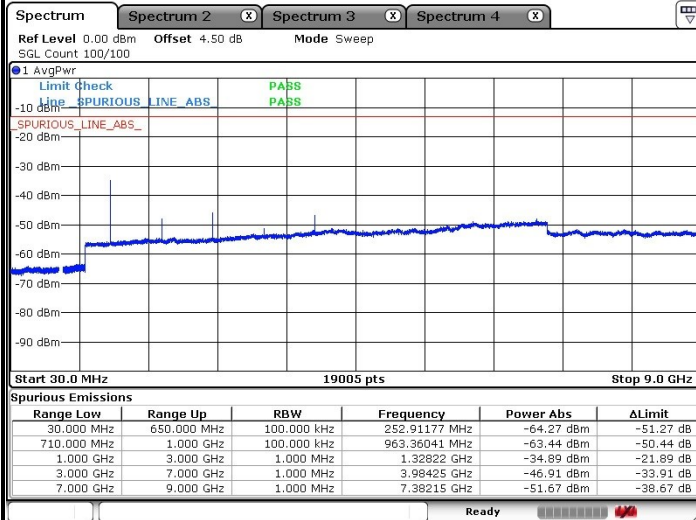




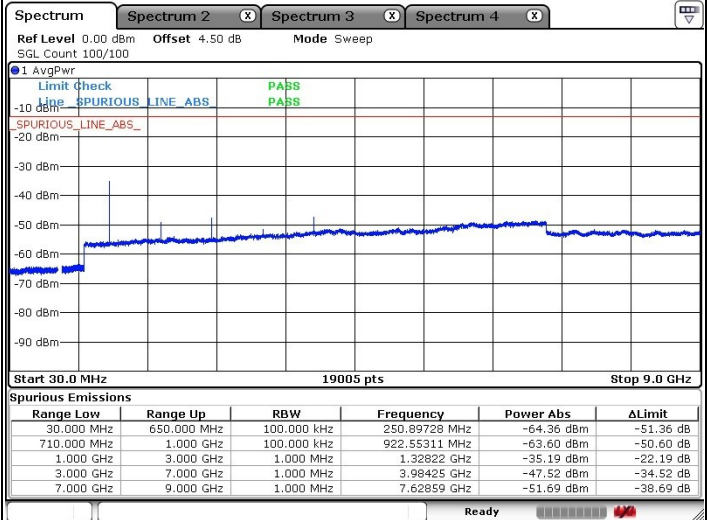
LTE Band 71 / 15MHz

Lowest Channel / QPSK



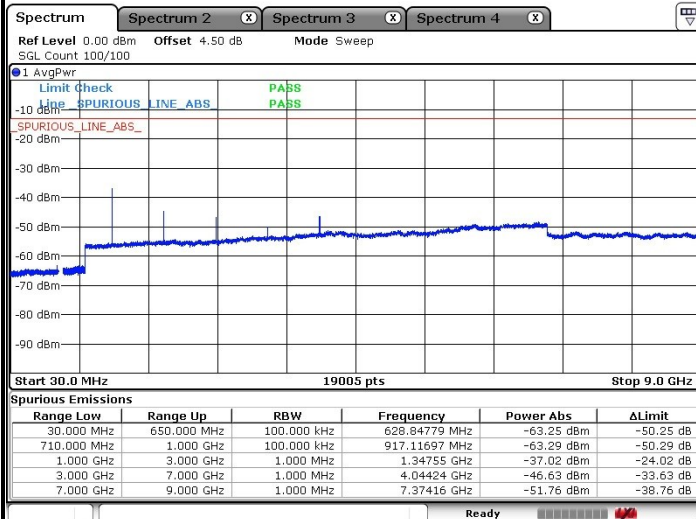
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Lowest Channel / 16QAM



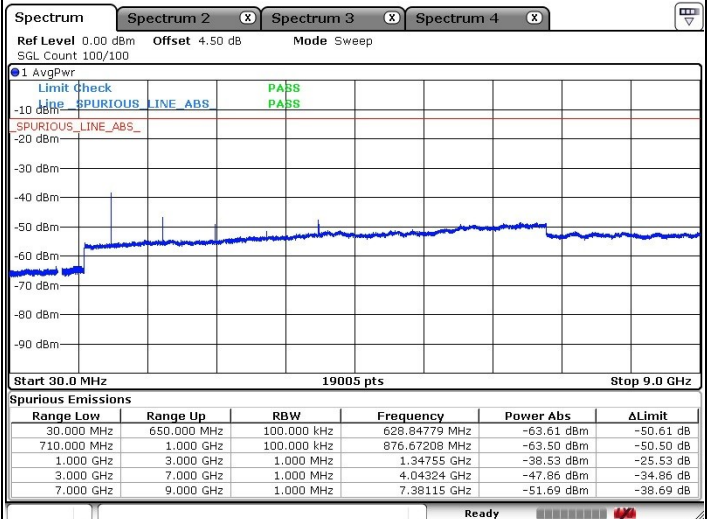
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Middle Channel / QPSK



