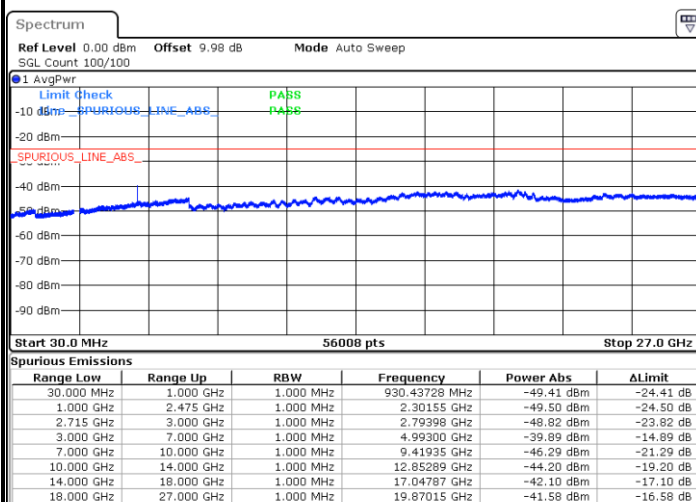




Conducted Spurious Emission

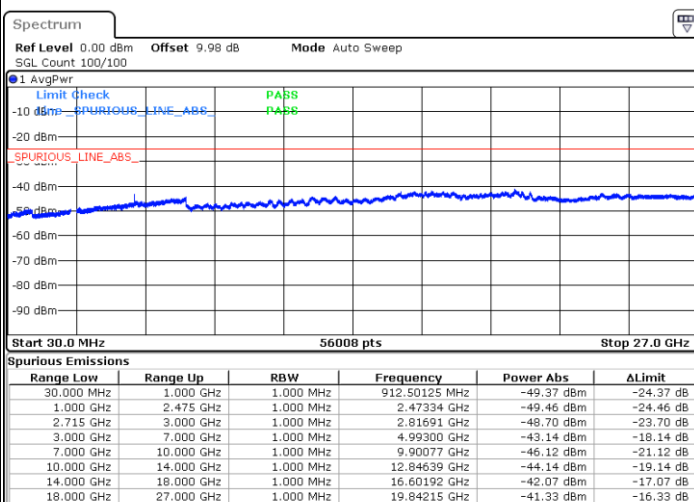
LTE Band 41 / 5MHz

Lowest Channel / QPSK



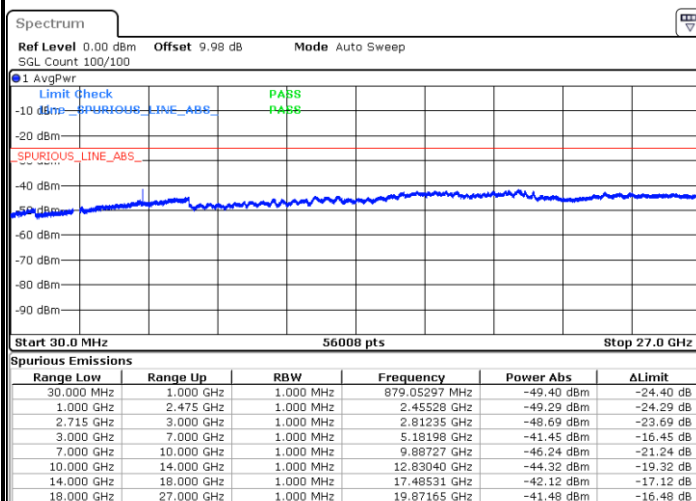
Date: 2 MAY 2020 15:51:05

Lowest Channel / 16QAM



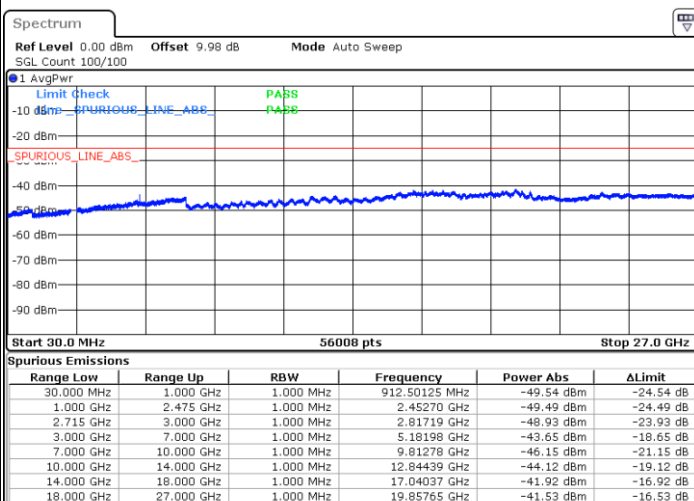
