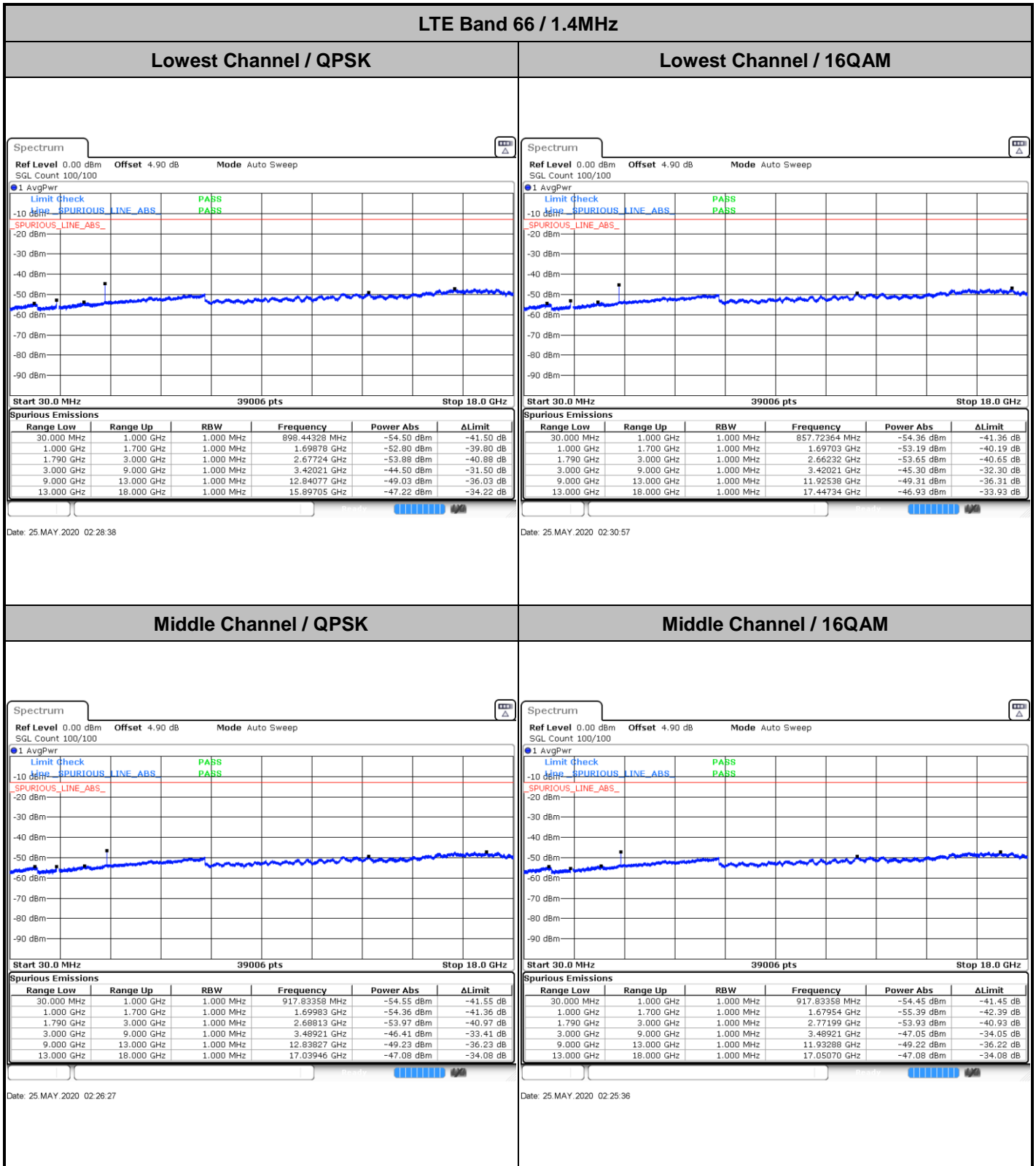




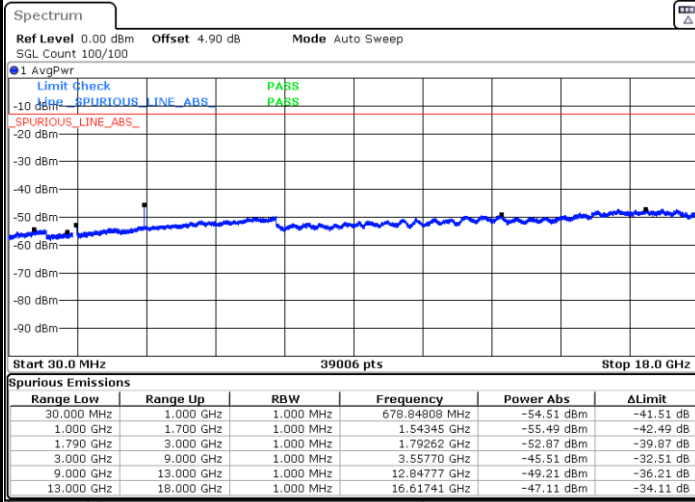
# Conducted Spurious Emission





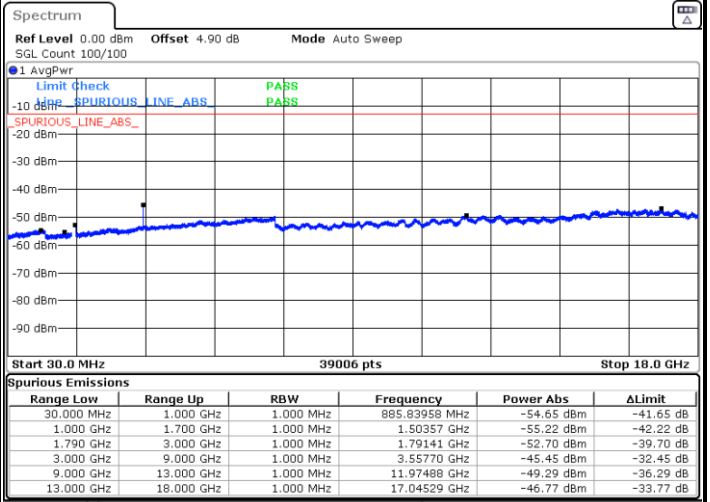
LTE Band 66 / 1.4MHz

Highest Channel / QPSK



Date: 25 MAY 2020 03:01:41

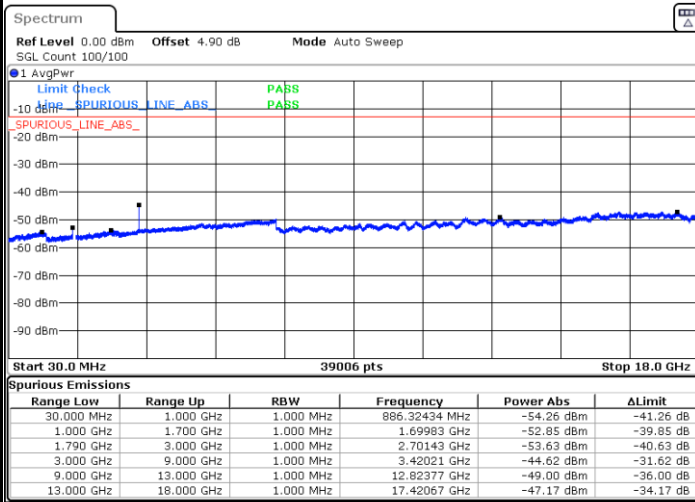
Highest Channel / 16QAM



Date: 25 MAY 2020 03:00:38

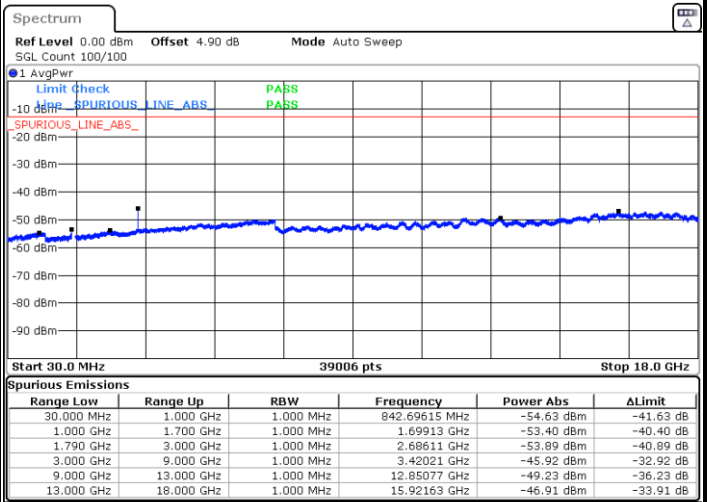
LTE Band 66 / 3MHz

Lowest Channel / QPSK



Date: 25 MAY 2020 02:08:13

Lowest Channel / 16QAM

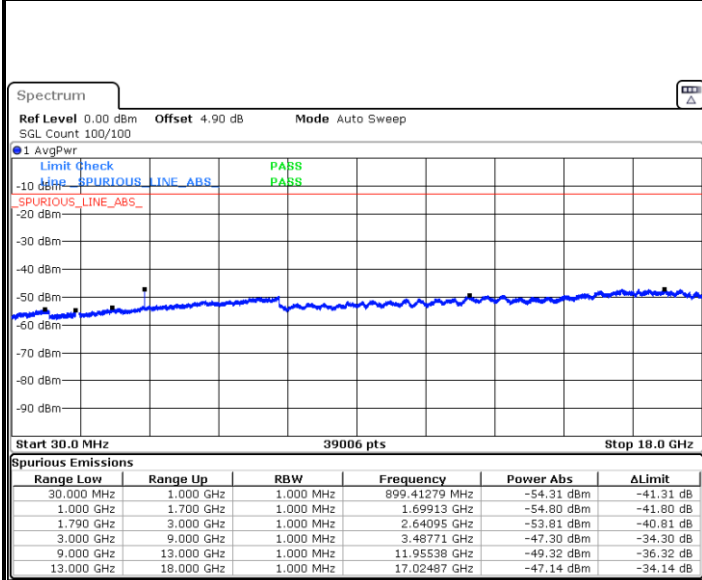