Date: 13 MAR 2019 00:48:20

Middle Channel / 16QAM

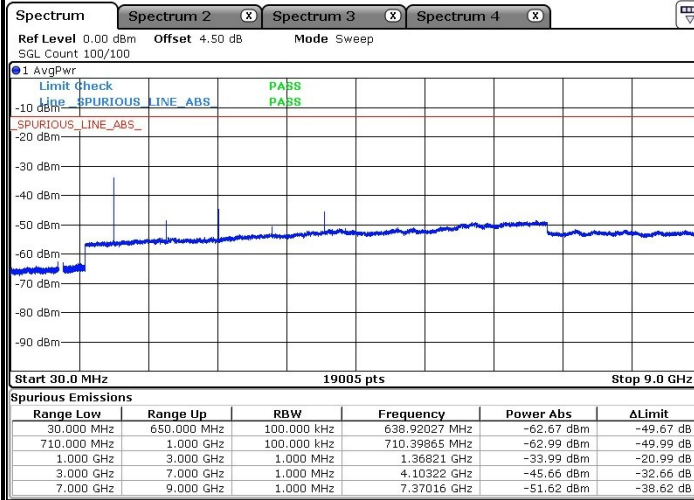


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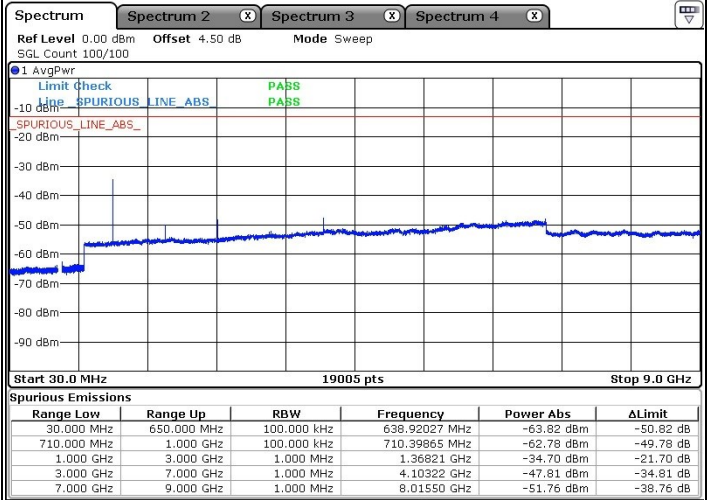
LTE Band71 / 15MHz

