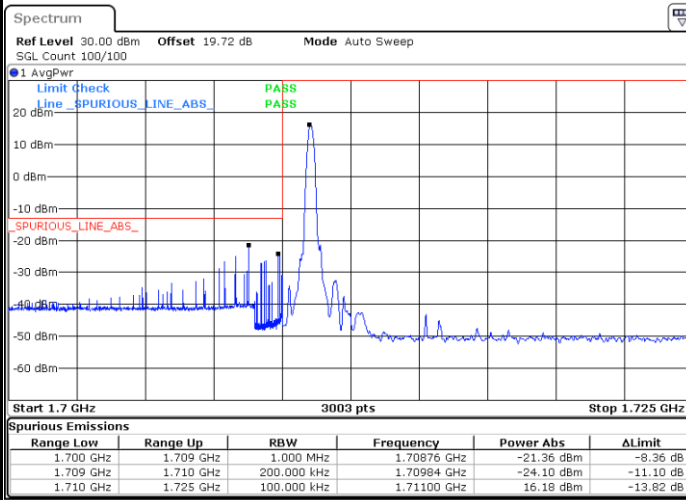




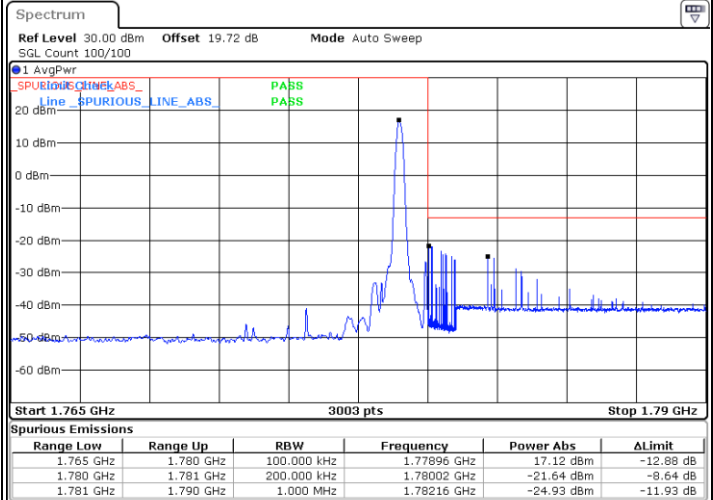
LTE Band 66 / 15MHz / QPSK

Lowest Band Edge / 1RB



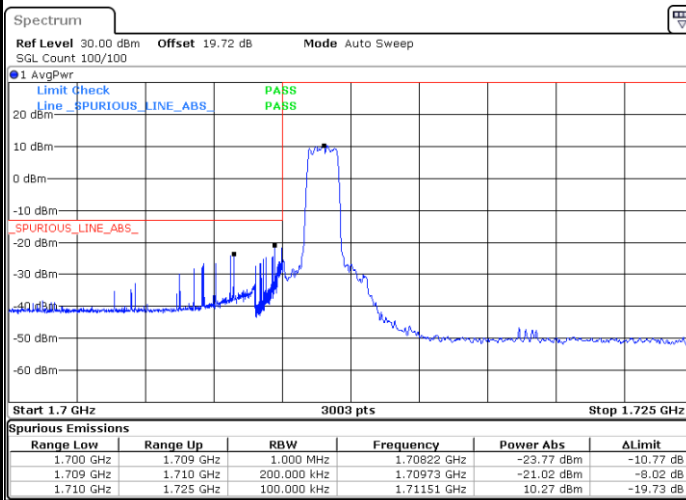
Date: 8 SEP 2024 19:15:53

Highest Band Edge / 1RB



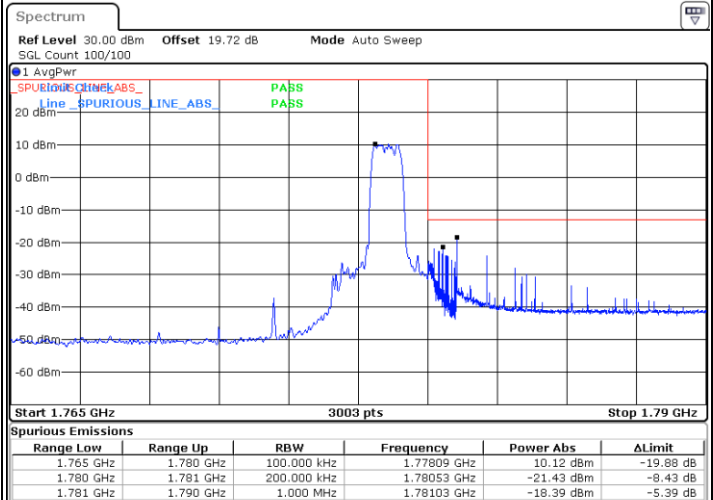
Date: 8 SEP 2024 19:20:48

Lowest Band Edge / Full RB



Date: 8 SEP 2024 19:15:10

Highest Band Edge / Full RB

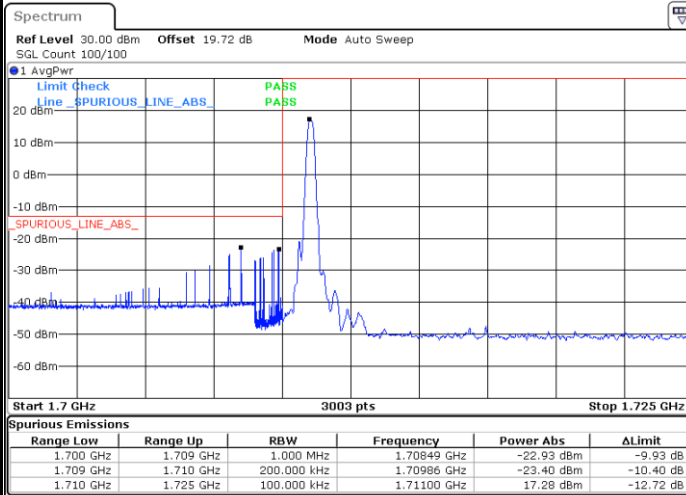


Date: 8 SEP 2024 19:21:06

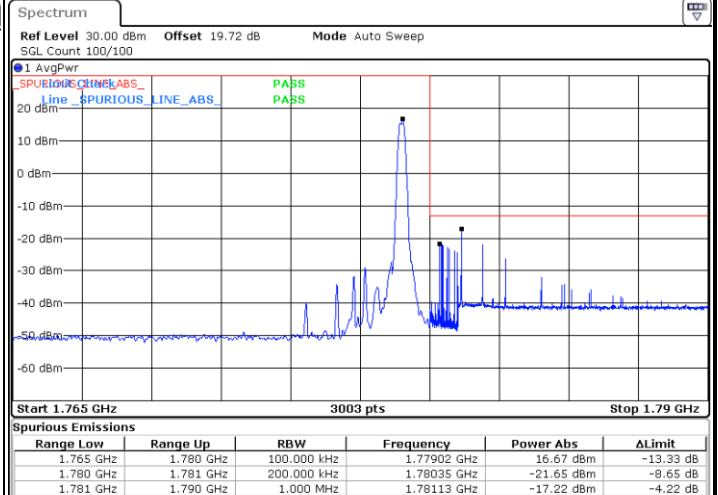


LTE Band 66 / 15MHz / 16QAM

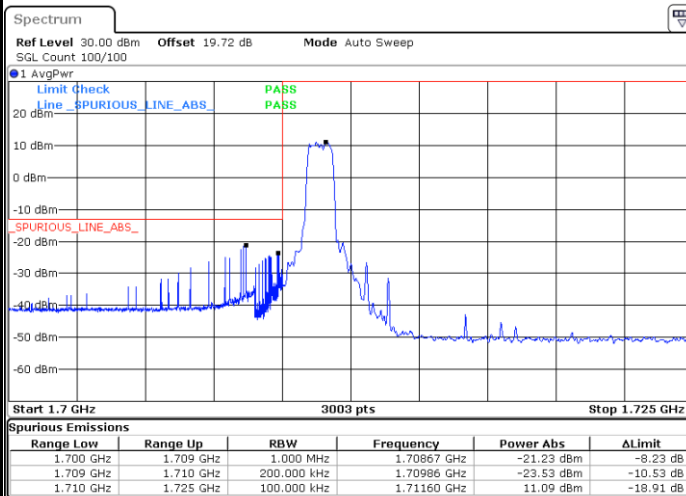
Lowest Band Edge / 1 RB



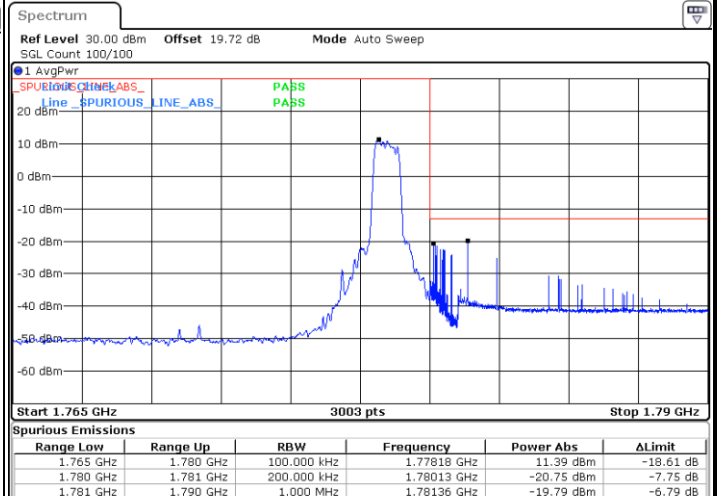
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



