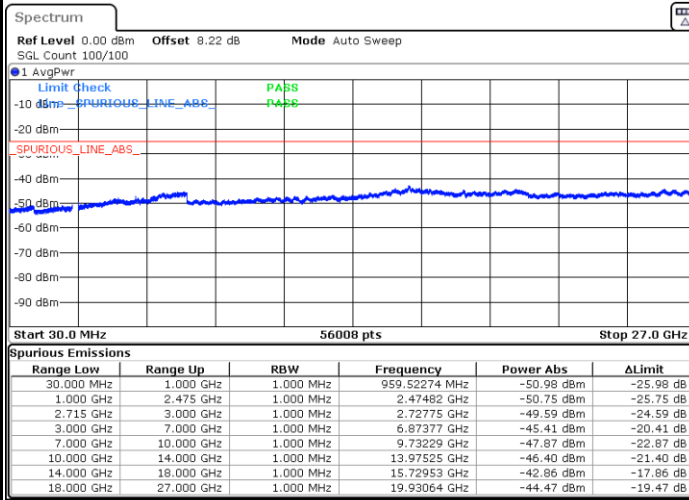




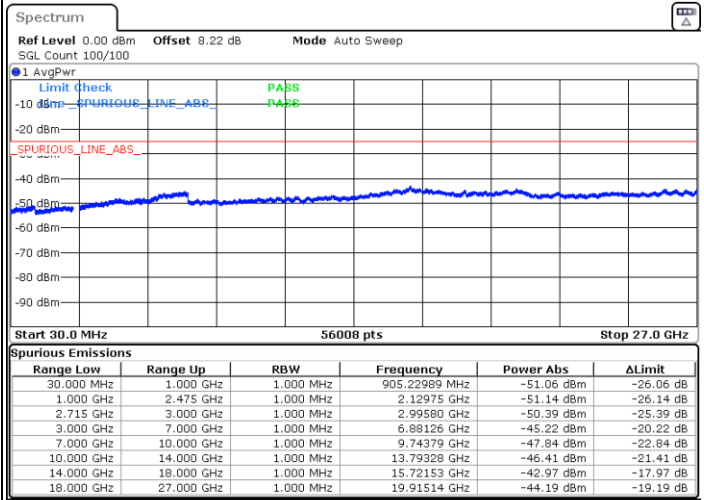
LTE Band 41 / 20MHz

Lowest Channel / QPSK



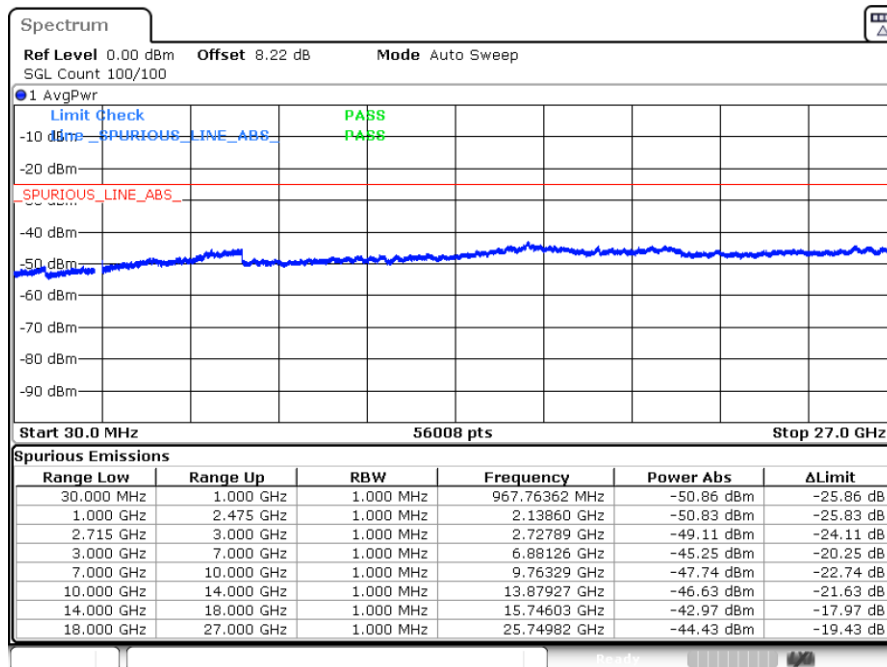
Date: 8.APR.2025 16:58:07

Middle Channel / QPSK



Date: 8.APR.2025 17:05:07

Highest Channel / QPSK



Date: 8.APR.2025 17:06:12

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	0.0028	PASS
40	Normal Voltage	0.0030	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0026	

Note:

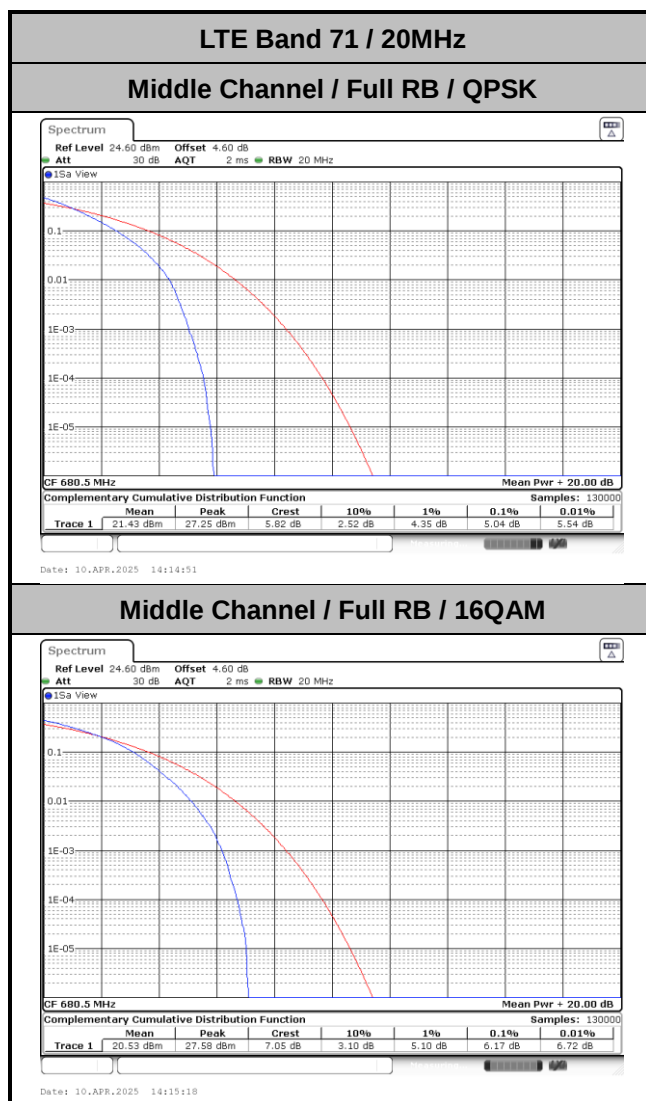
1. Normal Voltage =3.9 V.; Battery End Point (BEP) =3.5 V.; Maximum Voltage =4.35V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

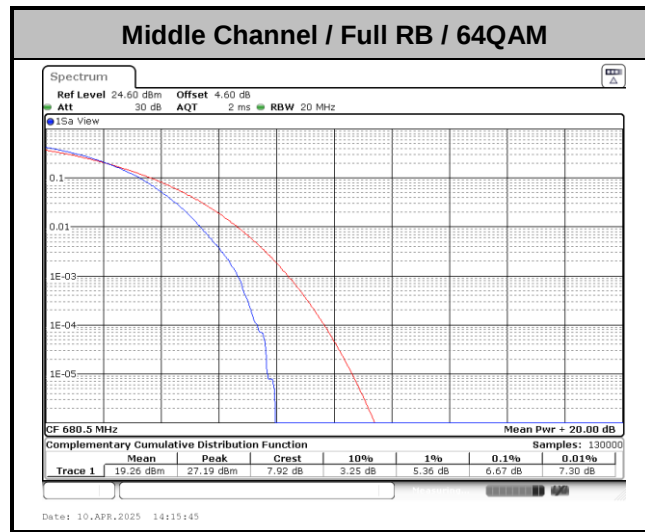


LTE Band 71

Peak-to-Average Ratio

Mode	LTE Band 71 / 20MHz				
Mod.	QPSK	16QAM	64QAM		Limit: 13dB
RB Size	Full RB	Full RB	Full RB		Result
Middle CH	5.04	6.17	6.67		PASS





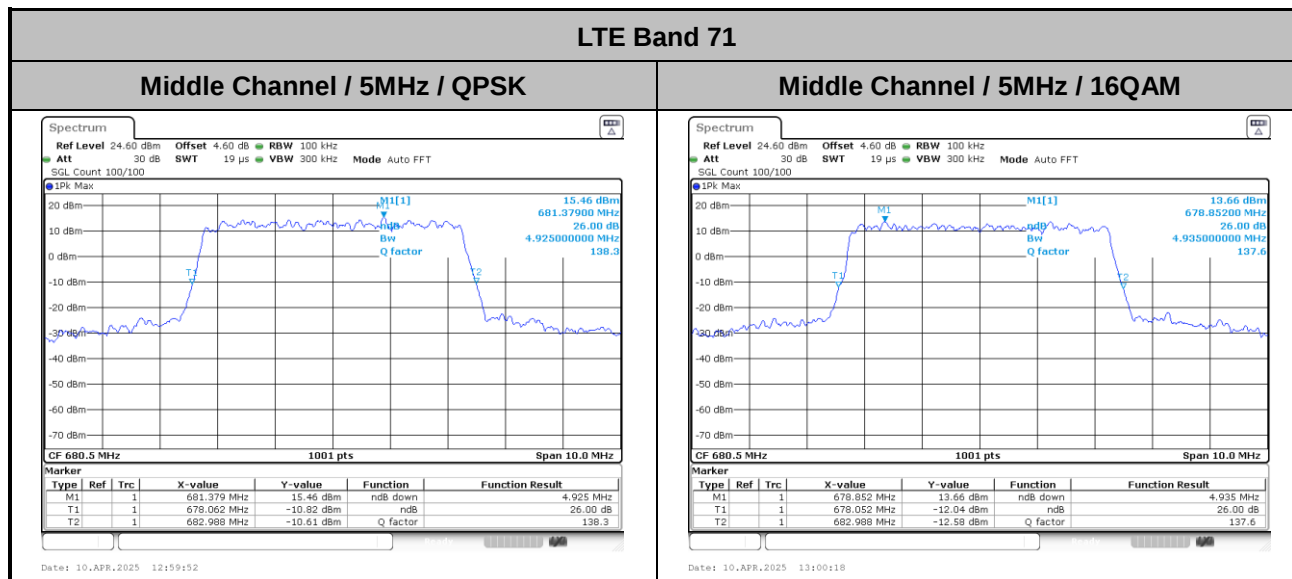
**26dB Bandwidth**

Mode	LTE Band 71 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.93	4.94

Mode	LTE Band 71 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.87	9.85

Mode	LTE Band 71 : 26dB BW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.21	14.39

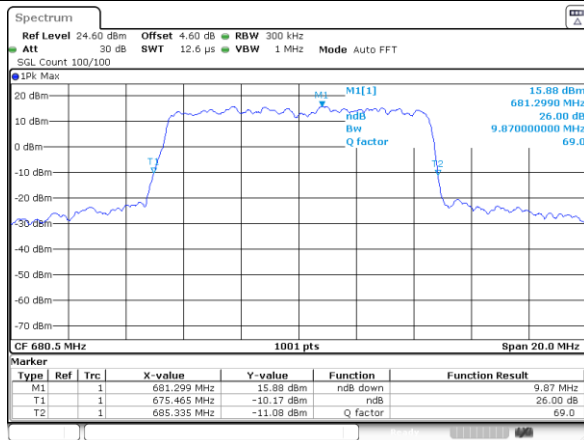
Mode	LTE Band 71 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.34	19.10





