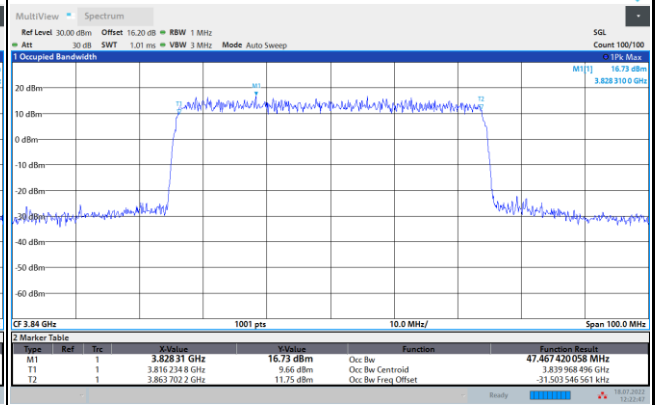
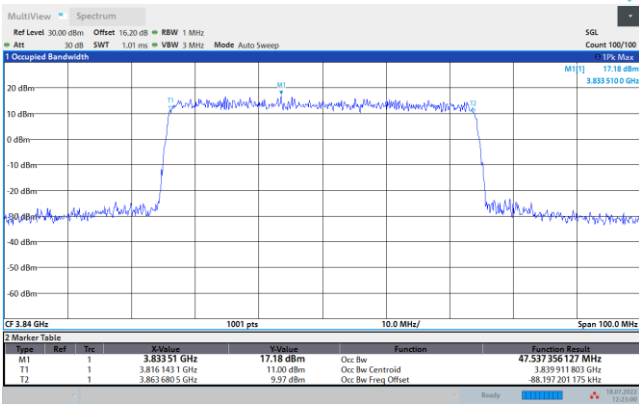




FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB

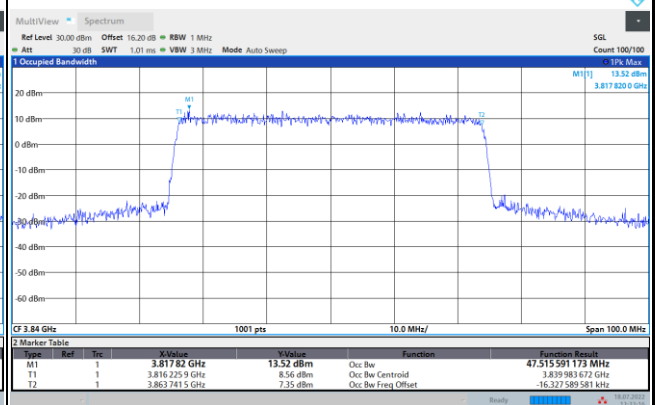
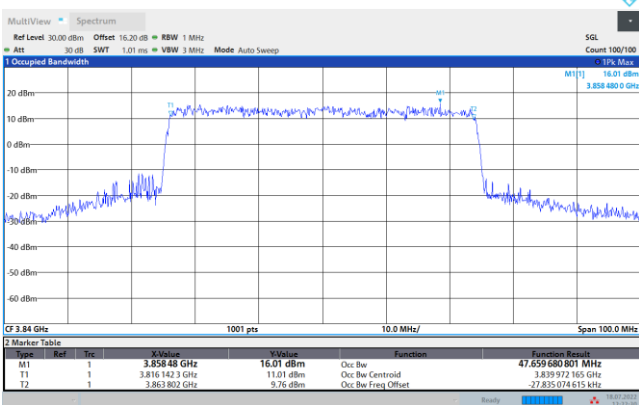
QPSK

16QAM



64QAM

256QAM

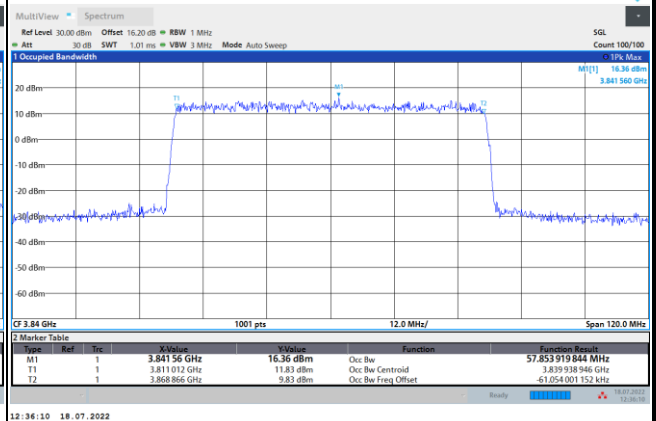
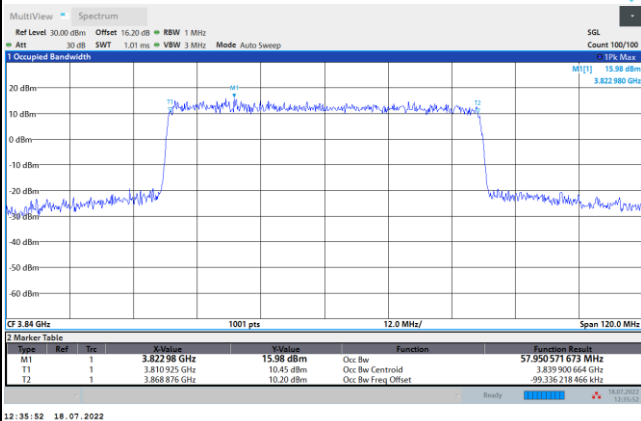




FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

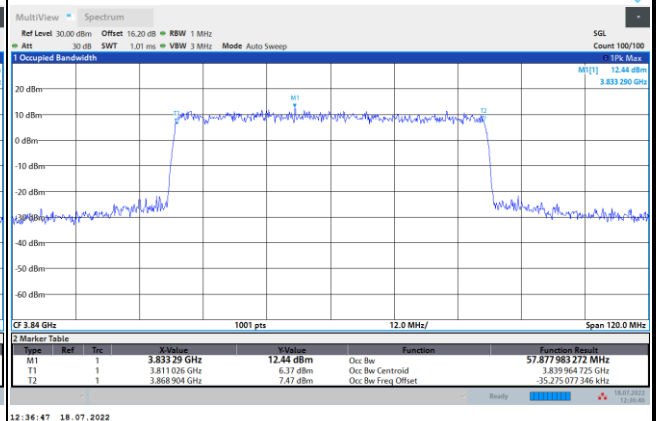
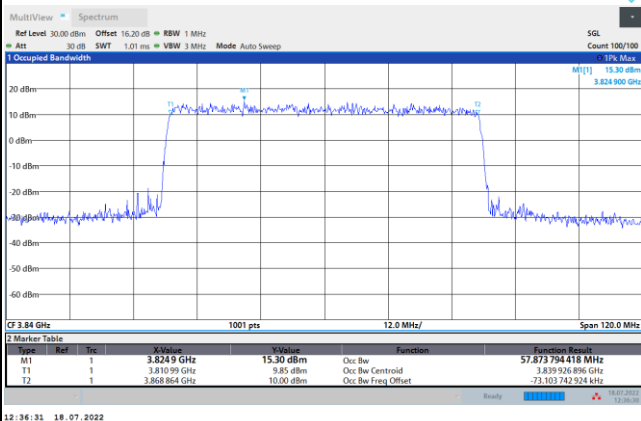
QPSK

16QAM



64QAM

256QAM

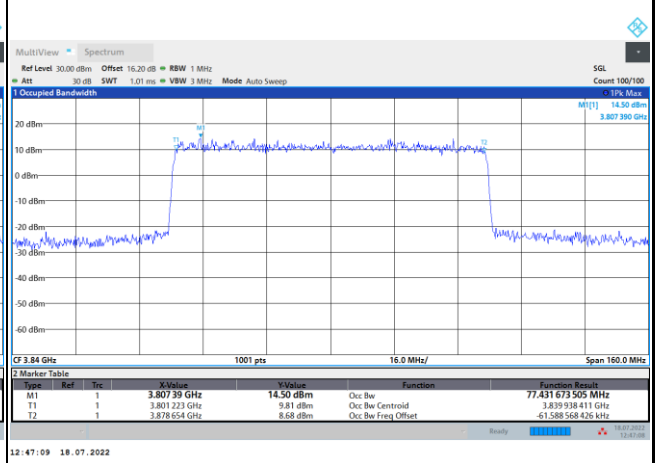
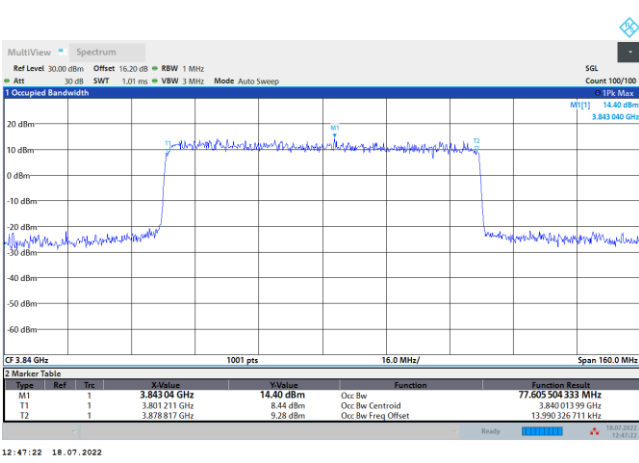




FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB

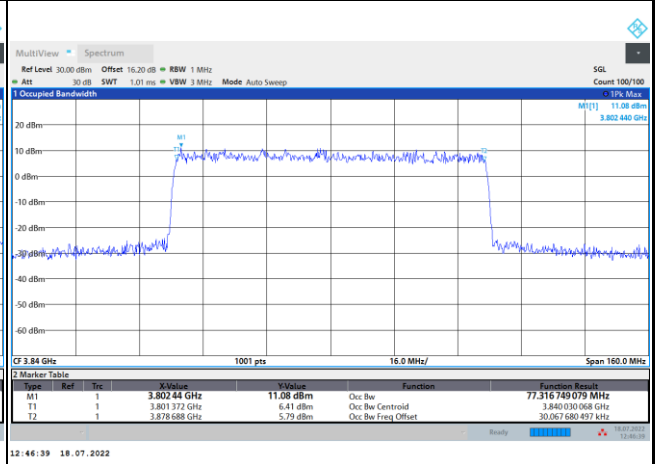
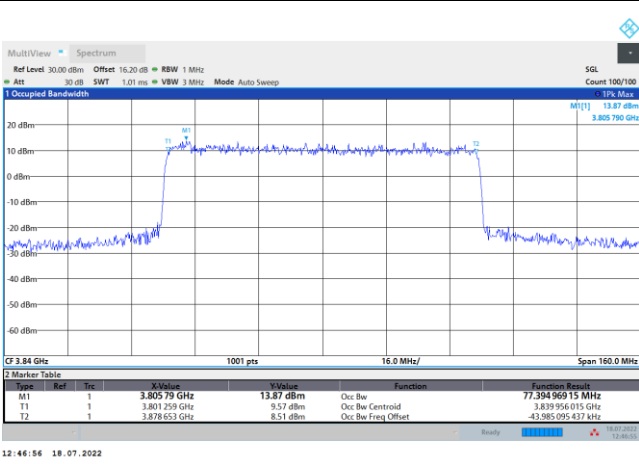
QPSK

16QAM



64QAM

256QAM

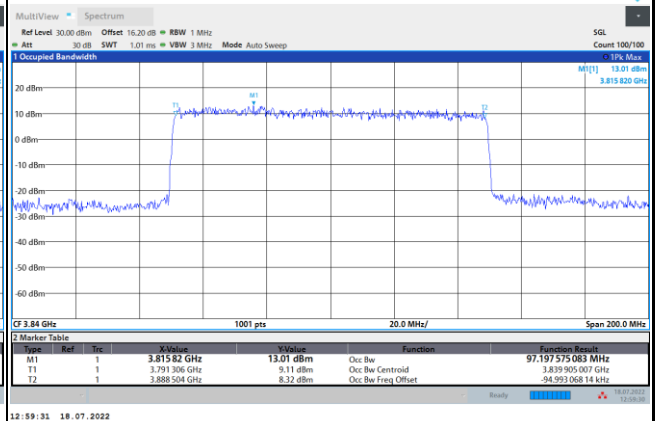
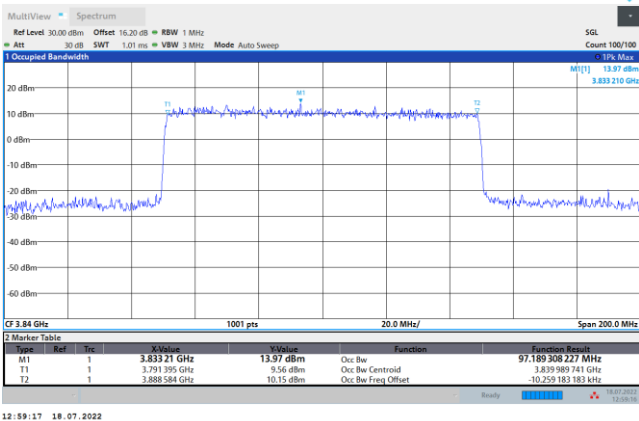




FR1 n77 / 100MHz / CP OFDM / Middle Channel / Full RB

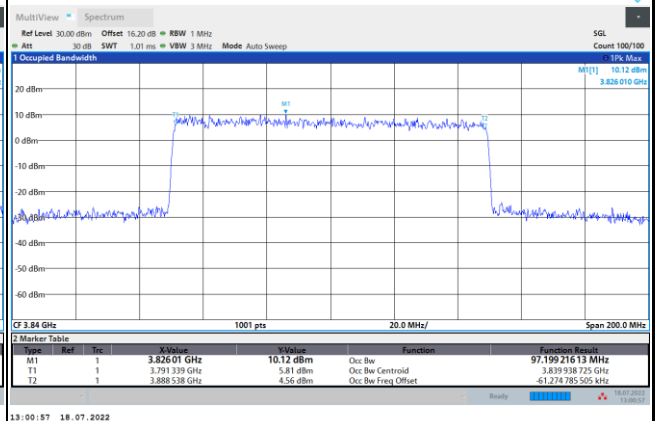
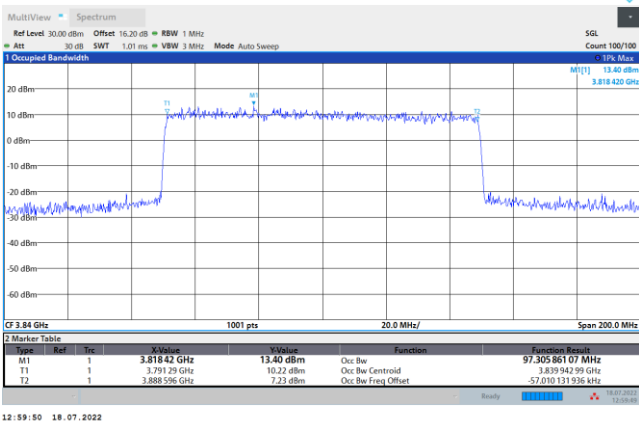
QPSK

