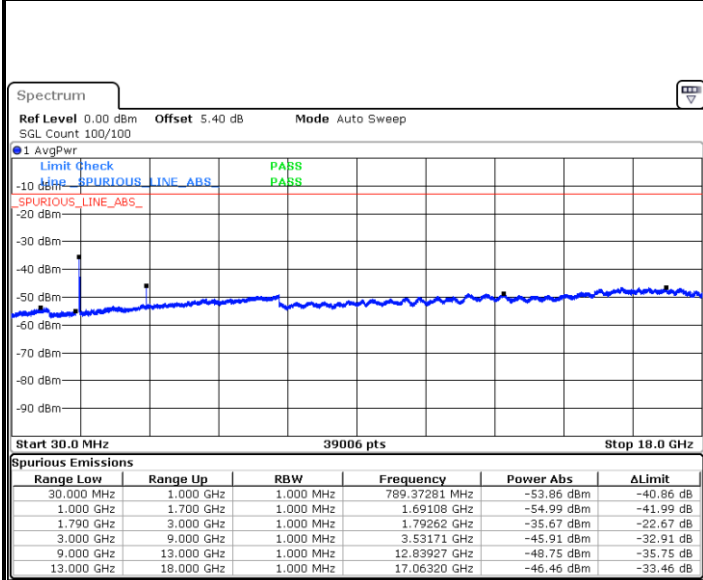




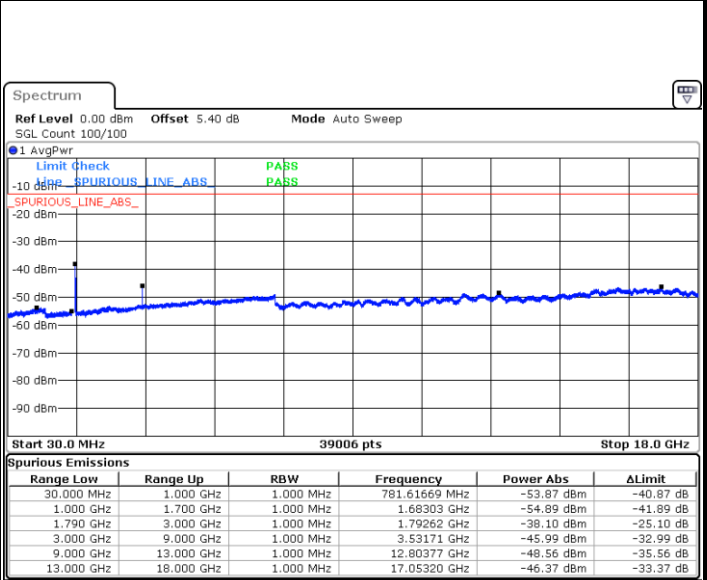
LTE Band 66 / 15MHz

Highest Channel / QPSK



Date: 8 MAR 2020 14:40:00

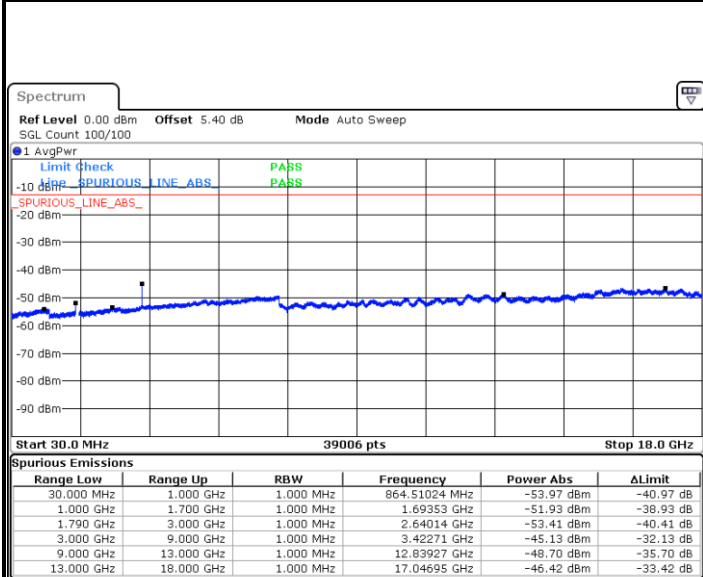
Highest Channel / 16QAM



Date: 8 MAR 2020 14:39:14

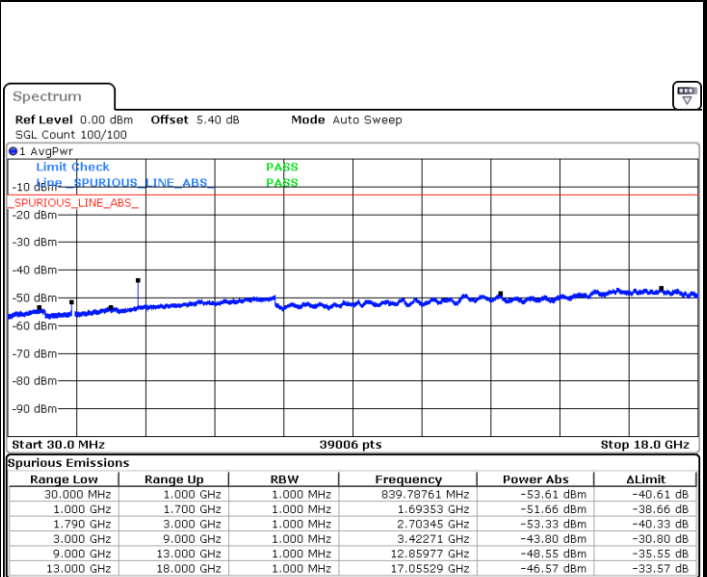
LTE Band 66 / 20MHz

