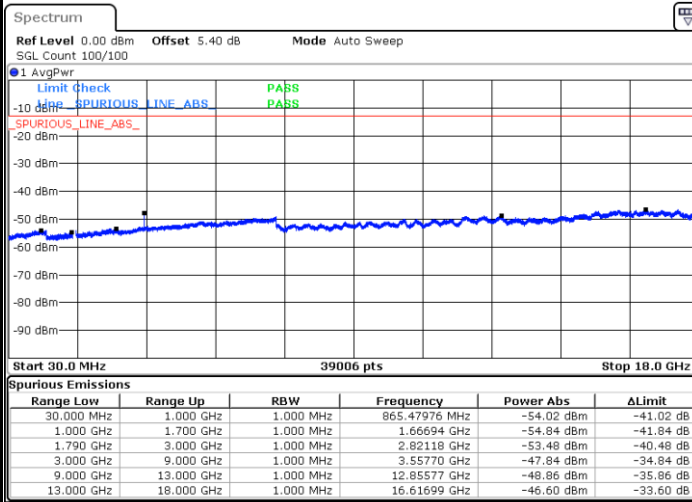




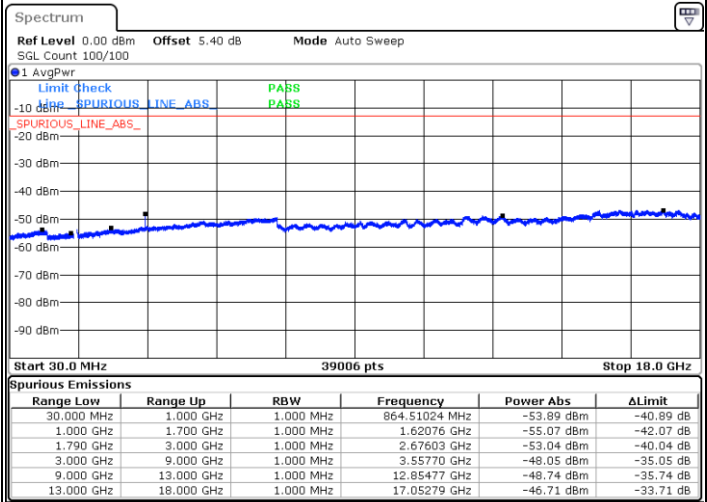
LTE Band 66 / 1.4MHz

Highest Channel / QPSK



Date: 11.AUG.2020 08:01:42

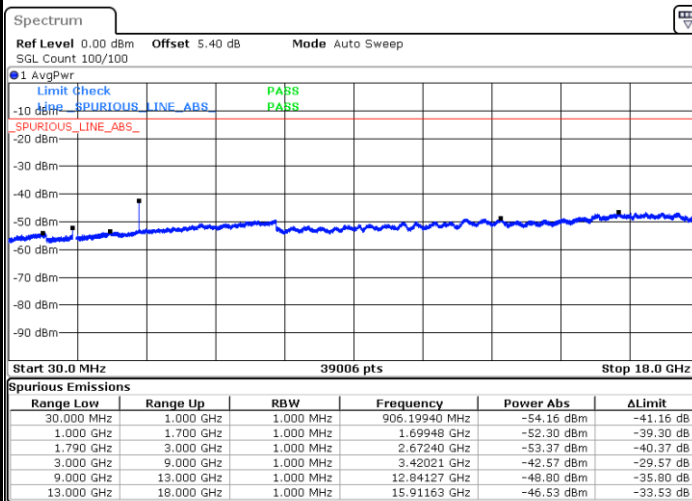
Highest Channel / 16QAM



Date: 11.AUG.2020 08:00:55

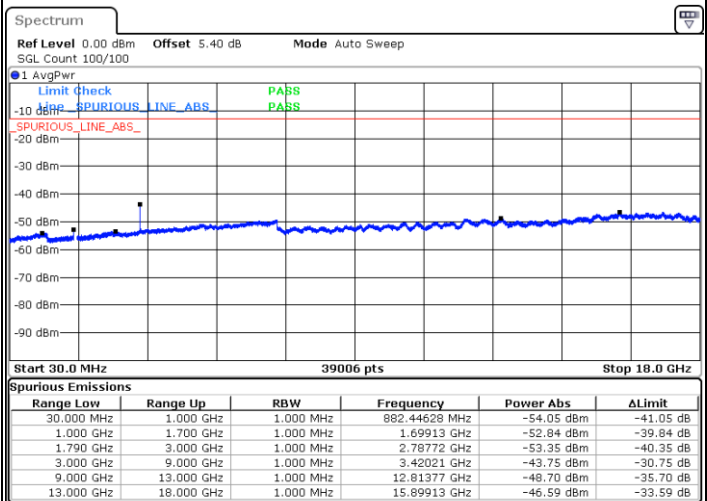
LTE Band 66 / 3MHz

Lowest Channel / QPSK



Date: 11.AUG.2020 07:11:57

Lowest Channel / 16QAM

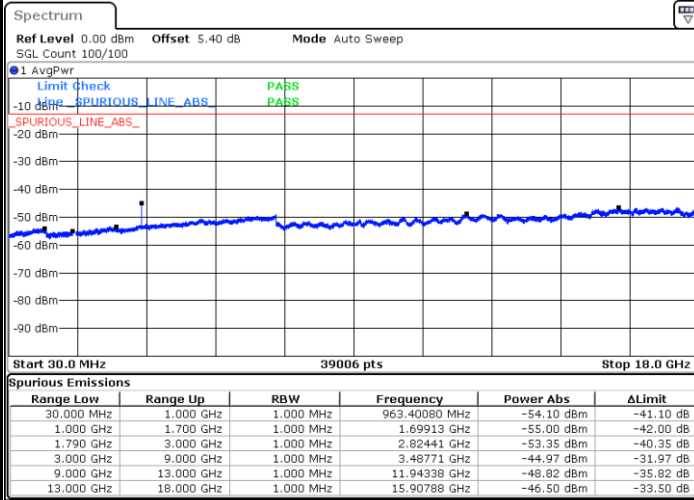


Date: 11.AUG.2020 07:12:38



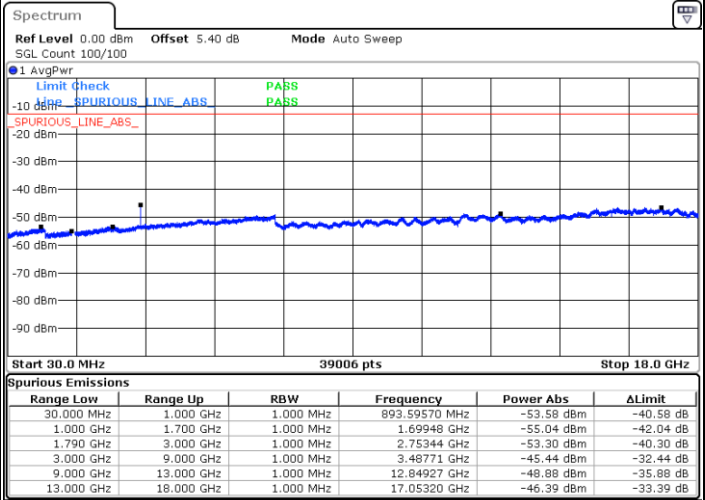
LTE Band 66 / 3MHz

Middle Channel / QPSK



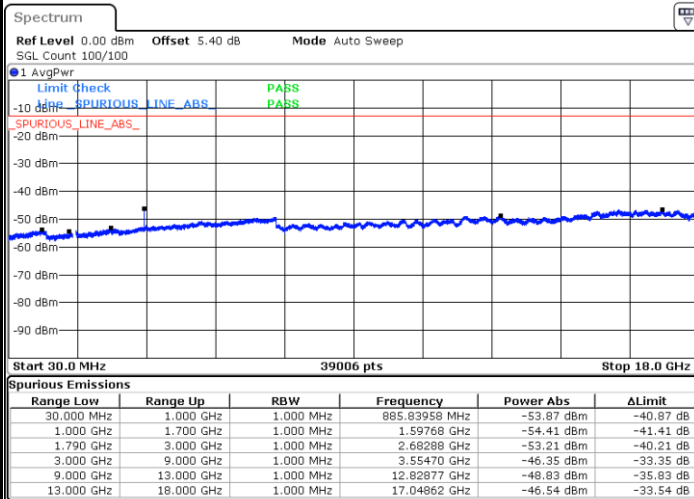
Date: 11.AUG.2020 07:09:33

Middle Channel / 16QAM



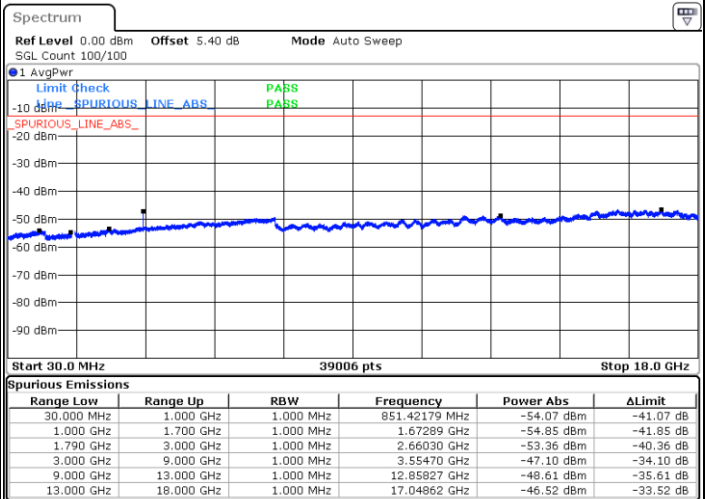
Date: 11.AUG.2020 07:08:24

Highest Channel / QPSK



Date: 11.AUG.2020 07:25:41

Highest Channel / 16QAM

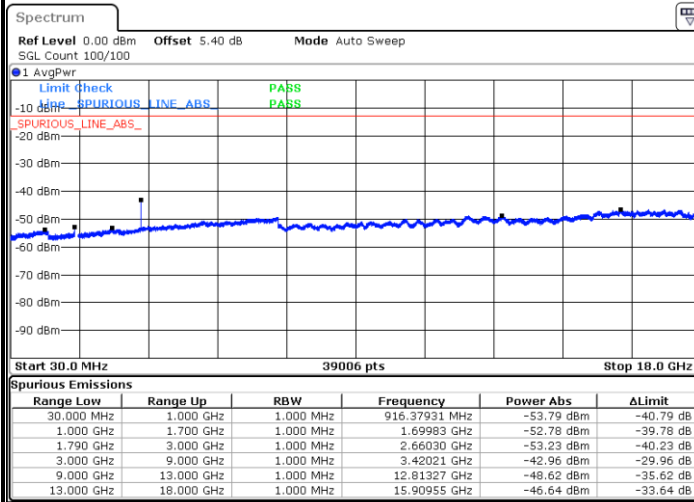


Date: 11.AUG.2020 07:24:48



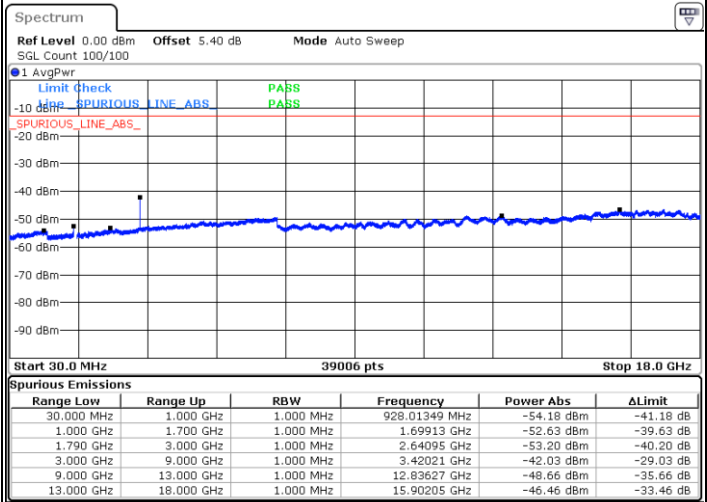
LTE Band 66 / 5MHz

Lowest Channel / QPSK



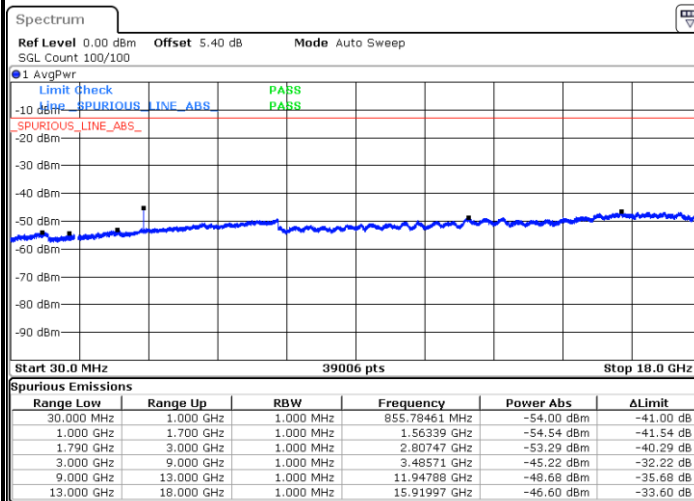
Date: 11.AUG.2020 05:41:01

Lowest Channel / 16QAM



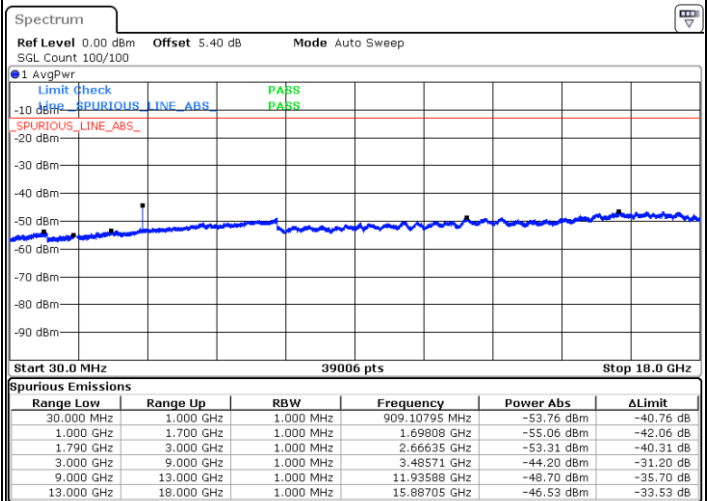
Date: 11.AUG.2020 05:49:47

Middle Channel / QPSK



Date: 11.AUG.2020 05:40:03

