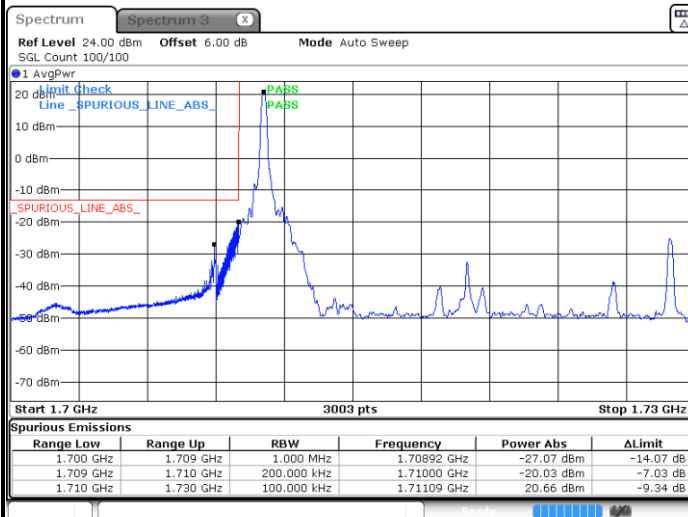


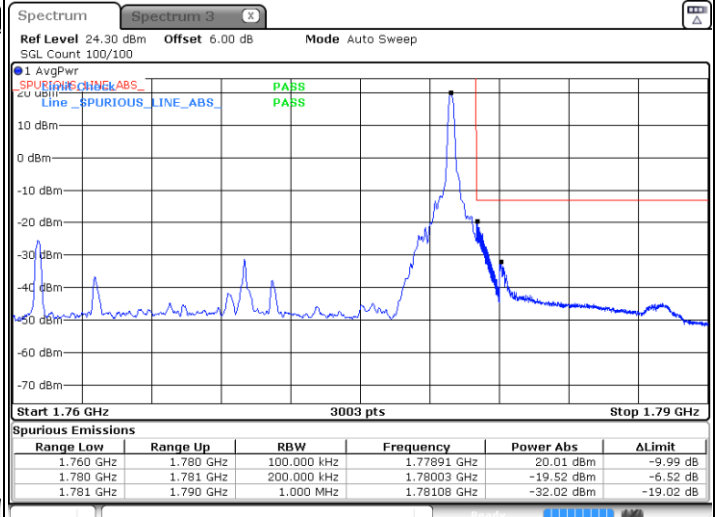


LTE Band 66 / 20MHz / QPSK

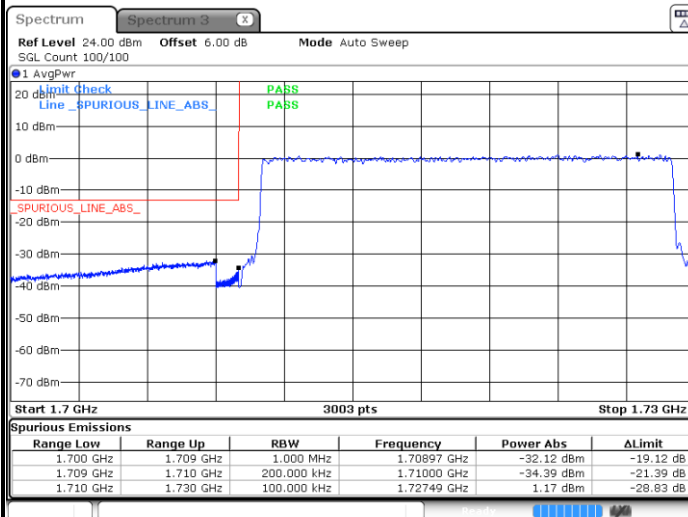
Lowest Band Edge / 1 RB



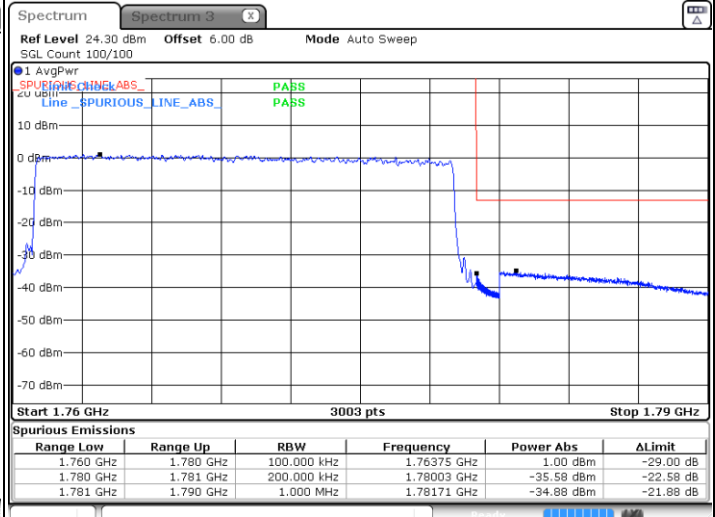
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



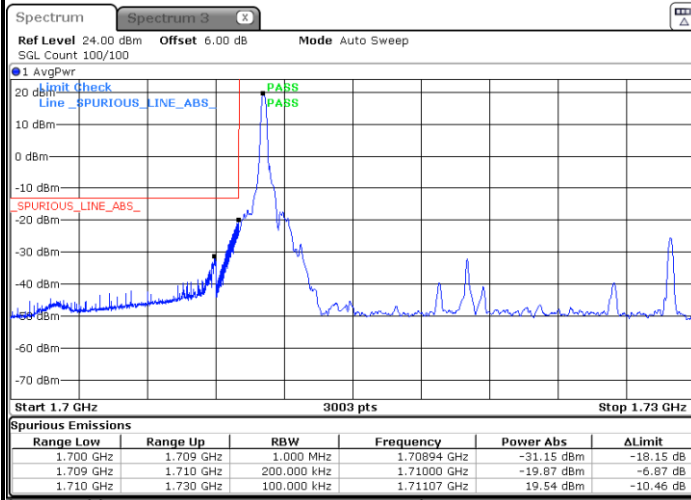
Highest Band Edge / Full RB



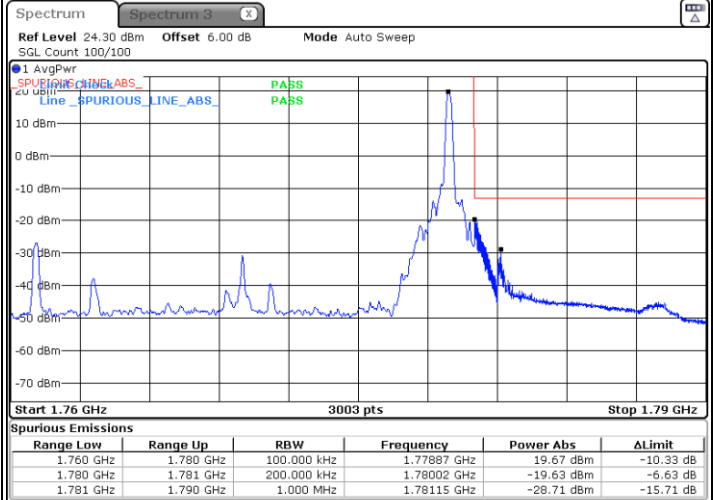


LTE Band 66 / 20MHz / 16QAM

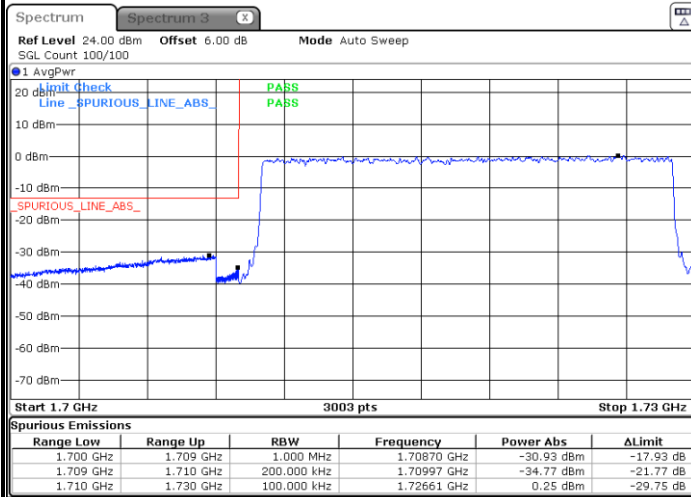
Lowest Band Edge / 1 RB



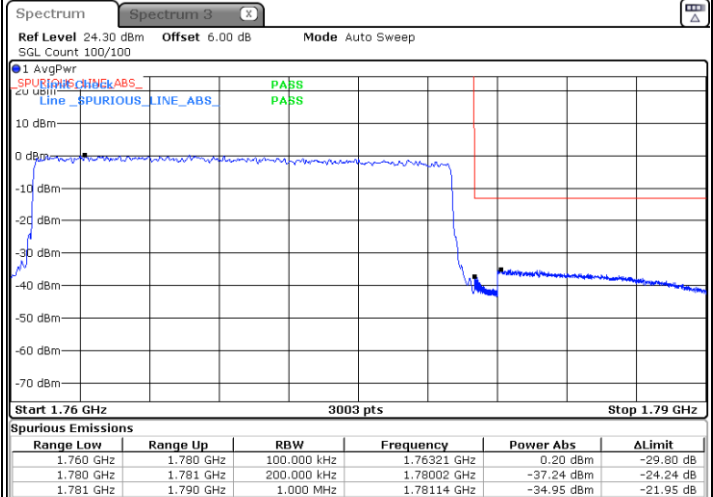
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



