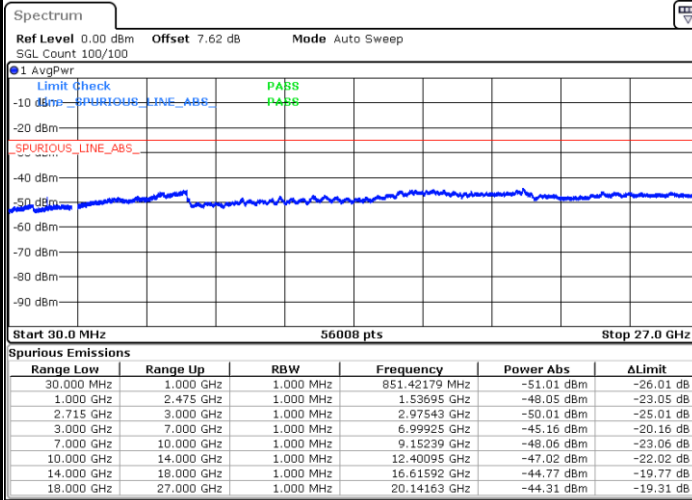




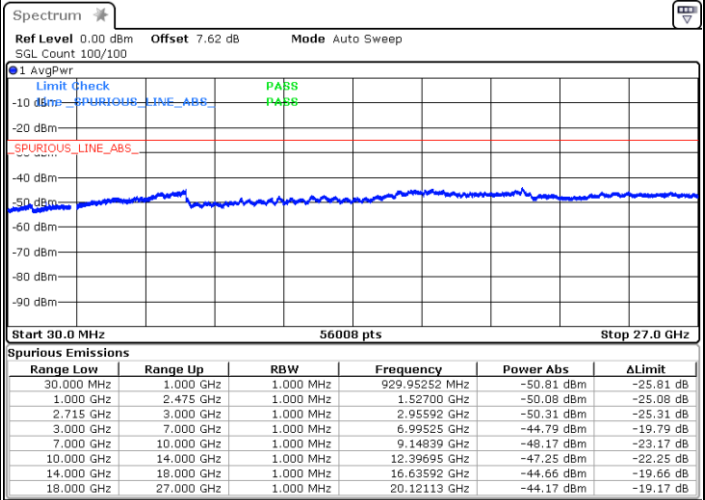
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 5 JUN 2018 19:10:58

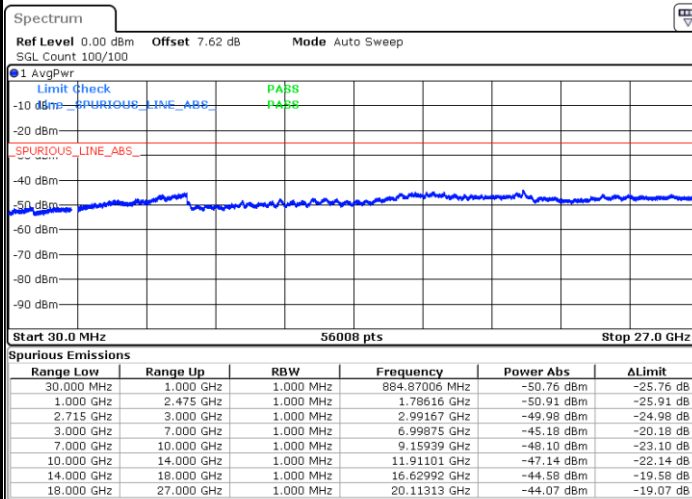
Highest Channel / 16QAM



Date: 5 JUN 2018 18:38:00

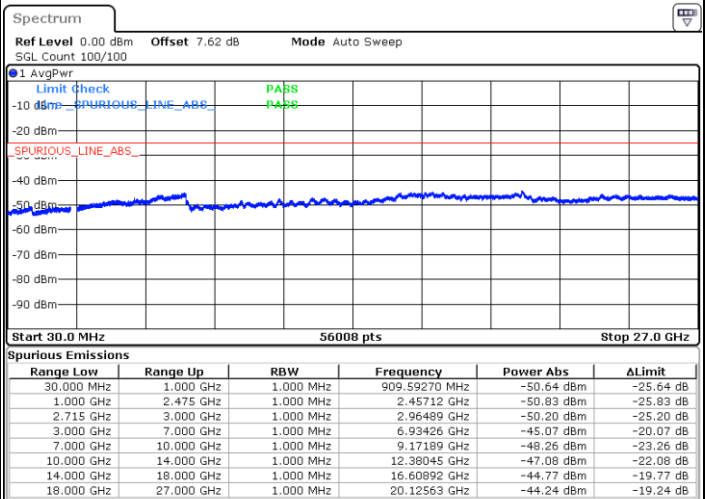
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 5 JUN 2018 19:21:06

