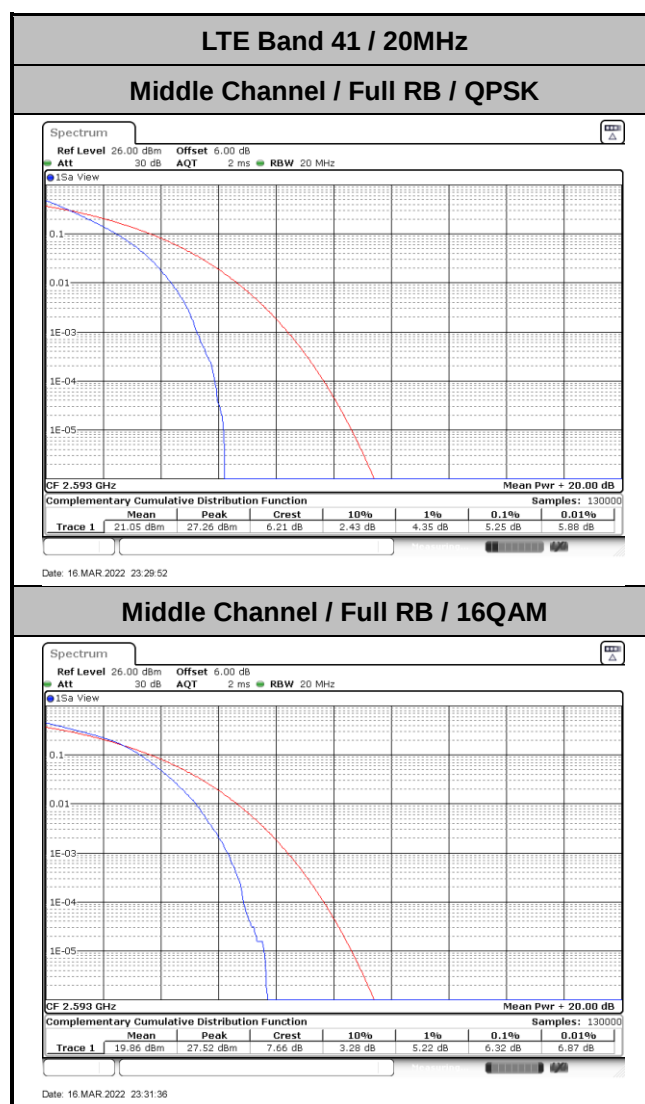


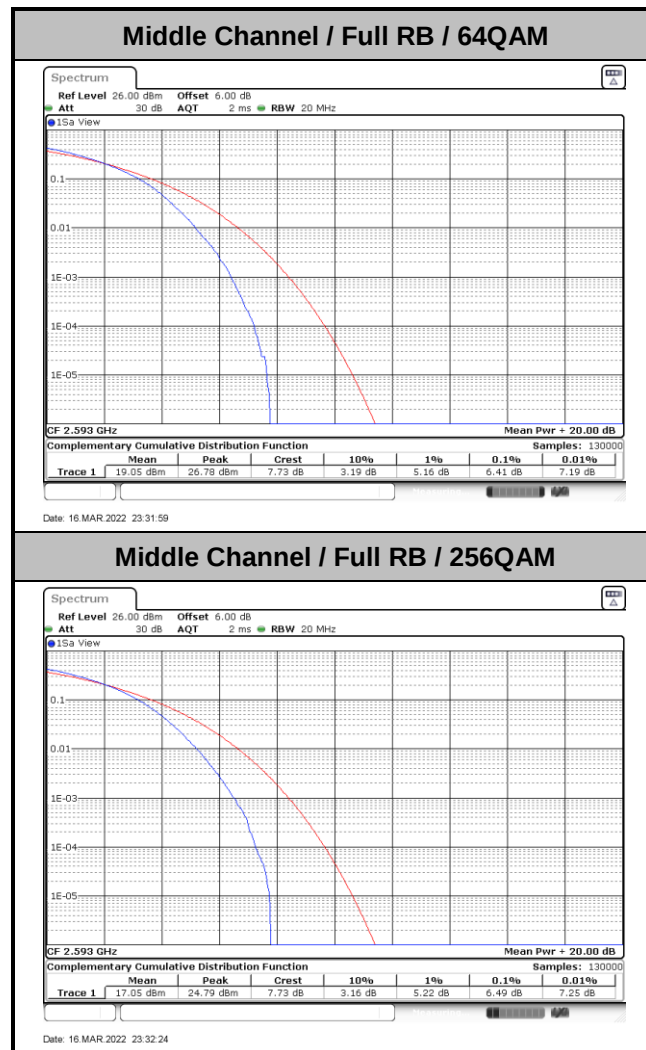


LTE Band 41

Peak-to-Average Ratio

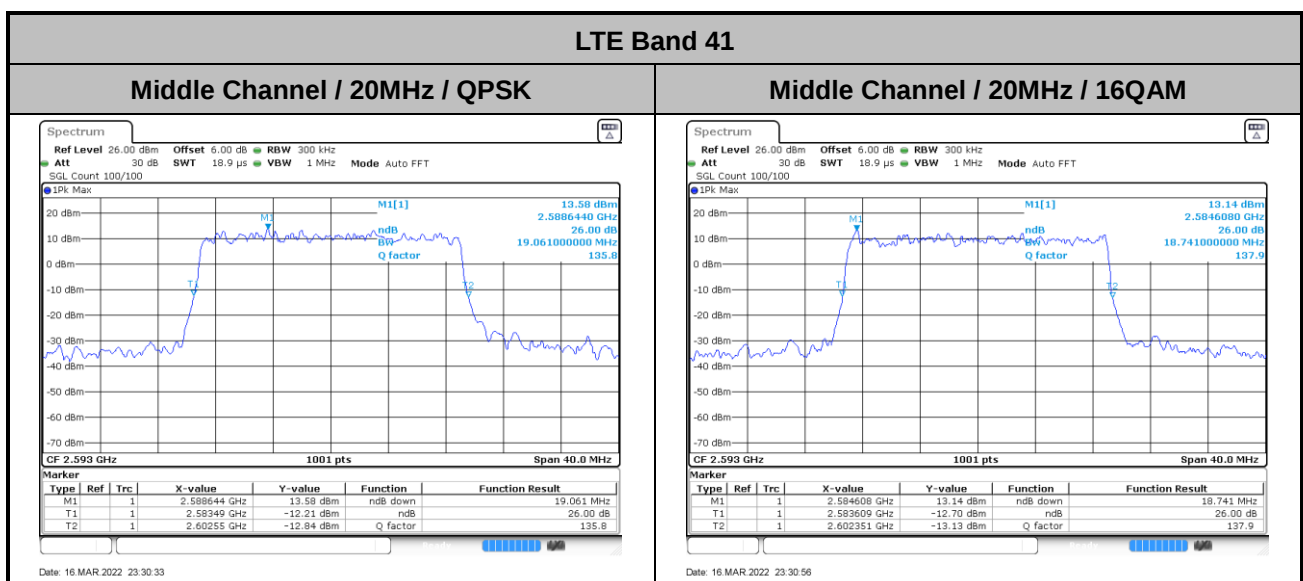
Mode	LTE Band 41 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.25	6.32	6.41	6.49	PASS





**26dB Bandwidth**

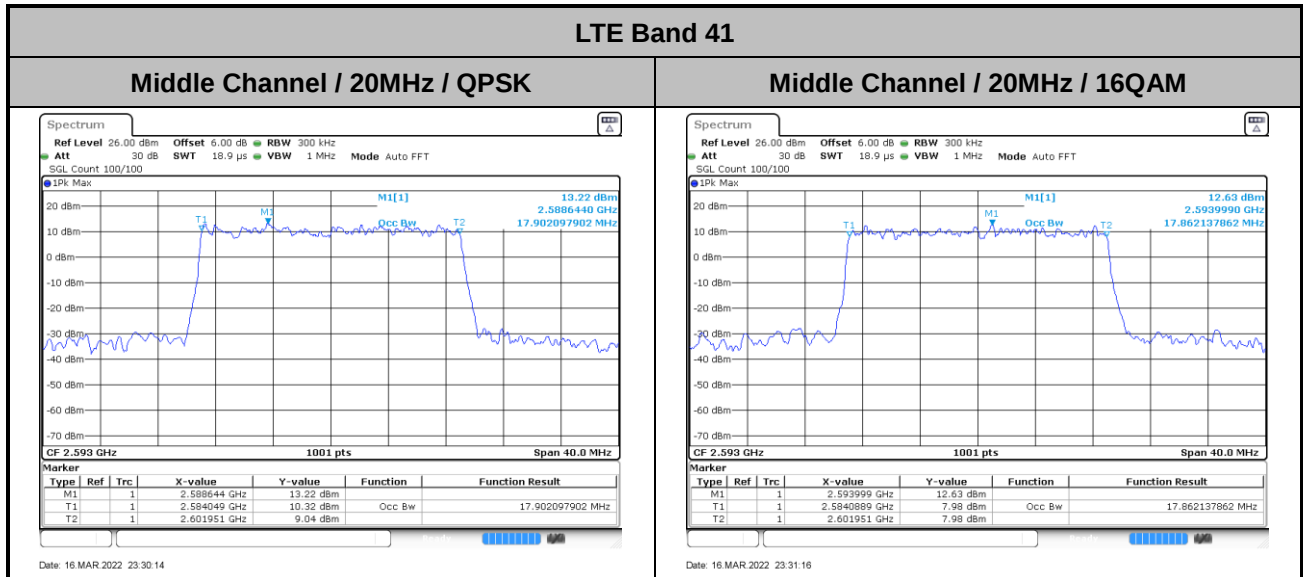
Mode	LTE Band 41 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.06	18.74

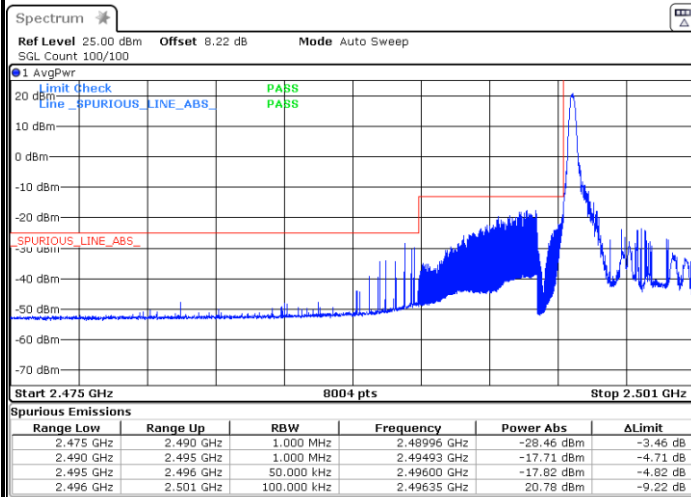
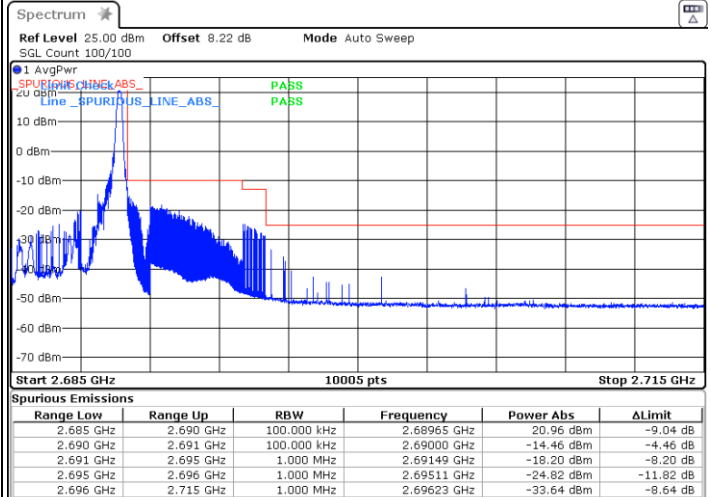
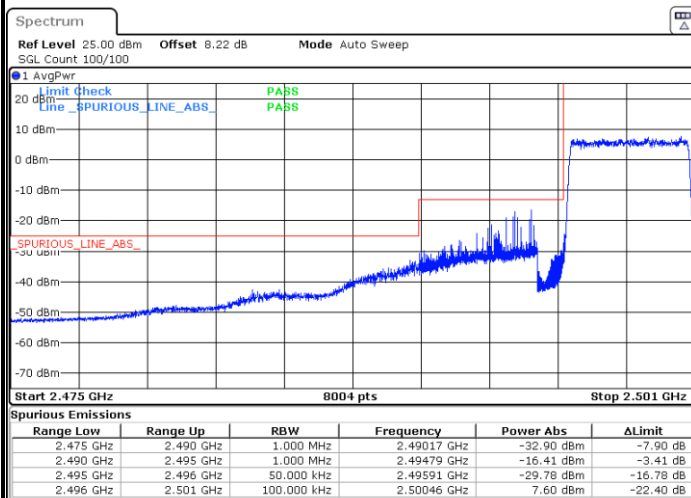
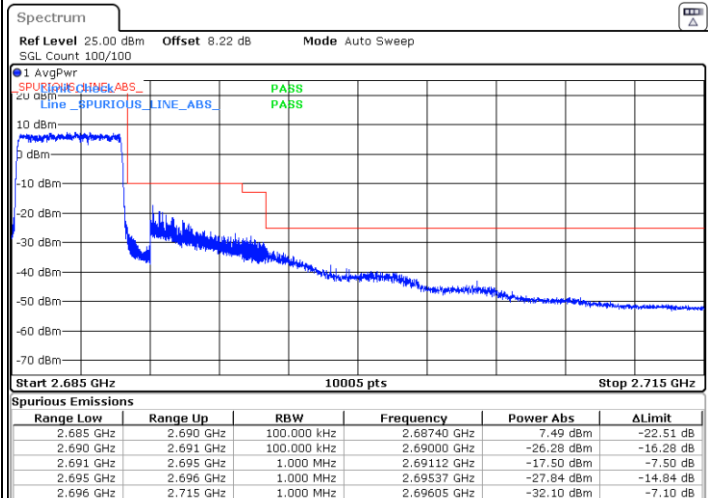




Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.86

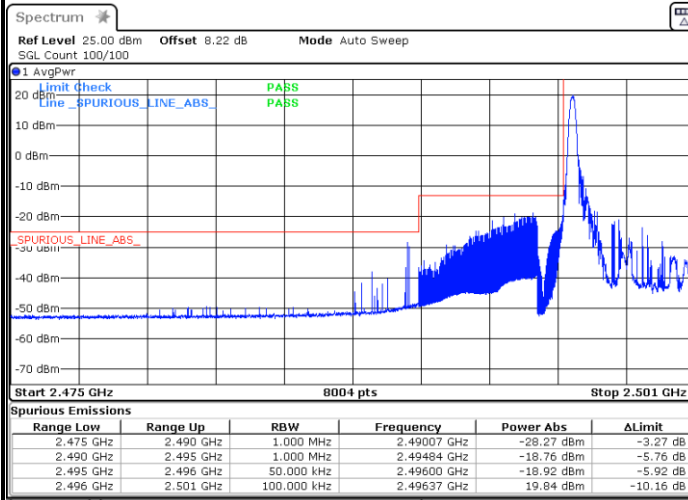


**Conducted Band Edge****LTE Band 41 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



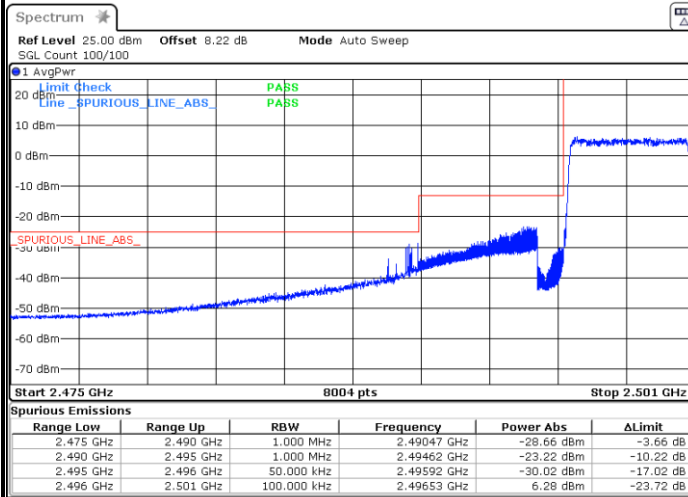
Date: 16.MAR.2022 21:20:49

Highest Band Edge / 1 RB



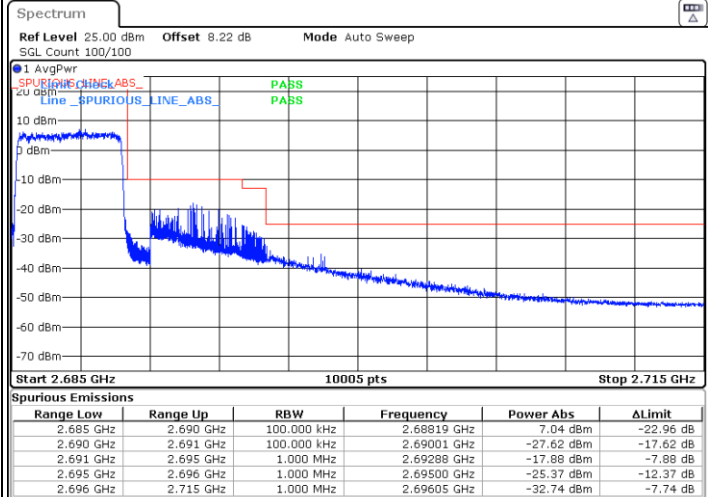
Date: 16.MAR.2022 21:44:28

Lowest Band Edge / Full RB



Date: 16.MAR.2022 21:29:46

Highest Band Edge / Full RB

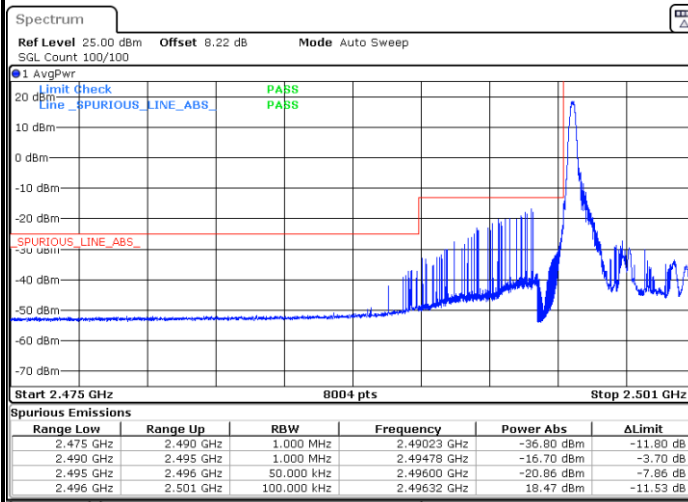


Date: 16.MAR.2022 21:36:30

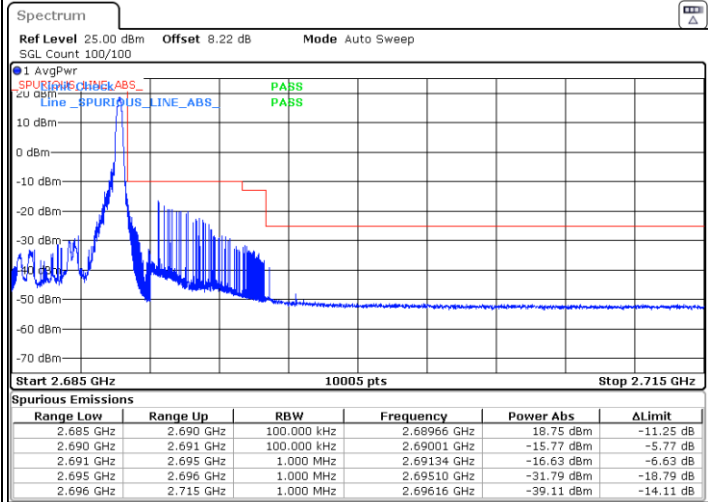


LTE Band 41 / 5MHz / 64QAM

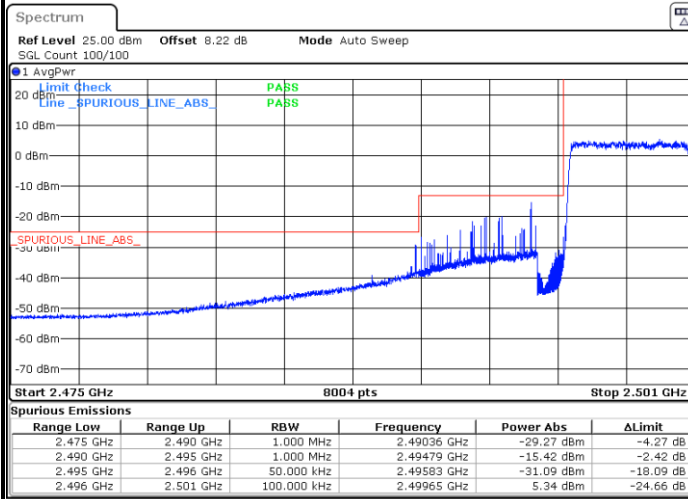
Lowest Band Edge / 1RB



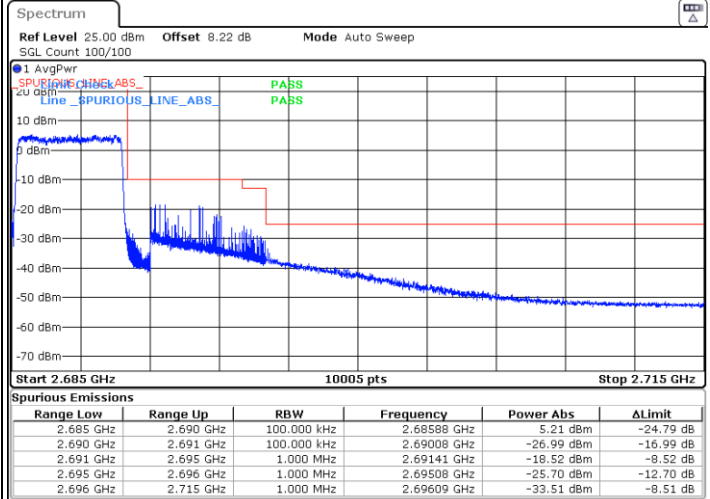
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



