

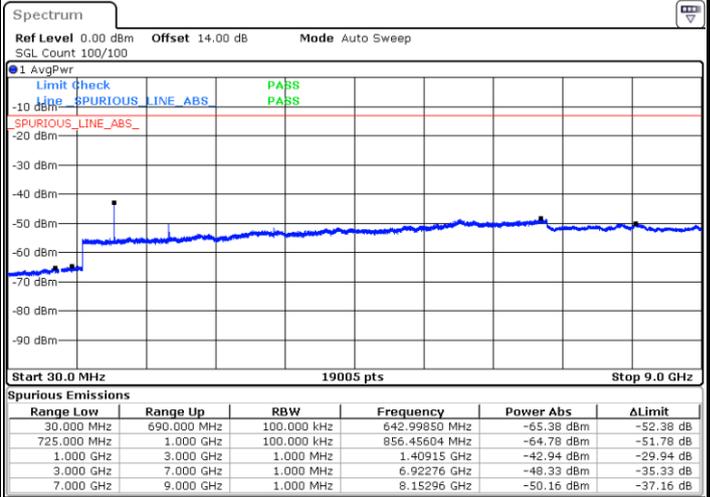
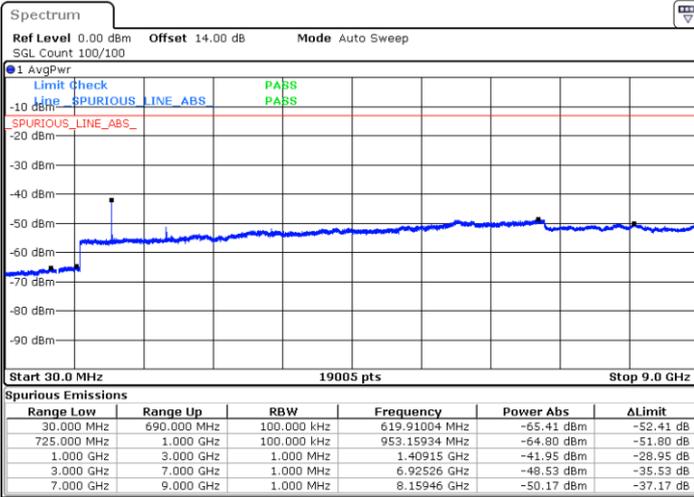


Conducted Spurious Emission

LTE Band 17 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

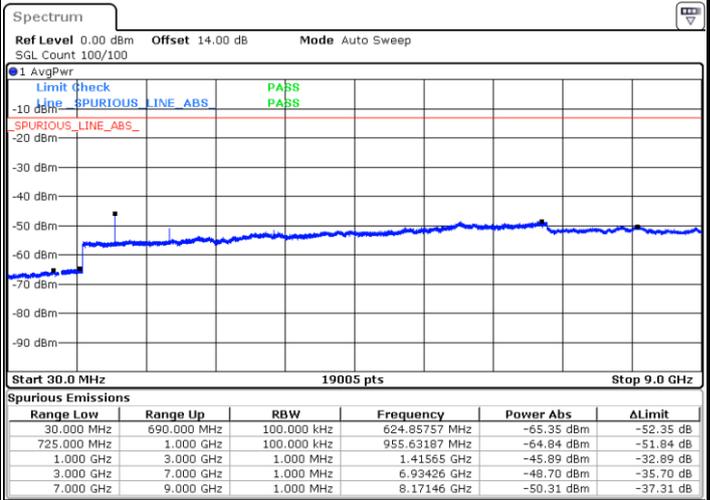
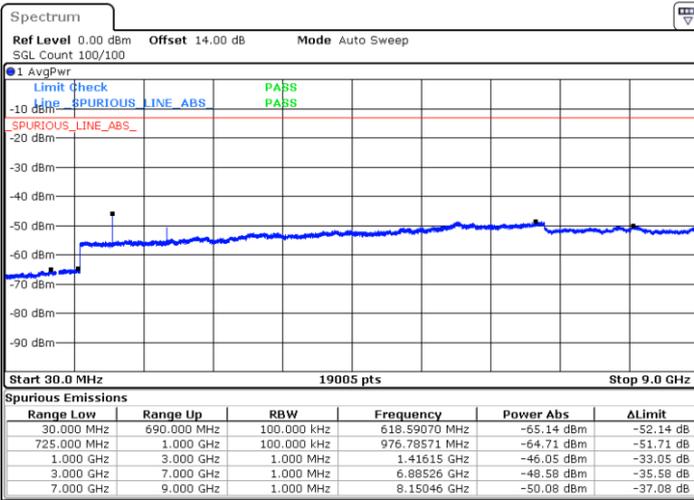


