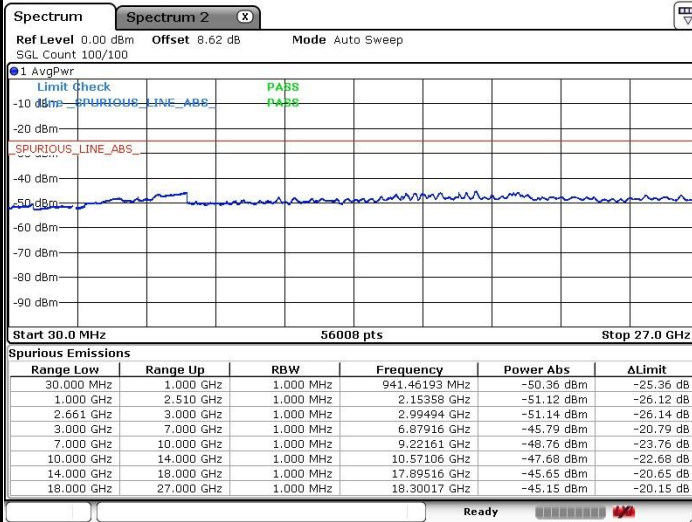




Conducted Spurious Emission

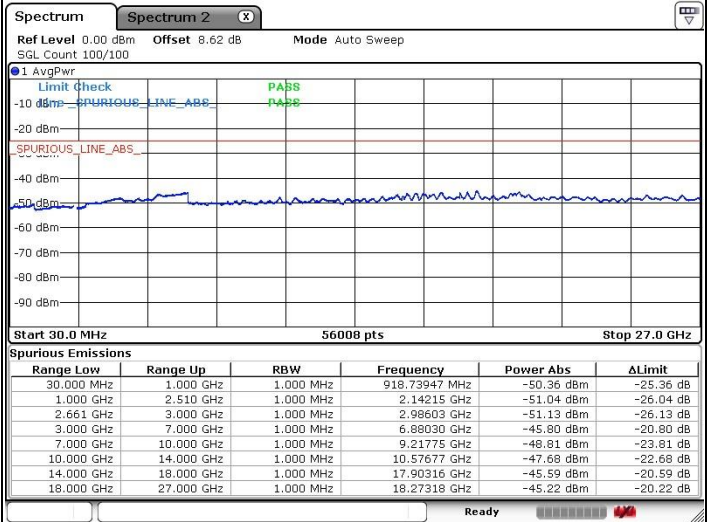
LTE Band 41 / 5MHz

Lowest Channel / QPSK



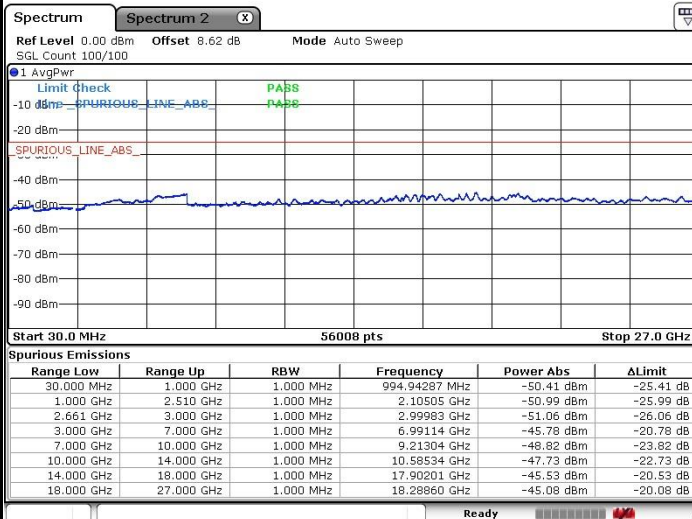
Date: 9 JUN 2019 15:09:41

Lowest Channel / 16QAM



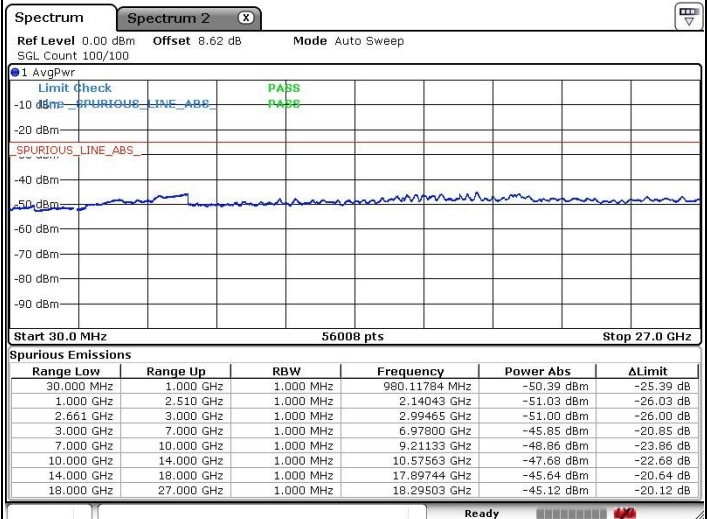
Date: 9 JUN 2019 15:11:56

Middle Channel / QPSK



Date: 9 JUN 2019 15:07:15

Middle Channel / 16QAM