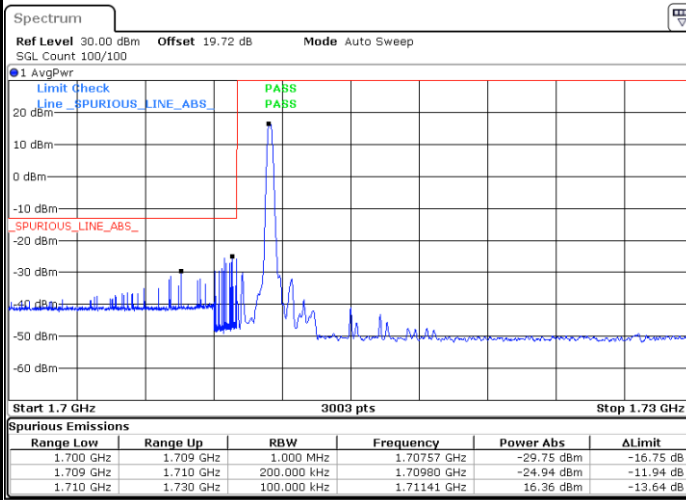
Highest Band Edge / Full RB



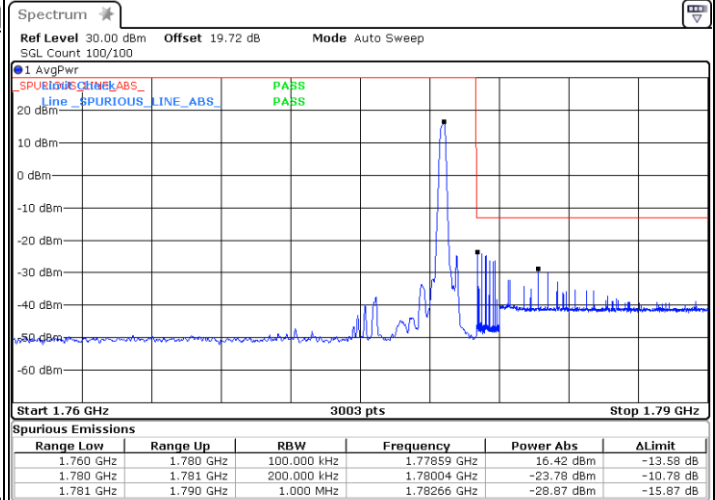


LTE Band 66 / 20MHz / QPSK

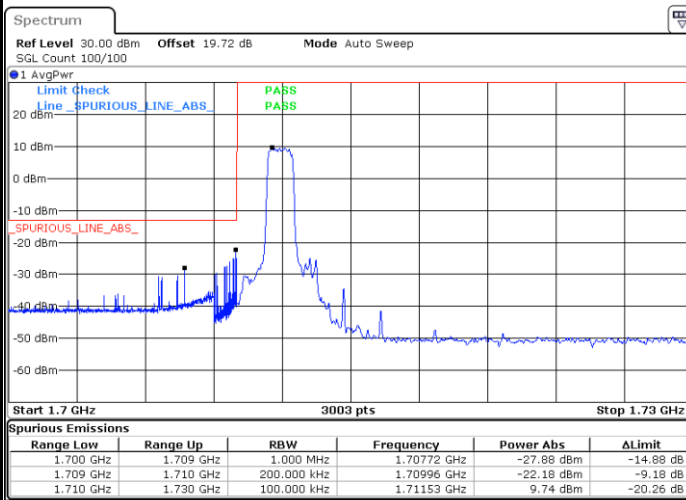
Lowest Band Edge / 1RB



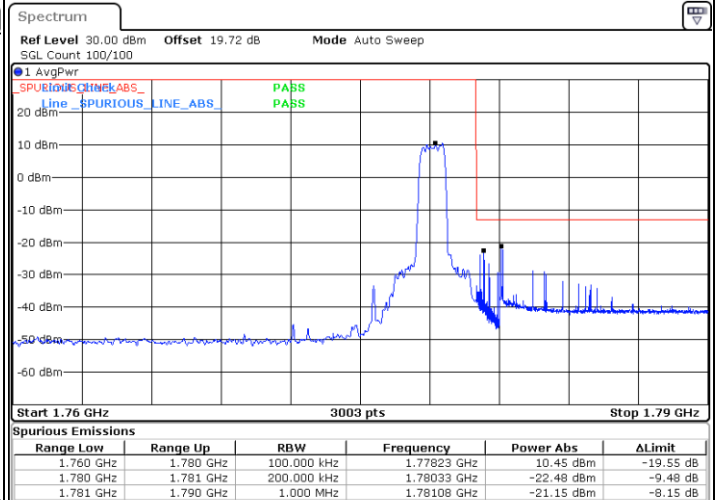
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



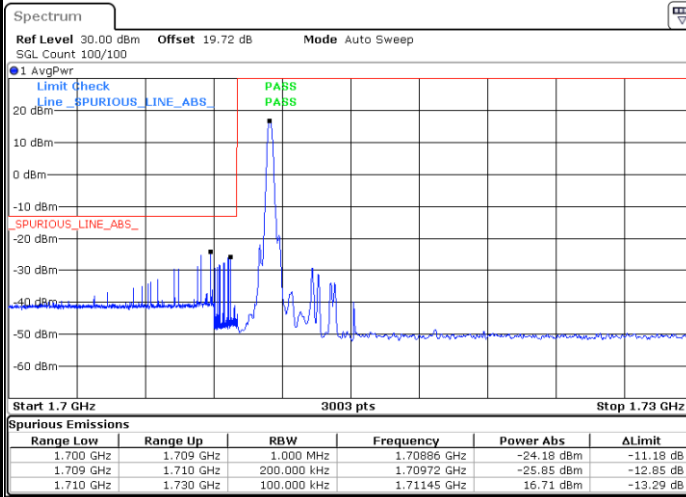
Highest Band Edge / Full RB



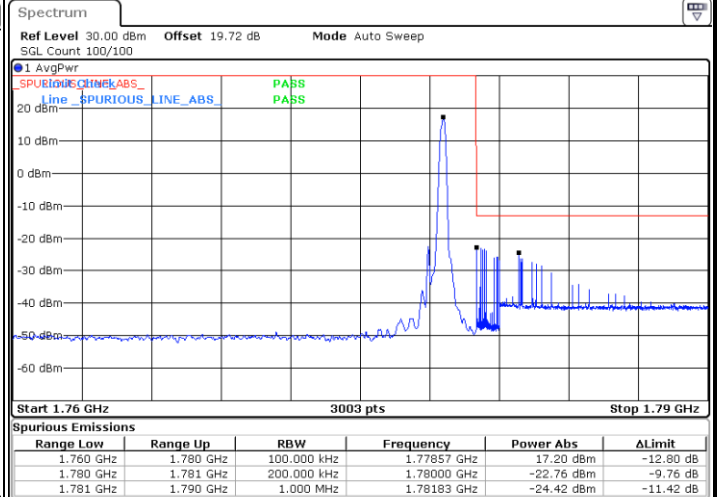


LTE Band 66 / 20MHz / 16QAM

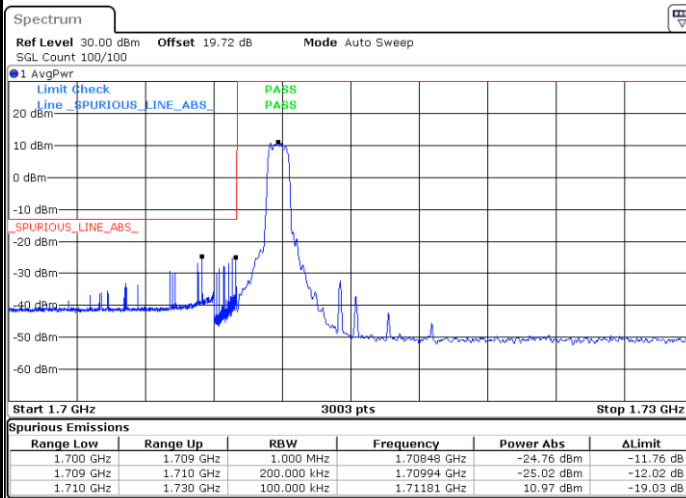
Lowest Band Edge / 1 RB



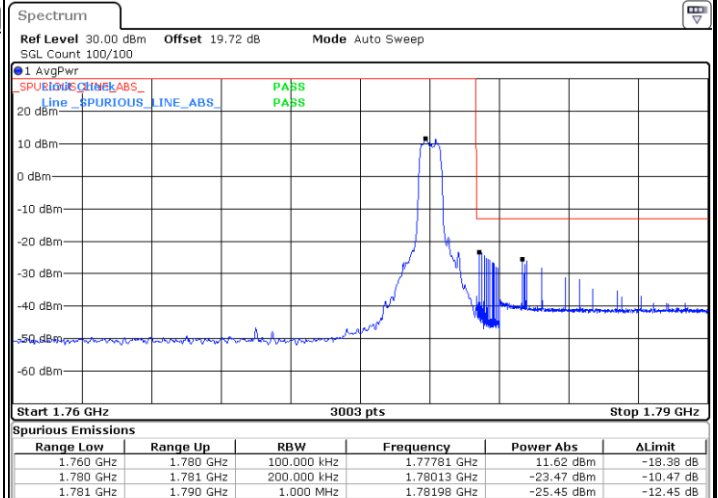
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