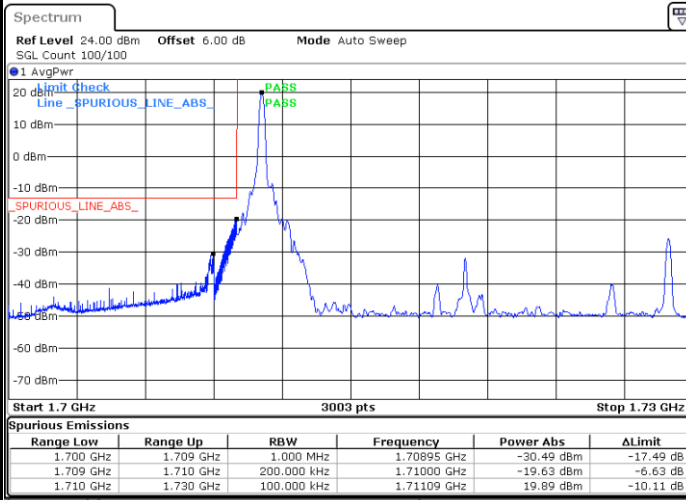
Highest Band Edge / Full RB



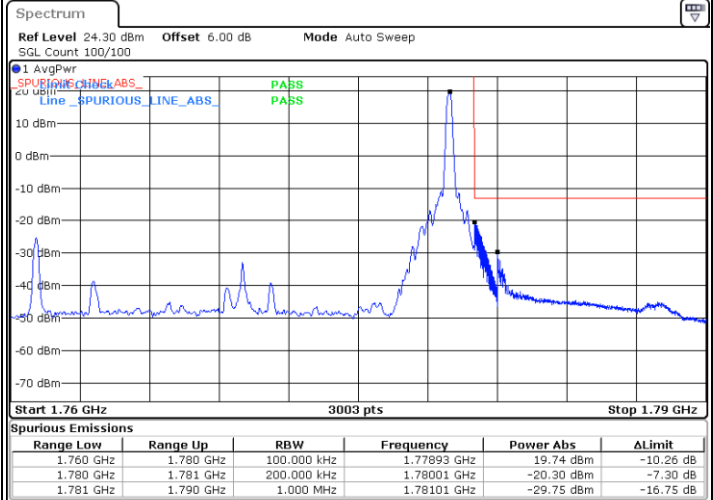


LTE Band 66 / 20MHz / 64QAM

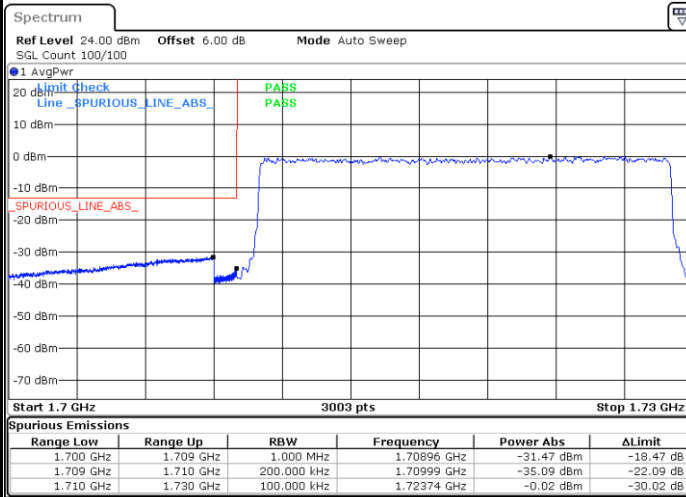
Lowest Band Edge / 1 RB



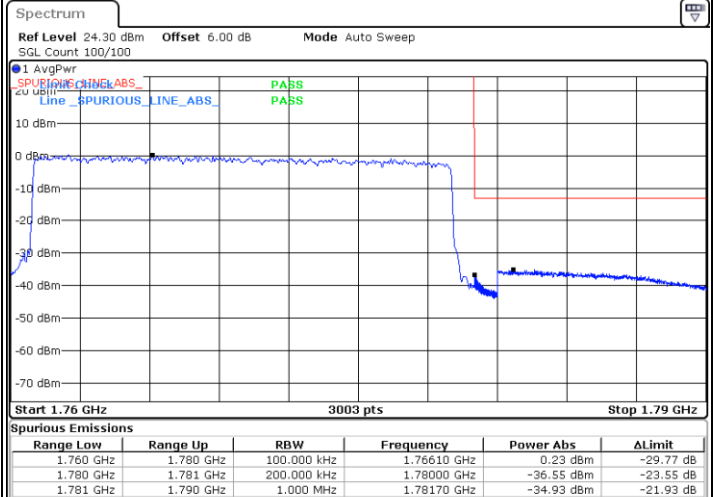
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

