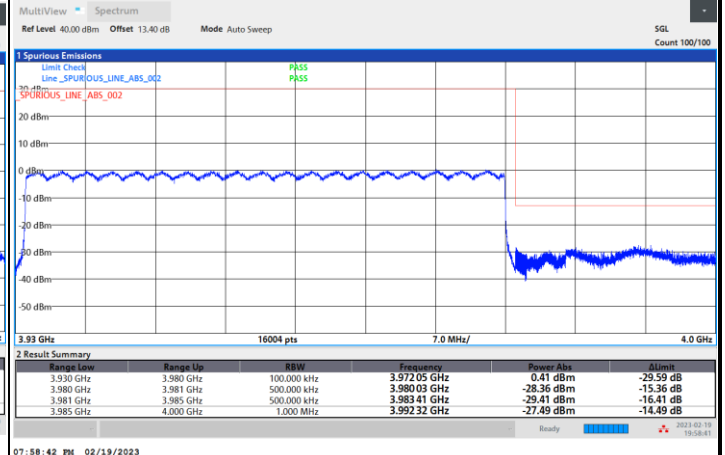
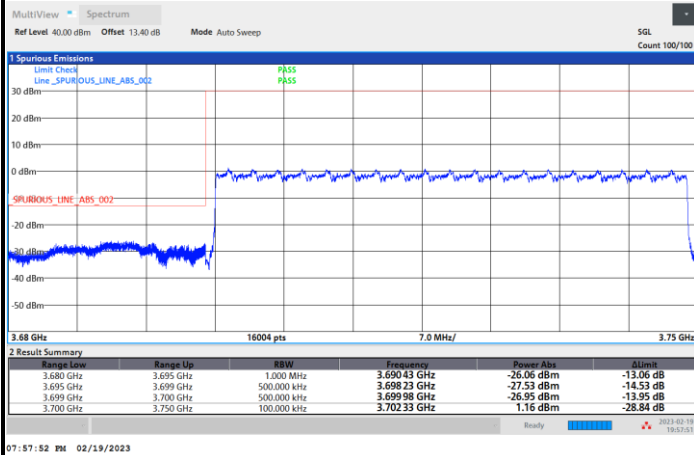




FR1 n77 / 50MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

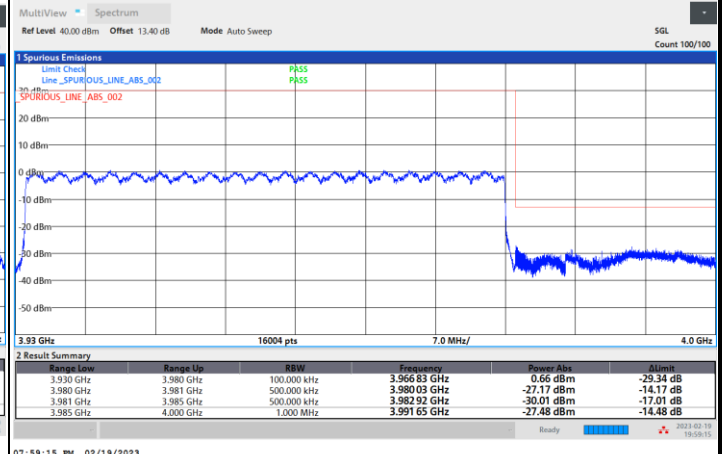
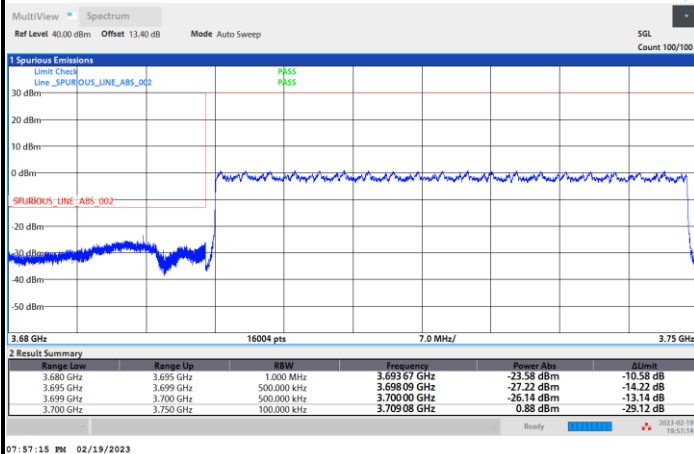
Highest Band Edge / Full RB



FR1 n77 / 50MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

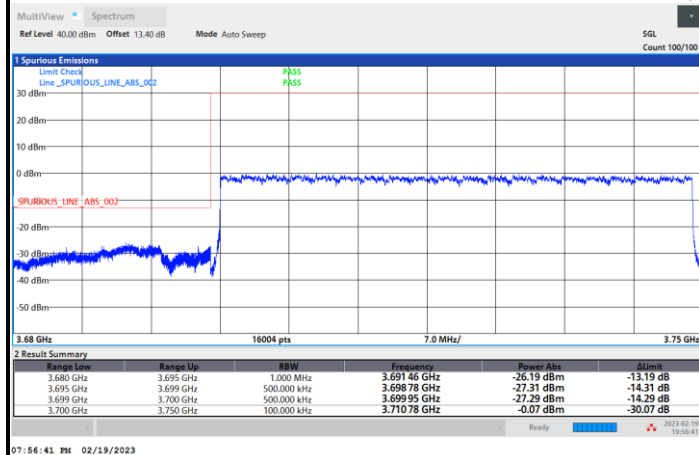
Highest Band Edge / Full RB



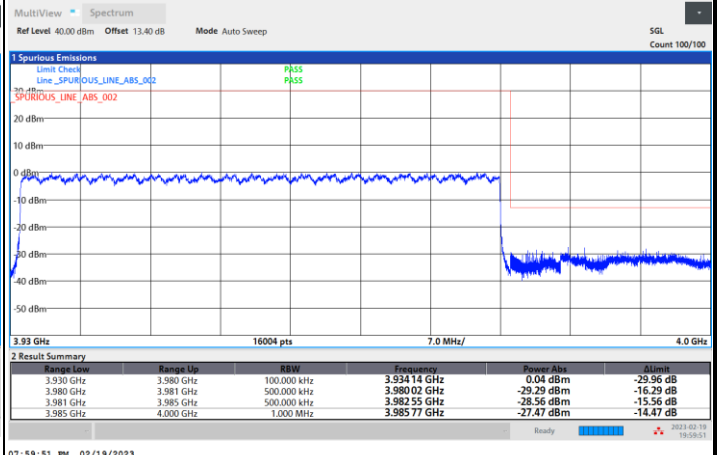


FR1 n77 / 50MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

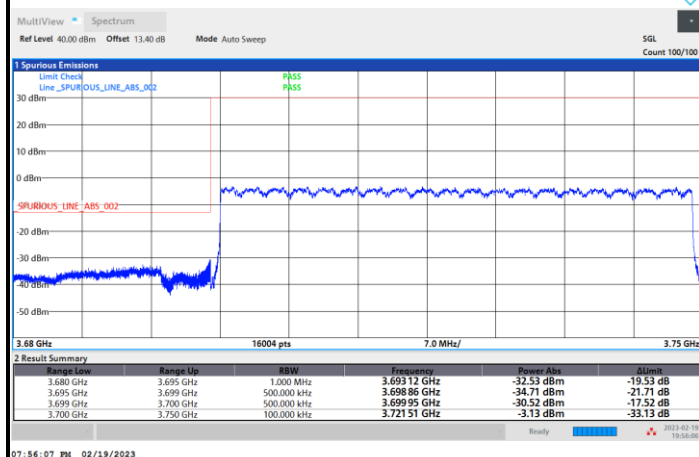


Highest Band Edge / Full RB

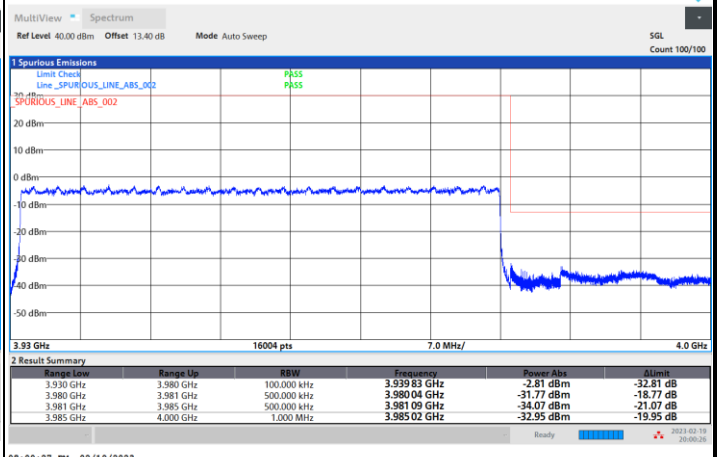


FR1 n77 / 50MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

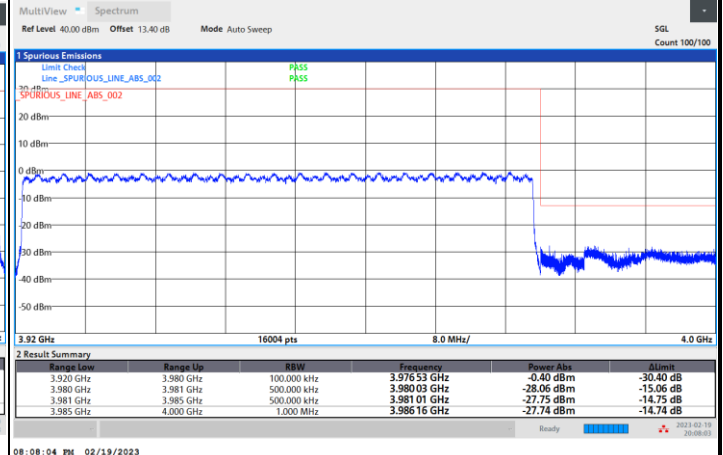
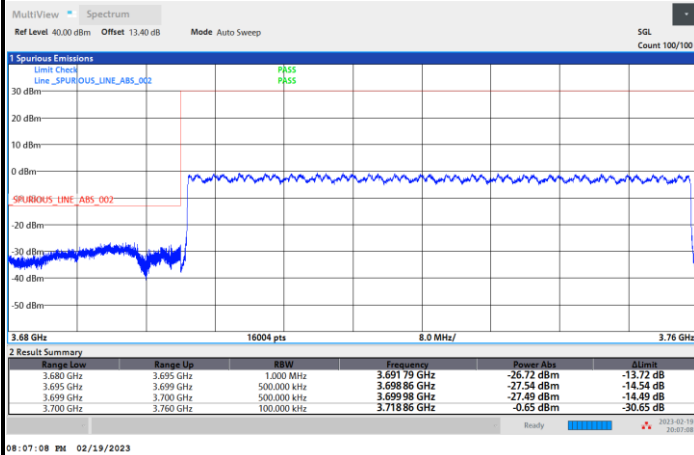




FR1 n77 / 60MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

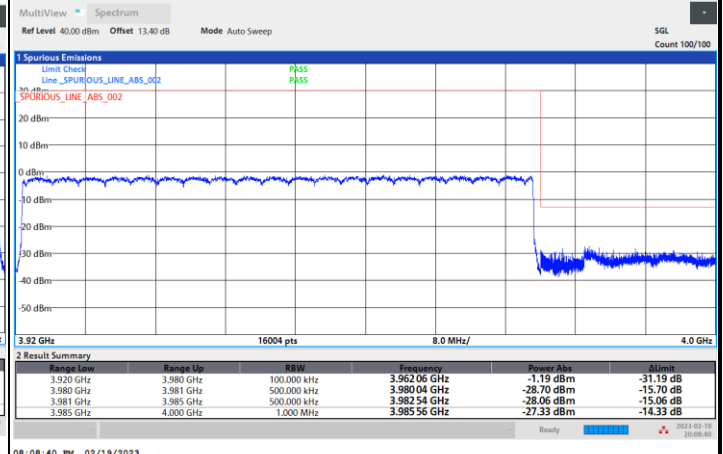
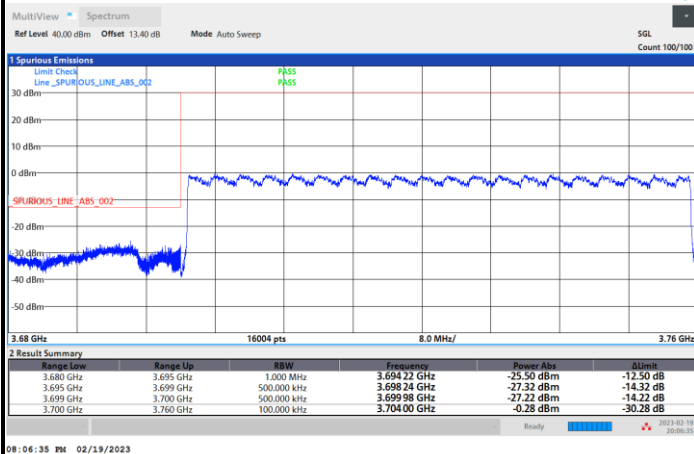
Highest Band Edge / Full RB



