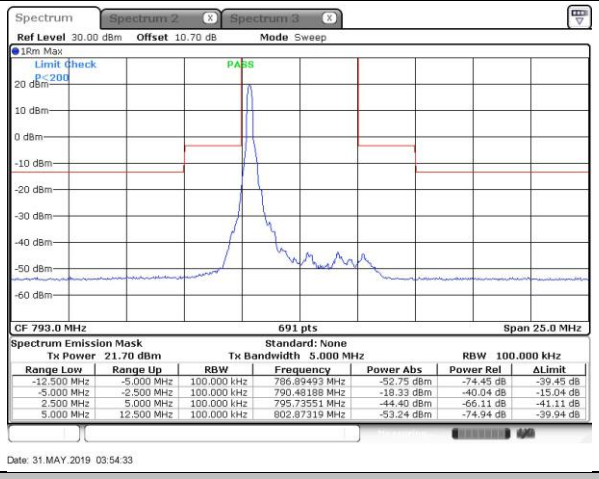
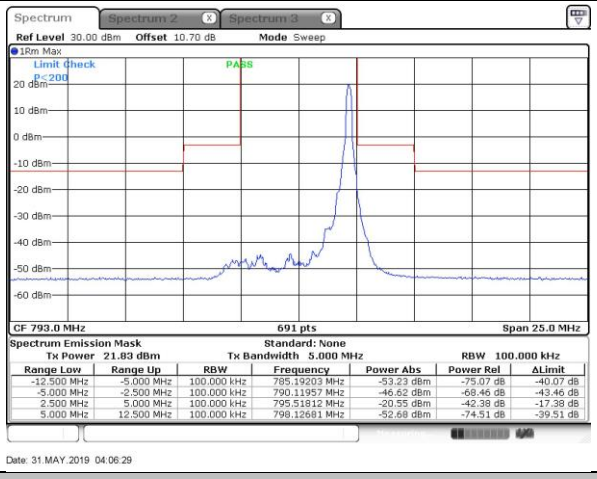
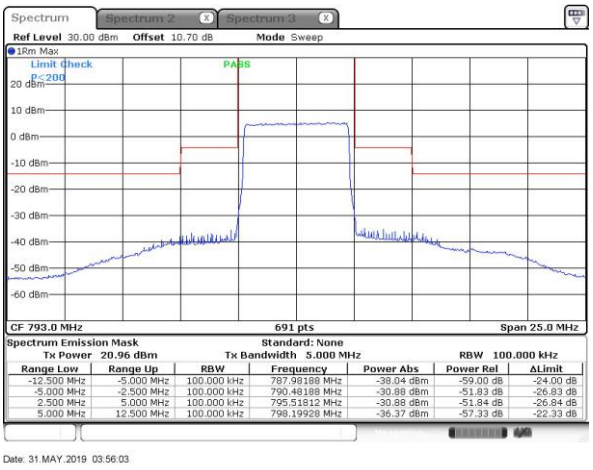
LTE Band 14 / 5MHz / 16QAM

