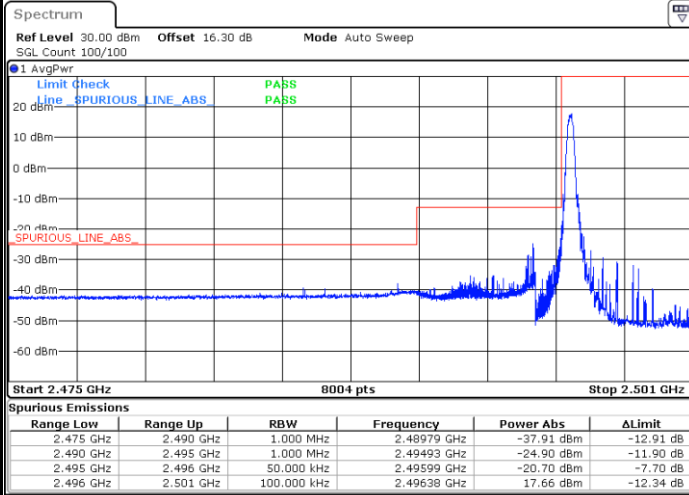


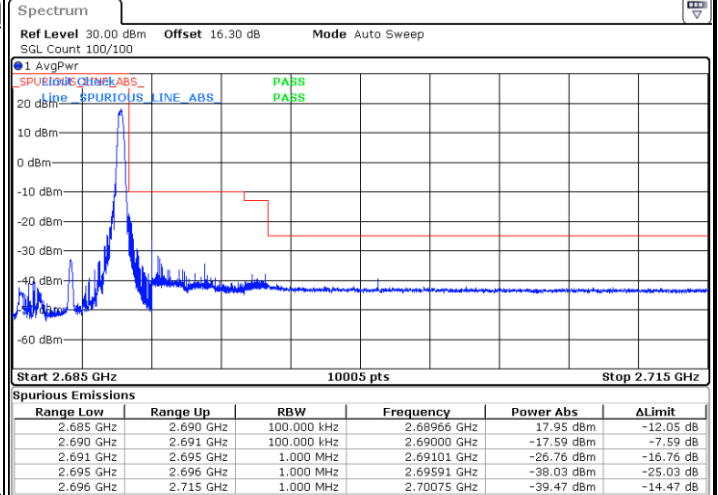


LTE Band 41 / 5MHz / 16QAM

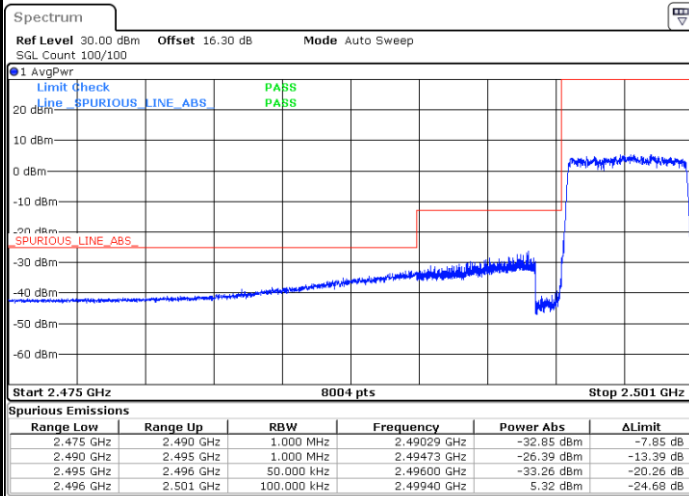
Lowest Band Edge / 1RB



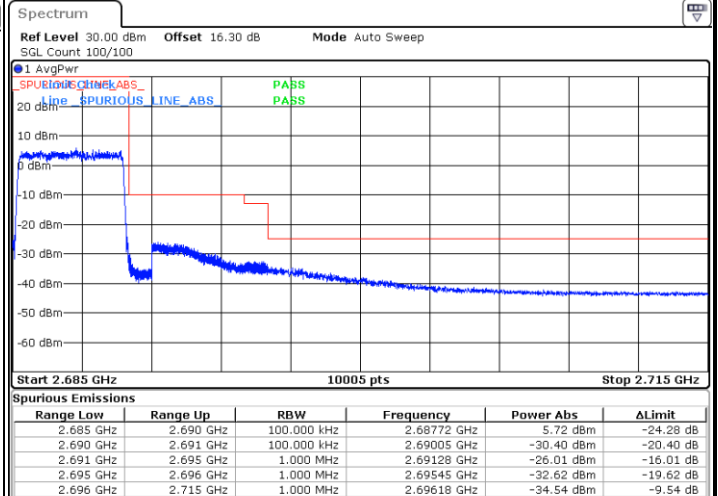
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



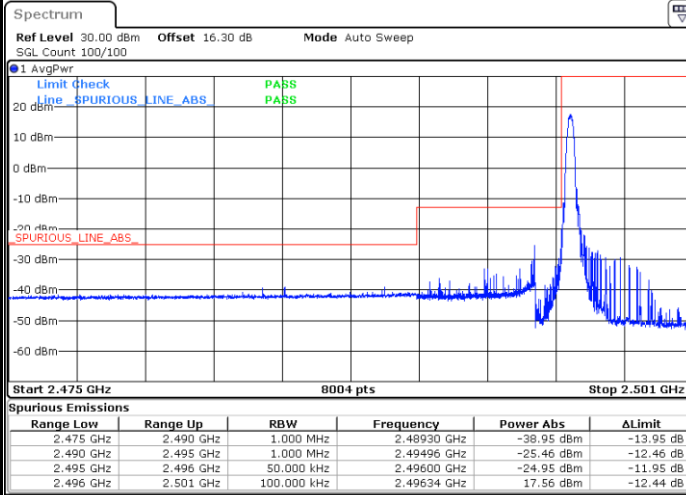
Highest Band Edge / Full RB



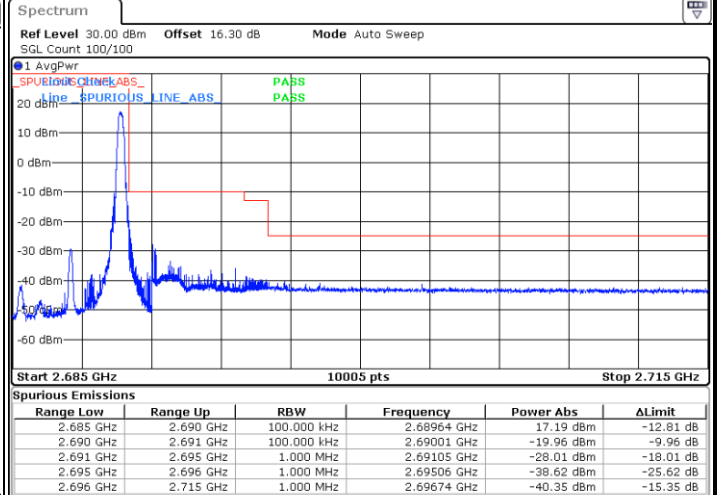


LTE Band 41 / 5MHz / 64QAM

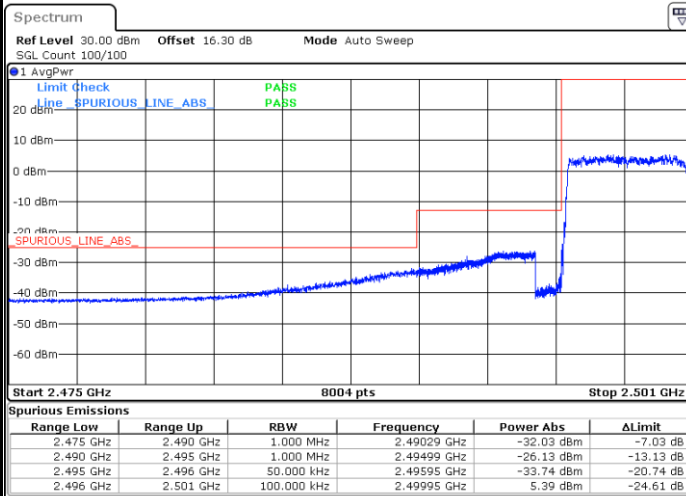
Lowest Band Edge / 1RB



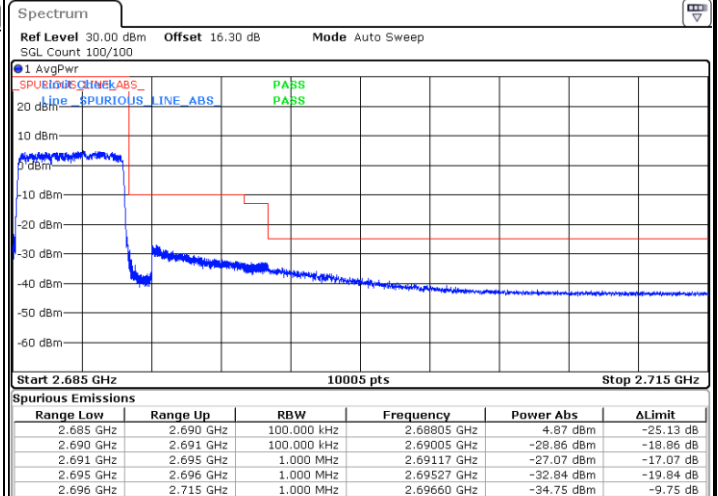
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



