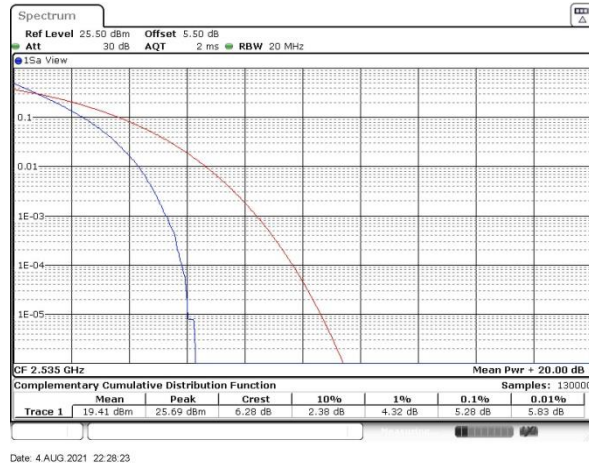
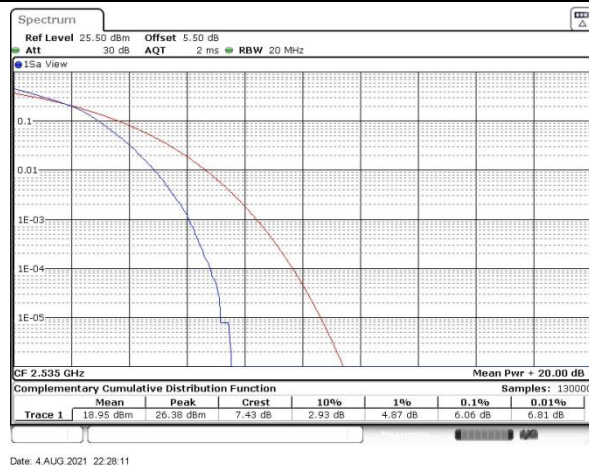


LTE Band 7 / 20MHz

Middle Channel / Full RB/ QPSK

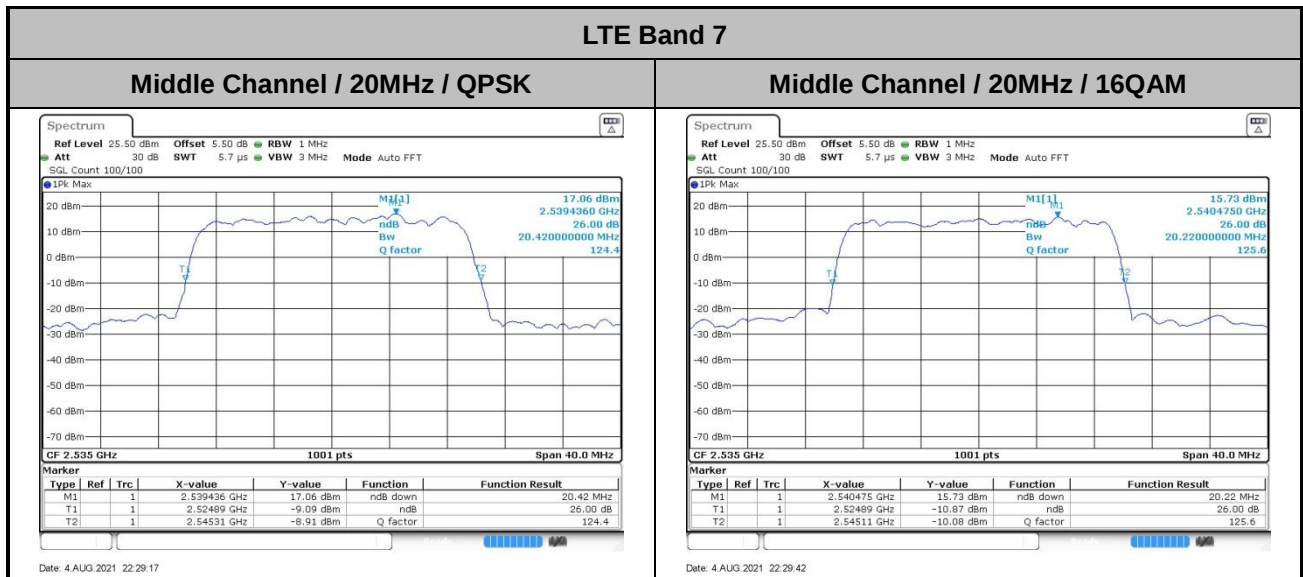


Middle Channel / Full RB/ 16QAM



**26dB Bandwidth**

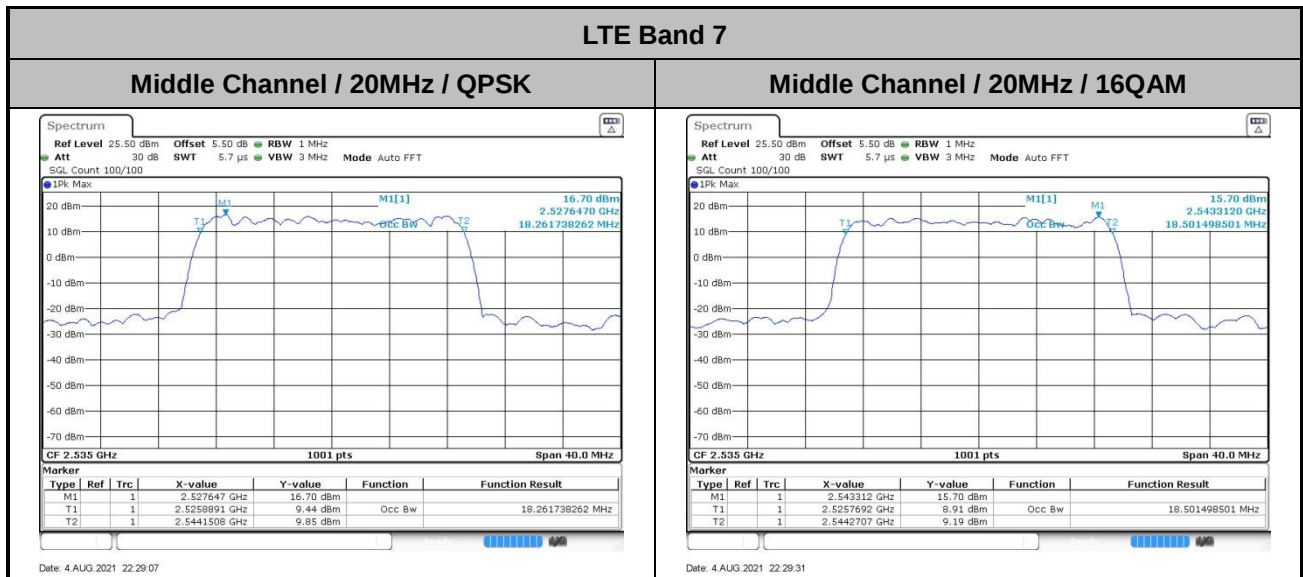
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.42	20.22





Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.26	18.50

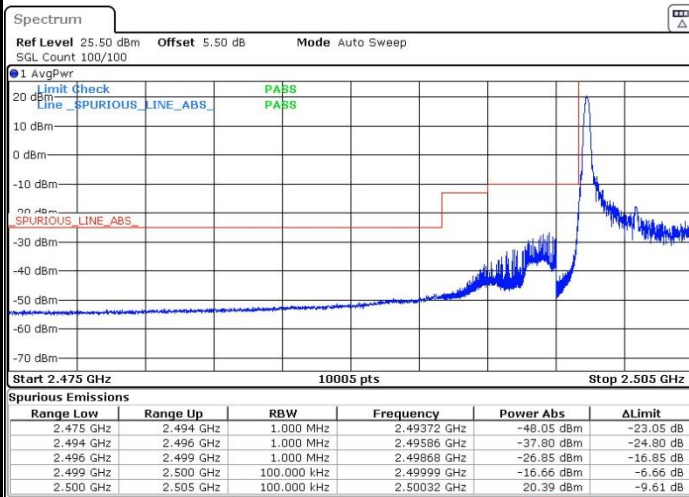




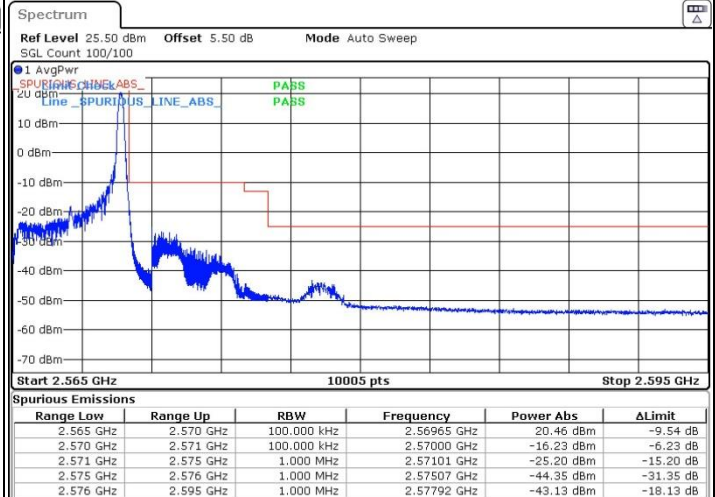
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

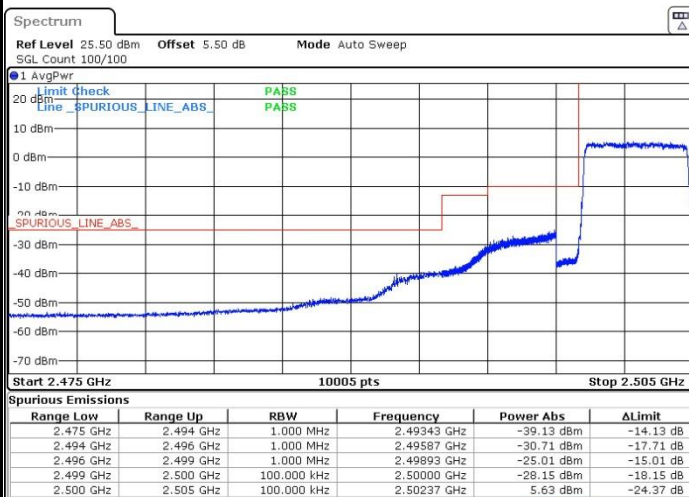
Lowest Band Edge / 1 RB



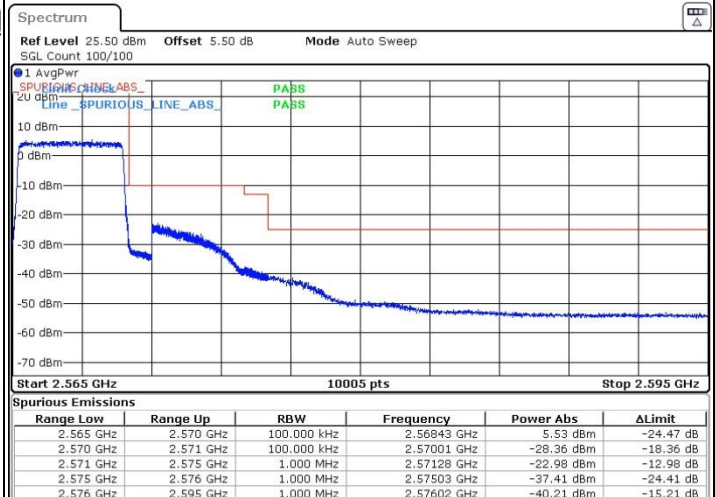
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



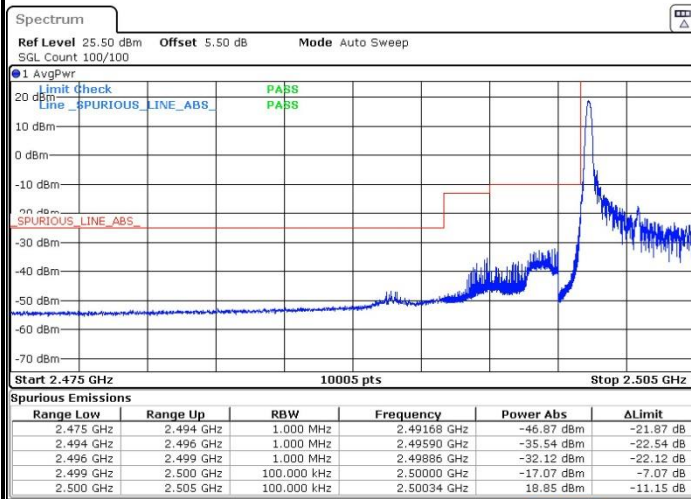
Highest Band Edge / Full RB



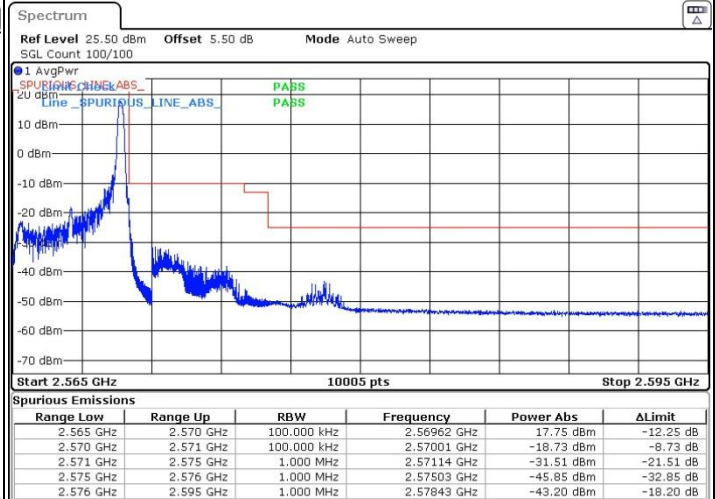


LTE Band 7 / 5MHz / 16QAM

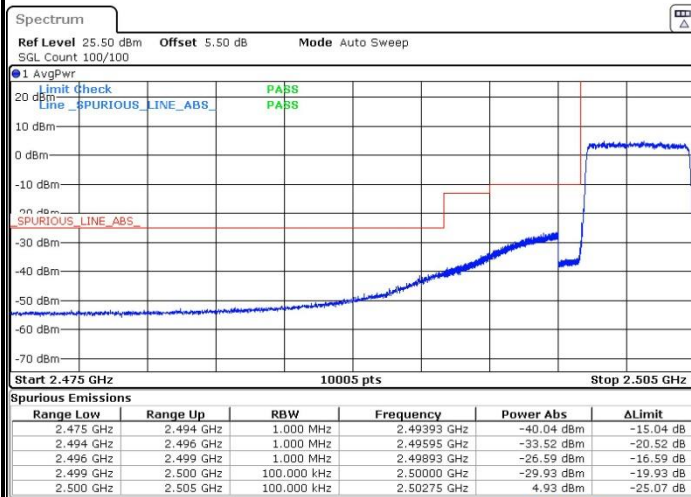
Lowest Band Edge / 1RB



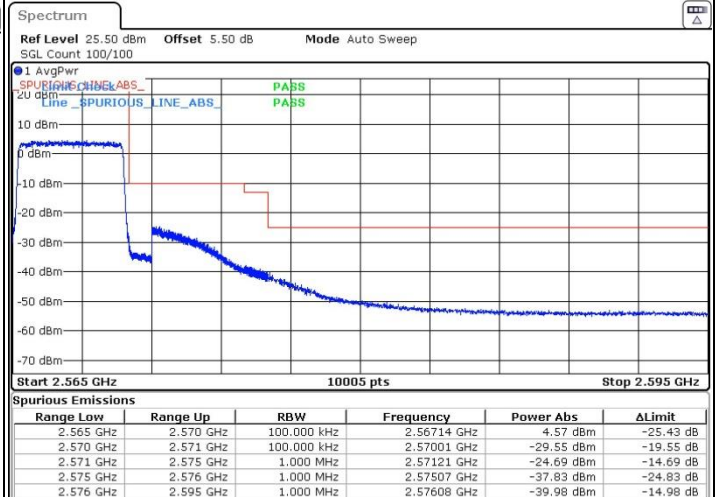
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



