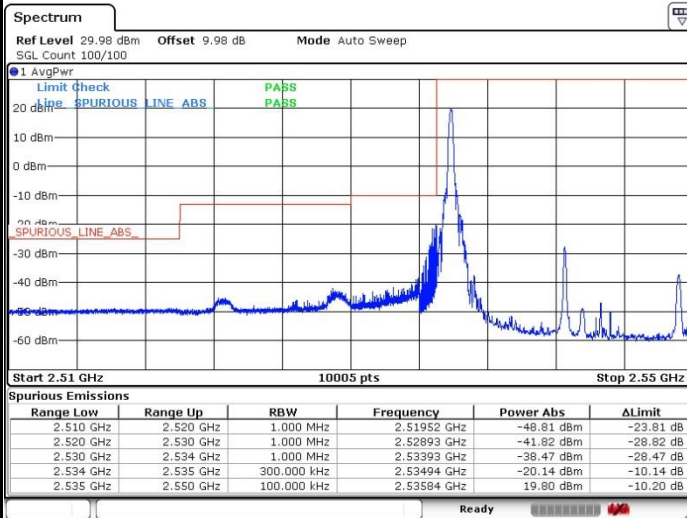




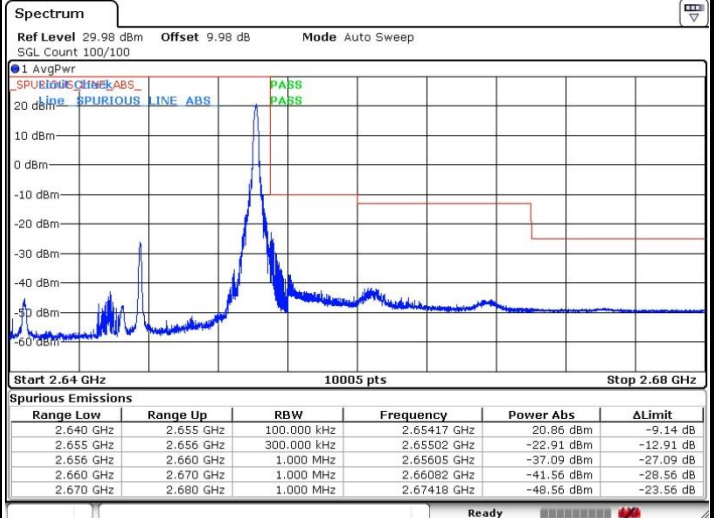
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



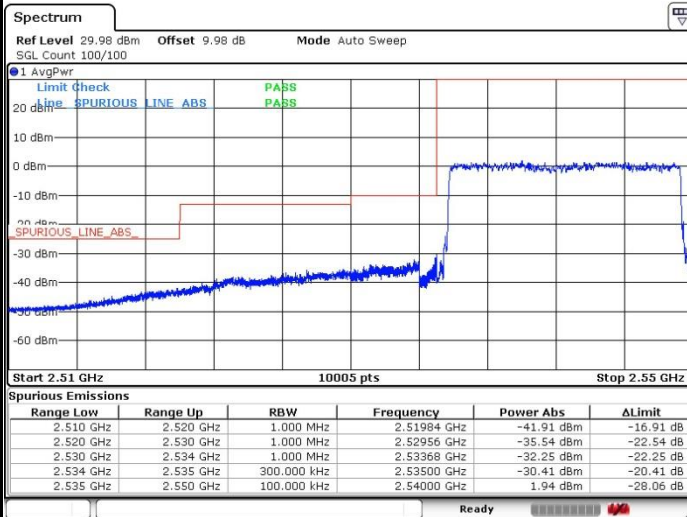
Date: 28 JUL 2020 11:35:54

Highest Band Edge / 1 RB



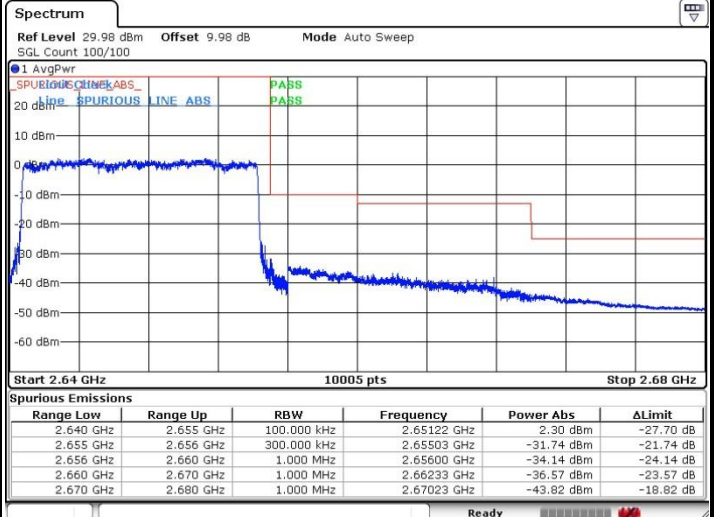
Date: 28 JUL 2020 12:07:54

Lowest Band Edge / Full RB



Date: 28 JUL 2020 11:35:13

Highest Band Edge / Full RB

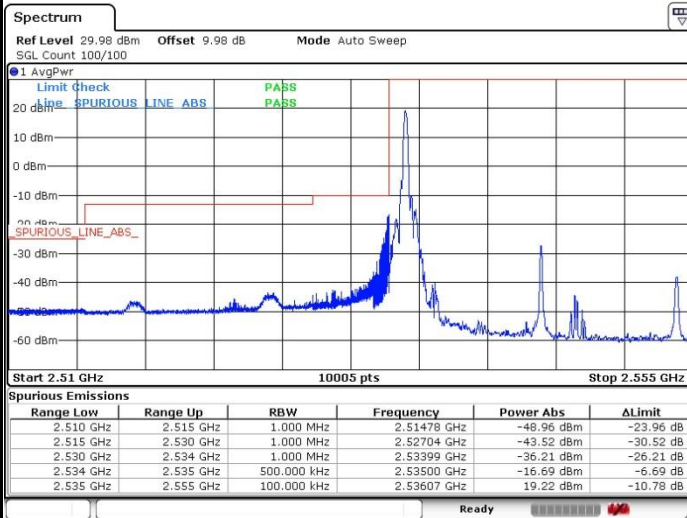


Date: 28 JUL 2020 12:07:30



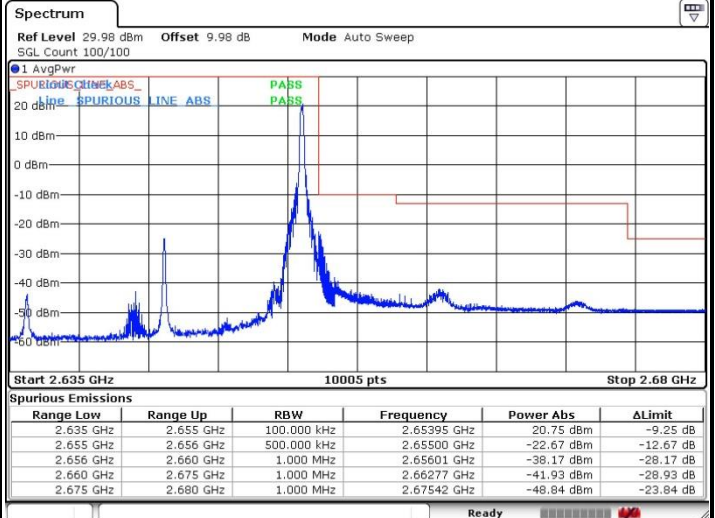
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