Date: 25 MAY 2020 02:05:42



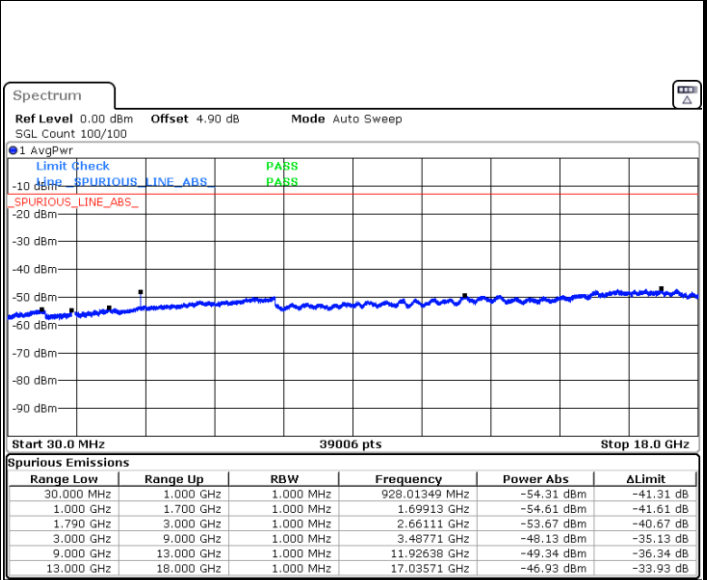
LTE Band 66 / 3MHz

Middle Channel / QPSK



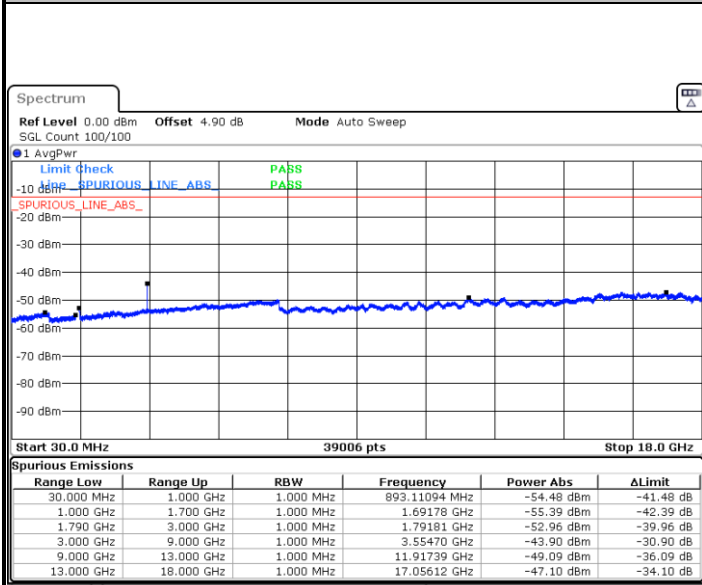
Date: 25 MAY 2020 02:01:44

Middle Channel / 16QAM



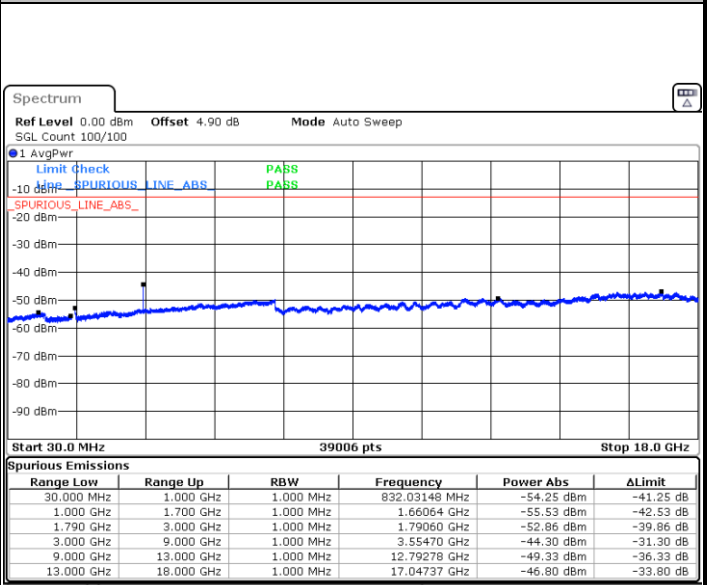
Date: 25 MAY 2020 02:02:40

Highest Channel / QPSK



Date: 25 MAY 2020 02:21:39

Highest Channel / 16QAM



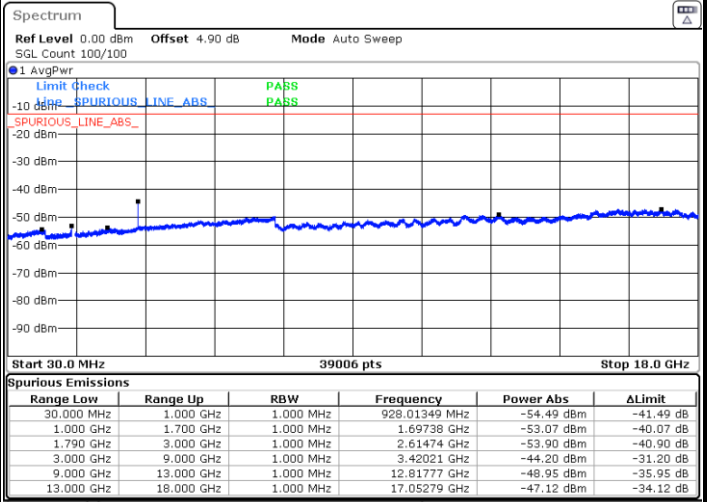
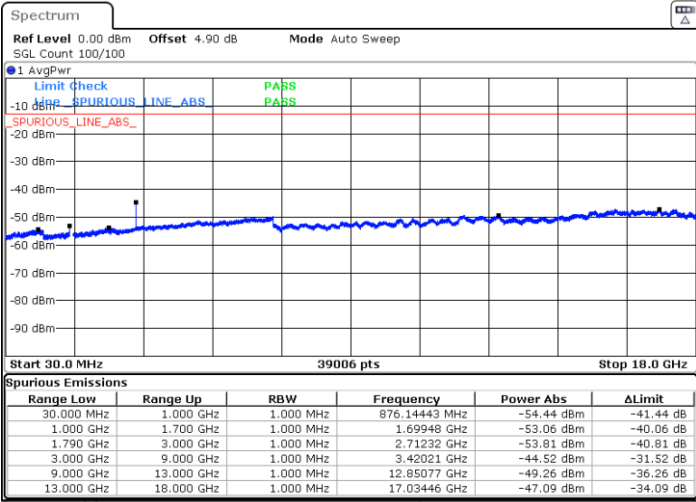
Date: 25 MAY 2020 02:20:46



