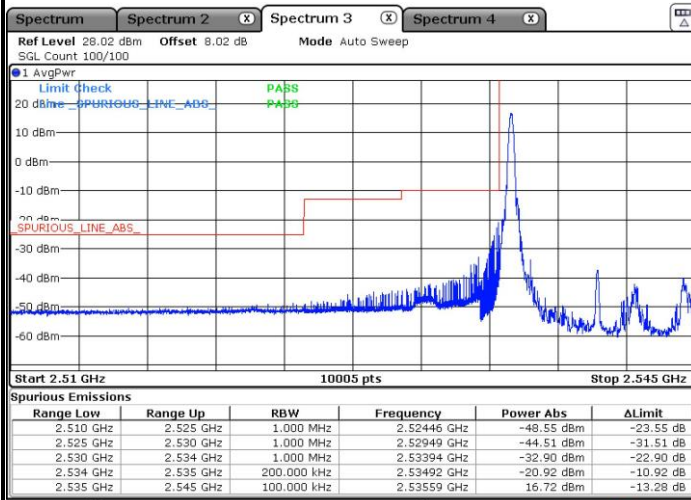




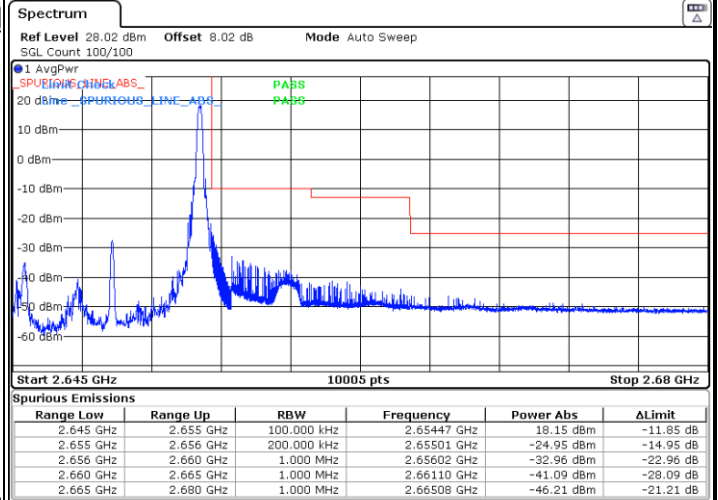
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



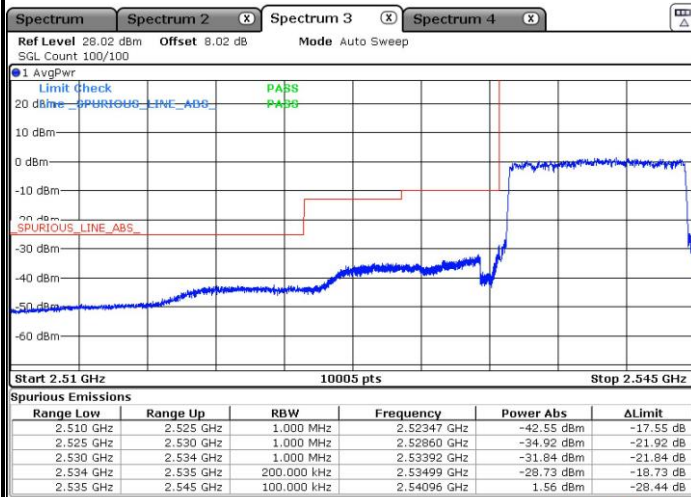
Date: 19.FEB.2021 09:49:09

Highest Band Edge / 1 RB



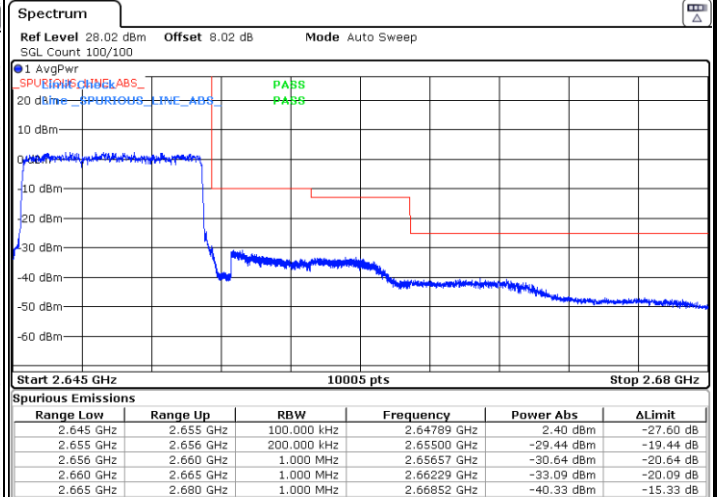
Date: 5.JAN.2021 09:38:02

Lowest Band Edge / Full RB



Date: 19.FEB.2021 09:44:48

Highest Band Edge / Full RB

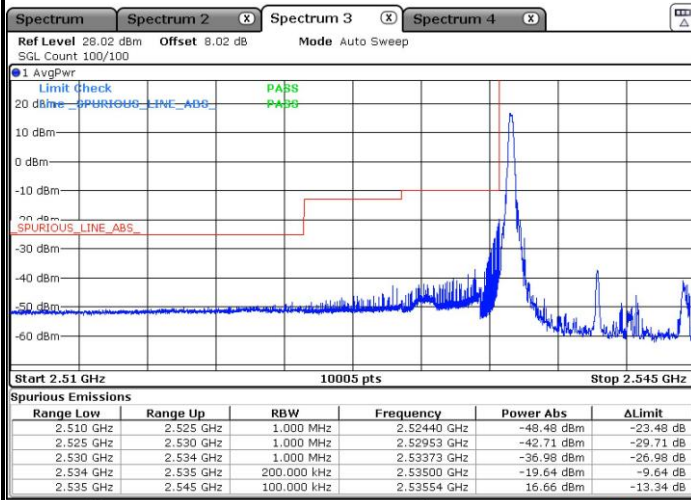


Date: 5.JAN.2021 09:35:05



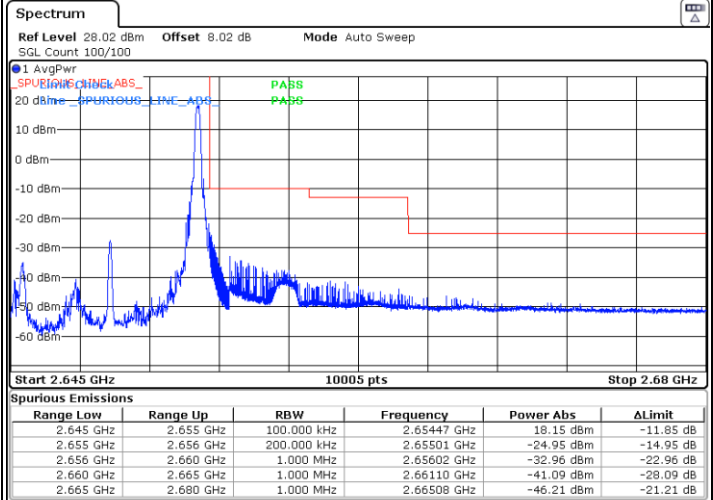
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



