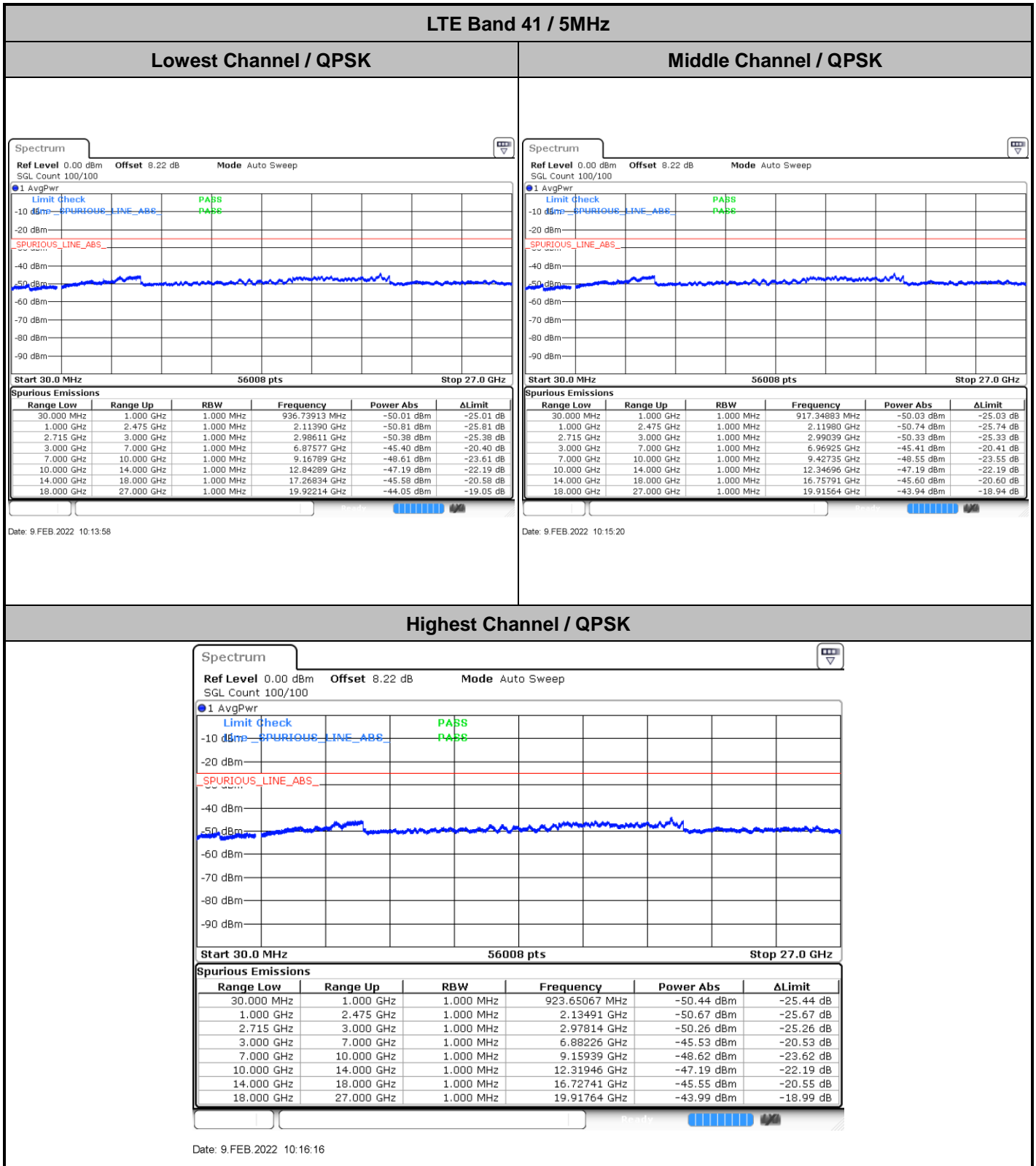




# Conducted Spurious Emission

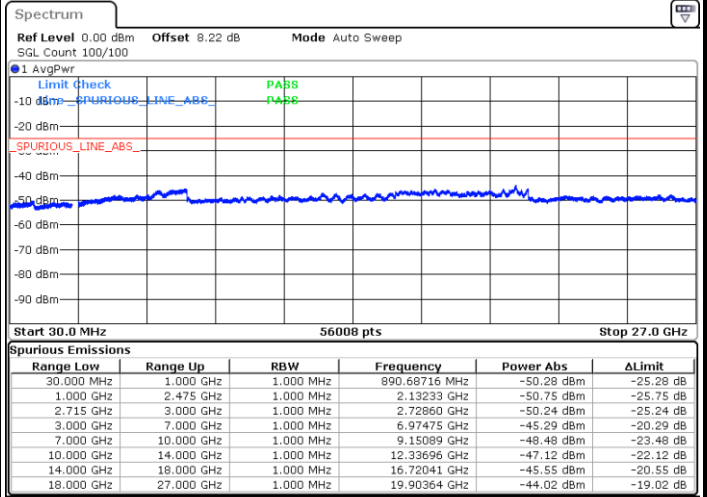
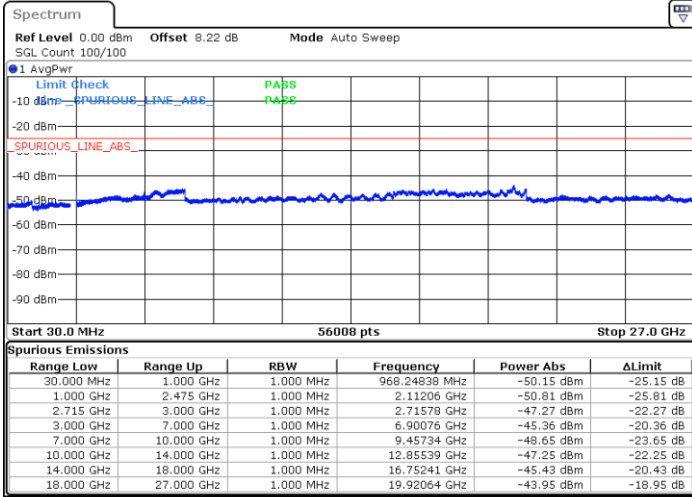




