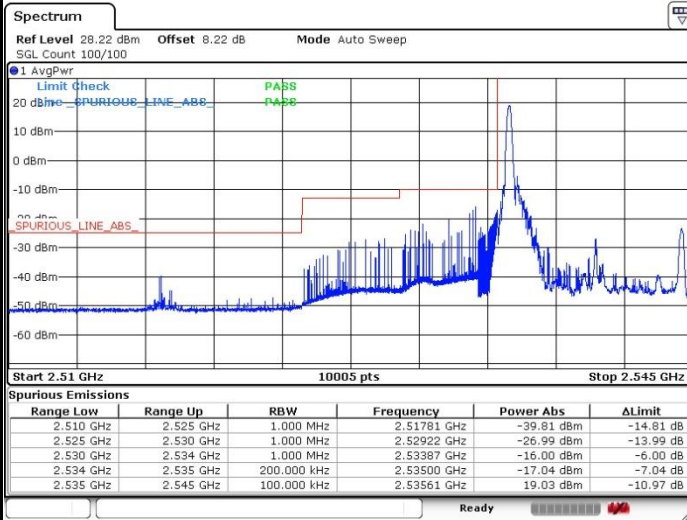




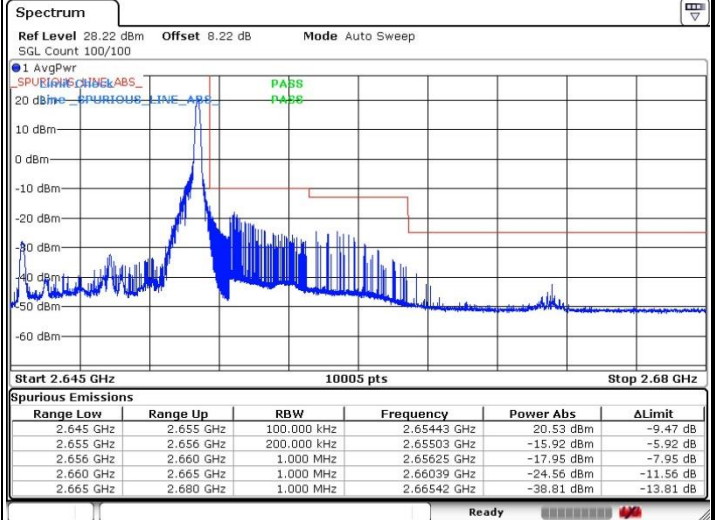
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



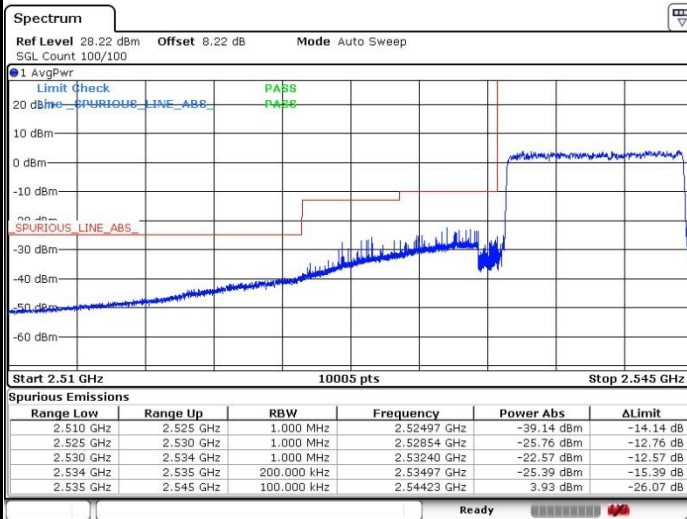
Date: 23 MAR 2020 20:35:14

Highest Band Edge / 1 RB



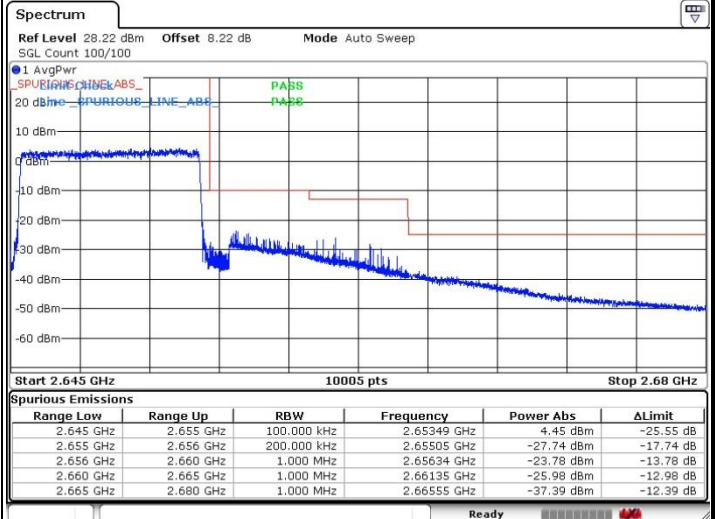
Date: 23 MAR 2020 21:46:01

Lowest Band Edge / Full RB



Date: 23 MAR 2020 20:32:37

Highest Band Edge / Full RB



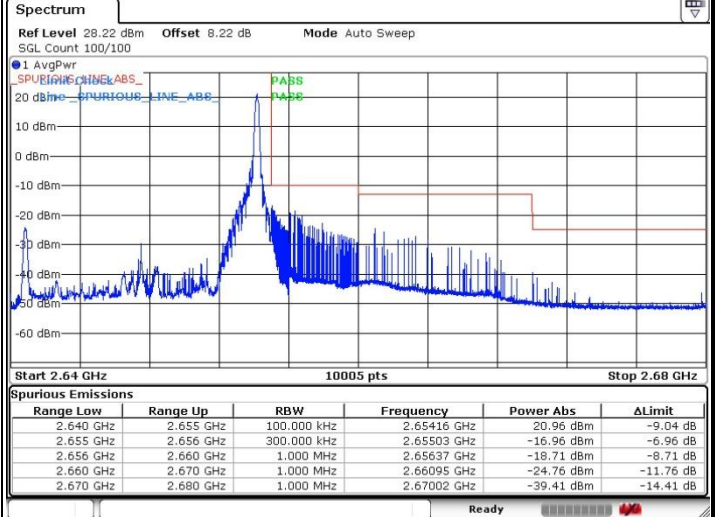
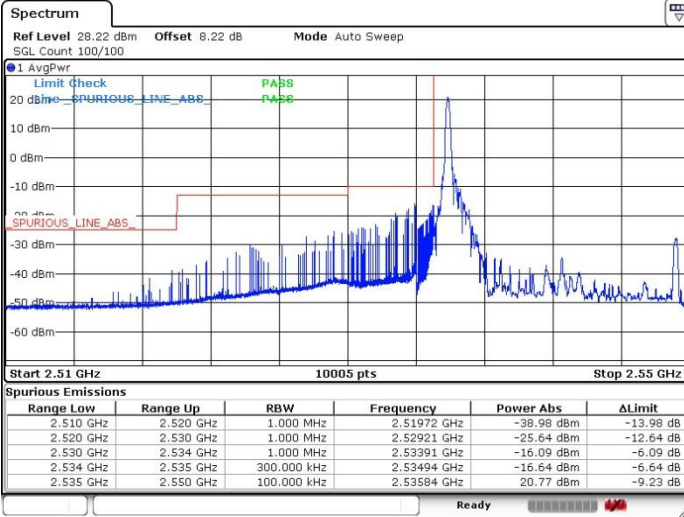
Date: 23 MAR 2020 21:43:47



LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

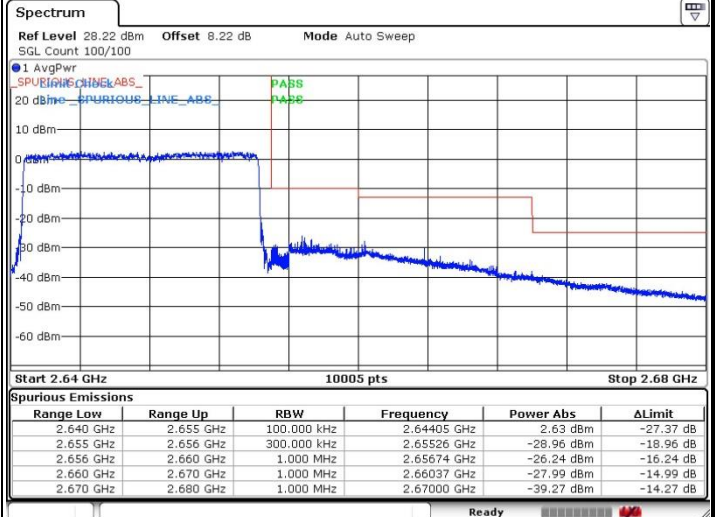
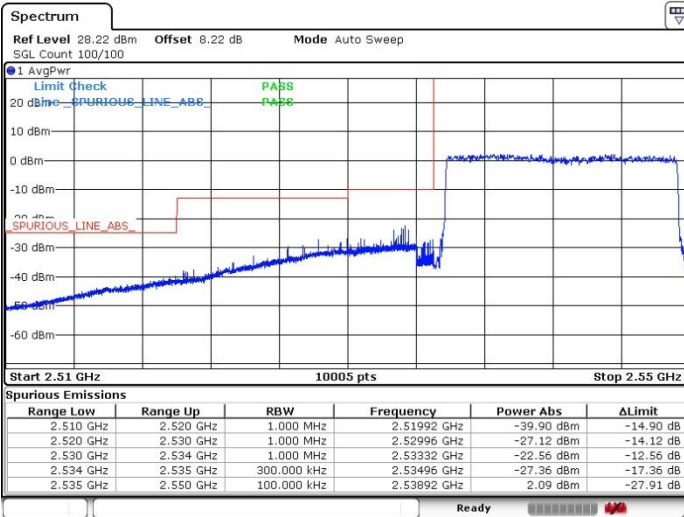


Date: 23 MAR 2020 21:16:05

Date: 23 MAR 2020 21:39:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



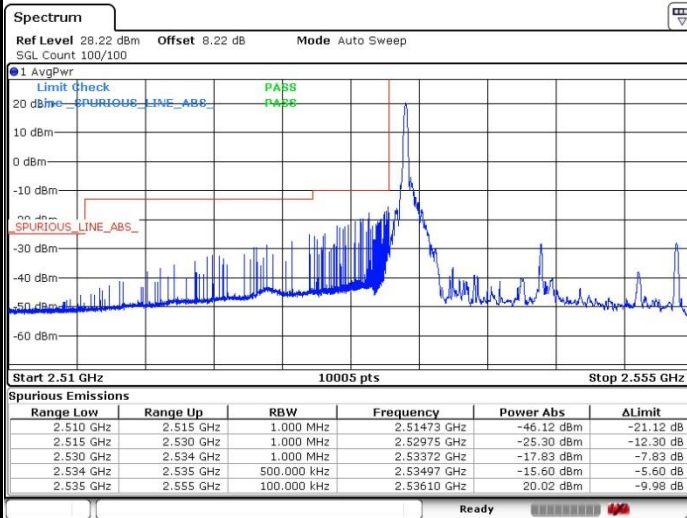
Date: 23 MAR 2020 21:13:54

Date: 23 MAR 2020 21:36:27



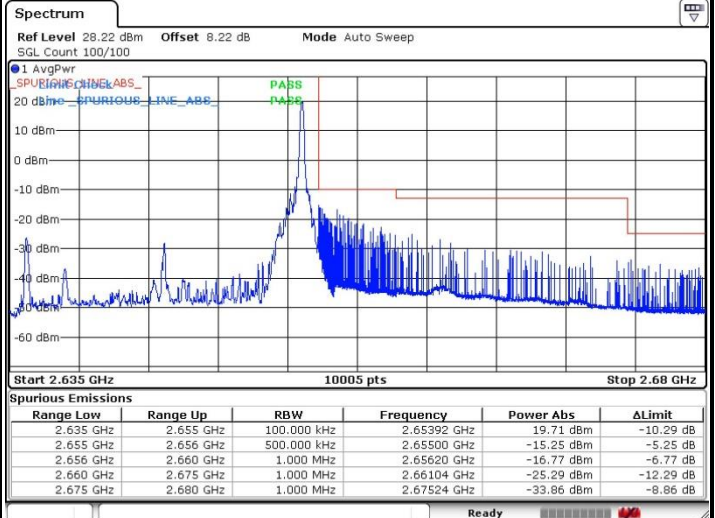
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