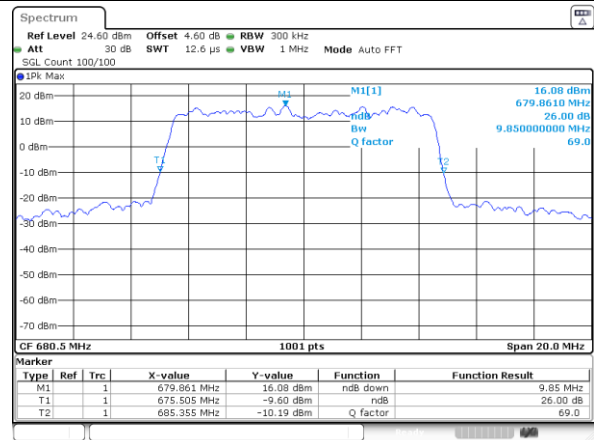
LTE Band 71

Middle Channel / 10MHz / QPSK



Date: 10.APR.2025 13:28:31

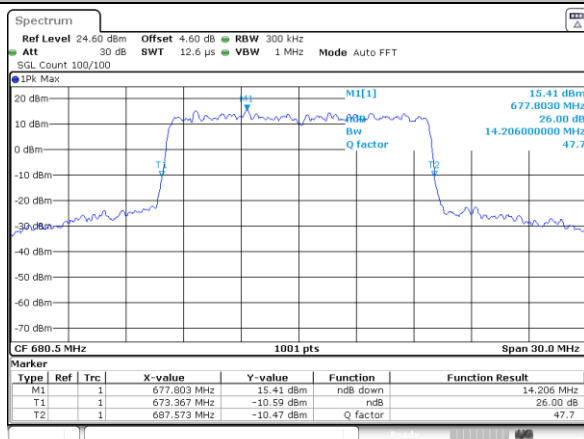
Middle Channel / 10MHz / 16QAM



Date: 10.APR.2025 13:28:57

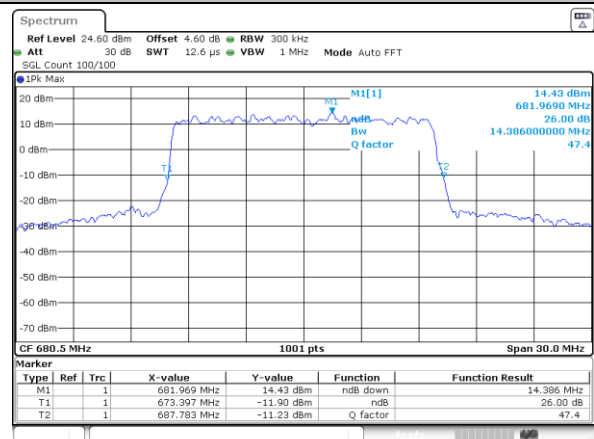
LTE Band 71

Middle Channel / 15MHz / QPSK



Date: 10.APR.2025 13:49:11

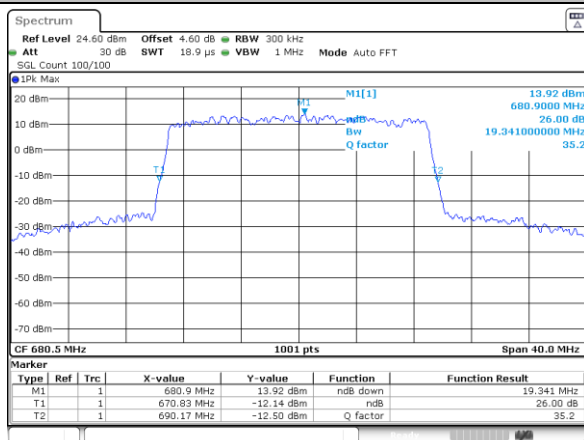
Middle Channel / 15MHz / 16QAM



Date: 10.APR.2025 13:49:36

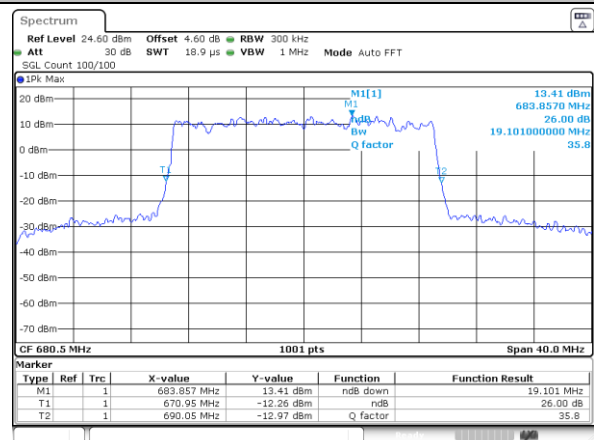
LTE Band 71

Middle Channel / 20MHz / QPSK



Date: 10.APR.2025 14:06:33

Middle Channel / 20MHz / 16QAM

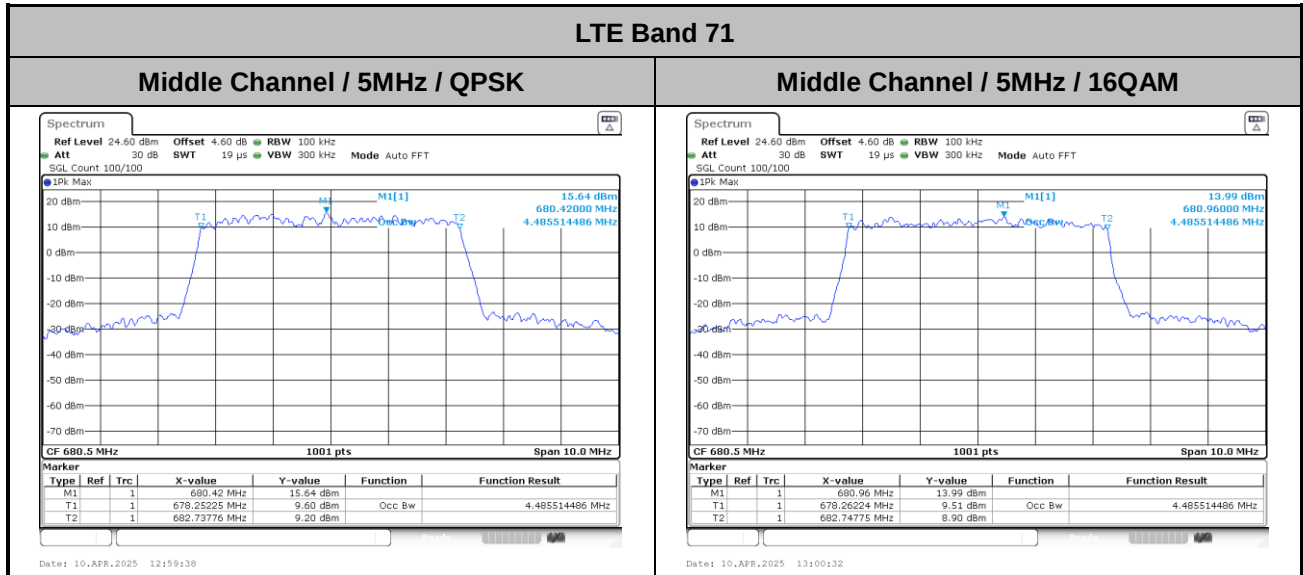


Date: 10.APR.2025 14:06:59



Occupied Bandwidth

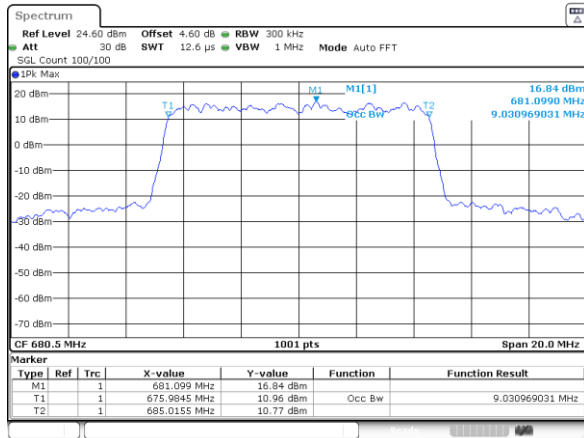
Mode	LTE Band 71 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.49
Mode	LTE Band 71 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	9.01
Mode	LTE Band 71 : 99%OBW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.37	13.34
Mode	LTE Band 71 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.74	17.82