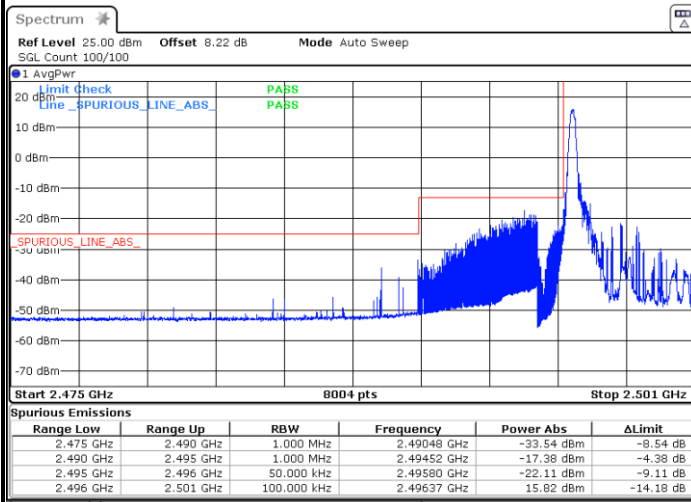
Highest Band Edge / Full RB





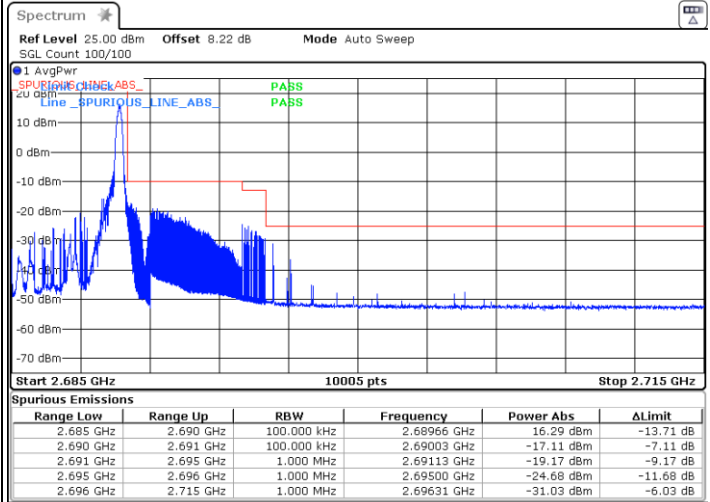
LTE Band 41 / 5MHz / 256QAM

Lowest Band Edge / 1RB



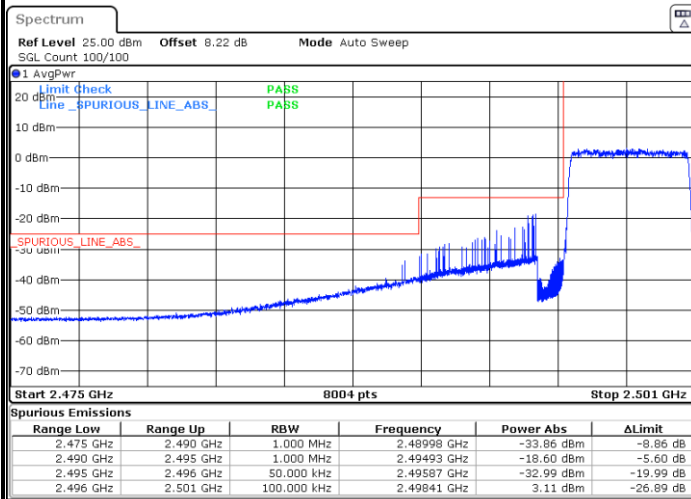
Date: 16.MAR.2022 21:23:31

Highest Band Edge / 1 RB



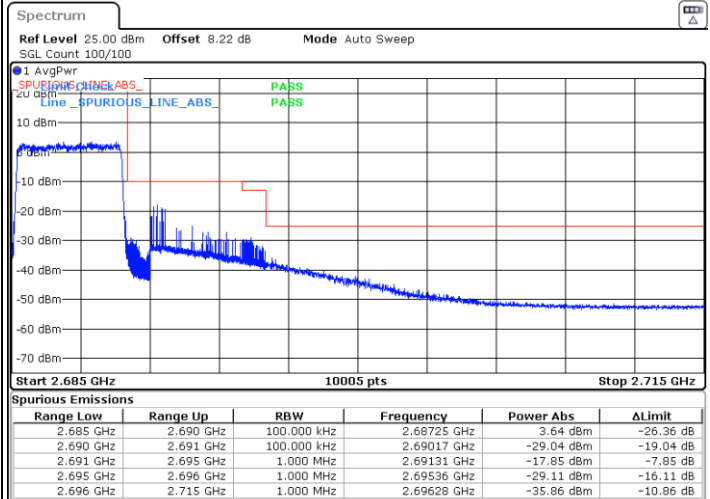
Date: 16.MAR.2022 21:41:46

Lowest Band Edge / Full RB



Date: 16.MAR.2022 21:24:52

Highest Band Edge / Full RB

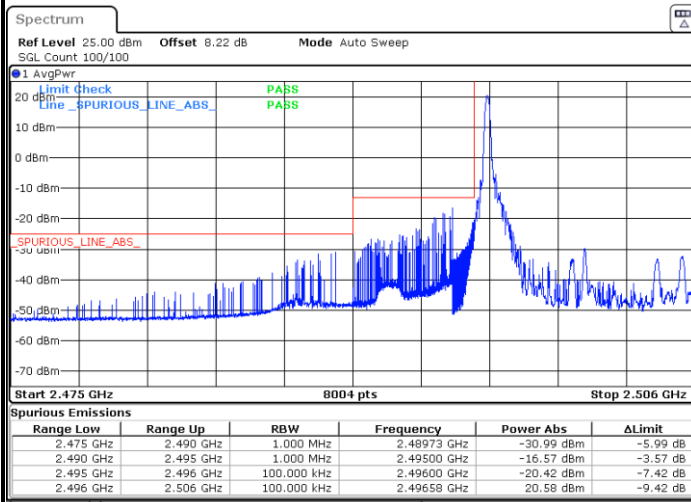


Date: 16.MAR.2022 21:39:11

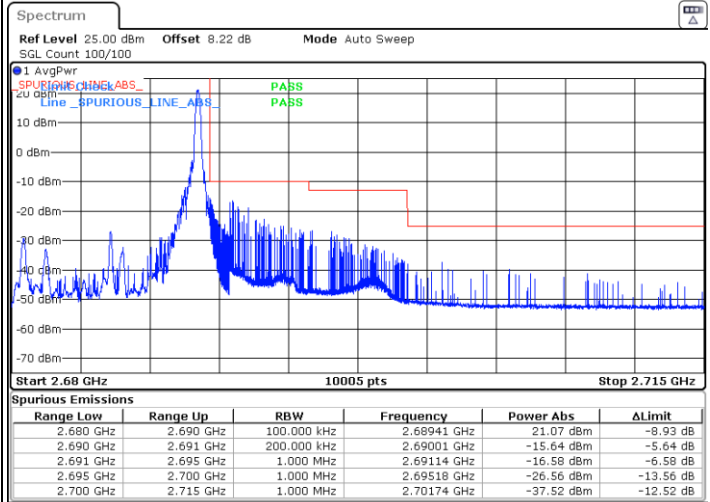


LTE Band 41 / 10MHz / QPSK

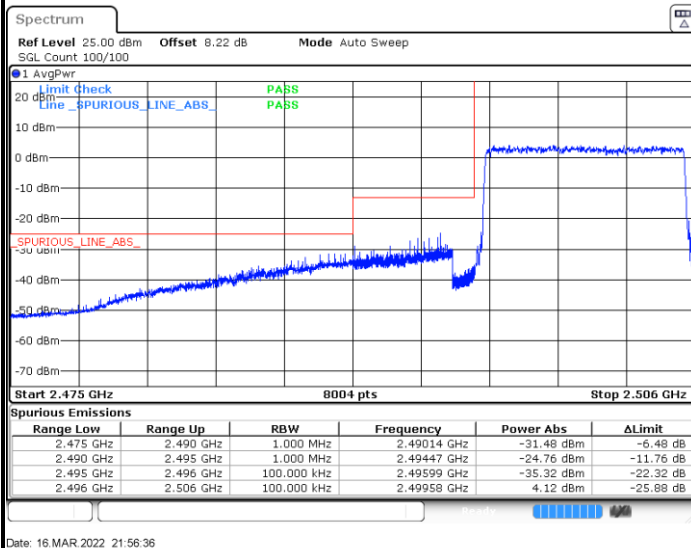
Lowest Band Edge / 1 RB



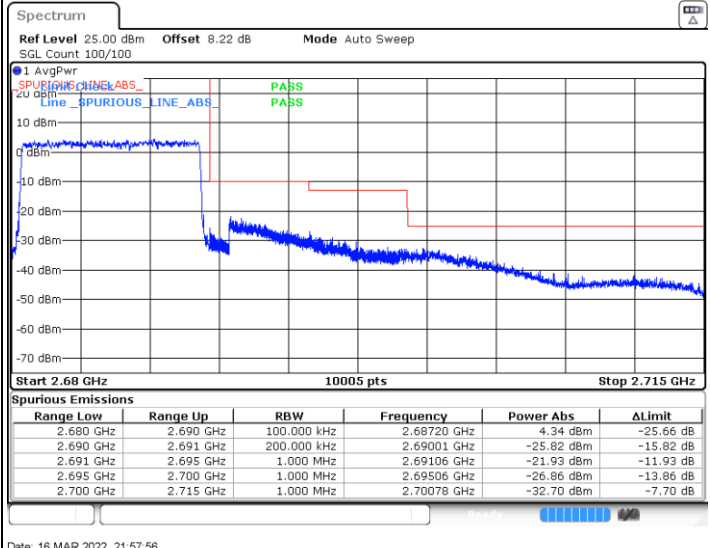
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



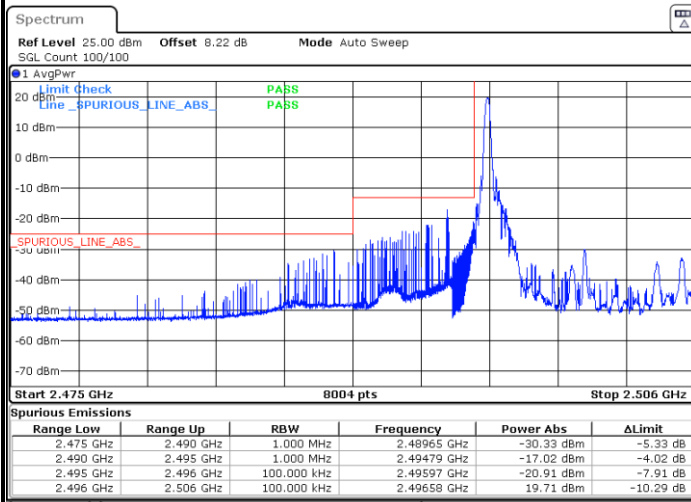
Highest Band Edge / Full RB



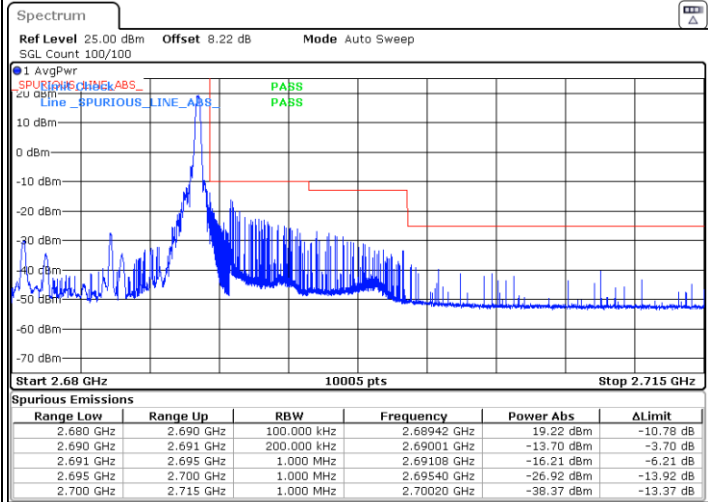


LTE Band 41 / 10MHz / 16QAM

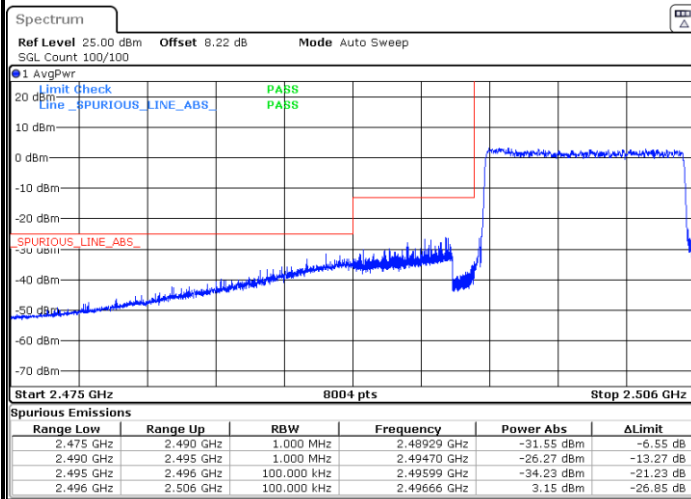
Lowest Band Edge / 1 RB



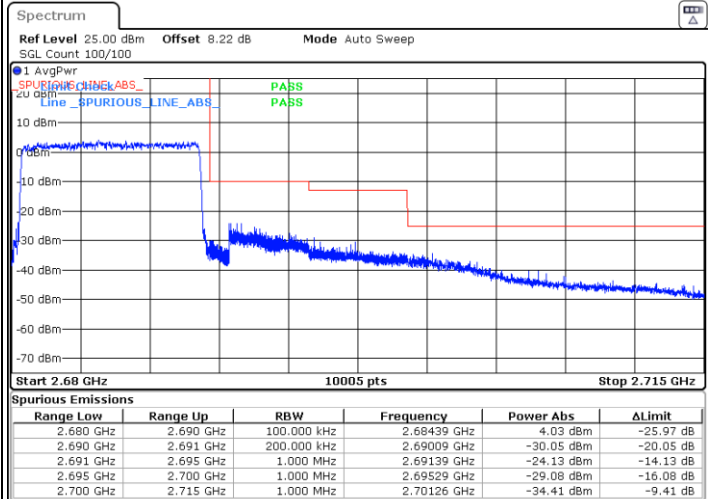
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