16QAM



64QAM

256QAM



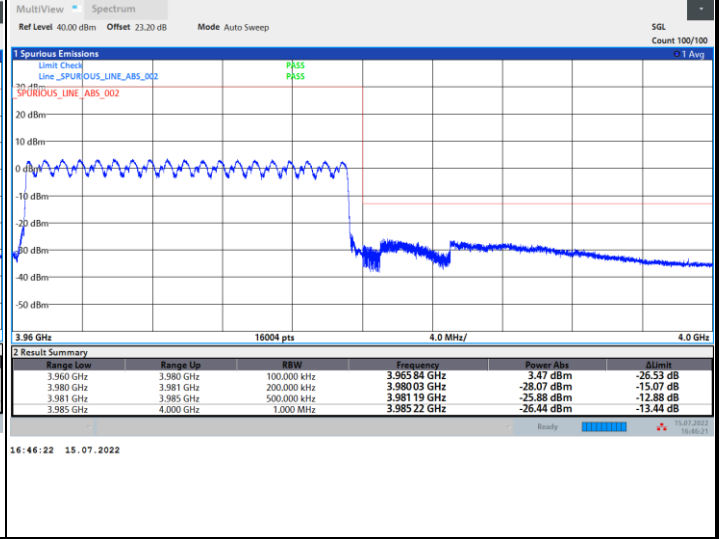
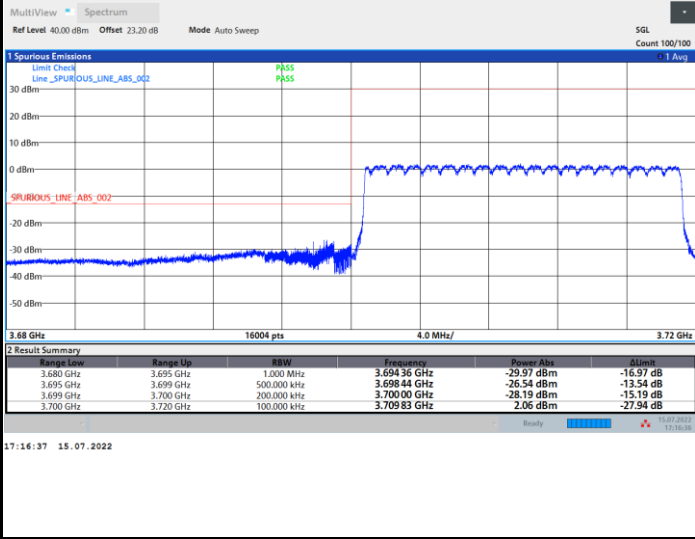


Conducted Band Edge

FR1 n77 / 20MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

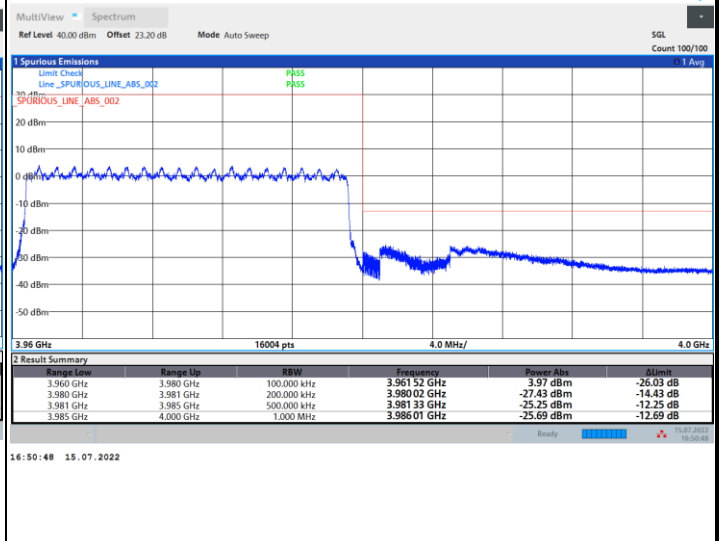
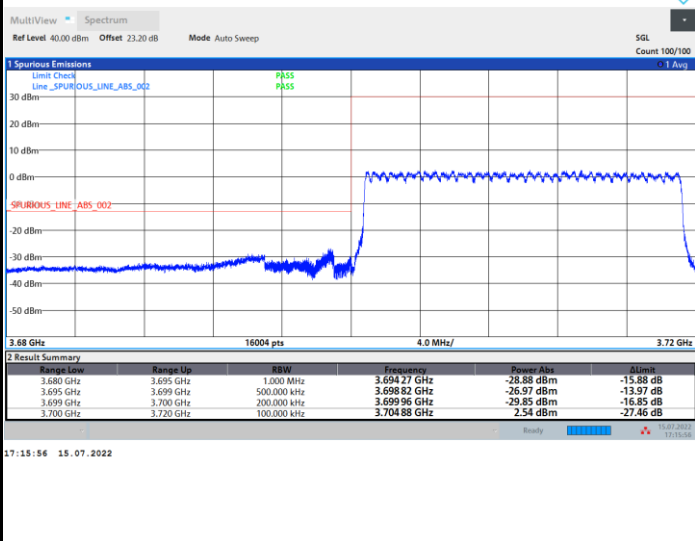
Highest Band Edge / Full RB



FR1 n77 / 20MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

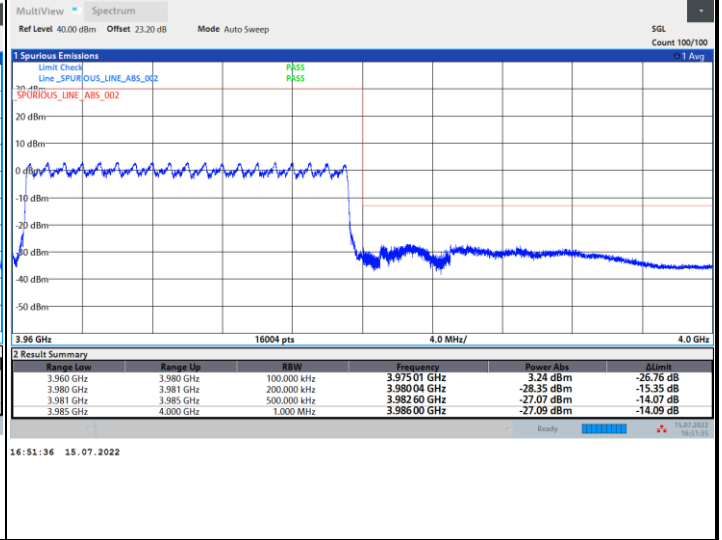
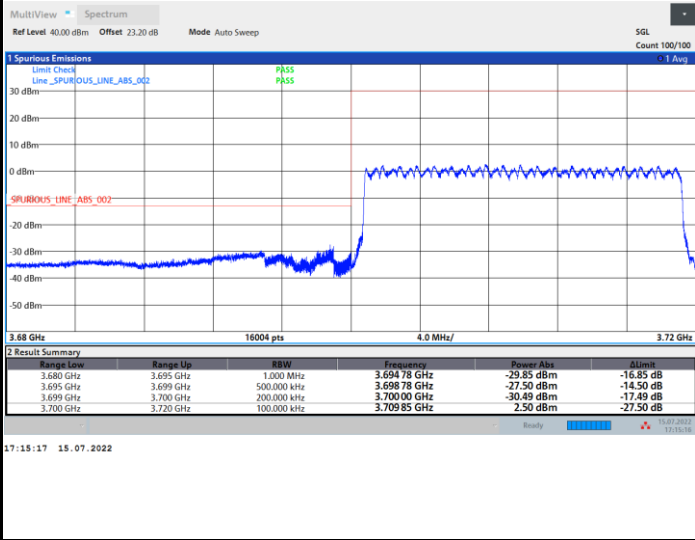




FR1 n77 / 20MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

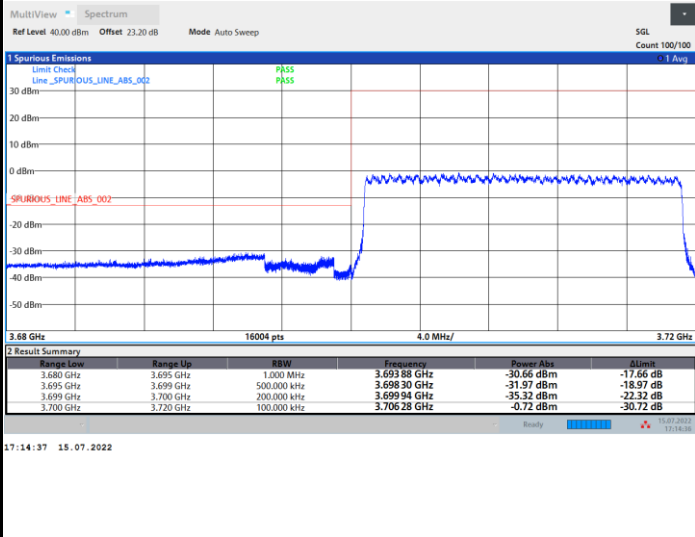
Highest Band Edge / Full RB



FR1 n77 / 20MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

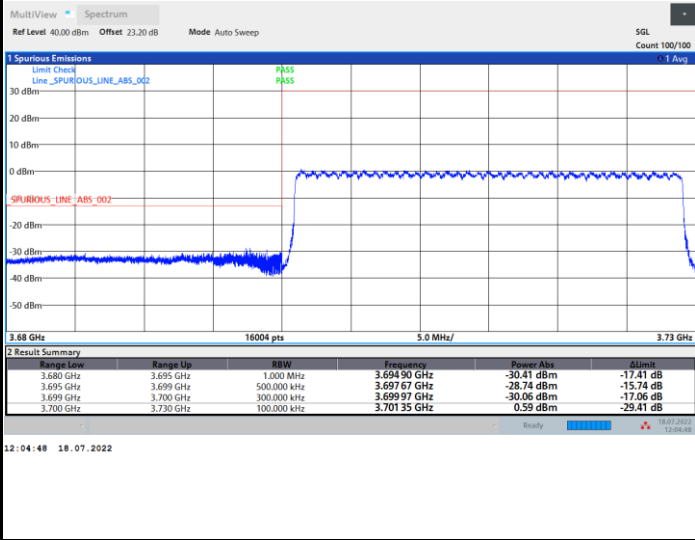




FR1 n77 / 30MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

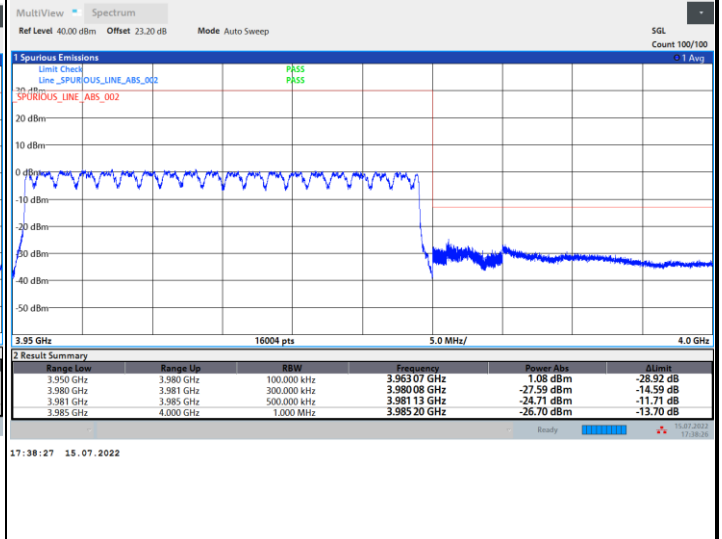
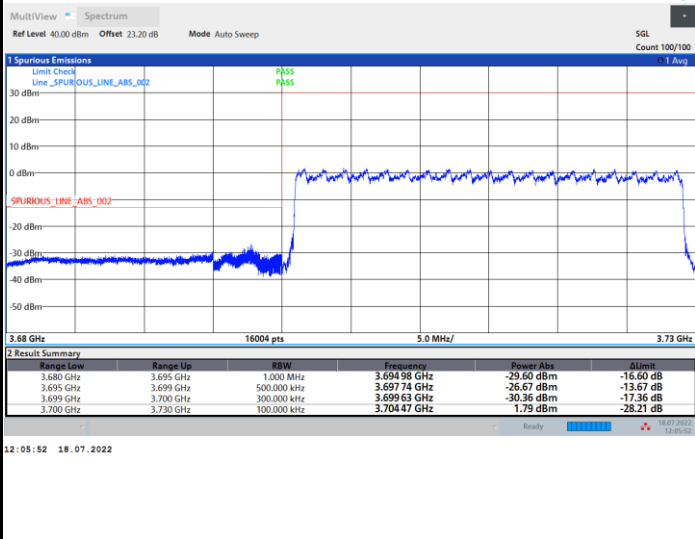
Highest Band Edge / Full RB