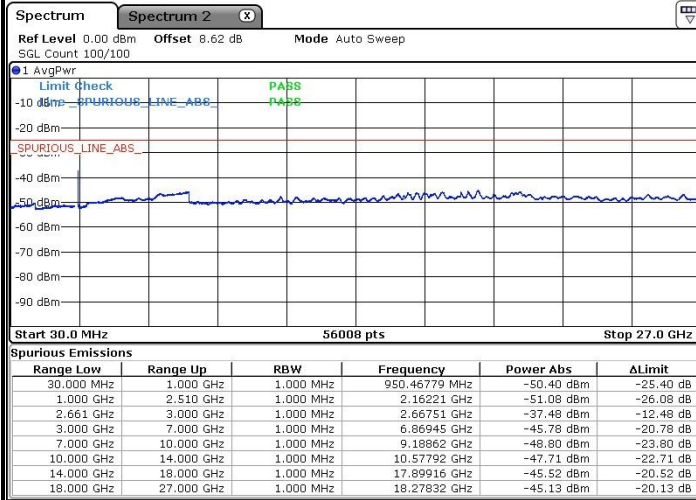


Date: 9 JUN 2019 15:05:10



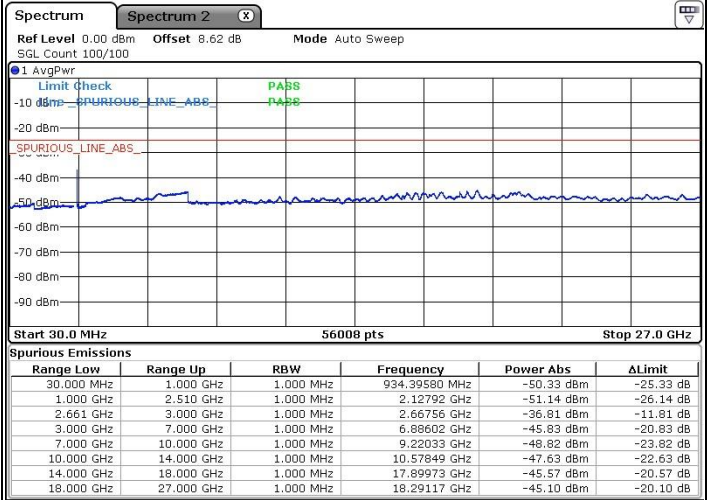
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 9 JUN 2019 14:48:17

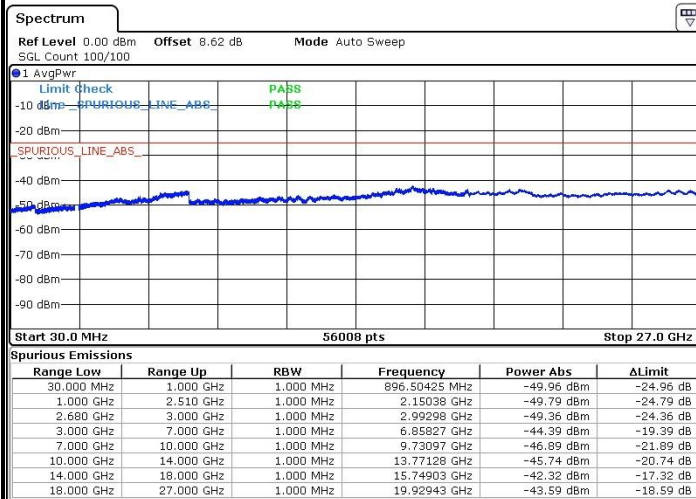
Highest Channel / 16QAM



Date: 9 JUN 2019 14:54:01

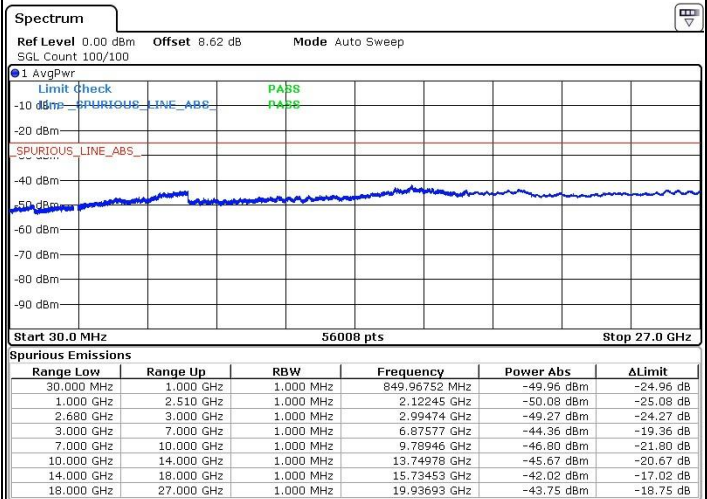
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 4 JUN 2019 20:02:11

