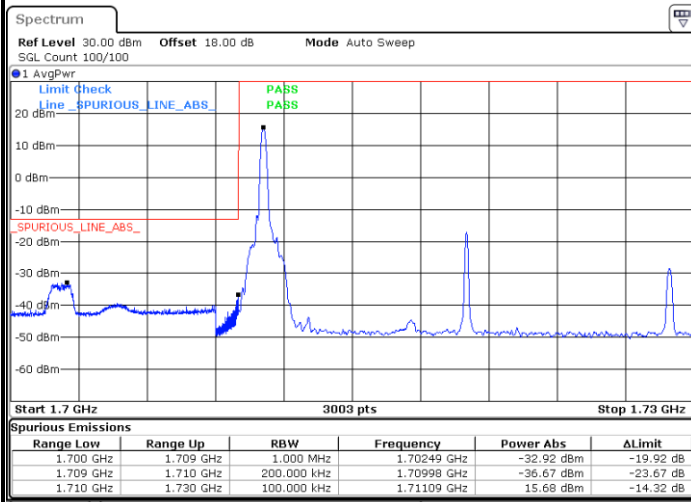


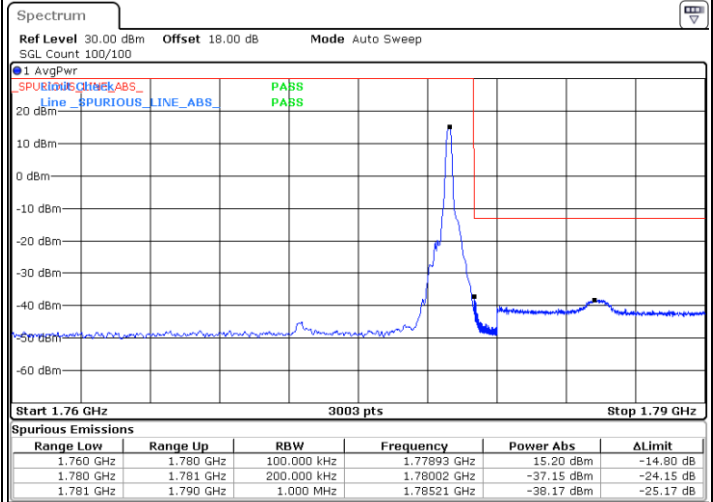


ULCA-12A-66A / SCC(66A) 20MHz / 64QAM

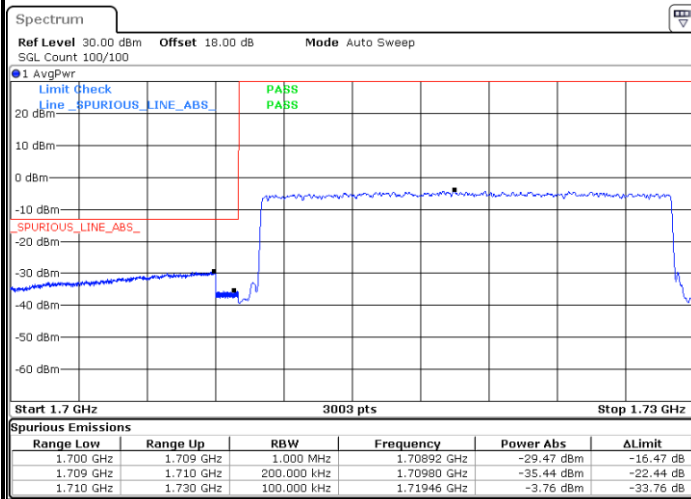
Lowest Band Edge / 1 RB



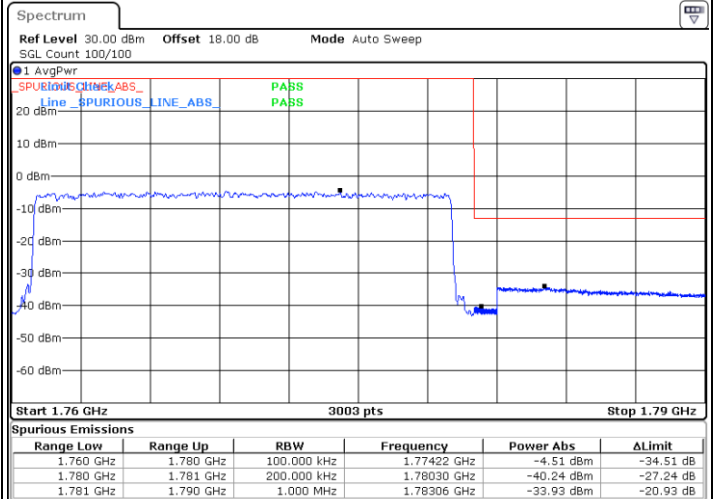
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



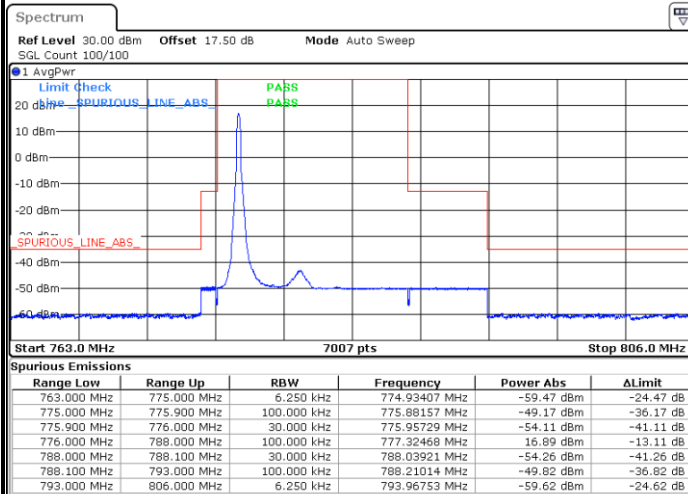
Highest Band Edge / Full RB





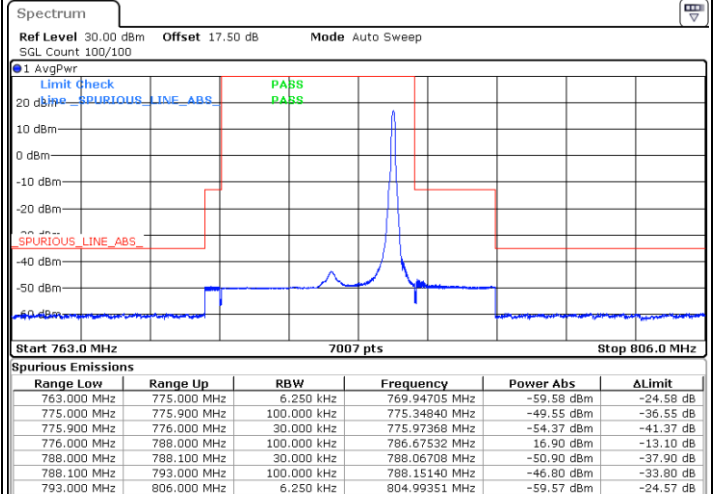
ULCA-13A-66A / PCC(13A) 5MHz / QPSK

Lowest Band Edge / 1RB



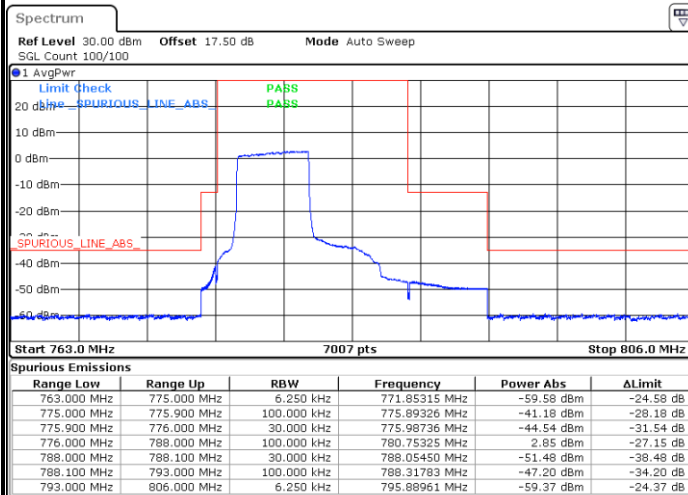
Date: 1.JAN.2007 03:01:49

Highest Band Edge / 1RB



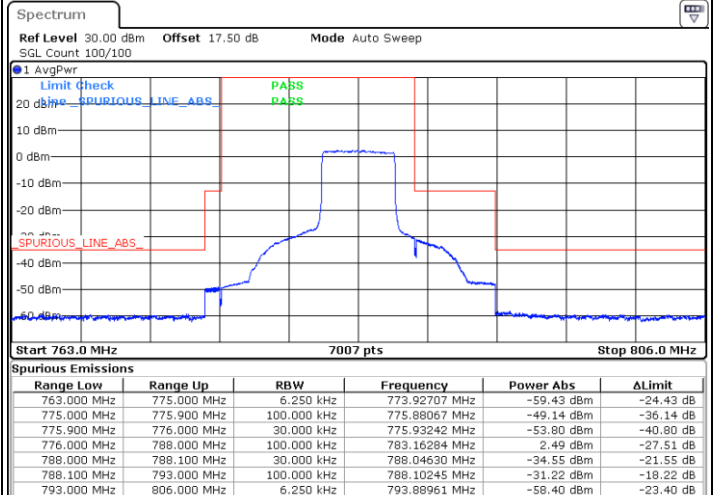
Date: 1.JAN.2007 03:19:37

Lowest Band Edge / Full RB



Date: 1.JAN.2007 03:09:20

Highest Band Edge / Full RB

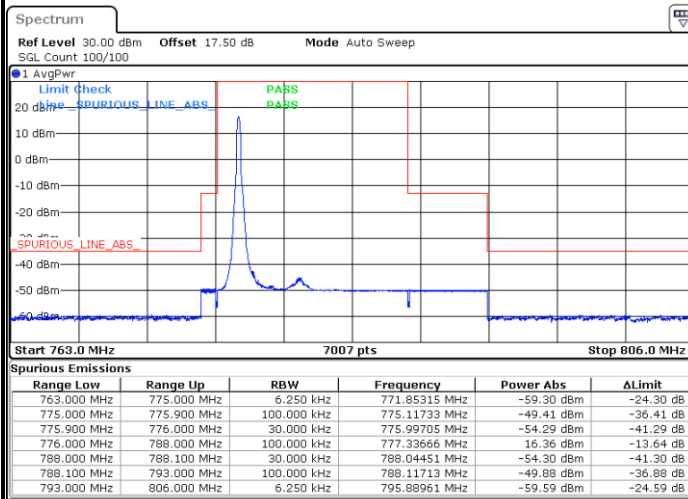


Date: 1.JAN.2007 03:11:16

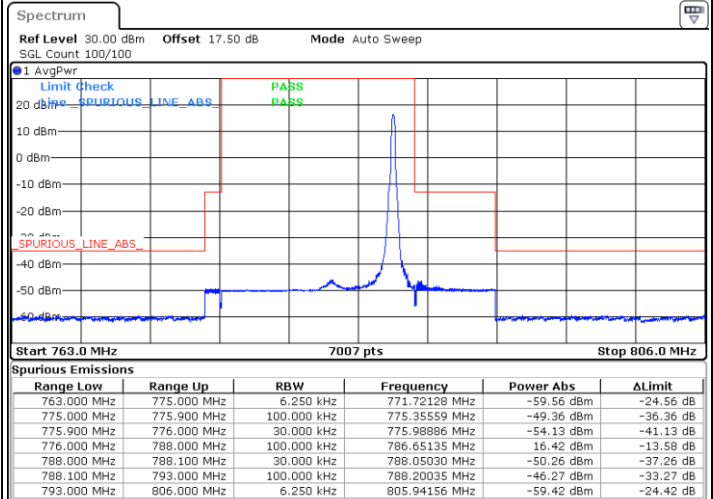


ULCA-13A-66A / PCC(13A) 5MHz / 16QAM

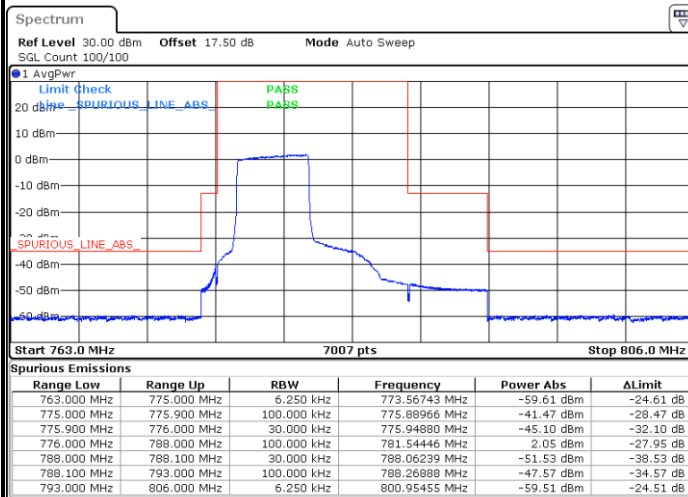
Lowest Band Edge / 1 RB



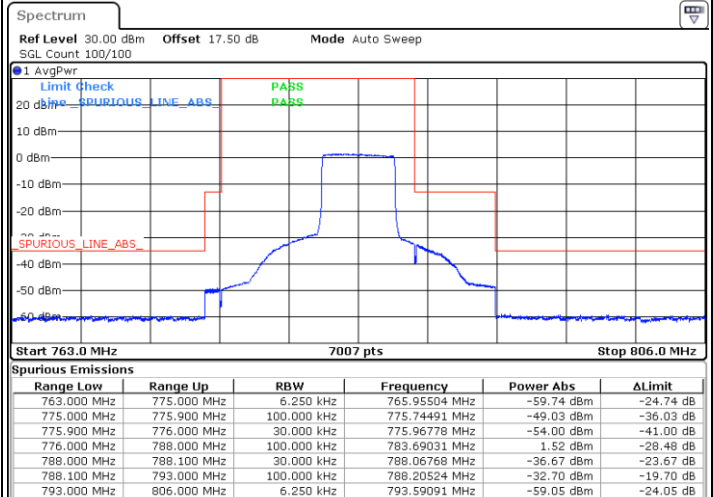
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