FR1 n77 / 60MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

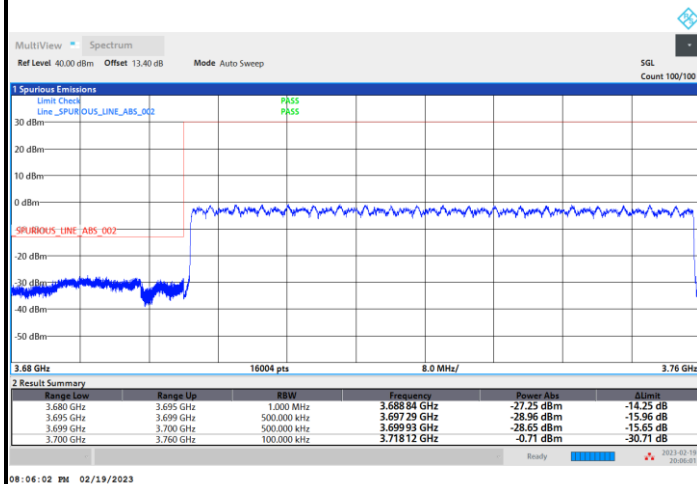
Highest Band Edge / Full RB



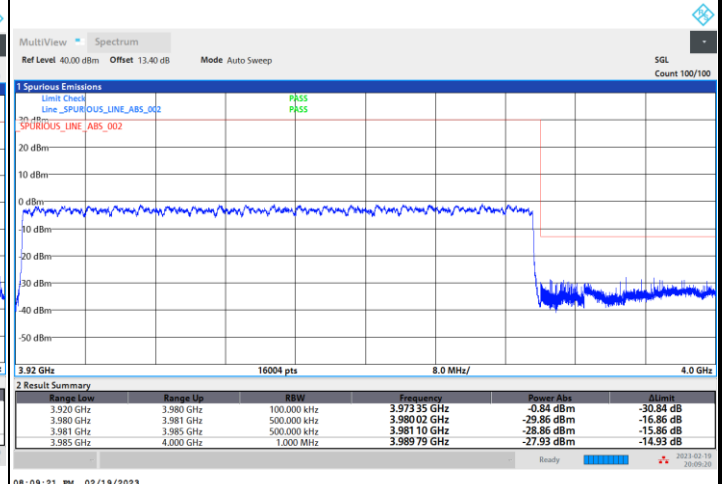


FR1 n77 / 60MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

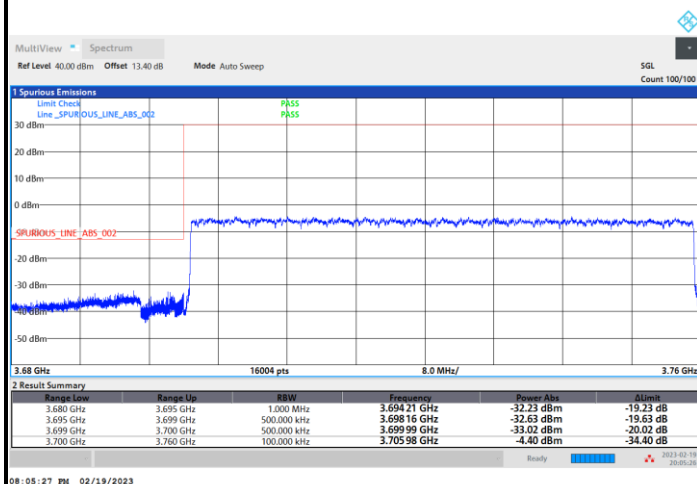


Highest Band Edge / Full RB

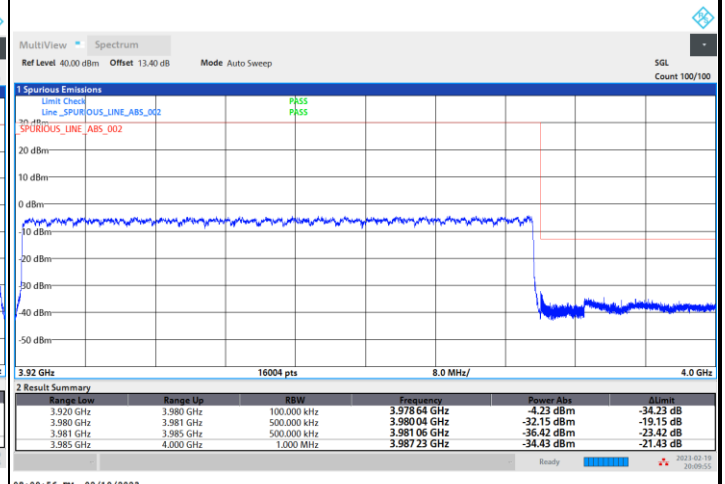


FR1 n77 / 60MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

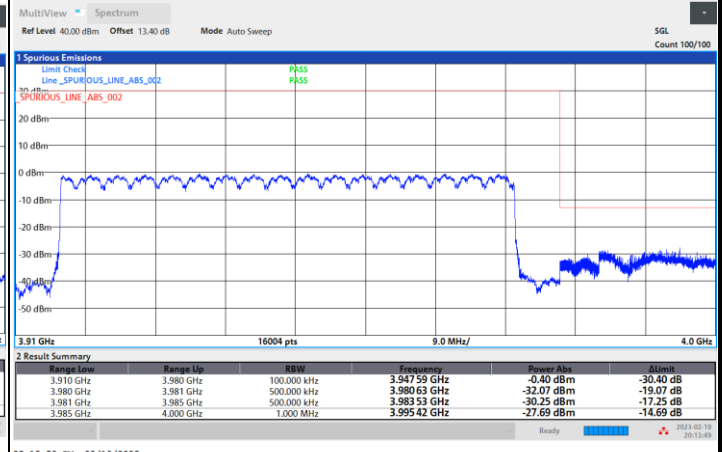
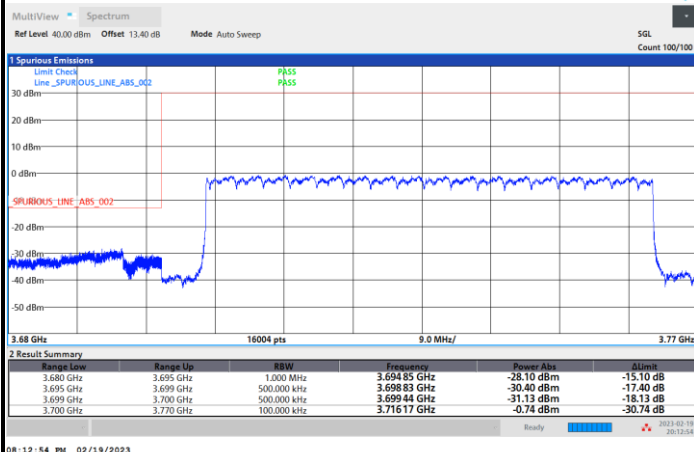




FR1 n77 / 70MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

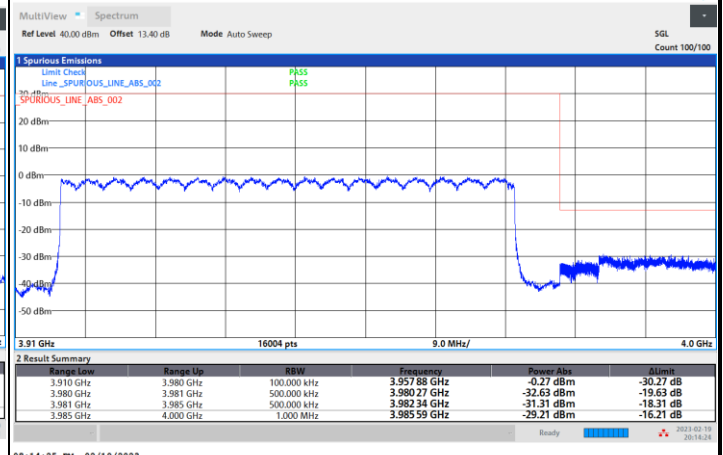
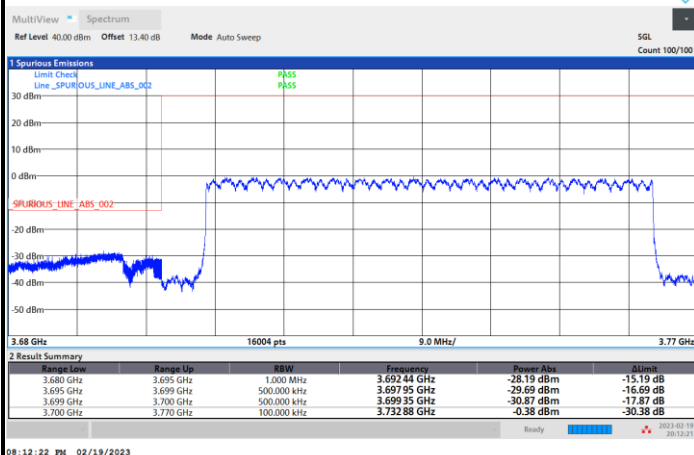
Highest Band Edge / Full RB



FR1 n77 / 70MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

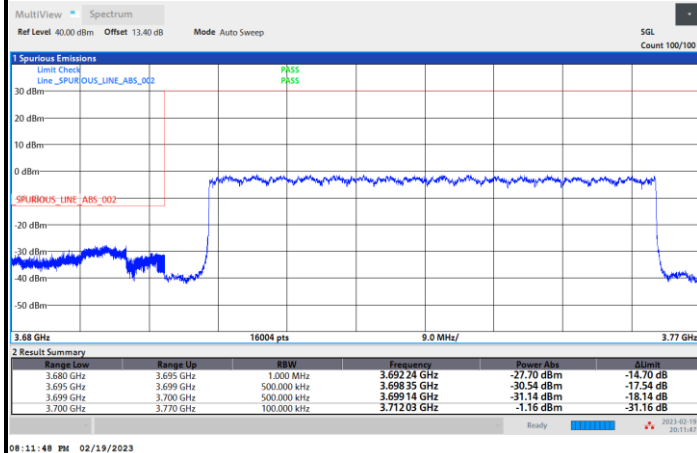
Highest Band Edge / Full RB



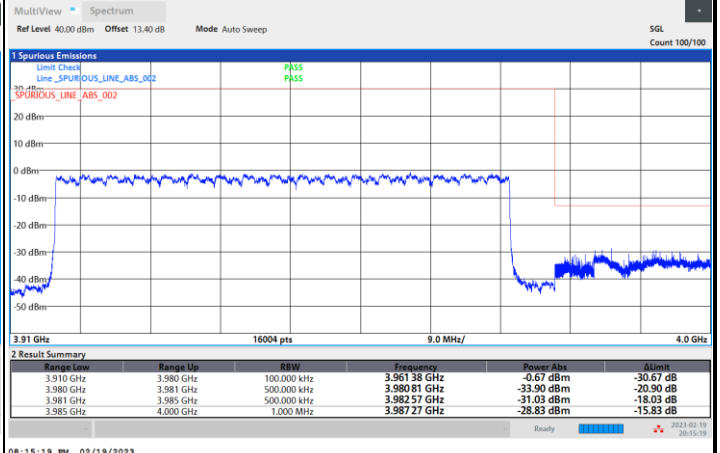


FR1 n77 / 70MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

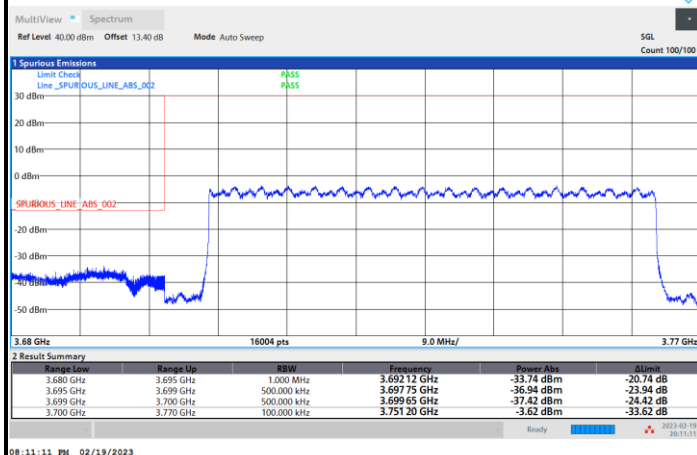


Highest Band Edge / Full RB

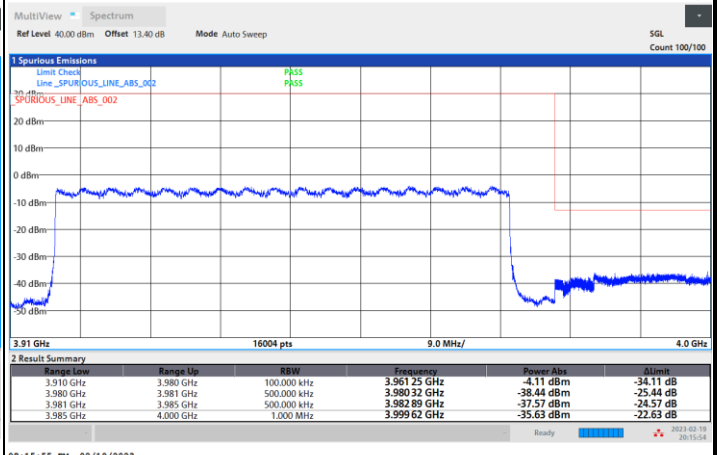


FR1 n77 / 70MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

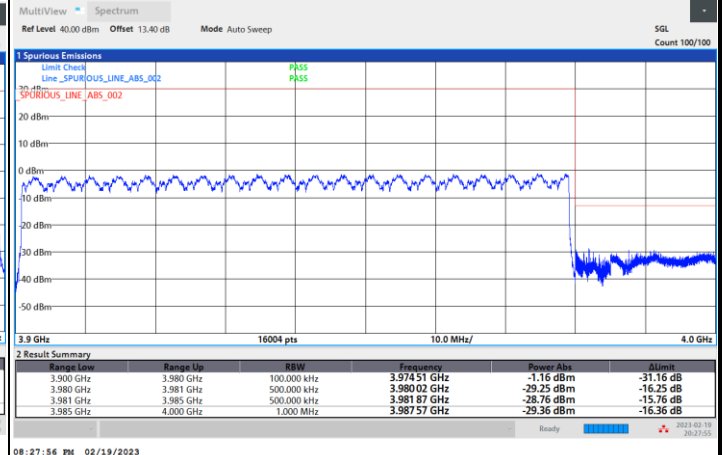
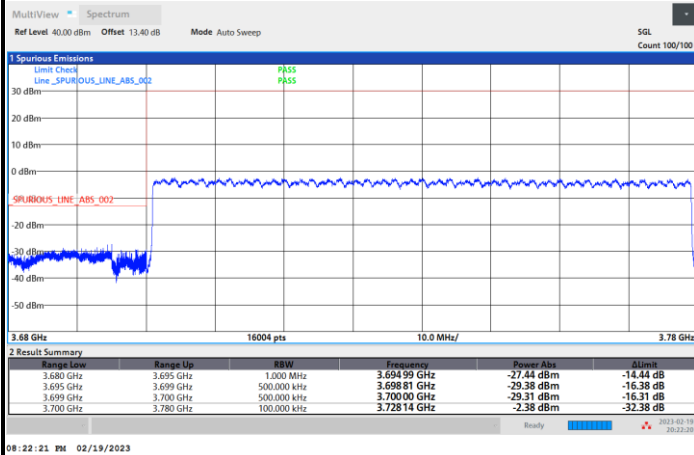




FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

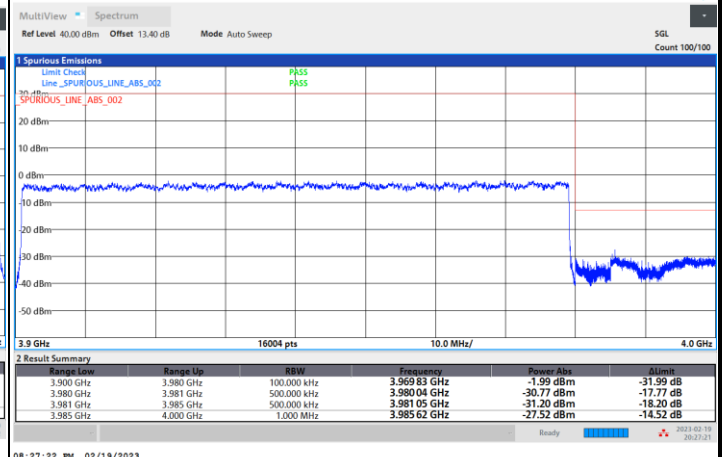
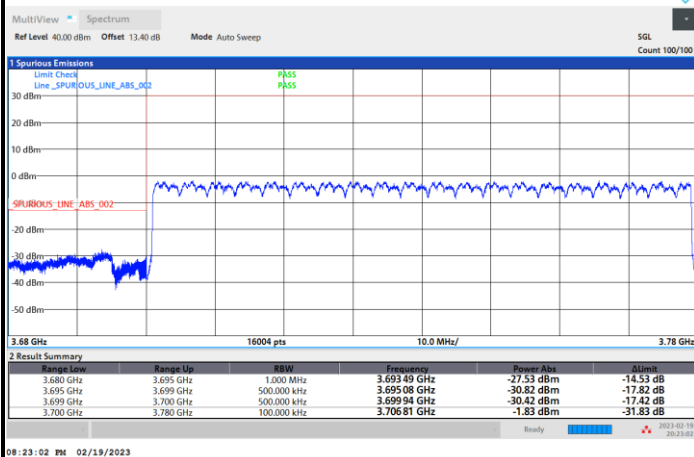
Highest Band Edge / Full RB



FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

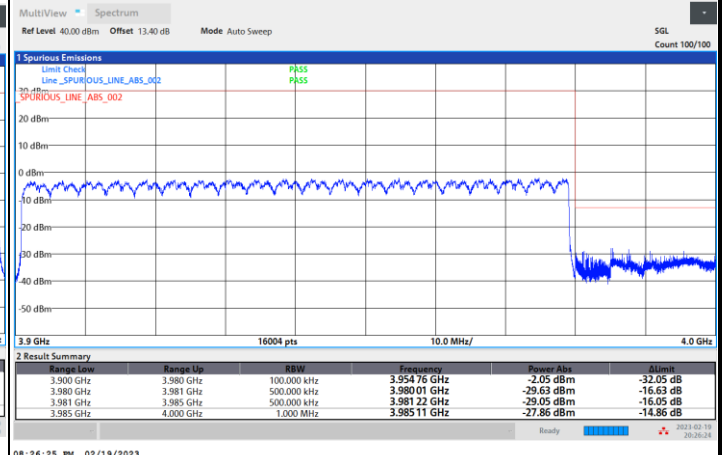
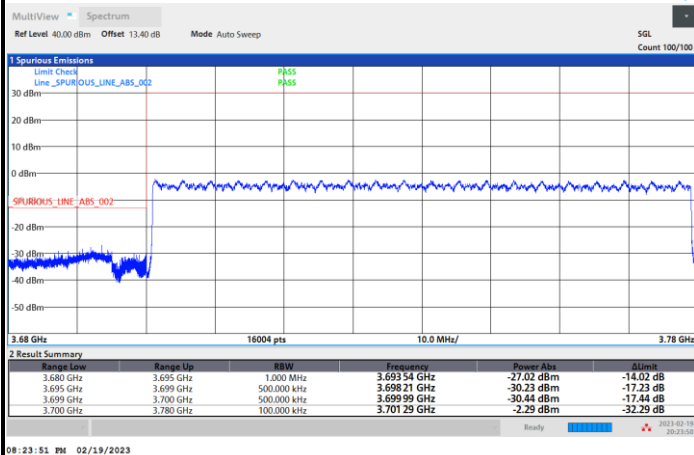




FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

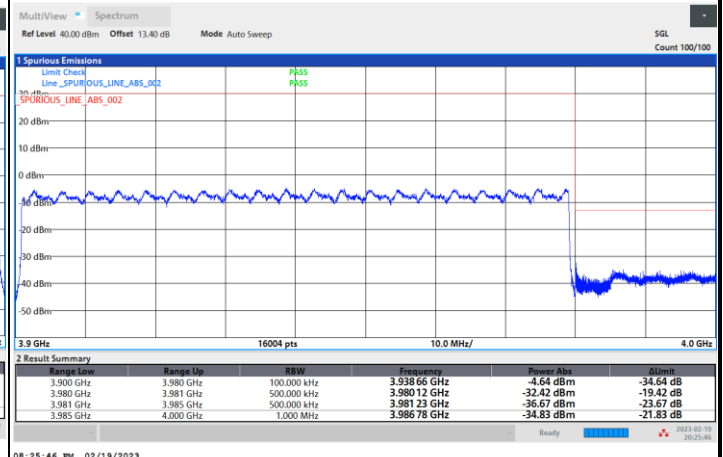
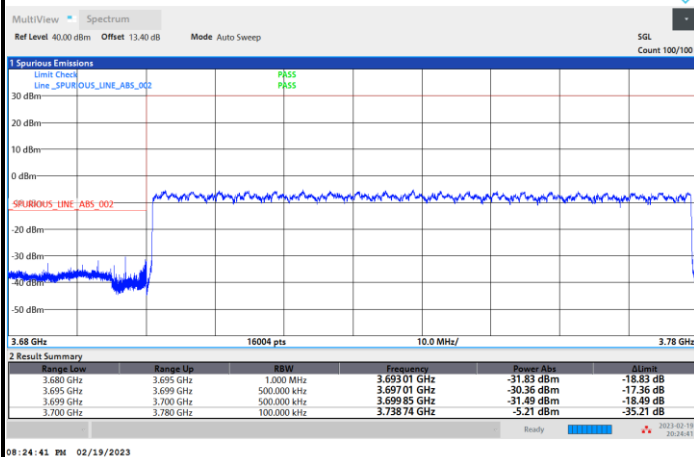
Highest Band Edge / Full RB



FR1 n77 / 80MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

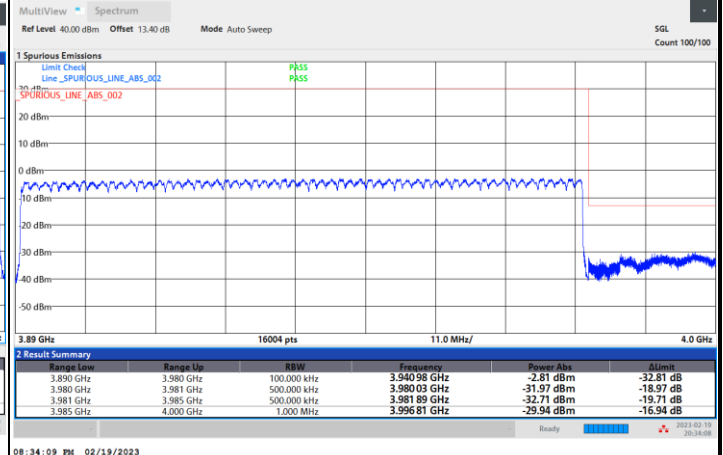
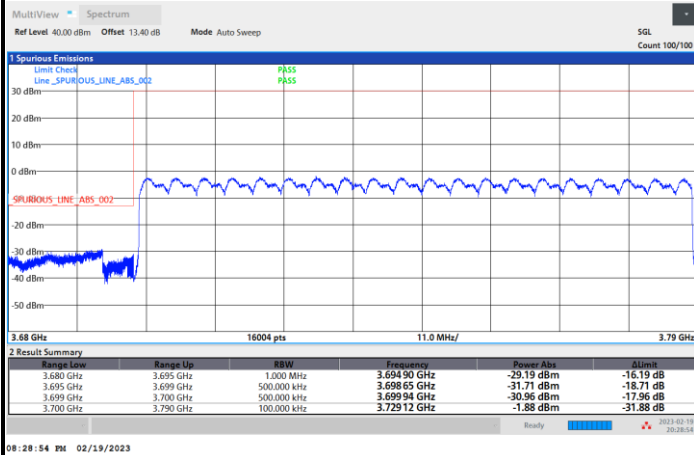




FR1 n77 / 90MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

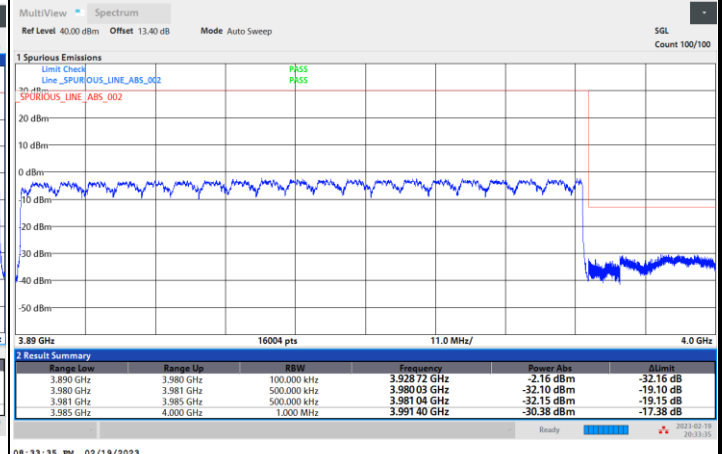
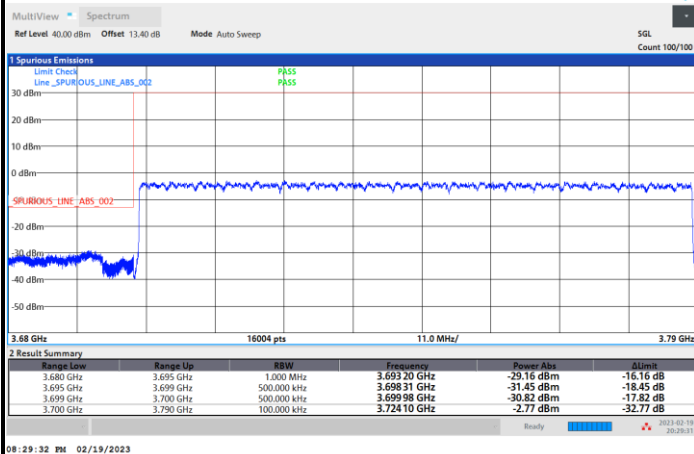
Highest Band Edge / Full RB



FR1 n77 / 90MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

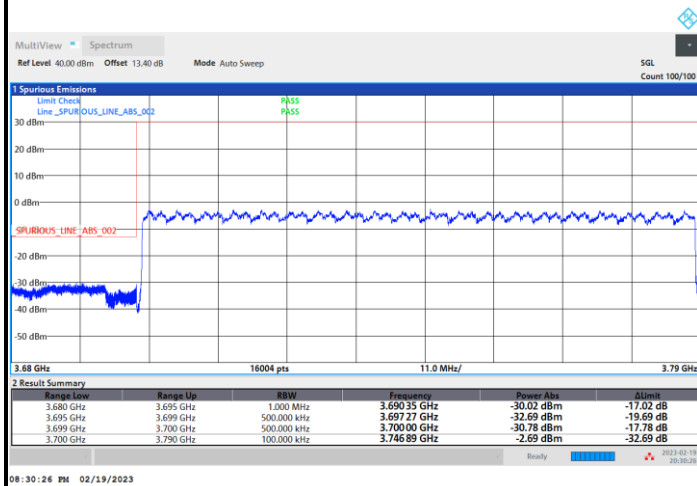
Highest Band Edge / Full RB



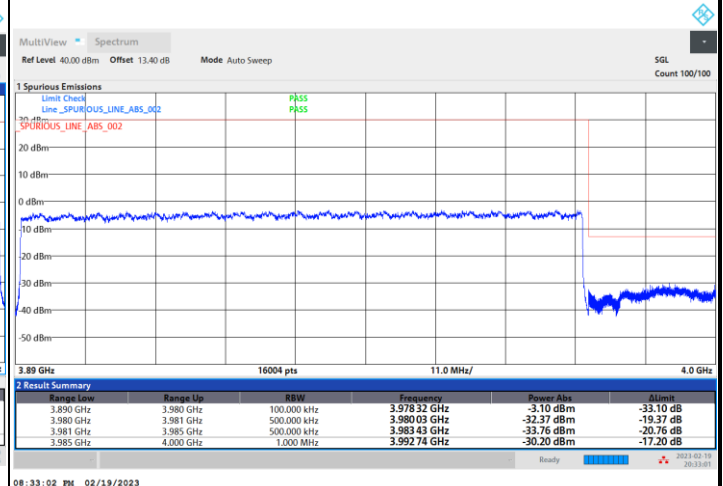


FR1 n77 / 90MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

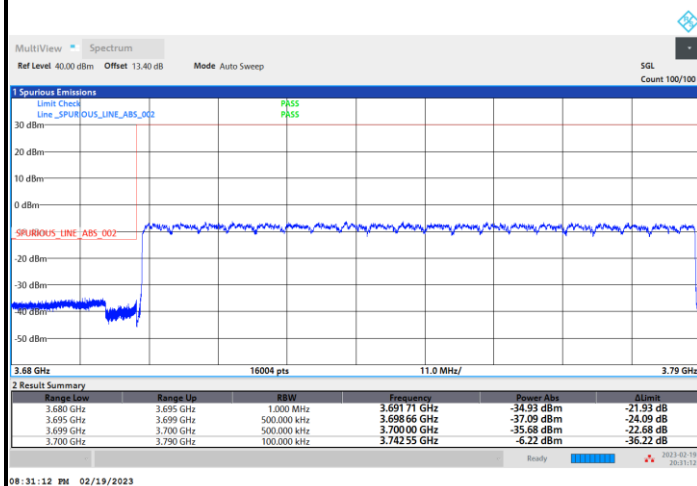


Highest Band Edge / Full RB

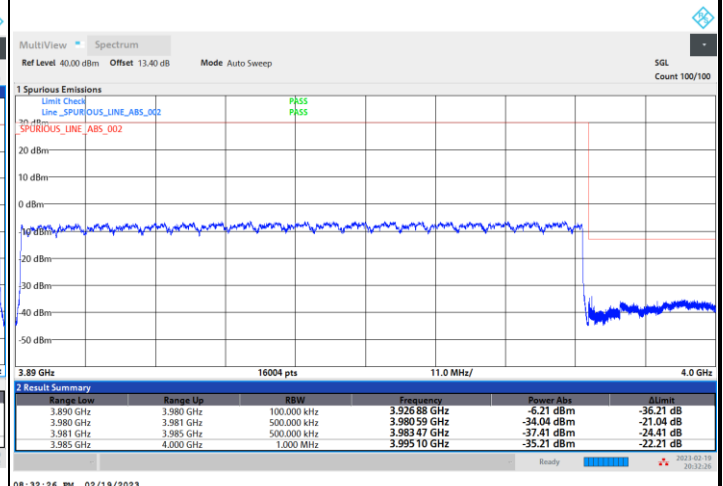


FR1 n77 / 90MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



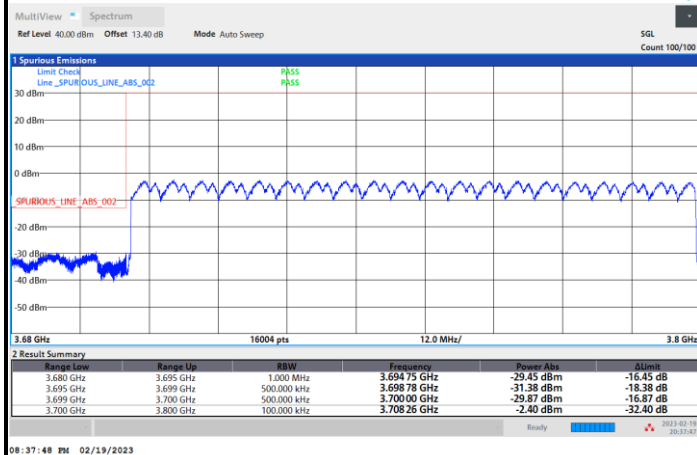
Highest Band Edge / Full RB



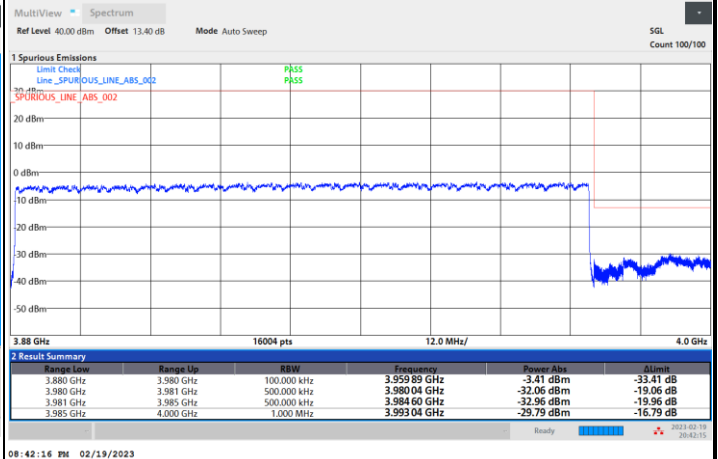


FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

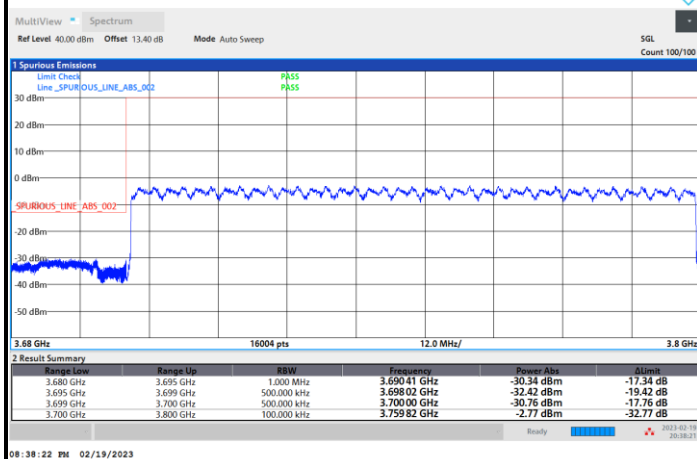


Highest Band Edge / Full RB

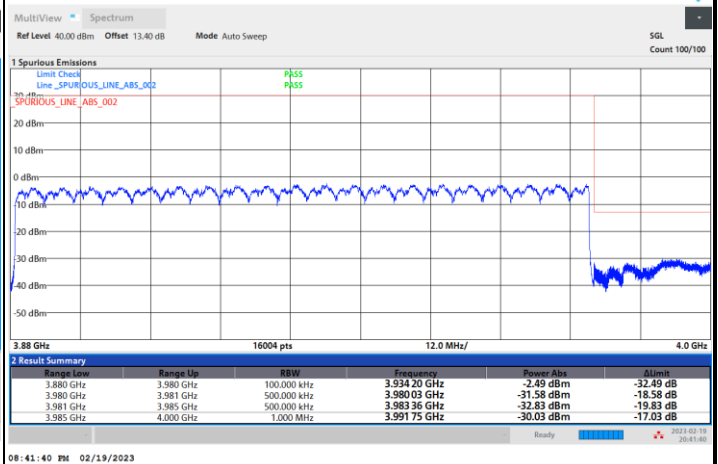


FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

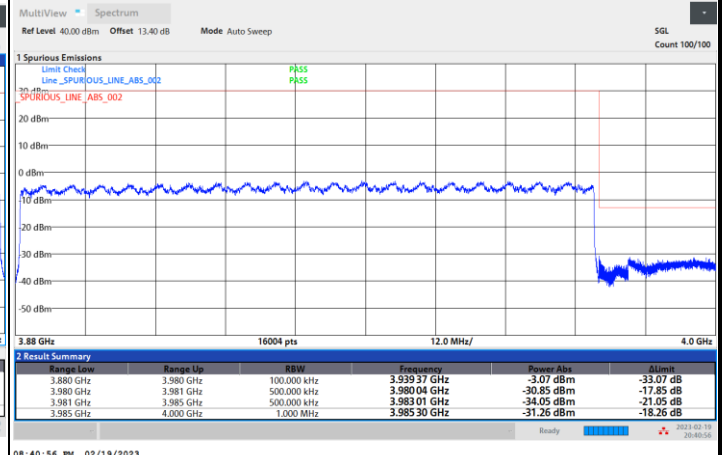
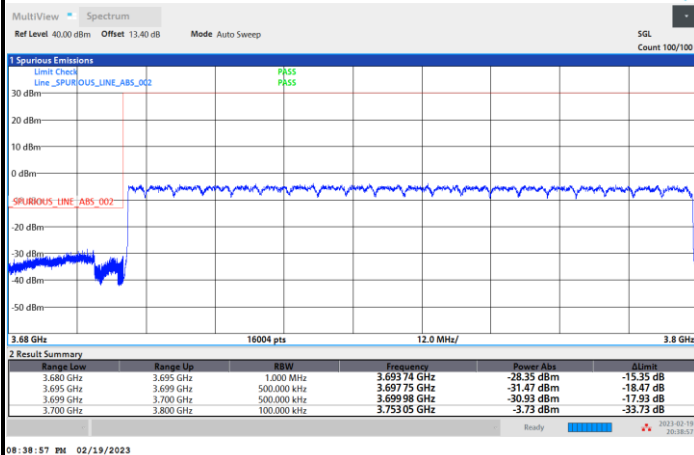




FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

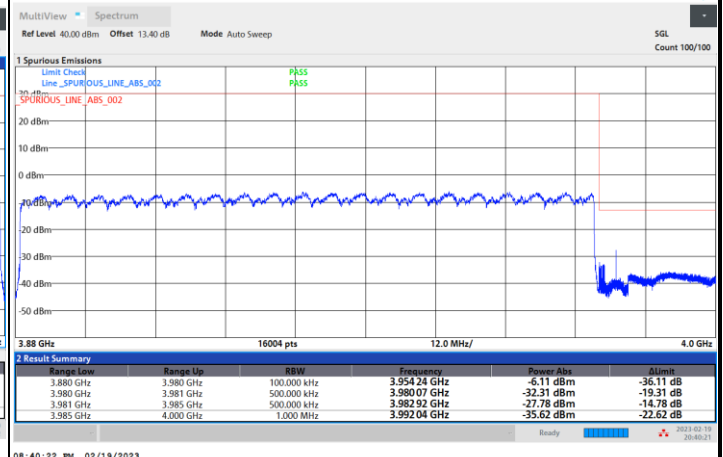
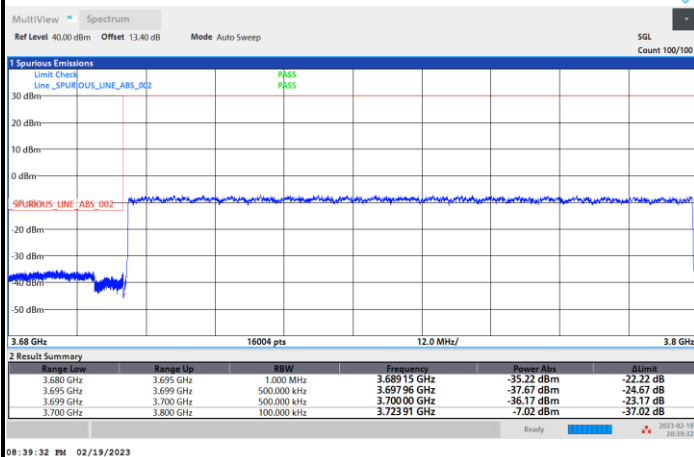
Highest Band Edge / Full RB



FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

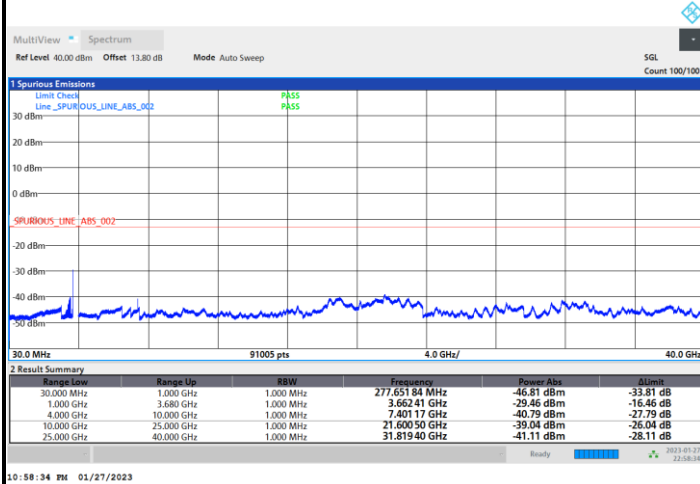




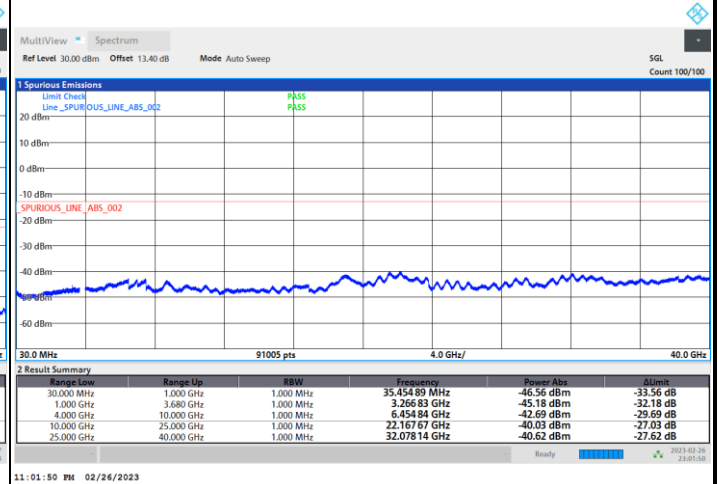
Conducted Spurious Emission

FR1 n77 / 10MHz / CP OFDM / QPSK / 1RB1

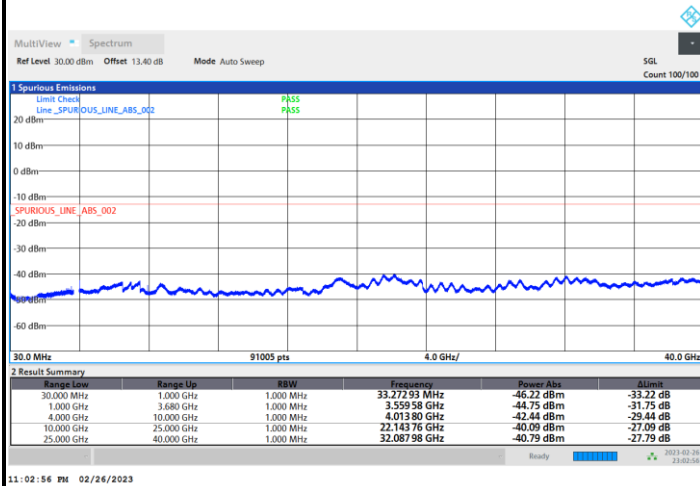
Lowest Channel



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	0.0023	PASS
40	Normal Voltage	0.0000	
30	Normal Voltage	0.0027	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0022	

Note:

1. Normal Voltage = 4.2 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

<SISO Mode>

<OAI 2 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-42.03	-13	-29.03	-71.94	-49.33	1.94	11.39	H
	11104	-29.08	-13	-16.08	-65.2	-35.31	2.24	10.62	H
	14805	-31.06	-13	-18.06	-72.97	-39.10	2.58	12.77	H
	18506	-40.79	-13	-27.79	-50.37	-52.99	3.24	17.59	H
	22207	-57.54	-13	-44.54	-71.01	-70.73	3.52	18.86	H
	25908	-47.94	-13	-34.94	-65.8	-60.95	3.92	19.08	H
	7403	-42.11	-13	-29.11	-72.11	-49.41	1.94	11.39	V
	11104	-28.17	-13	-15.17	-64.25	-34.40	2.24	10.62	V
	14805	-29.95	-13	-16.95	-72.98	-37.99	2.58	12.77	V
	18506	-47.95	-13	-34.95	-57.31	-60.15	3.24	17.59	V
	22207	-42.67	-13	-29.67	-55.74	-55.86	3.52	18.86	V
	25908	-51.91	-13	-38.91	-69.46	-64.92	3.92	19.08	V
Middle	7583	-42.56	-13	-29.56	-72.08	-50.05	1.90	11.53	H
	11374	-26.04	-13	-13.04	-62.46	-32.49	2.35	10.95	H
	15165	-31.87	-13	-18.87	-73.11	-41.04	2.60	13.93	H
	18956	-39.15	-13	-26.15	-48.69	-50.89	3.26	17.14	H
	22747	-42.65	-13	-29.65	-57.08	-55.65	3.55	18.70	H
	26538	-41.91	-13	-28.91	-60.18	-54.48	3.93	18.65	H
	7583	-42.74	-13	-29.74	-72.43	-50.23	1.90	11.53	V
	11374	-25.97	-13	-12.97	-62.46	-32.42	2.35	10.95	V
	15165	-30.30	-13	-17.30	-72.62	-39.47	2.60	13.93	V
	18956	-39.21	-13	-26.21	-48.52	-50.95	3.26	17.14	V
	22747	-43.97	-13	-30.97	-58.02	-56.97	3.55	18.70	V
	26538	-42.68	-13	-29.68	-60.57	-55.25	3.93	18.65	V



Highest	7763	-42.10	-13	-29.10	-71.89	-49.75	1.88	11.68	H
	11644	-25.93	-13	-12.93	-63.07	-32.94	2.46	11.62	H
	15525	-32.67	-13	-19.67	-72.74	-43.29	2.70	15.47	H
	19406	-34.48	-13	-21.48	-44.63	-46.53	3.23	17.42	H
	23287	-36.57	-13	-23.57	-51.85	-49.44	3.63	18.66	H
	27168	-34.56	-13	-21.56	-53.57	-47.85	3.93	19.37	H
	7763	-41.37	-13	-28.37	-71.43	-49.02	1.88	11.68	V
	11644	-25.72	-13	-12.72	-62.78	-32.73	2.46	11.62	V
	15525	-32.72	-13	-19.72	-73.06	-43.34	2.70	15.47	V
	19406	-42.42	-13	-29.42	-52.31	-54.47	3.23	17.42	V
	23287	-47.02	-13	-34.02	-61.97	-59.89	3.63	18.66	V
	27168	-40.89	-13	-27.89	-59.54	-54.18	3.93	19.37	V

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



<OAI 4 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-41.55	-13	-28.55	-71.45	-48.85	1.94	11.39	H
	11104	-36.71	-13	-23.71	-72.84	-42.94	2.24	10.62	H
	14805	-29.72	-13	-16.72	-71.64	-37.76	2.58	12.77	H
	18506	-62.63	-13	-49.63	-73.91	-74.83	3.24	17.59	H
	22207	-60.94	-13	-47.94	-75.77	-74.13	3.52	18.86	H
	25908	-59.20	-13	-46.20	-77.16	-72.21	3.92	19.08	H
	7403	-42.03	-13	-29.03	-72.03	-49.33	1.94	11.39	V
	11104	-36.90	-13	-23.90	-72.98	-43.13	2.24	10.62	V
	14805	-28.61	-13	-15.61	-71.64	-36.65	2.58	12.77	V
	18506	-61.74	-13	-48.74	-72.8	-73.94	3.24	17.59	V
	22207	-59.69	-13	-46.69	-74.12	-72.88	3.52	18.86	V
	25908	-59.57	-13	-46.57	-77.22	-72.58	3.92	19.08	V
Middle	7583	-42.79	-13	-29.79	-72.31	-50.28	1.90	11.53	H
	11374	-35.92	-13	-22.92	-72.34	-42.37	2.35	10.95	H
	15165	-29.91	-13	-16.91	-71.17	-39.08	2.60	13.93	H
	18956	-63.74	-13	-50.74	-74.71	-75.48	3.26	17.14	H
	22748	-60.65	-13	-47.65	-76.33	-73.65	3.55	18.70	H
	26539	-58.36	-13	-45.36	-77.17	-70.94	3.93	18.65	H
	7583	-42.57	-13	-29.57	-72.26	-50.06	1.90	11.53	V
	11374	-36.17	-13	-23.17	-72.66	-42.62	2.35	10.95	V
	15165	-28.60	-13	-15.60	-70.94	-37.77	2.60	13.93	V
	18956	-63.12	-13	-50.12	-73.86	-74.86	3.26	17.14	V
	22748	-60.82	-13	-47.82	-76.12	-73.82	3.55	18.70	V
	26539	-58.94	-13	-45.94	-77.37	-71.52	3.93	18.65	V



Highest	7763	-42.20	-13	-29.20	-71.99	-49.85	1.88	11.68	H
	11644	-34.84	-13	-21.84	-71.99	-41.85	2.46	11.62	H
	15525	-30.75	-13	-17.75	-70.83	-41.37	2.70	15.47	H
	19406	-63.23	-13	-50.23	-74.94	-75.28	3.23	17.42	H
	23287	-59.58	-13	-46.58	-75.89	-72.45	3.63	18.66	H
	27168	-57.96	-13	-44.96	-77.8	-71.25	3.93	19.37	H
	7763	-42.04	-13	-29.04	-72.1	-49.69	1.88	11.68	V
	11644	-34.72	-13	-21.72	-71.78	-41.73	2.46	11.62	V
	15525	-30.83	-13	-17.83	-71.18	-41.45	2.70	15.47	V
	19406	-61.11	-13	-48.11	-72.56	-73.16	3.23	17.42	V
	23287	-57.78	-13	-44.78	-73.77	-70.65	3.63	18.66	V
	27168	-55.50	-13	-42.50	-74.98	-68.79	3.93	19.37	V

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



<OA 5 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-42.63	-13	-29.63	-72.53	-49.93	1.94	11.39	H
	11104	-37.36	-13	-24.36	-73.49	-43.59	2.24	10.62	H
	14805	-30.70	-13	-17.70	-72.62	-38.74	2.58	12.77	H
	18506	-60.12	-13	-47.12	-69.7	-72.32	3.24	17.59	H
	22207	-54.96	-13	-41.96	-68.43	-68.15	3.52	18.86	H
	25908	-58.63	-13	-45.63	-76.49	-71.64	3.92	19.08	H
	7403	-42.47	-13	-29.47	-72.47	-49.77	1.94	11.39	V
	11104	-37.14	-13	-24.14	-73.22	-43.37	2.24	10.62	V
	14805	-29.72	-13	-16.72	-72.75	-37.76	2.58	12.77	V
	18506	-51.99	-13	-38.99	-61.35	-64.19	3.24	17.59	V
	22207	-40.82	-13	-27.82	-53.89	-54.01	3.52	18.86	V
	25908	-53.11	-13	-40.11	-70.66	-66.12	3.92	19.08	V
Middle	7583	-42.12	-13	-29.12	-71.64	-49.61	1.90	11.53	H
	11374	-35.56	-13	-22.56	-71.98	-42.01	2.35	10.95	H
	15165	-30.02	-13	-17.02	-71.28	-39.19	2.60	13.93	H
	18956	-59.79	-13	-46.79	-69.33	-71.53	3.26	17.14	H
	22747	-52.66	-13	-39.66	-67.09	-65.66	3.55	18.70	H
	26538	-52.84	-13	-39.84	-71.11	-65.41	3.93	18.65	H
	7583	-42.18	-13	-29.18	-71.87	-49.67	1.90	11.53	V
	11374	-35.28	-13	-22.28	-71.77	-41.73	2.35	10.95	V
	15165	-29.51	-13	-16.51	-71.85	-38.68	2.60	13.93	V
	18956	-46.61	-13	-33.61	-55.92	-58.35	3.26	17.14	V
	22747	-41.82	-13	-28.82	-55.87	-54.82	3.55	18.70	V
	26538	-44.62	-13	-31.62	-62.51	-57.19	3.93	18.65	V



Highest	7763	-42.78	-13	-29.78	-72.57	-50.43	1.88	11.68	H
	11644	-35.68	-13	-22.68	-72.83	-42.69	2.46	11.62	H
	15525	-31.44	-13	-18.44	-71.52	-42.06	2.70	15.47	H
	19406	-56.94	-13	-43.94	-67.09	-68.99	3.23	17.42	H
	23287	-54.99	-13	-41.99	-70.27	-67.86	3.63	18.66	H
	27168	-55.68	-13	-42.68	-74.69	-68.97	3.93	19.37	H
	7763	-41.85	-13	-28.85	-71.91	-49.50	1.88	11.68	V
	11644	-35.72	-13	-22.72	-72.78	-42.73	2.46	11.62	V
	15525	-31.54	-13	-18.54	-71.89	-42.16	2.70	15.47	V
	19406	-46.82	-13	-33.82	-56.71	-58.87	3.23	17.42	V
	23287	-45.45	-13	-32.45	-60.4	-58.32	3.63	18.66	V
	27168	-47.51	-13	-34.51	-66.16	-60.80	3.93	19.37	V