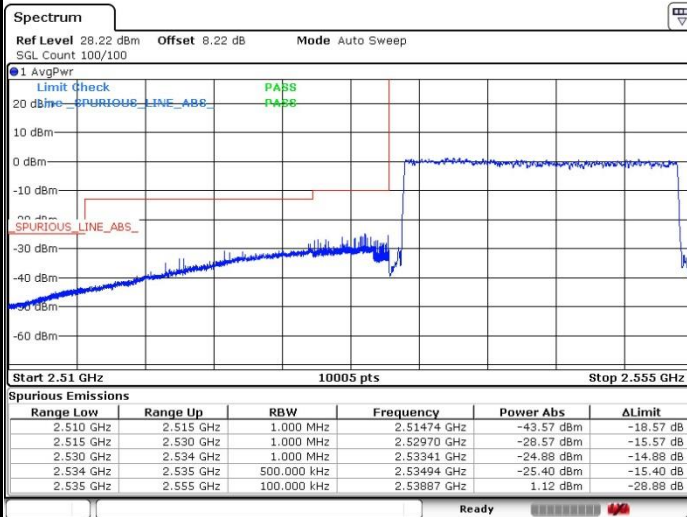
Date: 23 MAR 2020 21:20:41

Highest Band Edge / 1 RB



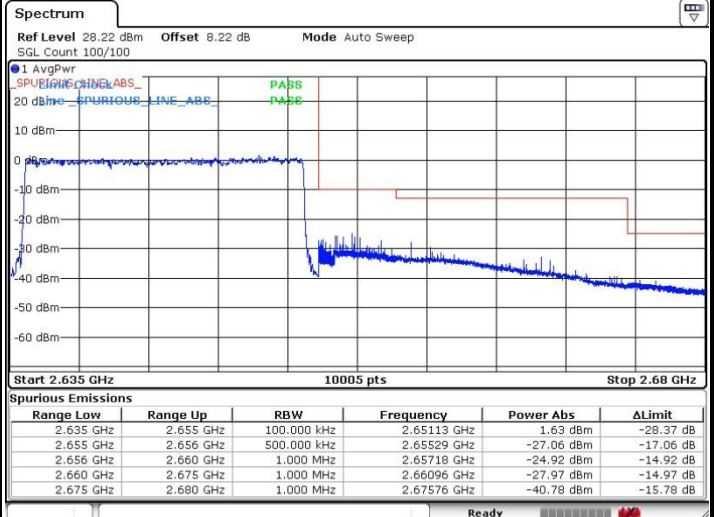
Date: 23 MAR 2020 21:31:06

Lowest Band Edge / Full RB



Date: 23 MAR 2020 21:18:25

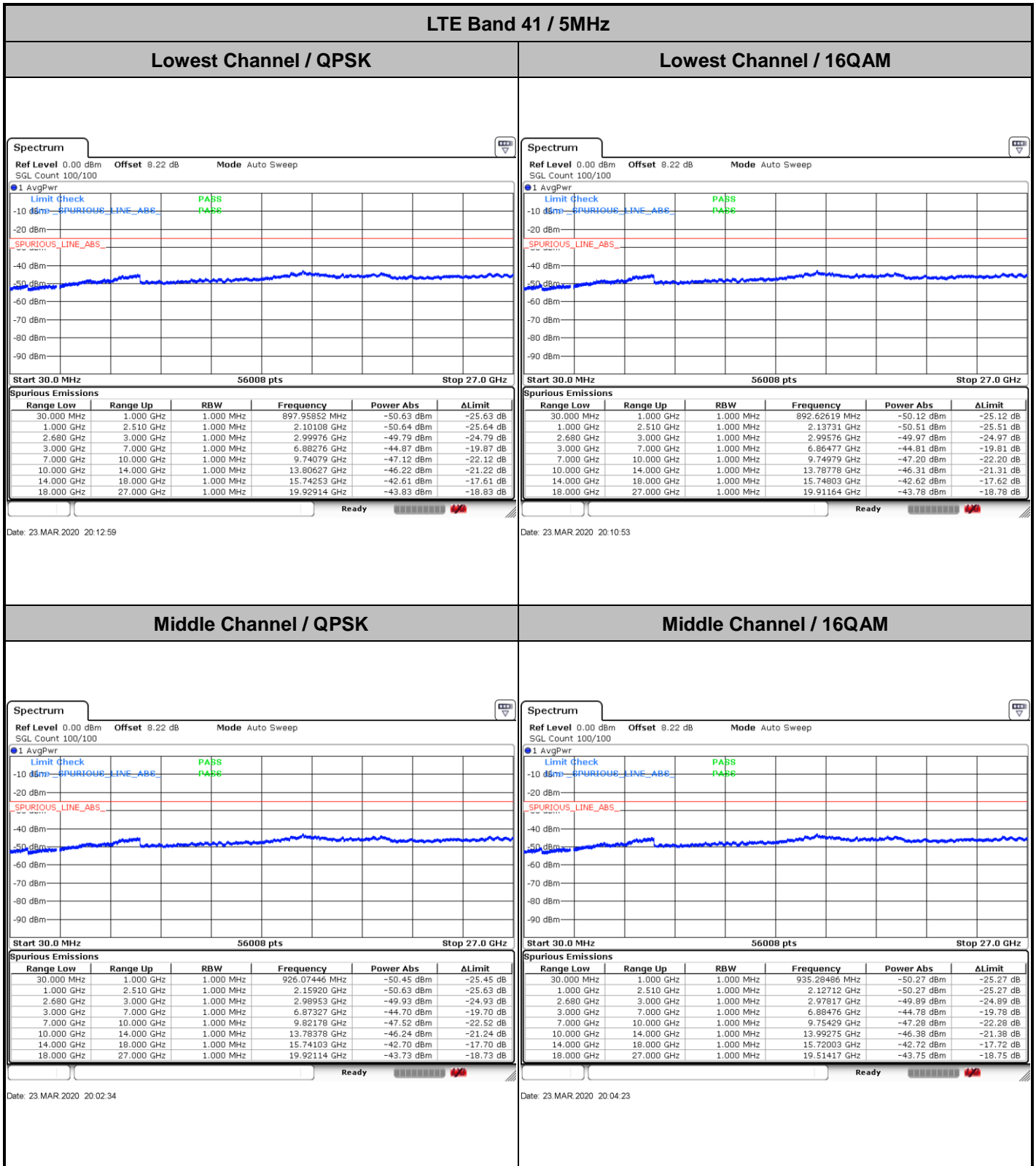
Highest Band Edge / Full RB



Date: 23 MAR 2020 21:33:36



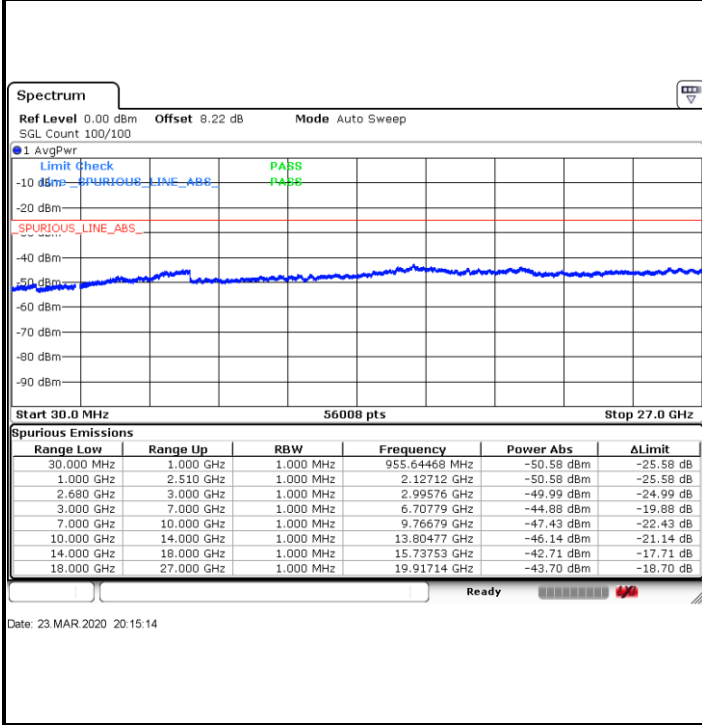
# Conducted Spurious Emission



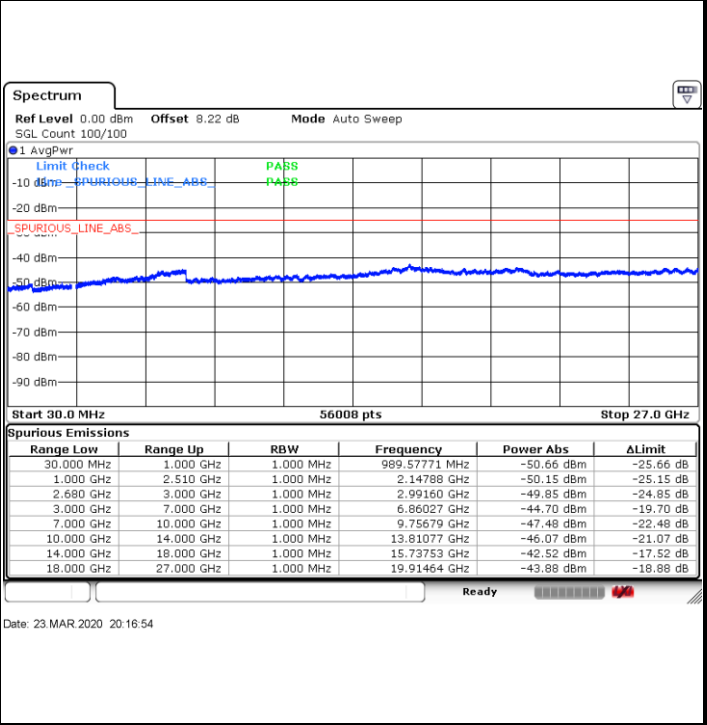