Middle Channel / 1RB



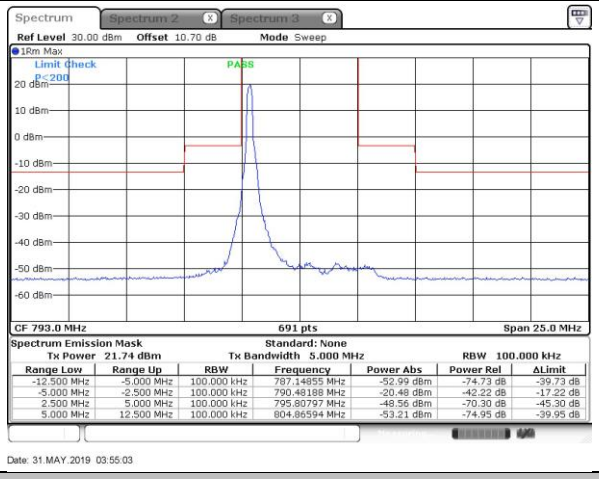


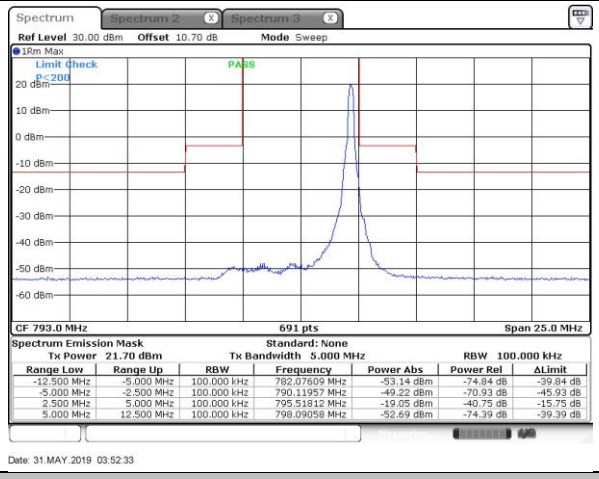
Middle Channel / Full RB



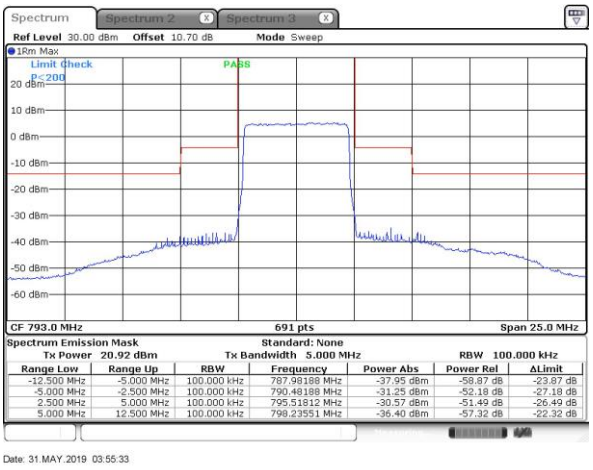
LTE Band 14 / 5MHz / 64QAM

Middle Channel / 1RB



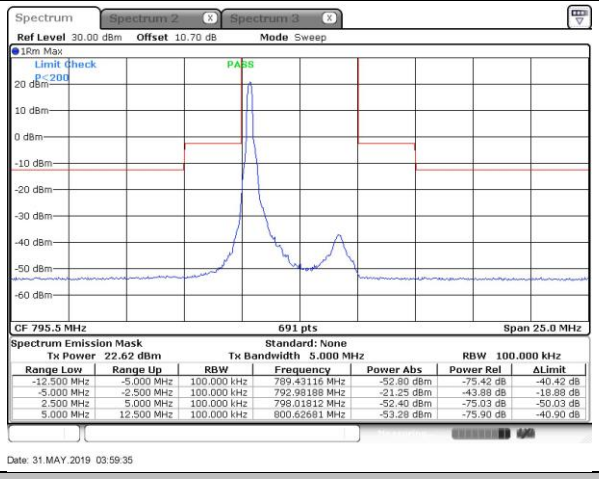


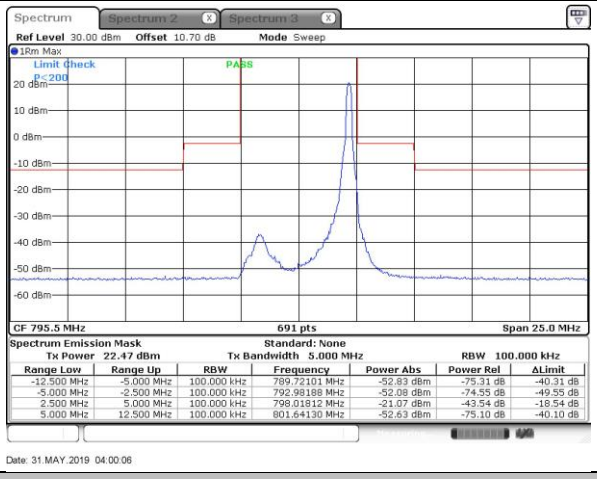
Middle Channel / Full RB



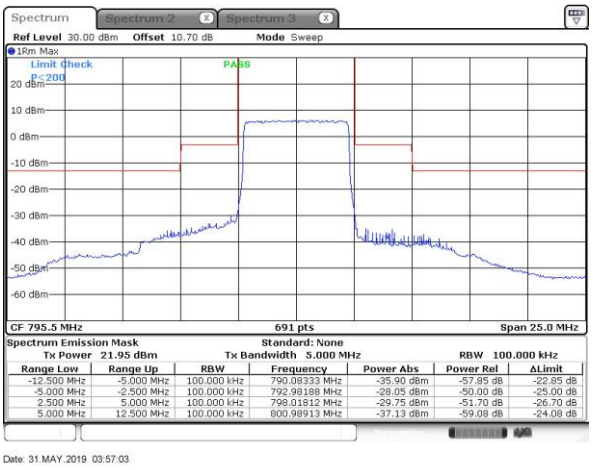