LTE Band 66 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

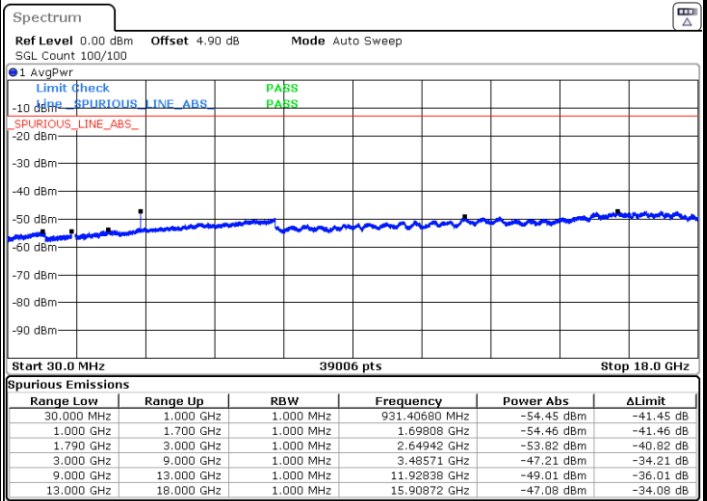
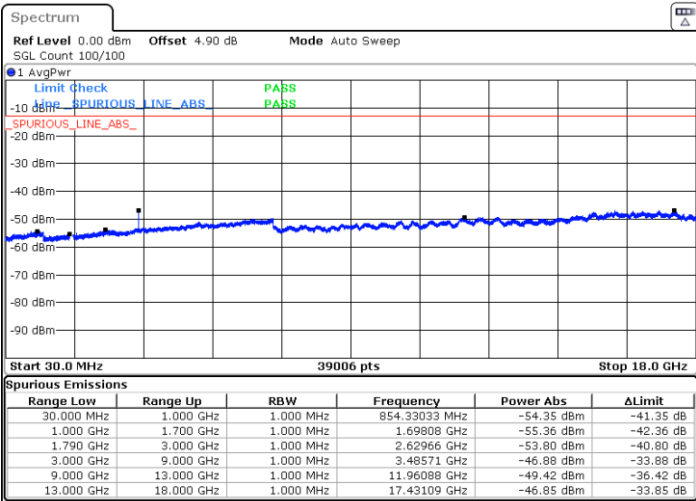