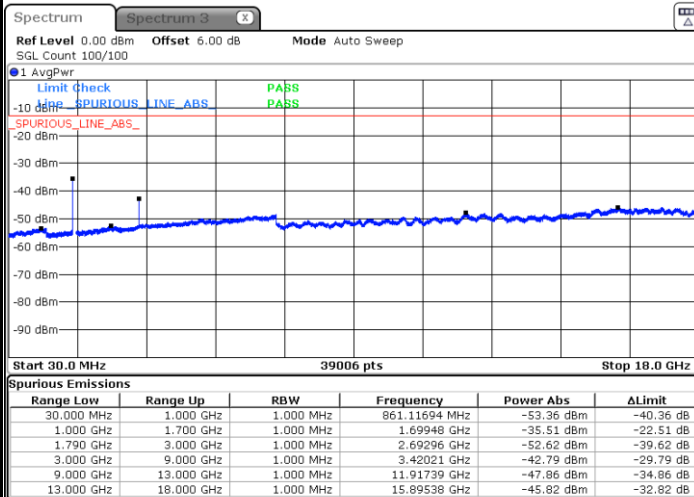




Conducted Spurious Emission

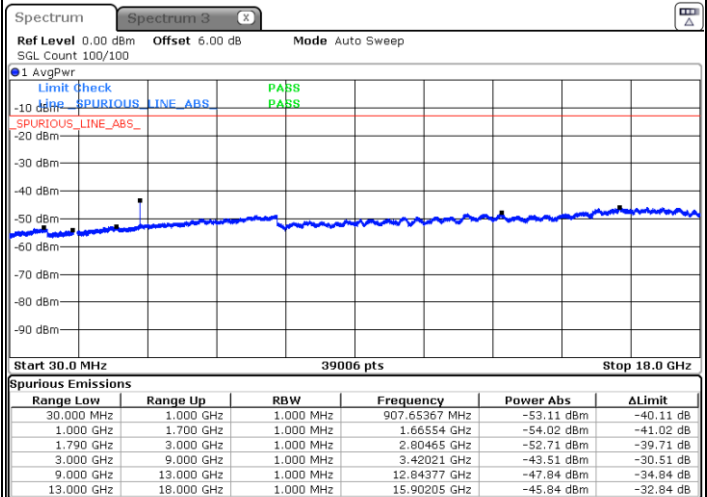
LTE Band 66 / 1.4MHz

Lowest Channel / QPSK



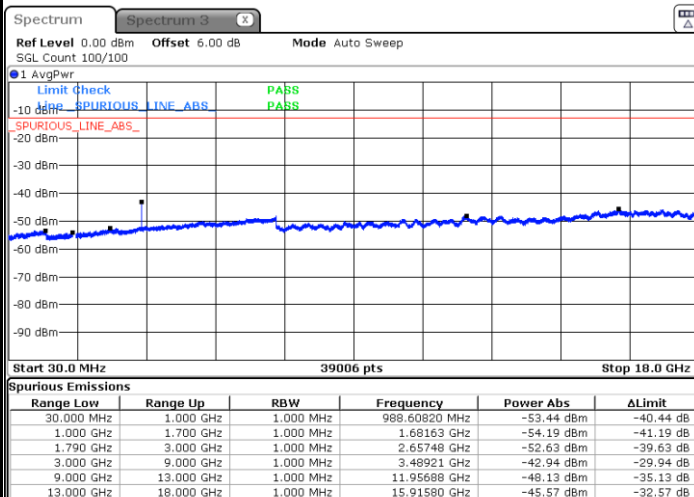
Date: 10.FEB.2020 11:50:13

Lowest Channel / 16QAM



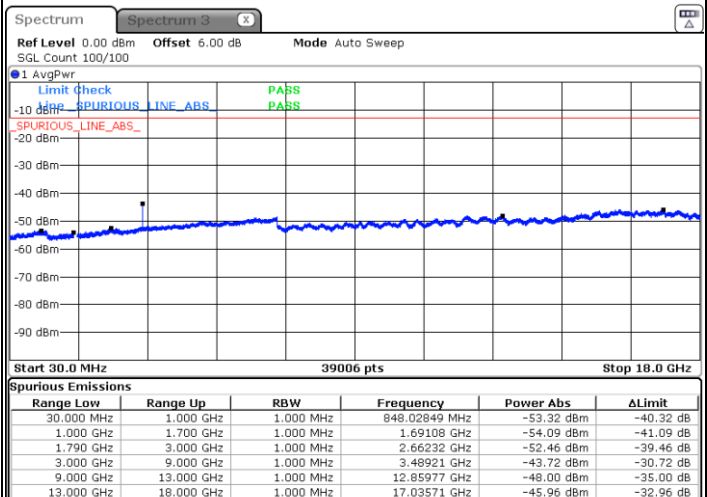
Date: 10.FEB.2020 11:53:15

Middle Channel / QPSK



Date: 10.FEB.2020 11:54:48

Middle Channel / 16QAM

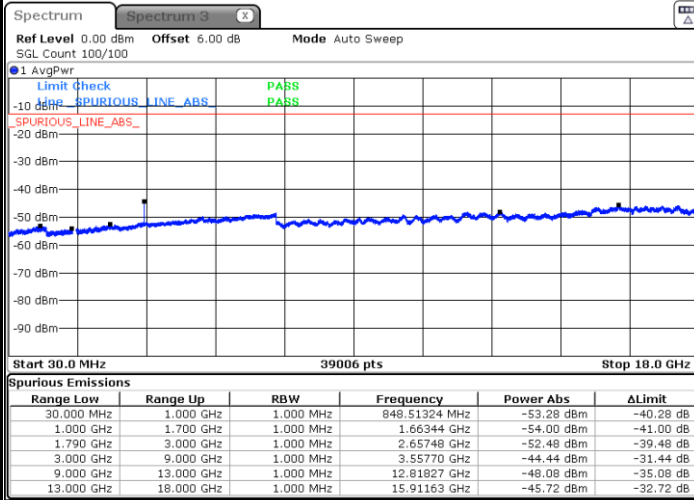


Date: 10.FEB.2020 11:54:08



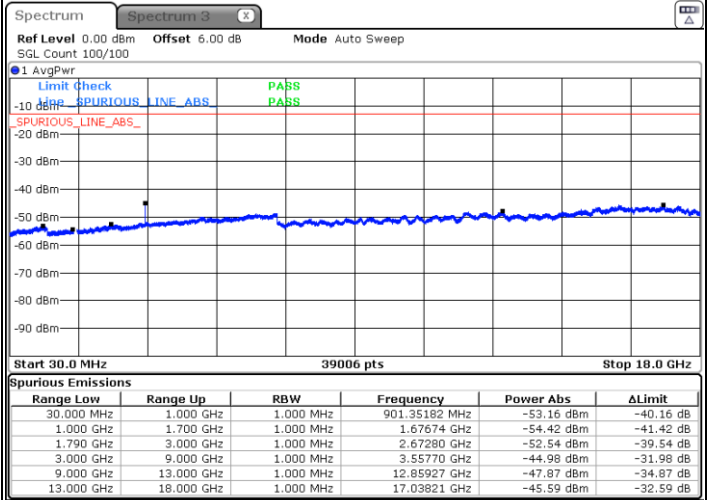
LTE Band 66 / 1.4MHz

Highest Channel / QPSK



Date: 10 FEB 2020 12:03:27

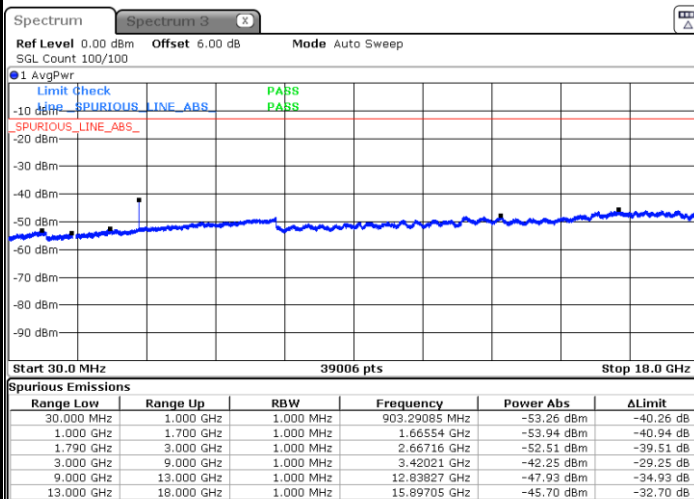
Highest Channel / 16QAM



Date: 10 FEB 2020 12:02:48

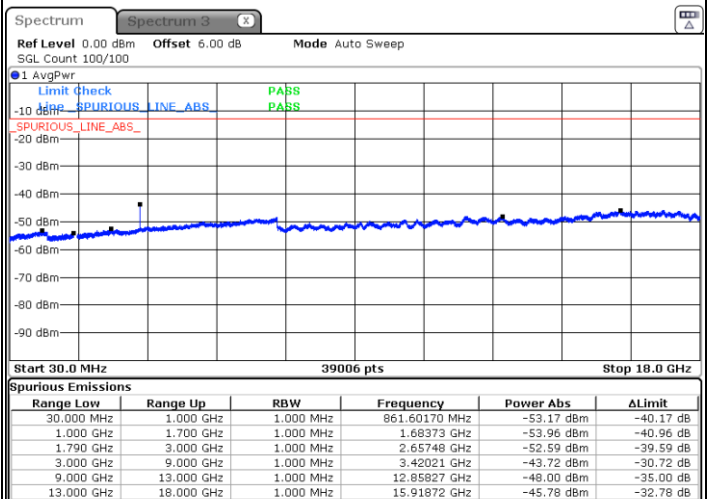
LTE Band 66 / 3MHz

Lowest Channel / QPSK



Date: 10 FEB 2020 12:09:32

Lowest Channel / 16QAM

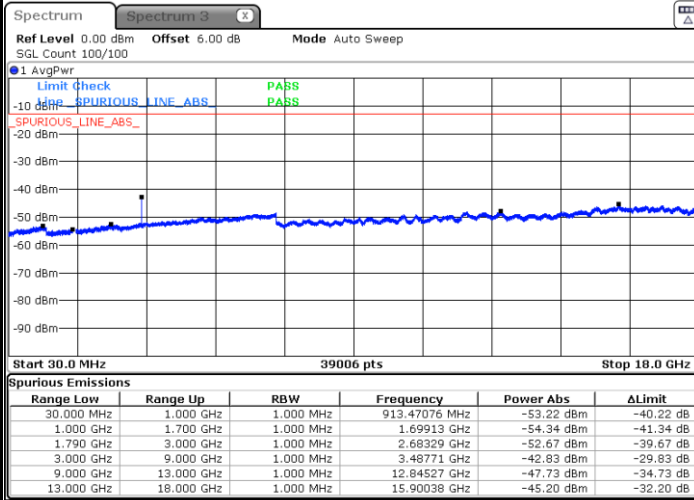


Date: 10 FEB 2020 12:07:28



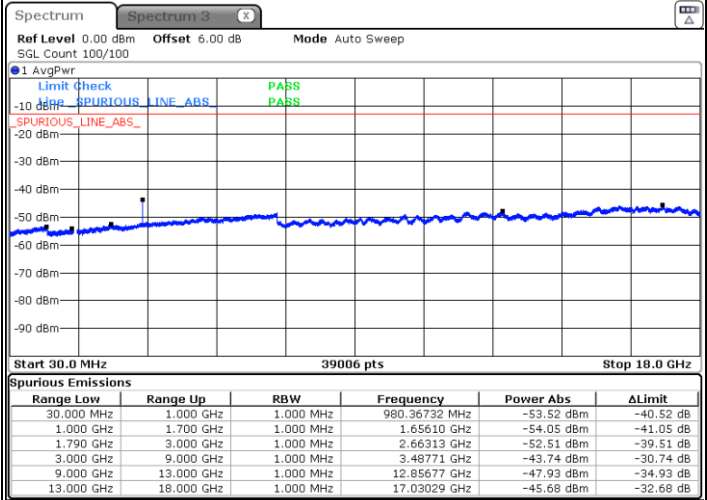
LTE Band 66 / 3MHz

Middle Channel / QPSK



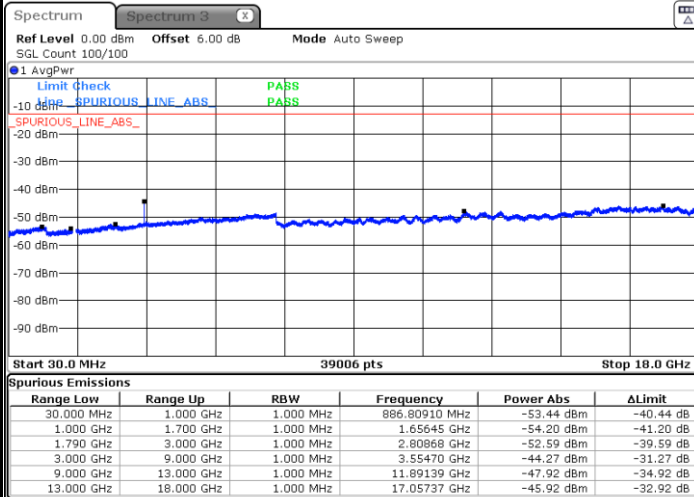
Date: 10.FEB.2020 12:10:29

Middle Channel / 16QAM



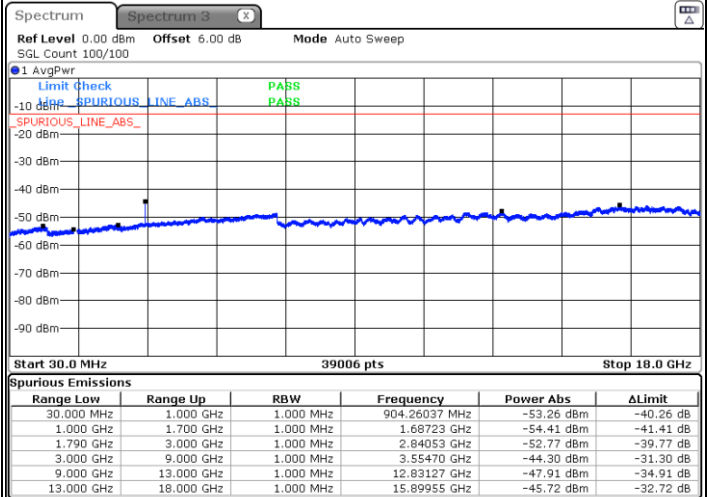
Date: 10.FEB.2020 12:11:07

Highest Channel / QPSK



Date: 10.FEB.2020 12:15:29