Date: 2 MAY 2020 15:52:00

Middle Channel / QPSK



Date: 2 MAY 2020 15:52:55

Middle Channel / 16QAM

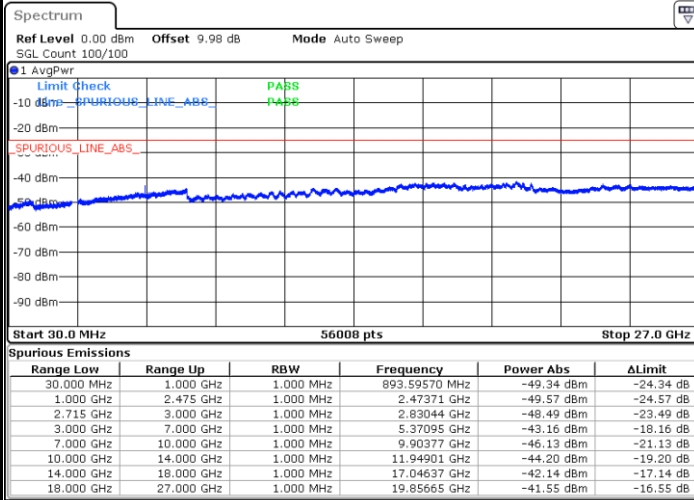


Date: 2 MAY 2020 15:53:49



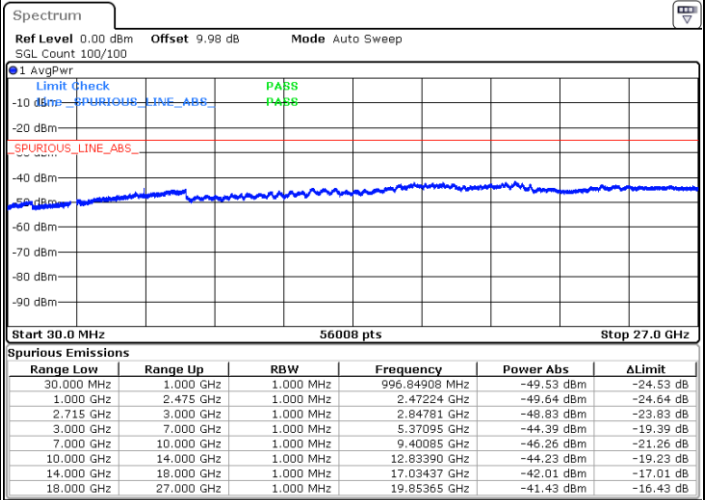
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 2 MAY 2020 15:59:16