Date: 25 MAY 2020 00:21:36

Date: 25 MAY 2020 00:23:12

Middle Channel / QPSK

Middle Channel / 16QAM



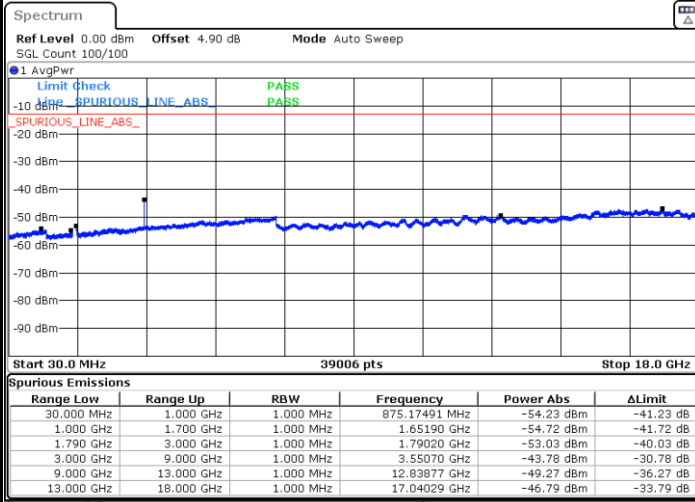
Date: 25 MAY 2020 00:20:51

Date: 25 MAY 2020 00:19:37



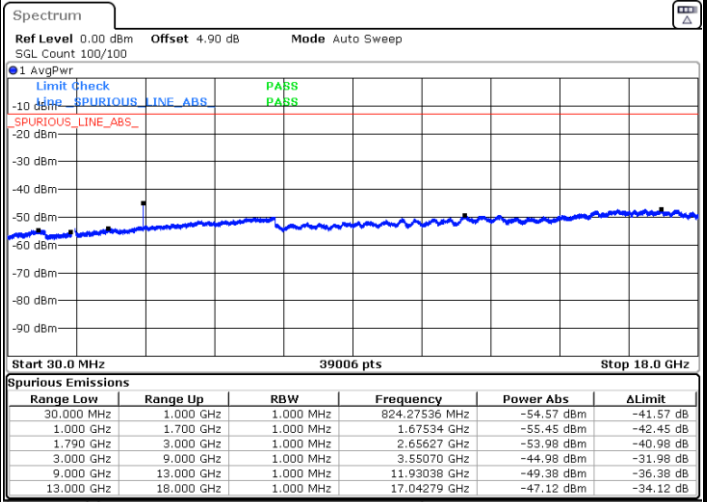
LTE Band 66 / 5MHz

Highest Channel / QPSK



Date: 25 MAY 2020 01:57:06

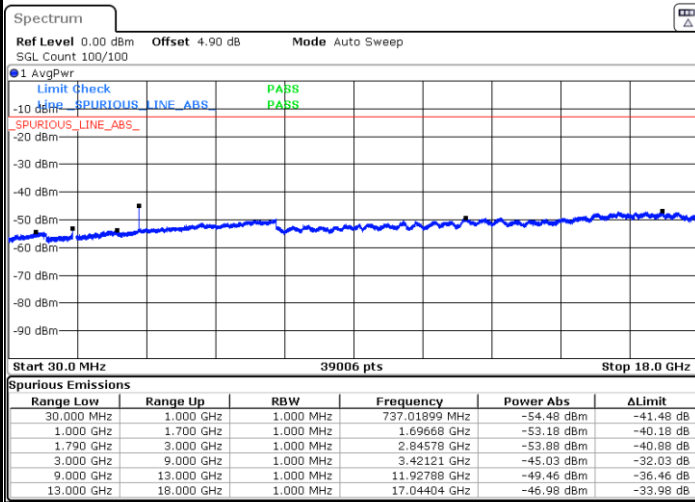
Highest Channel / 16QAM



Date: 25 MAY 2020 01:57:53

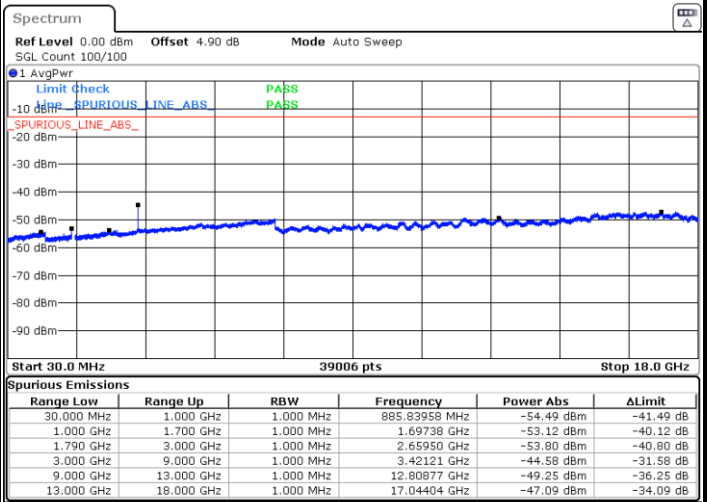
LTE Band 66 / 10MHz

Lowest Channel / QPSK



Date: 25 MAY 2020 00:07:43

Lowest Channel / 16QAM



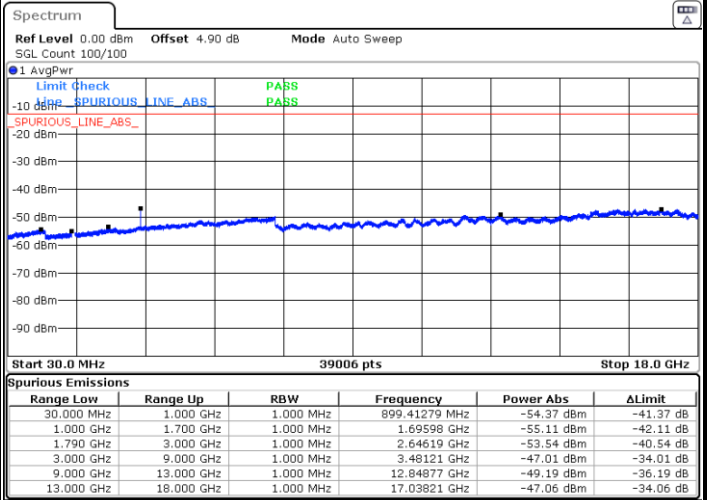
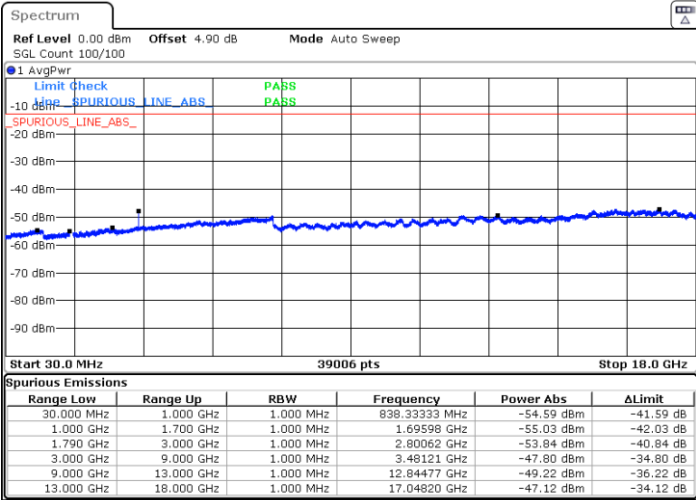
Date: 25 MAY 2020 00:06:50



LTE Band 66 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

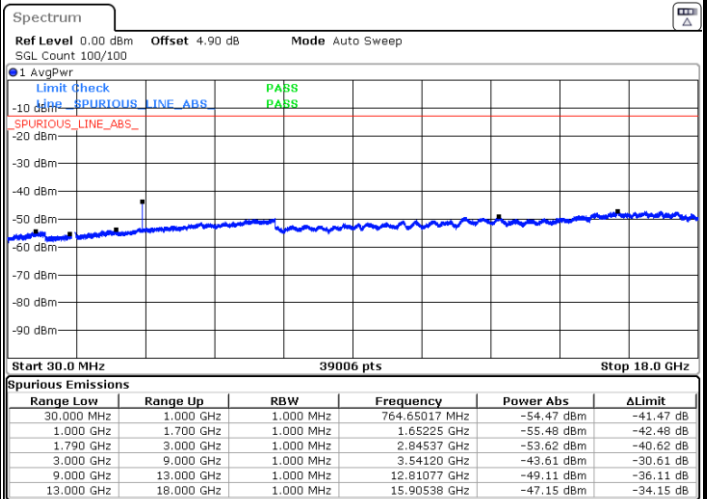
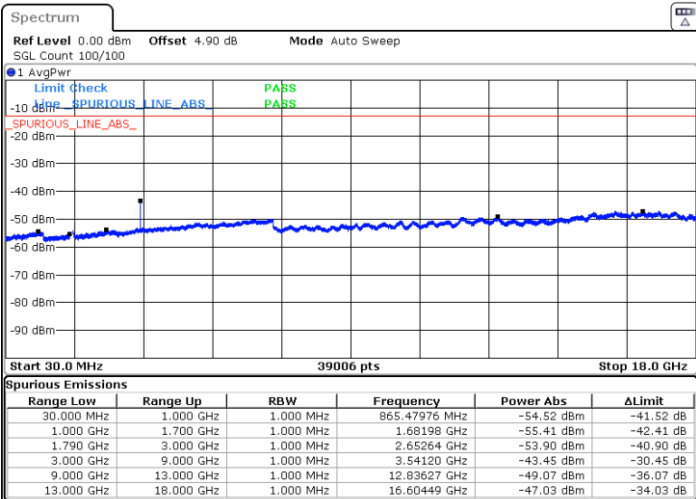


Date: 25 MAY 2020 00:03:21

Date: 25 MAY 2020 00:04:27

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25 MAY 2020 00:15:31

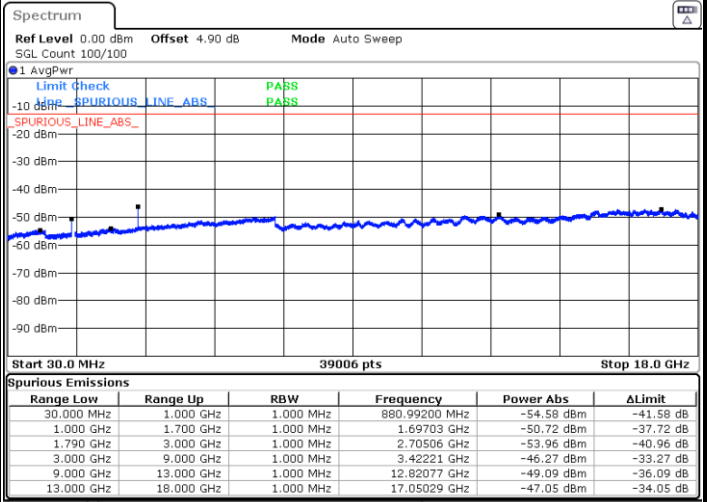
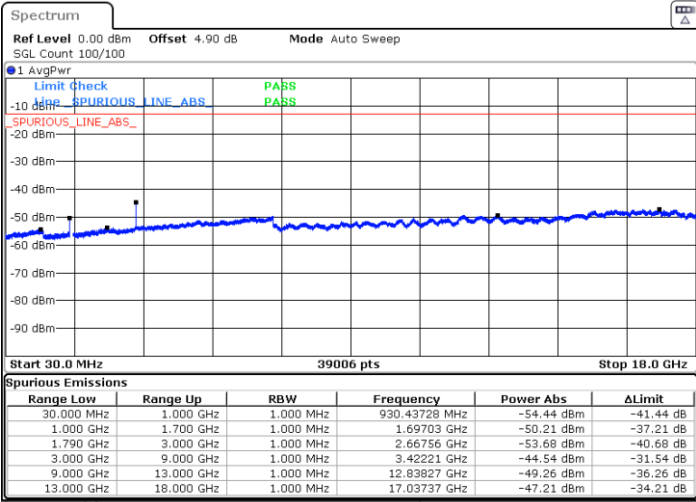
Date: 25 MAY 2020 00:15:52



LTE Band 66 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

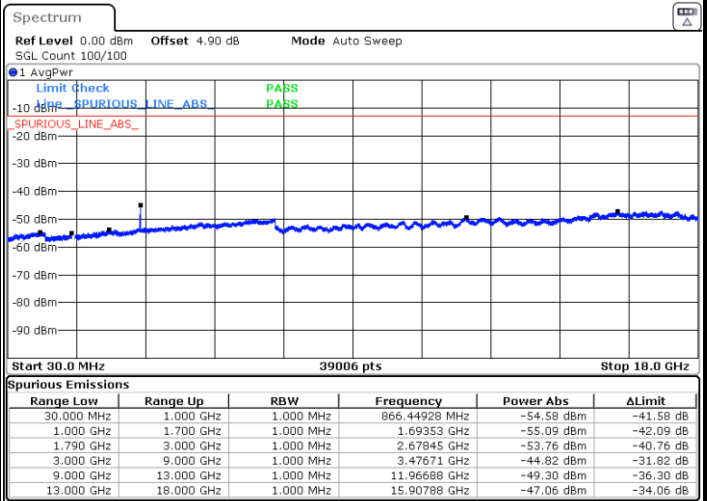
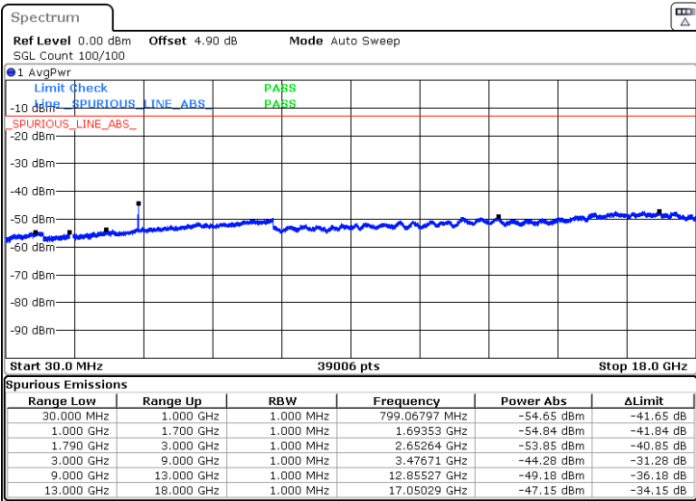