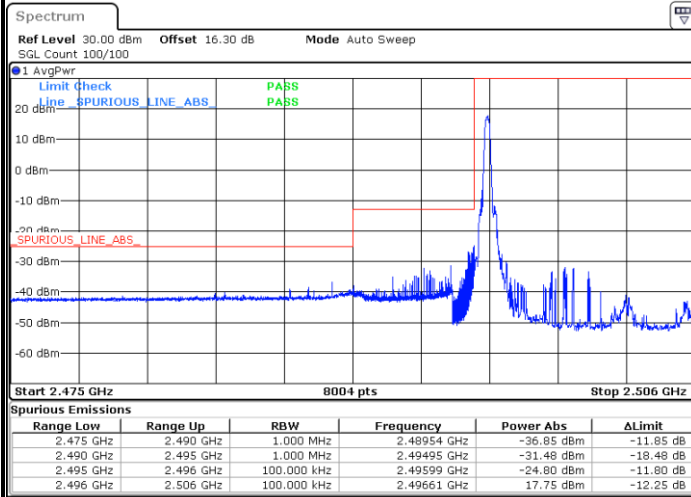
Highest Band Edge / Full RB



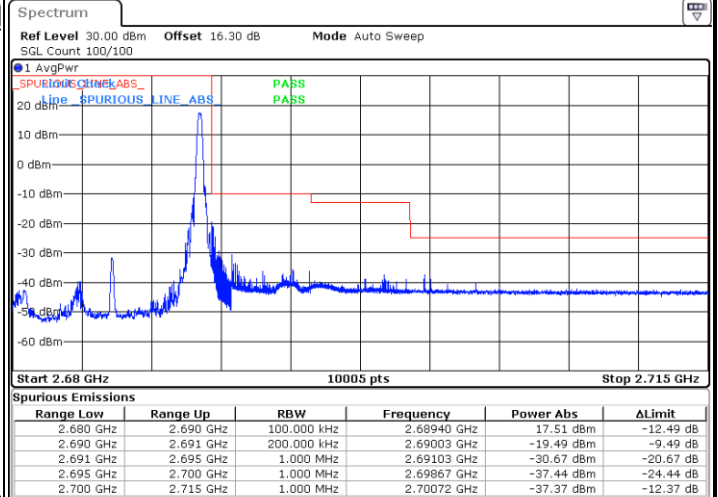


LTE Band 41 / 10MHz / QPSK

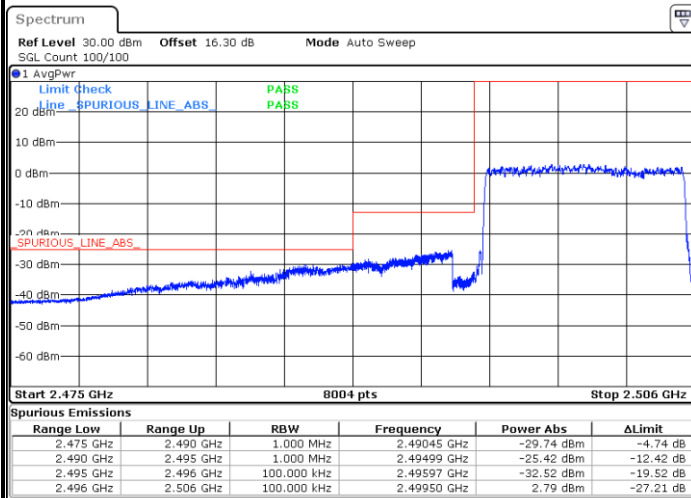
Lowest Band Edge / 1 RB



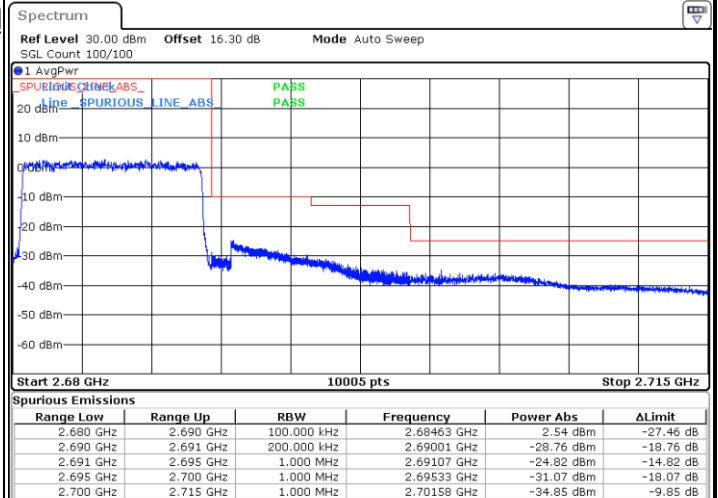
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



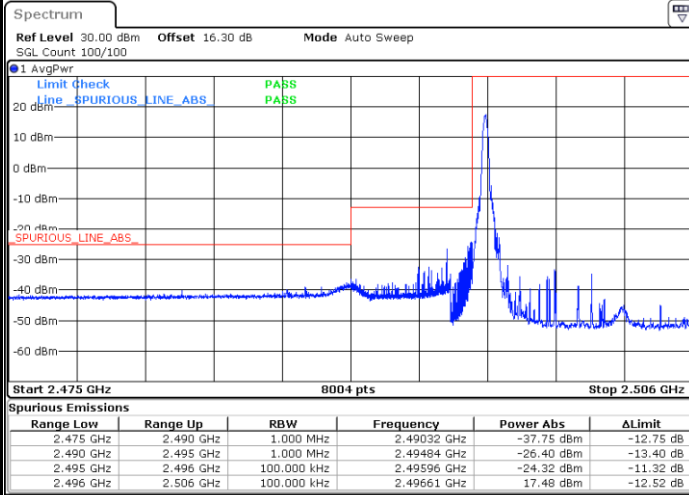
Highest Band Edge / Full RB





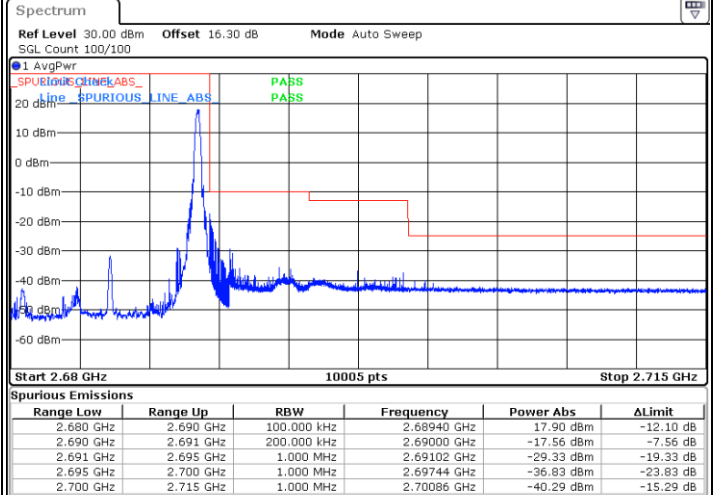
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