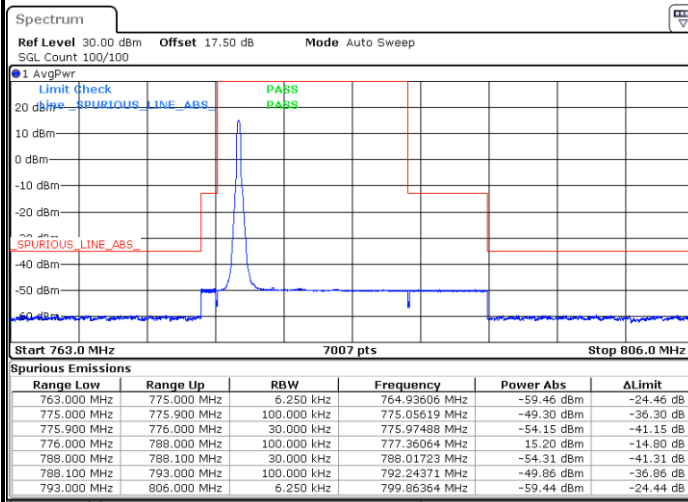
Highest Band Edge / Full RB





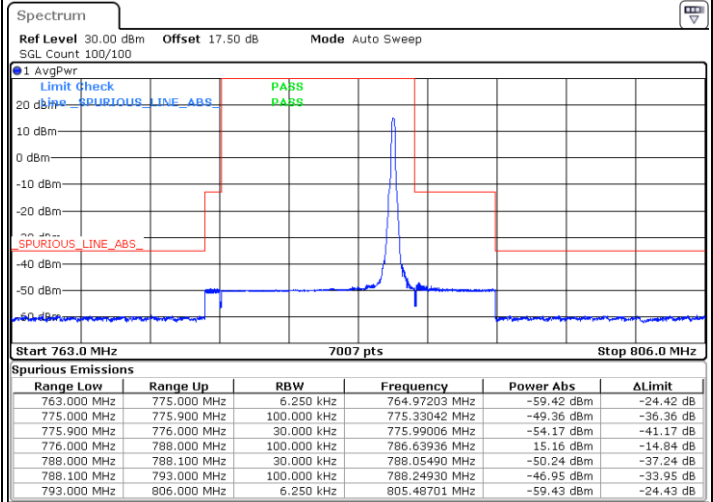
ULCA-13A-66A / PCC(13A) 5MHz / 64QAM

Lowest Band Edge / 1 RB



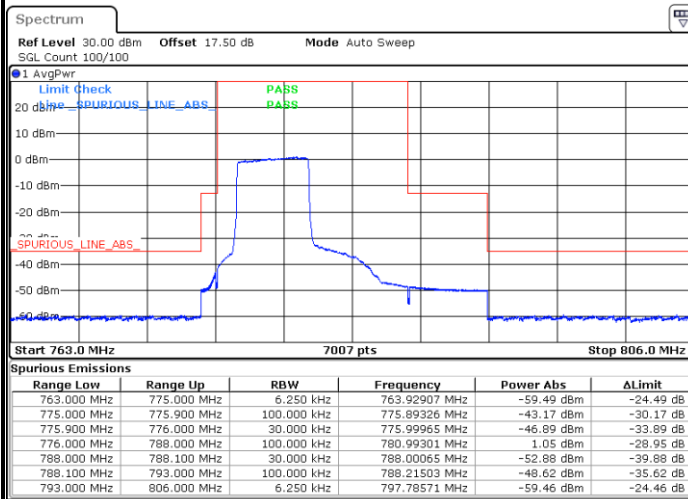
Date: 1.JAN.2007 03:04:29

Highest Band Edge / 1 RB



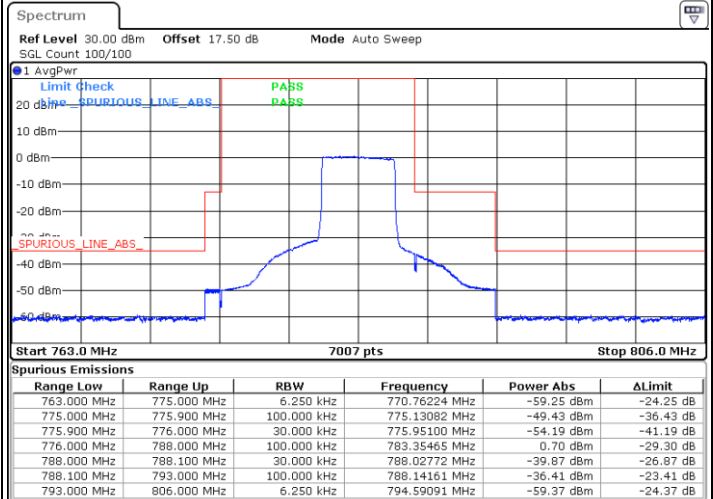
Date: 1.JAN.2007 03:16:01

Lowest Band Edge / Full RB



Date: 1.JAN.2007 03:05:48

Highest Band Edge / Full RB

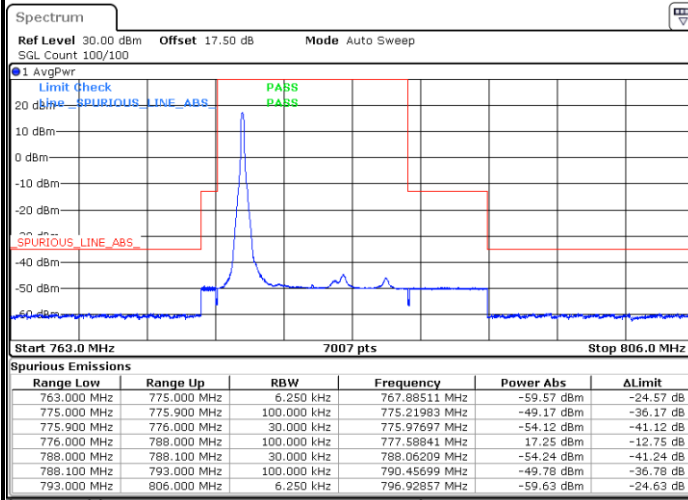


Date: 1.JAN.2007 03:14:18



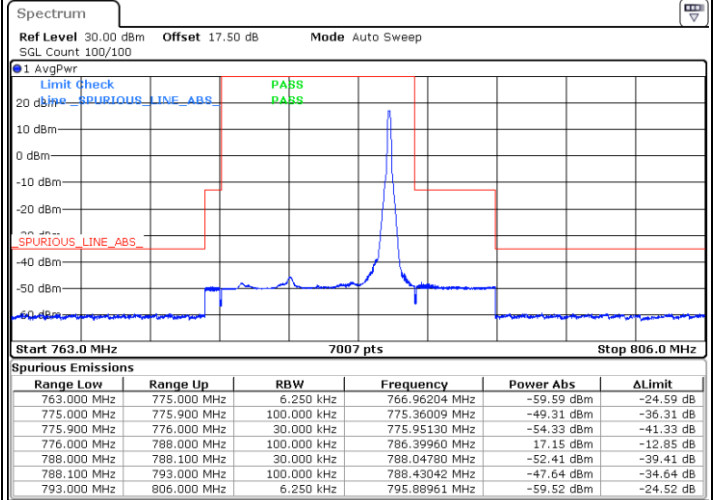
ULCA-13A-66A / PCC(13A) 10MHz / QPSK

Lowest Band Edge / 1 RB



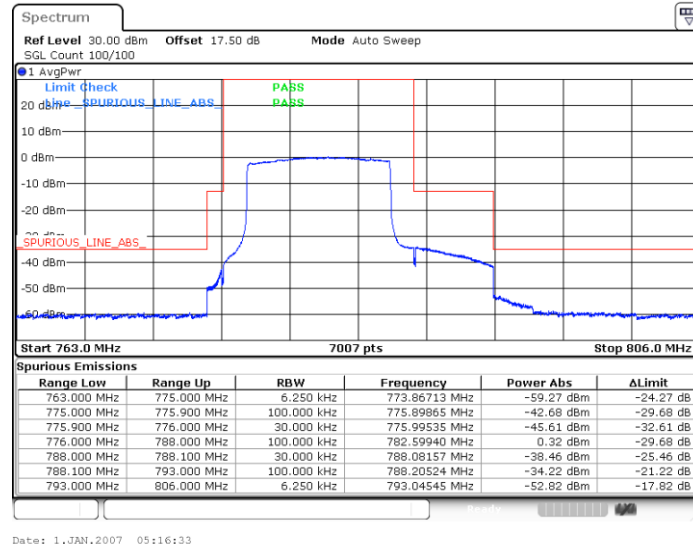
Date: 1.JAN.2007 05:07:11

Highest Band Edge / 1 RB



Date: 1.JAN.2007 05:18:04

Band Edge / Full RB

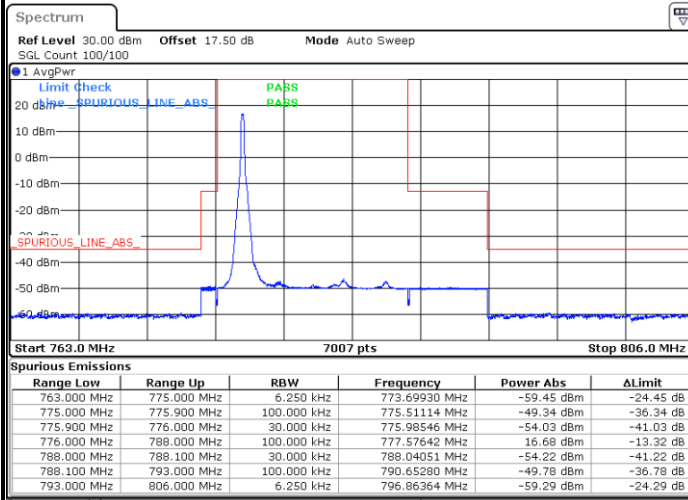


Date: 1.JAN.2007 05:16:33



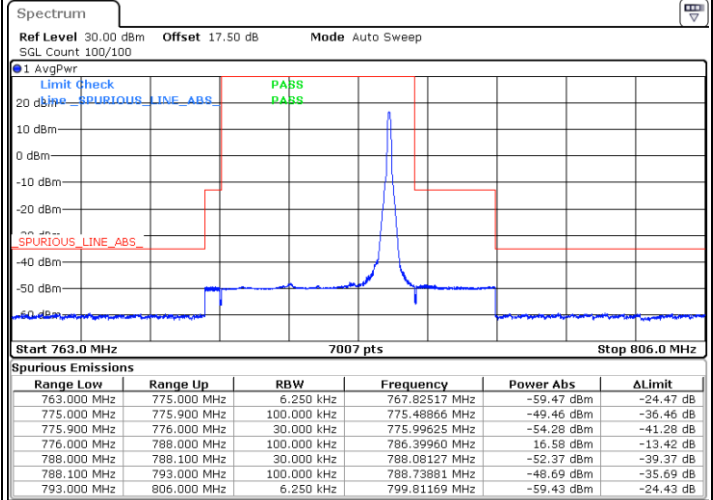
ULCA-13A-66A / PCC(13A) 10MHz / 16QAM

Lowest Band Edge / 1 RB



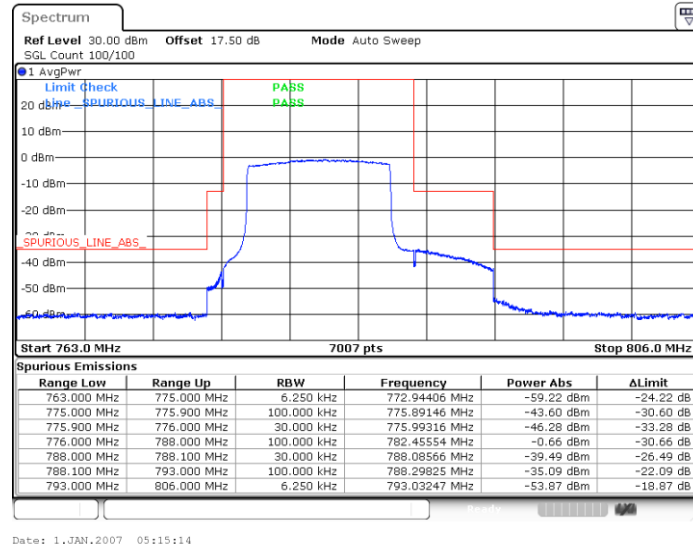
Date: 1.JAN.2007 05:08:57

Highest Band Edge / 1 RB



Date: 1.JAN.2007 05:19:24

Band Edge / Full RB

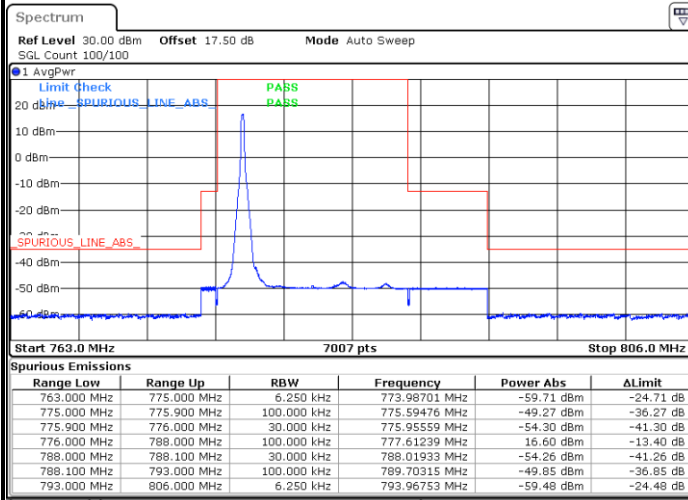


Date: 1.JAN.2007 05:15:14



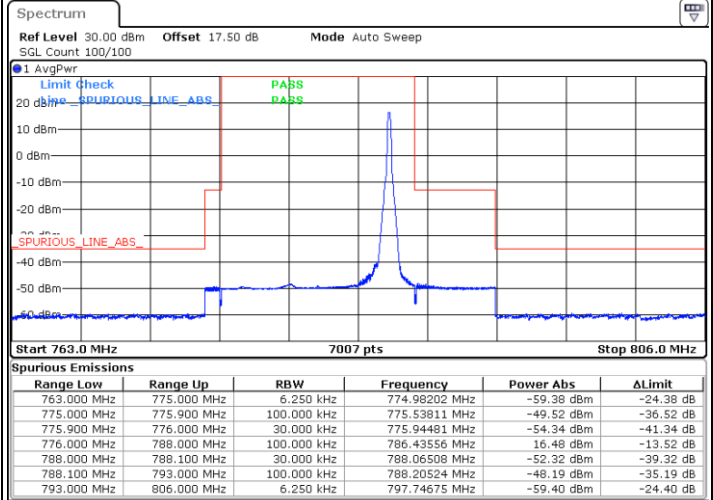
ULCA-13A-66A / PCC(13A) 10MHz / 64QAM

Lowest Band Edge / 1 RB



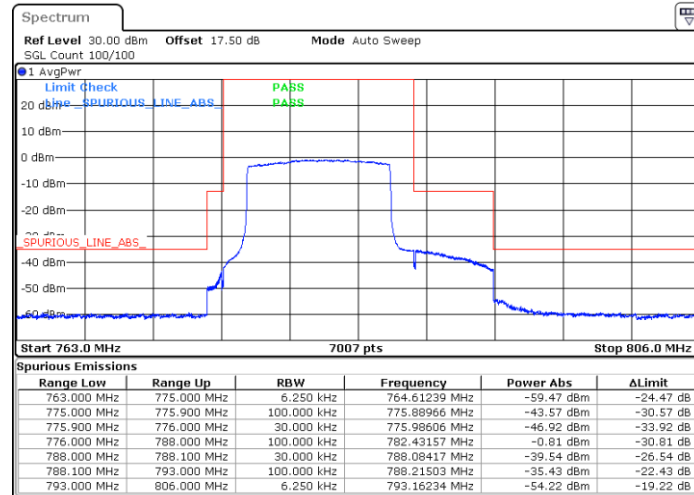
Date: 1.JAN.2007 05:10:38

Highest Band Edge / 1 RB



Date: 1.JAN.2007 05:20:42

Band Edge / Full RB

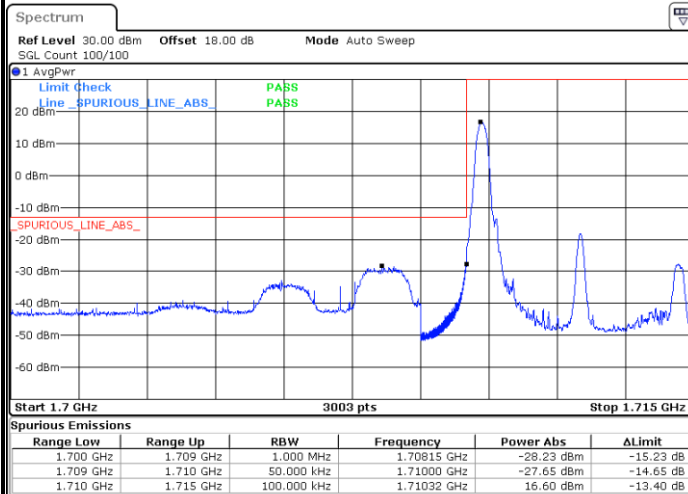


Date: 1.JAN.2007 05:13:43

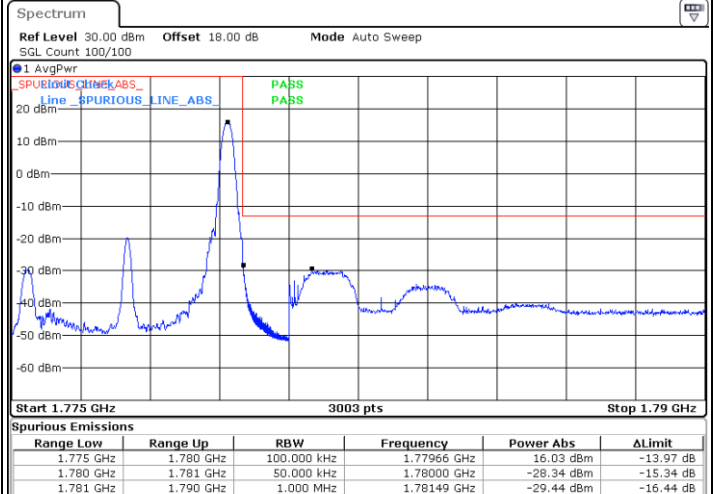


ULCA-13A-66A / SCC(66A) 5MHz / QPSK

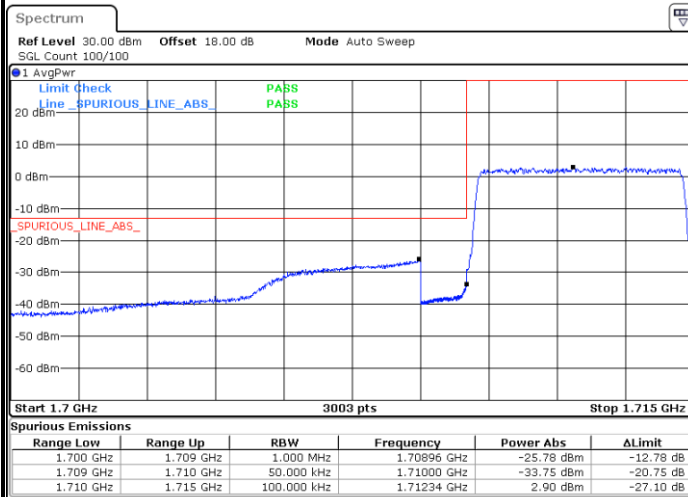
Lowest Band Edge / 1RB



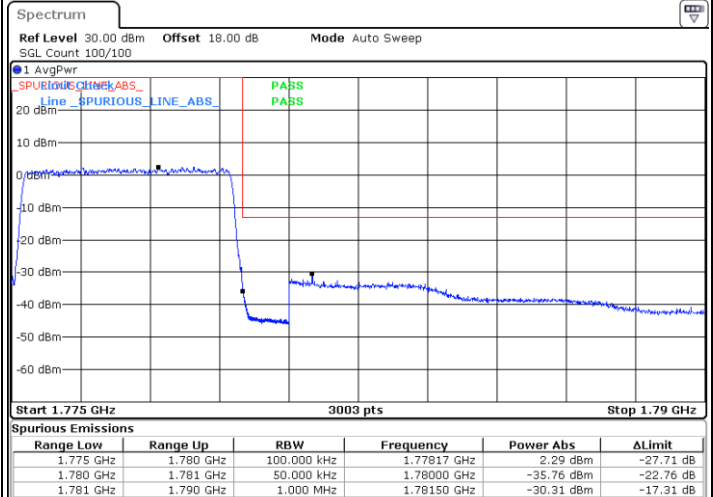
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