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Date: 11.SEP.2020 03:07:00

Middle Channel / QPSK

Middle Channel / 16QAM



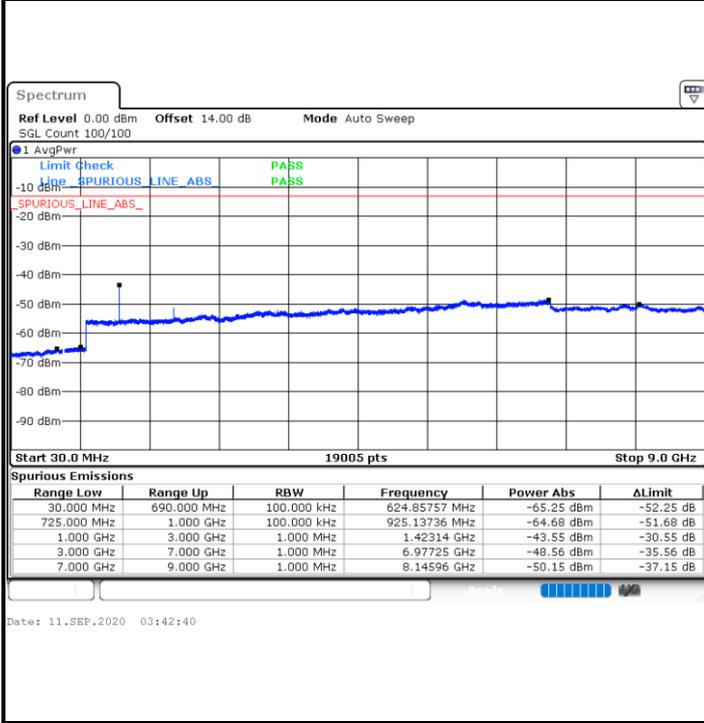
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Date: 11.SEP.2020 02:29:44