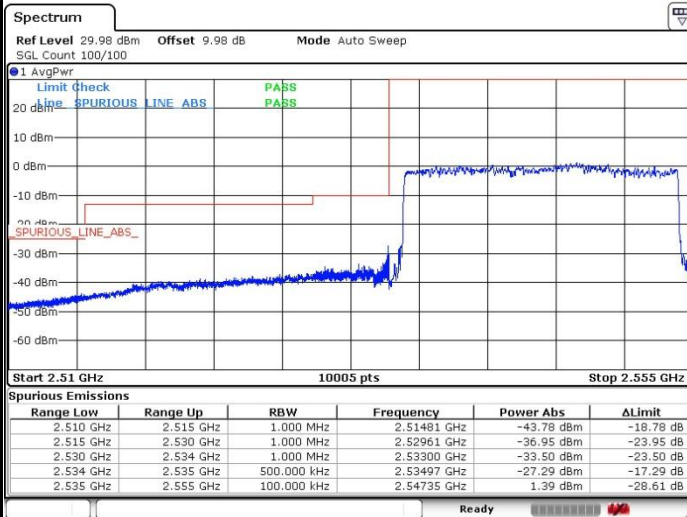
Date: 28 JUL 2020 10:45:47

Highest Band Edge / 1 RB



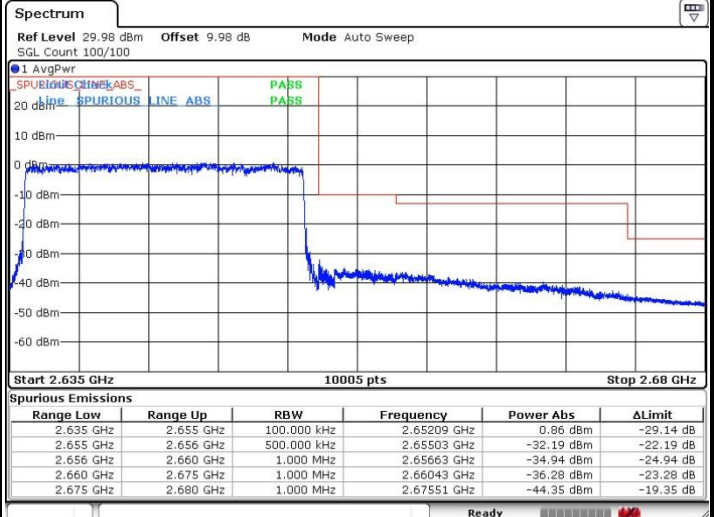
Date: 28 JUL 2020 12:11:23

Lowest Band Edge / Full RB



Date: 28 JUL 2020 10:46:06

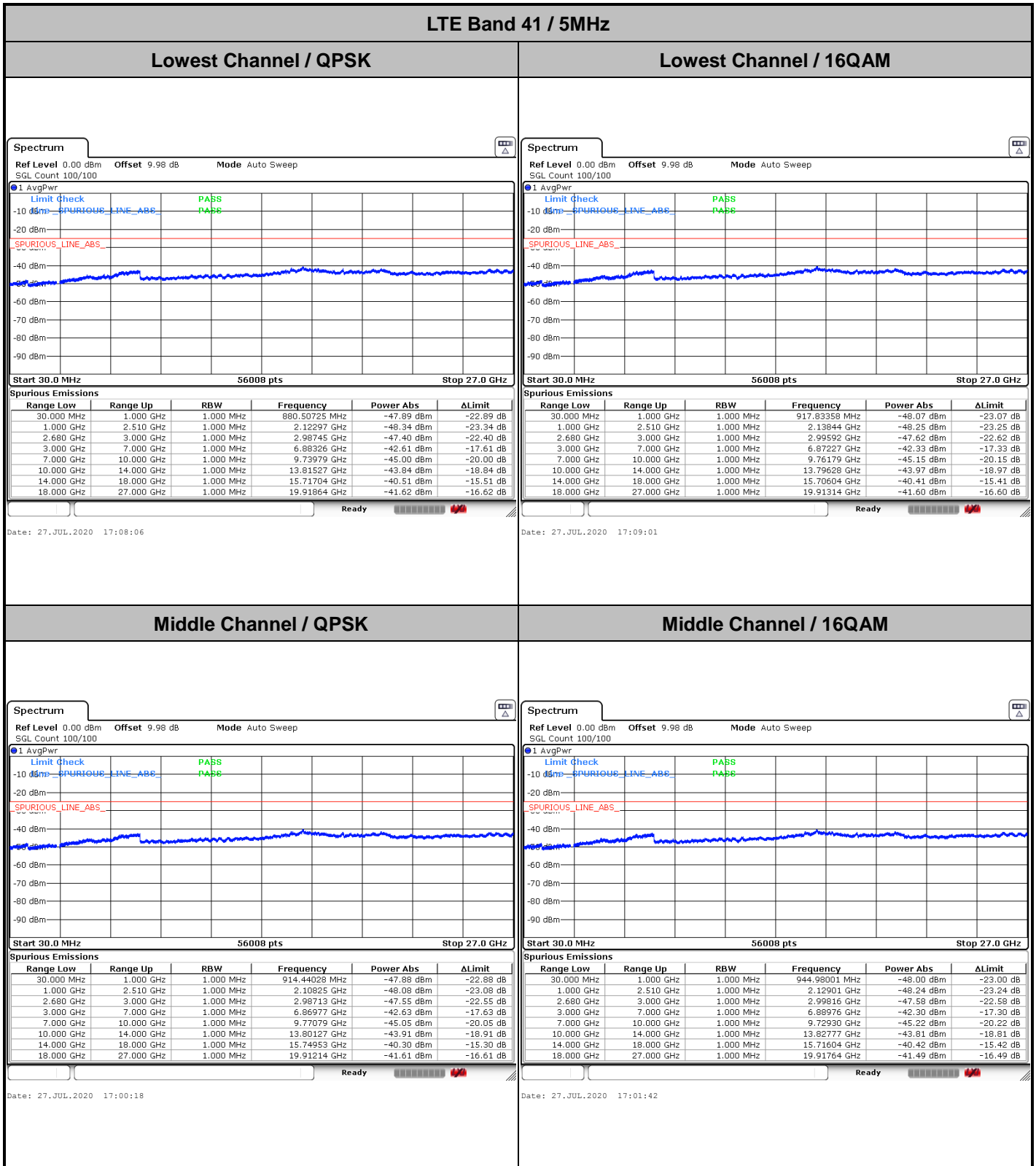
Highest Band Edge / Full RB



Date: 28 JUL 2020 12:11:06



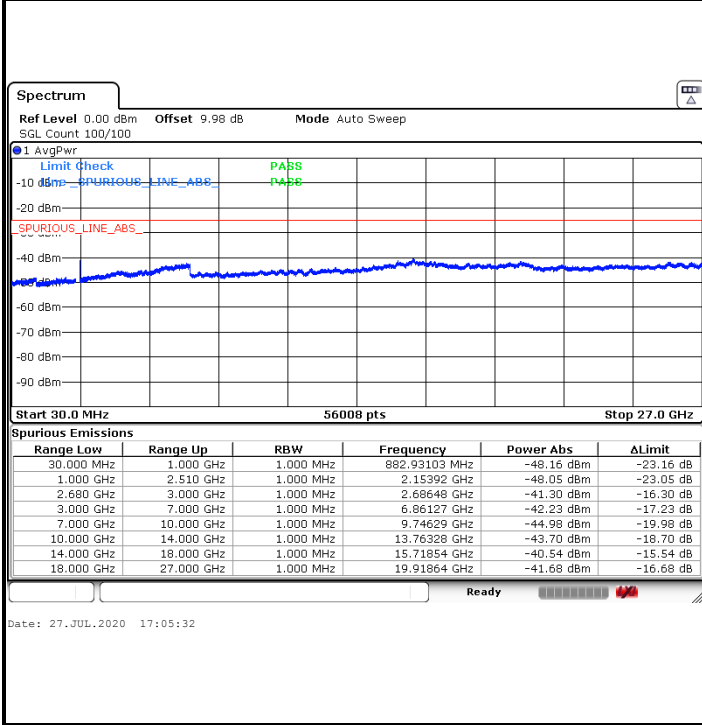