Highest Channel / QPSK



Date: 13 MAR 2019 00:48:56

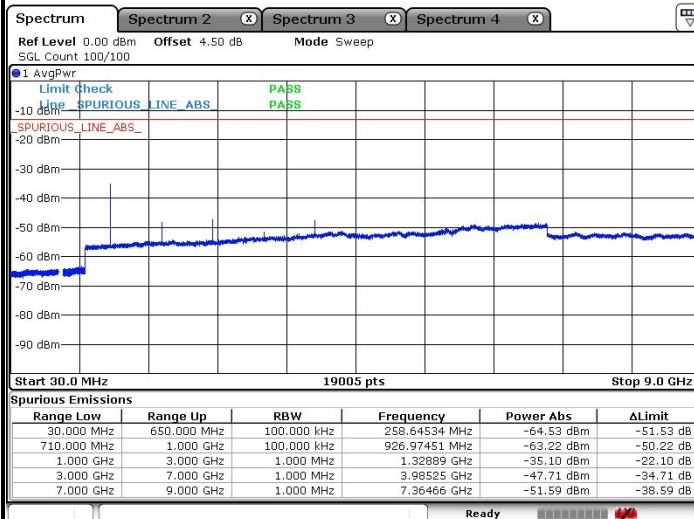
Highest Channel / 16QAM



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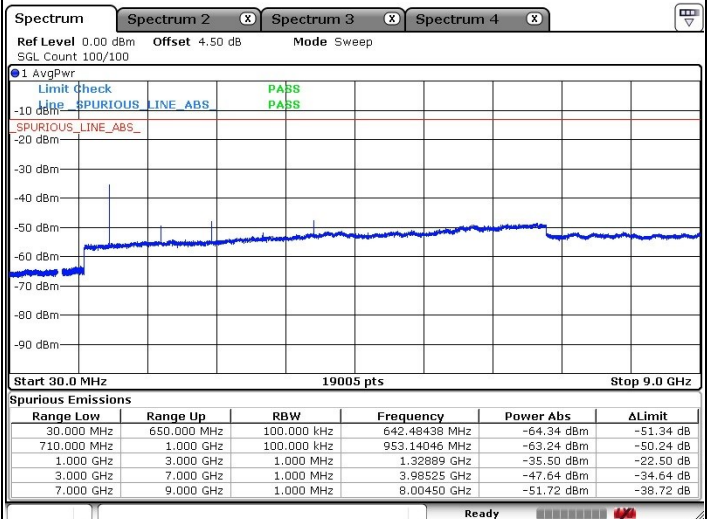
LTE Band 71 / 20MHz

Lowest Channel / QPSK



Date: 13 MAR 2019 00:52:50

Lowest Channel / 16QAM

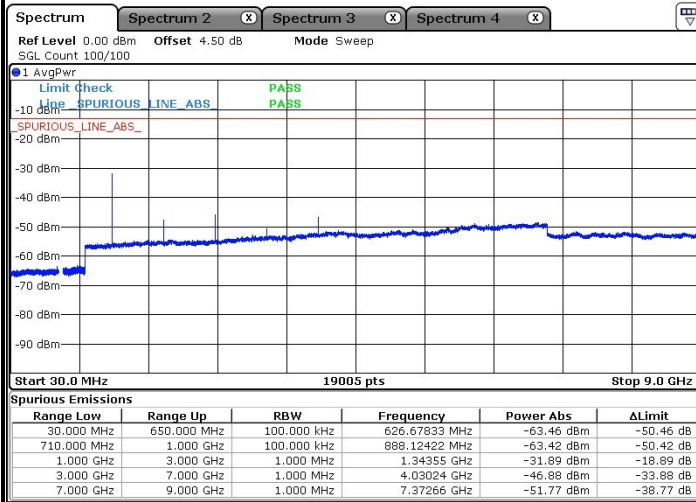


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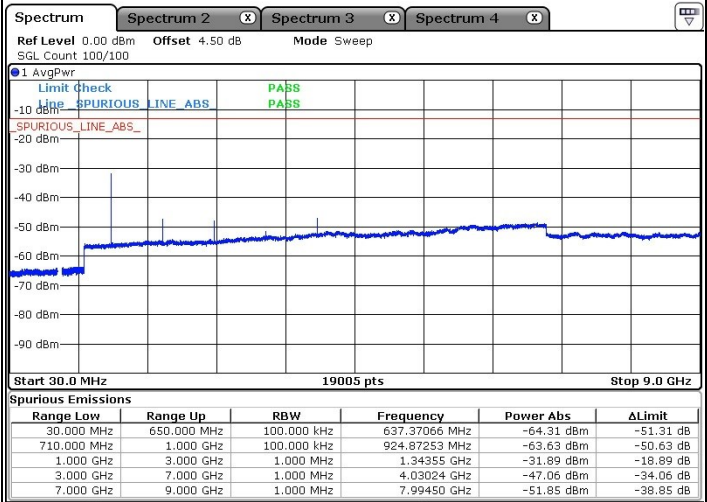
LTE Band 71 / 20MHz

Middle Channel / QPSK



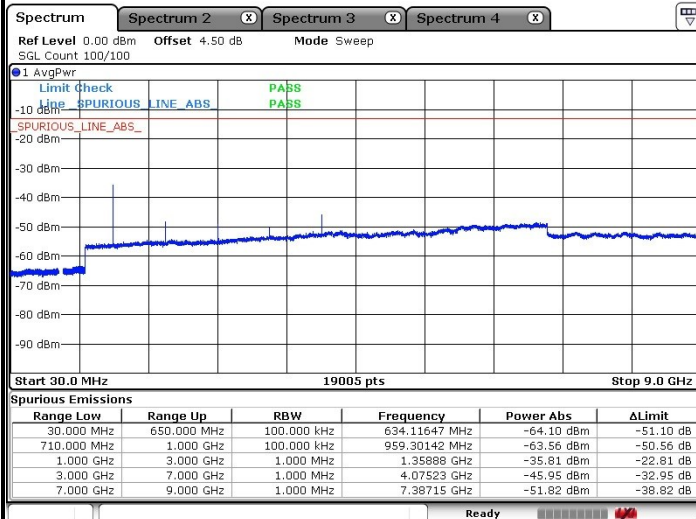
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Middle Channel / 16QAM