Highest Channel / 16QAM

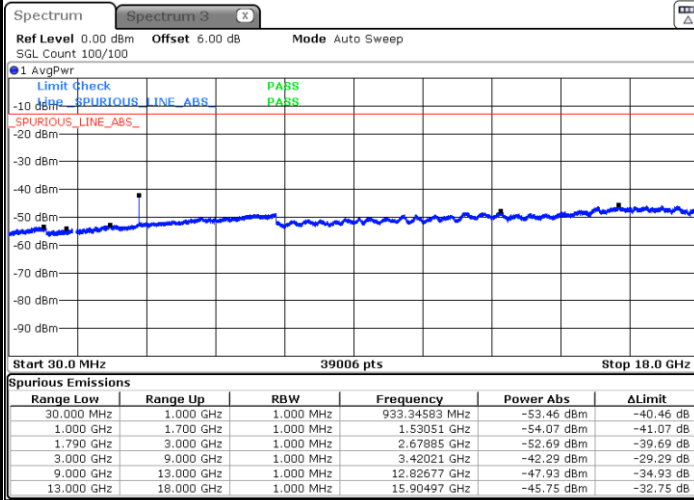


Date: 10.FEB.2020 12:14:44



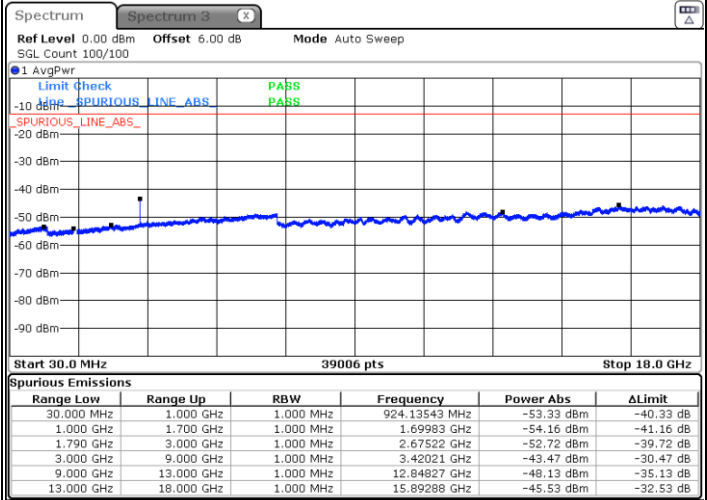
LTE Band 66 / 5MHz

Lowest Channel / QPSK



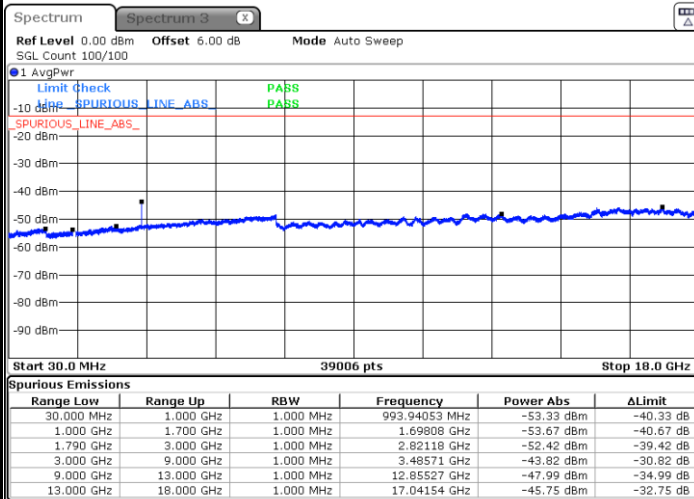
Date: 10.FEB.2020 12:38:19

Lowest Channel / 16QAM



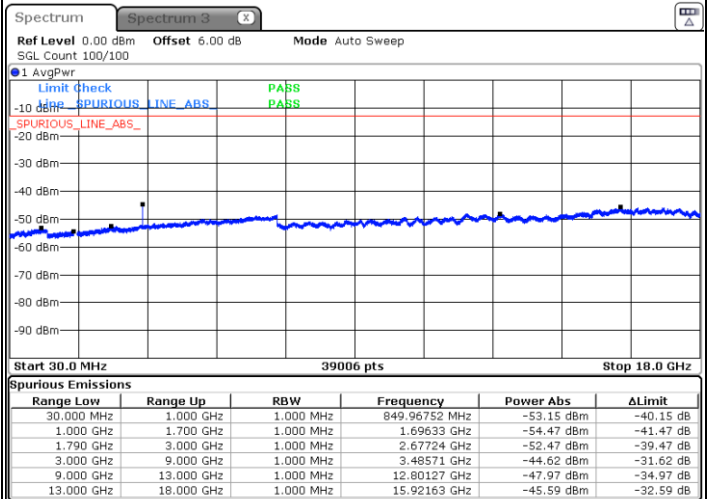
Date: 10.FEB.2020 12:36:44

Middle Channel / QPSK



Date: 10.FEB.2020 12:39:09

Middle Channel / 16QAM

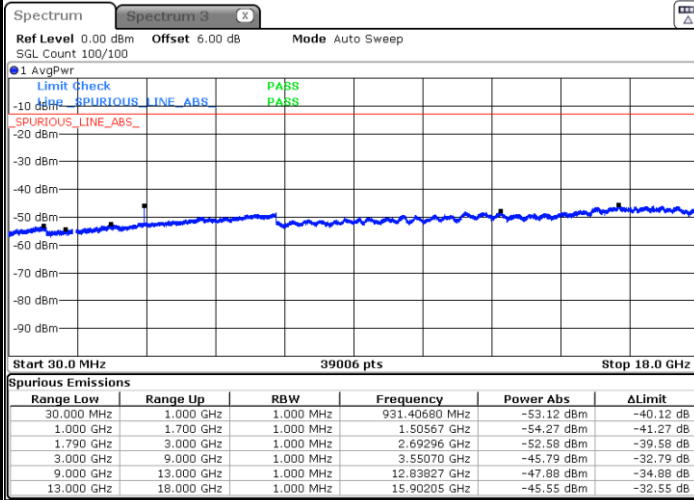


Date: 10.FEB.2020 12:39:54



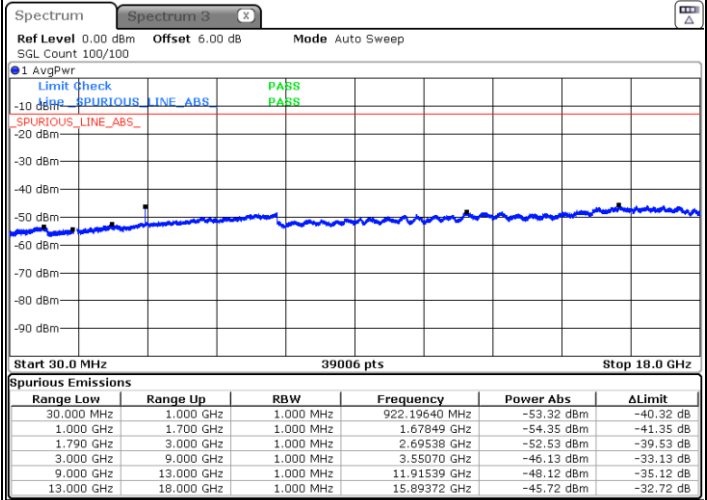
LTE Band 66 / 5MHz

Highest Channel / QPSK



Date: 10 FEB 2020 12:43:45

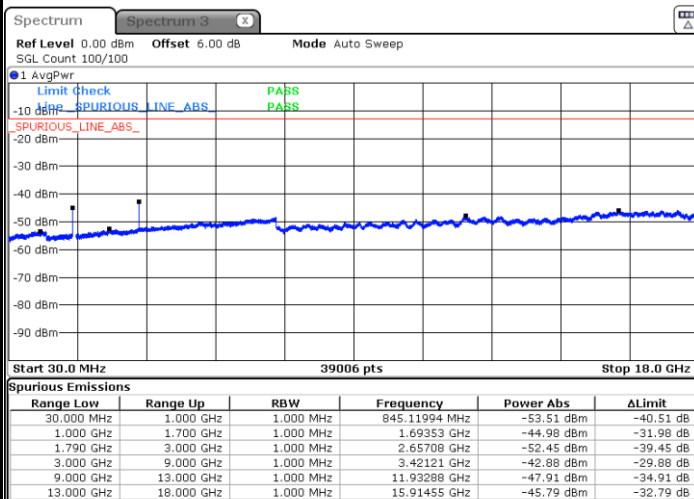
Highest Channel / 16QAM



Date: 10 FEB 2020 12:43:06

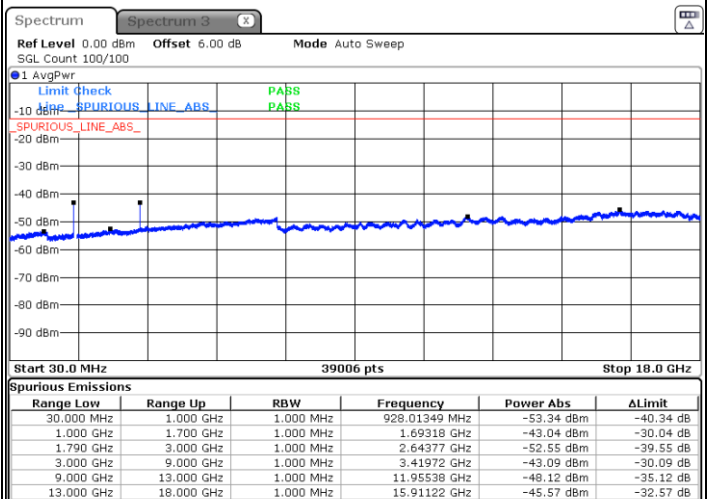
LTE Band 66 / 10MHz

Lowest Channel / QPSK



Date: 10 FEB 2020 13:44:08

Lowest Channel / 16QAM

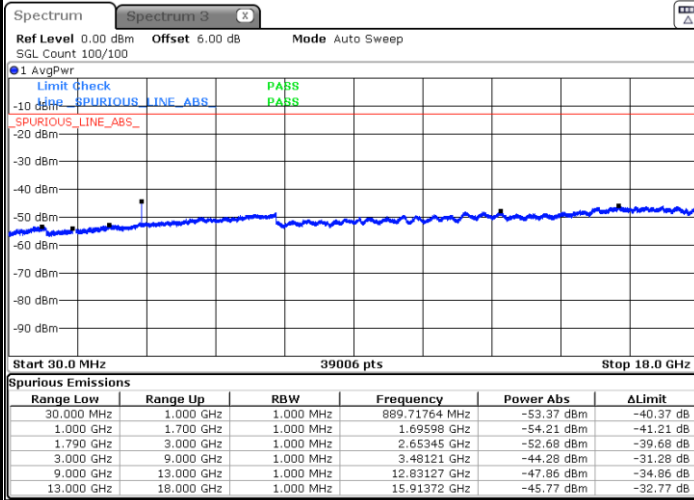


Date: 10 FEB 2020 13:43:21



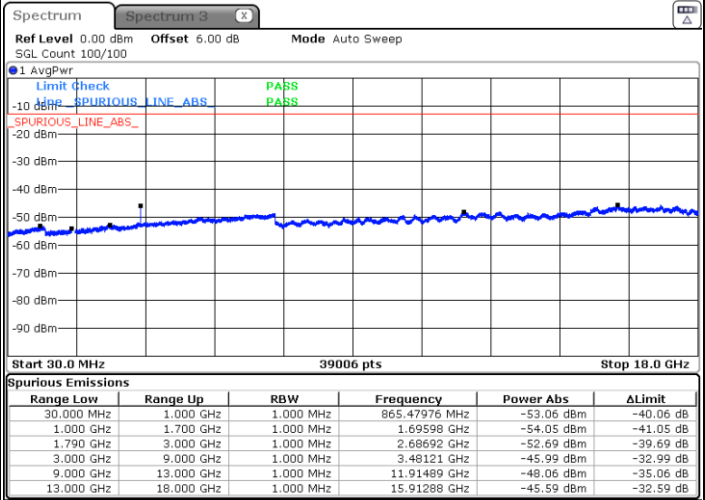
LTE Band 66 / 10MHz

Middle Channel / QPSK



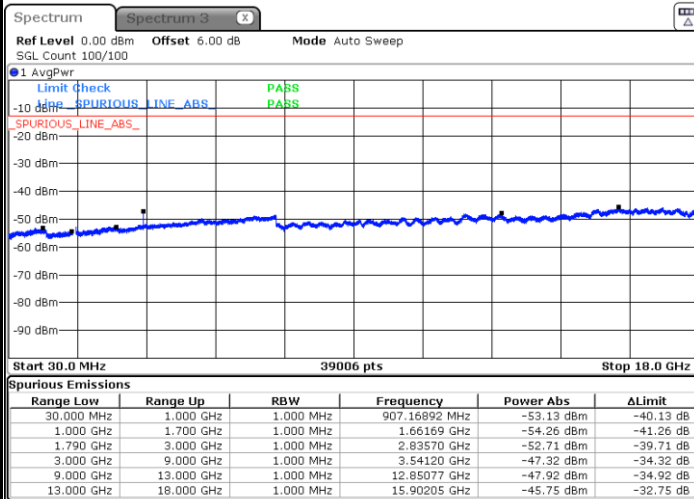
Date: 10.FEB.2020 13:45:01

Middle Channel / 16QAM



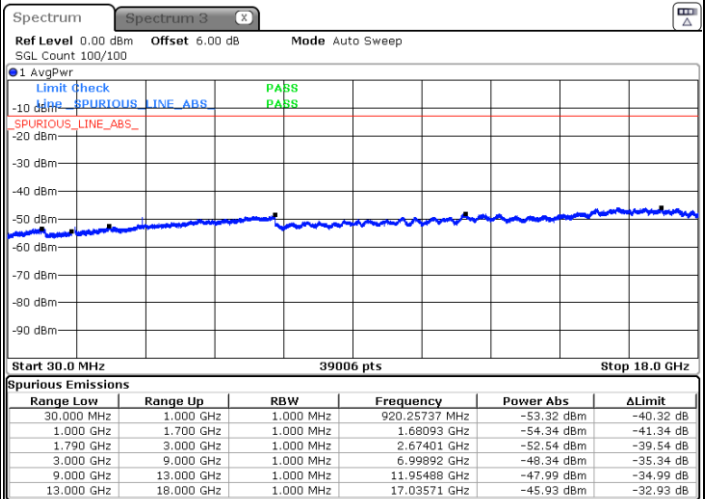
Date: 10.FEB.2020 13:45:43

Highest Channel / QPSK