LTE Band 17 / 5MHz

Highest Channel / QPSK

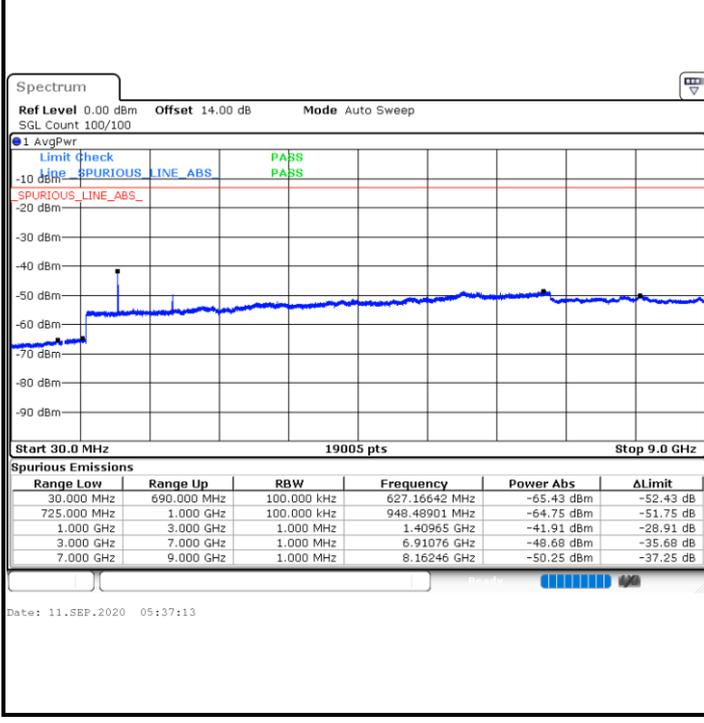


Highest Channel / 16QAM

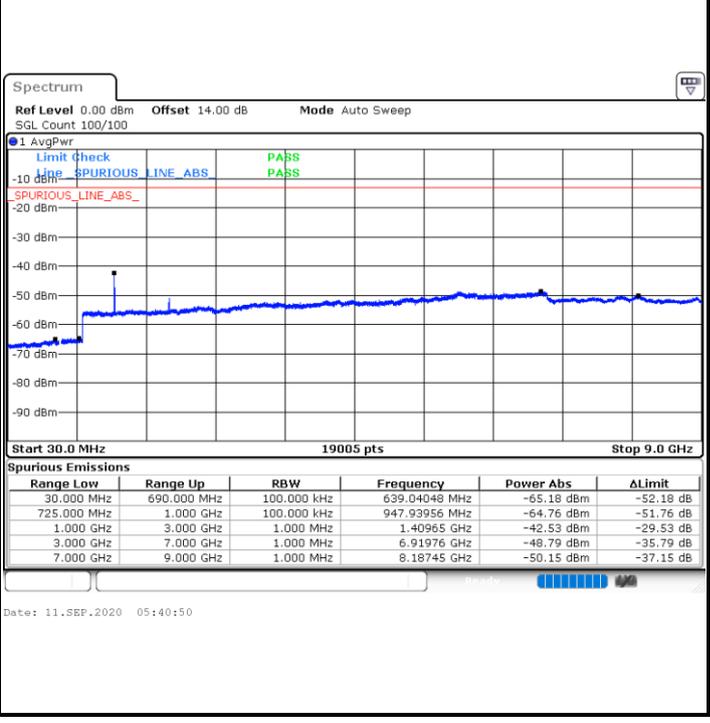


LTE Band 17 / 10MHz

Lowest Channel / QPSK



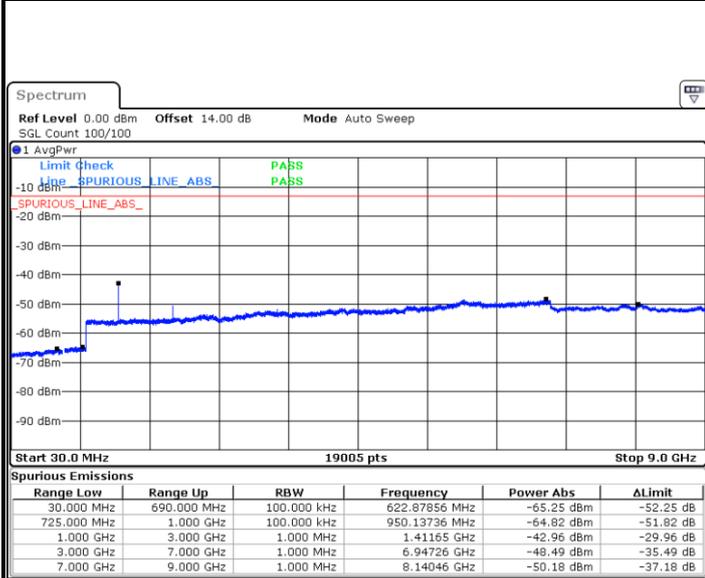
Lowest Channel / 16QAM





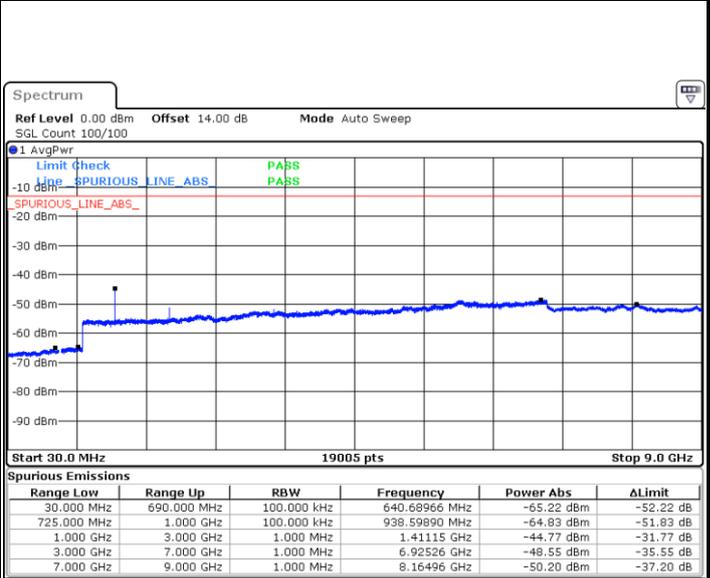
