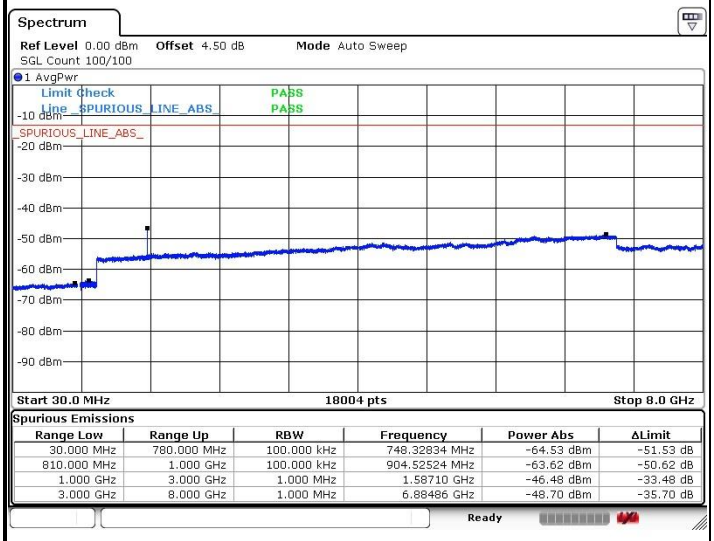
Date: 10.MAR.2019 16:55:28

Middle Channel / 64QAM



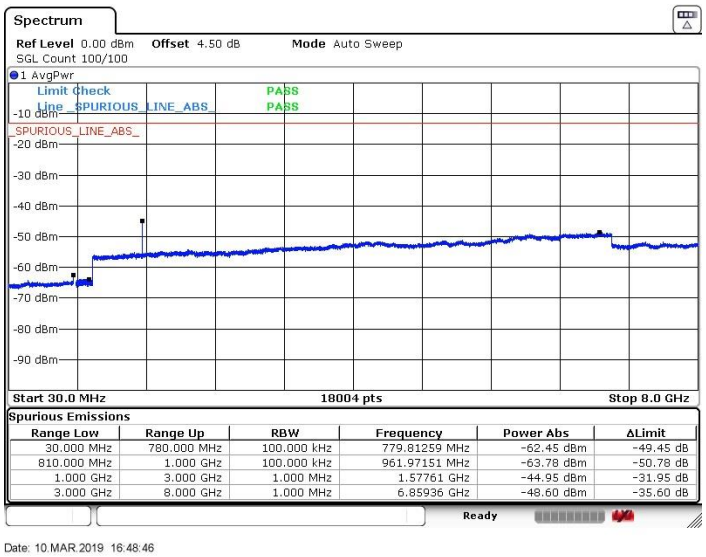
Date: 10.MAR.2019 16:57:52

Highest Channel / 64QAM



Date: 10.MAR.2019 17:01:06

LTE Band 14 / 10MHz
Middle Channel / 64QAM



Frequency Stability

Test Conditions		LTE Band 14 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	1.25ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0013	

Note: Normal Voltage =3.8V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.1 V.

Appendix B. Test Results of Radiated Test

Field Strength of Spurious Radiated

LTE Band 14 / QPSK / RB Size 1 Offset 0								
Bandwidth	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
5MHz (Lowest)	1576	-68.47	-42.15	-26.32	-70.18	2.23	6.09	H
	2366	-66.18	-13	-53.18	-68.86	2.83	5.51	H
	3156	-65.29	-13	-52.29	-69.38	3.21	7.30	H
	1576	-68.56	-42.15	-26.41	-70.27	2.23	6.09	V
	2366	-66.80	-13	-53.80	-69.48	2.83	5.51	V
	3156	-65.65	-13	-52.65	-69.74	3.21	7.30	V
5MHz (Middle)	1582	-68.35	-42.15	-26.20	-70.06	2.23	6.09	H
	2372	-66.29	-13	-53.29	-68.97	2.83	5.51	H
	3162	-65.78	-13	-52.78	-69.87	3.21	7.30	H
	1582	-68.52	-42.15	-26.37	-70.23	2.23	6.09	V
	2372	-66.70	-13	-53.70	-69.38	2.83	5.51	V
	3162	-65.88	-13	-52.88	-69.97	3.21	7.30	V
5MHz (Highest)	1586	-68.79	-42.15	-26.64	-70.50	2.23	6.09	H
	2380	-66.18	-13	-53.18	-68.86	2.83	5.51	H
	3174	-65.41	-13	-52.41	-69.50	3.21	7.30	H
	1586	-68.34	-42.15	-26.19	-70.05	2.23	6.09	V
	2380	-66.36	-13	-53.36	-69.04	2.83	5.51	V
	3174	-65.72	-13	-52.72	-69.81	3.21	7.30	V
10MHz	1578	-68.16	-42.15	-26.01	-69.87	2.23	6.09	H
	2366	-66.06	-13	-53.06	-68.74	2.83	5.51	H
	3156	-65.32	-13	-52.32	-69.41	3.21	7.30	H
	1578	-68.35	-42.15	-26.20	-70.06	2.23	6.09	V
	2366	-66.34	-13	-53.34	-69.02	2.83	5.51	V
	3156	-65.36	-13	-52.36	-69.45	3.21	7.30	V
	Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.							
Test Result	PASS							