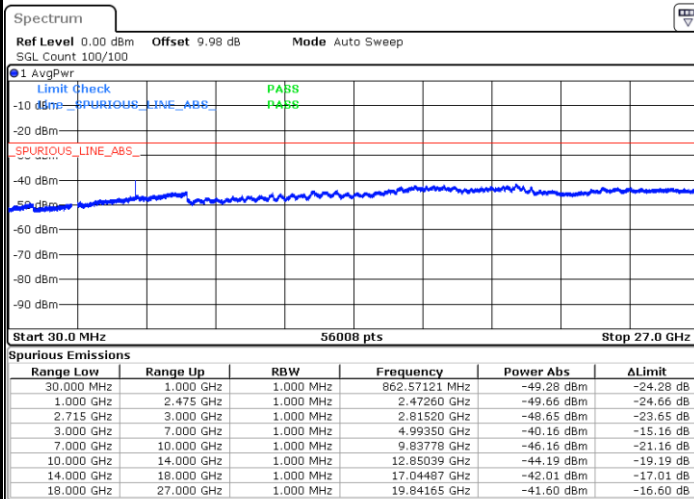
Highest Channel / 16QAM



Date: 2 MAY 2020 16:00:11

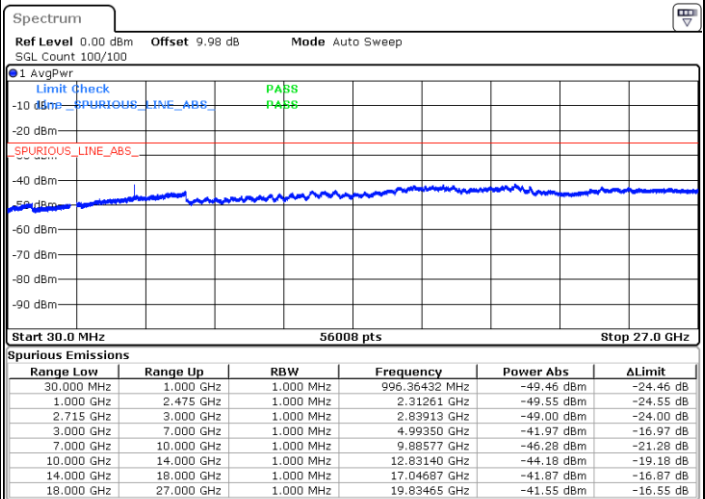
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 2 MAY 2020 16:05:38