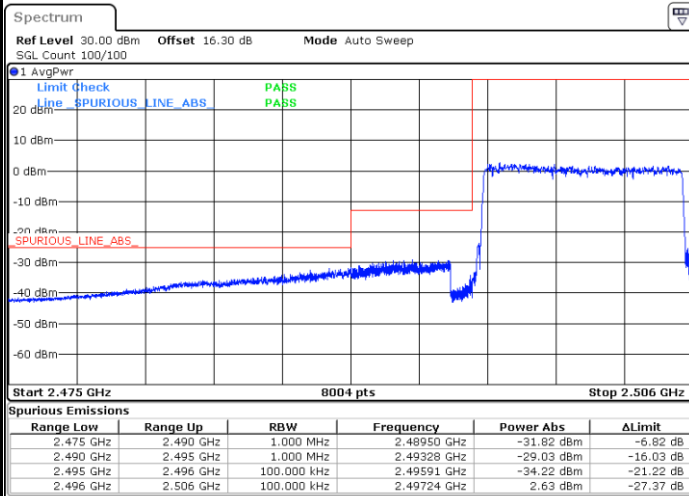
Date: 27.JUN.2021 08:18:03

Highest Band Edge / 1 RB



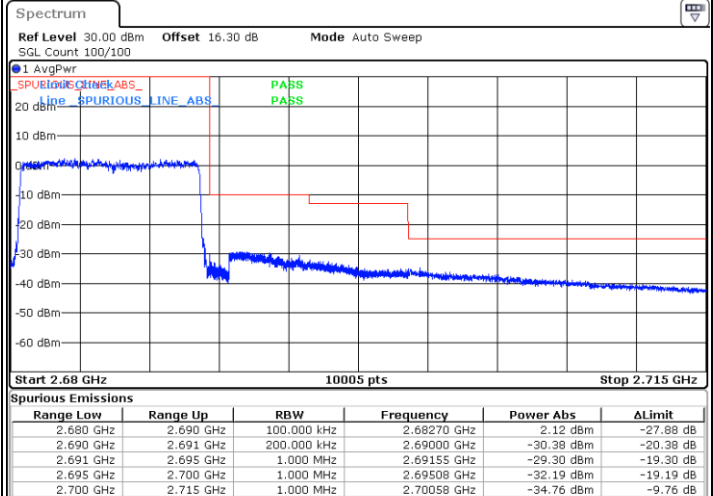
Date: 27.JUN.2021 08:19:46

Lowest Band Edge / Full RB



Date: 27.JUN.2021 08:18:55

Highest Band Edge / Full RB

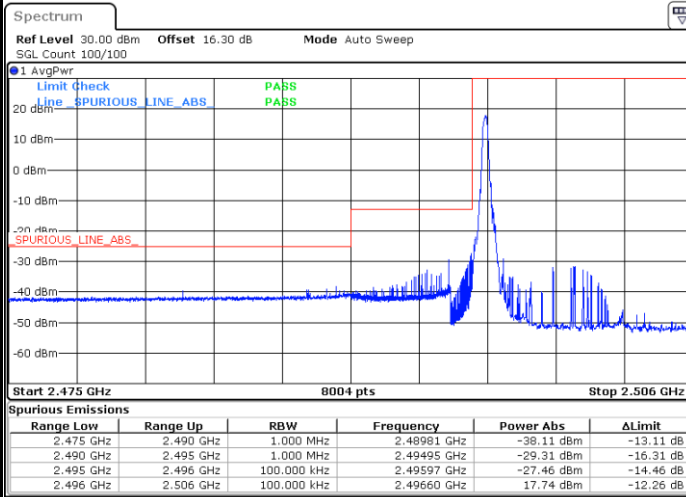


Date: 27.JUN.2021 08:20:36

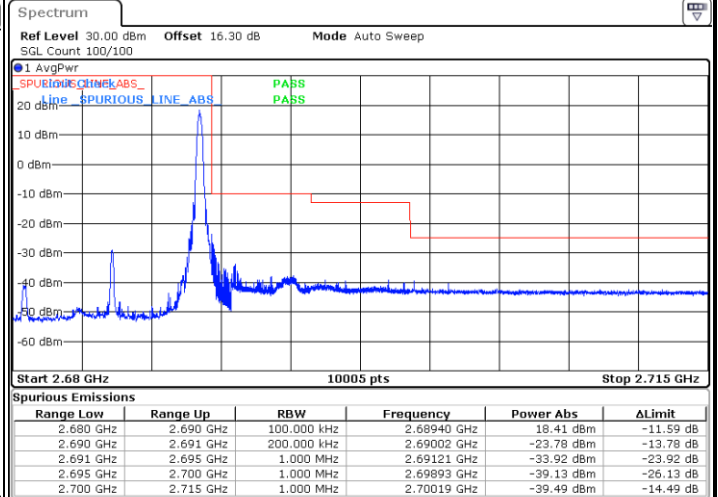


LTE Band 41 / 10MHz / 64QAM

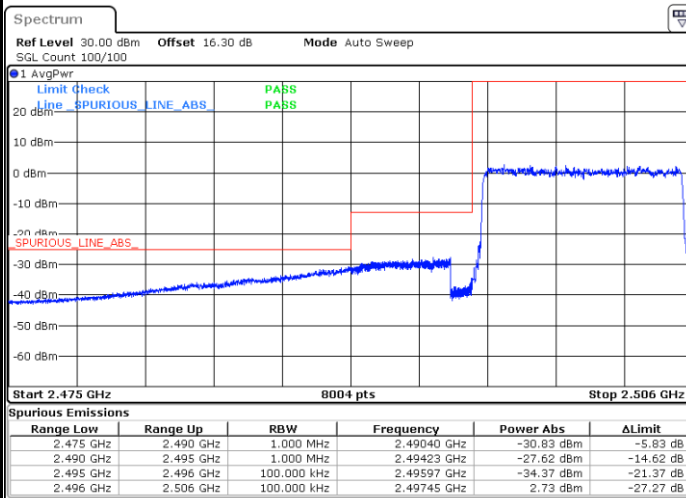
Lowest Band Edge / 1 RB



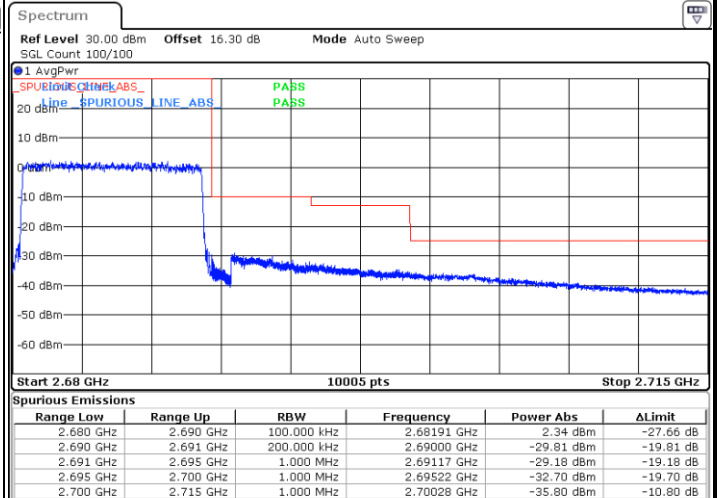
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



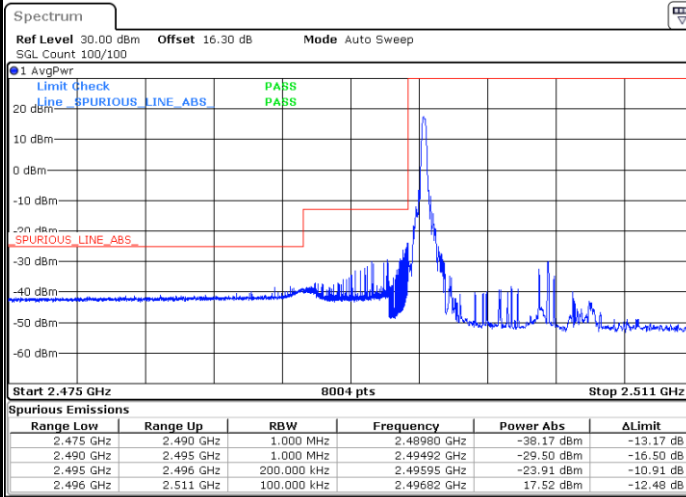
Highest Band Edge / Full RB



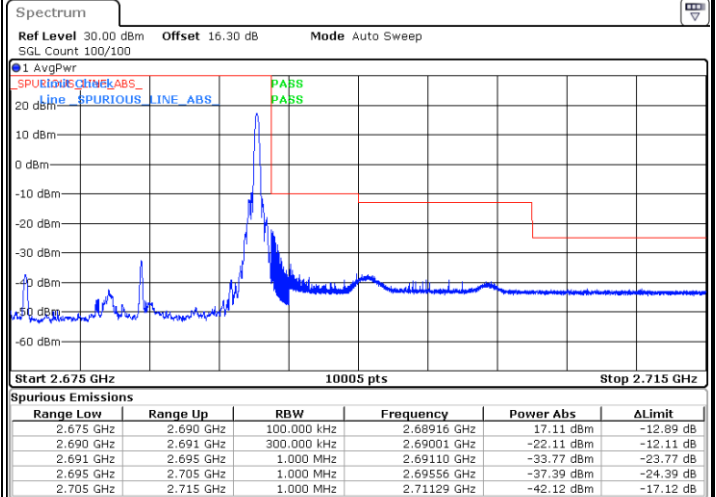


LTE Band 41 / 15MHz / QPSK

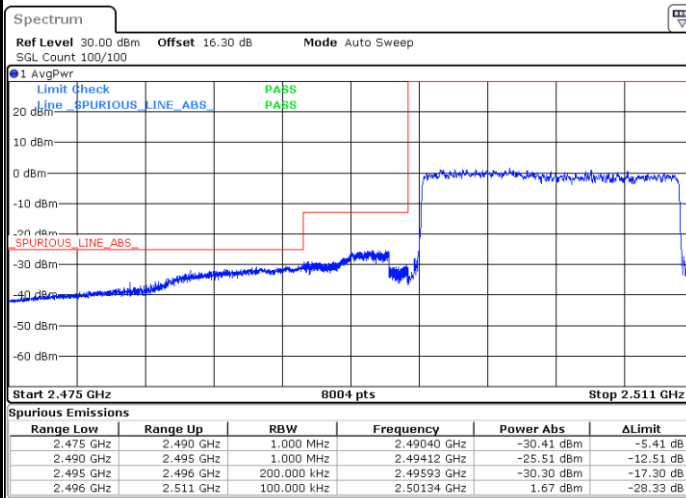
Lowest Band Edge / 1 RB



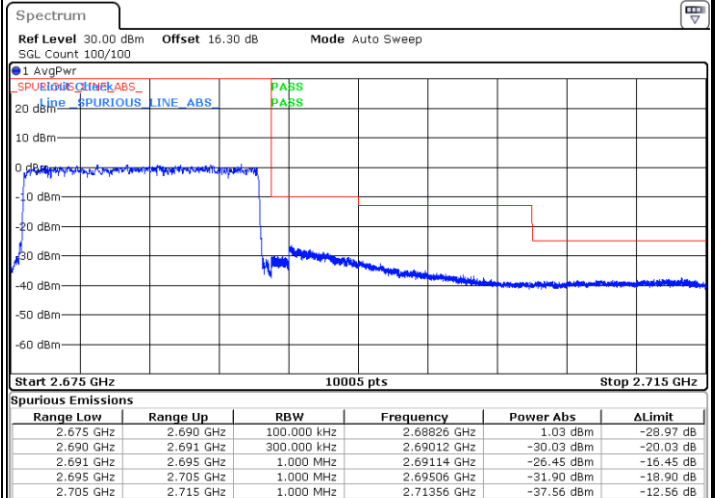
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



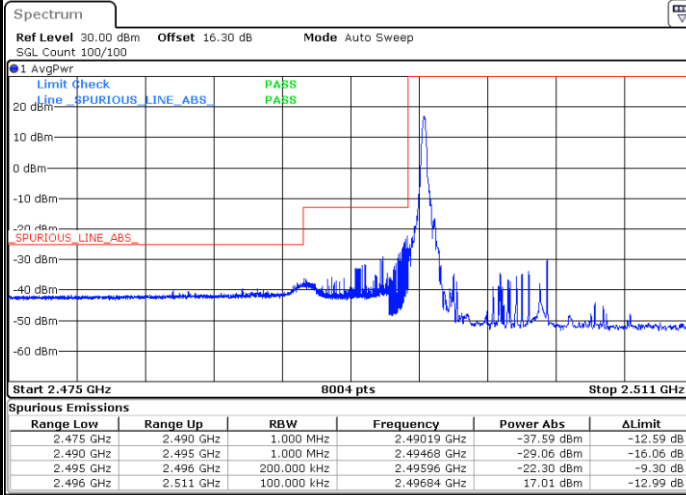
Highest Band Edge / Full RB





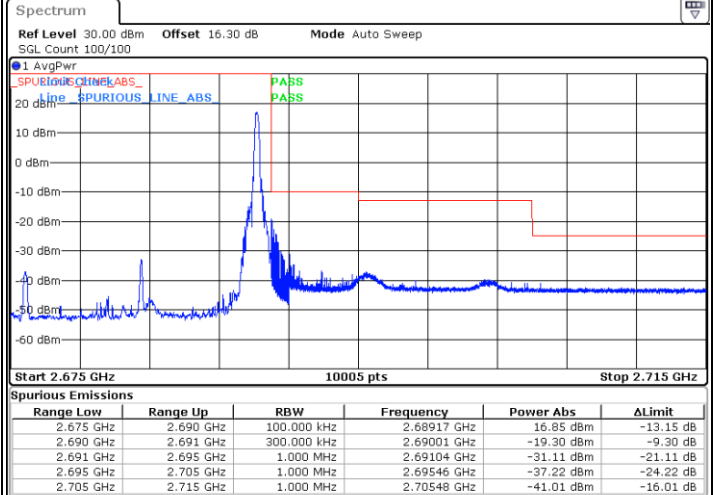
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