Lowest Channel / 16QAM

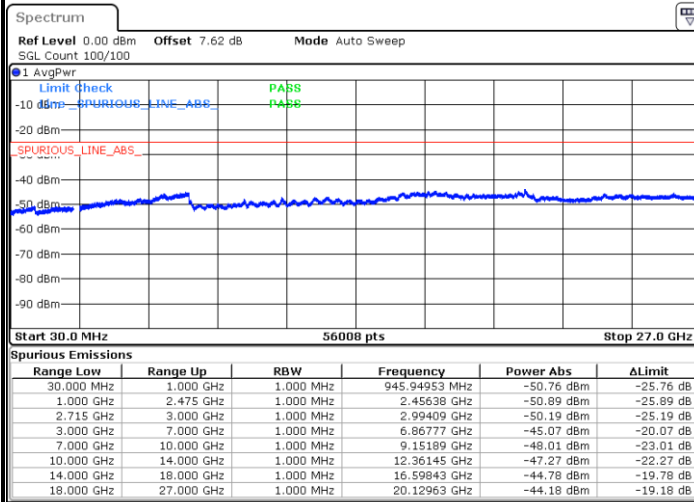


Date: 5 JUN 2018 19:21:54



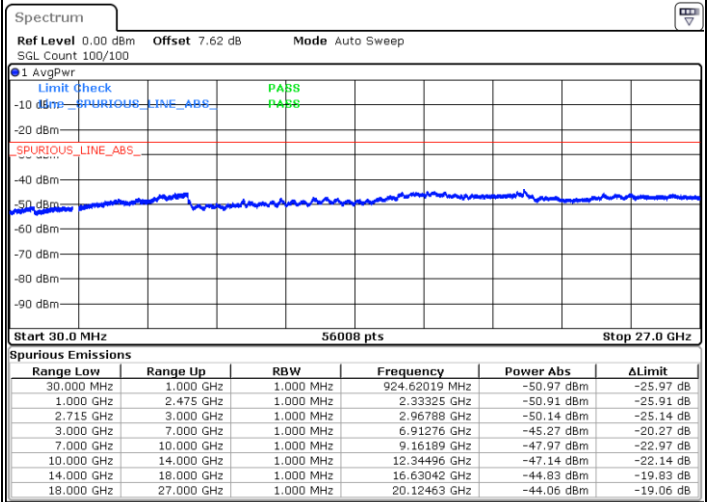
LTE Band 41 / 20MHz

Middle Channel / QPSK



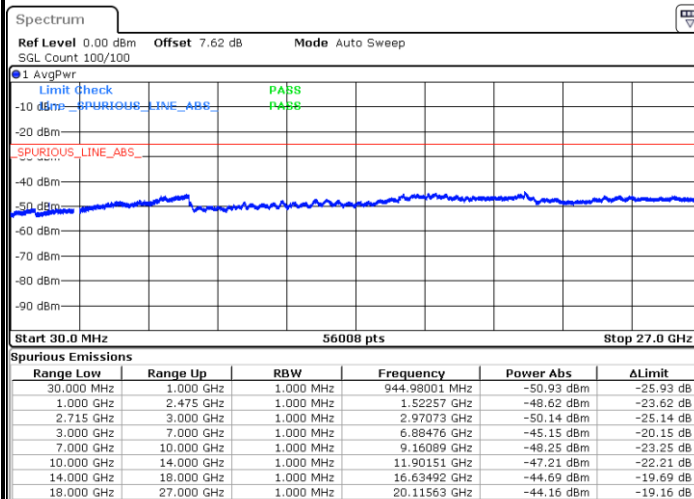
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Middle Channel / 16QAM