LTE Band 41 / 10MHz

Lowest Channel / QPSK

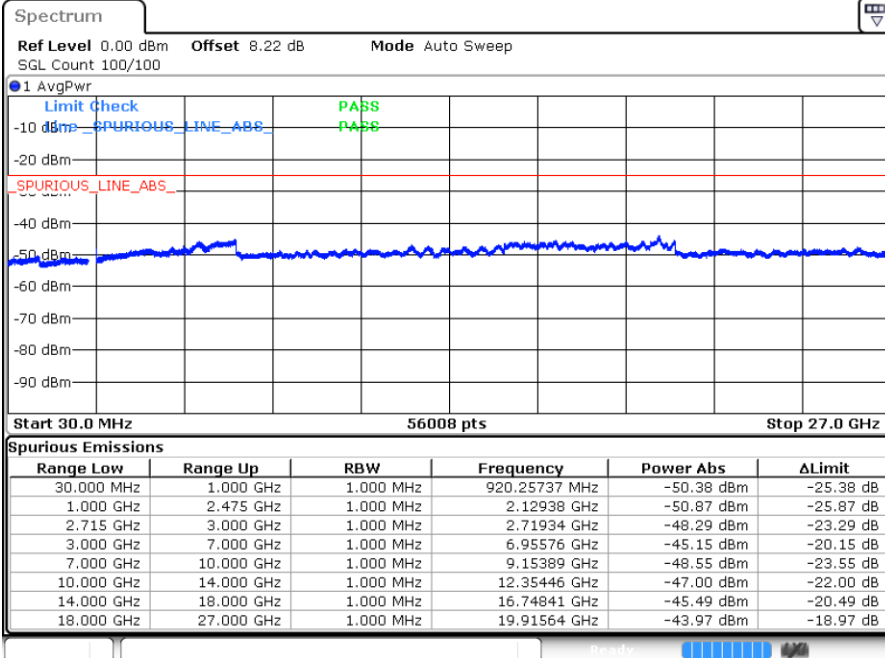
Middle Channel / QPSK



Date: 9.FEB.2022 10:24:38

Date: 9.FEB.2022 10:26:55

Highest Channel / QPSK



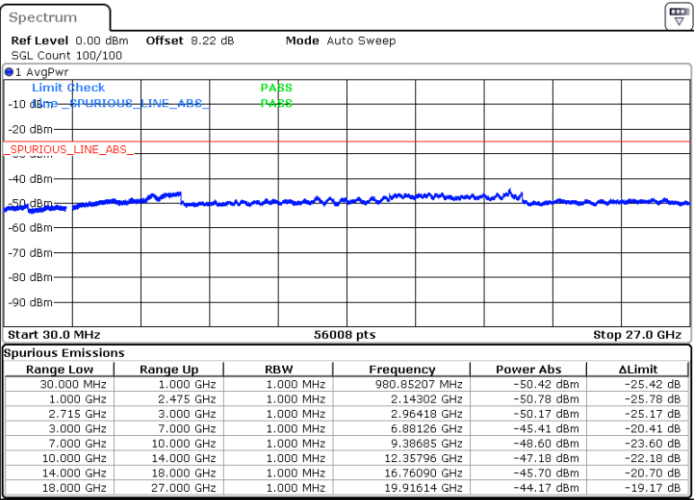
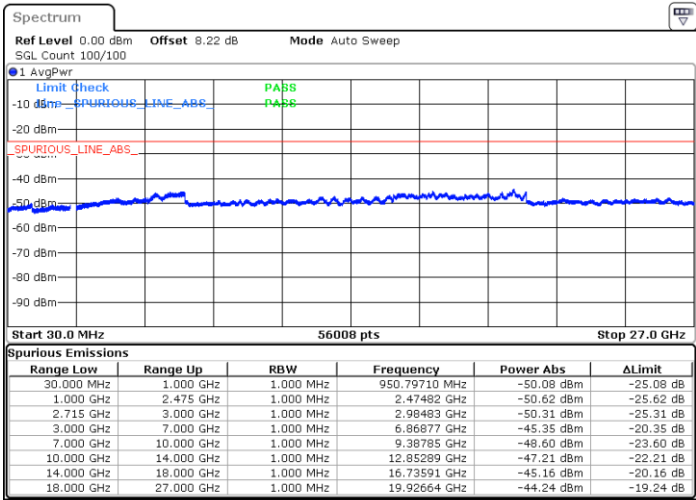
Date: 9.FEB.2022 10:27:42



