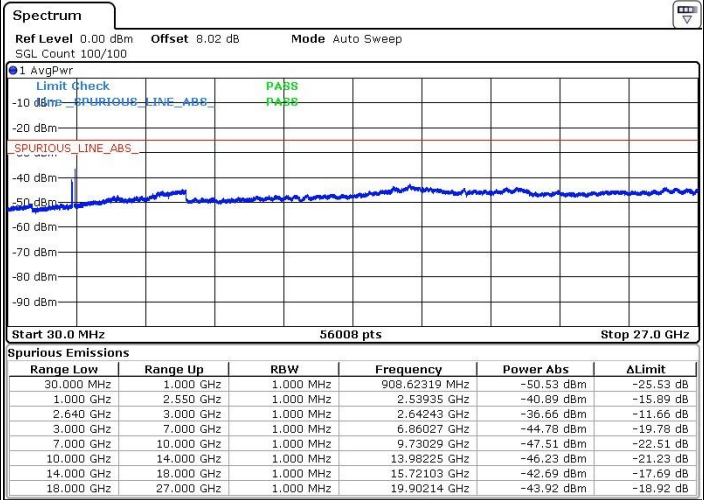
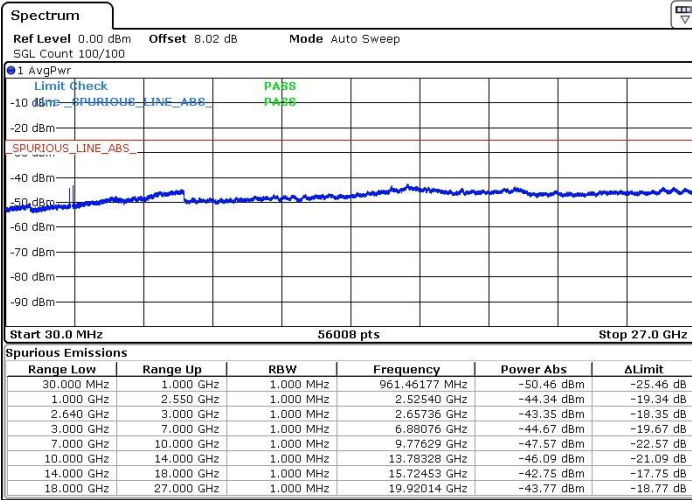




LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

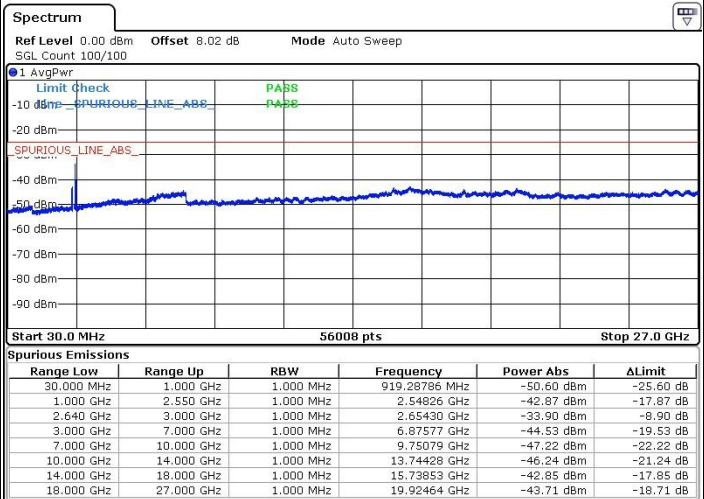
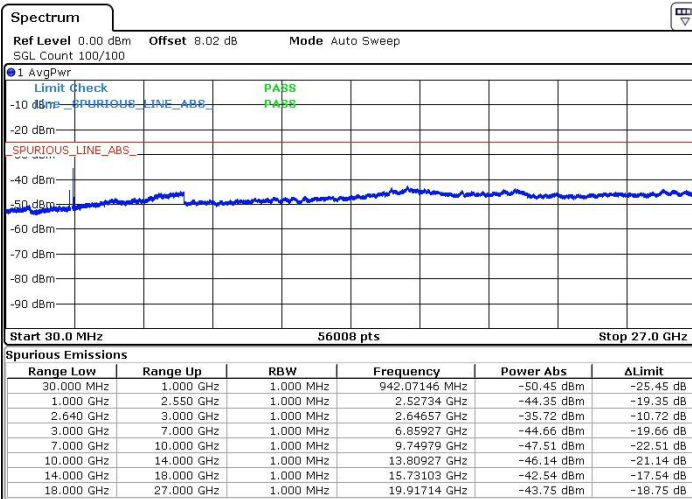