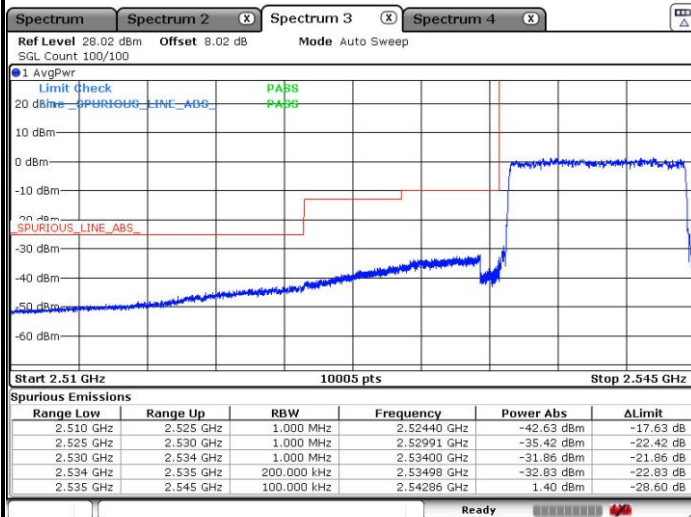
Date: 19.FEB.2021 09:48:33

Highest Band Edge / 1 RB



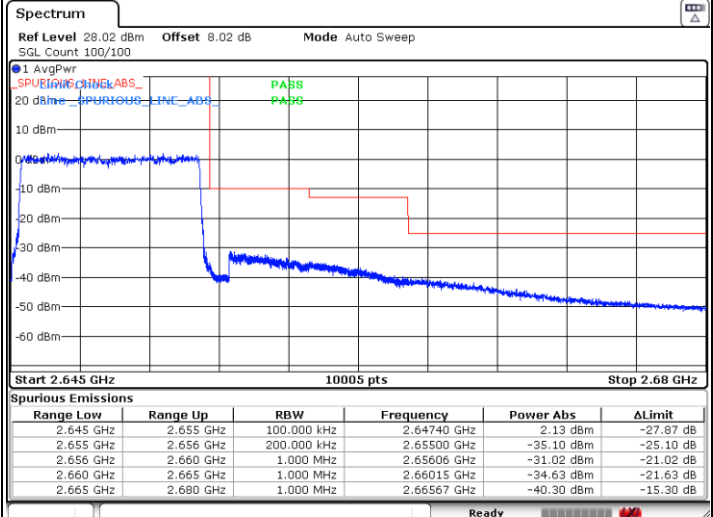
Date: 5.JAN.2021 09:38:02

Lowest Band Edge / Full RB



Date: 19.FEB.2021 09:45:42

Highest Band Edge / Full RB

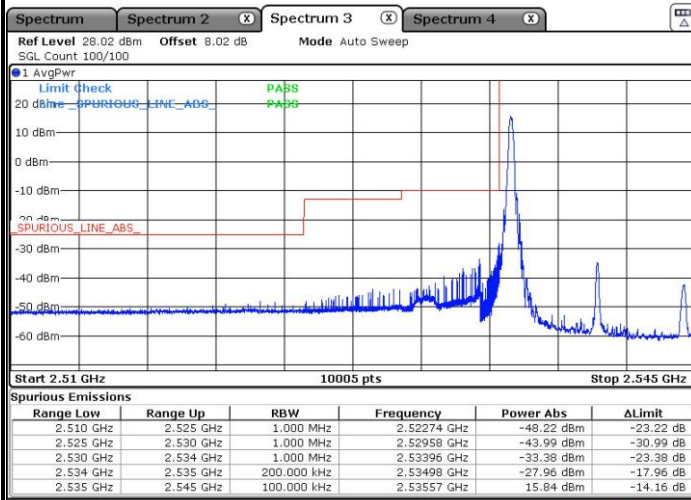


Date: 5.JAN.2021 09:35:44



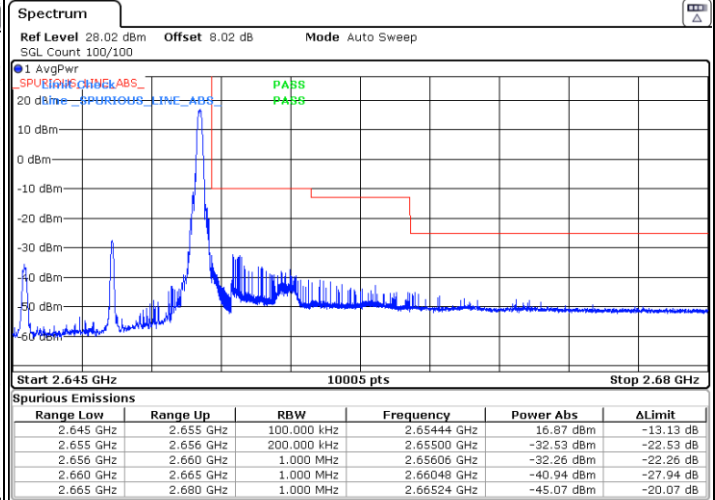
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