LTE Band 41 / 15MHz

Lowest Channel / QPSK

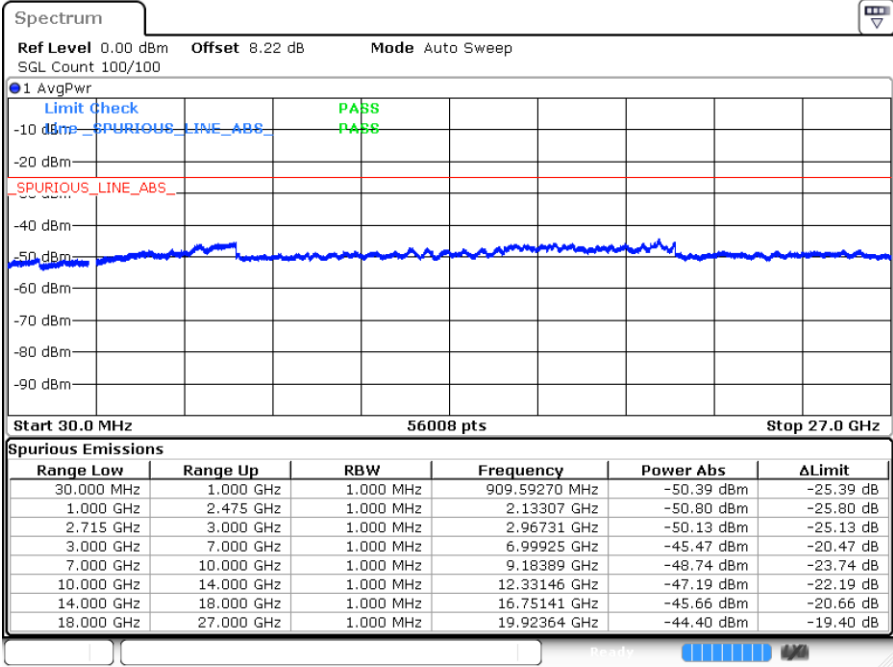
Middle Channel / QPSK



Date: 9.FEB.2022 11:59:53

Date: 9.FEB.2022 12:00:47

Highest Channel / QPSK



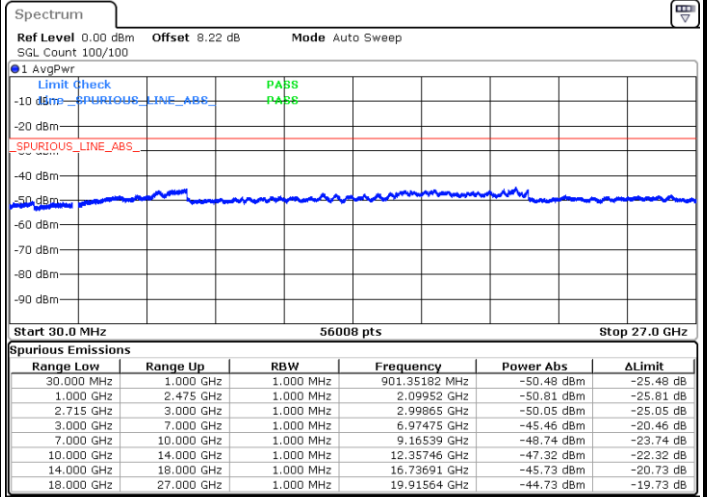
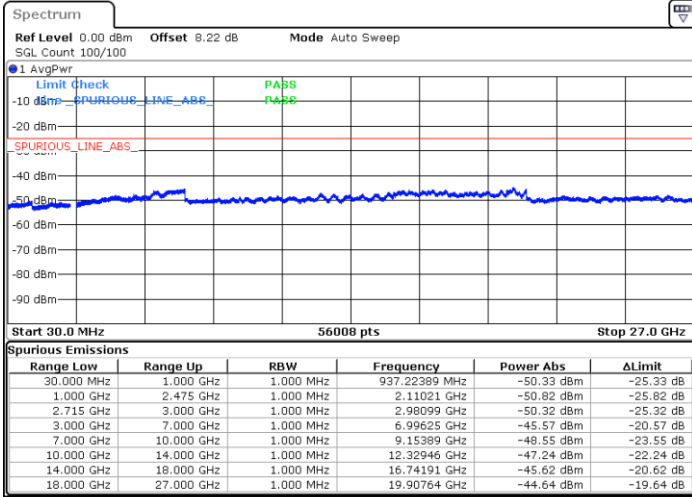
Date: 9.FEB.2022 12:01:32



LTE Band 41 / 20MHz

Lowest Channel / QPSK

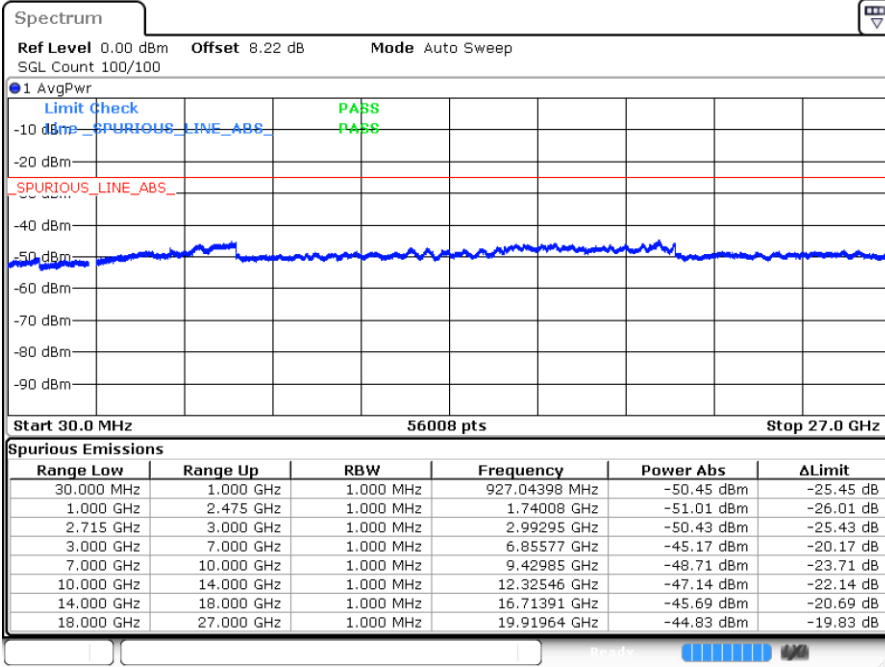
Middle Channel / QPSK



Date: 9.FEB.2022 12:07:56

Date: 9.FEB.2022 12:10:09

Highest Channel / QPSK



Date: 9.FEB.2022 12:10:53



### Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0008	
20	Battery End Point	0.0012	

**Note:**

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

Test Engineer :	Chris Chen	Temperature :	22~23°C
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for testing, we choose the worst antenna mode to test.