Date: 10.FEB.2020 13:49:56

Highest Channel / 16QAM

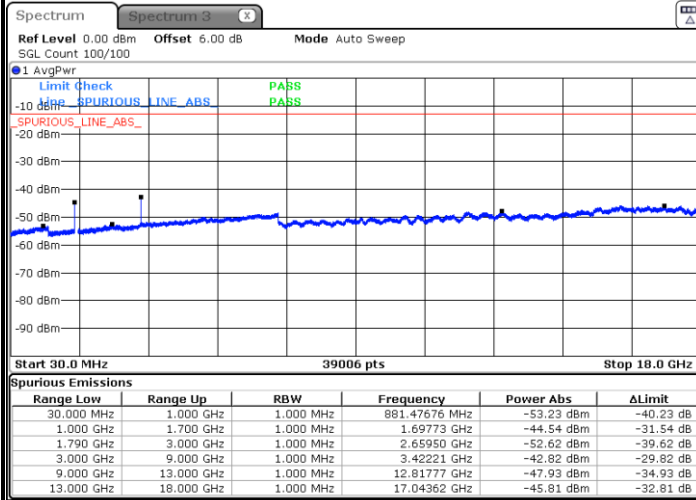


Date: 10.FEB.2020 13:49:19



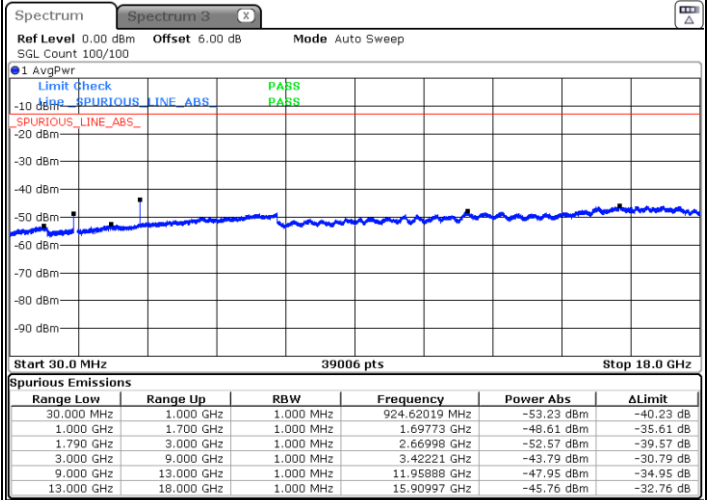
LTE Band 66 / 15MHz

Lowest Channel / QPSK



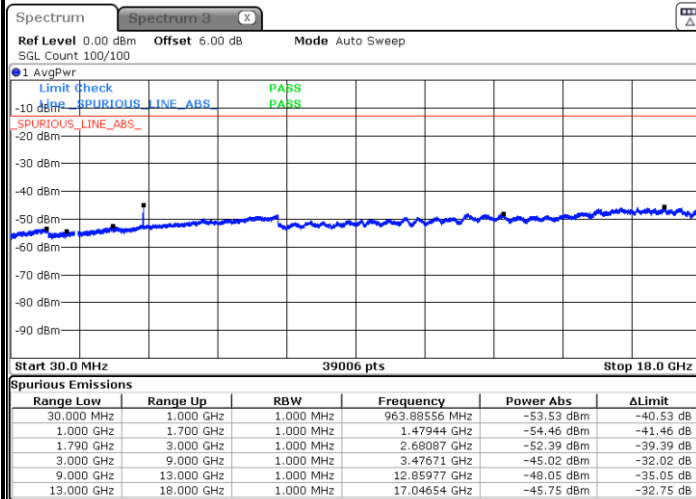
Date: 10.FEB.2020 14:24:25

Lowest Channel / 16QAM



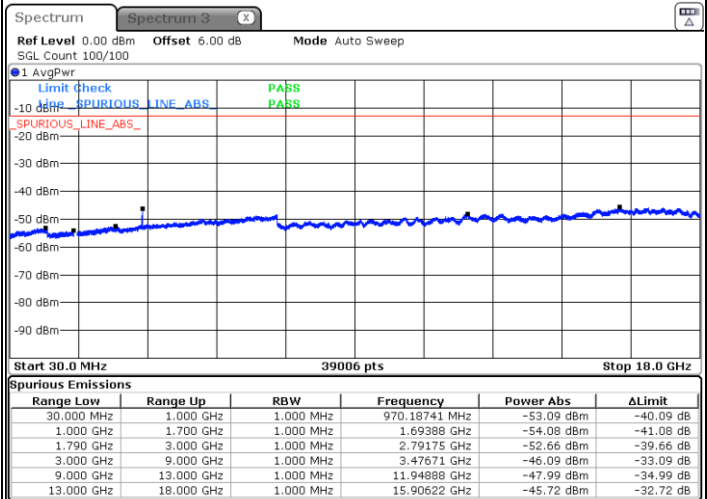
Date: 10.FEB.2020 14:23:34

Middle Channel / QPSK



Date: 10.FEB.2020 14:25:14

Middle Channel / 16QAM

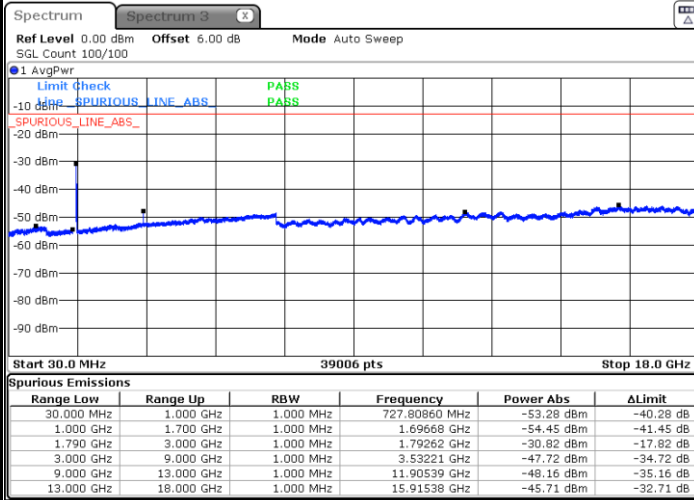


Date: 10.FEB.2020 14:25:55



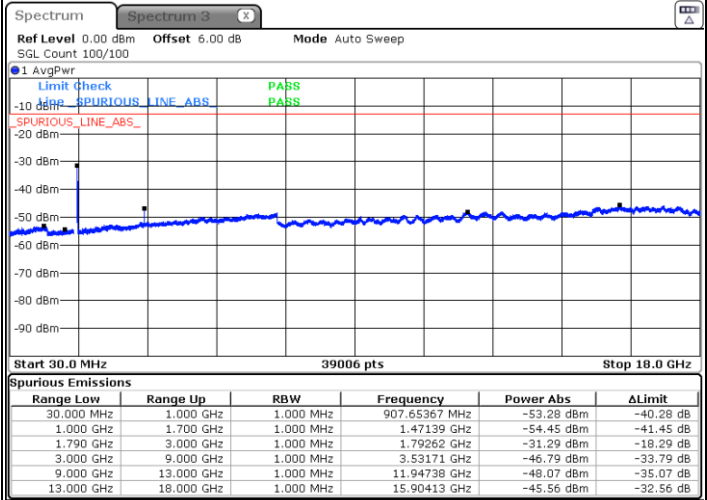
LTE Band 66 / 15MHz

Highest Channel / QPSK



Date: 10 FEB 2020 14:29:14

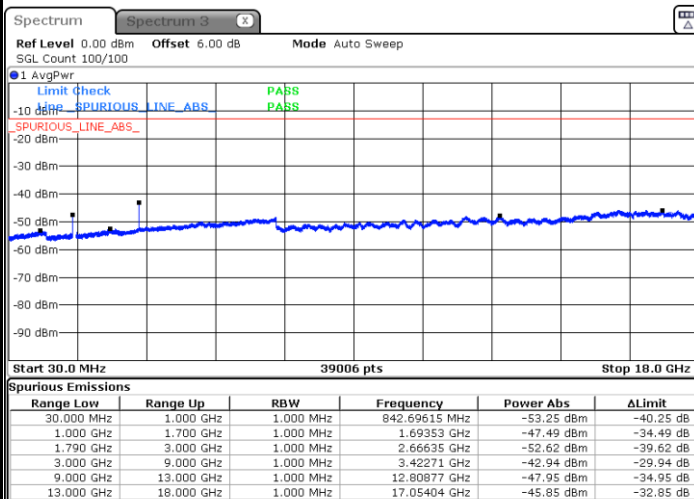
Highest Channel / 16QAM



Date: 10 FEB 2020 14:28:35

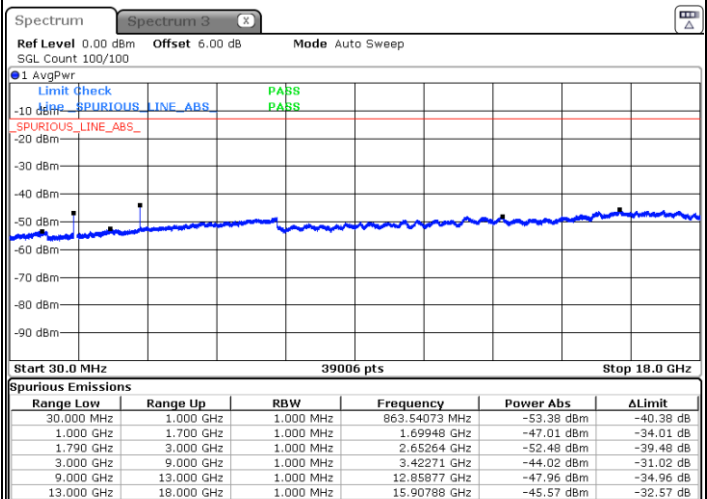
LTE Band 66 / 20MHz

Lowest Channel / QPSK



Date: 10 FEB 2020 14:49:25

Lowest Channel / 16QAM

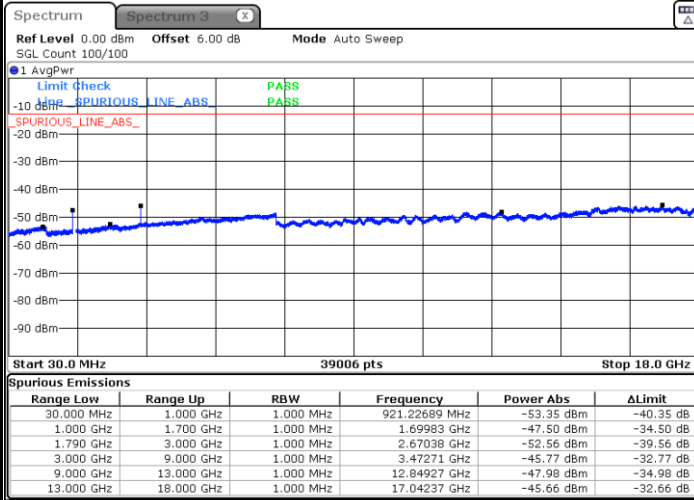


Date: 10 FEB 2020 14:32:36



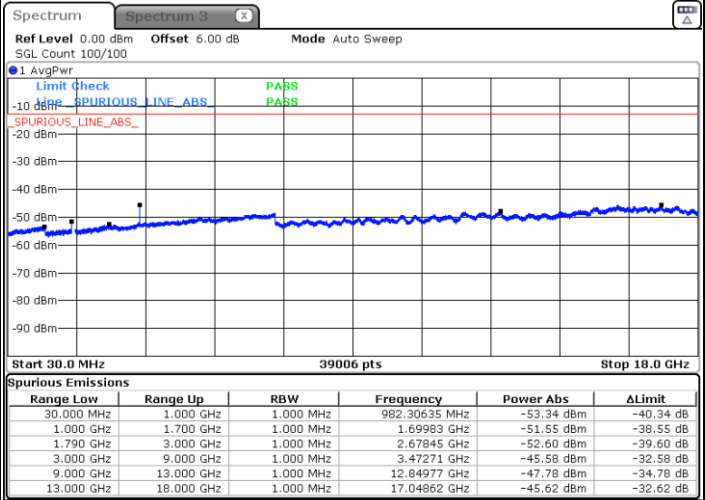
LTE Band 66 / 20MHz

Middle Channel / QPSK



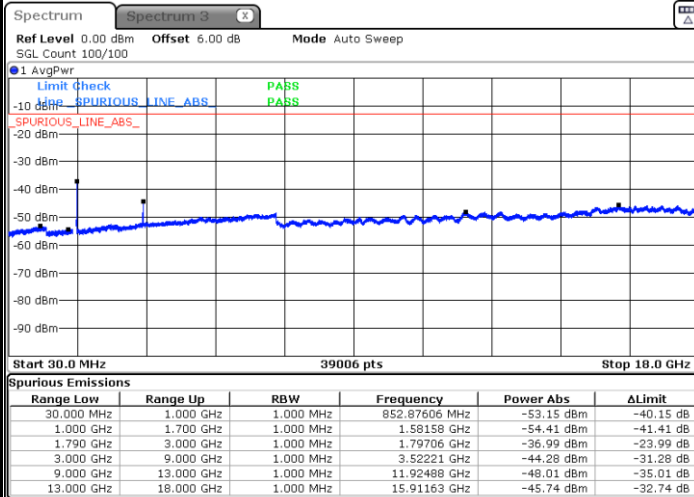
Date: 10.FEB.2020 14:43:44

Middle Channel / 16QAM



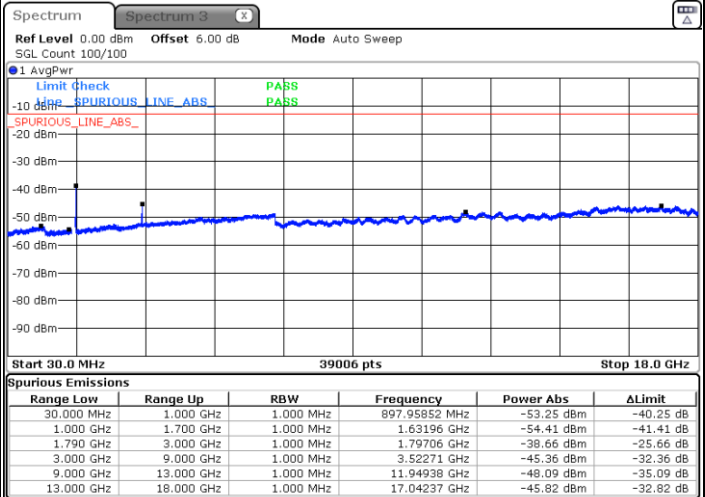