FR1 n77 / 30MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

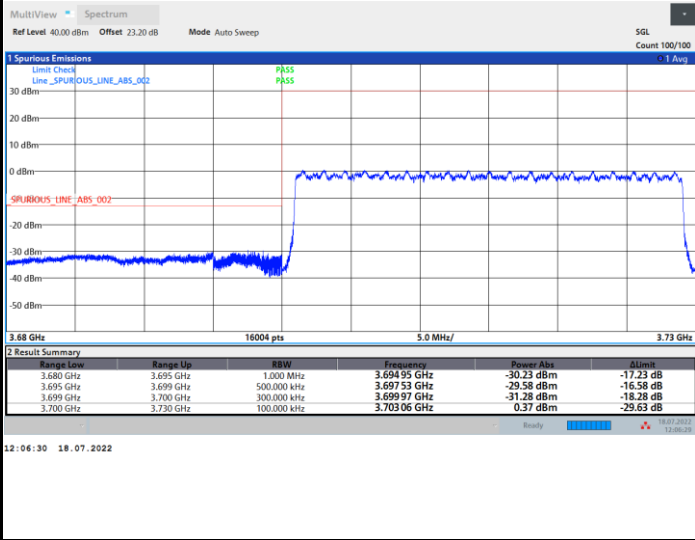




FR1 n77 / 30MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

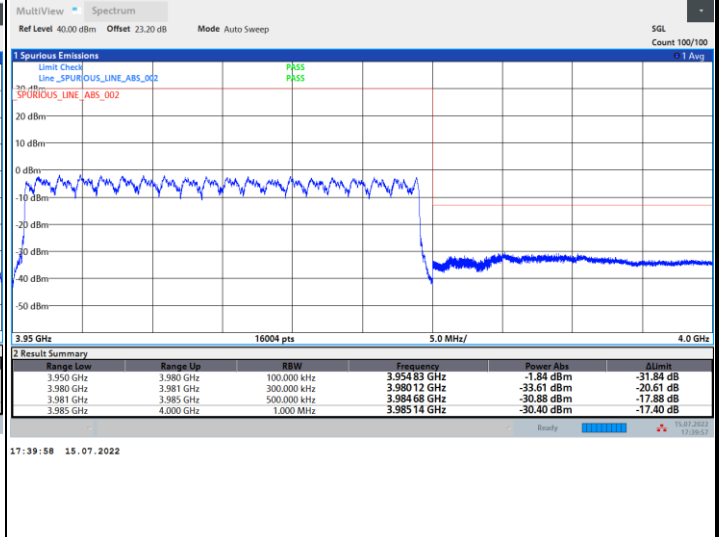
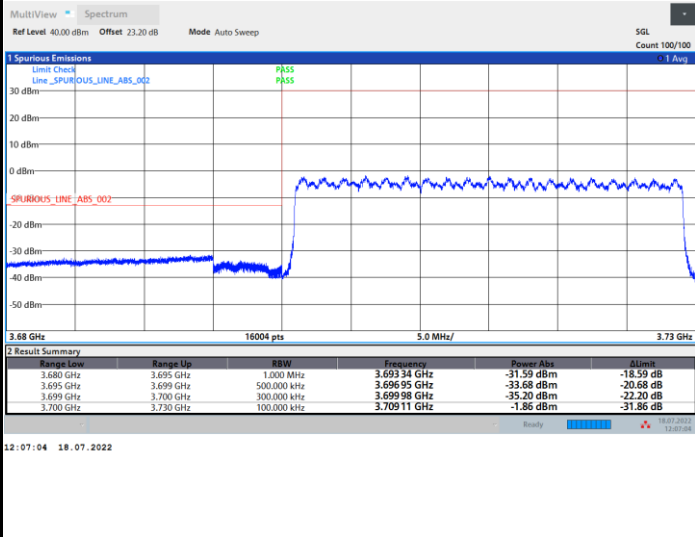
Highest Band Edge / Full RB



FR1 n77 / 30MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

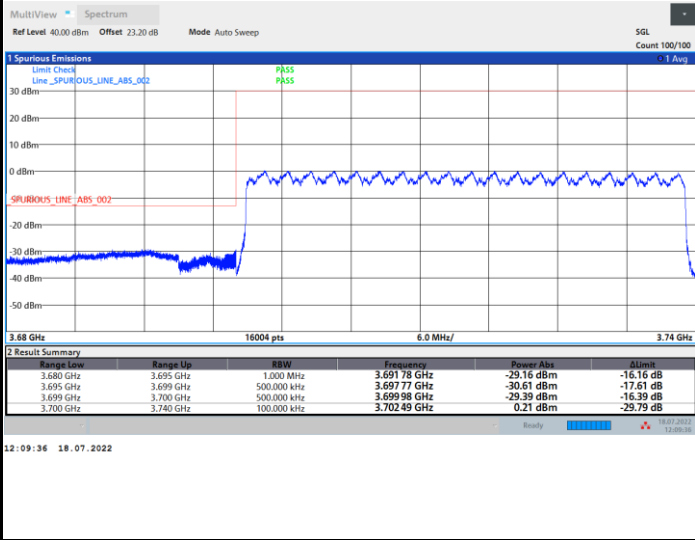




FR1 n77 / 40MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

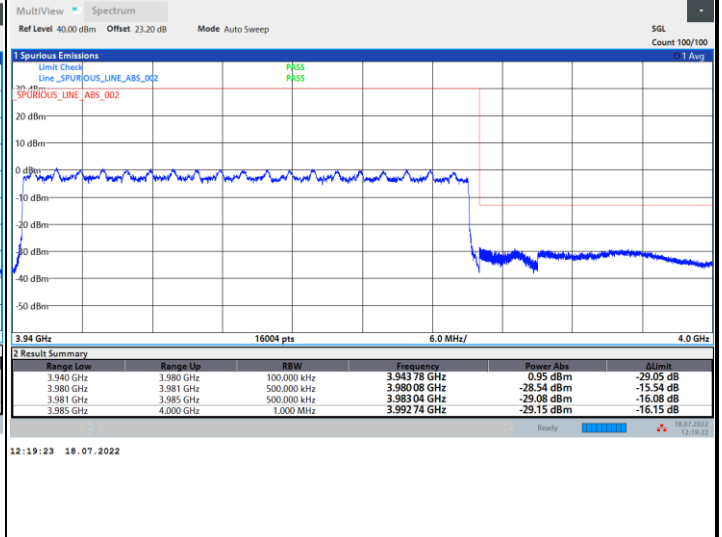
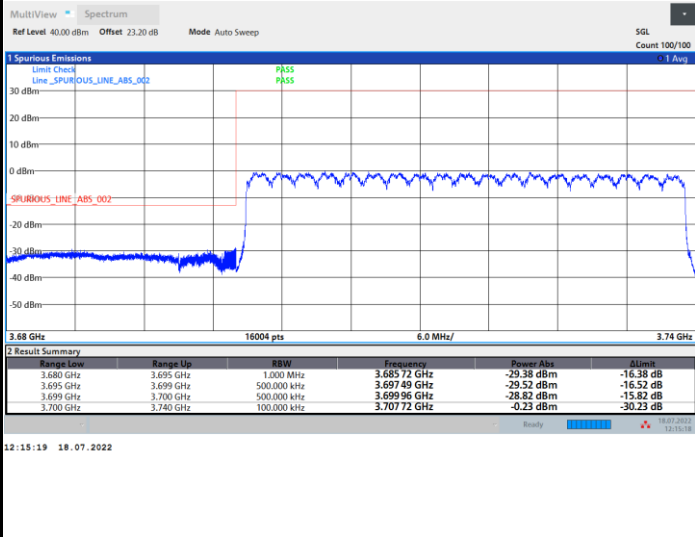
Highest Band Edge / Full RB



FR1 n77 / 40MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

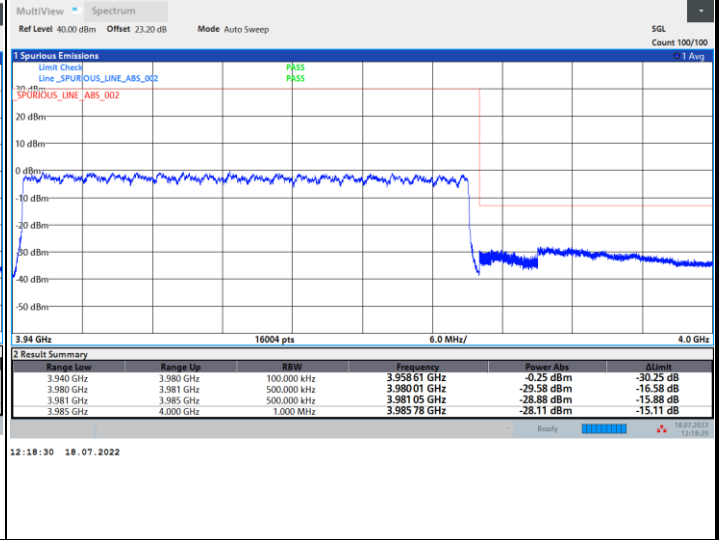
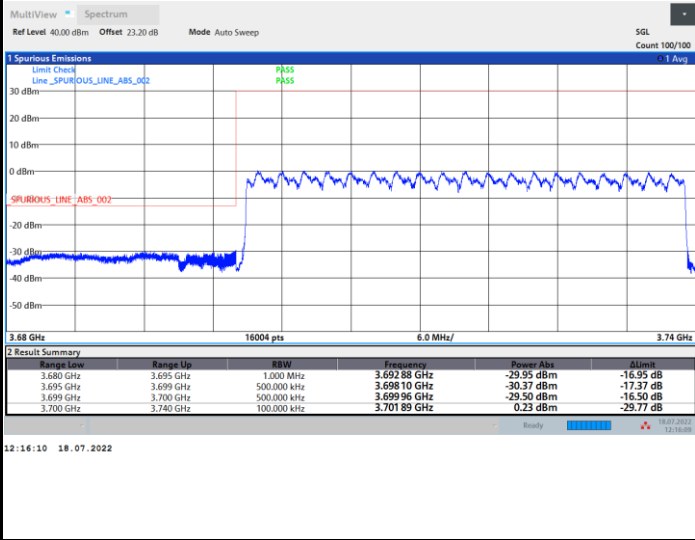




FR1 n77 / 40MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

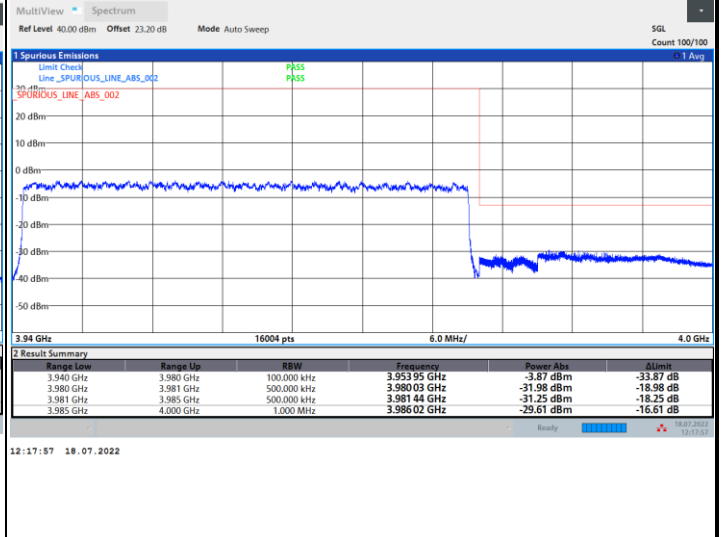
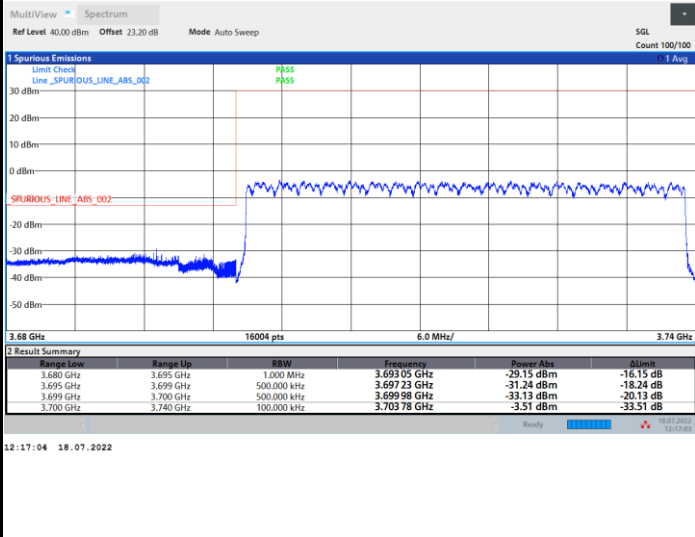
Highest Band Edge / Full RB



FR1 n77 / 40MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

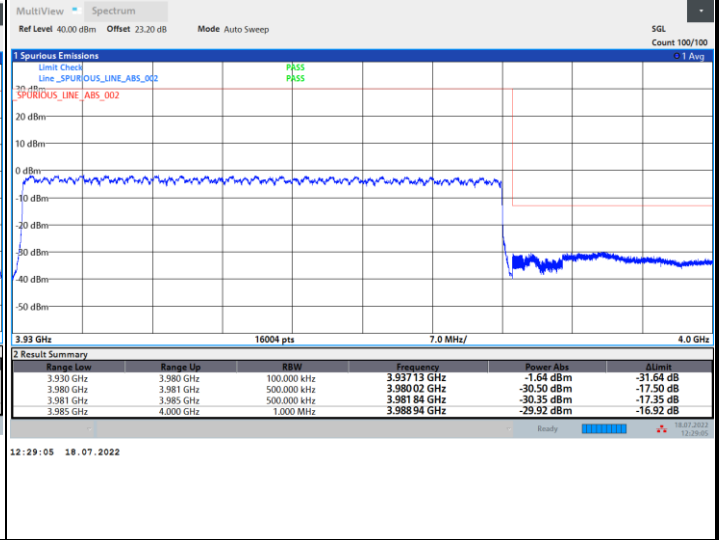
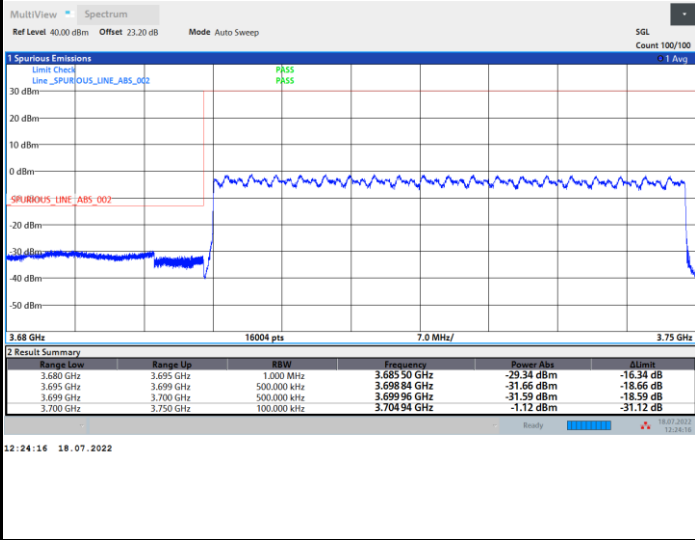




