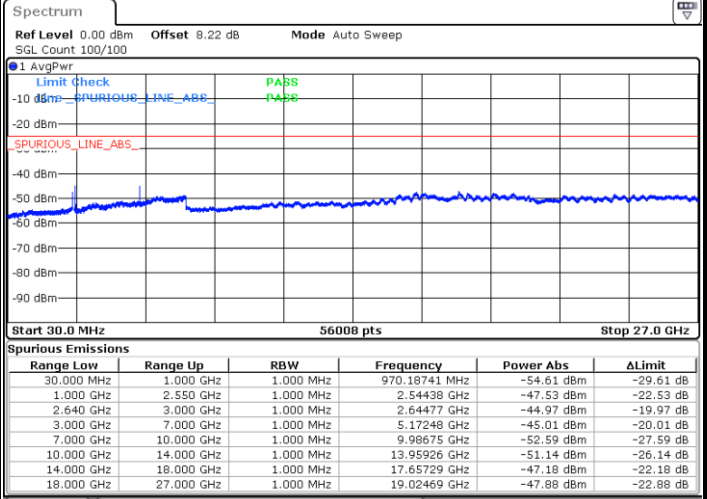
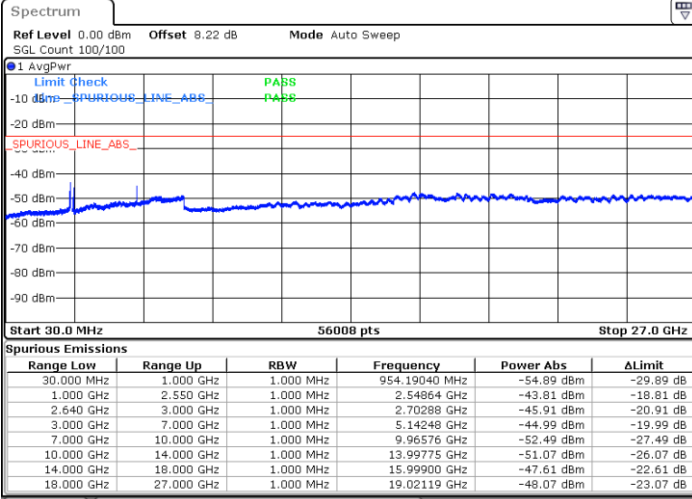




LTE Band 38 / 20MHz

Lowest Channel / QPSK

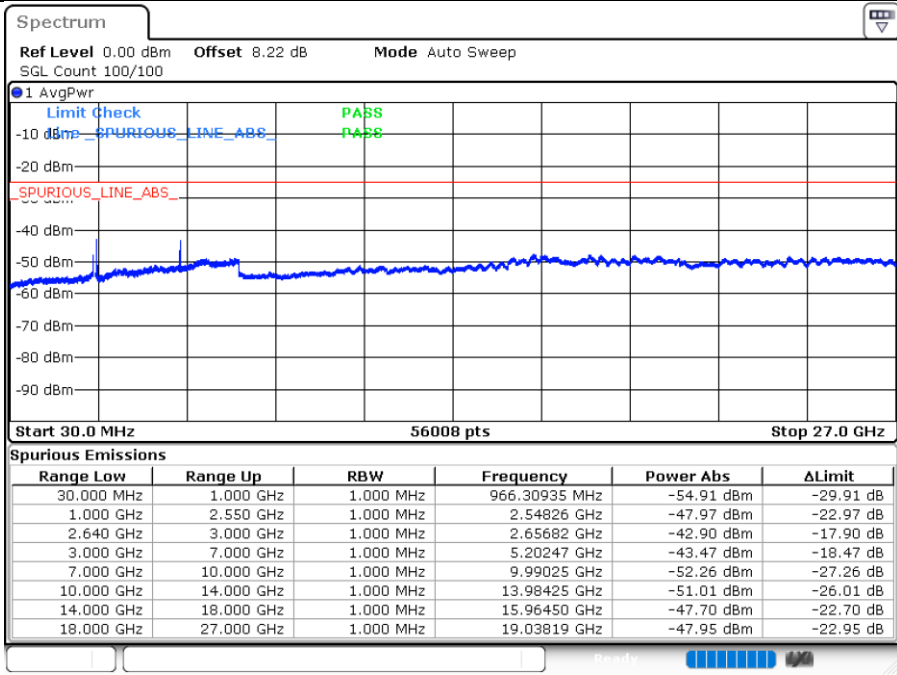
Middle Channel / QPSK



Date: 16.OCT.2022 18:06:19

Date: 16.OCT.2022 17:59:19

Highest Channel / QPSK



Date: 16.OCT.2022 18:00:59



Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

Note:

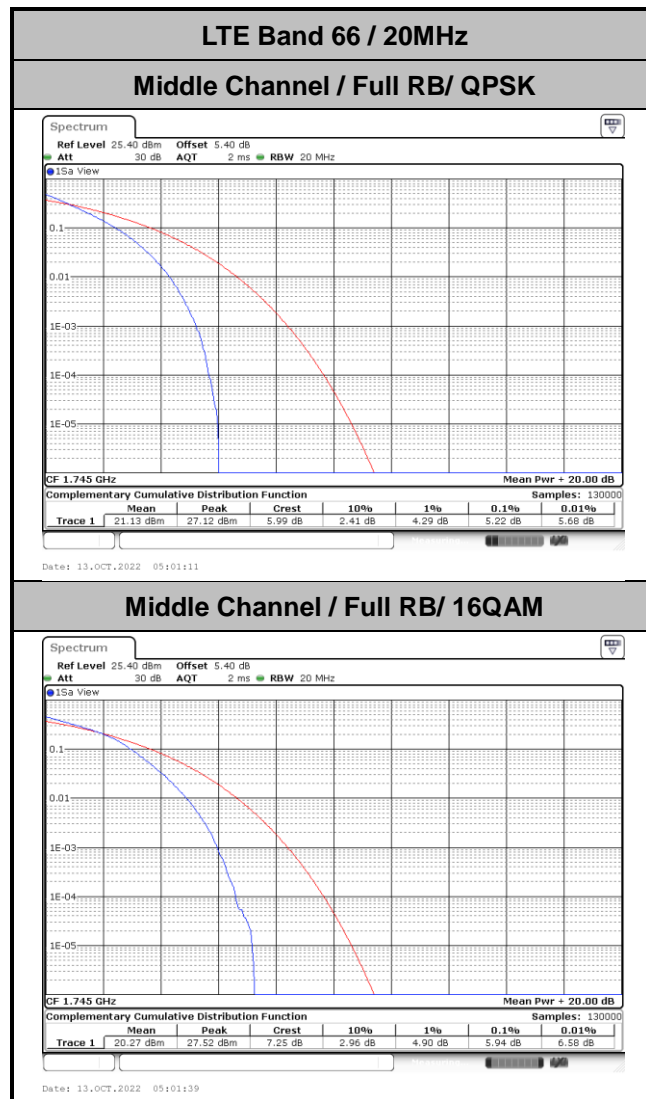
1. Normal Voltage =3.87V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

Peak-to-Average Ratio

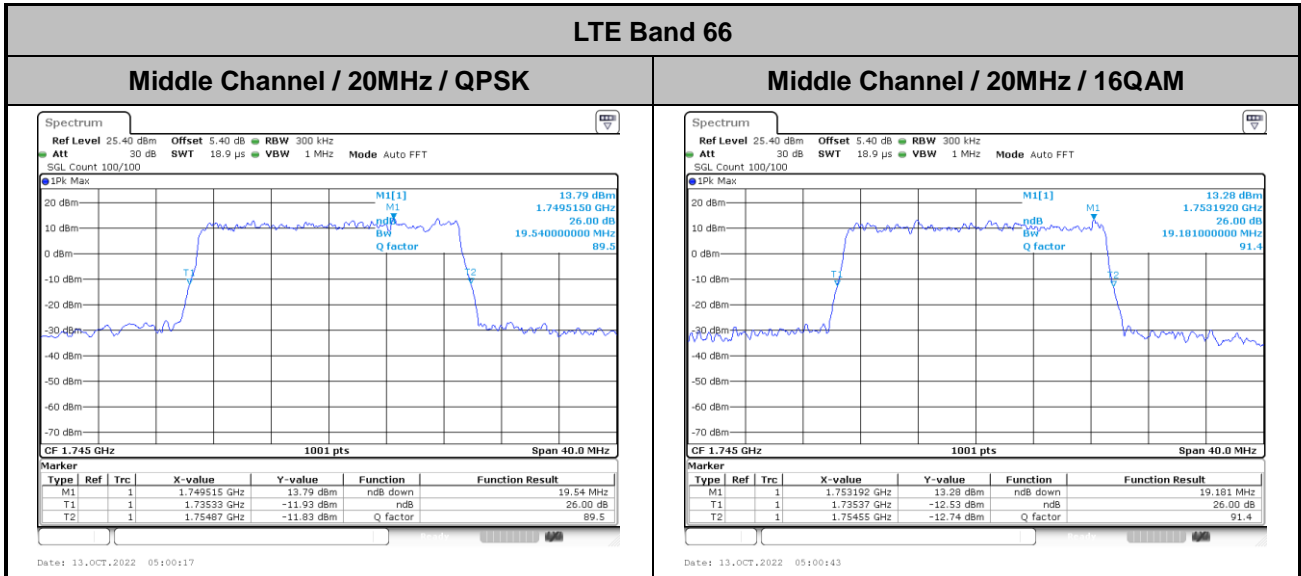
Mode	LTE Band 66 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.22	5.94	PASS





26dB Bandwidth

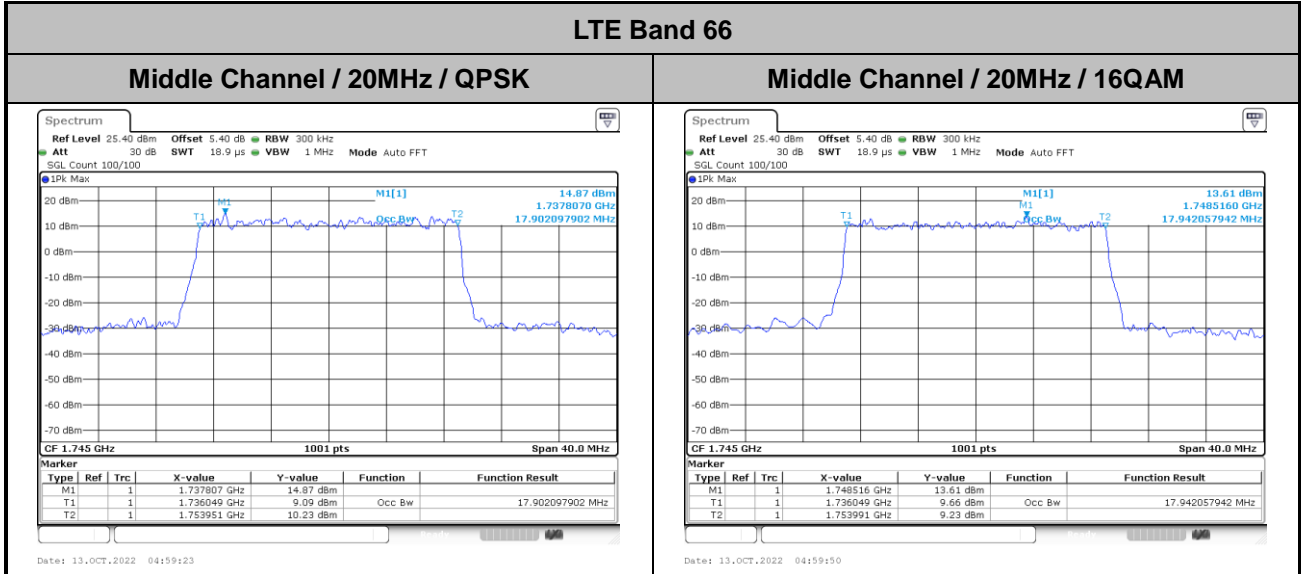
Mode	LTE Band 66 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.54	19.18