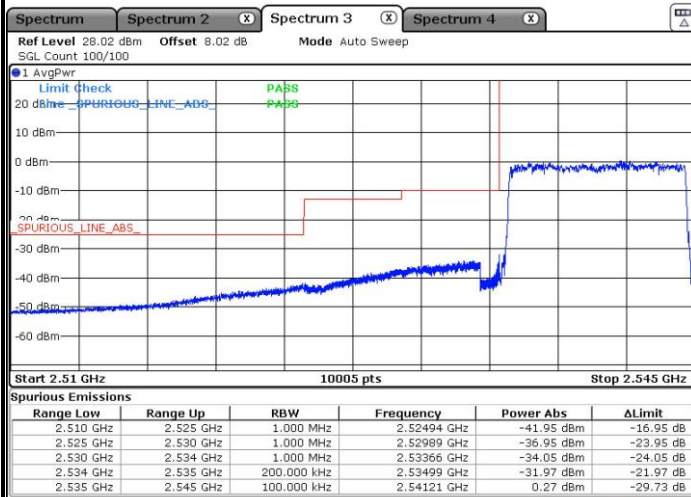
Date: 19.FEB.2021 09:48:03

Highest Band Edge / 1 RB



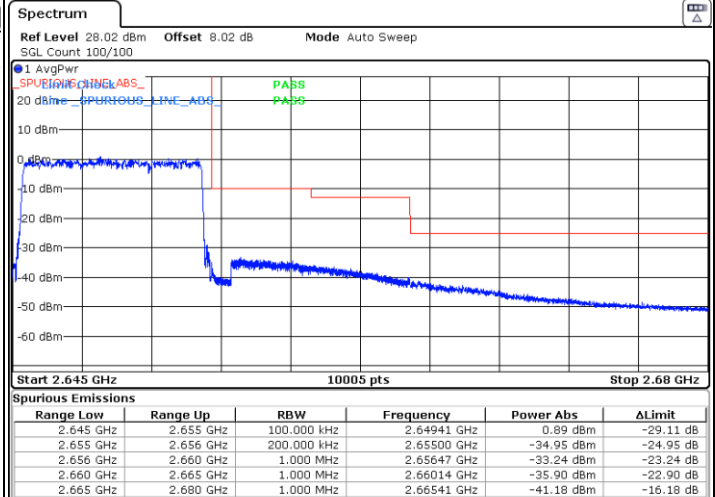
Date: 5.JAN.2021 09:36:49

Lowest Band Edge / Full RB



Date: 19.FEB.2021 09:47:31

Highest Band Edge / Full RB

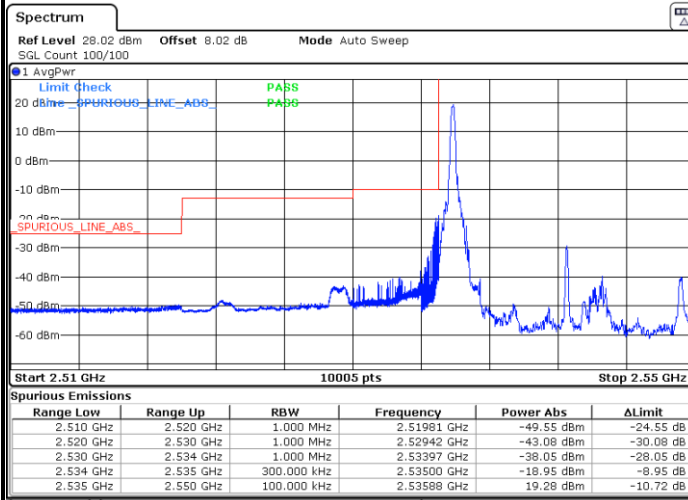


Date: 5.JAN.2021 09:36:10

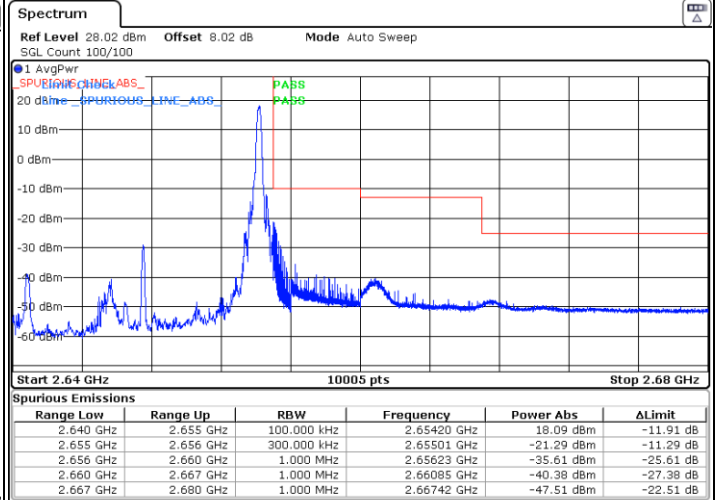


LTE Band 41 / 15MHz / QPSK

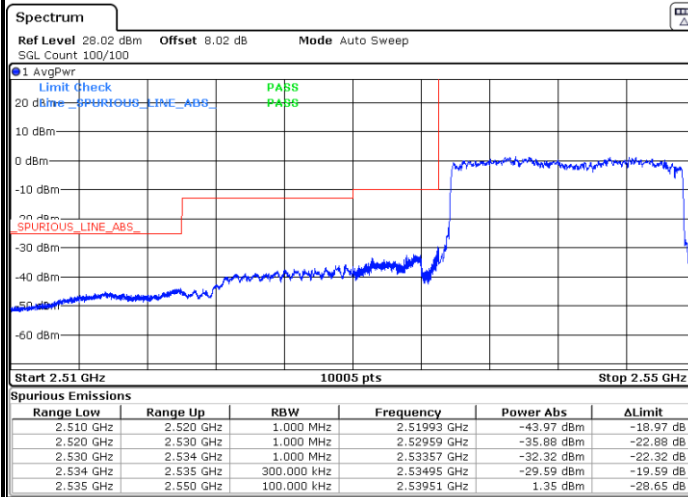
Lowest Band Edge / 1 RB



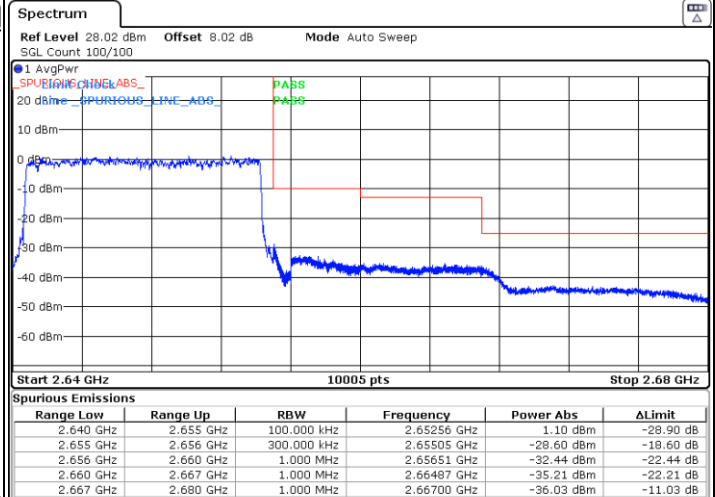
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



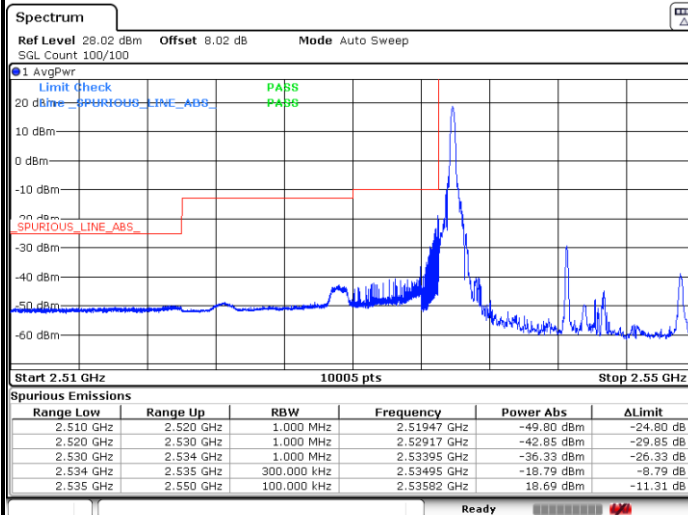
Highest Band Edge / Full RB



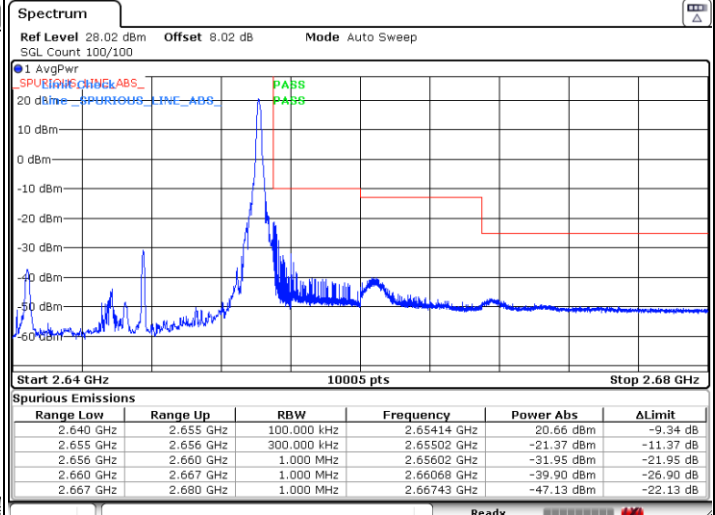


LTE Band 41 / 15MHz / 16QAM

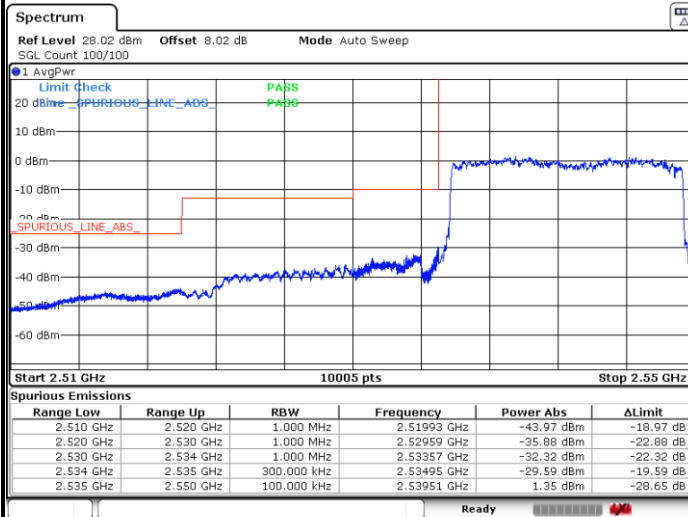
Lowest Band Edge / 1 RB



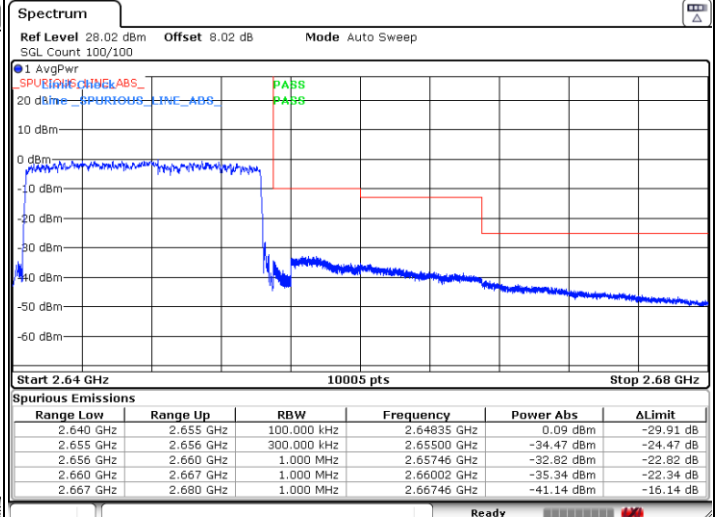
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