Middle Channel / 16QAM

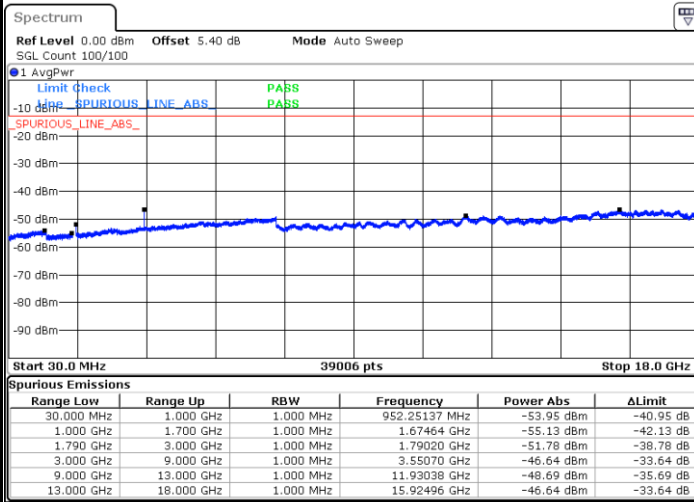


Date: 11.AUG.2020 05:39:23



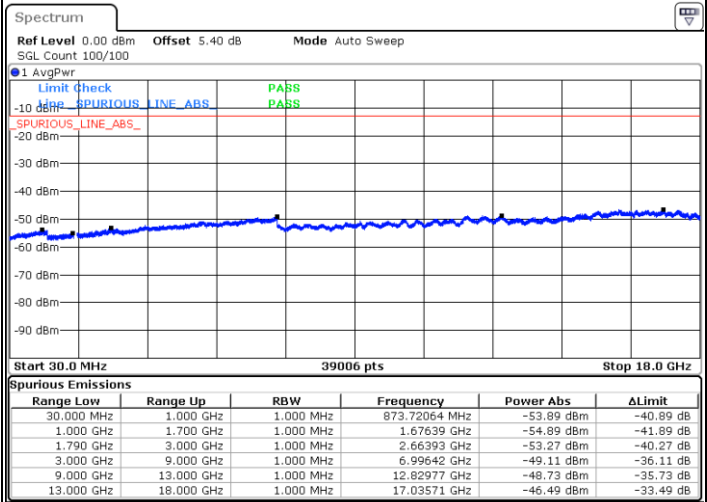
LTE Band 66 / 5MHz

Highest Channel / QPSK



Date: 11.AUG.2020 05:52:18

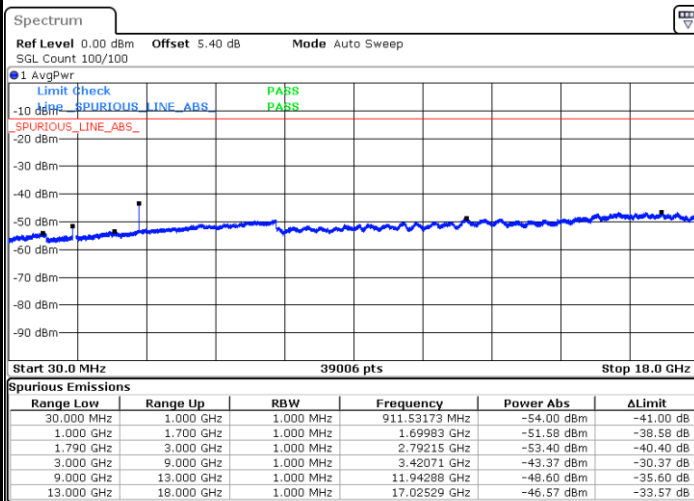
Highest Channel / 16QAM



Date: 11.AUG.2020 05:53:01

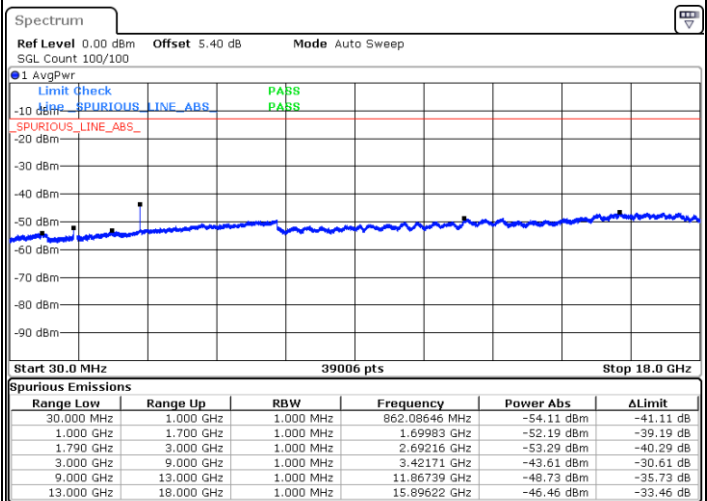
LTE Band 66 / 10MHz

Lowest Channel / QPSK



Date: 11.AUG.2020 06:06:28

Lowest Channel / 16QAM

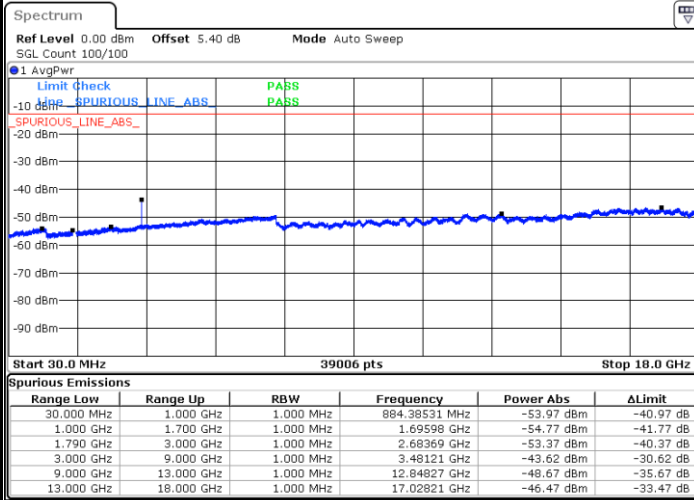


Date: 11.AUG.2020 06:05:27



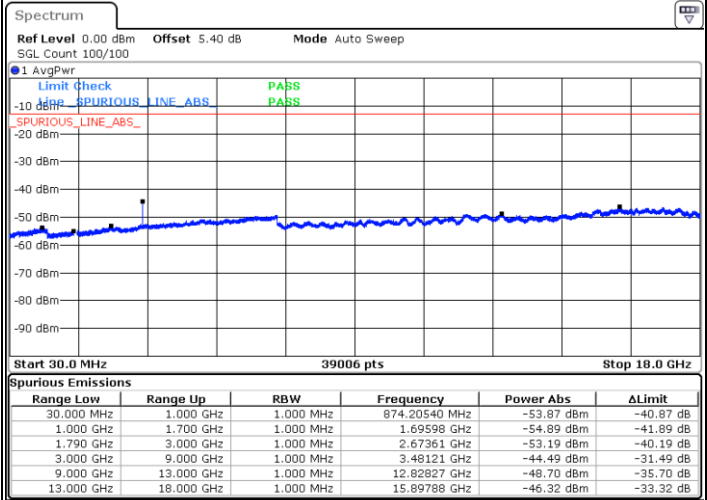
LTE Band 66 / 10MHz

Middle Channel / QPSK



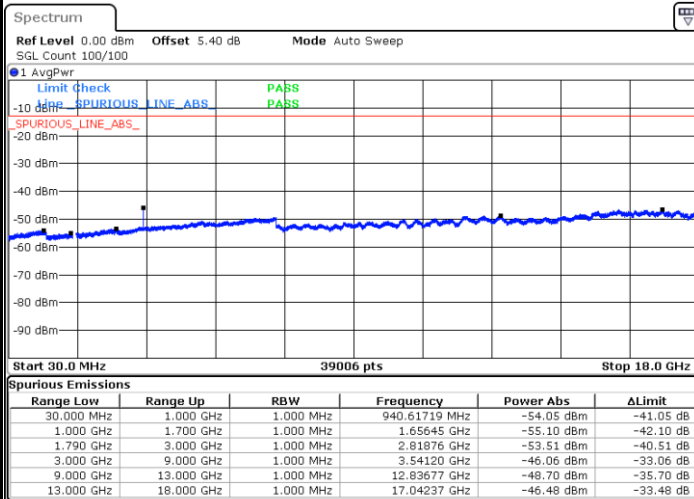
Date: 11.AUG.2020 06:00:24

Middle Channel / 16QAM



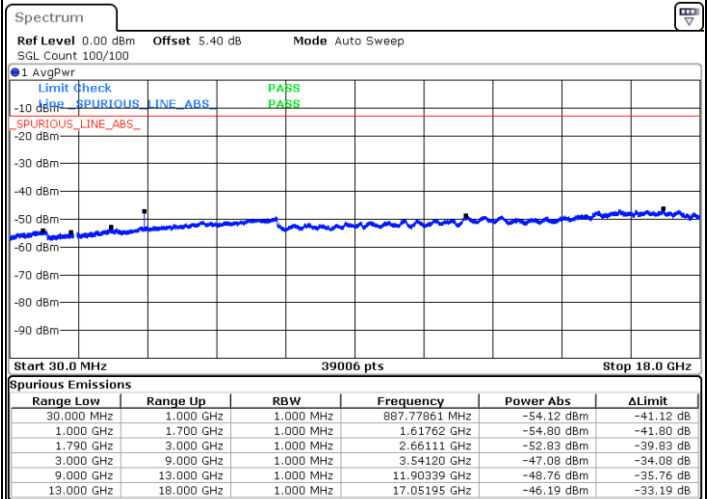
Date: 11.AUG.2020 06:01:07

Highest Channel / QPSK



Date: 11.AUG.2020 06:11:42

Highest Channel / 16QAM

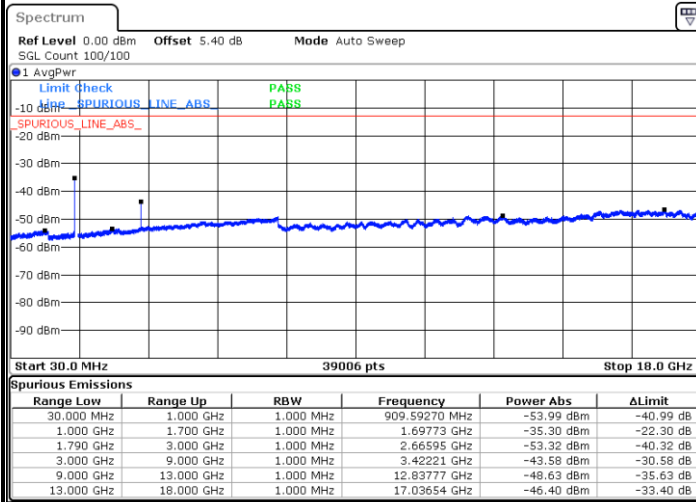


Date: 11.AUG.2020 06:12:29



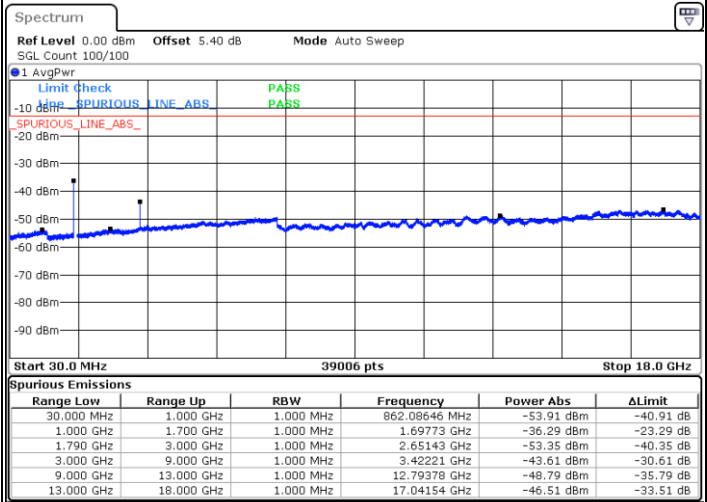
LTE Band 66 / 15MHz

Lowest Channel / QPSK



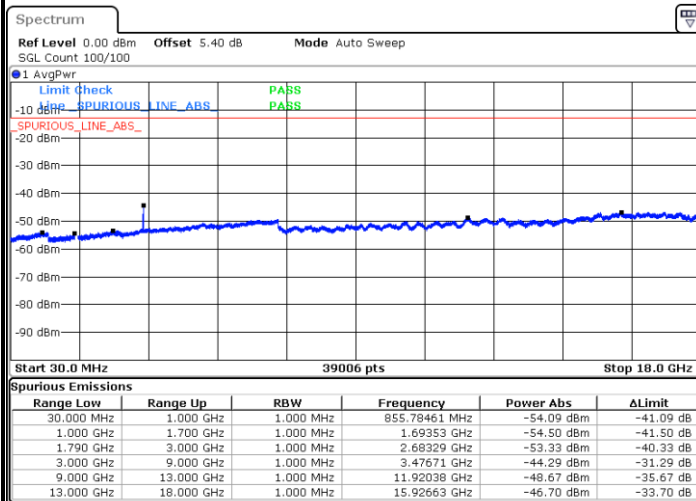
Date: 11.AUG.2020 06:21:09

Lowest Channel / 16QAM



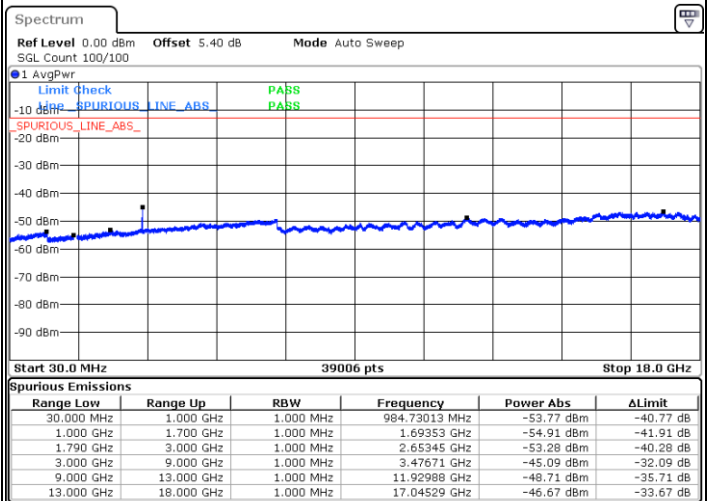
Date: 11.AUG.2020 06:23:17