Date: 24 MAY 2020 23:55:03

Date: 24 MAY 2020 23:48:46

Middle Channel / QPSK

Middle Channel / 16QAM



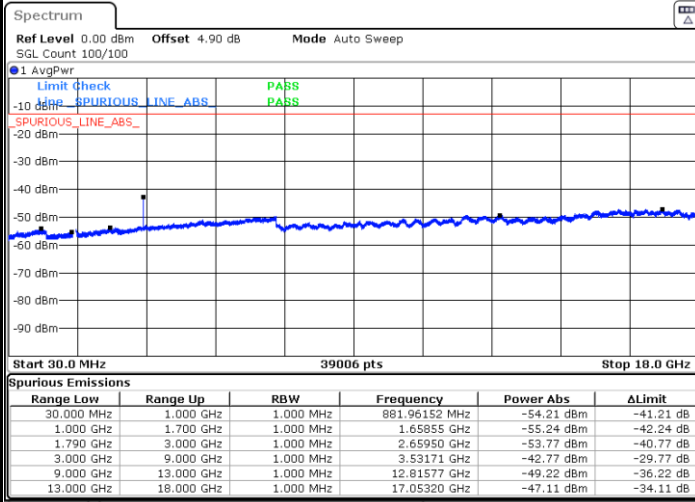
Date: 24 MAY 2020 23:38:56

Date: 24 MAY 2020 23:40:08



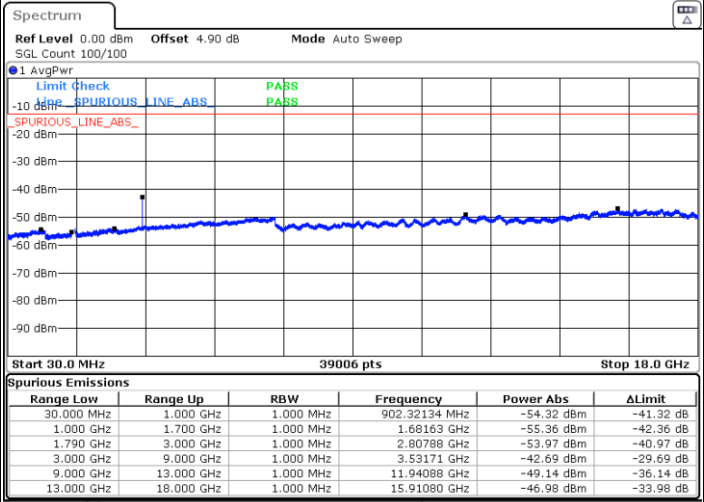
LTE Band 66 / 15MHz

Highest Channel / QPSK



Date: 24 MAY 2020 23:55:55

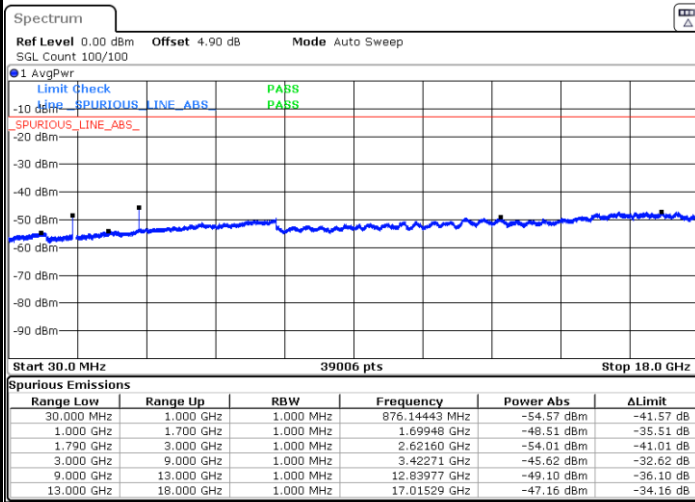
Highest Channel / 16QAM



Date: 24 MAY 2020 23:56:48

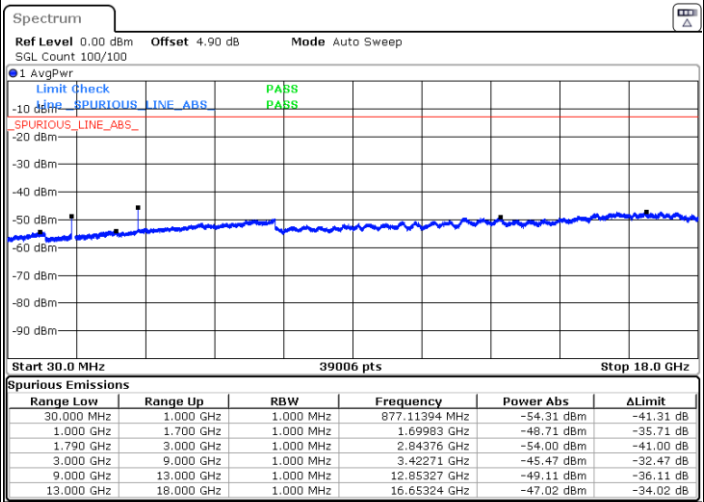
LTE Band 66 / 20MHz

Lowest Channel / QPSK



Date: 24 MAY 2020 23:34:00

Lowest Channel / 16QAM



Date: 24 MAY 2020 23:31:53

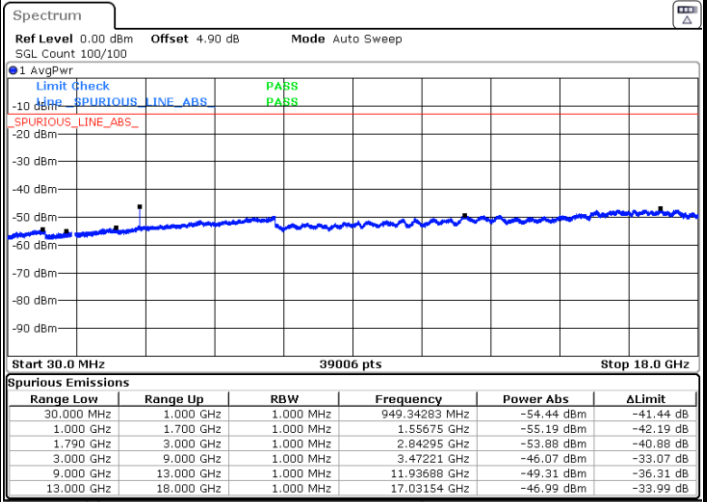
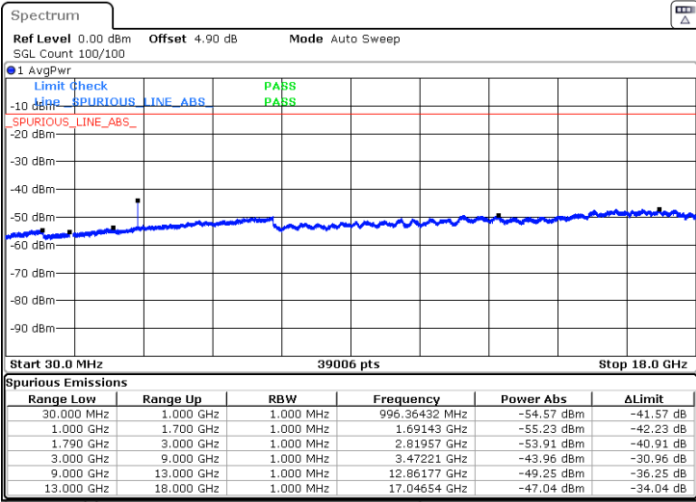




