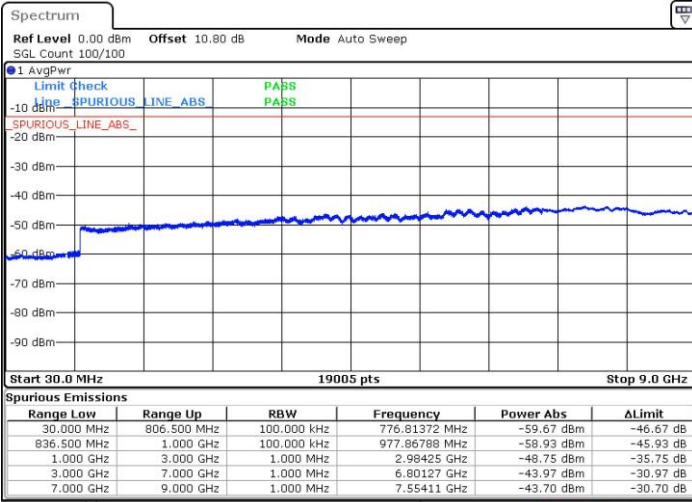




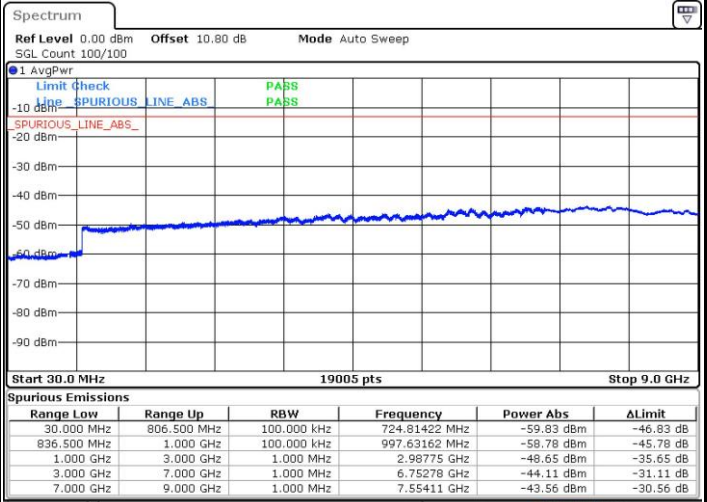
LTE Band 26 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