Middle Channel / QPSK



Date: 11.AUG.2020 06:20:04

Middle Channel / 16QAM

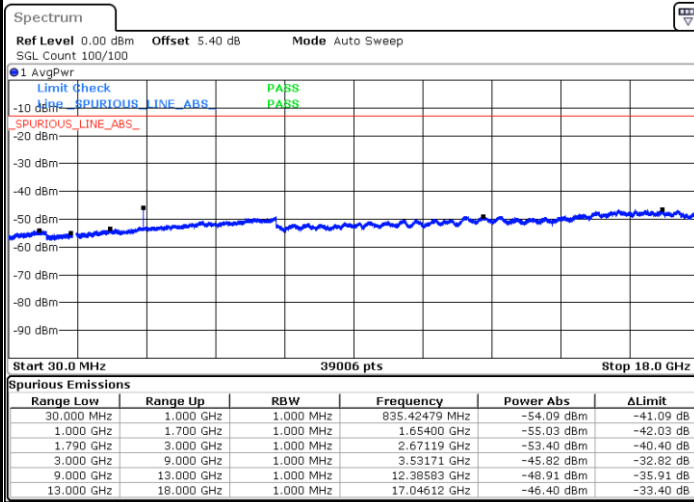


Date: 11.AUG.2020 06:19:02



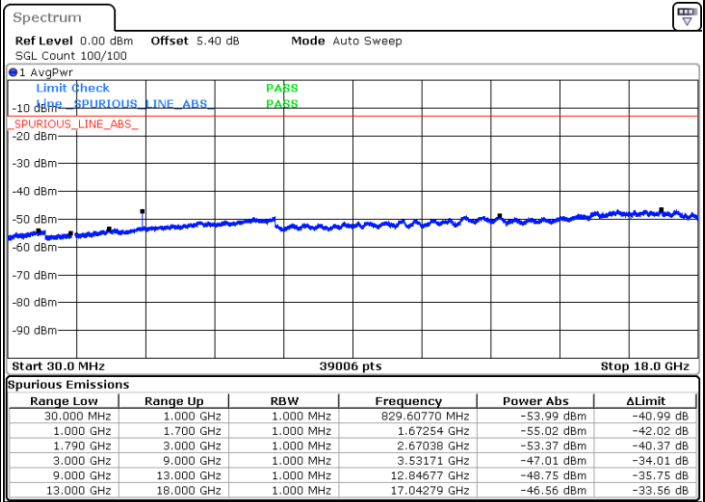
LTE Band 66 / 15MHz

Highest Channel / QPSK



Date: 11.AUG.2020 06:32:10

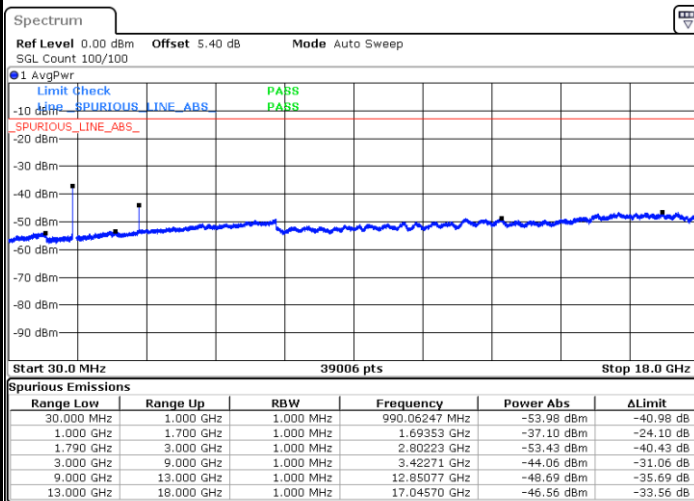
Highest Channel / 16QAM



Date: 11.AUG.2020 06:31:04

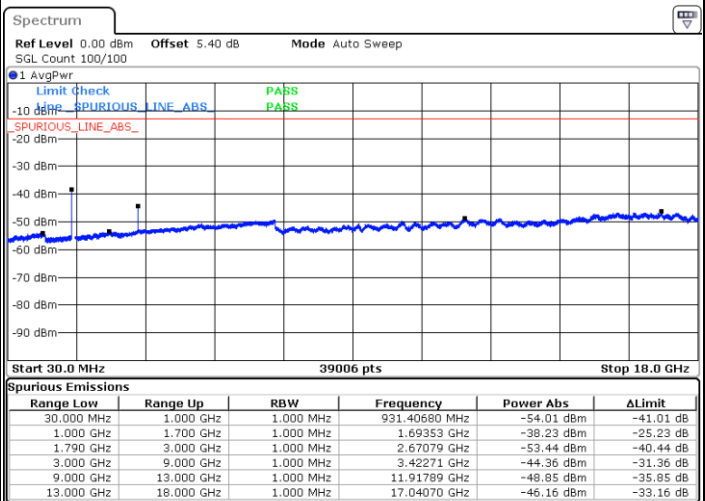
LTE Band 66 / 20MHz

Lowest Channel / QPSK



Date: 11.AUG.2020 06:44:05

Lowest Channel / 16QAM

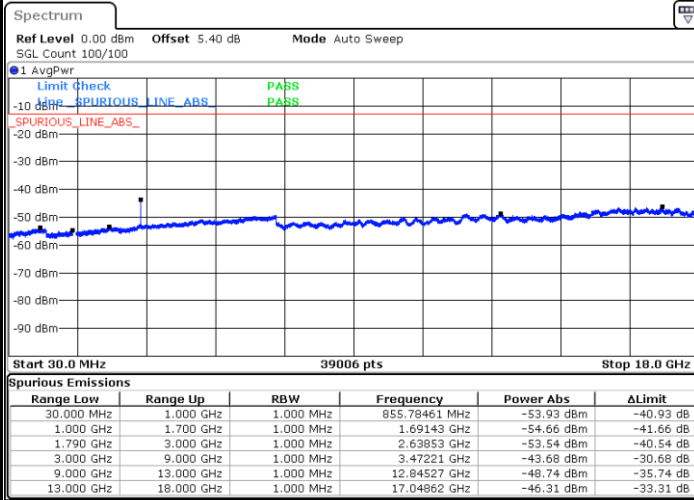


Date: 11.AUG.2020 06:41:38



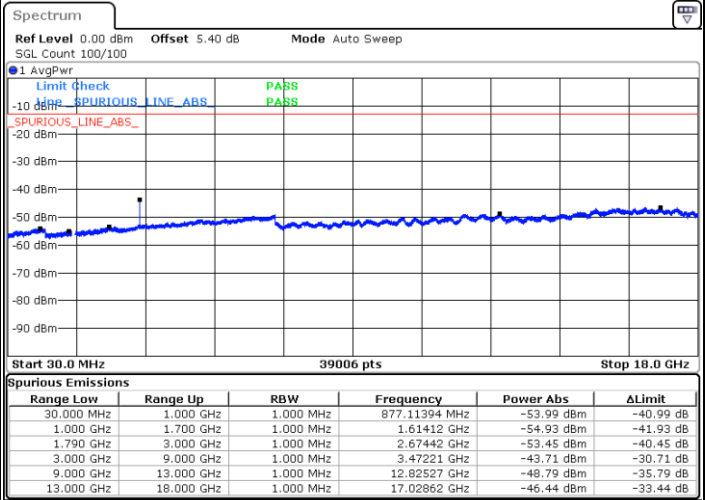
LTE Band 66 / 20MHz

Middle Channel / QPSK



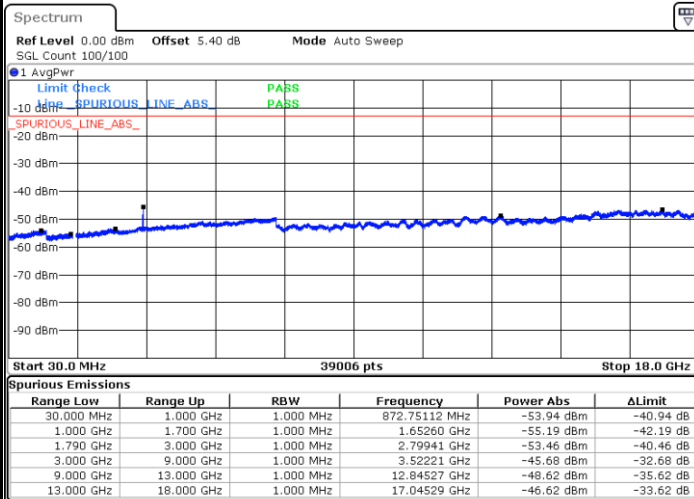
Date: 11.AUG.2020 06:36:31

Middle Channel / 16QAM



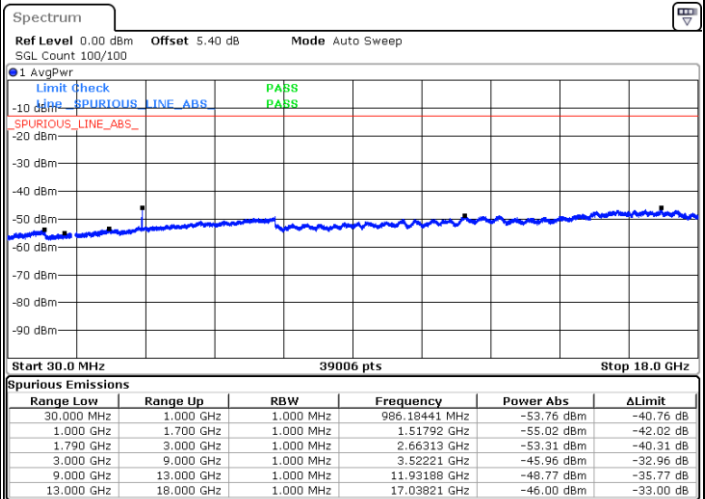
Date: 11.AUG.2020 06:37:33

Highest Channel / QPSK



Date: 11.AUG.2020 06:51:14

Highest Channel / 16QAM

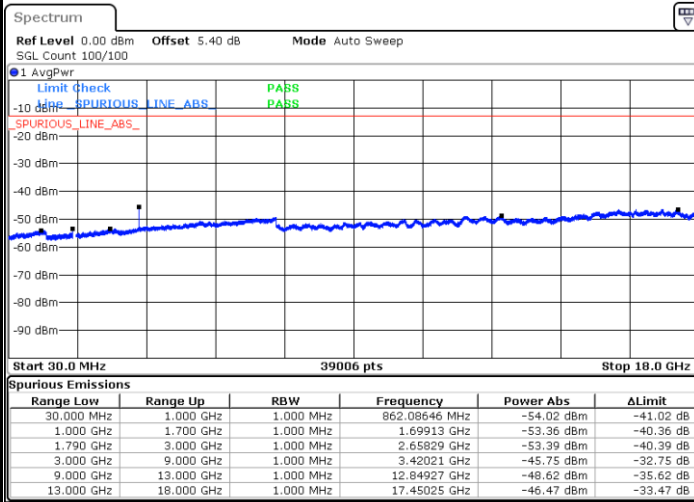


Date: 11.AUG.2020 06:52:24



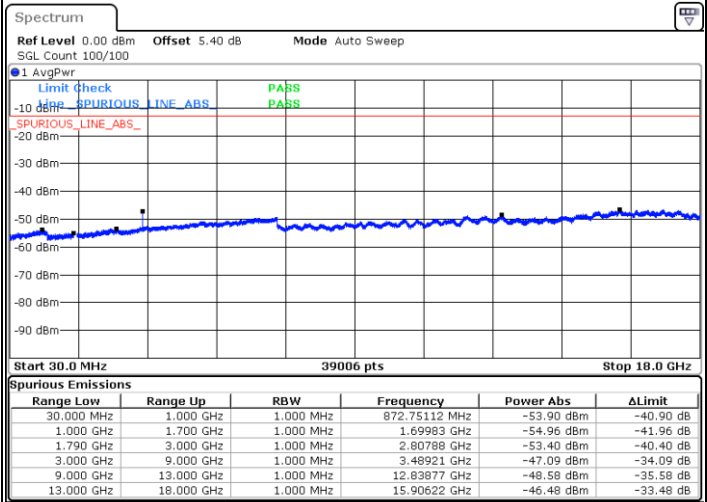
LTE Band 66 / 1.4MHz

Lowest Channel / 64QAM



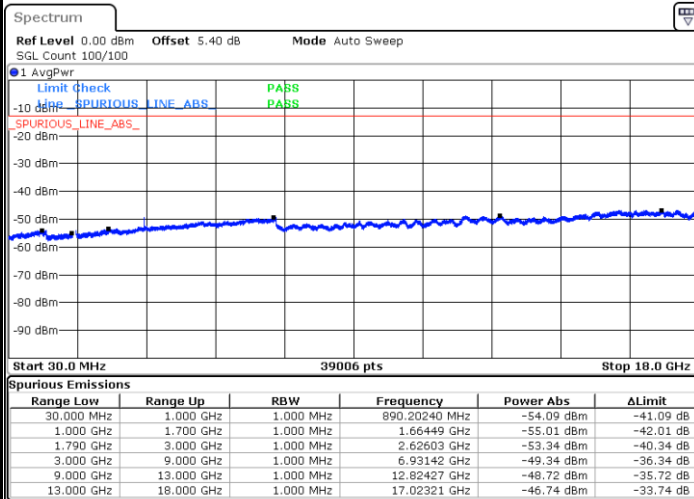
Date: 11.AUG.2020 07:43:19

Middle Channel / 64QAM