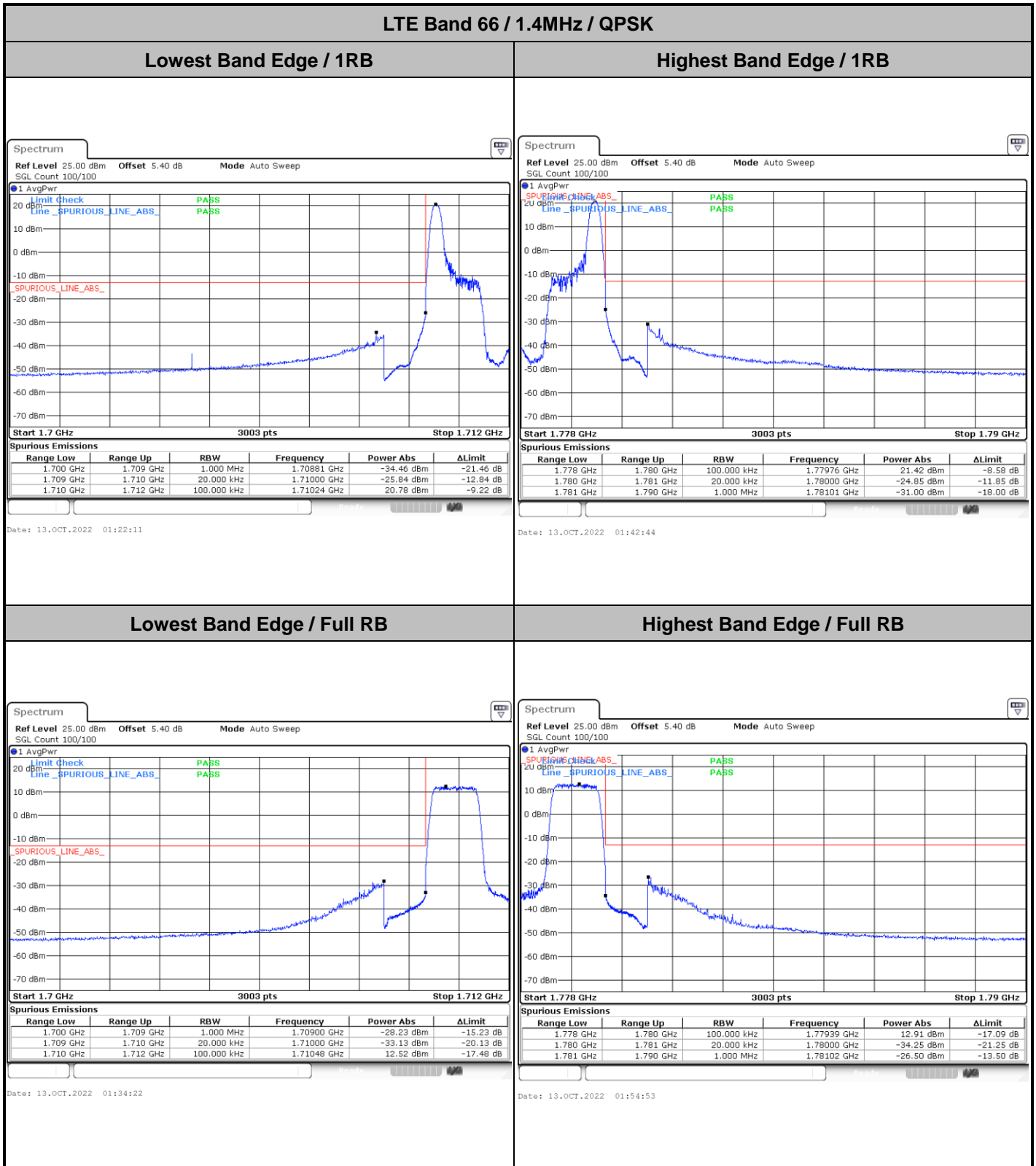
Occupied Bandwidth

Mode	LTE Band 66 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.94





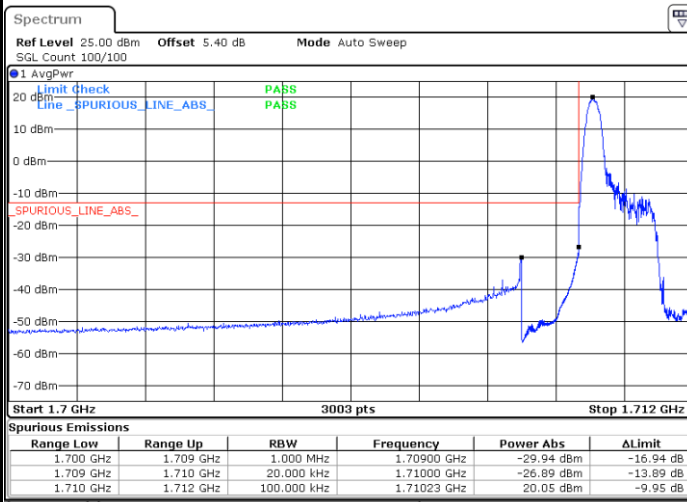
Conducted Band Edge





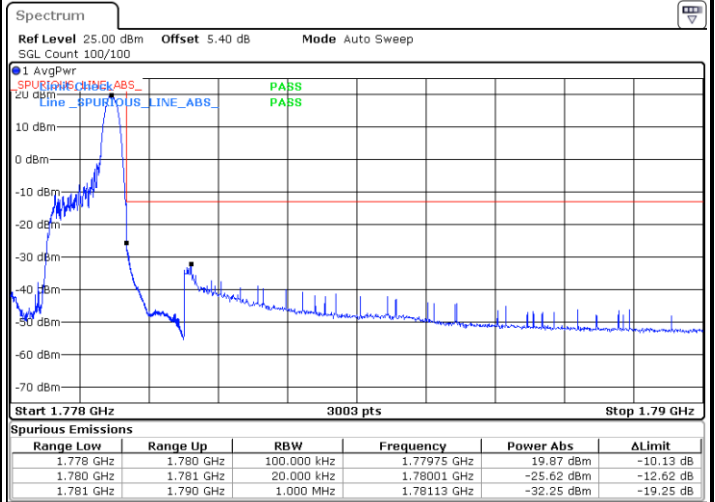
LTE Band 66 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