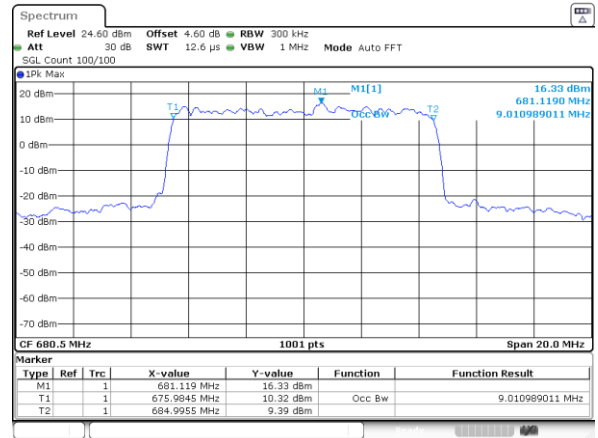


LTE Band 71

Middle Channel / 10MHz / QPSK

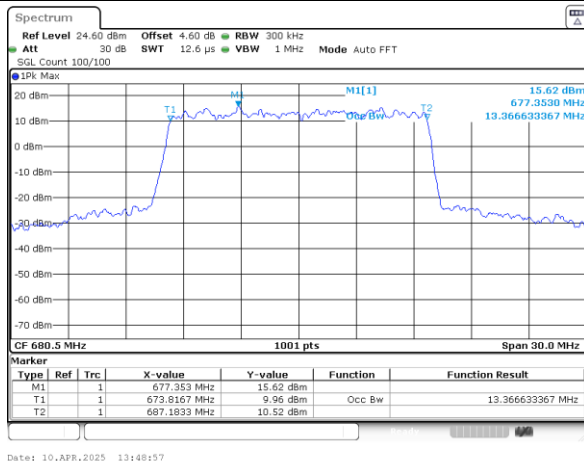


Middle Channel / 10MHz / 16QAM

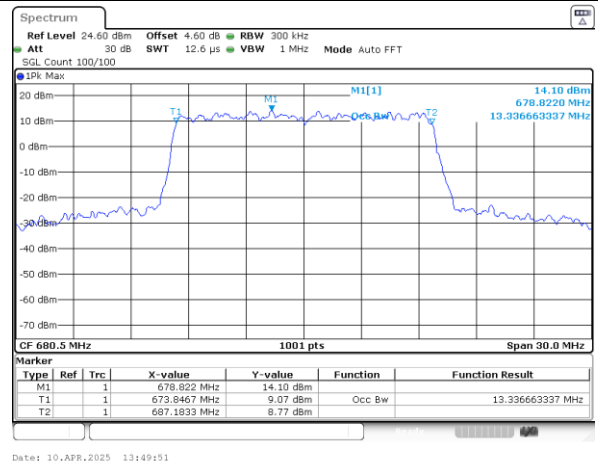


LTE Band 71

Middle Channel / 15MHz / QPSK

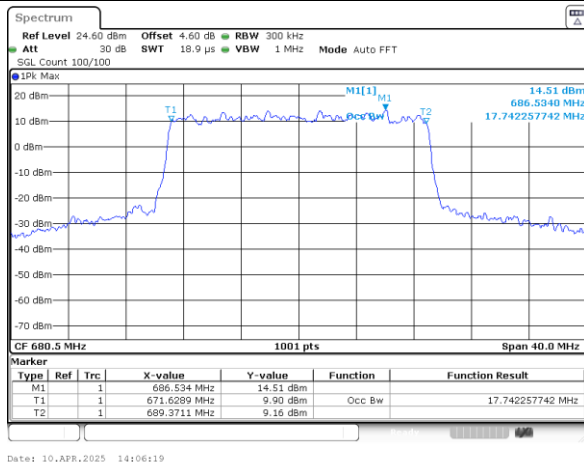


Middle Channel / 15MHz / 16QAM

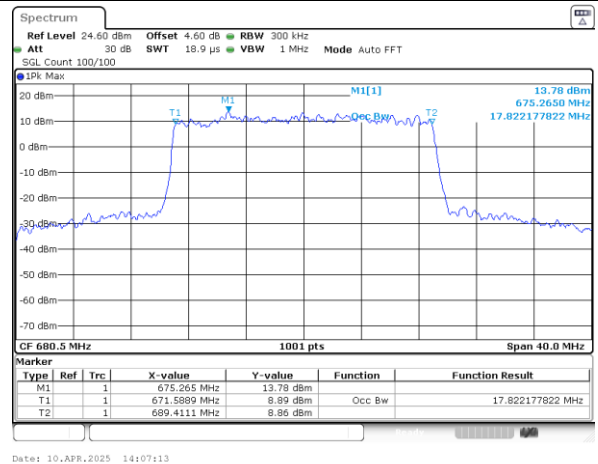


LTE Band 71

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

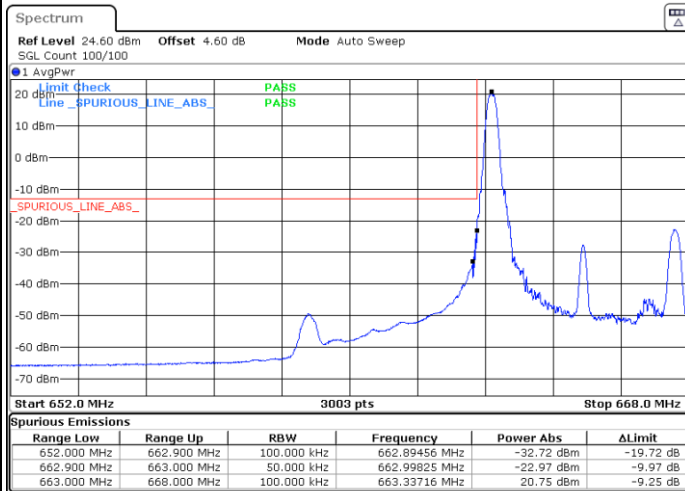




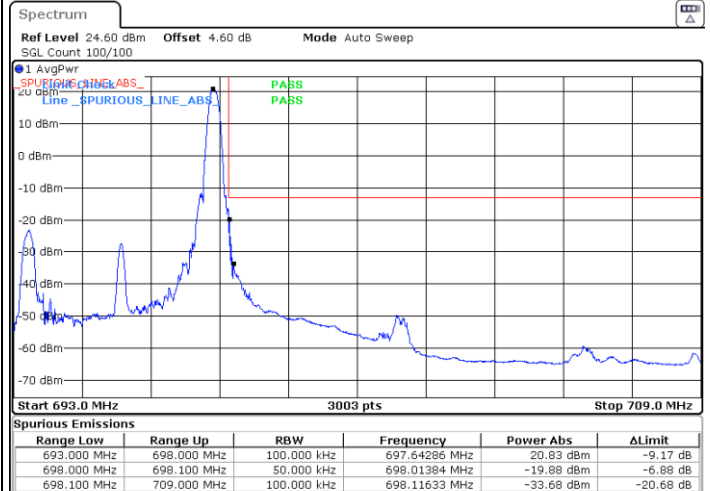
Conducted Band Edge

LTE Band 71 / 5MHz / QPSK

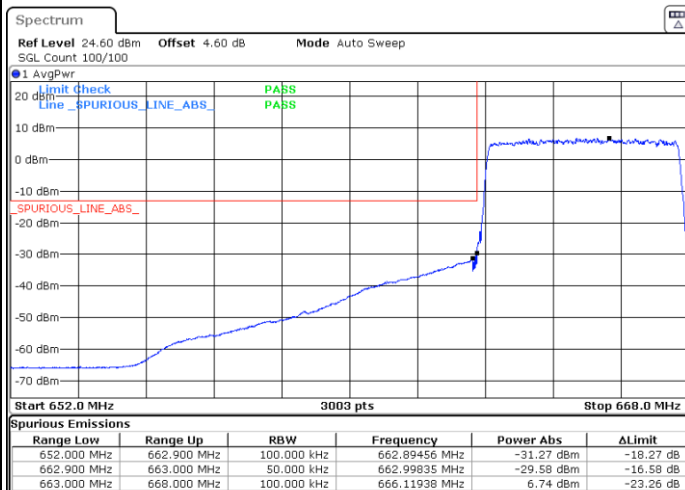
Lowest Band Edge / 1 RB



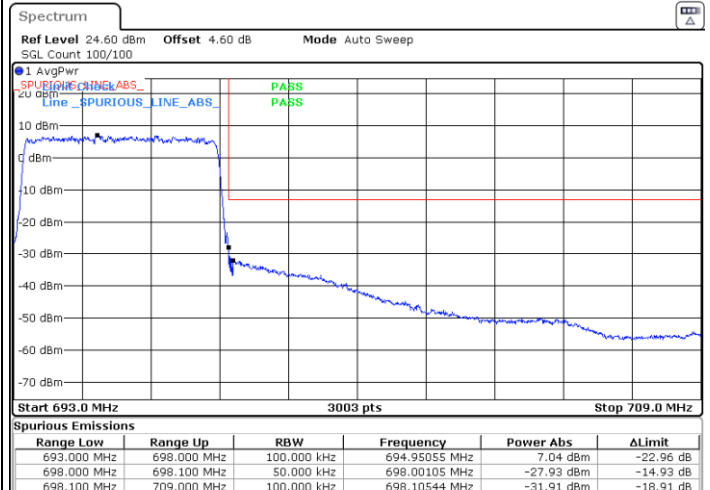
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



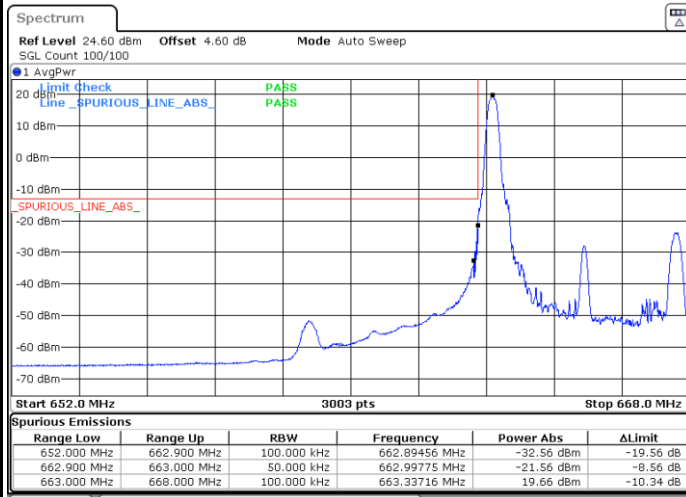
Highest Band Edge / Full RB



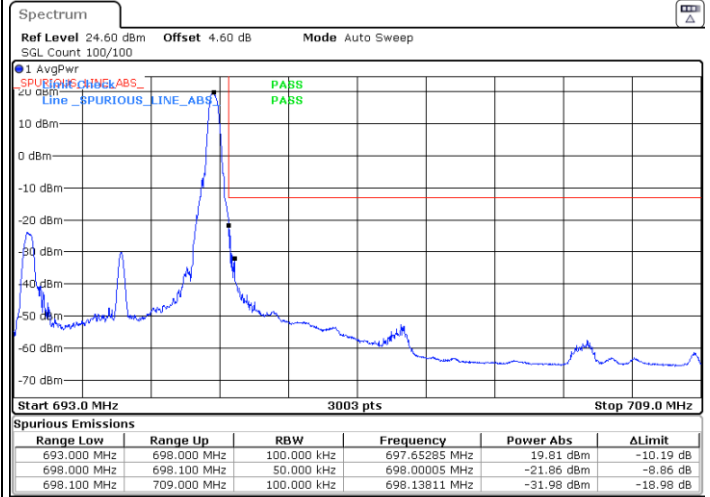


LTE Band 71 / 5MHz / 16QAM

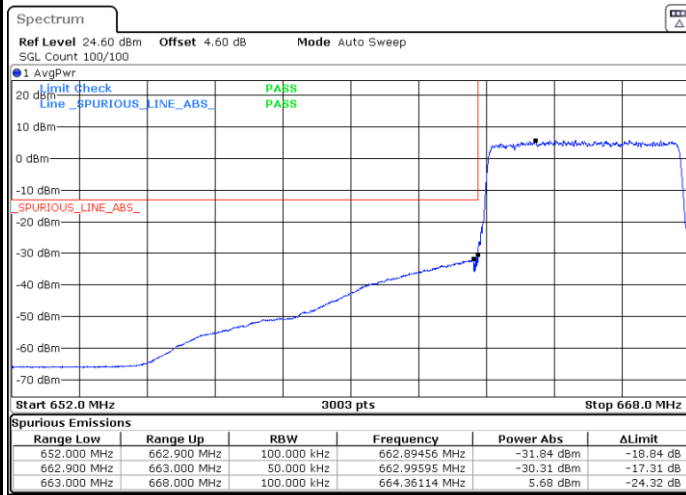
Lowest Band Edge / 1 RB



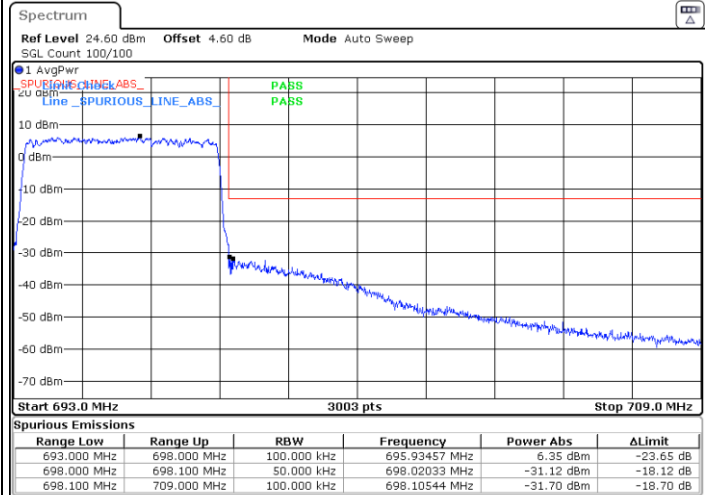
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



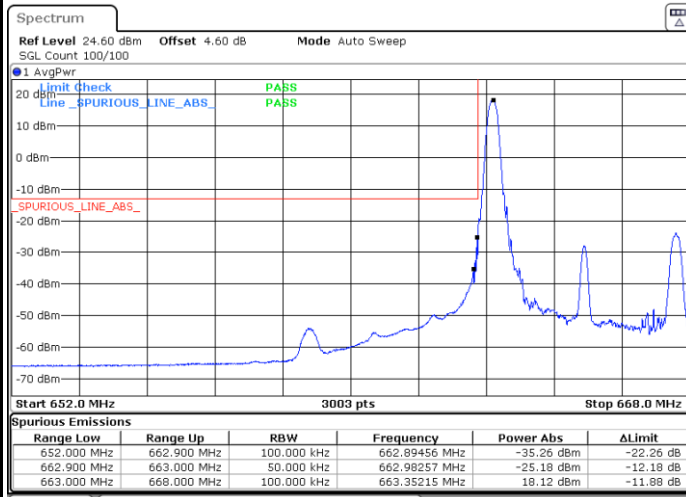
Highest Band Edge / Full RB



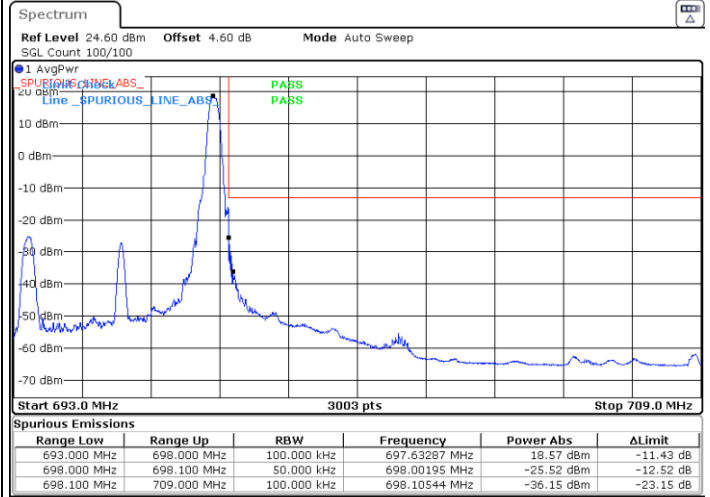


LTE Band 71 / 5MHz / 64QAM

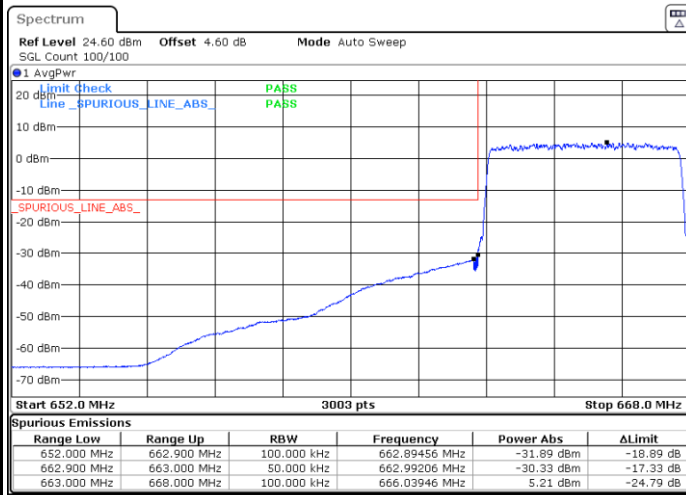
Lowest Band Edge / 1RB



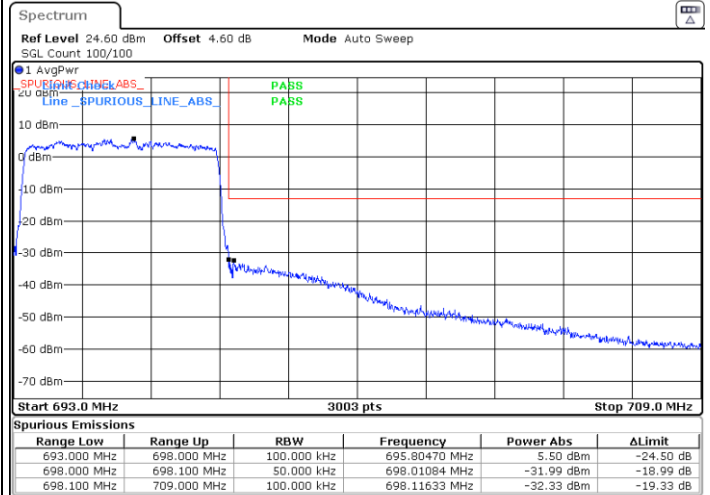
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