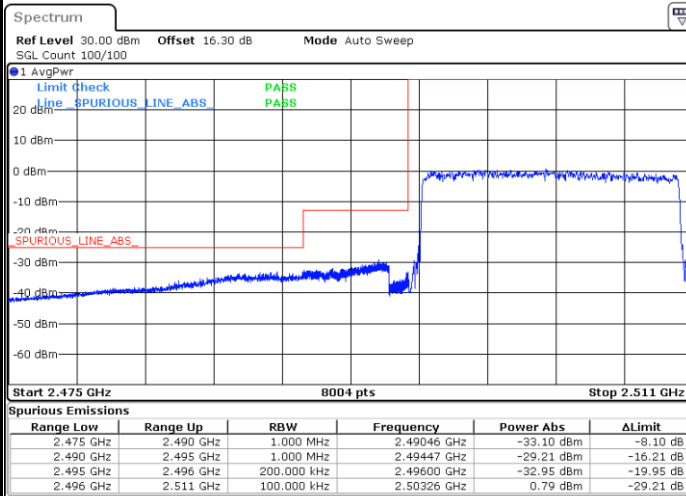
Date: 27.JUN.2021 08:24:54

Highest Band Edge / 1 RB



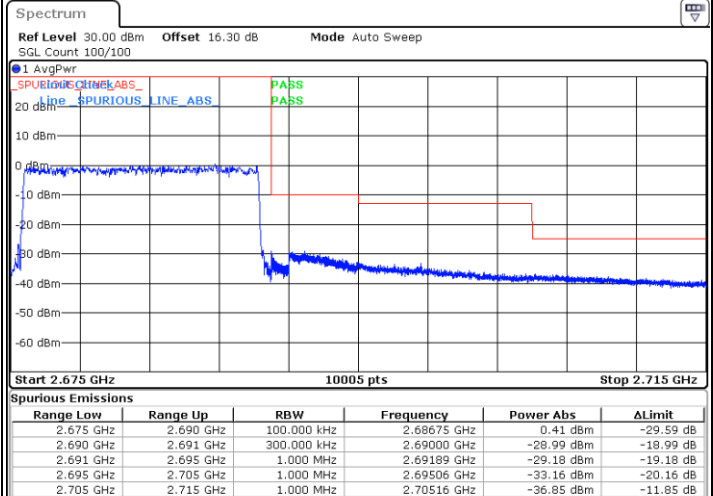
Date: 27.JUN.2021 08:26:37

Lowest Band Edge / Full RB



Date: 27.JUN.2021 08:25:46

Highest Band Edge / Full RB

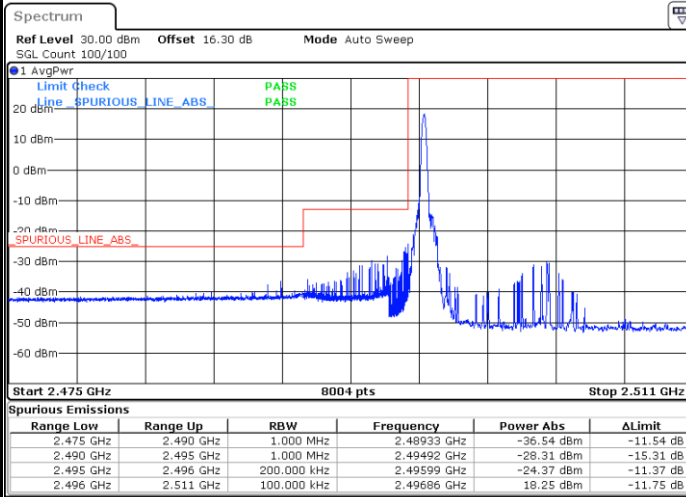


Date: 27.JUN.2021 08:27:28



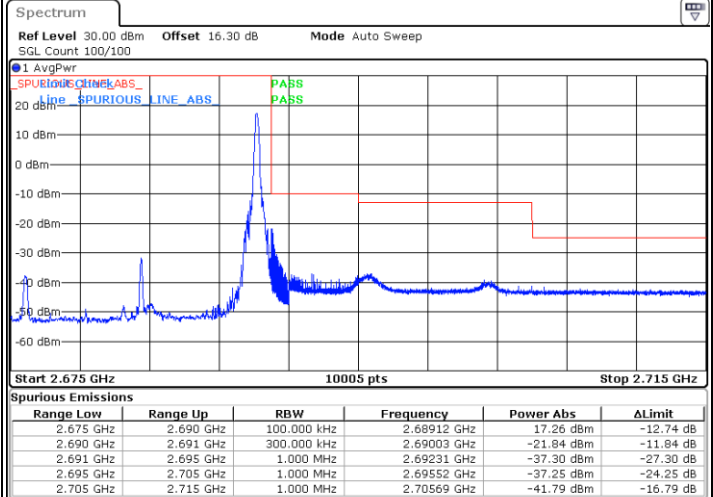
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



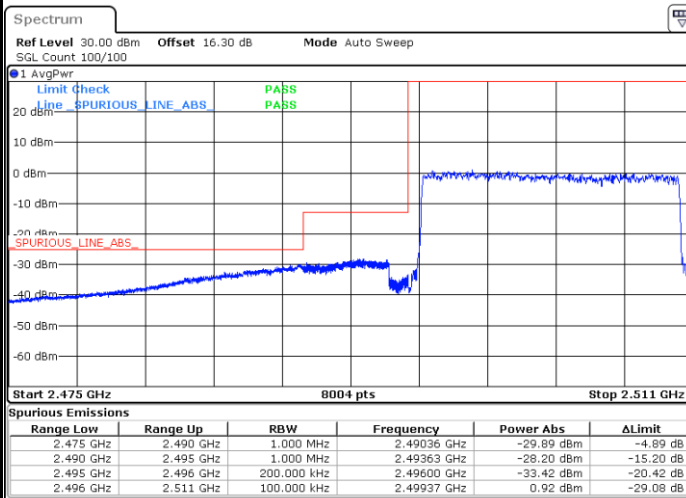
Date: 27.JUN.2021 08:22:46

Highest Band Edge / 1 RB



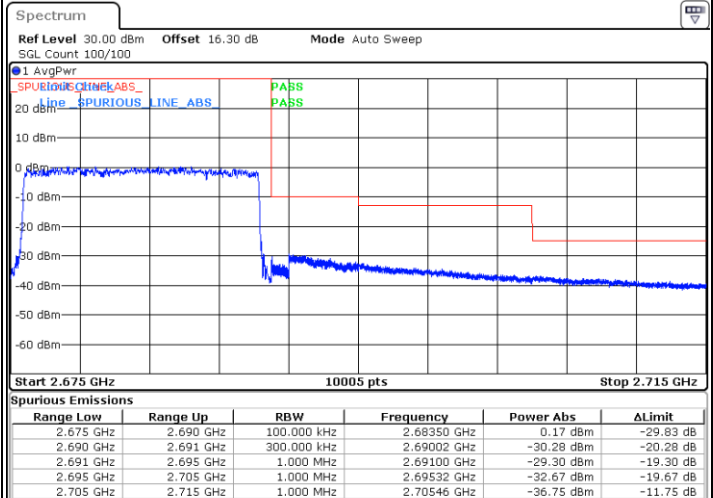
Date: 27.JUN.2021 08:23:37

Lowest Band Edge / Full RB



Date: 27.JUN.2021 08:23:12

Highest Band Edge / Full RB

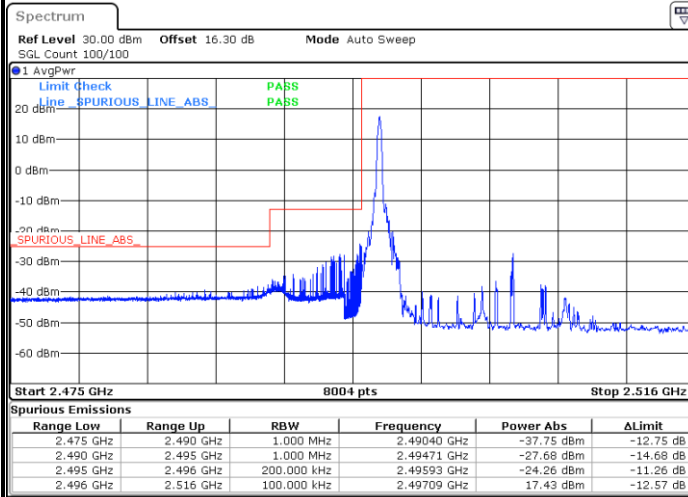


Date: 27.JUN.2021 08:24:03



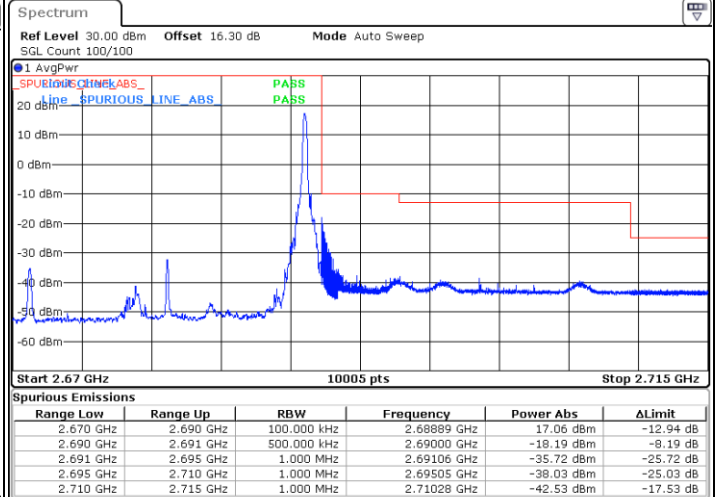
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



