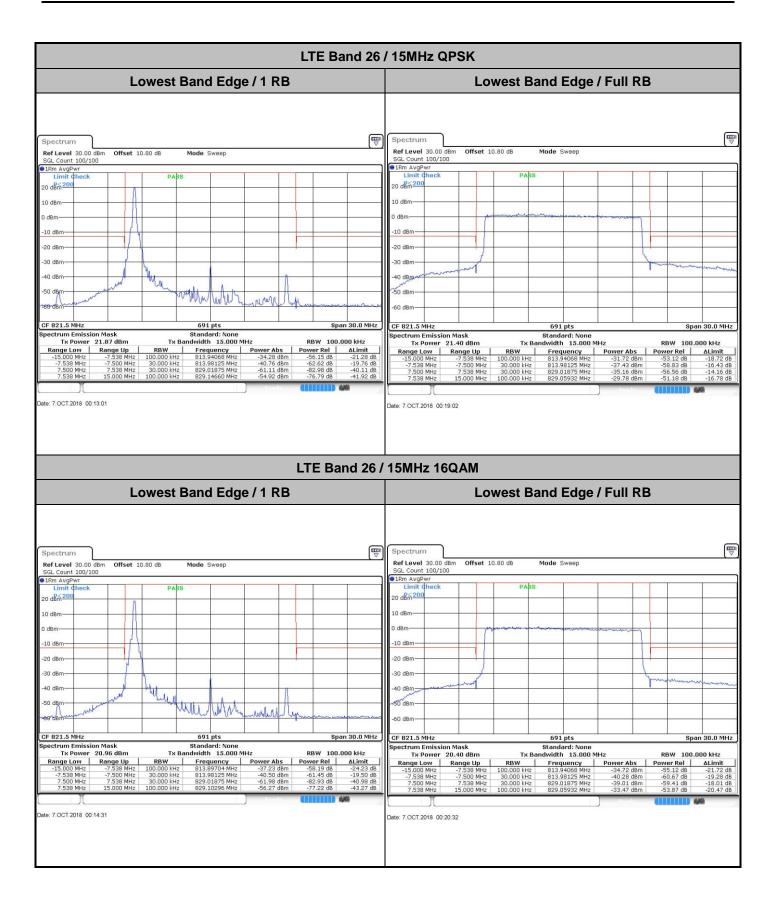


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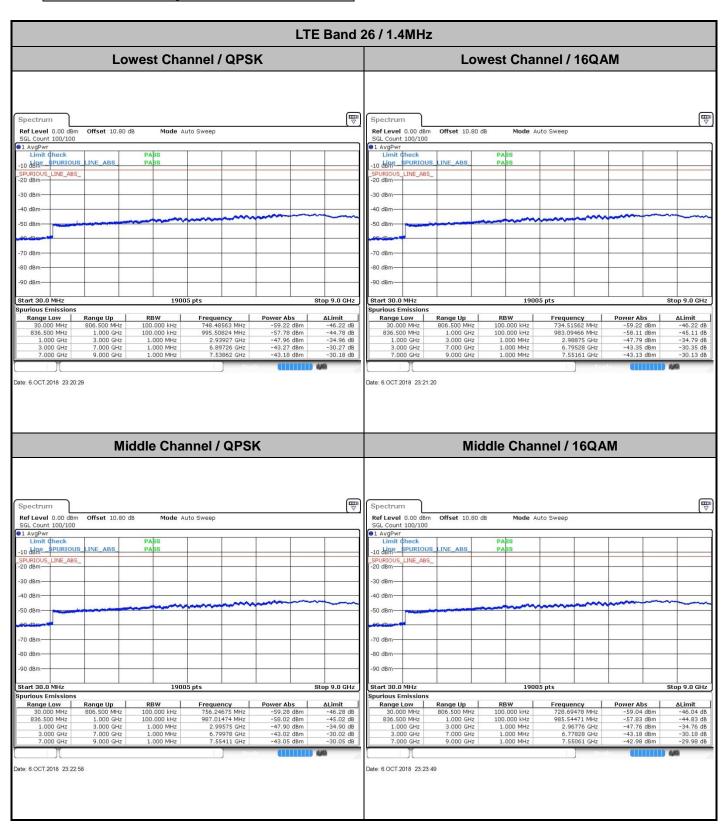
Report No.: FG890633C



