

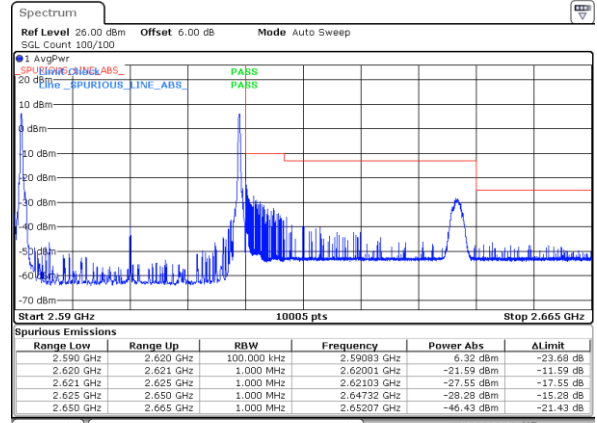
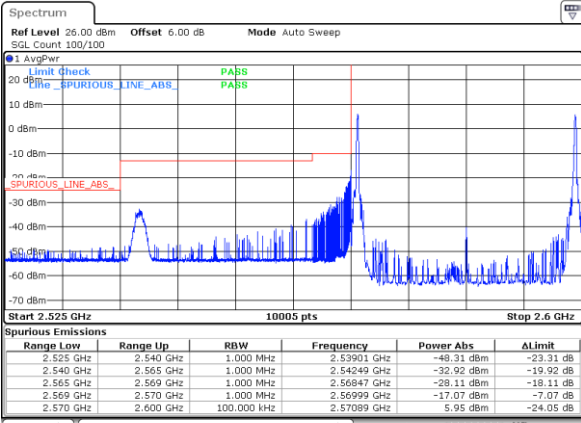


LTE Band 38C / 15MHz+15MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

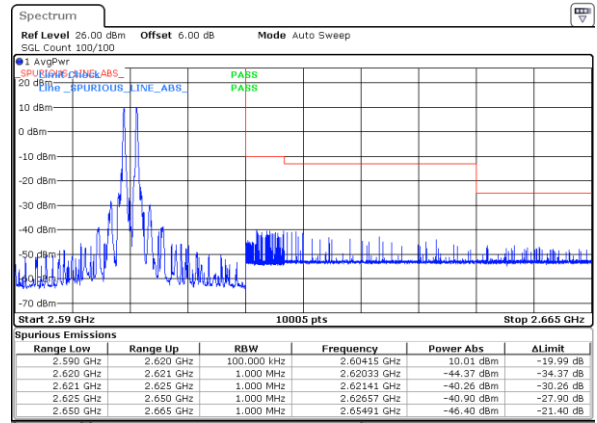
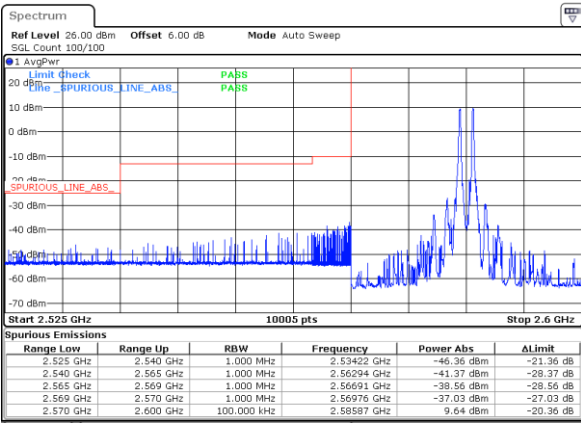