Conducted Spurious Emission



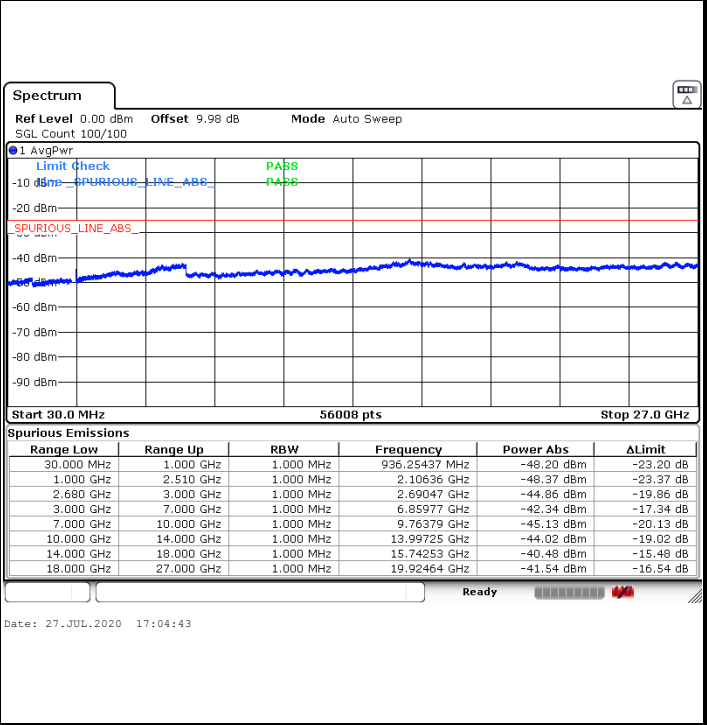


LTE Band 41 / 5MHz

Highest Channel / QPSK

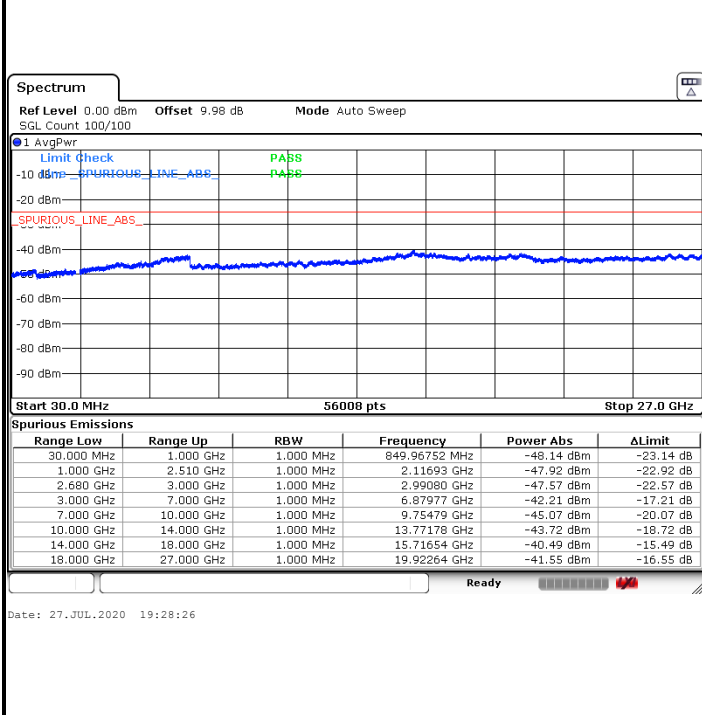


Highest Channel / 16QAM

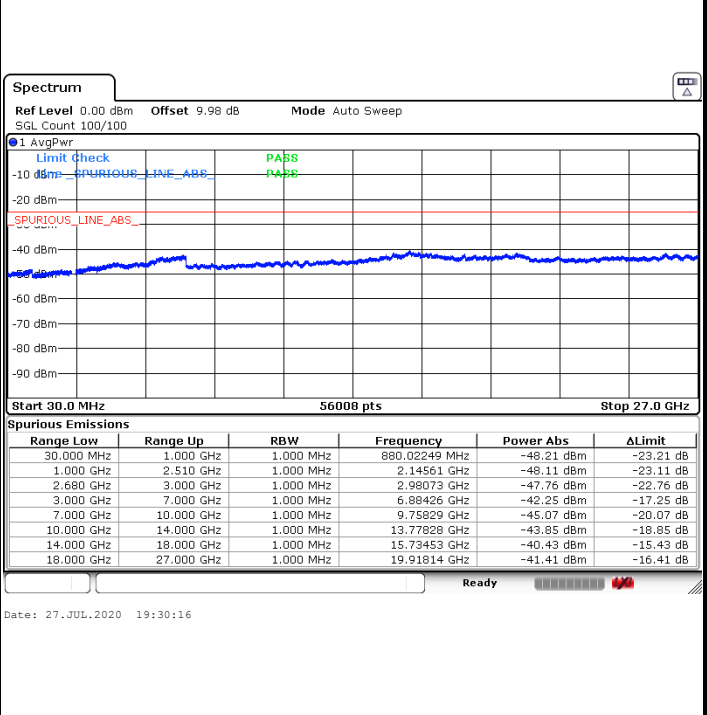


LTE Band 41 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

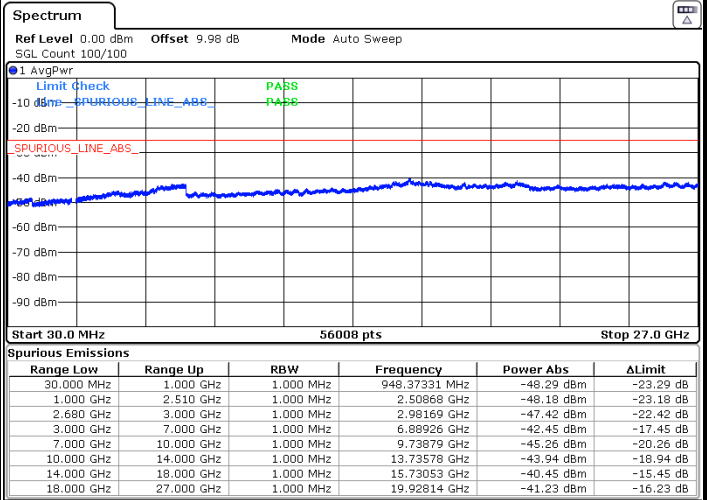
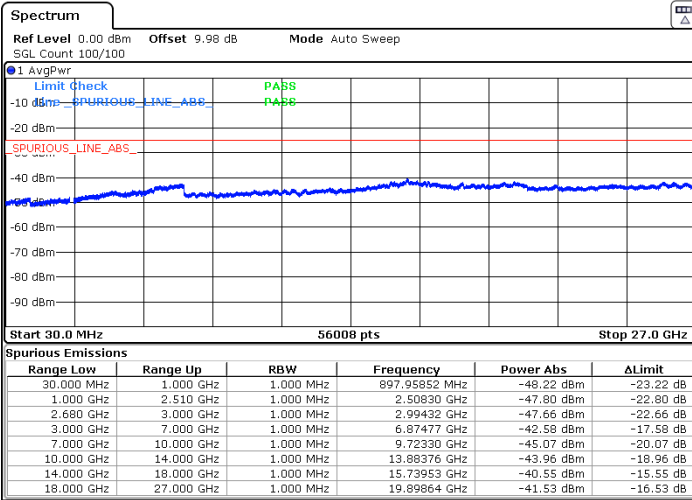




LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

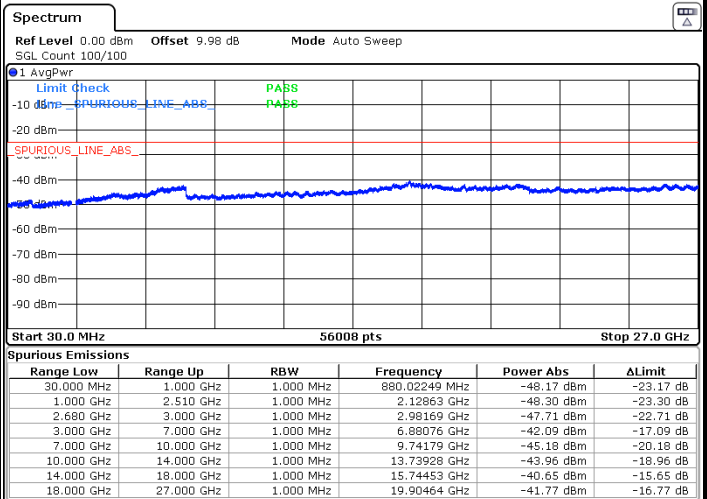
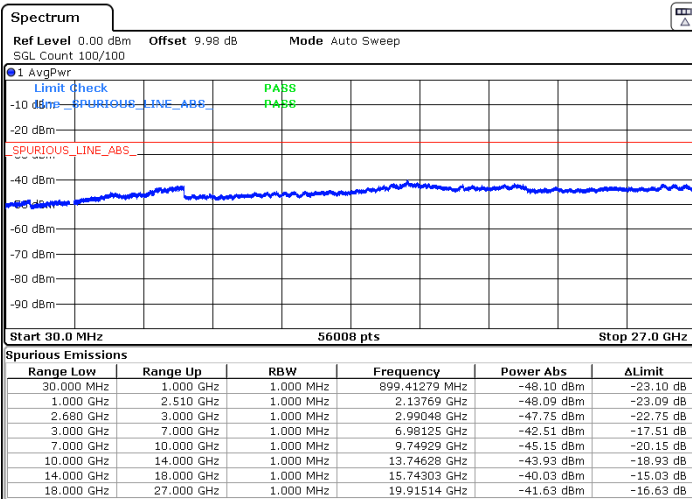


Date: 27.JUL.2020 17:29:54

Date: 27.JUL.2020 19:09:37

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 27.JUL.2020 17:19:49

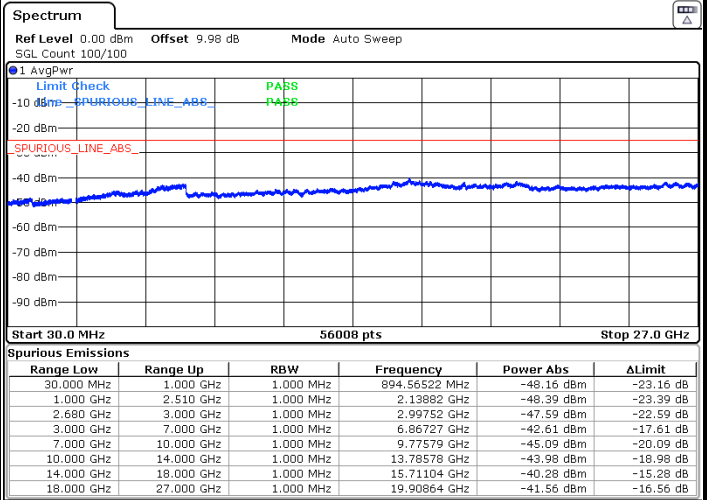
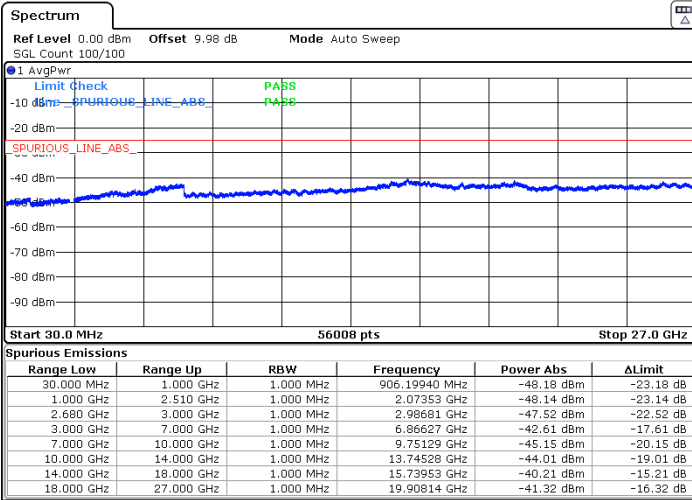
Date: 27.JUL.2020 17:15:09



