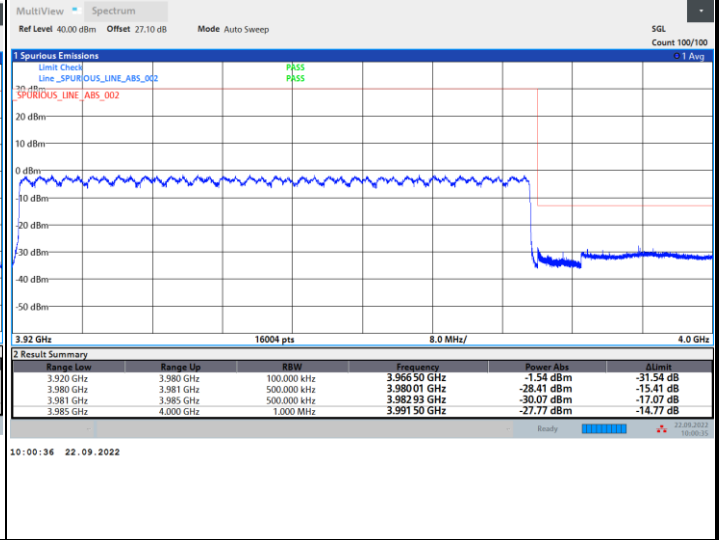
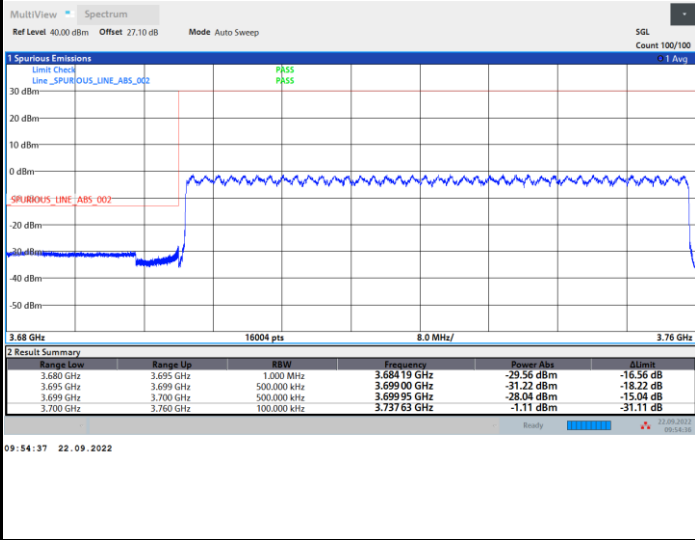




FR1 n77 / 60MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

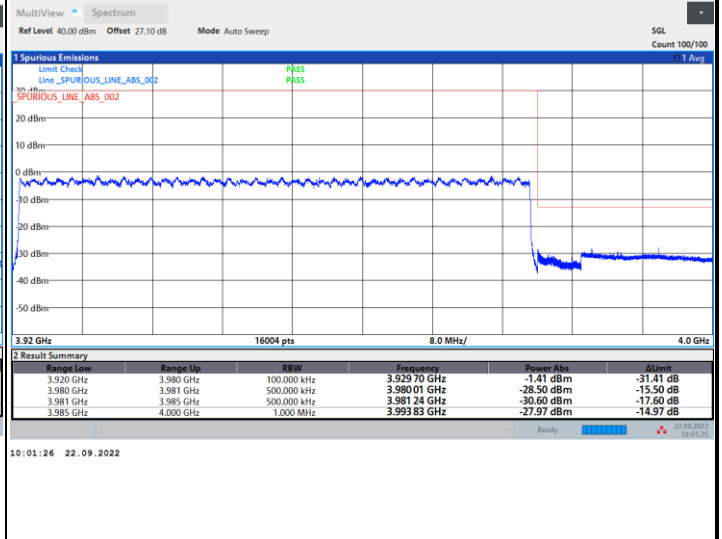
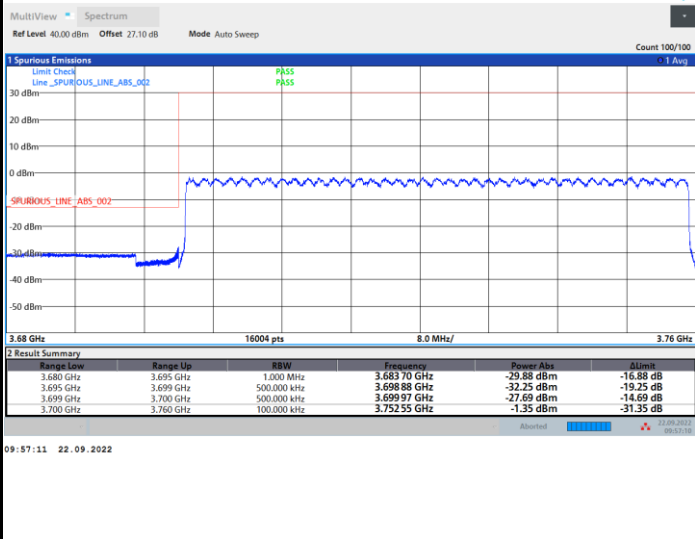
Highest Band Edge / Full RB