Date: 19.OCT.2023 15:42:56

Date: 19.OCT.2023 15:47:44

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

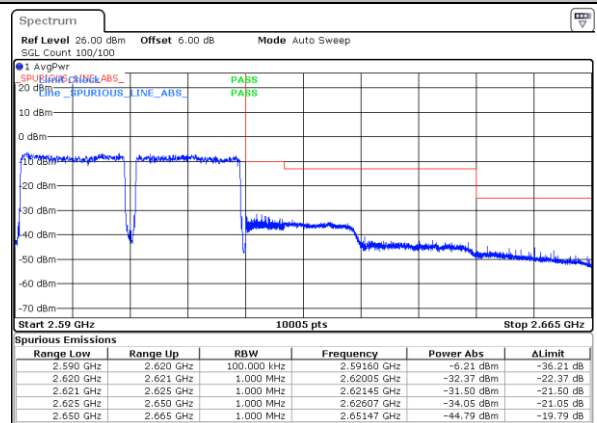
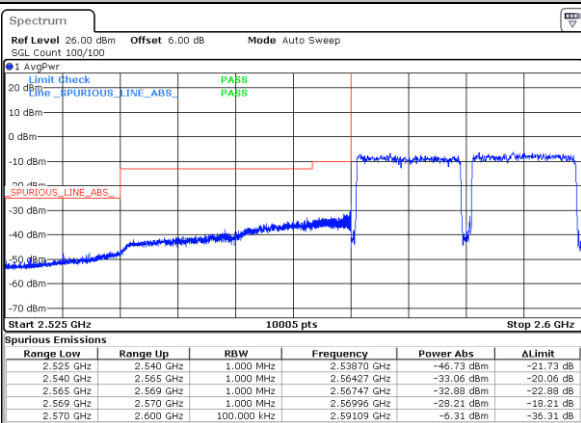


Date: 19.OCT.2023 15:44:55

Date: 19.OCT.2023 15:45:58

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2023 15:43:51

Date: 19.OCT.2023 15:46:51

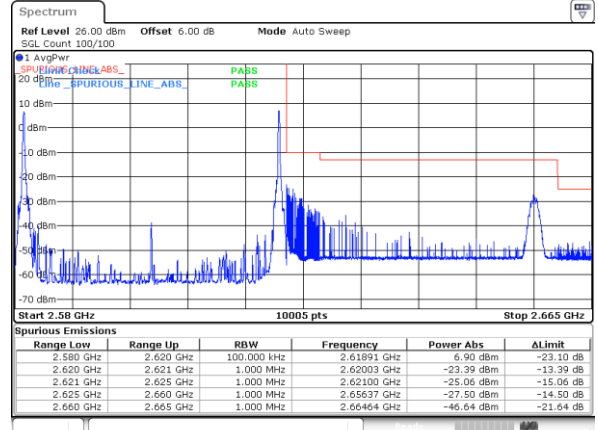
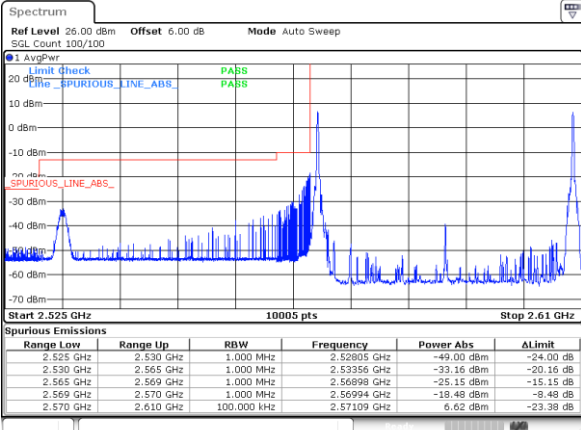