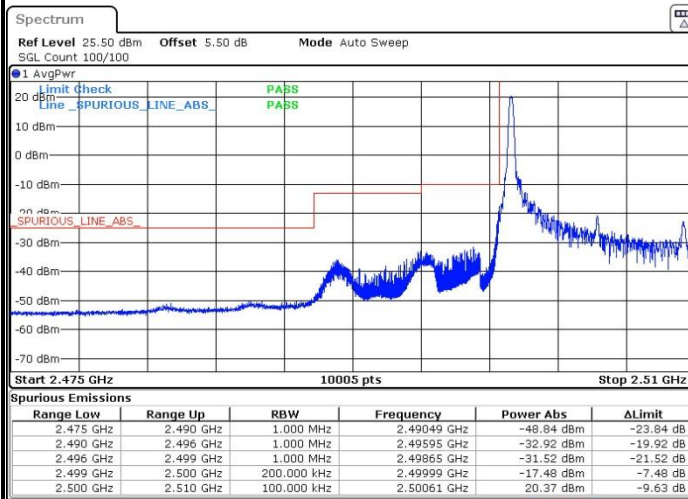
Highest Band Edge / Full RB



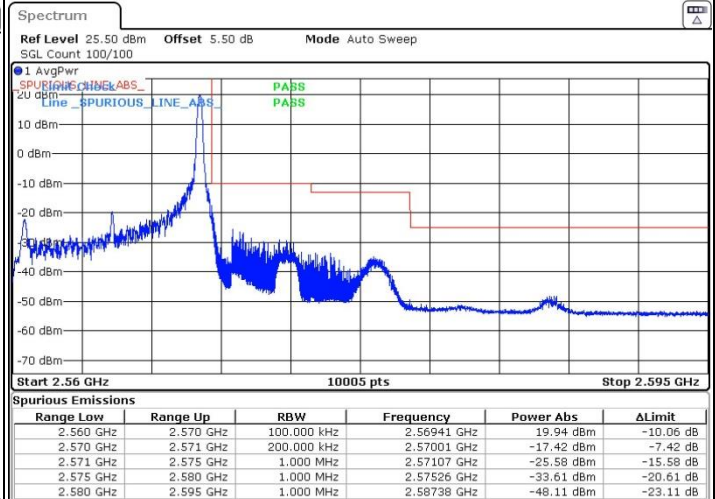


LTE Band 7 / 10MHz / QPSK

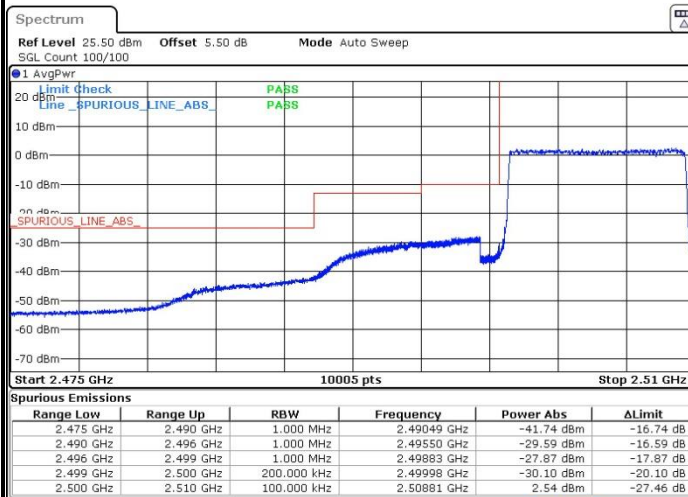
Lowest Band Edge / 1 RB



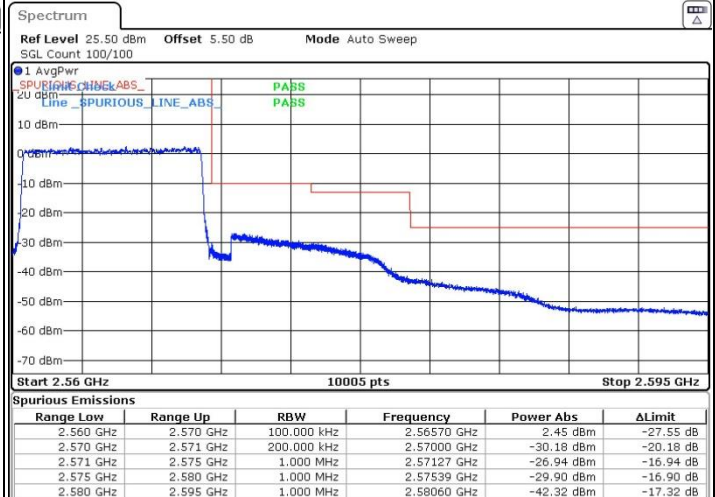
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