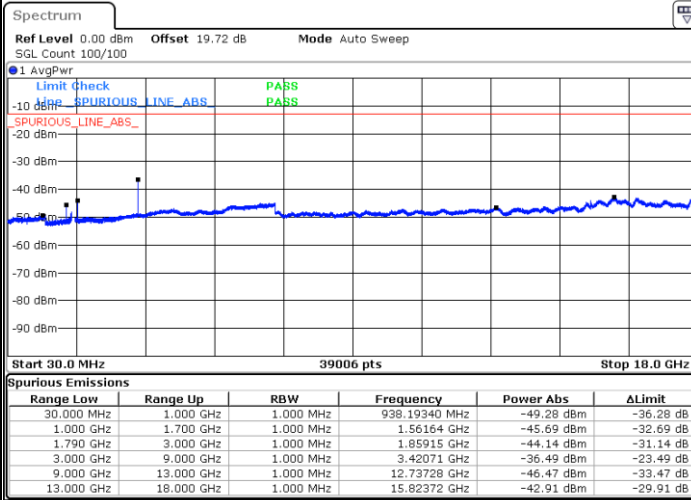




Conducted Spurious Emission

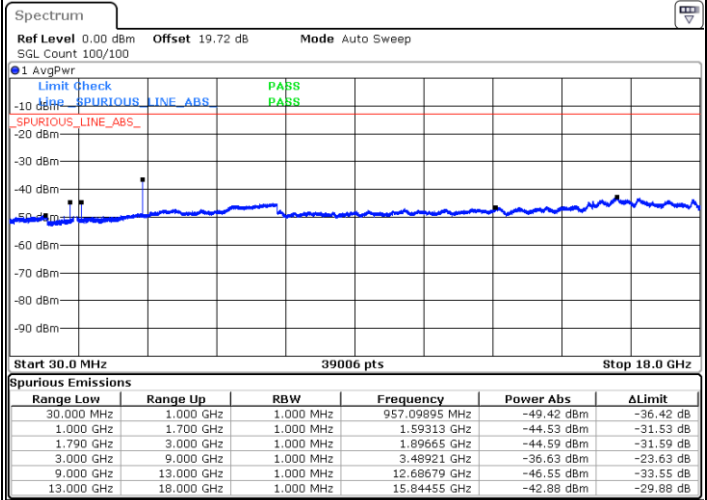
LTE Band 66 / 1.4MHz

Lowest Channel / QPSK



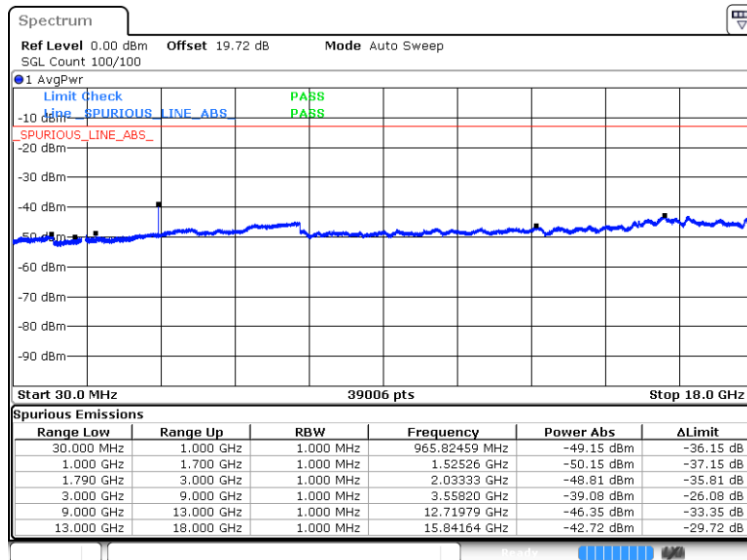
Date: 8 SEP. 2024 17:53:10

Middle Channel / QPSK



Date: 8 SEP. 2024 17:54:45

Highest Channel / QPSK

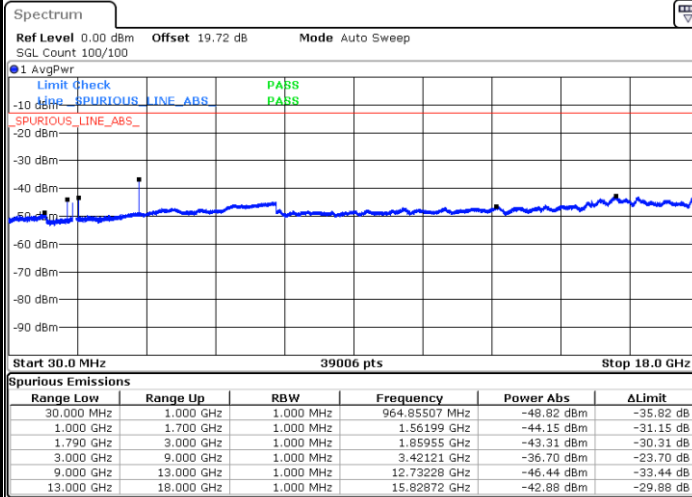


Date: 8 SEP. 2024 17:55:35



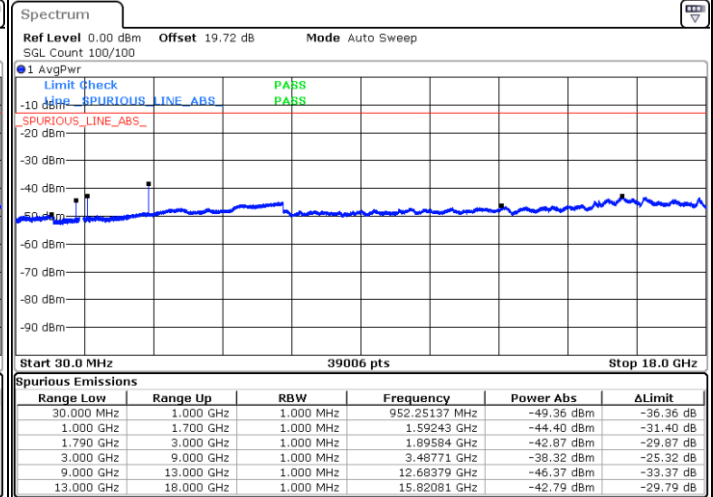
LTE Band 66 / 3MHz

Lowest Channel / QPSK



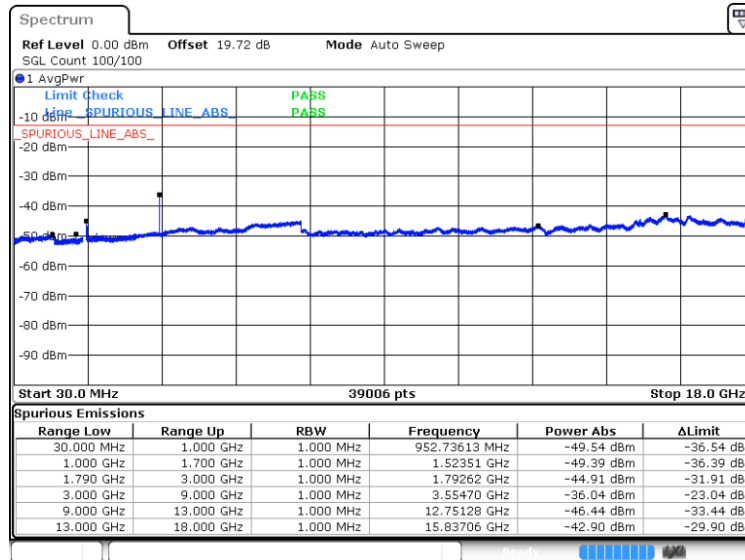
Date: 8 SEP. 2024 18:00:15

Middle Channel / QPSK



Date: 8 SEP. 2024 18:40:03

Highest Channel / QPSK

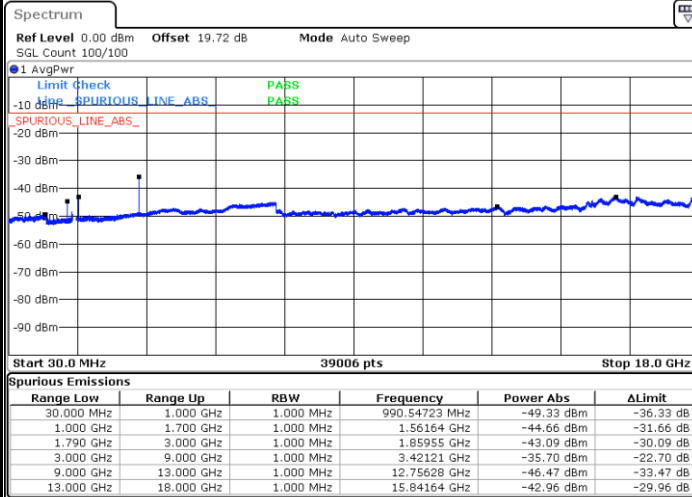


Date: 8 SEP. 2024 18:44:16



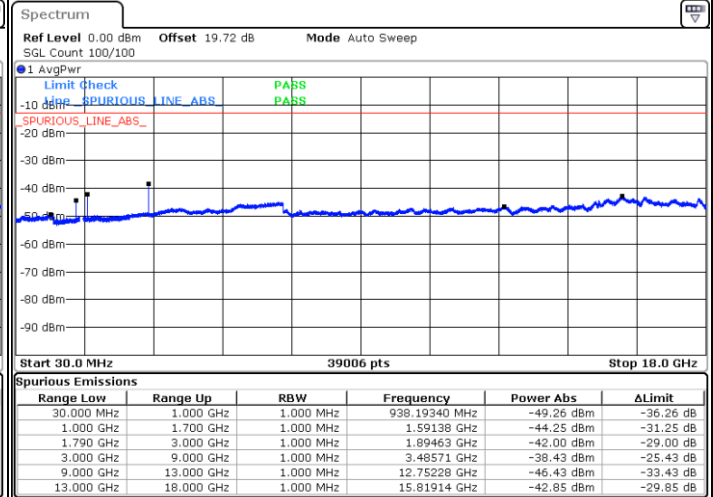
LTE Band 66 / 5MHz

Lowest Channel / QPSK



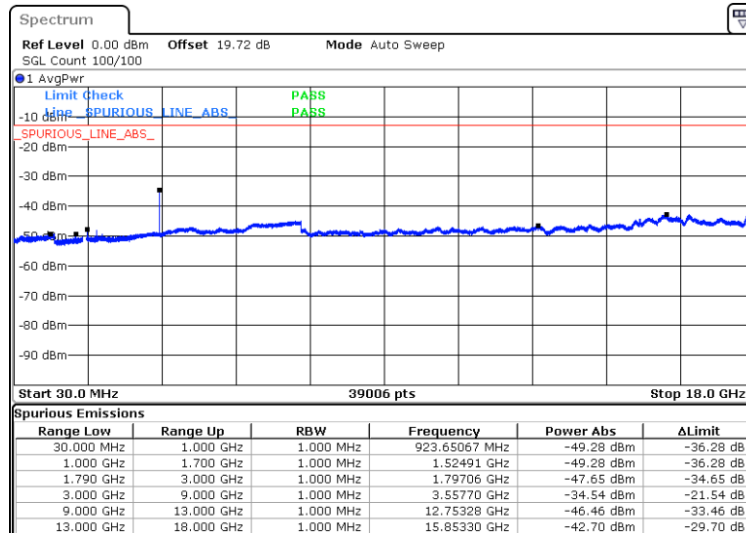
Date: 8 SEP. 2024 18:52:15

Middle Channel / QPSK



Date: 8 SEP. 2024 18:53:52

Highest Channel / QPSK

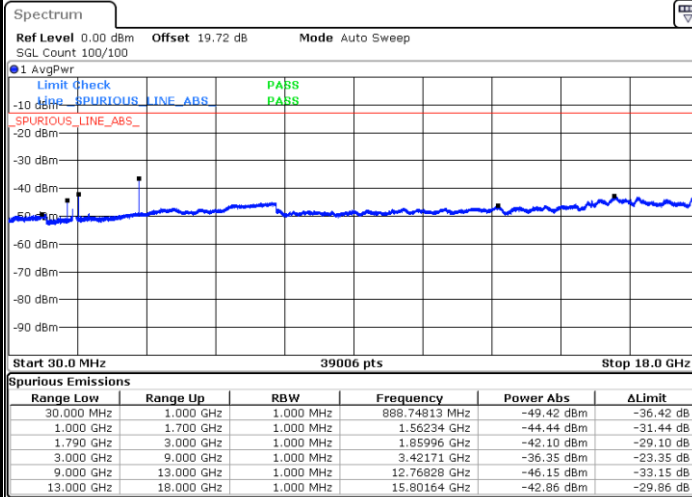


Date: 8 SEP. 2024 18:55:11



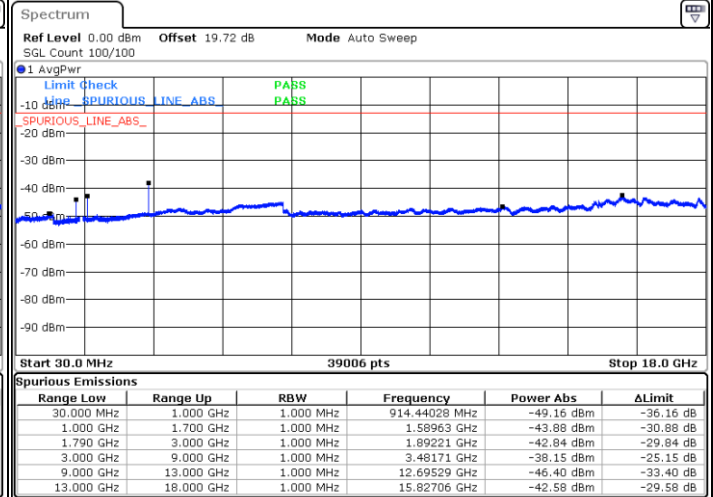
LTE Band 66 / 10MHz

Lowest Channel / QPSK