LTE Band 38C / 20MHz+20MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

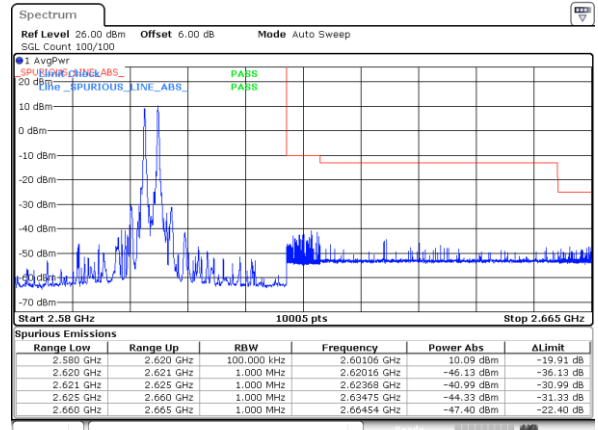
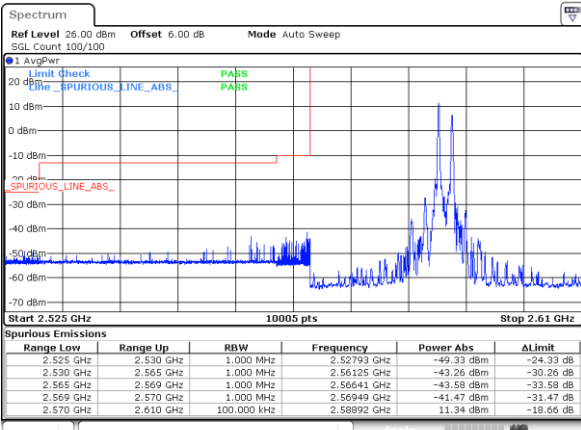


Date: 19.OCT.2023 15:50:00

Date: 19.OCT.2023 15:53:38

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

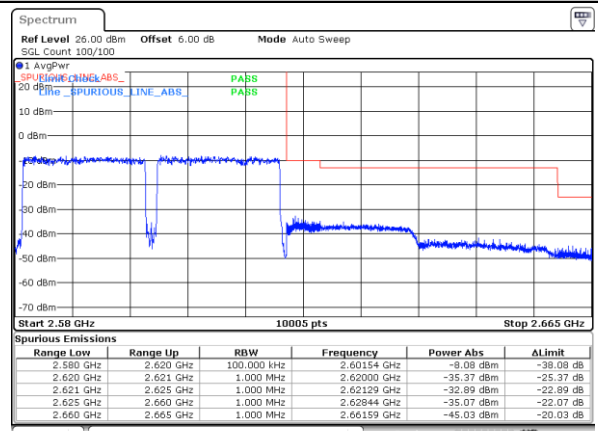
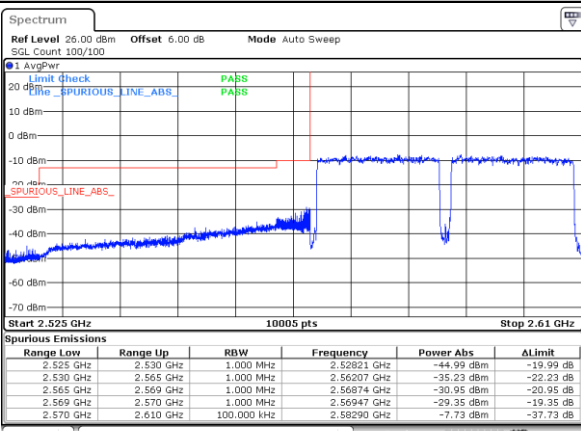


