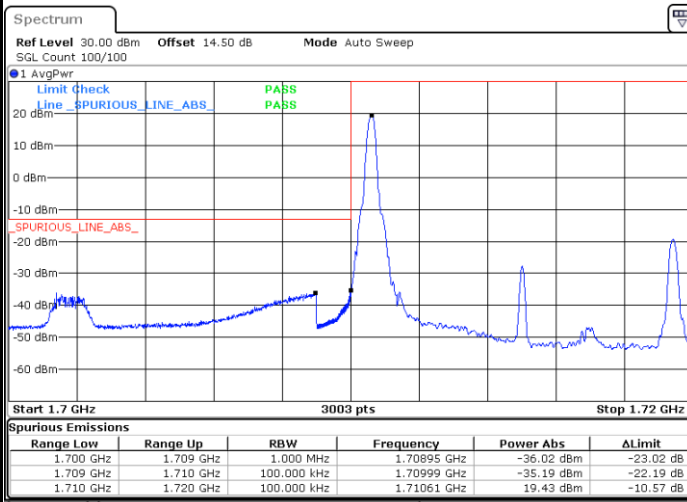




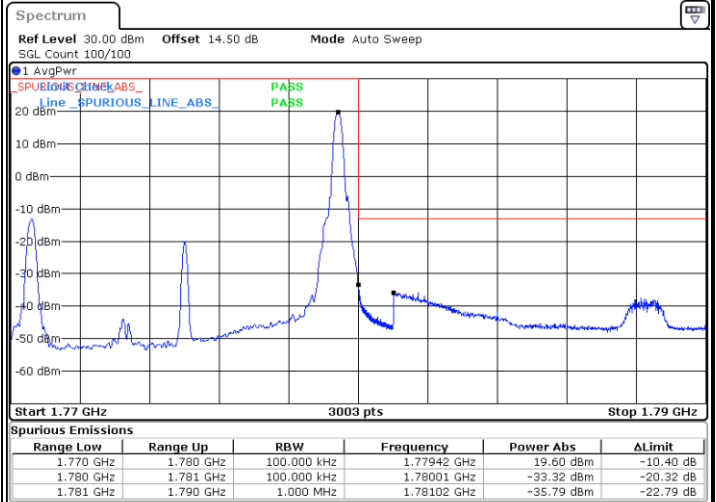
LTE Band 66 / 10MHz / QPSK

Lowest Band Edge / 1 RB



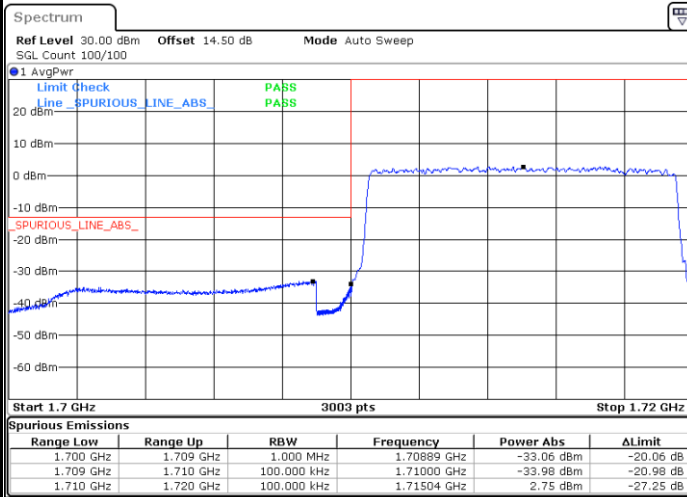
Date: 19.NOV.2020 11:37:58

Highest Band Edge / 1 RB



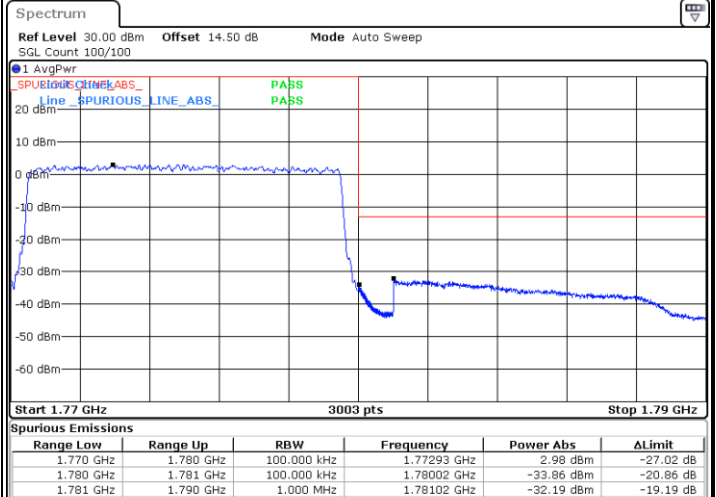
Date: 19.NOV.2020 11:47:13

Lowest Band Edge / Full RB



Date: 19.NOV.2020 11:33:22

Highest Band Edge / Full RB

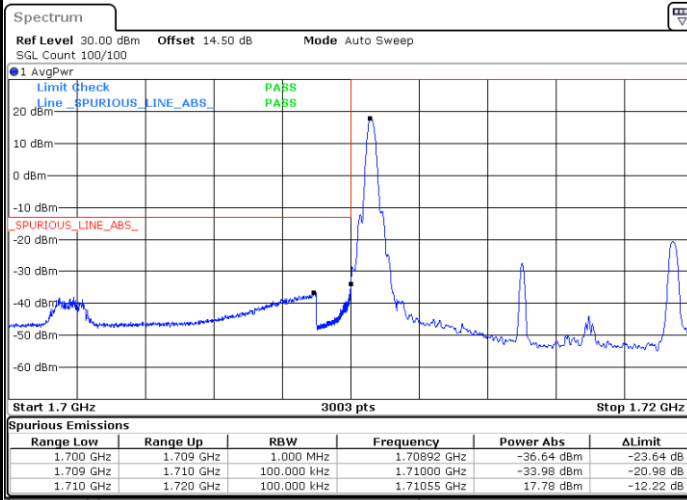


Date: 19.NOV.2020 11:51:36



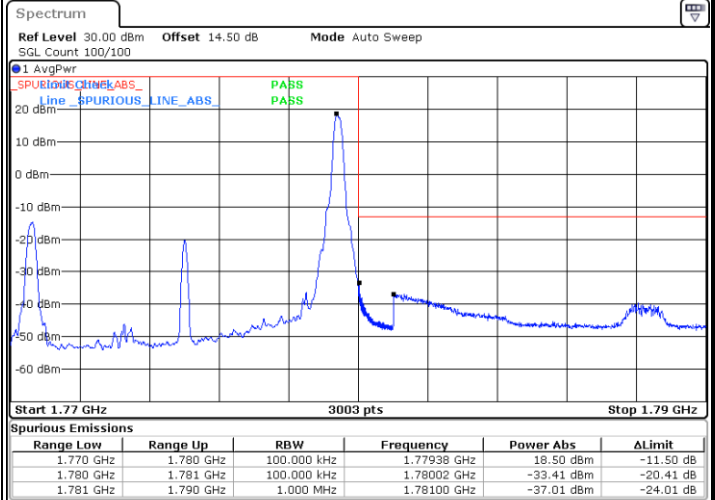
LTE Band 66 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



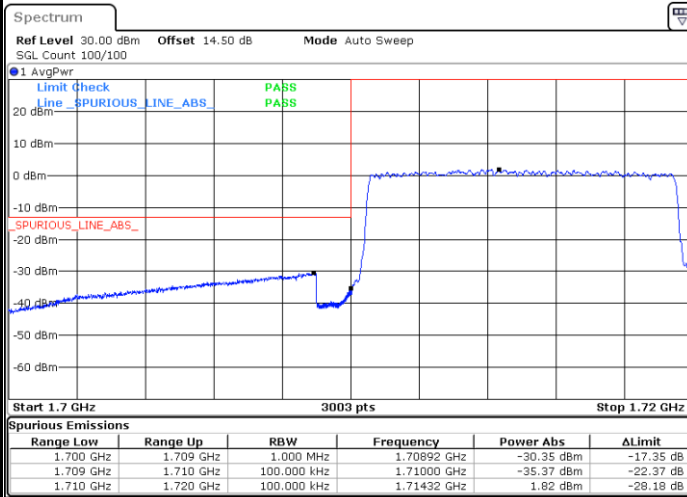
Date: 19.NOV.2020 11:36:41

Highest Band Edge / 1 RB



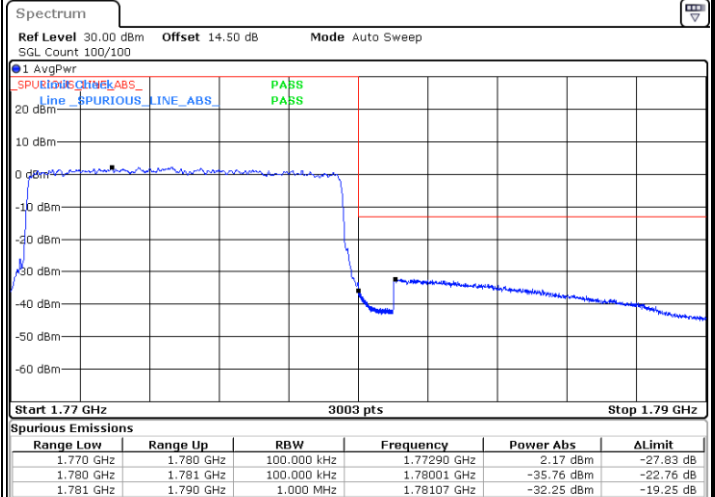
Date: 19.NOV.2020 11:47:34

Lowest Band Edge / Full RB



Date: 19.NOV.2020 11:34:10

Highest Band Edge / Full RB

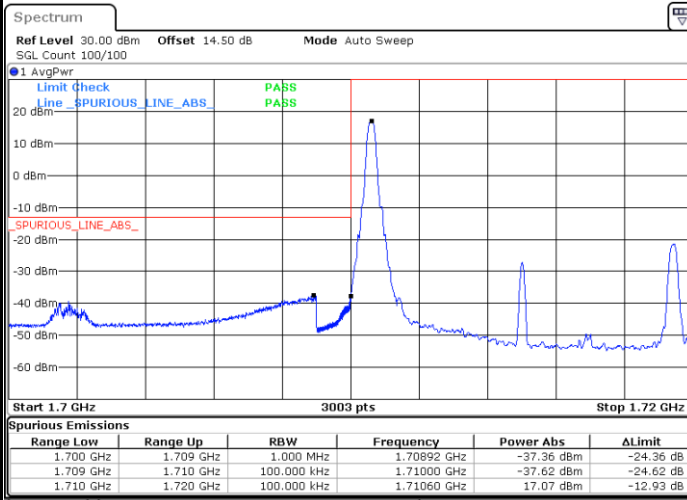


Date: 19.NOV.2020 11:44:49



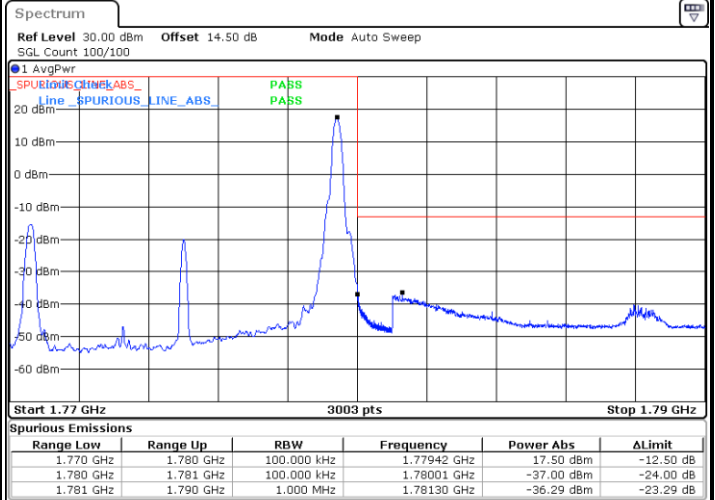
LTE Band 66 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