FR1 n77 / 50MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

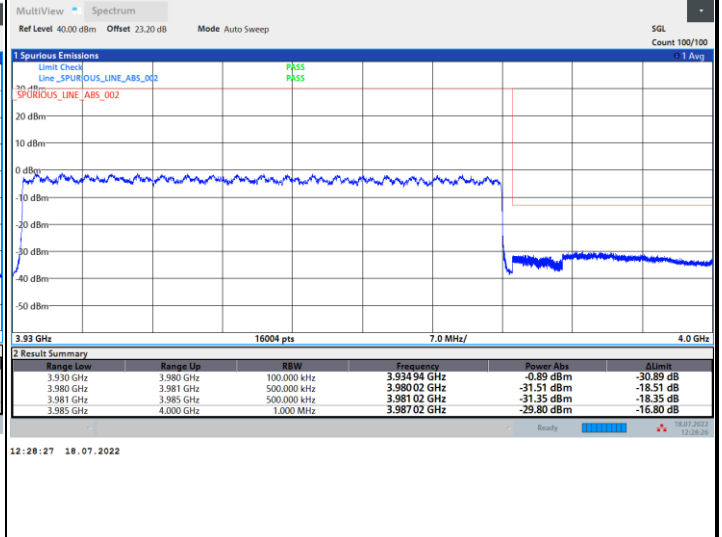
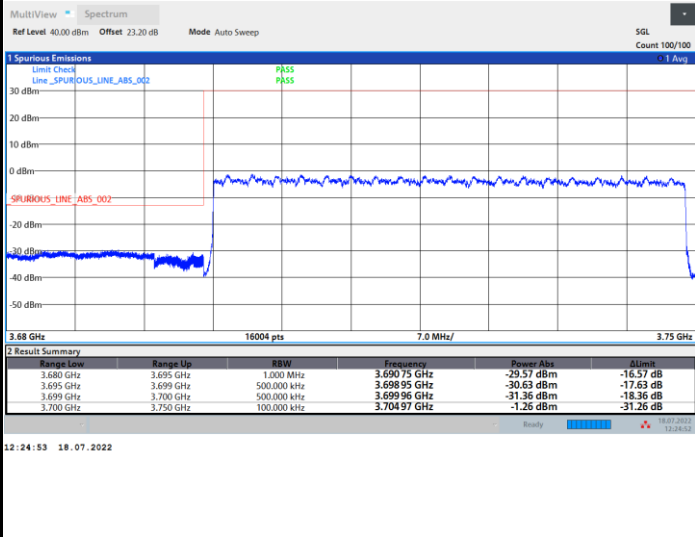
Highest Band Edge / Full RB



FR1 n77 / 50MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

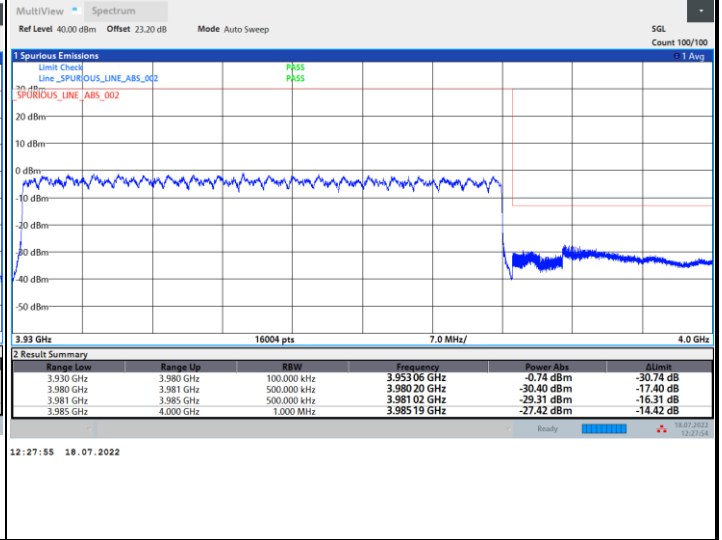
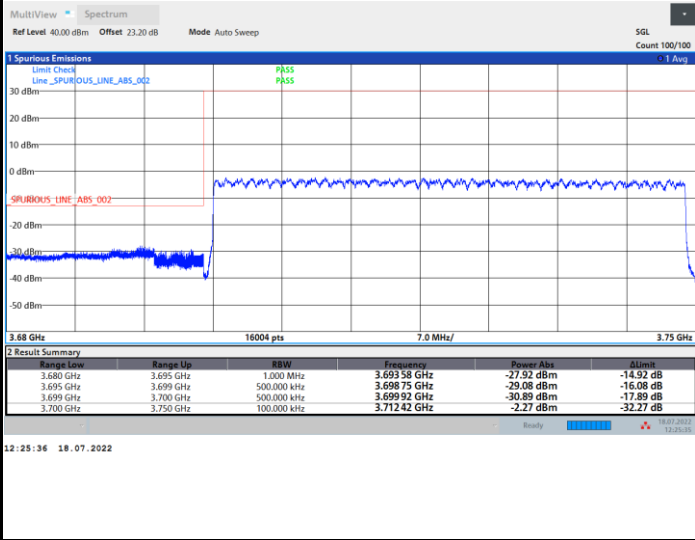




FR1 n77 / 50MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

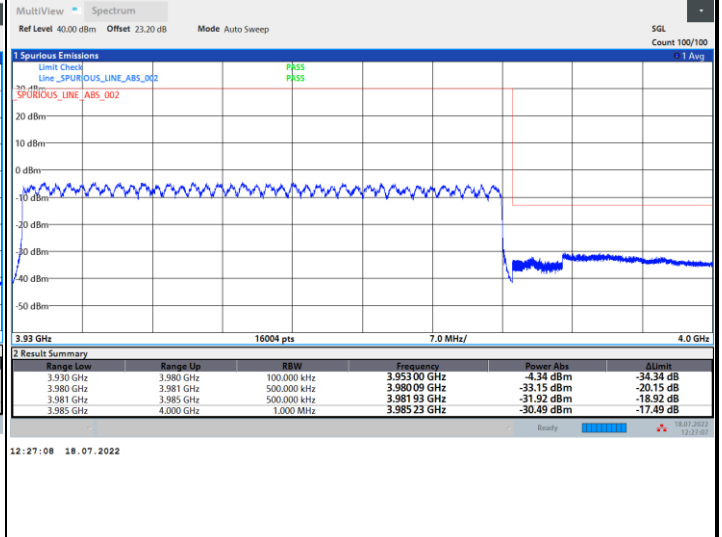
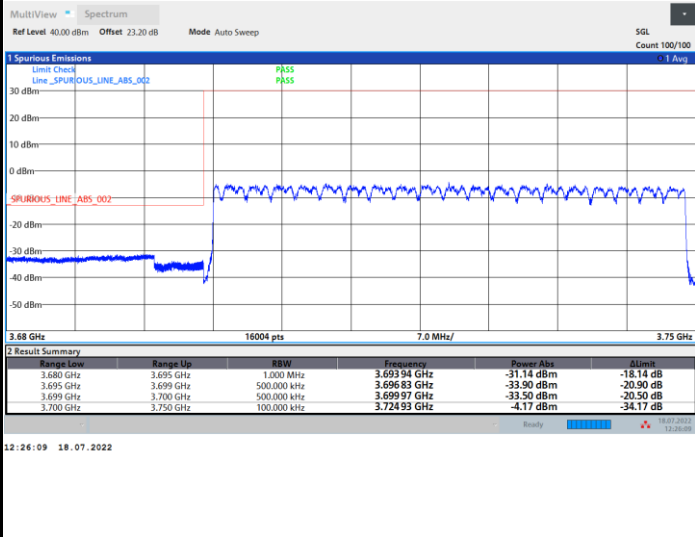
Highest Band Edge / Full RB



FR1 n77 / 50MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

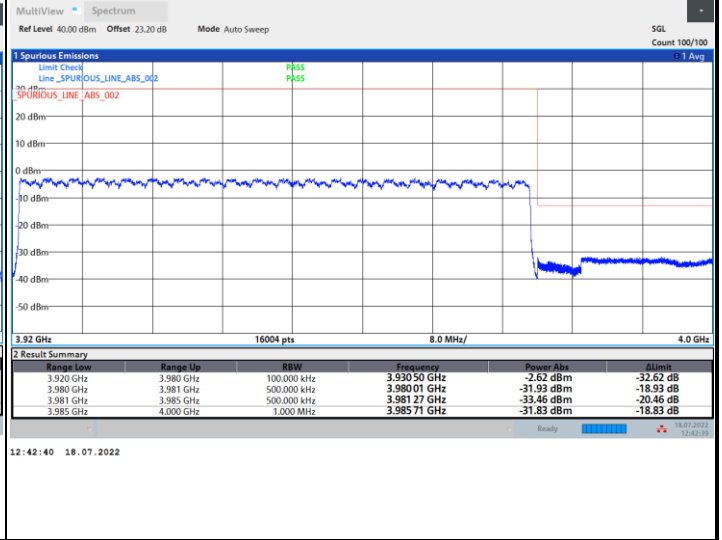
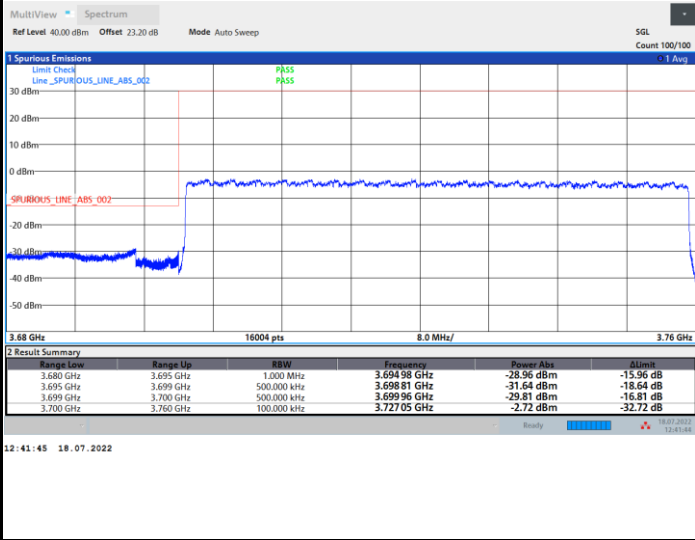




FR1 n77 / 60MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

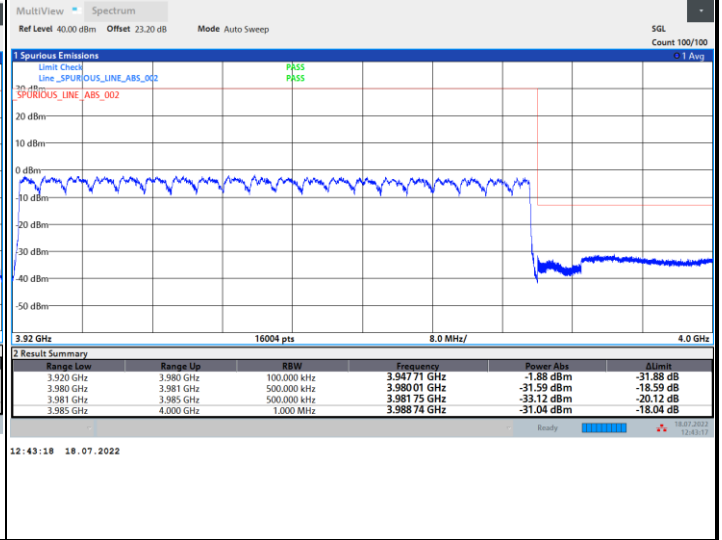
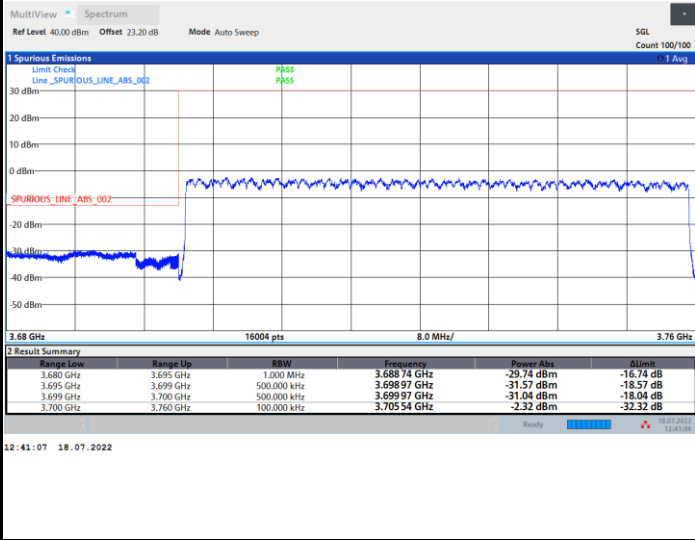
Highest Band Edge / Full RB



FR1 n77 / 60MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

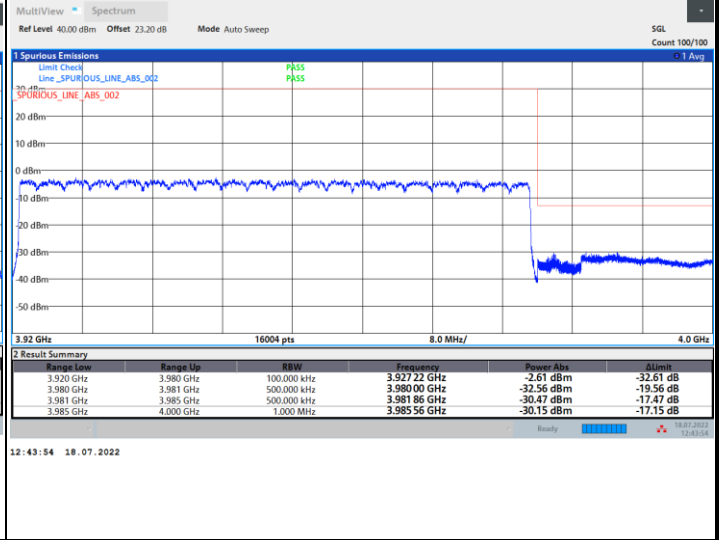
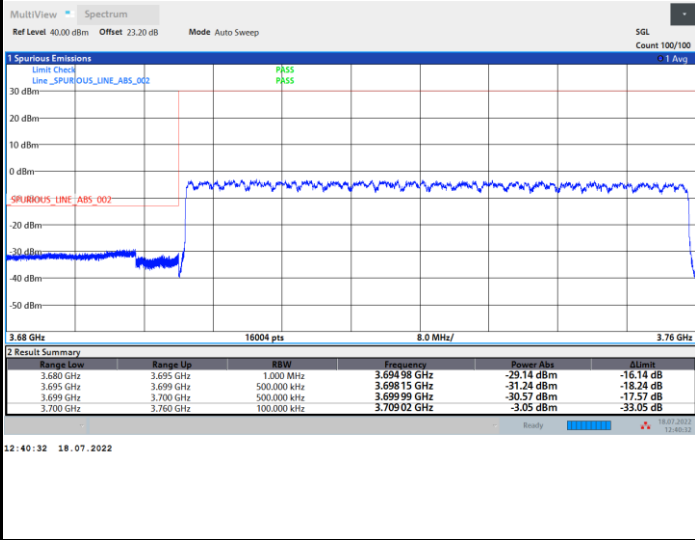