Date: 19.OCT.2023 15:51:48

Date: 19.OCT.2023 15:52:46

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2023 15:50:54

Date: 19.OCT.2023 15:54:31



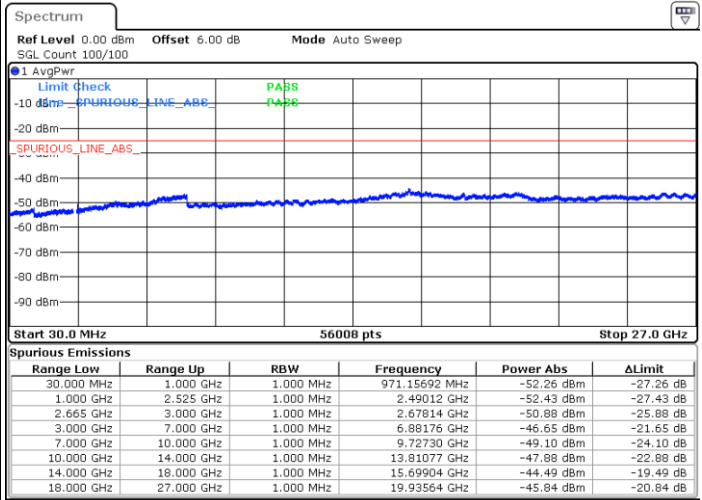
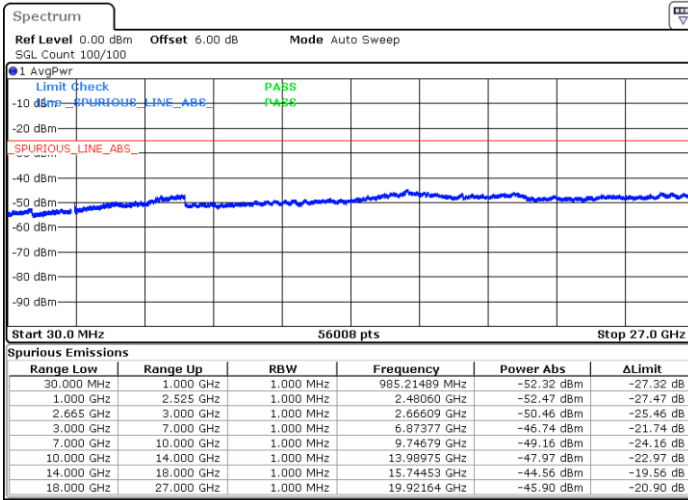
# Conducted Spurious Emission

## LTE Band 38C / 15MHz+15MHz

### QPSK

#### Lowest Channel / 1RB74 and 1RB0

#### Middle Channel / 1RB74 and 1RB0

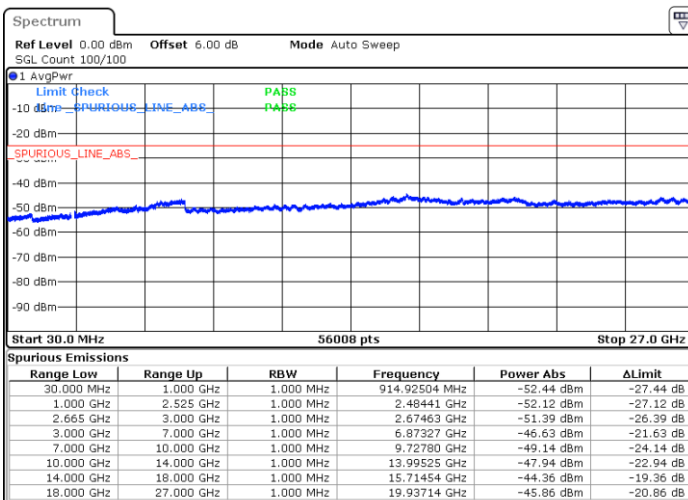


Date: 4.OCT.2023 22:19:05

Date: 4.OCT.2023 22:20:40

#### Highest Channel / 1RB74 and 1RB0

N/A



Date: 4.OCT.2023 22:12:17

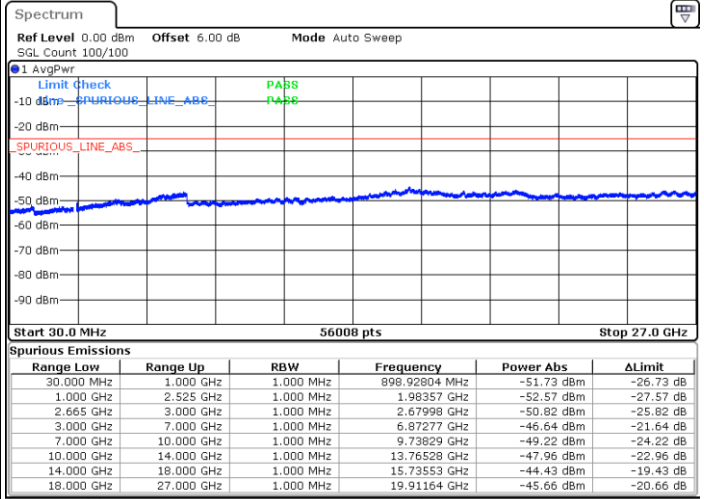
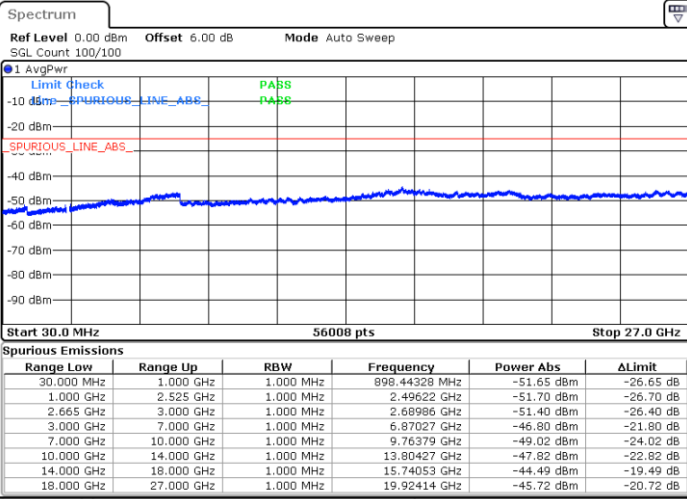