Date: 12.NOV.2018 12:49:04

Date: 12.NOV.2018 12:48:15

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 12.NOV.2018 12:43:15

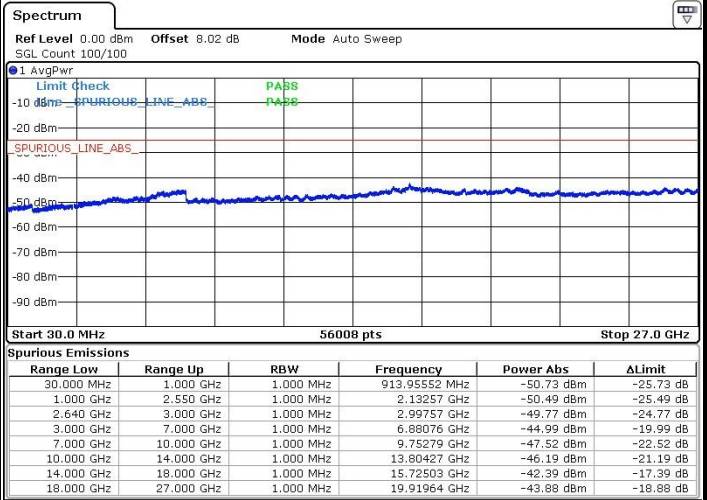
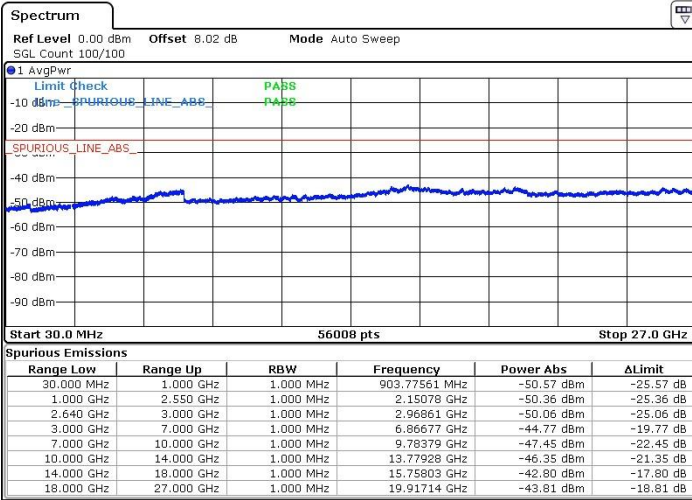
Date: 12.NOV.2018 12:45:08