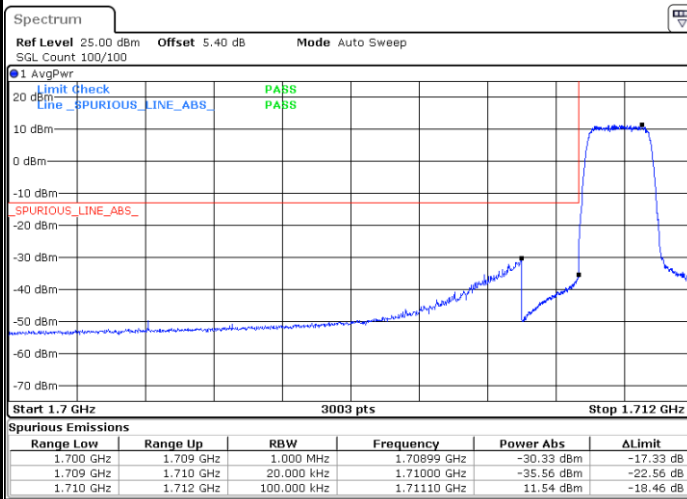
Date: 13.OCT.2022 01:24:38

Highest Band Edge / 1 RB



Date: 13.OCT.2022 01:45:10

Lowest Band Edge / Full RB



Date: 13.OCT.2022 01:31:55

Highest Band Edge / Full RB

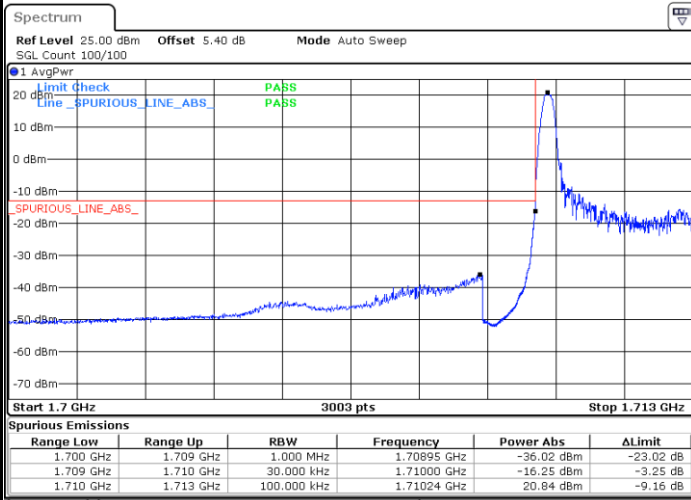


Date: 13.OCT.2022 01:52:28



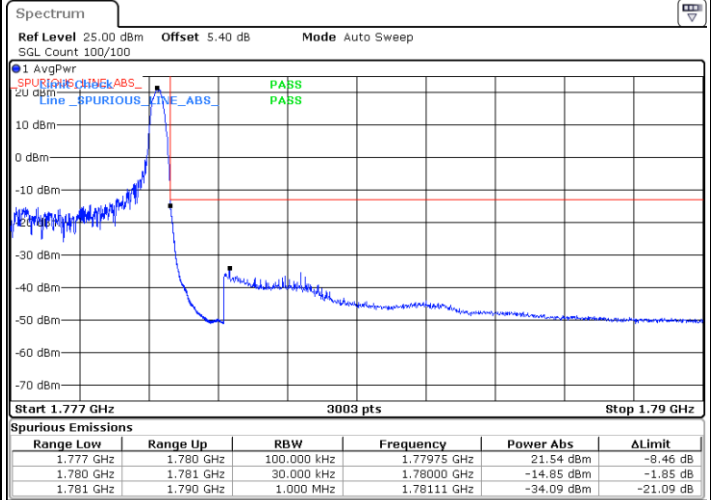
LTE Band 66 / 3MHz / QPSK

Lowest Band Edge / 1RB



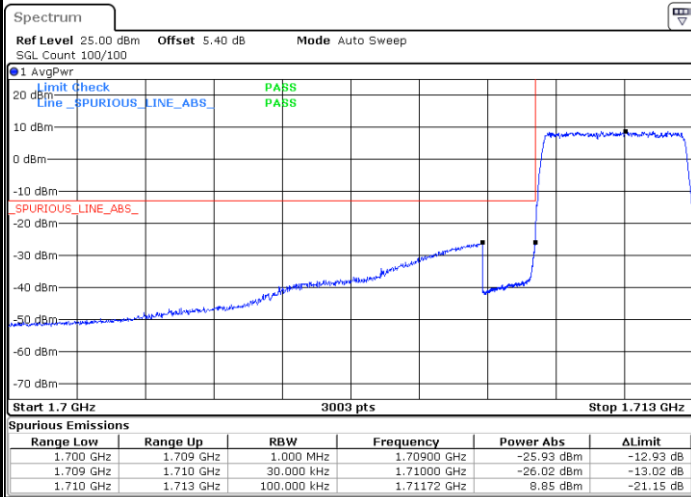
Date: 13.OCT.2022 02:00:17

Highest Band Edge / 1 RB



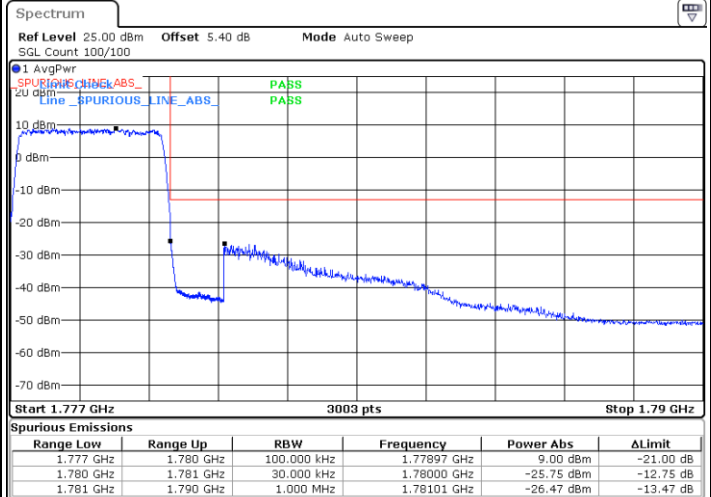
Date: 13.OCT.2022 02:20:46

Lowest Band Edge / Full RB



Date: 13.OCT.2022 02:12:24

Highest Band Edge / Full RB

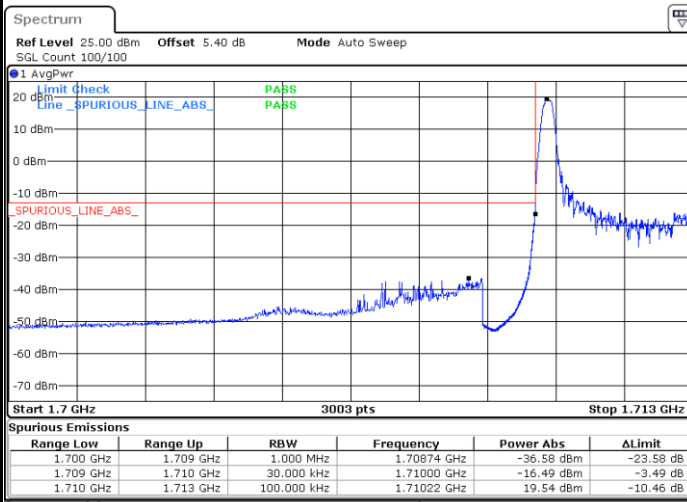


Date: 13.OCT.2022 02:32:54



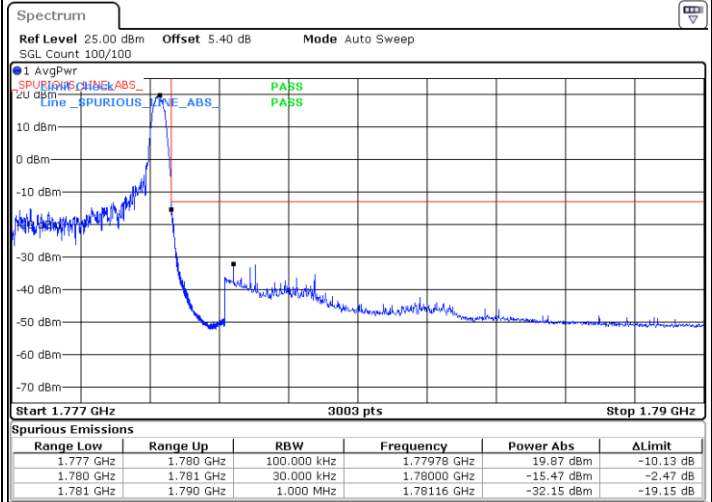
LTE Band 66 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