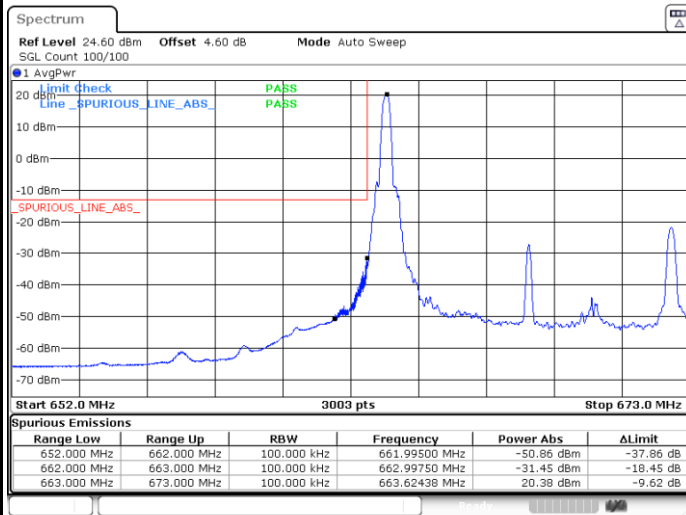
Highest Band Edge / Full RB



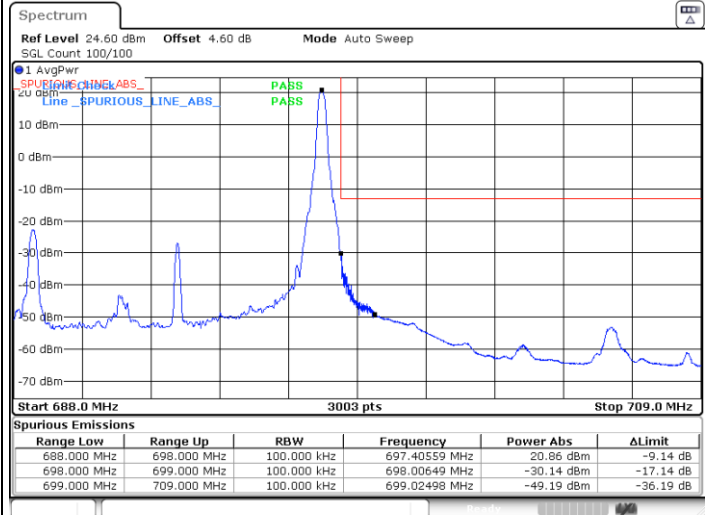


LTE Band 71 / 10MHz / QPSK

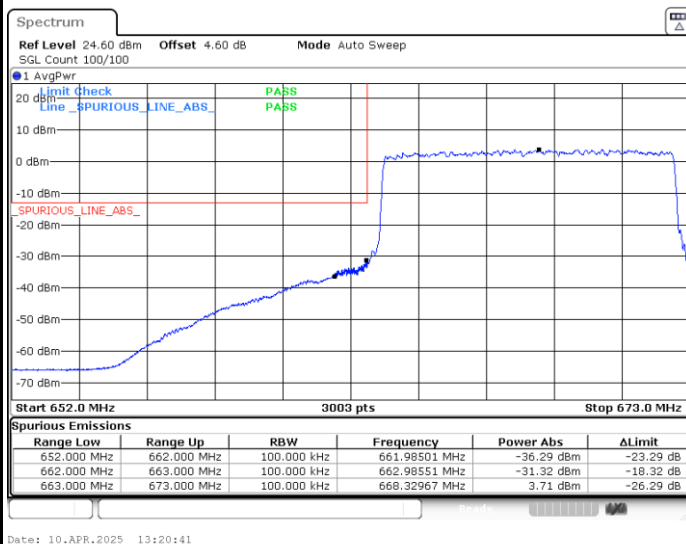
Lowest Band Edge / 1 RB



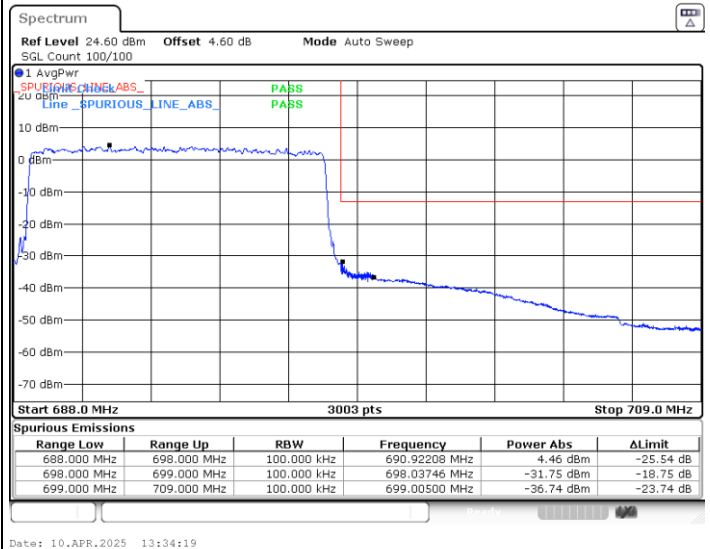
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



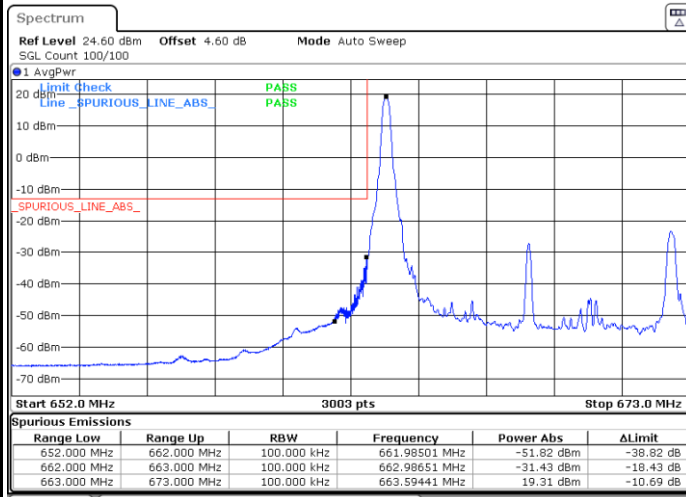
Highest Band Edge / Full RB



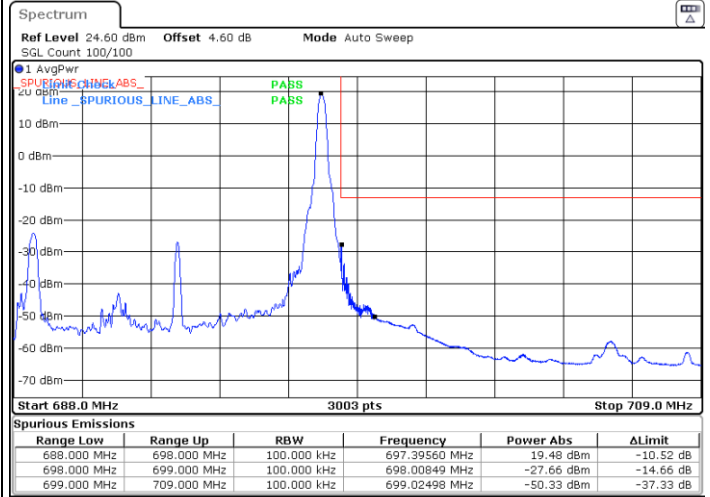


LTE Band 71 / 10MHz / 16QAM

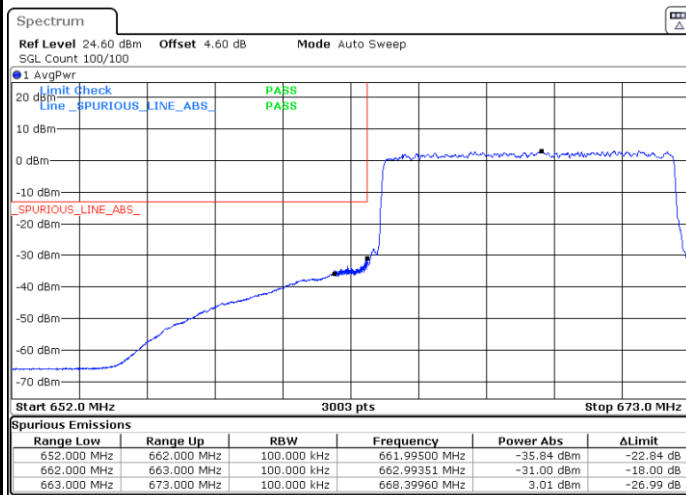
Lowest Band Edge / 1 RB



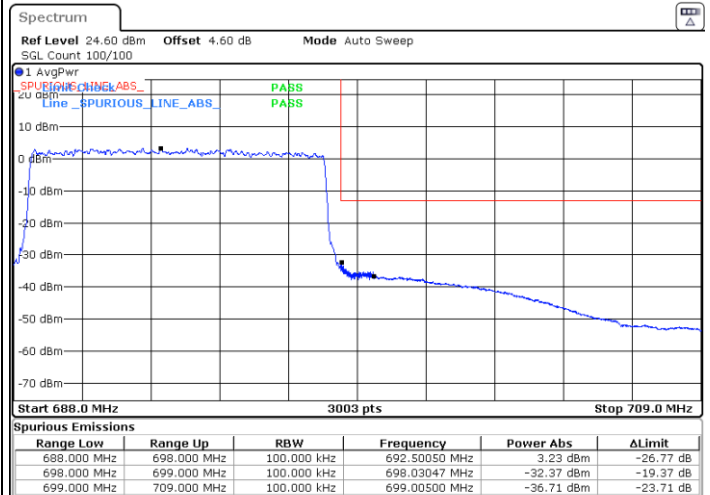
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



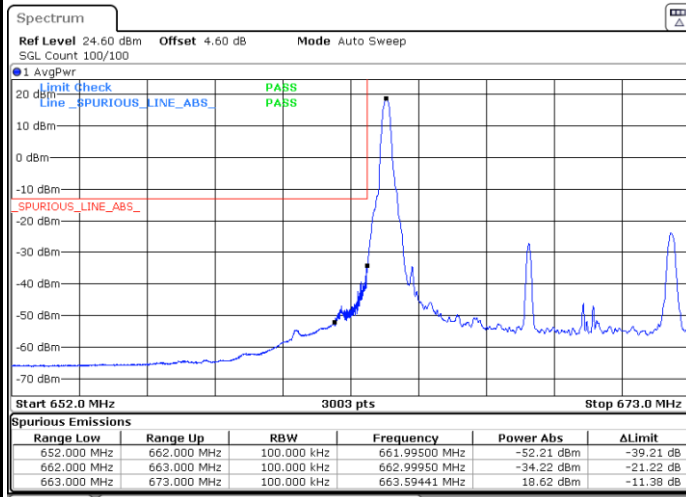
Highest Band Edge / Full RB



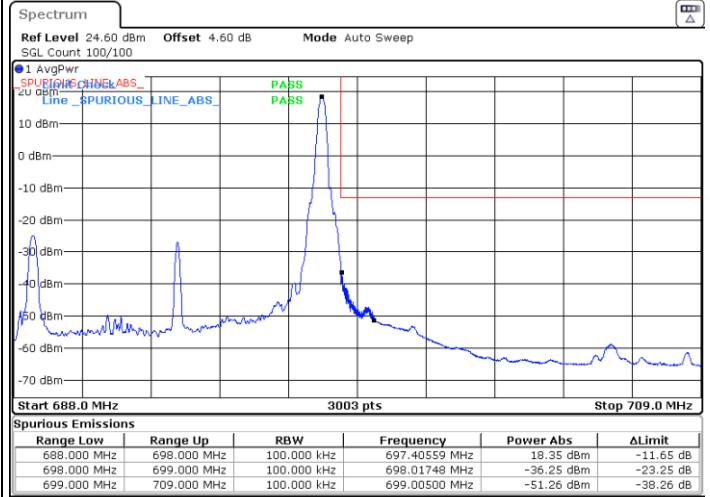


LTE Band 71 / 10MHz / 64QAM

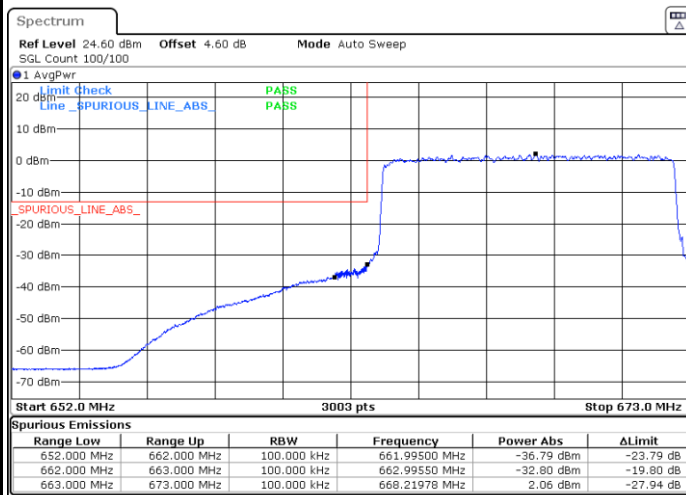
Lowest Band Edge / 1 RB



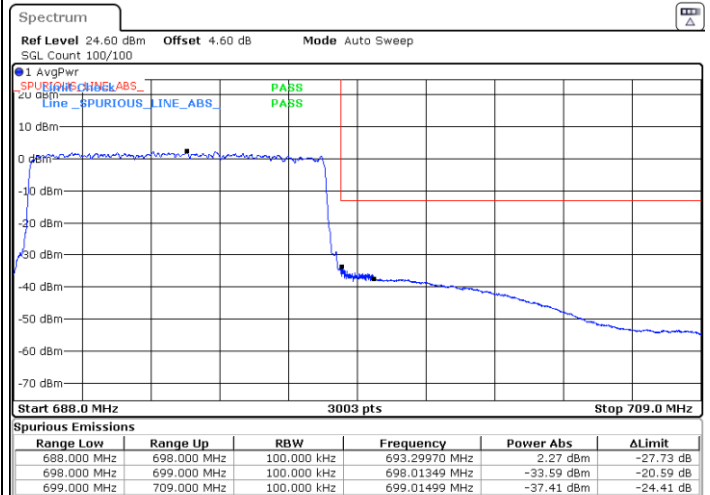
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



