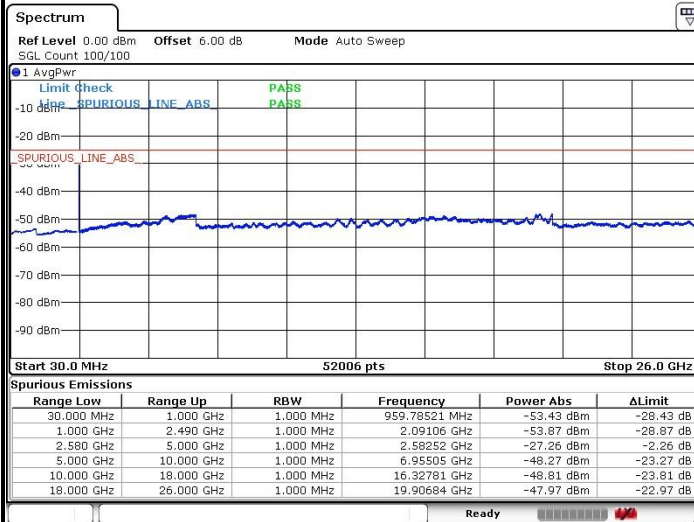




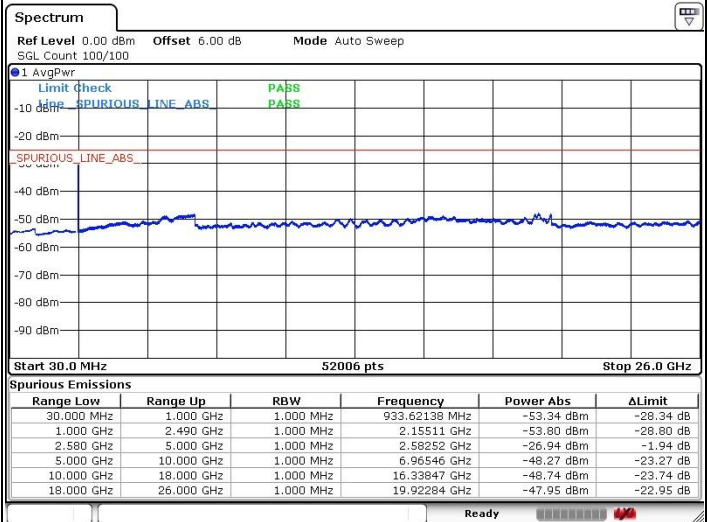
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 23 AUG 2019 10:41:37