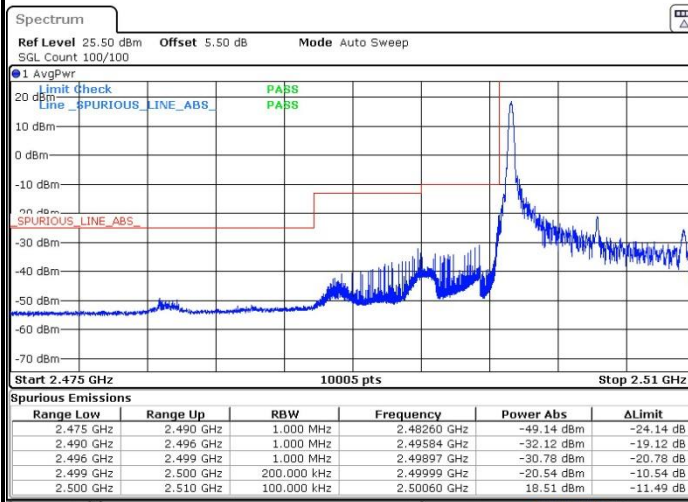
Highest Band Edge / Full RB



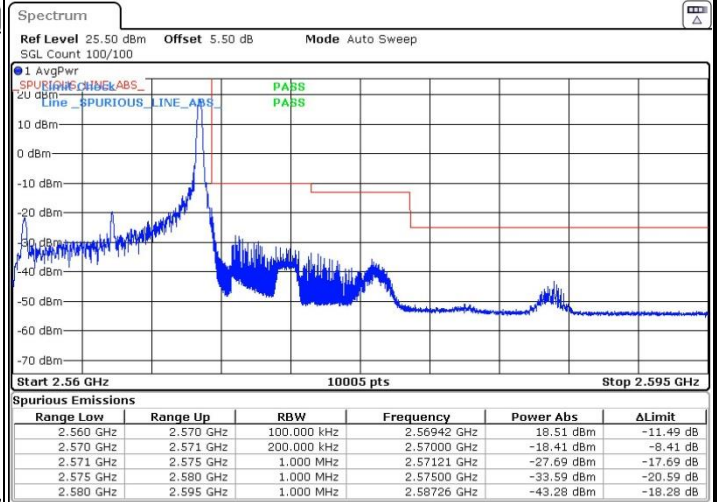


LTE Band 7 / 10MHz / 16QAM

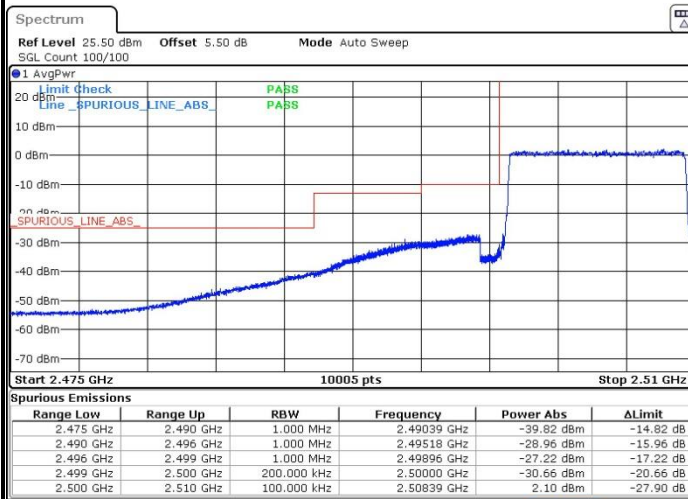
Lowest Band Edge / 1 RB



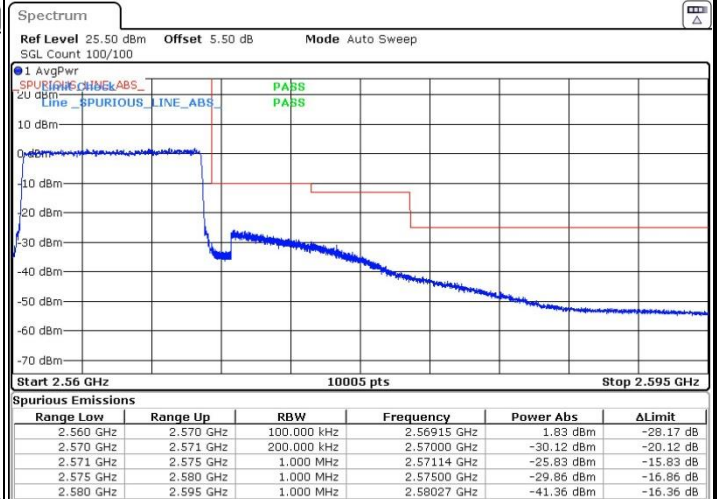
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



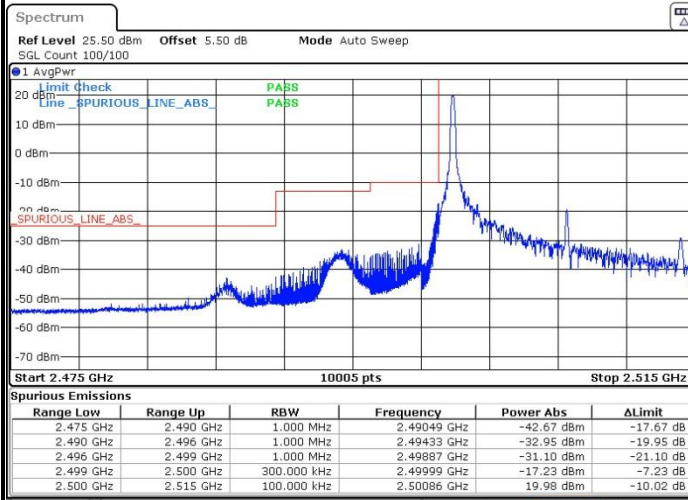
Highest Band Edge / Full RB



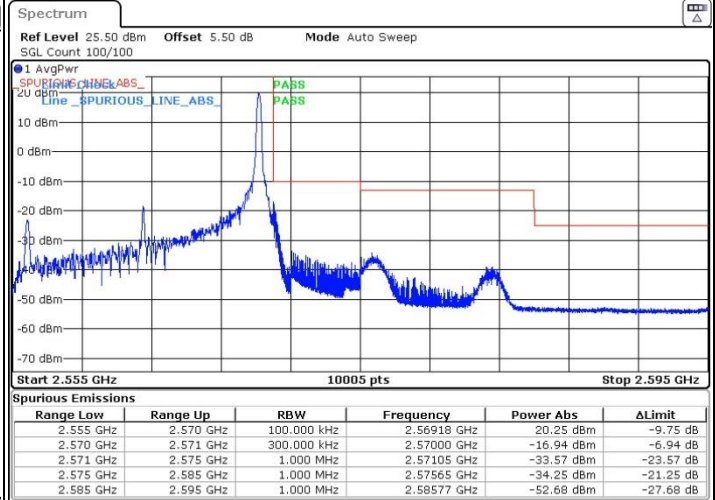


LTE Band 7 / 15MHz / QPSK

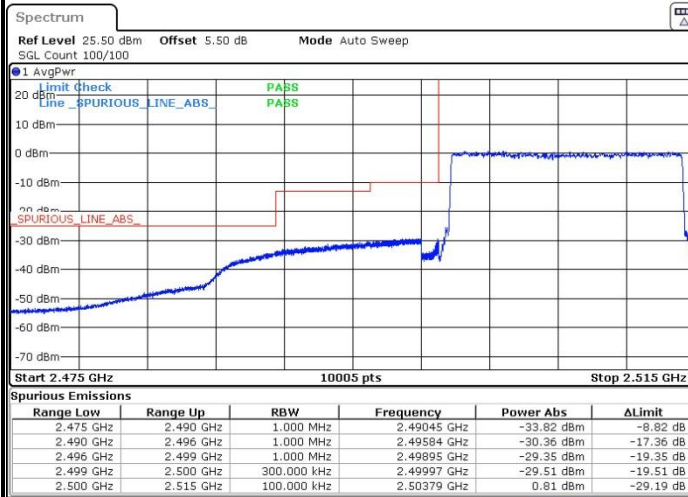
Lowest Band Edge / 1 RB



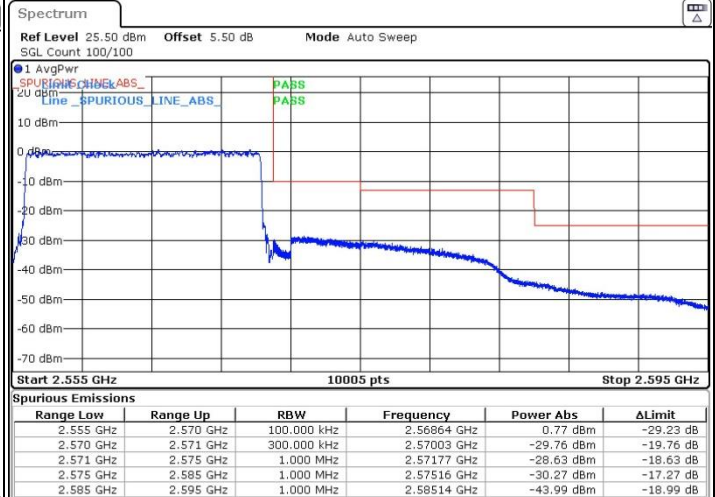
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