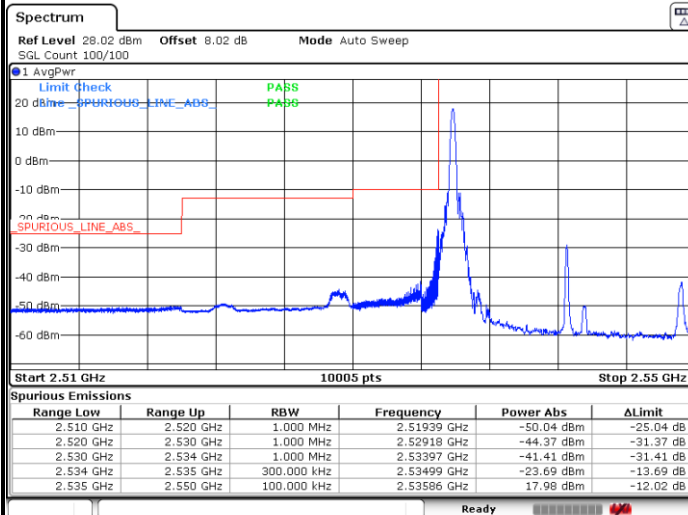
Highest Band Edge / Full RB



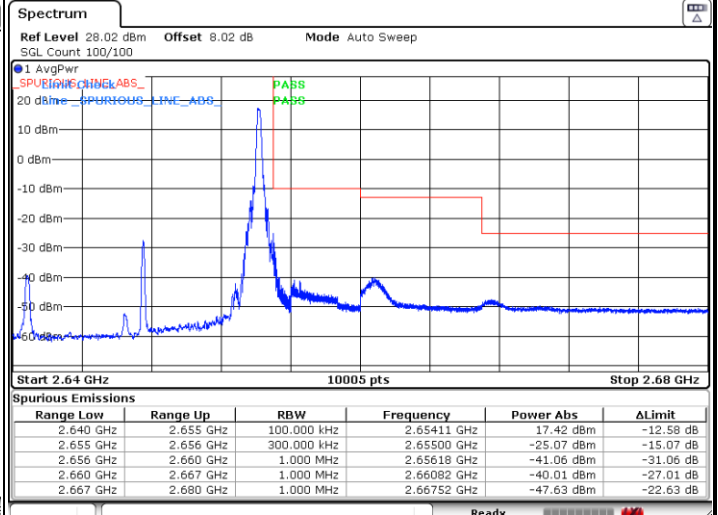


LTE Band 41 / 15MHz / 64QAM

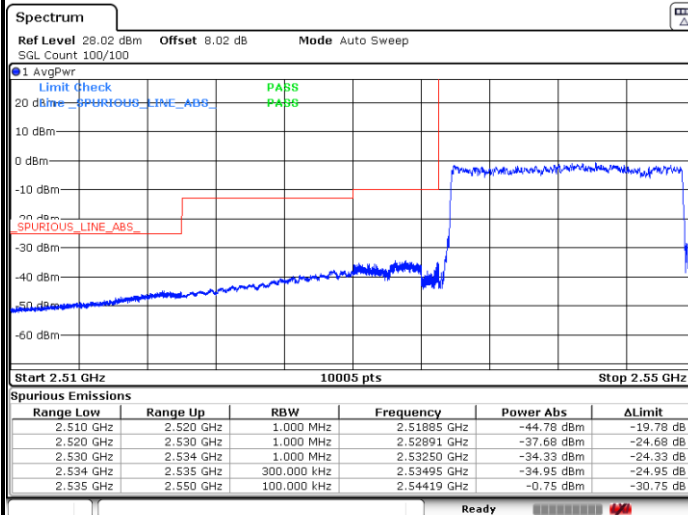
Lowest Band Edge / 1 RB



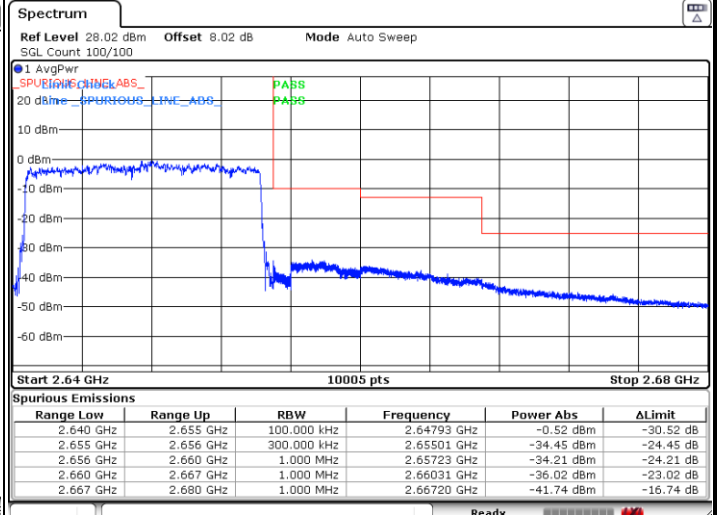
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