FR1 n77 / 60MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

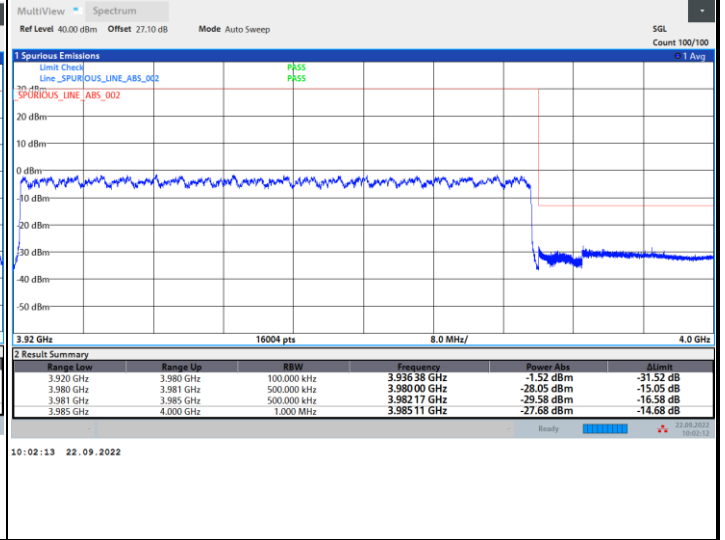
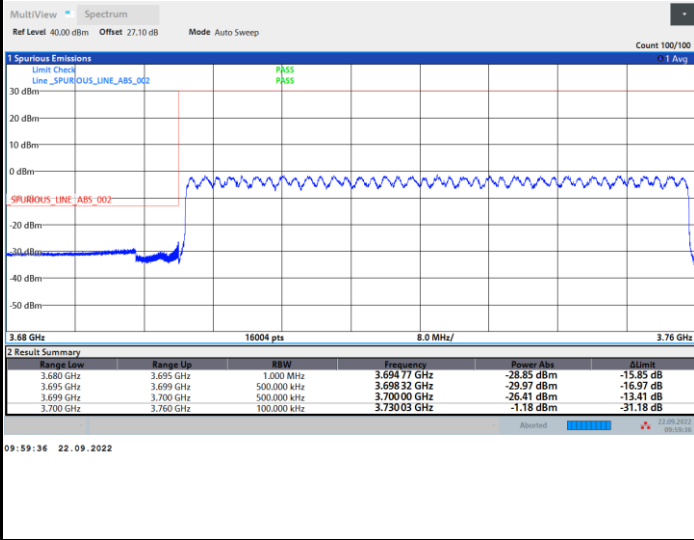