LTE Band 14 / 5MHz / QPSK

Highest Channel / 1RB



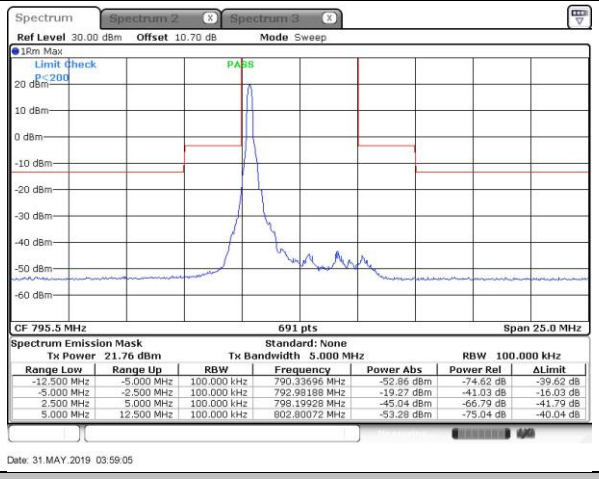


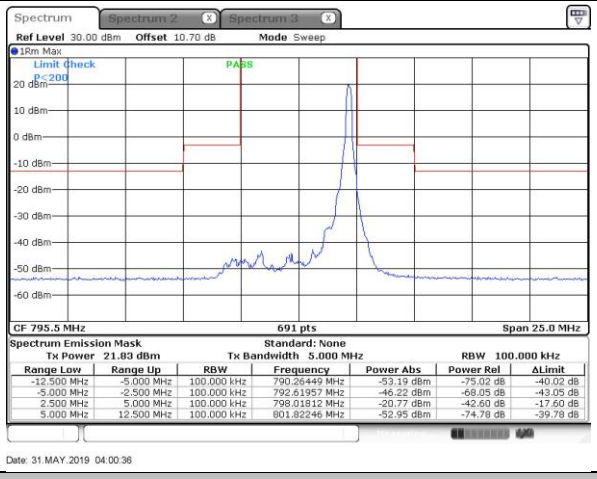
Highest Channel / Full RB



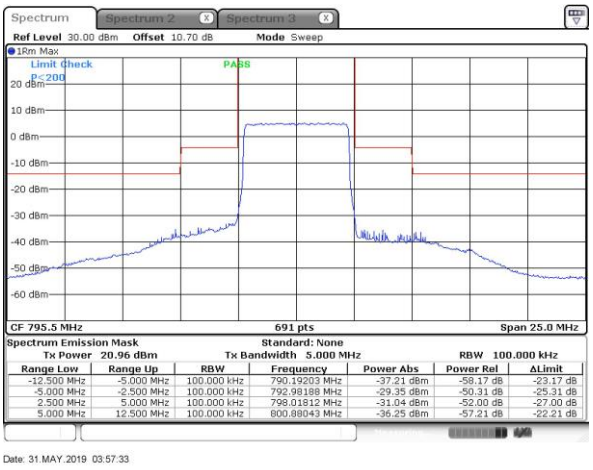
LTE Band 14 / 5MHz / 16QAM

Highest Channel / 1RB



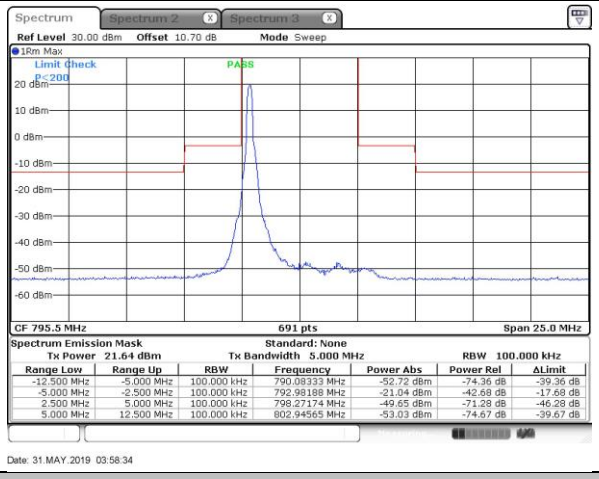


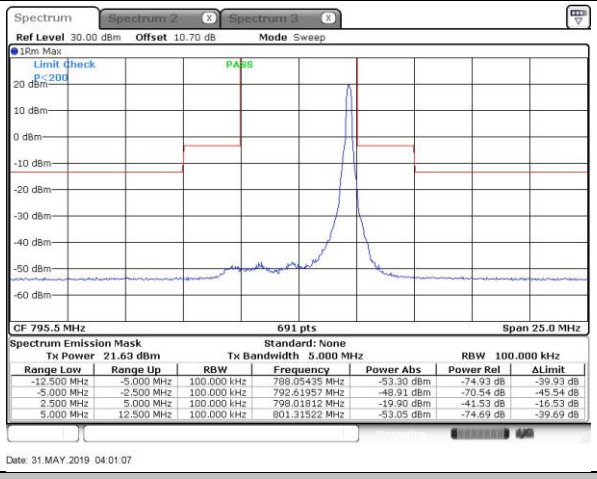