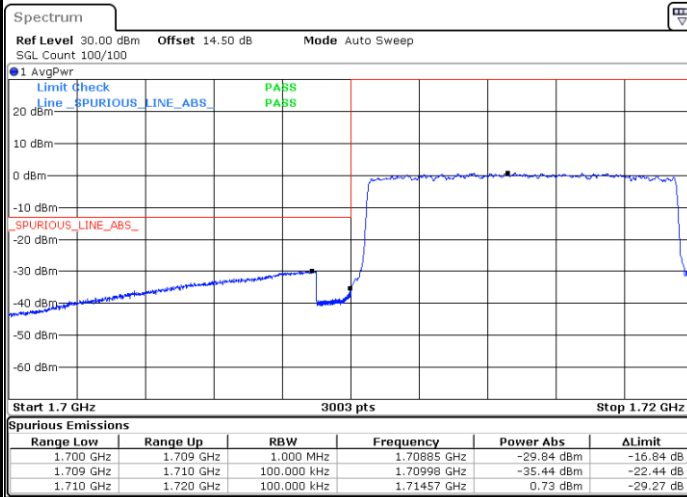
Date: 19.NOV.2020 11:35:18

Highest Band Edge / 1 RB



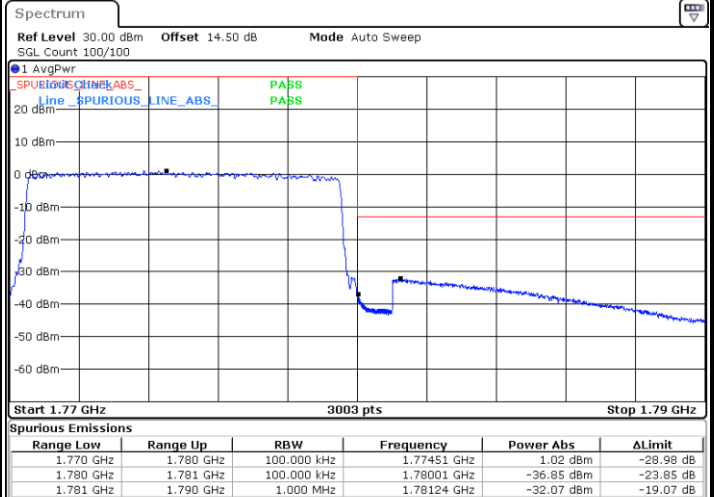
Date: 19.NOV.2020 11:48:21

Lowest Band Edge / Full RB



Date: 19.NOV.2020 11:34:52

Highest Band Edge / Full RB

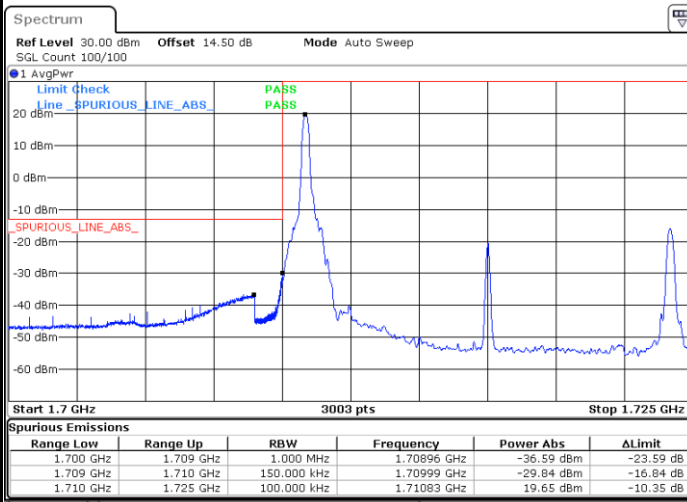


Date: 19.NOV.2020 11:50:22



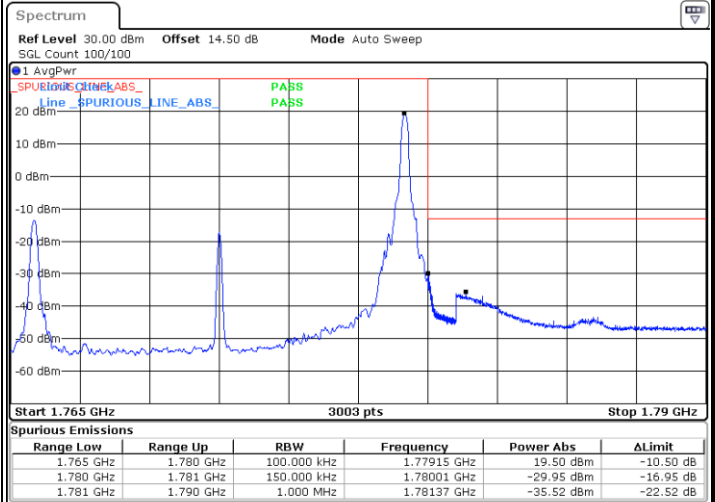
LTE Band 66 / 15MHz / QPSK

Lowest Band Edge / 1 RB



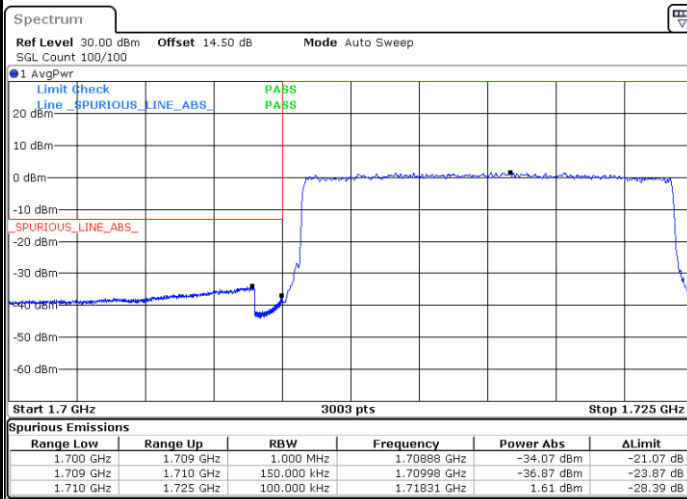
Date: 19.NOV.2020 14:25:23

Highest Band Edge / 1 RB



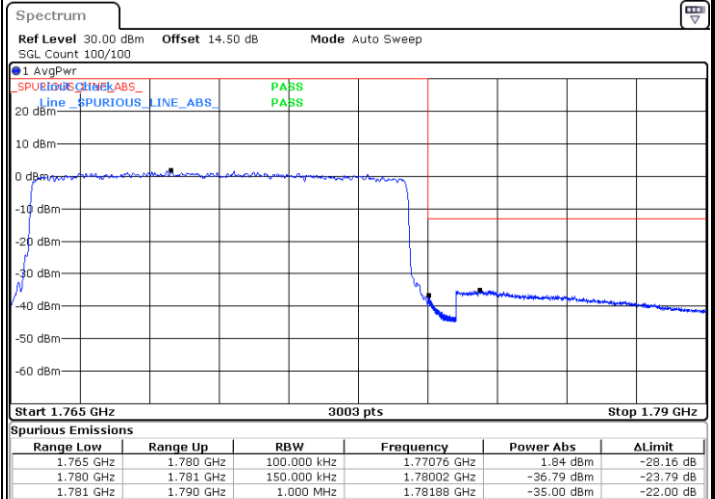
Date: 19.NOV.2020 14:18:31

Lowest Band Edge / Full RB



Date: 19.NOV.2020 13:52:03

Highest Band Edge / Full RB

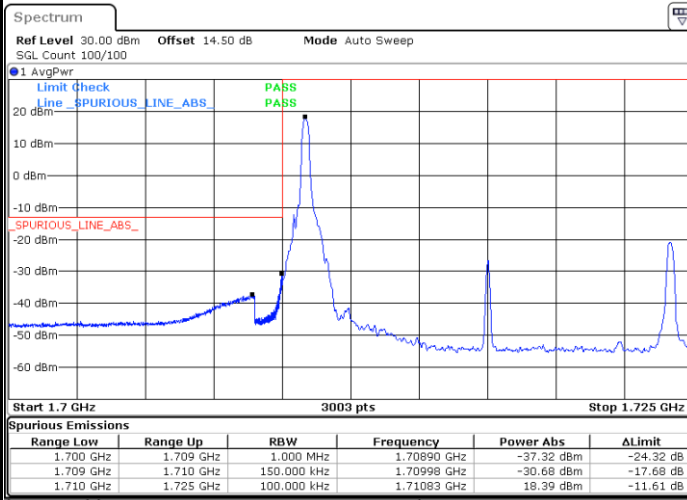


Date: 19.NOV.2020 14:12:38



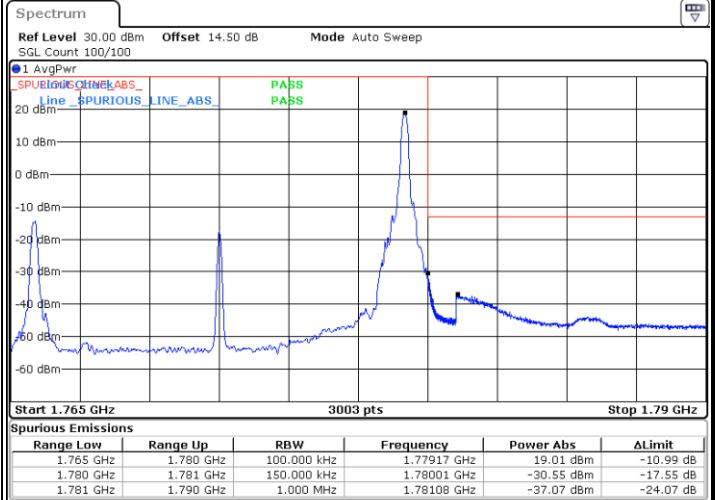
LTE Band 66 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



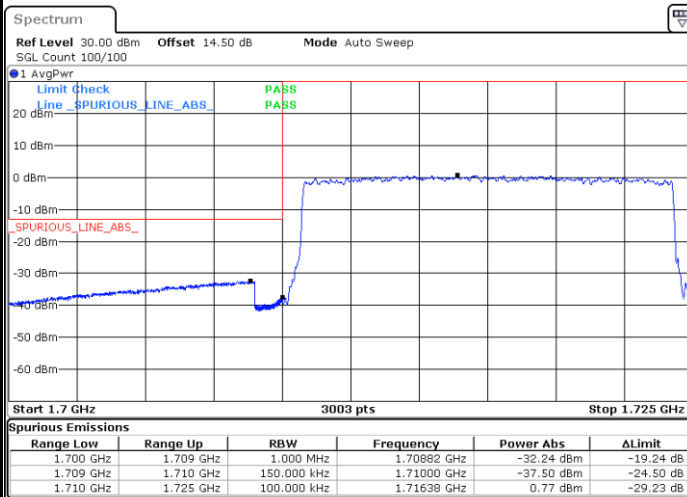
Date: 19.NOV.2020 14:21:37

Highest Band Edge / 1 RB



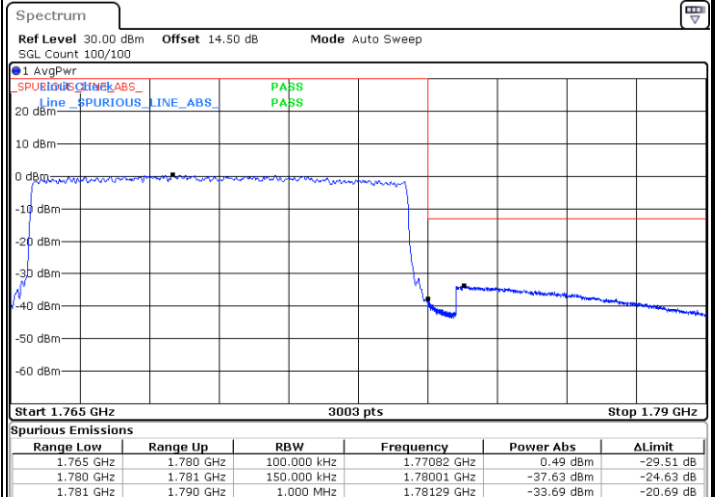
Date: 19.NOV.2020 14:18:43

Lowest Band Edge / Full RB



Date: 19.NOV.2020 13:53:17

Highest Band Edge / Full RB

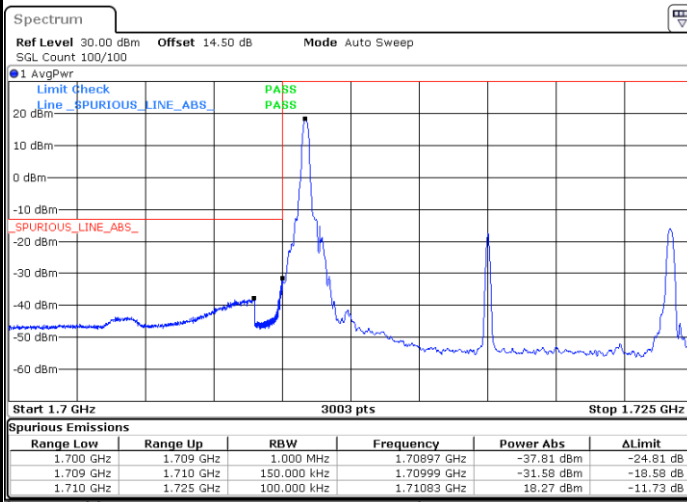


Date: 19.NOV.2020 14:13:33



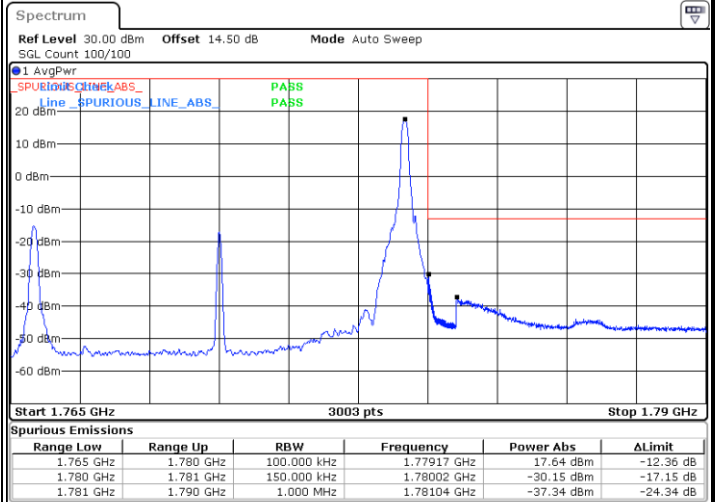
LTE Band 66 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