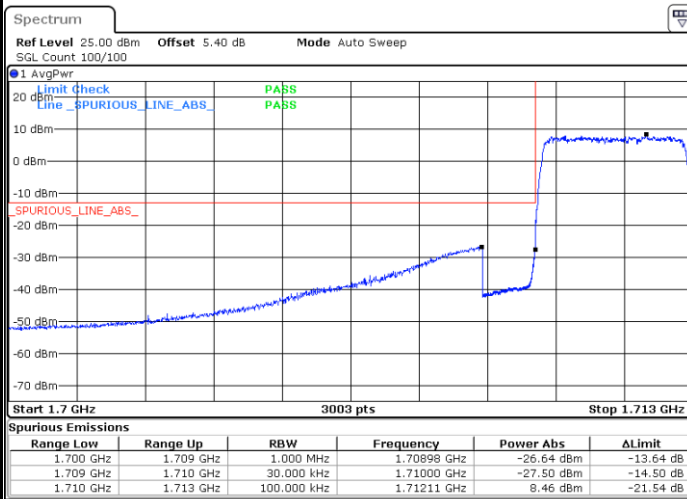
Date: 13.OCT.2022 02:02:42

Highest Band Edge / 1 RB



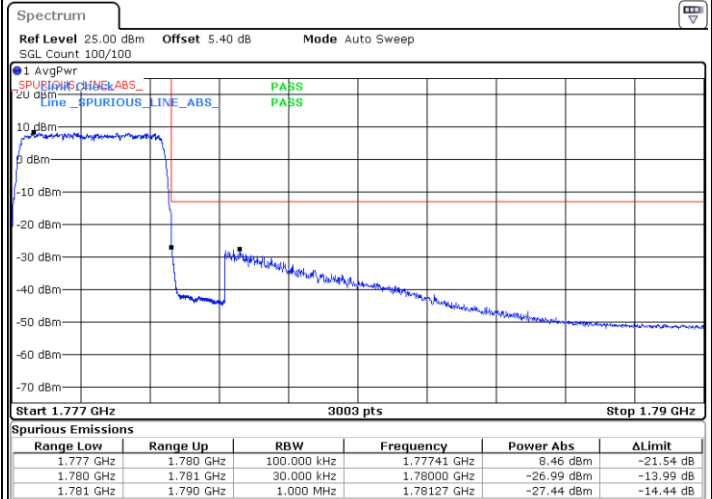
Date: 13.OCT.2022 02:23:11

Lowest Band Edge / Full RB



Date: 13.OCT.2022 02:09:59

Highest Band Edge / Full RB

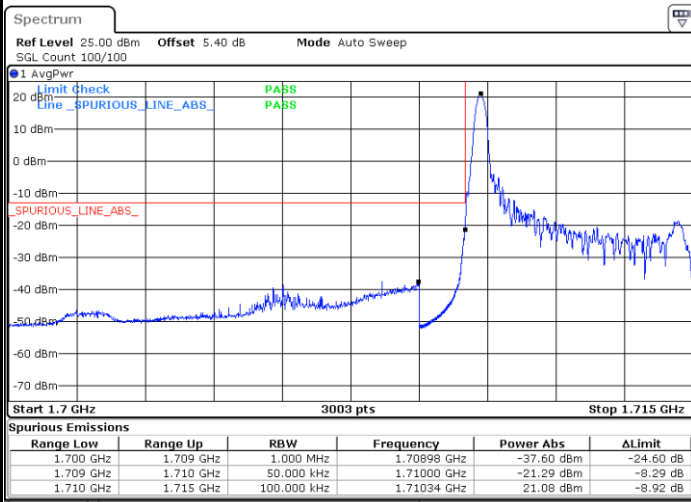


Date: 13.OCT.2022 02:30:28



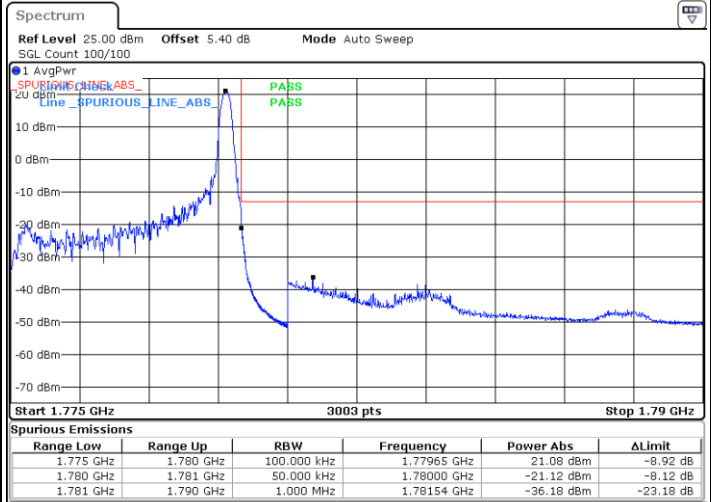
LTE Band 66 / 5MHz / QPSK

Lowest Band Edge / 1 RB



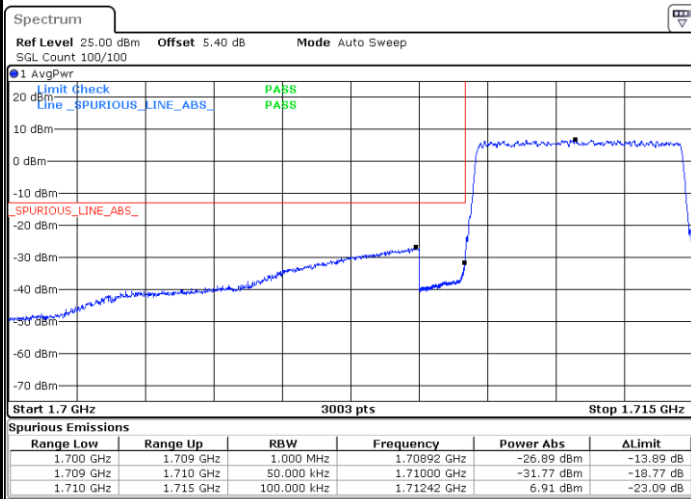
Date: 13.OCT.2022 02:38:18

Highest Band Edge / 1 RB



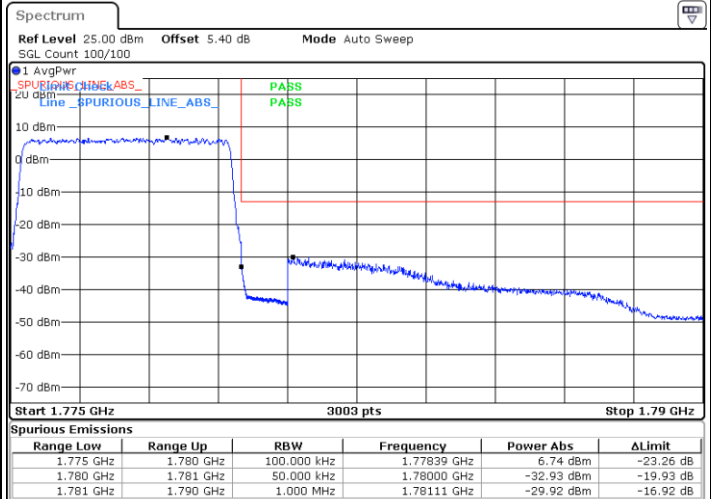
Date: 13.OCT.2022 02:58:47

Lowest Band Edge / Full RB



Date: 13.OCT.2022 02:50:24

Highest Band Edge / Full RB

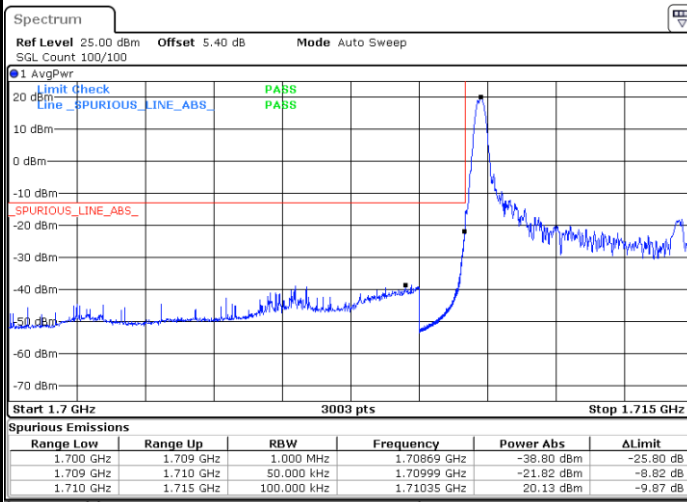


Date: 13.OCT.2022 03:10:55



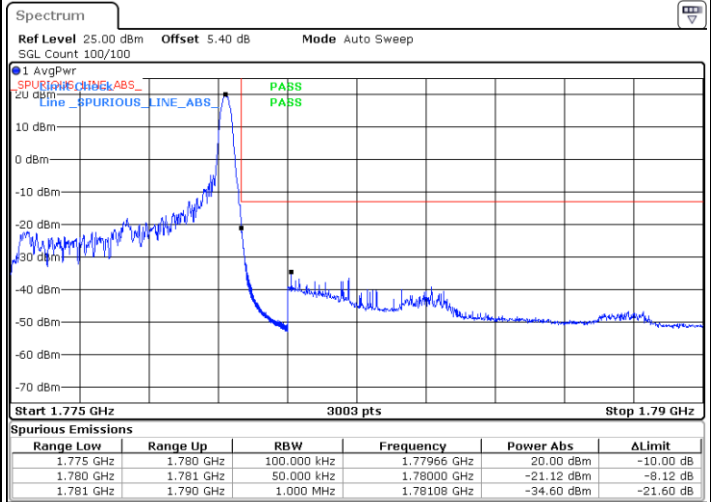
LTE Band 66 / 5MHz / 16QAM

Lowest Band Edge / 1RB



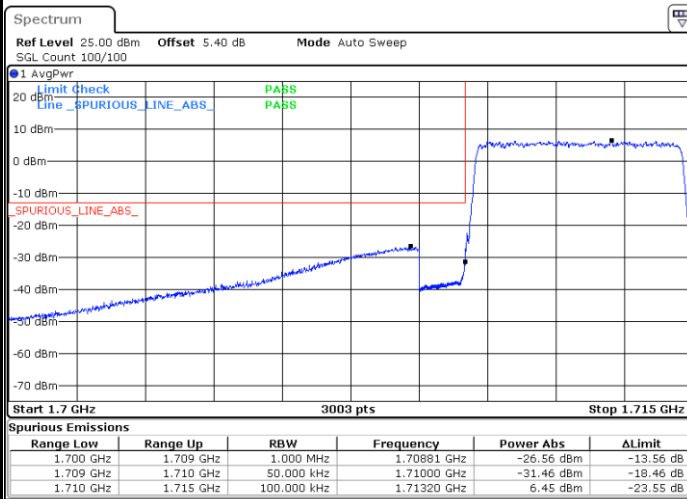
Date: 13.OCT.2022 02:40:43

Highest Band Edge / 1 RB



Date: 13.OCT.2022 03:01:12

Lowest Band Edge / Full RB



Date: 13.OCT.2022 02:47:59

Highest Band Edge / Full RB

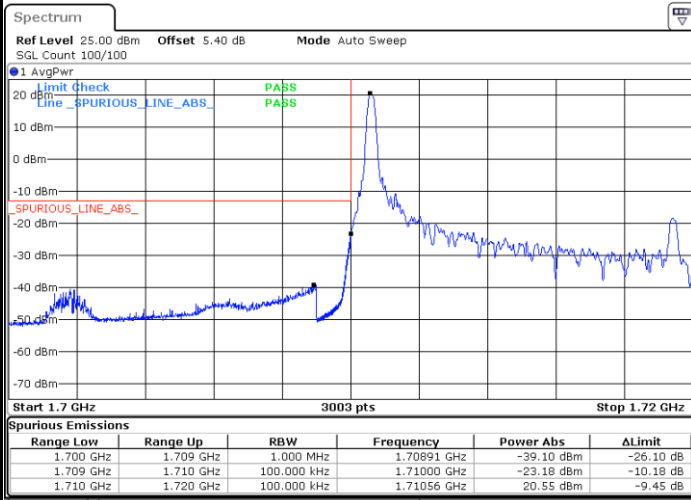


Date: 13.OCT.2022 03:08:29



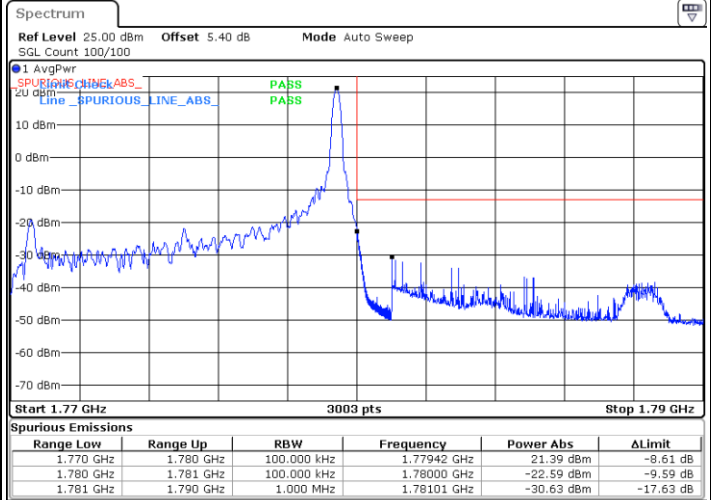
LTE Band 66 / 10MHz / QPSK

Lowest Band Edge / 1 RB



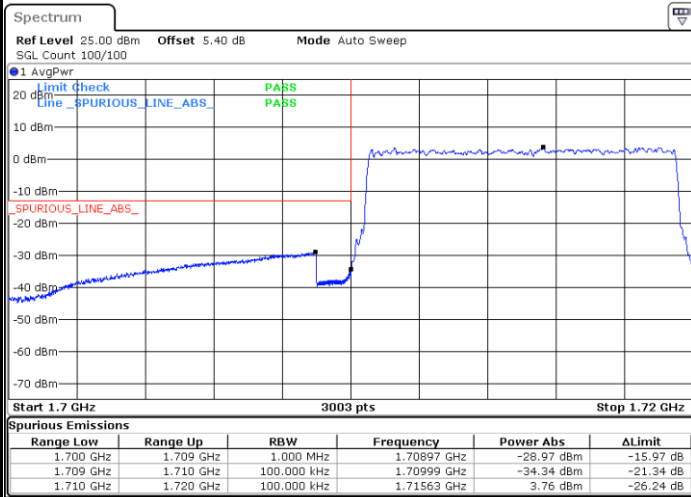
Date: 13.OCT.2022 03:16:18

Highest Band Edge / 1 RB



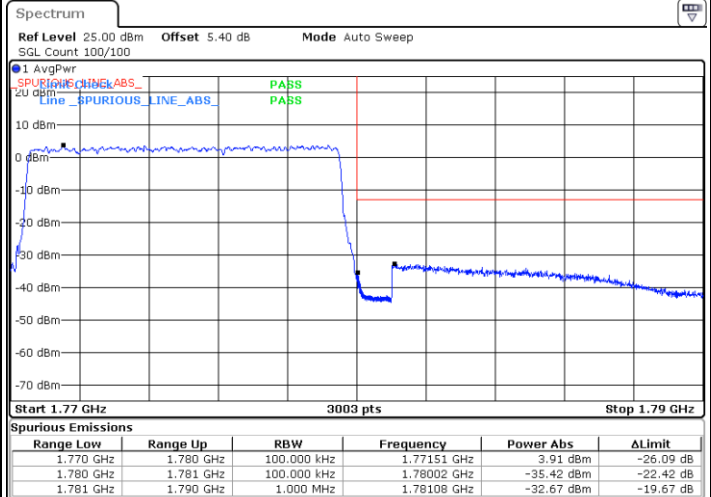
Date: 13.OCT.2022 04:03:27

Lowest Band Edge / Full RB



Date: 13.OCT.2022 03:55:05

Highest Band Edge / Full RB

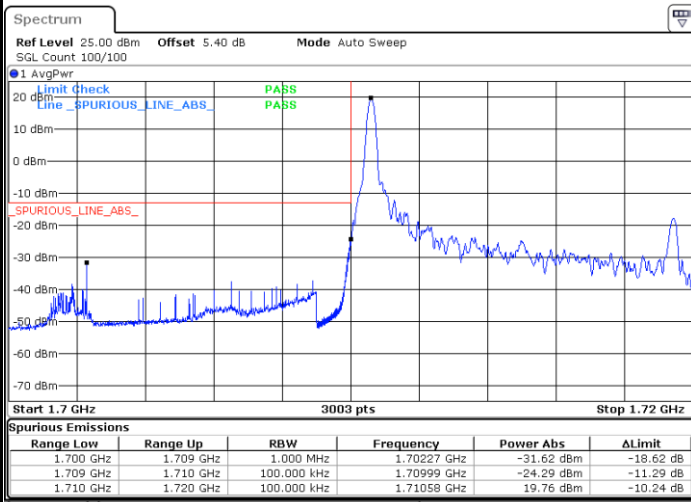


Date: 13.OCT.2022 04:19:02



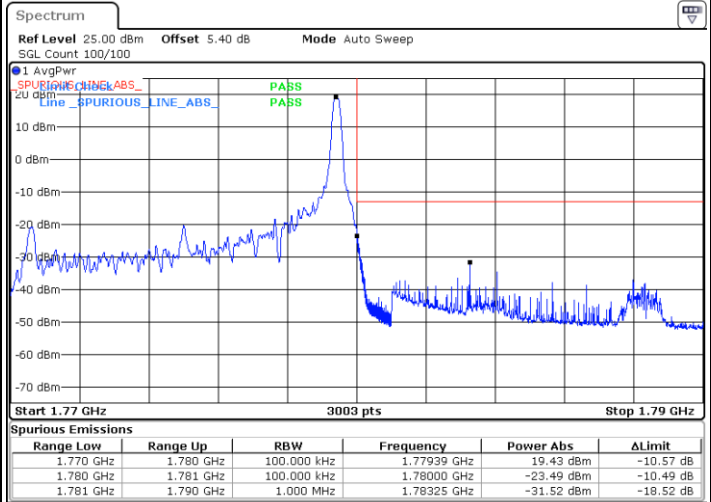
LTE Band 66 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