Lowest Channel / 16QAM

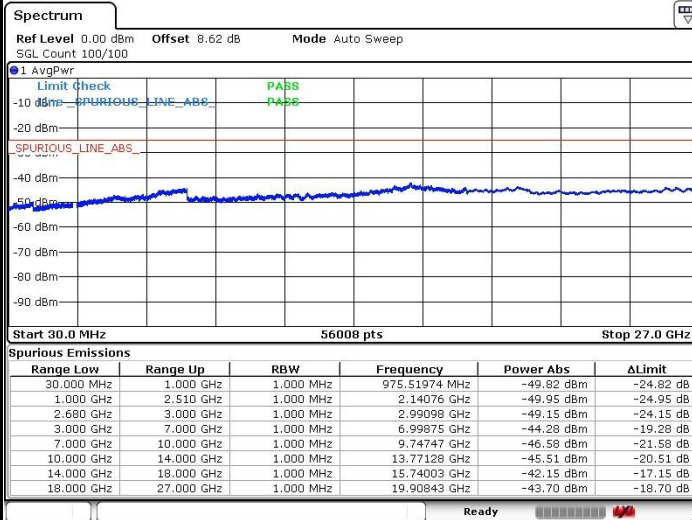


Date: 4 JUN 2019 20:02:59



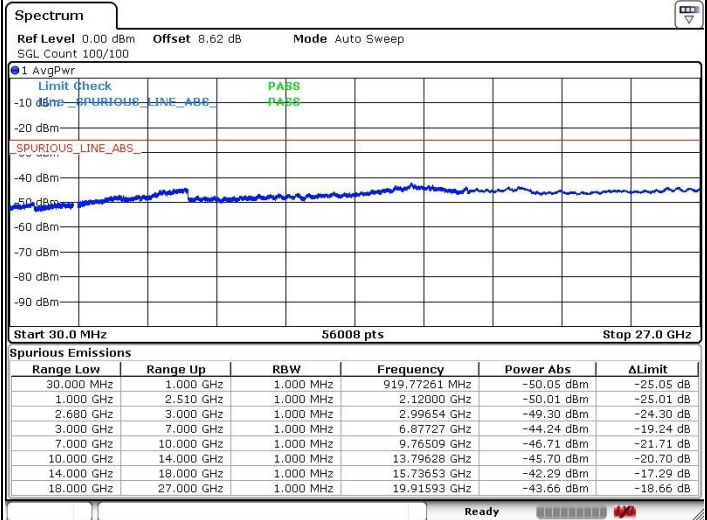
LTE Band 41 / 10MHz

Middle Channel / QPSK



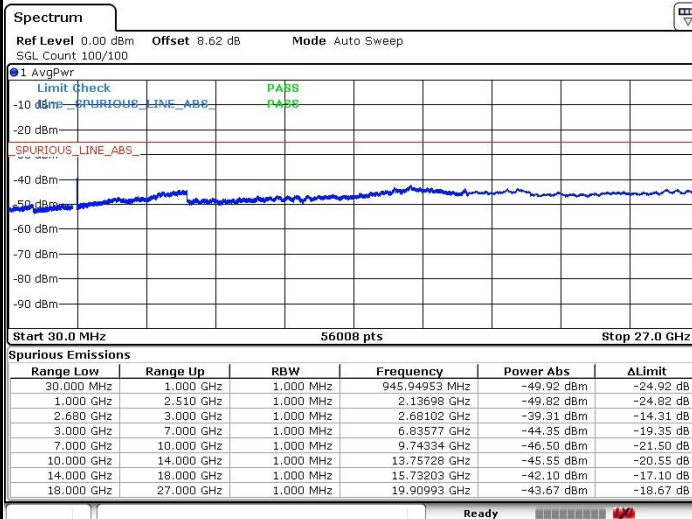
Date: 4 JUN 2019 20:01:22

Middle Channel / 16QAM



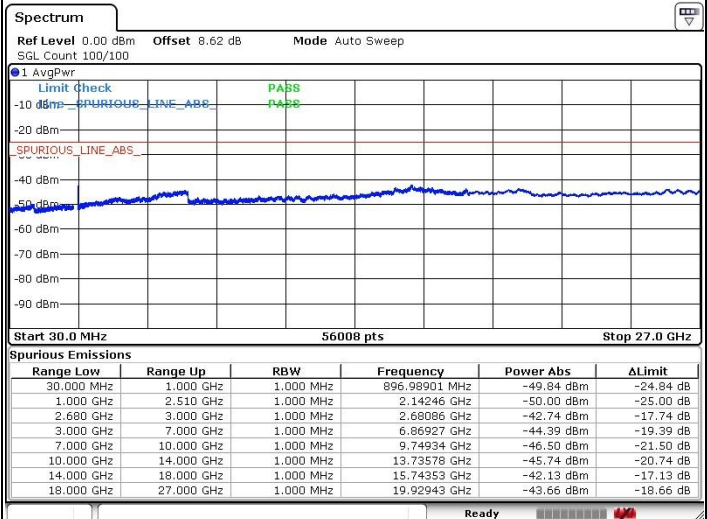
Date: 4 JUN 2019 20:00:27

Highest Channel / QPSK



Date: 4 JUN 2019 20:06:05

Highest Channel / 16QAM

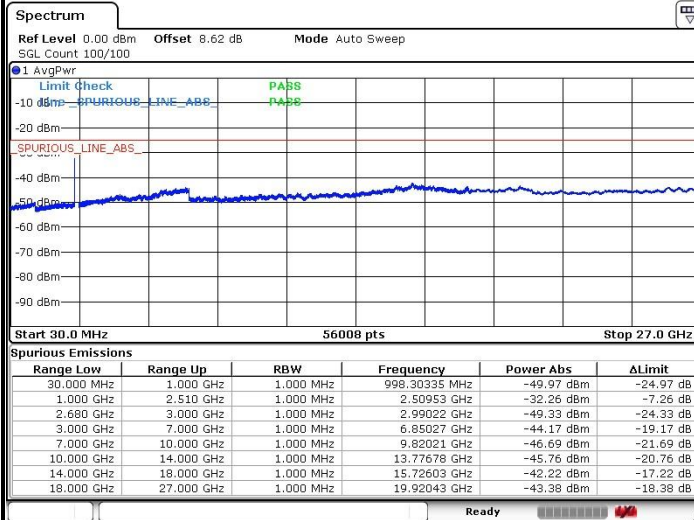


Date: 4 JUN 2019 20:05:17