LTE Band 66 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

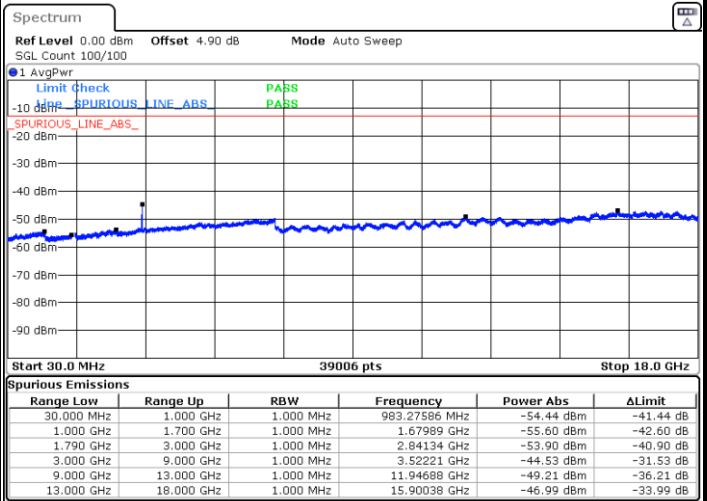
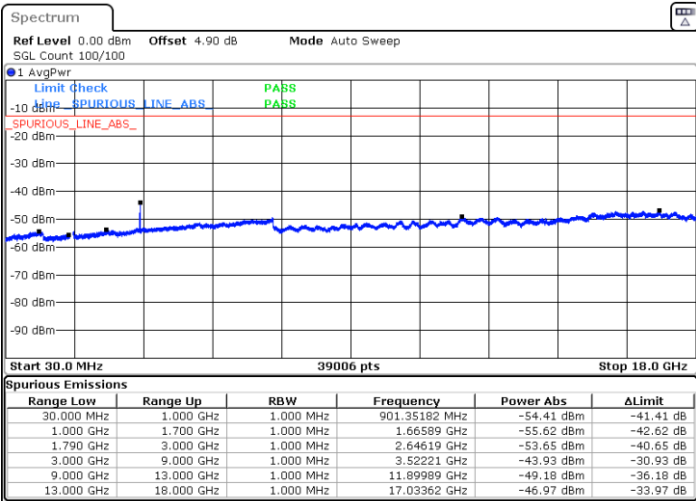