Date: 11.AUG.2020 07:34:07

Highest Channel / 64QAM

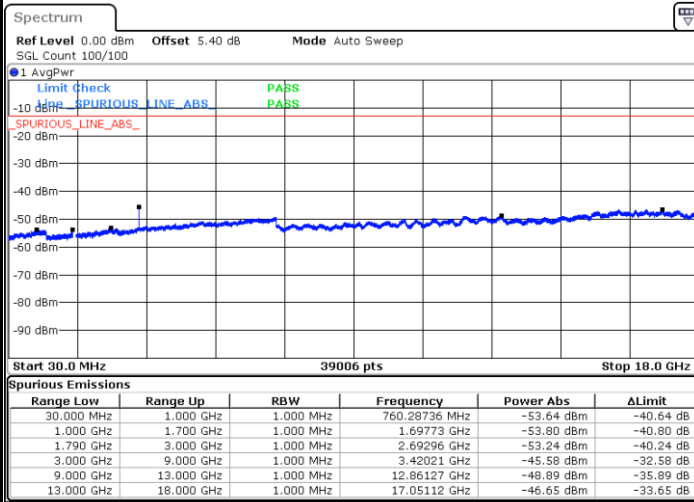


Date: 11.AUG.2020 07:59:53



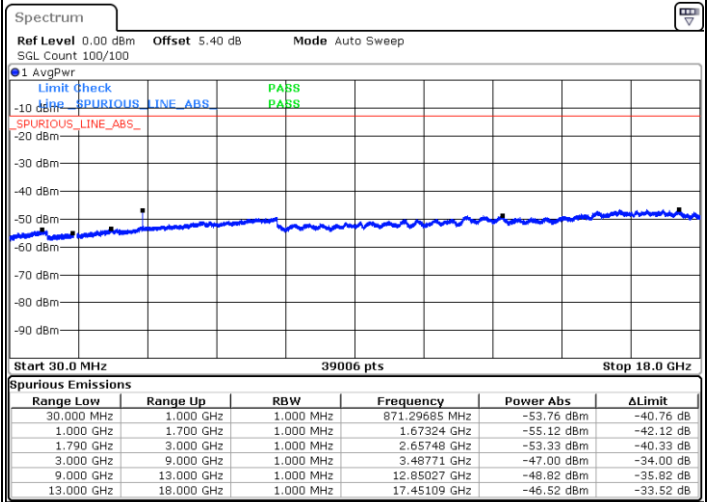
LTE Band 66 / 3MHz

Lowest Channel / 64QAM



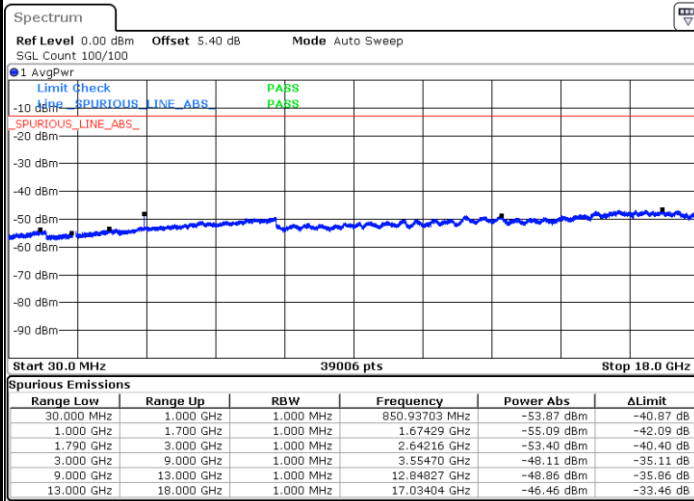
Date: 11.AUG.2020 07:15:58

Middle Channel / 64QAM



Date: 11.AUG.2020 07:07:03

Highest Channel / 64QAM

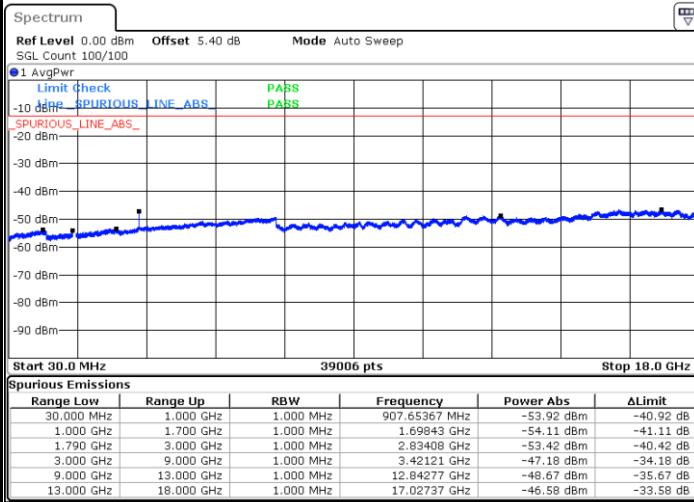


Date: 11.AUG.2020 07:24:09



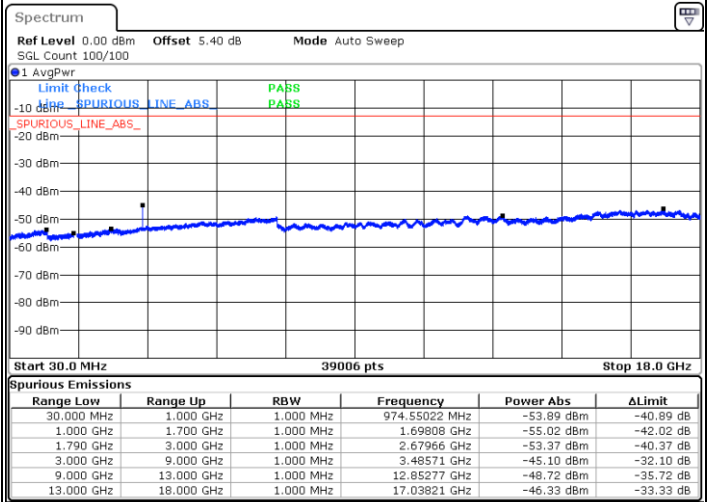
LTE Band 66 / 5MHz

Lowest Channel / 64QAM



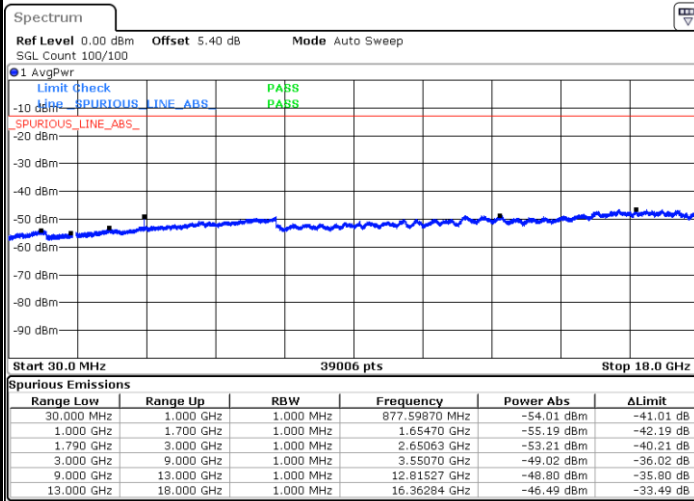
Date: 11.AUG.2020 05:48:31

Middle Channel / 64QAM



Date: 11.AUG.2020 05:37:28

Highest Channel / 64QAM

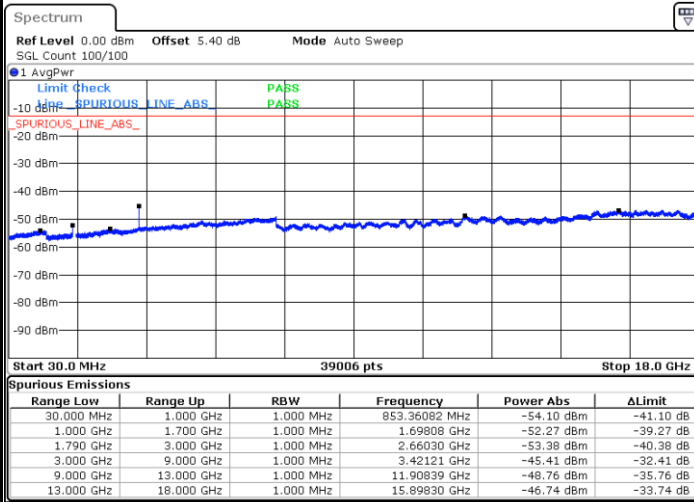


Date: 11.AUG.2020 05:53:57



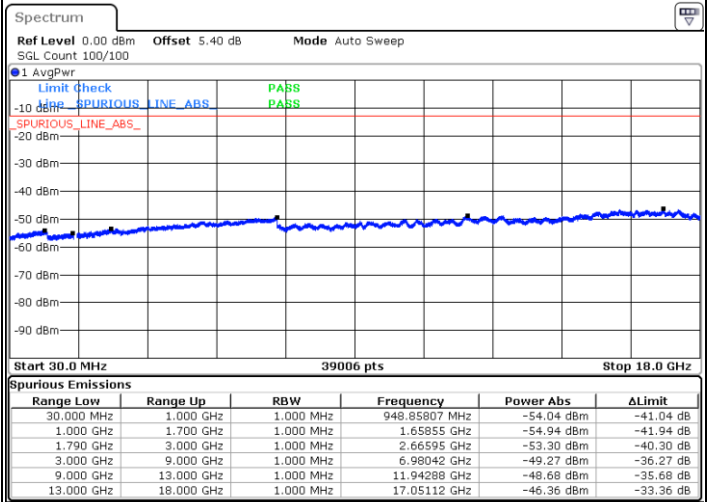
LTE Band 66 / 10MHz

Lowest Channel / 64QAM



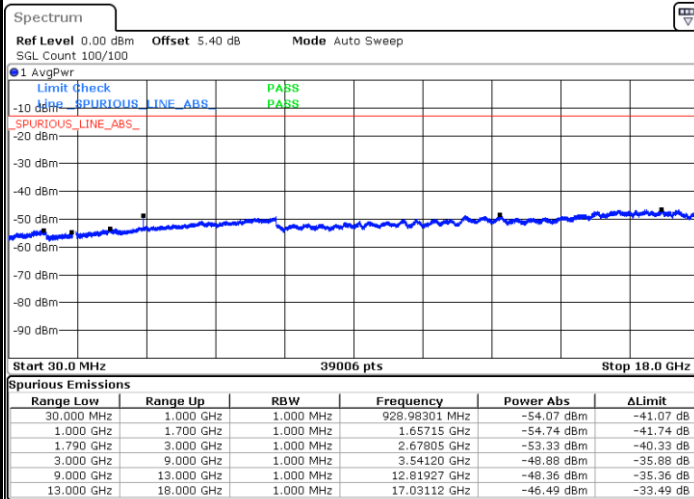
Date: 11.AUG.2020 06:04:28

Middle Channel / 64QAM



Date: 11.AUG.2020 06:02:24

Highest Channel / 64QAM

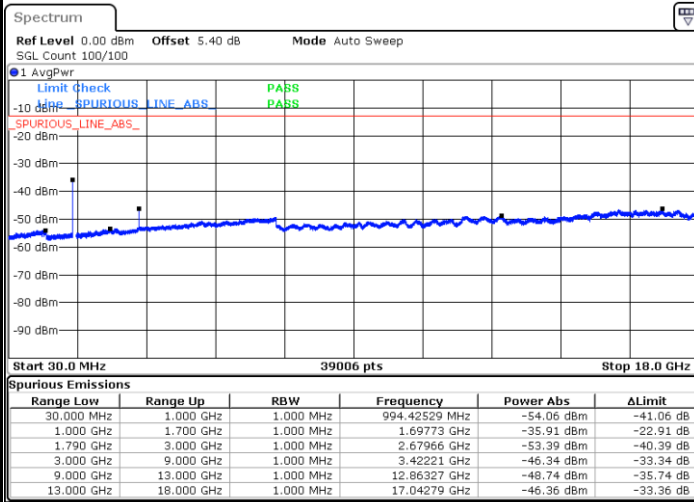


Date: 11.AUG.2020 06:13:08



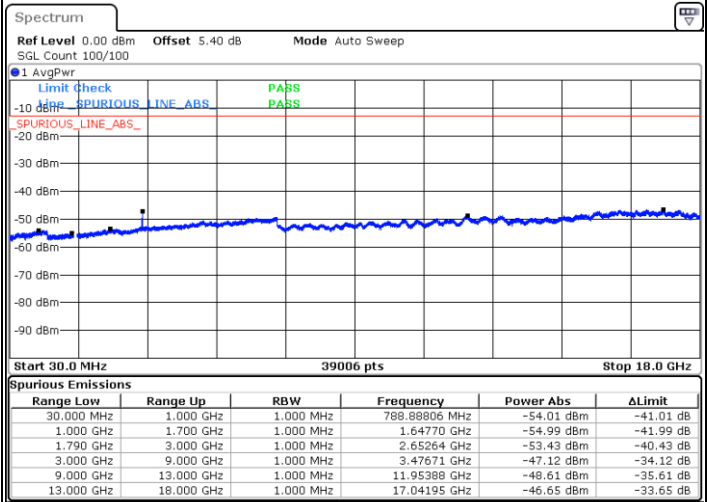
LTE Band 66 / 15MHz

Lowest Channel / 64QAM



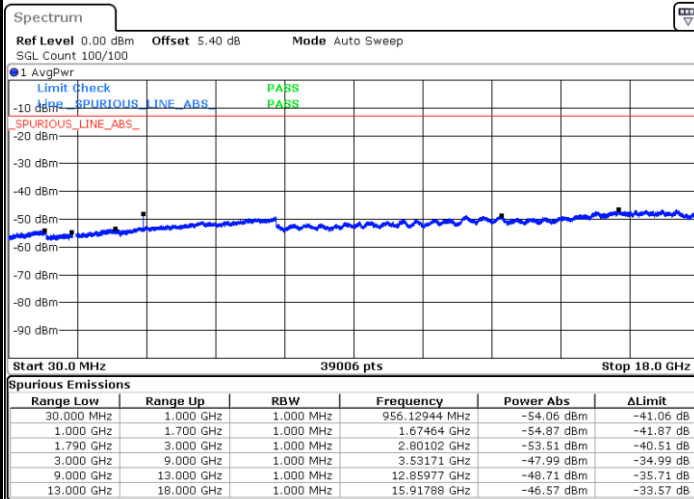