FR1 n77 / 60MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

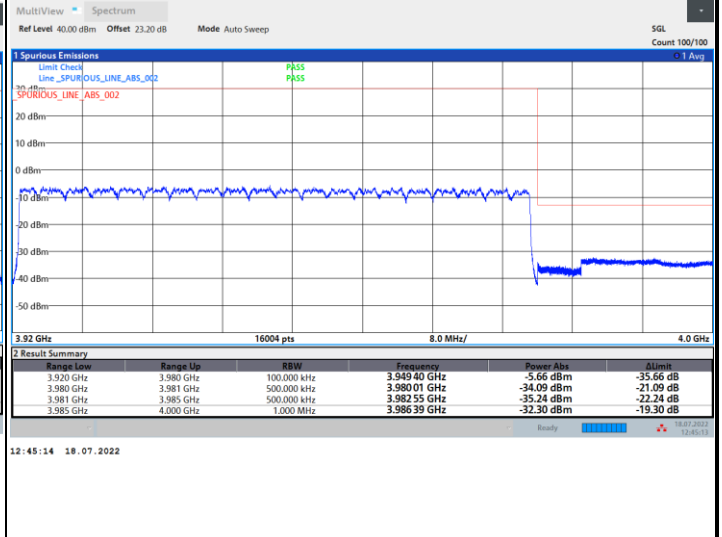
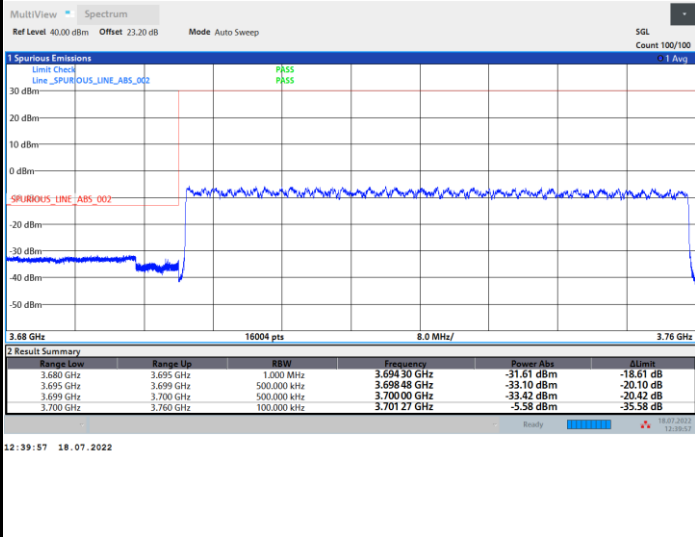
Highest Band Edge / Full RB



FR1 n77 / 60MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

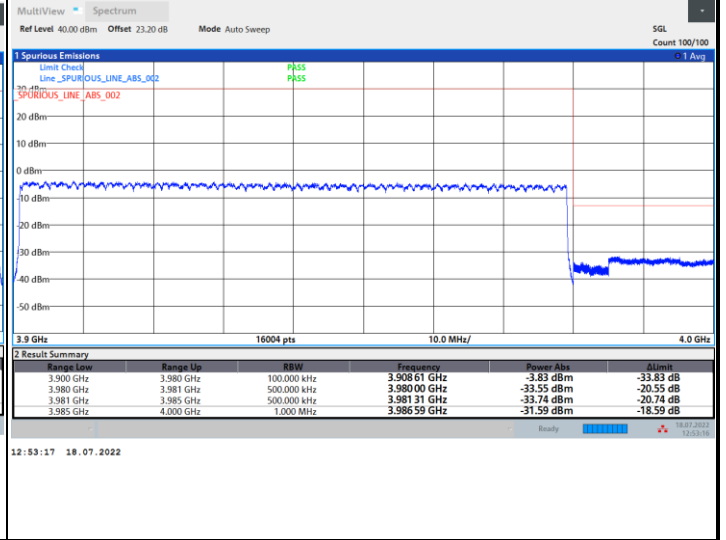
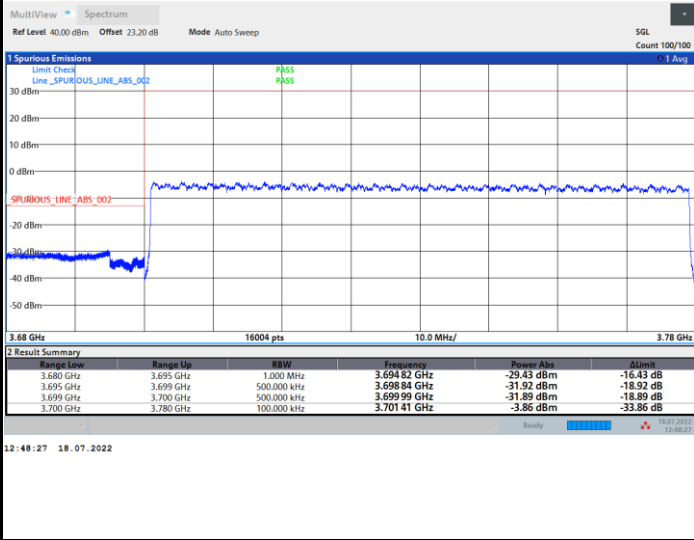




FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

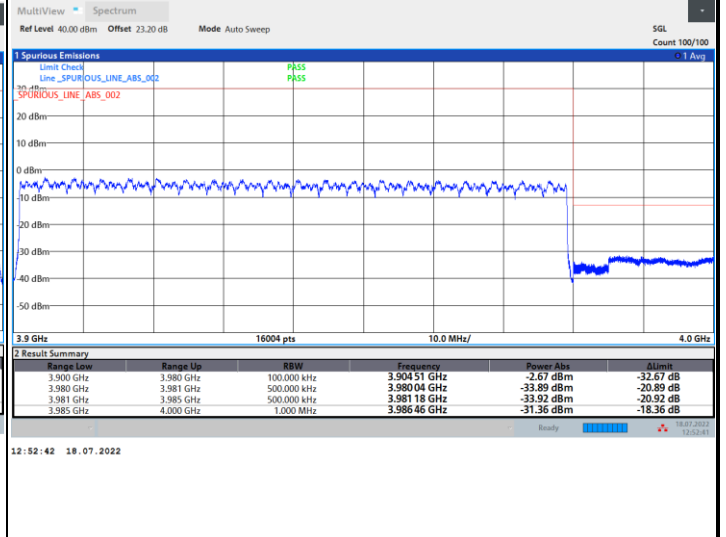
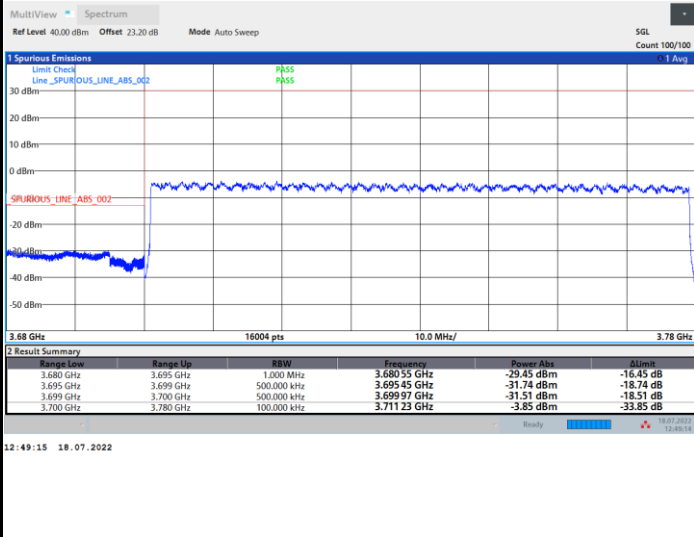
Highest Band Edge / Full RB



FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

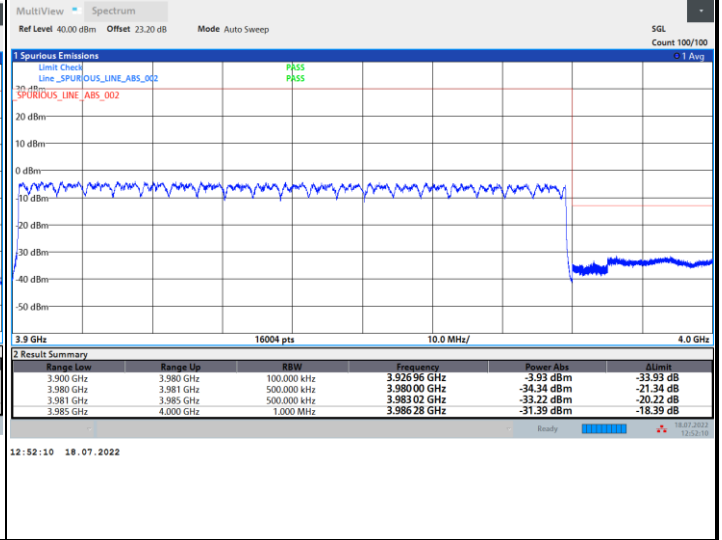
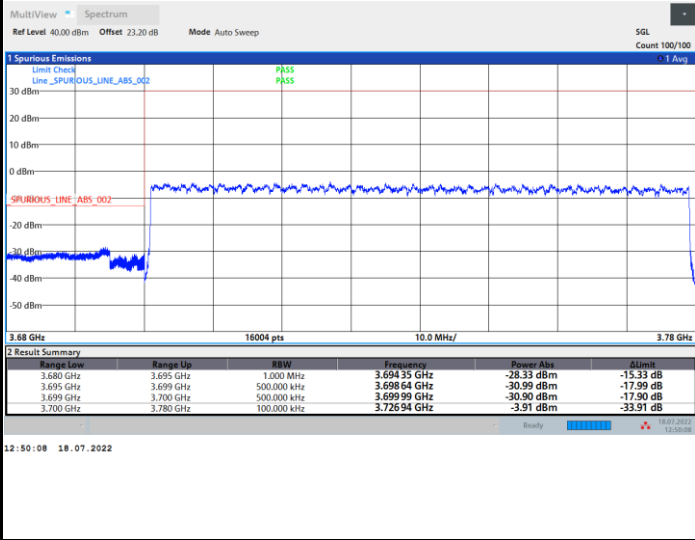




FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

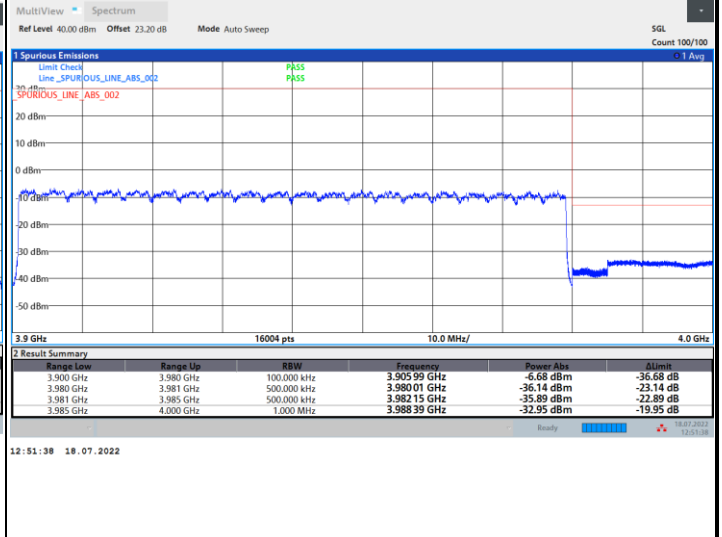
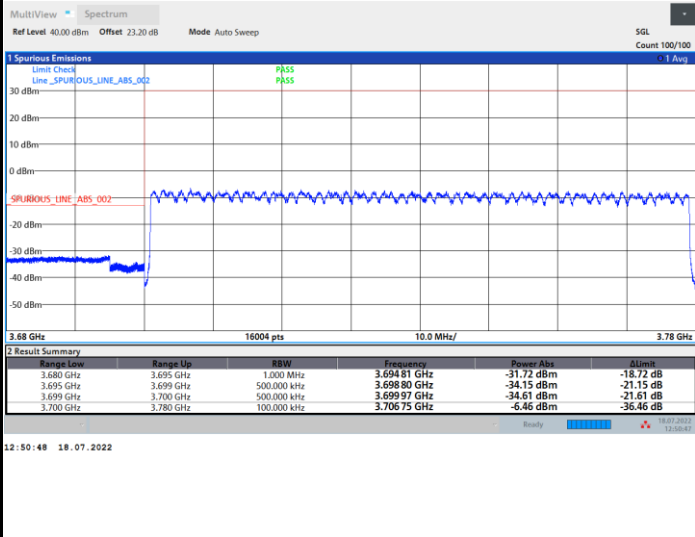
Highest Band Edge / Full RB