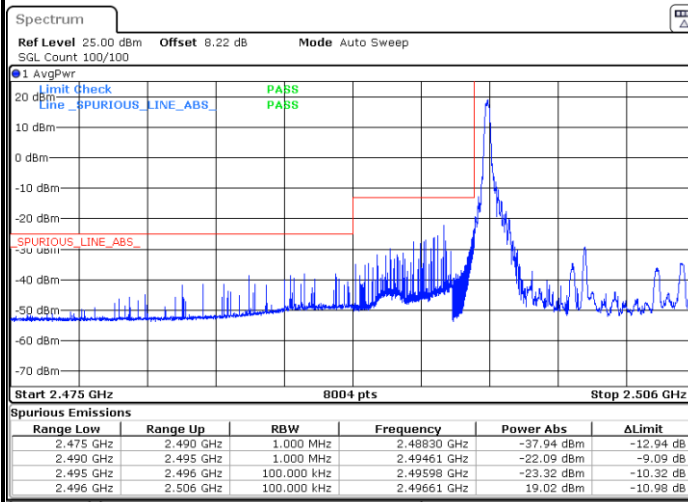
Highest Band Edge / Full RB



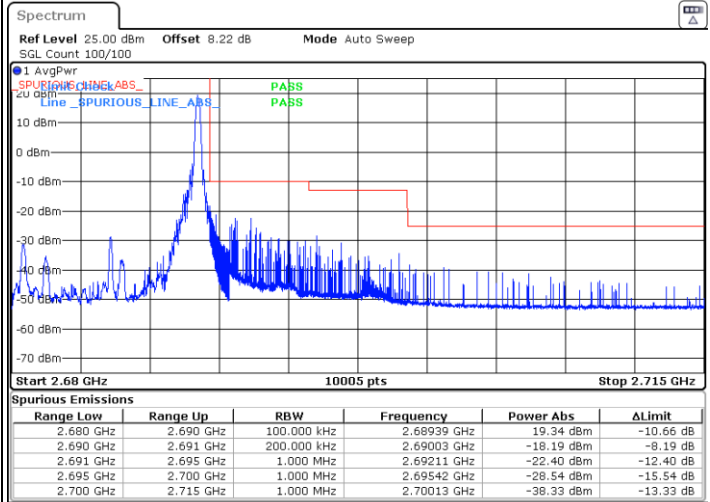


LTE Band 41 / 10MHz / 64QAM

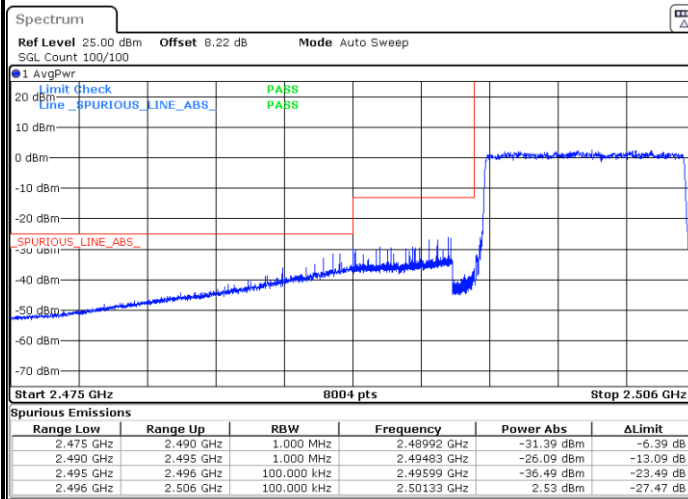
Lowest Band Edge / 1 RB



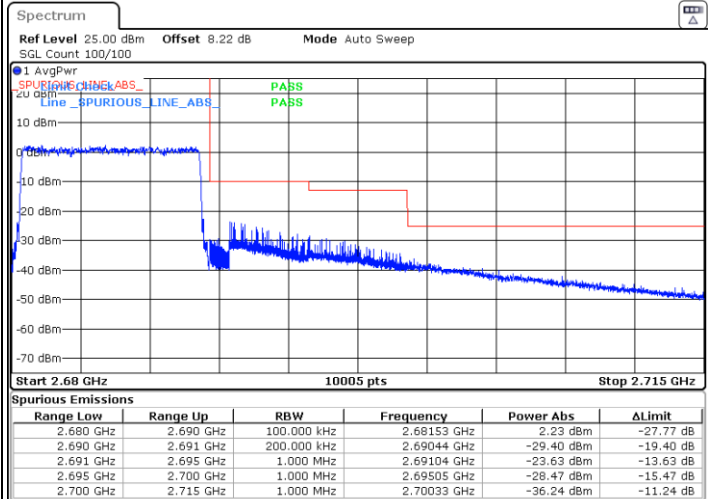
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



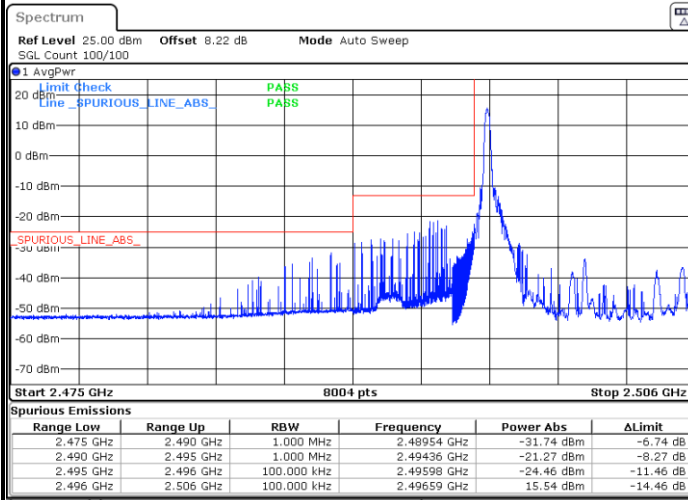
Highest Band Edge / Full RB



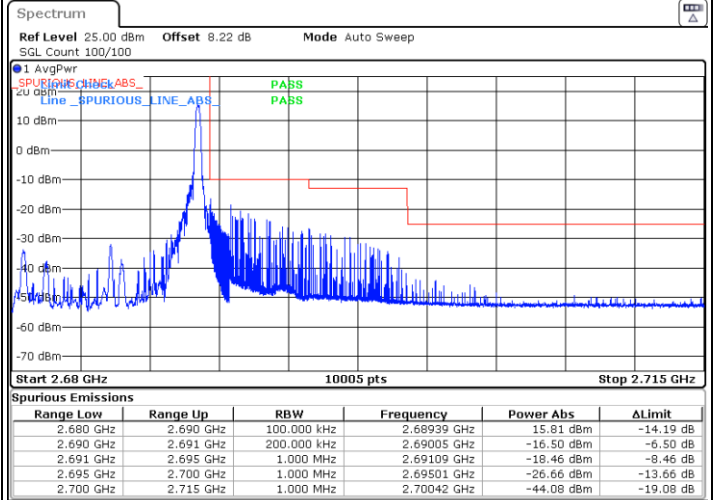


LTE Band 41 / 10MHz / 256QAM

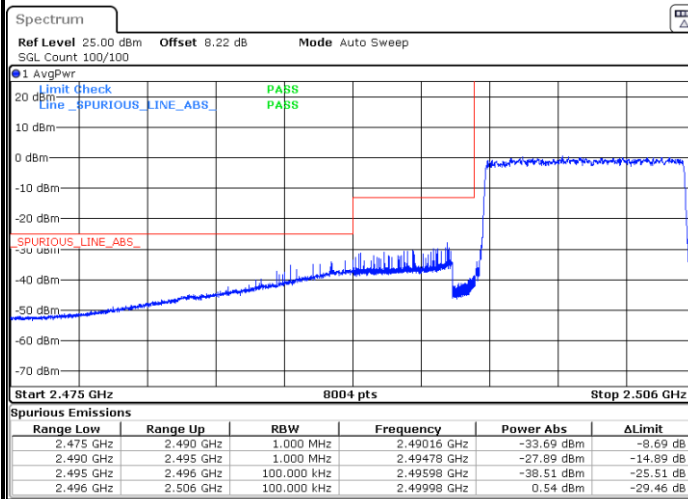
Lowest Band Edge / 1 RB



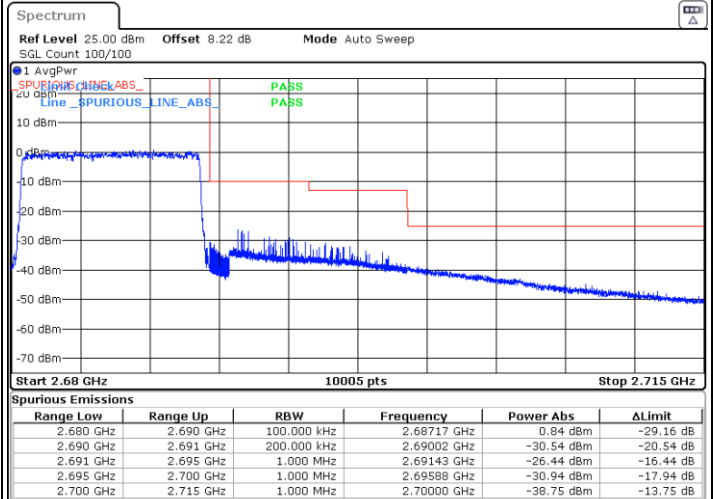
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



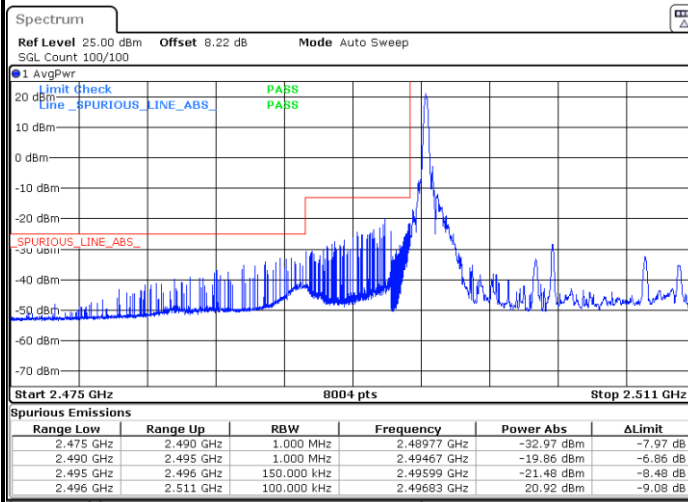
Highest Band Edge / Full RB





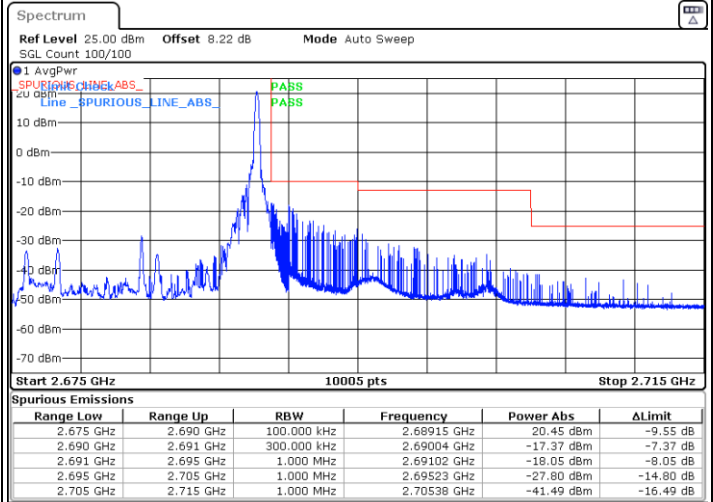
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