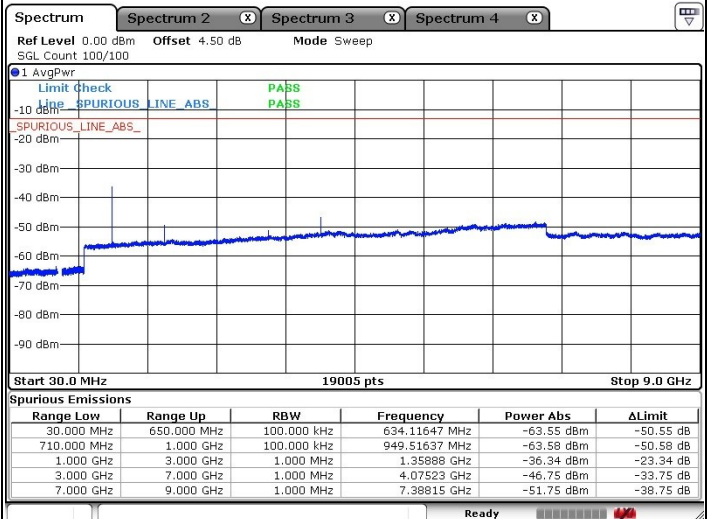
Date: 13 MAR 2019 01:03:14

Highest Channel / QPSK



Date: 13 MAR 2019 01:04:43

Highest Channel / 16QAM



Date: 13 MAR 2019 01:05:11

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.33V. ; Maximum Voltage = 4.07V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0030	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0031	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.33V. ; Maximum Voltage =4.07V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.33 V. ; Maximum Voltage =4.07 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0002	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage = 3.7V. ; Battery End Point (BEP) =3.33 V. ; Maximum Voltage =4.07 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0050	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0035	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0046	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0041	
20	Normal Voltage	0.0021	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.7V. ; Battery End Point (BEP) =3.33 V. ; Maximum Voltage =4.07 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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-56.26	-13	-43.26	-61.13	3.55	8.42	H
	5613	-46.26	-13	-33.26	-52.60	4.34	10.68	H
	7488	-52.68	-13	-39.68	-59.48	5.14	11.94	H
	3741	-55.48	-13	-42.48	-60.35	3.55	8.42	V
	5613	-53.42	-13	-40.42	-59.76	4.34	10.68	V
	7488	-52.40	-13	-39.40	-59.20	5.14	11.94	V

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

LTE Band 5 / 10MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664	-64.22	-13	-51.22	-65.43	2.32	5.68	H
	2496.27	-66.10	-13	-53.10	-66.73	3.02	5.80	H
	3330	-65.18	-13	-52.18	-67.64	3.27	7.88	H
	1664	-63.28	-13	-50.28	-64.49	2.32	5.68	V
	2496.27	-66.45	-13	-53.45	-67.08	3.02	5.80	V
	3330	-65.37	-13	-52.37	-67.83	3.27	7.88	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1406	-67.34	-13	-54.34	-68.55	2.32	5.68	H
	2110	-54.47	-13	-41.47	-55.10	3.02	5.80	H
	2812	-65.40	-13	-52.40	-67.86	3.27	7.88	H
	1406	-67.31	-13	-54.31	-68.52	2.32	5.68	V
	2110	-53.56	-13	-40.56	-54.19	3.02	5.80	V
	2812	-65.66	-13	-52.66	-68.12	3.27	7.88	V

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



LTE Band 66 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-55.82	-13	-42.82	-60.54	3.413	8.13	H
	5208	-53.15	-13	-40.15	-59.16	4.195	10.20	H
	6948	-53.62	-13	-40.62	-60.07	4.911	11.36	H
	3471	-50.56	-13	-37.56	-55.28	3.413	8.13	V
	5208	-56.35	-13	-43.35	-62.36	4.195	10.20	V
	6948	-53.93	-13	-40.93	-60.38	4.911	11.36	V

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

LTE Band 71 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1348	-67.30	-13	-54.30	-68.23	2.06	5.14	H
	2022	-54.04	-13	-41.04	-54.26	2.57	4.94	H
	2696	-61.39	-13	-48.39	-62.47	3.04	6.27	H
	1348	-66.09	-13	-53.09	-67.02	2.06	5.14	V
	2022	-49.67	-13	-36.67	-49.89	2.57	4.94	V
	2696	-60.82	-13	-47.82	-61.90	3.04	6.27	V

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