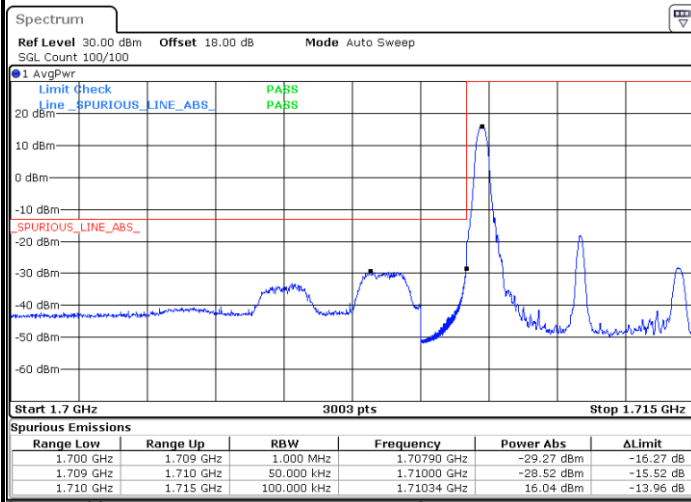
Highest Band Edge / Full RB



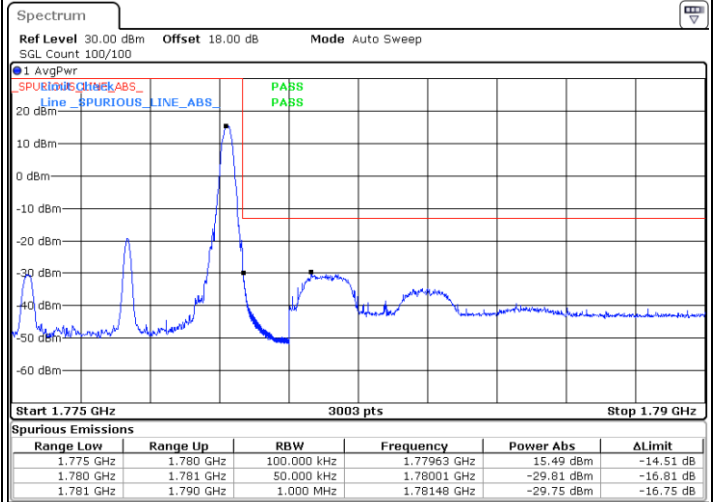


ULCA-13A-66A / SCC(66A) 5MHz / 16QAM

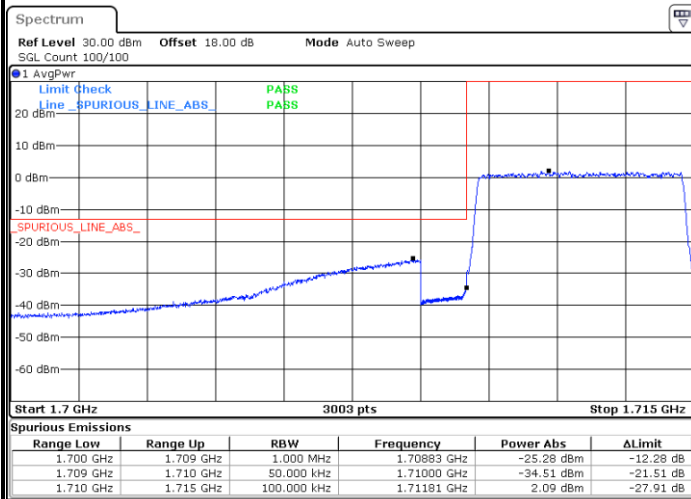
Lowest Band Edge / 1 RB



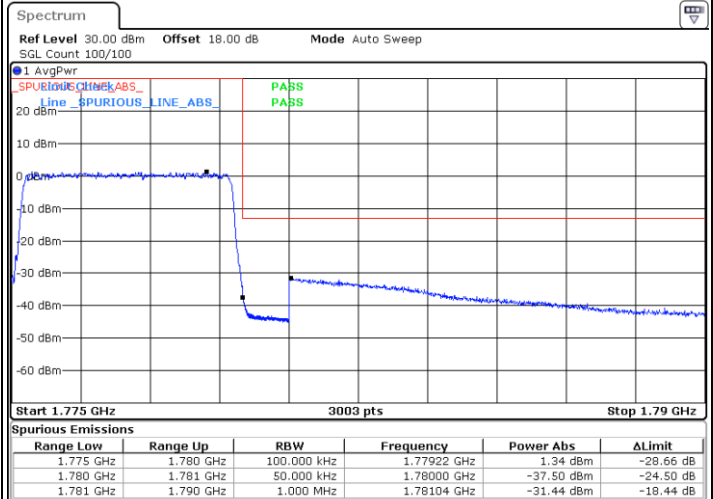
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



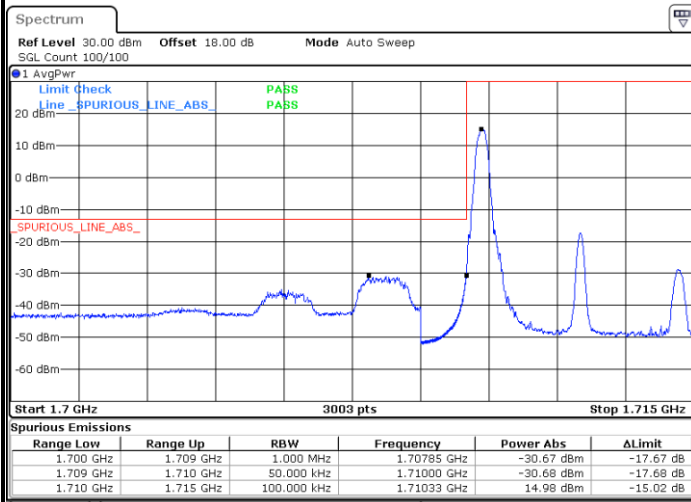
Highest Band Edge / Full RB





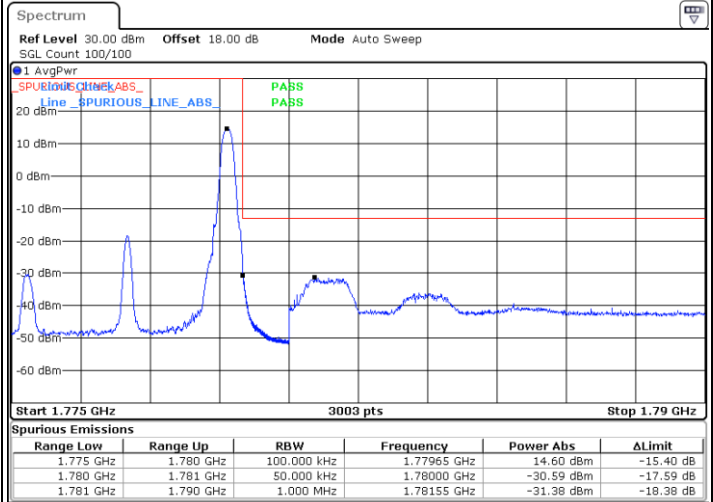
ULCA-13A-66A / SCC(66A) 5MHz / 64QAM

Lowest Band Edge / 1 RB



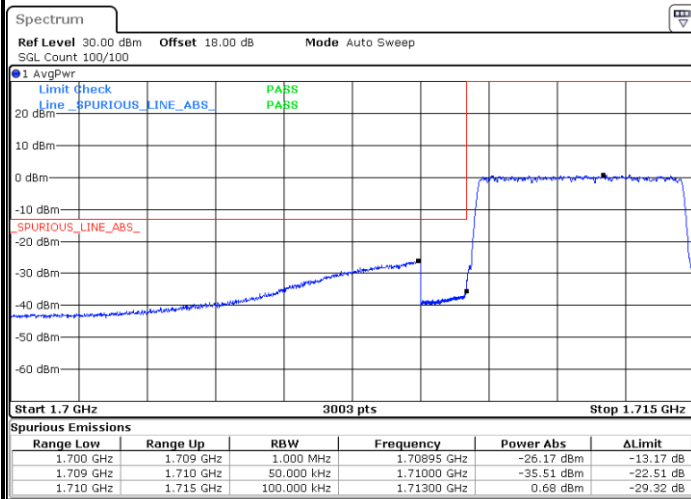
Date: 1.JAN.2007 05:28:33

Highest Band Edge / 1 RB



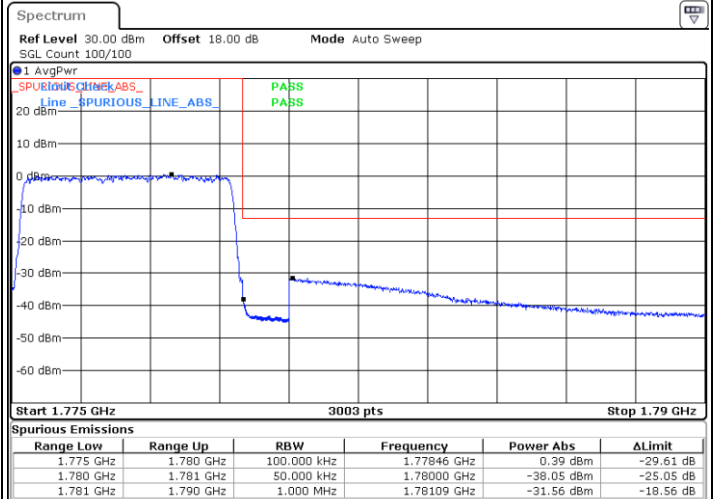
Date: 1.JAN.2007 05:36:54

Lowest Band Edge / Full RB



Date: 1.JAN.2007 05:32:37

Highest Band Edge / Full RB

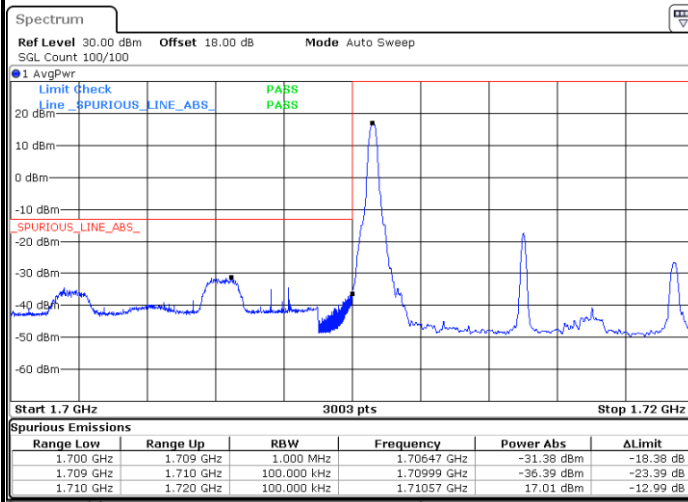


Date: 1.JAN.2007 05:33:14

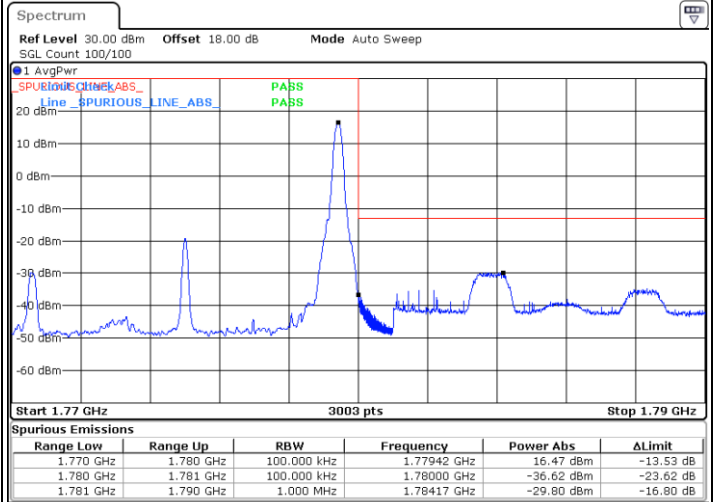


ULCA-13A-66A / SCC(66A) 10MHz / QPSK

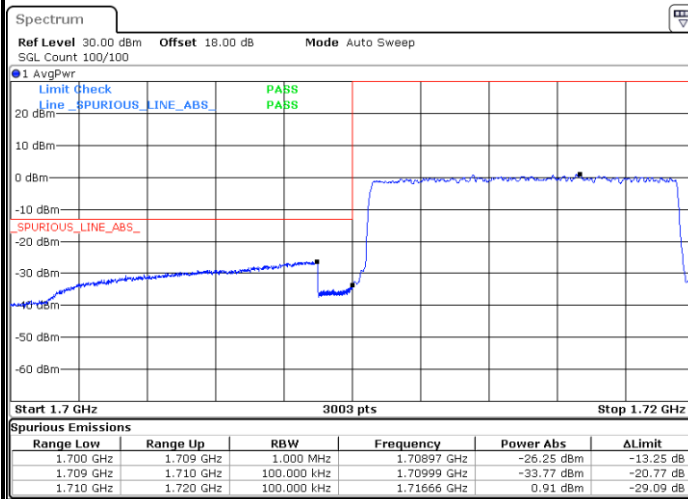
Lowest Band Edge / 1 RB



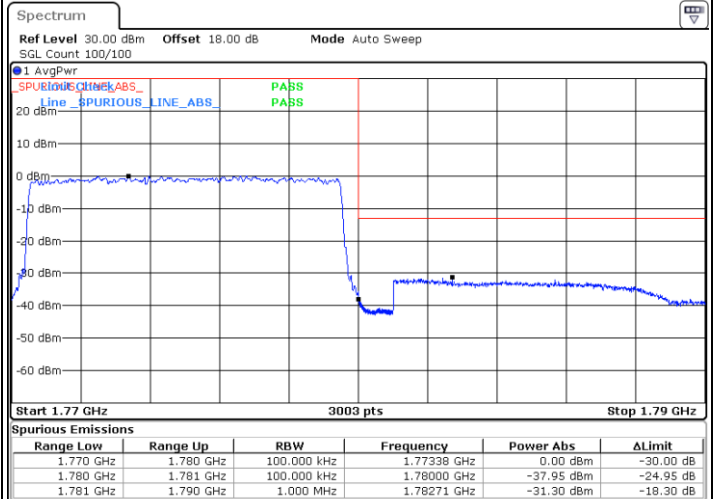
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