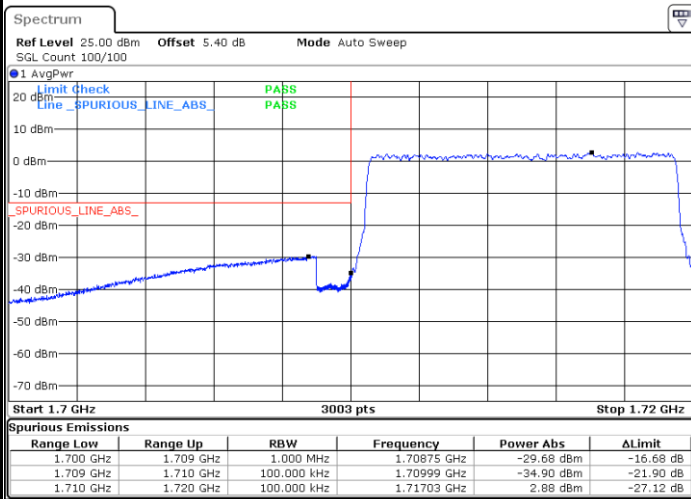
Date: 13.OCT.2022 03:18:44

Highest Band Edge / 1 RB



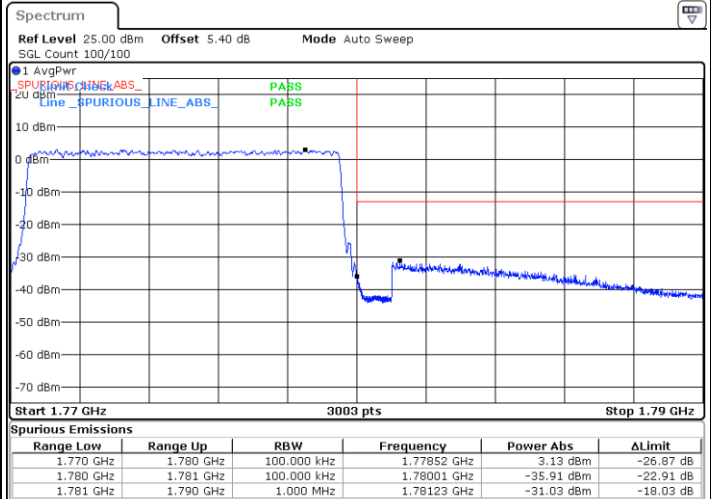
Date: 13.OCT.2022 04:15:21

Lowest Band Edge / Full RB



Date: 13.OCT.2022 03:25:59

Highest Band Edge / Full RB

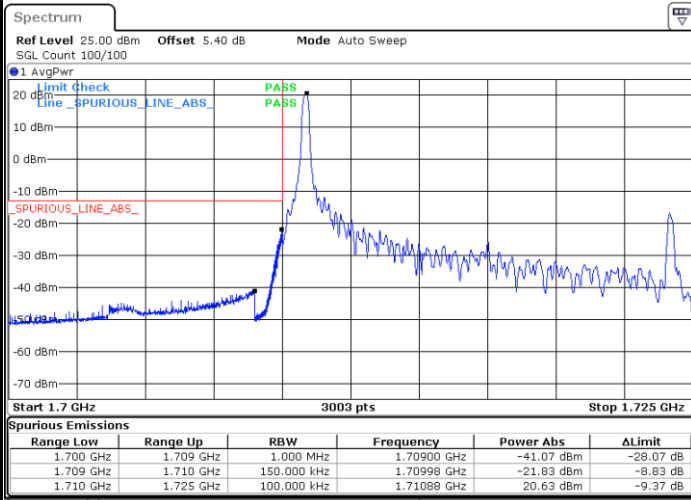


Date: 13.OCT.2022 04:18:08



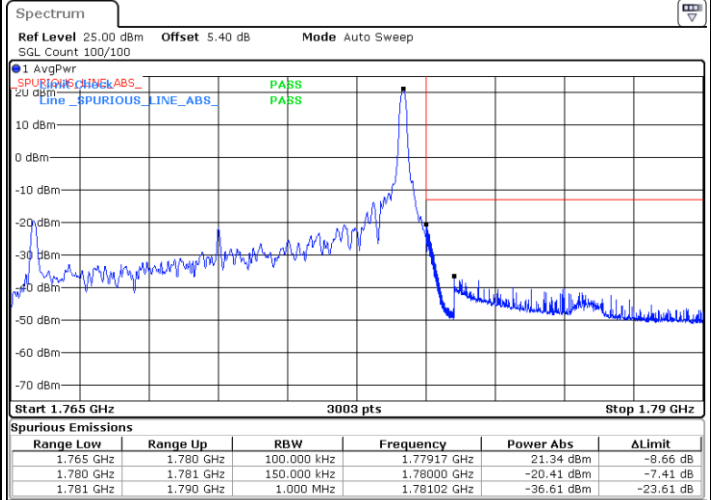
LTE Band 66 / 15MHz / QPSK

Lowest Band Edge / 1 RB



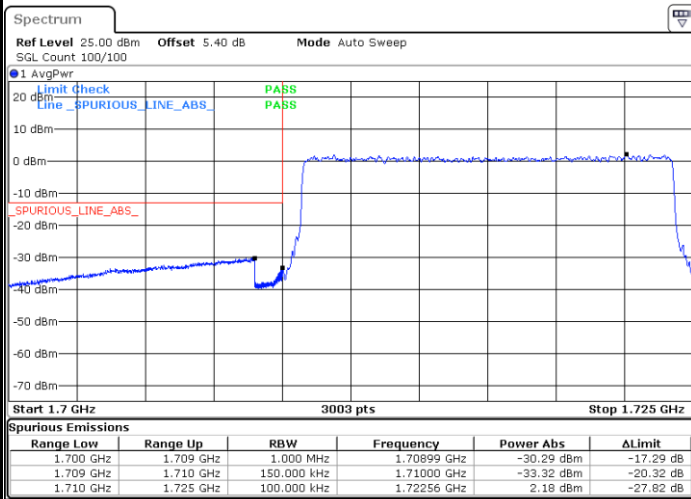
Date: 13.OCT.2022 04:22:56

Highest Band Edge / 1 RB



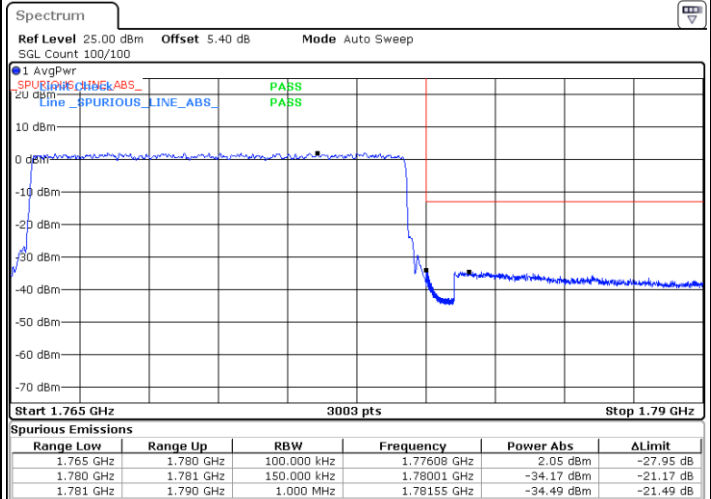
Date: 13.OCT.2022 04:34:24

Lowest Band Edge / Full RB



Date: 13.OCT.2022 04:27:33

Highest Band Edge / Full RB

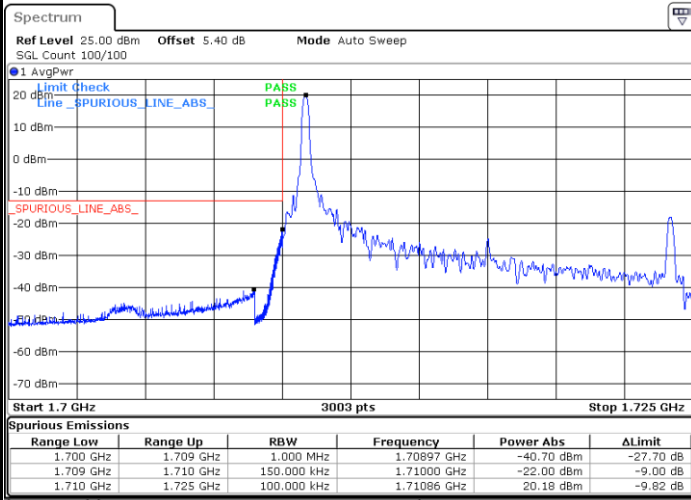


Date: 13.OCT.2022 04:39:01



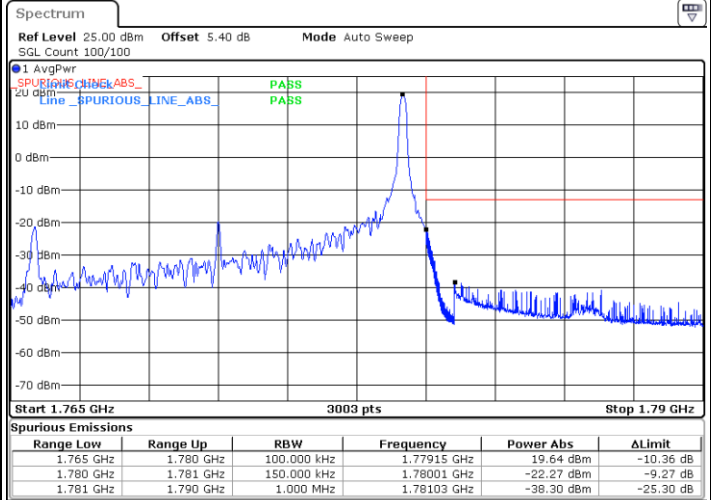
LTE Band 66 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