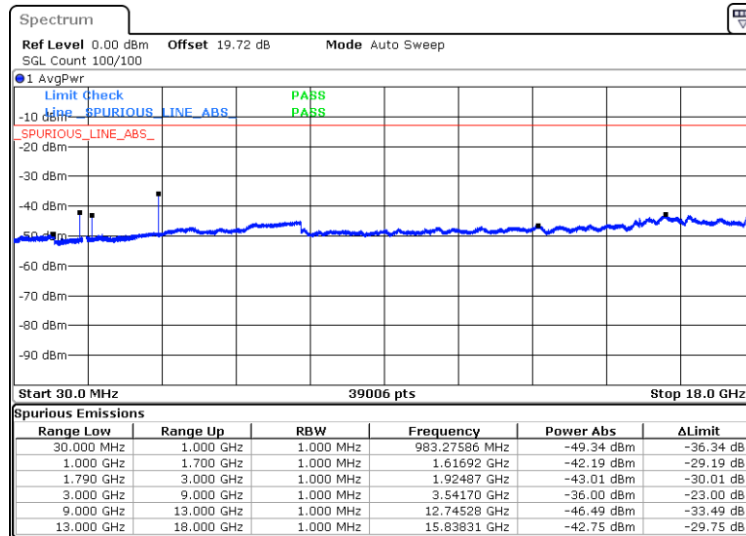
Date: 8 SEP 2024 18:58:08

Middle Channel / QPSK



Date: 8 SEP 2024 19:00:13

Highest Channel / QPSK

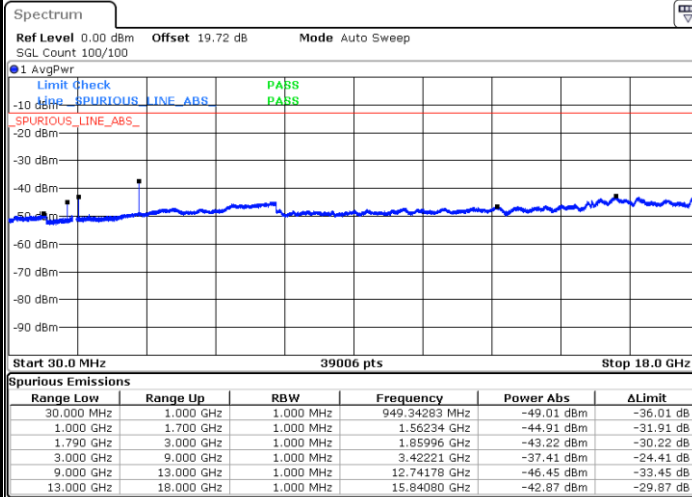


Date: 8 SEP 2024 19:01:53



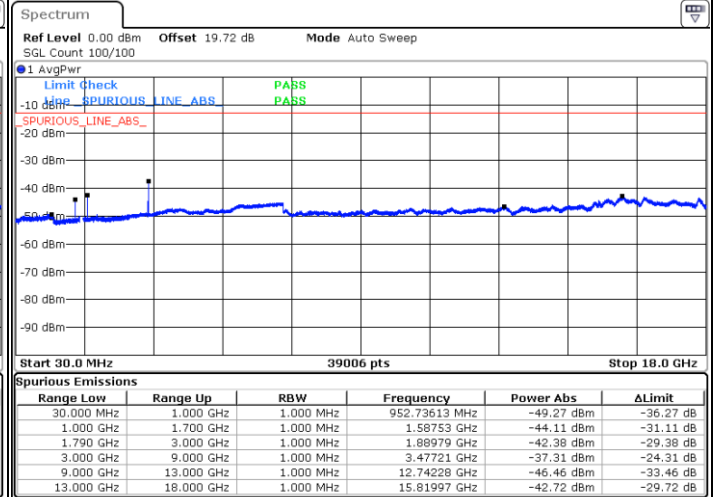
LTE Band 66 / 15MHz

Lowest Channel / QPSK



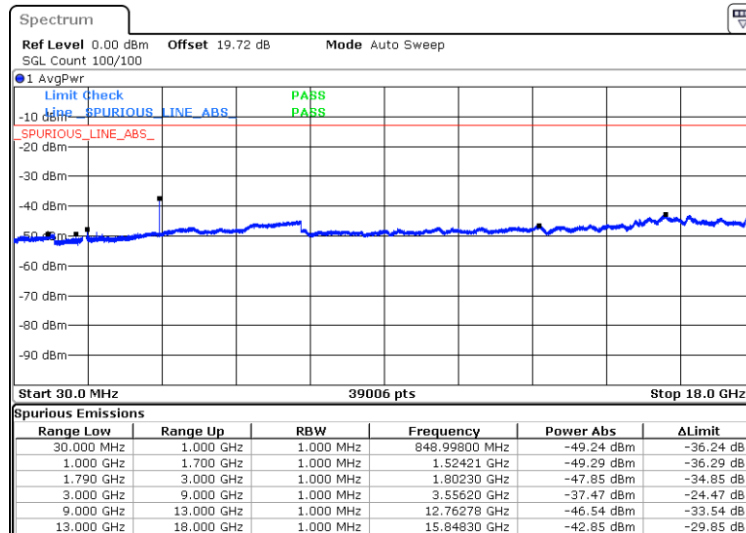
Date: 8 SEP 2024 19:16:36

Middle Channel / QPSK



Date: 8 SEP 2024 19:19:23

Highest Channel / QPSK

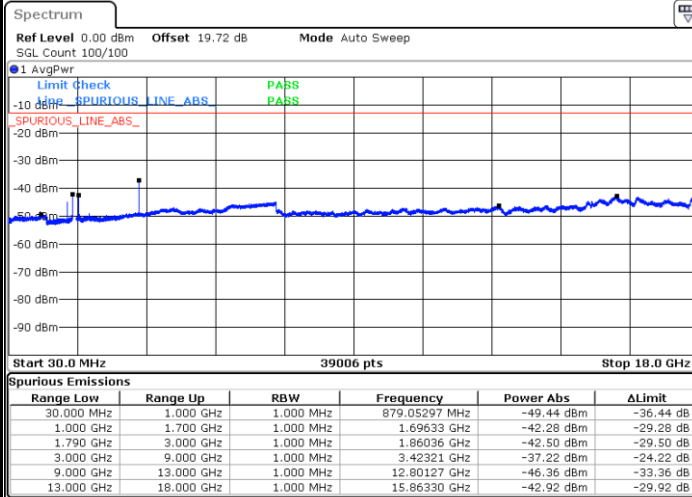


Date: 8 SEP 2024 19:20:30



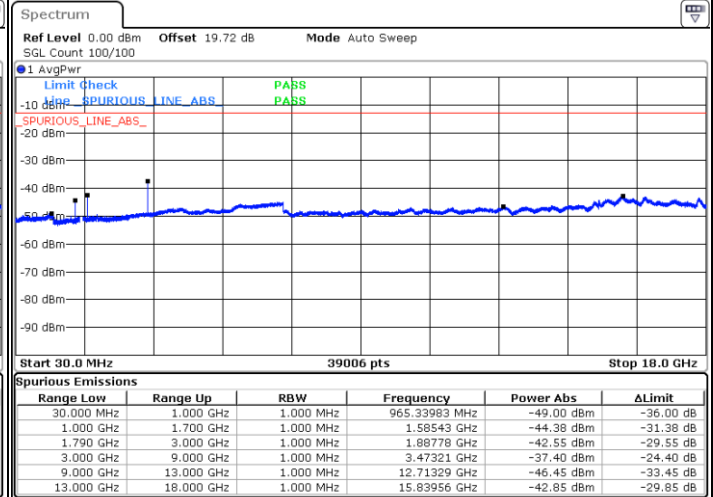
LTE Band 66 / 20MHz

Lowest Channel / QPSK



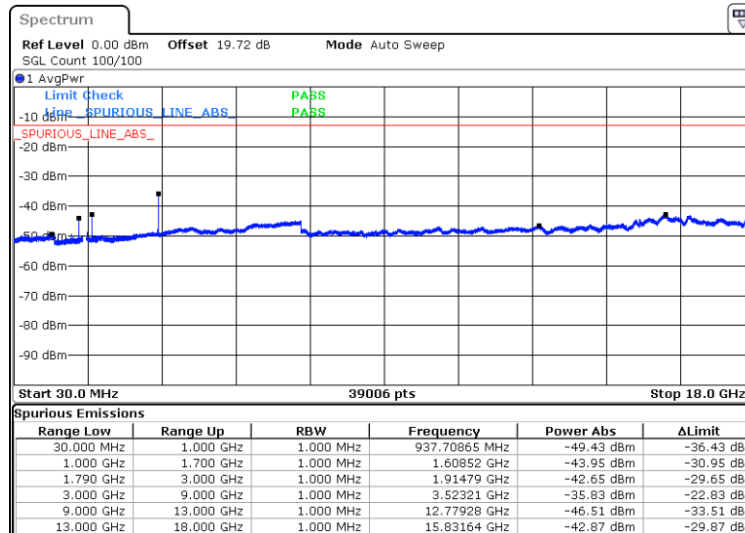
Date: 8 SEP 2024 19:23:30

Middle Channel / QPSK



Date: 8 SEP 2024 19:25:40

Highest Channel / QPSK



Date: 8 SEP 2024 19:26:51

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	0.0034	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0015	

Note:

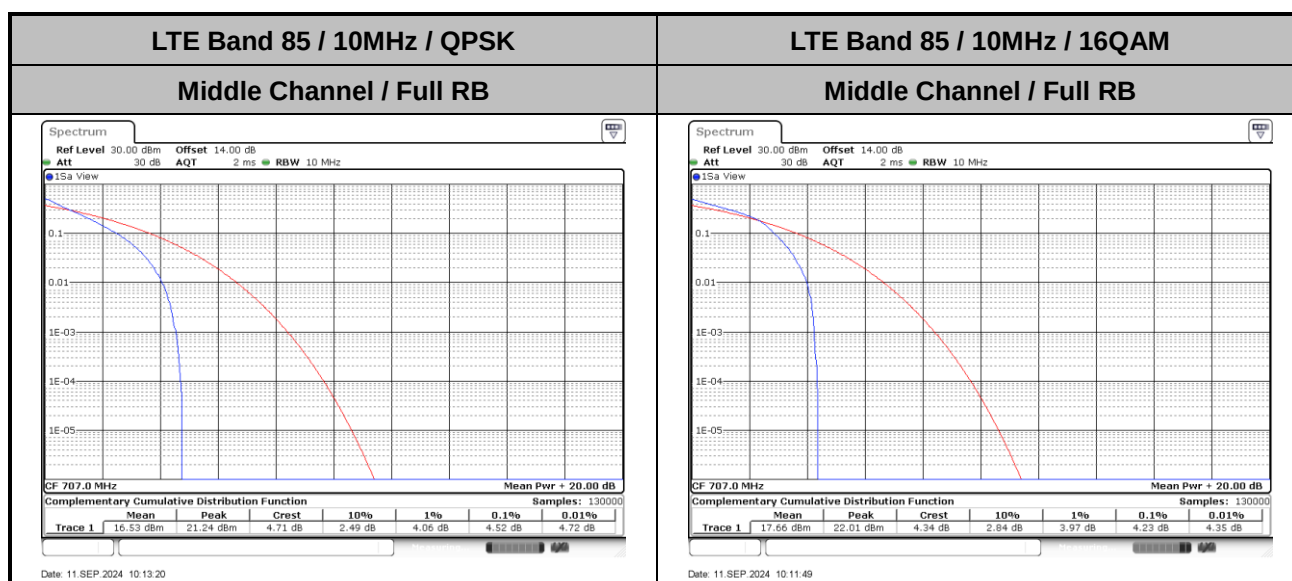
1. Normal Voltage =3.3 V. ; Minimum Voltage =3.135 V. ; Maximum Voltage =3.63 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 85