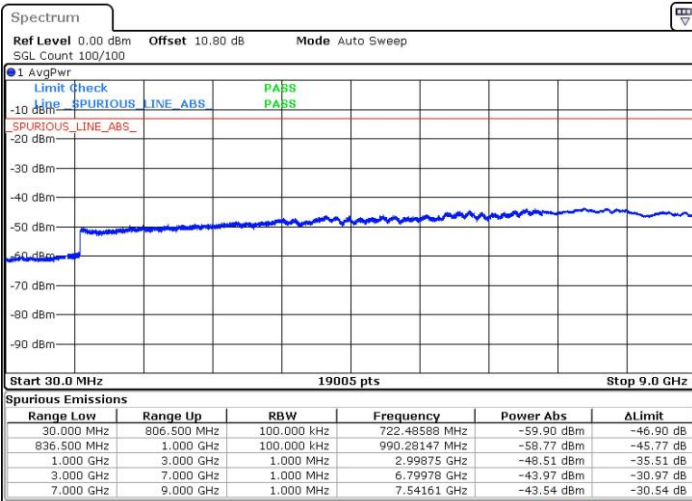


Date: 15.FEB.2019 15:44:09



Date: 15.FEB.2019 15:45:13

Highest Channel / 64QAM



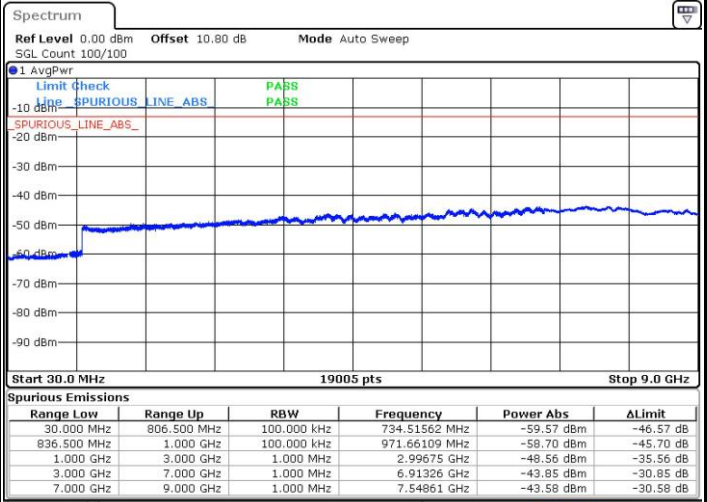
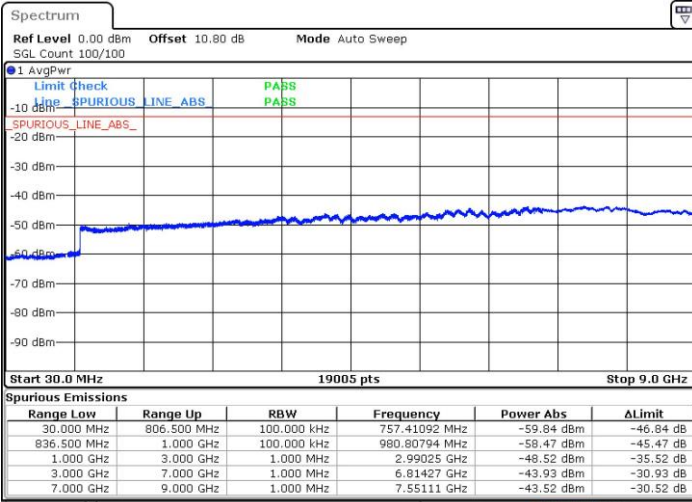
Date: 15.FEB.2019 15:46:17