FR1 n77 / 60MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

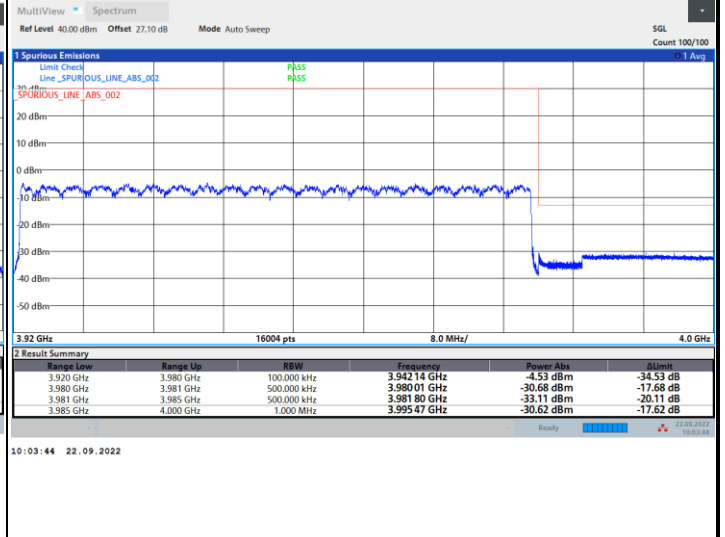
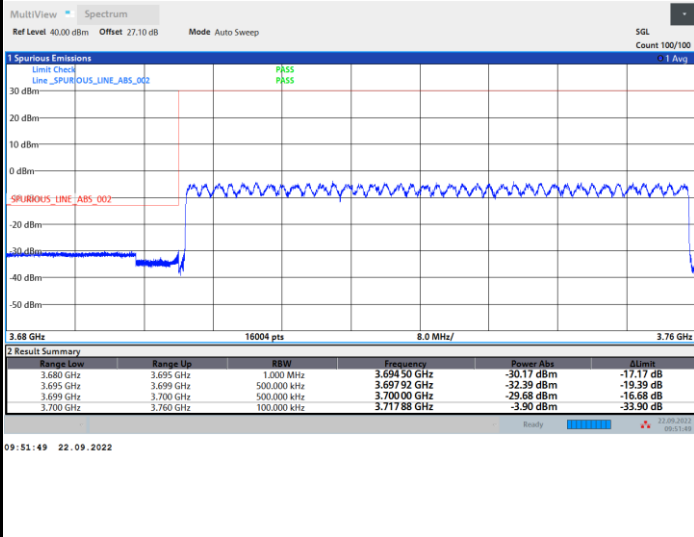
Highest Band Edge / Full RB



FR1 n77 / 60MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

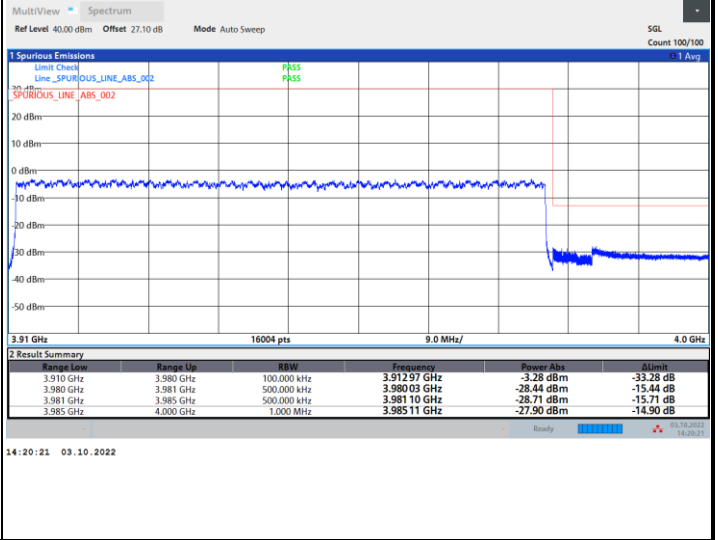
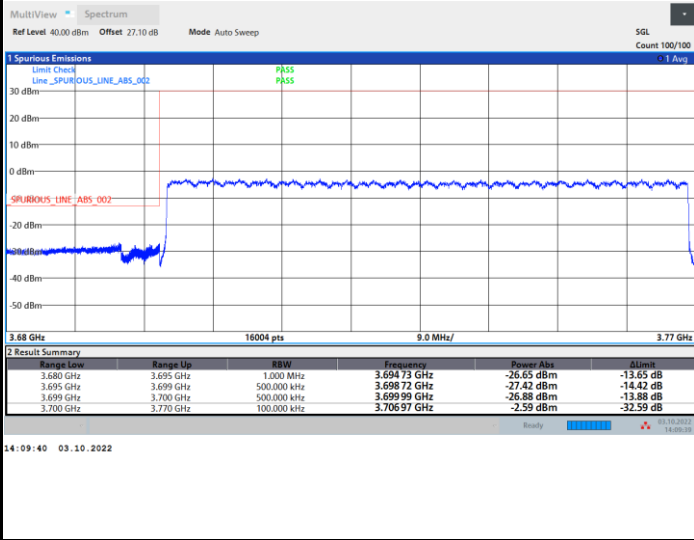