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



<OA 6 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-42.49	-13	-29.49	-72.4	-49.79	1.94	11.39	H
	11104	-37.09	-13	-24.09	-73.22	-43.32	2.24	10.62	H
	14805	-30.09	-13	-17.09	-72	-38.13	2.58	12.77	H
	18506	-62.94	-13	-49.94	-74.22	-75.14	3.24	17.59	H
	22208	-61.68	-13	-48.68	-76.51	-74.87	3.52	18.86	H
	25909	-59.43	-13	-46.43	-77.39	-72.44	3.92	19.08	H
	7403	-42.73	-13	-29.73	-72.73	-50.03	1.94	11.39	V
	11104	-37.57	-13	-24.57	-73.65	-43.80	2.24	10.62	V
	14805	-28.85	-13	-15.85	-71.88	-36.89	2.58	12.77	V
	18506	-62.08	-13	-49.08	-73.14	-74.28	3.24	17.59	V
	22208	-61.68	-13	-48.68	-76.11	-74.87	3.52	18.86	V
	25909	-59.53	-13	-46.53	-77.18	-72.54	3.92	19.08	V
Middle	7583	-43.26	-13	-30.26	-72.78	-50.75	1.90	11.53	H
	11374	-36.24	-13	-23.24	-72.66	-42.69	2.35	10.95	H
	15165	-30.30	-13	-17.30	-71.54	-39.47	2.60	13.93	H
	18956	-64.28	-13	-51.28	-75.25	-76.02	3.26	17.14	H
	22748	-60.58	-13	-47.58	-76.26	-73.58	3.55	18.70	H
	26539	-58.50	-13	-45.50	-77.31	-71.08	3.93	18.65	H
	7583	-42.89	-13	-29.89	-72.58	-50.38	1.90	11.53	V
	11374	-36.35	-13	-23.35	-72.84	-42.80	2.35	10.95	V
	15165	-29.14	-13	-16.14	-71.46	-38.31	2.60	13.93	V
	18956	-60.89	-13	-47.89	-71.63	-72.63	3.26	17.14	V
	22748	-60.99	-13	-47.99	-76.29	-73.99	3.55	18.70	V
	26539	-58.72	-13	-45.72	-77.15	-71.30	3.93	18.65	V



Highest	7763	-42.43	-13	-29.43	-72.22	-50.08	1.88	11.68	H
	11644	-35.60	-13	-22.60	-72.74	-42.61	2.46	11.62	H
	15525	-31.58	-13	-18.58	-71.65	-42.20	2.70	15.47	H
	19406	-62.82	-13	-49.82	-74.53	-74.87	3.23	17.42	H
	23287	-59.66	-13	-46.66	-75.97	-72.53	3.63	18.66	H
	27168	-56.54	-13	-43.54	-76.38	-69.83	3.93	19.37	H
	7763	-41.99	-13	-28.99	-72.05	-49.64	1.88	11.68	V
	11644	-35.53	-13	-22.53	-72.59	-42.54	2.46	11.62	V
	15525	-31.00	-13	-18.00	-71.34	-41.62	2.70	15.47	V
	19406	-58.86	-13	-45.86	-70.31	-70.91	3.23	17.42	V
	23287	-57.14	-13	-44.14	-73.13	-70.01	3.63	18.66	V
	27168	-55.89	-13	-42.89	-75.37	-69.18	3.93	19.37	V

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



<EA 2 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-41.91	-13	-28.91	-71.81	-49.21	1.94	11.39	H
	11104	-34.40	-13	-21.40	-70.53	-40.63	2.24	10.62	H
	14805	-30.66	-13	-17.66	-72.58	-38.70	2.58	12.77	H
	18506	-50.71	-13	-37.71	-60.29	-62.91	3.24	17.59	H
	22208	-59.10	-13	-46.10	-72.57	-72.29	3.52	18.86	H
	25909	-57.42	-13	-44.42	-75.28	-70.43	3.92	19.08	H
	7403	-39.62	-13	-26.62	-69.62	-46.92	1.94	11.39	V
	11104	-33.11	-13	-20.11	-69.19	-39.34	2.24	10.62	V
	14805	-29.64	-13	-16.64	-72.67	-37.68	2.58	12.77	V
	18506	-43.25	-13	-30.25	-52.61	-55.45	3.24	17.59	V
	22208	-51.94	-13	-38.94	-65.01	-65.13	3.52	18.86	V
	25909	-53.19	-13	-40.19	-70.74	-66.20	3.92	19.08	V
Middle	7583	-42.56	-13	-29.56	-72.08	-50.05	1.90	11.53	H
	11374	-26.04	-13	-13.04	-62.46	-32.49	2.35	10.95	H
	15165	-31.87	-13	-18.87	-73.11	-41.04	2.60	13.93	H
	18956	-37.43	-13	-24.43	-46.97	-49.17	3.26	17.14	H
	22748	-59.17	-13	-46.17	-73.6	-72.17	3.55	18.70	H
	26539	-48.24	-13	-35.24	-66.51	-60.82	3.93	18.65	H
	7583	-42.74	-13	-29.74	-72.43	-50.23	1.90	11.53	V
	11374	-25.97	-13	-12.97	-62.46	-32.42	2.35	10.95	V
	15165	-30.30	-13	-17.30	-72.62	-39.47	2.60	13.93	V
	18956	-40.55	-13	-27.55	-49.86	-52.29	3.26	17.14	V
	22748	-47.05	-13	-34.05	-61.1	-60.05	3.55	18.70	V
	26539	-52.18	-13	-39.18	-70.07	-64.76	3.93	18.65	V



Highest	7763	-42.27	-13	-29.27	-72.06	-49.92	1.88	11.68	H
	11644	-33.03	-13	-20.03	-70.18	-40.04	2.46	11.62	H
	15525	-31.98	-13	-18.98	-72.06	-42.60	2.70	15.47	H
	19406	-50.15	-13	-37.15	-60.3	-62.20	3.23	17.42	H
	23287	-57.03	-13	-44.03	-72.31	-69.90	3.63	18.66	H
	27168	-55.49	-13	-42.49	-74.5	-68.78	3.93	19.37	H
	7763	-39.50	-13	-26.50	-69.56	-47.15	1.88	11.68	V
	11644	-31.92	-13	-18.92	-68.98	-38.93	2.46	11.62	V
	15525	-31.81	-13	-18.81	-72.16	-42.43	2.70	15.47	V
	19406	-45.93	-13	-32.93	-55.82	-57.98	3.23	17.42	V
	23287	-53.72	-13	-40.72	-68.68	-66.59	3.63	18.66	V
	27168	-46.52	-13	-33.52	-65.17	-59.81	3.93	19.37	V

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



<EA 4 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-42.58	-13	-29.58	-72.49	-49.88	1.94	11.39	H
	11104	-36.70	-13	-23.70	-72.83	-42.93	2.24	10.62	H
	14805	-29.80	-13	-16.80	-71.71	-37.84	2.58	12.77	H
	18506	-63.62	-13	-50.62	-74.9	-75.82	3.24	17.59	H
	22208	-62.20	-13	-49.20	-77.03	-75.39	3.52	18.86	H
	25909	-59.89	-13	-46.89	-77.85	-72.90	3.92	19.08	H
	7403	-42.10	-13	-29.10	-72.1	-49.40	1.94	11.39	V
	11104	-37.15	-13	-24.15	-73.23	-43.38	2.24	10.62	V
	14805	-28.97	-13	-15.97	-72	-37.01	2.58	12.77	V
	18506	-62.79	-13	-49.79	-73.85	-74.99	3.24	17.59	V
	22208	-61.30	-13	-48.30	-75.73	-74.49	3.52	18.86	V
	25909	-60.42	-13	-47.42	-78.07	-73.43	3.92	19.08	V
Middle	7583	-42.84	-13	-29.84	-72.36	-50.33	1.90	11.53	H
	11374	-36.40	-13	-23.40	-72.82	-42.85	2.35	10.95	H
	15165	-29.44	-13	-16.44	-70.68	-38.61	2.60	13.93	H
	18956	-65.36	-13	-52.36	-76.33	-77.10	3.26	17.14	H
	22748	-61.44	-13	-48.44	-77.12	-74.44	3.55	18.70	H
	26539	-58.46	-13	-45.46	-77.27	-71.04	3.93	18.65	H
	7583	-42.33	-13	-29.33	-72.02	-49.82	1.90	11.53	V
	11374	-36.20	-13	-23.20	-72.69	-42.65	2.35	10.95	V
	15165	-29.38	-13	-16.38	-71.7	-38.55	2.60	13.93	V
	18956	-62.04	-13	-49.04	-72.78	-73.78	3.26	17.14	V
	22748	-60.58	-13	-47.58	-75.88	-73.58	3.55	18.70	V
	26539	-58.55	-13	-45.55	-76.98	-71.13	3.93	18.65	V



Highest	7763	-41.87	-13	-28.87	-71.66	-49.52	1.88	11.68	H
	11644	-35.25	-13	-22.25	-72.39	-42.26	2.46	11.62	H
	15525	-31.54	-13	-18.54	-71.61	-42.16	2.70	15.47	H
	19406	-63.06	-13	-50.06	-74.77	-75.11	3.23	17.42	H
	23287	-60.36	-13	-47.36	-76.67	-73.23	3.63	18.66	H
	27168	-57.66	-13	-44.66	-77.5	-70.95	3.93	19.37	H
	7763	-42.07	-13	-29.07	-72.13	-49.72	1.88	11.68	V
	11644	-35.36	-13	-22.36	-72.43	-42.37	2.46	11.62	V
	15525	-31.18	-13	-18.18	-71.52	-41.80	2.70	15.47	V
	19406	-59.83	-13	-46.83	-71.28	-71.88	3.23	17.42	V
	23287	-60.05	-13	-47.05	-76.04	-72.92	3.63	18.66	V
	27168	-58.42	-13	-45.42	-77.9	-71.71	3.93	19.37	V

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



<EA 1_5 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-42.16	-13	-29.16	-72.06	-49.46	1.94	11.39	H
	11104	-36.56	-13	-23.56	-72.69	-42.79	2.24	10.62	H
	14805	-30.55	-13	-17.55	-72.47	-38.59	2.58	12.77	H
	18506	-62.18	-13	-49.18	-71.76	-74.38	3.24	17.59	H
	22208	-49.08	-13	-36.08	-62.55	-62.27	3.52	18.86	H
	25909	-58.31	-13	-45.31	-76.17	-71.32	3.92	19.08	H
	7403	-41.91	-13	-28.91	-71.91	-49.21	1.94	11.39	V
	11104	-36.55	-13	-23.55	-72.63	-42.78	2.24	10.62	V
	14805	-29.69	-13	-16.69	-72.72	-37.73	2.58	12.77	V
	18506	-53.95	-13	-40.95	-63.31	-66.15	3.24	17.59	V
	22208	-41.81	-13	-28.81	-54.88	-55.00	3.52	18.86	V
	25909	-56.00	-13	-43.00	-73.55	-69.01	3.92	19.08	V
Middle	7583	-42.94	-13	-29.94	-72.46	-50.43	1.90	11.53	H
	11374	-36.01	-13	-23.01	-72.43	-42.46	2.35	10.95	H
	15165	-30.34	-13	-17.34	-71.6	-39.51	2.60	13.93	H
	18956	-62.26	-13	-49.26	-71.8	-74.00	3.26	17.14	H
	22748	-58.33	-13	-45.33	-72.76	-71.33	3.55	18.70	H
	26539	-58.42	-13	-45.42	-76.69	-71.00	3.93	18.65	H
	7583	-42.34	-13	-29.34	-72.03	-49.83	1.90	11.53	V
	11374	-35.90	-13	-22.90	-72.39	-42.35	2.35	10.95	V
	15165	-29.57	-13	-16.57	-71.91	-38.74	2.60	13.93	V
	18956	-50.40	-13	-37.40	-59.71	-62.14	3.26	17.14	V
	22748	-51.10	-13	-38.10	-65.15	-64.10	3.55	18.70	V
	26539	-53.22	-13	-40.22	-71.11	-65.80	3.93	18.65	V



Highest	7763	-41.65	-13	-28.65	-71.44	-49.30	1.88	11.68	H
	11644	-34.97	-13	-21.97	-72.12	-41.98	2.46	11.62	H
	15525	-31.78	-13	-18.78	-71.86	-42.40	2.70	15.47	H
	19406	-62.33	-13	-49.33	-72.48	-74.38	3.23	17.42	H
	23287	-60.09	-13	-47.09	-75.37	-72.96	3.63	18.66	H
	27168	-57.46	-13	-44.46	-76.47	-70.75	3.93	19.37	H
	7763	-41.64	-13	-28.64	-71.7	-49.29	1.88	11.68	V
	11644	-34.93	-13	-21.93	-71.99	-41.94	2.46	11.62	V
	15525	-31.49	-13	-18.49	-71.84	-42.11	2.70	15.47	V
	19406	-55.71	-13	-42.71	-65.6	-67.76	3.23	17.42	V
	23287	-50.27	-13	-37.27	-65.23	-63.14	3.63	18.66	V
	27168	-57.52	-13	-44.52	-76.17	-70.81	3.93	19.37	V

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



<EA 3_6 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-42.24	-13	-29.24	-72.14	-49.54	1.94	11.39	H
	11104	-36.75	-13	-23.75	-72.88	-42.98	2.24	10.62	H
	14805	-31.03	-13	-18.03	-72.95	-39.07	2.58	12.77	H
	18506	-59.55	-13	-46.55	-69.13	-71.75	3.24	17.59	H
	22208	-51.66	-13	-38.66	-65.13	-64.85	3.52	18.86	H
	25909	-58.21	-13	-45.21	-76.07	-71.22	3.92	19.08	H
	7403	-42.29	-13	-29.29	-72.29	-49.59	1.94	11.39	V
	11104	-34.40	-13	-21.40	-70.48	-40.63	2.24	10.62	V
	14805	-30.23	-13	-17.23	-73.26	-38.27	2.58	12.77	V
	18506	-55.39	-13	-42.39	-64.75	-67.59	3.24	17.59	V
	22208	-52.74	-13	-39.74	-65.81	-65.93	3.52	18.86	V
	25909	-55.92	-13	-42.92	-73.47	-68.93	3.92	19.08	V
Middle	7583	-49.29	-13	-36.29	-72.81	-56.78	1.90	11.53	H
	11374	-36.58	-13	-23.58	-73	-43.03	2.35	10.95	H
	15165	-30.87	-13	-17.87	-72.13	-40.04	2.60	13.93	H
	18956	-41.99	-13	-28.99	-51.53	-53.73	3.26	17.14	H
	22748	-54.53	-13	-41.53	-68.96	-67.53	3.55	18.70	H
	26539	-55.95	-13	-42.95	-74.22	-68.53	3.93	18.65	H
	7583	-43.07	-13	-30.07	-72.76	-50.56	1.90	11.53	V
	11374	-36.74	-13	-23.74	-73.23	-43.19	2.35	10.95	V
	15165	-29.85	-13	-16.85	-72.19	-39.02	2.60	13.93	V
	18956	-36.29	-13	-23.29	-45.6	-48.03	3.26	17.14	V
	22748	-51.04	-13	-38.04	-65.09	-64.04	3.55	18.70	V
	26539	-49.65	-13	-36.65	-67.54	-62.23	3.93	18.65	V



Highest	7763	-42.39	-13	-29.39	-72.18	-50.04	1.88	11.68	H
	11644	-32.73	-13	-19.73	-69.88	-39.74	2.46	11.62	H
	15525	-31.96	-13	-18.96	-72.04	-42.58	2.70	15.47	H
	19406	-46.75	-13	-33.75	-56.9	-58.80	3.23	17.42	H
	23287	-56.97	-13	-43.97	-72.25	-69.84	3.63	18.66	H
	27168	-50.85	-13	-37.85	-69.86	-64.14	3.93	19.37	H
	7763	-41.94	-13	-28.94	-72	-49.59	1.88	11.68	V
	11644	-25.04	-13	-12.04	-62.1	-32.05	2.46	11.62	V
	15525	-31.85	-13	-18.85	-72.2	-42.47	2.70	15.47	V
	19406	-31.65	-13	-18.65	-41.54	-43.70	3.23	17.42	V
	23287	-50.27	-13	-37.27	-65.23	-63.14	3.63	18.66	V
	27168	-34.89	-13	-21.89	-53.54	-48.18	3.93	19.37	V