LTE Band 41 / 5MHz

Highest Channel / QPSK

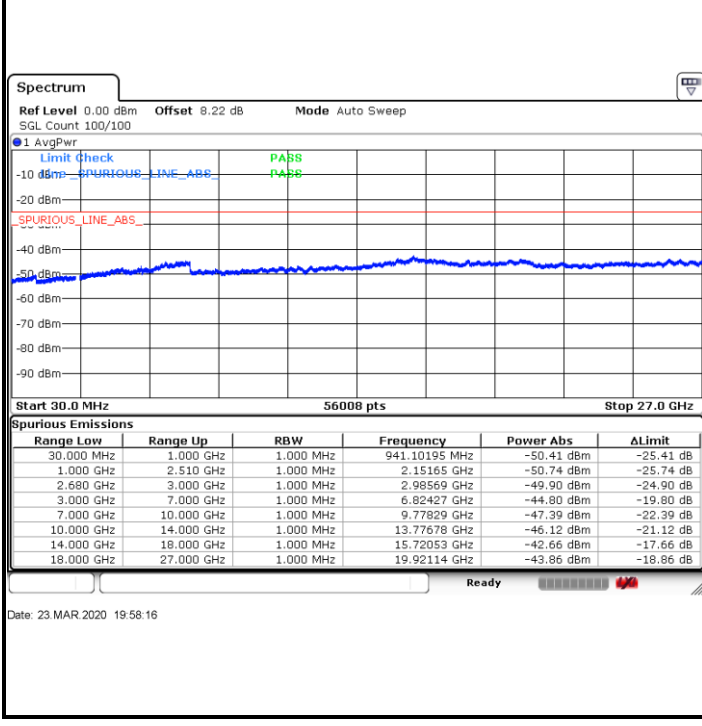


Highest Channel / 16QAM

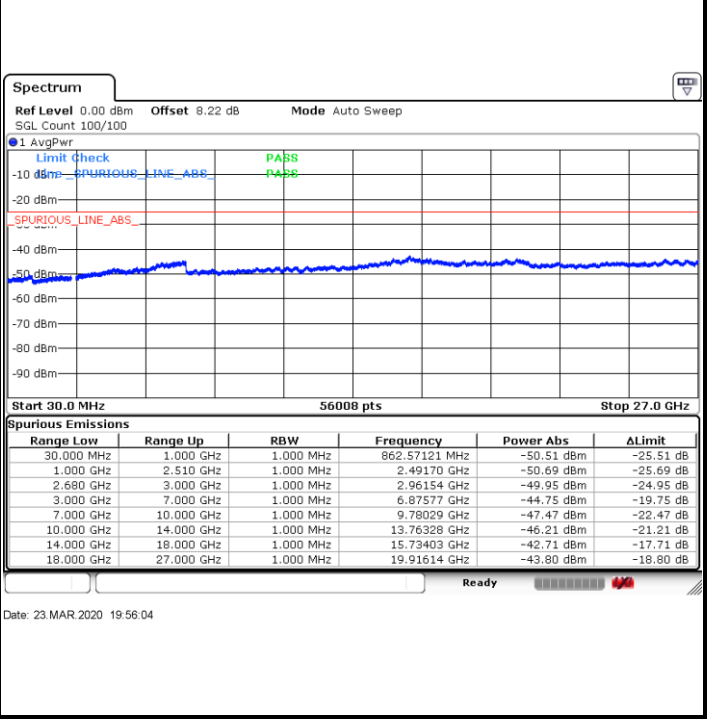


LTE Band 7 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

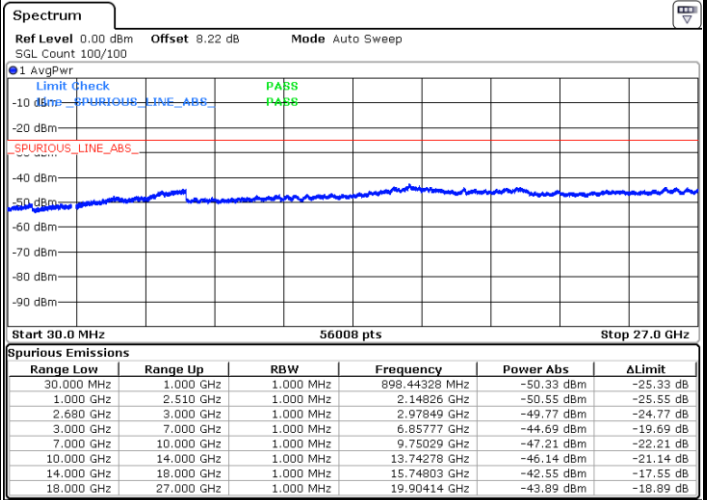
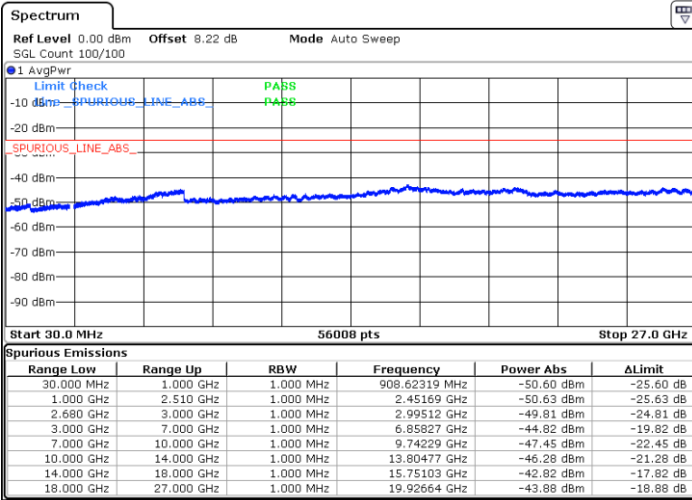




LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

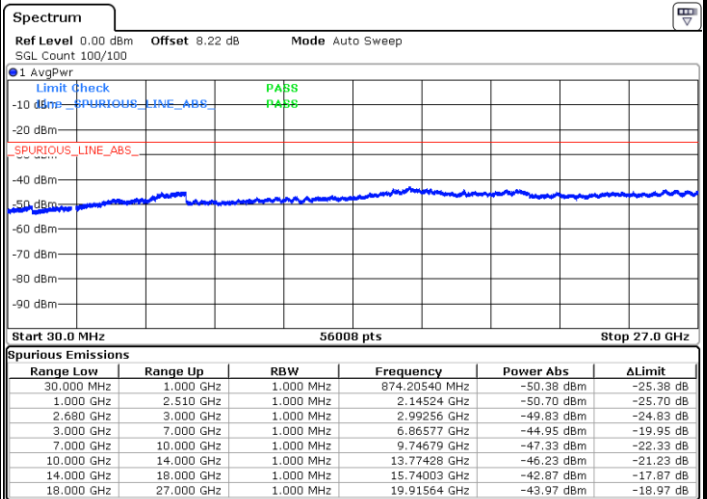
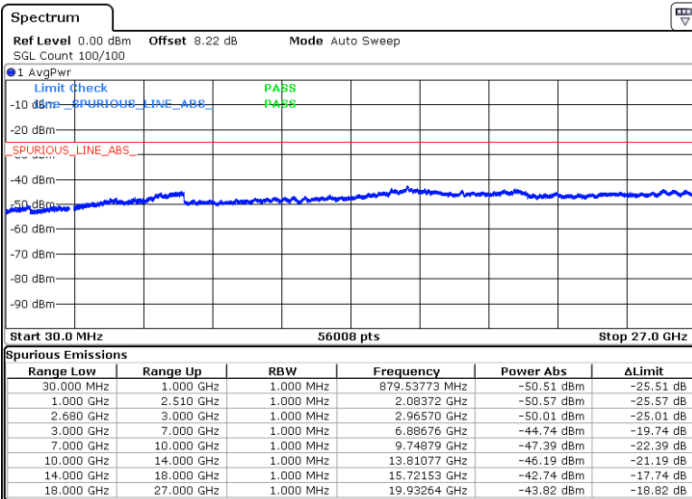