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Conducted Spurious Emission



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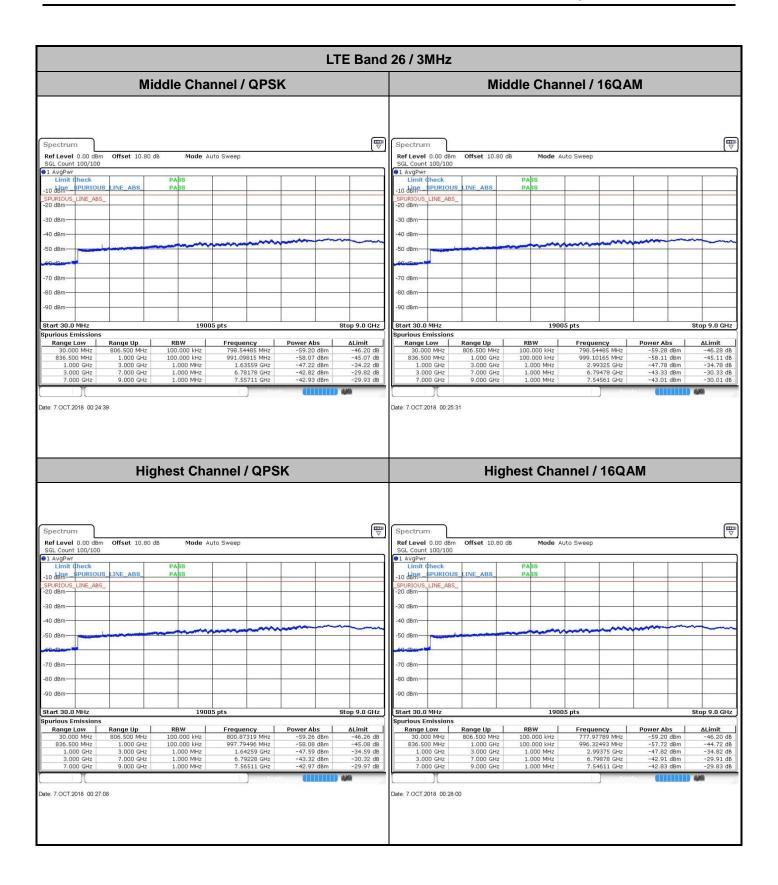
PORTON LAB. FCC RADIO TEST REPORT

LTE Band 26 / 1.4MHz **Highest Channel / QPSK Highest Channel / 16QAM ** Spectrum Spectrum Ref Level 0.00 Offset 10.80 dB Mode Auto Sweep Ref Level 0.00 Offset 10.80 dB Mode Auto Sweep SGL Count 100/100 11 AvgPwr Limit ¢heck Count 100/100 ●1 AvgPwr Limit the 10 dine SPURIOUS LINE ABS 10 dem SPURIOUS LINE ABS SPURIOUS_LINE_ABS_ 20 dBm -30 dBm -30 dBm 40 dBm 40 dBm -50 dBm -50 dBm-70 dBm 70 dBm Stop 9.0 GHz Spurious Emission: urious Emissions Range Up RBW 100.000 kHz 100.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz ΔLimit
-46.15 dB
-45.23 dB
-35.04 dB
-30.05 dB
-30.15 dB RBW 100.000 kHz 100.000 kHz 1.000 MHz -59.25 dBm -57.68 dBm -47.73 dBm Range Low 30.000 MHz -46.25 Range Low 30.000 MHz 995.99825 MHz 1.64609 GHz 996.32493 MHz 2.99075 GHz 836.500 MHz 1.000 GHz 3.000 GHz 836.500 MHz 1.000 GHz 3.000 GHz 7.000 GHz 9.000 GHz -43.05 dBm -43.15 dBm Date: 6.OCT.2018 23:25:26 Date: 6.OCT.2018 23:26:18 LTE Band 26 / 3MHz Lowest Channel / QPSK Lowest Channel / 16QAM Spectrum Spectrum Ref Level 0.00 dBm Offset 10.80 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 10.80 dB Mode Auto Sweep GL Count 100/100 SGL Count 100/100 ●1 AvgPwr Limit ¢heck 1 AvgPwr Limit Check 10 dine SPURIOUS 10 dem SPURIOUS LINE ABS _LINE_ABS_ LINE_ABS_ SPURIOUS -20 dBm--30 dBm -30 dBm 40 dBm 40 dBm 50 dBm 50 dBm 80 dBm 80 dBm Start 30.0 MHz 19005 pts Stop 9.0 GHz Start 30.0 MHz 19005 pts Stop 9.0 GHz Range Low Power Abs -59.03 dBm -57.93 dBm -47.48 dBm -43.28 dBm -42.86 dBm -46.03 dB -44.93 dB -34.48 dB -30.28 dB -29.86 dB RBW 100.000 kHz 100.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz Power Abs
-59.17 dBm
-58.09 dBm
-47.79 dBm
-43.11 dBm
-43.03 dBm Frequency 787.29123 MHz 970.51773 MHz 2.91177 GHz Range Up Range Low ΔLimit -46.17 dB -45.09 dB -34.79 dB -30.11 dB -30.03 dB 836.500 MHz 1.000 GHz 3.000 GHz 7.000 GHz 1.000 GHz 3.000 GHz 7.000 GHz 9.000 GHz 1.000 GHz 3.000 GHz 7.000 GHz 9.000 GHz Date: 7.OCT.2018 00:22:11 Date: 7.OCT.2018 00:23:02