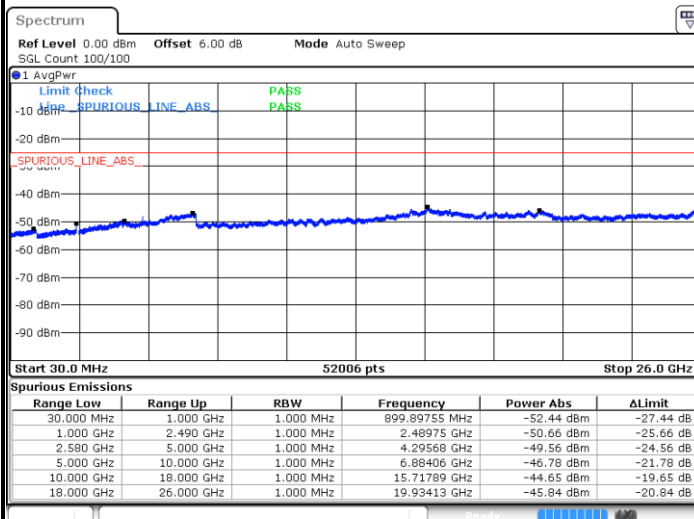
Highest Channel / 16QAM



Date: 23 AUG 2019 10:43:00

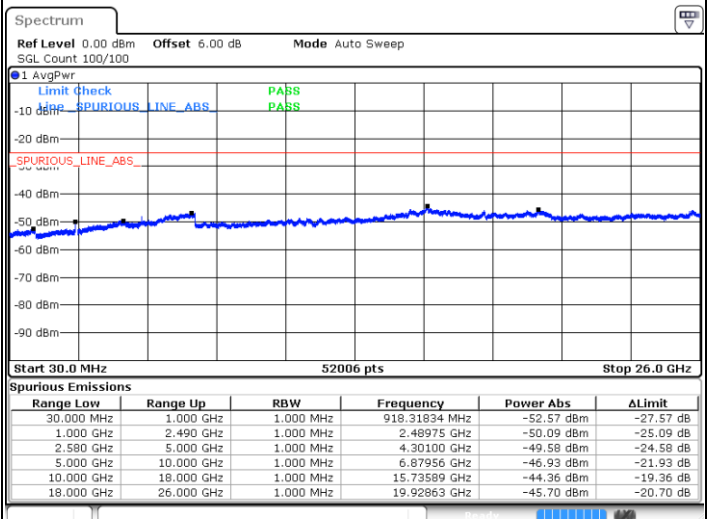
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 8 AUG 2019 08:33:06