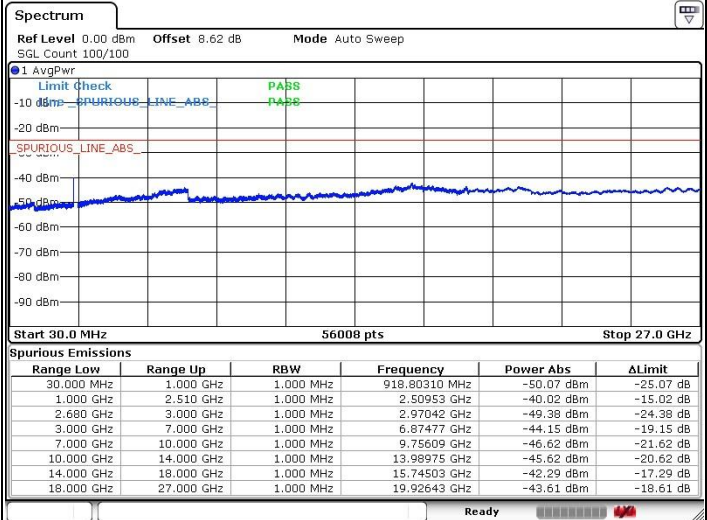
LTE Band 41 / 15MHz

Lowest Channel / QPSK



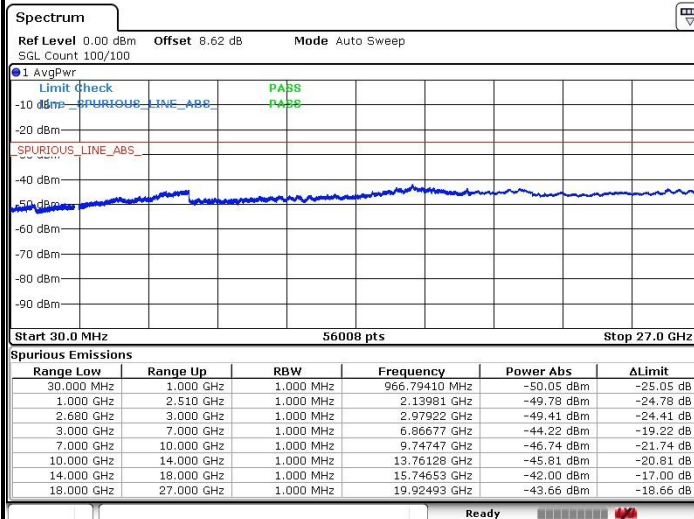
Date: 4 JUN 2019 20:11:13

Lowest Channel / 16QAM



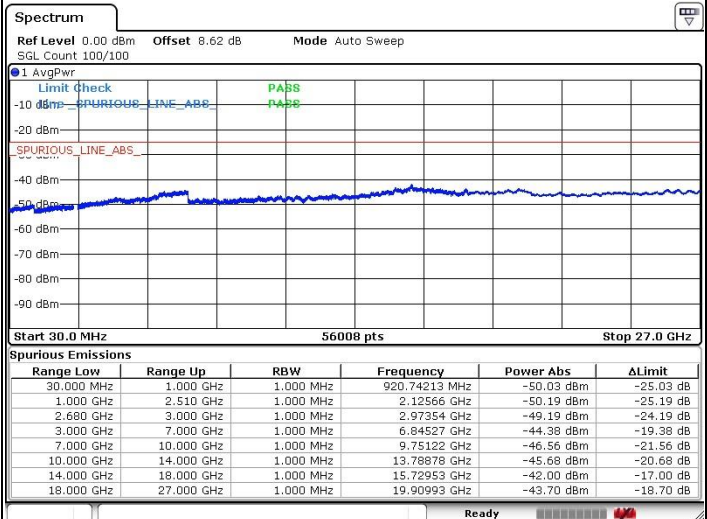
Date: 4 JUN 2019 20:10:23

Middle Channel / QPSK



Date: 4 JUN 2019 20:07:13

Middle Channel / 16QAM

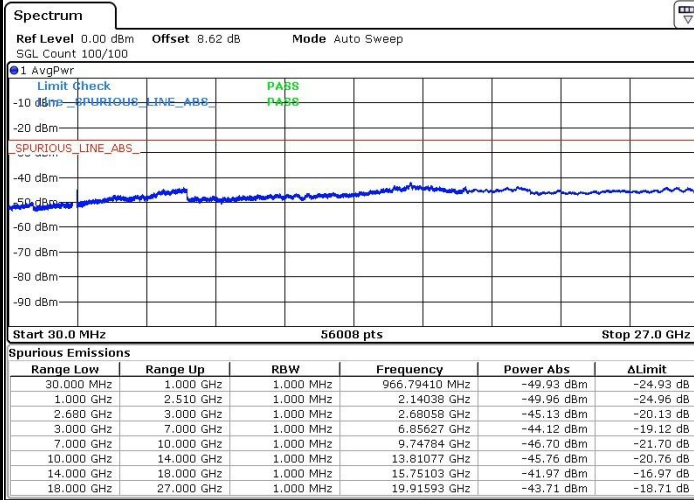


Date: 4 JUN 2019 20:08:01



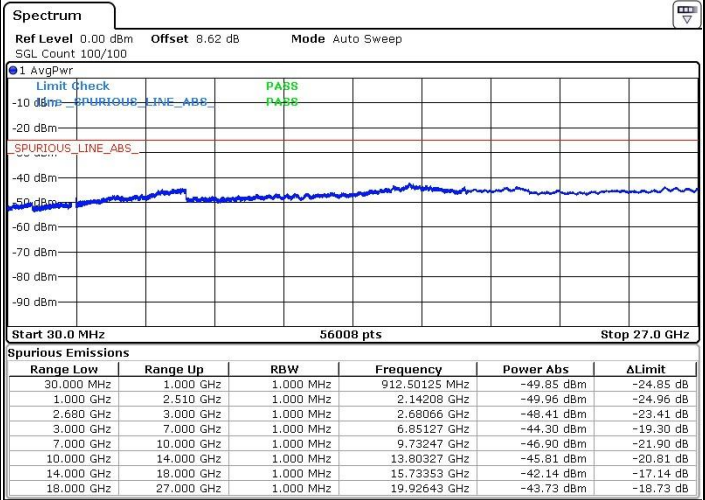
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 4 JUN 2019 20:12:02