LTE Band 38C / 20MHz+20MHz

QPSK

Lowest Channel / 1RB99 and 1RB0

Middle Channel / 1RB99 and 1RB0

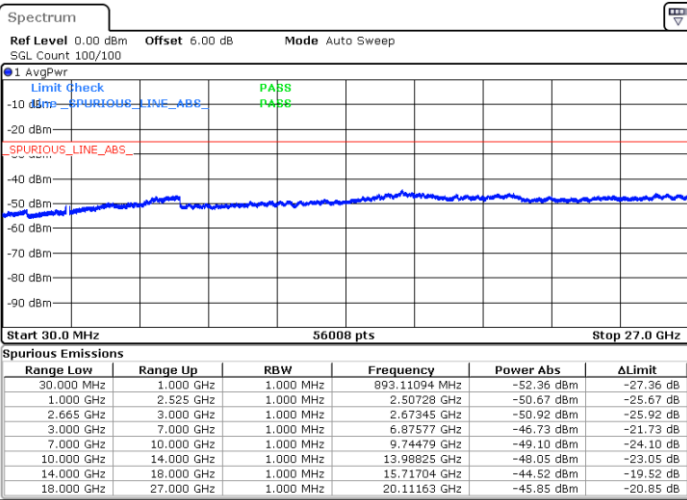


Date: 4.OCT.2023 23:19:03

Date: 4.OCT.2023 23:20:39

Highest Channel / 1RB99 and 1RB0

N/A



Date: 4.OCT.2023 23:22:15



### Frequency Stability

Test Conditions		LTE Band 38C (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 40MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0026	

**Note:**

1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.5 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 :	23~25°C
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

LTE Band 7 / 20MHz / QPSK_Ant0								
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	-61.50	-25	-36.50	-71.71	3.03	13.24	H
	7584	-62.91	-25	-37.91	-72.36	3.56	13.01	H
	10104	-61.90	-25	-36.90	-71.42	3.92	13.44	H
	5050	-63.56	-25	-38.56	-73.77	3.03	13.24	V
	7584	-61.91	-25	-36.91	-71.36	3.56	13.01	V
	10104	-61.78	-25	-36.78	-71.30	3.92	13.44	V

LTE Band 7C / 20MHz + 20MHz / QPSK_Ant0								
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)
(PCC) Middle	5036	-63.63	-25	-38.63	-73.84	3.03	13.24	H
	7542	-63.85	-25	-38.85	-73.30	3.56	13.01	H
	10062	-62.57	-25	-37.57	-72.09	3.92	13.44	H
	5036	-63.55	-25	-38.55	-73.76	3.03	13.24	V
	7542	-63.74	-25	-38.74	-73.19	3.56	13.01	V
	10062	-62.25	-25	-37.25	-71.77	3.92	13.44	V
(SCC) Middle	5078	-63.72	-25	-38.72	-73.93	3.03	13.24	H
	7612	-64.61	-25	-39.61	-74.06	3.56	13.01	H
	10146	-62.25	-25	-37.25	-71.77	3.92	13.44	H
	5078	-63.99	-25	-38.99	-74.20	3.03	13.24	V
	7612	-64.08	-25	-39.08	-73.53	3.56	13.01	V
	10146	-62.12	-25	-37.12	-71.64	3.92	13.44	V