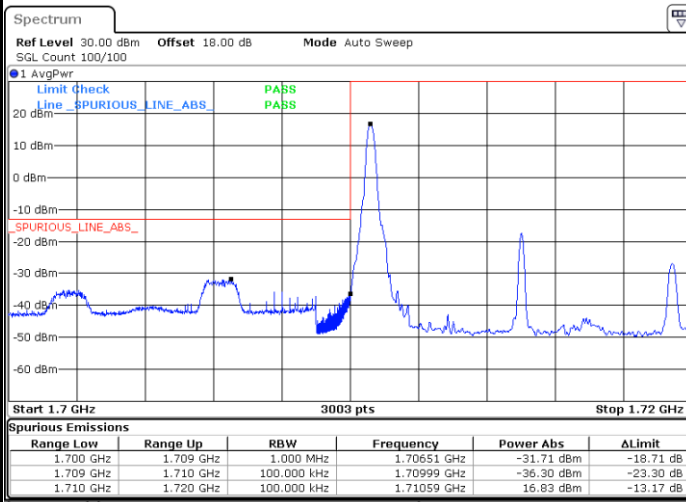
Highest Band Edge / Full RB



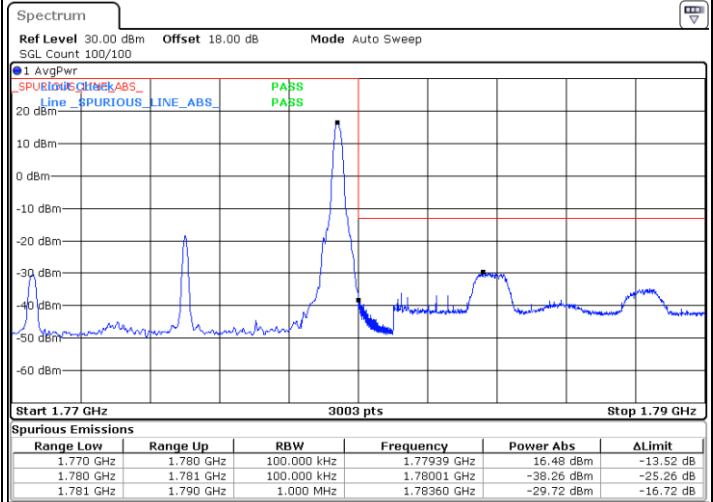


ULCA-13A-66A / SCC(66A) 10MHz / 16QAM

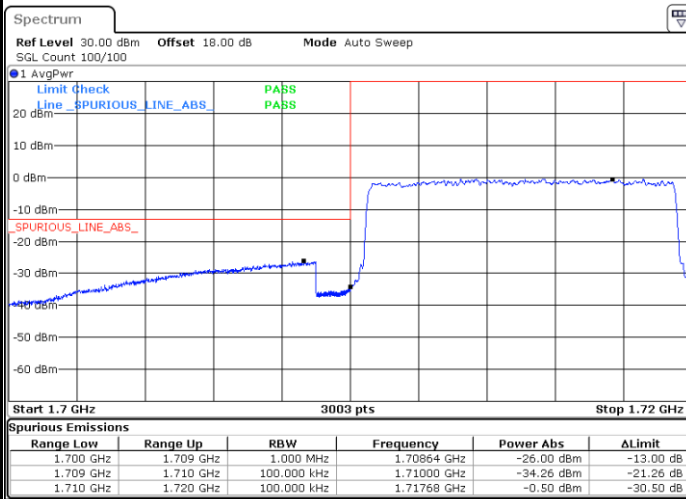
Lowest Band Edge / 1 RB



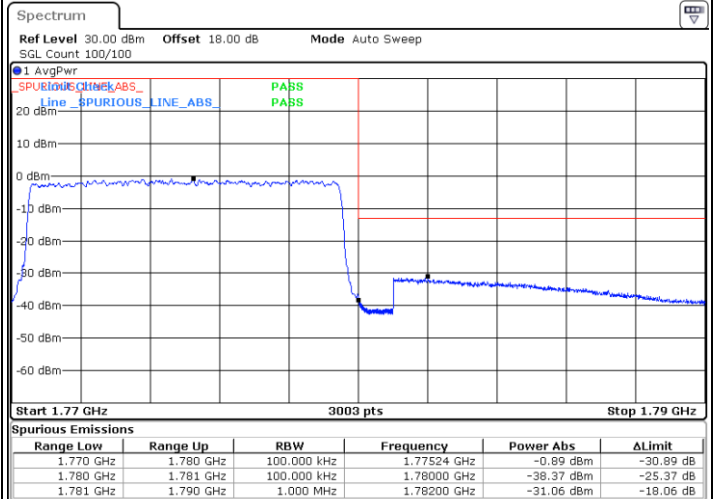
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



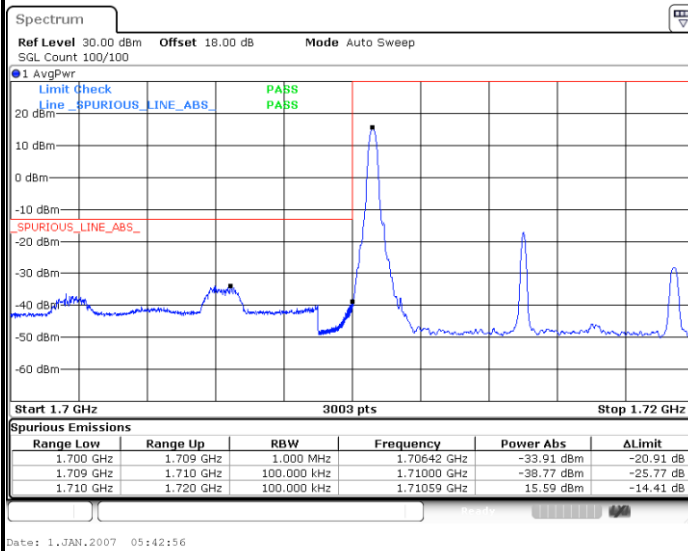
Highest Band Edge / Full RB



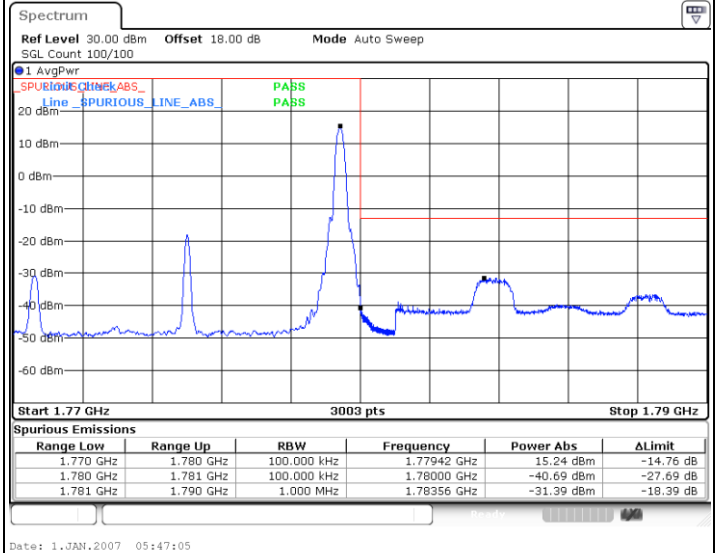


ULCA-13A-66A / SCC(66A) 10MHz / 64QAM

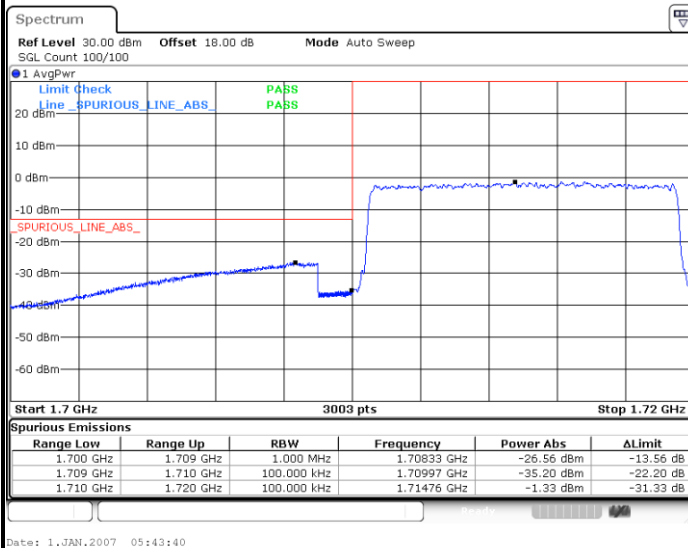
Lowest Band Edge / 1 RB



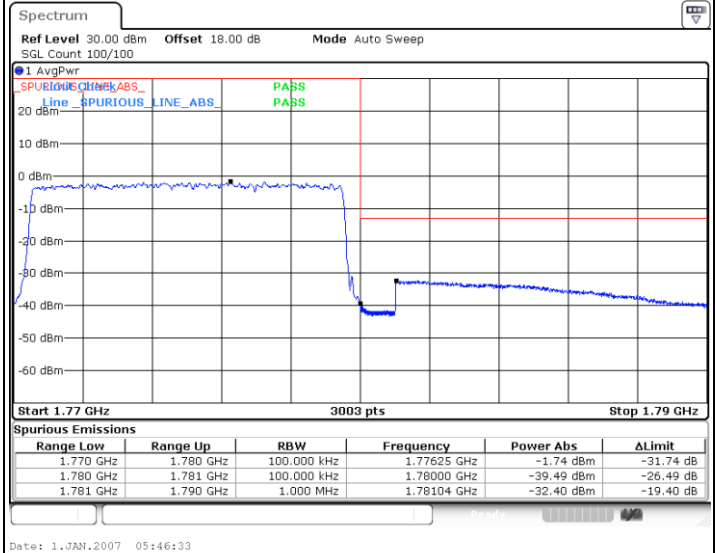
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