Date: 11.AUG.2020 06:24:48

Middle Channel / 64QAM



Date: 11.AUG.2020 06:18:17

Highest Channel / 64QAM

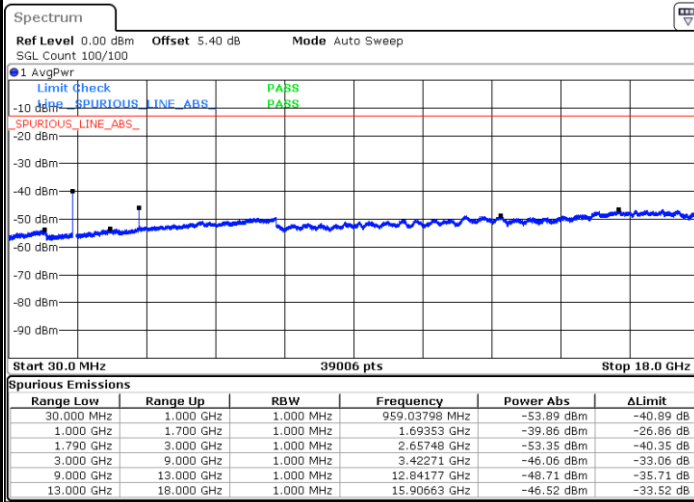


Date: 11.AUG.2020 06:29:47



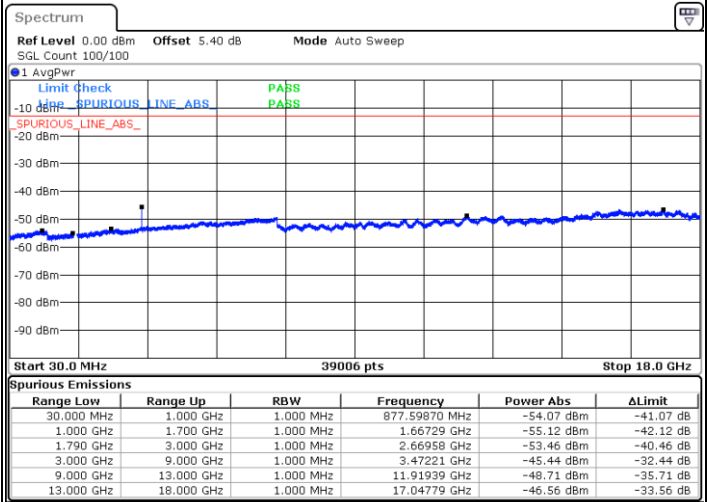
LTE Band 66 / 20MHz

Lowest Channel / 64QAM



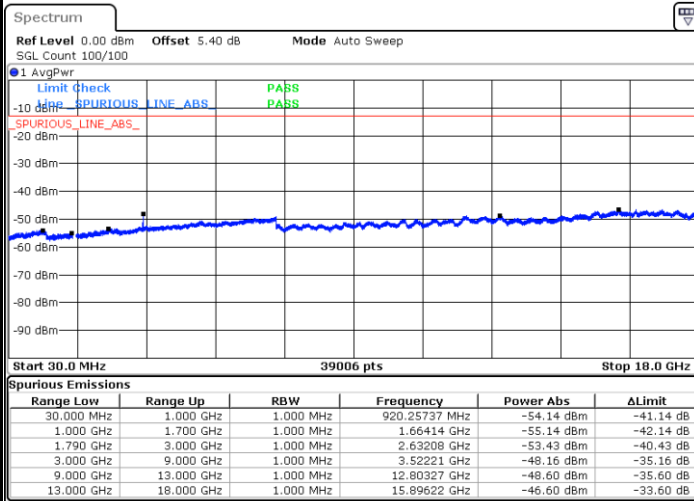
Date: 11.AUG.2020 06:40:50

Middle Channel / 64QAM



Date: 11.AUG.2020 06:38:37

Highest Channel / 64QAM



Date: 11.AUG.2020 06:53:50

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	0.0026	
30	Normal Voltage	0.0040	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0045	
20	Maximum Voltage	0.0058	
20	Normal Voltage	0.0051	
20	Battery End Point	0.0018	

Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 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)
Lowest	3702	-61.12	-13	-48.12	-73.38	2.641	14.90	H
	5553	-50.15	-13	-37.15	-62.01	2.94	14.80	H
	7404	-52.51	-13	-39.51	-62.28	3.39	13.16	H
	3702	-61.04	-13	-48.04	-73.30	2.64	14.90	V
	5553	-57.64	-13	-44.64	-69.50	2.94	14.80	V
	7404	-52.01	-13	-39.01	-61.78	3.39	13.16	V
Middle	3741	-60.66	-13	-47.66	-72.92	2.64	14.90	H
	5613	-55.32	-13	-42.32	-67.18	2.94	14.80	H
	7484	-51.24	-13	-38.24	-61.01	3.39	13.16	H