FR1 n77 / 80MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

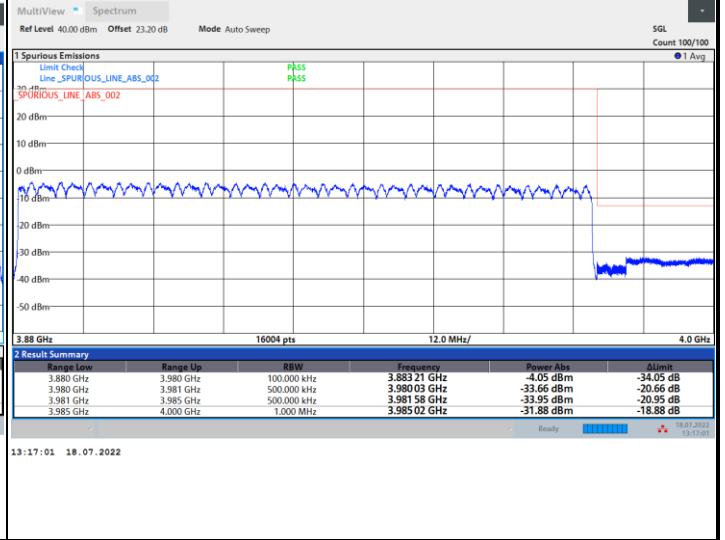
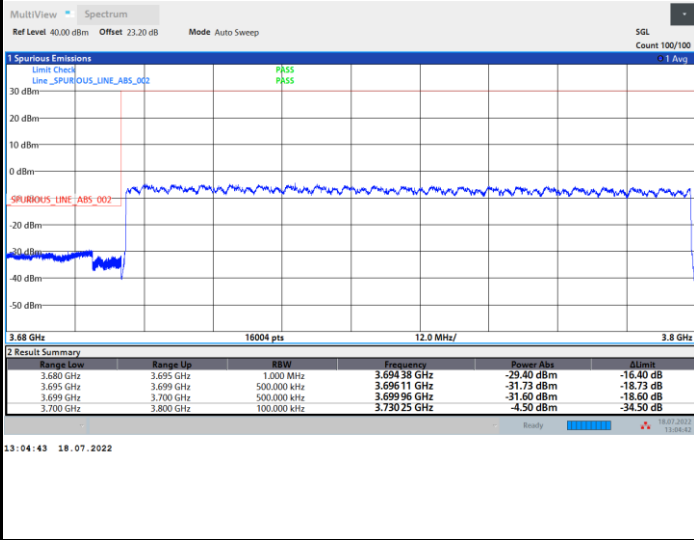




FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

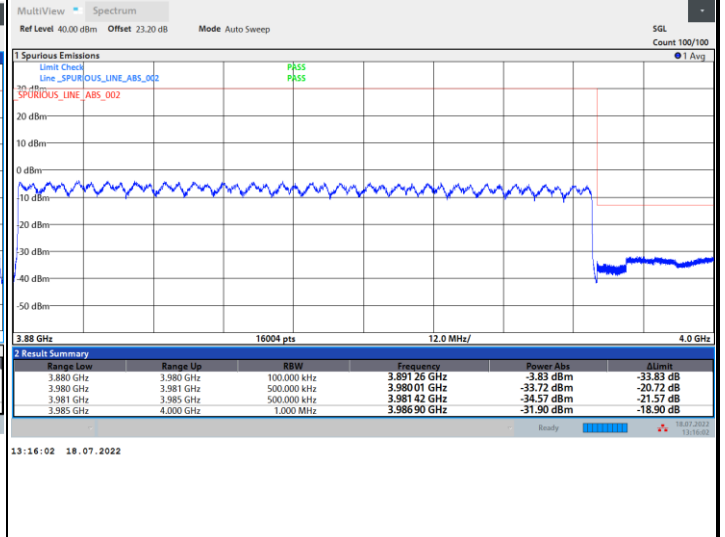
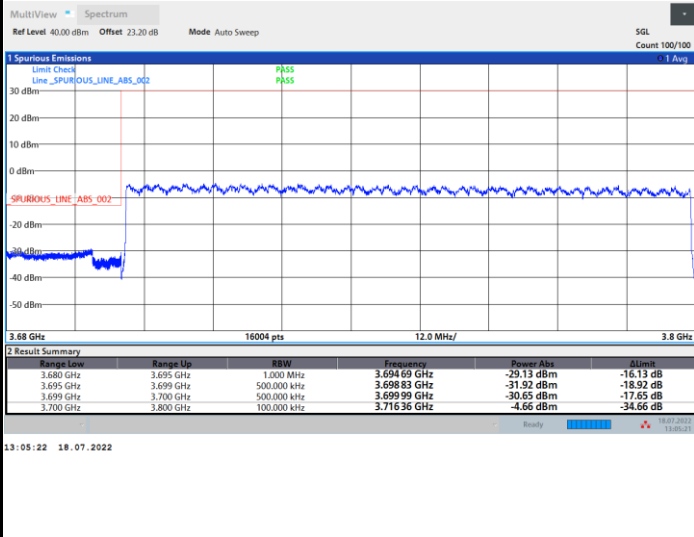
Highest Band Edge / Full RB



FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

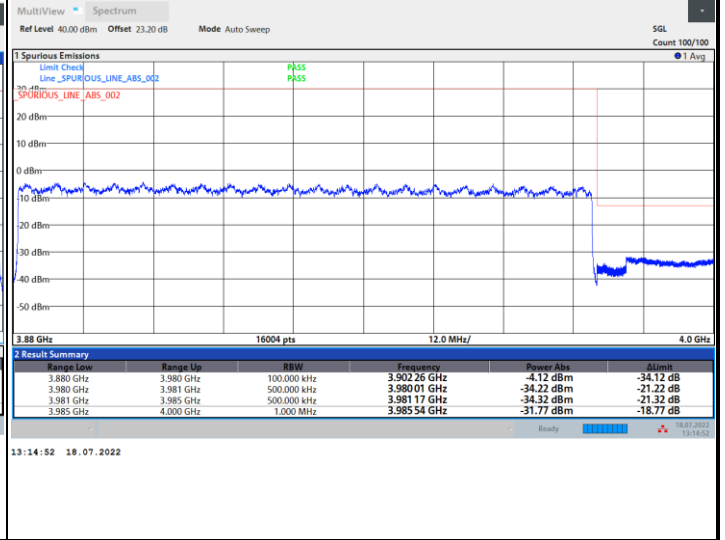
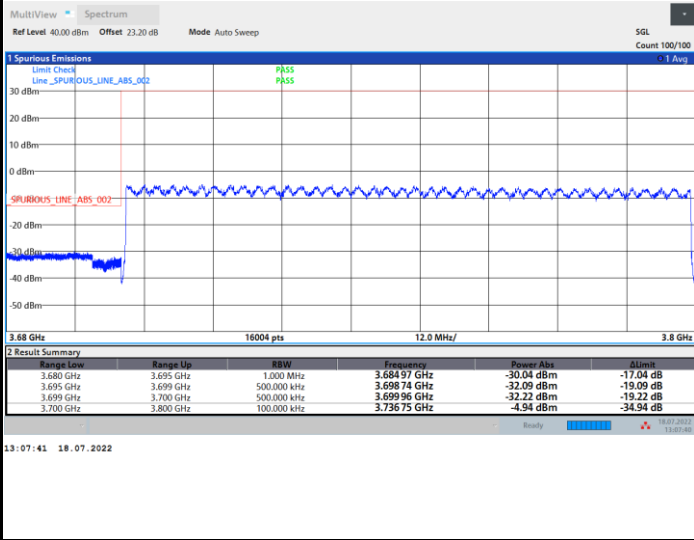




FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

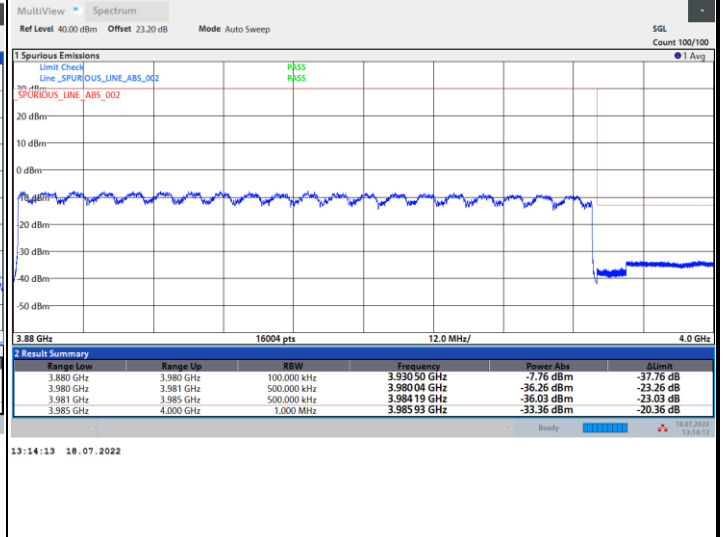
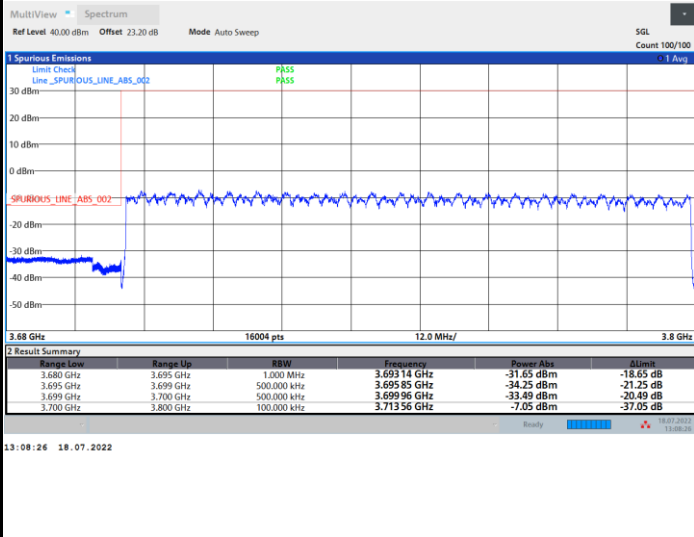
Highest Band Edge / Full RB



FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

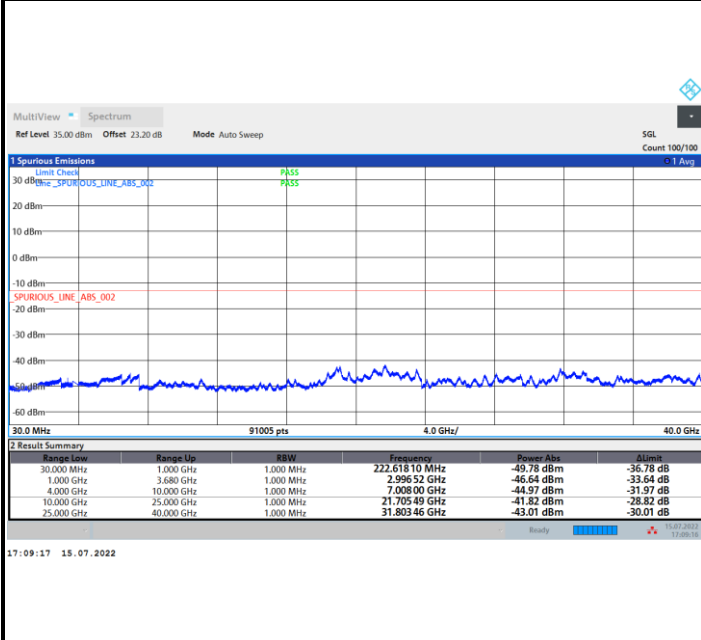




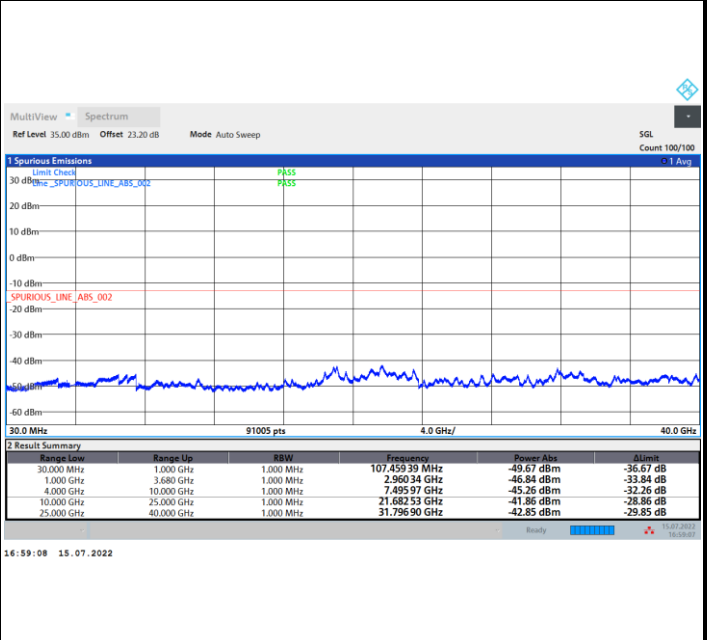
Conducted Spurious Emission

FR1 n77 / 20MHz / CP OFDM / QPSK / 1RB1

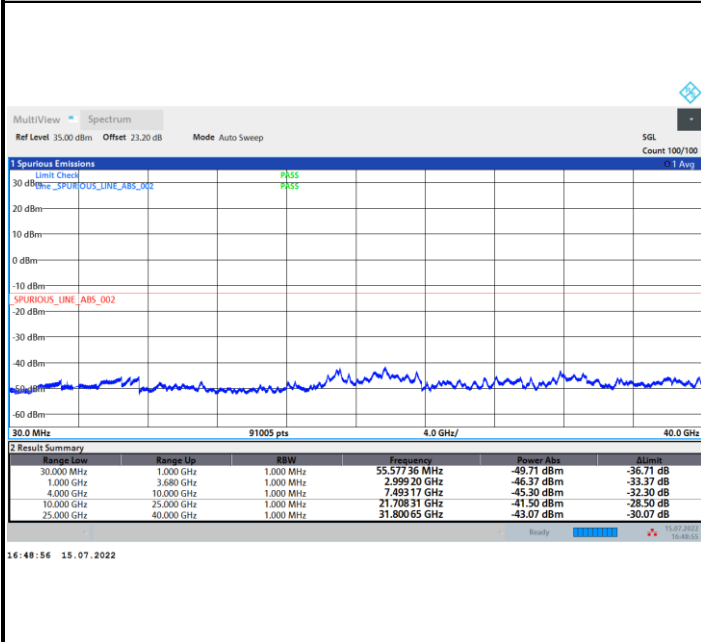
Lowest Channel



Middle Channel



Highest Channel





Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0023	

Note:

- 1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

<SISO Mode>

<Ant. 3>

5G NR n77 HPUE

5G NR n77_HPUE / 20MHz / PI/2 BPSK / 1RB1									
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	7403	-40.96	-13	-27.96	-71.87	-48.26	1.94	11.39	H
	11104	-35.20	-13	-22.20	-72.06	-41.43	2.24	10.62	H
	14805	-27.83	-13	-14.83	-70.87	-35.87	2.58	12.77	H
	18510	-62.63	-13	-49.63	-74.51	-74.83	3.24	17.59	H
	22206	-60.96	-13	-47.96	-76.69	-74.15	3.52	18.86	H
	25914	-58.69	-13	-45.69	-77.52	-71.70	3.92	19.08	H
	7403	-40.74	-13	-27.74	-71.75	-48.04	1.94	11.39	V
	11104	-34.81	-13	-21.81	-71.62	-41.04	2.24	10.62	V
	14805	-27.18	-13	-14.18	-71.33	-35.22	2.58	12.77	V
	18510	-60.95	-13	-47.95	-72.6	-73.15	3.24	17.59	V
	22206	-61.39	-13	-48.39	-76.72	-74.58	3.52	18.86	V
	25914	-54.04	-13	-41.04	-72.57	-67.05	3.92	19.08	V
Middle	7663	-40.00	-13	-27.00	-70.6	-47.59	1.89	11.63	H
	11494	-33.88	-13	-20.88	-71.15	-40.43	2.40	11.09	H
	15325	-29.43	-13	-16.43	-71.1	-39.27	2.64	14.63	H
	19154	-64.03	-13	-51.03	-75.86	-75.86	3.25	17.22	H
	22983	-59.95	-13	-46.95	-76.88	-72.84	3.57	18.61	H
	26824	-57.33	-13	-44.33	-77.58	-70.31	3.92	19.05	H
	7663	-40.45	-13	-27.45	-71.27	-48.04	1.89	11.63	V
	11494	-34.01	-13	-21.01	-71.4	-40.56	2.40	11.09	V
	15325	-28.04	-13	-15.04	-70.41	-37.88	2.64	14.63	V
	19154	-60.96	-13	-47.96	-72.58	-72.79	3.25	17.22	V
	22983	-49.66	-13	-36.66	-66.26	-62.55	3.57	18.61	V
	26824	-50.35	-13	-37.35	-70.21	-63.33	3.92	19.05	V



5G NR n77_HPUE / 20MHz / PI/2 BPSK / 1RB1									
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)
Highest	7923	-40.87	-13	-27.87	-72.04	-48.16	1.95	11.39	H
	11884	-32.06	-13	-19.06	-71.18	-39.83	2.56	12.48	H
	15845	-31.02	-13	-18.02	-71.27	-42.46	2.78	16.37	H
	19809	-63.76	-13	-50.76	-76.25	-75.85	3.20	17.44	H
	23772	-60.30	-13	-47.30	-77.6	-72.94	3.75	18.54	H
	27734	-56.95	-13	-43.95	-77.45	-70.44	3.95	19.59	H
	7923	-40.03	-13	-27.03	-71.55	-47.32	1.95	11.39	V
	11884	-32.83	-13	-19.83	-71.52	-40.60	2.56	12.48	V
	15845	-30.81	-13	-17.81	-71.28	-42.25	2.78	16.37	V
	19809	-60.78	-13	-47.78	-72.98	-72.87	3.20	17.44	V
	23772	-43.83	-13	-30.83	-60.77	-56.47	3.75	18.54	V
	27734	-50.50	-13	-37.50	-70.66	-63.99	3.95	19.59	V

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



<Ant. 0>

5G NR n77 HPUE

5G NR n77_HPUE / 20MHz / PI/2 BPSK / 1RB1									
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	7403	-40.92	-13	-27.92	-71.83	-48.22	1.94	11.39	H
	11104	-36.20	-13	-23.20	-73.06	-42.43	2.24	10.62	H
	14805	-28.49	-13	-15.49	-71.53	-36.53	2.58	12.77	H
	18510	-62.84	-13	-49.84	-74.72	-75.04	3.24	17.59	H
	22206	-61.39	-13	-48.39	-77.12	-74.58	3.52	18.86	H
	25914	-58.86	-13	-45.86	-77.69	-71.87	3.92	19.08	H
	7403	-41.17	-13	-28.17	-72.18	-48.47	1.94	11.39	V
	11104	-35.85	-13	-22.85	-72.66	-42.08	2.24	10.62	V
	14805	-27.71	-13	-14.71	-71.86	-35.75	2.58	12.77	V
	18510	-60.97	-13	-47.97	-72.62	-73.17	3.24	17.59	V
	22206	-60.77	-13	-47.77	-76.1	-73.96	3.52	18.86	V
	25914	-54.87	-13	-41.87	-73.4	-67.88	3.92	19.08	V
Middle	7663	-39.91	-13	-26.91	-70.51	-47.50	1.89	11.63	H
	11494	-34.58	-13	-21.58	-71.85	-41.13	2.40	11.09	H
	15325	-28.81	-13	-15.81	-70.48	-38.65	2.64	14.63	H
	19154	-63.93	-13	-50.93	-75.76	-75.76	3.25	17.22	H
	22983	-60.58	-13	-47.58	-77.51	-73.47	3.57	18.61	H
	26824	-57.14	-13	-44.14	-77.39	-70.12	3.92	19.05	H
	7663	-39.00	-13	-26.00	-69.82	-46.59	1.89	11.63	V
	11494	-34.54	-13	-21.54	-71.93	-41.09	2.40	11.09	V
	15325	-28.55	-13	-15.55	-70.92	-38.39	2.64	14.63	V
	19154	-62.98	-13	-49.98	-74.57	-74.81	3.25	17.22	V
	22983	-48.76	-13	-35.76	-65.36	-61.65	3.57	18.61	V
	26824	-52.67	-13	-39.67	-72.53	-65.65	3.92	19.05	V



5G NR n77_HPUE / 20MHz / PI/2 BPSK / 1RB1									
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)
Highest	7923	-41.23	-13	-28.23	-72.4	-48.52	1.95	11.39	H
	11884	-32.99	-13	-19.99	-72.11	-40.76	2.56	12.48	H
	15845	-31.17	-13	-18.17	-71.42	-42.61	2.78	16.37	H
	19809	-63.71	-13	-50.71	-76.2	-75.80	3.20	17.44	H
	23772	-60.10	-13	-47.10	-77.4	-72.74	3.75	18.54	H
	27723	-56.89	-13	-43.89	-77.4	-70.38	3.95	19.59	H
	7923	-40.58	-13	-27.58	-72.1	-47.87	1.95	11.39	V
	11884	-33.49	-13	-20.49	-72.18	-41.26	2.56	12.48	V
	15845	-30.73	-13	-17.73	-71.2	-42.17	2.78	16.37	V
	19809	-60.19	-13	-47.19	-72.39	-72.28	3.20	17.44	V
	23772	-47.11	-13	-34.11	-64.05	-59.75	3.75	18.54	V
	27723	-47.24	-13	-34.24	-67.41	-60.73	3.95	19.59	V

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



<Ant. 1>

5G NR n77 HPUE

5G NR n77_HPUE / 20MHz / PI/2 BPSK / 1RB1									
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	7403	-41.30	-13	-28.30	-72.21	-48.60	1.94	11.39	H
	11104	-36.06	-13	-23.06	-72.92	-42.29	2.24	10.62	H
	14805	-28.72	-13	-15.72	-71.76	-36.76	2.58	12.77	H
	18510	-63.10	-13	-50.10	-74.98	-75.30	3.24	17.59	H
	22206	-61.06	-13	-48.06	-76.79	-74.25	3.52	18.86	H
	25914	-58.27	-13	-45.27	-77.1	-71.28	3.92	19.08	H
	7403	-41.24	-13	-28.24	-72.25	-48.54	1.94	11.39	V
	11104	-36.20	-13	-23.20	-73.01	-42.43	2.24	10.62	V
	14805	-27.56	-13	-14.56	-71.71	-35.60	2.58	12.77	V
	18510	-62.49	-13	-49.49	-74.15	-74.69	3.24	17.59	V
	22206	-60.75	-13	-47.75	-76.08	-73.94	3.52	18.86	V
	25914	-53.89	-13	-40.89	-72.42	-66.90	3.92	19.08	V
Middle	7663	-41.31	-13	-28.31	-71.91	-48.90	1.89	11.63	H
	11494	-35.43	-13	-22.43	-72.7	-41.98	2.40	11.09	H
	15325	-29.71	-13	-16.71	-71.38	-39.55	2.64	14.63	H
	19154	-64.00	-13	-51.00	-75.83	-75.83	3.25	17.22	H
	22983	-59.34	-13	-46.34	-76.27	-72.23	3.57	18.61	H
	26824	-56.92	-13	-43.92	-77.17	-69.90	3.92	19.05	H
	7663	-40.28	-13	-27.28	-71.1	-47.87	1.89	11.63	V
	11494	-35.23	-13	-22.23	-72.62	-41.78	2.40	11.09	V
	15325	-28.45	-13	-15.45	-70.82	-38.29	2.64	14.63	V
	19154	-62.68	-13	-49.68	-74.27	-74.51	3.25	17.22	V
	22983	-50.77	-13	-37.77	-67.34	-63.66	3.57	18.61	V
	26824	-53.45	-13	-40.45	-73.31	-66.43	3.92	19.05	V



5G NR n77_HPUE / 20MHz / PI/2 BPSK / 1RB1									
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)
Highest	7923	-41.00	-13	-28.00	-72.17	-48.29	1.95	11.39	H
	11884	-33.14	-13	-20.14	-72.26	-40.91	2.56	12.48	H
	15845	-30.75	-13	-17.75	-71	-42.19	2.78	16.37	H
	19809	-63.80	-13	-50.80	-76.29	-75.89	3.20	17.44	H
	23772	-60.24	-13	-47.24	-77.54	-72.88	3.75	18.54	H
	27734	-56.59	-13	-43.59	-77.09	-70.08	3.95	19.59	H
	7923	-40.82	-13	-27.82	-72.34	-48.11	1.95	11.39	V
	11884	-33.30	-13	-20.30	-71.99	-41.07	2.56	12.48	V
	15845	-30.80	-13	-17.80	-71.27	-42.24	2.78	16.37	V
	19809	-57.76	-13	-44.76	-69.96	-69.85	3.20	17.44	V
	23772	-47.98	-13	-34.98	-64.92	-60.62	3.75	18.54	V
	27734	-52.83	-13	-39.83	-72.99	-66.32	3.95	19.59	V

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



<Ant. 2>

5G NR n77 HPUE

5G NR n77_HPUE / 20MHz / PI/2 BPSK / 1RB1									
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	7403	-41.32	-13	-28.32	-72.23	-48.62	1.94	11.39	H
	11104	-36.16	-13	-23.16	-73.02	-42.39	2.24	10.62	H
	14805	-28.91	-13	-15.91	-71.95	-36.95	2.58	12.77	H
	18510	-62.77	-13	-49.77	-74.65	-74.97	3.24	17.59	H
	22206	-60.83	-13	-47.83	-76.56	-74.02	3.52	18.86	H
	25914	-58.04	-13	-45.04	-76.87	-71.05	3.92	19.08	H
	7403	-41.43	-13	-28.43	-72.44	-48.73	1.94	11.39	V
	11104	-36.34	-13	-23.34	-73.15	-42.57	2.24	10.62	V
	14805	-27.67	-13	-14.67	-71.82	-35.71	2.58	12.77	V
	18510	-62.28	-13	-49.28	-73.93	-74.48	3.24	17.59	V
	22206	-61.37	-13	-48.37	-76.7	-74.56	3.52	18.86	V
	25914	-56.17	-13	-43.17	-74.7	-69.18	3.92	19.08	V
Middle	7663	-41.63	-13	-28.63	-72.23	-49.22	1.89	11.63	H
	11494	-35.44	-13	-22.44	-72.71	-41.99	2.40	11.09	H
	15325	-29.56	-13	-16.56	-71.23	-39.40	2.64	14.63	H
	19154	-62.64	-13	-49.64	-74.47	-74.47	3.25	17.22	H
	22983	-58.91	-13	-45.91	-75.85	-71.80	3.57	18.61	H
	26824	-57.02	-13	-44.02	-77.27	-70.00	3.92	19.05	H
	7663	-41.16	-13	-28.16	-71.98	-48.75	1.89	11.63	V
	11494	-35.34	-13	-22.34	-72.73	-41.89	2.40	11.09	V
	15325	-29.00	-13	-16.00	-71.37	-38.84	2.64	14.63	V
	19154	-60.98	-13	-47.98	-72.57	-72.81	3.25	17.22	V
	22983	-50.09	-13	-37.09	-66.69	-62.98	3.57	18.61	V
	26824	-54.88	-13	-41.88	-74.74	-67.86	3.92	19.05	V



5G NR n77_HPUE / 20MHz / PI/2 BPSK / 1RB1									
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)
Highest	7923	-41.00	-13	-28.00	-72.17	-48.29	1.95	11.39	H
	11884	-33.23	-13	-20.23	-72.35	-41.00	2.56	12.48	H
	15845	-30.95	-13	-17.95	-71.2	-42.39	2.78	16.37	H
	19809	-63.39	-13	-50.39	-75.88	-75.48	3.20	17.44	H
	23772	-56.00	-13	-43.00	-73.3	-68.64	3.75	18.54	H
	27734	-56.00	-13	-43.00	-76.5	-69.49	3.95	19.59	H
	7923	-40.69	-13	-27.69	-72.21	-47.98	1.95	11.39	V
	11884	-33.04	-13	-20.04	-71.73	-40.81	2.56	12.48	V
	15845	-31.12	-13	-18.12	-71.59	-42.56	2.78	16.37	V
	19809	-61.86	-13	-48.86	-74.06	-73.95	3.20	17.44	V
	23772	-54.28	-13	-41.28	-71.22	-66.92	3.75	18.54	V
	27734	-47.32	-13	-34.32	-67.48	-60.81	3.95	19.59	V