LTE Band 2 / 20MHz / QPSK for Ant.1								
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	3735	-47.85	-13	-34.85	-60.11	2.64	14.90	H
	5610	-54.15	-13	-41.15	-66.01	2.94	14.80	H
	7485	-51.78	-13	-38.78	-61.55	3.39	13.16	H
	3735	-48.33	-13	-35.33	-60.59	2.64	14.90	V
	5610	-54.96	-13	-41.96	-66.82	2.94	14.80	V
	7485	-51.60	-13	-38.60	-61.37	3.39	13.16	V

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

LTE Band 4 / 20MHz / QPSK for Ant.1								
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	3450	-54.96	-13	-41.96	-65.70	2.604	13.34	H
	5175	-54.17	-13	-41.17	-64.68	3.011	13.52	H
	6900	-52.84	-13	-39.84	-63.04	3.271	13.47	H
	3450	-56.55	-13	-43.55	-67.29	2.604	13.34	V
	5175	-54.30	-13	-41.30	-64.81	3.011	13.52	V
	6900	-53.61	-13	-40.61	-63.81	3.271	13.47	V

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



LTE Band 5 / 10MHz / QPSK for Ant.1								
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	-65.43	-13	-52.43	-72.40	1.58	10.70	H
	2496	-61.23	-13	-48.23	-69.48	2.102	12.50	H
	3328	-60.06	-13	-47.06	-68.95	2.856	13.90	H
	1664	-63.67	-13	-50.67	-70.64	1.58	10.70	V
	2496	-59.86	-13	-46.86	-68.11	2.10	12.50	V
	3328	-59.92	-13	-46.92	-68.81	2.86	13.90	V

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

LTE Band 7 / 20MHz / QPSK for Ant.1								
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	5050	-57.47	-25	-32.47	-67.68	3.03	13.24	H
	7584	-60.71	-25	-35.71	-70.16	3.56	13.01	H
	10104	-61.62	-25	-36.62	-71.14	3.92	13.44	H
	5050	-58.54	-25	-33.54	-68.75	3.03	13.24	V
	7584	-61.79	-25	-36.79	-71.24	3.56	13.01	V
	10104	-61.63	-25	-36.63	-71.15	3.92	13.44	V

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

LTE Band 41 / 20MHz / QPSK for Ant.1								
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	5162	-60.95	-25	-35.95	-71.16	3.03	13.24	H
	7752	-45.95	-25	-20.95	-55.40	3.56	13.01	H
	10342	-56.83	-25	-31.83	-66.35	3.92	13.44	H
	5162	-55.51	-25	-30.51	-65.72	3.03	13.24	V
	7752	-37.24	-25	-12.24	-46.69	3.56	13.01	V
	10342	-55.78	-25	-30.78	-65.30	3.92	13.44	V

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



LTE Band 7C_CA / 20MHz+20MHz / QPSK for Ant.1								
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	5050	-56.51	-25	-31.51	-66.72	3.03	13.24	H
	7584	-61.20	-25	-36.20	-70.65	3.56	13.01	H
	10104	-61.19	-25	-36.19	-70.71	3.92	13.44	H
	5050	-58.85	-25	-33.85	-69.06	3.03	13.24	V
	7584	-62.72	-25	-37.72	-72.17	3.56	13.01	V
	10104	-61.83	-25	-36.83	-71.35	3.92	13.44	V

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

LTE Band 38C_CA / 20MHz+20MHz / QPSK for Ant.1								
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	-61.80	-25	-36.80	-72.01	3.03	13.24	H
	7752	-52.94	-25	-27.94	-62.39	3.56	13.01	H
	10342	-61.31	-25	-36.31	-70.83	3.92	13.44	H
	5176	-57.58	-25	-32.58	-67.79	3.03	13.24	V
	7752	-42.03	-25	-17.03	-51.48	3.56	13.01	V
	10342	-61.47	-25	-36.47	-70.99	3.92	13.44	V

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