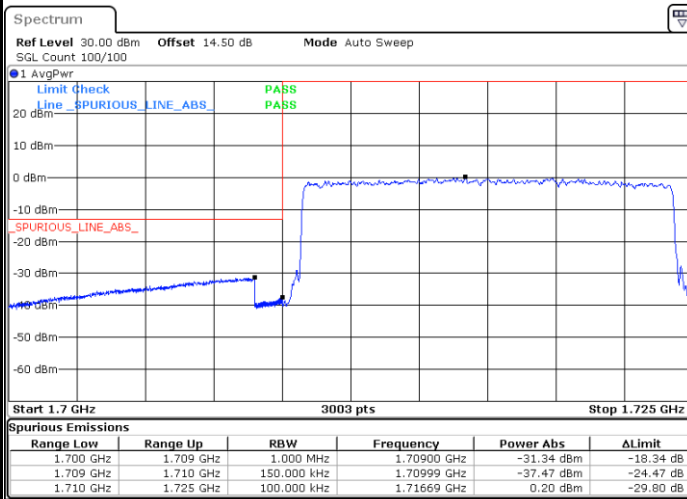
Date: 19.NOV.2020 14:20:50

Highest Band Edge / 1 RB



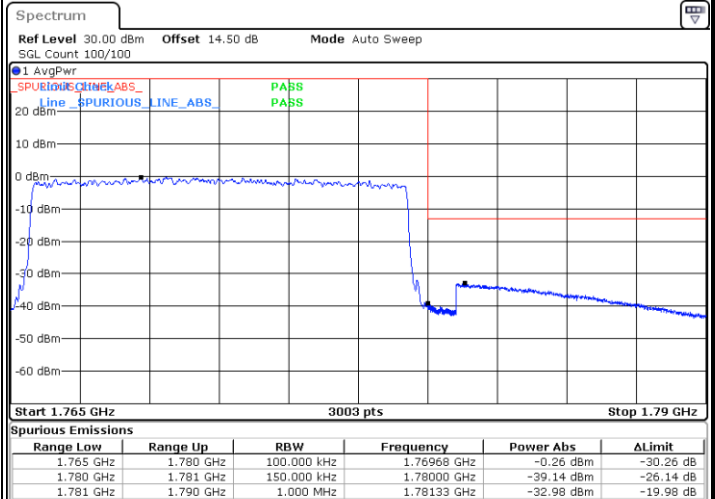
Date: 19.NOV.2020 14:19:06

Lowest Band Edge / Full RB



Date: 19.NOV.2020 13:56:18

Highest Band Edge / Full RB

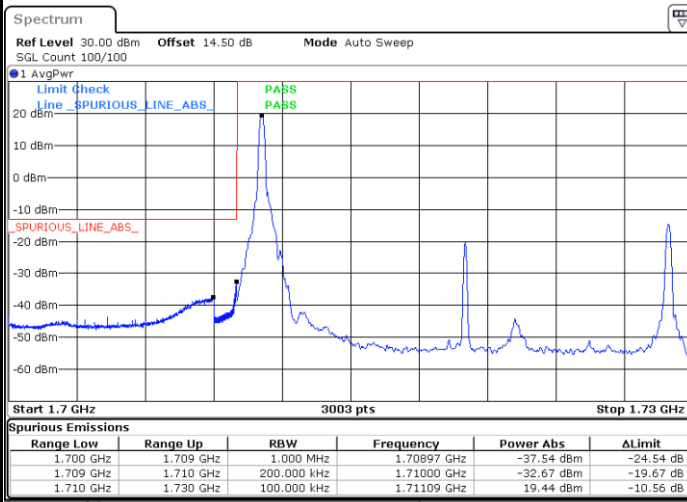


Date: 19.NOV.2020 14:14:10



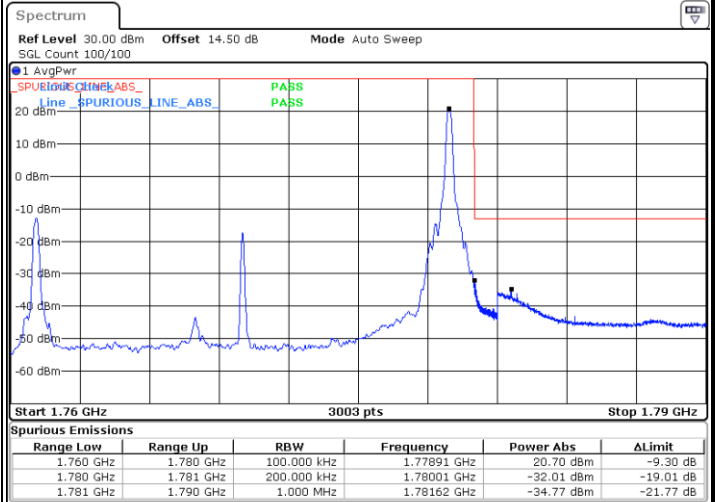
LTE Band 66 / 20MHz / QPSK

Lowest Band Edge / 1 RB



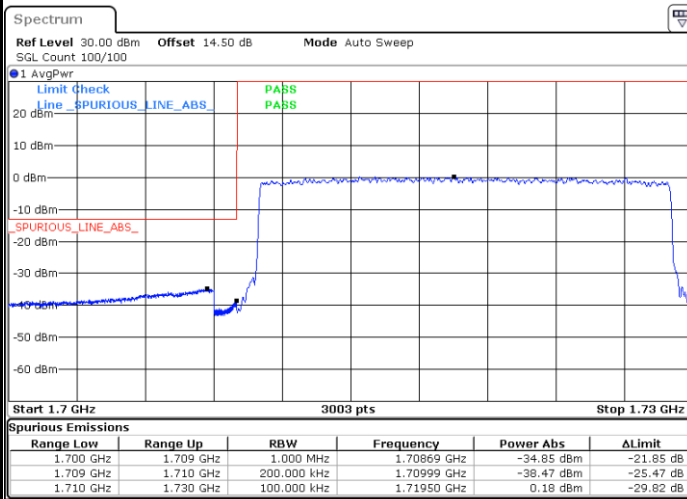
Date: 19.NOV.2020 14:31:29

Highest Band Edge / 1 RB



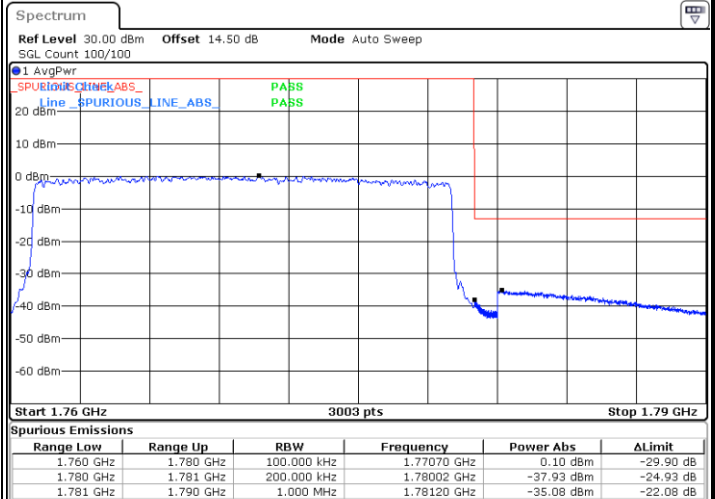
Date: 19.NOV.2020 15:20:46

Lowest Band Edge / Full RB



Date: 19.NOV.2020 14:26:26

Highest Band Edge / Full RB

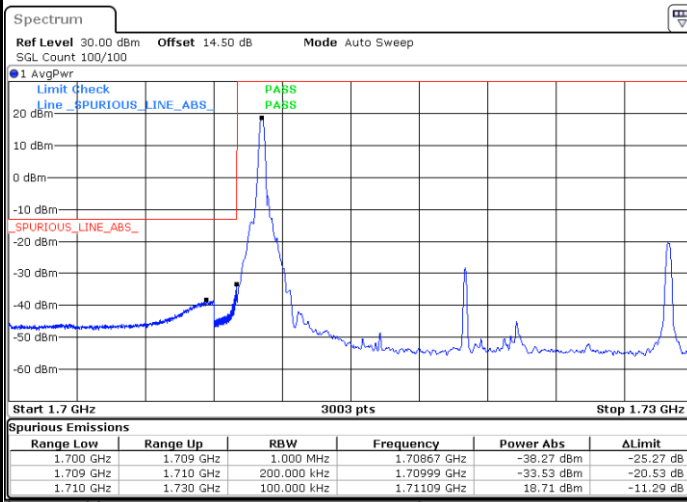


Date: 19.NOV.2020 15:02:12



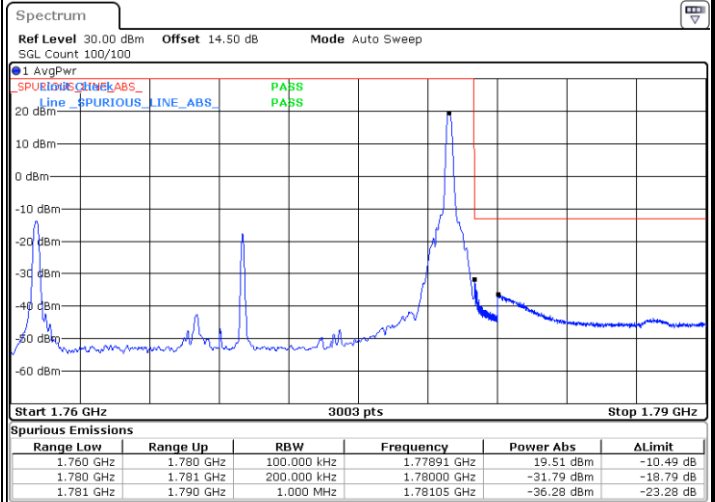
LTE Band 66 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



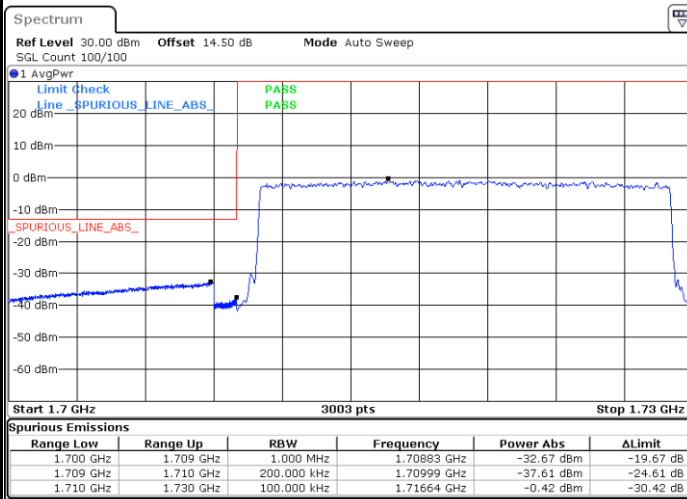
Date: 19.NOV.2020 14:30:04

Highest Band Edge / 1 RB



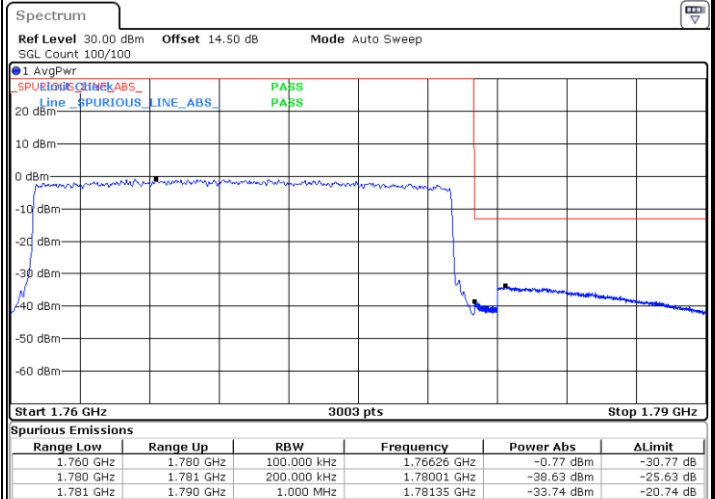
Date: 19.NOV.2020 15:22:06

Lowest Band Edge / Full RB



Date: 19.NOV.2020 14:27:12

Highest Band Edge / Full RB

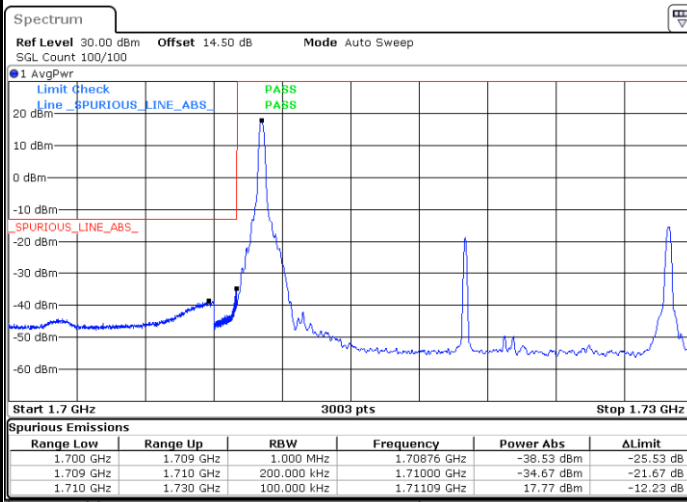


Date: 19.NOV.2020 15:04:28



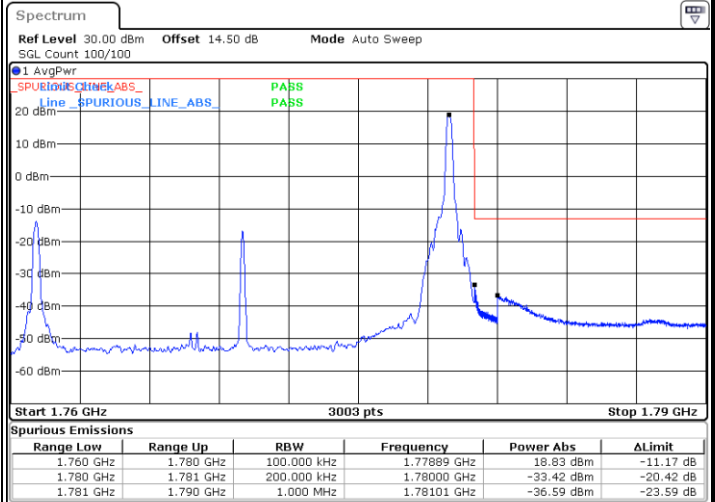
LTE Band 66 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