Highest Channel / Full RB



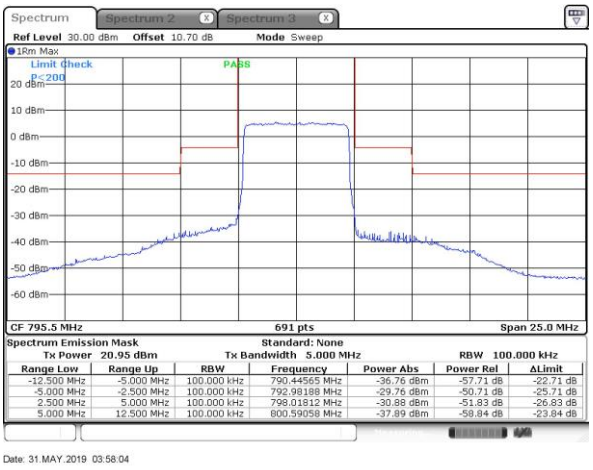
LTE Band 14 / 5MHz / 64QAM

Highest Channel / 1RB



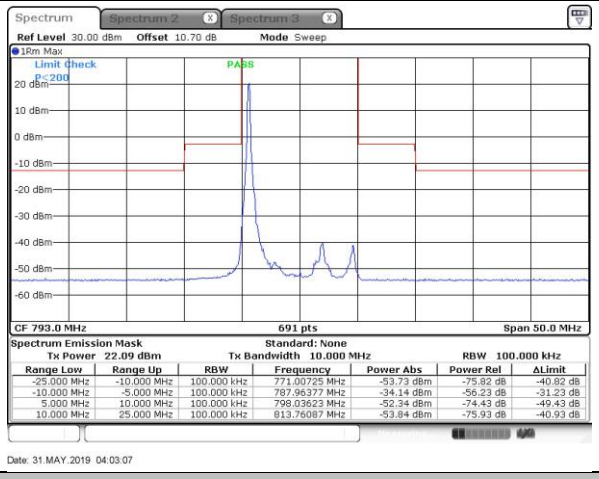


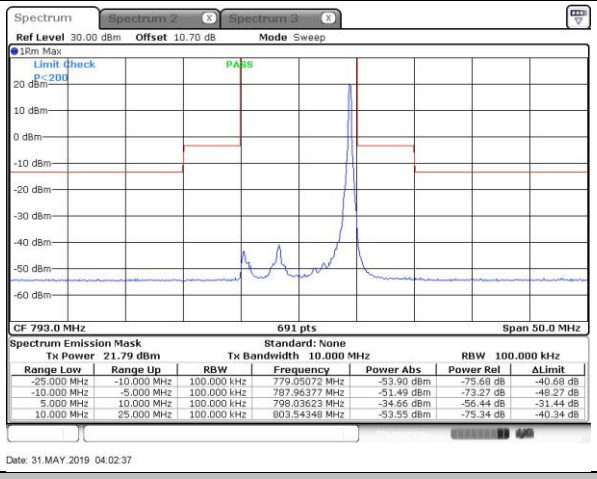
Highest Channel / Full RB



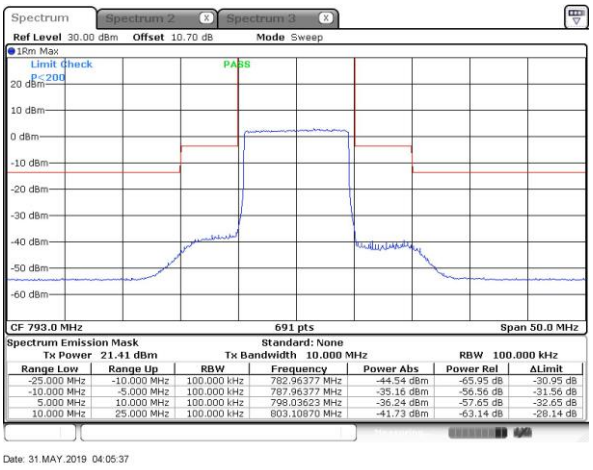
LTE Band 14 / 10MHz / QPSK

Middle Channel / 1RB



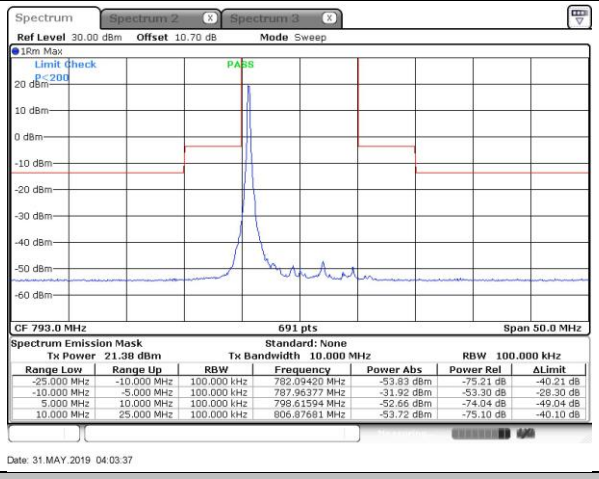