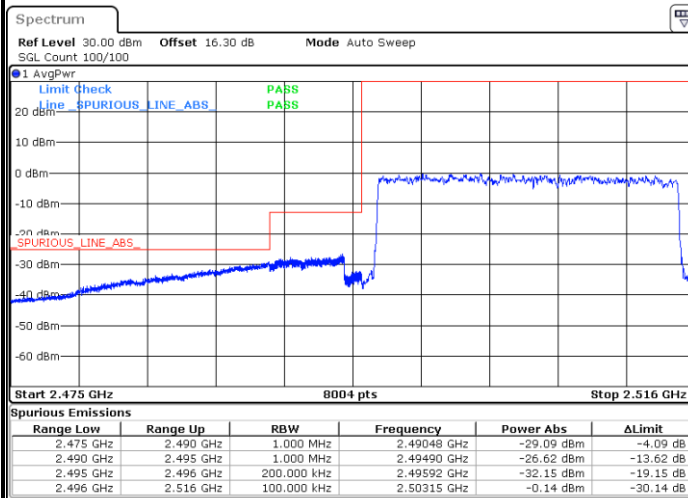
Date: 27.JUN.2021 08:27:55

Highest Band Edge / 1 RB



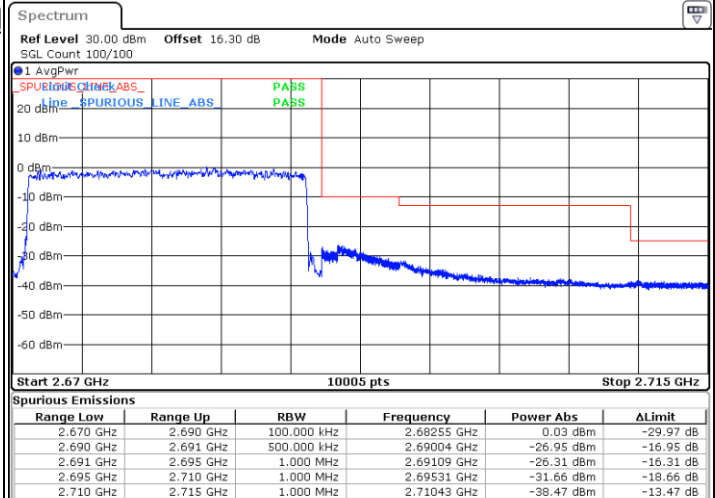
Date: 27.JUN.2021 08:29:38

Lowest Band Edge / Full RB



Date: 27.JUN.2021 08:28:46

Highest Band Edge / Full RB

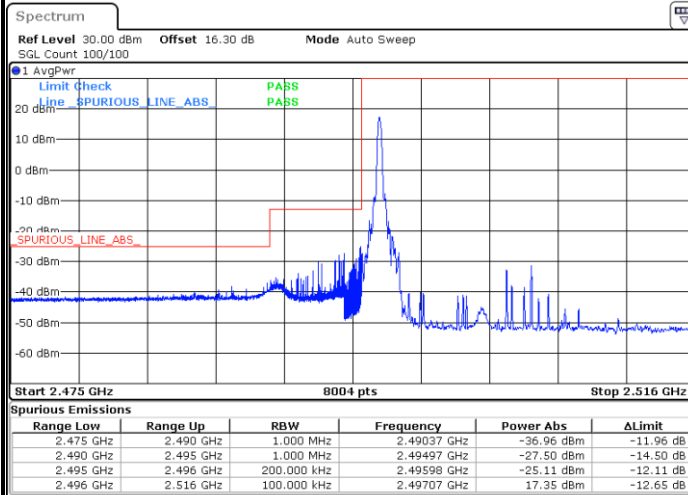


Date: 27.JUN.2021 08:30:54

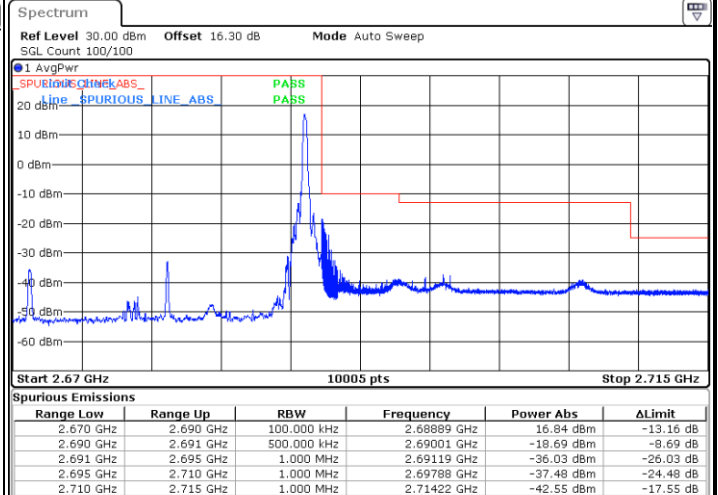


LTE Band 41 / 20MHz / 16QAM

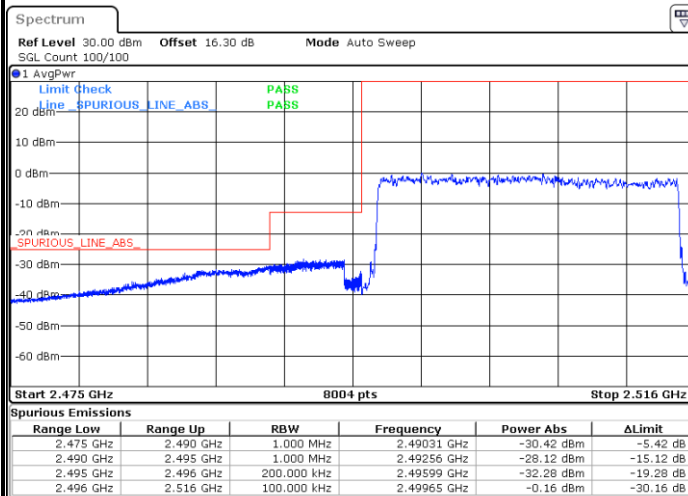
Lowest Band Edge / 1 RB



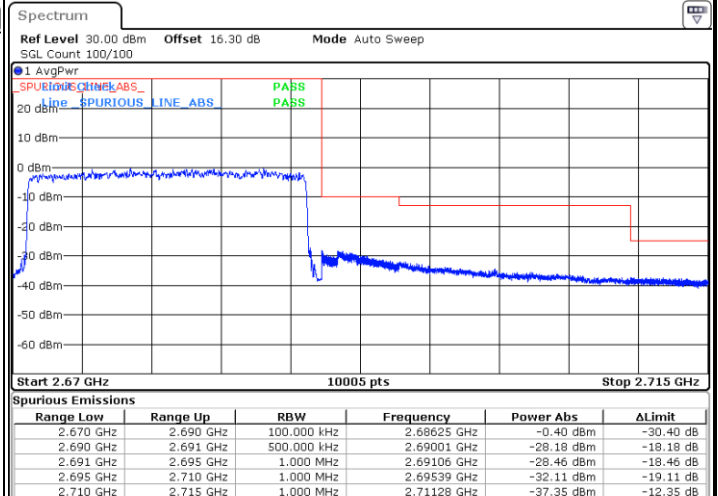
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