LTE Band 17 / 10MHz

Middle Channel / QPSK



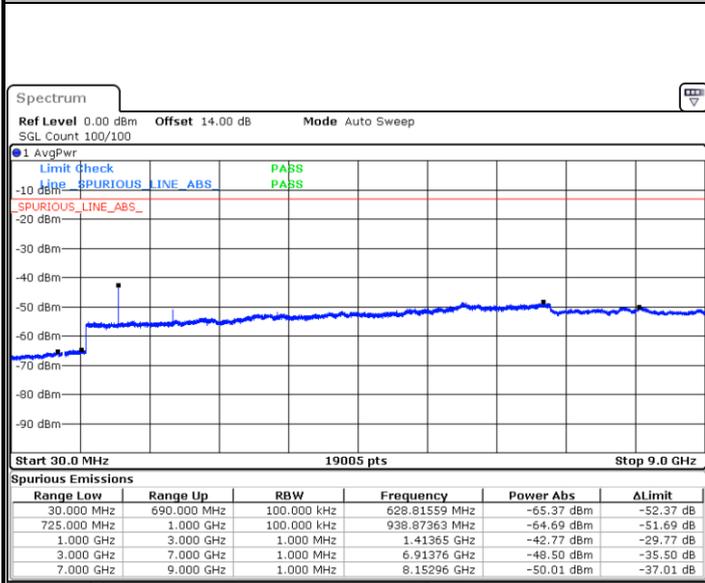
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Middle Channel / 16QAM



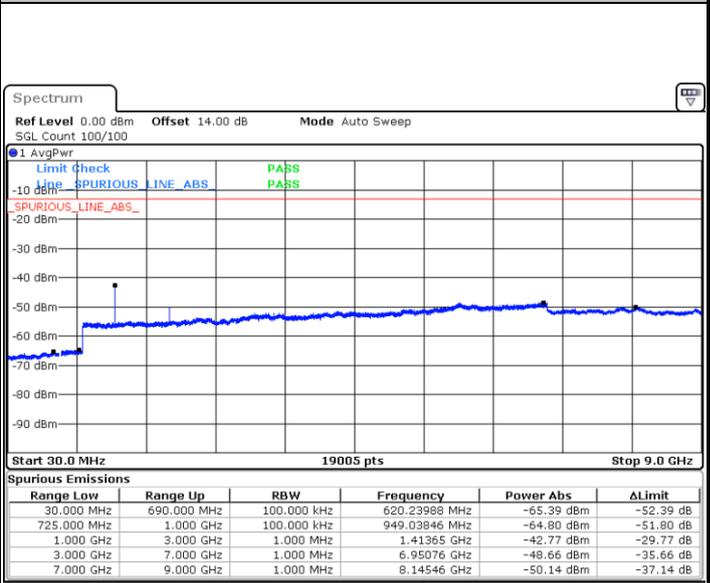
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Highest Channel / QPSK