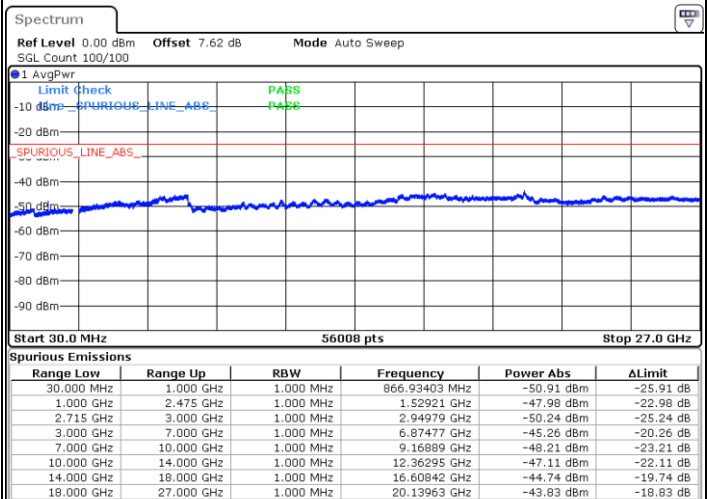
Date: 5 JUN 2018 19:24:34

Highest Channel / QPSK



Date: 5 JUN 2018 19:28:14

Highest Channel / 16QAM

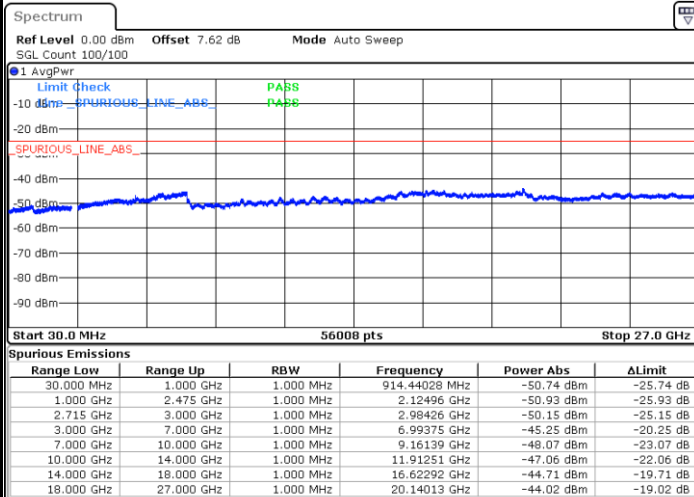


Date: 5 JUN 2018 19:27:23



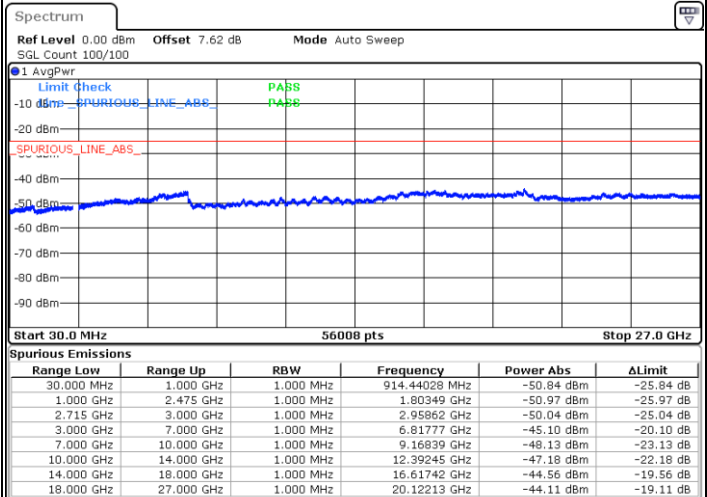
LTE Band 41 / 5MHz

Lowest Channel / 64QAM



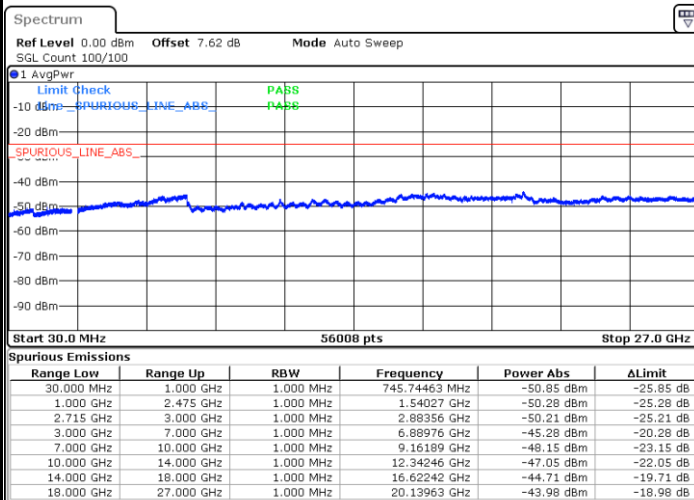
Date: 5 JUN 2018 17:37:58

Middle Channel / 64QAM



Date: 5 JUN 2018 17:38:45

Highest Channel / 64QAM

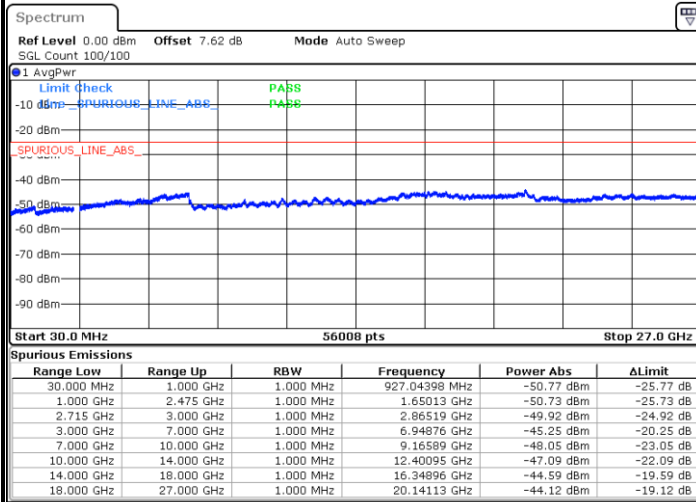


Date: 5 JUN 2018 17:43:38



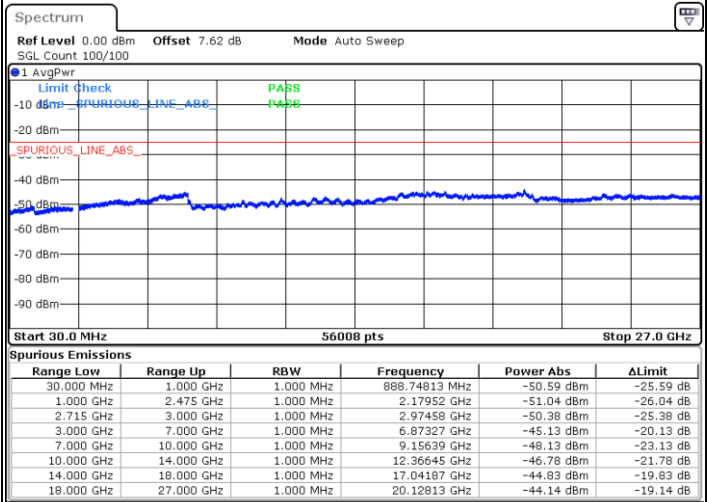
LTE Band 41 / 10MHz

Lowest Channel / 64QAM



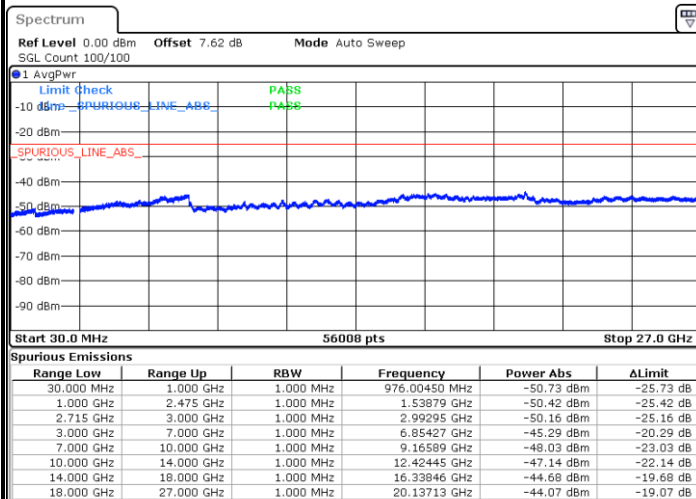
Date: 5 JUN 2018 17:47:08

Middle Channel / 64QAM



Date: 5 JUN 2018 17:47:56

Highest Channel / 64QAM

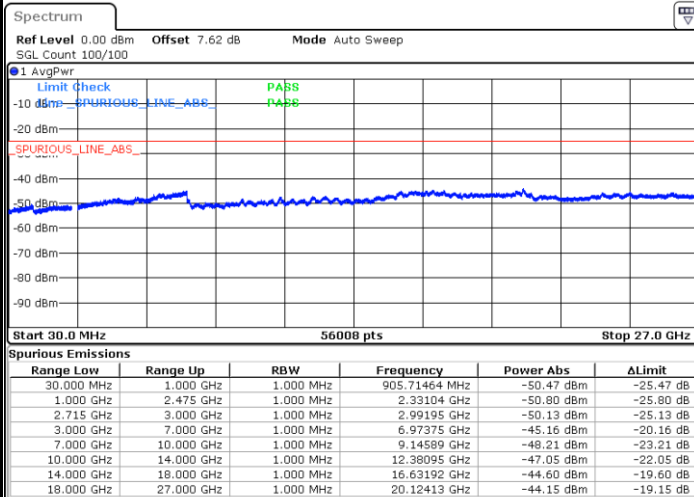


Date: 5 JUN 2018 17:52:29



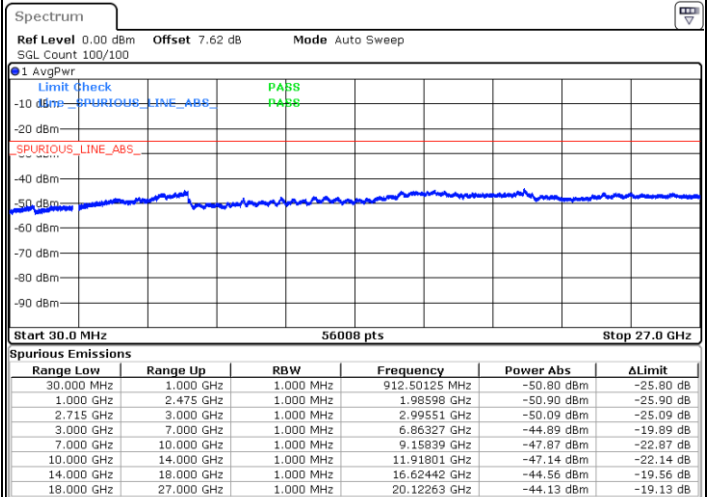
LTE Band 41 / 15MHz

Lowest Channel / 64QAM



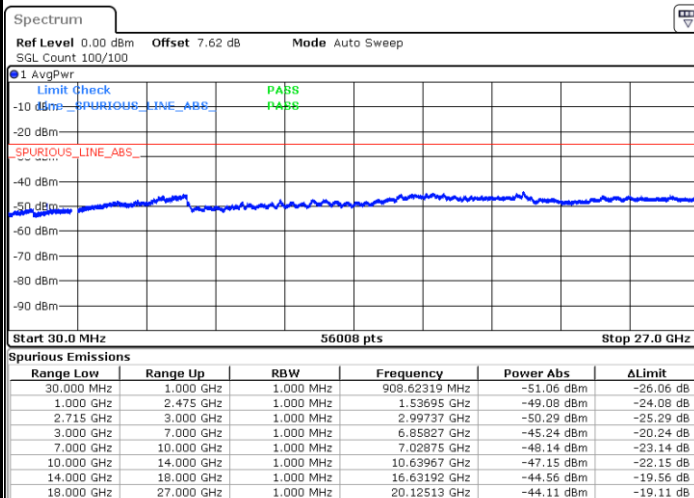
Date: 5 JUN 2018 18:33:12

Middle Channel / 64QAM



Date: 5 JUN 2018 18:35:46

Highest Channel / 64QAM

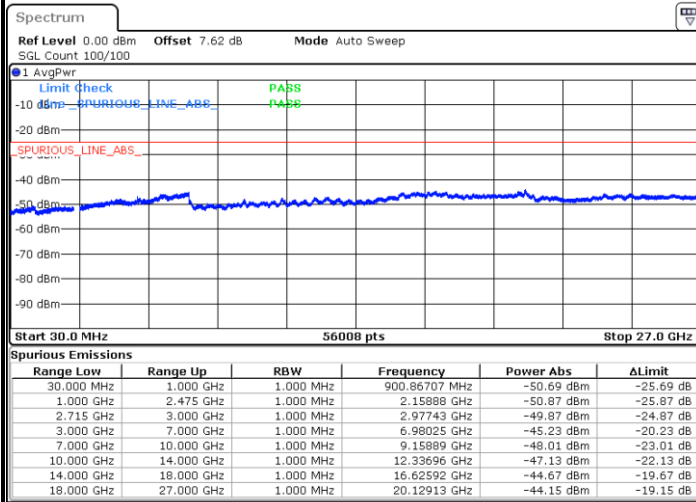


Date: 5 JUN 2018 18:36:44



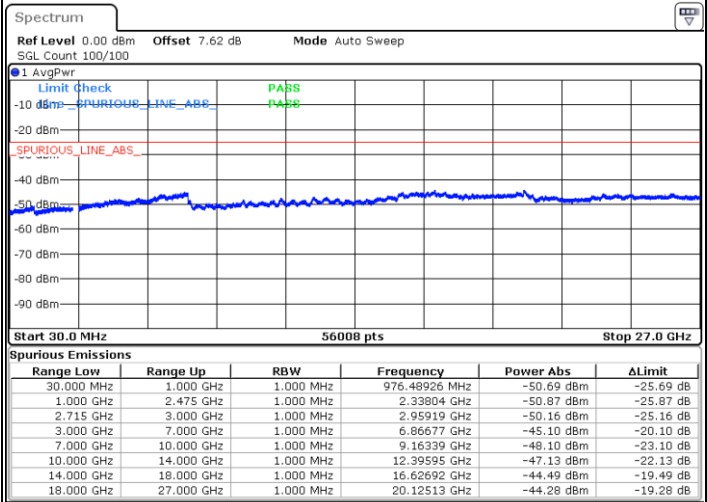
LTE Band 41 / 20MHz

Lowest Channel / 64QAM



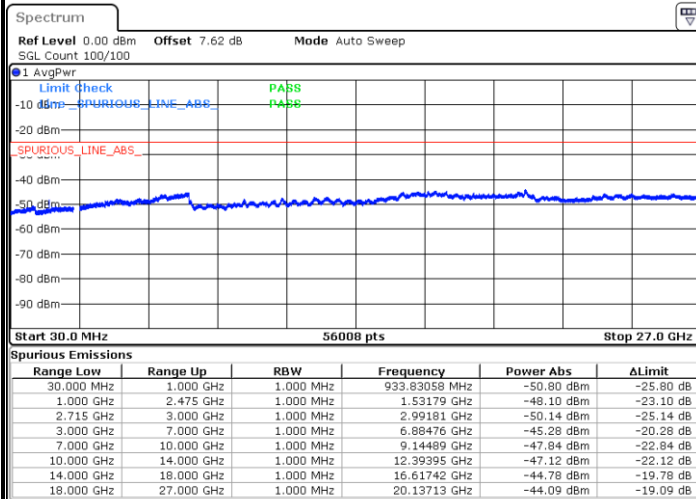
Date: 5 JUN 2018 19:22:41

Middle Channel / 64QAM



Date: 5 JUN 2018 19:25:32

Highest Channel / 64QAM



Date: 5 JUN 2018 19:26:24

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0003	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.3 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	0.0027	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0026	

Note:

1. Normal Voltage =3.8V. ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.3 V.
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	0.0040	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0090	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0061	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0074	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0072	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 25 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0029	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0029	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.8V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0092	PASS
40	Normal Voltage	0.0081	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0086	
0	Normal Voltage	0.0079	
-10	Normal Voltage	0.0029	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0080	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0019	
20	Battery End Point	0.0084	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0022	
20	Battery End Point	0.0000	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.3 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 26 / 15MHz / 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)
Lowest	1650	-49.22	-13	-36.22	-50.59	2.28	5.80	H
	2474	-53.80	-13	-40.80	-55.71	2.84	6.90	H
	3300	-60.35	-13	-47.35	-62.41	3.29	7.50	H
	1650	-46.26	-13	-33.26	-47.63	2.28	5.80	V
	2474	-52.54	-13	-39.54	-54.45	2.84	6.90	V
	3300	-59.93	-13	-46.93	-61.99	3.29	7.50	V
Middle	1660	-50.54	-13	-37.54	-51.91	2.28	5.80	H
	2490	-53.23	-13	-40.23	-55.14	2.84	6.90	H
	3318	-59.60	-13	-46.60	-61.66	3.29	7.50	H
	1660	-46.99	-13	-33.99	-48.36	2.28	5.80	V
	2490	-53.65	-13	-40.65	-55.56	2.84	6.90	V
