



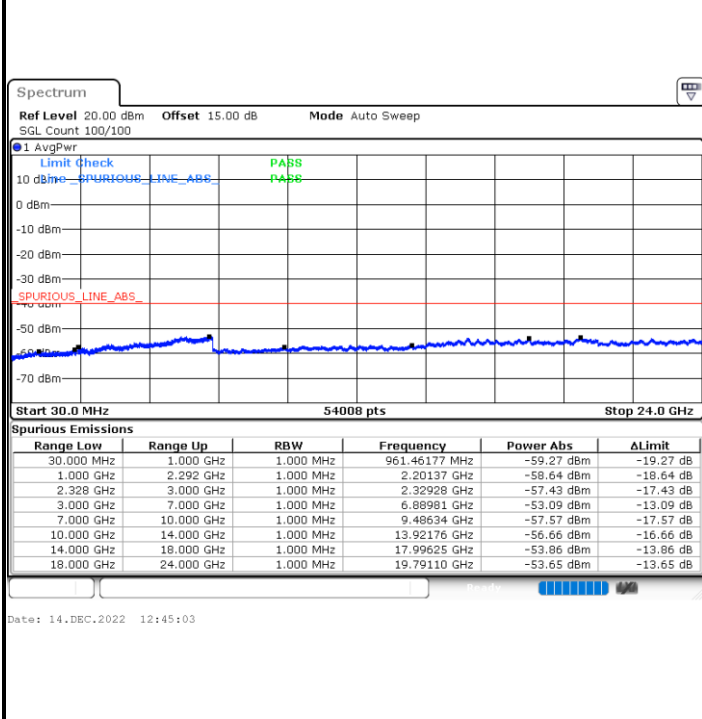
# Conducted Spurious Emission



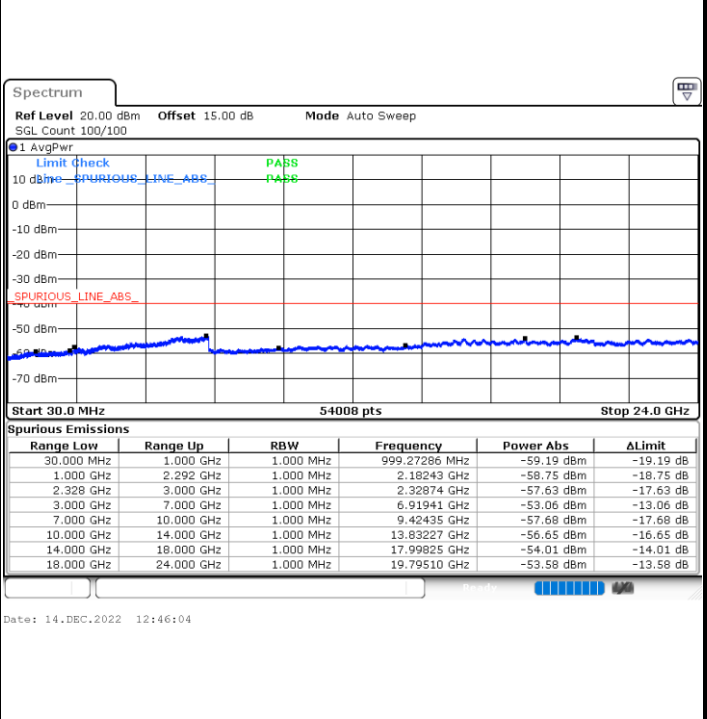


LTE Band 30 / 5MHz

Highest Channel / QPSK

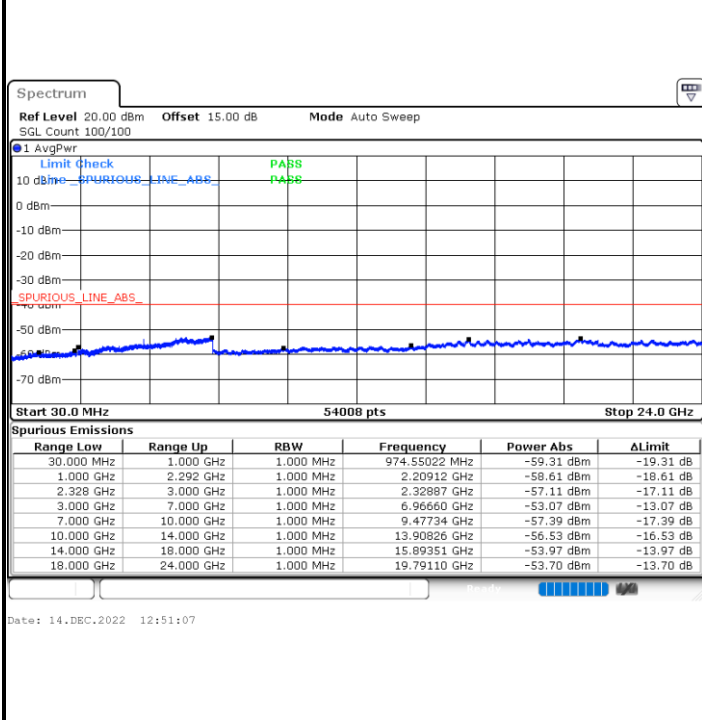


Highest Channel / 16QAM

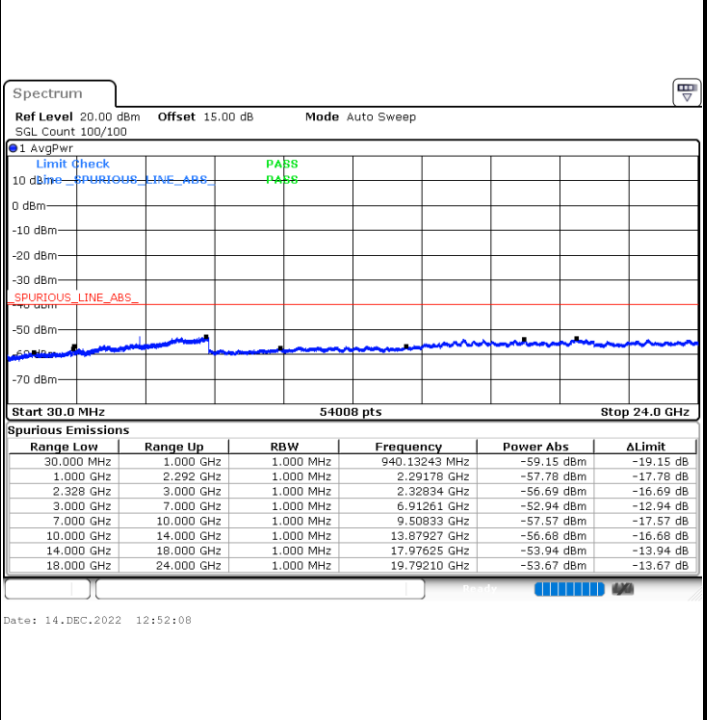


LTE Band 30 / 10MHz

Middle Channel / QPSK



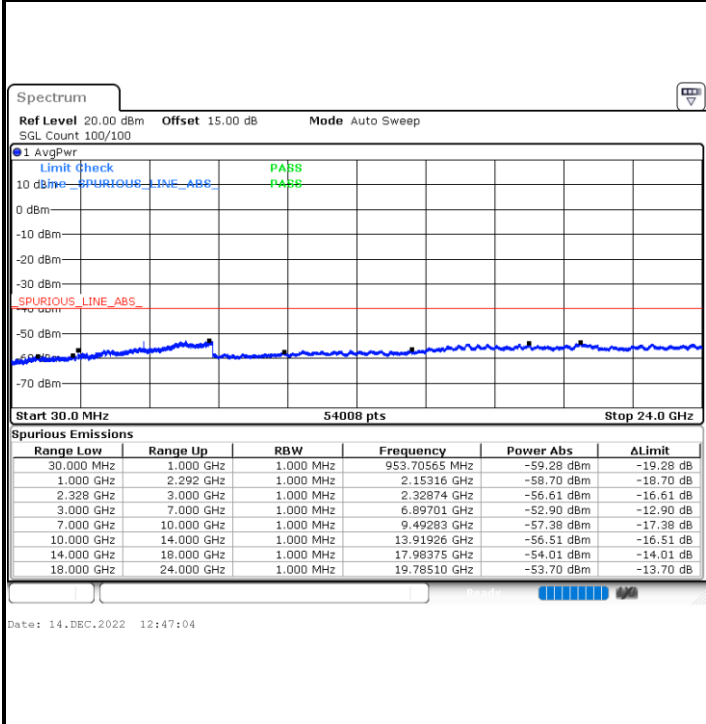
Middle Channel / 16QAM



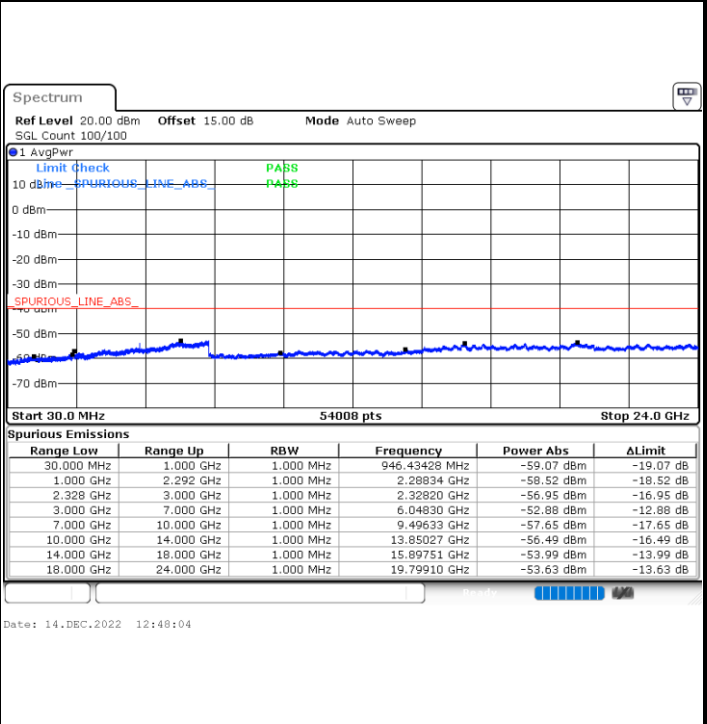


**LTE Band 30 / 5MHz**

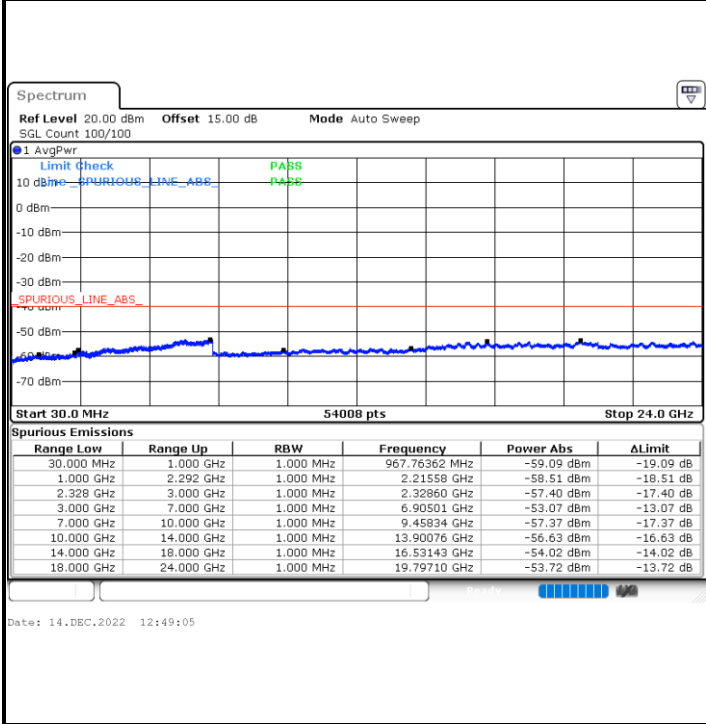
**Lowest Channel / 64QAM**

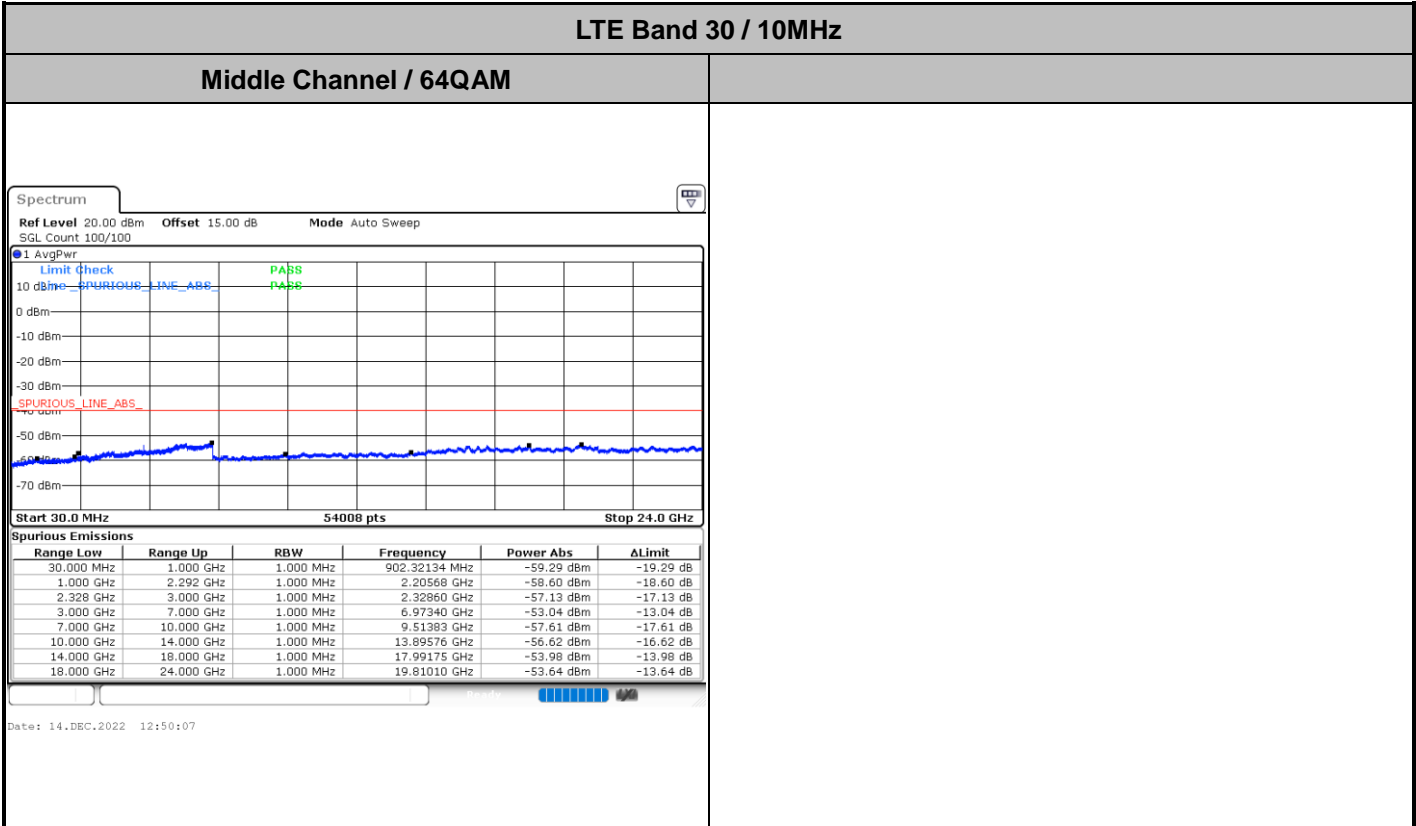