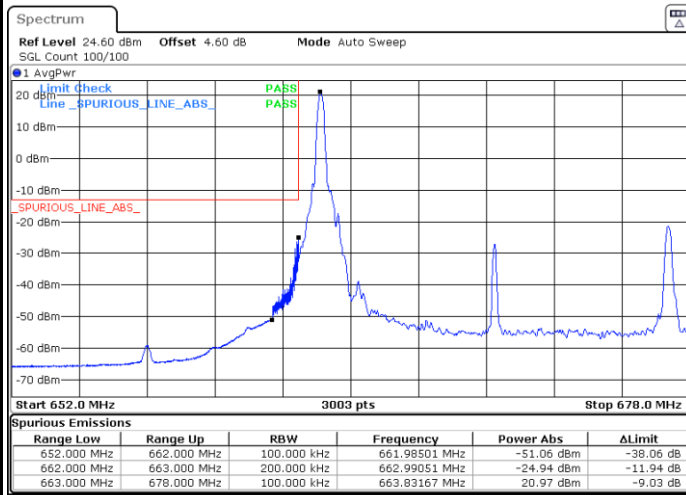
Highest Band Edge / Full RB



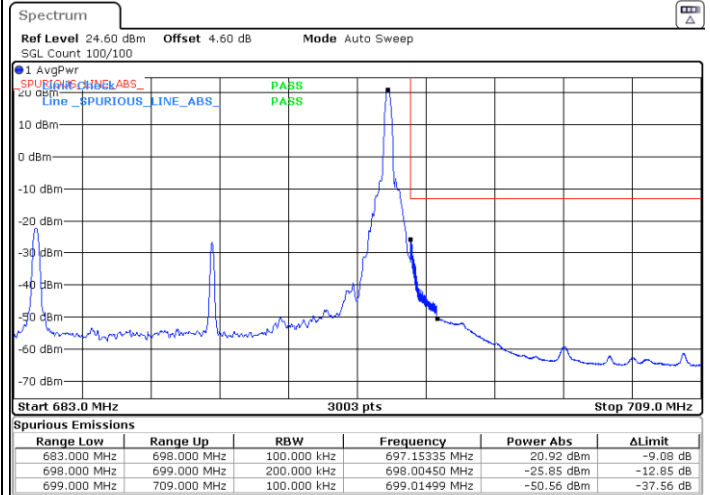


LTE Band 71 / 15MHz / QPSK

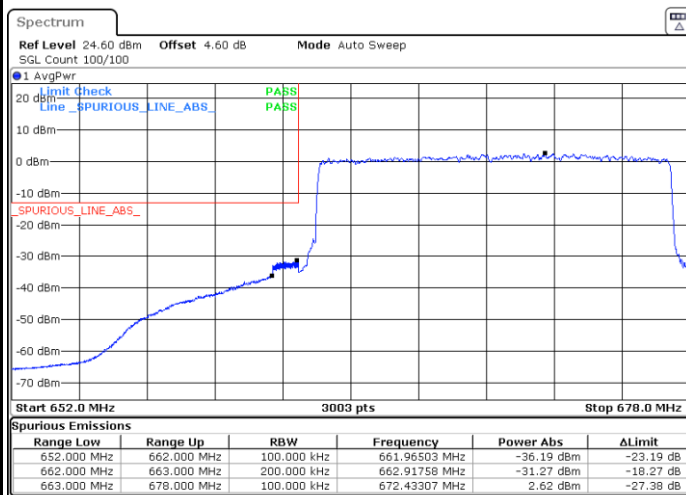
Lowest Band Edge / 1 RB



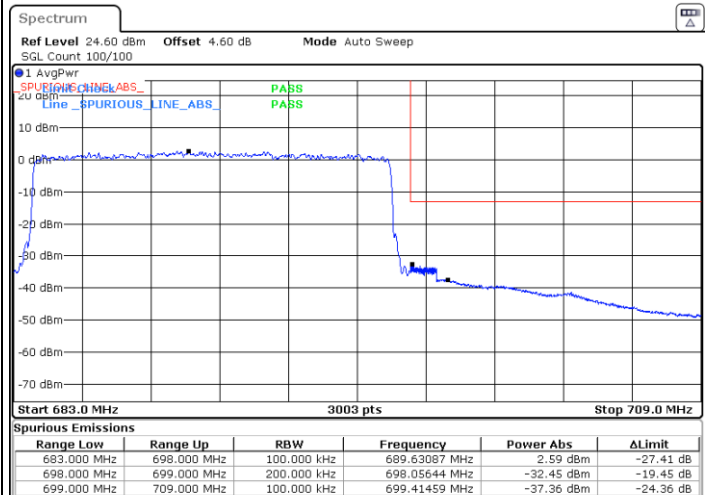
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



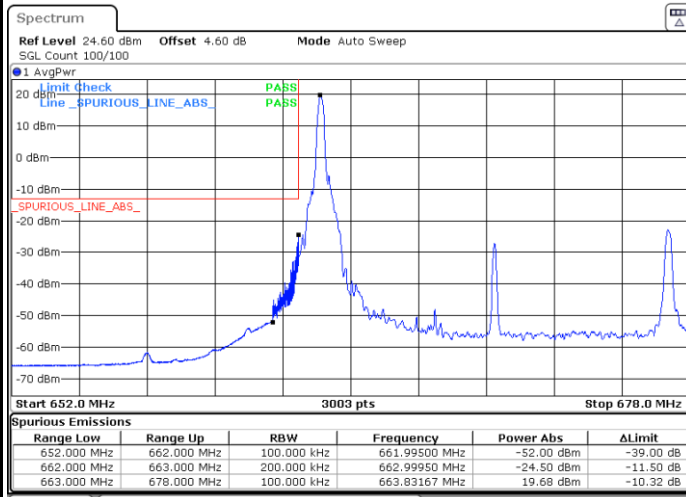
Highest Band Edge / Full RB



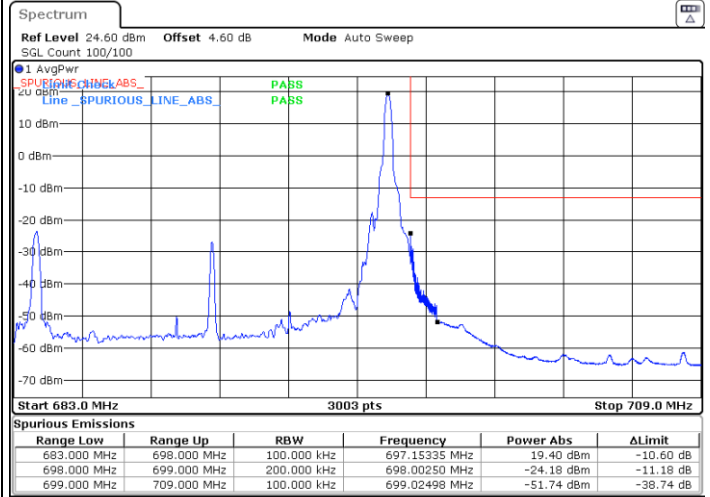


LTE Band 71 / 15MHz / 16QAM

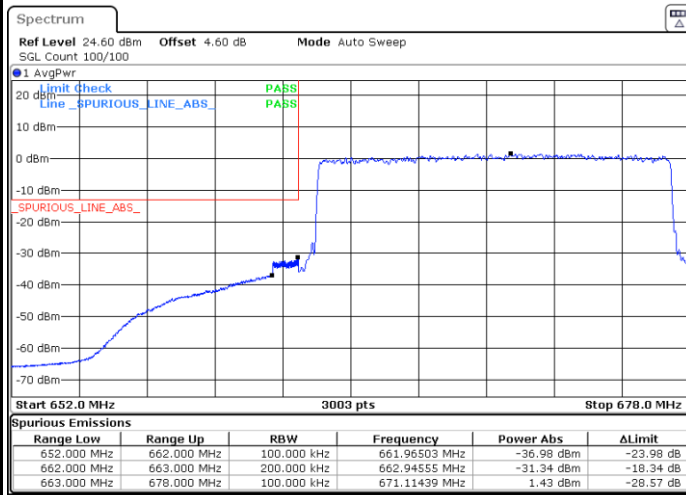
Lowest Band Edge / 1 RB



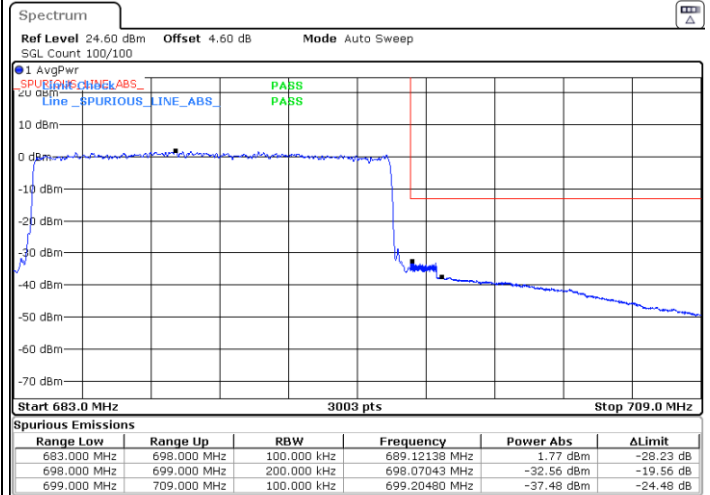
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



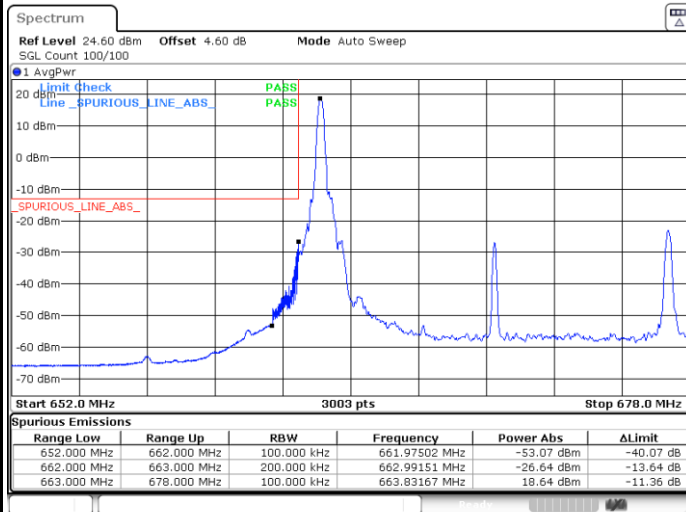
Highest Band Edge / Full RB



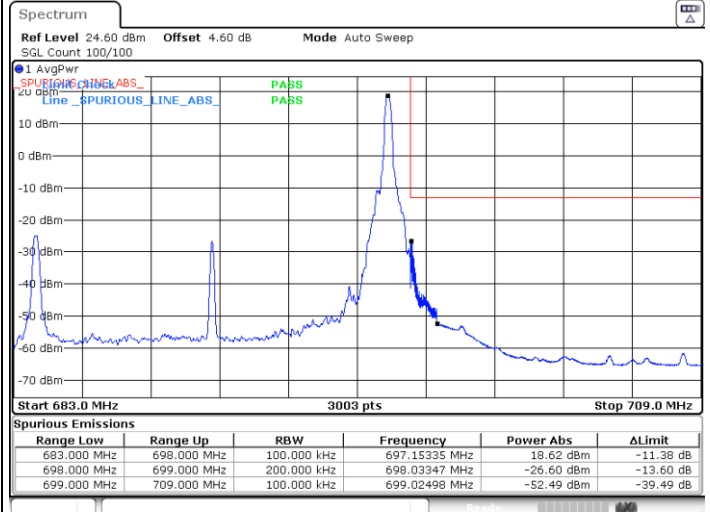


LTE Band 71 / 15MHz / 64QAM

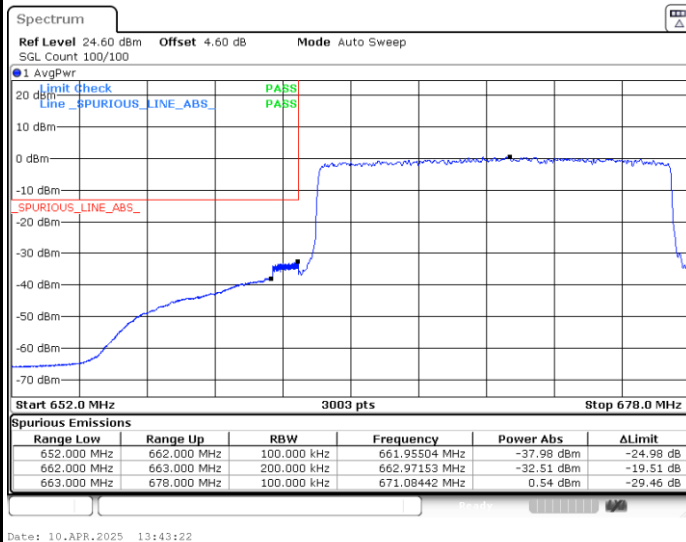
Lowest Band Edge / 1 RB



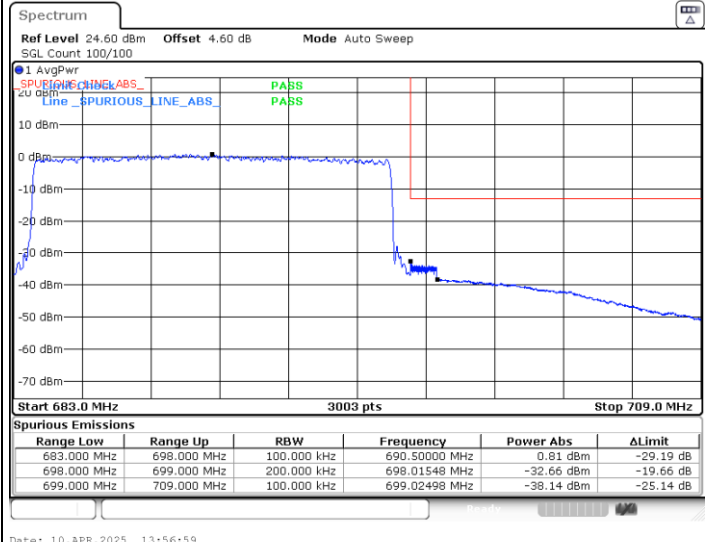
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