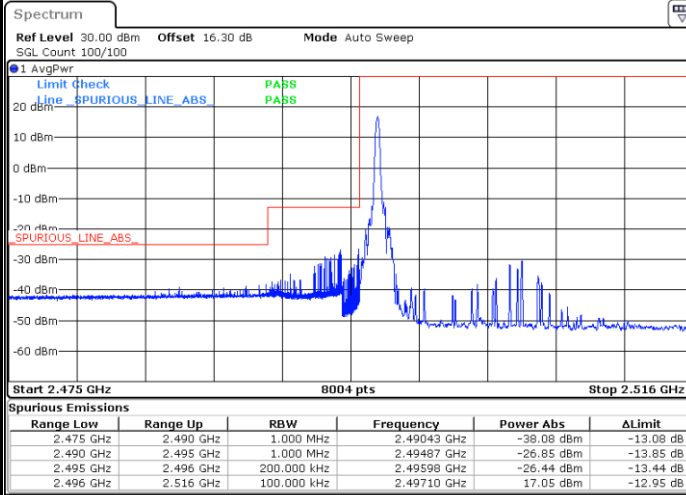
Highest Band Edge / Full RB



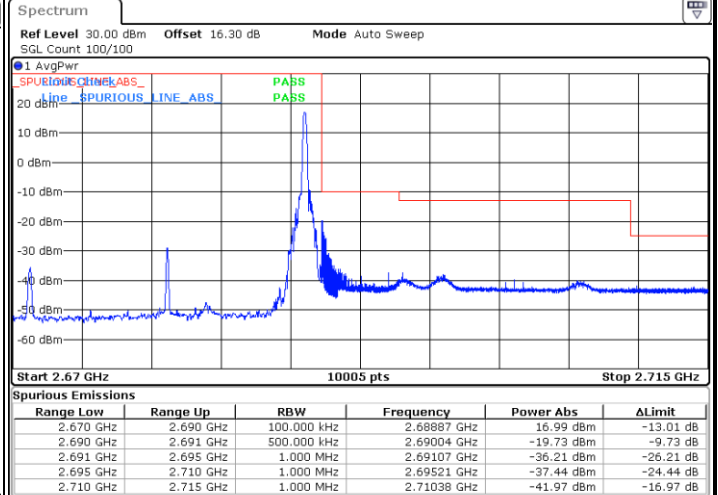


LTE Band 41 / 20MHz / 64QAM

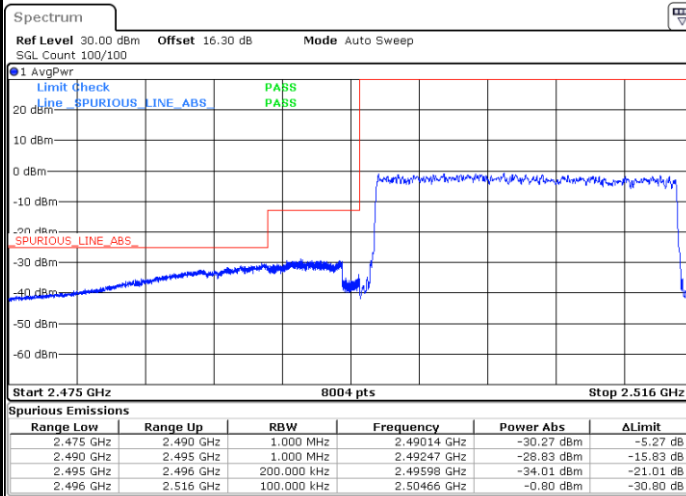
Lowest Band Edge / 1 RB



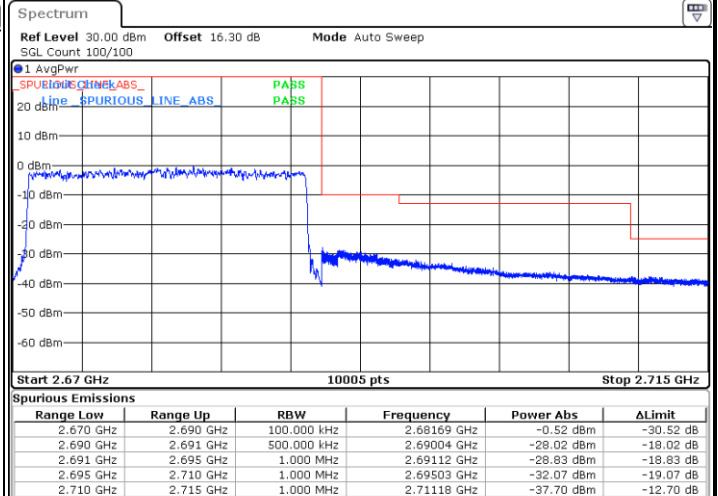
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