FR1 n77 / 70MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

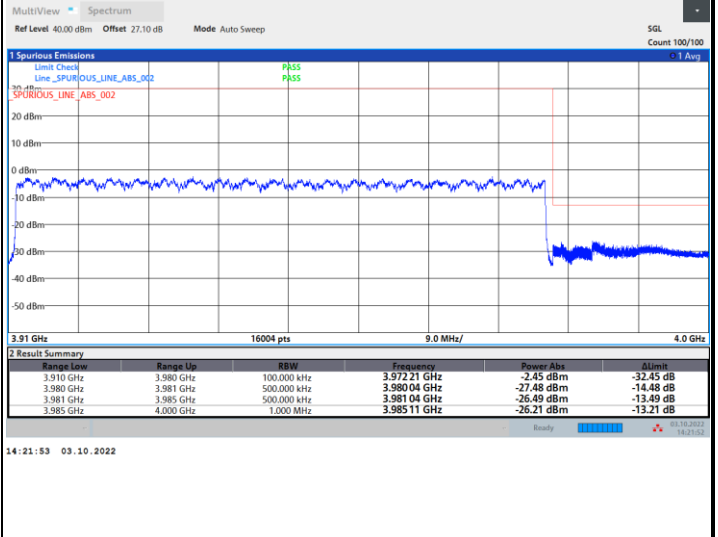
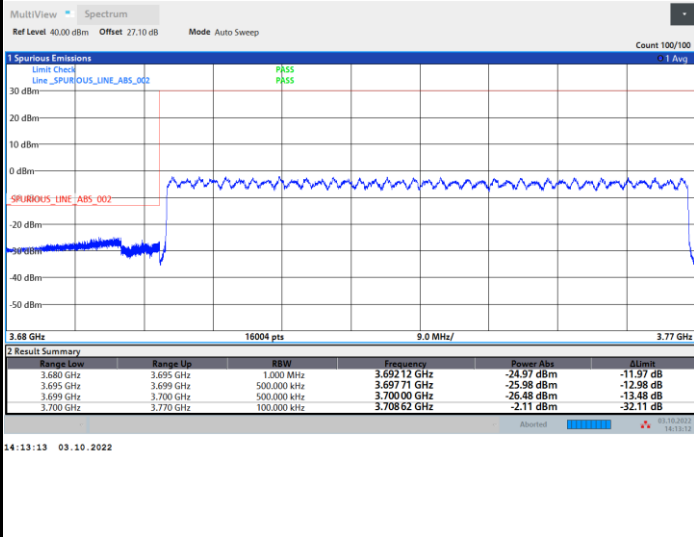
Highest Band Edge / Full RB