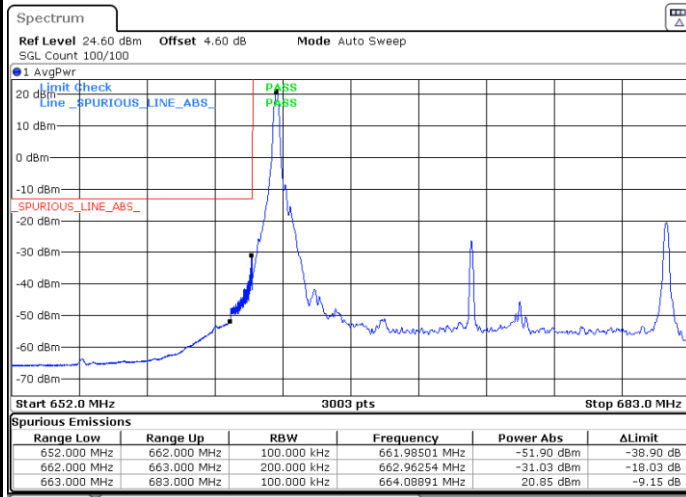
Highest Band Edge / Full RB



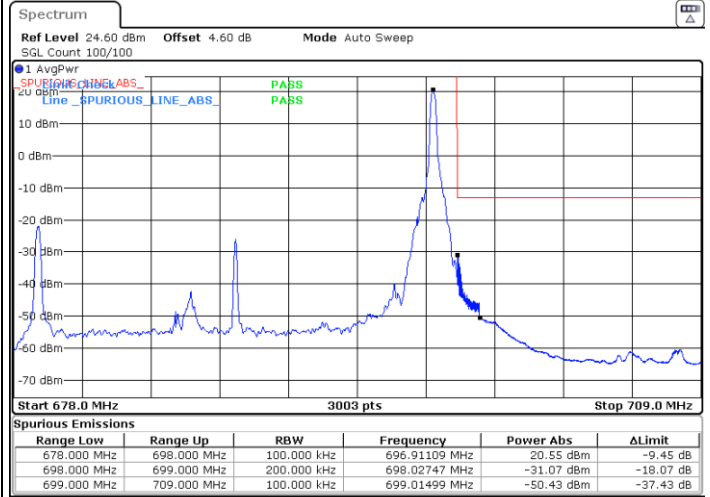


LTE Band 71 / 20MHz / QPSK

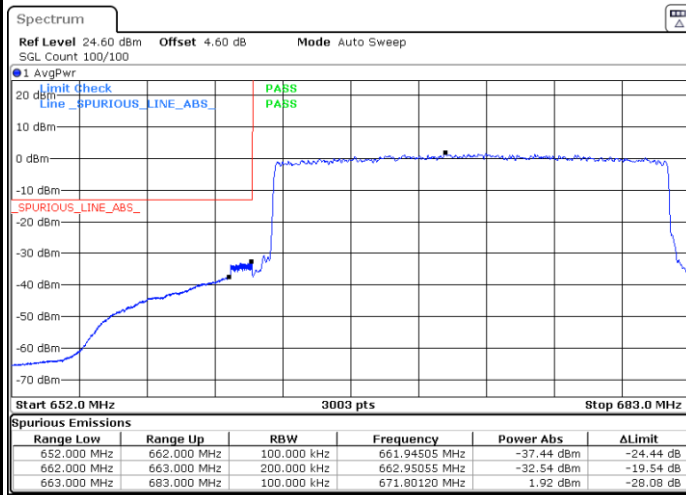
Lowest Band Edge / 1 RB



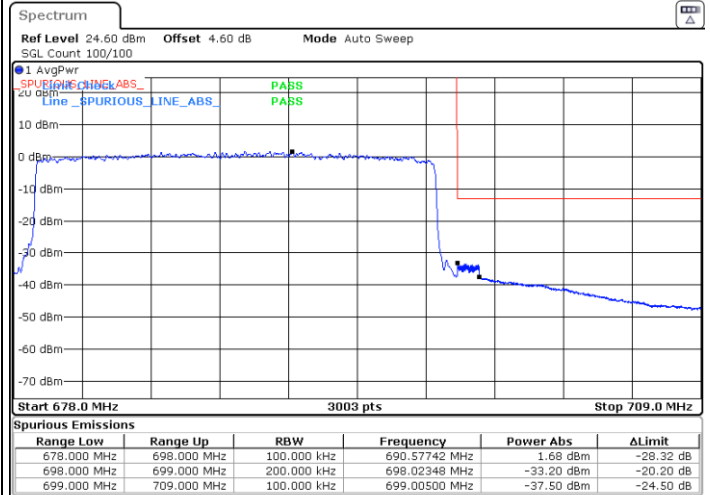
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



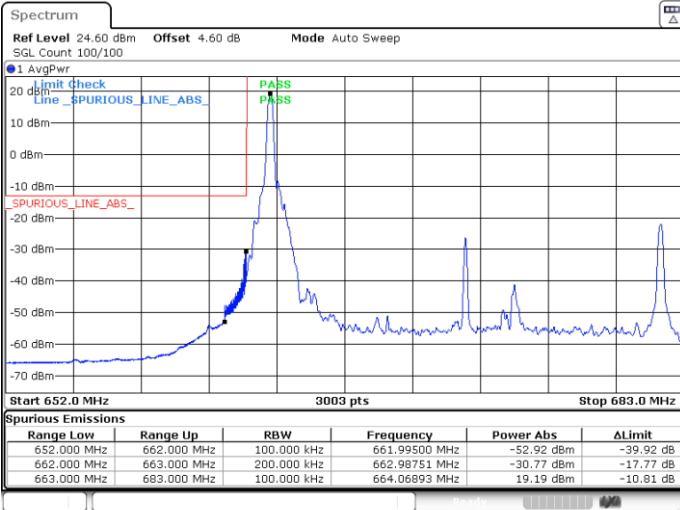
Highest Band Edge / Full RB



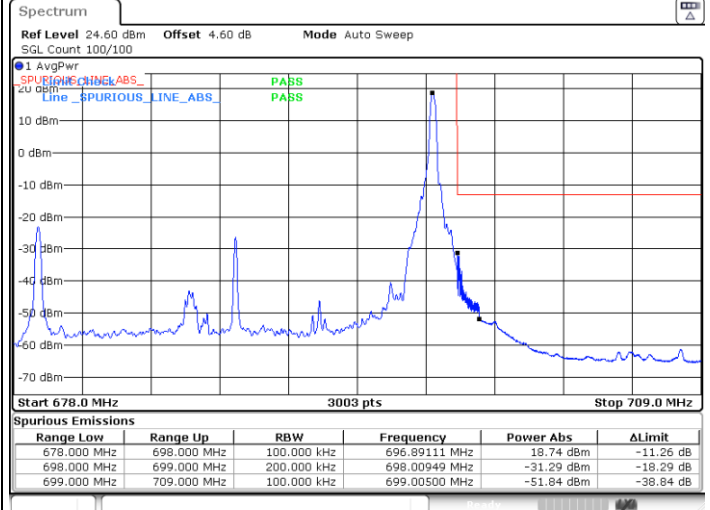


LTE Band 71 / 20MHz / 16QAM

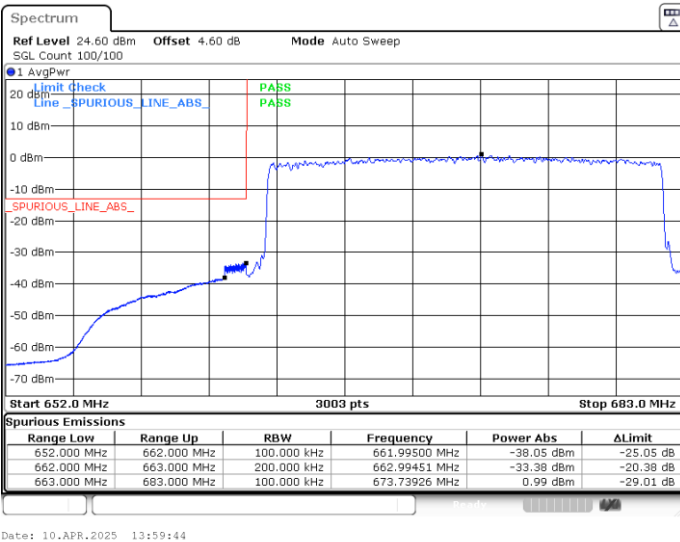
Lowest Band Edge / 1 RB



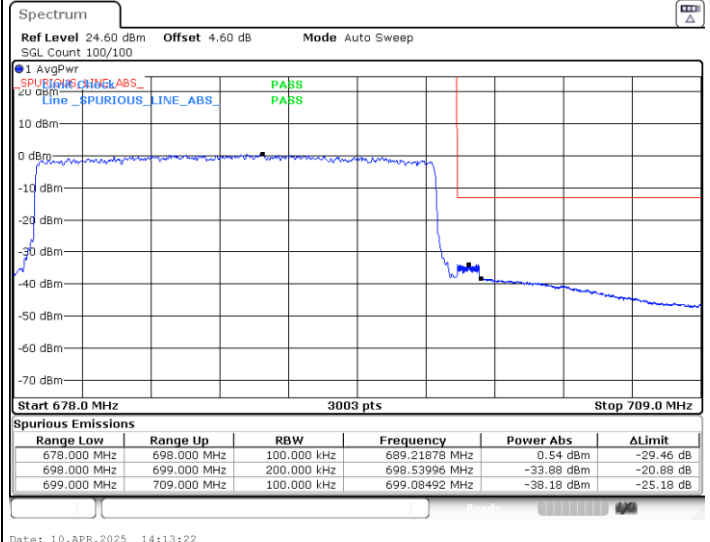
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



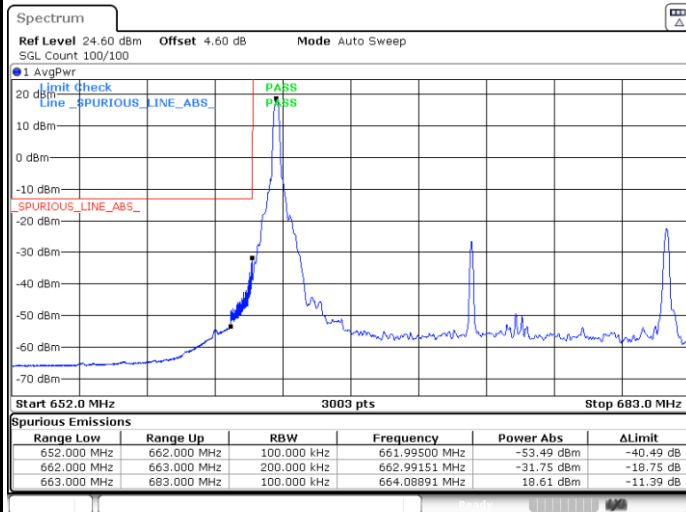
Highest Band Edge / Full RB



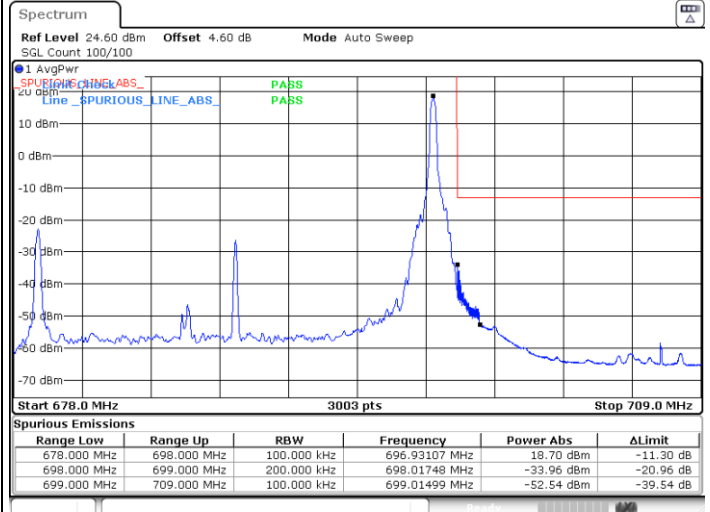


LTE Band 71 / 20MHz / 64QAM

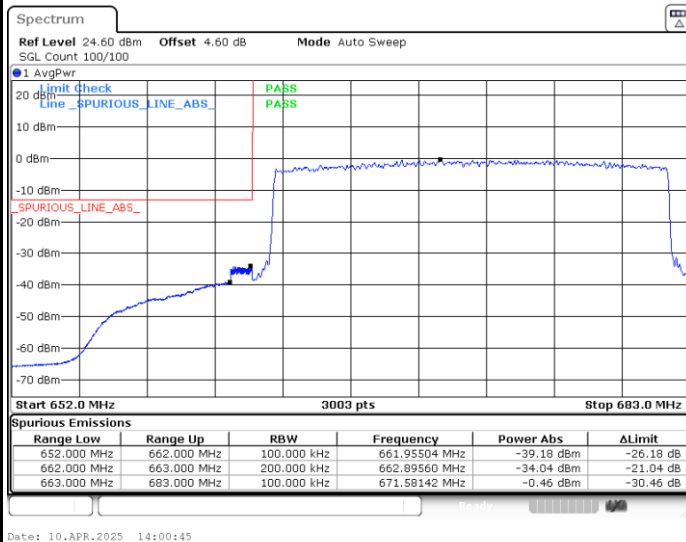
Lowest Band Edge / 1 RB



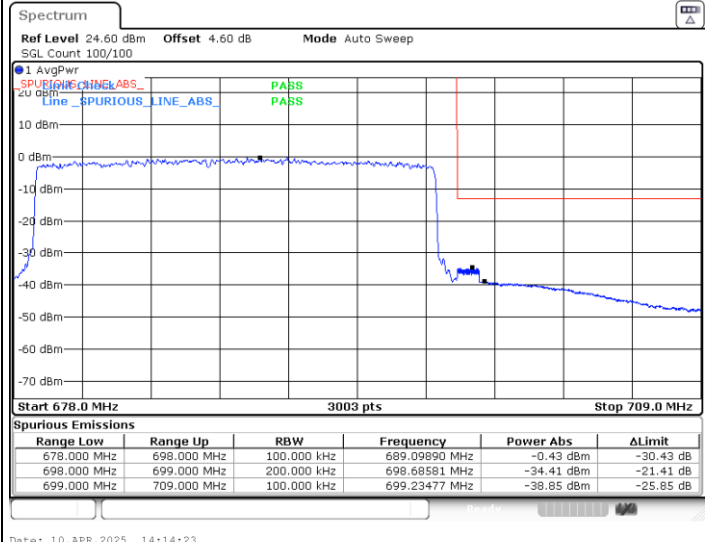
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