Date: 11.SEP.2020 06:50:32

Highest Channel / 16QAM



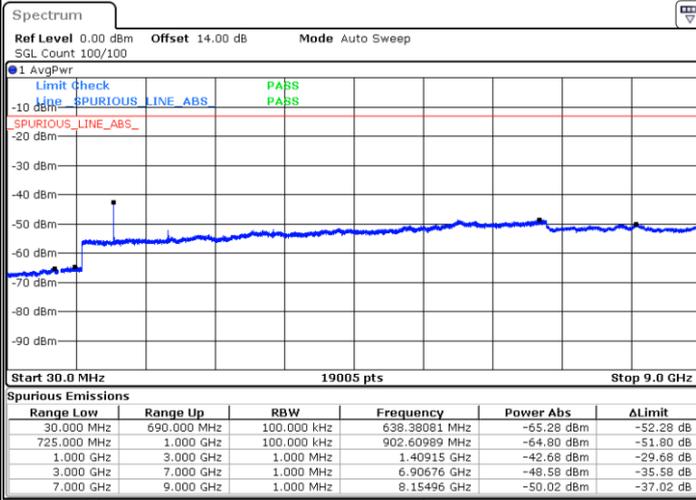
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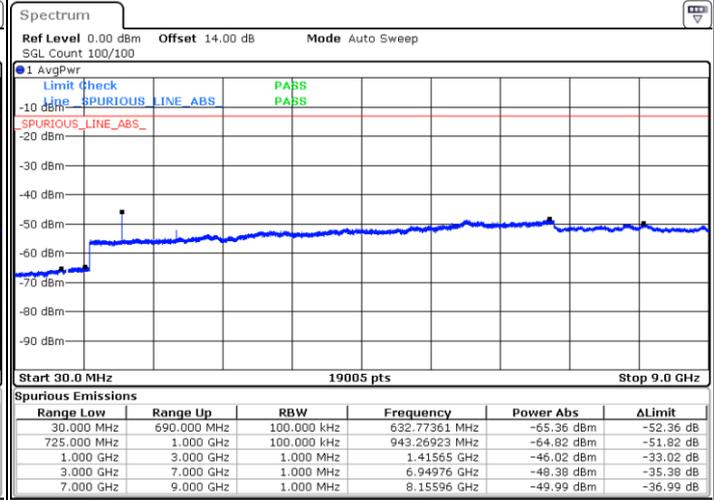
LTE Band 17 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