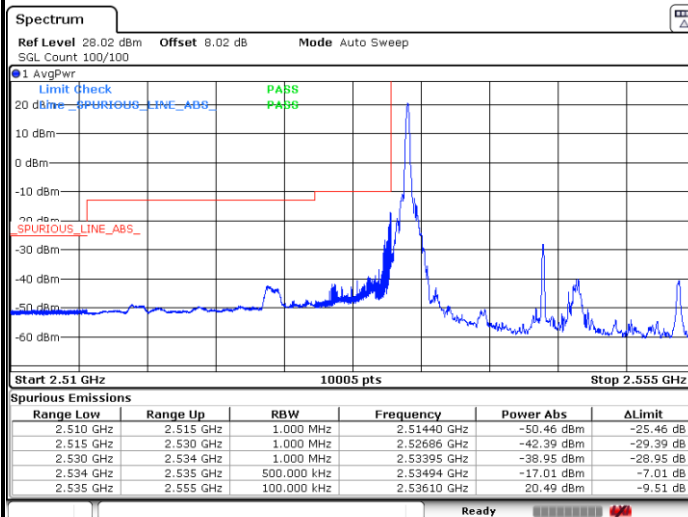
Highest Band Edge / Full RB



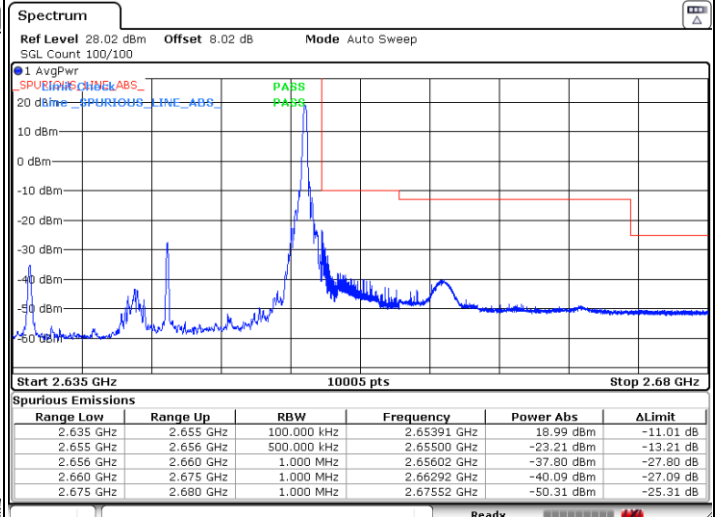


LTE Band 41 / 20MHz / QPSK

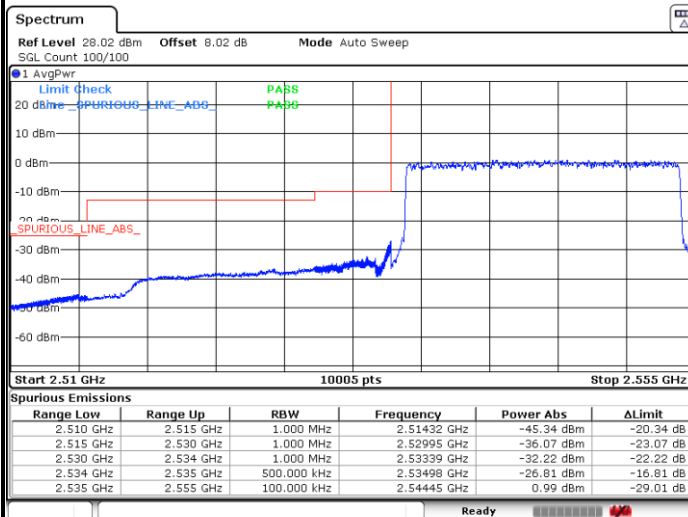
Lowest Band Edge / 1 RB



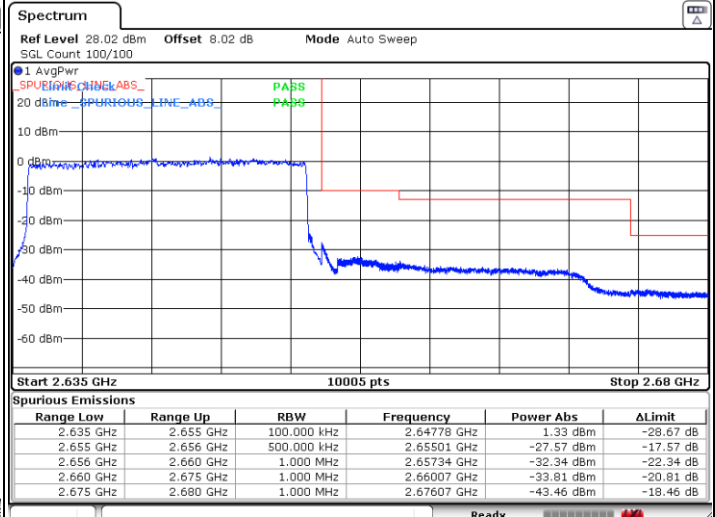
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



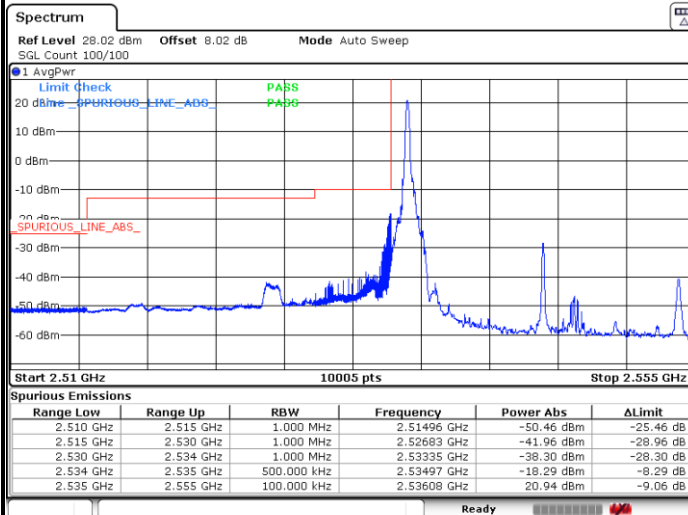
Highest Band Edge / Full RB



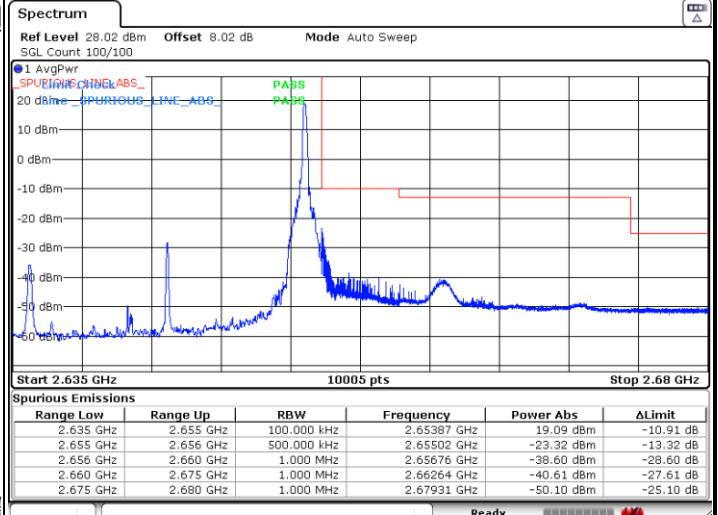


LTE Band 41 / 20MHz / 16QAM

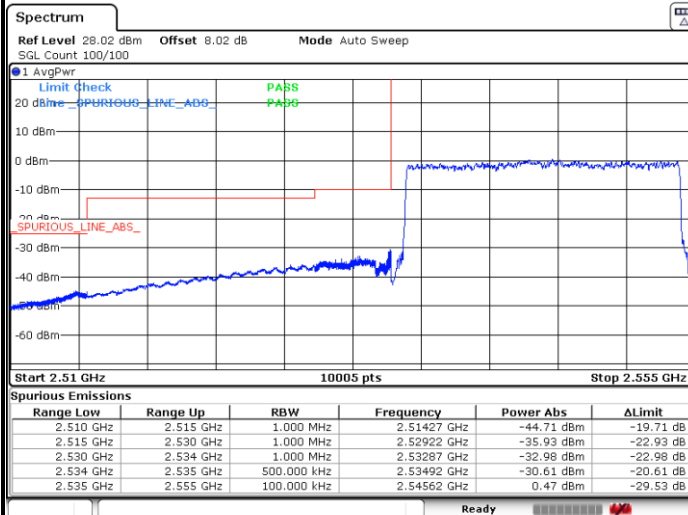
Lowest Band Edge / 1 RB



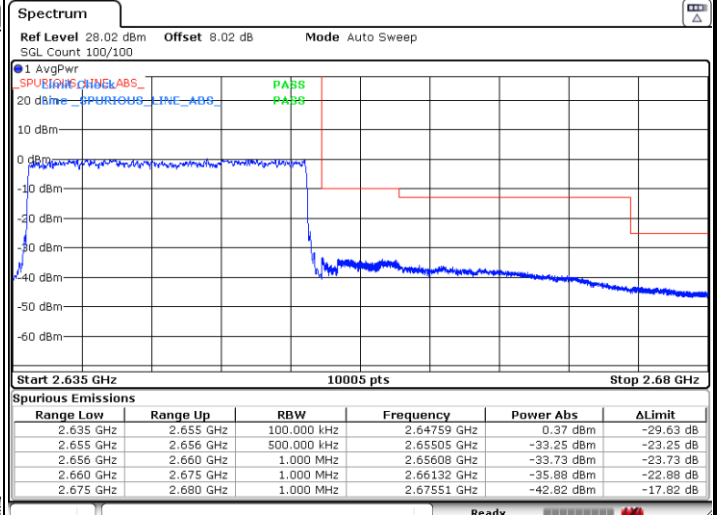
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