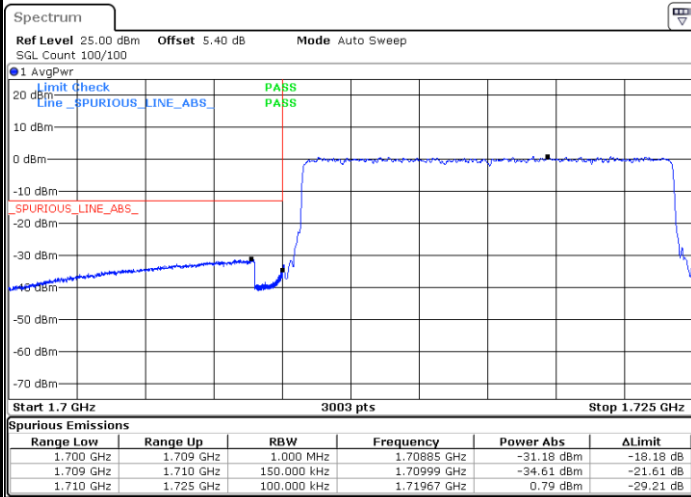
Date: 13.OCT.2022 04:23:51

Highest Band Edge / 1 RB



Date: 13.OCT.2022 04:35:19

Lowest Band Edge / Full RB



Date: 13.OCT.2022 04:26:38

Highest Band Edge / Full RB

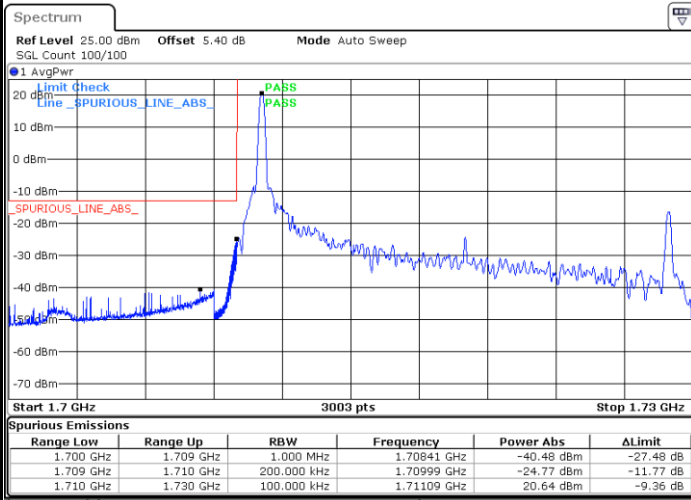


Date: 13.OCT.2022 04:38:05



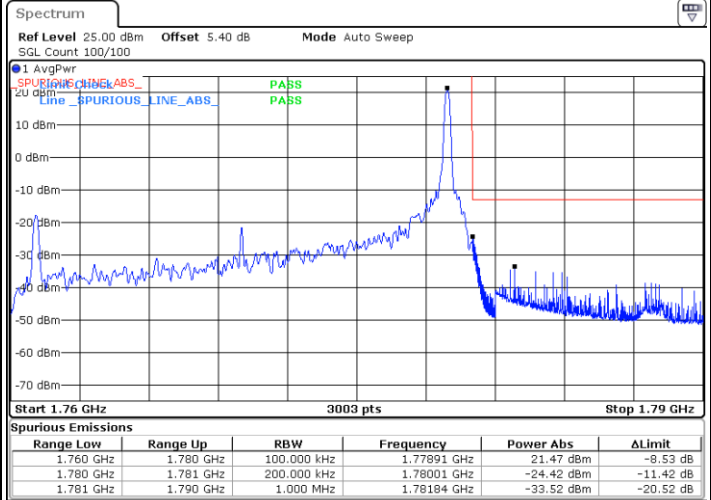
LTE Band 66 / 20MHz / QPSK

Lowest Band Edge / 1 RB



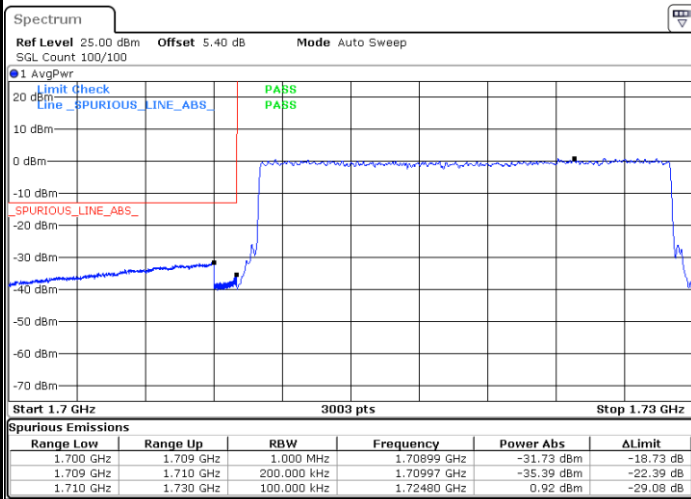
Date: 13.OCT.2022 04:42:55

Highest Band Edge / 1 RB



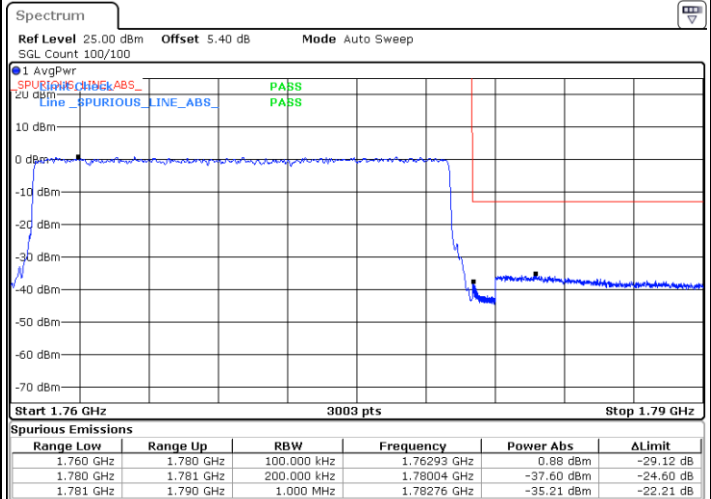
Date: 13.OCT.2022 04:54:23

Lowest Band Edge / Full RB



Date: 13.OCT.2022 04:47:32

Highest Band Edge / Full RB

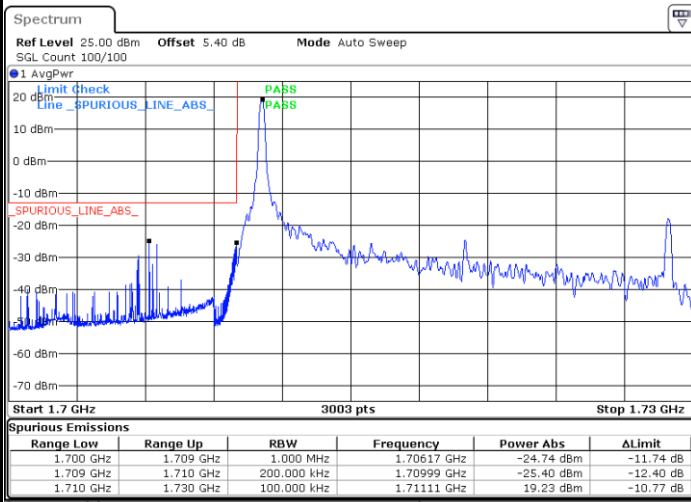


Date: 13.OCT.2022 04:58:56



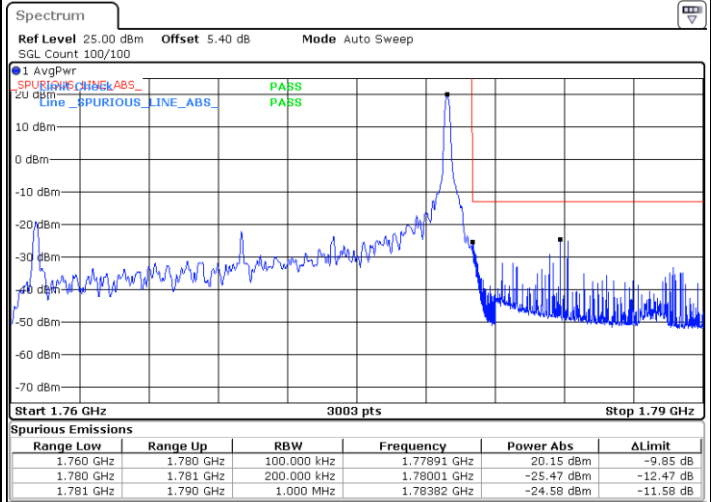
LTE Band 66 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



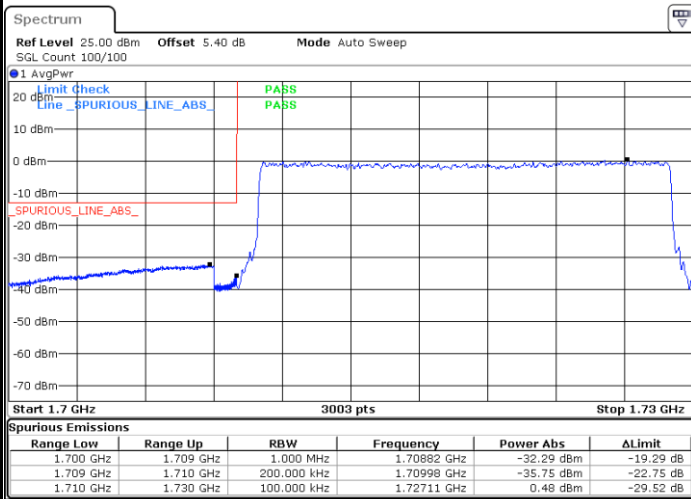
Date: 13.OCT.2022 04:43:50

Highest Band Edge / 1 RB



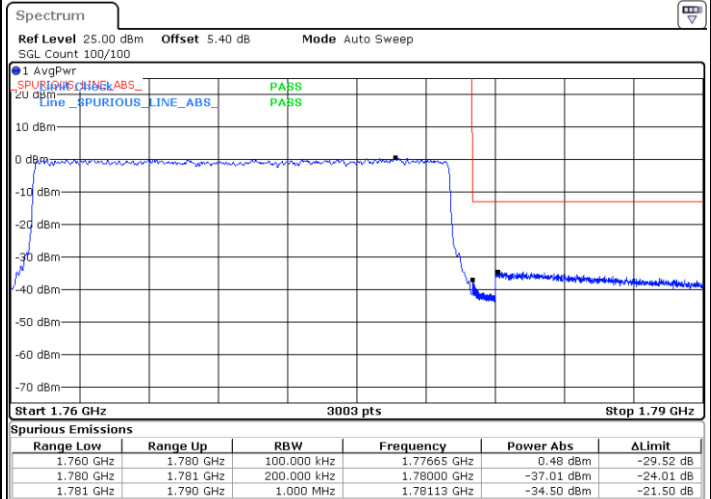
Date: 13.OCT.2022 04:55:17

Lowest Band Edge / Full RB



Date: 13.OCT.2022 04:46:37

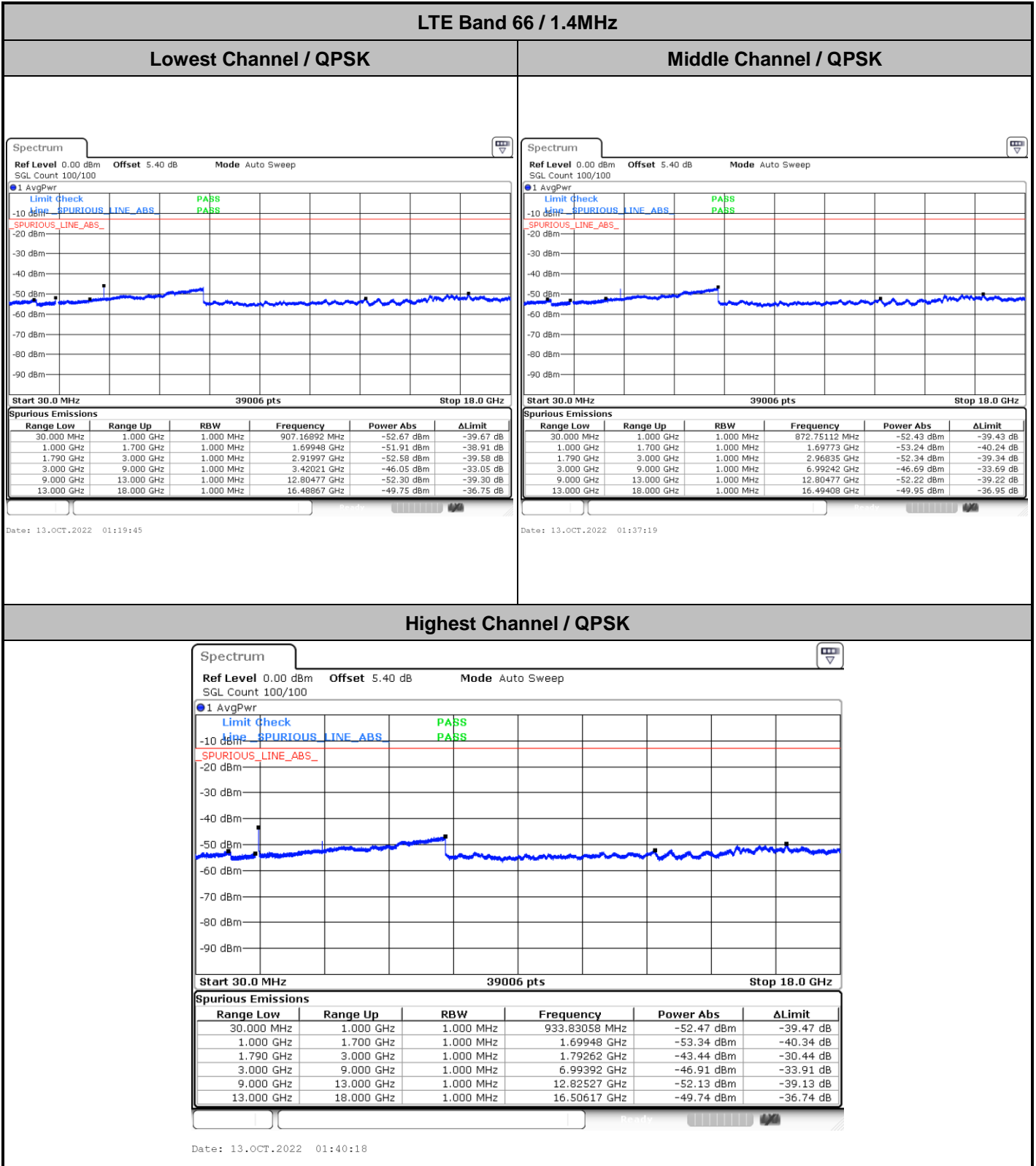
Highest Band Edge / Full RB



Date: 13.OCT.2022 04:58:01



Conducted Spurious Emission

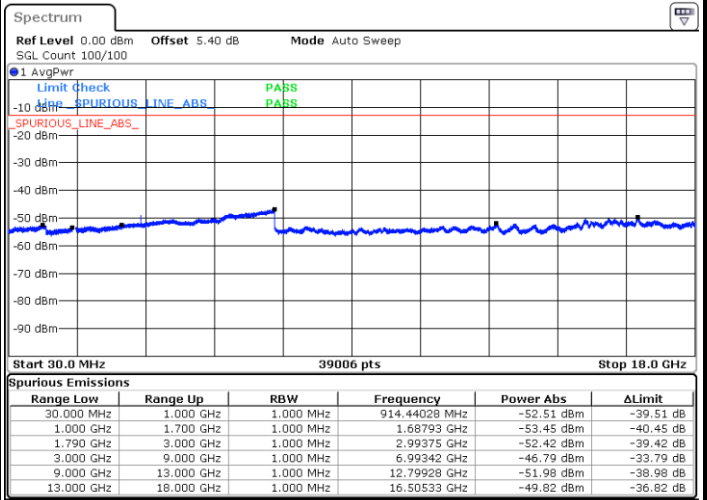
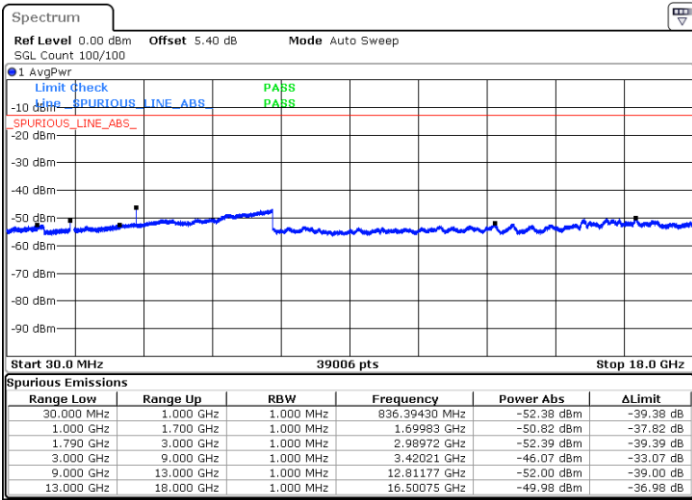