Lowest Channel / 16QAM

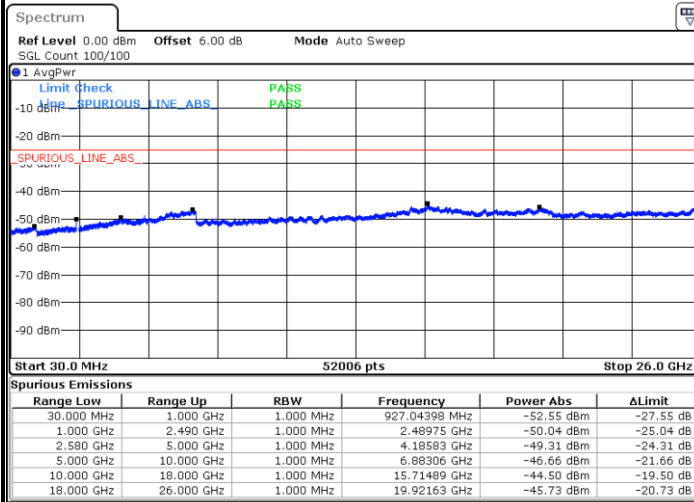


Date: 8 AUG 2019 08:34:00



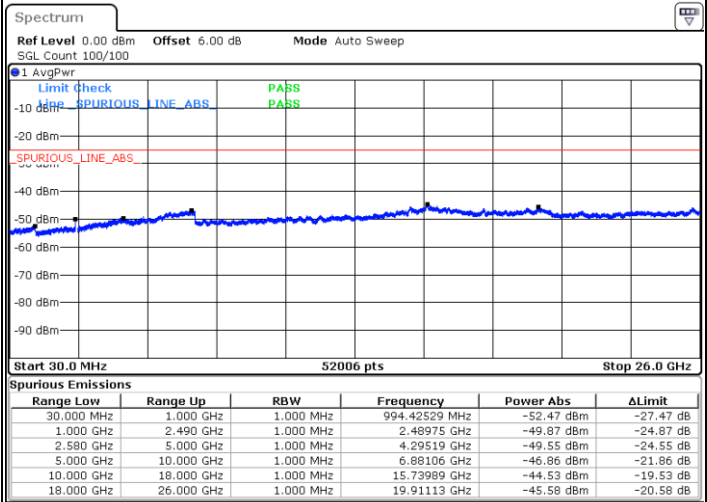
LTE Band 7 / 20MHz

Middle Channel / QPSK



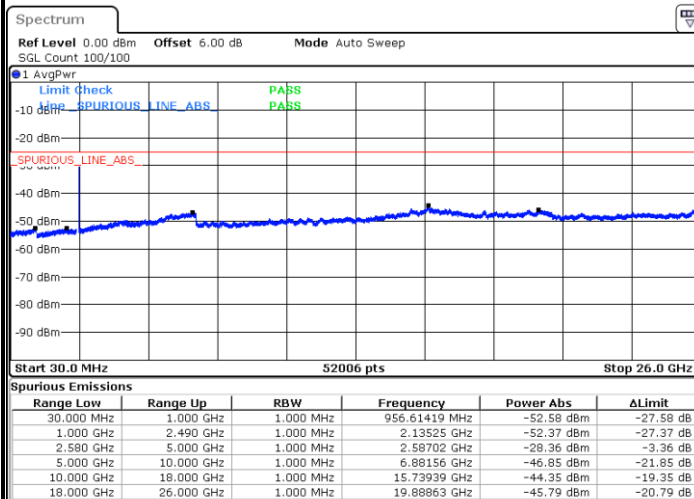
Date: 8 AUG 2019 08:35:48

Middle Channel / 16QAM



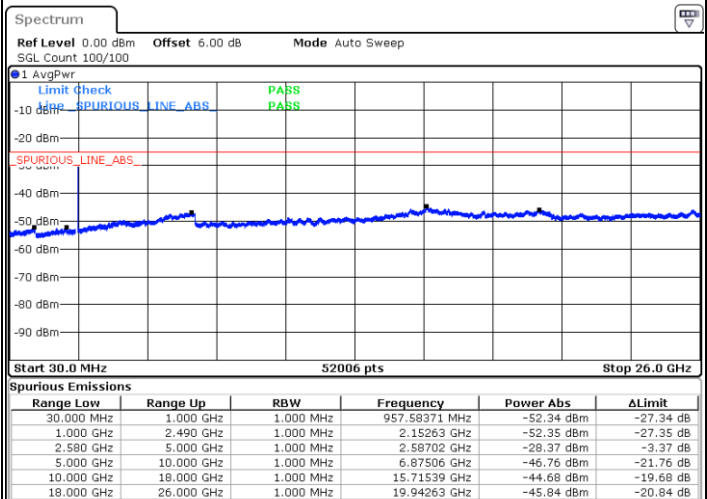
Date: 8 AUG 2019 08:34:54

Highest Channel / QPSK



Date: 8 AUG 2019 08:36:42

Highest Channel / 16QAM



Date: 8 AUG 2019 08:37:36

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	0.0025	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
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	0.0001	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0049	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0055	
0	Normal Voltage	0.0058	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0052	
20	Normal Voltage	0.0060	
20	Battery End Point	0.0012	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0026	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 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	-57.52	-13	-44.52	-69.78	2.641	14.90	H
	5613.27	-55.85	-13	-42.85	-67.71	2.94	14.80	H
	7488	-49.94	-13	-36.94	-59.71	3.39	13.16	H
	3741	-56.96	-13	-43.96	-69.22	2.64	14.90	V
	5613.27	-55.36	-13	-42.36	-67.22	2.94	14.80	V
	7488	-49.05	-13	-36.05	-58.82	3.39	13.16	V

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

LTE Band 4 / 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	3447	-61.69	-13	-48.69	-72.43	2.604	13.34	H
	5172	-56.88	-13	-43.88	-67.39	3.011	13.52	H
	6900	-52.64	-13	-39.64	-62.84	3.271	13.47	H
	3447	-61.90	-13	-48.90	-72.64	2.604	13.34	V
	5172	-56.73	-13	-43.73	-67.24	3.011	13.52	V
	6900	-52.28	-13	-39.28	-62.48	3.271	13.47	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	-66.70	-13	-53.70	-73.67	1.58	10.70	H
	2496.27	-63.72	-13	-50.72	-71.97	2.102	12.50	H
	3330	-63.87	-13	-50.87	-72.76	2.856	13.90	H
	1664.18	-63.81	-13	-50.81	-70.78	1.58	10.70	V
	2496	-63.39	-13	-50.39	-71.64	2.10	12.50	V
	3330	-63.85	-13	-50.85	-72.74	2.86	13.90	V

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

LTE Band 7 / 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	5052	-50.24	-25	-25.24	-60.45	3.03	13.24	H
	7580	-38.43	-25	-13.43	-47.88	3.56	13.01	H
	10100	-57.17	-25	-32.17	-66.69	3.92	13.44	H
	5052	-51.92	-25	-26.92	-62.13	3.03	13.24	V
	7580	-37.37	-25	-12.37	-46.82	3.56	13.01	V
	10100	-57.35	-25	-32.35	-66.87	3.92	13.44	V

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