Lowest Channel / QPSK



Date: 8 MAR 2020 14:45:05

Lowest Channel / 16QAM



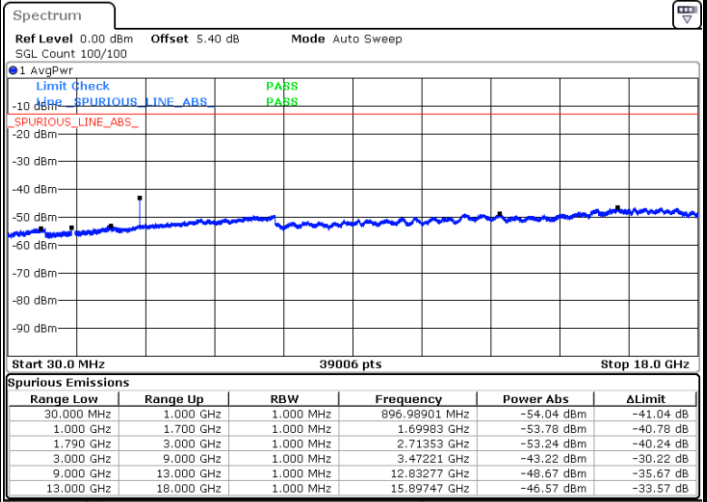
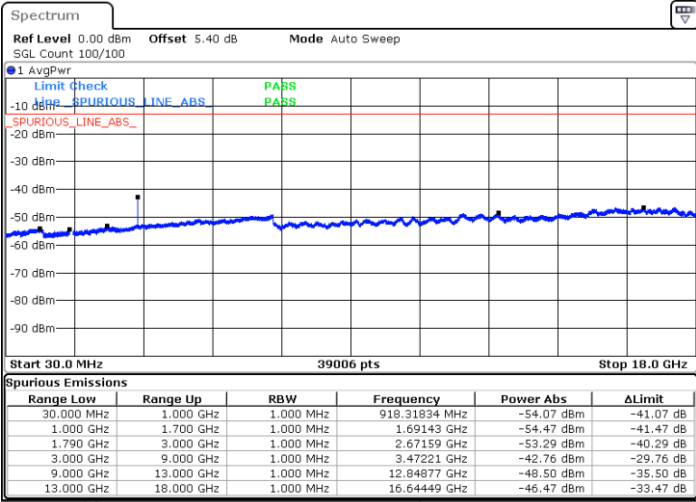
Date: 8 MAR 2020 14:46:10



LTE Band 66 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

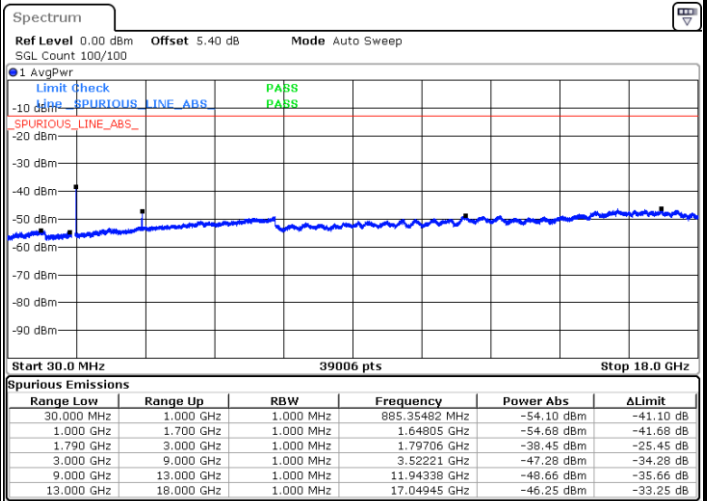
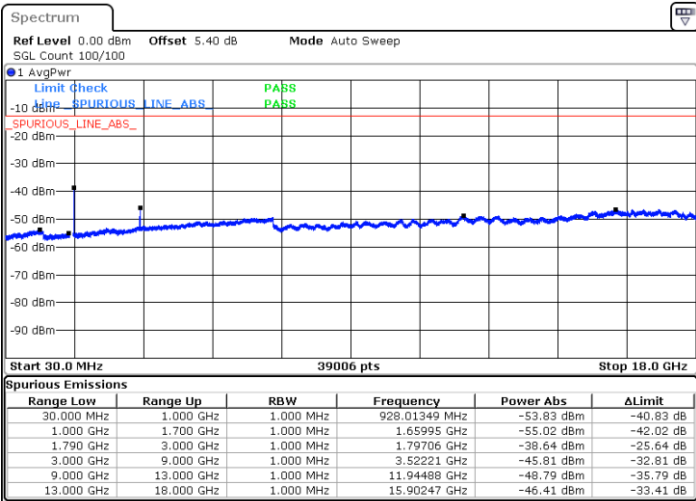