	3741	-61.06	-13	-48.06	-73.32	2.64	14.90	V
	5613	-55.62	-13	-42.62	-67.48	2.94	14.80	V
	7484	-51.32	-13	-38.32	-61.09	3.39	13.16	V
Highest	3783	-61.25	-13	-48.25	-73.51	2.64	14.90	H
	5673	-54.76	-13	-41.76	-66.62	2.94	14.80	H
	7560	-51.69	-13	-38.69	-61.46	3.39	13.16	H
	3783	-61.19	-13	-48.19	-73.45	2.64	14.90	V
	5673	-56.75	-13	-43.75	-68.61	2.94	14.80	V
	7560	-51.60	-13	-38.60	-61.37	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)
Lowest	1650	-64.70	-13	-51.70	-71.67	1.58	10.70	H
	2474	-56.88	-13	-43.88	-65.13	2.102	12.50	H
	3300	-63.79	-13	-50.79	-72.68	2.856	13.90	H
	1650	-66.64	-13	-53.64	-73.61	1.58	10.70	V
	2474	-65.07	-13	-52.07	-73.32	2.10	12.50	V
	3300	-63.64	-13	-50.64	-72.53	2.86	13.90	V
Middle	1664	-64.94	-13	-51.94	-71.91	1.58	10.70	H
	2496	-56.73	-13	-43.73	-64.98	2.102	12.50	H
	3330	-63.34	-13	-50.34	-72.23	2.856	13.90	H
	1664	-64.11	-13	-51.11	-71.08	1.58	10.70	V
	2496	-54.31	-13	-41.31	-62.56	2.10	12.50	V
	3330	-63.78	-13	-50.78	-72.67	2.86	13.90	V
Highest	1680	-66.33	-13	-53.33	-73.30	1.58	10.70	H
	2518	-52.45	-13	-39.45	-60.70	2.102	12.50	H
	3360	-63.75	-13	-50.75	-72.64	2.856	13.90	H
	1680	-66.99	-13	-53.99	-73.96	1.58	10.70	V