LTE Band 26 / 5MHz

Lowest Channel / 64QAM

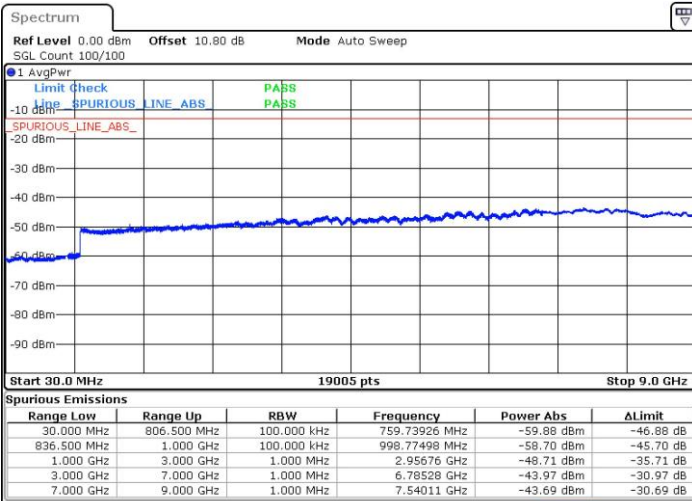
Middle Channel / 64QAM



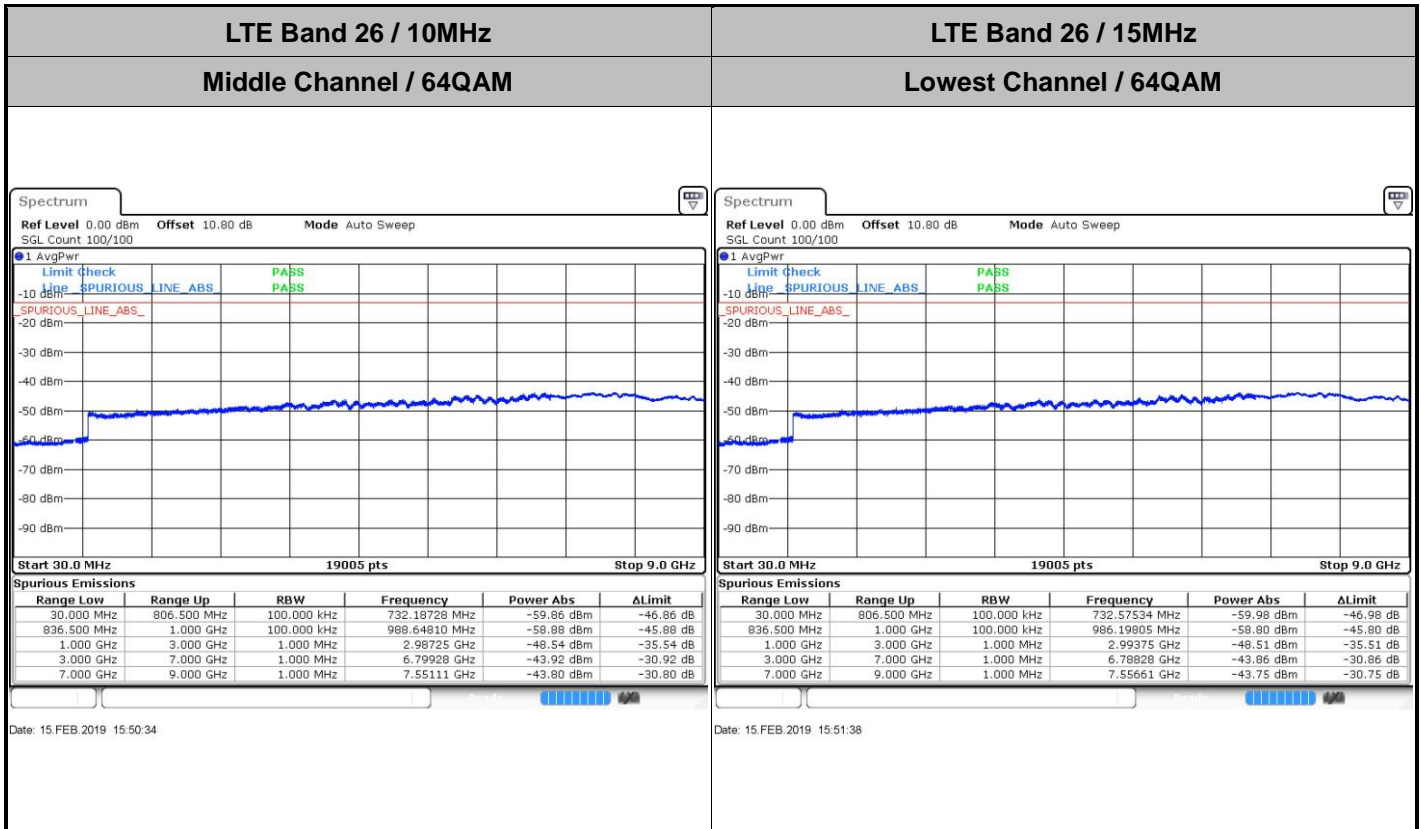
Date: 15.FEB.2019 15:47:21

Date: 15.FEB.2019 15:48:25

Highest Channel / 64QAM



Date: 15.FEB.2019 15:49:30





Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0099	PASS
40	Normal Voltage	0.0092	
30	Normal Voltage	0.0067	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0067	
-10	Normal Voltage	0.0074	
-20	Normal Voltage	0.0089	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0081	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0093	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0056	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0066	
0	Normal Voltage	0.0084	
-10	Normal Voltage	0.0063	
-20	Normal Voltage	0.0073	
-30	Normal Voltage	0.0077	
20	Maximum Voltage	0.0071	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0071	

Note:

- 1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.25 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of ERP and Radiated Test

ERP

LTE Band 26 / 1.4MHz (GT - LC = -2.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	0	23.70	0.2344	18.65	0.0733
Middle		3	0	23.68	0.2333	18.63	0.0729
Highest		3	0	23.92	0.2466	18.87	0.0771
Lowest	16QAM	1	3	22.53	0.1791	17.48	0.0560
Middle		1	3	22.50	0.1778	17.45	0.0556
Highest		1	3	22.75	0.1884	17.70	0.0589
Lowest	64QAM	3	0	21.49	0.1409	16.44	0.0441
Middle		3	0	21.35	0.1365	16.30	0.0427
Highest		3	0	21.66	0.1466	16.61	0.0458
Limit	ERP < 100W			Result		PASS	

LTE Band 26 / 3MHz (GT - LC = -2.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	23.93	0.2472	18.88	0.0773
Middle		1	8	23.94	0.2477	18.89	0.0774
Highest		1	8	23.97	0.2495	18.92	0.0780
Lowest	16QAM	1	8	22.54	0.1795	17.49	0.0561
Middle		1	8	22.57	0.1807	17.52	0.0565
Highest		1	8	22.76	0.1888	17.71	0.0590
Lowest	16QAM	1	8	21.64	0.1459	16.59	0.0456
Middle		1	8	21.62	0.1452	16.57	0.0454
Highest		1	8	21.86	0.1535	16.81	0.0480
Limit	ERP < 100W			Result		PASS	