	3318	-59.84	-13	-46.84	-61.90	3.29	7.50	V
Highest	1670	-49.94	-13	-36.94	-51.31	2.28	5.80	H
	2504	-52.34	-13	-39.34	-54.25	2.84	6.90	H
	3339	-60.09	-13	-47.09	-62.15	3.29	7.50	H
	1670	-45.18	-13	-32.18	-46.55	2.28	5.80	V
	2504	-51.68	-13	-38.68	-53.59	2.84	6.90	V
	3339	-59.80	-13	-46.80	-61.86	3.29	7.50	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)
Lowest	3423	-39.95	-13	-26.95	-44.17	3.37	7.59	H
	5133	-52.14	-13	-39.14	-57.33	4.20	9.39	H
	6843	-53.83	-13	-40.83	-60.58	4.92	11.67	H
	8556	-33.04	-13	-20.04	-41.31	5.53	13.80	H
	10269	-42.01	-13	-29.01	-47.85	6.19	12.03	H
	3423	-50.48	-13	-37.48	-54.70	3.37	7.59	V
	5133	-55.07	-13	-42.07	-60.26	4.20	9.39	V
	6843	-51.64	-13	-38.64	-58.39	4.92	11.67	V
	8555.45	-37.56	-13	-24.56	-45.83	5.53	13.80	V
	10269	-41.54	-13	-28.54	-47.38	6.19	12.03	V
Middle	3447	-40.73	-13	-27.73	-44.95	3.37	7.59	H
	5170.77	-55.89	-13	-42.89	-61.08	4.20	9.39	H
	6894	-53.69	-13	-40.69	-60.44	4.92	11.67	H
	8619	-48.28	-13	-35.28	-56.55	5.53	13.80	H
	3447	-46.22	-13	-33.22	-50.44	3.37	7.59	V
	5170.77	-55.81	-13	-42.81	-61.00	4.20	9.39	V
	6894	-51.53	-13	-38.53	-58.28	4.92	11.67	V
	8619	-49.95	-13	-36.95	-58.22	5.53	13.80	V
Highest	3471	-39.05	-13	-26.05	-43.27	3.37	7.59	H
	5208	-54.44	-13	-41.44	-59.63	4.20	9.39	H
	6945	-53.46	-13	-40.46	-60.21	4.92	11.67	H
	8679	-39.69	-13	-26.69	-47.96	5.53	13.80	H
	10413	-50.92	-13	-37.92	-56.76	6.19	12.03	H
	3471	-46.39	-13	-33.39	-50.61	3.37	7.59	V
	5208	-55.79	-13	-42.79	-60.98	4.20	9.39	V
	6945	-53.54	-13	-40.54	-60.29	4.92	11.67	V
	8679	-41.85	-13	-28.85	-50.12	5.53	13.80	V
	10413	-50.13	-13	-37.13	-55.97	6.19	12.03	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)