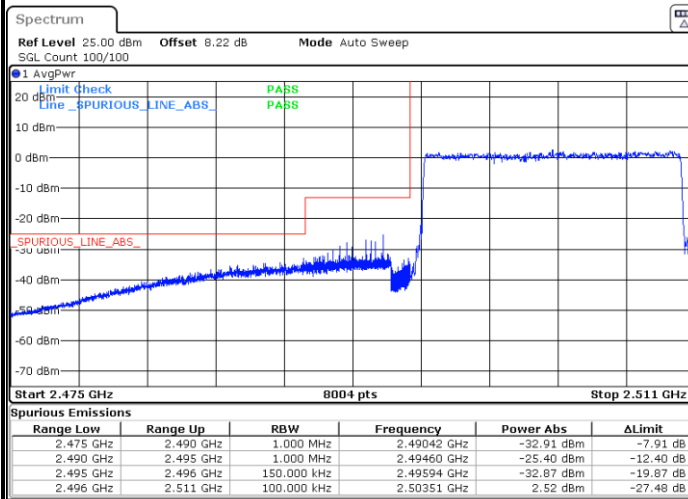
Date: 16 MAR 2022 22:09:57

Highest Band Edge / 1 RB



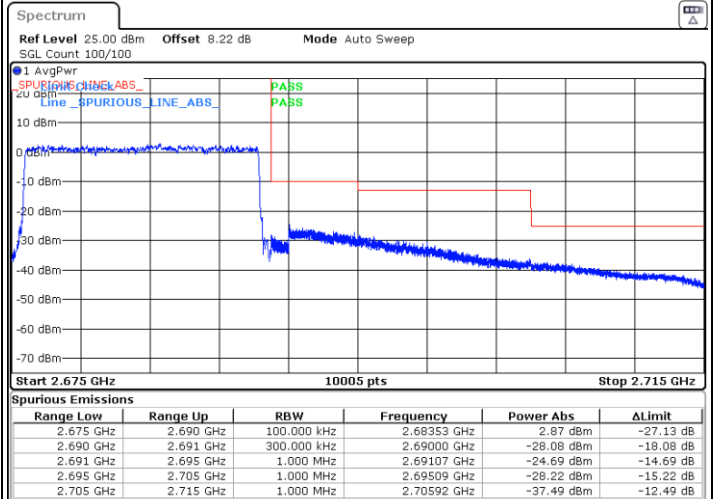
Date: 16 MAR 2022 22:30:05

Lowest Band Edge / Full RB



Date: 16 MAR 2022 22:19:22

Highest Band Edge / Full RB

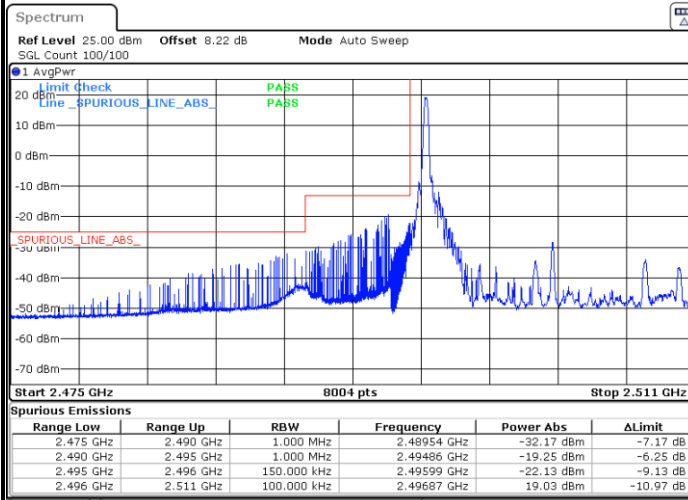


Date: 16 MAR 2022 22:20:42

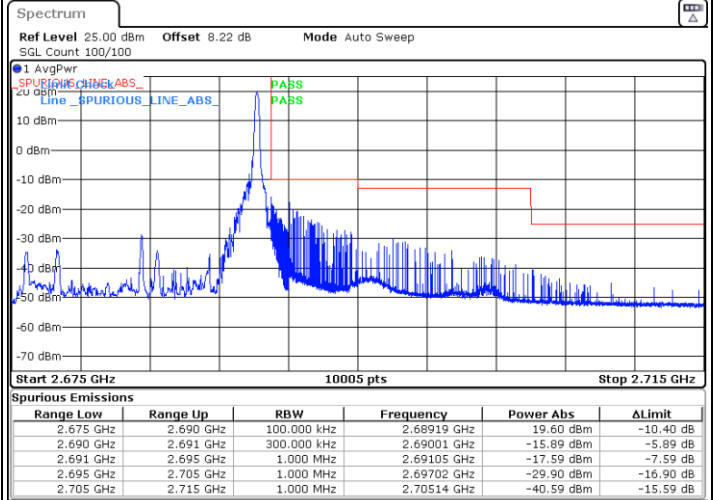


LTE Band 41 / 15MHz / 16QAM

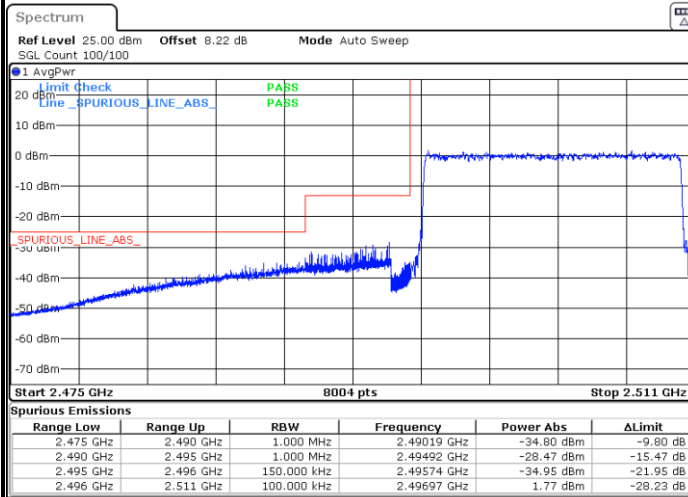
Lowest Band Edge / 1 RB



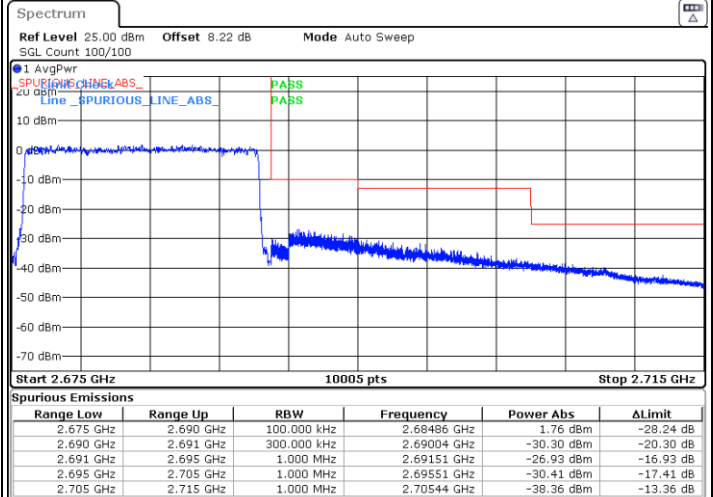
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



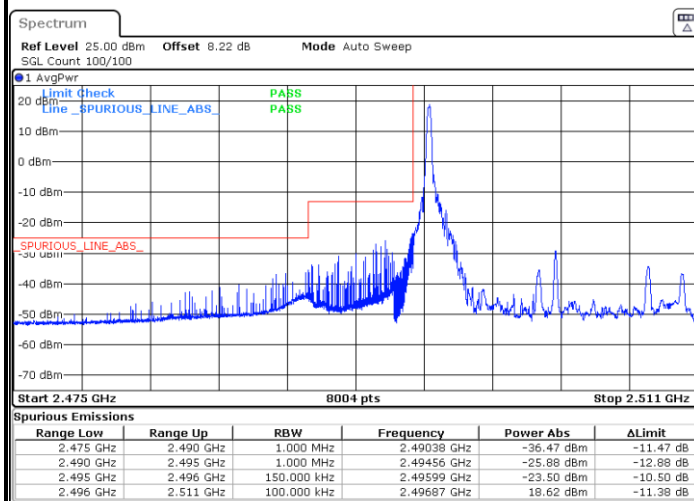
Highest Band Edge / Full RB



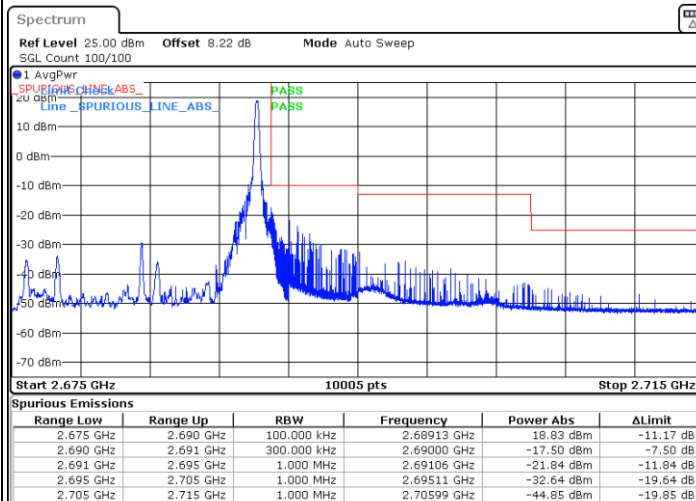


LTE Band 41 / 15MHz / 64QAM

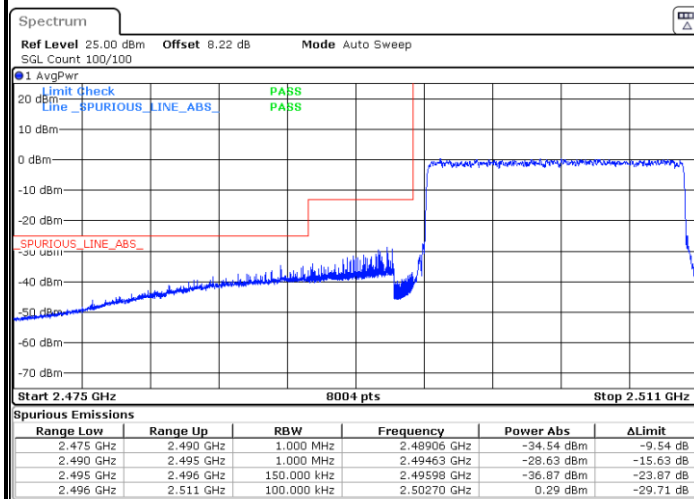
Lowest Band Edge / 1 RB



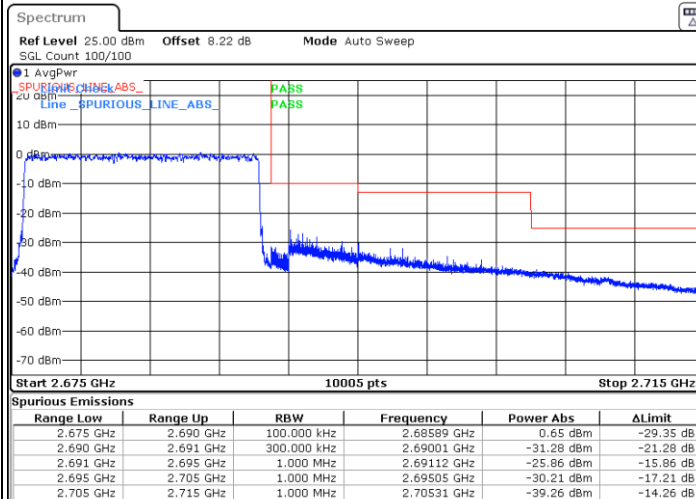
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



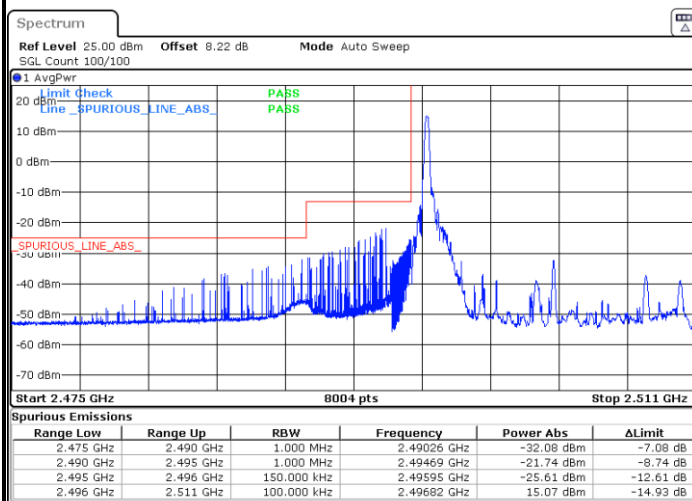
Highest Band Edge / Full RB



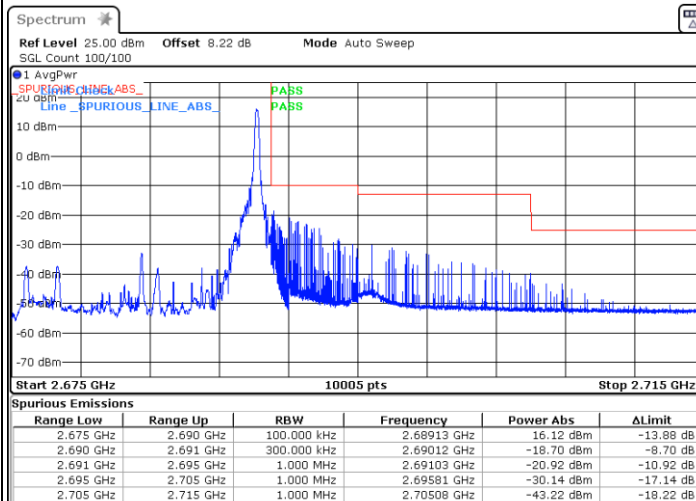


LTE Band 41 / 15MHz / 256QAM

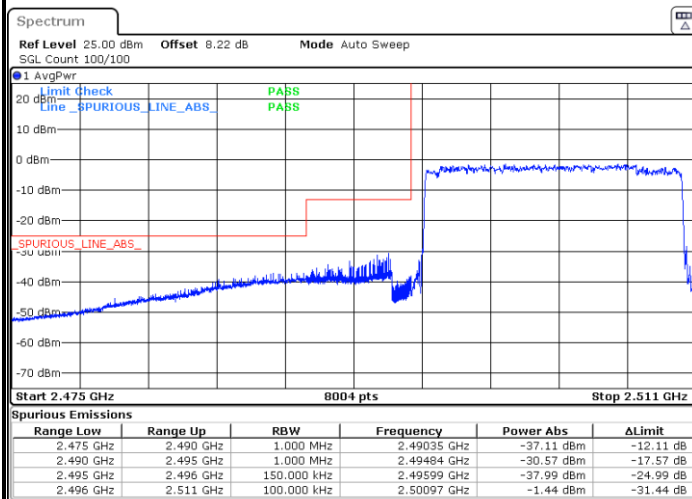
Lowest Band Edge / 1 RB



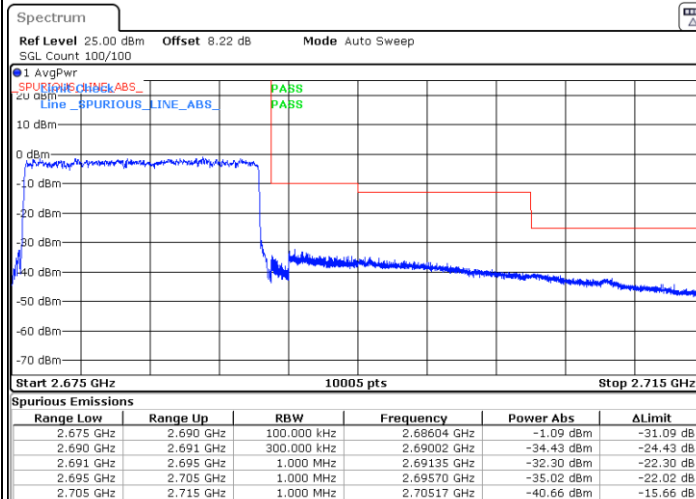
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