Report No.: FG890633C

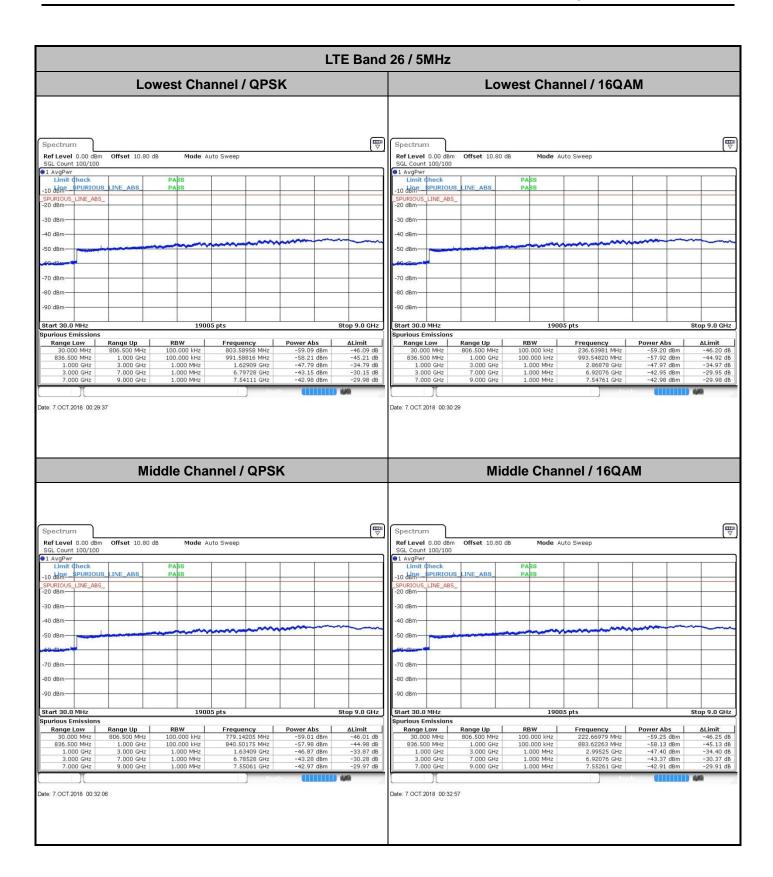
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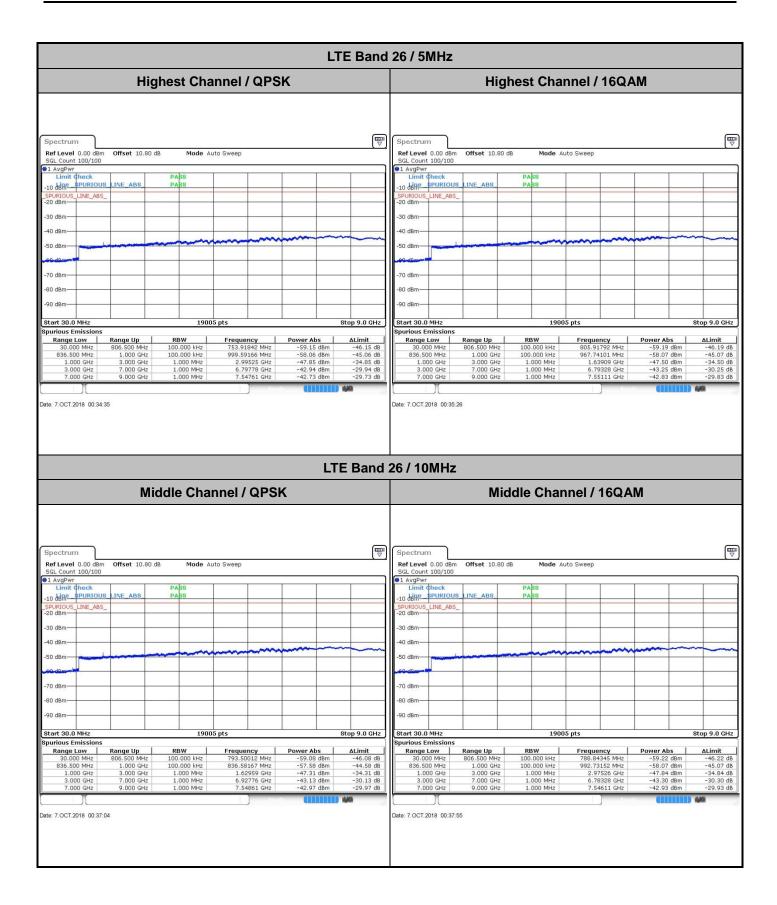
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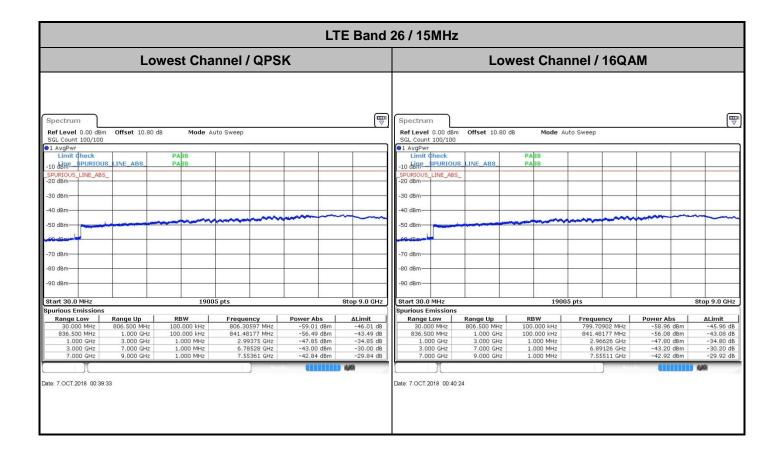
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Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature	Voltage	BW 10MHz	Note 2.
(°C)	(Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0009	
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0018	DACC
-10	Normal Voltage	0.0004	PASS
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