Date: 10.FEB.2020 14:42:15

Highest Channel / QPSK



Date: 10.FEB.2020 14:46:14

Highest Channel / 16QAM

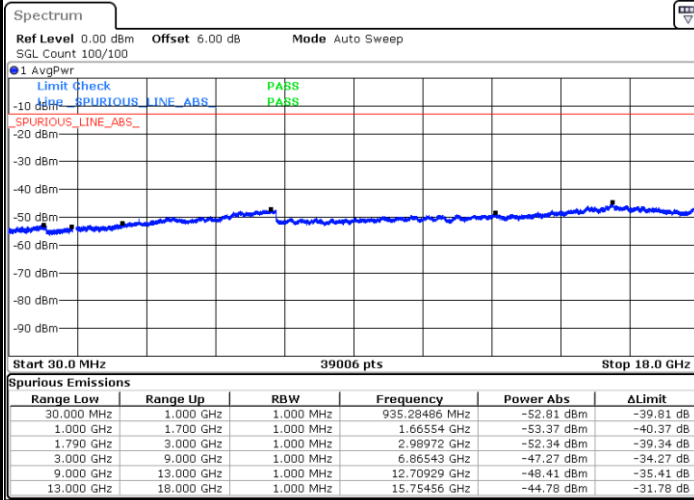


Date: 10.FEB.2020 14:45:28



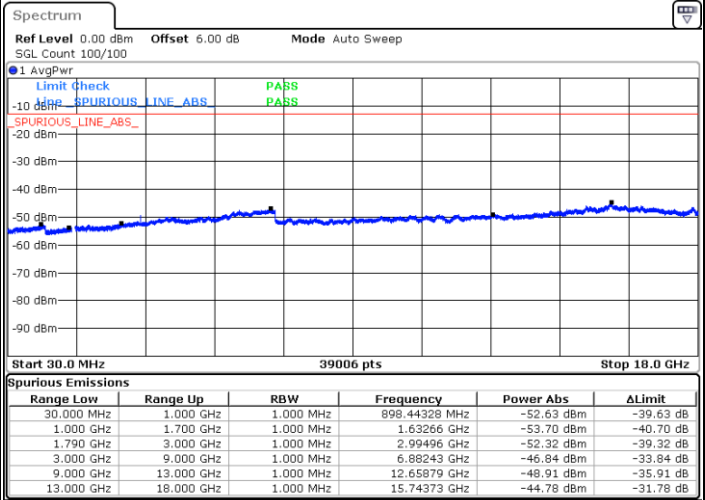
LTE Band 66 / 1.4MHz

Lowest Channel / 64QAM



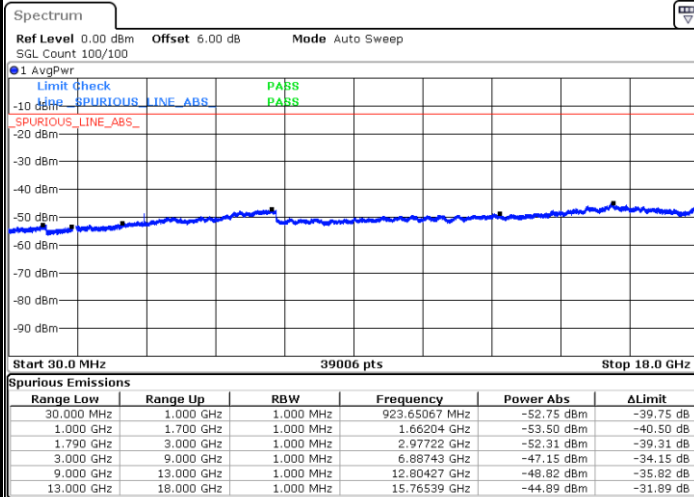
Date: 15 FEB 2020 03:33:02

Middle Channel / 64QAM



Date: 15 FEB 2020 03:35:20

Highest Channel / 64QAM

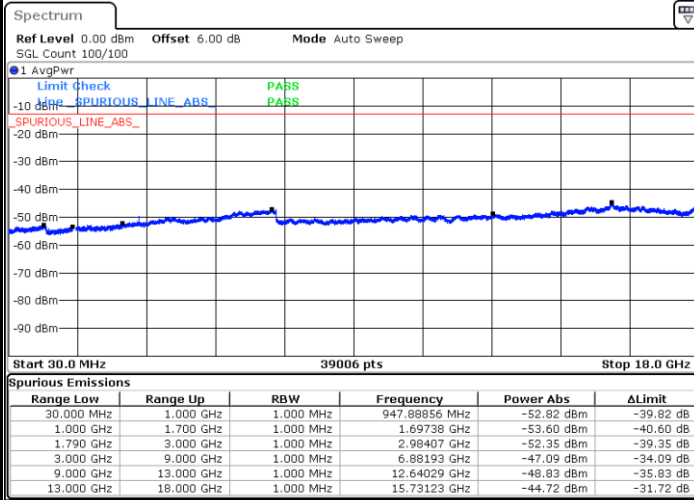


Date: 15 FEB 2020 03:38:20



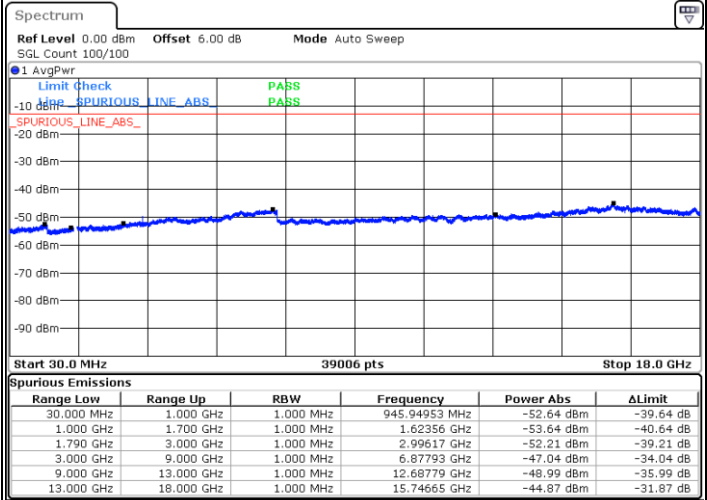
LTE Band 66 / 3MHz

Lowest Channel / 64QAM



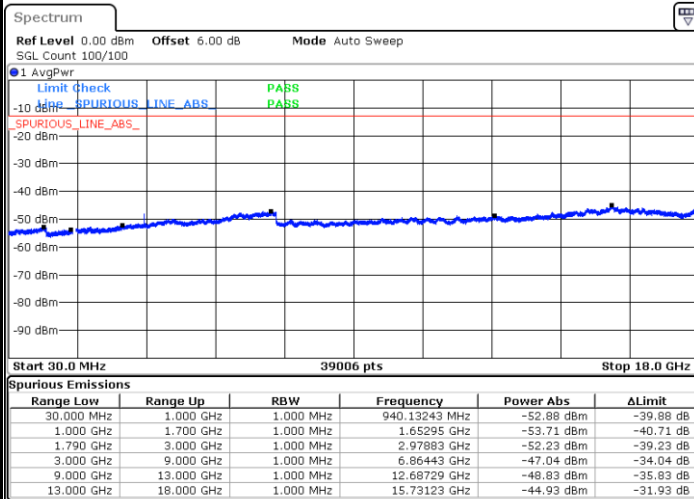
Date: 15 FEB 2020 03:43:30

Middle Channel / 64QAM



Date: 15 FEB 2020 03:44:43

Highest Channel / 64QAM

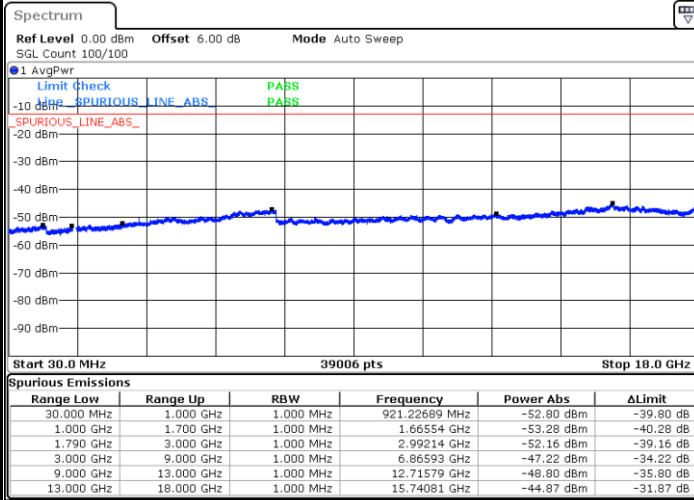


Date: 15 FEB 2020 03:47:47



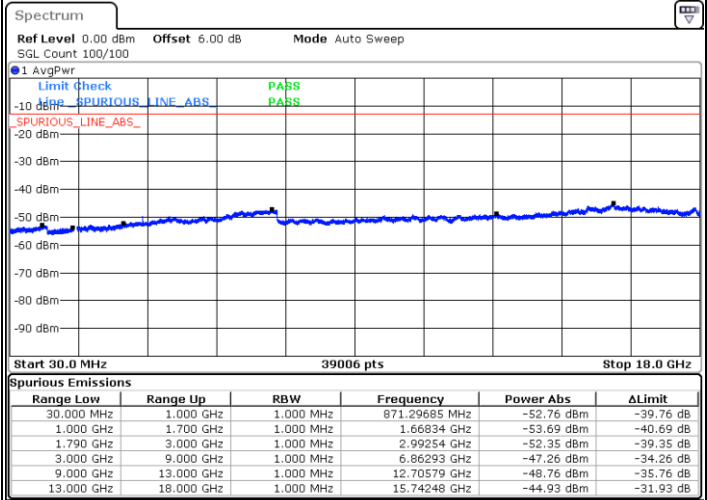
LTE Band 66 / 5MHz

Lowest Channel / 64QAM



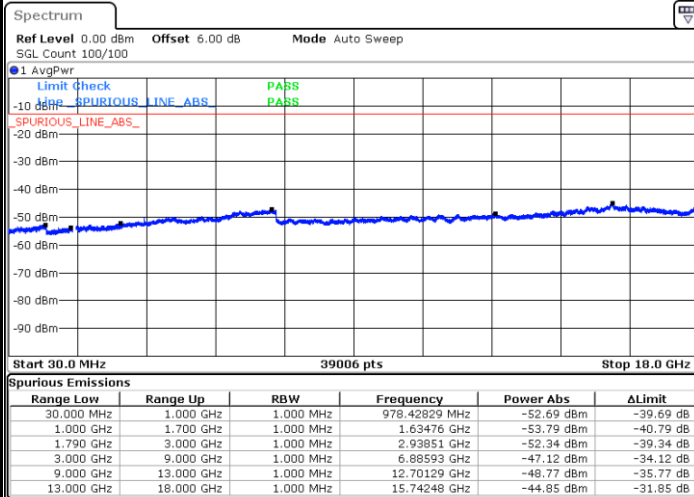
Date: 15 FEB 2020 03:50:49

Middle Channel / 64QAM



Date: 15 FEB 2020 03:51:37

Highest Channel / 64QAM

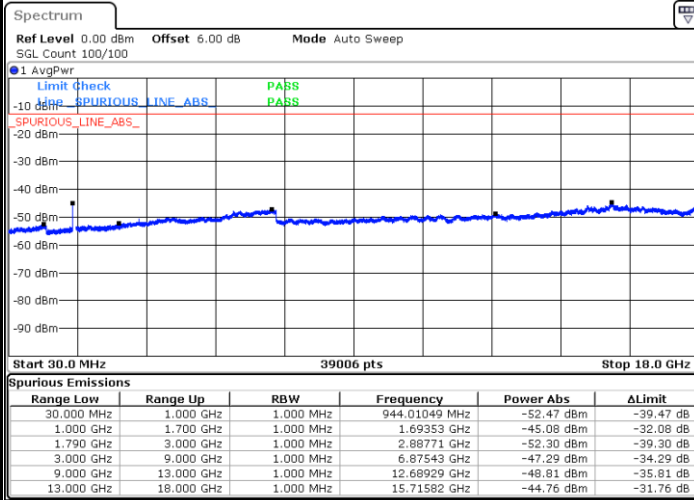


Date: 15 FEB 2020 03:53:58



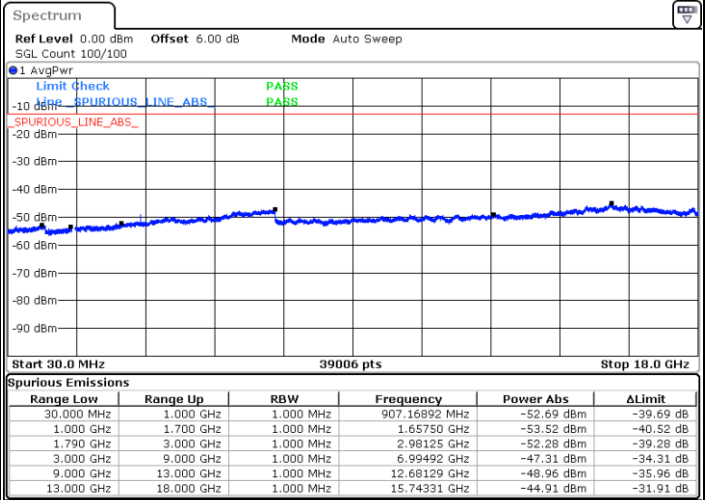
LTE Band 66 / 10MHz

Lowest Channel / 64QAM