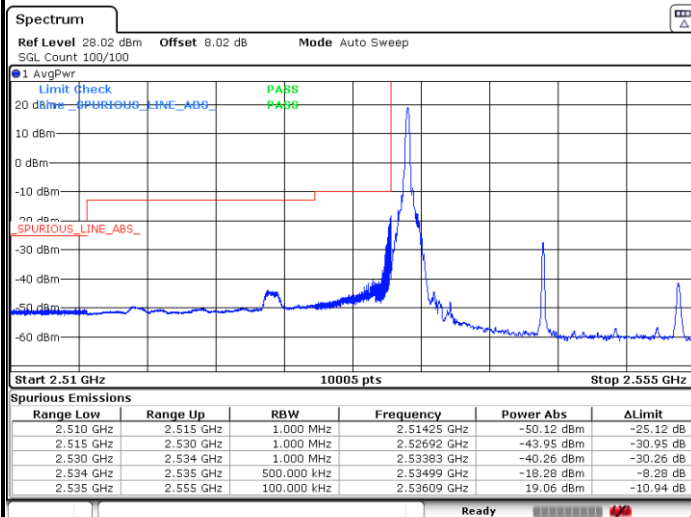
Highest Band Edge / Full RB



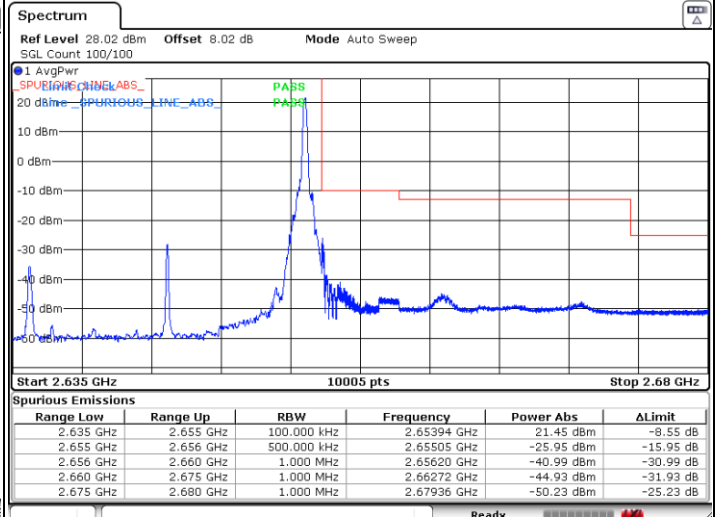


LTE Band 41 / 20MHz / 64QAM

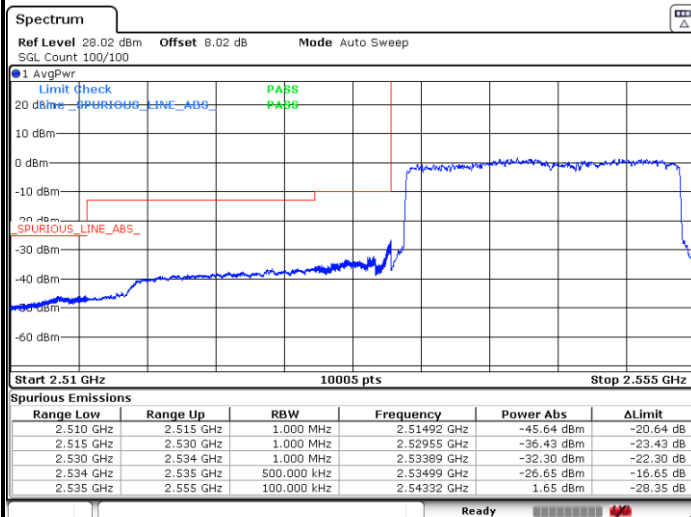
Lowest Band Edge / 1 RB



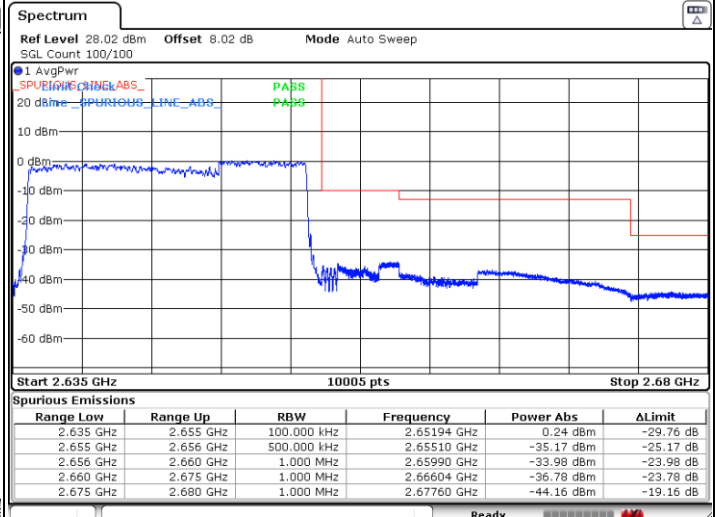
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