Lowest Channel / 16QAM

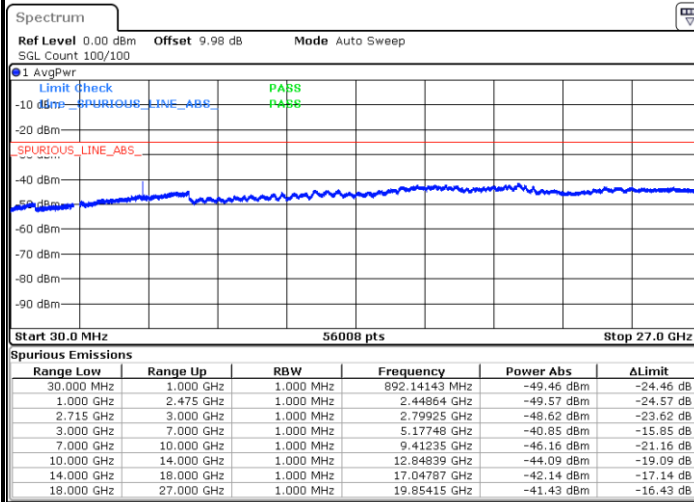


Date: 2 MAY 2020 16:06:33



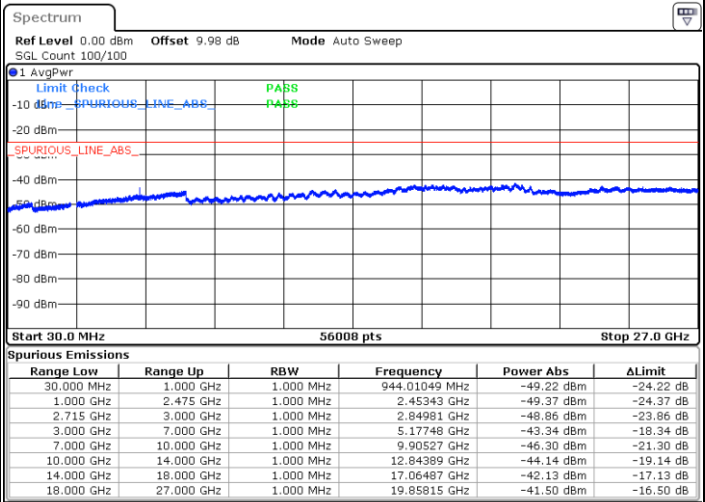
LTE Band 41 / 10MHz

Middle Channel / QPSK



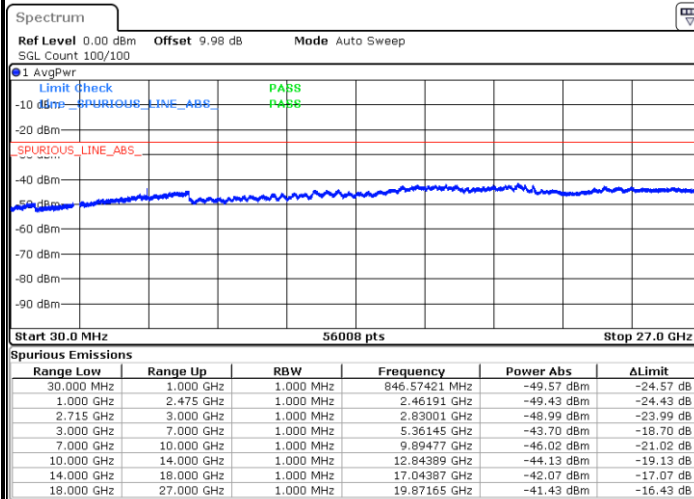
Date: 2 MAY 2020 16:07:27

Middle Channel / 16QAM



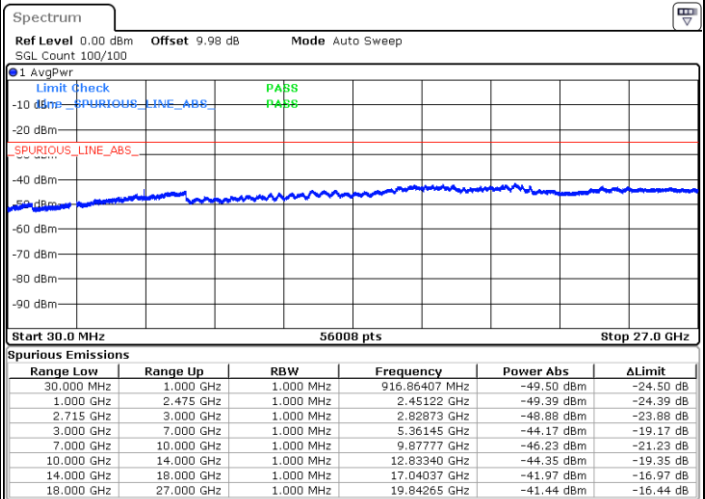
Date: 2 MAY 2020 16:08:22

Highest Channel / QPSK



Date: 2 MAY 2020 16:13:49