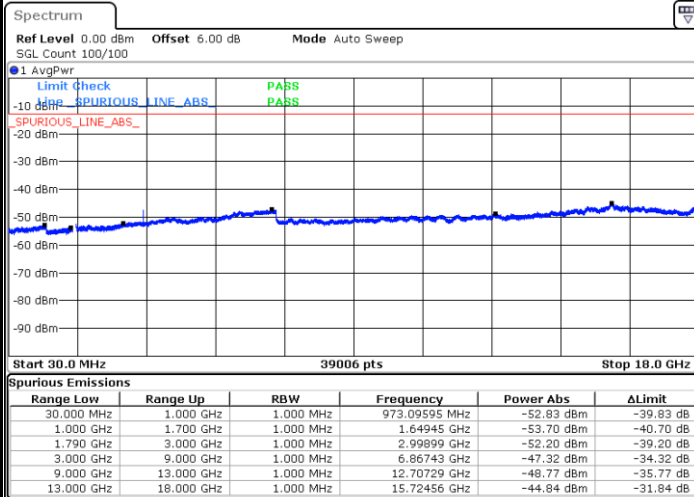
Date: 15.FEB.2020 03:55:34

Middle Channel / 64QAM



Date: 15.FEB.2020 03:56:20

Highest Channel / 64QAM

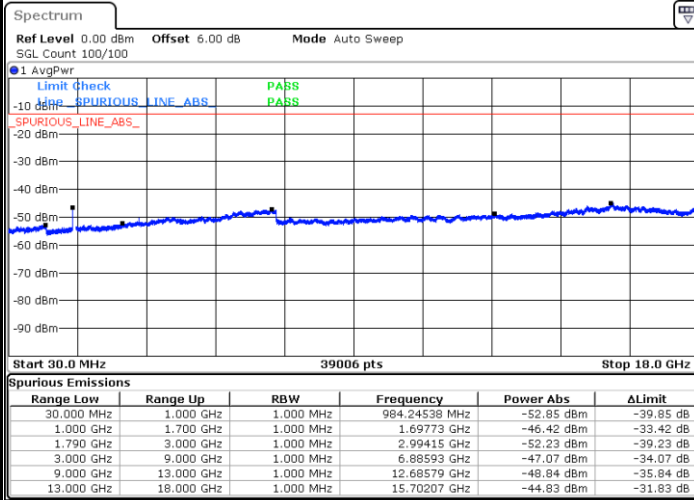


Date: 15.FEB.2020 03:58:32



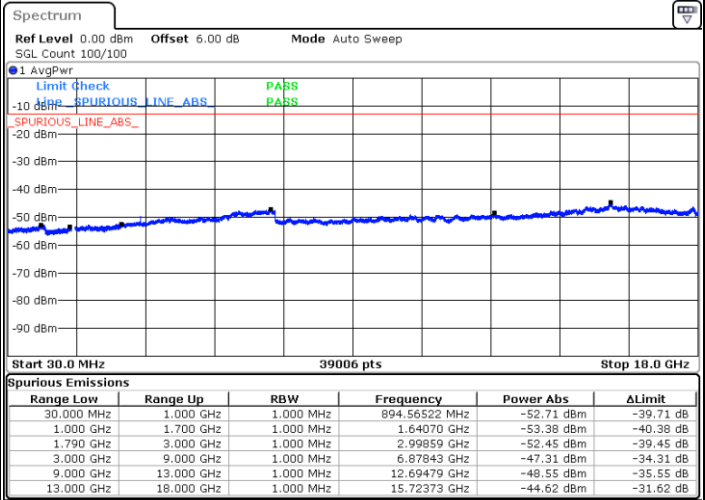
LTE Band 66 / 15MHz

Lowest Channel / 64QAM



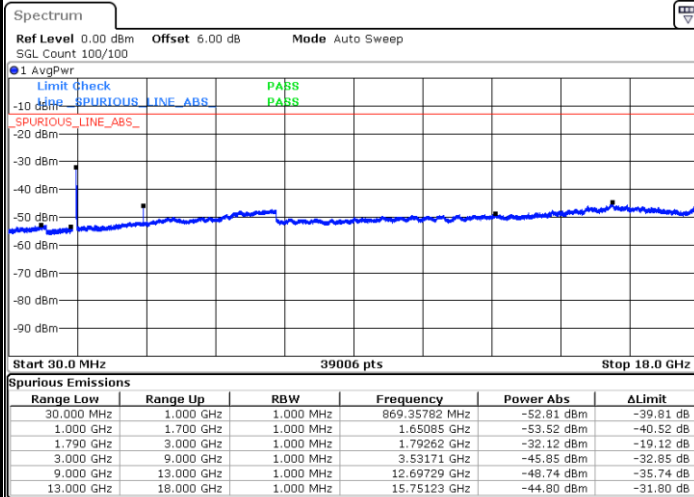
Date: 15.FEB.2020 04:00:13

Middle Channel / 64QAM



Date: 15.FEB.2020 04:01:01

Highest Channel / 64QAM

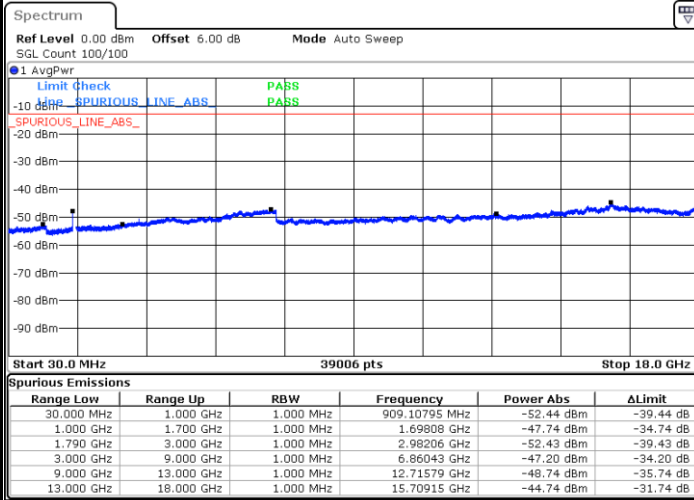


Date: 15.FEB.2020 04:03:37



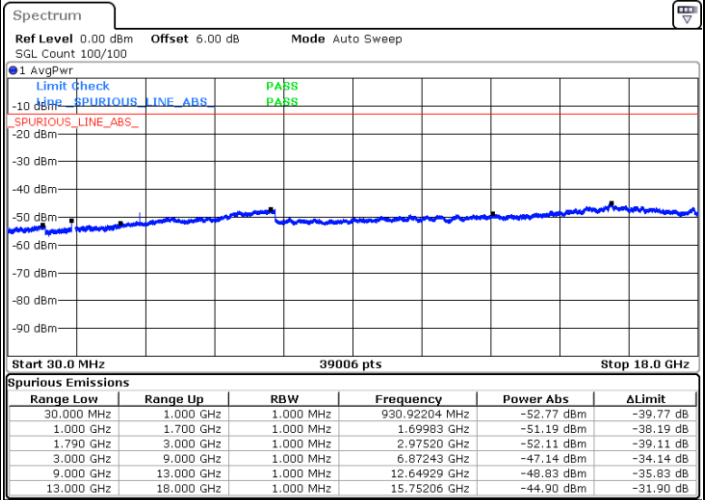
LTE Band 66 / 20MHz

Lowest Channel / 64QAM



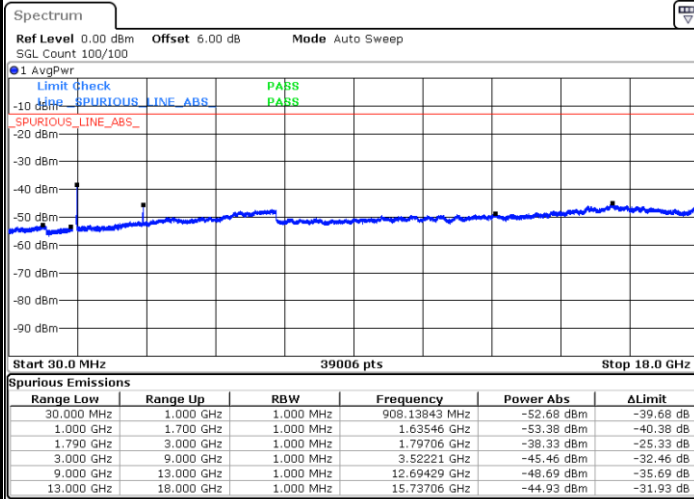
Date: 15.FEB.2020 04:05:31

Middle Channel / 64QAM



Date: 15.FEB.2020 04:06:15

Highest Channel / 64QAM



Date: 15.FEB.2020 04:08:13

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	0.0025	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.7 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	-46.62	-13	-33.62	-58.88	2.641	14.90	H
	5613.27	-55.30	-13	-42.30	-67.16	2.94	14.80	H
	7484.36	-50.61	-13	-37.61	-60.38	3.39	13.16	H
	3741	-57.34	-13	-44.34	-69.60	2.64	14.90	V
	5613.27	-55.37	-13	-42.37	-67.23	2.94	14.80	V