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

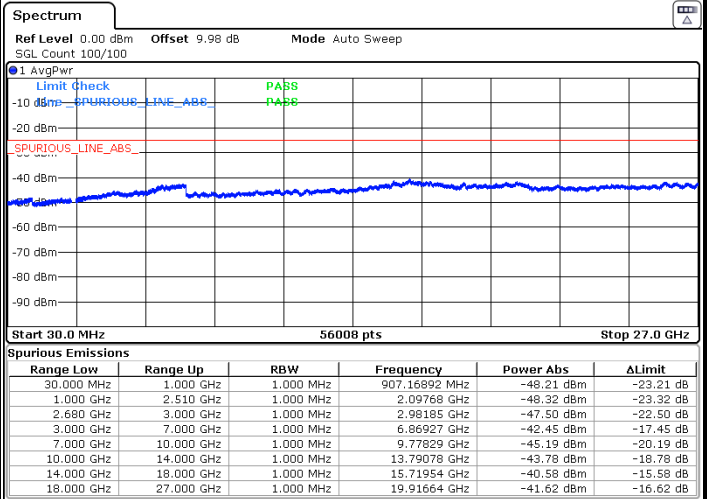
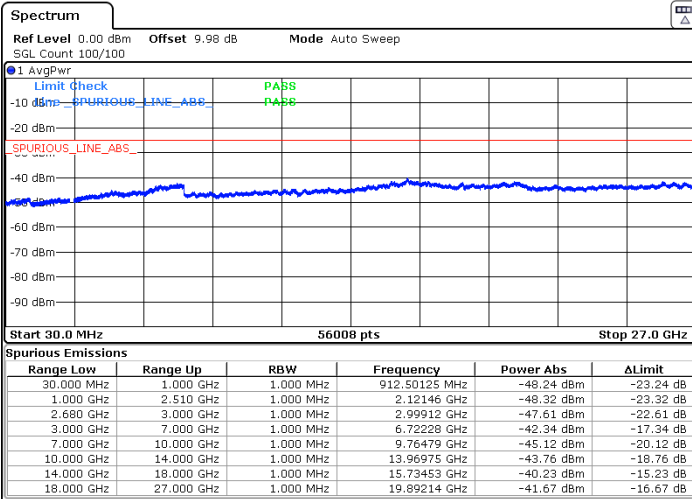


Date: 27.JUL.2020 20:04:33

Date: 27.JUL.2020 19:57:13

Middle Channel / QPSK

Middle Channel / 16QAM



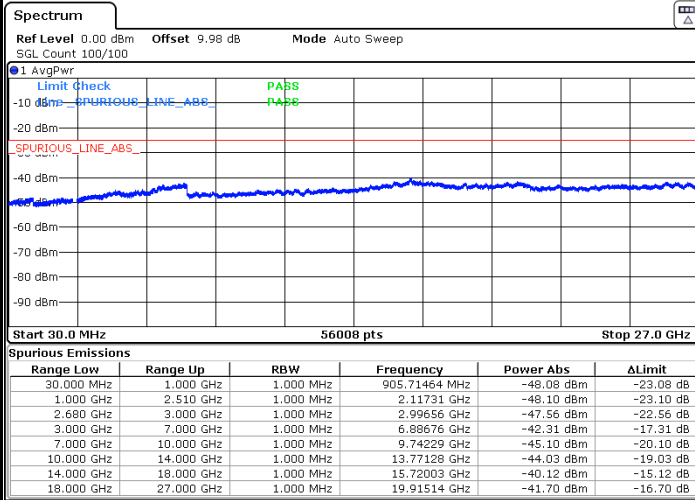
Date: 27.JUL.2020 19:48:12

Date: 27.JUL.2020 19:51:17



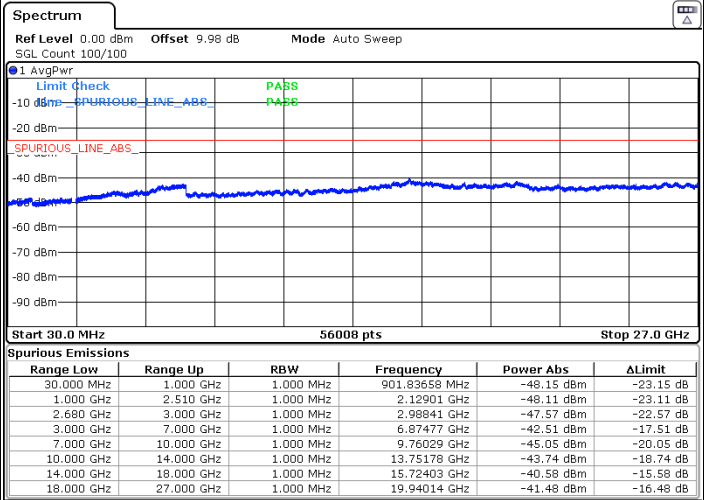
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 27.JUL.2020 19:53:20

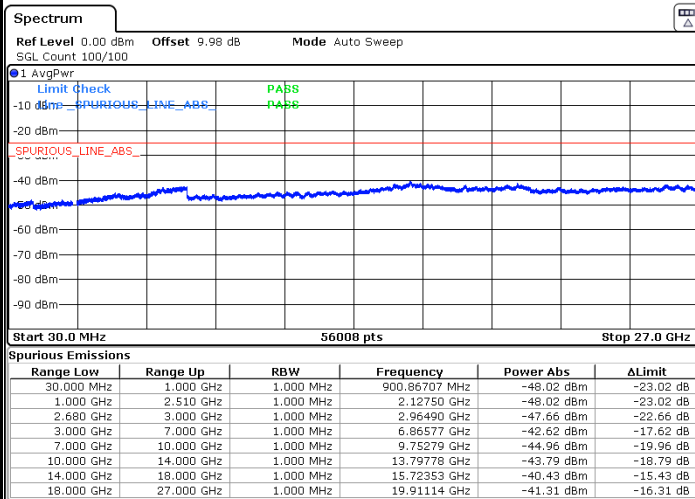
Highest Channel / 16QAM



Date: 27.JUL.2020 19:54:15

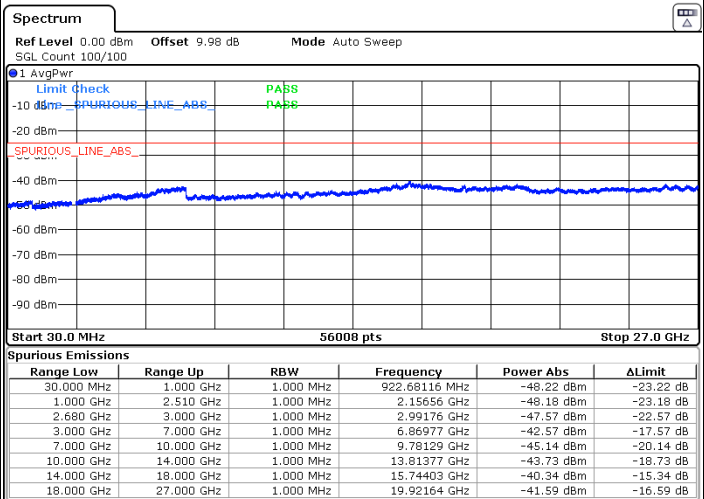
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 27.JUL.2020 20:05:23