Lowest	5000	-47.81	-25	-22.81	-53.82	4.20	10.21	H
	7505	-55.22	-25	-30.22	-62.08	5.12	11.98	H
	10008	-45.30	-25	-20.30	-52.34	5.86	12.90	H
	5000	-54.02	-25	-29.02	-60.03	4.20	10.21	V
	7505	-55.81	-25	-30.81	-62.67	5.12	11.98	V
	10008	-48.61	-25	-23.61	-55.65	5.86	12.90	V
Middle	5052	-49.38	-25	-24.38	-55.39	4.20	10.21	H
	7580	-53.03	-25	-28.03	-59.89	5.12	11.98	H
	10107	-40.79	-25	-15.79	-47.83	5.86	12.90	H
	5052	-54.98	-25	-29.98	-60.99	4.20	10.21	V
	7576	-46.53	-25	-21.53	-53.39	5.12	11.98	V
	10107	-45.72	-25	-20.72	-52.76	5.86	12.90	V
Highest	5100	-49.40	-25	-24.40	-55.41	4.20	10.21	H
	7652	-48.45	-25	-23.45	-55.31	5.12	11.98	H
	10206	-44.69	-25	-19.69	-51.73	5.86	12.90	H
	5100	-52.52	-25	-27.52	-58.53	4.20	10.21	V
	7652	-56.11	-25	-31.11	-62.97	5.12	11.98	V
	10206	-47.60	-25	-22.60	-54.64	5.86	12.90	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)
Lowest	1400	-35.15	-13	-22.15	-35.50	2.08	4.58	H
	2098	-53.11	-13	-40.11	-54.50	2.57	6.10	H
	2798	-59.10	-13	-46.10	-61.00	2.98	7.03	H
	1400	-45.85	-13	-32.85	-46.20	2.08	4.58	V
	2098	-56.07	-13	-43.07	-57.46	2.57	6.10	V
	2798	-57.52	-13	-44.52	-59.42	2.98	7.03	V
Middle	1406	-34.47	-13	-21.47	-34.82	2.08	4.58	H
	2110	-52.85	-13	-39.85	-54.24	2.57	6.10	H
	2812	-59.03	-13	-46.03	-60.93	2.98	7.03	H
	1406	-43.51	-13	-30.51	-43.86	2.08	4.58	V
	2110	-57.53	-13	-44.53	-58.92	2.57	6.10	V
	2812	-58.14	-13	-45.14	-60.04	2.98	7.03	V
Highest	1414	-35.90	-13	-22.90	-36.25	2.08	4.58	H
	2120	-53.25	-13	-40.25	-54.64	2.57	6.10	H
	2826	-59.02	-13	-46.02	-60.92	2.98	7.03	H
	1414	-45.47	-13	-32.47	-45.82	2.08	4.58	V
	2120	-57.58	-13	-44.58	-58.97	2.57	6.10	V
	2826	-58.66	-13	-45.66	-60.56	2.98	7.03	V