Date: 8 MAR 2020 14:50:26

Date: 8 MAR 2020 14:49:22

Highest Channel / QPSK

Highest Channel / 16QAM

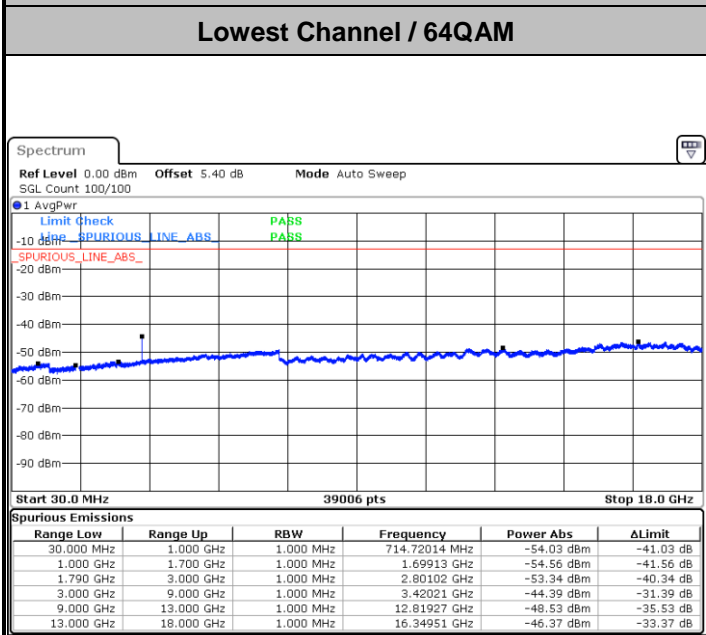


Date: 8 MAR 2020 14:58:03

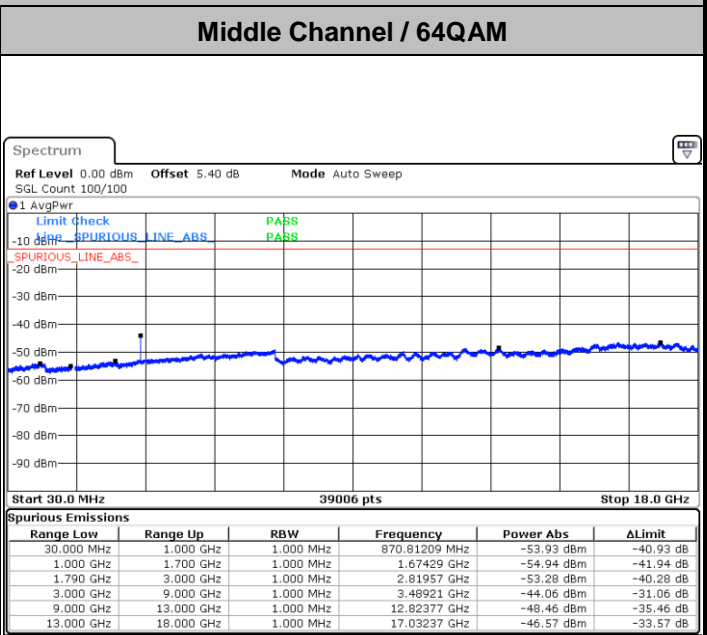
Date: 8 MAR 2020 14:56:54



LTE Band 66 / 1.4MHz

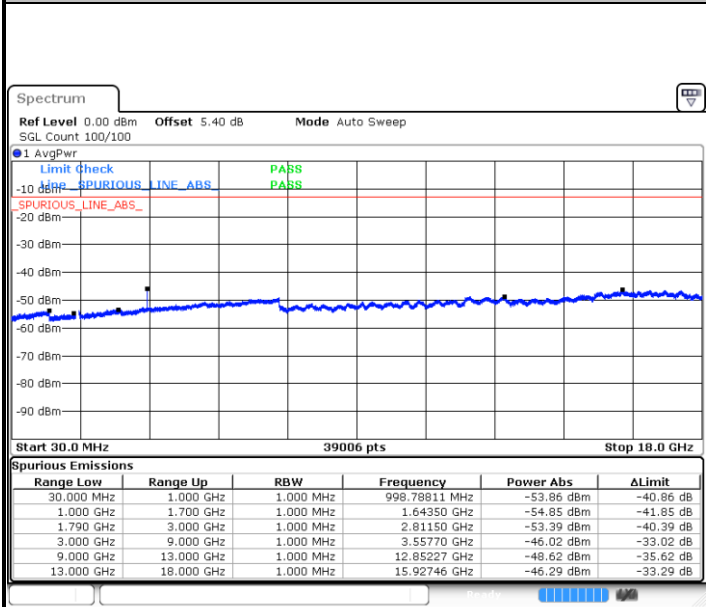


Date: 8 MAR 2020 12:08:33