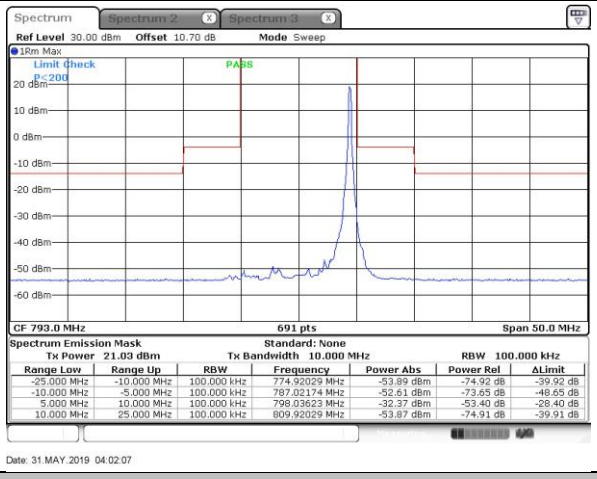
Middle Channel / Full RB



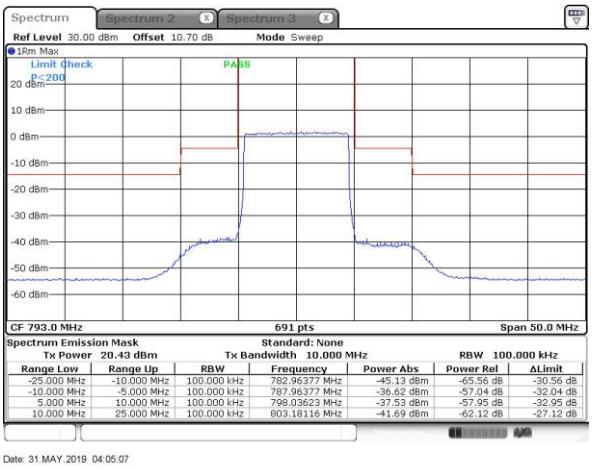
LTE Band 14 / 10MHz / 16QAM

Middle Channel / 1RB



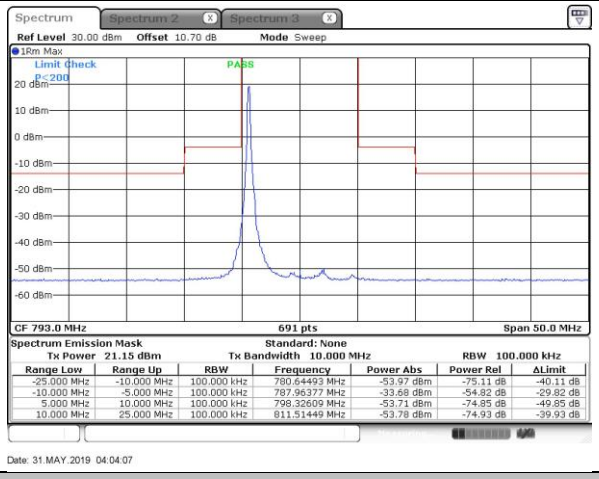


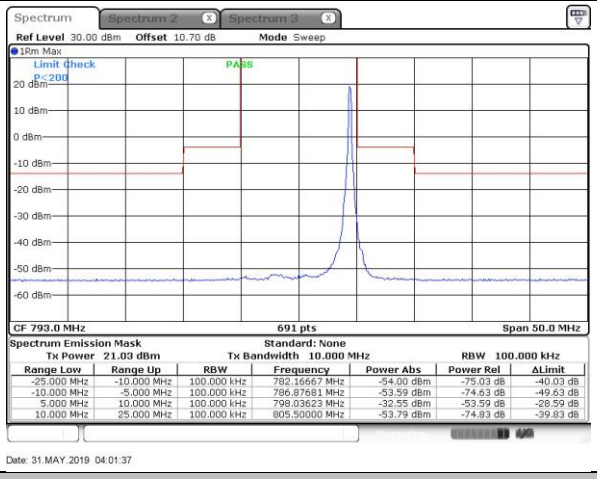
Middle Channel / Full RB



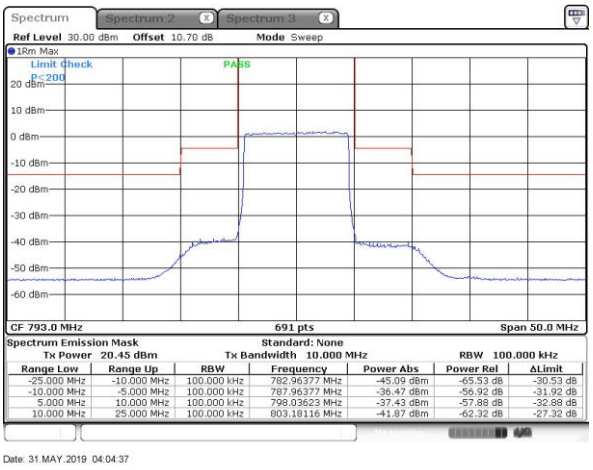
LTE Band 14 / 10MHz / 64QAM

Middle Channel / 1RB





Middle Channel / Full RB



Frequency Stability

Test Conditions		LTE Band 14 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0038	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0038	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0083	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0079	

Note:

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.2 V.