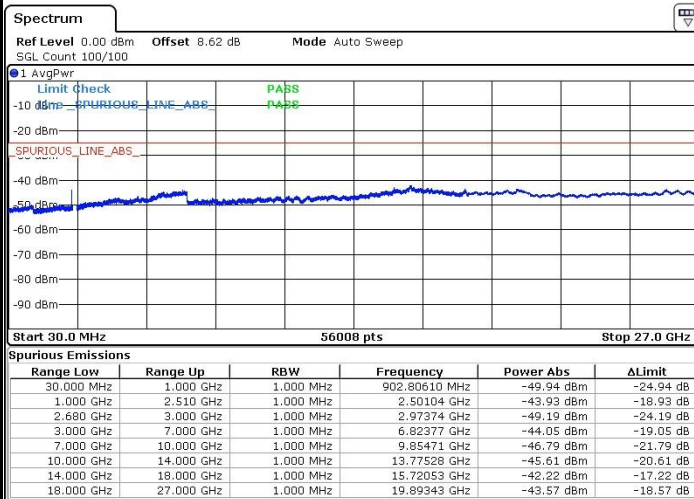
Highest Channel / 16QAM



Date: 4 JUN 2019 20:12:50

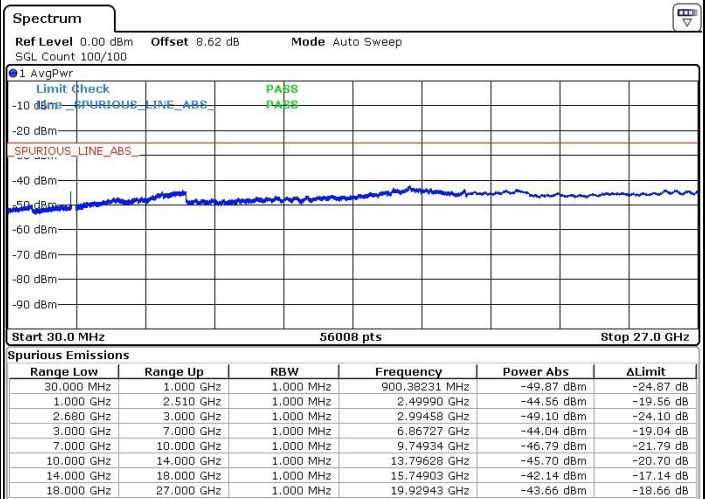
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 4 JUN 2019 20:17:14