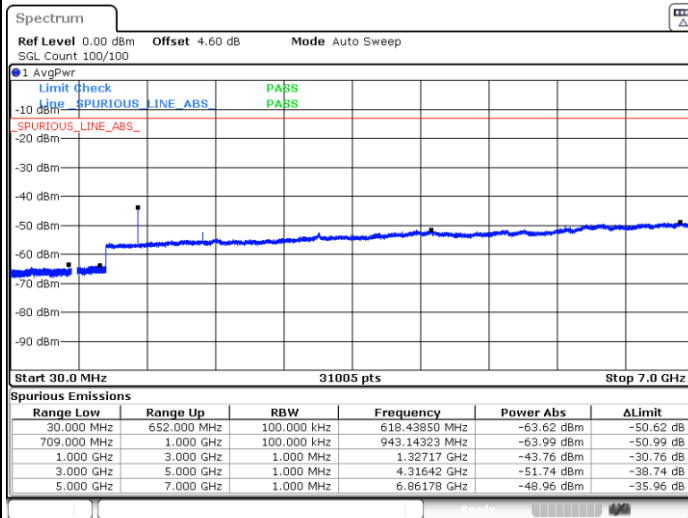




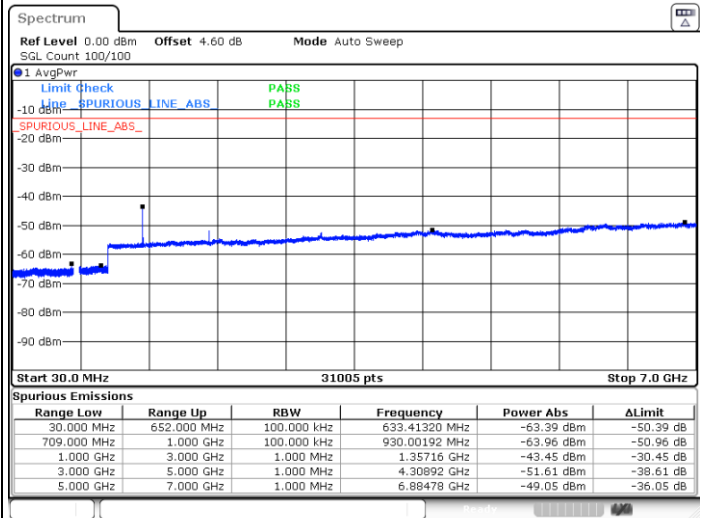
Conducted Spurious Emission

LTE Band 71 / 5MHz

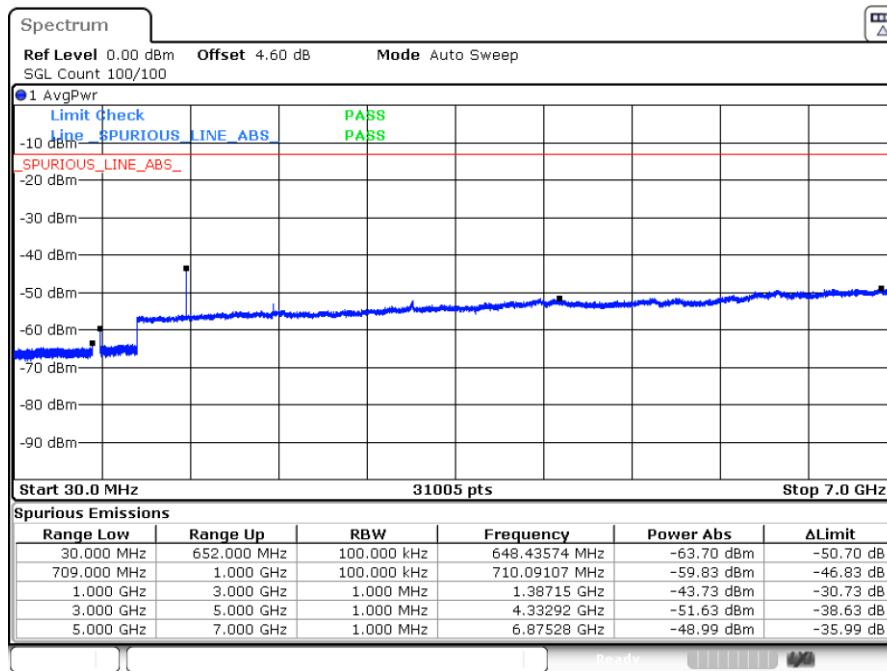
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

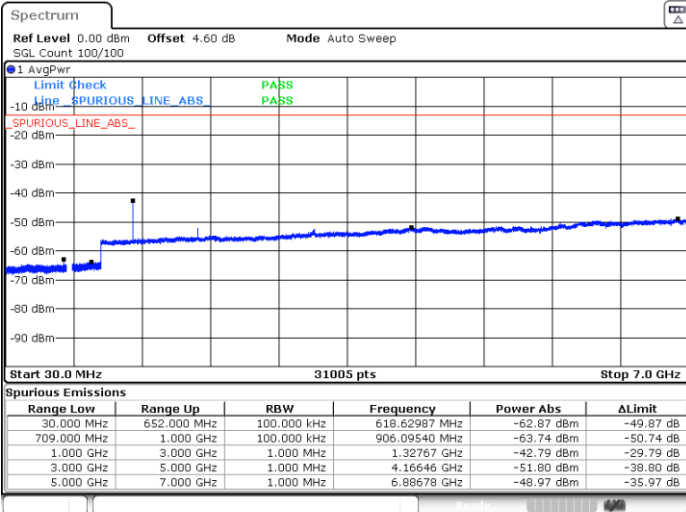




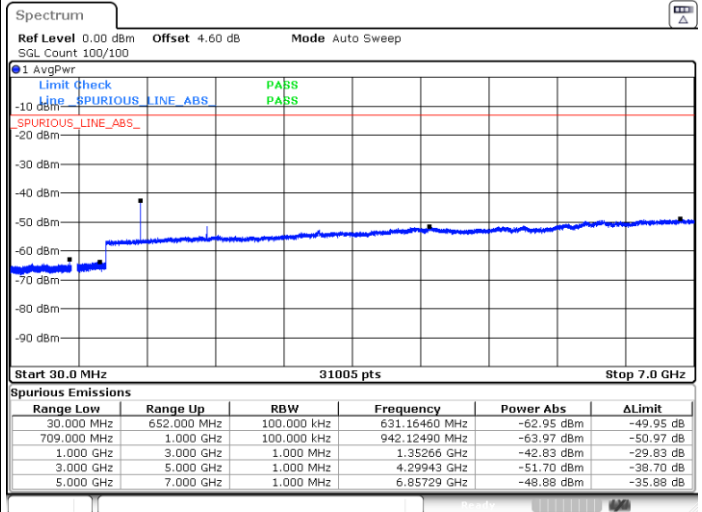
LTE Band 71 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

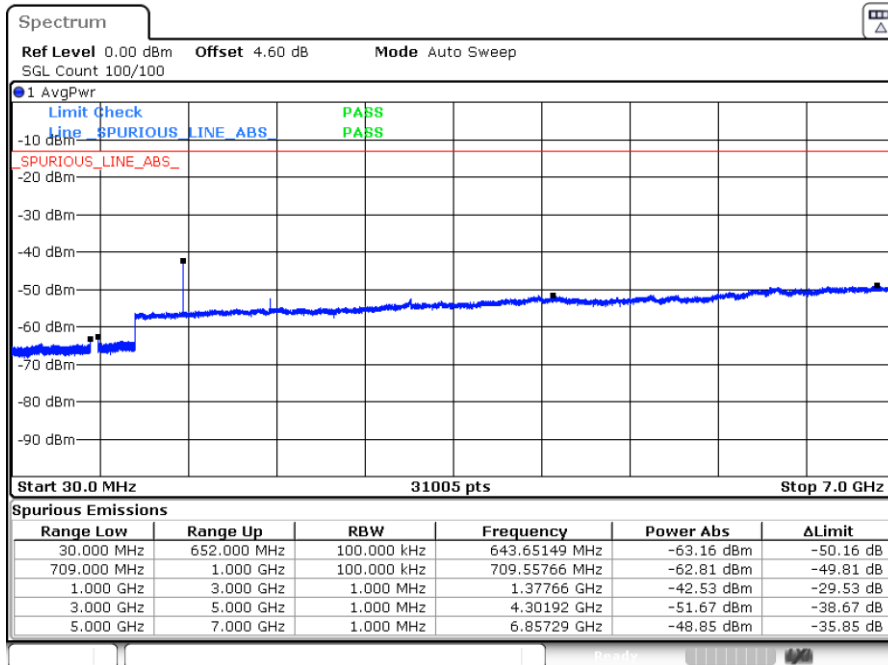


Date: 10.APR.2025 13:26:48



Date: 10.APR.2025 13:27:51

Highest Channel / QPSK

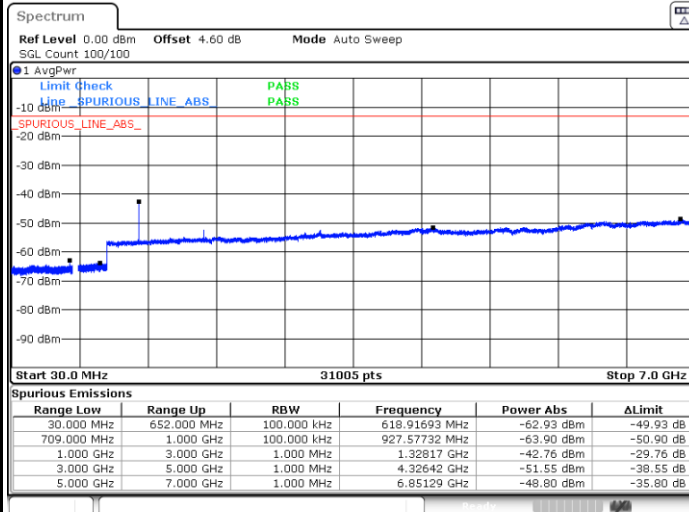


Date: 10.APR.2025 13:30:13

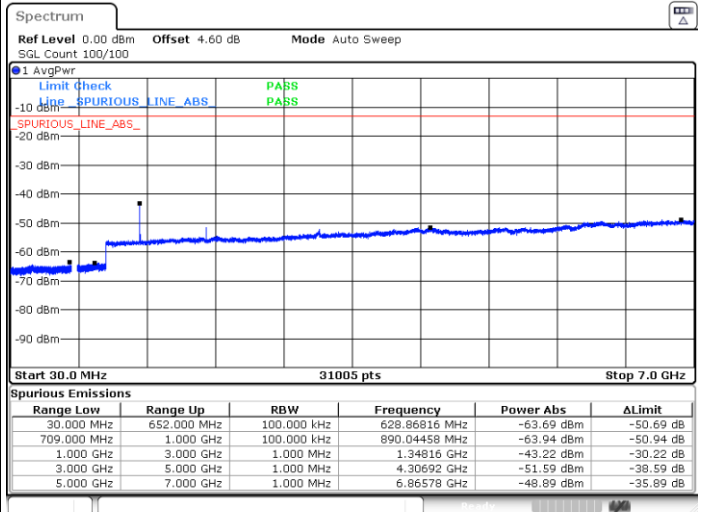


LTE Band 71 / 15MHz

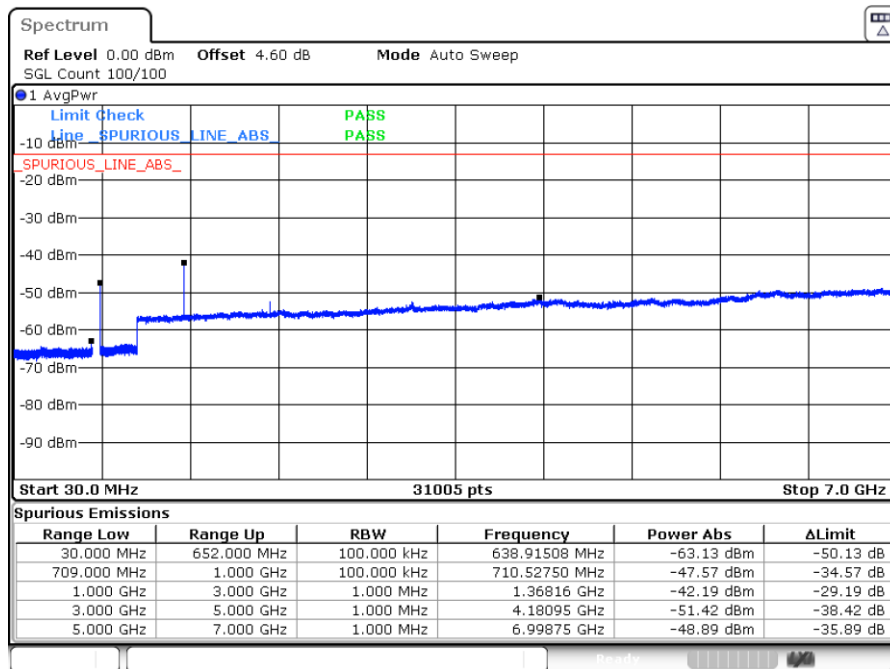
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