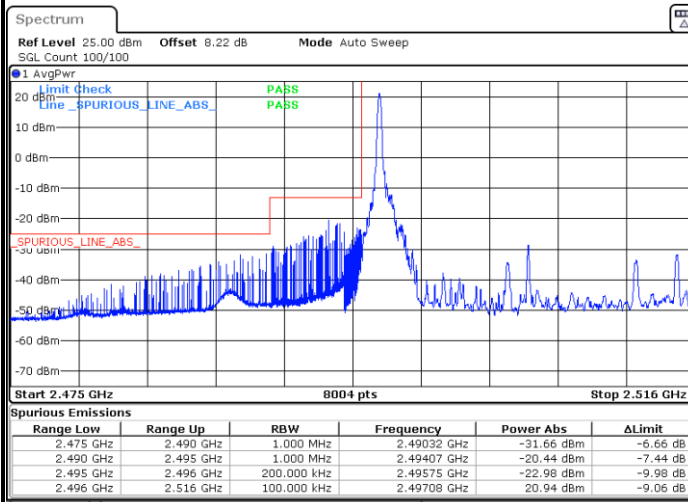
Highest Band Edge / Full RB



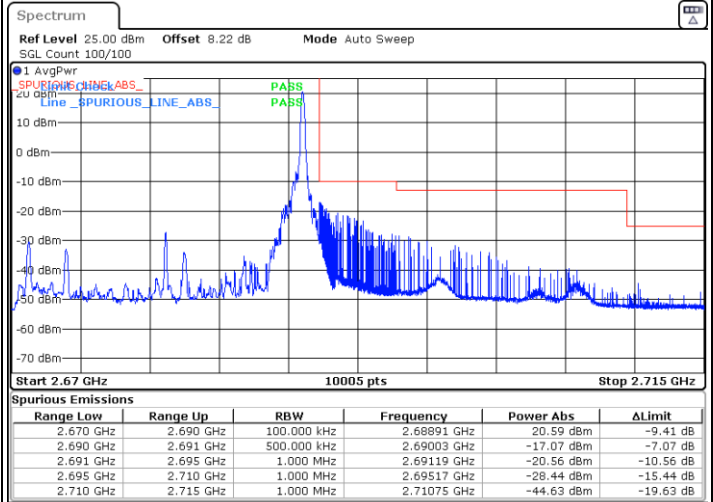


LTE Band 41 / 20MHz / QPSK

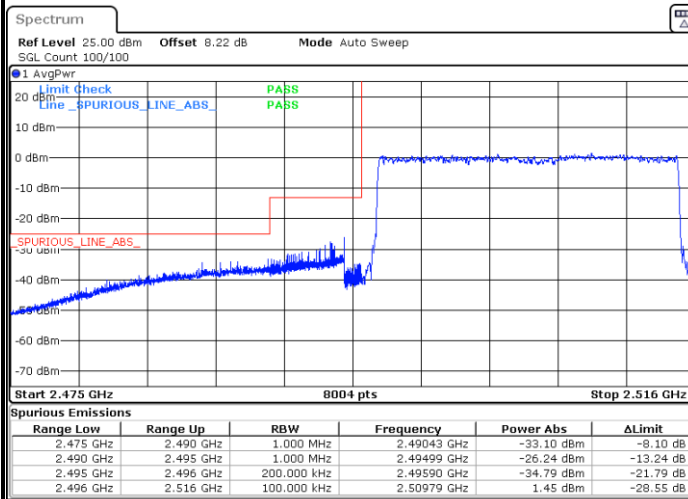
Lowest Band Edge / 1 RB



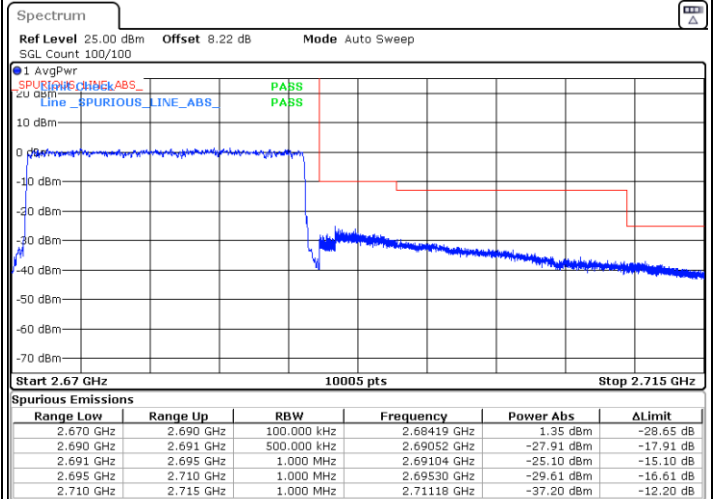
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



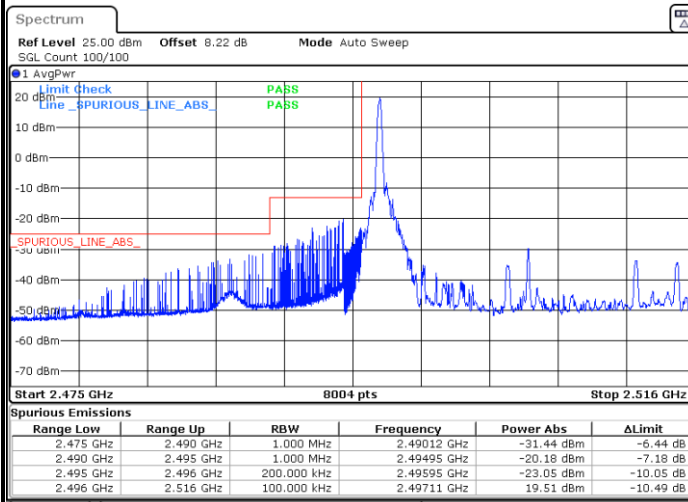
Highest Band Edge / Full RB



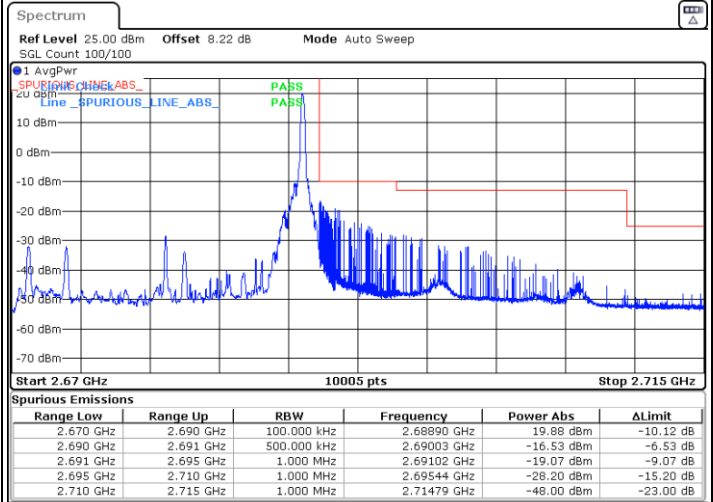


LTE Band 41 / 20MHz / 16QAM

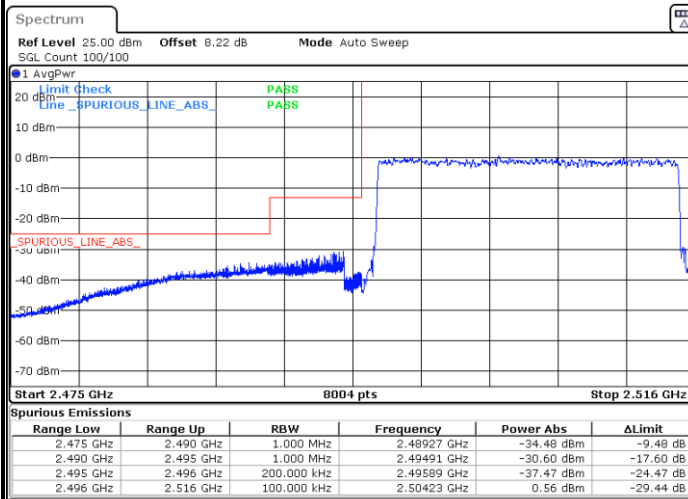
Lowest Band Edge / 1 RB



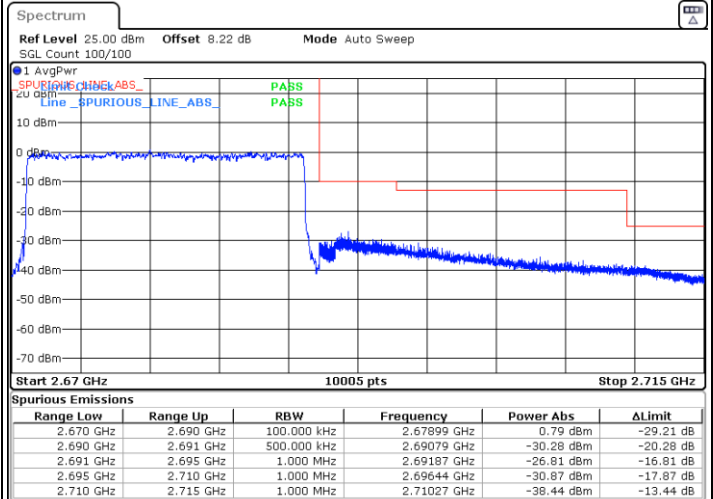
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



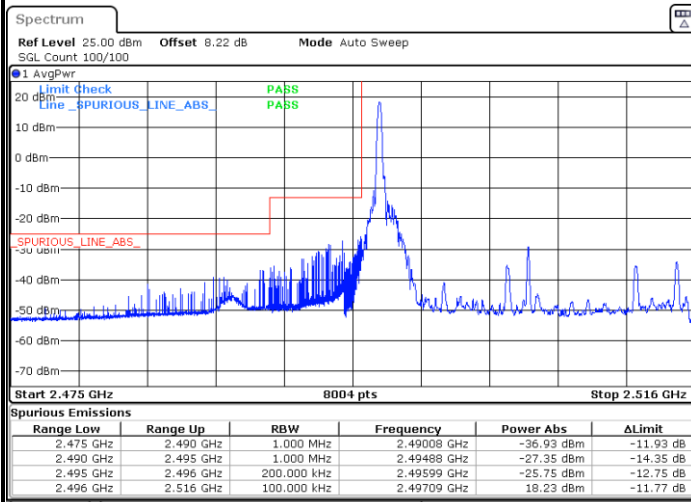
Highest Band Edge / Full RB





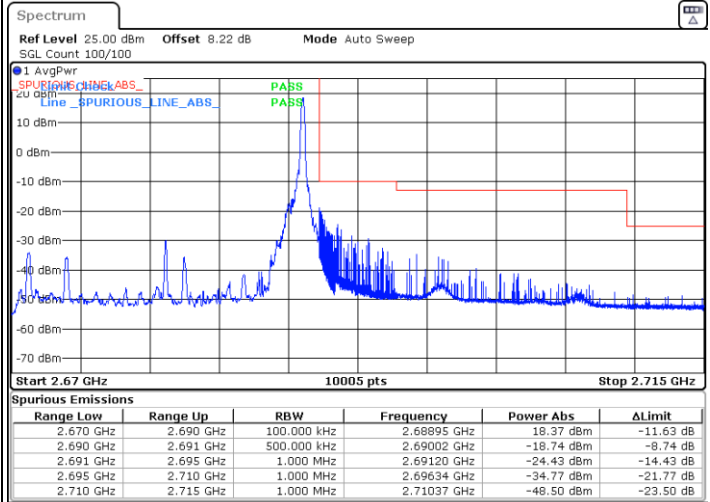
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