Date: 23 MAR 2020 19:44:09

Date: 23 MAR 2020 19:42:40

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 23 MAR 2020 19:45:42

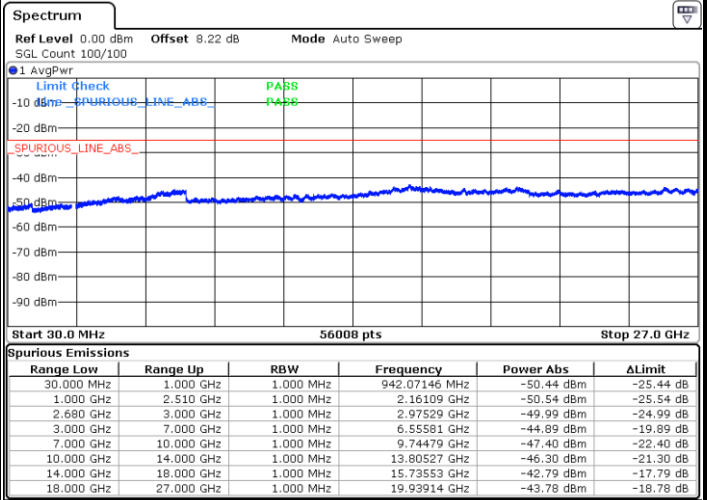
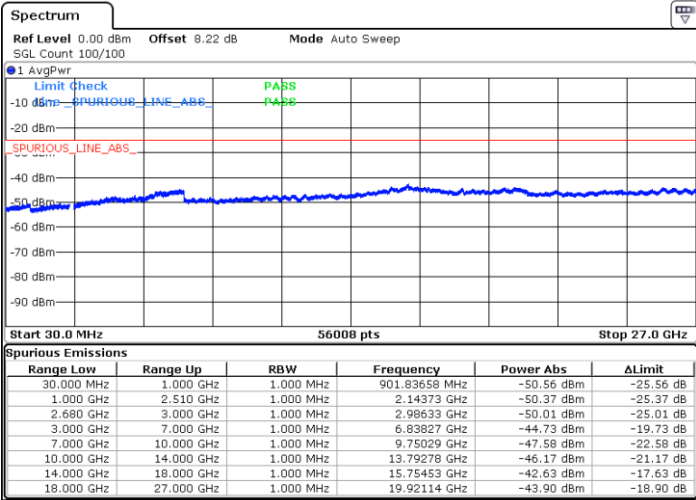
Date: 23 MAR 2020 19:48:02



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

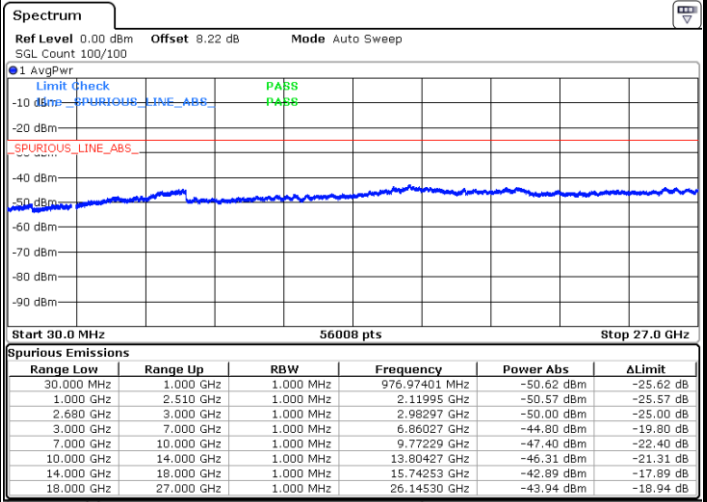
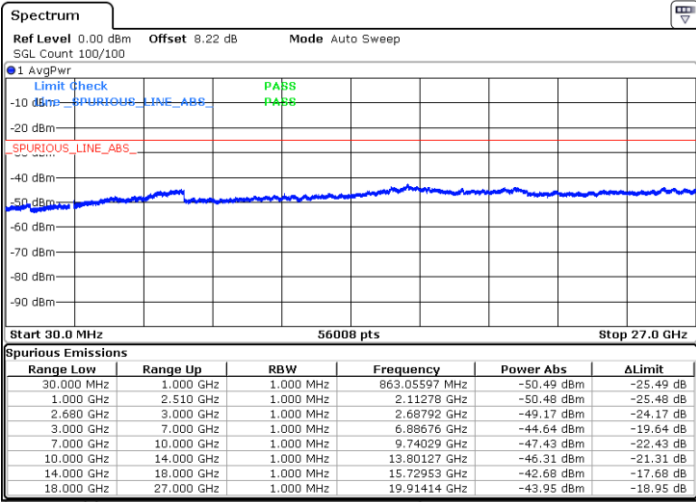


Date: 23 MAR 2020 19:32:18

Date: 23 MAR 2020 19:35:17

Middle Channel / QPSK

Middle Channel / 16QAM

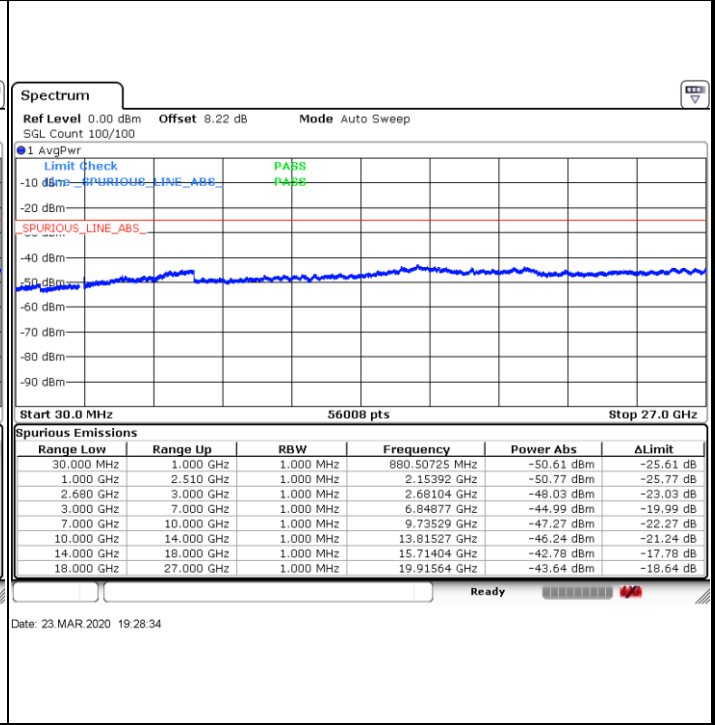
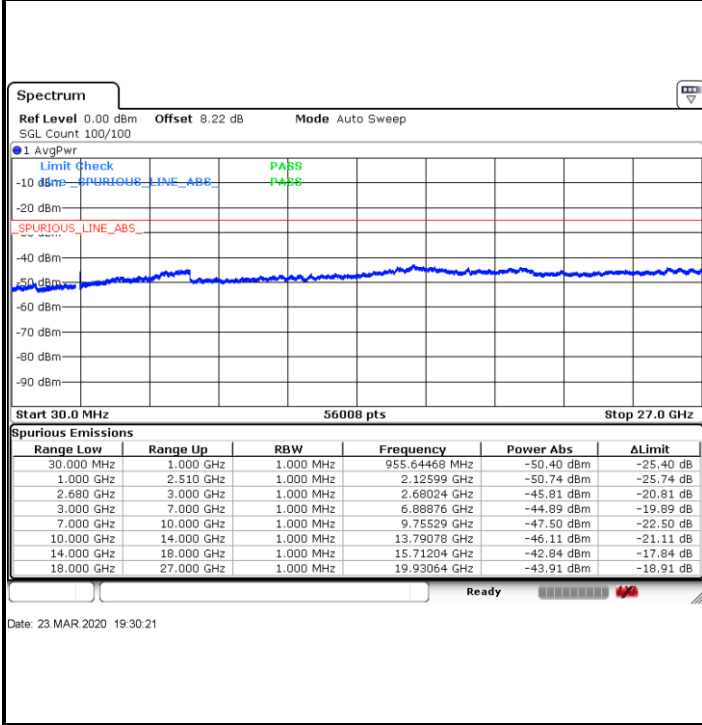