LTE Band 38 / 5MHz

Lowest Channel / 64QAM

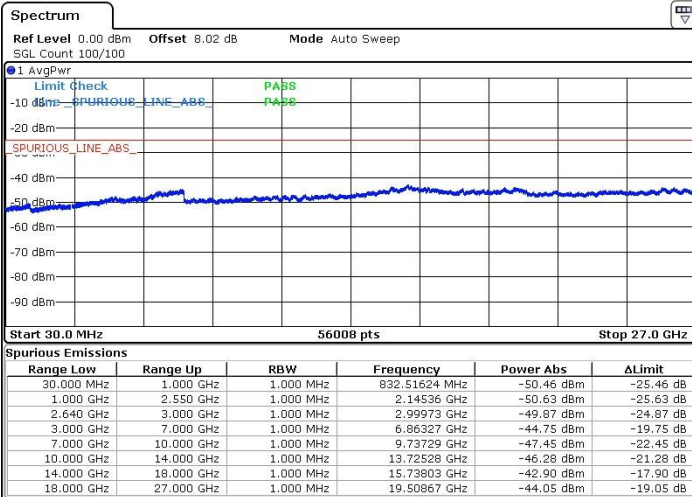
Middle Channel / 64QAM



Date: 12.NOV.2018 13:00:29

Date: 12.NOV.2018 13:01:18

Highest Channel / 64QAM



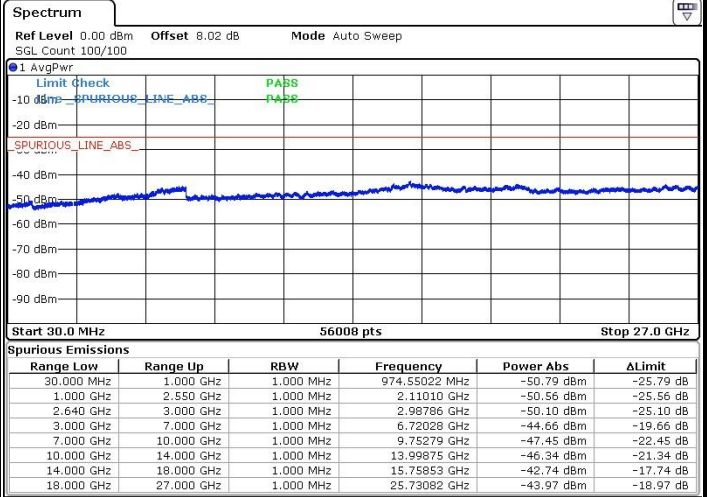
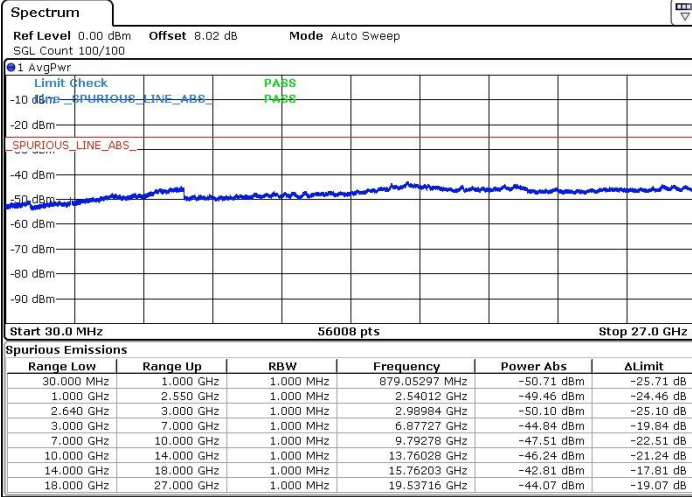
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LTE Band 38 / 10MHz

Lowest Channel / 64QAM

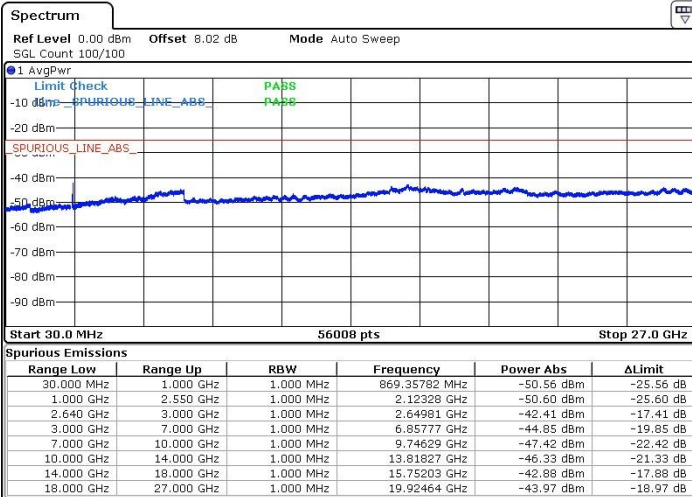
Middle Channel / 64QAM



Date: 12.NOV.2018 13:18:05

Date: 12.NOV.2018 13:18:55

Highest Channel / 64QAM



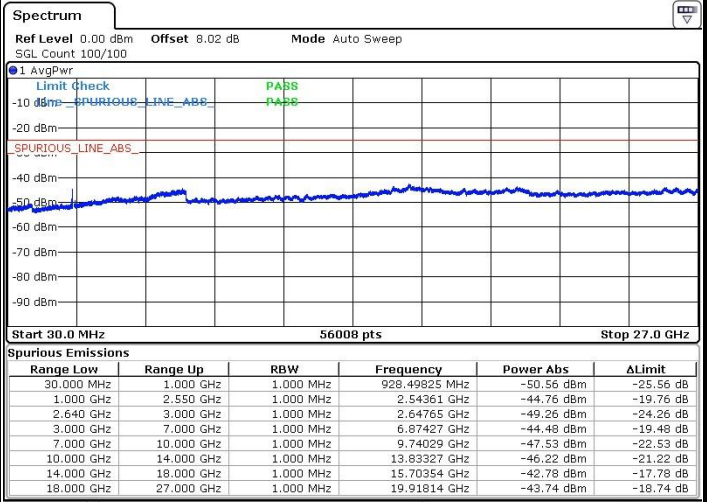
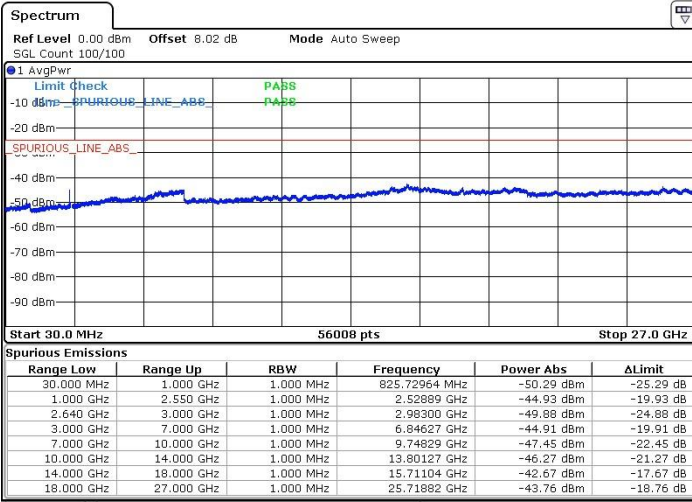
Date: 12.NOV.2018 13:23:23