Lowest Channel / 16QAM



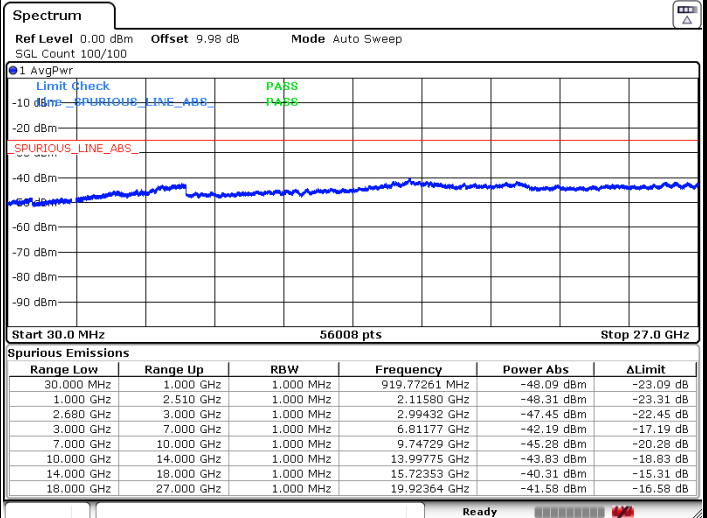
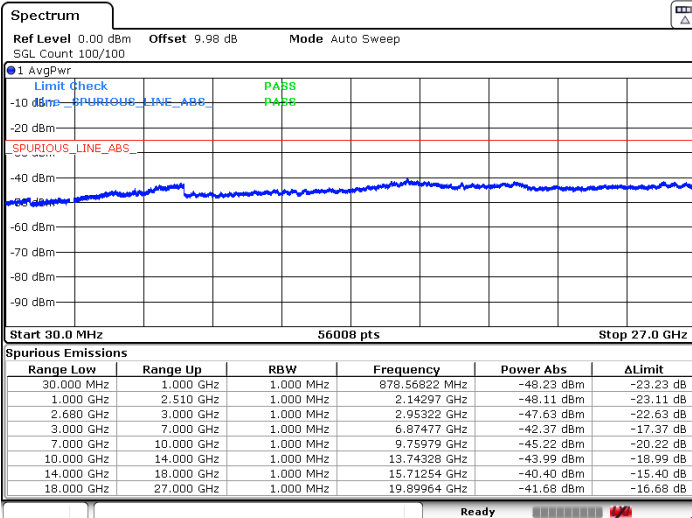
Date: 27.JUL.2020 20:06:09



LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

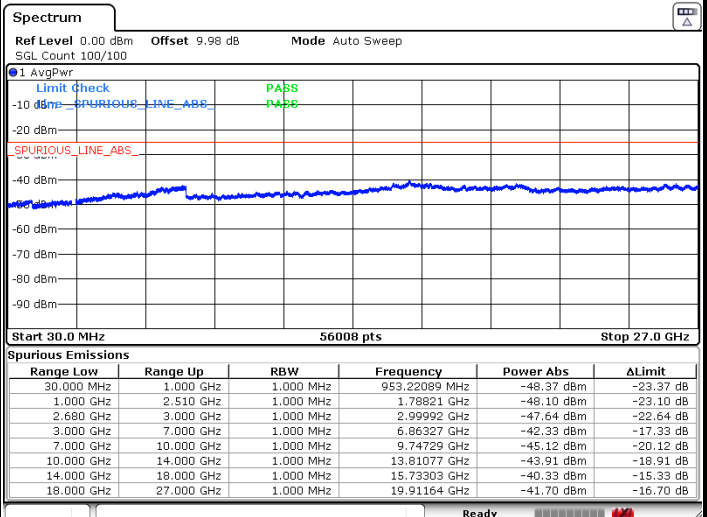
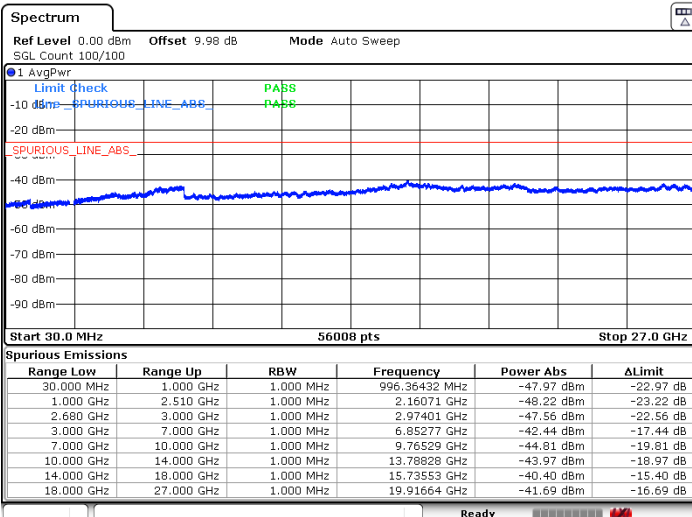


Date: 27.JUL.2020 20:08:19

Date: 27.JUL.2020 20:09:09

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 27.JUL.2020 20:10:59

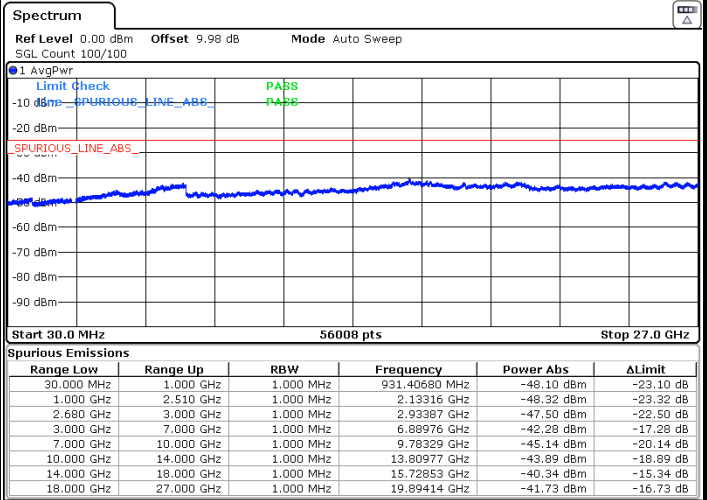
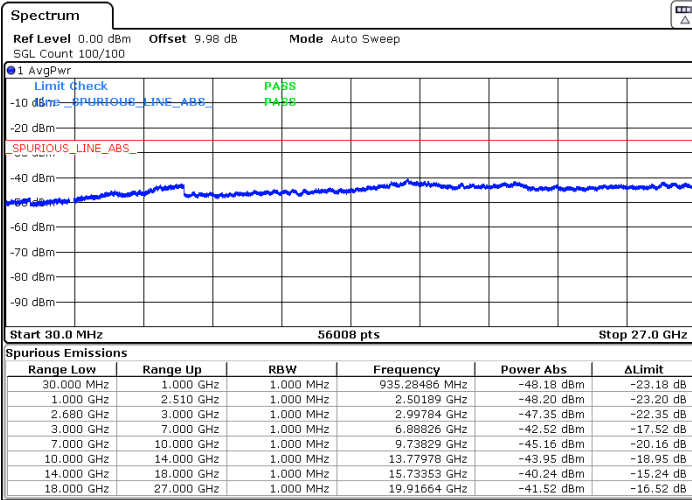
Date: 27.JUL.2020 20:11:57