	7484.36	-49.81	-13	-36.81	-59.58	3.39	13.16	V

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

LTE Band 5 / 10MHz / 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	1664	-68.07	-13	-55.07	-75.04	1.58	10.70	H
	2496.27	-63.19	-13	-50.19	-71.44	2.102	12.50	H
	3330	-63.74	-13	-50.74	-72.63	2.856	13.90	H
	1664	-68.12	-13	-55.12	-75.09	1.58	10.70	V
	2496.27	-63.38	-13	-50.38	-71.63	2.10	12.50	V
	3330	-63.55	-13	-50.55	-72.44	2.86	13.90	V

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

LTE Band 12 / 10MHz / 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	-66.30	-13	-53.30	-73.27	1.58	10.70	H
	2109.27	-65.14	-13	-52.14	-73.39	2.102	12.50	H
	2812.36	-63.19	-13	-50.19	-72.08	2.856	13.90	H
	1406	-67.66	-13	-54.66	-74.63	1.58	10.70	V
	2109.27	-65.46	-13	-52.46	-73.71	2.10	12.50	V
	2812	-63.29	-13	-50.29	-72.18	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	-53.02	-13	-40.02	-63.76	2.604	13.34	H
	5208	-52.17	-13	-39.17	-62.68	3.011	13.52	H
	6944.36	-52.43	-13	-39.43	-62.63	3.271	13.47	H
	3471	-60.87	-13	-47.87	-71.61	2.604	13.34	V
	5208.27	-56.27	-13	-43.27	-66.78	3.011	13.52	V
	6944.36	-52.01	-13	-39.01	-62.21	3.271	13.47	V

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