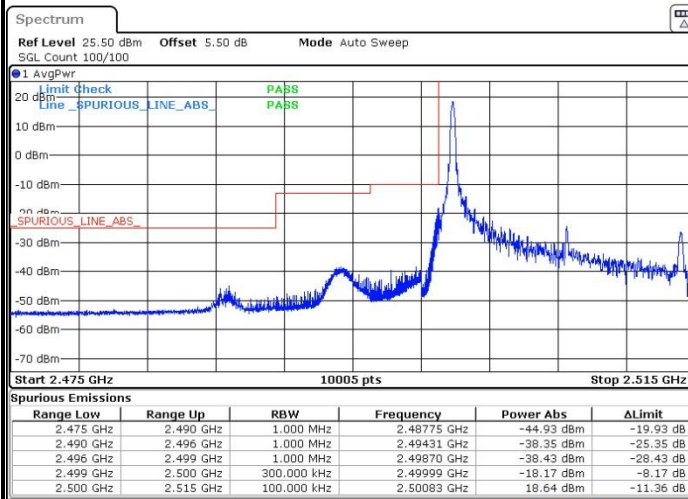
Highest Band Edge / Full RB



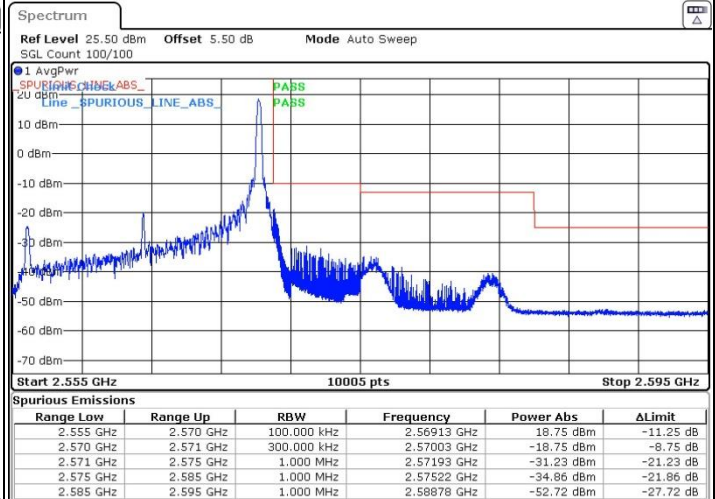


LTE Band 7 / 15MHz / 16QAM

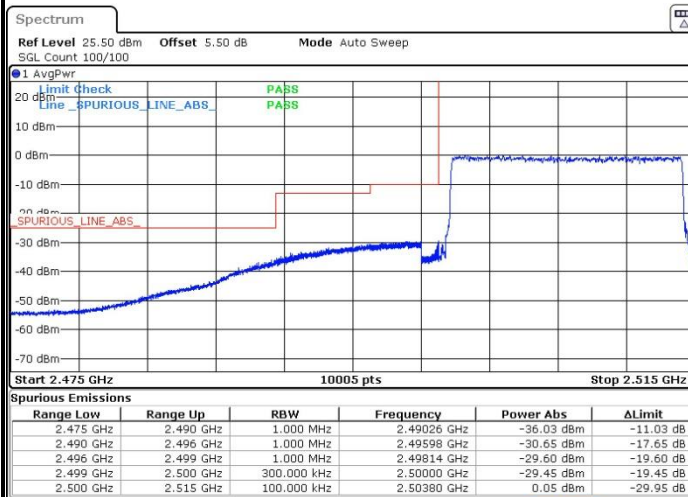
Lowest Band Edge / 1 RB



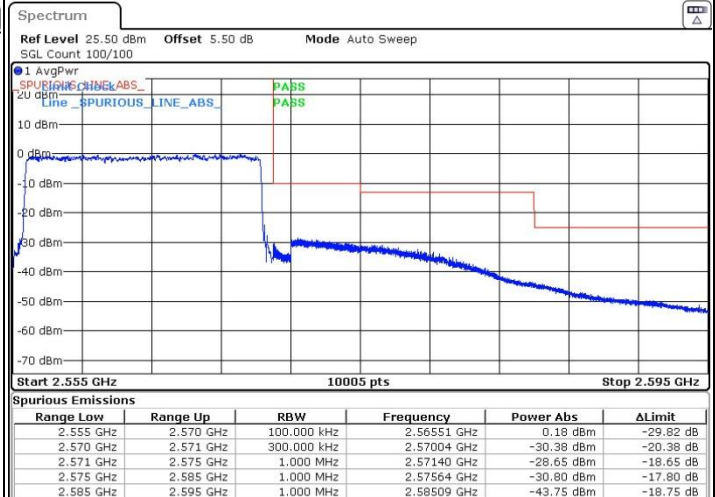
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



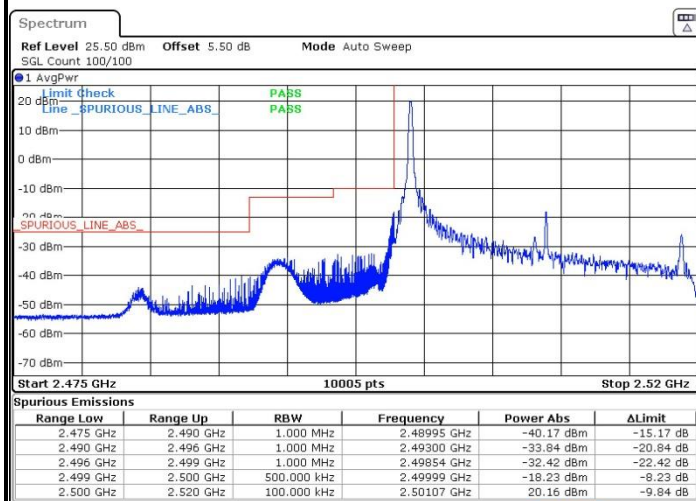
Highest Band Edge / Full RB



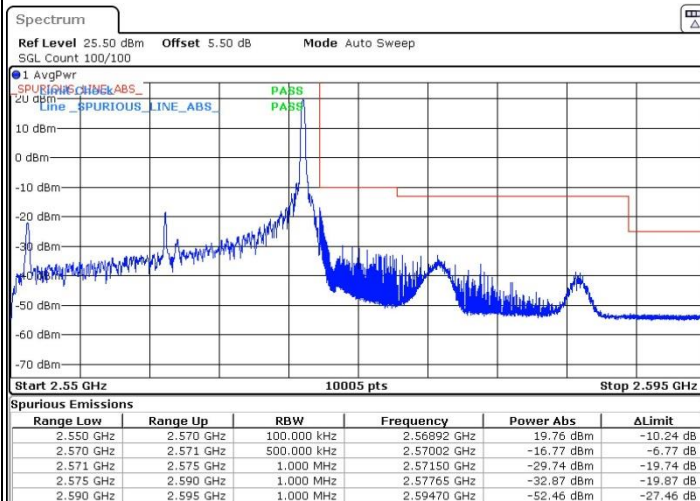


LTE Band 7 / 20MHz / QPSK

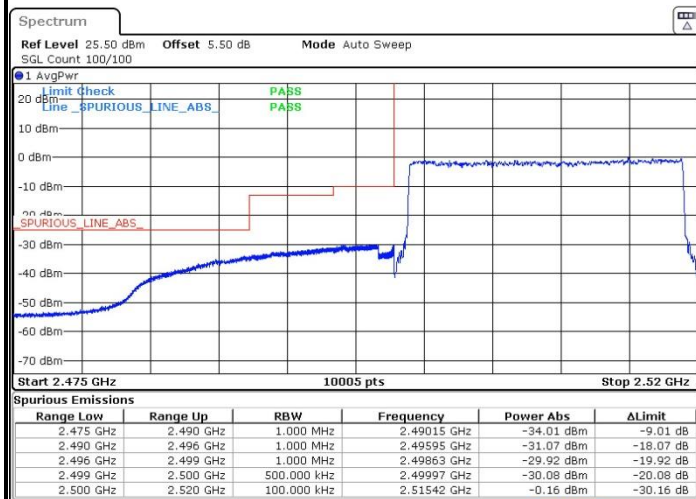
Lowest Band Edge / 1 RB



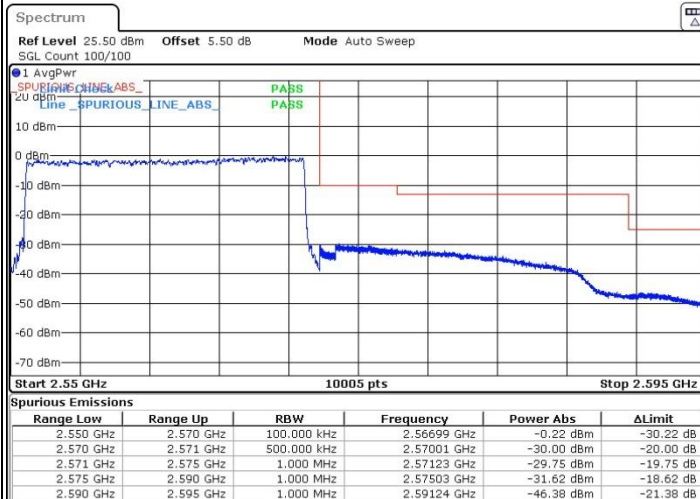
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