LTE Band 38 / 15MHz

Lowest Channel / 64QAM

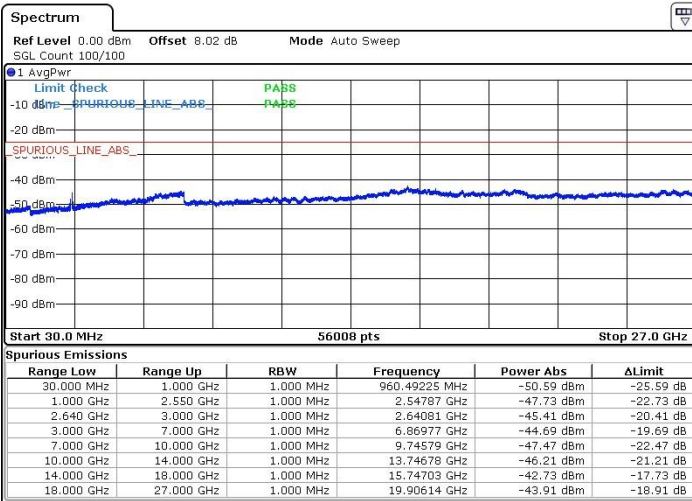
Middle Channel / 64QAM



Date: 12.NOV.2018 11:19:05

Date: 12.NOV.2018 11:20:27

Highest Channel / 64QAM



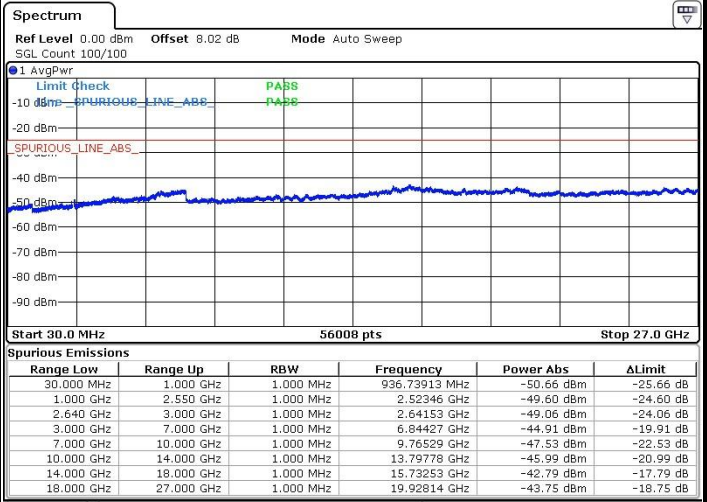
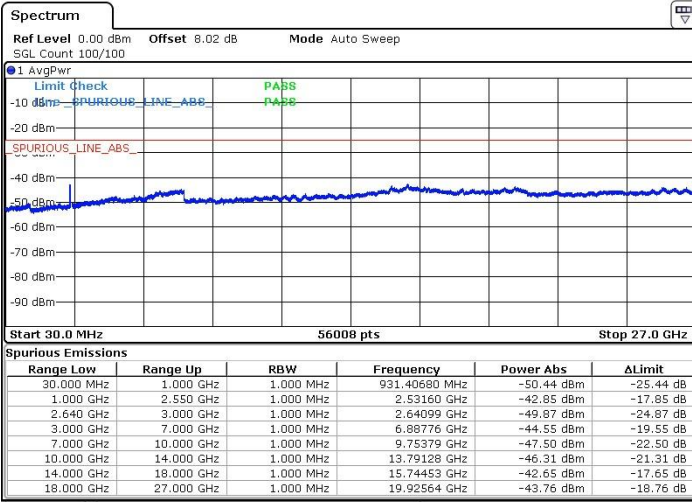
Date: 12.NOV.2018 11:25:59