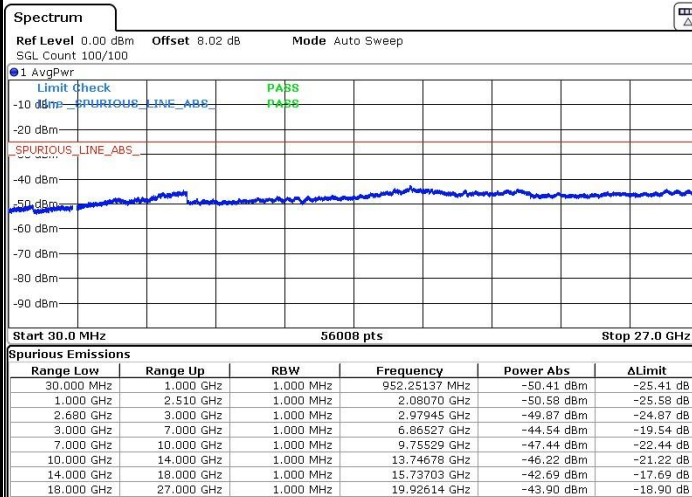




Conducted Spurious Emission

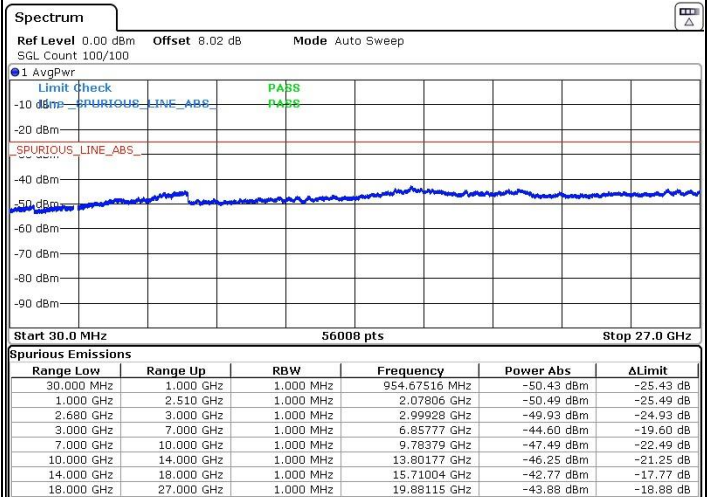
LTE Band 41 / 5MHz

Lowest Channel / QPSK



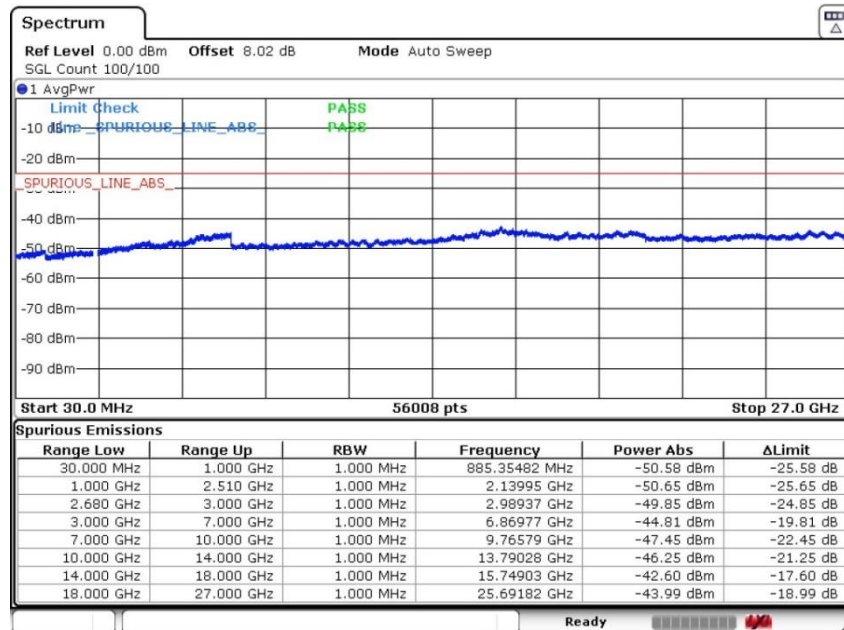
Date: 5.JAN.2021 10:46:18

Middle Channel / QPSK



Date: 5.JAN.2021 10:45:21

Highest Channel / QPSK

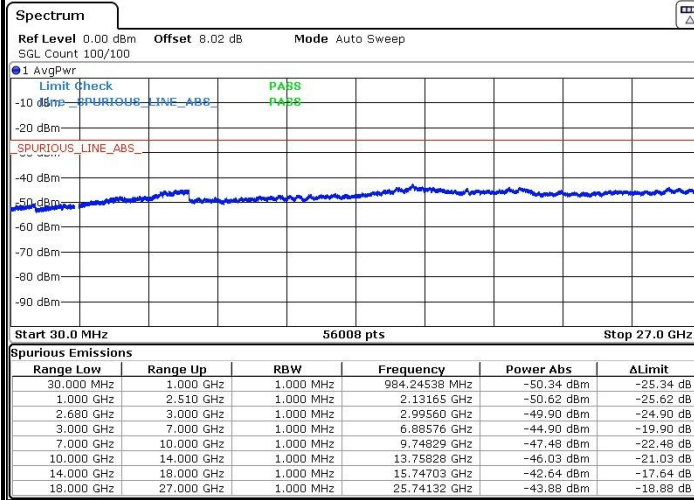


Date: 5.JAN.2021 10:44:22



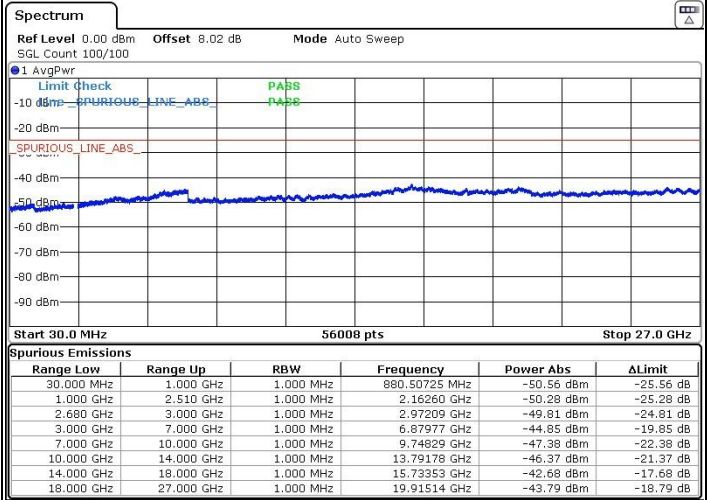
LTE Band 41 / 10MHz

Lowest Channel / QPSK



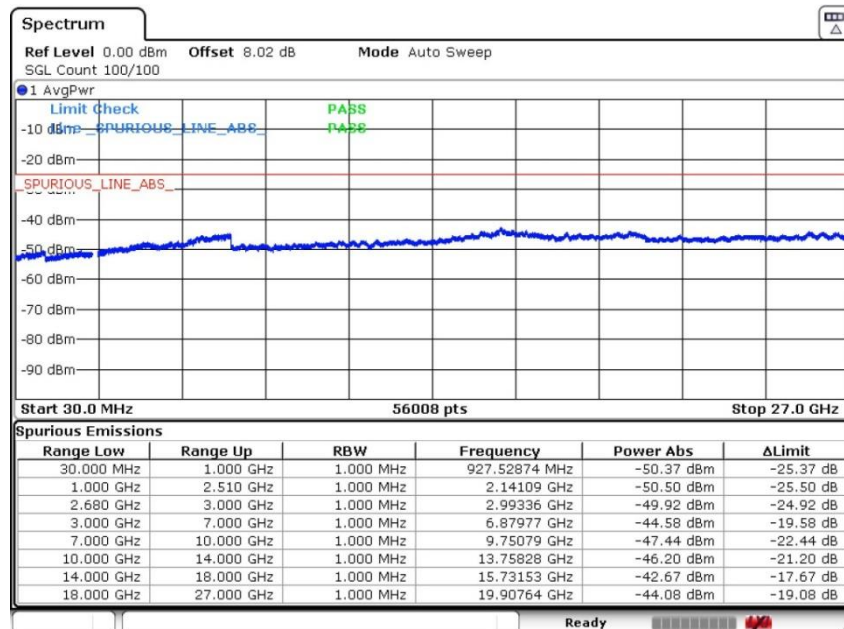
Date: 5.JAN.2021 10:40:26

Middle Channel / QPSK



Date: 5.JAN.2021 10:42:19

Highest Channel / QPSK

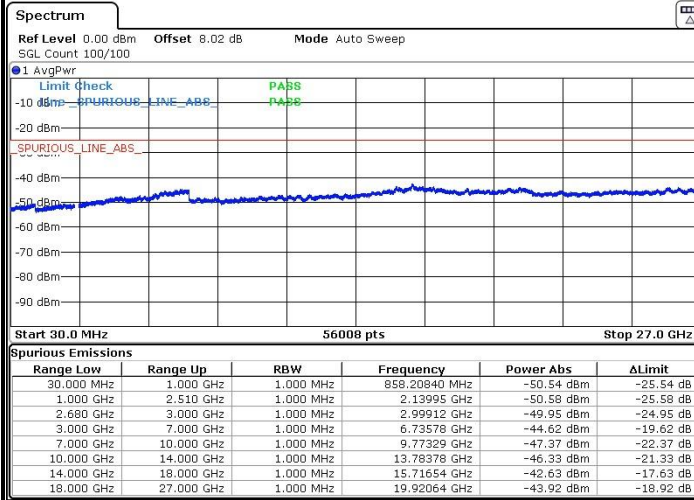


Date: 5.JAN.2021 10:43:19



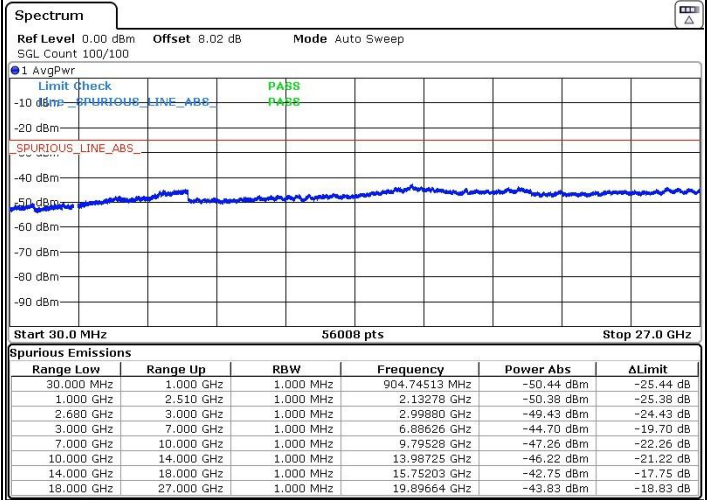
LTE Band 41 / 15MHz

Lowest Channel / QPSK



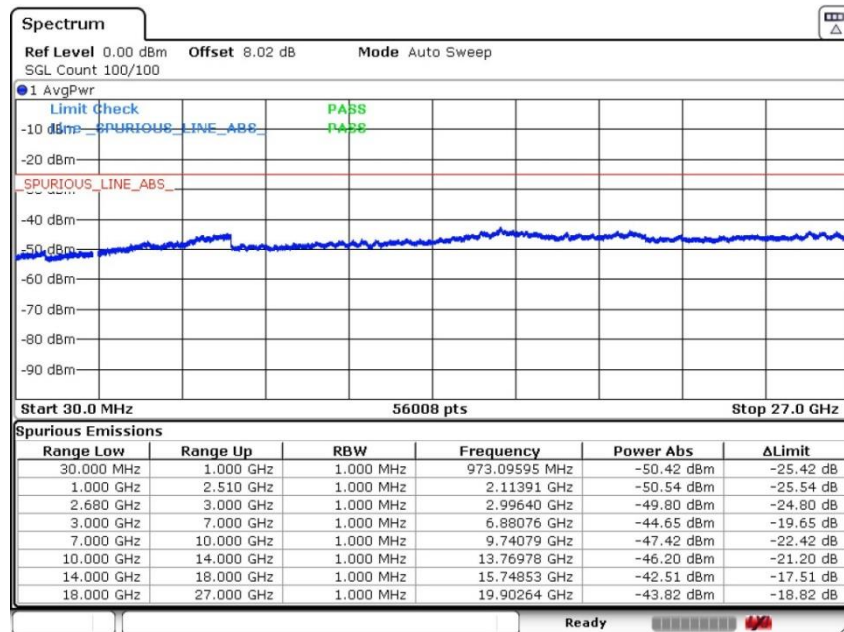
Date: 5.JAN.2021 10:39:24

Middle Channel / QPSK



Date: 5.JAN.2021 10:38:30

Highest Channel / QPSK

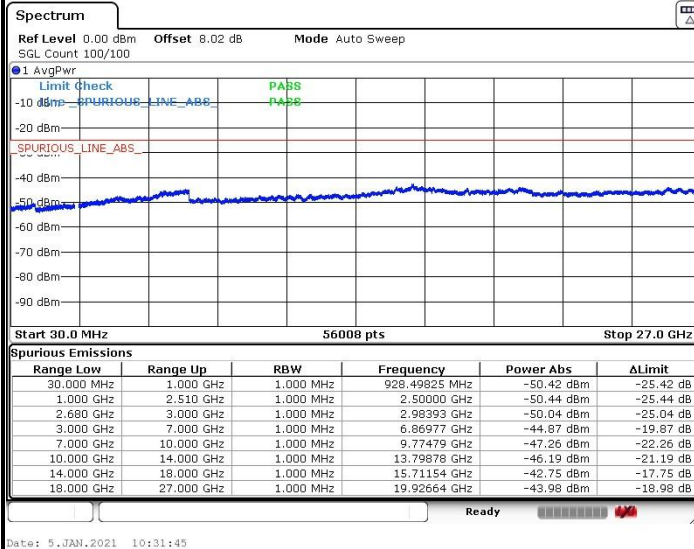


Date: 5.JAN.2021 10:37:26

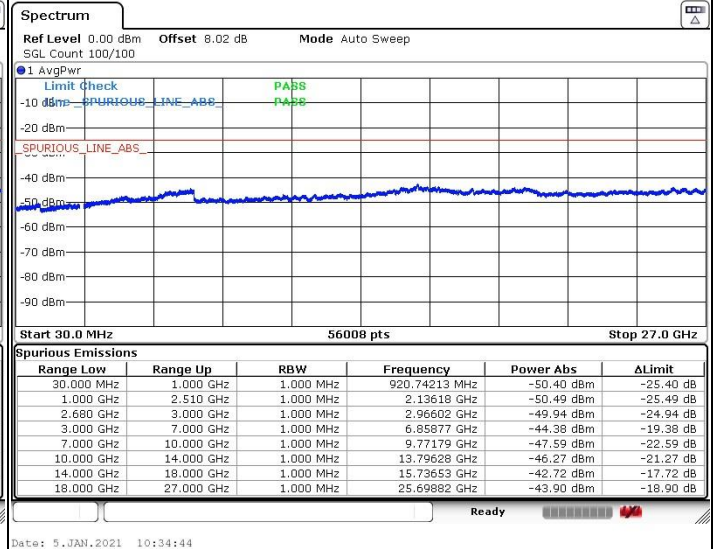


LTE Band 41 / 20MHz

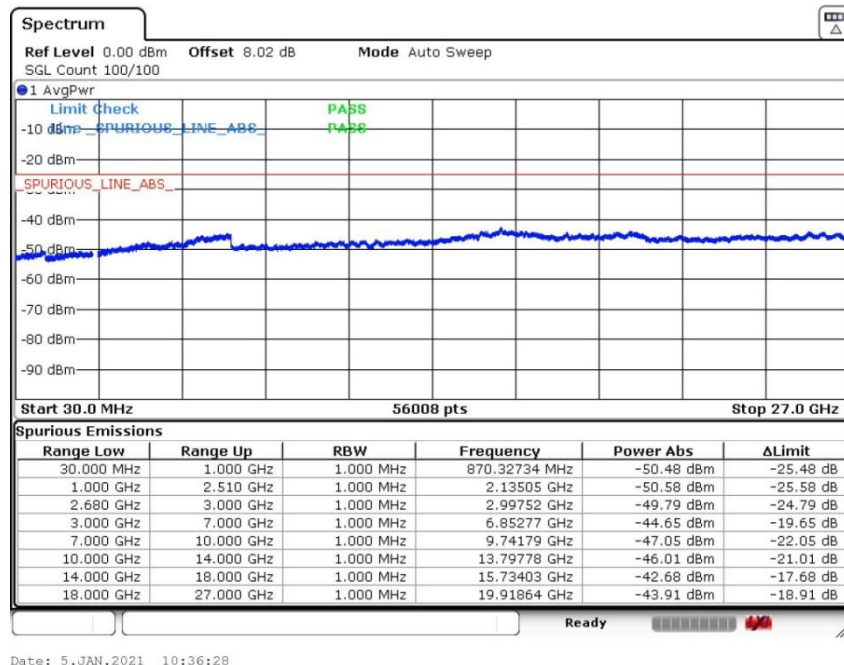
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK



**Frequency Stability**

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0049	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.87V. ; Battery End Point (BEP) =3.6 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	-44.87	-13	-31.87	-50.82	2.39	8.34	H
	5613.27	-52.62	-13	-39.62	-59.05	2.97	9.40	H
	7488	-46.72	-13	-33.72	-54.66	3.40	11.34	H
	9355.45	-44.80	-13	-31.80	-53.15	3.89	12.24	H
	11226	-41.22	-13	-28.22	-49.39	4.27	12.44	H
	3741	-45.28	-13	-32.28	-51.23	2.39	8.34	V
	5613.27	-51.99	-13	-38.99	-58.42	2.97	9.40	V
	7488	-48.38	-13	-35.38	-56.32	3.40	11.34	V
	9355.45	-45.00	-13	-32.00	-53.35	3.89	12.24	V