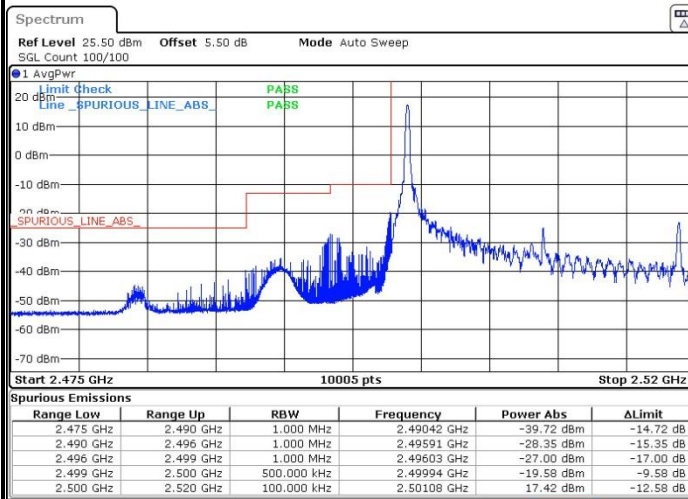
Highest Band Edge / Full RB



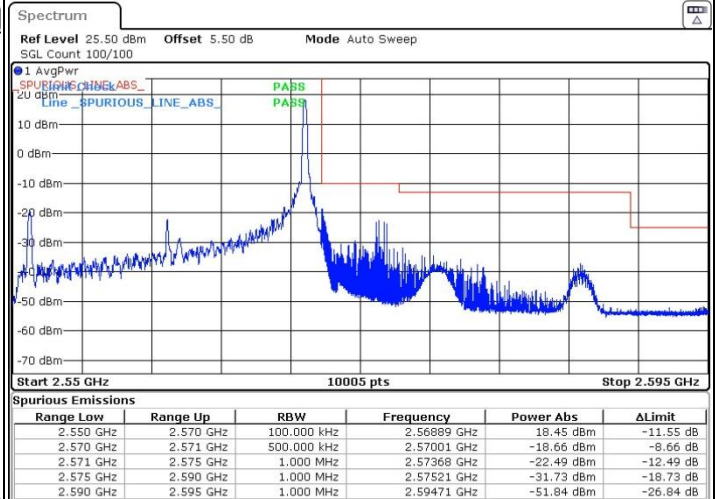


LTE Band 7 / 20MHz / 16QAM

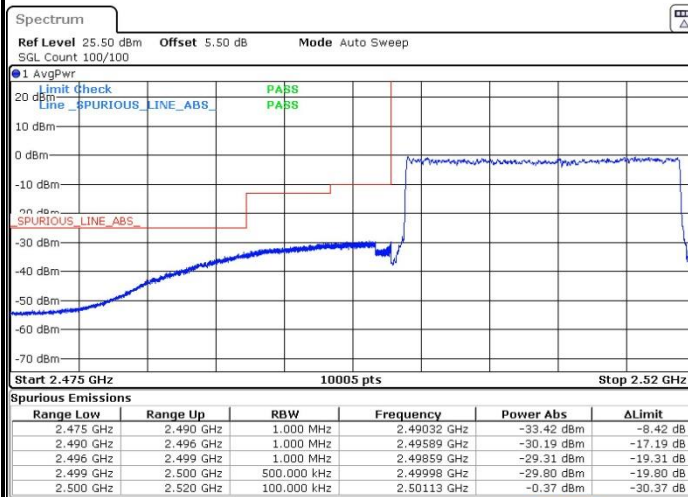
Lowest Band Edge / 1 RB



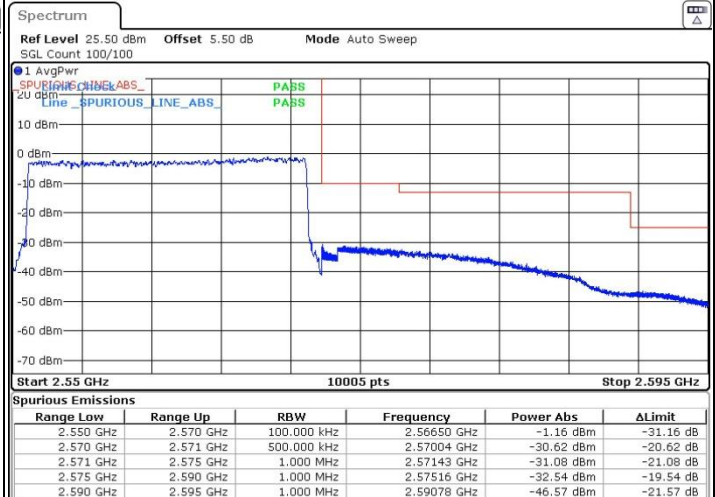
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