- 1. Normal Voltage =7.6 V.; Battery End Point (BEP) =6.8 V.; Maximum Voltage =8.7 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.

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Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit			
Temperature	Voltage	BW 15MHz	Note 2.			
(°C)	(Volt)	Deviation (ppm)	Result			
50	Normal Voltage	0.0022				
40	Normal Voltage	0.0032				
30	Normal Voltage	0.0046				
20(Ref.)	Normal Voltage					
10	Normal Voltage	0.0040	DACC			
0	Normal Voltage	0.0001				
-10	Normal Voltage	0.0034	PASS			
-20	Normal Voltage	0.0028				
-30	Normal Voltage	0.0039				
20	Maximum Voltage	0.0018				
20	Normal Voltage					
20	Battery End Point	0.0039				

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Note:

- 1. Normal Voltage =7.6 V.; Battery End Point (BEP) =6.8 V.; Maximum Voltage =8.7 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.

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Appendix B. Test Results of ERP and Radiated Test

ERP

<Reporting Only>

cheporally only?									
LTE Band 26 / 15MHz (Channel 26765)									
Channel	Mode	RB		Conducted		ERP			
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)		
Lowest	QPSK	1	37	22.91	0.20	22.26	0.17		
Middle		-	-	-	-	-	-		
Highest		-	-	-	-	-	-		
Lowest	16QAM	1	37	21.99	0.16	21.34	0.14		
Middle		-	-	-	-	-	-		
Highest		-	-	-	-	-	-		
Limit	ERP < 7W			Re	sult	PASS			

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Radiated Spurious Emission

Part 90S LTE Band 26

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Part 90S LTE Band 26 / 1.4MHz / 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	1632	-60.58	-13	-47.58	-71.77	-65.91	1.22	8.70	Н
	2440	-57.06	-13	-44.06	-73.04	-63.93	1.43	10.45	Н
	3256	-56.60	-13	-43.60	-74.4	-64.45	1.67	11.67	Н
									Н
	1632	-61.89	-13	-48.89	-72.61	-67.22	1.22	8.70	V
	2440	-57.97	-13	-44.97	-74.05	-64.84	1.43	10.45	V
	3256	-55.88	-13	-42.88	-74.16	-63.73	1.67	11.67	V
									V
	1638	-61.88	-13	-48.88	-73.11	-68.81	0.52	9.60	Н
	2457	-53.82	-13	-40.82	-69.83	-61.79	0.65	10.77	Н
	3276	-56.02	-13	-43.02	-73.78	-65.04	0.75	11.93	Н
Middle									Н
Middle	1638	-61.74	-13	-48.74	-72.43	-68.67	0.52	9.60	V
	2457	-56.47	-13	-43.47	-72.61	-64.44	0.65	10.77	V
	3276	-55.66	-13	-42.66	-73.89	-64.68	0.75	11.93	V
									V
Highest	1648	-62.13	-13	-49.13	-73.36	-69.08	0.53	9.63	Н
	2472	-52.04	-13	-39.04	-68.06	-60.02	0.65	10.78	Н
	3296	-56.80	-13	-43.80	-74.53	-65.88	0.76	11.99	Н
									Н
	1648	-62.58	-13	-49.58	-73.27	-69.53	0.53	9.63	V
	2472	-56.11	-13	-43.11	-72.31	-64.09	0.65	10.78	V
	3296	-56.02	-13	-43.02	-74.21	-65.1	0.76	11.99	V
									V

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

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