Date: 23 MAR 2020 19:21:23

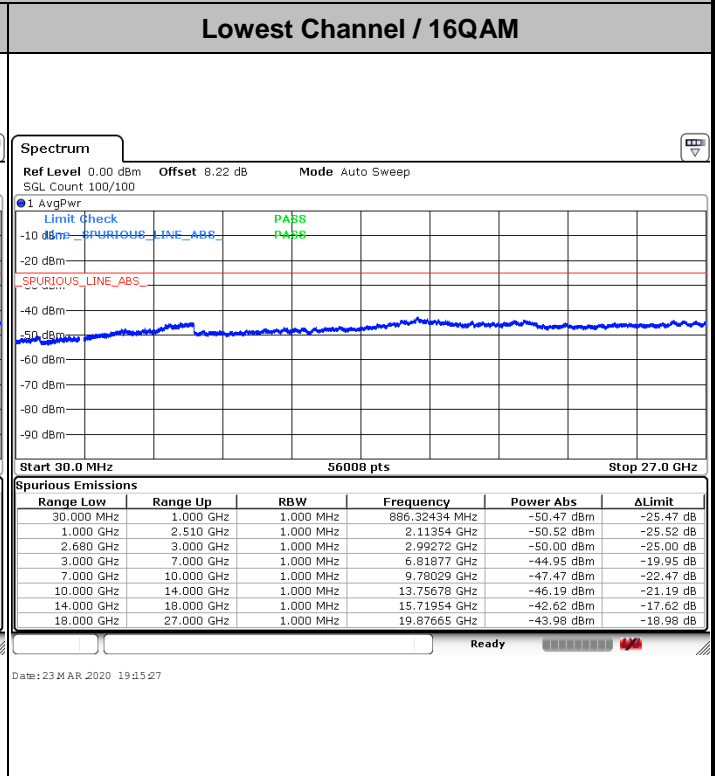
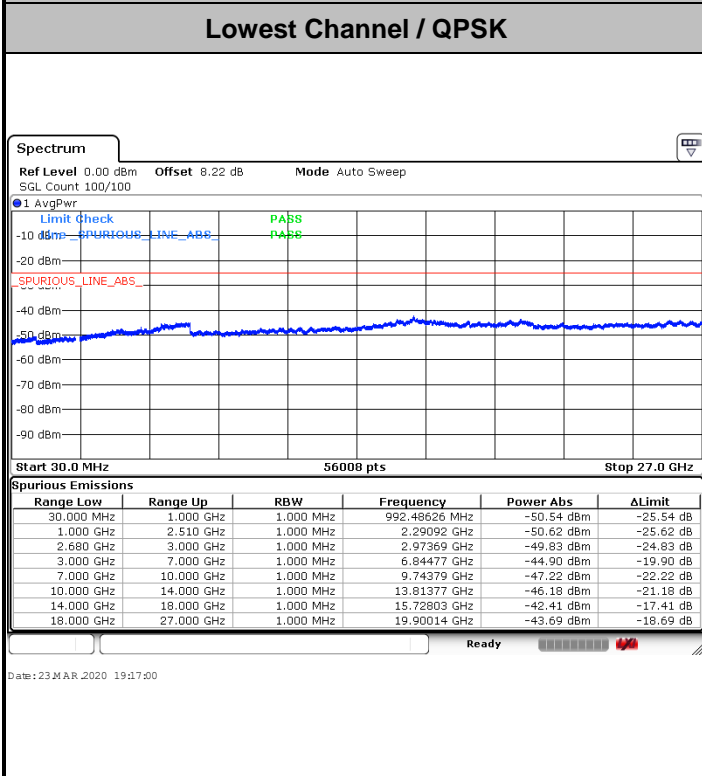
Date: 23 MAR 2020 19:23:08



<b>Highest Channel / QPSK</b>	<b>Highest Channel / 16QAM</b>
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**LTE Band 41 / 20MHz**

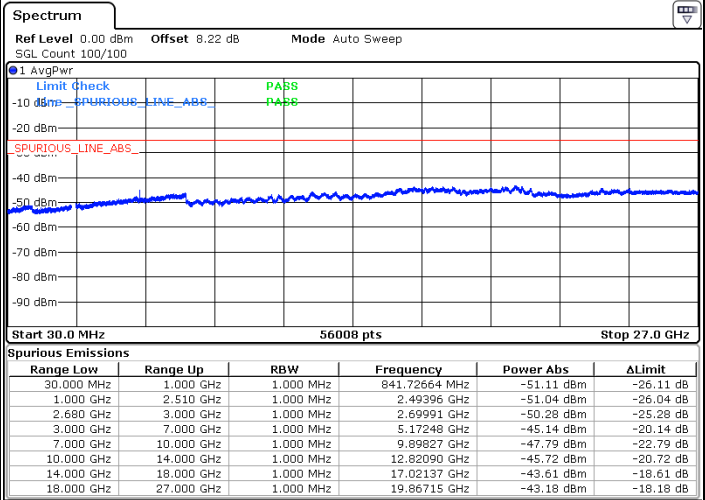
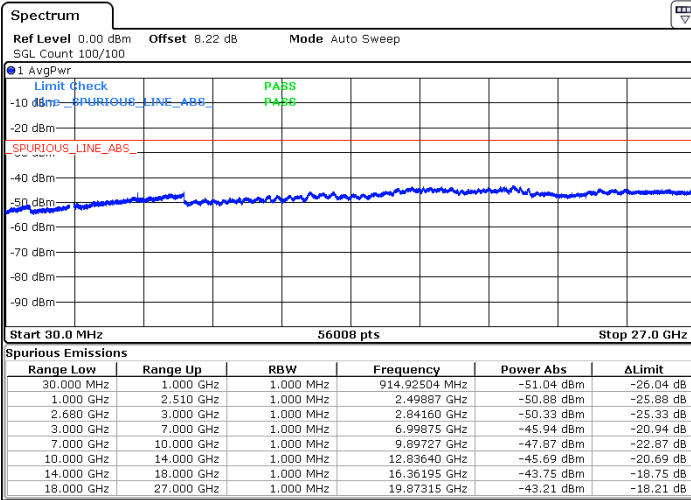




LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

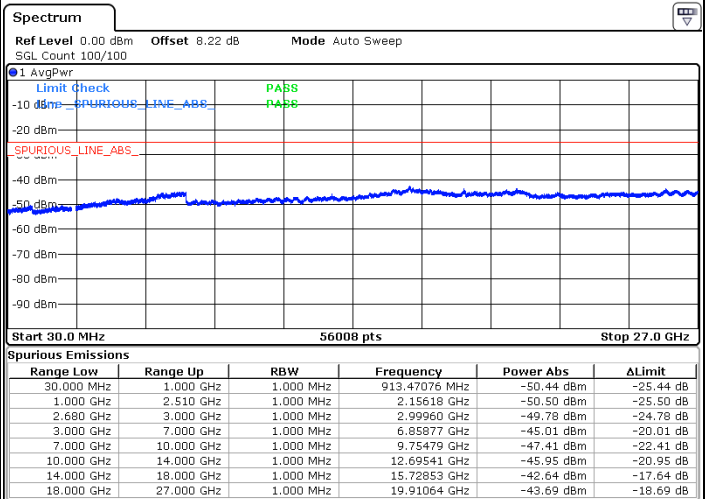
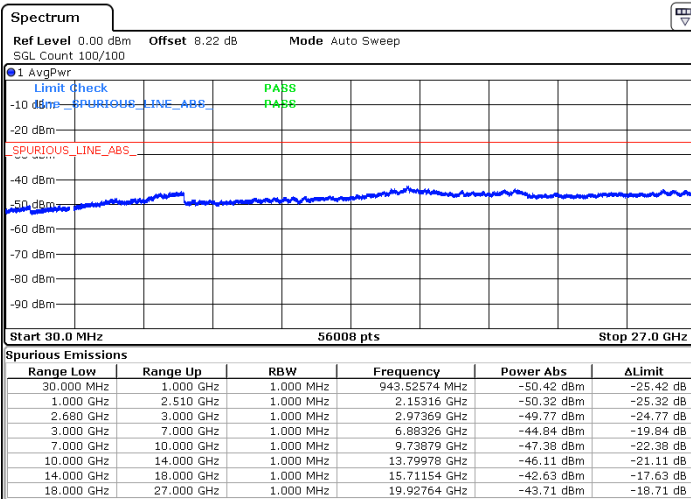