2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of ERP/EIRP and Radiated Test

ERP

LTE Band 14 / 5MHz (Average) (GT - LC = 1.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	EIRP(dBm)	EIRP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.03	0.2009	22.68	0.1854
Middle		1	12	23.10	0.2042	22.75	0.1884
Highest		1	12	22.98	0.1986	22.63	0.1832
Lowest	16QAM	1	12	22.37	0.1726	22.02	0.1592
Middle		1	12	22.43	0.1750	22.08	0.1614
Highest		1	12	22.29	0.1694	21.94	0.1563
Lowest	64QAM	1	12	21.32	0.1355	20.97	0.1250
Middle		1	12	21.38	0.1374	21.03	0.1268
Highest		1	12	21.26	0.1337	20.91	0.1233
Limit	ERP < 3W			Result		PASS	

LTE Band 14 / 10MHz (Average) (GT - LC = 1.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	EIRP(dBm)	EIRP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	23.12	0.2051	22.77	0.1892
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	0	22.40	0.1738	22.05	0.1603
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	0	21.36	0.1368	21.01	0.1262
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	

Radiated Spurious Emission

LTE Band 14

LTE Band 14 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (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	1578	-60.22	-42.15	-18.07	-70.29	-65.57	0.90	8.40	H
	3160	-47.18	-13	-34.18	-63.04	-55.42	1.30	11.68	H
	3952	-42.69	-13	-29.69	-61.22	-51.83	1.48	12.77	H
	1578	-60.52	-42.15	-18.37	-70.12	-65.87	0.90	8.40	V
	3160	-51.24	-13	-38.24	-67.54	-59.48	1.30	11.68	V
	3952	-49.99	-13	-36.99	-68.48	-59.13	1.48	12.77	V
Middle	1580	-60.66	-42.15	-18.51	-70.73	-66.02	0.90	8.40	H
	2376	-55.17	-13	-42.17	-69.06	-62.42	1.12	10.53	H
	3160	-47.13	-13	-34.13	-62.99	-55.37	1.30	11.68	H
	3952	-43.34	-13	-30.34	-61.87	-52.48	1.48	12.77	H
	1580	-60.20	-42.15	-18.05	-69.80	-65.56	0.90	8.40	V
	2376	-55.59	-13	-42.59	-69.93	-62.84	1.12	10.53	V
	3160	-52.18	-13	-39.18	-68.48	-60.42	1.30	11.68	V
	3952	-50.20	-13	-37.20	-69.69	-59.34	1.48	12.77	V
Highest	1592	-60.86	-42.15	-18.71	-70.79	-66.26	0.90	8.45	H
	2384	-55.45	-13	-42.45	-69.93	-62.71	1.12	10.54	H
	3184	-48.13	-13	-35.13	-64.01	-56.42	1.30	11.74	H
	3976	-38.59	-13	-25.59	-57.17	-47.74	1.48	12.79	H
	1592	-60.82	-42.15	-18.67	-70.40	-66.22	0.90	8.45	V
	2384	-56.42	-13	-43.42	-70.75	-63.68	1.12	10.54	V
	3184	-53.06	-13	-40.06	-69.41	-61.35	1.30	11.74	V
	3976	-44.92	-13	-31.92	-63.43	-54.07	1.48	12.79	V

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

LTE Band 14 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (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	1576	-59.47	-42.15	-17.32	-69.54	-64.81	0.90	8.39	H
	2368	-54.53	-13	-41.53	-69.14	-61.77	1.12	10.52	H
	3152	-47.78	-13	-34.78	-63.64	-56.00	1.30	11.66	H
	3944	-44.99	-13	-31.99	-63.46	-54.13	1.48	12.77	H
	1576	-60.58	-42.15	-18.43	-70.18	-65.92	0.90	8.39	V
	2368	-55.28	-13	-42.28	-69.63	-62.52	1.12	10.52	V
	3152	-51.88	-13	-38.88	-68.18	-60.10	1.30	11.66	V
	3944	-51.20	-13	-38.20	-69.68	-60.34	1.48	12.77	V

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