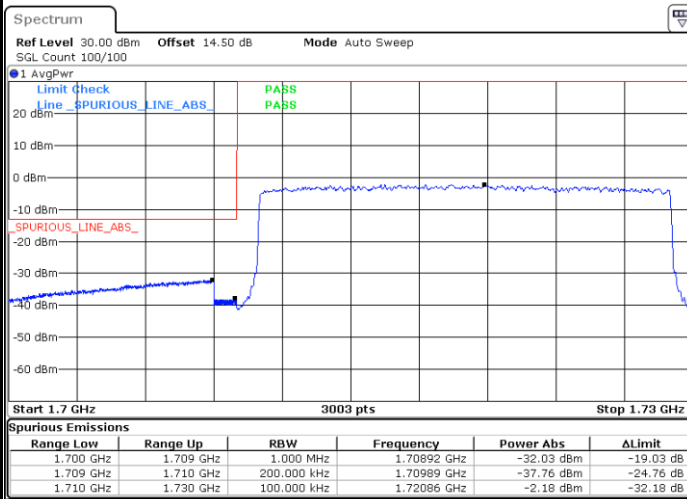
Date: 19.NOV.2020 14:28:04

Highest Band Edge / 1 RB



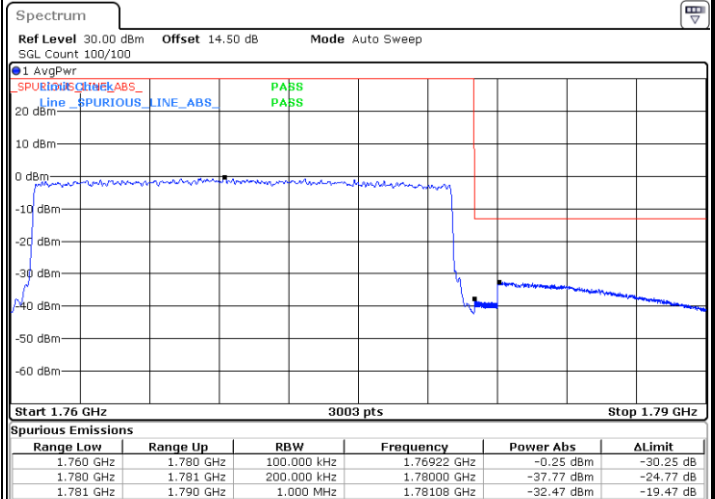
Date: 19.NOV.2020 15:22:29

Lowest Band Edge / Full RB



Date: 19.NOV.2020 14:27:48

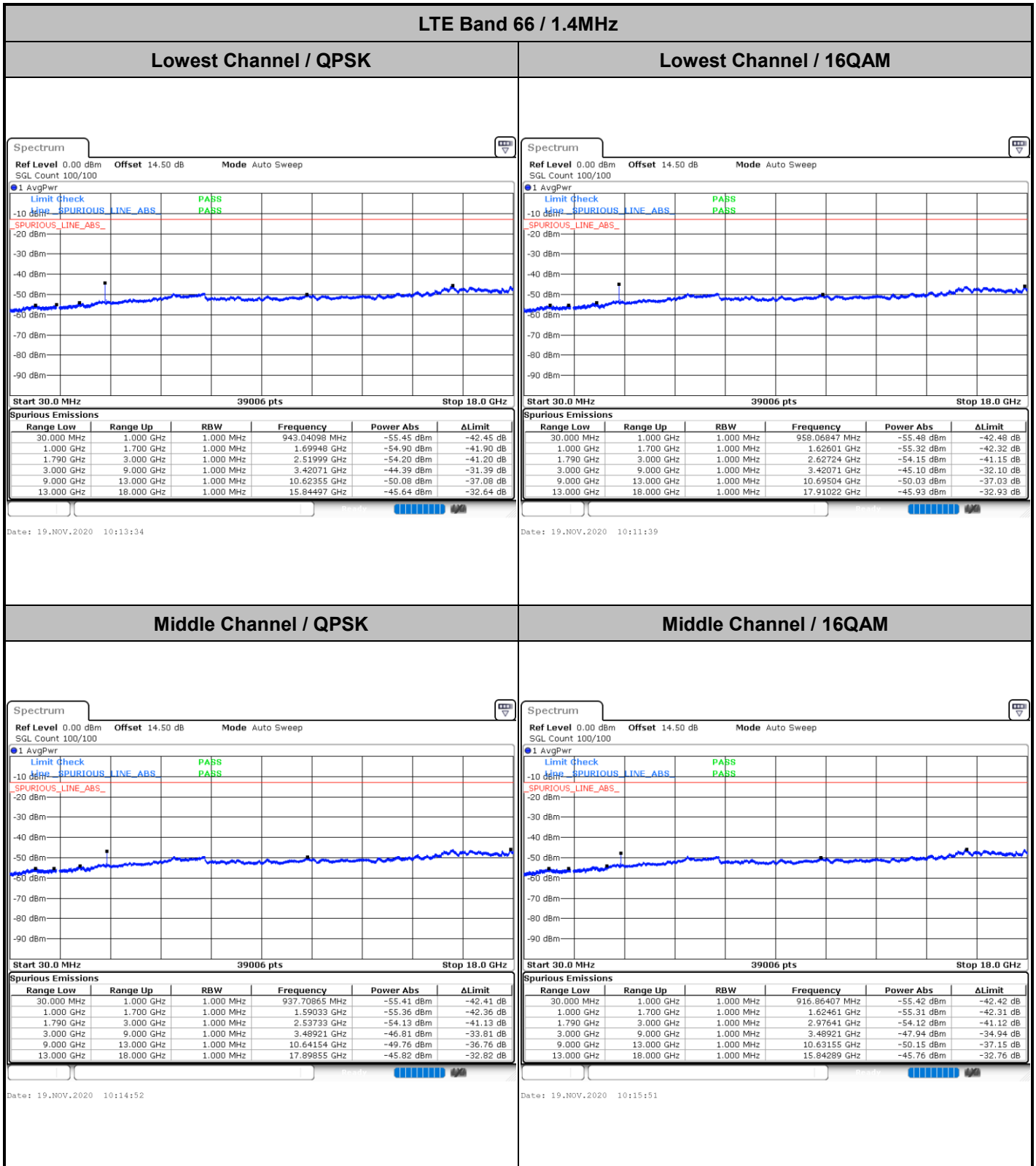
Highest Band Edge / Full RB



Date: 19.NOV.2020 15:11:48



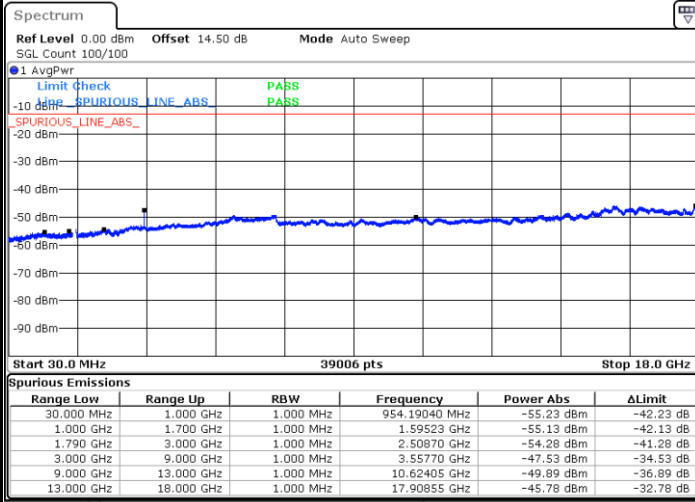
Conducted Spurious Emission





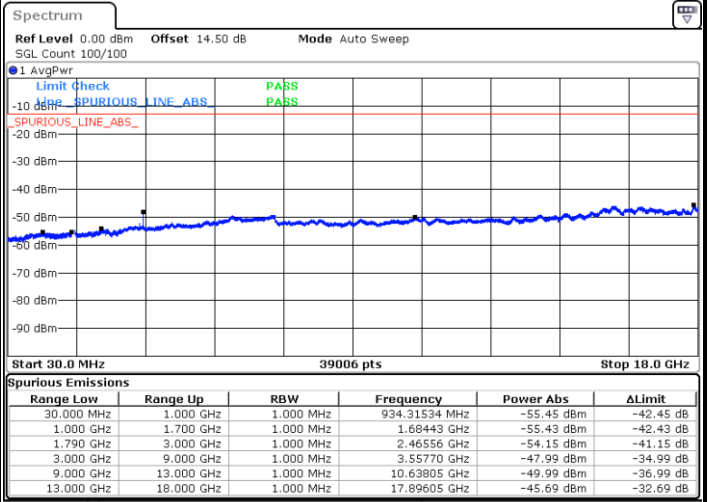
LTE Band 66 / 1.4MHz

Highest Channel / QPSK



Date: 19.NOV.2020 10:28:25

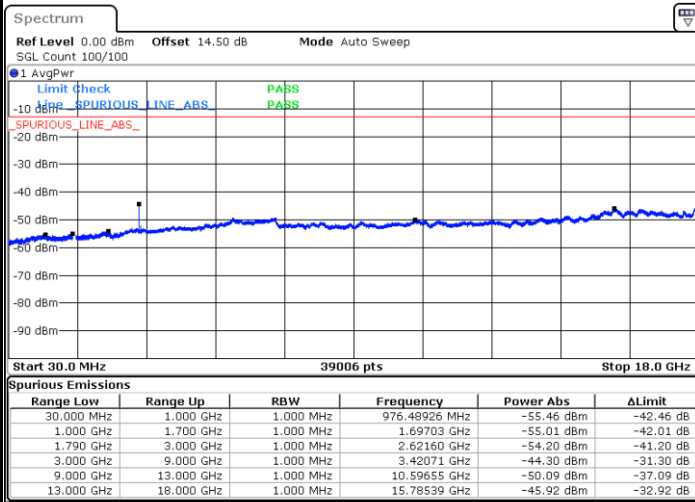
Highest Channel / 16QAM



Date: 19.NOV.2020 10:27:43

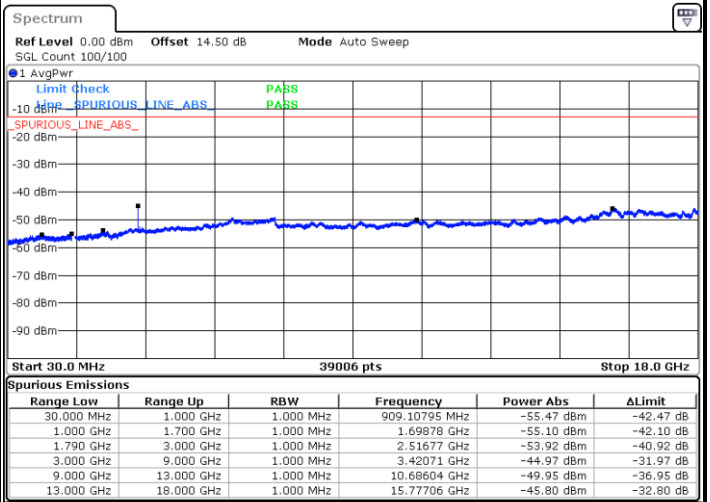
LTE Band 66 / 3MHz

Lowest Channel / QPSK



Date: 19.NOV.2020 10:50:02

Lowest Channel / 16QAM



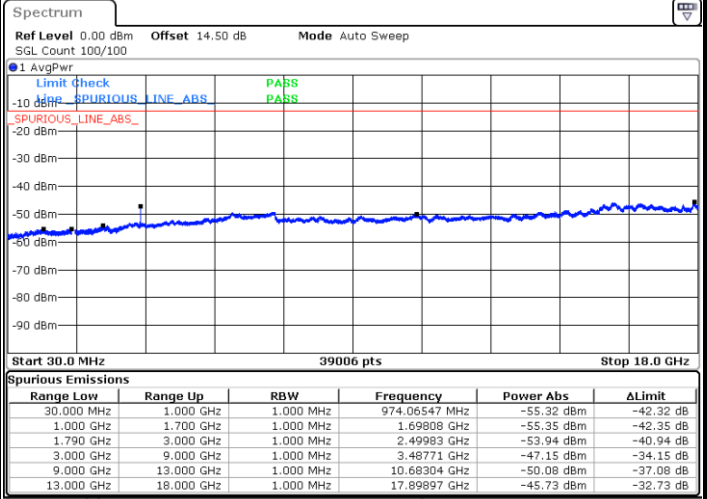
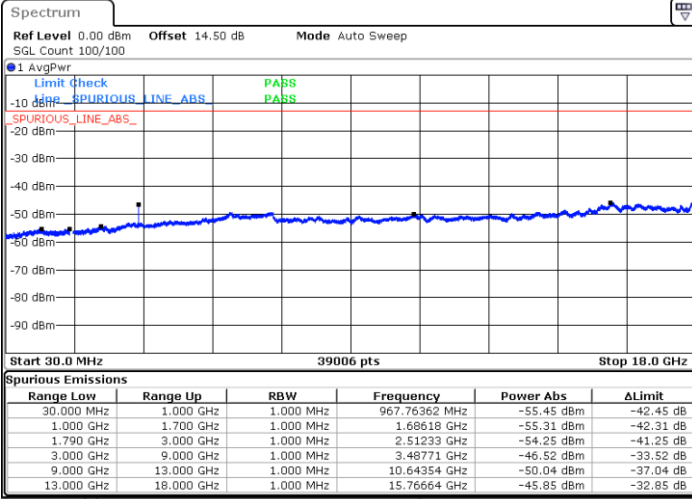
Date: 19.NOV.2020 10:48:27



LTE Band 66 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

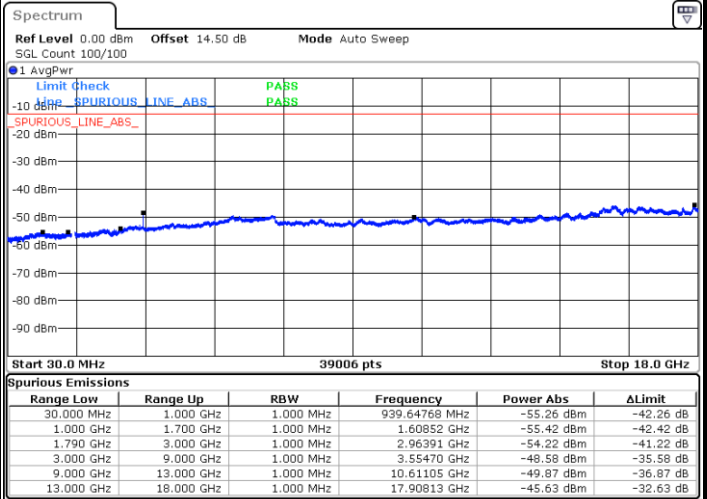
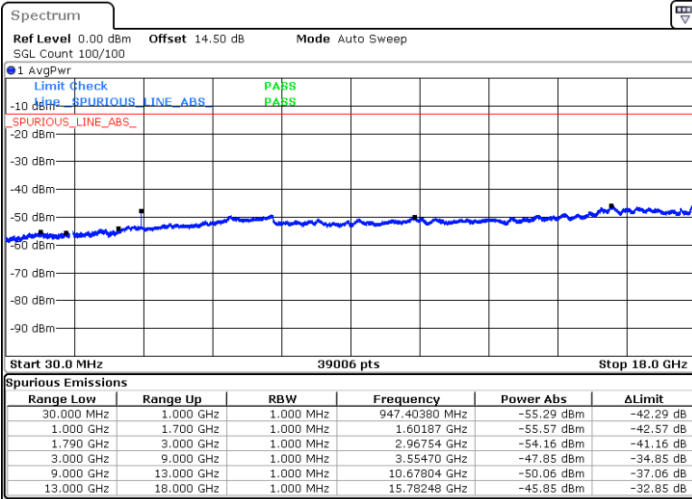


Date: 19.NOV.2020 10:52:25

Date: 19.NOV.2020 10:53:41

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19.NOV.2020 11:03:25

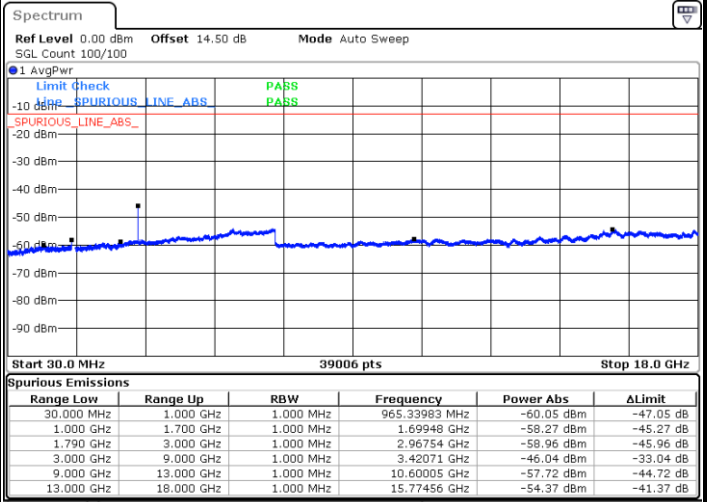
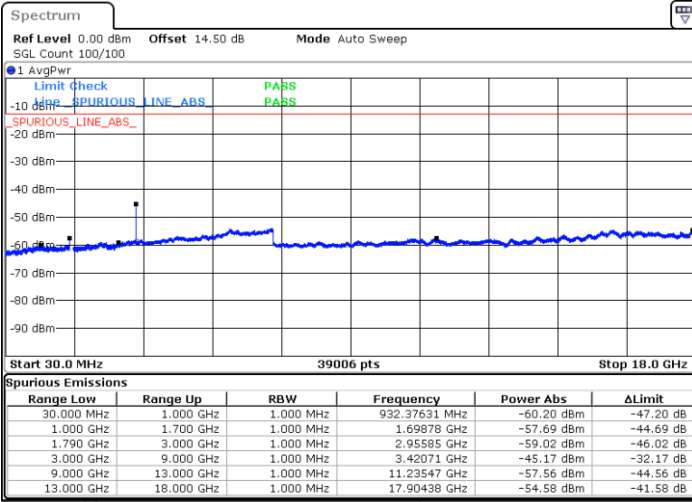
Date: 19.NOV.2020 11:02:28