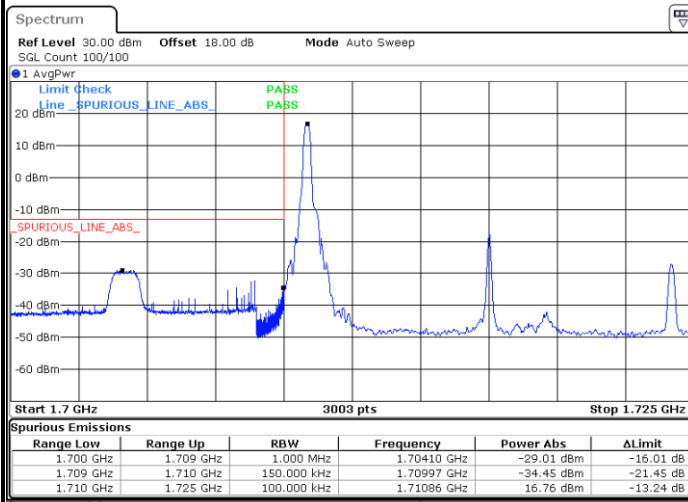
Highest Band Edge / Full RB



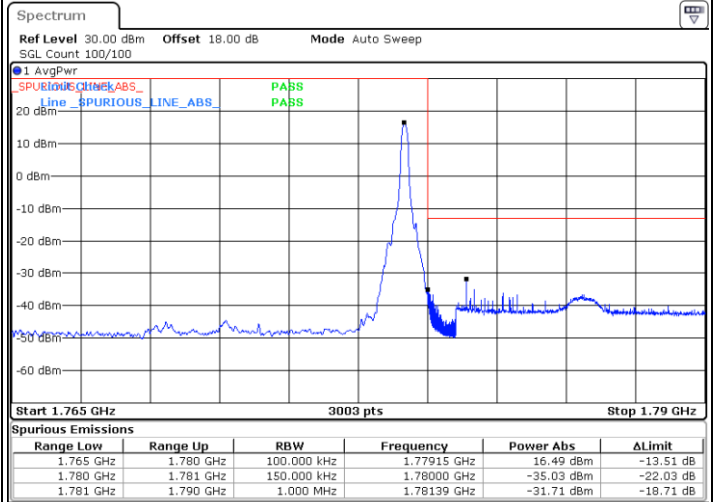


ULCA-13A-66A / SCC(66A) 15MHz / QPSK

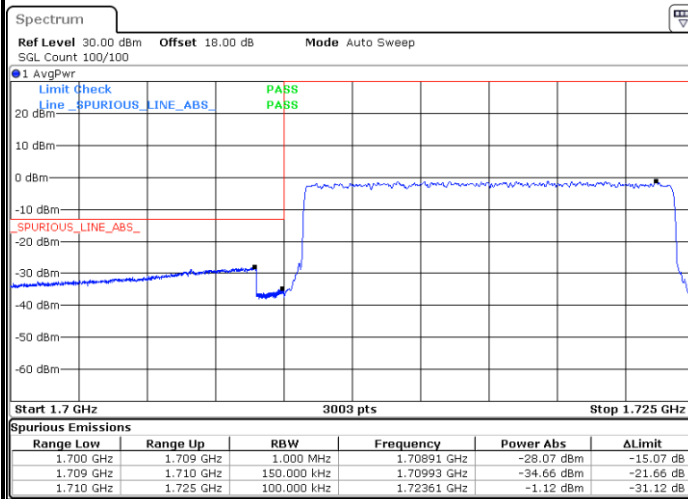
Lowest Band Edge / 1 RB



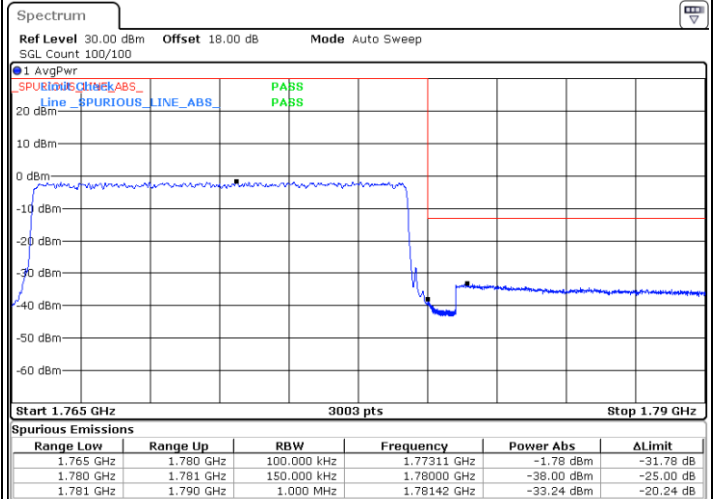
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



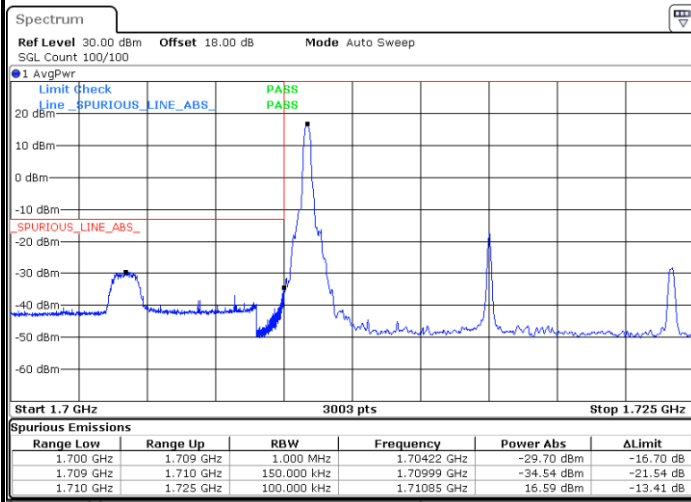
Highest Band Edge / Full RB



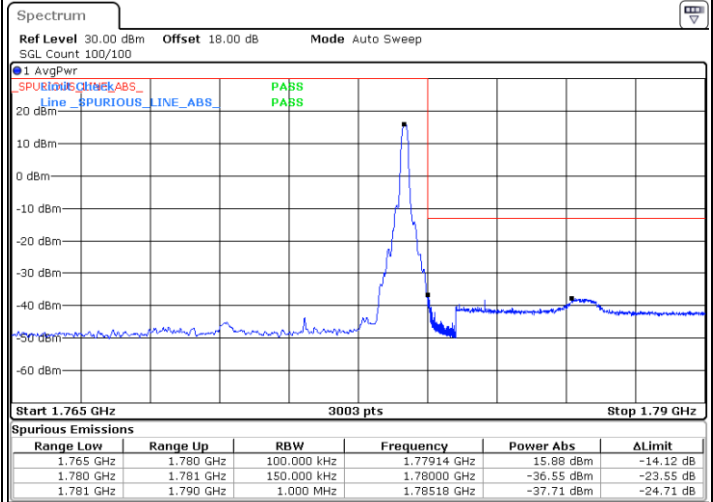


ULCA-13A-66A / SCC(66A) 15MHz / 16QAM

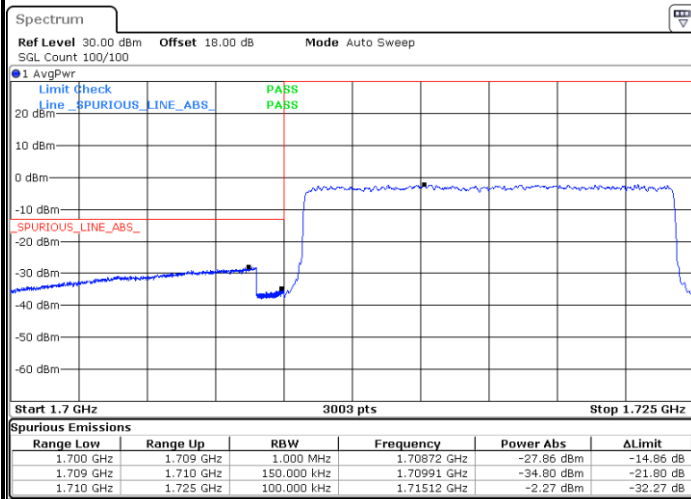
Lowest Band Edge / 1 RB



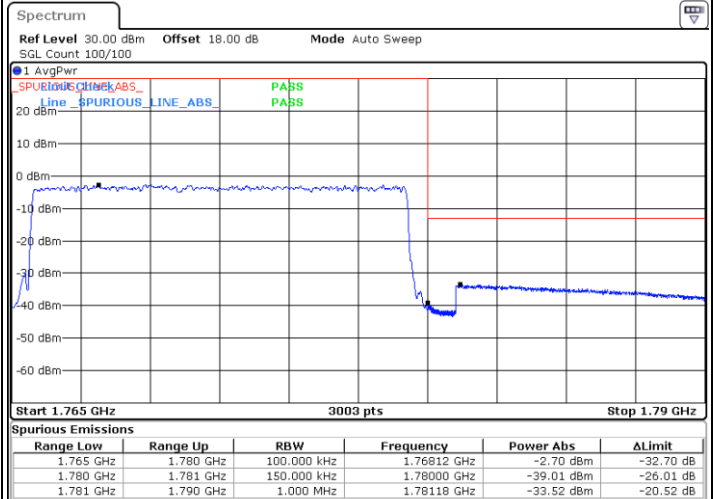
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



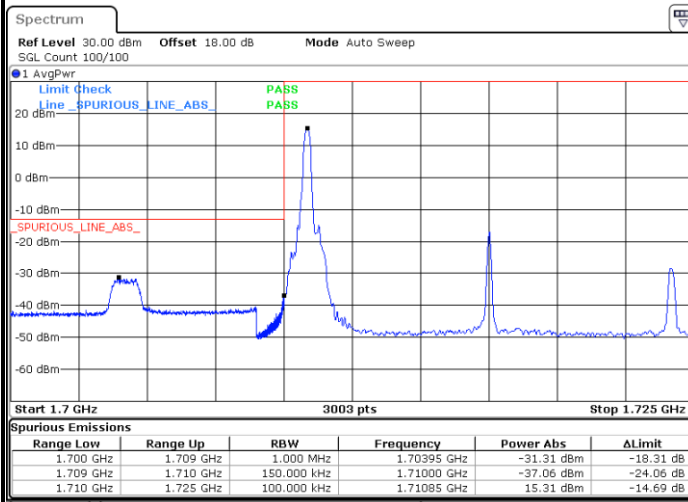
Highest Band Edge / Full RB



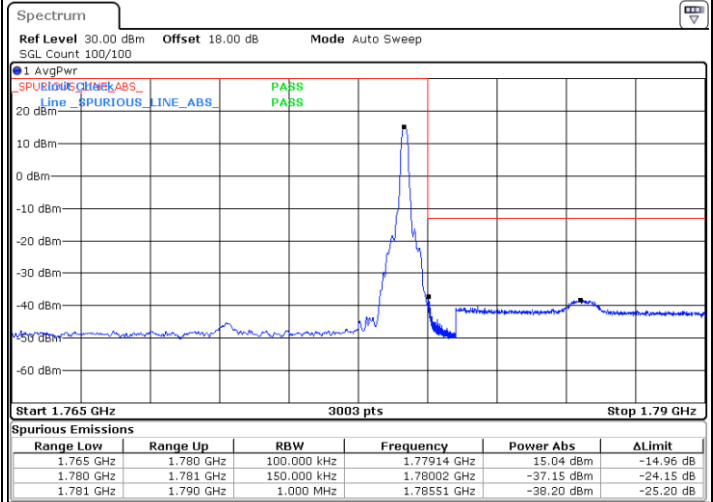


ULCA-13A-66A / SCC(66A) 15MHz / 64QAM

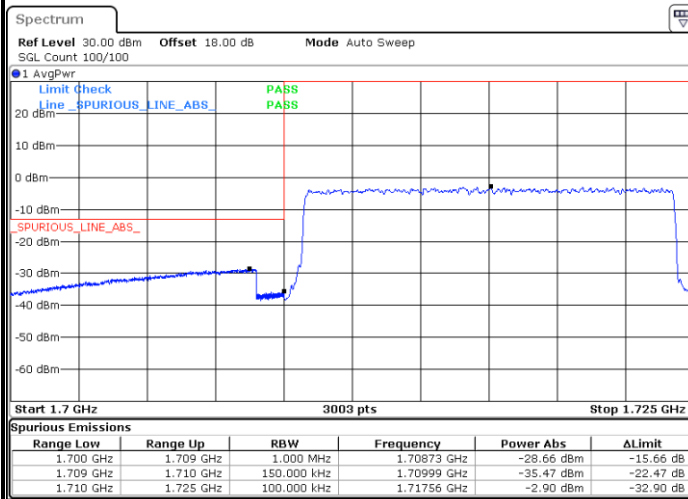
Lowest Band Edge / 1 RB



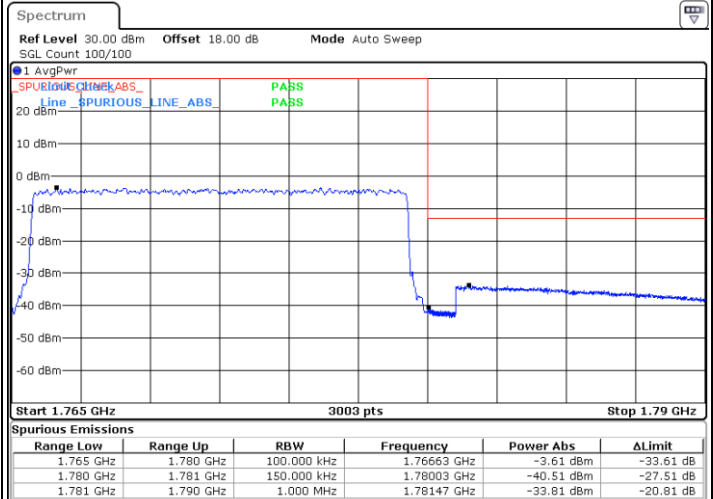
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