Peak-to-Average Ratio

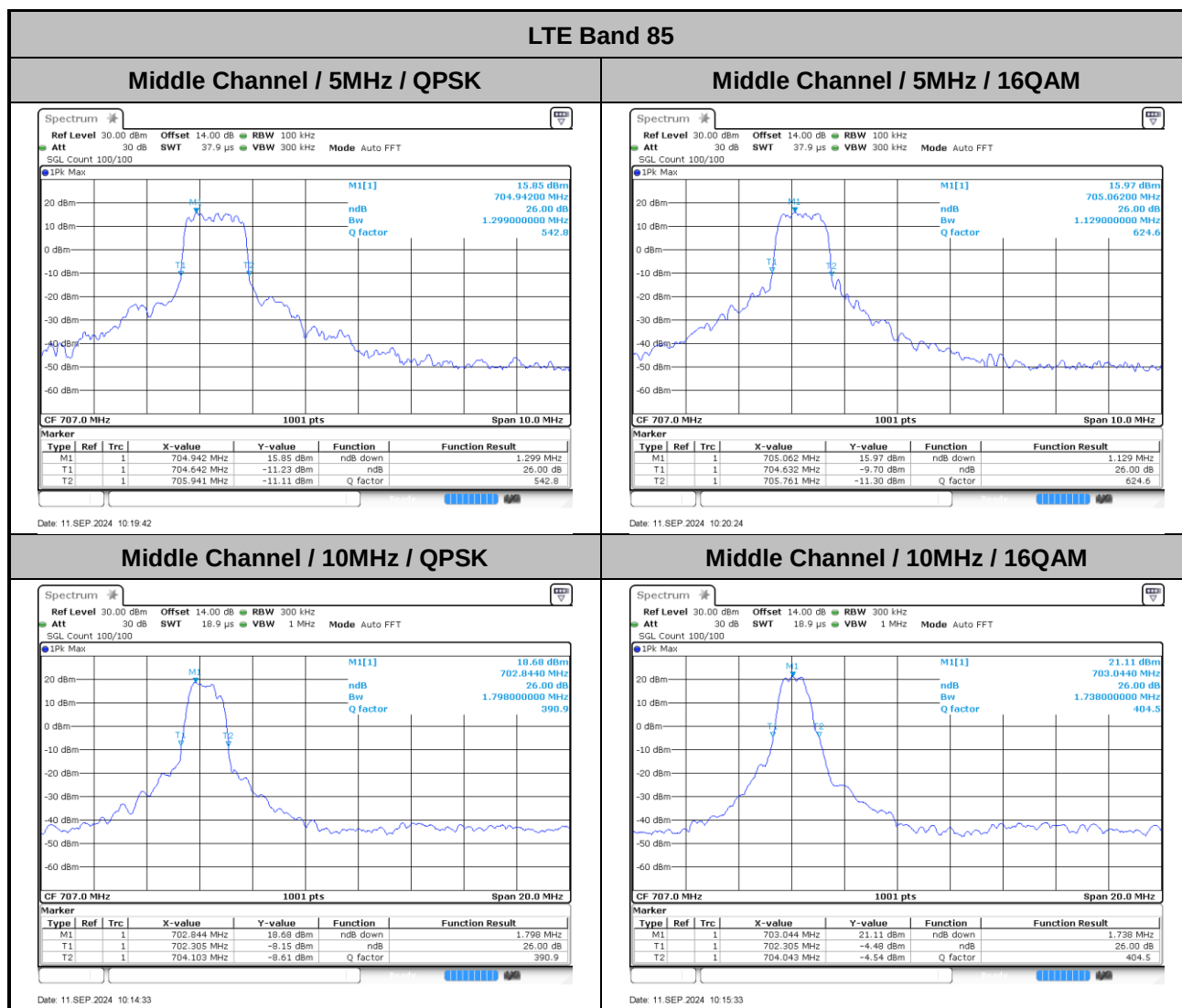
Mode	LTE Band 85 / 10MHz			
Mod.	QPSK	16QAM		Limit: 13dB
RB Size	Full RB	Full RB		Result
Middle CH	4.52	4.23		PASS





26dB Bandwidth

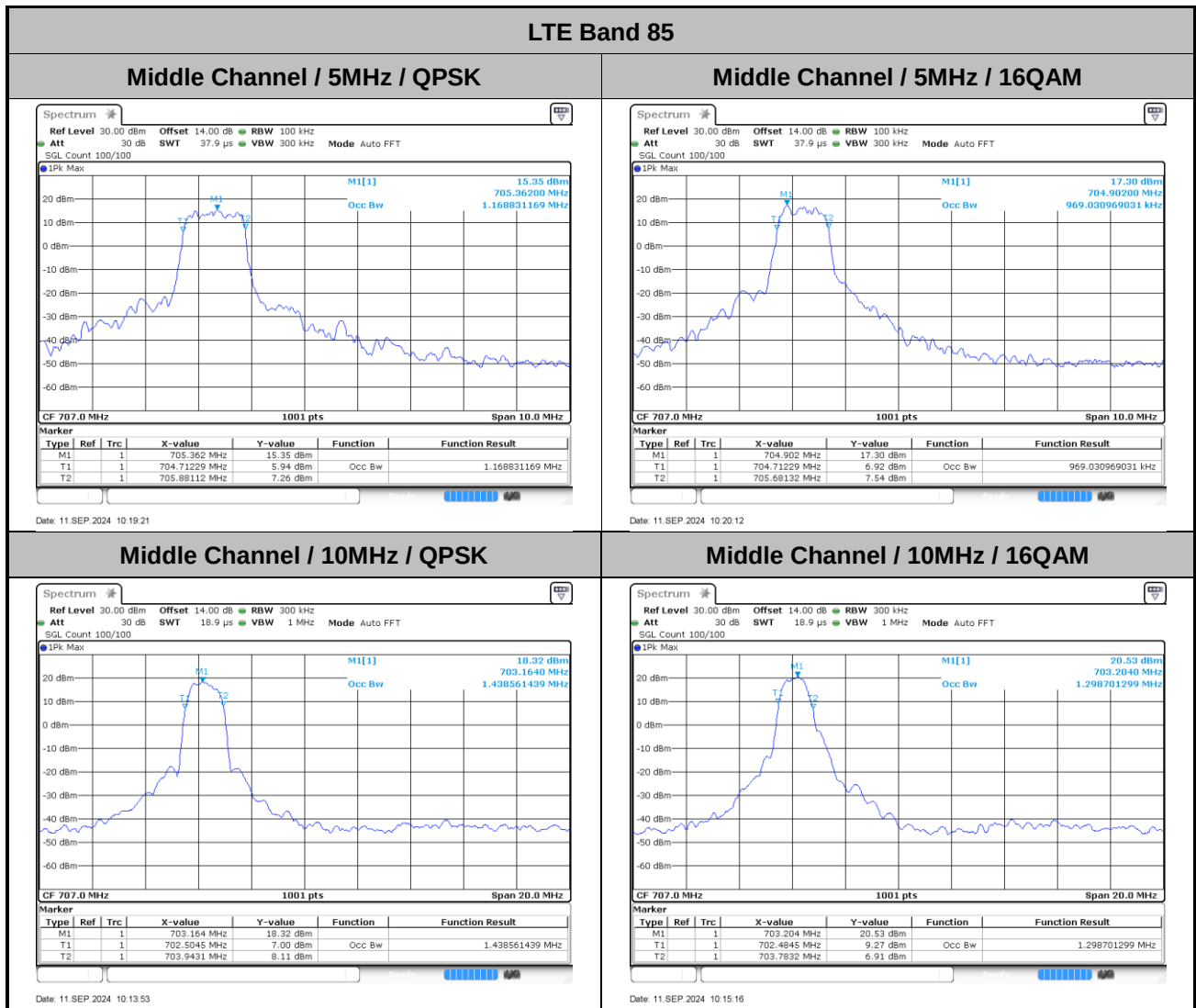
Mode	LTE Band 85 : 26dB BW(MHz)									
BW					5MHz		10MHz			
Mod.					QPSK	16QAM	QPSK	16QAM		
Middle CH					1.30	1.13	1.80	1.74		





Occupied Bandwidth

Mode	LTE Band 85 : 99%OBW(MHz)							
BW	5MHz				10MHz			
Mod.	QPSK		16QAM		QPSK		16QAM	
Middle CH	1.17	0.969	1.44	1.30				

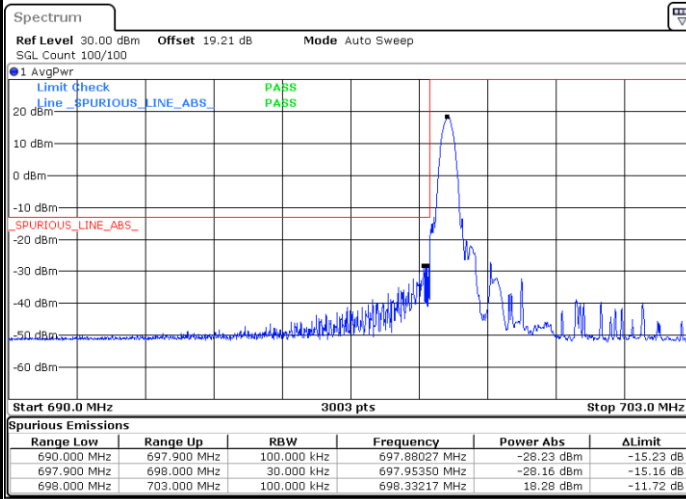




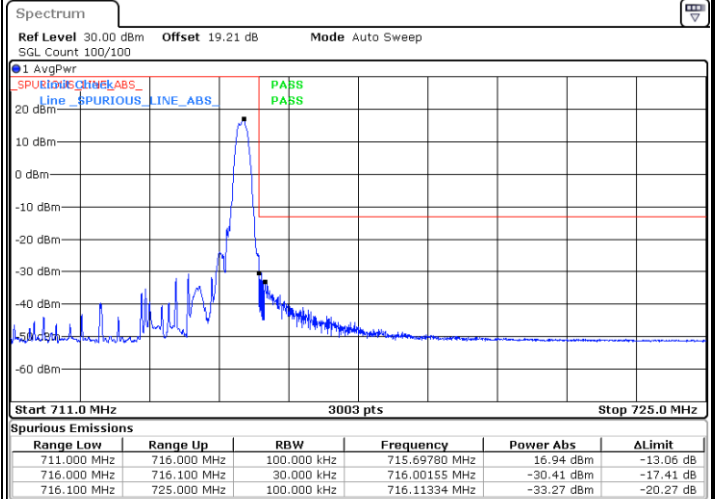
Conducted Band Edge

LTE Band 85 / 5MHz / QPSK

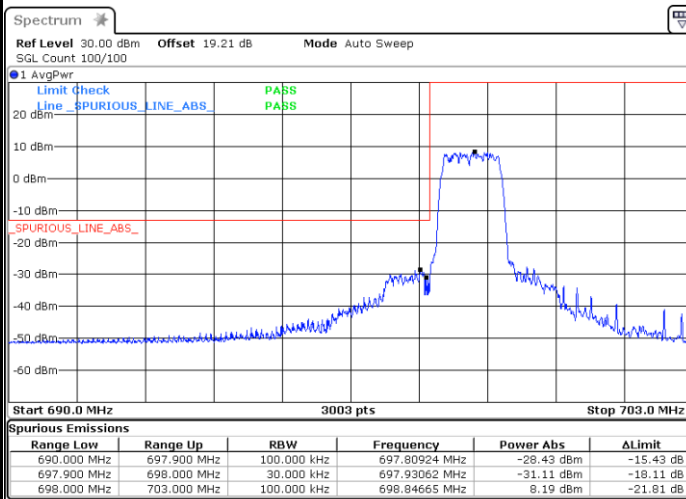
Lowest Band Edge / 1RB



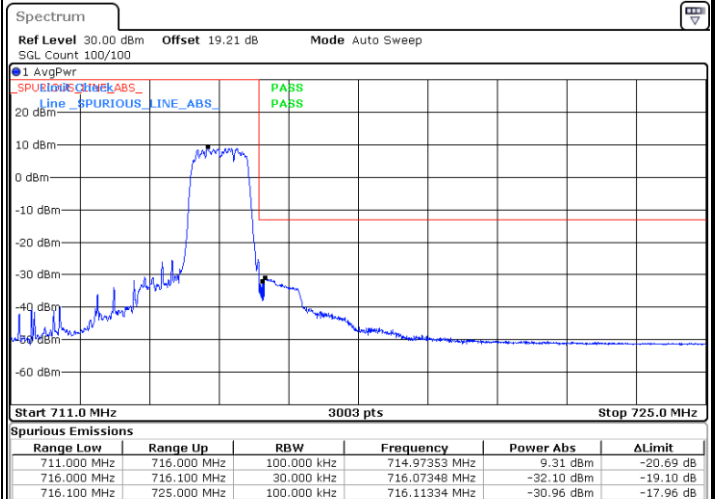
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