LTE Band 66 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

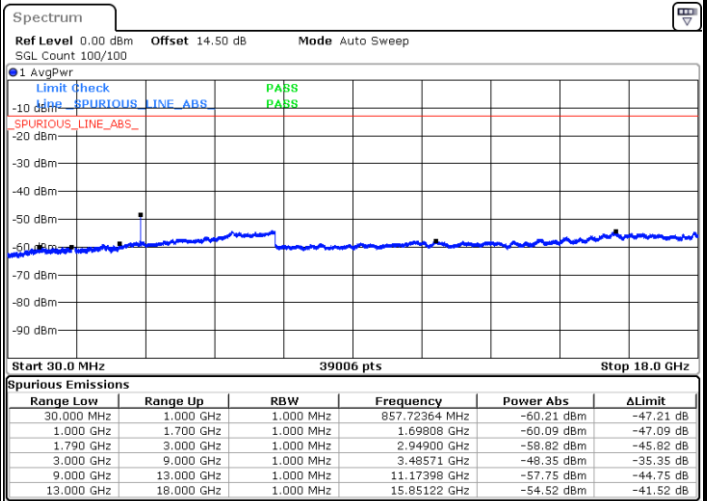
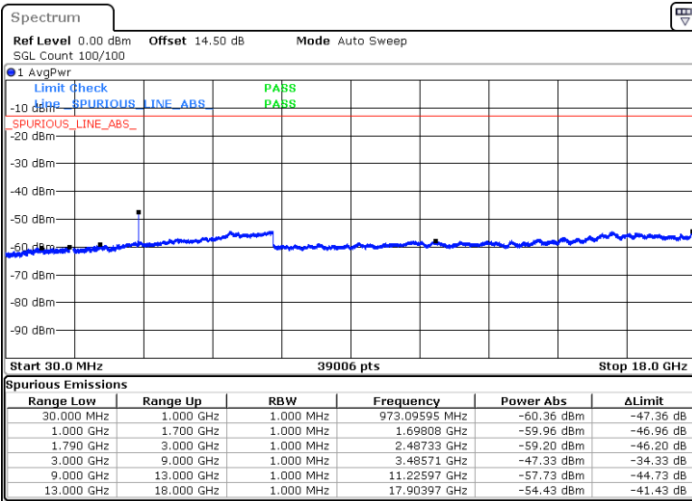


Date: 19.NOV.2020 11:20:38

Date: 19.NOV.2020 11:19:26

Middle Channel / QPSK

Middle Channel / 16QAM



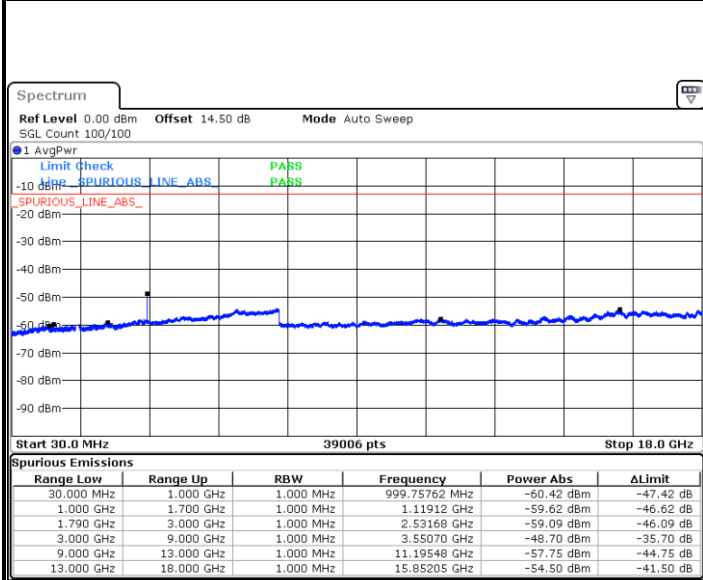
Date: 19.NOV.2020 11:21:42

Date: 19.NOV.2020 11:22:29



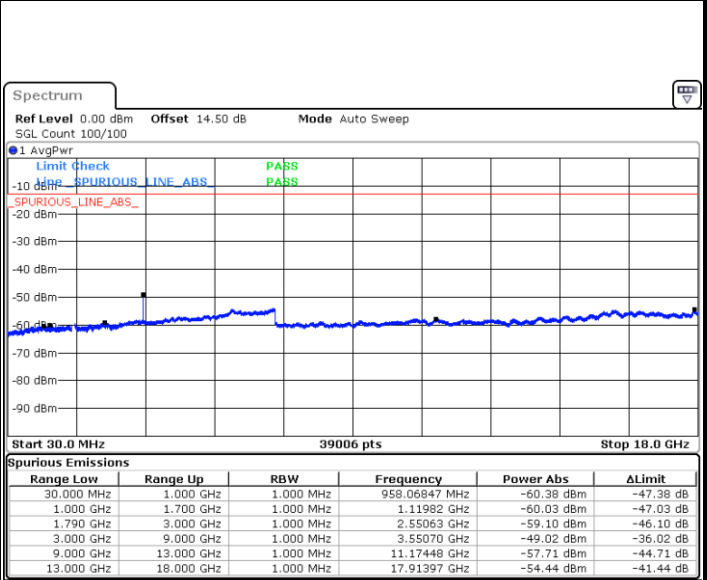
LTE Band 66 / 5MHz

Highest Channel / QPSK



Date: 19.NOV.2020 11:30:06

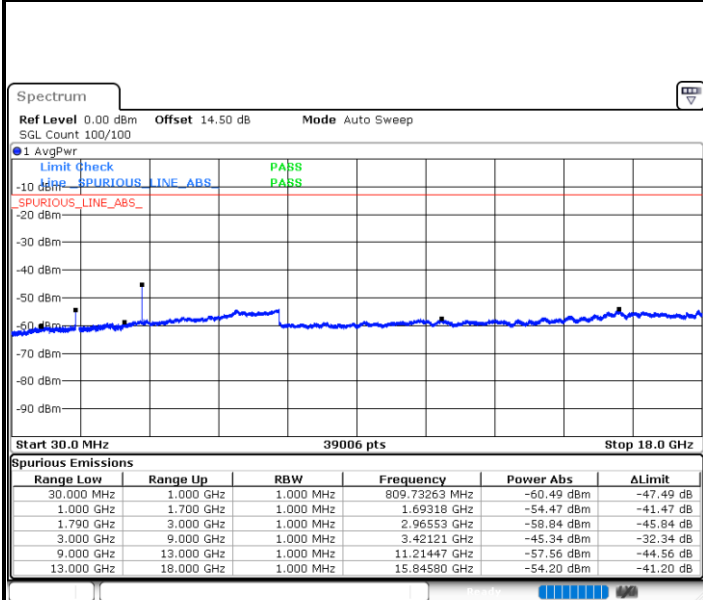
Highest Channel / 16QAM



Date: 19.NOV.2020 11:29:14

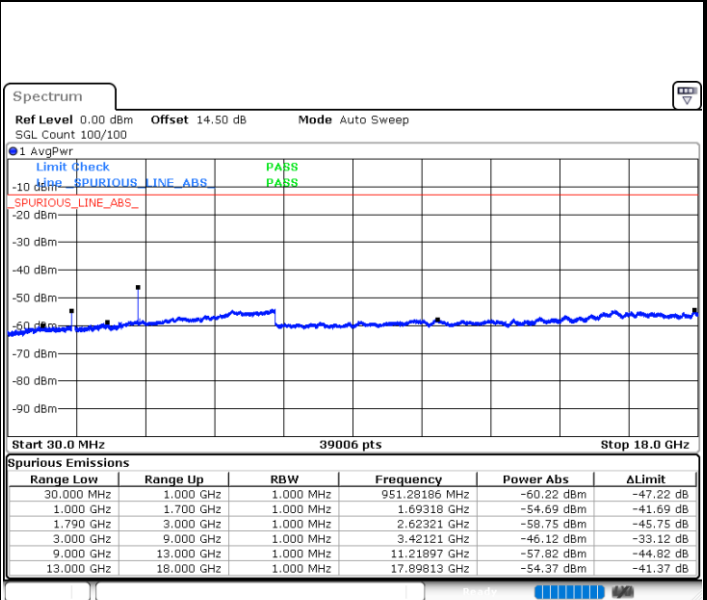
LTE Band 66 / 10MHz

Lowest Channel / QPSK



Date: 19.NOV.2020 11:38:37

Lowest Channel / 16QAM



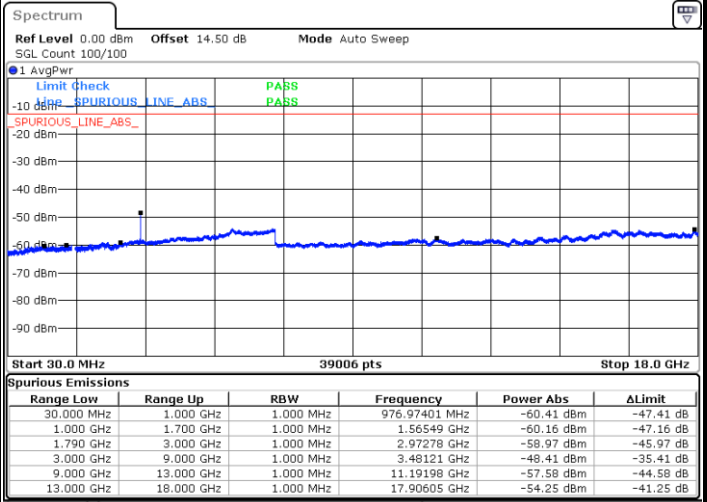
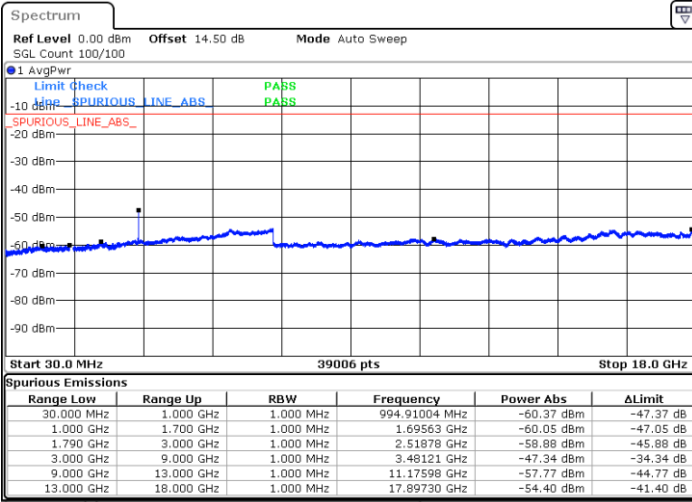
Date: 19.NOV.2020 11:37:25



LTE Band 66 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

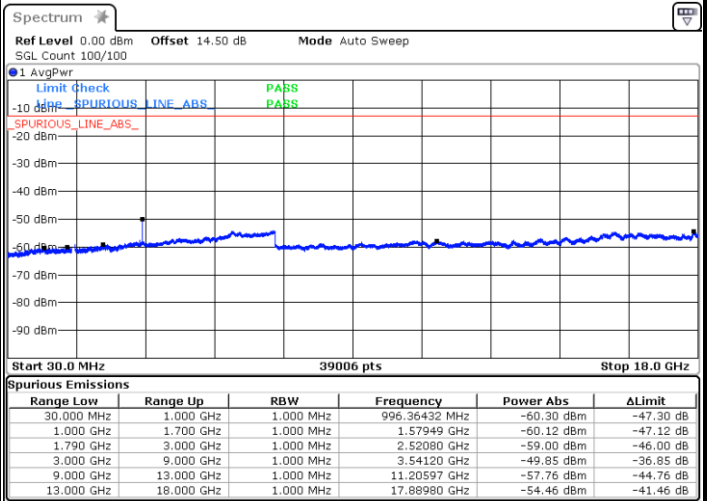
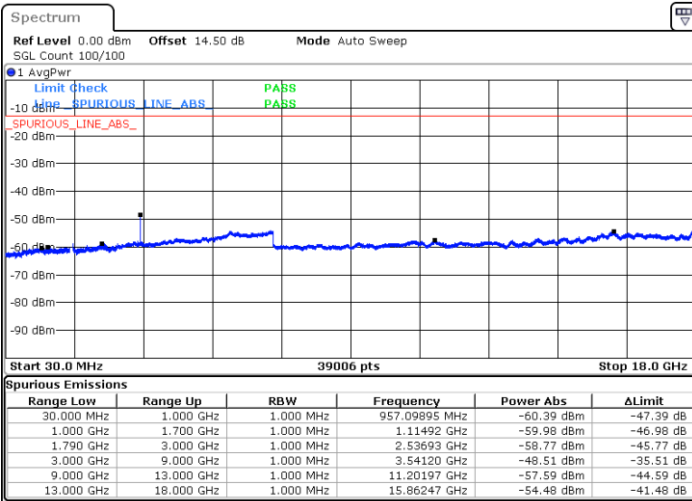