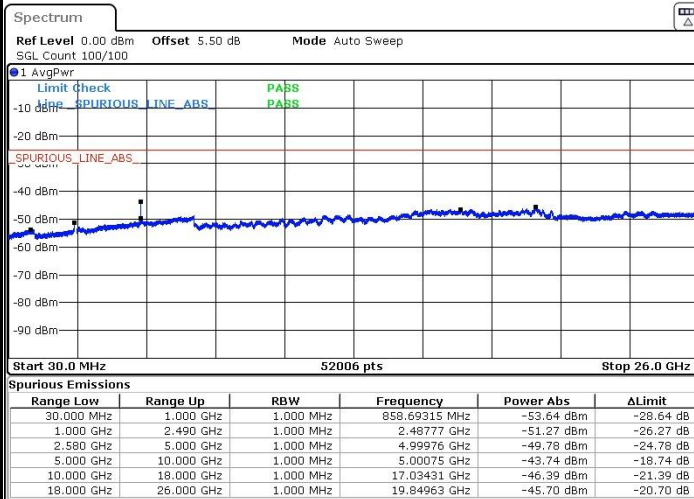




Conducted Spurious Emission

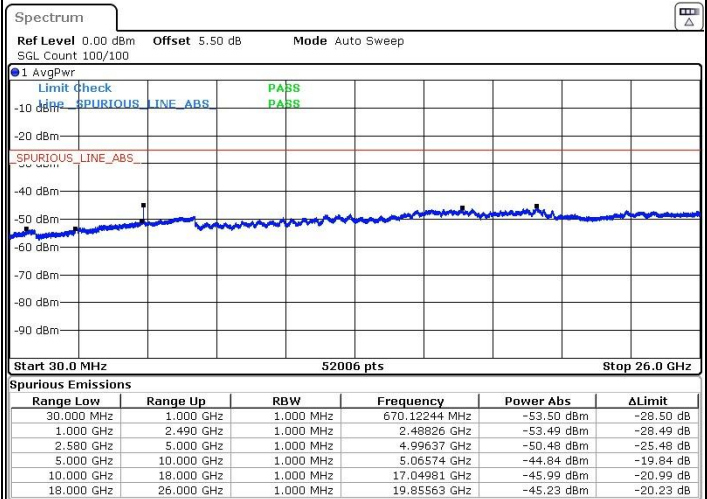
LTE Band 7 / 5MHz

Lowest Channel / QPSK



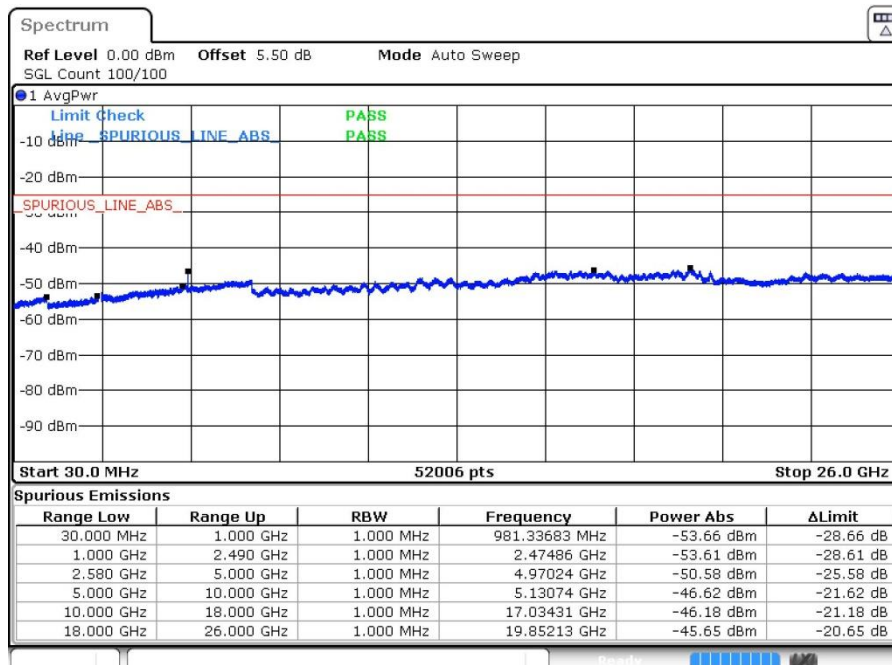
Date: 4 AUG 2021 21:01:56

Middle Channel / QPSK



Date: 4 AUG 2021 21:04:12

Highest Channel / QPSK

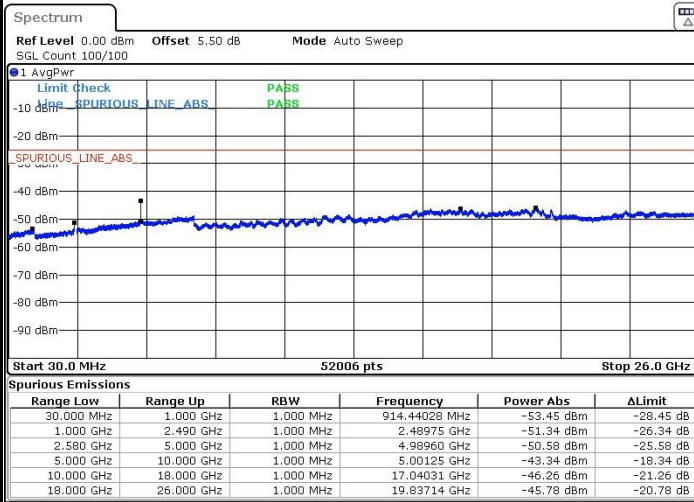


Date: 4.AUG.2021 21:05:16



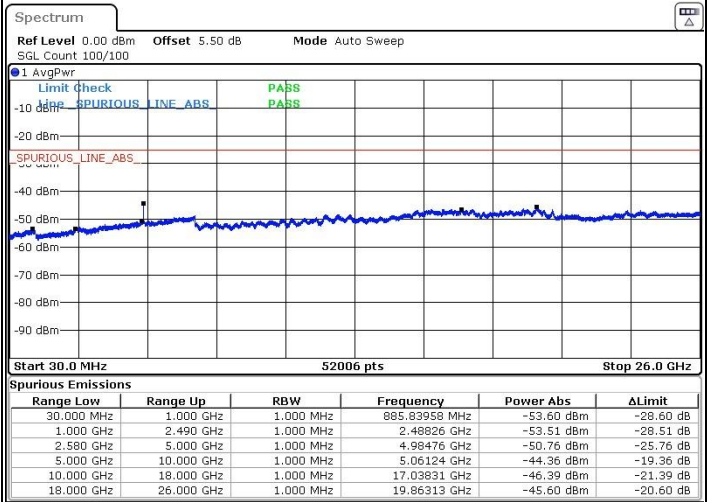
LTE Band 7 / 10MHz

Lowest Channel / QPSK



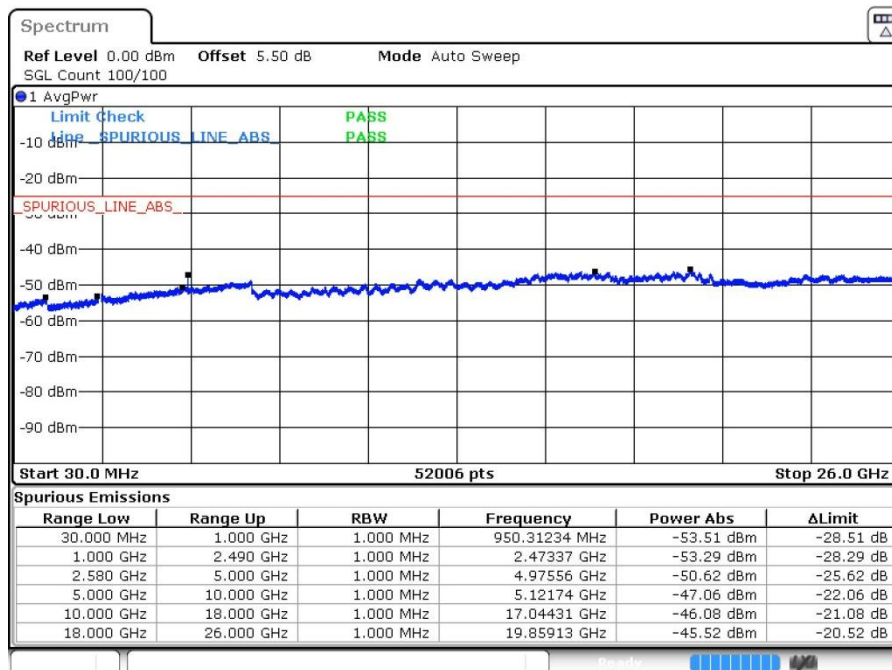
Date: 4.AUG.2021 22:37:41

Middle Channel / QPSK



Date: 4.AUG.2021 22:38:34

Highest Channel / QPSK

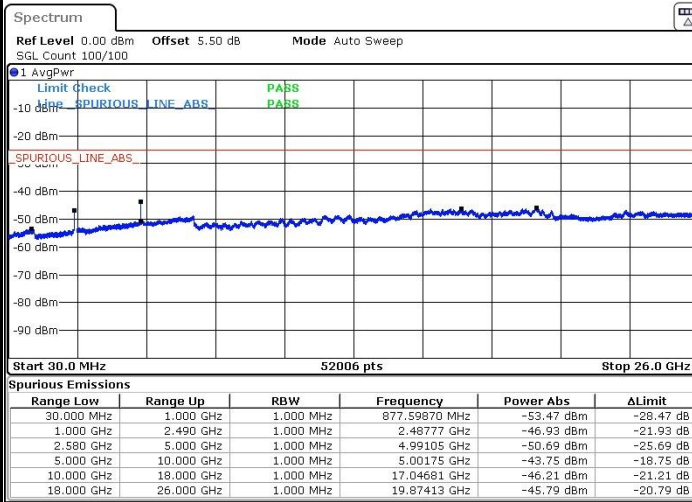


Date: 4.AUG.2021 22:39:29



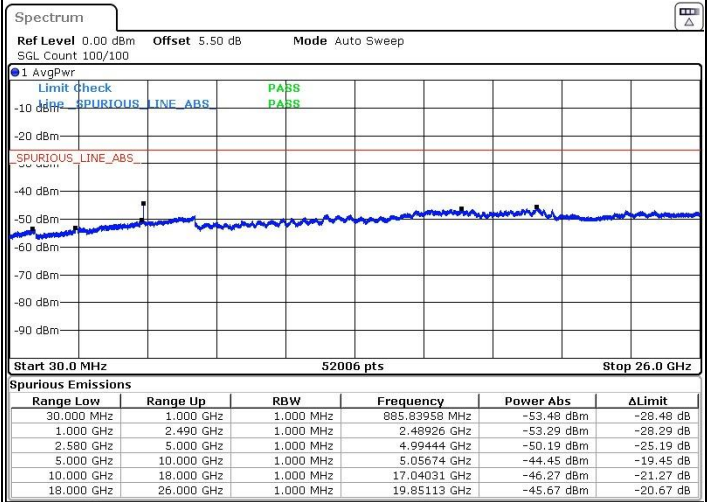
LTE Band 7 / 15MHz

Lowest Channel / QPSK



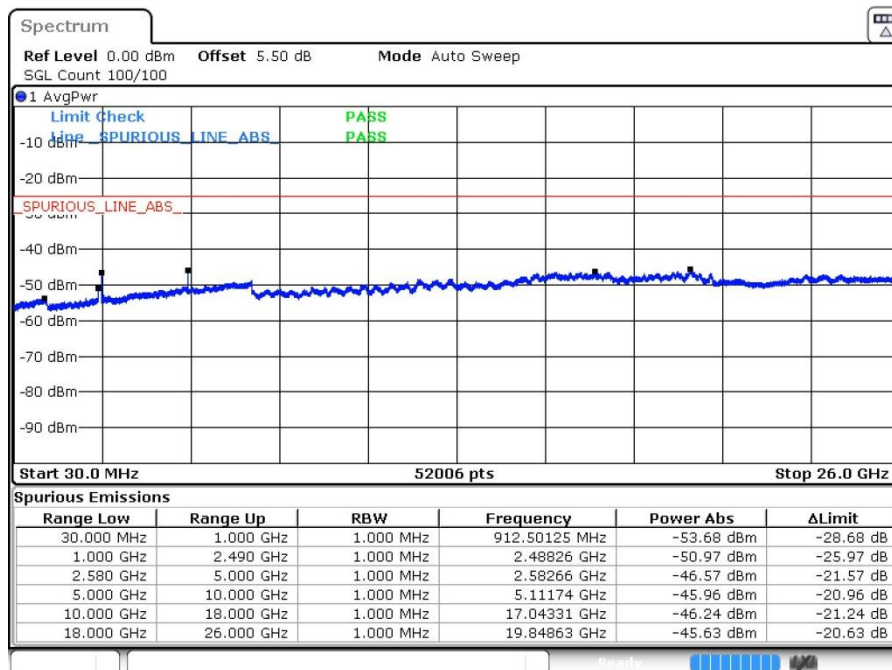
Date: 4 AUG 2021 22:34:44

Middle Channel / QPSK



Date: 4 AUG 2021 22:35:38

Highest Channel / QPSK

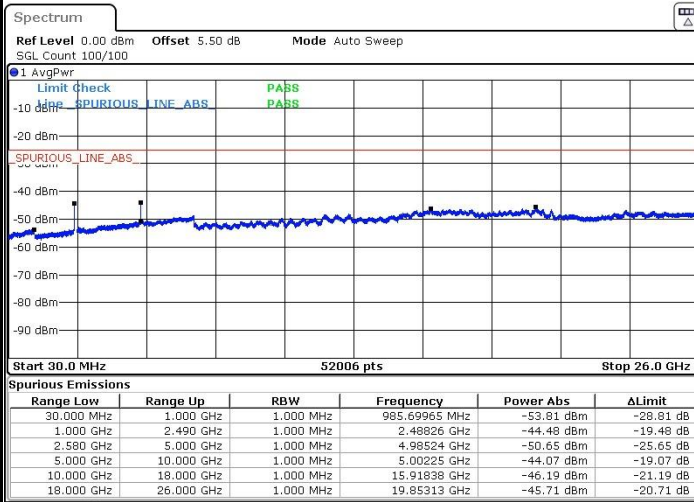


Date: 4 AUG 2021 22:36:33



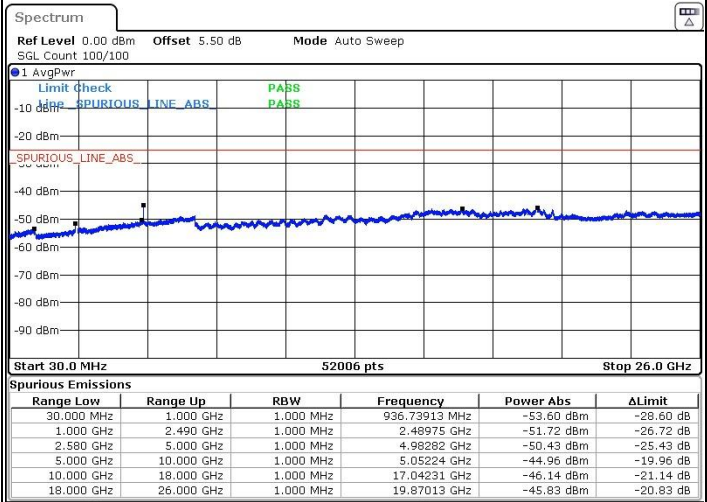
LTE Band 7 / 20MHz

Lowest Channel / QPSK