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



<DA 2 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-42.38	-13	-29.38	-72.28	-49.68	1.94	11.39	H
	11104	-37.42	-13	-24.42	-73.55	-43.65	2.24	10.62	H
	14805	-30.29	-13	-17.29	-72.21	-38.33	2.58	12.77	H
	18506	-62.85	-13	-49.85	-74.13	-75.05	3.24	17.59	H
	22208	-61.34	-13	-48.34	-76.17	-74.53	3.52	18.86	H
	25909	-58.99	-13	-45.99	-76.95	-72.00	3.92	19.08	H
	7403	-42.58	-13	-29.58	-72.58	-49.88	1.94	11.39	V
	11104	-37.33	-13	-24.33	-73.41	-43.56	2.24	10.62	V
	14805	-28.79	-13	-15.79	-71.82	-36.83	2.58	12.77	V
	18506	-63.36	-13	-50.36	-74.42	-75.56	3.24	17.59	V
	22208	-62.12	-13	-49.12	-76.55	-75.31	3.52	18.86	V
	25909	-59.87	-13	-46.87	-77.52	-72.88	3.92	19.08	V
Middle	7583	-43.45	-13	-30.45	-72.97	-50.94	1.90	11.53	H
	11374	-36.49	-13	-23.49	-72.91	-42.94	2.35	10.95	H
	15165	-30.70	-13	-17.70	-71.96	-39.87	2.60	13.93	H
	18956	-63.14	-13	-50.14	-74.11	-74.88	3.26	17.14	H
	22748	-60.29	-13	-47.29	-75.97	-73.29	3.55	18.70	H
	26539	-58.17	-13	-45.17	-76.98	-70.75	3.93	18.65	H
	7583	-42.98	-13	-29.98	-72.67	-50.47	1.90	11.53	V
	11374	-36.72	-13	-23.72	-73.21	-43.17	2.35	10.95	V
	15165	-29.21	-13	-16.21	-71.55	-38.38	2.60	13.93	V
	18956	-64.68	-13	-51.68	-75.42	-76.42	3.26	17.14	V
	22748	-60.90	-13	-47.90	-76.2	-73.90	3.55	18.70	V
	26539	-58.57	-13	-45.57	-77	-71.15	3.93	18.65	V



Highest	7763	-42.46	-13	-29.46	-72.25	-50.11	1.88	11.68	H
	11644	-35.41	-13	-22.41	-72.56	-42.42	2.46	11.62	H
	15525	-31.38	-13	-18.38	-71.46	-42.00	2.70	15.47	H
	19406	-62.83	-13	-49.83	-74.54	-74.88	3.23	17.42	H
	23287	-59.58	-13	-46.58	-75.89	-72.45	3.63	18.66	H
	27168	-57.87	-13	-44.87	-77.71	-71.16	3.93	19.37	H
	7763	-42.23	-13	-29.23	-72.29	-49.88	1.88	11.68	V
	11644	-35.51	-13	-22.51	-72.57	-42.52	2.46	11.62	V
	15525	-30.71	-13	-17.71	-71.06	-41.33	2.70	15.47	V
	19406	-64.05	-13	-51.05	-75.5	-76.10	3.23	17.42	V
	23287	-59.71	-13	-46.71	-75.7	-72.58	3.63	18.66	V
	27168	-58.36	-13	-45.36	-77.84	-71.65	3.93	19.37	V

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



<DA 4 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-41.96	-13	-28.96	-71.86	-49.26	1.94	11.39	H
	11104	-49.80	-13	-36.80	-72.93	-56.03	2.24	10.62	H
	14805	-29.56	-13	-16.56	-71.48	-37.60	2.58	12.77	H
	18506	-63.15	-13	-50.15	-74.43	-75.35	3.24	17.59	H
	22208	-61.65	-13	-48.65	-76.48	-74.84	3.52	18.86	H
	25909	-59.22	-13	-46.22	-77.18	-72.23	3.92	19.08	H
	7403	-41.59	-13	-28.59	-71.59	-48.89	1.94	11.39	V
	11104	-36.49	-13	-23.49	-72.57	-42.72	2.24	10.62	V
	14805	-28.96	-13	-15.96	-71.99	-37.00	2.58	12.77	V
	18506	-63.05	-13	-50.05	-74.11	-75.25	3.24	17.59	V
	22208	-61.92	-13	-48.92	-76.35	-75.11	3.52	18.86	V
	25909	-59.65	-13	-46.65	-77.3	-72.66	3.92	19.08	V
Middle	7583	-42.73	-13	-29.73	-72.25	-50.22	1.90	11.53	H
	11374	-36.06	-13	-23.06	-72.48	-42.51	2.35	10.95	H
	15165	-30.28	-13	-17.28	-71.54	-39.45	2.60	13.93	H
	18956	-64.34	-13	-51.34	-75.31	-76.08	3.26	17.14	H
	22748	-60.58	-13	-47.58	-76.26	-73.58	3.55	18.70	H
	26539	-58.33	-13	-45.33	-77.14	-70.91	3.93	18.65	H
	7583	-42.81	-13	-29.81	-72.5	-50.30	1.90	11.53	V
	11374	-36.30	-13	-23.30	-72.79	-42.75	2.35	10.95	V
	15165	-29.03	-13	-16.03	-71.37	-38.20	2.60	13.93	V
	18956	-64.18	-13	-51.18	-74.92	-75.92	3.26	17.14	V
	22748	-61.15	-13	-48.15	-76.45	-74.15	3.55	18.70	V
	26539	-58.96	-13	-45.96	-77.39	-71.54	3.93	18.65	V



Highest	7763	-42.27	-13	-29.27	-72.06	-49.92	1.88	11.68	H
	11644	-34.84	-13	-21.84	-71.99	-41.85	2.46	11.62	H
	15525	-30.72	-13	-17.72	-70.8	-41.34	2.70	15.47	H
	19406	-63.79	-13	-50.79	-75.5	-75.84	3.23	17.42	H
	23287	-58.40	-13	-45.40	-74.71	-71.27	3.63	18.66	H
	27168	-57.34	-13	-44.34	-77.18	-70.63	3.93	19.37	H
	7763	-42.11	-13	-29.11	-72.17	-49.76	1.88	11.68	V
	11644	-34.54	-13	-21.54	-71.6	-41.55	2.46	11.62	V
	15525	-30.35	-13	-17.35	-70.7	-40.97	2.70	15.47	V
	19406	-63.43	-13	-50.43	-74.88	-75.48	3.23	17.42	V
	23287	-59.29	-13	-46.29	-75.28	-72.16	3.63	18.66	V
	27168	-58.46	-13	-45.46	-77.94	-71.75	3.93	19.37	V

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



<MIMO Mode>

MIMO <OAI 4 Antenna + OAI 2 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-41.64	-13	-28.64	-71.54	-48.94	1.94	11.39	H
	11104	-36.14	-13	-23.14	-72.27	-42.37	2.24	10.62	H
	14805	-29.01	-13	-16.01	-70.93	-37.05	2.58	12.77	H
	18506	-62.08	-13	-49.08	-73.36	-74.28	3.24	17.59	H
	22207	-58.57	-13	-45.57	-73.4	-71.76	3.52	18.86	H
	25908	-58.69	-13	-45.69	-76.65	-71.70	3.92	19.08	H
	7403	-41.79	-13	-28.79	-71.79	-49.09	1.94	11.39	V
	11104	-36.39	-13	-23.39	-72.47	-42.62	2.24	10.62	V
	14805	-27.67	-13	-14.67	-70.7	-35.71	2.58	12.77	V
	18506	-60.97	-13	-47.97	-72.03	-73.17	3.24	17.59	V
	22207	-59.30	-13	-46.30	-73.73	-72.49	3.52	18.86	V
	25908	-59.24	-13	-46.24	-76.89	-72.25	3.92	19.08	V
Middle	7583	-42.40	-13	-29.40	-71.92	-49.89	1.90	11.53	H
	11374	-35.86	-13	-22.86	-72.28	-42.31	2.35	10.95	H
	15165	-29.46	-13	-16.46	-70.72	-38.63	2.60	13.93	H
	18956	-61.15	-13	-48.15	-72.12	-72.89	3.26	17.14	H
	22748	-60.47	-13	-47.47	-76.15	-73.47	3.55	18.70	H
	26539	-58.41	-13	-45.41	-77.22	-70.99	3.93	18.65	H
	7583	-42.28	-13	-29.28	-71.97	-49.77	1.90	11.53	V
	11374	-35.44	-13	-22.44	-71.93	-41.89	2.35	10.95	V
	15165	-28.65	-13	-15.65	-70.99	-37.82	2.60	13.93	V
	18956	-60.72	-13	-47.72	-71.46	-72.46	3.26	17.14	V
	22748	-59.32	-13	-46.32	-74.62	-72.32	3.55	18.70	V
	26539	-58.44	-13	-45.44	-76.87	-71.02	3.93	18.65	V



Highest	7763	-41.47	-13	-28.47	-71.26	-49.12	1.88	11.68	H
	11644	-34.14	-13	-21.14	-71.29	-41.15	2.46	11.62	H
	15525	-30.77	-13	-17.77	-70.85	-41.39	2.70	15.47	H
	19406	-54.05	-13	-41.05	-65.76	-66.10	3.23	17.42	H
	23287	-57.75	-13	-44.75	-74.06	-70.62	3.63	18.66	H
	27168	-55.21	-13	-42.21	-75.05	-68.50	3.93	19.37	H
	7763	-41.48	-13	-28.48	-71.54	-49.13	1.88	11.68	V
	11644	-34.49	-13	-21.49	-71.55	-41.50	2.46	11.62	V
	15525	-30.52	-13	-17.52	-70.87	-41.14	2.70	15.47	V
	19406	-57.86	-13	-44.86	-69.31	-69.91	3.23	17.42	V
	23287	-57.73	-13	-44.73	-73.72	-70.60	3.63	18.66	V
	27168	-56.15	-13	-43.15	-75.63	-69.44	3.93	19.37	V

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



MIMO <EA 4 Antenna + EA 2 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-42.34	-13	-29.34	-72.24	-49.64	1.94	11.39	H
	11104	-37.21	-13	-24.21	-73.34	-43.44	2.24	10.62	H
	14805	-30.19	-13	-17.19	-72.11	-38.23	2.58	12.77	H
	18506	-63.77	-13	-50.77	-75.05	-75.97	3.24	17.59	H
	22207	-61.88	-13	-48.88	-76.71	-75.07	3.52	18.86	H
	25908	-59.73	-13	-46.73	-77.69	-72.74	3.92	19.08	H
	7403	-42.07	-13	-29.07	-72.07	-49.37	1.94	11.39	V
	11104	-37.05	-13	-24.05	-73.13	-43.28	2.24	10.62	V
	14805	-28.67	-13	-15.67	-71.7	-36.71	2.58	12.77	V
	18506	-62.85	-13	-49.85	-73.91	-75.05	3.24	17.59	V
	22207	-62.58	-13	-49.58	-77.01	-75.77	3.52	18.86	V
	25908	-60.18	-13	-47.18	-77.83	-73.19	3.92	19.08	V
Middle	7583	-43.16	-13	-30.16	-72.68	-50.65	1.90	11.53	H
	11374	-36.33	-13	-23.33	-72.75	-42.78	2.35	10.95	H
	15165	-30.52	-13	-17.52	-71.78	-39.69	2.60	13.93	H
	18956	-64.93	-13	-51.93	-75.9	-76.67	3.26	17.14	H
	22747	-61.18	-13	-48.18	-76.86	-74.18	3.55	18.70	H
	26538	-58.47	-13	-45.47	-77.28	-71.04	3.93	18.65	H
	7583	-42.65	-13	-29.65	-72.34	-50.14	1.90	11.53	V
	11374	-36.03	-13	-23.03	-72.52	-42.48	2.35	10.95	V
	15165	-29.10	-13	-16.10	-71.44	-38.27	2.60	13.93	V
	18956	-64.55	-13	-51.55	-75.29	-76.29	3.26	17.14	V
	22747	-57.87	-13	-44.87	-73.17	-70.87	3.55	18.70	V
	26538	-59.02	-13	-46.02	-77.45	-71.59	3.93	18.65	V



Highest	7763	-42.47	-13	-29.47	-72.26	-50.12	1.88	11.68	H
	11644	-35.16	-13	-22.16	-72.31	-42.17	2.46	11.62	H
	15525	-30.92	-13	-17.92	-71	-41.54	2.70	15.47	H
	19406	-63.92	-13	-50.92	-75.63	-75.97	3.23	17.42	H
	23287	-60.27	-13	-47.27	-76.58	-73.14	3.63	18.66	H
	27168	-57.98	-13	-44.98	-77.82	-71.27	3.93	19.37	H
	7763	-41.36	-13	-28.36	-71.42	-49.01	1.88	11.68	V
	11644	-35.48	-13	-22.48	-72.54	-42.49	2.46	11.62	V
	15525	-31.36	-13	-18.36	-71.71	-41.98	2.70	15.47	V
	19406	-63.64	-13	-50.64	-75.09	-75.69	3.23	17.42	V
	23287	-59.82	-13	-46.82	-75.81	-72.69	3.63	18.66	V
	27168	-58.45	-13	-45.45	-77.93	-71.74	3.93	19.37	V

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



MIMO <DA 4 Antenna + DA 2 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-42.22	-13	-29.22	-72.12	-49.52	1.94	11.39	H
	11104	-36.73	-13	-23.73	-72.86	-42.96	2.24	10.62	H
	14805	-29.90	-13	-16.90	-71.82	-37.94	2.58	12.77	H
	18506	-48.98	-13	-35.98	-60.26	-61.18	3.24	17.59	H
	22208	-60.62	-13	-47.62	-75.45	-73.81	3.52	18.86	H
	25909	-58.70	-13	-45.70	-76.66	-71.71	3.92	19.08	H
	7403	-41.94	-13	-28.94	-71.94	-49.24	1.94	11.39	V
	11104	-36.96	-13	-23.96	-73.04	-43.19	2.24	10.62	V
	14805	-28.65	-13	-15.65	-71.68	-36.69	2.58	12.77	V
	18506	-55.24	-13	-42.24	-66.3	-67.44	3.24	17.59	V
	22208	-59.65	-13	-46.65	-74.08	-72.84	3.52	18.86	V
	25909	-55.16	-13	-42.16	-72.81	-68.17	3.92	19.08	V
Middle	7583	-42.47	-13	-29.47	-71.99	-49.96	1.90	11.53	H
	11374	-36.06	-13	-23.06	-72.48	-42.51	2.35	10.95	H
	15165	-29.82	-13	-16.82	-71.08	-38.99	2.60	13.93	H
	18956	-58.54	-13	-45.54	-69.51	-70.28	3.26	17.14	H
	22748	-57.67	-13	-44.67	-73.35	-70.67	3.55	18.70	H
	26539	-58.35	-13	-45.35	-77.16	-70.93	3.93	18.65	H
	7583	-42.46	-13	-29.46	-72.15	-49.95	1.90	11.53	V
	11374	-35.96	-13	-22.96	-72.45	-42.41	2.35	10.95	V
	15165	-28.64	-13	-15.64	-70.95	-37.81	2.60	13.93	V
	18956	-59.23	-13	-46.23	-69.97	-70.97	3.26	17.14	V
	22748	-57.30	-13	-44.30	-72.6	-70.30	3.55	18.70	V
	26539	-58.84	-13	-45.84	-77.27	-71.42	3.93	18.65	V



Highest	7763	-42.40	-13	-29.40	-72.19	-50.05	1.88	11.68	H
	11644	-34.95	-13	-21.95	-72.1	-41.96	2.46	11.62	H
	15525	-31.07	-13	-18.07	-71.15	-41.69	2.70	15.47	H
	19406	-63.45	-13	-50.45	-75.16	-75.50	3.23	17.42	H
	23287	-56.76	-13	-43.76	-73.07	-69.63	3.63	18.66	H
	27168	-57.73	-13	-44.73	-77.57	-71.02	3.93	19.37	H
	7763	-42.17	-13	-29.17	-72.23	-49.82	1.88	11.68	V
	11644	-34.93	-13	-21.93	-71.99	-41.94	2.46	11.62	V
	15525	-30.78	-13	-17.78	-71.13	-41.40	2.70	15.47	V
	19406	-64.02	-13	-51.02	-75.47	-76.07	3.23	17.42	V
	23287	-57.79	-13	-44.79	-73.78	-70.66	3.63	18.66	V
	27168	-58.27	-13	-45.27	-77.75	-71.56	3.93	19.37	V