Date: 22 MAR 2020 09:08:46

Date: 22 MAR 2020 09:10:44

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 23 MAR 2020 19:05:36

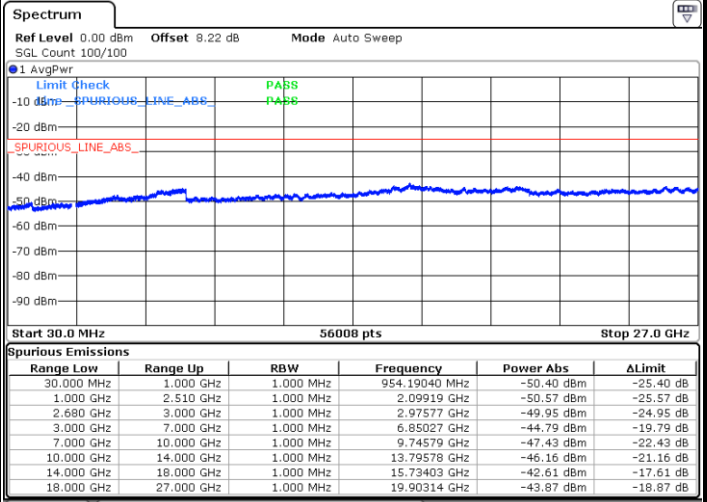
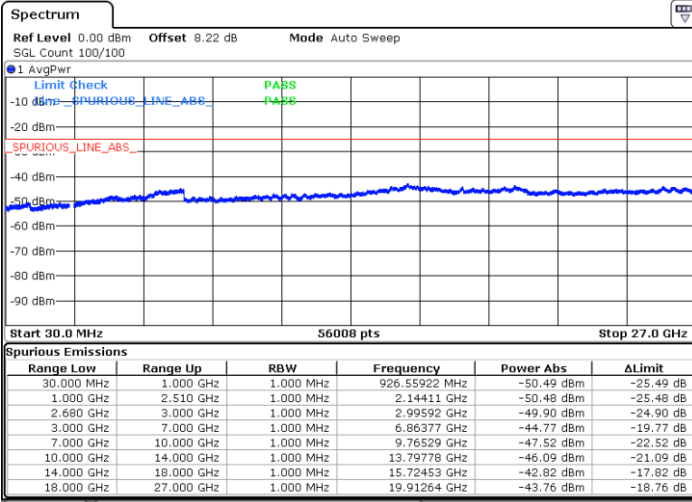
Date: 23 MAR 2020 19:10:07



LTE Band 41 / 5MHz

Lowest Channel / 64QAM

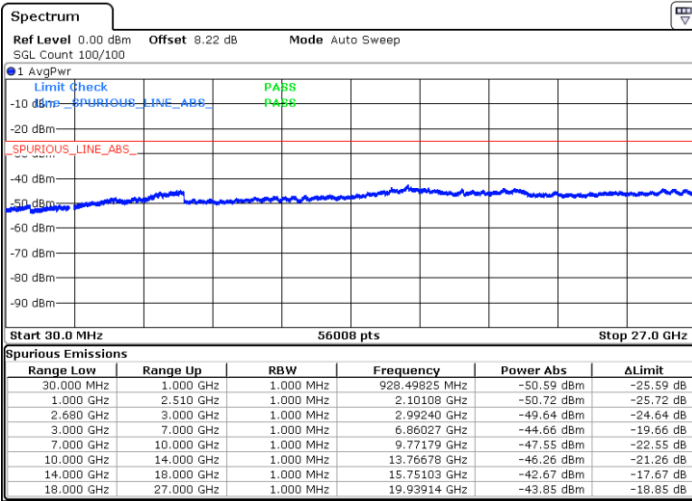
Middle Channel / 64QAM



Date: 23 MAR 2020 20:09:07

Date: 23 MAR 2020 20:05:58

Highest Channel / 64QAM



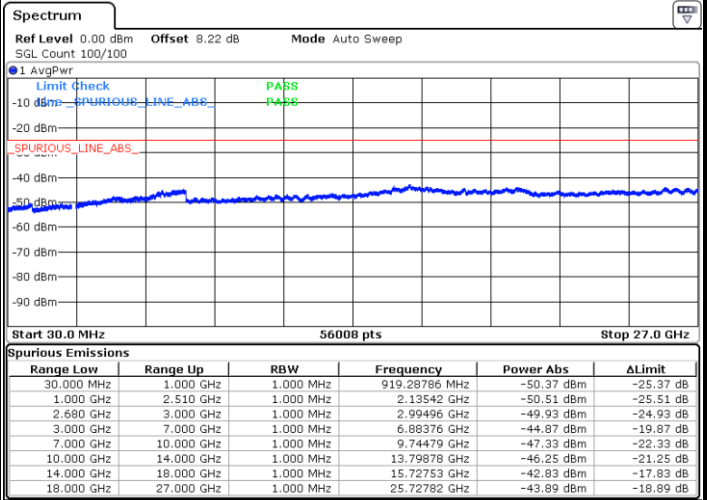
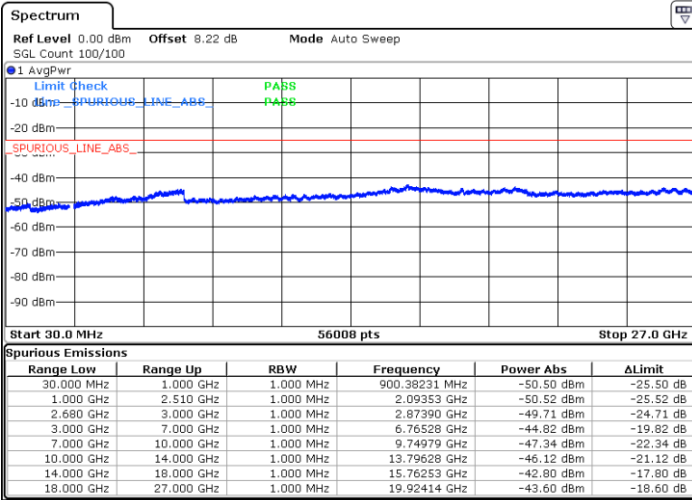
Date: 23 MAR 2020 20:18:33