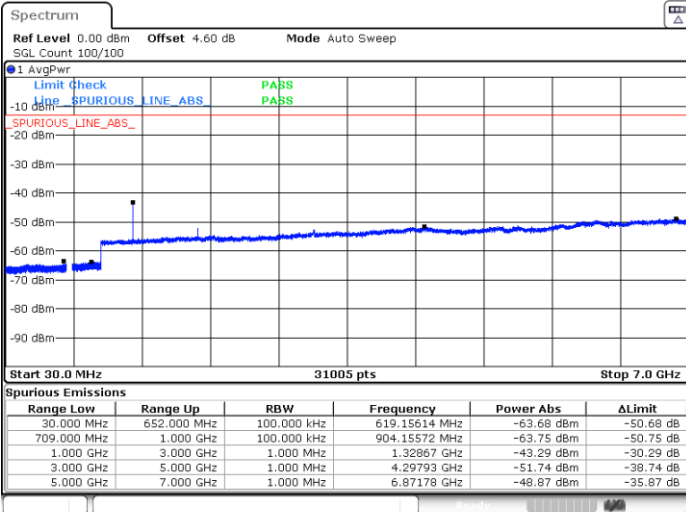




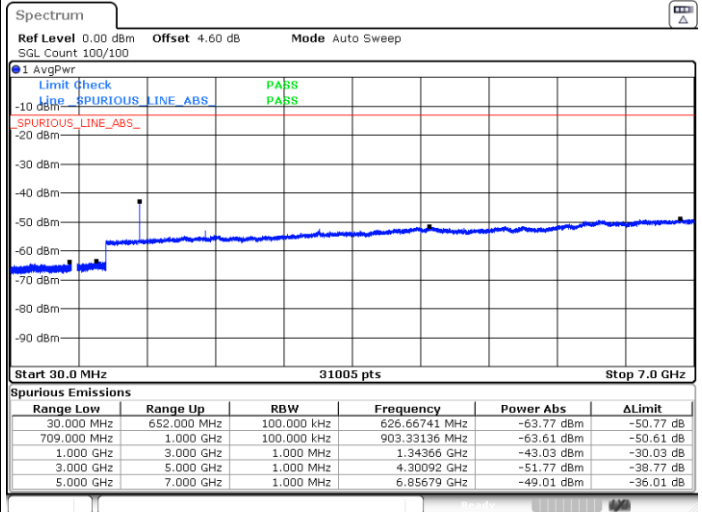
LTE Band 71 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

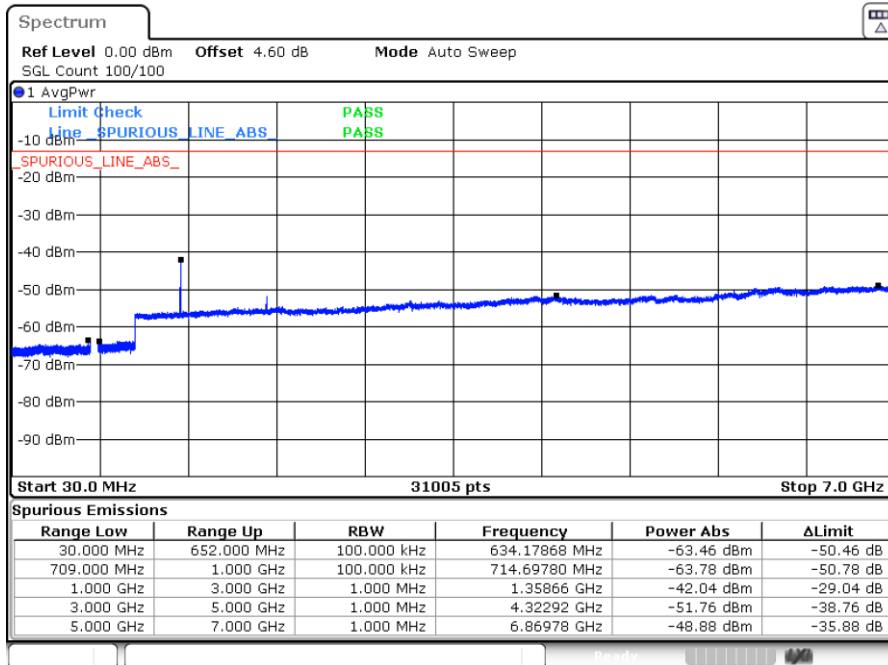


Date: 10.APR.2025 14:04:50



Date: 10.APR.2025 14:05:53

Highest Channel / QPSK



Date: 10.APR.2025 14:08:15

Frequency Stability

Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0030	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0028	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0043	
20	Normal Voltage	0.0027	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =3.9V.; Battery End Point (BEP) =3.5 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

Test Engineer :	Jake	Temperature :	21~24℃
		Relative Humidity :	50~52%

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)
Lowest	5008	-48.64	-25	-23.64	-58.85	3.03	13.24	H
	7500	-53.67	-25	-28.67	-63.12	3.56	13.01	H
	10006	-61.63	-25	-36.63	-71.15	3.92	13.44	H
	5008	-55.60	-25	-30.60	-65.81	3.03	13.24	V
	7500	-60.97	-25	-35.97	-70.42	3.56	13.01	V
	10006	-61.53	-25	-36.53	-71.05	3.92	13.44	V
Middle	5050	-49.37	-25	-24.37	-59.58	3.03	13.24	H
	7584	-59.53	-25	-34.53	-68.98	3.56	13.01	H
	10104	-61.73	-25	-36.73	-71.25	3.92	13.44	H
	5050	-57.37	-25	-32.37	-67.58	3.03	13.24	V
	7584	-49.92	-25	-24.92	-59.37	3.56	13.01	V
	10104	-61.97	-25	-36.97	-71.49	3.92	13.44	V
Highest	5106	-50.96	-25	-25.96	-61.17	3.03	13.24	H
	7654	-60.84	-25	-35.84	-70.29	3.56	13.01	H
	10202	-60.66	-25	-35.66	-70.18	3.92	13.44	H
	5106	-56.66	-25	-31.66	-66.87	3.03	13.24	V
	7654	-60.47	-25	-35.47	-69.92	3.56	13.01	V
	10202	-61.35	-25	-36.35	-70.87	3.92	13.44	V

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



LTE Band 12 / 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	1400	-56.47	-13	-43.47	-58.61	1.58	5.87	H
	2096	-54.61	-13	-41.61	-56.28	2.102	5.92	H
	2800	-57.96	-13	-44.96	-60.63	2.856	7.68	H
	1400	-61.94	-13	-48.94	-64.08	1.58	5.87	V
	2096	-55.31	-13	-42.31	-56.98	2.10	5.92	V
	2800	-57.61	-13	-44.61	-60.28	2.86	7.68	V
Middle	1408	-57.90	-13	-44.90	-60.04	1.58	5.87	H
	2112	-56.00	-13	-43.00	-57.67	2.102	5.92	H
	2808	-58.34	-13	-45.34	-61.01	2.856	7.68	H
	1408	-59.35	-13	-46.35	-61.49	1.58	5.87	V
	2112	-55.89	-13	-42.89	-57.56	2.10	5.92	V
	2808	-57.91	-13	-44.91	-60.58	2.86	7.68	V
Highest	1416	-58.03	-13	-45.03	-60.17	1.58	5.87	H
	2120	-60.02	-13	-47.02	-61.69	2.102	5.92	H
	2824	-57.67	-13	-44.67	-60.34	2.856	7.68	H
	1416	-61.80	-13	-48.80	-63.94	1.58	5.87	V
	2120	-59.70	-13	-46.70	-61.37	2.10	5.92	V
	2824	-57.41	-13	-44.41	-60.08	2.86	7.68	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	1552	-60.14	-13	-47.14	-62.77	1.09	5.87	H
	2328	-52.68	-13	-39.68	-55.08	1.37	5.92	H
	3112	-58.38	-13	-45.38	-62.27	1.64	7.68	H
	1552	-54.71	-13	-41.71	-57.34	1.09	5.87	V
	2328	-57.57	-13	-44.57	-59.97	1.37	5.92	V
	3112	-58.52	-13	-45.52	-62.41	1.64	7.68	V
Middle	1560	-56.43	-42.15	-14.28	-59.06	1.09	5.87	H
	2336	-54.84	-13	-41.84	-57.24	1.37	5.92	H
	3120	-58.50	-13	-45.50	-62.39	1.64	7.68	H
	1560	-52.40	-42.15	-10.25	-55.03	1.09	5.87	V
	2336	-57.88	-13	-44.88	-60.28	1.37	5.92	V
	3120	-58.19	-13	-45.19	-62.08	1.64	7.68	V
Highest	1568	-56.47	-42.15	-14.32	-59.10	1.09	5.87	H
	2344	-53.81	-13	-40.81	-56.21	1.37	5.92	H
	3128	-58.73	-13	-45.73	-62.62	1.64	7.68	H
	1568	-54.23	-42.15	-12.08	-56.86	1.09	5.87	V
	2344	-58.40	-13	-45.40	-60.80	1.37	5.92	V
	3128	-58.57	-13	-45.57	-62.46	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	1552	-60.56	-13	-47.56	-63.19	1.09	5.87	H
	2336	-53.38	-13	-40.38	-55.78	1.37	5.92	H
	3112	-58.40	-13	-45.40	-62.29	1.64	7.68	H
	1552	-52.87	-13	-39.87	-55.50	1.09	5.87	V
	2336	-57.59	-13	-44.59	-59.99	1.37	5.92	V
	3112	-58.22	-13	-45.22	-62.11	1.64	7.68	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	4994	-50.59	-25	-25.59	-60.80	3.03	13.24	H
	7486	-60.54	-25	-35.54	-69.99	3.56	13.01	H
	9992	-61.10	-25	-36.10	-70.62	3.92	13.44	H
	4994	-55.17	-25	-30.17	-65.38	3.03	13.24	V
	7486	-60.81	-25	-35.81	-70.26	3.56	13.01	V
	9992	-61.71	-25	-36.71	-71.23	3.92	13.44	V
Middle	5162	-55.33	-25	-30.33	-65.54	3.03	13.24	H
	7752	-53.58	-25	-28.58	-63.03	3.56	13.01	H
	10342	-60.80	-25	-35.80	-70.32	3.92	13.44	H
	5162	-57.62	-25	-32.62	-67.83	3.03	13.24	V
	7752	-59.63	-25	-34.63	-69.08	3.56	13.01	V
	10342	-61.11	-25	-36.11	-70.63	3.92	13.44	V
Highest	5344	-61.02	-25	-36.02	-71.23	3.03	13.24	H
	8018	-56.94	-25	-31.94	-66.39	3.56	13.01	H
	10684	-61.66	-25	-36.66	-71.18	3.92	13.44	H
	5344	-59.82	-25	-34.82	-70.03	3.03	13.24	V
	8018	-56.67	-25	-31.67	-66.12	3.56	13.01	V
	10678	-62.16	-25	-37.16	-71.68	3.92	13.44	V

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



LTE Band 71 / 20MHz / 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	1328	-60.57	-13	-47.57	-62.32	1.02	4.92	H
	1992	-60.71	-13	-47.71	-62.68	1.27	5.39	H
	2656	-58.51	-13	-45.51	-61.44	1.49	6.57	H
	1328	-58.70	-13	-45.70	-60.45	1.02	4.92	V
	1992	-59.40	-13	-46.40	-61.37	1.27	5.39	V
	2656	-58.05	-13	-45.05	-60.98	1.49	6.57	V
Middle	1344	-59.60	-13	-46.60	-61.35	1.02	4.92	H
	2016	-60.29	-13	-47.29	-62.26	1.27	5.39	H
	2688	-58.52	-13	-45.52	-61.45	1.49	6.57	H
	1344	-60.26	-13	-47.26	-62.01	1.02	4.92	V
	2016	-59.18	-13	-46.18	-61.15	1.27	5.39	V
	2688	-58.14	-13	-45.14	-61.07	1.49	6.57	V
Highest	1360	-61.06	-13	-48.06	-62.81	1.02	4.92	H
	2040	-60.00	-13	-47.00	-61.97	1.27	5.39	H
	2712	-58.59	-13	-45.59	-61.52	1.49	6.57	H
	1360	-61.55	-13	-48.55	-63.30	1.02	4.92	V
	2040	-59.29	-13	-46.29	-61.26	1.27	5.39	V
	2712	-58.26	-13	-45.26	-61.19	1.49	6.57	V

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