Highest Channel / 16QAM

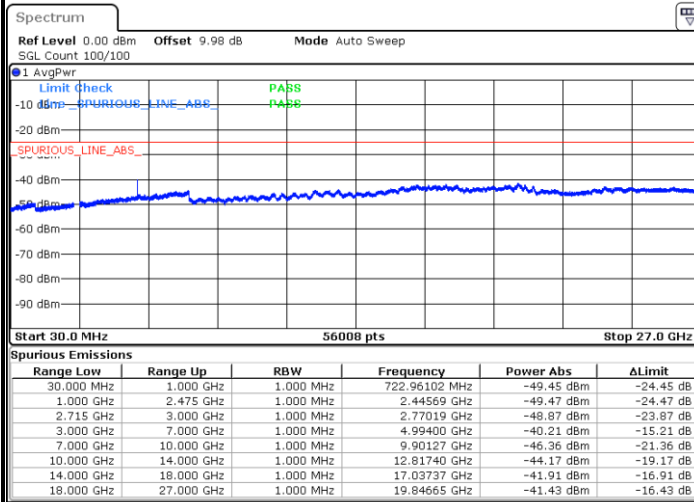


Date: 2 MAY 2020 16:14:44



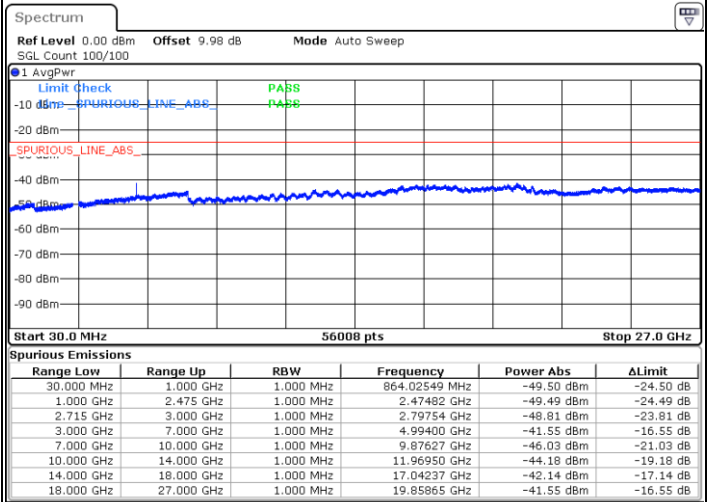
LTE Band 41 / 15MHz

Lowest Channel / QPSK



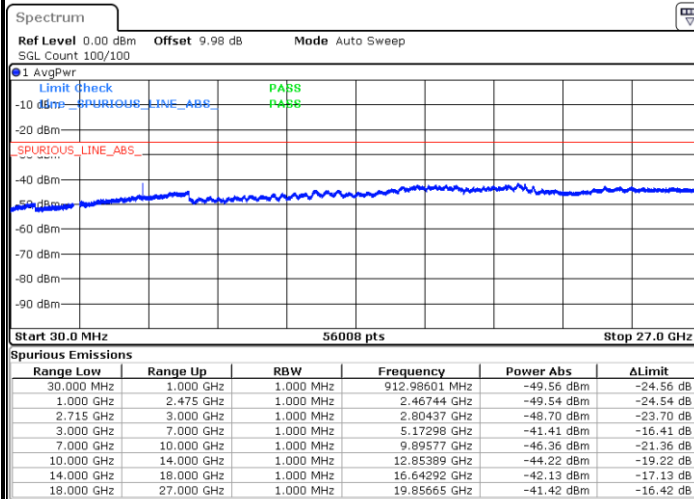
Date: 2 MAY 2020 16:20:11

Lowest Channel / 16QAM



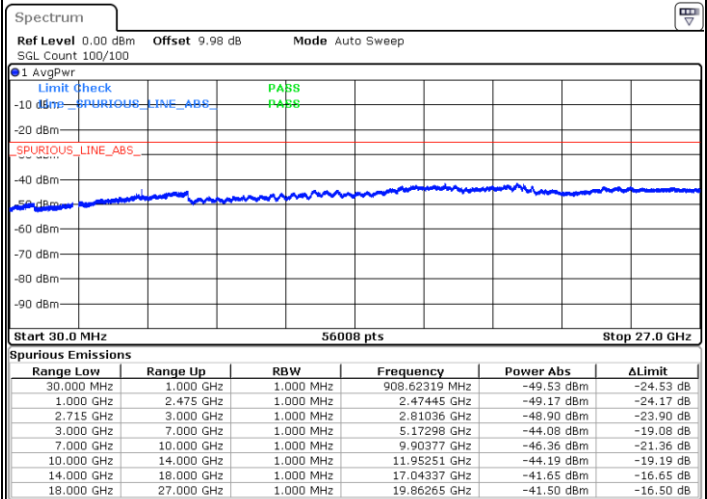
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Middle Channel / QPSK