LTE Band 38C / 20MHz + 20MHz / QPSK_Ant0								
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)
(PCC) Middle	5148	-44.19	-25	-19.19	-54.40	3.03	13.24	H
	7724	-54.86	-25	-29.86	-64.31	3.56	13.01	H
	10342	-50.94	-25	-25.94	-60.46	3.92	13.44	H
	5148	-52.19	-25	-27.19	-62.40	3.03	13.24	V
	7728	-60.65	-25	-35.65	-70.10	3.56	13.01	V
	10304	-60.42	-25	-35.42	-69.94	3.92	13.44	V
(SCC) Middle	5176	-43.76	-25	-18.76	-53.97	3.03	13.24	H
	7766	-52.05	-25	-27.05	-61.50	3.56	13.01	H
	10370	-49.55	-25	-24.55	-59.07	3.92	13.44	H
	5190	-54.16	-25	-29.16	-64.37	3.03	13.24	V
	7787	-61.14	-25	-36.14	-70.59	3.56	13.01	V
	10383	-60.51	-25	-35.51	-70.03	3.92	13.44	V

LTE Band 12 / 10MHz / QPSK_Ant0								
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	1408	-66.36	-13	-53.36	-73.33	1.58	10.70	H
	2112	-52.23	-13	-39.23	-60.48	2.102	12.50	H
	2808	-58.32	-13	-45.32	-67.21	2.856	13.90	H
	1408	-66.02	-13	-53.02	-72.99	1.58	10.70	V
	2112	-46.40	-13	-33.40	-54.65	2.10	12.50	V
	2808	-58.32	-13	-45.32	-67.21	2.86	13.90	V

LTE Band 13 / 10MHz / QPSK_Ant0								
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	1552	-65.33	-13	-52.33	-67.96	1.09	5.87	H
	2336	-53.25	-13	-40.25	-55.65	1.37	5.92	H
	3112	-58.99	-13	-45.99	-62.88	1.64	7.68	H
	1552	-64.48	-13	-51.48	-67.11	1.09	5.87	V
	2336	-49.10	-13	-36.10	-51.50	1.37	5.92	V
	3112	-58.64	-13	-45.64	-62.53	1.64	7.68	V



LTE Band 13 / 5MHz / QPSK_Ant0								
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	1560	-65.66	-42.15	-23.51	-68.29	1.09	5.87	H
	2336	-60.63	-13	-47.63	-63.03	1.37	5.92	H
	3120	-59.54	-13	-46.54	-63.43	1.64	7.68	H
	1560	-64.67	-42.15	-22.52	-67.30	1.09	5.87	V
	2336	-58.94	-13	-45.94	-61.34	1.37	5.92	V
	3120	-59.29	-13	-46.29	-63.18	1.64	7.68	V

LTE Band 41 / 20MHz / QPSK_Ant0								
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	-60.21	-25	-35.21	-70.42	3.03	13.24	H
	7752	-62.54	-25	-37.54	-71.99	3.56	13.01	H
	10342	-61.76	-25	-36.76	-71.28	3.92	13.44	H
	5162	-62.38	-25	-37.38	-72.59	3.03	13.24	V
	7752	-62.24	-25	-37.24	-71.69	3.56	13.01	V
	10342	-61.54	-25	-36.54	-71.06	3.92	13.44	V

EN-DC_41A_n78A / LTE 20MHz + NR 100MHz / QPSK / ANT4(LTE) & ANT5(NR)								
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	-60.56	-25	-35.56	-70.77	3.03	13.24	H
	7752	-58.33	-25	-33.33	-67.78	3.56	13.01	H
	10342	-62.28	-25	-37.28	-71.80	3.92	13.44	H
	5162	-61.06	-25	-36.06	-71.27	3.03	13.24	V
	7752	-57.41	-25	-32.41	-66.86	3.56	13.01	V
	10342	-62.48	-25	-37.48	-72.00	3.92	13.44	V

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