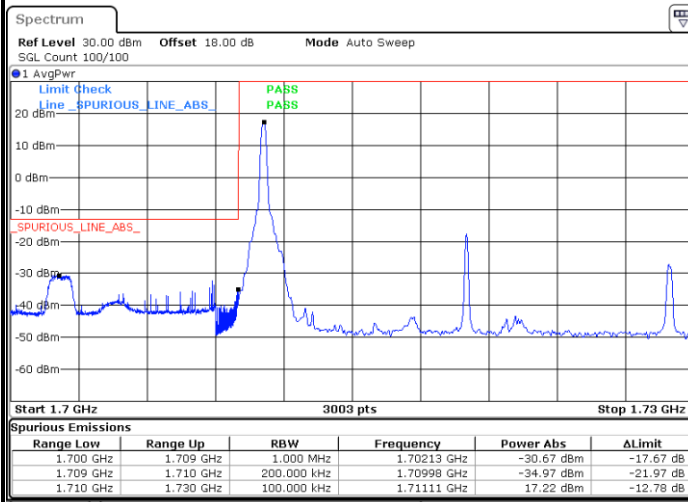
Highest Band Edge / Full RB



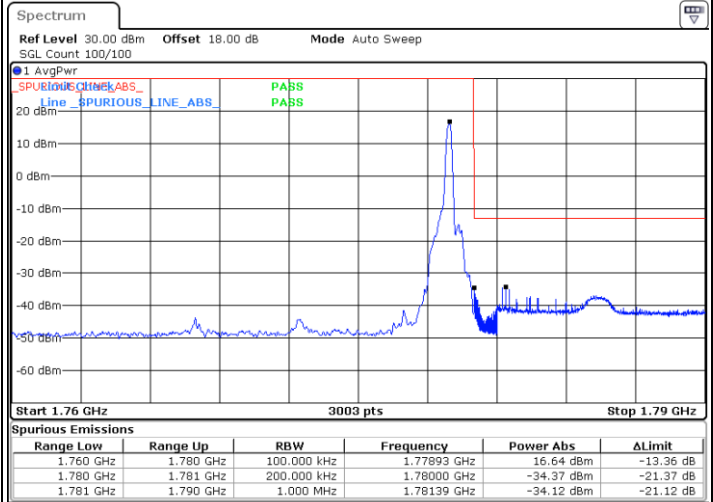


ULCA-13A-66A / SCC(66A) 20MHz / QPSK

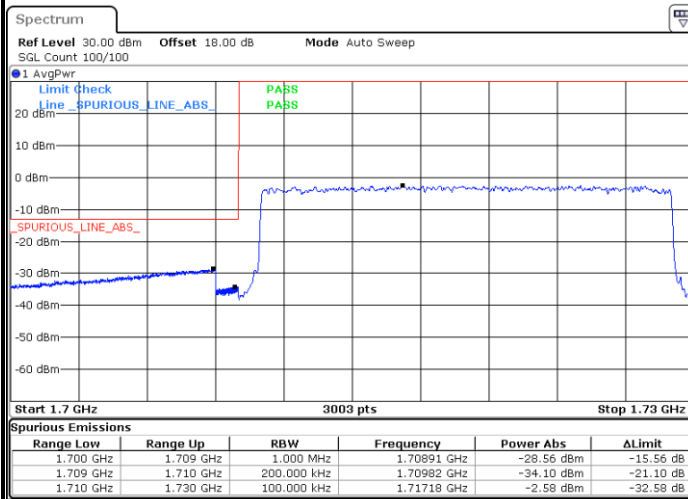
Lowest Band Edge / 1 RB



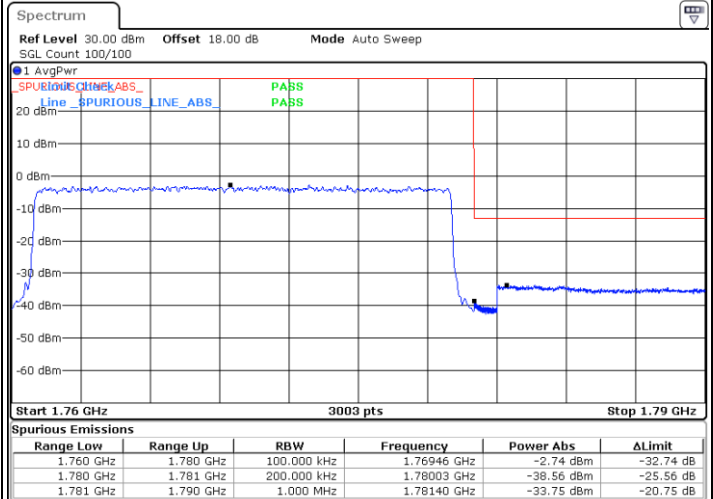
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