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



LTE Band 13 / 5MHz / 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)
Lowest	1554	-43.85	-13	-30.85	-48.80	1.17	6.12	H
	2332	-57.87	-13	-44.87	-59.77	1.48	5.53	H
	3108	-60.23	-13	-47.23	-63.68	1.71	7.31	H
	1554	-46.27	-13	-33.27	-51.22	1.17	6.12	V
	2332	-59.66	-13	-46.66	-61.56	1.48	5.53	V
	3108	-59.92	-13	-46.92	-63.37	1.71	7.31	V
Middle	1560	-42.12	-40	-2.12	-47.07	1.17	6.12	H
	2340	-58.82	-13	-45.82	-60.72	1.48	5.53	H
	3120	-59.85	-13	-46.85	-63.30	1.71	7.31	H
	1560	-43.48	-40	-3.48	-48.43	1.17	6.12	V
	2340	-59.29	-13	-46.29	-61.19	1.48	5.53	V
	3120	-59.45	-13	-46.45	-62.90	1.71	7.31	V
Highest	1564	-43.10	-40	-3.10	-48.05	1.17	6.12	H
	2346	-59.11	-13	-46.11	-61.01	1.48	5.53	H
	3129	-60.23	-13	-47.23	-63.68	1.71	7.31	H
	1564	-44.07	-40	-4.07	-49.02	1.17	6.12	V
	2346	-58.48	-13	-45.48	-60.38	1.48	5.53	V
	3129	-60.15	-13	-47.15	-63.60	1.71	7.31	V