LTE Band 26 / 5MHz (GT - LC = -2.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	23.76	0.2377	18.71	0.0743
Middle		1	24	23.77	0.2382	18.72	0.0745
Highest		1	24	23.96	0.2489	18.91	0.0778
Lowest	16QAM	1	24	22.57	0.1807	17.52	0.0565
Middle		1	24	22.50	0.1778	17.45	0.0556
Highest		1	24	22.69	0.1858	17.64	0.0581
Lowest	16QAM	1	12	21.55	0.1429	16.50	0.0447
Middle		1	12	21.60	0.1445	16.55	0.0452
Highest		1	12	21.72	0.1486	16.67	0.0465
Limit	ERP < 100W			Result		PASS	



LTE Band 26 / 10MHz (Channel 26740) (GT - LC = -2.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	23.92	0.2466	18.87	0.0771
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	0	22.76	0.1888	17.71	0.0590
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	0	21.67	0.1469	16.62	0.0459
Highest		-	-	-	-	-	-
Limit	ERP < 100W			Result		PASS	

LTE Band 26 / 15MHz (Channel 26765) (GT - LC = -2.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.96	0.2489	18.91	0.0778
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	16QAM	1	74	22.78	0.1897	17.73	0.0593
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	64QAM	1	74	21.79	0.1510	16.74	0.0472
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Limit	ERP < 100W			Result		PASS	



Radiated Spurious Emission

LTE Band 26

LTE Band 26 / 3MHz / 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	1631	-63.98	-13	-50.98	-72.64	-69.64	0.81	8.62	H
	2447	-59.80	-13	-46.80	-73.32	-67.34	1.04	10.73	H
	3265	-57.99	-13	-44.99	-73.76	-66.52	1.10	11.78	H
									H
									H
									H
	1631	-63.40	-13	-50.40	-71.92	-69.06	0.81	8.62	V
	2447	-59.64	-13	-46.64	-73.36	-67.18	1.04	10.73	V
	3265	-57.73	-13	-44.73	-73.78	-66.26	1.10	11.78	V
									V
									V
									V
Middle	1638	-63.73	-13	-50.73	-72.41	-69.42	0.81	8.65	H
	2457	-60.08	-13	-47.08	-73.62	-67.63	1.04	10.74	H
	3276	-57.68	-13	-44.68	-73.39	-66.24	1.10	11.81	H
									H
									H
									H
	1638	-63.34	-13	-50.34	-71.88	-69.03	0.81	8.65	V
	2457	-60.09	-13	-47.09	-73.81	-67.64	1.04	10.74	V
	3276	-57.78	-13	-44.78	-73.8	-66.34	1.10	11.81	V
									V
									V
									V



Highest	1645	-63.68	-13	-50.68	-72.4	-69.40	0.81	8.68	H
	2468	-59.77	-13	-46.77	-73.33	-67.34	1.04	10.76	H
	3290	-58.05	-13	-45.05	-73.7	-66.64	1.10	11.84	H
									H
									H
									H
									H
	1645	-63.88	-13	-50.88	-72.45	-69.60	0.81	8.68	V
	2468	-59.33	-13	-46.33	-73.05	-66.90	1.04	10.76	V
	3290	-57.68	-13	-44.68	-73.68	-66.27	1.10	11.84	V
									V
									V
									V
									V

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



LTE Band 26 / 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	1638	-63.80	-13	-50.80	-72.48	-69.49	0.81	8.65	H
	2457	-60.38	-13	-47.38	-73.92	-67.93	1.04	10.74	H
	3276	-58.16	-13	-45.16	-73.87	-66.72	1.10	11.81	H
									H
									H
									H
									H
	1638	-64.21	-13	-51.21	-72.75	-69.90	0.81	8.65	V
	2457	-59.97	-13	-46.97	-73.69	-67.52	1.04	10.74	V
	3276	-57.72	-13	-44.72	-73.74	-66.28	1.10	11.81	V
									V
									V
									V
									V

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



LTE Band 26 / 15MHz / 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	1643	-63.83	-13	-50.83	-72.54	-69.54	0.81	8.67	H
	2465	-59.41	-13	-46.41	-72.96	-66.97	1.04	10.75	H
	3286	-58.22	-13	-45.22	-73.88	-66.80	1.10	11.83	H
									H
									H
									H
									H
	1643	-64.03	-13	-51.03	-72.6	-69.74	0.81	8.67	V
	2465	-59.76	-13	-46.76	-73.47	-67.32	1.04	10.75	V
	3286	-57.79	-13	-44.79	-73.79	-66.37	1.10	11.83	V
									V
									V
									V
									V

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

—————THE END—————