Date: 2 MAY 2020 16:22:00

Middle Channel / 16QAM

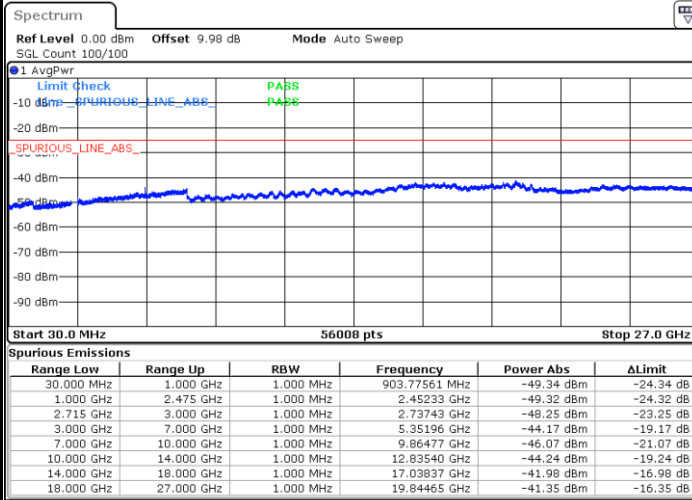


Date: 2 MAY 2020 16:22:55



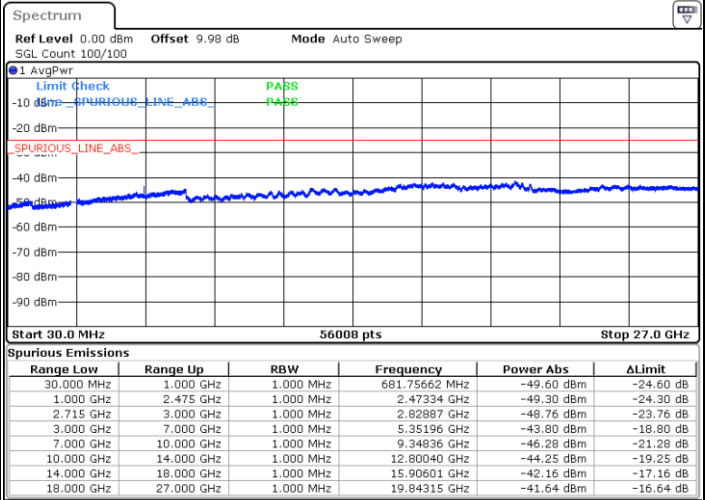
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 2 MAY 2020 16:28:22

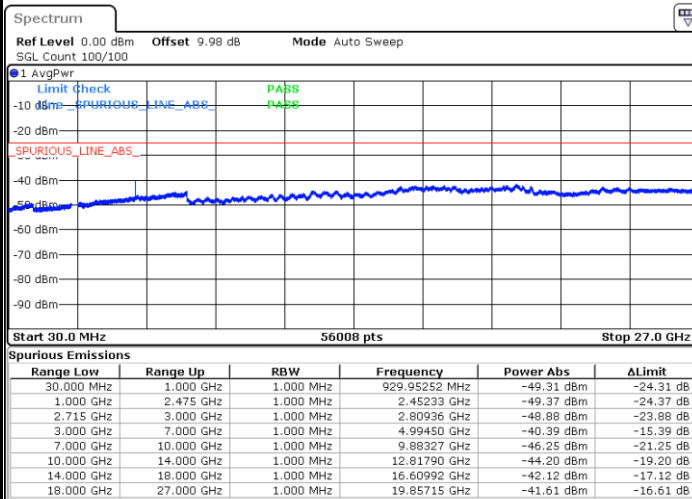
Highest Channel / 16QAM



Date: 2 MAY 2020 16:29:17

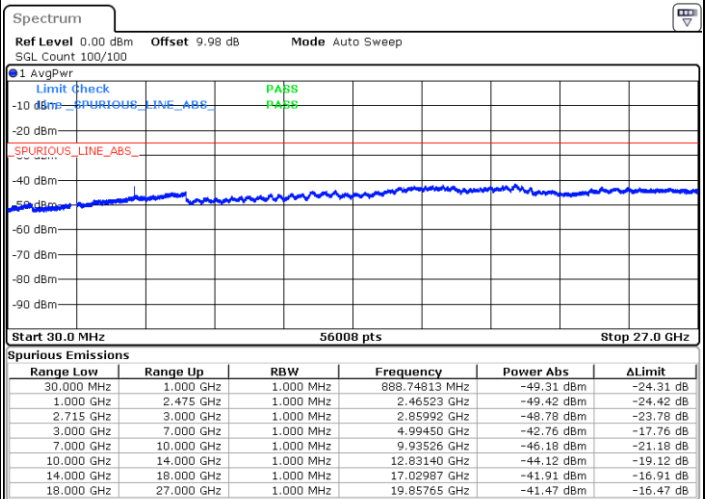
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 2 MAY 2020 16:34:44