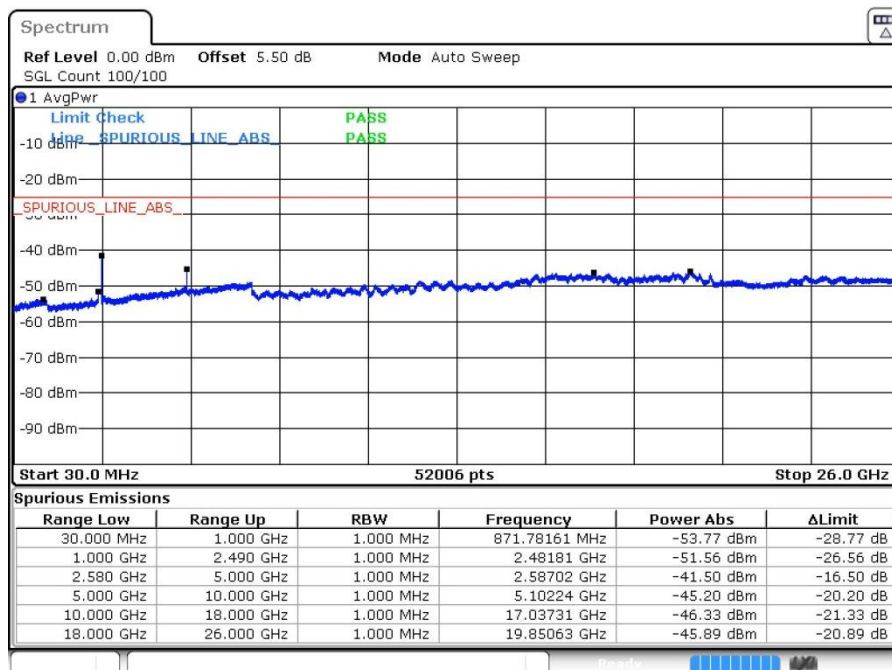
Date: 4.AUG.2021 22:30:47

Middle Channel / QPSK



Date: 4.AUG.2021 22:32:35

Highest Channel / QPSK



Date: 4.AUG.2021 22:33:37

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0018	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 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 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	-62.92	-13	-49.92	-69.89	1.58	10.70	H
	2496	-56.91	-13	-43.91	-65.16	2.102	12.50	H
	3330	-53.98	-13	-40.98	-62.87	2.856	13.90	H
	1664	-63.03	-13	-50.03	-70.00	1.58	10.70	V
	2496	-58.34	-13	-45.34	-66.59	2.10	12.50	V
	3330	-56.23	-13	-43.23	-65.12	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	-48.40	-25	-23.40	-58.61	3.03	13.24	H
	7580	-52.92	-25	-27.92	-62.37	3.56	13.01	H
	10100	-45.43	-25	-20.43	-54.95	3.92	13.44	H
	12630	-47.54	-25	-22.54	-57.46	4.44	14.36	H
	5052	-53.44	-25	-28.44	-63.65	3.03	13.24	V
	7580	-56.96	-25	-31.96	-66.41	3.56	13.01	V
	10100	-48.17	-25	-23.17	-57.69	3.92	13.44	V
	12630	-46.51	-25	-21.51	-56.43	4.44	14.36	V

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