Lowest Channel / 16QAM

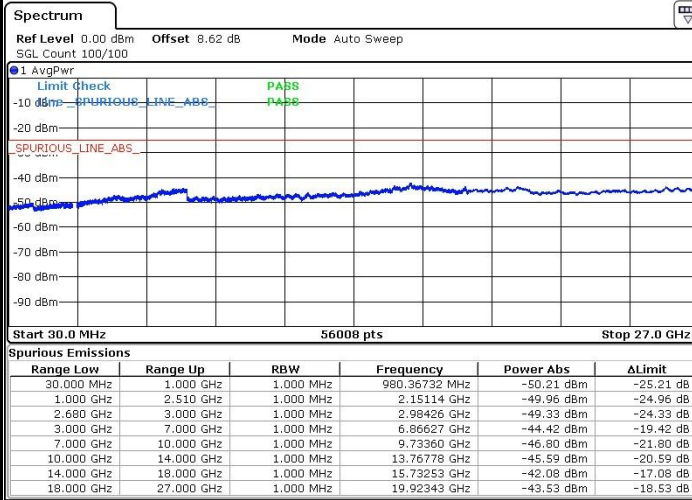


Date: 4 JUN 2019 20:18:03



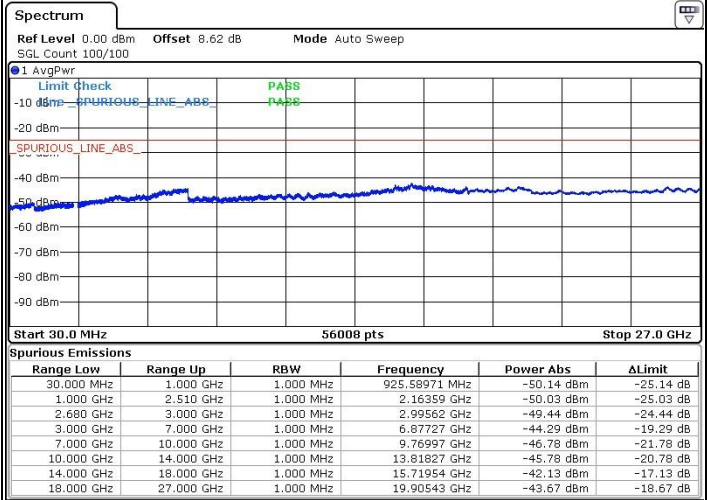
LTE Band 41 / 20MHz

Middle Channel / QPSK



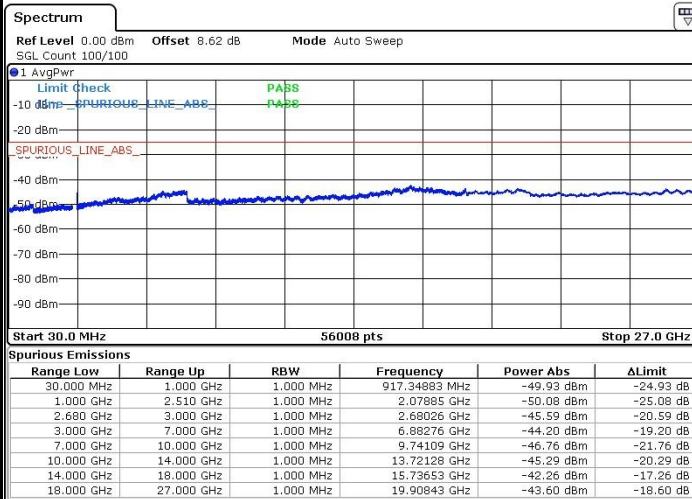
Date: 4 JUN 2019 20:16:21

Middle Channel / 16QAM



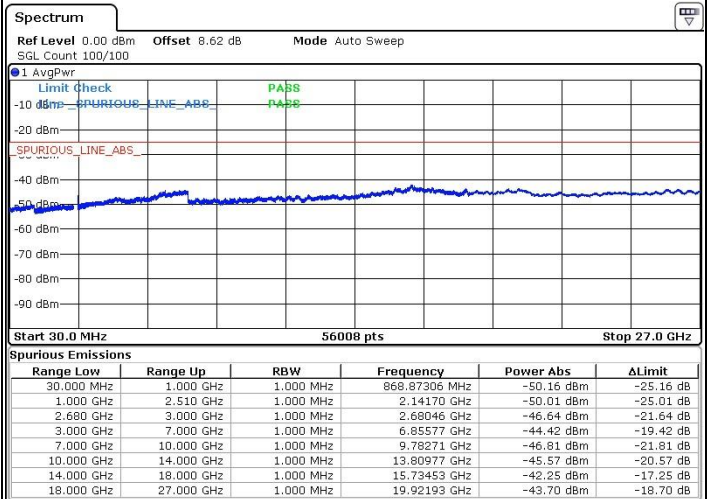
Date: 4 JUN 2019 20:15:30

Highest Channel / QPSK



Date: 4 JUN 2019 20:21:23

Highest Channel / 16QAM

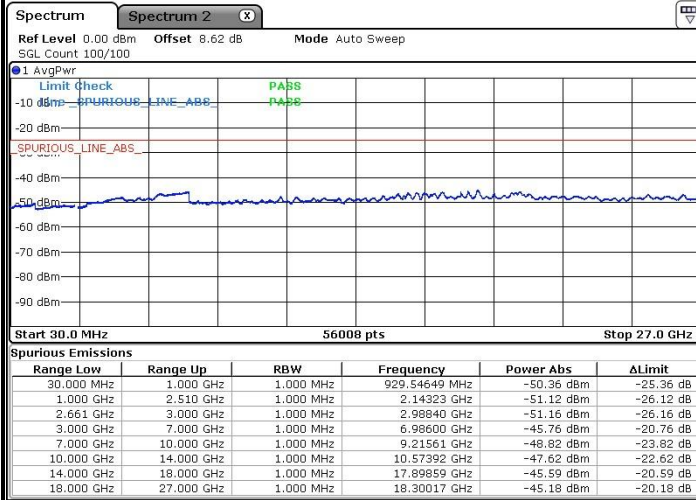


Date: 4 JUN 2019 20:20:31



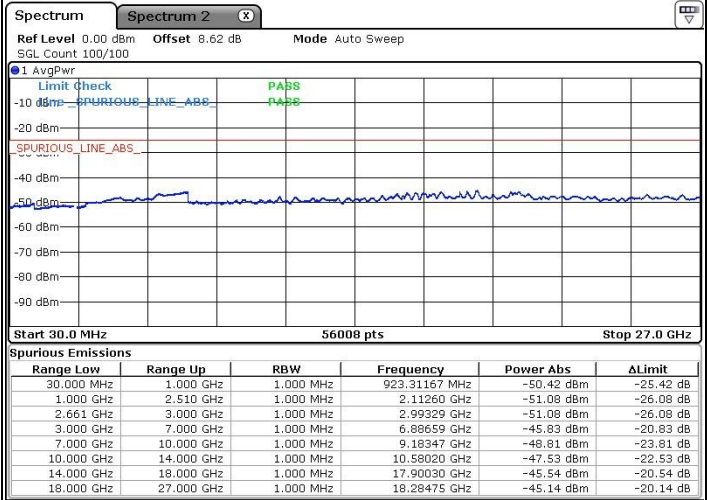
LTE Band 41 / 5MHz

Lowest Channel / 64QAM



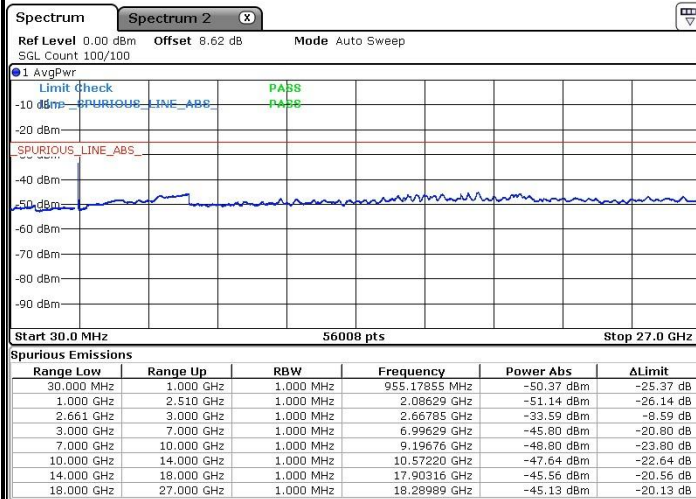
Date: 9 JUN 2019 15:14:02

Middle Channel / 64QAM



Date: 9 JUN 2019 15:02:46

Highest Channel / 64QAM

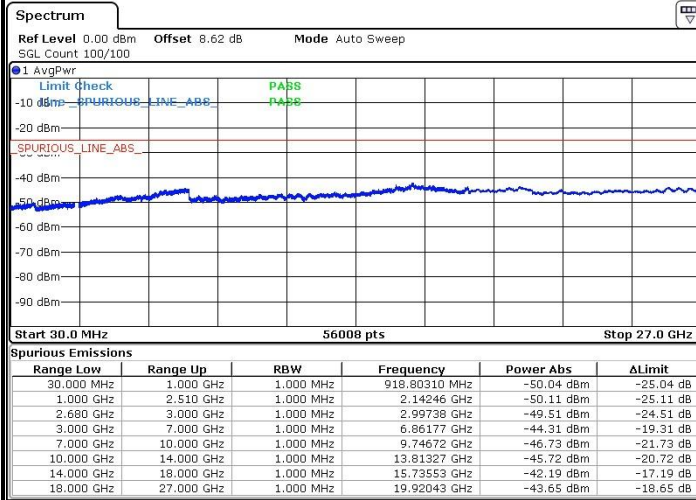


Date: 9 JUN 2019 14:57:21



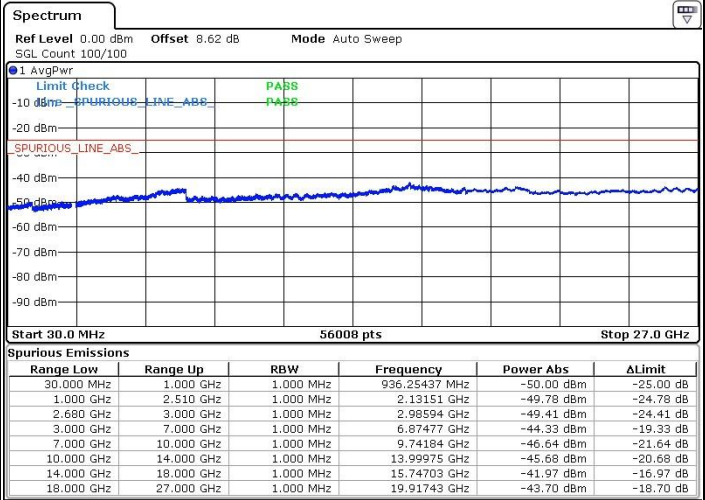
LTE Band 41 / 10MHz

Lowest Channel / 64QAM