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



<Ant. 0 + Ant. 1>

EN-DC 5A-n77A HPUE

EN-DC 5A-n77A_HPUE / 20MHz / PI/2 BPSK / 1RB1									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7663	-39.51	-13	-26.51	-70.11	-47.10	1.89	11.63	H
	11494	-33.96	-13	-20.96	-71.23	-40.51	2.40	11.09	H
	15325	-28.83	-13	-15.83	-70.5	-38.67	2.64	14.63	H
	18956	-61.55	-13	-48.55	-73.12	-73.29	3.26	17.14	H
	22748	-58.82	-13	-45.82	-75.35	-71.82	3.55	18.70	H
	26539	-57.08	-13	-44.08	-76.77	-69.66	3.93	18.65	H
									H
	7663	-37.74	-13	-24.74	-68.56	-45.33	1.89	11.63	V
	11494	-34.62	-13	-21.62	-72.01	-41.17	2.40	11.09	V
	15325	-28.65	-13	-15.65	-71.02	-38.49	2.64	14.63	V
	18956	-62.72	-13	-49.72	-74.06	-74.46	3.26	17.14	V
	22748	-60.00	-13	-47.00	-76.15	-73.00	3.55	18.70	V
	26539	-57.71	-13	-44.71	-77.02	-70.29	3.93	18.65	V
									V

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



EN-DC 12A-n77A HPUE

EN-DC 12A-n77A_HPUE / 20MHz / PI/2 BPSK / 1RB1									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7663	-40.32	-13	-27.32	-70.92	-47.91	1.89	11.63	H
	11494	-34.97	-13	-21.97	-72.24	-41.52	2.40	11.09	H
	15325	-29.24	-13	-16.24	-70.91	-39.08	2.64	14.63	H
	18956	-62.55	-13	-49.55	-74.12	-74.29	3.26	17.14	H
	22748	-59.05	-13	-46.05	-75.58	-72.05	3.55	18.70	H
	26539	-57.15	-13	-44.15	-76.84	-69.73	3.93	18.65	H
									H
	7663	-38.12	-13	-25.12	-68.94	-45.71	1.89	11.63	V
	11494	-34.73	-13	-21.73	-72.12	-41.28	2.40	11.09	V
	15325	-28.73	-13	-15.73	-71.1	-38.57	2.64	14.63	V
	18956	-62.75	-13	-49.75	-74.09	-74.49	3.26	17.14	V
	22748	-60.02	-13	-47.02	-76.17	-73.02	3.55	18.70	V
	26539	-57.73	-13	-44.73	-77.04	-70.31	3.93	18.65	V
									V

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



EN-DC 13A-n77A HPUE

EN-DC 13A-n77A_HPUE / 20MHz / PI/2 BPSK / 1RB1									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7663	-40.06	-13	-27.06	-70.66	-47.65	1.89	11.63	H
	11494	-33.76	-13	-20.76	-71.03	-40.31	2.40	11.09	H
	15325	-28.75	-13	-15.75	-70.42	-38.59	2.64	14.63	H
	18956	-62.30	-13	-49.30	-73.87	-74.04	3.26	17.14	H
	22748	-59.09	-13	-46.09	-75.62	-72.09	3.55	18.70	H
	26539	-57.30	-13	-44.30	-76.99	-69.88	3.93	18.65	H
									H
	7663	-36.32	-13	-23.32	-67.14	-43.91	1.89	11.63	V
	11494	-34.01	-13	-21.01	-71.4	-40.56	2.40	11.09	V
	15325	-28.33	-13	-15.33	-70.7	-38.17	2.64	14.63	V
	18956	-62.86	-13	-49.86	-74.2	-74.60	3.26	17.14	V
	22748	-60.11	-13	-47.11	-76.26	-73.11	3.55	18.70	V
	26539	-57.86	-13	-44.86	-77.17	-70.44	3.93	18.65	V
									V

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



EN-DC 14A-n77A HPUE

EN-DC 14A-n77A_HPUE / 20MHz / PI/2 BPSK / 1RB1									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7663	-40.31	-13	-27.31	-70.91	-47.90	1.89	11.63	H
	11494	-34.59	-13	-21.59	-71.86	-41.14	2.40	11.09	H
	15325	-29.08	-13	-16.08	-70.75	-38.92	2.64	14.63	H
	18956	-62.03	-13	-49.03	-73.6	-73.77	3.26	17.14	H
	22748	-58.82	-13	-45.82	-75.35	-71.82	3.55	18.70	H
	26539	-57.39	-13	-44.39	-77.08	-69.97	3.93	18.65	H
									H
	7663	-38.23	-13	-25.23	-69.05	-45.82	1.89	11.63	V
	11494	-34.63	-13	-21.63	-72.02	-41.18	2.40	11.09	V
	15325	-28.31	-13	-15.31	-70.68	-38.15	2.64	14.63	V
	18956	-62.64	-13	-49.64	-73.98	-74.38	3.26	17.14	V
	22748	-59.80	-13	-46.80	-75.95	-72.80	3.55	18.70	V
	26539	-57.40	-13	-44.40	-76.71	-69.98	3.93	18.65	V
									V

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



<Ant. 2 + Ant. 3>

EN-DC 2A-n77A HPUE

EN-DC 2A-n77A_HPUE / 20MHz / PI/2 BPSK / 1RB1									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7663	-40.81	-13	-27.81	-71.41	-48.40	1.89	11.63	H
	11494	-35.13	-13	-22.13	-72.4	-41.68	2.40	11.09	H
	15325	-29.03	-13	-16.03	-70.7	-38.87	2.64	14.63	H
	18956	-62.23	-13	-49.23	-73.8	-73.97	3.26	17.14	H
	22748	-58.93	-13	-45.93	-75.46	-71.93	3.55	18.70	H
	26539	-57.11	-13	-44.11	-76.8	-69.69	3.93	18.65	H
									H
	7663	-40.69	-13	-27.69	-71.51	-48.28	1.89	11.63	V
	11494	-34.38	-13	-21.38	-71.77	-40.93	2.40	11.09	V
	15325	-28.74	-13	-15.74	-71.11	-38.58	2.64	14.63	V
	18956	-63.15	-13	-50.15	-74.49	-74.89	3.26	17.14	V
	22748	-59.55	-13	-46.55	-75.7	-72.55	3.55	18.70	V
	26539	-57.98	-13	-44.98	-77.29	-70.56	3.93	18.65	V
									V

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



EN-DC 30A-n77A HPUE

EN-DC 30A-n77A_HPUE / 20MHz / PI/2 BPSK / 1RB1									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7663	-41.02	-13	-28.02	-71.62	-48.61	1.89	11.63	H
	11494	-35.04	-13	-22.04	-72.31	-41.59	2.40	11.09	H
	15325	-29.04	-13	-16.04	-70.71	-38.88	2.64	14.63	H
	18956	-62.28	-13	-49.28	-73.85	-74.02	3.26	17.14	H
	22748	-59.14	-13	-46.14	-75.67	-72.14	3.55	18.70	H
	26539	-57.13	-13	-44.13	-76.82	-69.71	3.93	18.65	H
									H
	7663	-40.57	-13	-27.57	-71.39	-48.16	1.89	11.63	V
	11494	-35.09	-13	-22.09	-72.48	-41.64	2.40	11.09	V
	15325	-28.76	-13	-15.76	-71.13	-38.60	2.64	14.63	V
	18956	-62.95	-13	-49.95	-74.29	-74.69	3.26	17.14	V
	22748	-60.01	-13	-47.01	-76.16	-73.01	3.55	18.70	V
	26539	-57.70	-13	-44.70	-77.01	-70.28	3.93	18.65	V
									V

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



EN-DC 41A-n77A HPUE

EN-DC 41A-n77A_HPUE / 20MHz / PI/2 BPSK / 1RB1									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7663	-40.52	-13	-27.52	-71.12	-48.11	1.89	11.63	H
	11494	-34.35	-13	-21.35	-71.62	-40.90	2.40	11.09	H
	15325	-28.98	-13	-15.98	-70.65	-38.82	2.64	14.63	H
	18956	-62.32	-13	-49.32	-73.89	-74.06	3.26	17.14	H
	22748	-58.85	-13	-45.85	-75.38	-71.85	3.55	18.70	H
	26539	-57.42	-13	-44.42	-77.11	-70.00	3.93	18.65	H
									H
	7663	-40.67	-13	-27.67	-71.49	-48.26	1.89	11.63	V
	11494	-34.58	-13	-21.58	-71.97	-41.13	2.40	11.09	V
	15325	-28.35	-13	-15.35	-70.72	-38.19	2.64	14.63	V
	18956	-63.18	-13	-50.18	-74.52	-74.92	3.26	17.14	V
	22748	-59.94	-13	-46.94	-76.09	-72.94	3.55	18.70	V
	26539	-57.84	-13	-44.84	-77.15	-70.42	3.93	18.65	V
									V

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



EN-DC 66A-n77A HPUE

EN-DC 66A-n77A_HPUE / 20MHz / PI/2 BPSK / 1RB1									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7663	-41.01	-13	-28.01	-71.61	-48.60	1.89	11.63	H
	11494	-34.80	-13	-21.80	-72.07	-41.35	2.40	11.09	H
	15325	-29.50	-13	-16.50	-71.17	-39.34	2.64	14.63	H
	18956	-62.67	-13	-49.67	-74.24	-74.41	3.26	17.14	H
	22748	-58.70	-13	-45.70	-75.23	-71.70	3.55	18.70	H
	26539	-57.32	-13	-44.32	-77.01	-69.90	3.93	18.65	H
									H
	7663	-40.59	-13	-27.59	-71.41	-48.18	1.89	11.63	V
	11494	-34.54	-13	-21.54	-71.93	-41.09	2.40	11.09	V
	15325	-28.38	-13	-15.38	-70.75	-38.22	2.64	14.63	V
	18956	-63.19	-13	-50.19	-74.53	-74.93	3.26	17.14	V
	22748	-59.67	-13	-46.67	-75.82	-72.67	3.55	18.70	V
	26539	-57.88	-13	-44.88	-77.19	-70.46	3.93	18.65	V
									V

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



<MIMO Mode>

MIMO <Ant. 3+1>

5G NR n77 UL MIMO

5G NR n77/ 20MHz / QPSK / 1RB1									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7663	-41.07	-13	-28.07	-71.68	-48.66	1.89	11.63	H
	11494	-34.58	-13	-21.58	-72.12	-41.13	2.40	11.09	H
	15325	-29.23	-13	-16.23	-70.95	-39.07	2.64	14.63	H
	19154	-64.71	-13	-51.71	-75.58	-76.54	3.25	17.22	H
	22983	-61.17	-13	-48.17	-77.19	-74.06	3.57	18.61	H
	26824	-57.14	-13	-44.14	-76.86	-70.12	3.92	19.05	H
									H
	7663	-36.32	-13	-23.32	-67.15	-43.91	1.89	11.63	V
	11494	-34.51	-13	-21.51	-72.17	-41.06	2.40	11.09	V
	15325	-28.62	-13	-15.62	-71.04	-38.46	2.64	14.63	V
	19154	-65.21	-13	-52.21	-75.84	-77.04	3.25	17.22	V
	22983	-60.98	-13	-47.98	-76.67	-73.87	3.57	18.61	V
	26824	-57.38	-13	-44.38	-76.71	-70.36	3.92	19.05	V
									V

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



MIMO <Ant. 0+1>

5G NR n77 UL MIMO

5G NR n77/ 20MHz / QPSK / 1RB1									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7663	-40.11	-13	-27.11	-70.72	-47.70	1.89	11.63	H
	11494	-33.67	-13	-20.67	-71.21	-40.22	2.40	11.09	H
	15325	-29.10	-13	-16.10	-70.82	-38.94	2.64	14.63	H
	19154	-64.06	-13	-51.06	-74.93	-75.89	3.25	17.22	H
	22983	-59.96	-13	-46.96	-75.98	-72.85	3.57	18.61	H
	26824	-56.71	-13	-43.71	-76.43	-69.69	3.92	19.05	H
									H
	7663	-37.66	-13	-24.66	-68.49	-45.25	1.89	11.63	V
	11494	-33.77	-13	-20.77	-71.43	-40.32	2.40	11.09	V
	15325	-27.98	-13	-14.98	-70.4	-37.82	2.64	14.63	V
	19154	-64.36	-13	-51.36	-74.99	-76.19	3.25	17.22	V
	22983	-60.07	-13	-47.07	-75.76	-72.96	3.57	18.61	V
	26824	-57.18	-13	-44.18	-76.51	-70.16	3.92	19.05	V
									V

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



MIMO <Ant. 1+3>

5G NR n77 UL MIMO

5G NR n77/ 20MHz / QPSK / 1RB1									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7663	-40.98	-13	-27.98	-71.59	-48.57	1.89	11.63	H
	11494	-34.64	-13	-21.64	-72.18	-41.19	2.40	11.09	H
	15325	-29.35	-13	-16.35	-71.07	-39.19	2.64	14.63	H
	19154	-64.94	-13	-51.94	-75.81	-76.77	3.25	17.22	H
	22983	-61.04	-13	-48.04	-77.06	-73.93	3.57	18.61	H
	26824	-56.86	-13	-43.86	-76.58	-69.84	3.92	19.05	H
									H
	7663	-40.86	-13	-27.86	-71.69	-48.45	1.89	11.63	V
	11494	-34.40	-13	-21.40	-72.06	-40.95	2.40	11.09	V
	15325	-28.79	-13	-15.79	-71.21	-38.63	2.64	14.63	V
	19154	-64.96	-13	-51.96	-75.59	-76.79	3.25	17.22	V
	22983	-61.33	-13	-48.33	-77.02	-74.22	3.57	18.61	V
	26824	-57.26	-13	-44.26	-76.59	-70.24	3.92	19.05	V
									V

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



MIMO <Ant. 2+1>

5G NR n77 UL MIMO

5G NR n77/ 20MHz / QPSK / 1RB1									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7663	-40.98	-13	-27.98	-71.59	-48.57	1.89	11.63	H
	11494	-34.41	-13	-21.41	-71.95	-40.96	2.40	11.09	H
	15325	-29.40	-13	-16.40	-71.12	-39.24	2.64	14.63	H
	19154	-65.24	-13	-52.24	-76.11	-77.07	3.25	17.22	H
	22983	-60.98	-13	-47.98	-77	-73.87	3.57	18.61	H
	26824	-56.98	-13	-43.98	-76.7	-69.96	3.92	19.05	H
									H
	7663	-40.73	-13	-27.73	-71.56	-48.32	1.89	11.63	V
	11494	-34.56	-13	-21.56	-72.22	-41.11	2.40	11.09	V
	15325	-28.64	-13	-15.64	-71.06	-38.48	2.64	14.63	V
	19154	-64.74	-13	-51.74	-75.37	-76.57	3.25	17.22	V
	22983	-61.38	-13	-48.38	-77.07	-74.27	3.57	18.61	V
	26824	-57.37	-13	-44.37	-76.7	-70.35	3.92	19.05	V
									V

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