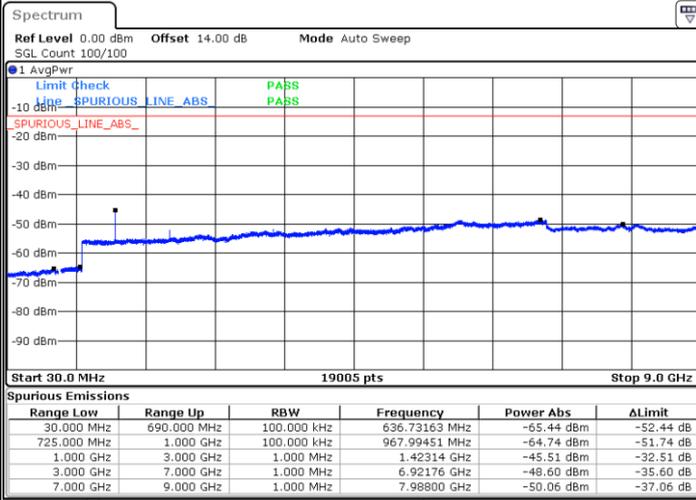


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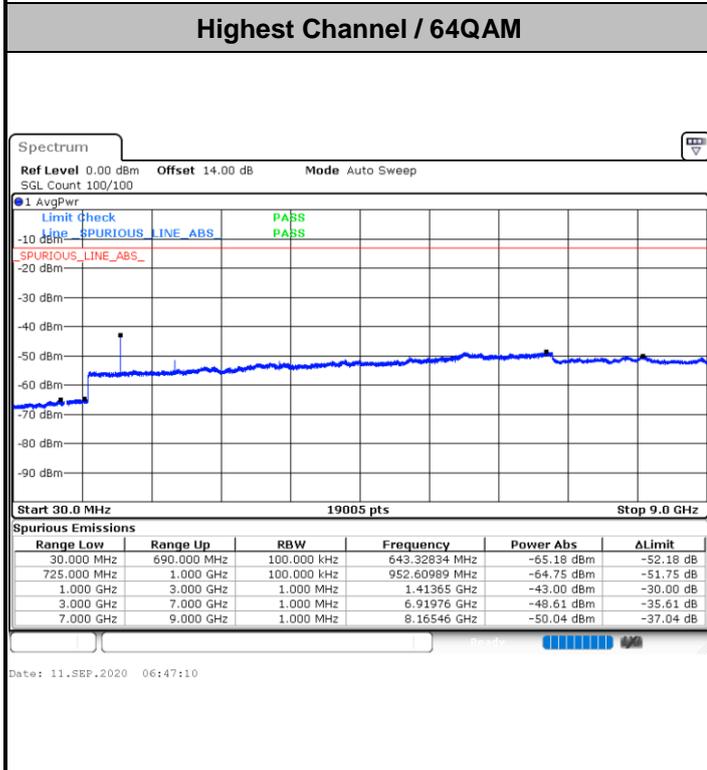
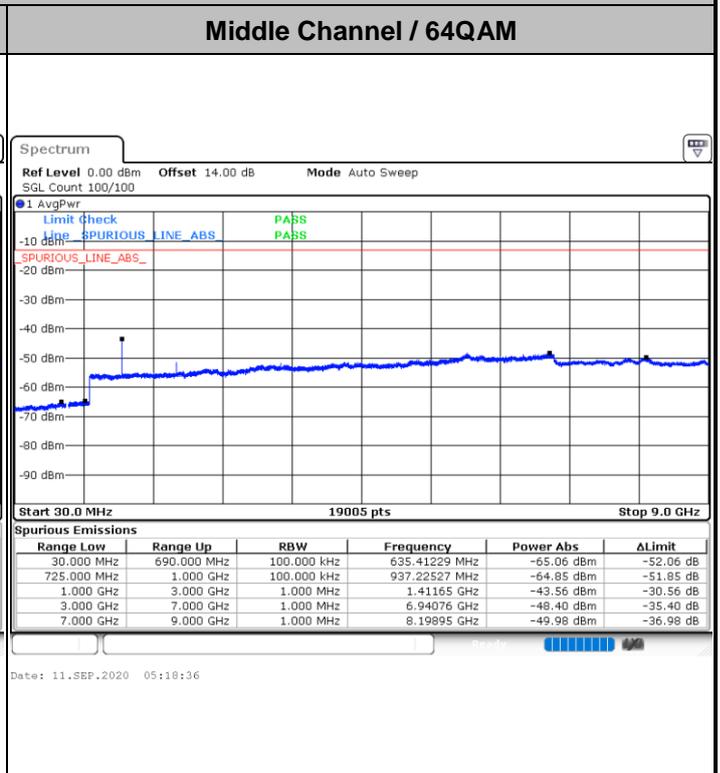
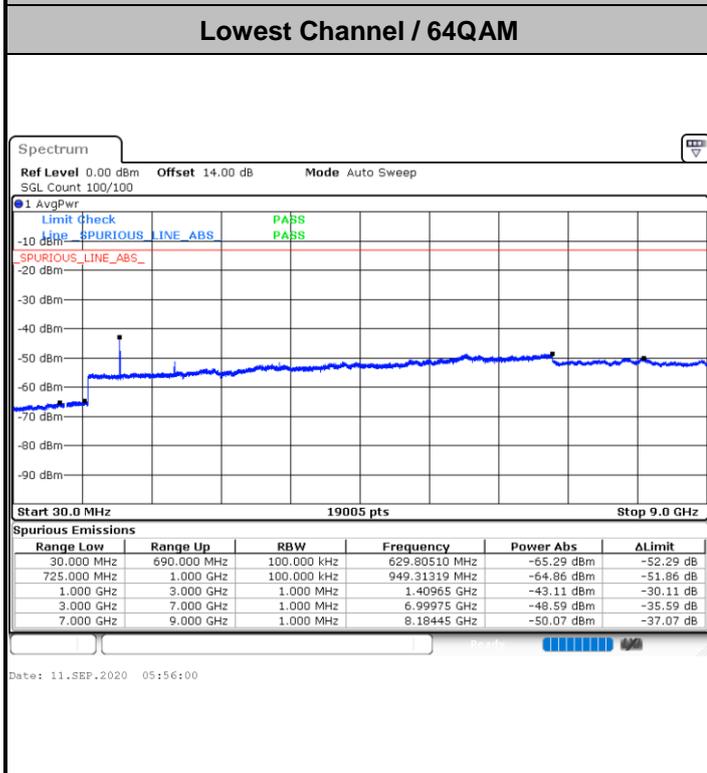
Highest Channel / 64QAM