Lowest Channel / 16QAM

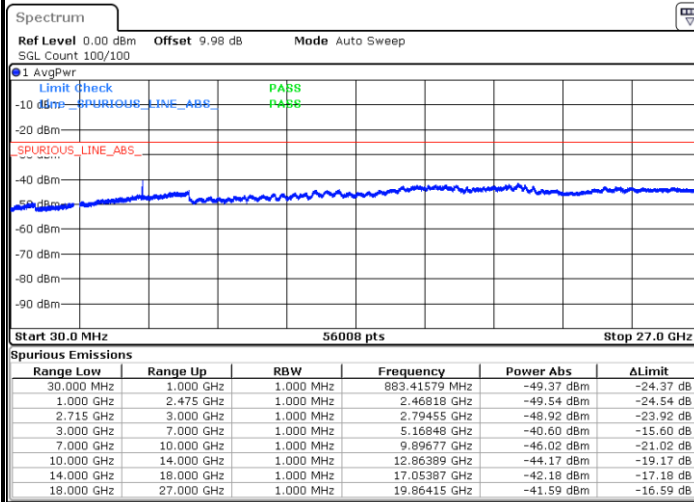


Date: 2 MAY 2020 16:35:38



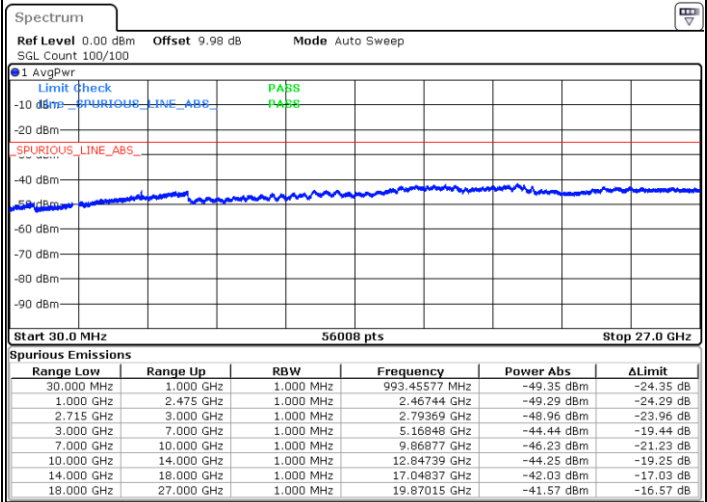
LTE Band 41 / 20MHz

Middle Channel / QPSK



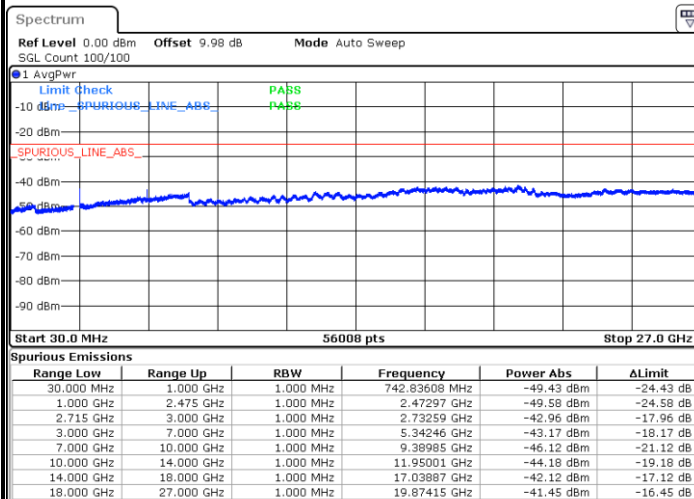
Date: 2 MAY 2020 16:36:33

Middle Channel / 16QAM



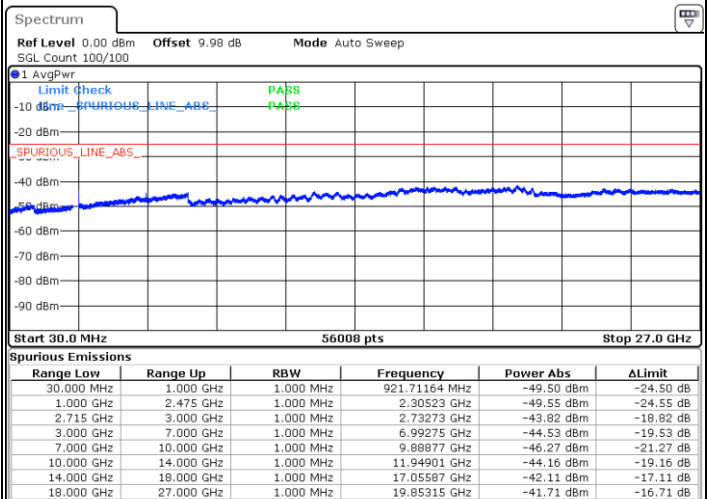
Date: 2 MAY 2020 16:37:27

Highest Channel / QPSK



Date: 2 MAY 2020 16:42:54

Highest Channel / 16QAM



Date: 2 MAY 2020 16:43:49

**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	0.0015	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0030	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0023	

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 5 / 10MHz / 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	1664	-60.39	-13	-47.39	-67.36	1.58	10.70	H
	2496.27	-60.52	-13	-47.52	-68.77	2.102	12.50	H
	3330	-59.85	-13	-46.85	-68.74	2.856	13.90	H
	4160	-51.78	-13	-38.78	-60.24	2.689	13.30	H
	1664	-56.80	-13	-43.80	-63.77	1.58	10.70	V
	2496	-56.56	-13	-43.56	-64.81	2.10	12.50	V
	3330	-59.87	-13	-46.87	-68.76	2.86	13.90	V
	4158	-53.06	-13	-40.06	-61.52	2.69	13.30	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	-52.23	-25	-27.23	-62.44	3.03	13.24	H
	7576	-44.12	-25	-19.12	-53.57	3.56	13.01	H