Date: 8 MAR 2020 12:48:53

Highest Channel / 64QAM

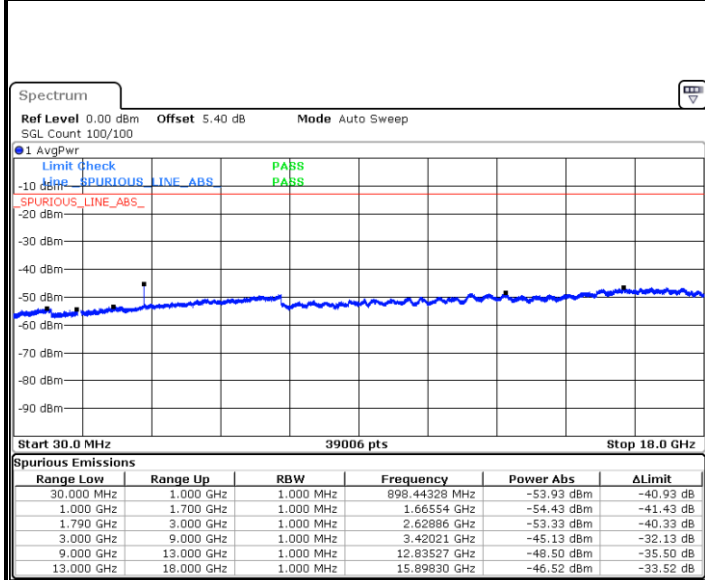


Date: 8 MAR 2020 12:53:14



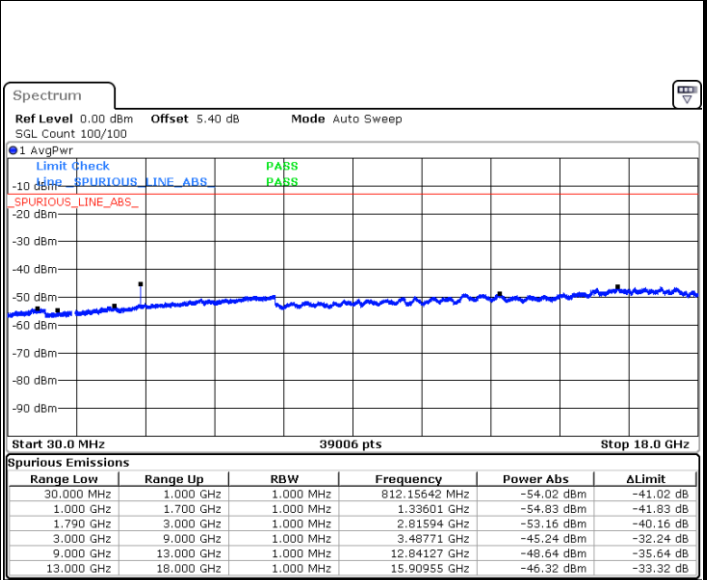
LTE Band 66 / 3MHz

Lowest Channel / 64QAM



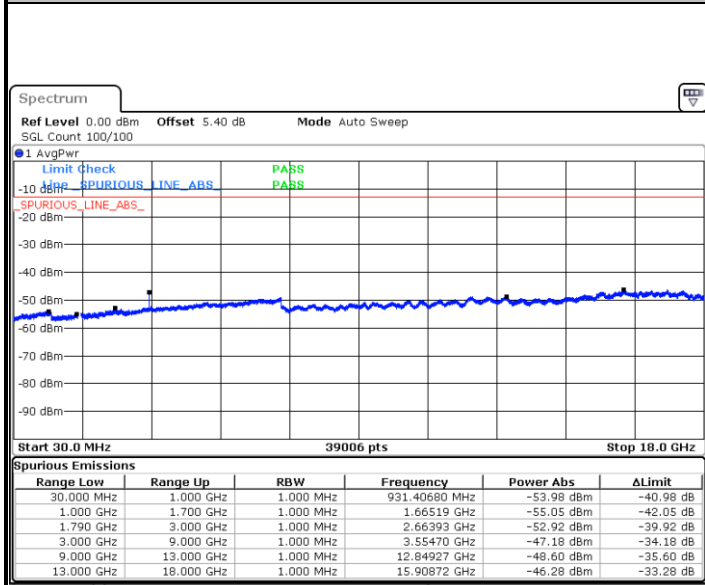
Date: 8 MAR 2020 13:10:31

Middle Channel / 64QAM



Date: 8 MAR 2020 13:17:44