LTE Band 41 / 5MHz

Lowest Channel / 64QAM

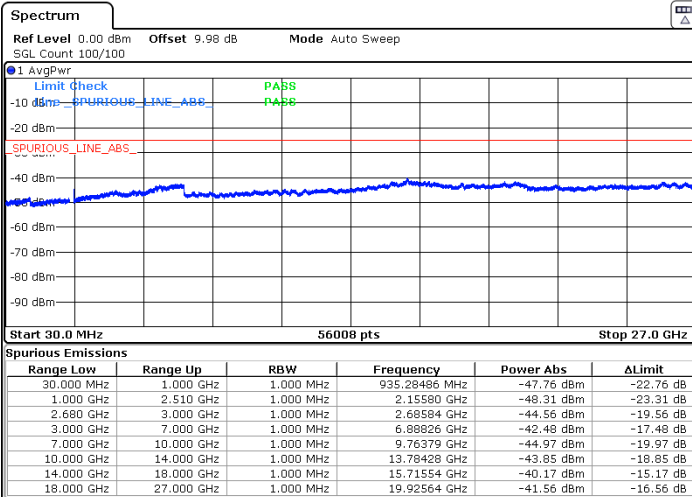
Middle Channel / 64QAM



Date: 27.JUL.2020 17:11:30

Date: 27.JUL.2020 17:02:31

Highest Channel / 64QAM



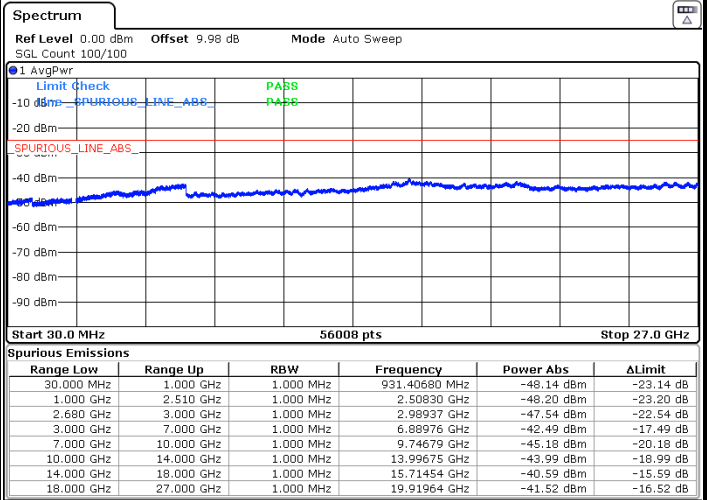
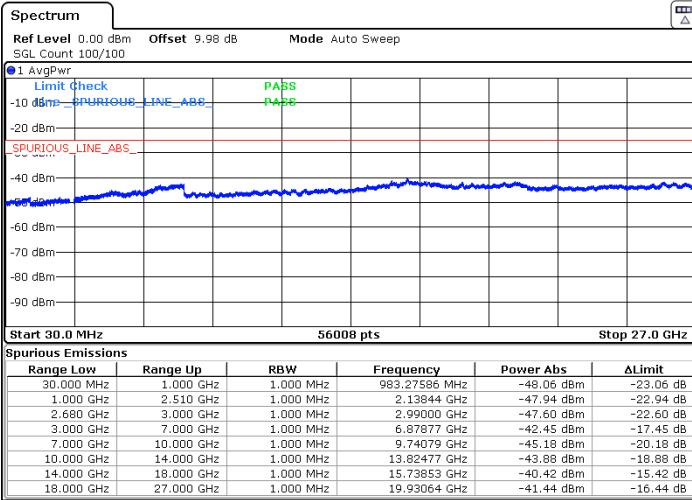
Date: 27.JUL.2020 17:03:37



LTE Band 41 / 10MHz

Lowest Channel / 64QAM

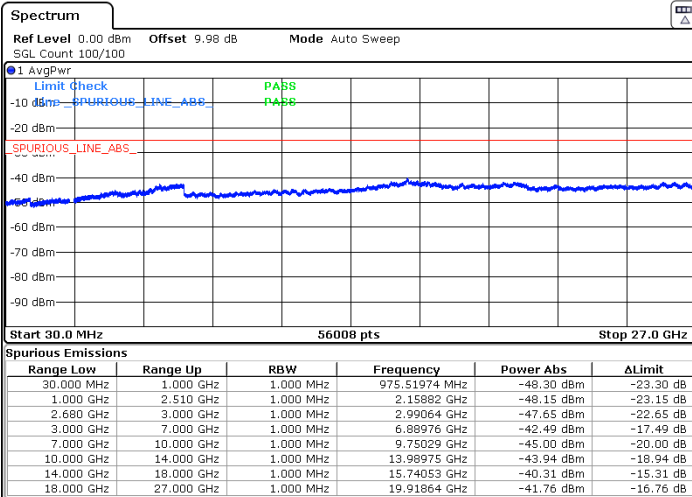
Middle Channel / 64QAM



Date: 27.JUL.2020 19:33:31

Date: 27.JUL.2020 19:12:59

Highest Channel / 64QAM



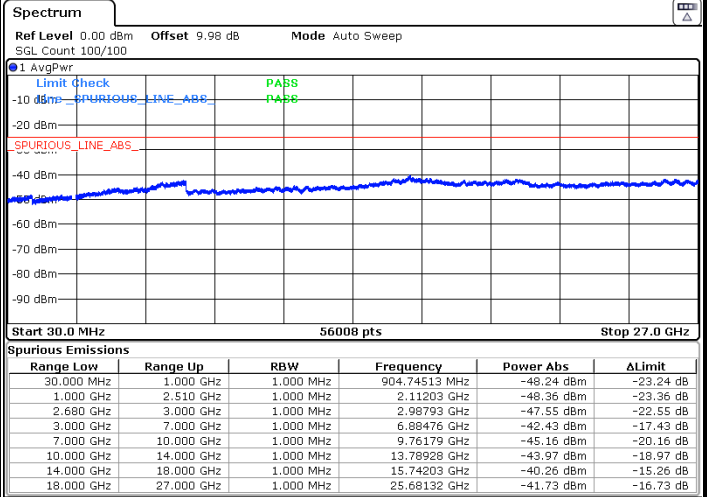
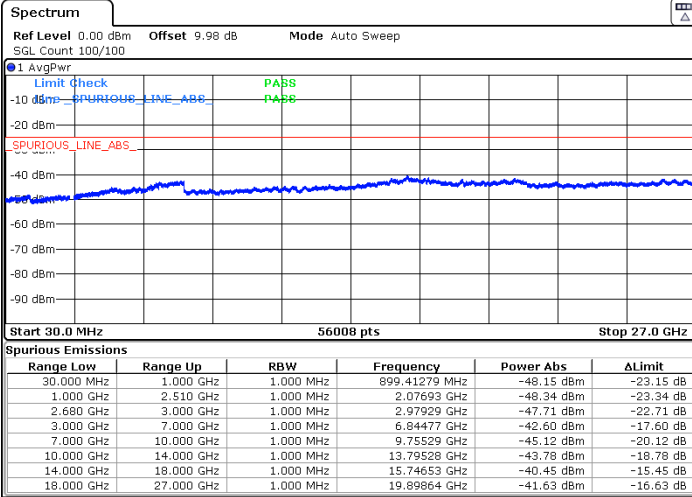
Date: 27.JUL.2020 17:14:17