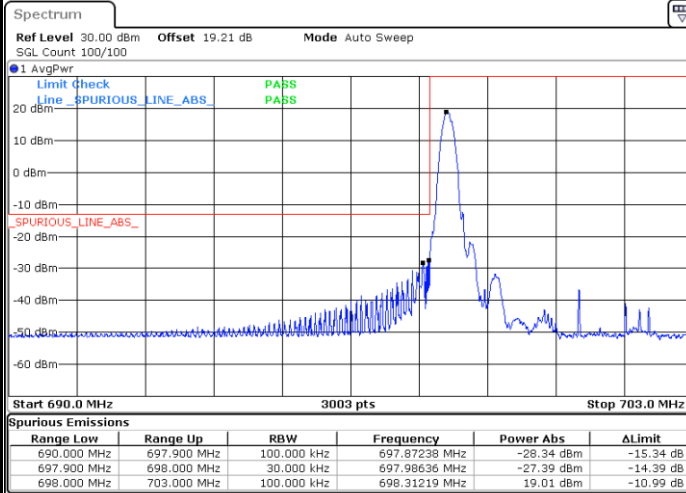
Highest Band Edge / Full RB



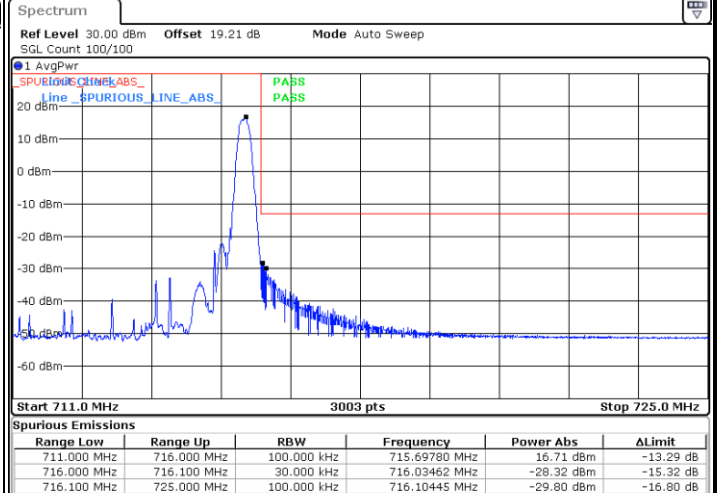


LTE Band 85 / 5MHz / 16QAM

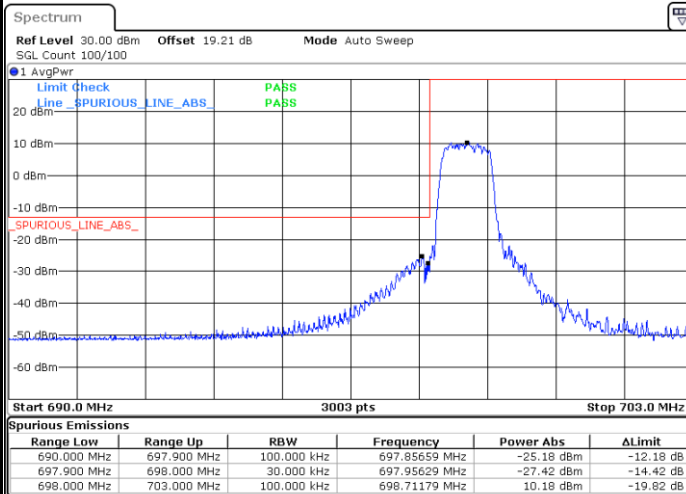
Lowest Band Edge / 1 RB



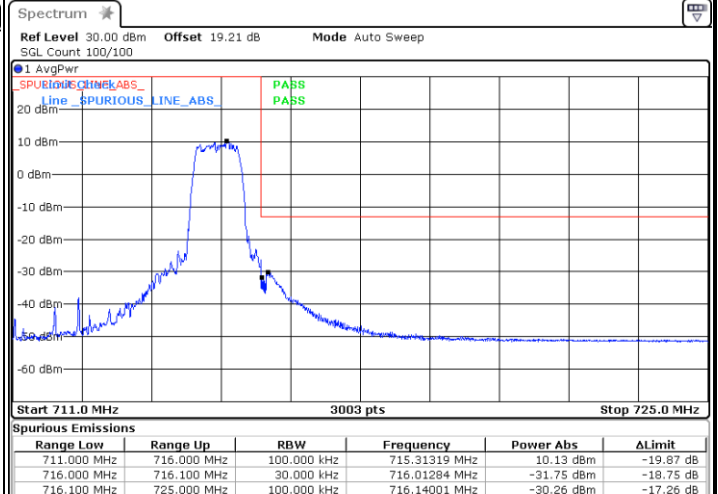
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



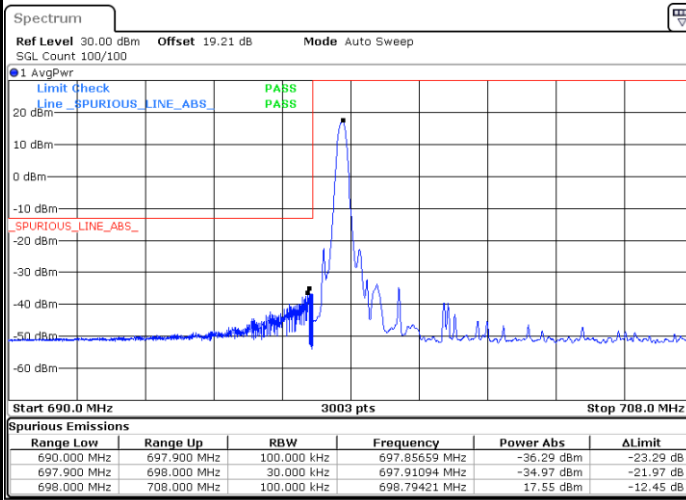
Highest Band Edge / Full RB



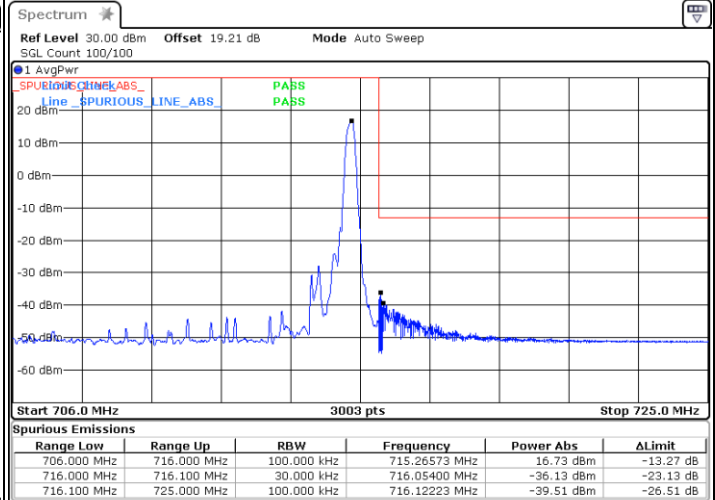


LTE Band 85 / 10MHz / QPSK

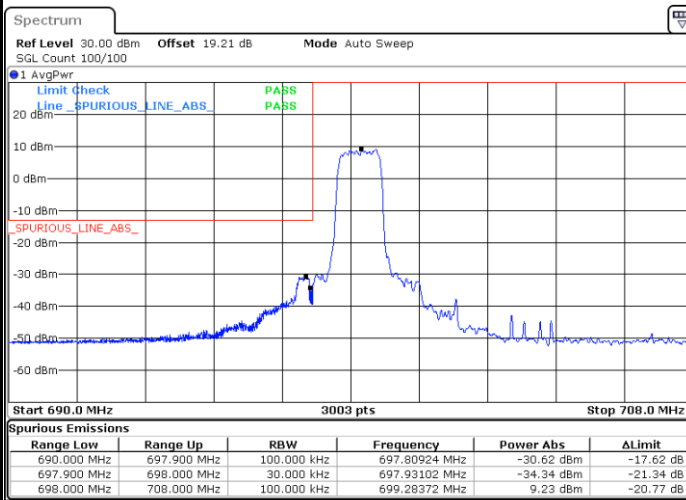
Lowest Band Edge / 1RB



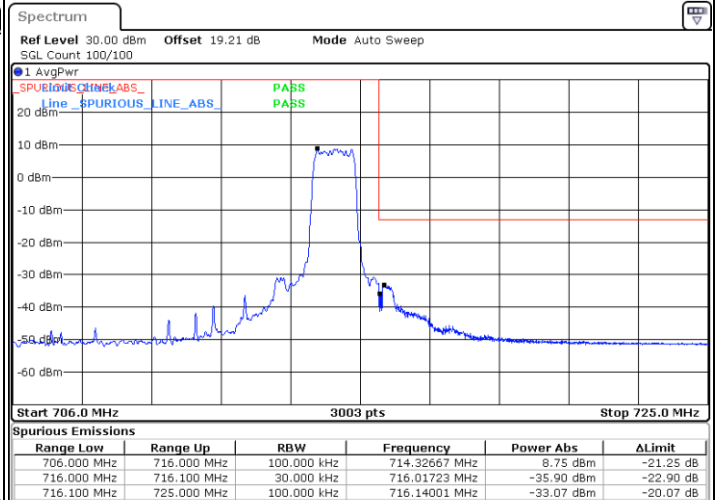
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