Date: 19.NOV.2020 11:39:41

Date: 19.NOV.2020 11:40:43

Highest Channel / QPSK

Highest Channel / 16QAM



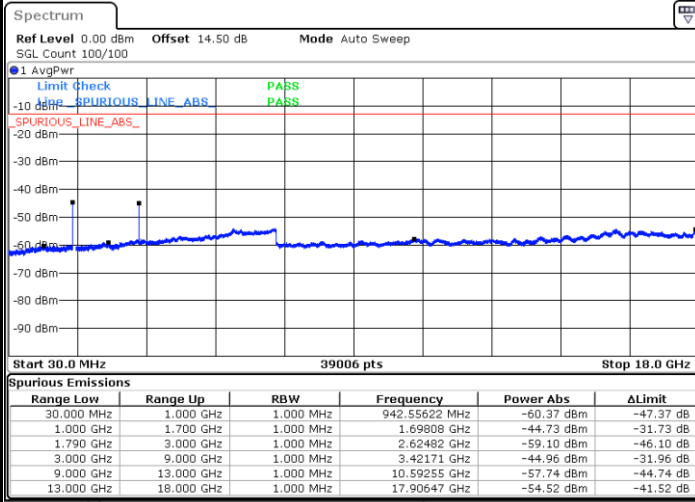
Date: 19.NOV.2020 11:45:59

Date: 19.NOV.2020 11:44:44



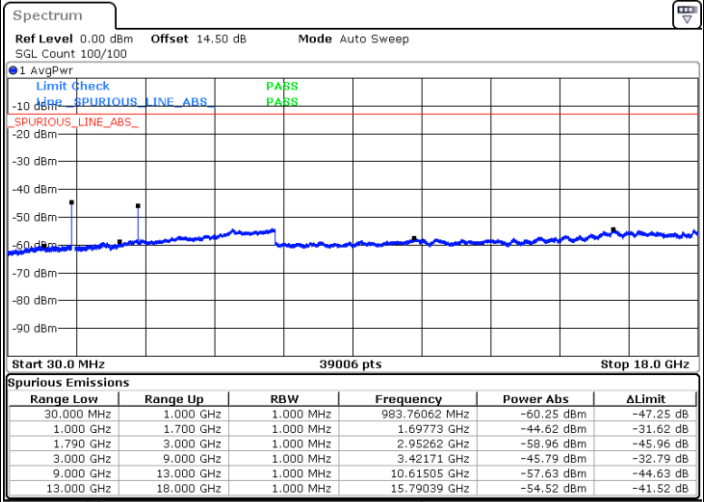
LTE Band 66 / 15MHz

Lowest Channel / QPSK



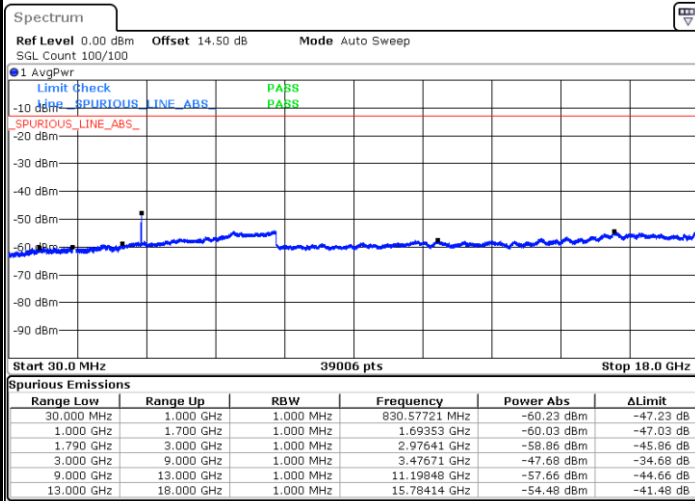
Date: 19.NOV.2020 14:00:27

Lowest Channel / 16QAM



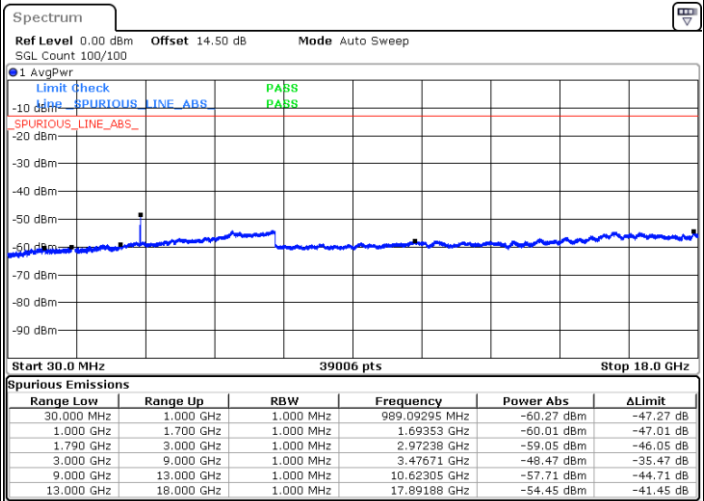
Date: 19.NOV.2020 13:59:32

Middle Channel / QPSK



Date: 19.NOV.2020 14:08:02

Middle Channel / 16QAM

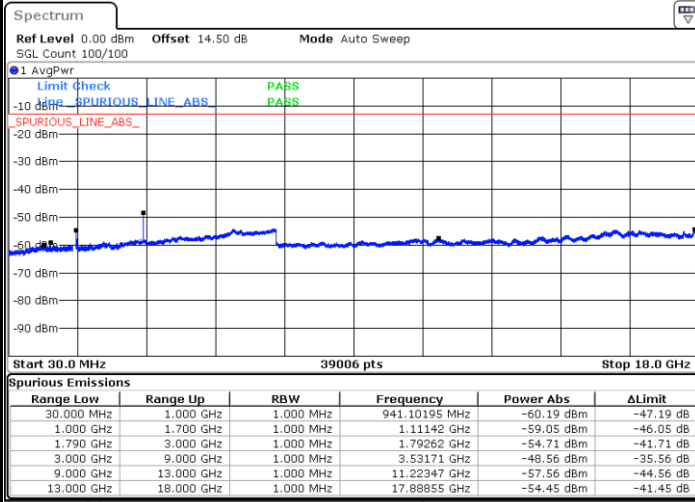


Date: 19.NOV.2020 14:09:23



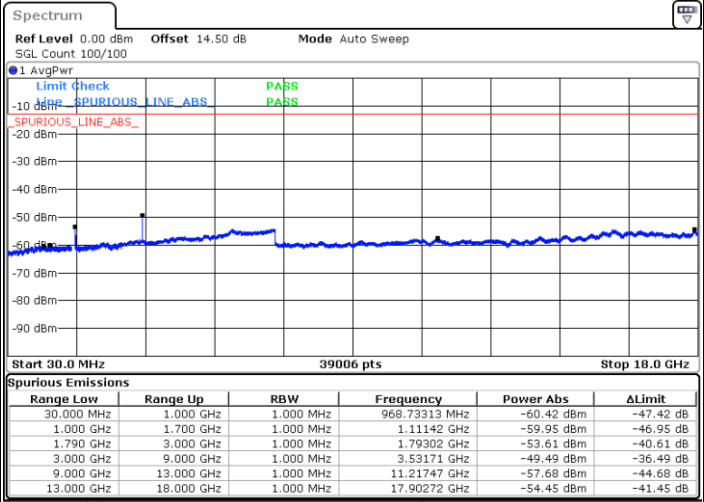
LTE Band 66 / 15MHz

Highest Channel / QPSK



Date: 19.NOV.2020 14:17:54

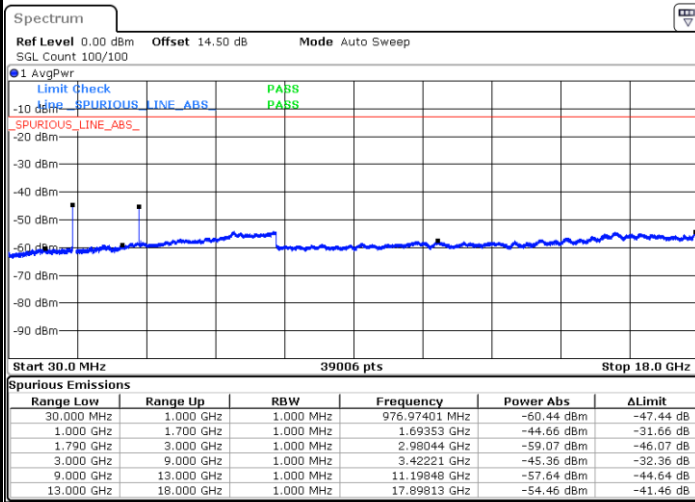
Highest Channel / 16QAM



Date: 19.NOV.2020 14:16:43

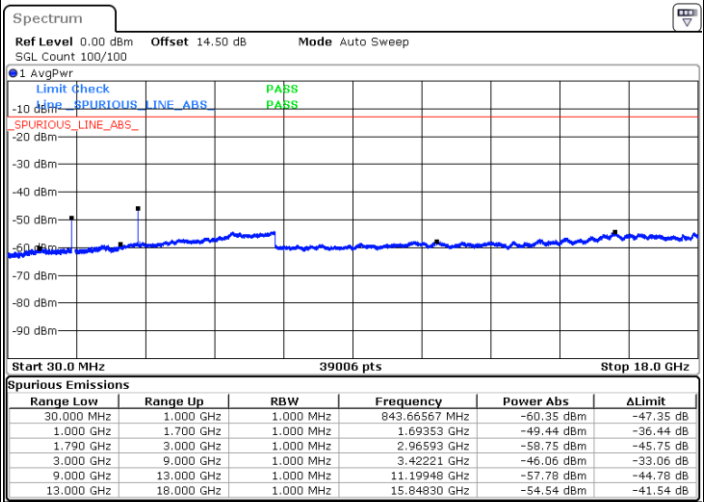
LTE Band 66 / 20MHz

Lowest Channel / QPSK



Date: 19.NOV.2020 14:32:24

Lowest Channel / 16QAM



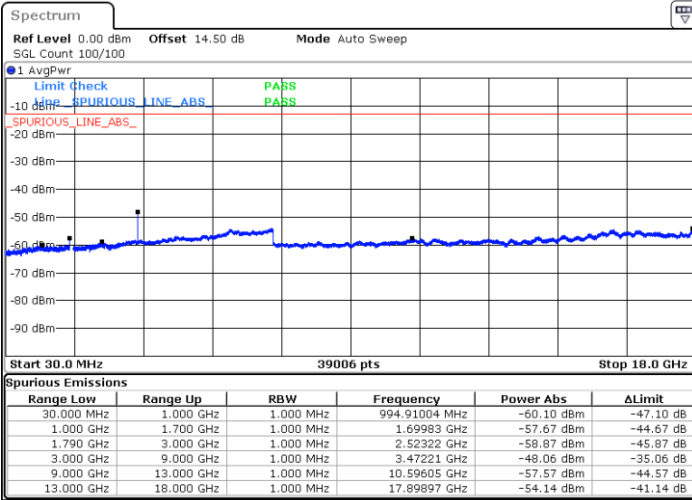
Date: 19.NOV.2020 14:30:48



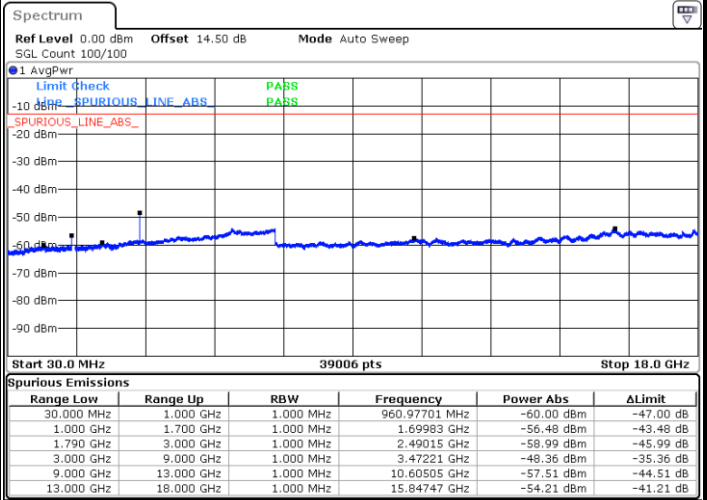
LTE Band 66 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM



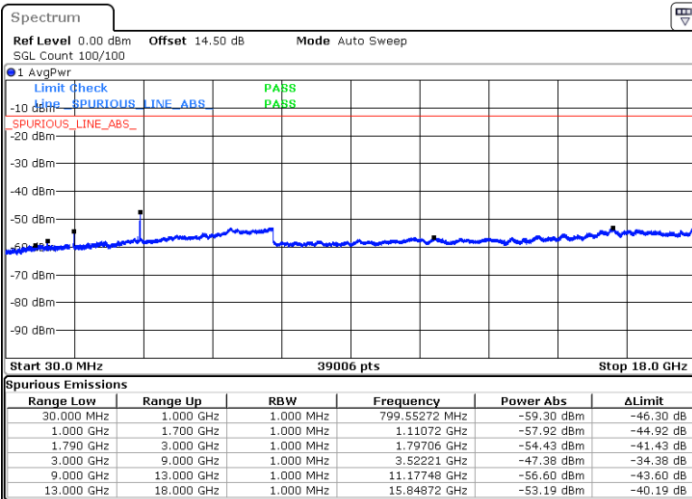
Date: 19.NOV.2020 14:34:00



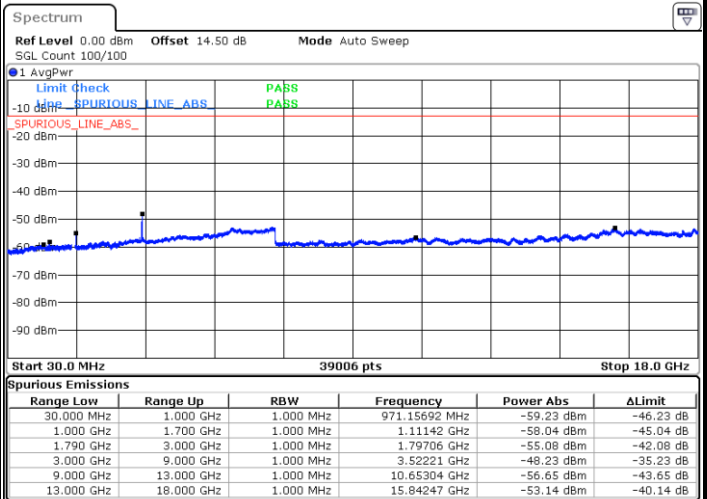
Date: 19.NOV.2020 14:35:37

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19.NOV.2020 15:20:15



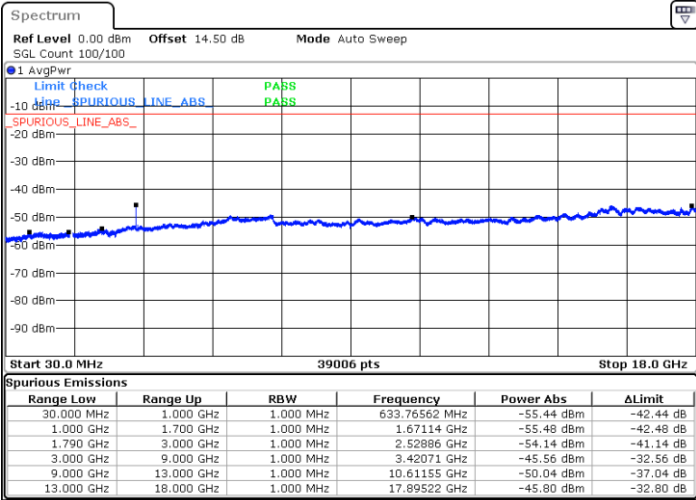
Date: 19.NOV.2020 15:18:16



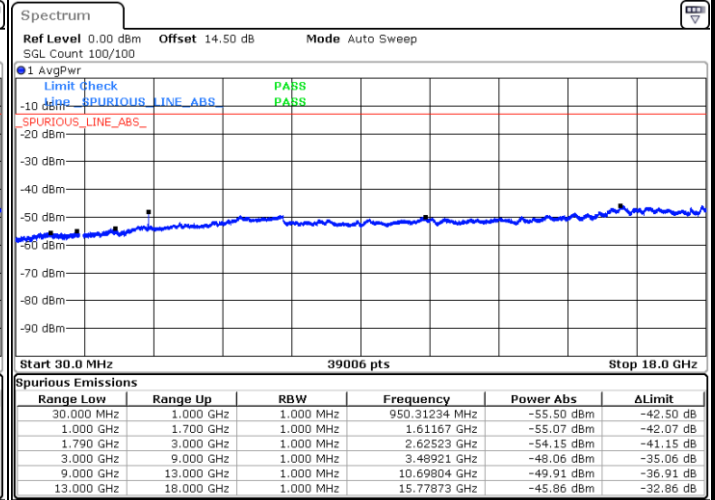
LTE Band 66 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