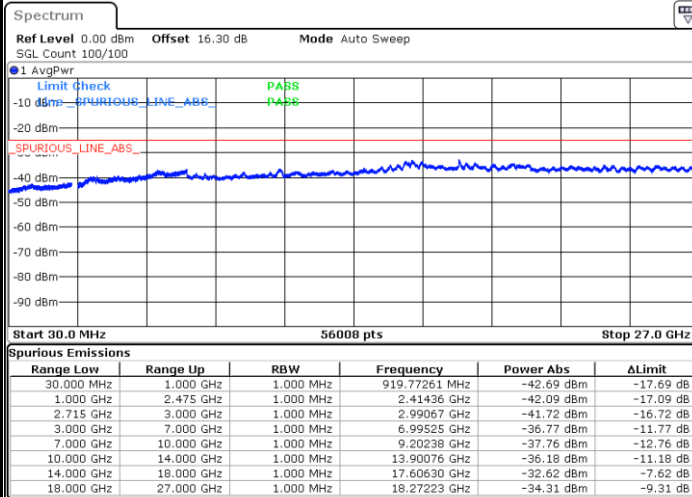




Conducted Spurious Emission

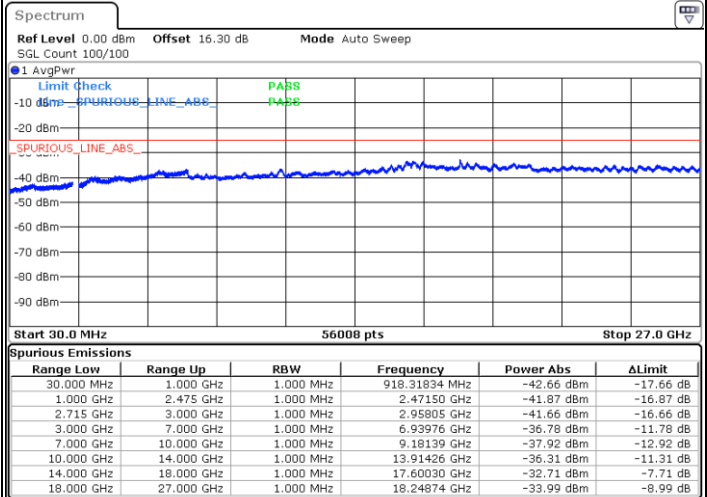
LTE Band 41 / 5MHz

Lowest Channel / QPSK



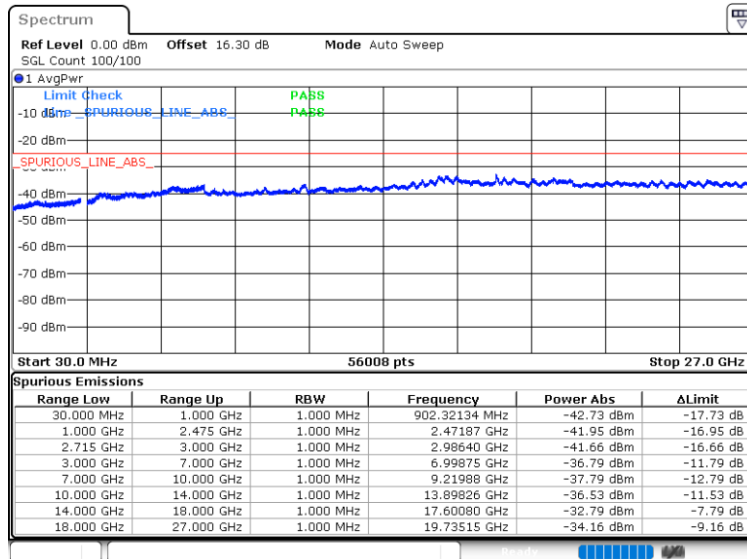
Date: 27.JUN.2021 08:33:39

Middle Channel / QPSK



Date: 27.JUN.2021 08:34:40

Highest Channel / QPSK

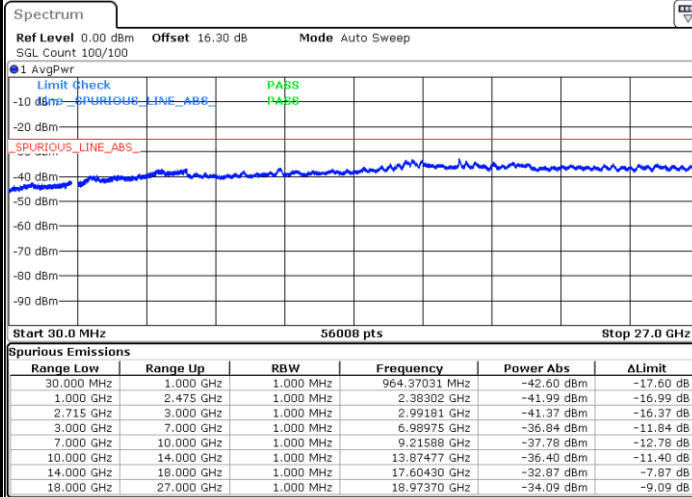


Date: 27.JUN.2021 08:35:41



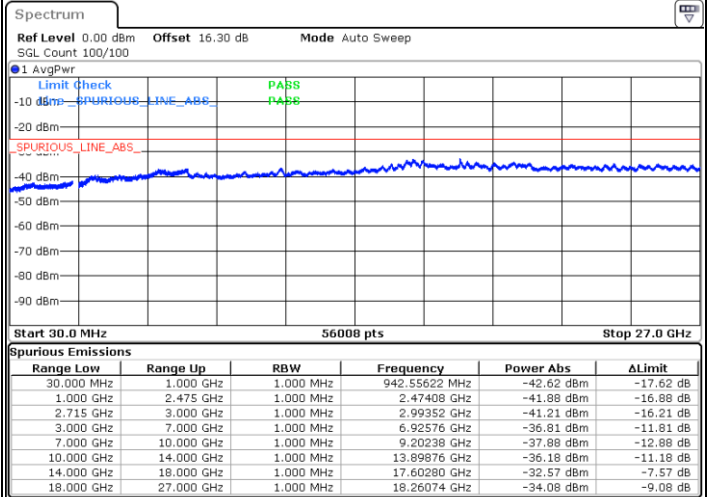
LTE Band 41 / 10MHz

Lowest Channel / QPSK



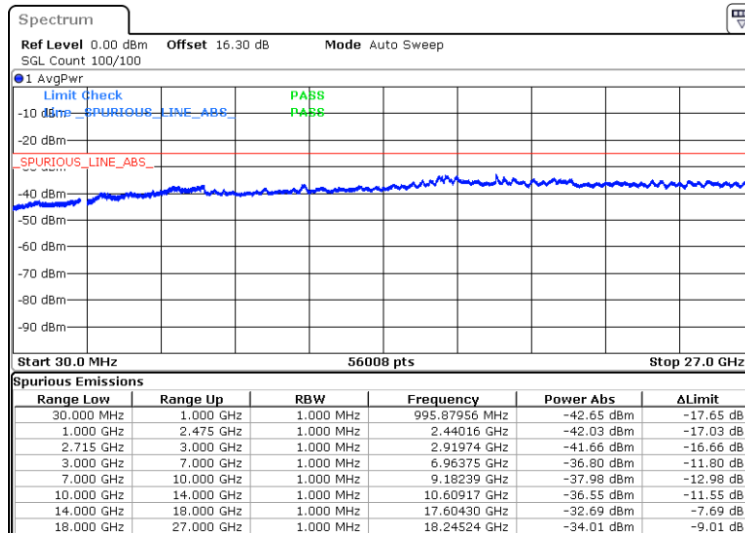
Date: 27.JUN.2021 08:36:44

Middle Channel / QPSK



Date: 27.JUN.2021 08:37:46

Highest Channel / QPSK

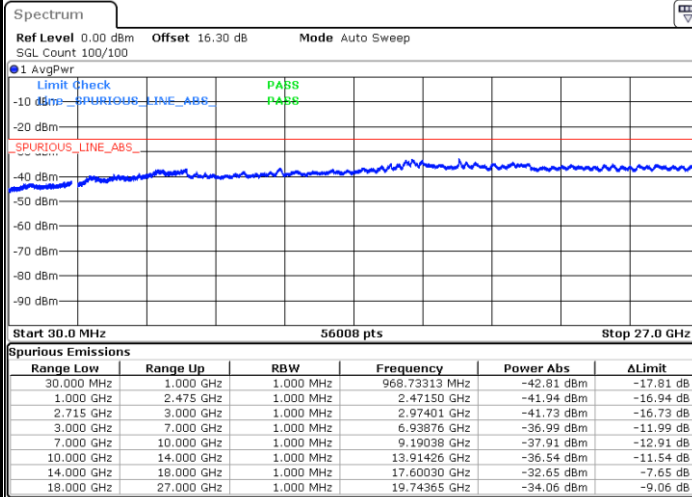


Date: 27.JUN.2021 08:38:47



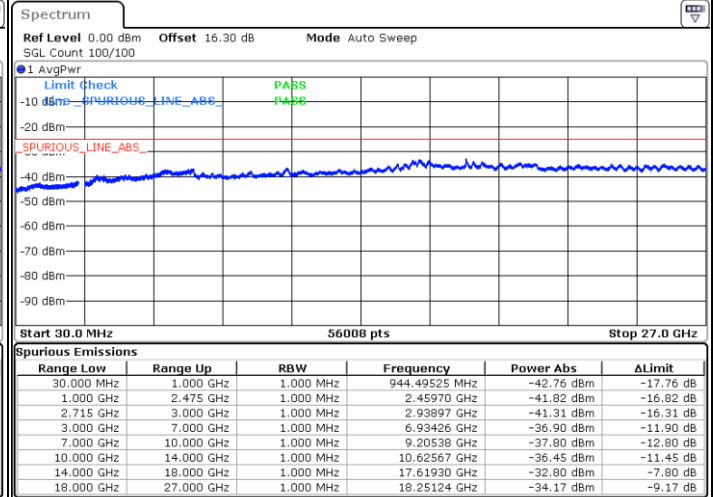
LTE Band 41 / 15MHz

Lowest Channel / QPSK



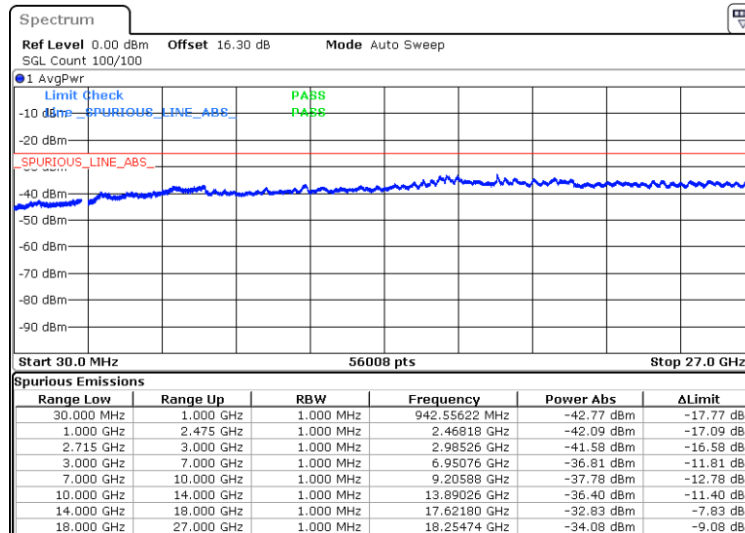
Date: 27.JUN.2021 08:39:50

Middle Channel / QPSK



Date: 27.JUN.2021 08:40:51

Highest Channel / QPSK

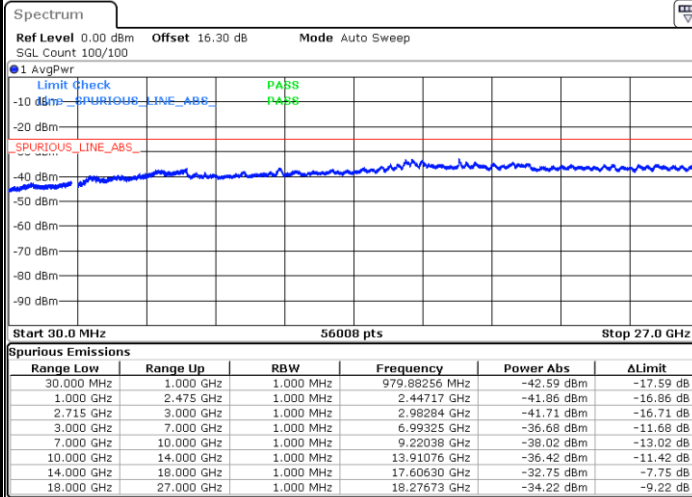


Date: 27.JUN.2021 08:41:53



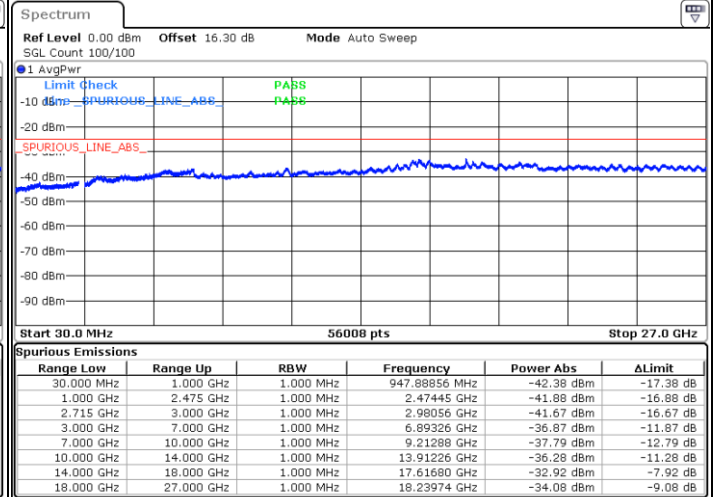
LTE Band 41 / 20MHz

Lowest Channel / QPSK



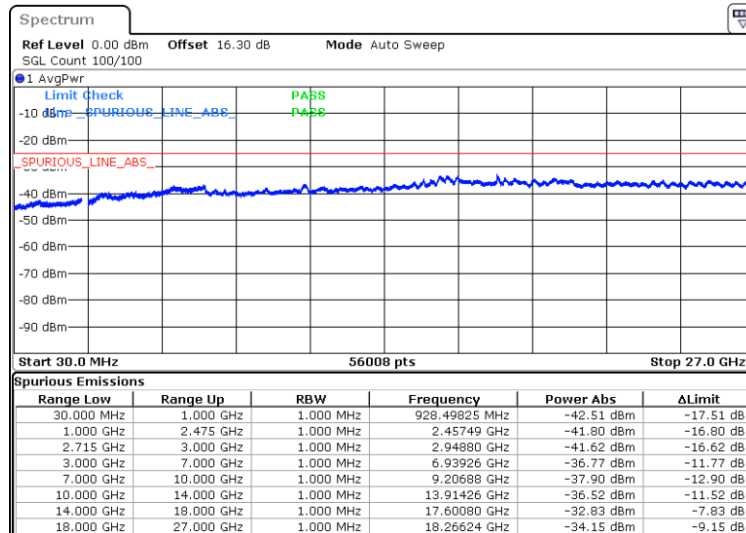
Date: 27.JUN.2021 08:42:56

Middle Channel / QPSK



Date: 27.JUN.2021 08:43:57

Highest Channel / QPSK



Date: 27.JUN.2021 08:47:12

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	0.0076	PASS
40	Normal Voltage	0.0077	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0072	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0047	
-20	Normal Voltage	0.0076	
-30	Normal Voltage	0.0076	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.67 V. ; Maximum Voltage =4.26 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

LTE Band 5

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)
Lowest	1649	-63.61	-13	-50.61	-75.59	-68.92	1.83	9.29	H
	2472	-52.92	-13	-39.92	-69.5	-59.15	2.25	10.63	H
	3296	-60.60	-13	-47.60	-79.3	-68.11	2.62	12.28	H
									H
									H
									H
	1649	-63.02	-13	-50.02	-75.45	-68.33	1.83	9.29	V
	2472	-55.82	-13	-42.82	-72.63	-62.05	2.25	10.63	V
	3296	-60.07	-13	-47.07	-79.17	-67.58	2.62	12.28	V
									V
									V
									V
Middle	1664	-64.77	-13	-51.77	-76.86	-70.16	1.84	9.38	H
	2496	-46.15	-13	-33.15	-62.91	-52.52	2.26	10.78	H
	3328	-60.50	-13	-47.50	-79.12	-68.24	2.64	12.52	H
									H
									H
									H
	1664	-64.24	-13	-51.24	-76.8	-69.63	1.84	9.38	V
	2496	-52.18	-13	-39.18	-69.01	-58.55	2.26	10.78	V
	3328	-60.25	-13	-47.25	-79.27	-67.99	2.64	12.52	V
									V
									V
									V



Highest	1679	-64.50	-13	-51.50	-76.71	-69.97	1.85	9.47	H
	2520	-56.11	-13	-43.11	-72.81	-62.49	2.27	10.80	H
	3358	-60.91	-13	-47.91	-79.47	-68.79	2.65	12.68	H
									H
									H
									H
									H
	1679	-63.86	-13	-50.86	-76.55	-69.33	1.85	9.47	V
	2520	-58.27	-13	-45.27	-75.14	-64.65	2.27	10.80	V
	3358	-60.37	-13	-47.37	-79.31	-68.25	2.65	12.68	V
									V
									V
									V
									V