Date: 24 MAY 2020 23:14:42

Date: 24 MAY 2020 23:15:30

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 24 MAY 2020 23:06:30

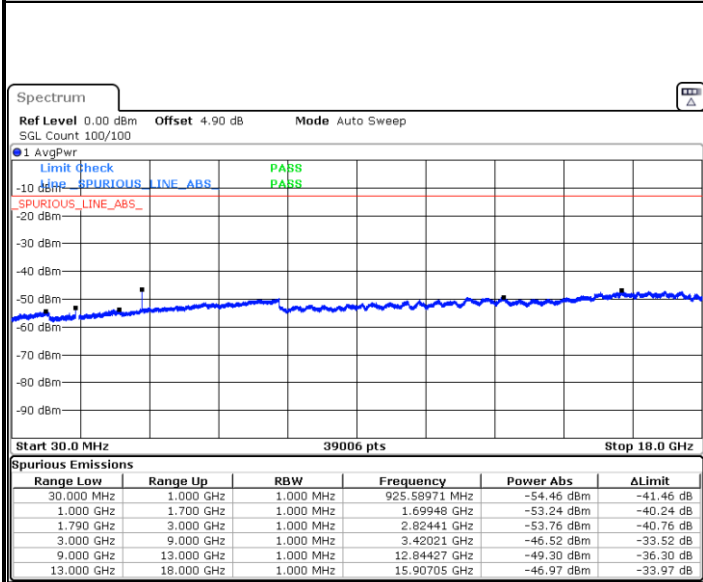
Date: 24 MAY 2020 23:08:08





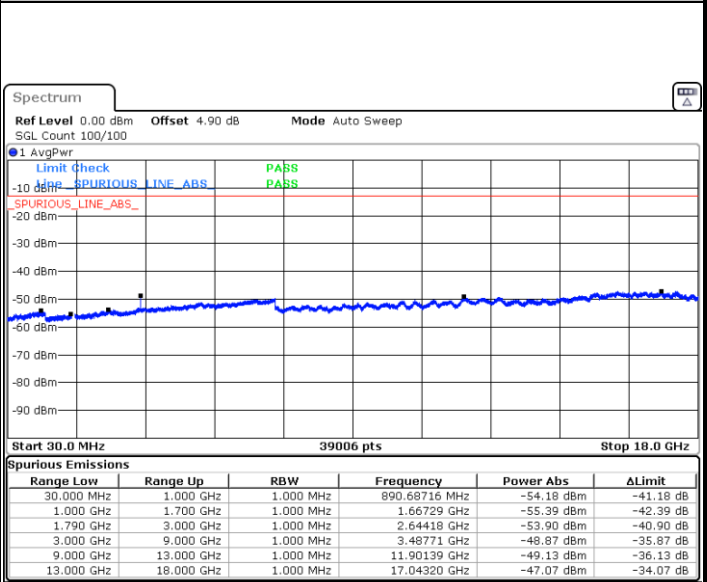
**LTE Band 66 / 3MHz**

**Lowest Channel / 64QAM**



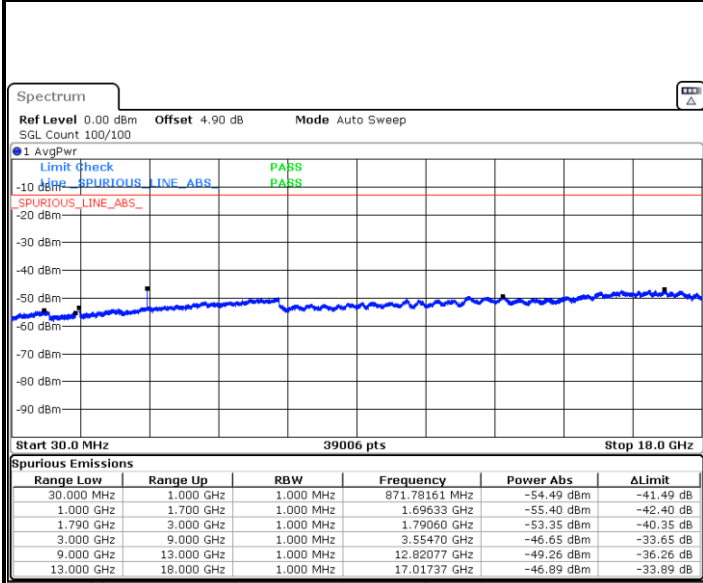
Date: 25 MAY 2020 02:04:56

**Middle Channel / 64QAM**



Date: 25 MAY 2020 02:03:27

**Highest Channel / 64QAM**



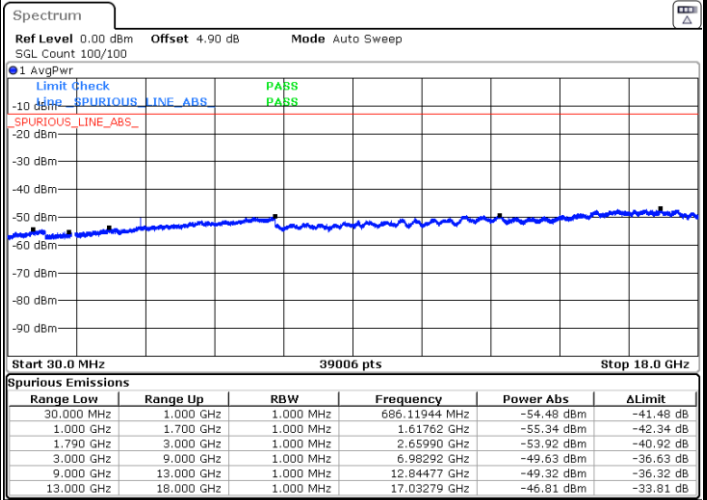
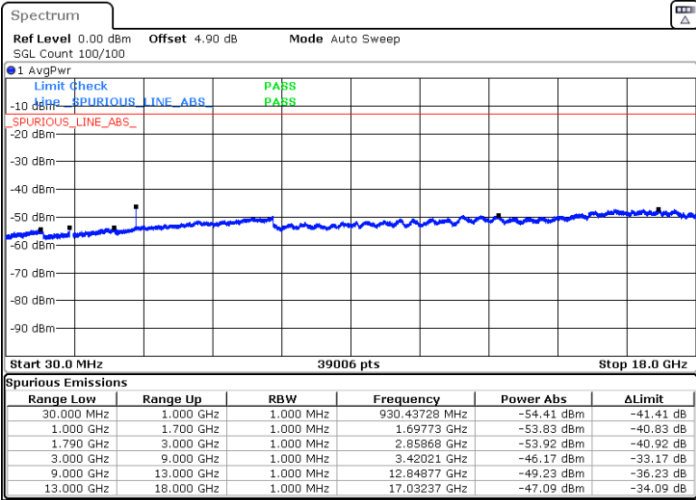
Date: 25 MAY 2020 02:19:42



LTE Band 66 / 5MHz

Lowest Channel / 64QAM

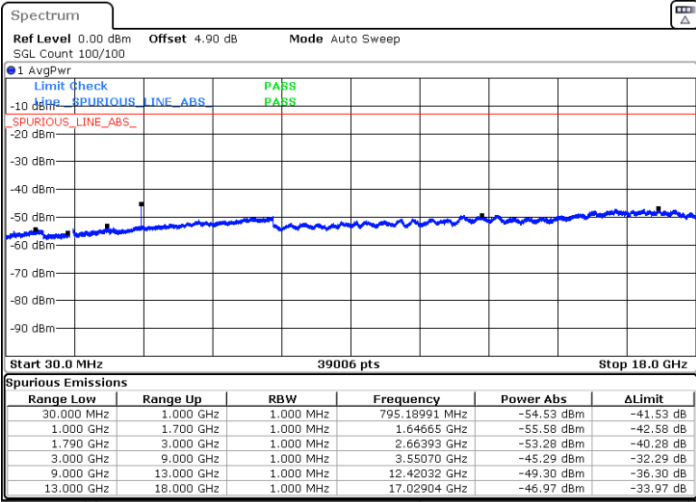
Middle Channel / 64QAM



Date: 25 MAY 2020 00:24:52

Date: 25 MAY 2020 00:18:38

Highest Channel / 64QAM

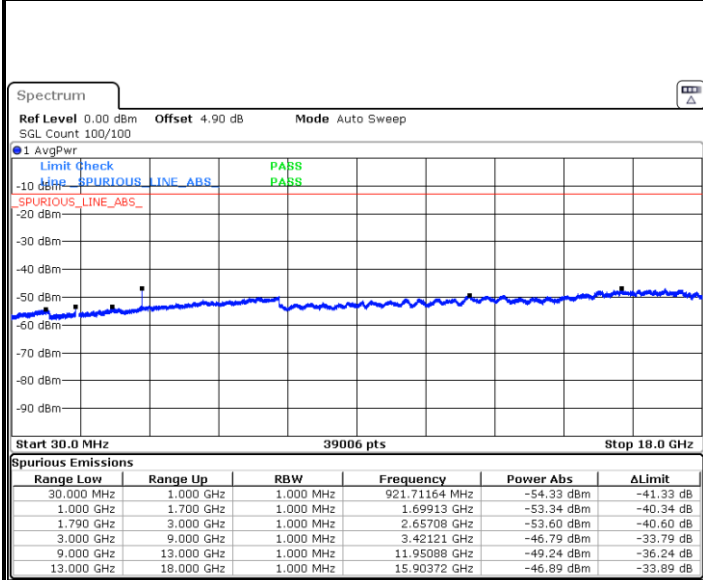


Date: 25 MAY 2020 01:58:45



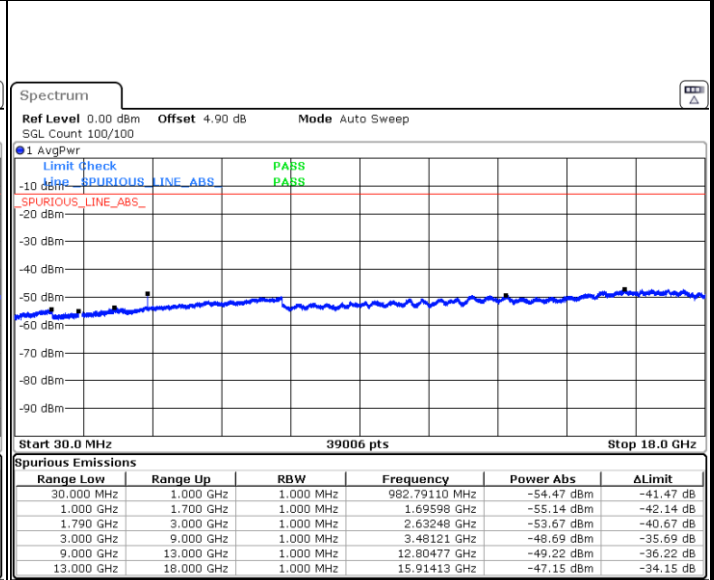
**LTE Band 66 / 10MHz**

**Lowest Channel / 64QAM**



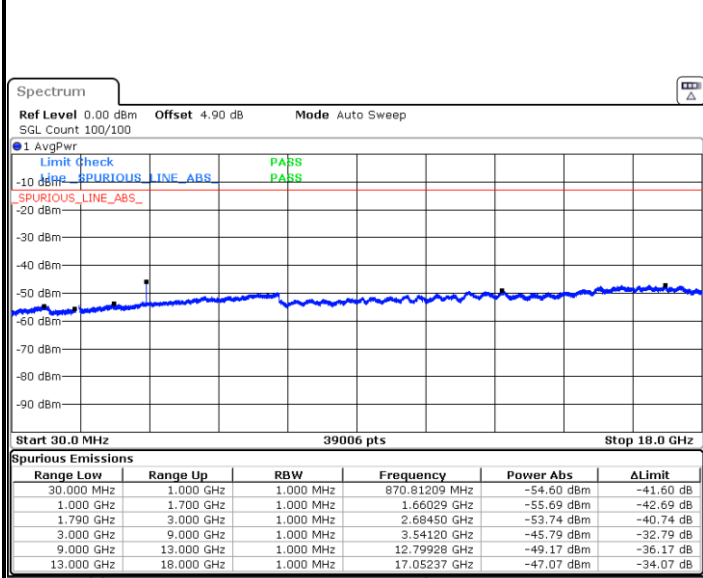
Date: 25 MAY 2020 00:05:50

**Middle Channel / 64QAM**



Date: 25 MAY 2020 00:05:07

**Highest Channel / 64QAM**



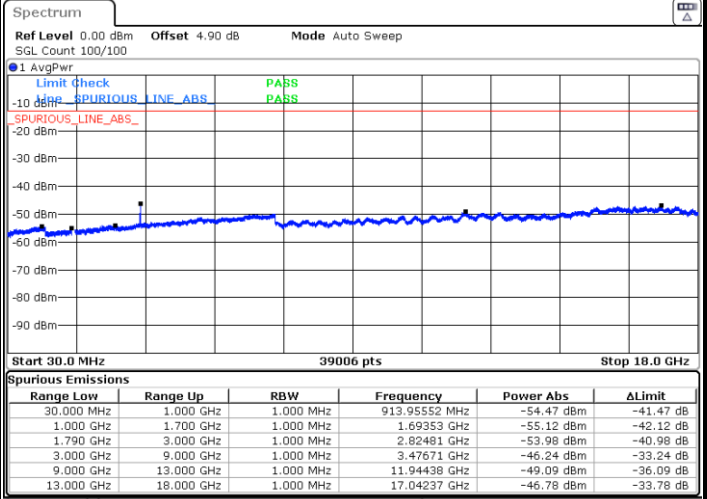
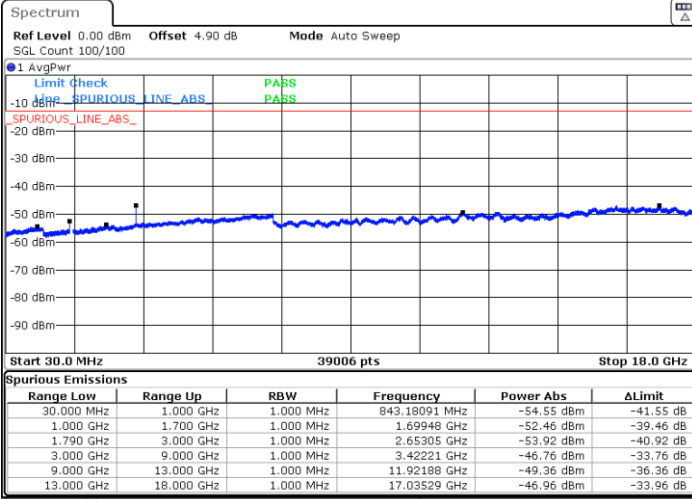
Date: 25 MAY 2020 00:13:02