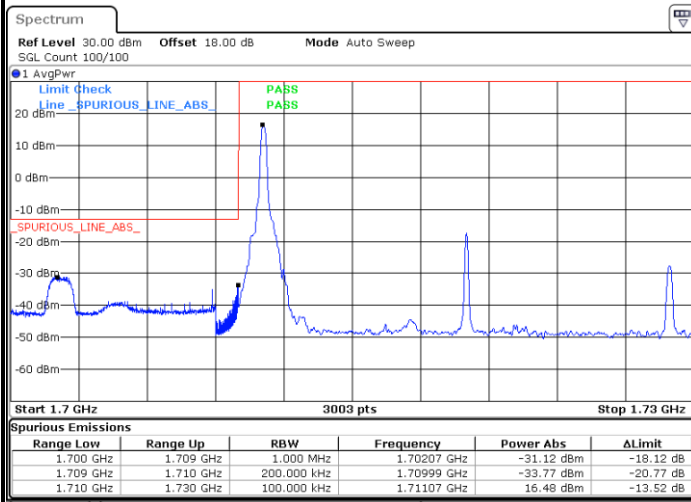
Highest Band Edge / Full RB





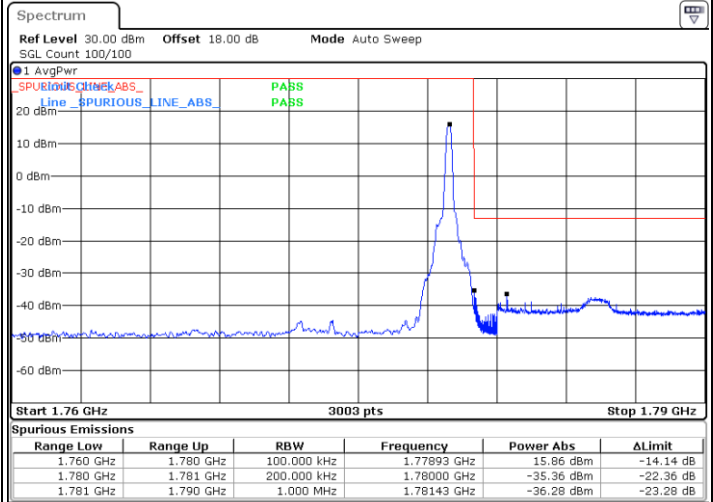
ULCA-13A-66A / SCC(66A) 20MHz / 16QAM

Lowest Band Edge / 1 RB



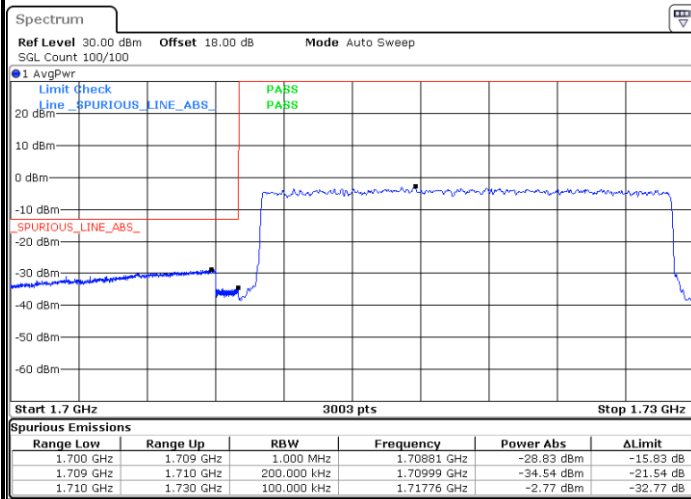
Date: 1.JAN.2007 05:54:48

Highest Band Edge / 1 RB



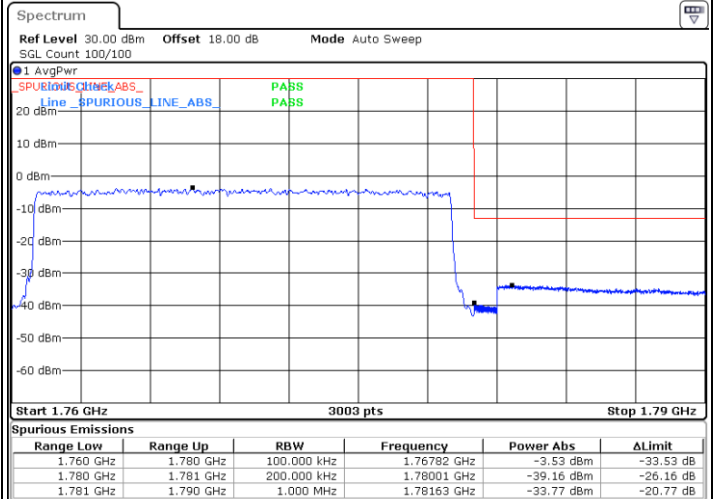
Date: 1.JAN.2007 05:57:48

Lowest Band Edge / Full RB



Date: 1.JAN.2007 05:55:46

Highest Band Edge / Full RB

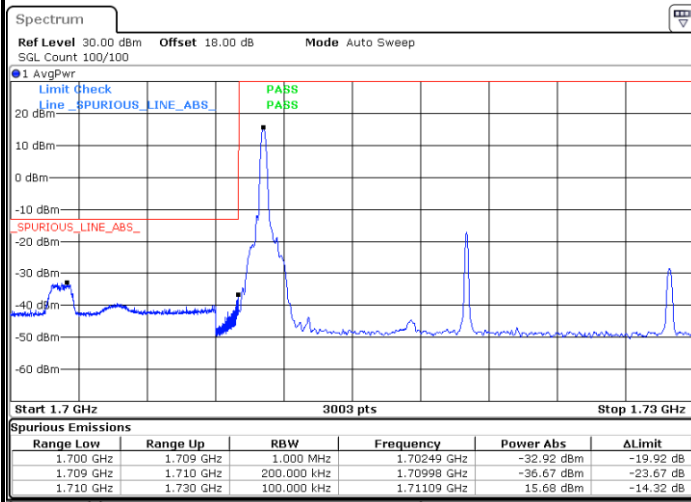


Date: 1.JAN.2007 05:56:49



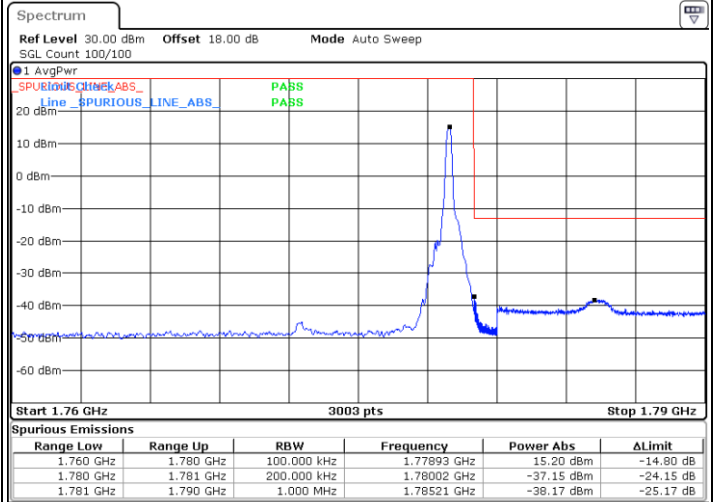
ULCA-13A-66A / SCC(66A) 20MHz / 64QAM

Lowest Band Edge / 1 RB



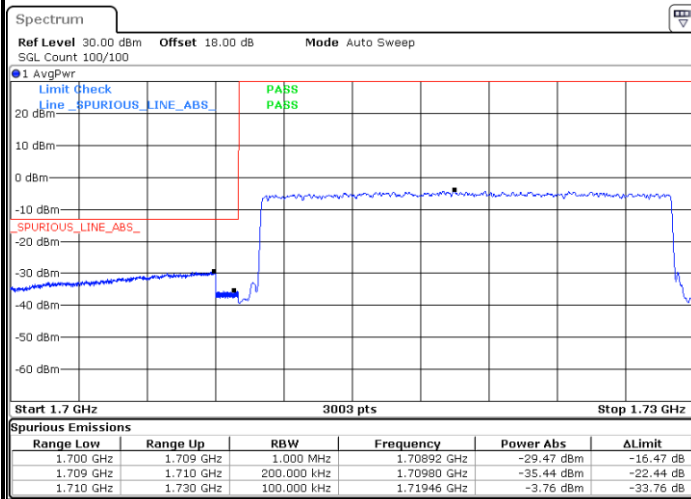
Date: 1.JAN.2007 05:55:07

Highest Band Edge / 1 RB



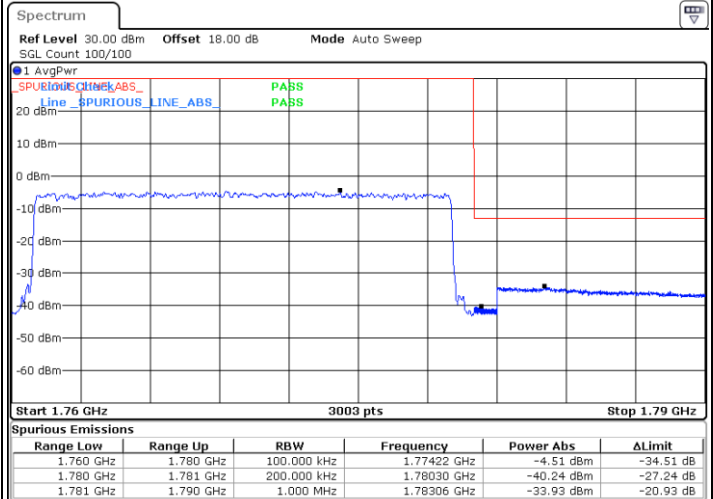
Date: 1.JAN.2007 05:57:33

Lowest Band Edge / Full RB



Date: 1.JAN.2007 05:55:29

Highest Band Edge / Full RB



Date: 1.JAN.2007 05:57:06



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Top Antenna

ULCA_2A-12A									
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)
LTE B2 BW 20MHz Lowest 1RB0,QPSK	3702.18	-59.56	-13	-46.56	-77.23	-66.32	5.82	12.58	H
	5553.27	-51.26	-13	-38.26	-72.80	-56.98	7.28	13.00	H
	7404.36	-54.18	-13	-41.18	-80.34	-57.34	8.32	11.48	H
	3702.18	-60.58	-13	-47.58	-77.58	-67.34	5.82	12.58	V
	5553.27	-52.57	-13	-39.57	-73.35	-58.29	7.28	13.00	V
	7404.36	-54.97	-13	-41.97	-80.42	-58.13	8.32	11.48	V
LTE B12 BW 10MHz Lowest 1RB25,QPSK	1399	-64.50	-13	-51.50	-74.14	-67.73	3.98	9.36	H
	2098.5	-62.73	-13	-49.73	-76.78	-66.28	4.85	10.55	H
	2798	-62.61	-13	-49.61	-76.73	-67.54	5.50	12.58	H
	1399	-65.13	-13	-52.13	-74.46	-68.36	3.98	9.36	V
	2098.5	-63.33	-13	-50.33	-77.05	-66.88	4.85	10.55	V
	2798	-62.99	-13	-49.99	-76.78	-67.92	5.50	12.58	V
LTE B2 BW 20MHz Middle 1RB0,QPSK	3742.18	-56.09	-13	-43.09	-73.88	-62.84	5.85	12.60	H
	5613.27	-43.42	-13	-30.42	-64.94	-49.22	7.30	13.10	H
	7484.36	-54.26	-13	-41.26	-79.92	-57.41	8.35	11.50	H
	3742.18	-60.17	-13	-47.17	-77.23	-66.92	5.85	12.60	V
	5613.27	-46.86	-13	-33.86	-67.73	-52.66	7.30	13.10	V
	7484.36	-55.18	-13	-42.18	-80.2	-58.33	8.35	11.50	V
LTE B12 BW 10MHz Middle 1RB25,QPSK	1406	-65.25	-13	-52.25	-75.02	-68.50	4.00	9.40	H
	2109	-62.30	-13	-49.30	-76.35	-65.87	4.88	10.60	H
	2812	-62.71	-13	-49.71	-76.88	-67.64	5.52	12.60	H
	1406	-64.87	-13	-51.87	-74.31	-68.12	4.00	9.40	V
	2109	-63.22	-13	-50.22	-76.94	-66.79	4.88	10.60	V
	2812	-62.67	-13	-49.67	-76.51	-67.60	5.52	12.60	V
LTE B2 BW 20MHz Highest 1RB0,QPSK	3782.12	-60.25	-13	-47.25	-78.21	-66.99	5.88	12.62	H
	5673.27	-50.22	-13	-37.22	-71.84	-56.03	7.32	13.13	H
	7564.36	-55.36	-13	-42.36	-80.41	-58.52	8.38	11.54	H
	3782.12	-61.36	-13	-48.36	-78.49	-68.10	5.88	12.62	V
	5673.27	-55.22	-13	-42.22	-75.83	-61.03	7.32	13.13	V
	7564.36	-55.72	-13	-42.72	-80.23	-58.88	8.38	11.54	V
LTE B12 BW 10MHz Highest 1RB25,QPSK	1413	-64.82	-13	-51.82	-74.59	-67.99	4.10	9.42	H
	2119.5	-62.30	-13	-49.30	-76.49	-65.88	4.90	10.63	H
	2826	-62.37	-13	-49.37	-76.55	-67.29	5.55	12.62	H
	1413	-65.15	-13	-52.15	-74.59	-68.32	4.10	9.42	V
	2119.5	-62.81	-13	-49.81	-76.69	-66.39	4.90	10.63	V
	2826	-62.70	-13	-49.70	-76.55	-67.62	5.55	12.62	V

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



ULCA_2A-13A									
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)
LTE B2 BW 20MHz Lowest 1RB0,QPSK	3702.18	-60.79	-13	-47.79	-78.46	-67.55	5.82	12.58	H
	5553.27	-48.38	-13	-35.38	-69.92	-54.10	7.28	13.00	H
	7404.36	-55.05	-13	-42.05	-81.21	-58.21	8.32	11.48	H
	3702.18	-60.68	-13	-47.68	-77.68	-67.44	5.82	12.58	V
	5553.27	-56.79	-13	-43.79	-77.57	-62.51	7.28	13.00	V
	7404.36	-55.05	-13	-42.05	-80.5	-58.21	8.32	11.48	V
LTE B13 BW 10MHz Lowest 1RB0,QPSK	1555	-66.29	-13	-53.29	-75.43	-69.52	3.98	9.36	H
	2332.5	-63.70	-13	-50.70	-77.66	-67.25	4.85	10.55	H
	3110	-62.43	-13	-49.43	-77.78	-67.36	5.50	12.58	H