	2518	-50.49	-13	-37.49	-58.74	2.10	12.50	V
	3360	-63.79	-13	-50.79	-72.68	2.86	13.90	V

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

LTE Band 13 / 5MHz / 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	1554	-67.41	-13	-54.41	-70.04	1.09	5.87	H
	2332	-66.28	-13	-53.28	-68.68	1.37	5.92	H
	3108	-63.84	-13	-50.84	-67.73	1.64	7.68	H
	1554	-67.08	-13	-54.08	-69.71	1.09	5.87	V
	2332	-66.21	-13	-53.21	-68.61	1.37	5.92	V
	3108	-63.99	-13	-50.99	-67.88	1.64	7.68	V
Middle	1560	-67.94	-42.15	-25.79	-70.57	1.09	5.87	H
	2340	-66.47	-13	-53.47	-68.87	1.37	5.92	H
	3120	-63.67	-13	-50.67	-67.56	1.64	7.68	H
	1560	-67.62	-42.15	-25.47	-70.25	1.09	5.87	V
	2340	-66.16	-13	-53.16	-68.56	1.37	5.92	V
	3120	-64.02	-13	-51.02	-67.91	1.64	7.68	V
Highest	1564	-67.97	-42.15	-25.82	-70.60	1.09	5.87	H
	2348	-66.59	-13	-53.59	-68.99	1.37	5.92	H
	3132	-64.53	-13	-51.53	-68.42	1.64	7.68	H
	1564	-67.91	-42.15	-25.76	-70.54	1.09	5.87	V
	2348	-66.47	-13	-53.47	-68.87	1.37	5.92	V
	3132	-64.48	-13	-51.48	-68.37	1.64	7.68	V

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

LTE Band 13 / 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	1556	-67.11	-13	-54.11	-69.74	1.09	5.87	H