LTE Band 66 / 15MHz

Lowest Channel / 64QAM

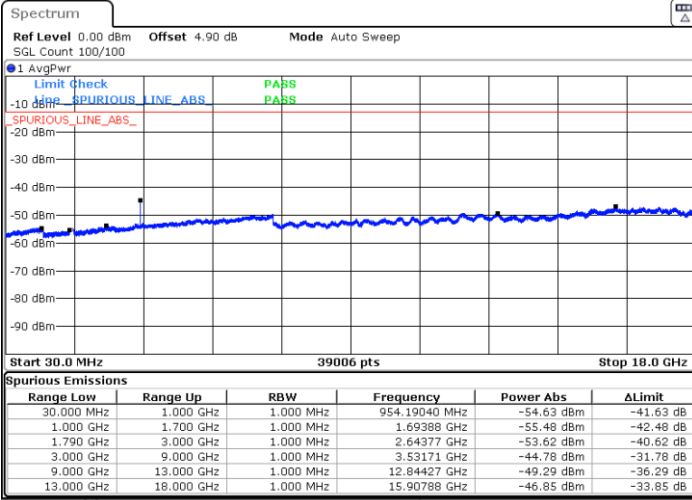
Middle Channel / 64QAM



Date: 24 MAY 2020 23:47:41

Date: 24 MAY 2020 23:42:16

Highest Channel / 64QAM



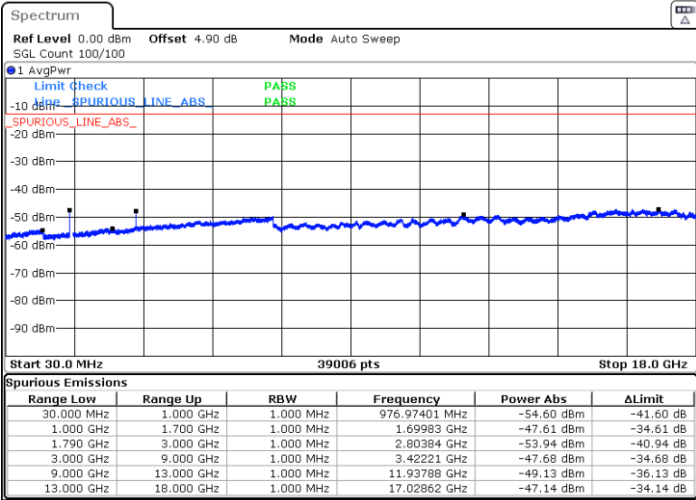
Date: 24 MAY 2020 23:57:44



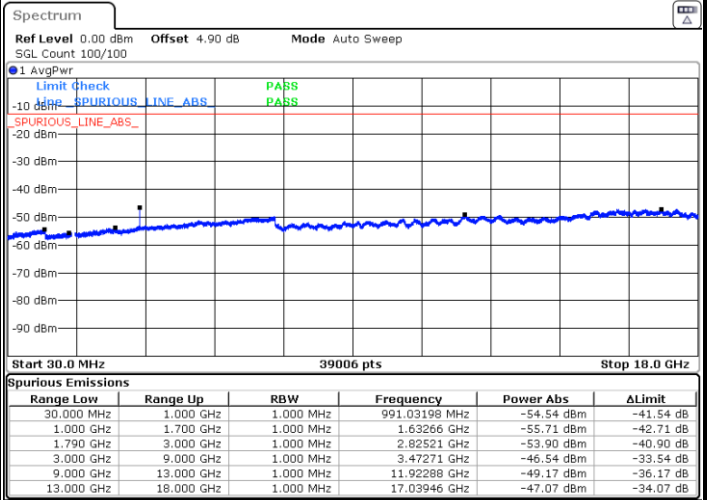
LTE Band 66 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

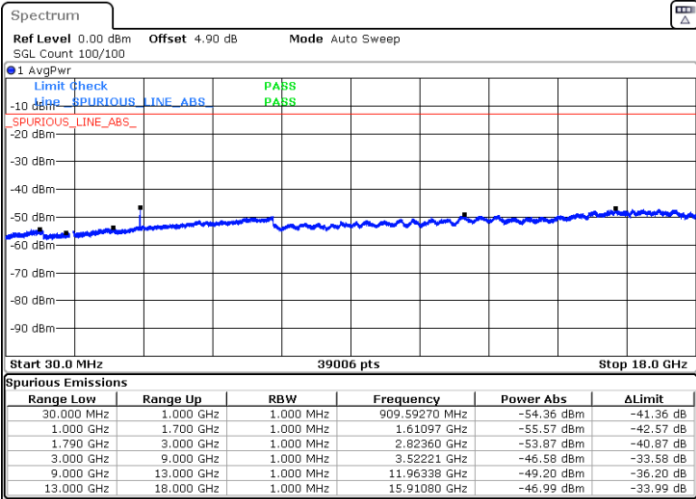


Date: 24 MAY 2020 23:30:38



Date: 24 MAY 2020 23:17:06

Highest Channel / 64QAM



Date: 24 MAY 2020 23:08:54



Frequency Stability

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0039	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0040	
0	Normal Voltage	0.0031	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0033	
20	Maximum Voltage	0.0042	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0009	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 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

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	-52.18	-13	-39.18	-64.44	2.64	14.90	H
	5613	-50.78	-13	-37.78	-62.64	2.94	14.80	H
	7488	-48.67	-13	-35.67	-58.44	3.39	13.16	H
	3741	-56.72	-13	-43.72	-68.98	2.64	14.90	V
	5613	-49.86	-13	-36.86	-61.72	2.94	14.80	V
	7488	-48.74	-13	-35.74	-58.51	3.39	13.16	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	3447	-57.99	-13	-44.99	-68.73	2.604	13.34	H
	5172	-51.30	-13	-38.30	-61.81	3.011	13.52	H
	6900	-50.42	-13	-37.42	-60.62	3.271	13.47	H
	3447	-58.74	-13	-45.74	-69.48	2.604	13.34	V
	5172	-52.70	-13	-39.70	-63.21	3.011	13.52	V
	6900	-50.35	-13	-37.35	-60.55	3.271	13.47	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	-68.38	-13	-55.38	-75.35	1.58	10.70	H
	2490	-65.55	-13	-52.55	-73.80	2.102	12.50	H
	3318	-65.33	-13	-52.33	-74.22	2.856	13.90	H
	1660	-68.31	-13	-55.31	-75.28	1.58	10.70	V
	2490	-63.33	-13	-50.33	-71.58	2.10	12.50	V
	3318	-65.27	-13	-52.27	-74.16	2.86	13.90	V

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

LTE Band 66 / 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	3471	-51.03	-13	-38.03	-61.77	2.604	13.34	H
	5208	-48.53	-13	-35.53	-59.04	3.011	13.52	H
	6948	-50.70	-13	-37.70	-60.90	3.271	13.47	H
	3471	-58.77	-13	-45.77	-69.51	2.604	13.34	V
	5208	-53.17	-13	-40.17	-63.68	3.011	13.52	V
	6948	-50.24	-13	-37.24	-60.44	3.271	13.47	V

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