	1555	-66.64	-13	-53.64	-75.29	-69.87	3.98	9.36	V
	2332.5	-63.79	-13	-50.79	-77.51	-67.34	4.85	10.55	V
	3110	-63.06	-13	-50.06	-78.05	-67.99	5.50	12.58	V
LTE B2 BW 20MHz Middle 1RB0,QPSK	3742.18	-57.77	-13	-44.77	-75.56	-64.52	5.85	12.60	H
	5613.27	-50.29	-13	-37.29	-71.81	-56.09	7.30	13.10	H
	7484.36	-55.37	-13	-42.37	-81.03	-58.52	8.35	11.50	H
	3742.18	-58.63	-13	-45.63	-75.69	-65.38	5.85	12.60	V
	5613.27	-47.16	-13	-34.16	-68.03	-52.96	7.30	13.10	V
	7484.36	-55.91	-13	-42.91	-80.93	-59.06	8.35	11.50	V
LTE B13 BW 10MHz Middle 1RB0,QPSK	1555	-66.47	-13	-53.47	-75.61	-69.72	4.00	9.40	H
	2332.5	-63.66	-13	-50.66	-77.62	-67.23	4.88	10.60	H
	3110	-62.29	-13	-49.29	-77.64	-67.22	5.52	12.60	H
	1555	-66.87	-13	-53.87	-75.52	-70.12	4.00	9.40	V
	2332.5	-64.24	-13	-51.24	-77.96	-67.81	4.88	10.60	V
	3110	-63.02	-13	-50.02	-78.01	-67.95	5.52	12.60	V
LTE B2 BW 20MHz Highest 1RB0,QPSK	3782.18	-61.11	-13	-48.11	-48.11	-67.85	5.88	12.62	H
	5673.27	-53.81	-13	-40.81	-40.81	-59.62	7.32	13.13	H
	7564.36	-56.12	-13	-43.12	-43.12	-59.28	8.38	11.54	H
	3782.18	-61.19	-13	-48.19	-48.19	-67.93	5.88	12.62	V
	5673.27	-59.21	-13	-46.21	-46.21	-65.02	7.32	13.13	V
	7564.36	-56.44	-13	-43.44	-43.44	-59.60	8.38	11.54	V
LTE B13 BW 10MHz Highest 1RB0,QPSK	1555	-66.29	-13	-53.29	-75.43	-69.46	4.10	9.42	H
	2332.5	-63.44	-13	-50.44	-77.40	-67.02	4.90	10.63	H
	3110	-62.40	-13	-49.40	-77.75	-67.32	5.55	12.62	H
	1555	-66.76	-13	-53.76	-75.41	-69.93	4.10	9.42	V
	2332.5	-63.59	-13	-50.59	-77.31	-67.17	4.90	10.63	V
	3110	-62.76	-13	-49.76	-77.75	-67.68	5.55	12.62	V

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



ULCA_4A-12A									
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)
LTE B4 BW 20MHz Lowest 1RB0,QPSK	3422.18	-62.66	-13	-49.66	-77.50	-69.42	5.82	12.58	H
	5133.27	-54.31	-13	-41.31	-76.02	-60.03	7.28	13.00	H
	6844.36	-56.74	-13	-43.74	-80.65	-59.90	8.32	11.48	H
	3422.18	-64.31	-13	-51.31	-78.65	-71.07	5.82	12.58	V
	5133.27	-56.97	-13	-43.97	-77.9	-62.69	7.28	13.00	V
	6844.36	-57.75	-13	-44.75	-80.78	-60.91	8.32	11.48	V
LTE B12 BW 10MHz Lowest 1RB25,QPSK	1399	-65.04	-13	-52.04	-74.68	-68.27	3.98	9.36	H
	2098.5	-63.41	-13	-50.41	-77.46	-66.96	4.85	10.55	H
	2798	-62.97	-13	-49.97	-77.09	-67.90	5.50	12.58	H
	1399	-65.45	-13	-52.45	-74.78	-68.68	3.98	9.36	V
	2098.5	-63.33	-13	-50.33	-77.05	-66.88	4.85	10.55	V
	2798	-63.49	-13	-50.49	-77.28	-68.42	5.50	12.58	V
LTE B4 BW 20MHz Middle 1RB0,QPSK	3447.18	-63.79	-13	-50.79	-79.08	-70.54	5.85	12.60	H
	5170.77	-49.55	-13	-36.55	-71.31	-55.35	7.30	13.10	H
	6894.36	-56.93	-13	-43.93	-80.72	-60.08	8.35	11.50	H
	3447.18	-64.28	-13	-51.28	-79.08	-71.03	5.85	12.60	V
	5170.77	-56.95	-13	-43.95	-77.78	-62.75	7.30	13.10	V
	6894.36	-57.60	-13	-44.60	-80.8	-60.75	8.35	11.50	V
LTE B12 BW 10MHz Middle 1RB25,QPSK	1406	-65.18	-13	-52.18	-74.95	-68.43	4.00	9.40	H
	2109	-63.28	-13	-50.28	-77.33	-66.85	4.88	10.60	H
	2812	-63.29	-13	-50.29	-77.46	-68.22	5.52	12.60	H
	1406	-65.27	-13	-52.27	-74.71	-68.52	4.00	9.40	V
	2109	-63.45	-13	-50.45	-77.17	-67.02	4.88	10.60	V
	2812	-63.43	-13	-50.43	-77.27	-68.36	5.52	12.60	V
LTE B4 BW 20MHz Highest 1RB0,QPSK	3472.18	-62.09	-13	-49.09	-77.61	-68.83	5.88	12.62	H
	5208.27	-54.18	-13	-41.18	-75.57	-59.99	7.32	13.13	H
	6944.36	-57.61	-13	-44.61	-81.26	-60.77	8.38	11.54	H
	3472.18	-63.59	-13	-50.59	-78.62	-70.33	5.88	12.62	V
	5208.27	-59.68	-13	-46.68	-80	-65.49	7.32	13.13	V
	6944.36	-58.28	-13	-45.28	-81.65	-61.44	8.38	11.54	V
LTE B12 BW 10MHz Highest 1RB25,QPSK	1413	-65.30	-13	-52.30	-75.07	-68.47	4.10	9.42	H
	2119.5	-63.19	-13	-50.19	-77.38	-66.77	4.90	10.63	H
	2826	-62.96	-13	-49.96	-77.14	-67.88	5.55	12.62	H
	1413	-65.45	-13	-52.45	-74.89	-68.62	4.10	9.42	V
	2119.5	-63.59	-13	-50.59	-77.47	-67.17	4.90	10.63	V
	2826	-63.36	-13	-50.36	-77.21	-68.28	5.55	12.62	V

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