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



MIMO <OA 6 Antenna + OAI 2 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-42.60	-13	-29.60	-72.51	-49.90	1.94	11.39	H
	11104	-37.31	-13	-24.31	-73.44	-43.54	2.24	10.62	H
	14805	-30.40	-13	-17.40	-72.31	-38.44	2.58	12.77	H
	18506	-62.38	-13	-49.38	-73.66	-74.58	3.24	17.59	H
	22207	-56.41	-13	-43.41	-71.24	-69.60	3.52	18.86	H
	25908	-59.28	-13	-46.28	-77.24	-72.29	3.92	19.08	H
	7403	-42.44	-13	-29.44	-72.44	-49.74	1.94	11.39	V
	11104	-37.73	-13	-24.73	-73.81	-43.96	2.24	10.62	V
	14805	-29.23	-13	-16.23	-72.26	-37.27	2.58	12.77	V
	18506	-61.64	-13	-48.64	-72.7	-73.84	3.24	17.59	V
	22207	-58.35	-13	-45.35	-72.78	-71.54	3.52	18.86	V
	25908	-59.32	-13	-46.32	-76.97	-72.33	3.92	19.08	V
Middle	7583	-43.00	-13	-30.00	-72.52	-50.49	1.90	11.53	H
	11374	-36.58	-13	-23.58	-73	-43.03	2.35	10.95	H
	15165	-30.66	-13	-17.66	-71.9	-39.83	2.60	13.93	H
	18956	-64.22	-13	-51.22	-75.19	-75.96	3.26	17.14	H
	22747	-60.09	-13	-47.09	-75.77	-73.09	3.55	18.70	H
	26538	-57.79	-13	-44.79	-76.6	-70.36	3.93	18.65	H
	7583	-42.84	-13	-29.84	-72.53	-50.33	1.90	11.53	V
	11374	-36.58	-13	-23.58	-73.07	-43.03	2.35	10.95	V
	15165	-29.48	-13	-16.48	-71.8	-38.65	2.60	13.93	V
	18956	-63.77	-13	-50.77	-74.51	-75.51	3.26	17.14	V
	22747	-59.86	-13	-46.86	-75.16	-72.86	3.55	18.70	V
	26538	-58.70	-13	-45.70	-77.13	-71.27	3.93	18.65	V



Highest	7763	-42.42	-13	-29.42	-72.21	-50.07	1.88	11.68	H
	11644	-35.66	-13	-22.66	-72.8	-42.67	2.46	11.62	H
	15525	-31.25	-13	-18.25	-71.32	-41.87	2.70	15.47	H
	19406	-58.96	-13	-45.96	-70.67	-71.01	3.23	17.42	H
	23287	-57.47	-13	-44.47	-73.78	-70.34	3.63	18.66	H
	27168	-55.11	-13	-42.11	-74.95	-68.40	3.93	19.37	H
	7763	-42.25	-13	-29.25	-72.31	-49.90	1.88	11.68	V
	11644	-35.71	-13	-22.71	-72.77	-42.72	2.46	11.62	V
	15525	-31.27	-13	-18.27	-71.61	-41.89	2.70	15.47	V
	19406	-57.58	-13	-44.58	-69.03	-69.63	3.23	17.42	V
	23287	-57.31	-13	-44.31	-73.3	-70.18	3.63	18.66	V
	27168	-57.37	-13	-44.37	76.85	-70.66	3.93	19.37	V

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



MIMO <OA 5 Antenna + OAI 2 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-42.12	-13	-29.12	-72.03	-49.42	1.94	11.39	H
	11104	-36.96	-13	-23.96	-73.09	-43.19	2.24	10.62	H
	14805	-30.01	-13	-17.01	-71.92	-38.05	2.58	12.77	H
	18509	-59.94	-13	-46.94	-71.22	-72.14	3.24	17.59	H
	22207	-56.58	-13	-43.58	-71.41	-69.77	3.52	18.86	H
	25908	-58.98	-13	-45.98	-76.94	-71.99	3.92	19.08	H
	7403	-41.64	-13	-28.64	-71.64	-48.94	1.94	11.39	V
	11104	-36.76	-13	-23.76	-72.84	-42.99	2.24	10.62	V
	14805	-28.86	-13	-15.86	-71.89	-36.90	2.58	12.77	V
	18509	-60.89	-13	-47.89	-71.95	-73.09	3.24	17.59	V
	22207	-59.30	-13	-46.30	-73.73	-72.49	3.52	18.86	V
	25908	-59.64	-13	-46.64	-77.29	-72.65	3.92	19.08	V
Middle	7583	-42.64	-13	-29.64	-72.16	-50.13	1.90	11.53	H
	11374	-36.33	-13	-23.33	-72.75	-42.78	2.35	10.95	H
	15165	-29.99	-13	-16.99	-71.23	-39.16	2.60	13.93	H
	18956	-58.61	-13	-45.61	-69.58	-70.35	3.26	17.14	H
	22747	-60.37	-13	-47.37	-76.05	-73.37	3.55	18.70	H
	26538	-58.10	-13	-45.10	-76.91	-70.67	3.93	18.65	H
	7583	-42.70	-13	-29.70	-72.39	-50.19	1.90	11.53	V
	11374	-36.37	-13	-23.37	-72.86	-42.82	2.35	10.95	V
	15165	-29.05	-13	-16.05	-71.37	-38.22	2.60	13.93	V
	18956	-62.74	-13	-49.74	-73.48	-74.48	3.26	17.14	V
	22747	-60.69	-13	-47.69	-75.99	-73.69	3.55	18.70	V
	26538	-58.77	-13	-45.77	-77.2	-71.34	3.93	18.65	V



Highest	7763	-42.39	-13	-29.39	-72.18	-50.04	1.88	11.68	H
	11644	-34.99	-13	-21.99	-72.13	-42.00	2.46	11.62	H
	15525	-30.84	-13	-17.84	-70.91	-41.46	2.70	15.47	H
	19406	-57.26	-13	-44.26	-68.97	-69.31	3.23	17.42	H
	23287	-56.67	-13	-43.67	-72.98	-69.54	3.63	18.66	H
	27168	-52.40	-13	-39.40	-72.24	-65.69	3.93	19.37	H
	7763	-41.70	-13	-28.70	-71.76	-49.35	1.88	11.68	V
	11644	-35.36	-13	-22.36	-72.42	-42.37	2.46	11.62	V
	15525	-31.18	-13	-18.18	-71.52	-41.80	2.70	15.47	V
	19406	-56.23	-13	-43.23	-67.68	-68.28	3.23	17.42	V
	23287	-57.64	-13	-44.64	-73.63	-70.51	3.63	18.66	V
	27168	-55.64	-13	-42.64	-75.12	-68.93	3.93	19.37	V

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



MIMO <OA 5 Antenna + OAI 4 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-42.33	-13	-29.33	-72.24	-49.63	1.94	11.39	H
	11104	-25.15	-13	-12.15	-61.27	-31.38	2.24	10.62	H
	14805	-31.63	-13	-18.63	-73.54	-39.67	2.58	12.77	H
	18506	-44.91	-13	-31.91	-54.49	-57.11	3.24	17.59	H
	22208	-41.44	-13	-28.44	-54.91	-54.63	3.52	18.86	H
	25909	-48.52	-13	-35.52	-66.38	-61.53	3.92	19.08	H
	7403	-42.44	-13	-29.44	-72.44	-49.74	1.94	11.39	V
	11104	-23.43	-13	-10.43	-59.51	-29.66	2.24	10.62	V
	14805	-30.32	-13	-17.32	-73.35	-38.36	2.58	12.77	V
	18506	-50.12	-13	-37.12	-59.48	-62.32	3.24	17.59	V
	22208	-37.98	-13	-24.98	-51.05	-51.17	3.52	18.86	V
	25909	-52.23	-13	-39.23	-69.78	-65.24	3.92	19.08	V
Middle	7583	-34.75	-13	-21.75	-64.27	-42.24	1.90	11.53	H
	11374	-23.13	-13	-10.13	-59.55	-29.58	2.35	10.95	H
	15165	-31.55	-13	-18.55	-72.79	-40.72	2.60	13.93	H
	18956	-38.76	-13	-25.76	-48.3	-50.50	3.26	17.14	H
	22748	-41.17	-13	-28.17	-55.6	-54.17	3.55	18.70	H
	26539	-48.11	-13	-35.11	-66.38	-60.69	3.93	18.65	H
	7583	-41.12	-13	-28.12	-70.81	-48.61	1.90	11.53	V
	11374	-23.69	-13	-10.69	-60.18	-30.14	2.35	10.95	V
	15165	-30.43	-13	-17.43	-72.75	-39.60	2.60	13.93	V
	18956	-46.41	-13	-33.41	-55.72	-58.15	3.26	17.14	V
	22748	-40.82	-13	-27.82	-54.87	-53.82	3.55	18.70	V
	26539	-42.77	-13	-29.77	-60.66	-55.35	3.93	18.65	V



Highest	7763	-33.04	-13	-20.04	-62.83	-40.69	1.88	11.68	H
	11644	-26.51	-13	-13.51	-63.65	-33.52	2.46	11.62	H
	15525	-32.50	-13	-19.50	-72.57	-43.12	2.70	15.47	H
	19406	-30.82	-13	-17.82	-40.97	-42.87	3.23	17.42	H
	23287	-41.98	-13	-28.98	-57.26	-54.85	3.63	18.66	H
	27168	-36.40	-13	-23.40	-55.41	-49.69	3.93	19.37	H
	7763	-38.46	-13	-25.46	-68.52	-46.11	1.88	11.68	V
	11644	-28.10	-13	-15.10	-65.16	-35.11	2.46	11.62	V
	15525	-31.70	-13	-18.70	-72.04	-42.32	2.70	15.47	V
	19406	-38.44	-13	-25.44	-48.33	-50.49	3.23	17.42	V
	23287	-44.82	-13	-31.82	-59.78	-57.69	3.63	18.66	V
	27168	-40.97	-13	-27.97	-59.62	-54.26	3.93	19.37	V

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



MIMO <OA 6 Antenna + OAI 4 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-42.09	-13	-29.09	-71.99	-49.39	1.94	11.39	H
	11104	-27.87	-13	-14.87	-64	-34.10	2.24	10.62	H
	14805	-30.79	-13	-17.79	-72.71	-38.83	2.58	12.77	H
	18506	-58.37	-13	-45.37	-67.95	-70.57	3.24	17.59	H
	22208	-51.64	-13	-38.64	-65.11	-64.83	3.52	18.86	H
	25909	-58.49	-13	-45.49	-76.35	-71.50	3.92	19.08	H
	7403	-41.52	-13	-28.52	-71.52	-48.82	1.94	11.39	V
	11104	-25.80	-13	-12.80	-61.88	-32.03	2.24	10.62	V
	14805	-29.97	-13	-16.97	-73	-38.01	2.58	12.77	V
	18506	-48.93	-13	-35.93	-58.29	-61.13	3.24	17.59	V
	22208	-44.03	-13	-31.03	-57.1	-57.22	3.52	18.86	V
	25909	-52.17	-13	-39.17	-69.72	-65.18	3.92	19.08	V
Middle	7583	-42.09	-13	-29.09	-71.61	-49.58	1.90	11.53	H
	11374	-24.62	-13	-11.62	-61.04	-31.07	2.35	10.95	H
	15165	-31.18	-13	-18.18	-72.44	-40.35	2.60	13.93	H
	18956	-47.52	-13	-34.52	-57.06	-59.26	3.26	17.14	H
	22748	-52.03	-13	-39.03	-66.46	-65.03	3.55	18.70	H
	26539	-50.69	-13	-37.69	-68.96	-63.27	3.93	18.65	H
	7583	-39.19	-13	-26.19	-68.88	-46.68	1.90	11.53	V
	11374	-27.35	-13	-14.35	-63.84	-33.80	2.35	10.95	V
	15165	-29.52	-13	-16.52	-71.86	-38.69	2.60	13.93	V
	18956	-40.62	-13	-27.62	-49.93	-52.36	3.26	17.14	V
	22748	-40.78	-13	-27.78	-54.83	-53.78	3.55	18.70	V
	26539	-43.33	-13	-30.33	-61.22	-55.91	3.93	18.65	V



Highest	7763	-39.86	-13	-26.86	-69.65	-47.51	1.88	11.68	H
	11644	-24.41	-13	-11.41	-61.56	-31.42	2.46	11.62	H
	15525	-32.15	-13	-19.15	-72.23	-42.77	2.70	15.47	H
	19406	-46.52	-13	-33.52	-56.67	-58.57	3.23	17.42	H
	23287	-51.36	-13	-38.36	-66.64	-64.23	3.63	18.66	H
	27168	-45.45	-13	-32.45	-64.46	-58.74	3.93	19.37	H
	7763	-36.54	-13	-23.54	-66.6	-44.19	1.88	11.68	V
	11644	-24.74	-13	-11.74	-61.8	-31.75	2.46	11.62	V
	15525	-31.72	-13	-18.72	-72.07	-42.34	2.70	15.47	V
	19406	-39.88	-13	-26.88	-49.77	-51.93	3.23	17.42	V
	23287	-46.37	-13	-33.37	-61.33	-59.24	3.63	18.66	V
	27168	-45.74	-13	-32.74	-64.39	-59.03	3.93	19.37	V

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



MIMO <OA 5 Antenna + OA 6 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-41.65	-13	-28.65	-71.55	-48.95	1.94	11.39	H
	11104	-35.61	-13	-22.61	-71.74	-41.84	2.24	10.62	H
	14805	-30.84	-13	-17.84	-72.76	-38.88	2.58	12.77	H
	18506	-51.42	-13	-38.42	-61	-63.62	3.24	17.59	H
	22207	-44.05	-13	-31.05	-57.52	-57.24	3.52	18.86	H
	25908	-52.67	-13	-39.67	-123	-65.68	3.92	19.08	H
	7403	-40.66	-13	-27.66	-70.66	-47.96	1.94	11.39	V
	11104	-36.72	-13	-23.72	-72.8	-42.95	2.24	10.62	V
	14805	-29.59	-13	-16.59	-72.62	-37.63	2.58	12.77	V
	18506	-46.03	-13	-33.03	-55.39	-58.23	3.24	17.59	V
	22207	-57.43	-13	-44.43	-70.5	-70.62	3.52	18.86	V
	25908	-51.90	-13	-38.90	-69.45	-64.91	3.92	19.08	V
Middle	7583	-42.21	-13	-29.21	-71.73	-49.70	1.90	11.53	H
	11374	-36.21	-13	-23.21	-72.63	-42.66	2.35	10.95	H
	15165	-30.90	-13	-17.90	-72.16	-40.07	2.60	13.93	H
	18956	-45.42	-13	-32.42	-54.96	-57.16	3.26	17.14	H
	22747	-42.94	-13	-29.94	-57.37	-55.94	3.55	18.70	H
	26538	-46.92	-13	-33.92	-65.19	-59.49	3.93	18.65	H
	7583	-41.49	-13	-28.49	-71.18	-48.98	1.90	11.53	V
	11374	-35.65	-13	-22.65	-72.14	-42.10	2.35	10.95	V
	15165	-30.03	-13	-17.03	-72.37	-39.20	2.60	13.93	V
	18956	-43.05	-13	-30.05	-52.36	-54.79	3.26	17.14	V
	22747	-41.77	-13	-28.77	-55.82	-54.77	3.55	18.70	V
	26538	-39.50	-13	-26.50	-57.39	-52.07	3.93	18.65	V



Highest	7763	-41.85	-13	-28.85	-71.64	-49.50	1.88	11.68	H
	11644	-35.43	-13	-22.43	-72.58	-42.44	2.46	11.62	H
	15525	-32.12	-13	-19.12	-72.2	-42.74	2.70	15.47	H
	19406	-42.35	-13	-29.35	-52.5	-54.40	3.23	17.42	H
	23287	-46.31	-13	-33.31	-61.59	-59.18	3.63	18.66	H
	27168	-53.37	-13	-40.37	-72.38	-66.66	3.93	19.37	H
	7763	-41.26	-13	-28.26	-71.32	-48.91	1.88	11.68	V
	11644	-35.64	-13	-22.64	-72.7	-42.65	2.46	11.62	V
	15525	-31.84	-13	-18.84	-72.19	-42.46	2.70	15.47	V
	19406	-39.89	-13	-26.89	-49.78	-51.94	3.23	17.42	V
	23287	-42.17	-13	-29.17	-57.12	-55.04	3.63	18.66	V
	27168	-44.85	-13	-31.85	-63.5	-58.14	3.93	19.37	V