LTE Band 38 / 20MHz

Lowest Channel / 64QAM

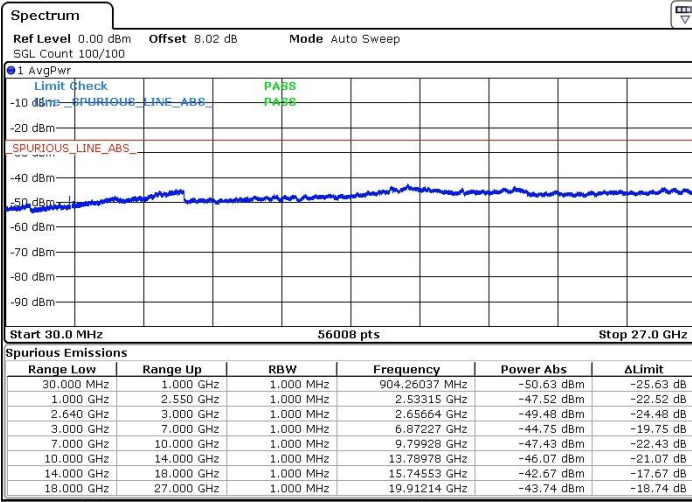
Middle Channel / 64QAM



Date: 12.NOV.2018 12:51:34

Date: 12.NOV.2018 12:47:17

Highest Channel / 64QAM



Date: 12.NOV.2018 12:46:26



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	0.0012	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0001	
20	Battery End Point	0.0022	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 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	0.0007	PASS
40	Normal Voltage	0.0031	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0029	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0021	
20	Battery End Point	0.0028	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 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	0.0002	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0053	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0060	
20	Battery End Point	0.0012	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 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	0.0023	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	0.0020	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0027	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 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	-43.23	-13	-30.23	-49.80	1.848	8.42	H
	5613	-38.80	-13	-25.80	-47.16	2.32	10.68	H
	7485	-43.44	-13	-30.44	-52.77	2.61	11.94	H
	3741	-46.25	-13	-33.25	-52.82	1.85	8.42	V
	5613	-47.25	-13	-34.25	-55.61	2.32	10.68	V
	7485	-45.31	-13	-32.31	-54.64	2.61	11.94	V

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

LTE Band 4 / 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	3456	-40.32	-13	-27.32	-46.64	1.81	8.13	H
	5184	-53.62	-13	-40.62	-61.60	2.222	10.2	H
	6912	-43.68	-13	-30.68	-52.50	2.54	11.36	H
	3456	-36.79	-13	-23.79	-43.11	1.81	8.13	V
	5184	-54.48	-13	-41.48	-62.46	2.222	10.20	V
	6912	-43.70	-13	-30.70	-52.52	2.54	11.36	V

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



LTE Band 5 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664	-59.57	-13	-46.57	-61.90	1.21	5.68	H
	2496.27	-54.15	-13	-41.15	-56.26	1.54	5.80	H
	3327	-59.71	-13	-46.71	-63.71	1.73	7.88	H
	1664	-59.26	-13	-46.26	-61.59	1.21	5.68	V
	2496	-53.17	-13	-40.17	-55.28	1.54	5.80	V
	3327	-60.93	-13	-47.93	-64.93	1.73	7.88	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	-36.73	-25	-11.73	-44.76	2.18	10.21	H
	7580	-45.20	-25	-20.20	-54.51	2.69	12.00	H
	10104	-51.03	-25	-26.03	-60.74	3.19	12.90	H
	12630	-52.55	-25	-27.55	-62.05	3.94	13.44	H
	5052	-45.56	-25	-20.56	-53.59	2.18	10.21	V
	7576	-43.08	-25	-18.08	-52.39	2.69	12.00	V
	10104	-51.43	-25	-26.43	-61.14	3.19	12.90	V
	12630	-48.61	-25	-23.61	-58.11	3.94	13.44	V

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



LTE Band 38 / 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)
Middle	5176	-35.49	-25	-10.49	-43.52	2.18	10.21	H
	7765.02	-42.29	-25	-17.29	-51.60	2.69	12.00	H
	10352	-45.07	-25	-20.07	-54.78	3.19	12.90	H
	12942	-46.46	-25	-21.46	-55.99	4.05	13.58	H
	5176	-45.46	-25	-20.46	-53.49	2.18	10.21	V
	7764	-37.87	-25	-12.87	-47.18	2.69	12.00	V
	10352	-47.55	-25	-22.55	-57.26	3.19	12.90	V
	12942	-46.79	-25	-21.79	-56.32	4.05	13.58	V

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