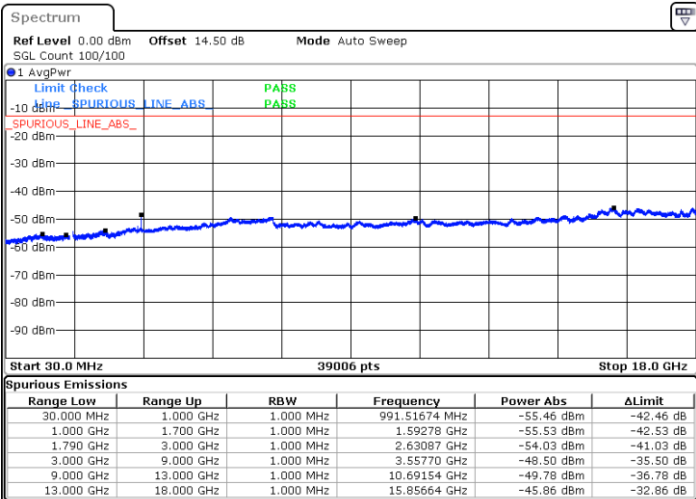


Date: 19.NOV.2020 10:09:32



Date: 19.NOV.2020 10:19:02

Highest Channel / 64QAM



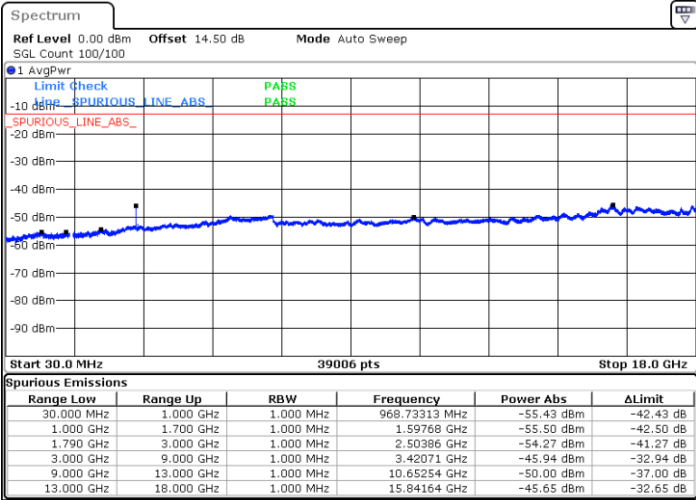
Date: 19.NOV.2020 10:26:41



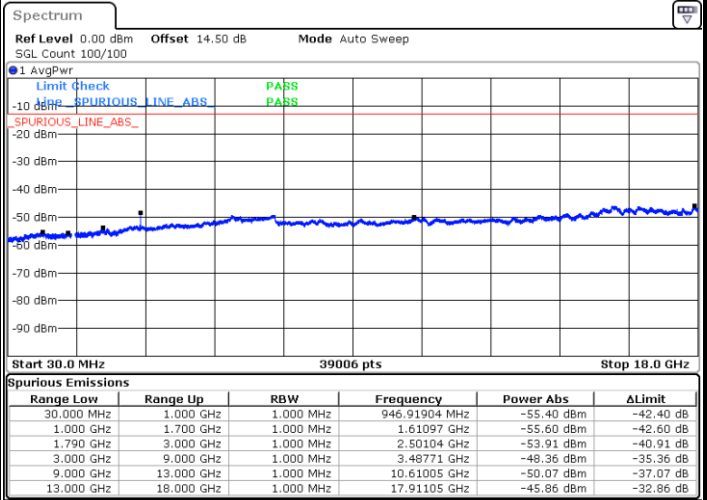
LTE Band 66 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

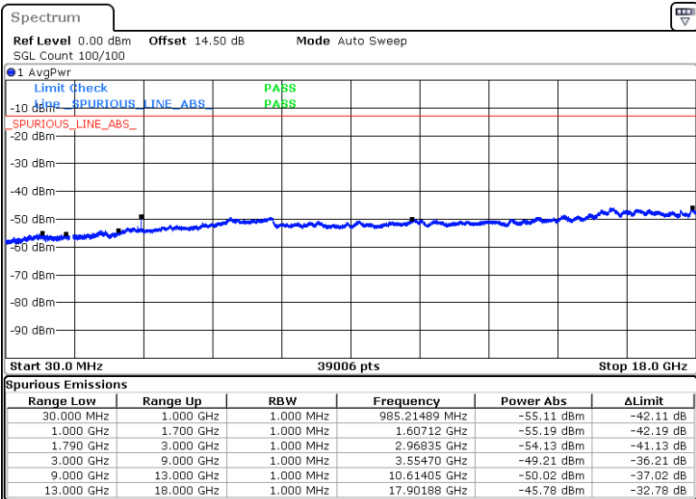


Date: 19.NOV.2020 10:45:36



Date: 19.NOV.2020 10:55:14

Highest Channel / 64QAM



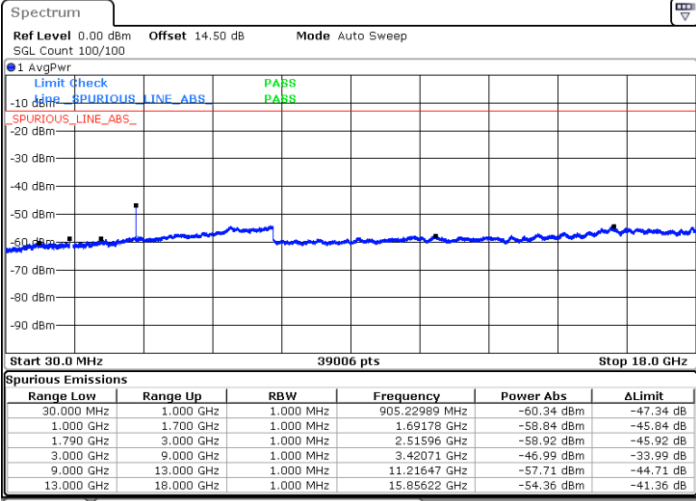
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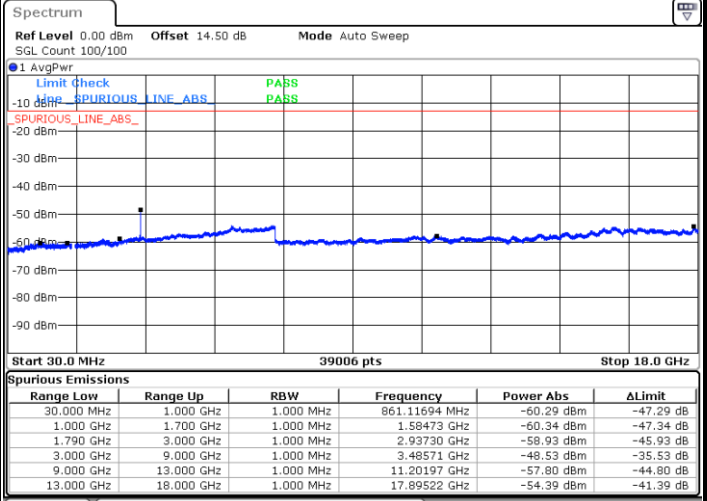
LTE Band 66 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

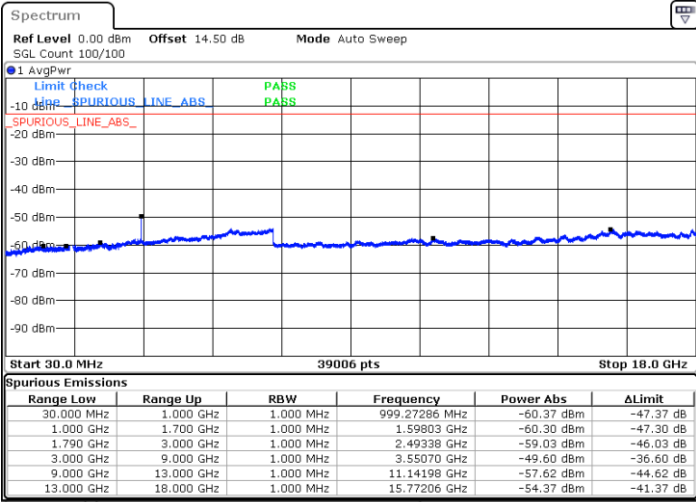


Date: 19.NOV.2020 11:17:19



Date: 19.NOV.2020 11:23:14

Highest Channel / 64QAM



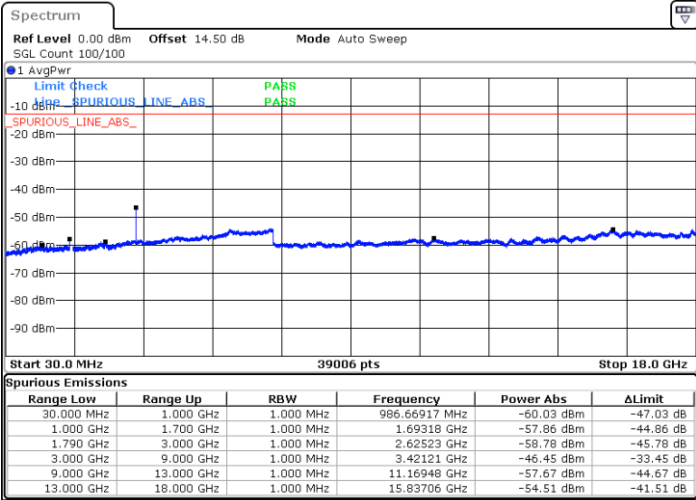
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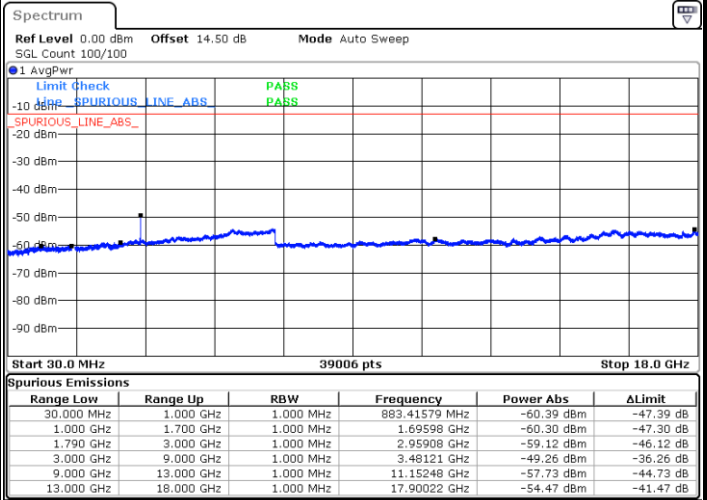
LTE Band 66 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

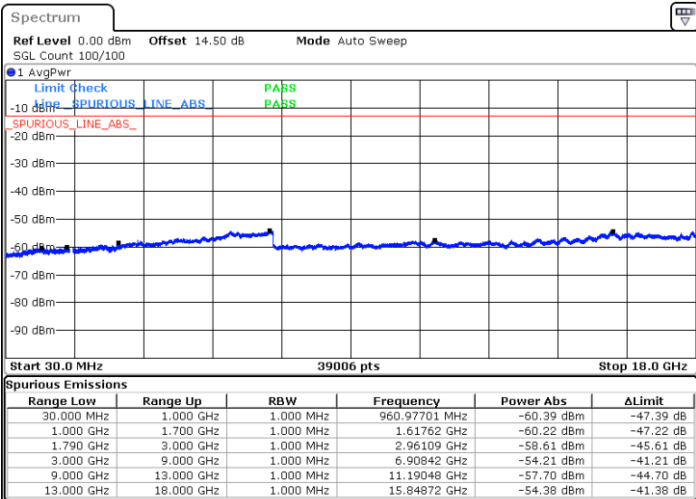


Date: 19.NOV.2020 11:36:07



Date: 19.NOV.2020 11:41:44

Highest Channel / 64QAM



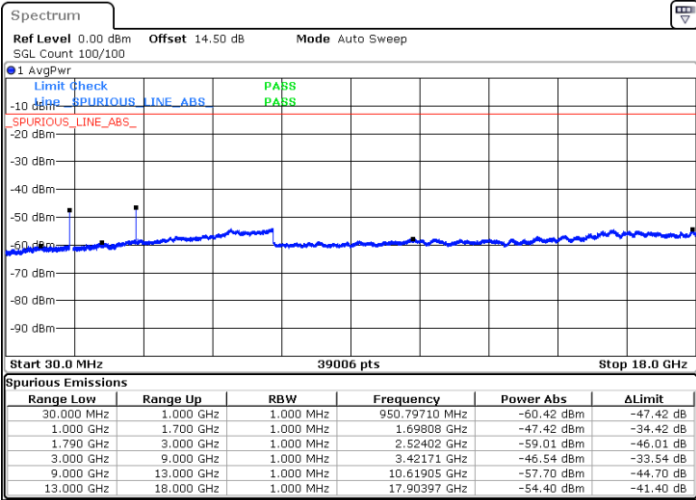
Date: 19.NOV.2020 11:42:52



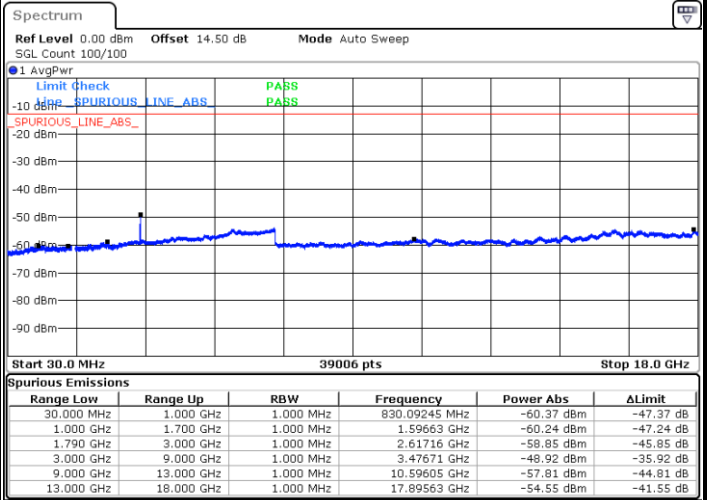
LTE Band 66 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