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



MIMO <EA 1_5 Antenna + EA 2 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-41.94	-13	-28.94	-71.84	-49.24	1.94	11.39	H
	11104	-36.43	-13	-23.43	-72.56	-42.66	2.24	10.62	H
	14805	-29.71	-13	-16.71	-71.63	-37.75	2.58	12.77	H
	18506	-60.19	-13	-47.19	-71.47	-72.39	3.24	17.59	H
	22207	-61.22	-13	-48.22	-76.05	-74.41	3.52	18.86	H
	25908	-59.61	-13	-46.61	-77.57	-72.62	3.92	19.08	H
	7403	-42.27	-13	-29.27	-72.27	-49.57	1.94	11.39	V
	11104	-36.80	-13	-23.80	-72.88	-43.03	2.24	10.62	V
	14805	-28.27	-13	-15.27	-71.3	-36.31	2.58	12.77	V
	18506	-59.61	-13	-46.61	-70.67	-71.81	3.24	17.59	V
	22207	-60.76	-13	-47.76	-75.19	-73.95	3.52	18.86	V
	25908	-59.30	-13	-46.30	-76.95	-72.31	3.92	19.08	V
Middle	7583	-43.05	-13	-30.05	-72.57	-50.54	1.90	11.53	H
	11374	-36.06	-13	-23.06	-72.48	-42.51	2.35	10.95	H
	15165	-30.45	-13	-17.45	-71.71	-39.62	2.60	13.93	H
	18956	-59.77	-13	-46.77	-70.74	-71.51	3.26	17.14	H
	22747	-60.36	-13	-47.36	-76.04	-73.36	3.55	18.70	H
	26538	-58.69	-13	-45.69	-77.5	-71.26	3.93	18.65	H
	7583	-43.23	-13	-30.23	-72.92	-50.72	1.90	11.53	V
	11374	-36.27	-13	-23.27	-72.76	-42.72	2.35	10.95	V
	15165	-29.14	-13	-16.14	-71.48	-38.31	2.60	13.93	V
	18956	-64.38	-13	-51.38	-75.12	-76.12	3.26	17.14	V
	22747	-58.64	-13	-45.64	-73.94	-71.64	3.55	18.70	V
	26538	-58.66	-13	-45.66	-77.09	-71.23	3.93	18.65	V



Highest	7763	-41.77	-13	-28.77	-71.56	-49.42	1.88	11.68	H
	11644	-34.72	-13	-21.72	-71.87	-41.73	2.46	11.62	H
	15525	-31.00	-13	-18.00	-71.08	-41.62	2.70	15.47	H
	19406	-59.38	-13	-46.38	-71.09	-71.43	3.23	17.42	H
	23287	-59.16	-13	-46.16	-75.47	-72.03	3.63	18.66	H
	27168	-58.06	-13	-45.06	-77.9	-71.35	3.93	19.37	H
	7763	-41.64	-13	-28.64	-71.7	-49.29	1.88	11.68	V
	11644	-34.86	-13	-21.86	-71.92	-41.87	2.46	11.62	V
	15525	-30.19	-13	-17.19	-70.54	-40.81	2.70	15.47	V
	19406	-57.44	-13	-44.44	-68.89	-69.49	3.23	17.42	V
	23287	-59.63	-13	-46.63	-75.62	-72.50	3.63	18.66	V
	27168	-58.44	-13	-45.44	-77.92	-71.73	3.93	19.37	V

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



MIMO <EA 1_5 Antenna + EA 4 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-41.80	-13	-28.80	-71.71	-49.10	1.94	11.39	H
	11104	-35.67	-13	-22.67	-71.79	-41.90	2.24	10.62	H
	14805	-30.13	-13	-17.13	-72.04	-38.17	2.58	12.77	H
	18506	-45.21	-13	-32.21	-54.79	-57.41	3.24	17.59	H
	22207	-60.40	-13	-47.40	-73.87	-73.59	3.52	18.86	H
	25908	-57.37	-13	-44.37	-75.23	-70.38	3.92	19.08	H
	7403	-41.74	-13	-28.74	-71.74	-49.04	1.94	11.39	V
	11104	-32.03	-13	-19.03	-68.11	-38.26	2.24	10.62	V
	14805	-28.42	-13	-15.42	-71.45	-36.46	2.58	12.77	V
	18506	-42.00	-13	-29.00	-51.36	-54.20	3.24	17.59	V
	22207	-43.92	-13	-30.92	-56.99	-57.11	3.52	18.86	V
	25908	-55.65	-13	-42.65	-73.2	-68.66	3.92	19.08	V
Middle	7583	-42.36	-13	-29.36	-71.88	-49.85	1.90	11.53	H
	11374	-21.50	-13	-8.50	-57.92	-27.95	2.35	10.95	H
	15165	-29.90	-13	-16.90	-71.14	-39.07	2.60	13.93	H
	18956	-46.01	-13	-33.01	-55.55	-57.75	3.26	17.14	H
	22747	-57.53	-13	-44.53	-71.96	-70.53	3.55	18.70	H
	26538	-50.28	-13	-37.28	-68.55	-62.85	3.93	18.65	H
	7583	-39.93	-13	-26.93	-69.62	-47.42	1.90	11.53	V
	11374	-17.94	-13	-4.94	-54.43	-24.39	2.35	10.95	V
	15165	-28.59	-13	-15.59	-70.91	-37.76	2.60	13.93	V
	18956	-25.87	-13	-12.87	-35.18	-37.61	3.26	17.14	V
	22747	-52.79	-13	-39.79	-66.84	-65.79	3.55	18.70	V
	26538	-45.92	-13	-32.92	-63.81	-58.49	3.93	18.65	V



Highest	7763	-41.44	-13	-28.44	-71.23	-49.09	1.88	11.68	H
	11644	-25.02	-13	-12.02	-62.16	-32.03	2.46	11.62	H
	15525	-30.82	-13	-17.82	-70.89	-41.44	2.70	15.47	H
	19406	-43.32	-13	-30.32	-53.47	-55.37	3.23	17.42	H
	23287	-59.94	-13	-46.94	-75.22	-72.81	3.63	18.66	H
	27168	-52.46	-13	-39.46	-71.47	-65.75	3.93	19.37	H
	7763	-38.35	-13	-25.35	-68.41	-46.00	1.88	11.68	V
	11644	-23.06	-13	-10.06	-60.12	-30.07	2.46	11.62	V
	15525	-30.53	-13	-17.53	-70.87	-41.15	2.70	15.47	V
	19406	-47.80	-13	-34.80	-57.69	-59.85	3.23	17.42	V
	23287	-47.94	-13	-34.94	-62.89	-60.81	3.63	18.66	V
	27168	-45.03	-13	-32.03	-63.68	-58.32	3.93	19.37	V

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



MIMO <EA 1_5 Antenna + EA 3_6 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-42.33	-13	-29.33	-72.24	-49.63	1.94	11.39	H
	11104	-25.15	-13	-12.15	-61.27	-31.38	2.24	10.62	H
	14805	-31.63	-13	-18.63	-73.54	-39.67	2.58	12.77	H
	18506	-62.24	-13	-49.24	-71.82	-74.44	3.24	17.59	H
	22208	-51.98	-13	-38.98	-65.45	-65.17	3.52	18.86	H
	25909	-58.37	-13	-45.37	-76.23	-71.38	3.92	19.08	H
	7403	-42.44	-13	-29.44	-72.44	-49.74	1.94	11.39	V
	11104	-23.43	-13	-10.43	-59.51	-29.66	2.24	10.62	V
	14805	-30.32	-13	-17.32	-73.35	-38.36	2.58	12.77	V
	18506	-51.95	-13	-38.95	-61.31	-64.15	3.24	17.59	V
	22208	-50.32	-13	-37.32	-63.39	-63.51	3.52	18.86	V
	25909	-57.62	-13	-44.62	-75.17	-70.63	3.92	19.08	V
Middle	7583	-41.66	-13	-28.66	-71.56	-49.15	1.90	11.53	H
	11374	-36.12	-13	-23.12	-72.25	-42.57	2.35	10.95	H
	15165	-29.39	-13	-16.39	-71.31	-38.56	2.60	13.93	H
	18956	-59.46	-13	-46.46	-69	-71.20	3.26	17.14	H
	22748	-55.56	-13	-42.56	-69.99	-68.56	3.55	18.70	H
	26539	-58.67	-13	-45.67	-76.94	-71.25	3.93	18.65	H
	7583	-41.91	-13	-28.91	-71.91	-49.40	1.90	11.53	V
	11374	-36.31	-13	-23.31	-72.39	-42.76	2.35	10.95	V
	15165	-28.31	-13	-15.31	-71.34	-37.48	2.60	13.93	V
	18956	-55.04	-13	-42.04	-64.35	-66.78	3.26	17.14	V
	22748	-45.14	-13	-32.14	-59.19	-58.14	3.55	18.70	V
	26539	-49.65	-13	-36.65	-67.54	-62.23	3.93	18.65	V



Highest	7763	-41.86	-13	-28.86	-71.65	-49.51	1.88	11.68	H
	11644	-34.52	-13	-21.52	-71.67	-41.53	2.46	11.62	H
	15525	-30.39	-13	-17.39	-70.47	-41.01	2.70	15.47	H
	19406	-60.46	-13	-47.46	-70.61	-72.51	3.23	17.42	H
	23288	-59.73	-13	-46.73	-75.01	-72.60	3.63	18.66	H
	27169	-57.62	-13	-44.62	-76.63	-70.91	3.93	19.37	H
	7763	-41.51	-13	-28.51	-71.57	-49.16	1.88	11.68	V
	11644	-34.58	-13	-21.58	-71.64	-41.59	2.46	11.62	V
	15525	-29.91	-13	-16.91	-70.26	-40.53	2.70	15.47	V
	19406	-56.37	-13	-43.37	-66.26	-68.42	3.23	17.42	V
	23287	-44.62	-13	-31.62	-59.58	-57.49	3.63	18.66	V
	27168	-58.16	-13	-45.16	-76.81	-71.45	3.93	19.37	V

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



MIMO <EA 3_6 Antenna + EA 2 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-42.00	-13	-29.00	-71.9	-49.30	1.94	11.39	H
	11104	-36.70	-13	-23.70	-72.83	-42.93	2.24	10.62	H
	14805	-29.59	-13	-16.59	-71.51	-37.63	2.58	12.77	H
	18506	-63.46	-13	-50.46	-74.74	-75.66	3.24	17.59	H
	22207	-61.53	-13	-48.53	-76.36	-74.72	3.52	18.86	H
	25908	-59.84	-13	-46.84	-77.8	-72.85	3.92	19.08	H
	7403	-42.14	-13	-29.14	-72.14	-49.44	1.94	11.39	V
	11104	-36.77	-13	-23.77	-72.85	-43.00	2.24	10.62	V
	14805	-28.64	-13	-15.64	-71.67	-36.68	2.58	12.77	V
	18506	-63.10	-13	-50.10	-74.16	-75.30	3.24	17.59	V
	22207	-61.69	-13	-48.69	-76.12	-74.88	3.52	18.86	V
	25908	-59.72	-13	-46.72	-77.37	-72.73	3.92	19.08	V
Middle	7583	-42.69	-13	-29.69	-72.21	-50.18	1.90	11.53	H
	11374	-36.08	-13	-23.08	-72.5	-42.53	2.35	10.95	H
	15165	-30.08	-13	-17.08	-71.34	-39.25	2.60	13.93	H
	18956	-62.71	-13	-49.71	-73.68	-74.45	3.26	17.14	H
	22747	-60.25	-13	-47.25	-75.93	-73.25	3.55	18.70	H
	26538	-58.45	-13	-45.45	-77.26	-71.02	3.93	18.65	H
	7583	-42.63	-13	-29.63	-72.32	-50.12	1.90	11.53	V
	11374	-35.80	-13	-22.80	-72.29	-42.25	2.35	10.95	V
	15165	-28.84	-13	-15.84	-71.18	-38.01	2.60	13.93	V
	18956	-62.60	-13	-49.60	-73.34	-74.34	3.26	17.14	V
	22747	-60.34	-13	-47.34	-75.64	-73.34	3.55	18.70	V
	26538	-58.89	-13	-45.89	-77.32	-71.46	3.93	18.65	V



Highest	7763	-41.93	-13	-28.93	-71.72	-49.58	1.88	11.68	H
	11644	-34.87	-13	-21.87	-72.02	-41.88	2.46	11.62	H
	15525	-31.02	-13	-18.02	-71.1	-41.64	2.70	15.47	H
	19406	-57.80	-13	-44.80	-69.51	-69.85	3.23	17.42	H
	23287	-58.22	-13	-45.22	-74.53	-71.09	3.63	18.66	H
	27168	-57.88	-13	-44.88	-77.72	-71.17	3.93	19.37	H
	7763	-41.71	-13	-28.71	-71.77	-49.36	1.88	11.68	V
	11644	-35.13	-13	-22.13	-72.19	-42.14	2.46	11.62	V
	15525	-30.36	-13	-17.36	-70.71	-40.98	2.70	15.47	V
	19406	-60.20	-13	-47.20	-71.2	-72.25	3.23	17.42	V
	23287	-59.65	-13	-46.65	-75.64	-72.52	3.63	18.66	V
	27168	-58.39	-13	-45.39	-77.87	-71.68	3.93	19.37	V

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



MIMO <EA 3_6 Antenna + EA 4 Antenna>

5G NR n77 HPUE

5G NR n77_HPUE / 100MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7403	-40.70	-13	-27.70	-70.6	-48.00	1.94	11.39	H
	11104	-35.11	-13	-22.11	-71.24	-41.34	2.24	10.62	H
	14805	-29.47	-13	-16.47	-71.39	-37.51	2.58	12.77	H
	18506	-54.10	-13	-41.10	-63.68	-66.30	3.24	17.59	H
	22208	-58.95	-13	-45.95	-72.42	-72.14	3.52	18.86	H
	25909	-51.59	-13	-38.59	-69.45	-64.60	3.92	19.08	H
	7403	-41.56	-13	-28.56	-71.56	-48.86	1.94	11.39	V
	11104	-34.27	-13	-21.27	-70.35	-40.50	2.24	10.62	V
	14805	-28.24	-13	-15.24	-71.27	-36.28	2.58	12.77	V
	18506	-46.28	-13	-33.28	-55.64	-58.48	3.24	17.59	V
	22208	-47.13	-13	-34.13	-60.2	-60.32	3.52	18.86	V
	25909	-55.43	-13	-42.43	-72.98	-68.44	3.92	19.08	V
Middle	7583	-40.81	-13	-27.81	-70.33	-48.30	1.90	11.53	H
	11374	-18.28	-13	-5.28	-54.7	-24.73	2.35	10.95	H
	15165	-30.02	-13	-17.02	-71.28	-39.19	2.60	13.93	H
	18956	-41.41	-13	-28.41	-50.95	-53.15	3.26	17.14	H
	22748	-59.68	-13	-46.68	-74.11	-72.68	3.55	18.70	H
	26539	-45.33	-13	-32.33	-63.6	-57.91	3.93	18.65	H
	7583	-41.34	-13	-28.34	-71.03	-48.83	1.90	11.53	V
	11374	-18.31	-13	-5.31	-54.8	-24.76	2.35	10.95	V
	15165	-28.53	-13	-15.53	-70.87	-37.70	2.60	13.93	V
	18956	-44.57	-13	-31.57	-53.88	-56.31	3.26	17.14	V
	22748	-50.36	-13	-37.36	-64.41	-63.36	3.55	18.70	V
	26539	-49.06	-13	-36.06	-66.95	-61.64	3.93	18.65	V



Highest	7763	-38.13	-13	-25.13	-67.92	-45.78	1.88	11.68	H
	11644	-24.09	-13	-11.09	-61.24	-31.10	2.46	11.62	H
	15525	-30.53	-13	-17.53	-70.61	-41.15	2.70	15.47	H
	19406	-39.75	-13	-26.75	-49.9	-51.80	3.23	17.42	H
	23288	-60.18	-13	-47.18	-75.46	-73.05	3.63	18.66	H
	27169	-53.68	-13	-40.68	-72.69	-66.97	3.93	19.37	H
	7763	-36.60	-13	-23.60	-66.66	-44.25	1.88	11.68	V
	11644	-17.87	-13	-4.87	-54.93	-24.88	2.46	11.62	V
	15525	-29.87	-13	-16.87	-70.22	-40.49	2.70	15.47	V
	19406	-38.66	-13	-25.66	-48.55	-50.71	3.23	17.42	V
	23288	-54.02	-13	-41.02	-68.98	-66.89	3.63	18.66	V
	27169	-46.83	-13	-33.83	-65.48	-60.12	3.93	19.37	V

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