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

LTE Band 13 / 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	1554	-41.81	-13	-28.81	-43.52	2.23	6.09	H
	2332	-58.23	-13	-45.23	-58.76	2.83	5.51	H
	3111	-59.63	-13	-46.63	-61.57	3.21	7.30	H
	1554	-45.10	-13	-32.10	-46.81	2.23	6.09	V
	2332	-59.31	-13	-46.31	-59.84	2.83	5.51	V
	3111	-59.49	-13	-46.49	-61.43	3.21	7.30	V

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



LTE Band 25 / 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)
Lowest	3702	-54.24	-13	-41.24	-57.74	3.60	7.10	H
	5553	-40.26	-13	-27.26	-46.24	4.42	10.40	H
	7404	-37.10	-13	-24.10	-43.91	5.13	11.94	H
	9252	-45.52	-13	-32.52	-52.74	5.78	13.00	H
	3702	-50.52	-13	-37.52	-54.02	3.60	7.10	V
	5553	-34.68	-13	-21.68	-40.66	4.42	10.40	V
	7404	-36.77	-13	-23.77	-43.58	5.13	11.94	V
	9252	-41.54	-13	-28.54	-48.76	5.78	13.00	V
Middle	3741	-53.21	-13	-40.21	-56.71	3.60	7.10	H
	5613	-48.71	-13	-35.71	-54.69	4.42	10.40	H
	7485	-38.29	-13	-25.29	-45.10	5.13	11.94	H
	9351	-47.01	-13	-34.01	-54.23	5.78	13.00	H
	3741	-49.00	-13	-36.00	-52.50	3.60	7.10	V
	5613	-44.20	-13	-31.20	-50.18	4.42	10.40	V
	7485	-37.36	-13	-24.36	-44.17	5.13	11.94	V
	9351	-44.09	-13	-31.09	-51.31	5.78	13.00	V
Highest	3792	-52.57	-13	-39.57	-56.07	3.60	7.10	H
	5688	-44.70	-13	-31.70	-50.68	4.42	10.40	H
	7584	-39.03	-13	-26.03	-45.84	5.13	11.94	H
	9477	-51.42	-13	-38.42	-58.64	5.78	13.00	H
	3792	-54.17	-13	-41.17	-57.67	3.60	7.10	V
	5688	-41.17	-13	-28.17	-47.15	4.42	10.40	V
	7584	-37.63	-13	-24.63	-44.44	5.13	11.94	V
	9477	-47.19	-13	-34.19	-54.41	5.78	13.00	V

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



LTE Band 41 / 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)
Lowest	4995	-52.58	-25	-27.58	-58.59	4.20	10.21	H
	7490	-41.49	-25	-16.49	-48.35	5.12	11.98	H
	9990	-41.53	-25	-16.53	-48.57	5.86	12.90	H
	12483	-45.78	-25	-20.78	-52.66	6.91	13.78	H
	14985	-49.57	-25	-24.57	-56.23	7.55	14.21	H
	17478	-50.51	-25	-25.51	-55.89	8.29	13.67	H
	4995	-53.45	-25	-28.45	-59.46	4.20	10.21	V
	7490	-42.64	-25	-17.64	-49.50	5.12	11.98	V
	9990	-45.36	-25	-20.36	-52.40	5.86	12.90	V
	12483	-46.46	-25	-21.46	-53.34	6.91	13.78	V
	14985	-52.91	-25	-27.91	-59.57	7.55	14.21	V
	17478	-50.50	-25	-25.50	-55.88	8.29	13.67	V
Middle	5168	-52.67	-25	-27.67	-58.68	4.20	10.21	H
	7752	-40.02	-25	-15.02	-46.88	5.12	11.98	H
	10332	-54.44	-25	-29.44	-61.48	5.86	12.90	H
	12924	-52.99	-25	-27.99	-59.87	6.91	13.78	H
	5168	-53.75	-25	-28.75	-59.76	4.20	10.21	V
	7752	-42.26	-25	-17.26	-49.12	5.12	11.98	V
	10332	-55.57	-25	-30.57	-62.61	5.86	12.90	V
	12924	-56.75	-25	-31.75	-63.63	6.91	13.78	V
Highest	5340	-57.94	-25	-32.94	-63.95	4.20	10.21	H
	8012	-42.04	-25	-17.04	-48.90	5.12	11.98	H
	10683	-53.85	-25	-28.85	-60.89	5.86	12.90	H
	13356	-51.42	-25	-26.42	-58.30	6.91	13.78	H
	16029	-53.15	-25	-28.15	-59.81	7.55	14.21	H
	5340	-59.86	-25	-34.86	-65.87	4.20	10.21	V
	8012	-40.50	-25	-15.50	-47.36	5.12	11.98	V
	10683	-55.92	-25	-30.92	-62.96	5.86	12.90	V
	13356	-55.97	-25	-30.97	-62.85	6.91	13.78	V
	16029	-57.36	-25	-32.36	-64.02	7.55	14.21	V

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