Highest Channel / 64QAM

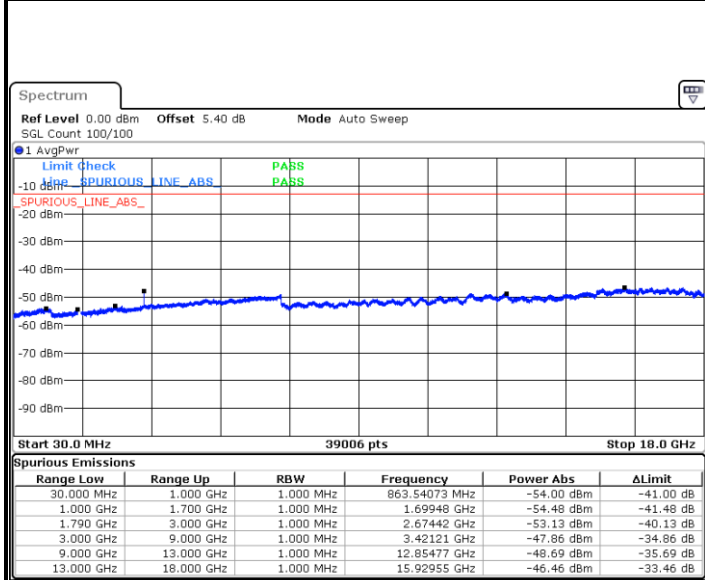


Date: 8 MAR 2020 13:27:21



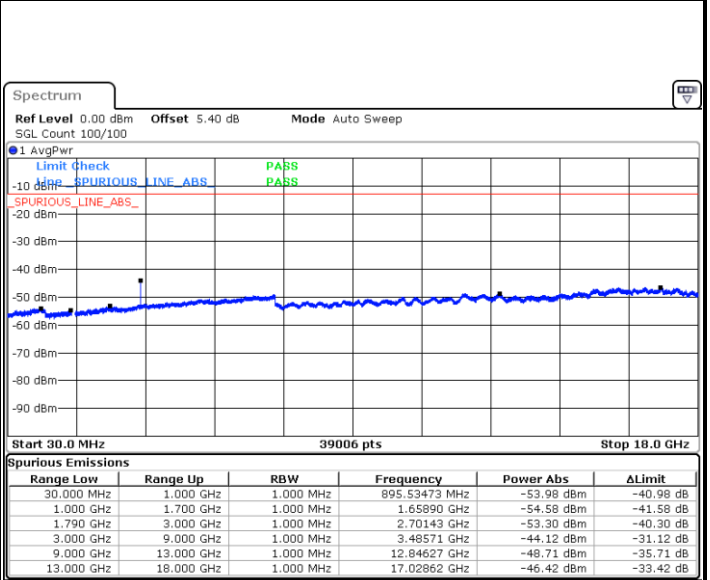
LTE Band 66 / 5MHz

Lowest Channel / 64QAM



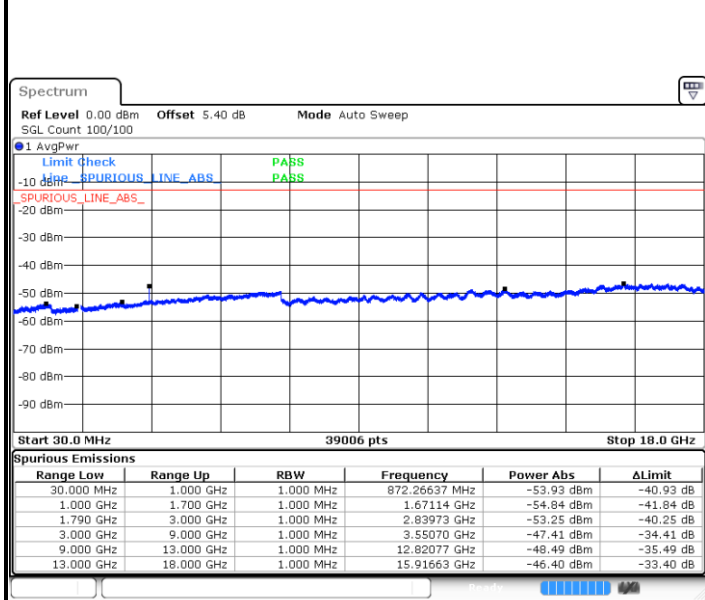
Date: 8 MAR 2020 13:52:26

Middle Channel / 64QAM



Date: 8 MAR 2020 13:53:25

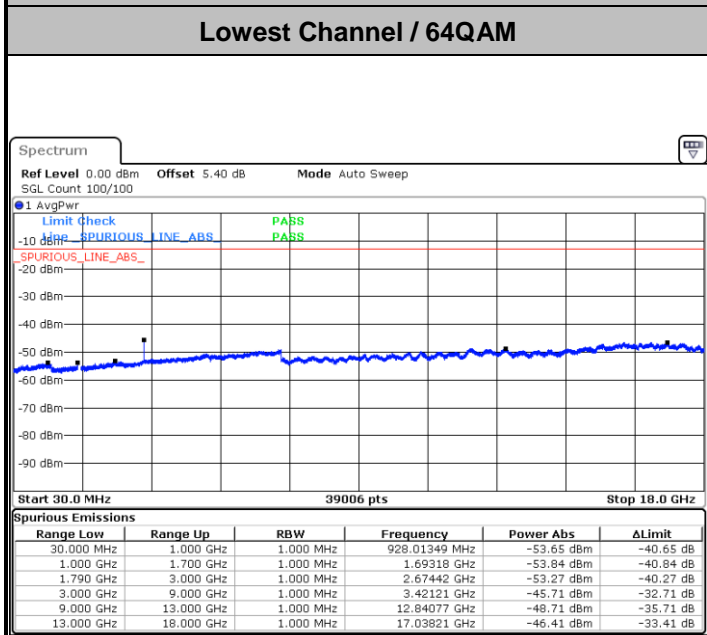