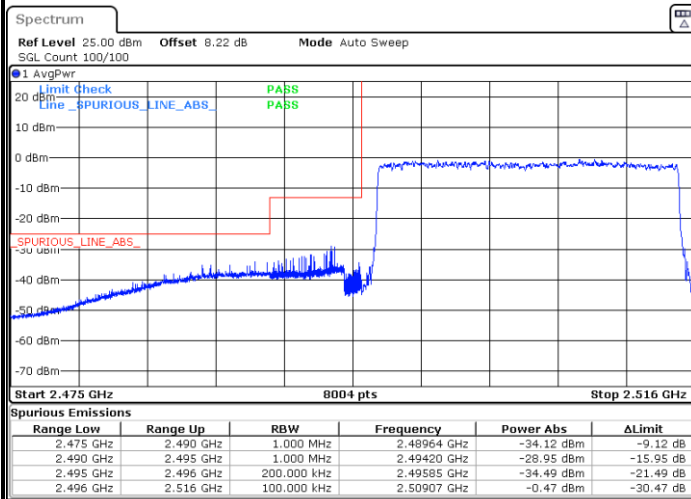
Date: 16 MAR 2022 22:34:09

Highest Band Edge / 1 RB



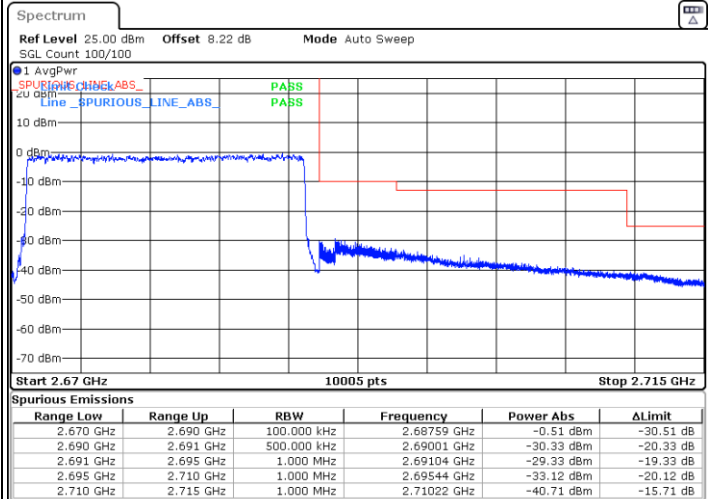
Date: 16 MAR 2022 23:23:58

Lowest Band Edge / Full RB



Date: 16 MAR 2022 22:38:33

Highest Band Edge / Full RB

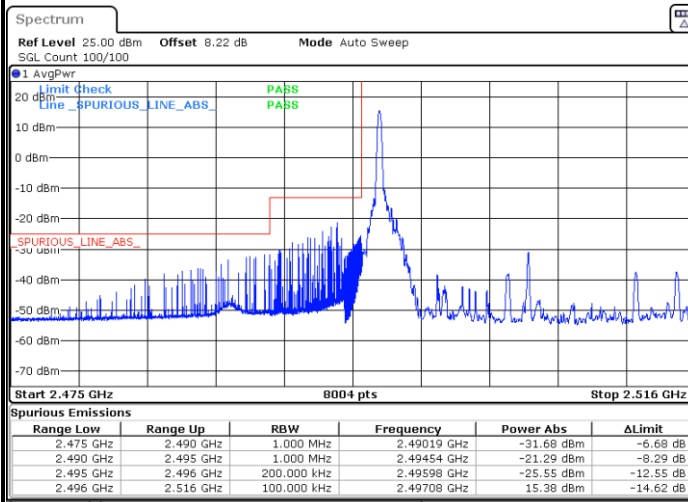


Date: 16 MAR 2022 22:45:15

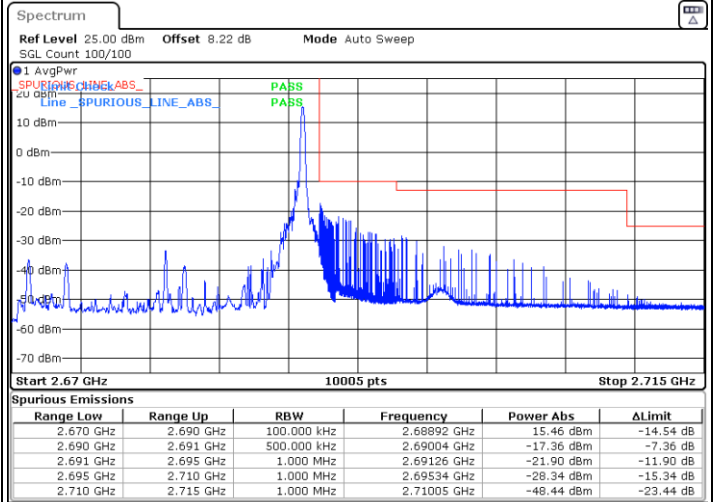


LTE Band 41 / 20MHz / 256QAM

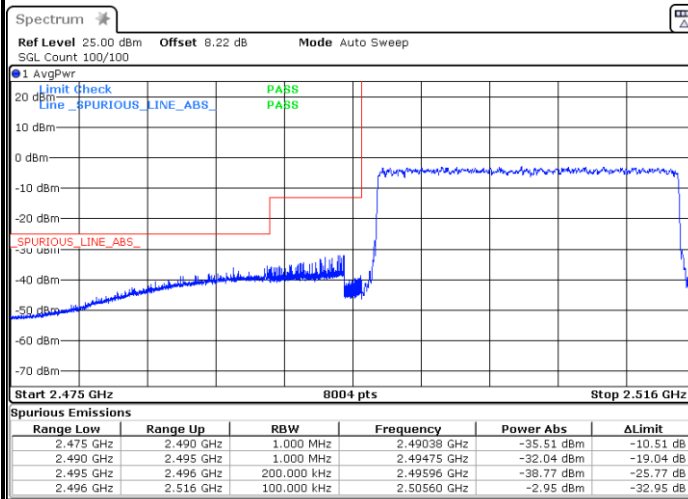
Lowest Band Edge / 1 RB



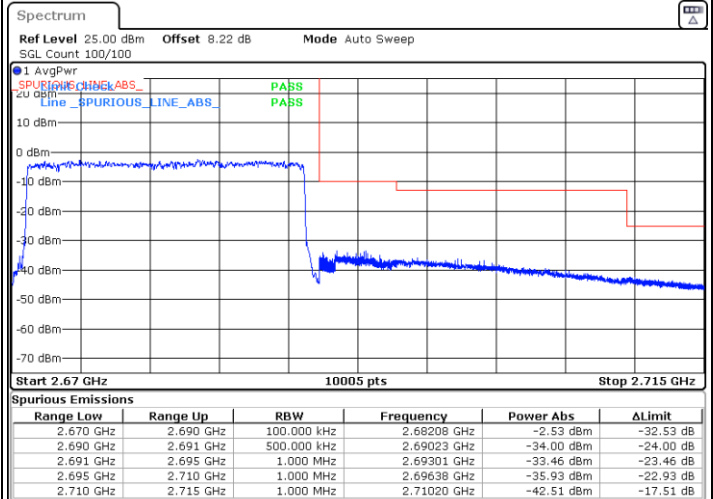
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