	10100	-46.21	-25	-21.21	-55.73	3.92	13.44	H
	12630	-44.65	-25	-19.65	-54.57	4.44	14.36	H
	5052	-58.59	-25	-33.59	-68.80	3.03	13.24	V
	7576	-46.56	-25	-21.56	-56.01	3.56	13.01	V
	10100	-50.48	-25	-25.48	-60.00	3.92	13.44	V
	12630	-44.74	-25	-19.74	-54.66	4.44	14.36	V

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



LTE Band 38 / 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	5172	-48.87	-25	-23.87	-59.08	3.03	13.24	H
	7760	-44.54	-25	-19.54	-53.99	3.56	13.01	H
	10340	-52.24	-25	-27.24	-61.76	3.92	13.44	H
	12930	-46.11	-25	-21.11	-56.03	4.44	14.36	H
	5172	-48.06	-25	-23.06	-58.27	3.03	13.24	V
	7760	-48.68	-25	-23.68	-58.13	3.56	13.01	V
	10340	-48.15	-25	-23.15	-57.67	3.92	13.44	V
	12930	-45.77	-25	-20.77	-55.69	4.44	14.36	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	5172	-48.03	-25	-23.03	-58.24	3.03	13.24	H
	7758	-42.52	-25	-17.52	-51.97	3.56	13.01	H
	10340	-45.58	-25	-20.58	-55.10	3.92	13.44	H
	12930	-42.79	-25	-17.79	-52.71	4.44	14.36	H
	5172	-53.39	-25	-28.39	-63.60	3.03	13.24	V
	7760	-47.67	-25	-22.67	-57.12	3.56	13.01	V
	10340	-45.26	-25	-20.26	-54.78	3.92	13.44	V
	12930	-47.76	-25	-22.76	-57.68	4.44	14.36	V

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