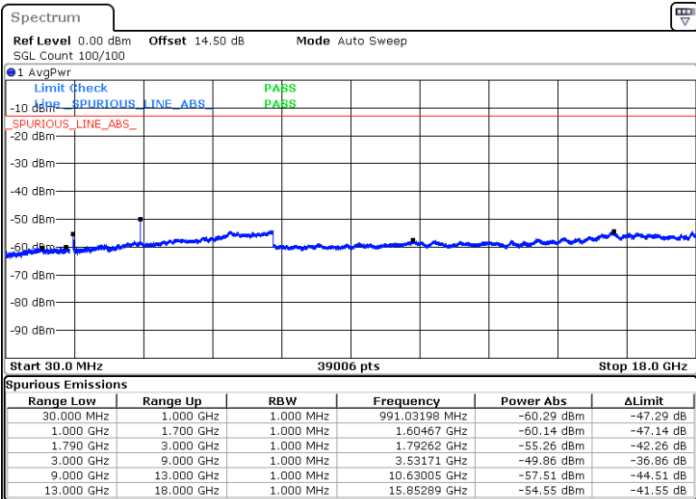


Date: 19.NOV.2020 13:58:38



Date: 19.NOV.2020 14:10:38

Highest Channel / 64QAM

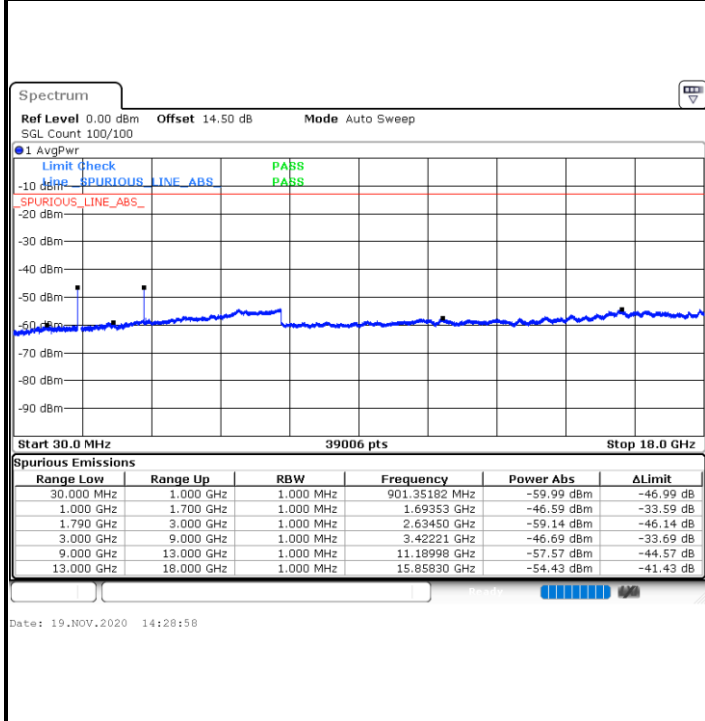


Date: 19.NOV.2020 14:15:01

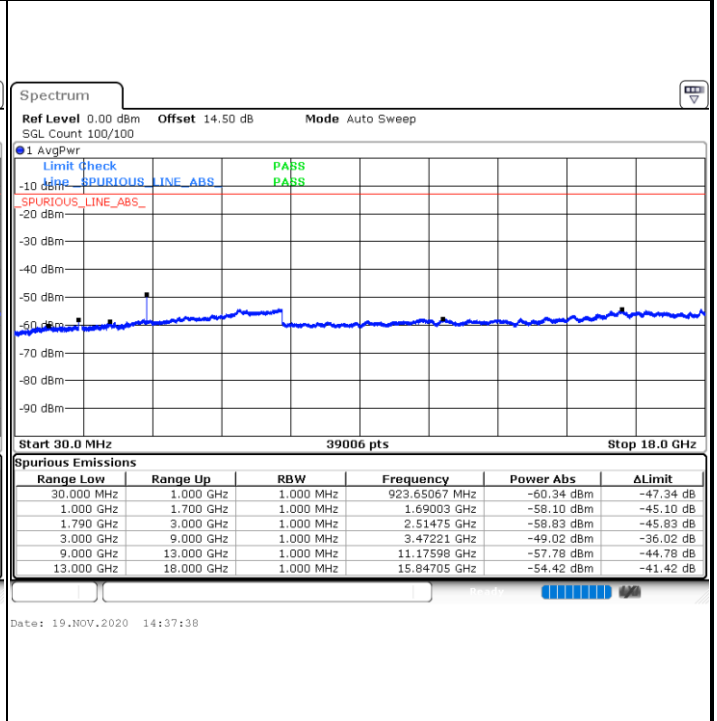


LTE Band 66 / 20MHz

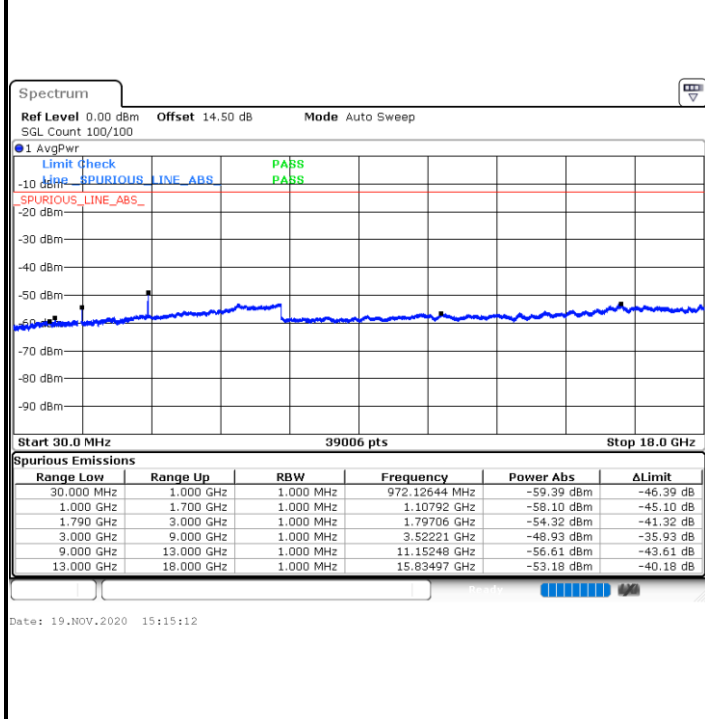
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM





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	0.0042	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0066	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0042	
20	Maximum Voltage	0.0054	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0036	

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 5 / 1.4MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1671.92	-56.86	-13	-43.86	-63.08	-60.11	4.00	9.40	H
	2507.88	-58.36	-13	-45.36	-68.61	-61.93	4.88	10.60	H
	3343.84	-57.22	-13	-44.22	-69.27	-62.15	5.52	12.60	H
	4176	-46.37	-13	-33.37	-62.06	-50.84	6.00	12.62	H
	5015.22	-58.98	-13	-45.98	-76.36	-62.39	7.14	12.70	H
	1671.92	-47.69	-13	-34.69	-53.63	-50.94	4.00	9.40	V
	2507.88	-55.40	-13	-42.40	-65.98	-58.97	4.88	10.60	V
	3343.84	-55.12	-13	-42.12	-67.55	-60.05	5.52	12.60	V
	4176	-43.60	-13	-30.60	-59.49	-48.07	6.00	12.62	V
	5015.22	-58.09	-13	-45.09	-75.39	-61.50	7.14	12.70	V

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

LTE Band 5 / 3MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1671.92	-55.34	-13	-42.34	-61.56	-58.59	4.00	9.40	H
	2507.88	-55.89	-13	-42.89	-66.14	-59.46	4.88	10.60	H
	3343.84	-57.13	-13	-44.13	-69.18	-62.06	5.52	12.60	H
	4176	-47.05	-13	-34.05	-62.74	-51.52	6.00	12.62	H
	5010.9	-58.49	-13	-45.49	-75.87	-61.90	7.14	12.70	H
	1671.92	-49.08	-13	-36.08	-55.02	-52.33	4.00	9.40	V
	2507.88	-56.45	-13	-43.45	-67.03	-60.02	4.88	10.60	V
	3343.84	-54.56	-13	-41.56	-66.99	-59.49	5.52	12.60	V
	4176	-43.36	-13	-30.36	-59.25	-47.83	6.00	12.62	V
	5010.9	-57.94	-13	-44.94	-75.24	-61.35	7.14	12.70	V

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



LTE Band 5 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1668.68	-56.34	-13	-43.34	-62.57	-59.59	4.00	9.40	H
	2503.02	-59.24	-13	-46.24	-69.51	-62.81	4.88	10.60	H
	3337.36	-56.69	-13	-43.69	-68.79	-61.62	5.52	12.60	H
	4171.7	-47.03	-13	-34.03	-62.70	-51.50	6.00	12.62	H
	5005.5	-58.81	-13	-45.81	-76.18	-62.22	7.14	12.70	H
	1668.68	-48.74	-13	-35.74	-54.72	-51.99	4.00	9.40	V
	2503.02	-58.79	-13	-45.79	-69.39	-62.36	4.88	10.60	V
	3337.36	-54.67	-13	-41.67	-67.16	-59.60	5.52	12.60	V
	4171.7	-43.61	-13	-30.61	-59.48	-48.08	6.00	12.62	V
	5005.5	-57.75	-13	-44.75	-75.04	-61.16	7.14	12.70	V

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

LTE Band 5 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664.08	-53.56	-13	-40.56	-59.81	-56.81	4.00	9.40	H
	2496.27	-53.92	-13	-40.92	-64.21	-57.49	4.88	10.60	H
	3328.36	-51.43	-13	-38.43	-63.60	-56.36	5.52	12.60	H
	4160.35	-43.97	-13	-30.97	-59.63	-48.44	6.00	12.62	H
	4992	-56.52	-13	-43.52	-73.90	-59.93	7.14	12.70	H
	1664.08	-45.99	-13	-32.99	-52.01	-49.24	4.00	9.40	V
	2496.27	-50.44	-13	-37.44	-61.07	-54.01	4.88	10.60	V
	3328.36	-51.94	-13	-38.94	-64.52	-56.87	5.52	12.60	V
	4160.35	-41.85	-13	-28.85	-57.68	-46.32	6.00	12.62	V
	4992	-55.38	-13	-42.38	-72.69	-58.79	7.14	12.70	V

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



LTE Band 66 / 1.4MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3488.74	-56.94	-13	-43.94	-69.95	-63.79	5.65	12.50	H
	5233.11	-57.68	-13	-44.68	-74.84	-63.35	7.13	12.80	H
	6977.48	-56.76	-13	-43.76	-77.83	-60.16	8.40	11.80	H
	3488.74	-54.89	-13	-41.89	-68.44	-61.74	5.65	12.50	V
	5233.11	-58.23	-13	-45.23	-75.33	-63.90	7.13	12.80	V
	6977.48	-55.83	-13	-42.83	-77.04	-59.23	8.40	11.80	V

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

LTE Band 66 / 3MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3487.3	-58.35	-13	-45.35	-71.34	-65.20	5.65	12.50	H
	5230.95	-57.33	-13	-44.33	-74.52	-63.00	7.13	12.80	H
	6974.6	-56.48	-13	-43.48	-77.53	-59.88	8.40	11.80	H
	3487.3	-56.46	-13	-43.46	-69.99	-63.31	5.65	12.50	V
	5230.95	-58.55	-13	-45.55	-75.68	-64.22	7.13	12.80	V
	6974.6	-56.17	-13	-43.17	-77.36	-59.57	8.40	11.80	V

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

LTE Band 66 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3485.5	-57.21	-13	-44.21	-70.18	-64.06	5.65	12.50	H
	5228.25	-57.40	-13	-44.40	-74.62	-63.07	7.13	12.80	H
	6971	-56.66	-13	-43.66	-77.70	-60.06	8.40	11.80	H
	3485.5	-56.97	-13	-43.97	-70.48	-63.82	5.65	12.50	V
	5228.25	-57.89	-13	-44.89	-75.05	-63.56	7.13	12.80	V
	6971	-55.11	-13	-42.11	-76.27	-58.51	8.40	11.80	V

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



LTE Band 66 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3481	-57.34	-13	-44.34	-70.26	-64.19	5.65	12.50	H
	5221.5	-56.12	-13	-43.12	-73.42	-61.79	7.13	12.80	H
	6962	-56.57	-13	-43.57	-77.57	-59.97	8.40	11.80	H
	3481	-56.53	-13	-43.53	-69.99	-63.38	5.65	12.50	V
	5221.5	-57.97	-13	-44.97	-75.22	-63.64	7.13	12.80	V
	6962	-55.81	-13	-42.81	-76.91	-59.21	8.40	11.80	V

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

LTE Band 66 / 15MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3476.5	-58.68	-13	-45.68	-71.55	-65.53	5.65	12.50	H
	5214.75	-56.60	-13	-43.60	-73.98	-62.27	7.13	12.80	H
	6953	-56.03	-13	-43.03	-76.98	-59.43	8.40	11.80	H
	3476.5	-56.80	-13	-43.80	-70.22	-63.65	5.65	12.50	V
	5214.75	-57.11	-13	-44.11	-74.43	-62.78	7.13	12.80	V
	6953	-55.92	-13	-42.92	-76.95	-59.32	8.40	11.80	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3472	-57.64	-13	-44.64	-70.46	-64.49	5.65	12.50	H
	5208	-55.82	-13	-42.82	-73.28	-61.49	7.13	12.80	H
	6944	-56.63	-13	-43.63	-77.54	-60.03	8.40	11.80	H
	3472	-55.59	-13	-42.59	-68.96	-62.44	5.65	12.50	V
	5208	-56.83	-13	-43.83	-74.24	-62.50	7.13	12.80	V
	6944	-55.43	-13	-42.43	-76.39	-58.83	8.40	11.80	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 FG0O2023B which is issued separately.