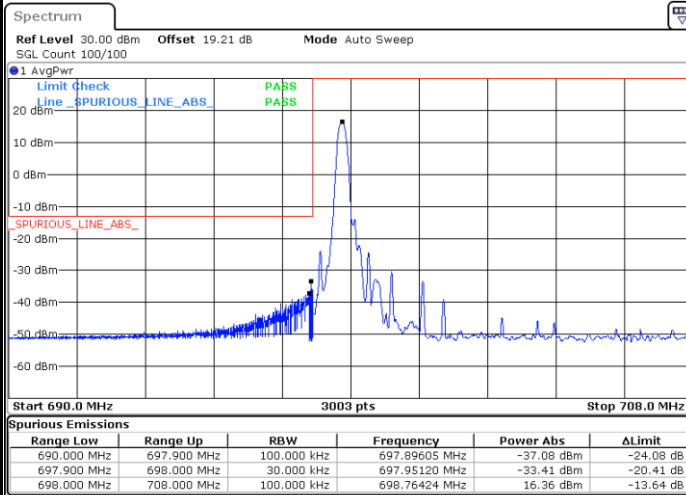
Highest Band Edge / Full RB





LTE Band 85 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



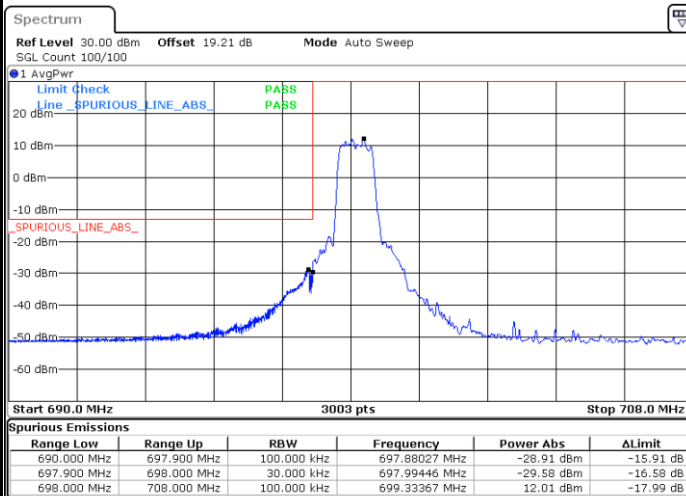
Date: 11.SEP.2024 09:58:59

Highest Band Edge / 1 RB



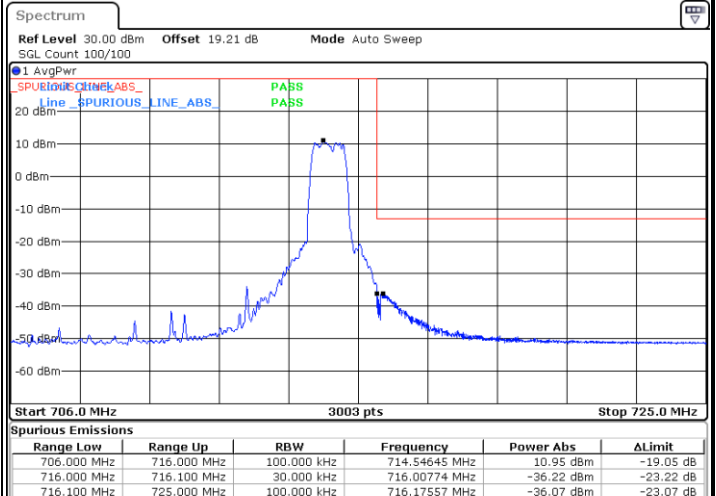
Date: 11.SEP.2024 10:09:45

Lowest Band Edge / Full RB



Date: 11.SEP.2024 09:59:32

Highest Band Edge / Full RB



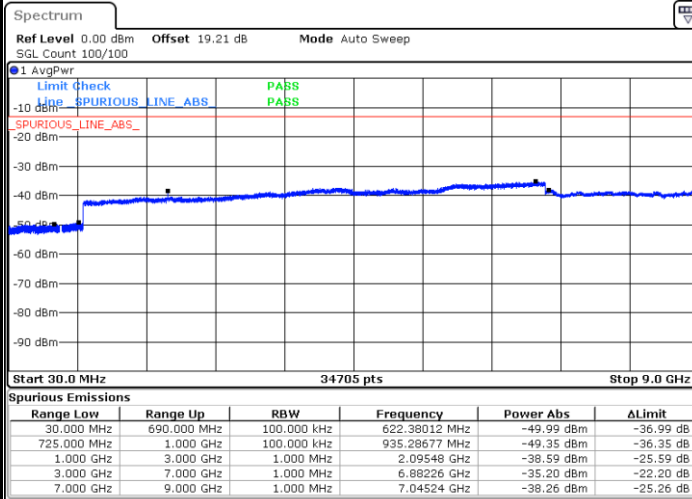
Date: 11.SEP.2024 10:09:01



Conducted Spurious Emission

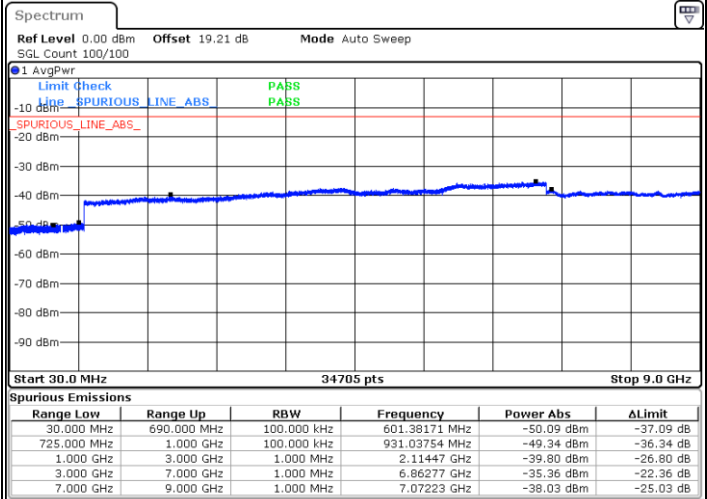
LTE Band 85 / 5MHz

Lowest Channel / QPSK



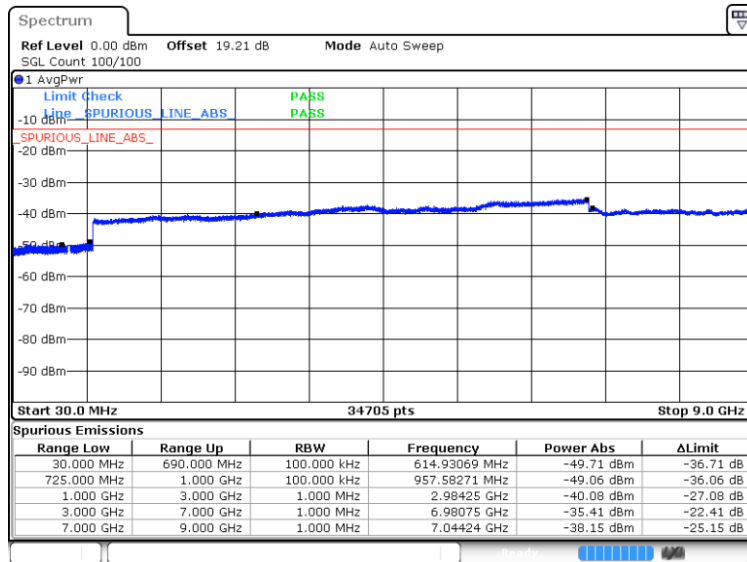
Date: 11 SEP 2024 09:45:56

Middle Channel / QPSK



Date: 11 SEP 2024 09:48:49

Highest Channel / QPSK

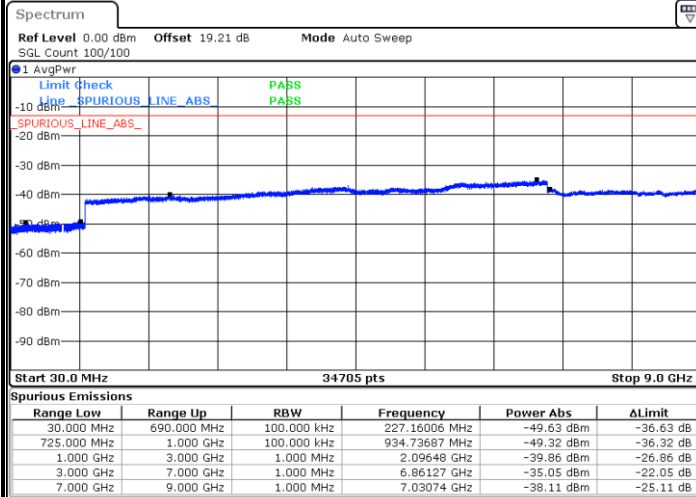


Date: 11 SEP 2024 09:55:42



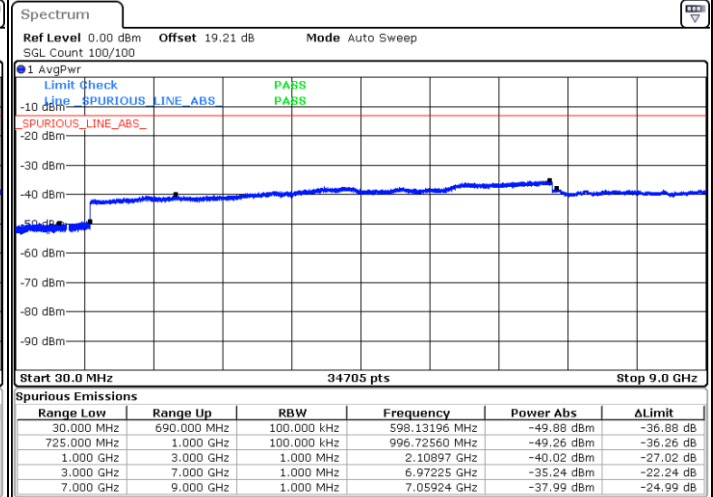
LTE Band 85 / 10MHz

Lowest Channel / QPSK



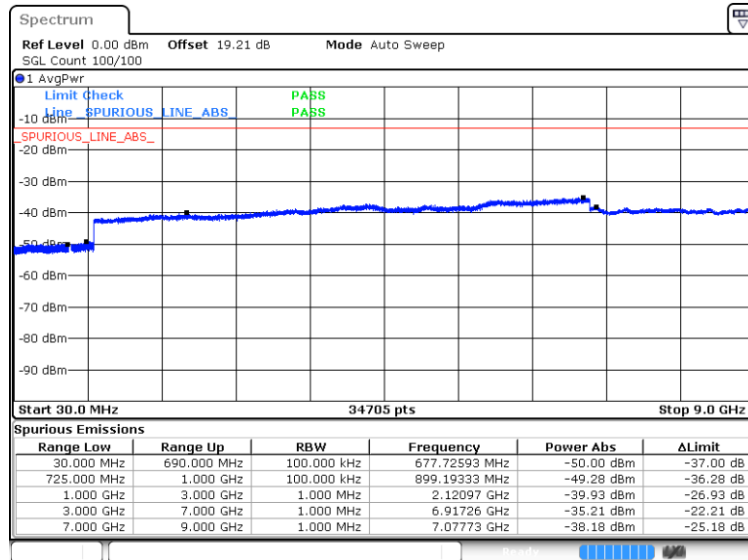
Date: 11 SEP 2024 09:58:22

Middle Channel / QPSK



Date: 11 SEP 2024 10:02:51

Highest Channel / QPSK



Date: 11 SEP 2024 10:05:03

Frequency Stability

Test Conditions		LTE Band 85 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0070	
-20	Normal Voltage	0.0037	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0003	

Note:

1. Normal Voltage =3.3 V. ; Minimum Voltage =3.135 V. ; Maximum Voltage =3.63 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	ZhangXu	Temperature :	22~25℃
		Relative Humidity :	48~52%

RSE pretest all the supported Antennas, only the worst results are shown in the report.