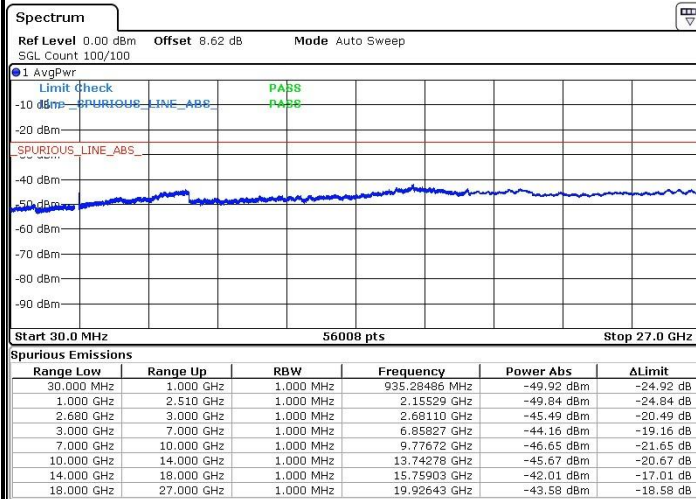
Date: 4 JUN 2019 20:03:44

Middle Channel / 64QAM



Date: 4 JUN 2019 19:59:36

Highest Channel / 64QAM

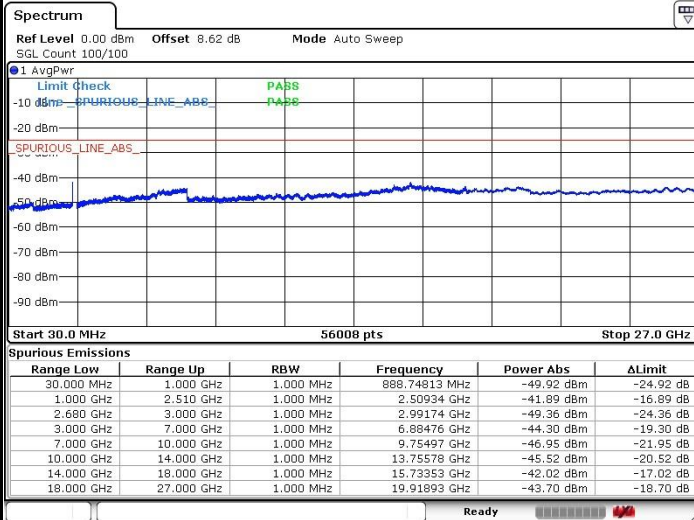


Date: 4 JUN 2019 20:04:30



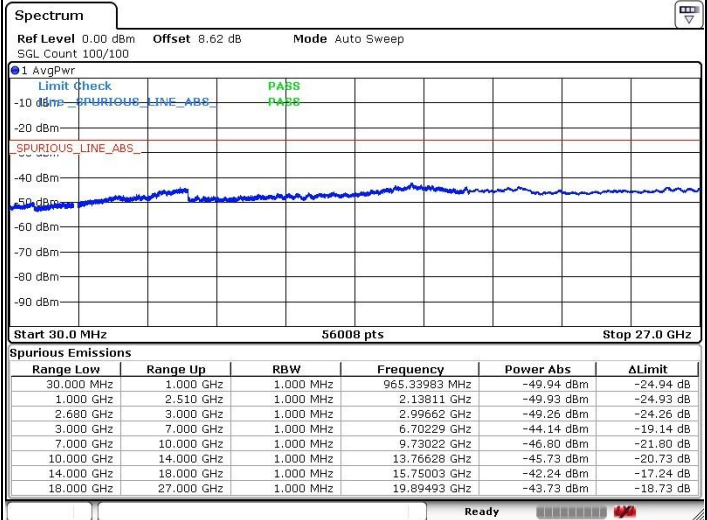
LTE Band 41 / 15MHz

Lowest Channel / 64QAM



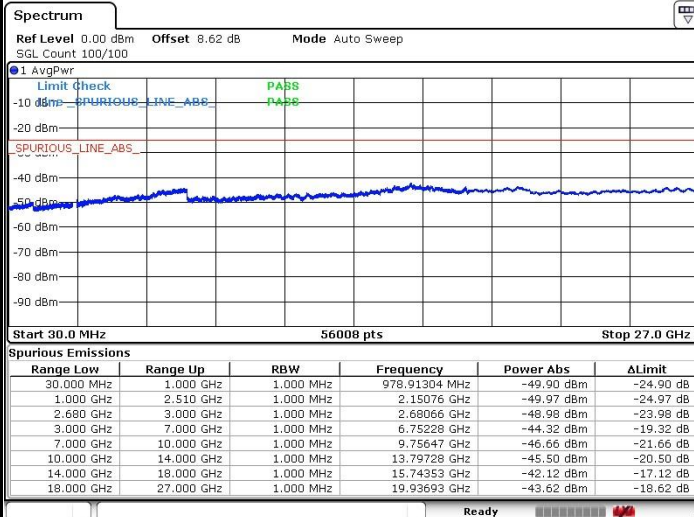
Date: 4 JUN 2019 20:09:32

Middle Channel / 64QAM



Date: 4 JUN 2019 20:08:47

Highest Channel / 64QAM

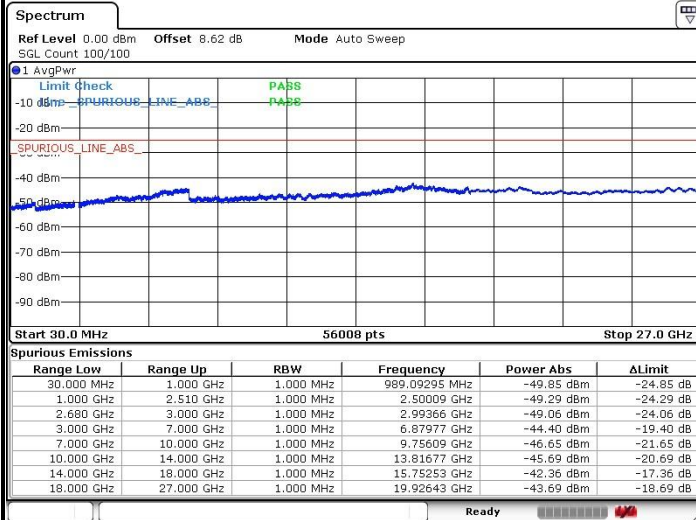


Date: 4 JUN 2019 20:13:35



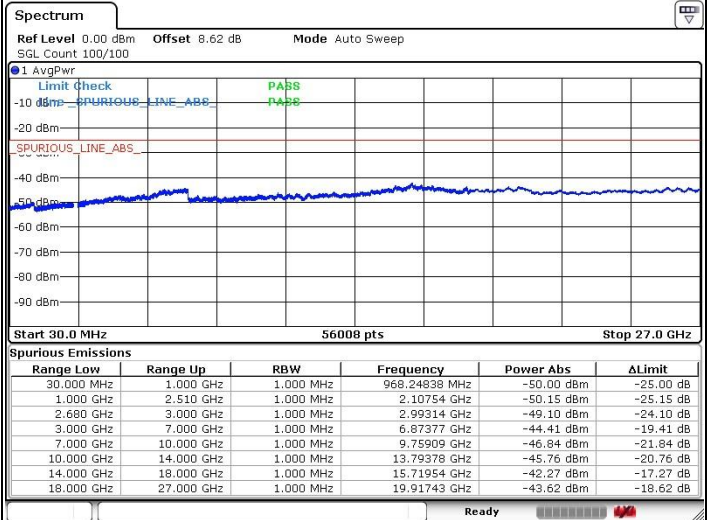
LTE Band 41 / 20MHz

Lowest Channel / 64QAM



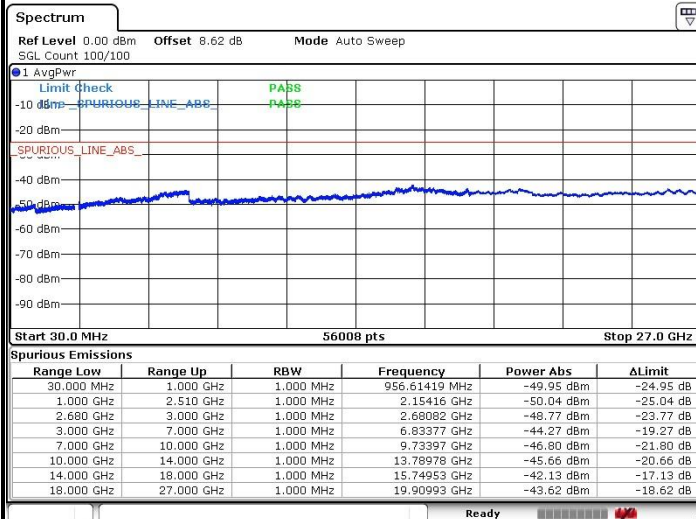
Date: 4 JUN 2019 20:18:49

Middle Channel / 64QAM



Date: 4 JUN 2019 20:14:39

Highest Channel / 64QAM



Date: 4 JUN 2019 20:19:40

**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	0.0020	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0018	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 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 38 / 5MHz / 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	5172	-59.88	-25	-34.88	-70.09	3.03	13.24	H
	7760	-46.54	-25	-21.54	-55.99	3.56	13.01	H
	10344	-59.38	-25	-34.38	-68.90	3.92	13.44	H
	5172	-54.44	-25	-29.44	-63.96	3.92	13.44	V
	7756	-45.78	-25	-20.78	-55.70	4.44	14.36	V
	10344	-59.70	-25	-34.70	-70.07	4.77	15.14	V

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

LTE Band 41 / 5MHz / 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	-61.99	-25	-36.99	-72.20	3.03	13.24	H
	7752	-50.18	-25	-25.18	-59.63	3.56	13.01	H
	10340	-59.79	-25	-34.79	-69.31	3.92	13.44	H
	5168	-62.32	-25	-37.32	-72.53	3.03	13.24	V
	7752	-54.96	-25	-29.96	-64.41	3.56	13.01	V
	10340	-59.53	-25	-34.53	-69.05	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 FG932901B which is issued separately.