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

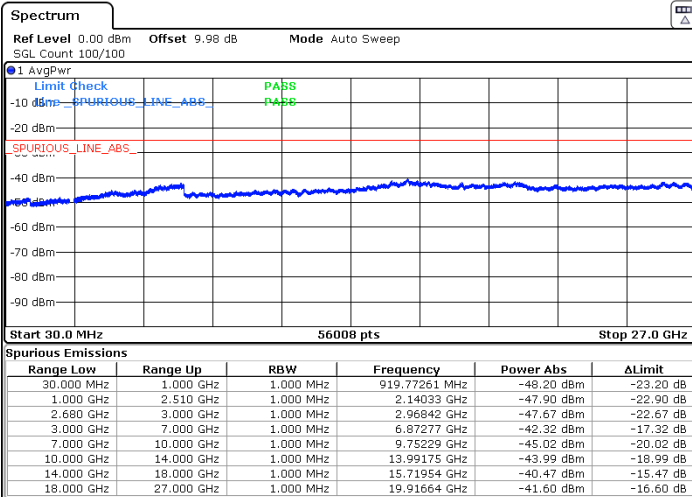
Middle Channel / 64QAM



Date: 27.JUL.2020 19:55:55

Date: 27.JUL.2020 19:52:10

Highest Channel / 64QAM



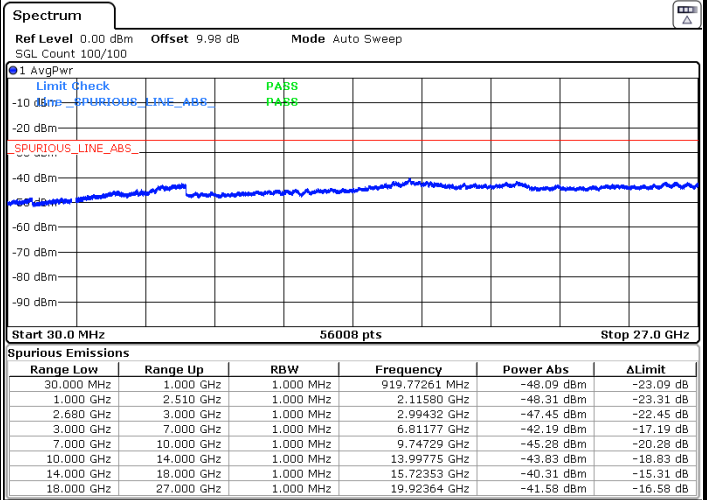
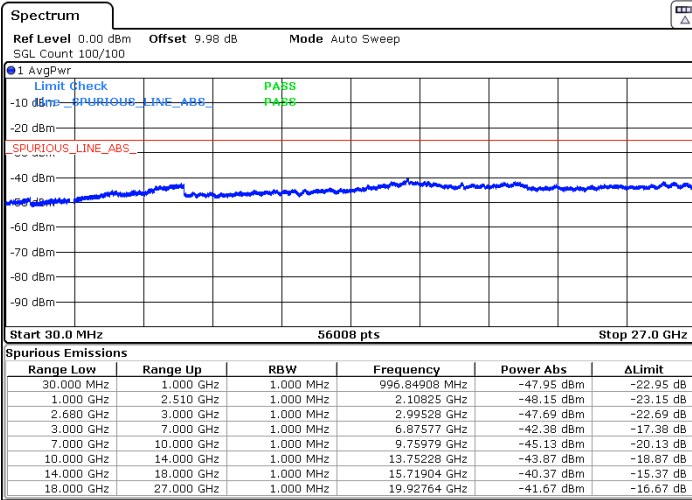
Date: 27.JUL.2020 19:55:04



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

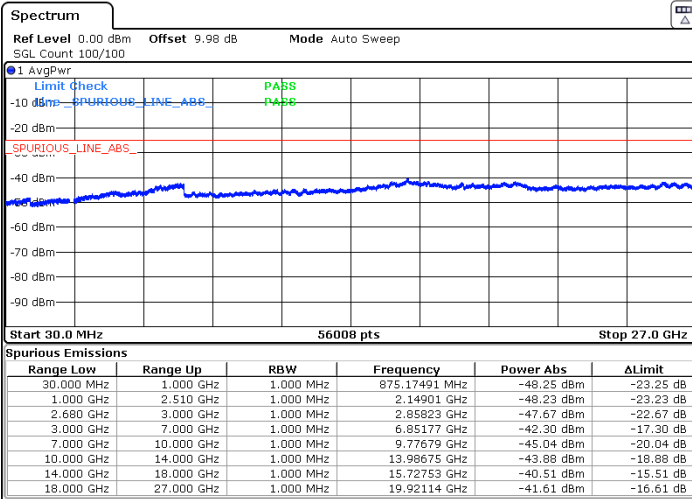
Middle Channel / 64QAM



Date: 27. JUL. 2020 20:07:24

Date: 27. JUL. 2020 20:09:49

Highest Channel / 64QAM



Date: 27. JUL. 2020 20:12:46



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	0.0022	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0037	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0011	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 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)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1649.18	-49.00	-13	-36.00	-55.97	1.58	10.70	H
	2473.77	-36.49	-13	-23.49	-44.74	2.102	12.50	H
	3300	-53.26	-13	-40.26	-62.15	2.856	13.90	H
	1649.18	-52.68	-13	-39.68	-59.65	1.58	10.70	V
	2473.77	-32.39	-13	-19.39	-40.64	2.10	12.50	V
	3298.36	-53.34	-13	-40.34	-62.23	2.86	13.90	V
Middle	1664	-48.01	-13	-35.01	-54.98	1.58	10.70	H
	2496	-36.41	-13	-23.41	-44.66	2.102	12.50	H
	3330	-53.96	-13	-40.96	-62.85	2.856	13.90	H
	1664	-53.09	-13	-40.09	-60.06	1.58	10.70	V
	2496	-35.29	-13	-22.29	-43.54	2.10	12.50	V
	3330	-53.28	-13	-40.28	-62.17	2.86	13.90	V
Highest	1679.18	-47.46	-13	-34.46	-54.43	1.58	10.70	H
	2518.77	-29.00	-13	-16.00	-37.25	2.102	12.50	H
	3358.36	-53.75	-13	-40.75	-62.64	2.856	13.90	H
	1679.18	-53.52	-13	-40.52	-60.49	1.58	10.70	V
	2518.77	-34.90	-13	-21.90	-43.15	2.10	12.50	V
	3358.36	-52.16	-13	-39.16	-61.05	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)
Lowest	5002.18	-55.28	-25	-30.28	-65.49	3.03	13.24	H
	7503.27	-46.83	-25	-21.83	-56.28	3.56	13.01	H
	10004.36	-34.86	-25	-9.86	-44.38	3.92	13.44	H
	5002.18	-59.82	-25	-34.82	-70.03	3.03	13.24	V
	7503.27	-45.23	-25	-20.23	-54.68	3.56	13.01	V
	10004.36	-36.18	-25	-11.18	-45.70	3.92	13.44	V
Middle	5172	-46.00	-25	-21.00	-56.21	3.03	13.24	H
	7758.27	-31.35	-25	-6.35	-40.80	3.56	13.01	H
	10344.36	-36.04	-25	-11.04	-45.56	3.92	13.44	H
	5172	-47.97	-25	-22.97	-58.18	3.03	13.24	V
	7760	-38.25	-25	-13.25	-47.70	3.56	13.01	V
	10340	-36.91	-25	-11.91	-46.43	3.92	13.44	V
Highest	5340	-65.02	-25	-40.02	-75.23	3.03	13.24	H
	8013.27	-61.90	-25	-36.90	-71.35	3.56	13.01	H
	10683	-55.77	-25	-30.77	-65.29	3.92	13.44	H
	5340	-64.91	-25	-39.91	-75.12	3.03	13.24	V
	8013.27	-57.03	-25	-32.03	-66.48	3.56	13.01	V
	10683	-56.10	-25	-31.10	-65.62	3.92	13.44	V

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