LTE Band 12 / 10MHz / QPSK/ Monopole Antenna									
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	1399	-56.30	-13	-43.30	-64.98	-59.53	3.98	9.36	H
	2098.5	-48.81	-13	-35.81	-59.95	-52.36	4.85	10.55	H
	2798	-58.77	-13	-45.77	-72.27	-63.70	5.50	12.58	H
	1399	-60.86	-13	-47.86	-69.44	-64.09	3.98	9.36	V
	2098.5	-46.31	-13	-33.31	-57.68	-49.86	4.85	10.55	V
	2798	-58.03	-13	-45.03	-71.46	-62.96	5.50	12.58	V
Middle	1406	-59.86	-13	-46.86	-68.56	-63.11	4.00	9.40	H
	2109	-51.09	-13	-38.09	-62.34	-54.66	4.88	10.60	H
	2812	-60.24	-13	-47.24	-73.77	-65.17	5.52	12.60	H
	1406	-63.03	-13	-50.03	-71.62	-66.28	4.00	9.40	V
	2109	-54.35	-13	-41.35	-65.83	-57.92	4.88	10.60	V
	2812	-59.34	-13	-46.34	-72.80	-64.27	5.52	12.60	V
Highest	1413	-54.12	-13	-41.12	-62.84	-57.29	4.10	9.42	H
	2119.5	-49.54	-13	-36.54	-60.90	-53.12	4.90	10.63	H
	2826	-60.26	-13	-47.26	-73.83	-65.18	5.55	12.62	H
	1413	-61.54	-13	-48.54	-70.14	-64.71	4.10	9.42	V
	2119.5	-46.75	-13	-33.75	-58.36	-50.33	4.90	10.63	V
	2826	-55.84	-13	-42.84	-69.34	-60.76	5.55	12.62	V

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



LTE Band 13 / 5MHz / QPSK/ Monopole Antenna									
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	1554.5	-58.72	-13	-45.72	-67.63	-61.95	3.98	9.36	H
	2331.75	-54.00	-13	-41.00	-65.87	-57.55	4.85	10.55	H
	3109	-61.24	-13	-48.24	-75.64	-66.17	5.50	12.58	H
	1554.5	-55.75	-13	-42.75	-64.43	-58.98	3.98	9.36	V
	2331.75	-52.40	-13	-39.40	-64.30	-55.95	4.85	10.55	V
	3109	-61.29	-13	-48.29	-75.51	-66.22	5.50	12.58	V
Middle	1559.5	-53.17	-42.15	-11.02	-62.08	-56.42	4.00	9.40	H
	2339.25	-51.84	-13	-38.84	-63.70	-55.41	4.88	10.60	H
	3119	-59.56	-13	-46.56	-74.00	-64.49	5.52	12.60	H
	1559.5	-63.50	-42.15	-21.35	-72.18	-66.75	4.00	9.40	V
	2339.25	-55.93	-13	-42.93	-67.80	-59.50	4.88	10.60	V
	3119	-60.79	-13	-47.79	-75.04	-65.72	5.52	12.60	V
Highest	1564.5	-57.80	-42.15	-15.65	-66.71	-60.97	4.10	9.42	H
	2346.75	-58.33	-13	-45.33	-70.17	-61.91	4.90	10.63	H
	3129	-62.54	-13	-49.54	-77.03	-67.46	5.55	12.62	H
	1564.5	-55.10	-42.15	-12.95	-63.78	-58.27	4.10	9.42	V
	2346.75	-59.77	-13	-46.77	-71.60	-63.35	4.90	10.63	V
	3129	-62.56	-13	-49.56	-76.84	-67.48	5.55	12.62	V

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

LTE Band 13 / 10MHz / QPSK/ Monopole Antenna									
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	1555	-58.82	-13	-45.82	-67.73	-62.07	4.00	9.40	H
	2332.5	-55.99	-13	-42.99	-67.86	-59.56	4.88	10.60	H
	3110	-61.04	-13	-48.04	-75.45	-65.97	5.52	12.60	H
	1555	-55.95	-13	-42.95	-64.63	-59.20	4.00	9.40	V
	2332.5	-54.91	-13	-41.91	-66.81	-58.48	4.88	10.60	V
	3110	-60.81	-13	-47.81	-75.03	-65.74	5.52	12.60	V

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



LTE Band 25 / 20MHz / QPSK/ Monopole Antenna									
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	3702	-43.50	-13	-30.50	-58.96	-50.26	5.82	12.58	H
	5553	-61.89	-13	-48.89	-81.39	-67.61	7.28	13.00	H
	7404	-55.66	-13	-42.66	-80.46	-58.82	8.32	11.48	H
	3702	-41.56	-13	-28.56	-56.76	-48.32	5.82	12.58	V
	5553	-55.12	-13	-42.12	-74.47	-60.84	7.28	13.00	V
	7404	-55.36	-13	-42.36	-80.48	-58.52	8.32	11.48	V
Middle	3747	-44.17	-13	-31.17	-59.76	-50.92	5.85	12.60	H
	5620.5	-60.99	-13	-47.99	-80.81	-66.79	7.30	13.10	H
	7494	-55.76	-13	-42.76	-80.45	-58.91	8.35	11.50	H
	3747	-38.09	-13	-25.09	-53.28	-44.84	5.85	12.60	V
	5620.5	-59.04	-13	-46.04	-78.16	-64.84	7.30	13.10	V
	7494	-55.61	-13	-42.61	-80.69	-58.76	8.35	11.50	V
Highest	3792	-51.07	-13	-38.07	-66.79	-57.81	5.88	12.62	H
	5688	-59.74	-13	-46.74	-80.45	-65.55	7.32	13.13	H
	7584	-55.67	-13	-42.67	-80.15	-58.83	8.38	11.54	H
	3792	-41.09	-13	-28.09	-56.27	-47.83	5.88	12.62	V
	5688	-57.03	-13	-44.03	-76.73	-62.84	7.32	13.13	V
	7584	-55.51	-13	-42.51	-80.47	-58.67	8.38	11.54	V

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

LTE Band 26 / 15MHz / QPSK/ Monopole Antenna									
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	1629.5	-62.40	-13	-49.40	-70.71	-65.63	3.98	9.36	H
	2444.25	-50.45	-13	-37.45	-62.18	-54.00	4.85	10.55	H
	3259	-61.28	-13	-48.28	-75.87	-66.21	5.50	12.58	H
	1629.5	-58.21	-13	-45.21	-66.45	-61.44	3.98	9.36	V
	2444.25	-52.24	-13	-39.24	-63.94	-55.79	4.85	10.55	V
	3259	-61.25	-13	-48.25	-75.68	-66.18	5.50	12.58	V
Middle	1649.5	-64.37	-13	-51.37	-72.26	-67.62	4.00	9.40	H
	2474.25	-54.10	-13	-41.10	-65.85	-57.67	4.88	10.60	H
	3299	-61.91	-13	-48.91	-76.37	-66.84	5.52	12.60	H
	1649.5	-59.98	-13	-46.98	-67.92	-63.23	4.00	9.40	V
	2474.25	-50.05	-13	-37.05	-61.84	-53.62	4.88	10.60	V
	3299	-61.84	-13	-48.84	-76.22	-66.77	5.52	12.60	V
Highest	1669.5	-61.59	-13	-48.59	-69.07	-64.76	4.10	9.42	H
	2504.25	-50.14	-13	-37.14	-61.91	-53.72	4.90	10.63	H
	3339	-62.18	-13	-49.18	-76.51	-67.10	5.55	12.62	H
	1669.5	-59.50	-13	-46.50	-67.15	-62.67	4.10	9.42	V
	2504.25	-48.99	-13	-35.99	-60.86	-52.57	4.90	10.63	V
	3339	-62.06	-13	-49.06	-76.40	-66.98	5.55	12.62	V

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



LTE Band 66 / 20MHz / QPSK/ Monopole Antenna									
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	3422	-47.51	-13	-34.51	-61.83	-54.39	5.60	12.48	H
	5133	-59.68	-13	-46.68	-79.23	-65.36	7.10	12.78	H
	6844	-58.39	-13	-45.39	-81.14	-61.78	8.38	11.77	H
	3422	-44.46	-13	-31.46	-58.79	-51.34	5.60	12.48	V
	5133	-59.73	-13	-46.73	-79.02	-65.41	7.10	12.78	V
	6844	-57.71	-13	-44.71	-80.88	-61.10	8.38	11.77	V
Middle	3472	-32.25	-13	-19.25	-46.81	-39.10	5.65	12.50	H
	5208	-59.69	-13	-46.69	-79.23	-65.36	7.13	12.80	H
	6944	-57.34	-13	-44.34	-80.20	-60.74	8.40	11.80	H
	3472	-41.79	-13	-28.79	-56.38	-48.64	5.65	12.50	V
	5208	-60.22	-13	-47.22	-79.37	-65.89	7.13	12.80	V
	6944	-57.56	-13	-44.56	-80.69	-60.96	8.40	11.80	V
Highest	3522	-31.83	-13	-18.83	-46.63	-38.67	5.68	12.52	H
	5283	-60.88	-13	-47.88	-80.24	-66.55	7.15	12.82	H
	7044	-57.50	-13	-44.50	-80.60	-60.93	8.42	11.85	H
	3522	-45.35	-13	-32.35	-60.19	-52.19	5.68	12.52	V
	5283	-60.88	-13	-47.88	-79.88	-66.55	7.15	12.82	V
	7044	-57.08	-13	-44.08	-80.51	-60.51	8.42	11.85	V

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

LTE Band 85 / 10MHz / QPSK/ Monopole Antenna									
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	1397	-61.35	-13	-48.35	-70.00	-64.58	3.98	9.36	H
	2095.5	-43.41	-13	-30.41	-54.52	-46.96	4.85	10.55	H
	2794	-59.43	-13	-46.43	-72.91	-64.36	5.50	12.58	H
	1397	-63.53	-13	-50.53	-72.08	-66.76	3.98	9.36	V
	2095.5	-53.34	-13	-40.34	-64.67	-56.89	4.85	10.55	V
	2794	-61.41	-13	-48.41	-74.82	-66.34	5.50	12.58	V
Middle	1405	-61.28	-13	-48.28	-69.98	-64.53	4.00	9.40	H
	2107.5	-46.00	-13	-33.00	-57.24	-49.57	4.88	10.60	H
	2810	-59.25	-13	-46.25	-72.78	-64.18	5.52	12.60	H
	1405	-63.04	-13	-50.04	-71.64	-66.29	4.00	9.40	V
	2107.5	-52.28	-13	-39.28	-63.75	-55.85	4.88	10.60	V
	2810	-60.82	-13	-47.82	-74.28	-65.75	5.52	12.60	V
Highest	1413	-57.48	-13	-44.48	-66.20	-60.65	4.10	9.42	H
	2119.5	-45.66	-13	-32.66	-57.02	-49.24	4.90	10.63	H
	2826	-60.77	-13	-47.77	-74.34	-65.69	5.55	12.62	H
	1413	-63.37	-13	-50.37	-71.97	-66.54	4.10	9.42	V
	2119.5	-54.64	-13	-41.64	-66.25	-58.22	4.90	10.63	V
	2826	-61.45	-13	-48.45	-74.95	-66.37	5.55	12.62	V

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