	11226.54	-43.70	-13	-30.70	-51.87	4.27	12.44	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)
Middle	3444	-48.89	-13	-35.89	-54.79	2.29	8.19	H
	5172	-52.87	-13	-39.87	-59.44	2.84	9.41	H
	6894.36	-51.54	-13	-38.54	-58.65	3.3	10.41	H
	8617.95	-40.59	-13	-27.59	-49.76	3.7	12.87	H
	10341	-45.06	-13	-32.06	-53.20	4.06	12.2	H
	3444	-50.95	-13	-37.95	-56.85	2.29	8.19	V
	5172	-53.15	-13	-40.15	-59.72	2.84	9.41	V
	6894.36	-51.37	-13	-38.37	-58.48	3.3	10.41	V
	8617.95	-44.19	-13	-31.19	-53.36	3.7	12.87	V
	10341	-44.49	-13	-31.49	-52.63	4.06	12.20	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	-63.42	-13	-50.42	-64.87	1.58	5.18	H
	2496	-58.05	-13	-45.05	-61.07	1.94	7.11	H
	3330	-55.33	-13	-42.33	-59.01	2.26	8.09	H
	1664	-62.15	-13	-49.15	-63.60	1.58	5.18	V
	2496.27	-56.52	-13	-43.52	-59.54	1.94	7.11	V
	3330	-55.66	-13	-42.66	-59.34	2.26	8.09	V

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

LTE Band 26 / 15MHz / 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	1660	-63.69	-13	-50.69	-65.14	1.58	5.18	H
	2489.52	-58.02	-13	-45.02	-61.04	1.94	7.11	H
	3318	-58.12	-13	-45.12	-61.80	2.26	8.09	H
	1660	-63.61	-13	-50.61	-65.06	1.58	5.18	V
	2489.52	-57.51	-13	-44.51	-60.53	1.94	7.11	V
	3318	-57.57	-13	-44.57	-61.25	2.26	8.09	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)
Middle	5170	-58.84	-25	-33.84	-65.45	2.79	9.40	H
	7752.27	-58.22	-25	-33.22	-66.26	3.42	11.46	H
	10332	-58.28	-25	-33.28	-66.41	4.00	12.13	H
	12924	-40.38	-25	-15.38	-50.30	4.44	14.36	H
	5170	-61.09	-25	-36.09	-67.70	2.79	9.40	V
	7752.27	-58.72	-25	-33.72	-66.76	3.42	11.46	V
	10332	-58.28	-25	-33.28	-66.41	4.00	12.13	V
	12924	-46.73	-25	-21.73	-56.65	4.44	14.36	V

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



Appendix D. Reference Report

Please refer to Sporton report number FG0N2517-01B which is issued separately.