LTE Band 66 / 3MHz

Lowest Channel / QPSK

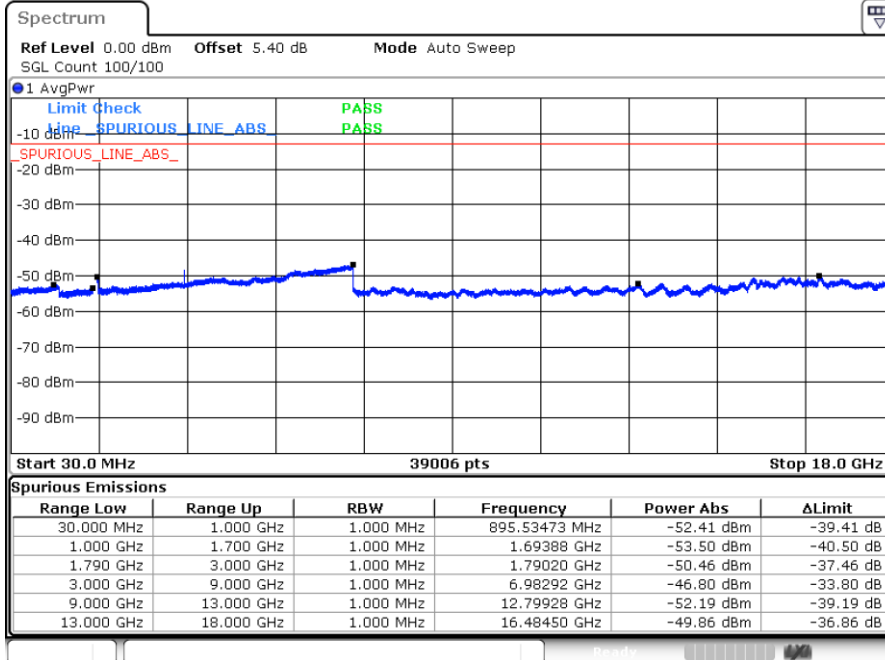
Middle Channel / QPSK



Date: 13.OCT.2022 01:57:51

Date: 13.OCT.2022 02:15:22

Highest Channel / QPSK



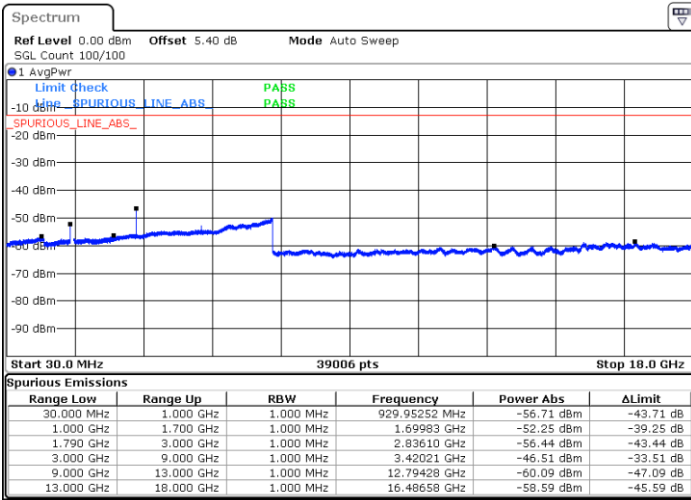
Date: 13.OCT.2022 02:18:20



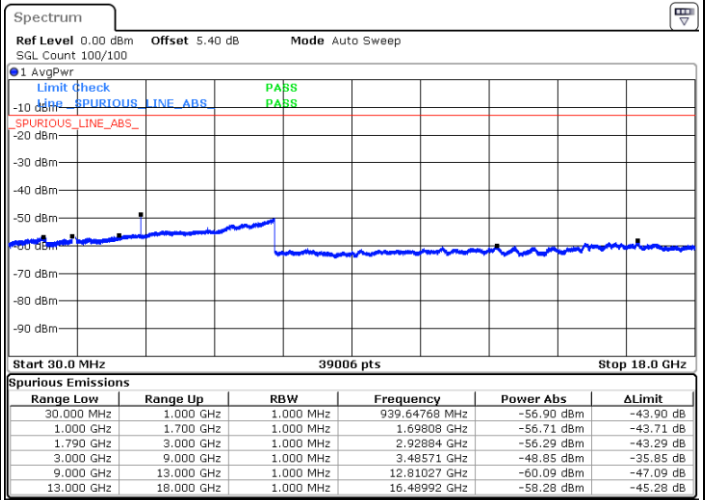
LTE Band 66 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

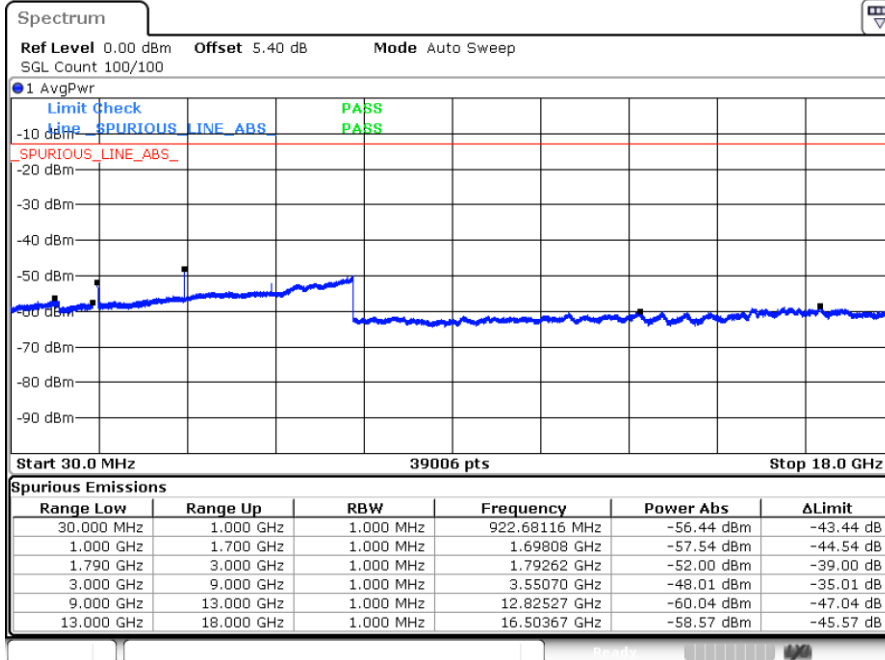


Date: 13.OCT.2022 02:35:52



Date: 13.OCT.2022 02:53:22

Highest Channel / QPSK



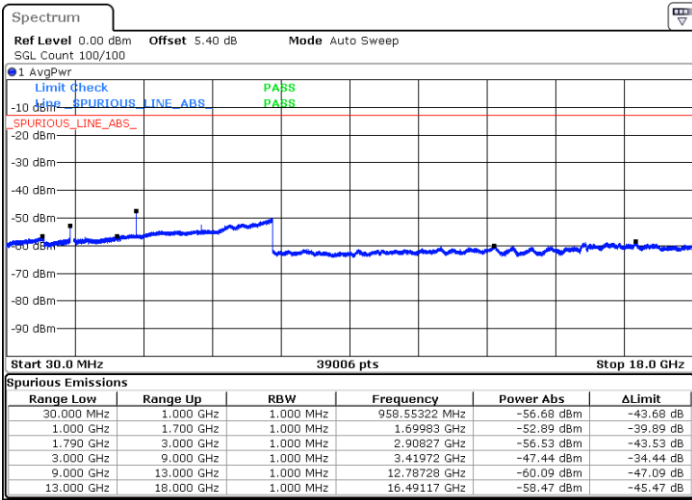
Date: 13.OCT.2022 02:56:21



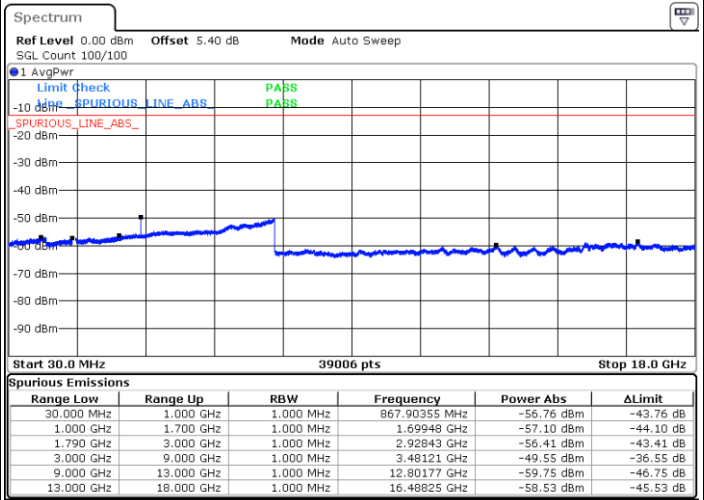
LTE Band 66 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

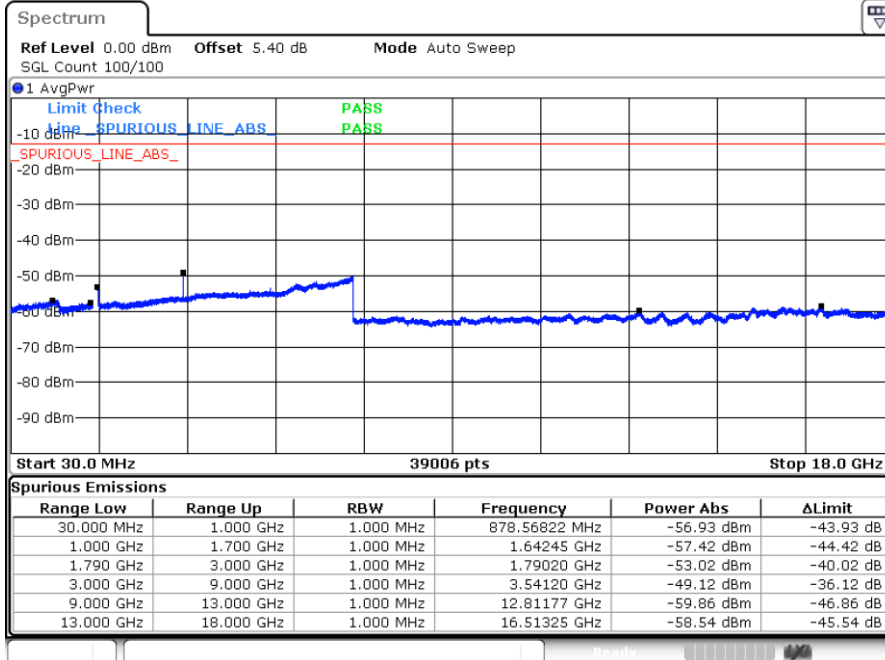


Date: 13.OCT.2022 03:13:53



Date: 13.OCT.2022 03:58:03

Highest Channel / QPSK



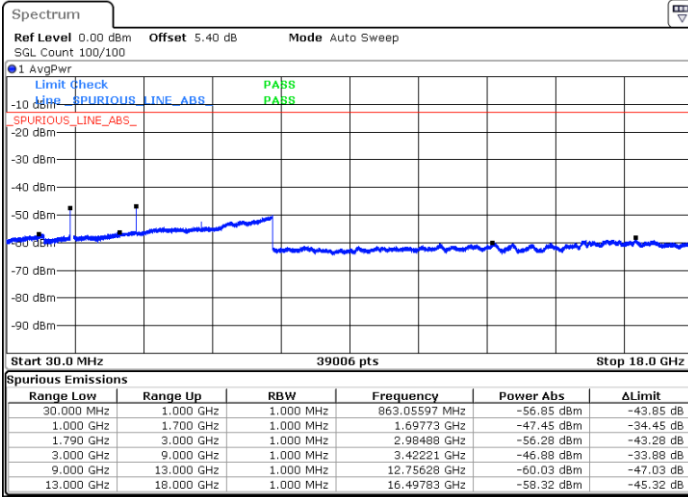
Date: 13.OCT.2022 04:01:01



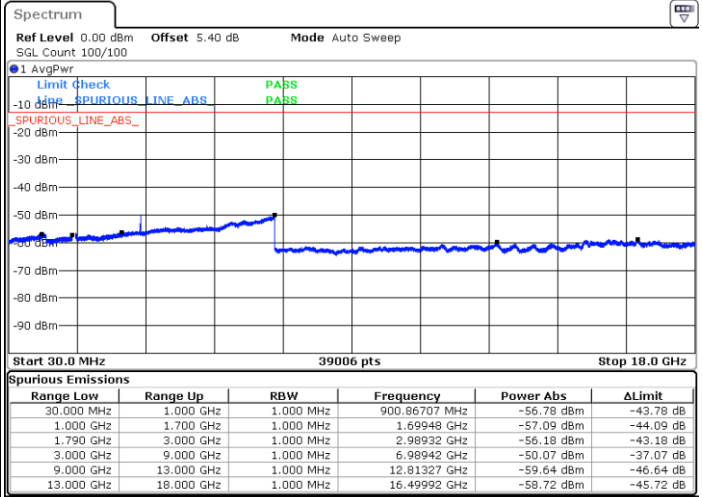
LTE Band 66 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