Highest Channel / 64QAM



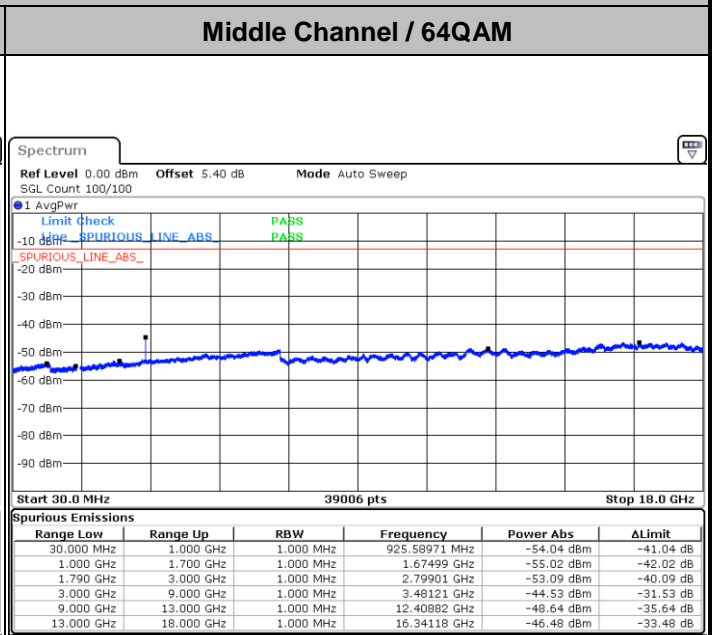
Date: 8 MAR 2020 14:01:54



LTE Band 66 / 10MHz

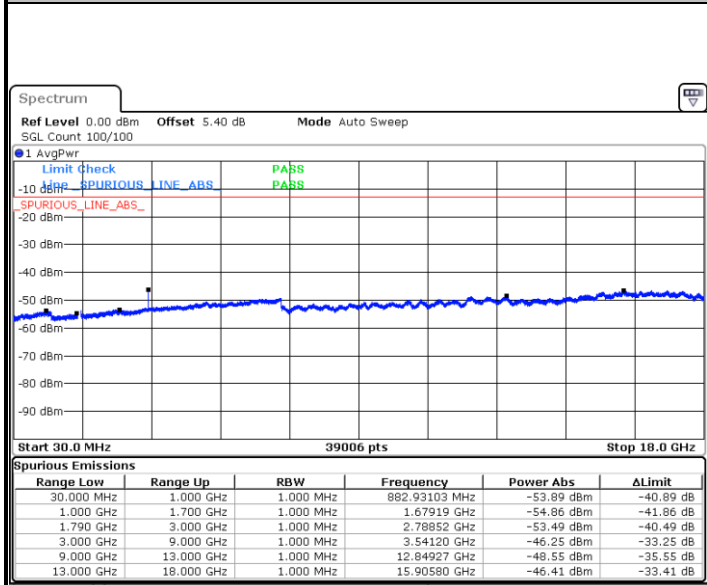


Date: 8 MAR 2020 14:07:54



Date: 8 MAR 2020 14:12:23

Highest Channel / 64QAM

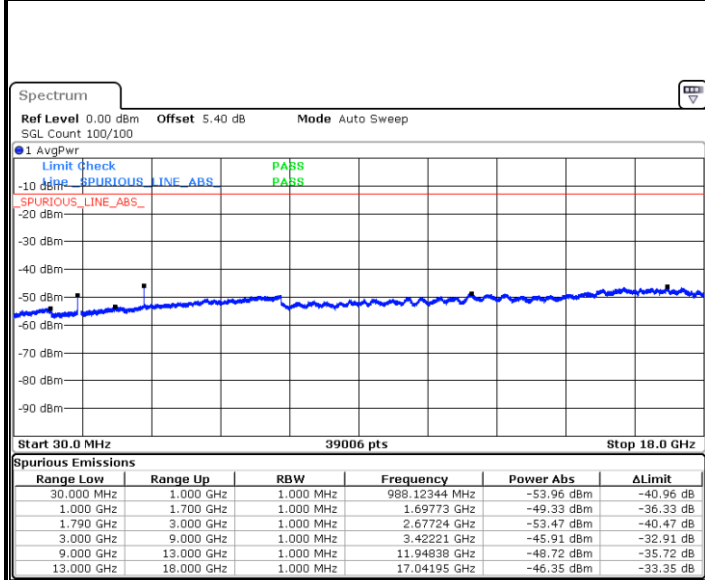


Date: 8 MAR 2020 14:22:02