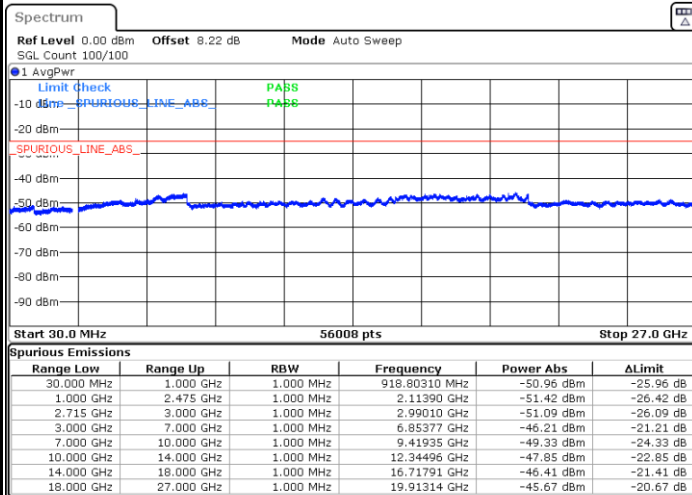




Conducted Spurious Emission

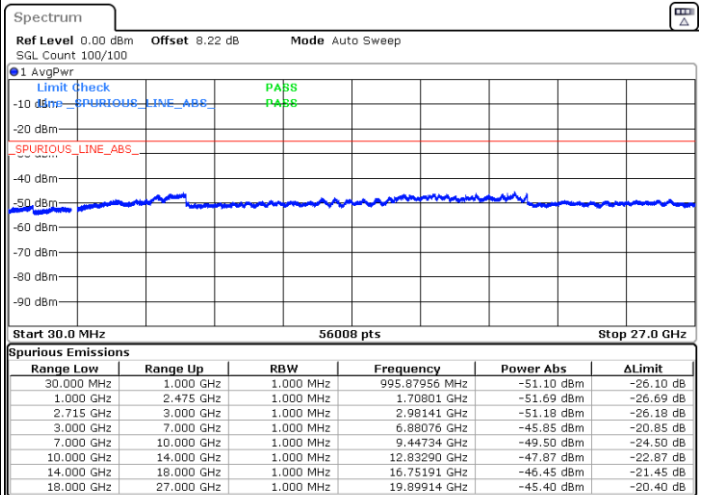
LTE Band 41 / 5MHz

Lowest Channel / QPSK



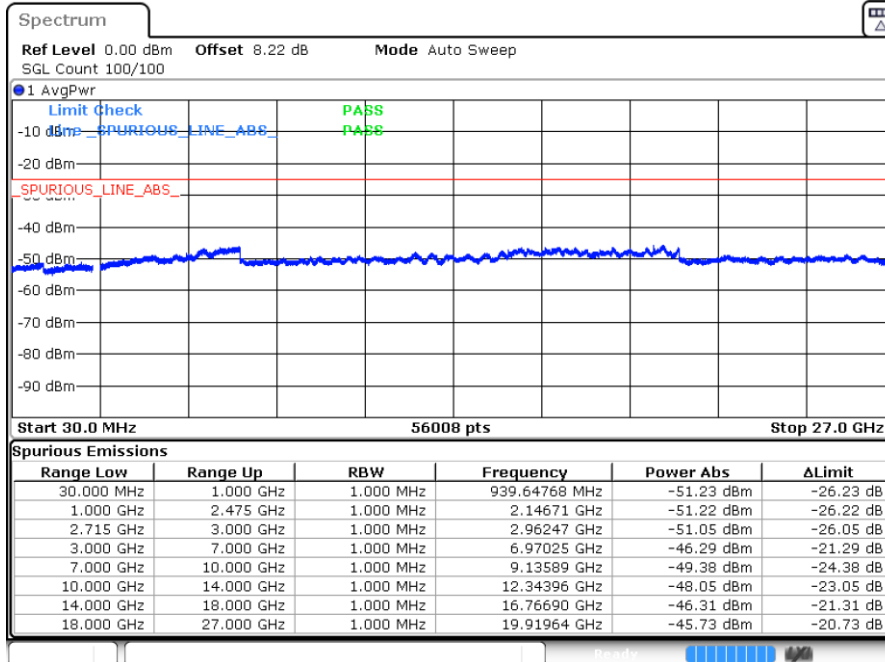
Date: 16.MAR.2022 23:43:25

Middle Channel / QPSK



Date: 16.MAR.2022 23:44:23

Highest Channel / QPSK

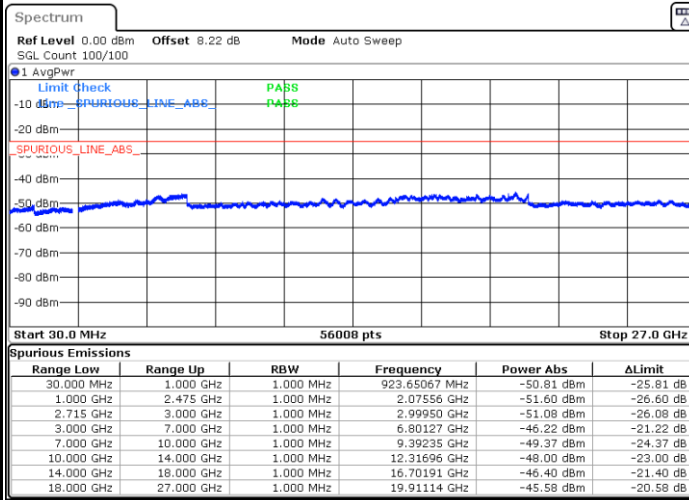


Date: 16.MAR.2022 23:45:21



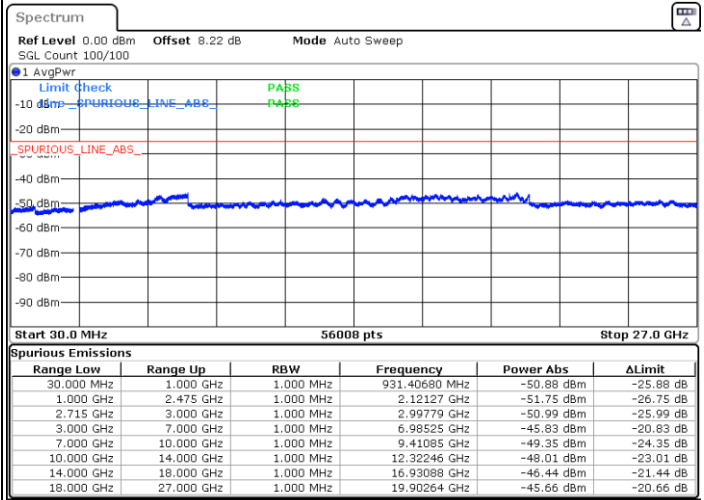
LTE Band 41 / 10MHz

Lowest Channel / QPSK



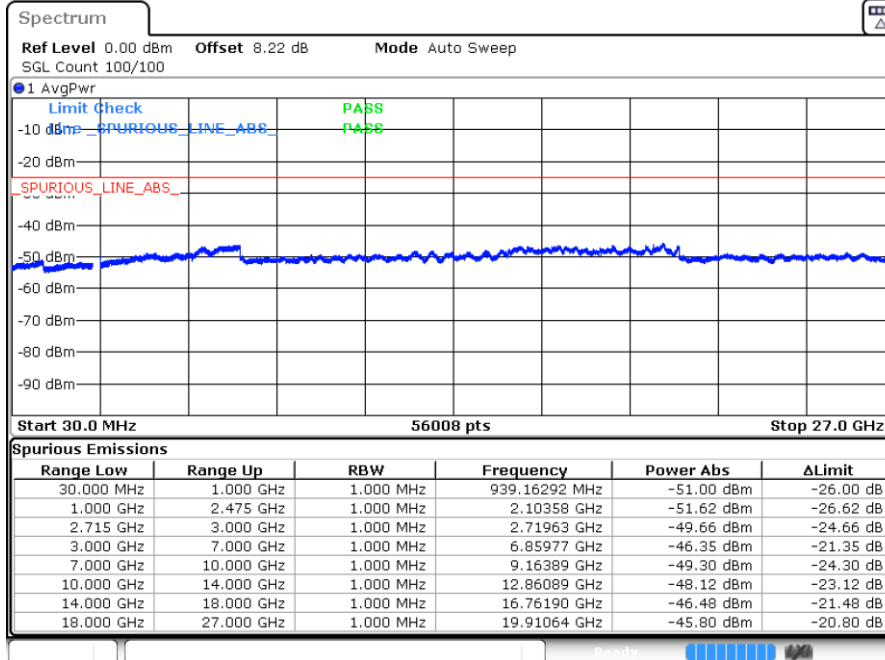
Date: 16 MAR 2022 23:40:18

Middle Channel / QPSK



Date: 16 MAR 2022 23:41:16

Highest Channel / QPSK

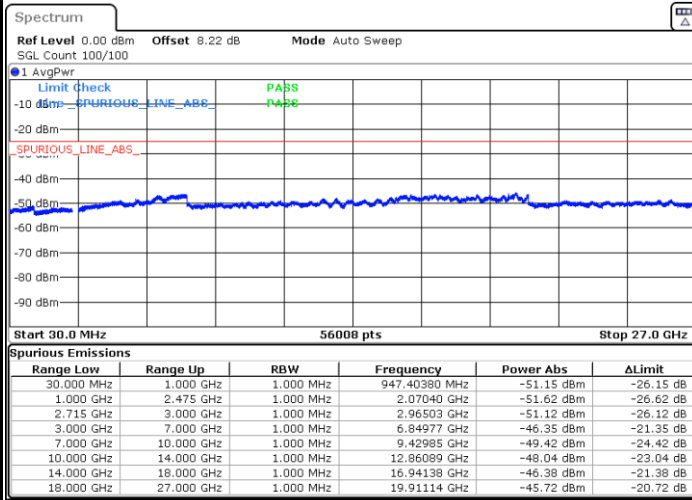


Date: 16.MAR.2022 23:42:15



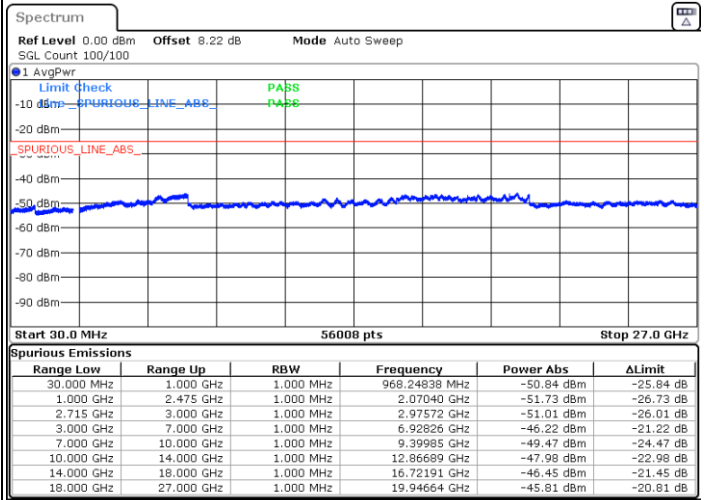
LTE Band 41 / 15MHz

Lowest Channel / QPSK



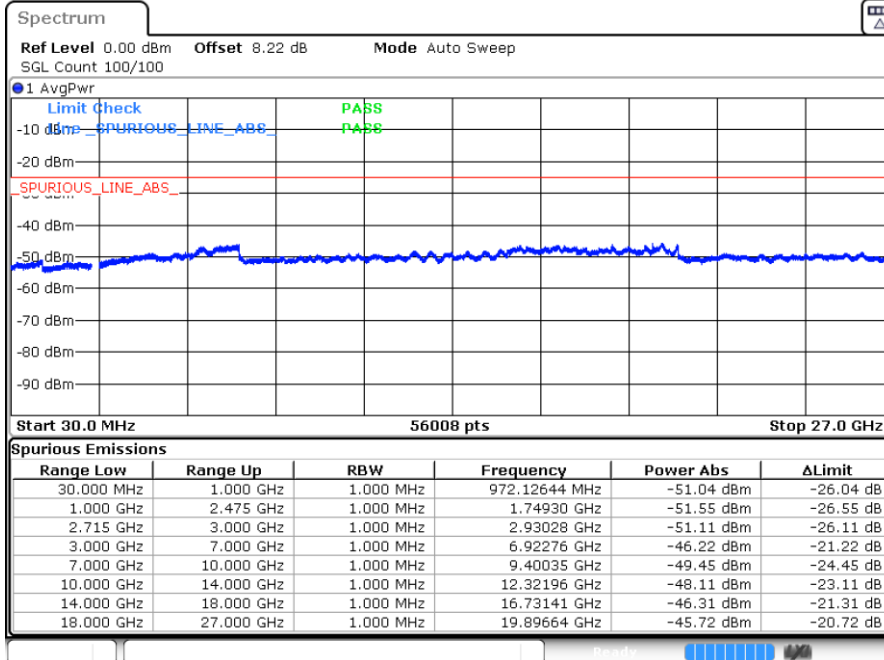
Date: 16 MAR 2022 23:37:13

Middle Channel / QPSK



Date: 16 MAR 2022 23:38:12

Highest Channel / QPSK

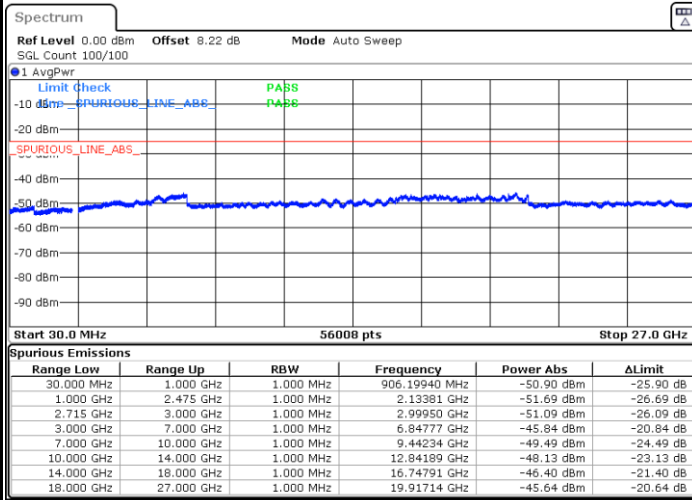


Date: 16 MAR 2022 23:39:14



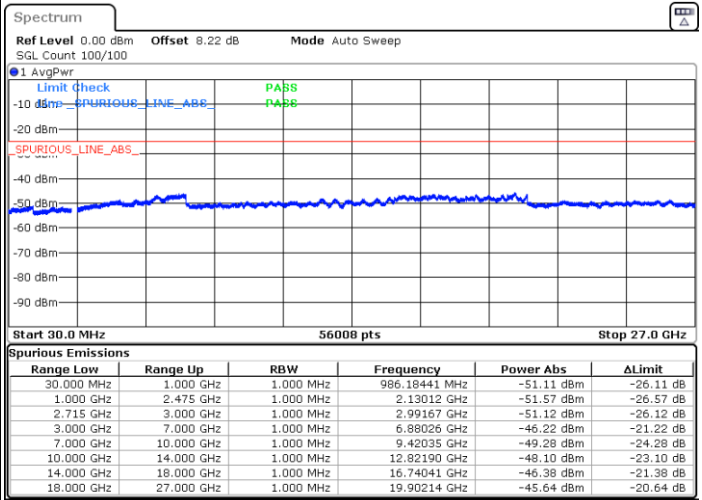
LTE Band 41 / 20MHz

Lowest Channel / QPSK



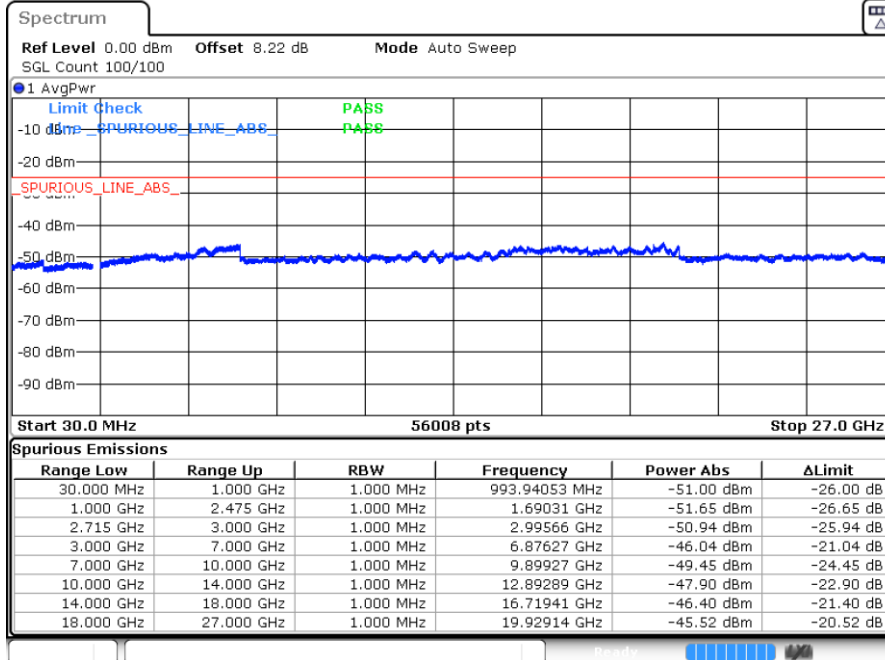
Date: 16 MAR 2022 23:35:07

Middle Channel / QPSK



Date: 16 MAR 2022 23:34:08

Highest Channel / QPSK



Date: 16 MAR 2022 23:36:07

**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	0.0022	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0004	

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℃
		Relative Humidity :	4~42%

LTE Band 2 / 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	3741	-57.43	-13	-44.43	-69.69	2.64	14.90	H
	5613	-55.09	-13	-42.09	-66.95	2.94	14.80	H
	7488	-52.40	-13	-39.40	-62.17	3.39	13.16	H
	3741	-57.17	-13	-44.17	-69.43	2.64	14.90	V
	5613	-55.47	-13	-42.47	-67.33	2.94	14.80	V
	7488	-52.62	-13	-39.62	-62.39	3.39	13.16	V

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

LTE Band 4 / 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	3447	-58.24	-13	-45.24	-68.98	2.604	13.34	H
	5169	-54.62	-13	-41.62	-65.13	3.011	13.52	H
	6888	-54.06	-13	-41.06	-64.26	3.271	13.47	H
	3447	-58.63	-13	-45.63	-69.37	2.604	13.34	V
	5169	-54.36	-13	-41.36	-64.87	3.011	13.52	V
	6888	-54.43	-13	-41.43	-64.63	3.271	13.47	V

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

LTE Band 5 / 10MHz / QPSK(ANT1)								
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	-66.41	-13	-53.41	-73.38	1.58	10.70	H
	2496	-60.37	-13	-47.37	-68.62	2.102	12.50	H
	3328	-60.06	-13	-47.06	-68.95	2.856	13.90	H
	1664	-65.26	-13	-52.26	-72.23	1.58	10.70	V
	2496	-59.34	-13	-46.34	-67.59	2.10	12.50	V
	3328	-60.38	-13	-47.38	-69.27	2.86	13.90	V

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



LTE Band 7 / 20MHz / QPSK(ANT2)								
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	-65.06	-25	-40.06	-75.27	3.03	13.24	H
	7576	-64.05	-25	-39.05	-73.50	3.56	13.01	H
	10100	-59.39	-25	-34.39	-68.91	3.92	13.44	H
	5052	-64.81	-25	-39.81	-75.02	3.03	13.24	V
	7576	-63.84	-25	-38.84	-73.29	3.56	13.01	V
	10100	-61.48	-25	-36.48	-71.00	3.92	13.44	V

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

LTE Band 41 / 20MHz / QPSK(ANT1)								
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	-64.76	-25	-39.76	-74.97	3.03	13.24	H
	7752	-62.77	-25	-37.77	-72.22	3.56	13.01	H
	10342	-61.17	-25	-36.17	-70.69	3.92	13.44	H
	5162	-64.96	-25	-39.96	-75.17	3.03	13.24	V
	7752	-62.55	-25	-37.55	-72.00	3.56	13.01	V
	10342	-62.00	-25	-37.00	-71.52	3.92	13.44	V

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

LTE Band 7C / 20MHz + 20MHz / QPSK(ANT2)								
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	5036	-63.43	-25	-38.43	-73.64	3.03	13.24	H
	7542	-62.20	-25	-37.20	-71.65	3.56	13.01	H
	10062	-57.31	-25	-32.31	-66.83	3.92	13.44	H
	5036	-63.40	-25	-38.40	-73.61	3.03	13.24	V
	7542	-61.99	-25	-36.99	-71.44	3.56	13.01	V
	10062	-61.43	-25	-36.43	-70.95	3.92	13.44	V

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

LTE Band 38C / 20MHz + 20MHz / QPSK(ANT2)								
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	5148	-65.16	-25	-40.16	-75.37	3.03	13.24	H
	7724	-63.49	-25	-38.49	-72.94	3.56	13.01	H
	10300	-62.93	-25	-37.93	-72.45	3.92	13.44	H
	5148	-64.88	-25	-39.88	-75.09	3.03	13.24	V
	7724	-62.84	-25	-37.84	-72.29	3.56	13.01	V
	10300	-63.44	-25	-38.44	-72.96	3.92	13.44	V

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