**Middle Channel / 64QAM**



**Highest Channel / 64QAM**





## Frequency Stability

Test Conditions		LTE Band 30 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

**Note:**

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

Test Engineer :	Liang Ping Zhou	Temperature :	22~25°C
		Relative Humidity :	48~52%

LTE Band 30 / 5MHz / QPSK / RB Size 1 Offset 0 ANT7									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4610.50	-60.19	-40	-20.19	-57.13	-66.44	6.30	12.55	H
	6915.75	-47.16	-40	-7.16	-47.08	-50.56	8.25	11.65	H
	9221.00	-54.62	-40	-14.62	-63.41	-56.97	9.50	11.85	H
	4610.50	-60.50	-40	-20.50	-57.29	-66.75	6.30	12.55	V
	6915.75	-47.64	-40	-7.64	-47.53	-51.04	8.25	11.65	V
	9221.00	-55.10	-40	-15.10	-63.47	-57.45	9.50	11.85	V
Middle	4615.50	-59.64	-40	-19.64	-56.61	-65.89	6.45	12.70	H
	6923.25	-47.07	-40	-7.07	-47.03	-50.47	8.40	11.80	H
	9231.00	-55.38	-40	-15.38	-64.18	-57.73	9.65	12.00	H
	4615.50	-60.63	-40	-20.63	-57.46	-66.88	6.45	12.70	V
	6923.25	-47.08	-40	-7.08	-47.02	-50.48	8.40	11.80	V
	9231.00	-55.86	-40	-15.86	-64.25	-58.21	9.65	12.00	V
Highest	4620.50	-59.47	-40	-19.47	-56.44	-65.72	6.61	12.86	H
	6930.75	-49.13	-40	-9.13	-49.10	-52.51	8.56	11.94	H
	9241.00	-55.49	-40	-15.49	-64.28	-57.84	9.81	12.16	H
	4620.50	-58.66	-40	-18.66	-55.5	-64.91	6.61	12.86	V
	6930.75	-48.70	-40	-8.70	-48.68	-52.08	8.56	11.94	V
	9241.00	-56.17	-40	-16.17	-64.56	-58.52	9.81	12.16	V

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

LTE Band 30 / 10MHz / QPSK / RB Size 1 Offset 0 ANT7									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	4611.50	-61.83	-40	-21.83	-58.77	-68.08	6.45	12.70	H
	6916.50	-50.69	-40	-10.69	-50.62	-54.09	8.40	11.80	H
	9222.00	-55.04	-40	-15.04	-63.83	-57.39	9.65	12.00	H
	4611.50	-62.05	-40	-22.05	-58.84	-68.30	6.45	12.70	V
	6916.50	-50.42	-40	-10.42	-50.31	-53.82	8.40	11.80	V
	9222.00	-55.56	-40	-15.56	-63.93	-57.91	9.65	12.00	V

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