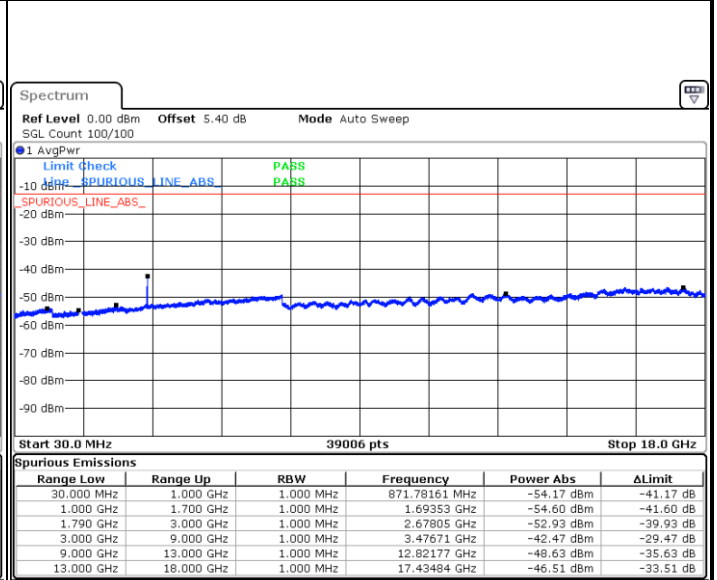
LTE Band 66 / 15MHz

Lowest Channel / 64QAM



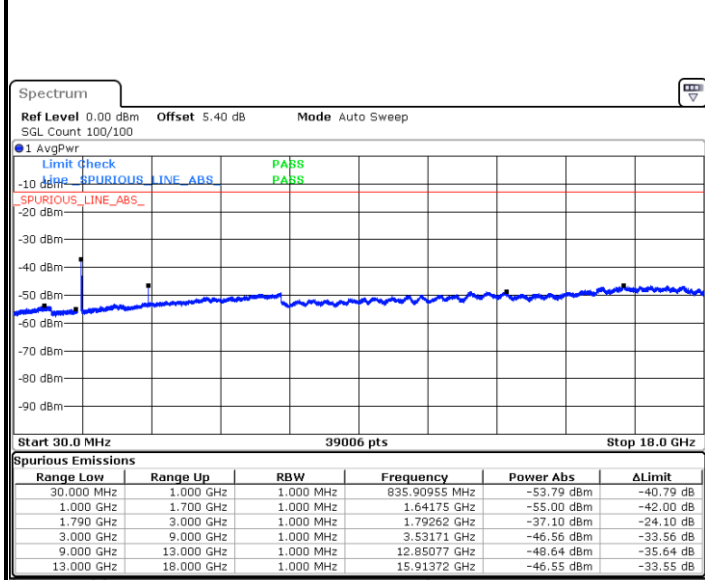
Date: 8 MAR 2020 14:31:07

Middle Channel / 64QAM



Date: 8 MAR 2020 14:32:22

Highest Channel / 64QAM



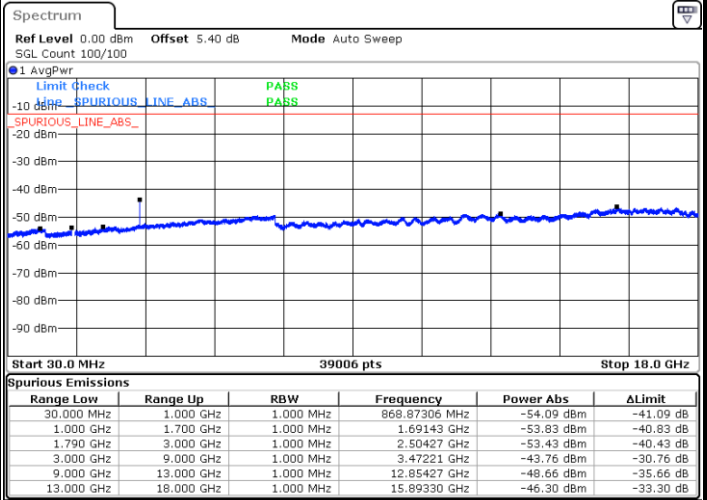
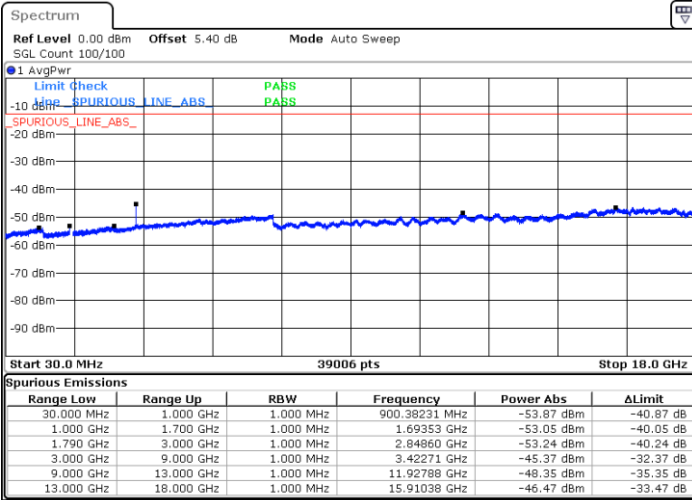
Date: 8 MAR 2020 14:38:28