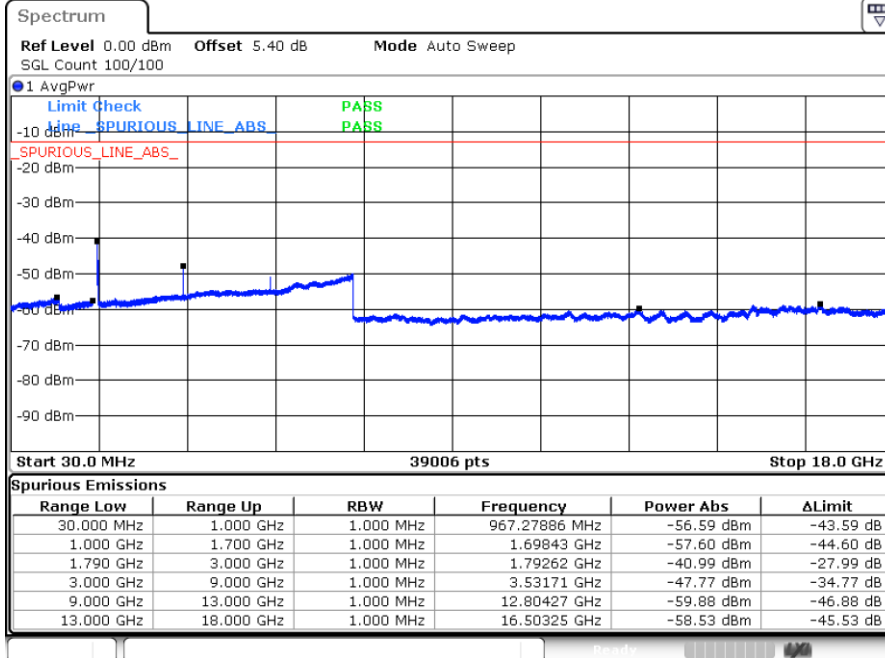


Date: 13.OCT.2022 04:22:01



Date: 13.OCT.2022 04:30:31

Highest Channel / QPSK



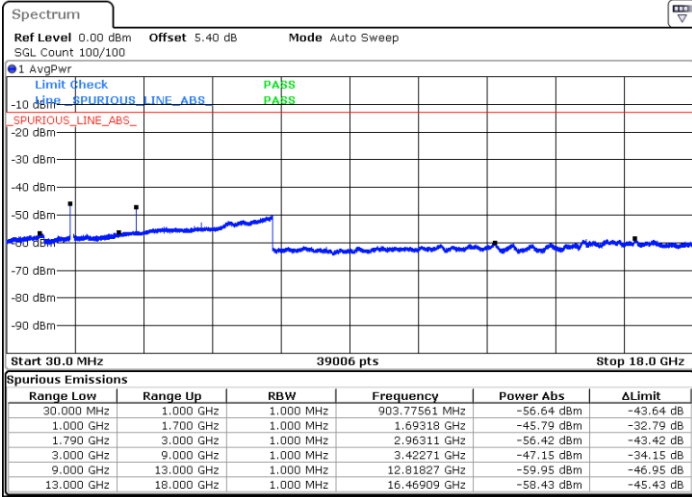
Date: 13.OCT.2022 04:33:29



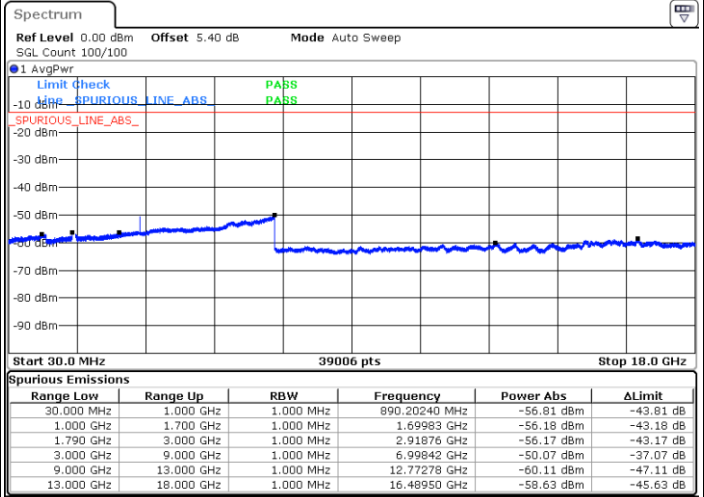
LTE Band 66 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

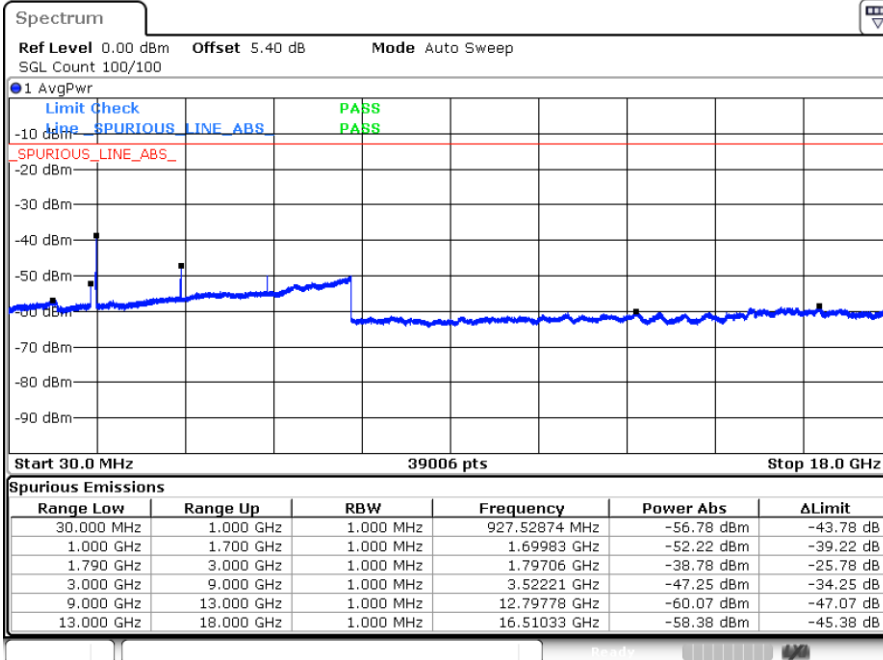


Date: 13.OCT.2022 04:42:00



Date: 13.OCT.2022 04:50:29

Highest Channel / QPSK



Date: 13.OCT.2022 04:53:27



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	0.0026	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage =3.87 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

Test Engineer :	Zhaohui Liang	Temperature :	22~25°C
		Relative Humidity :	48~52%

LTE Band 2 / 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	3742.18	-53.57	-13	-40.57	-76.46	-60.32	5.85	12.60	H
	5613.27	-57.22	-13	-44.22	-81.50	-63.02	7.30	13.10	H
	7484.36	-55.74	-13	-42.74	-82.20	-58.89	8.35	11.50	H
	3742.18	-50.02	-13	-37.02	-74.92	-56.77	5.85	12.60	V
	5613.27	-56.70	-13	-43.70	-81.83	-62.50	7.30	13.10	V
	7484.36	-55.76	-13	-42.76	-82.2	-58.91	8.35	11.50	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5052.18	-57.86	-25	-32.86	-80.96	-63.42	7.14	12.70	H
	7578.27	-55.96	-25	-30.96	-82.04	-59.26	8.30	11.60	H
	10104.36	-52.94	-25	-27.94	-83.14	-54.46	10.48	12.00	H
	5052.18	-56.56	-25	-31.56	-80.99	-62.12	7.14	12.70	V
	7578.27	-55.66	-25	-30.66	-81.74	-58.96	8.30	11.60	V
	10104.36	-51.99	-25	-26.99	-83.17	-53.51	10.48	12.00	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1559.5	-65.07	-42.15	-22.92	-76.36	-68.32	4.00	9.40	H
	2339.25	-58.68	-13	-45.68	-76.66	-62.25	4.88	10.60	H
	3119	-58.56	-13	-45.56	-78.65	-63.49	5.52	12.60	H
	1559.5	-64.59	-42.15	-22.44	-76.50	-67.84	4.00	9.40	V
	2339.25	-58.62	-13	-45.62	-76.97	-62.19	4.88	10.60	V
	3119	-57.01	-13	-44.01	-78.90	-61.94	5.52	12.60	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1559.5	-64.96	-42.15	-22.81	-76.25	-68.21	4.00	9.40	H
	2339.25	-60.15	-13	-47.15	-78.13	-63.72	4.88	10.60	H
	3119	-58.63	-13	-45.63	-78.72	-63.56	5.52	12.60	H
	1559.5	-64.12	-42.15	-21.97	-76.03	-67.37	4.00	9.40	V
	2339.25	-59.82	-13	-46.82	-78.17	-63.39	4.88	10.60	V
	3119	-56.87	-13	-43.87	-78.76	-61.80	5.52	12.60	V

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

LTE Band 26 / 15MHz / QPSK									
Channel	Frequency (MHz)	ERP (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	1659.5	-65.16	-13	-52.16	-76.81	-68.41	4.00	9.40	H
	2489.25	-60.34	-13	-47.34	-79.11	-63.91	4.88	10.60	H
	3319	-58.74	-13	-45.74	-79.62	-63.67	5.52	12.60	H
	1659.5	-62.51	-13	-49.51	-74.83	-65.76	4.00	9.40	V
	2489.25	-59.81	-13	-46.81	-78.84	-63.38	4.88	10.60	V
	3319	-58.28	-13	-45.28	-79.86	-63.21	5.52	12.60	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5172.00	-57.41	-25	-32.41	-81.33	-62.97	7.14	12.70	H
	7758.00	-55.93	-25	-30.93	-81.46	-59.23	8.30	11.60	H
	10344.00	-52.43	-25	-27.43	-83.06	-53.95	10.48	12.00	H
	5172.00	-56.93	-25	-31.93	-81.35	-62.49	7.14	12.70	V
	7758.00	-52.74	-25	-27.74	-81.7	-56.04	8.30	11.60	V
	10344.00	-50.97	-25	-25.97	-83.4	-52.49	10.48	12.00	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	-58.30	-13	-45.30	-80.25	-65.15	5.65	12.50	H
	5208	-52.97	-13	-39.97	-77.19	-58.64	7.13	12.80	H
	6944	-56.47	-13	-43.47	-82.18	-59.87	8.40	11.80	H
	3472	-57.57	-13	-44.57	-79.32	-64.42	5.65	12.50	V
	5208	-55.43	-13	-42.43	-79.82	-61.10	7.13	12.80	V
	6944	-55.59	-13	-42.59	-82.03	-58.99	8.40	11.80	V

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