	2332	-66.52	-13	-53.52	-68.92	1.37	5.92	H
	3108	-63.73	-13	-50.73	-67.62	1.64	7.68	H
	1556	-66.84	-13	-53.84	-69.47	1.09	5.87	V
	2332	-66.04	-13	-53.04	-68.44	1.37	5.92	V
	3108	-64.20	-13	-51.20	-68.09	1.64	7.68	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)
Lowest	3423	-61.78	-13	-48.78	-72.52	2.604	13.34	H
	5133	-57.63	-13	-44.63	-68.14	3.011	13.52	H
	6840	-53.63	-13	-40.63	-63.83	3.271	13.47	H
	3423	-61.72	-13	-48.72	-72.46	2.604	13.34	V
	5133	-57.72	-13	-44.72	-68.23	3.011	13.52	V
	6840	-54.27	-13	-41.27	-64.47	3.271	13.47	V
Middle	3471	-61.65	-13	-48.65	-72.39	2.604	13.34	H
	5208	-57.14	-13	-44.14	-67.65	3.011	13.52	H
	6948	-54.18	-13	-41.18	-64.38	3.271	13.47	H
	3471	-61.79	-13	-48.79	-72.53	2.604	13.34	V
	5208	-57.97	-13	-44.97	-68.48	3.011	13.52	V
	6948	-53.65	-13	-40.65	-63.85	3.271	13.47	V
Highest	3522	-61.74	-13	-48.74	-72.48	2.604	13.34	H
	5283	-56.02	-13	-43.02	-66.53	3.011	13.52	H
	7044	-53.83	-13	-40.83	-64.03	3.271	13.47	H
	3522	-61.70	-13	-48.70	-72.44	2.604	13.34	V
	5283	-57.58	-13	-44.58	-68.09	3.011	13.52	V
	7044	-53.30	-13	-40.30	-63.50	3.271	13.47	V

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