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

**LTE Band 7**

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)
Lowest	5002	-56.91	-25	-31.91	-80.76	-66.23	3.27	12.59	H
	7503	-50.69	-25	-25.69	-80.19	-57.89	4.00	11.20	H
	10004	-46.68	-25	-21.68	-80.05	-53.22	4.67	11.21	H
									H
									H
									H
									H
	5002	-56.42	-25	-31.42	-80.95	-65.74	3.27	12.59	V
	7503	-50.58	-25	-25.58	-80.43	-57.78	4.00	11.20	V
	10004	-46.91	-25	-21.91	-80.04	-53.45	4.67	11.21	V
									V
									V
									V
									V
Middle	5052	-56.82	-25	-31.82	-80.85	-65.93	3.29	12.40	H
	7578	-51.03	-25	-26.03	-80.18	-58.31	4.03	11.31	H
	10104	-46.58	-25	-21.58	-80.19	-53.27	4.70	11.40	H
									H
									H
									H
									H
	5052	-56.07	-25	-31.07	-80.73	-65.18	3.29	12.40	V
	7578	-50.40	-25	-25.40	-80.05	-57.68	4.03	11.31	V
	10104	-47.03	-25	-22.03	-80.22	-53.72	4.70	11.40	V
									V
									V
									V
									V



Highest	5100	-56.58	-25	-31.58	-80.8	-65.57	3.31	12.30	H
	7563	-50.17	-25	-25.17	-79.26	-57.40	4.02	11.25	H
	10206	-45.85	-25	-20.85	-79.7	-52.41	4.73	11.29	H
									H
									H
									H
									H
	5100	-55.97	-25	-30.97	-80.77	-64.96	3.31	12.30	V
	7563	-50.74	-25	-25.74	-80.43	-57.97	4.02	11.25	V
	10206	-46.65	-25	-21.65	-79.9	-53.21	4.73	11.29	V
									V
									V
									V
									V

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

**LTE Band 4**

LTE Band 4 / 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)
Lowest	3420	-60.23	-13	-47.23	-79.65	-71.12	1.23	12.12	H
	5133	-56.52	-13	-43.52	-80.86	-67.41	1.97	12.86	H
	6844	-51.91	-13	-38.91	-79.97	-60.87	2.34	11.30	H
									H
									H
									H
									H
	3420	-59.90	-13	-46.90	-79.69	-70.79	1.23	12.12	V
	5133	-56.23	-13	-43.23	-81.12	-67.12	1.97	12.86	V
	6844	-51.74	-13	-38.74	-80.16	-60.70	2.34	11.30	V
									V
									V
									V
									V
Middle	3448	-60.35	-13	-47.35	-80.2	-70.25	2.70	12.60	H
	5170	-56.63	-13	-43.63	-81.11	-65.92	3.33	12.62	H
	6894	-51.62	-13	-38.62	-79.83	-59.79	3.88	12.05	H
									H
									H
									H
									H
	3448	-59.33	-13	-46.33	-79.37	-69.23	2.70	12.60	V
	5170	-55.85	-13	-42.85	-80.85	-65.14	3.33	12.62	V
	6894	-51.34	-13	-38.34	-79.75	-59.51	3.88	12.05	V
									V
									V
									V
									V



Highest	3469	-59.70	-13	-46.70	-79.64	-70.69	1.24	12.23	H
	5208	-56.41	-13	-43.41	-81	-67.38	1.97	12.95	H
	6944	-50.98	-13	-37.98	-79.34	-60.24	2.36	11.62	H
									H
									H
									H
									H
	3469	-59.33	-13	-46.33	-79.56	-70.32	1.24	12.23	V
	5208	-55.74	-13	-42.74	-80.81	-66.71	1.97	12.95	V
	6944	-50.87	-13	-37.87	-79.27	-60.13	2.36	11.62	V
									V
									V
									V
									V

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

**LTE Band 17**

LTE Band 17 / 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)
Lowest	1408	-64.71	-13	-51.71	-76.18	-67.83	1.69	6.96	H
	2113	-63.01	-13	-50.01	-77.78	-68.15	2.08	9.37	H
	2818	-61.02	-13	-48.02	-78.60	-67.67	2.40	11.20	H
									H
									H
									H
									H
	1408	-64.37	-13	-51.37	-75.91	-67.49	1.69	6.96	V
	2113	-62.55	-13	-49.55	-77.82	-67.69	2.08	9.37	V
	2818	-60.69	-13	-47.69	-78.57	-67.34	2.40	11.20	V
									V
									V
									V
									V
Middle	1408	-64.73	-13	-51.73	-76.12	-67.85	1.69	6.96	H
	2116	-63.21	-13	-50.21	-78.01	-68.32	2.08	9.34	H
	2822	-61.02	-13	-48.02	-78.60	-67.67	2.40	11.20	H
									H
									H
									H
									H
	1408	-63.97	-13	-50.97	-75.51	-67.09	1.69	6.96	V
	2120	-62.27	-13	-49.27	-77.58	-67.33	2.09	9.30	V
	2822	-60.07	-13	-47.07	-77.96	-66.72	2.40	11.20	V
									V
									V
									V
									V



Highest	1416	-64.34	-13	-51.34	-75.83	-67.52	1.70	7.03	H
	2119	-62.70	-13	-49.70	-77.54	-67.78	2.08	9.31	H
	2826	-60.78	-13	-47.78	-78.36	-67.43	2.40	11.20	H
									H
									H
									H
									H
	1416	-64.09	-13	-51.09	-75.69	-67.27	1.70	7.03	V
	2119	-62.47	-13	-49.47	-77.82	-67.55	2.08	9.31	V
	2826	-60.46	-13	-47.46	-78.35	-67.11	2.40	11.20	V
									V
									V
									V
									V

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

**LTE Band 13**

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)
Lowest	1555	-59.02	-13	-46.02	-71.01	-63.72	1.78	8.63	H
	2332	-55.18	-13	-42.18	-71.10	-60.54	2.18	9.69	H
	3109	-57.16	-13	-44.16	-75.48	-63.80	2.53	11.32	H
									H
									H
									H
									H
	1555	-58.61	-13	-45.61	-70.71	-63.31	1.78	8.63	V
	2332	-50.16	-13	-37.16	-66.79	-55.52	2.18	9.69	V
	3109	-56.64	-13	-43.64	-75.51	-63.28	2.53	11.32	V
									V
									V
									V
									V
Middle	1560	-60.04	-42.15	-17.89	-71.99	-64.77	1.78	8.66	H
	2336	-55.97	-13	-42.97	-71.90	-61.35	2.18	9.72	H
	3112	-57.29	-13	-44.29	-75.63	-63.93	2.53	11.32	H
									H
									H
									H
									H
	1560	-60.72	-42.15	-18.57	-72.81	-65.45	1.78	8.66	V
	2336	-52.01	-13	-39.01	-68.65	-57.39	2.18	9.72	V
	3112	-56.93	-13	-43.93	-75.82	-63.57	2.53	11.32	V
									V
									V
									V
									V



Highest	1565	-58.00	-42.15	-15.85	-69.90	-62.75	1.79	8.69	H
	2347	-51.50	-13	-38.50	-67.45	-56.94	2.19	9.78	H
	3129	-58.09	-13	-45.09	-76.55	-64.76	2.54	11.36	H
									H
									H
									H
									H
	1565	-58.71	-42.15	-16.56	-70.79	-63.46	1.79	8.69	V
	2347	-51.27	-13	-38.27	-67.93	-56.71	2.19	9.78	V
	3129	-57.55	-13	-44.55	-76.53	-64.22	2.54	11.36	V
									V
									V
									V
									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	1552	-60.22	-13	-47.22	-72.24	-64.90	1.78	8.61	H
	2336	-57.24	-13	-44.24	-73.17	-62.62	2.18	9.72	H
	3110	-57.54	-13	-44.54	-75.88	-64.18	2.53	11.32	H
									H
									H
									H
									H
	1552	-61.46	-13	-48.46	-73.56	-66.14	1.78	8.61	V
	2336	-53.28	-13	-40.28	-69.91	-58.66	2.18	9.72	V
	3110	-56.91	-13	-43.91	-75.79	-63.55	2.53	11.32	V
									V
									V
									V
									V

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

**LTE Band 41**

LTE Band 41 / 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)
Lowest	4992	-56.62	-25	-31.62	-80.45	-65.97	3.27	12.62	H
	7491	-50.77	-25	-25.77	-80.28	-57.95	4.00	11.18	H
	9990	-46.78	-25	-21.78	-80.14	-53.29	4.67	11.18	H
									H
									H
									H
									H
	4992	-55.97	-25	-30.97	-80.47	-65.32	3.27	12.62	V
	7491	-50.23	-25	-25.23	-80.11	-57.41	4.00	11.18	V
	9990	-47.25	-25	-22.25	-80.36	-53.76	4.67	11.18	V
									V
									V
									V
									V
Middle	5168	-56.03	-25	-31.03	-80.5	-65.31	3.33	12.61	H
	7752	-49.94	-25	-24.94	-79.13	-57.74	4.09	11.89	H
	10336	-45.53	-25	-20.53	-79.69	-51.68	4.77	10.92	H
									H
									H
									H
									H
	5168	-55.34	-25	-30.34	-80.33	-64.62	3.33	12.61	V
	7752	-49.45	-25	-24.45	-79.14	-57.25	4.09	11.89	V
	10336	-46.24	-25	-21.24	-79.57	-52.39	4.77	10.92	V
									V
									V
									V
									V



Highest	5340	-55.48	-25	-30.48	-80.12	-65.57	3.39	13.48	H
	8013	-48.71	-25	-23.71	-78.67	-55.38	4.18	10.85	H
	10683	-45.41	-25	-20.41	-79.89	-51.62	4.86	11.07	H
									H
									H
									H
									H
	5340	-55.34	-25	-30.34	-80.24	-65.43	3.39	13.48	V
	8013	-48.64	-25	-23.64	-78.73	-55.31	4.18	10.85	V
	10683	-46.38	-25	-21.38	-80.03	-52.59	4.86	11.07	V
									V
									V
									V
									V

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

————THE END————