LTE Band 41 / 10MHz

Lowest Channel / 64QAM

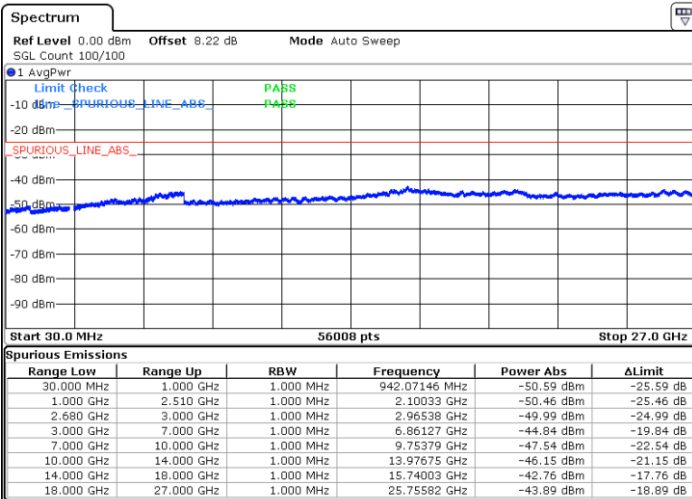
Middle Channel / 64QAM



Date: 23 MAR 2020 19:54:19

Date: 23 MAR 2020 19:40:24

Highest Channel / 64QAM



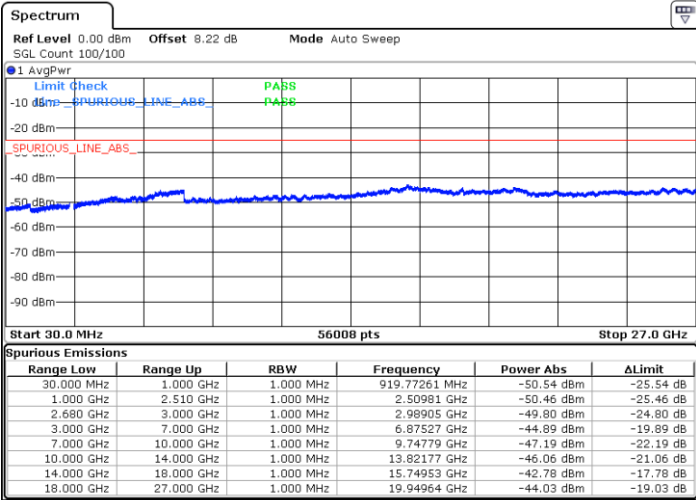
Date: 23 MAR 2020 19:49:41



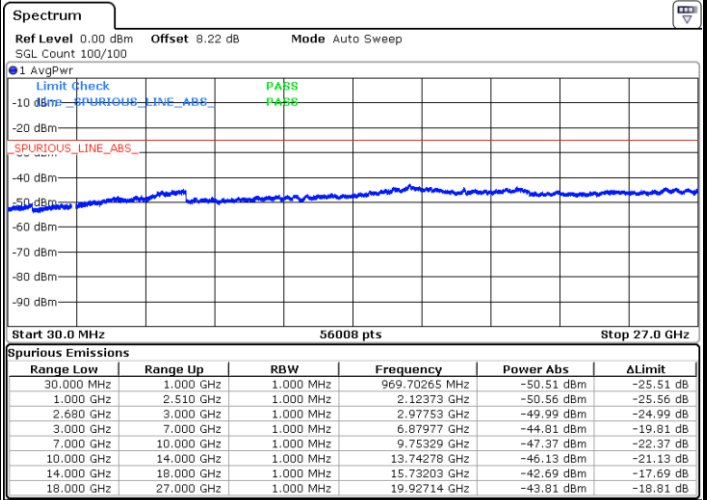
LTE Band 41 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

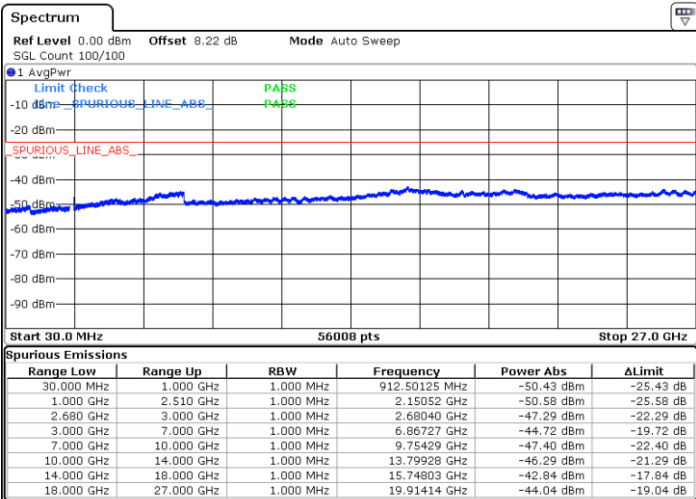


Date: 23 MAR 2020 19:37:41



Date: 23 MAR 2020 19:24:49

Highest Channel / 64QAM



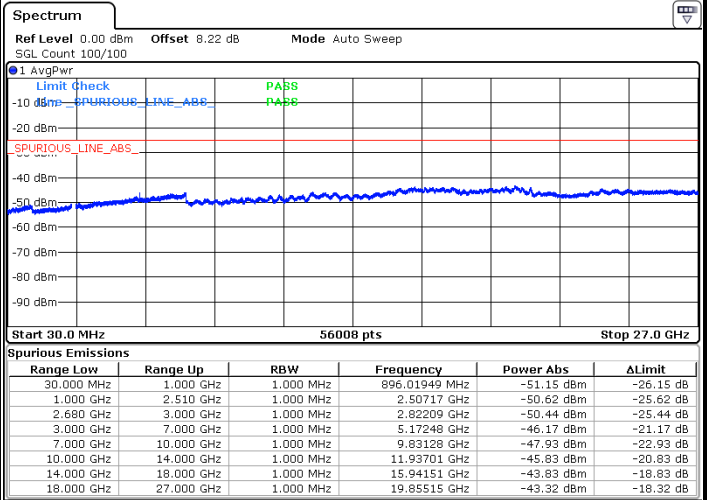
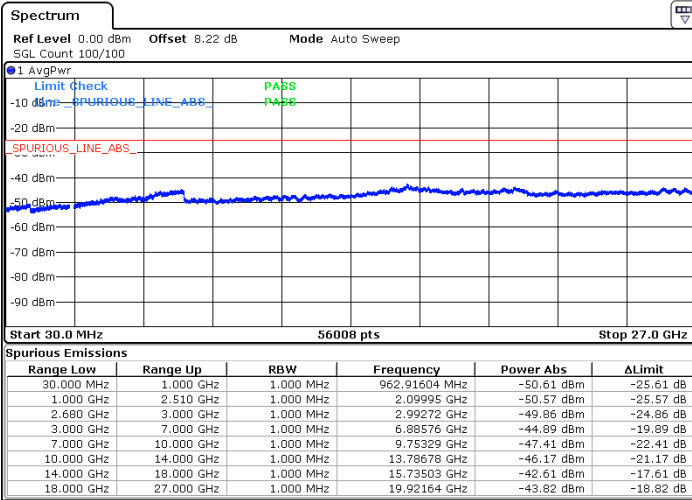
Date: 23 MAR 2020 19:27:00



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

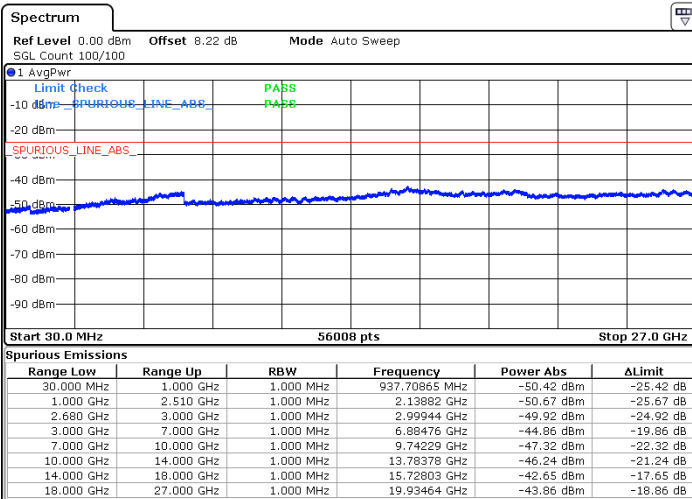
Middle Channel / 64QAM



Date: 23 MAR 2020 19:13:42

Date: 22 MAR 2020 09:12:24

Highest Channel / 64QAM



Date: 23 MAR 2020 19:11:42



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	0.0044	PASS
40	Normal Voltage	0.0034	
30	Normal Voltage	0.0051	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0042	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage =3.8 V. ; 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 26 / 15MHz / 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	1660	-67.37	-13	-54.37	-74.34	1.58	10.70	H
	2490	-62.31	-13	-49.31	-70.56	2.102	12.50	H
	3318	-64.43	-13	-51.43	-73.32	2.856	13.90	H
	1660	-65.02	-13	-52.02	-71.99	1.58	10.70	V
	2490	-59.09	-13	-46.09	-67.34	2.10	12.50	V
	3318	-64.22	-13	-51.22	-73.11	2.86	13.90	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	5168	-61.78	-25	-36.78	-71.99	3.03	13.24	H
	7752	-60.71	-25	-35.71	-70.16	3.56	13.01	H
	10340	-57.68	-25	-32.68	-67.20	3.92	13.44	H
	5168	-64.46	-25	-39.46	-74.67	3.03	13.24	V
	7752	-59.96	-25	-34.96	-69.41	3.56	13.01	V
	10340	-57.92	-25	-32.92	-67.44	3.92	13.44	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 FG9D1003-01B which is issued separately.