LTE Band 66 / 20MHz

Lowest Channel / 64QAM

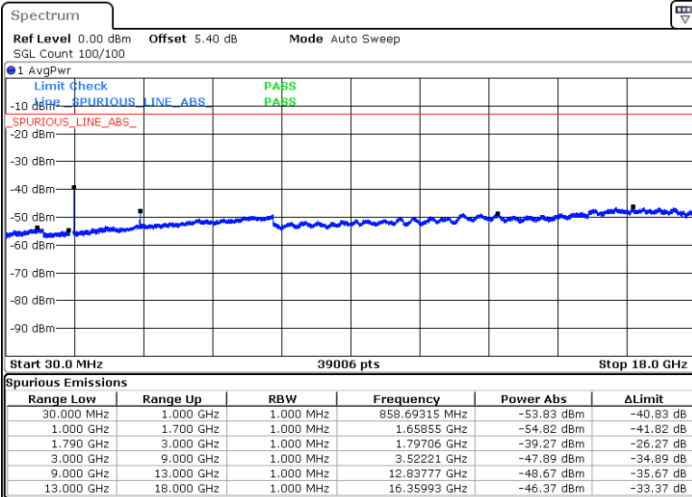
Middle Channel / 64QAM



Date: 8 MAR 2020 14:47:18

Date: 8 MAR 2020 14:48:21

Highest Channel / 64QAM



Date: 8 MAR 2020 14:55:54



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	0.0012	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0049	
0	Normal Voltage	0.0061	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0054	
-30	Normal Voltage	0.0060	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0046	

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 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	-57.10	-13	-44.10	-69.36	2.64	14.90	H
	5613	-54.53	-13	-41.53	-66.39	2.94	14.80	H
	7488	-49.87	-13	-36.87	-59.64	3.39	13.16	H
	3741	-57.14	-13	-44.14	-69.40	2.64	14.90	V
	5613	-54.30	-13	-41.30	-66.16	2.94	14.80	V
	7488	-49.43	-13	-36.43	-59.20	3.39	13.16	V

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

LTE Band 7 / 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	5052	-53.82	-25	-28.82	-64.03	3.03	13.24	H
	7580	-47.56	-25	-22.56	-57.01	3.56	13.01	H
	10100	-45.78	-25	-20.78	-55.30	3.92	13.44	H
	5052	-53.39	-25	-28.39	-63.60	3.03	13.24	V
	7580	-49.24	-25	-24.24	-58.69	3.56	13.01	V
	10100	-46.64	-25	-21.64	-56.16	3.92	13.44	V

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

LTE Band 12 / 20MHz / 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	1406	-68.17	-13	-55.17	-75.14	1.58	10.70	H
	2110	-65.76	-13	-52.76	-74.01	2.102	12.50	H
	2812	-63.27	-13	-50.27	-72.16	2.856	13.90	H
	1406	-68.30	-13	-55.30	-75.27	1.58	10.70	V
	2110	-66.20	-13	-53.20	-74.45	2.10	12.50	V
	2812	-63.44	-13	-50.44	-72.33	2.86	13.90	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	1650	-68.01	-13	-55.01	-74.98	1.58	10.70	H
	2474	-63.38	-13	-50.38	-71.63	2.102	12.50	H
	3300	-63.77	-13	-50.77	-72.66	2.856	13.90	H
	1650	-68.07	-13	-55.07	-75.04	1.58	10.70	V
	2474	-63.42	-13	-50.42	-71.67	2.10	12.50	V
	3300	-63.78	-13	-50.78	-72.67	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	-57.16	-25	-32.16	-67.37	3.03	13.24	H
	7752	-43.51	-25	-18.51	-52.96	3.56	13.01	H
	10340	-60.36	-25	-35.36	-69.88	3.92	13.44	H
	5168	-62.01	-25	-37.01	-72.22	3.03	13.24	V
	7752	-45.83	-25	-20.83	-55.28	3.56	13.01	V
	10340	-57.30	-25	-32.30	-66.82	3.92	13.44	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	-61.40	-13	-48.40	-72.14	2.604	13.34	H
	5208	-56.08	-13	-43.08	-66.59	3.011	13.52	H
	6948	-52.00	-13	-39.00	-62.20	3.271	13.47	H
	3471	-61.53	-13	-48.53	-72.27	2.604	13.34	V
	5208	-56.22	-13	-43.22	-66.73	3.011	13.52	V
	6948	-52.00	-13	-39.00	-62.20	3.271	13.47	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 FG9O0912B and FG9O0912C which is issued separately.