Date: 11.SEP.2020 03:39:20



LTE Band 17 / 10MHz





Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0054	PASS
40	Normal Voltage	0.0062	
30	Normal Voltage	0.0055	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0056	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage/ Maximum Voltage =4.0 V. ; Battery End Point (BEP) =3.7 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 2 / 20MHz / QPSK									
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	3742.18	-60.10	-13	-47.10	-76.27	-66.85	5.85	12.60	H
	5613.27	-59.53	-13	-46.53	-79.15	-65.33	7.30	13.10	H
	7484.36	-54.68	-13	-41.68	-79.30	-57.83	8.35	11.50	H
	3742.18	-62.47	-13	-49.47	-78.26	-69.22	5.85	12.60	V
	5613.27	-60.44	-13	-47.44	-79.54	-66.24	7.30	13.10	V
	7484.36	-54.24	-13	-41.24	-79.25	-57.39	8.35	11.50	V

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

LTE Band 5 / 10MHz / QPSK for Top Antenna									
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	1664.18	-62.11	-13	-49.11	-69.89	-65.36	4.00	9.40	H
	2496.27	-54.13	-13	-41.13	-66.19	-57.70	4.88	10.60	H
	3328.36	-62.71	-13	-49.71	-77.51	-67.64	5.52	12.60	H
	1664.18	-63.39	-13	-50.39	-71.31	-66.64	4.00	9.40	V
	2496.27	-56.88	-13	-43.88	-69.03	-60.45	4.88	10.60	V
	3328.36	-62.29	-13	-49.29	-77.07	-67.22	5.52	12.60	V

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

LTE Band 5 / 10MHz / QPSK for Bottom Antenna									
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	1664.18	-62.08	-13	-49.08	-69.86	-65.33	4.00	9.40	H
	2496.27	-50.19	-13	-37.19	-62.25	-53.76	4.88	10.60	H
	3328.36	-62.36	-13	-49.36	-77.16	-67.29	5.52	12.60	H
	1664.18	-64.16	-13	-51.16	-72.08	-67.41	4.00	9.40	V
	2496.27	-53.24	-13	-40.24	-65.39	-56.81	4.88	10.60	V
	3328.36	-62.95	-13	-49.95	-77.73	-67.88	5.52	12.60	V

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



LTE Band 12 / 10MHz / QPSK									
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	1406	-62.65	-13	-49.65	-71.67	-65.90	4.00	9.40	H
	2109	-61.29	-13	-48.29	-72.45	-64.86	4.88	10.60	H
	2812	-62.74	-13	-49.74	-76.58	-67.67	5.52	12.60	H
	1406	-64.02	-13	-51.02	-72.93	-67.27	4.00	9.40	V
	2109	-61.32	-13	-48.32	-72.71	-64.89	4.88	10.60	V
	2812	-62.74	-13	-49.74	-76.51	-67.67	5.52	12.60	V

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

LTE Band 17 / 10MHz / QPSK									
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	1411.18	-60.87	-13	-47.87	-69.88	-64.12	4.00	9.40	H
	2116.77	-64.81	-13	-51.81	-76.06	-68.38	4.88	10.60	H
	2822.36	-62.67	-13	-49.67	-76.53	-67.60	5.52	12.60	H
	1411.18	-64.36	-13	-51.36	-73.26	-67.61	4.00	9.40	V
	2116.77	-64.47	-13	-51.47	-75.97	-68.04	4.88	10.60	V
	2822.36	-62.52	-13	-49.52	-76.31	-67.45	5.52	12.60	V

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