FR1 n77 / 70MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

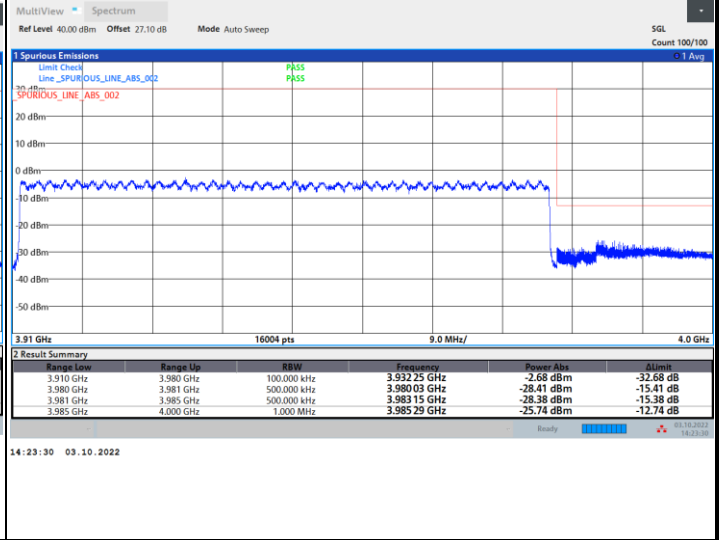
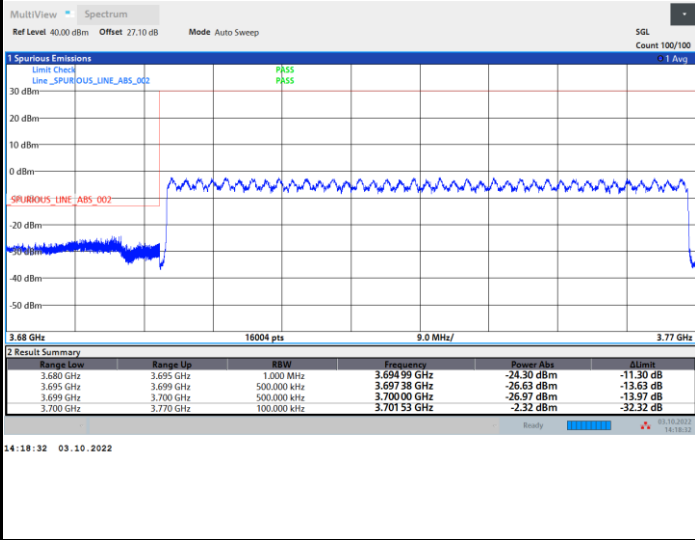




FR1 n77 / 70MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

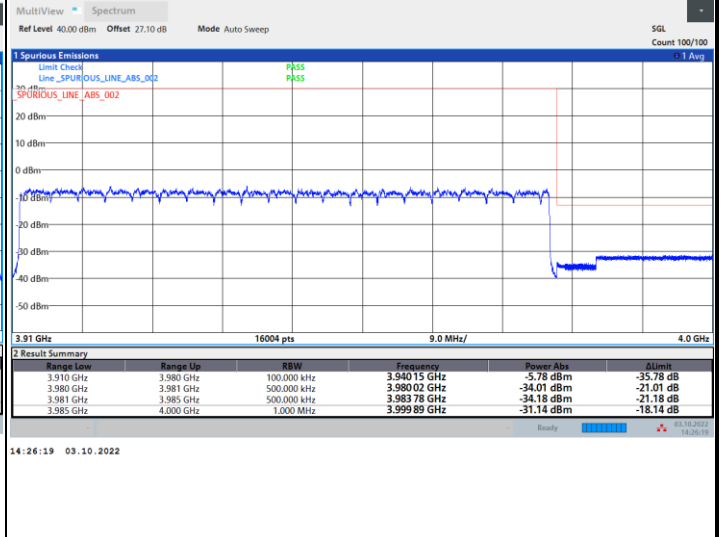
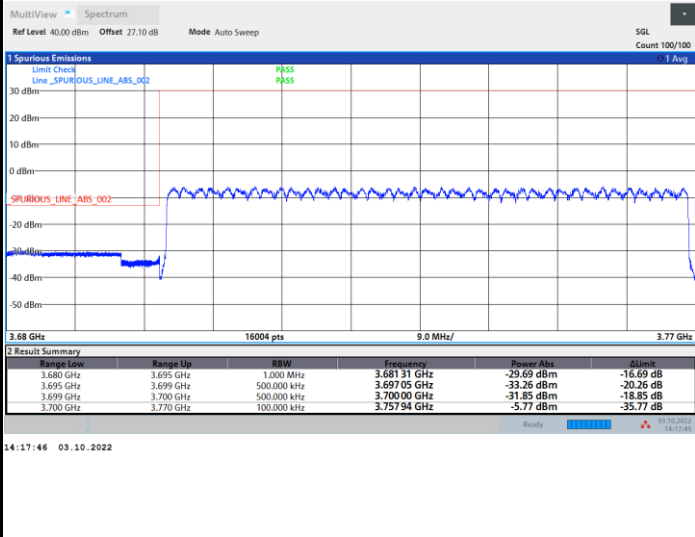
Highest Band Edge / Full RB



FR1 n77 / 70MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

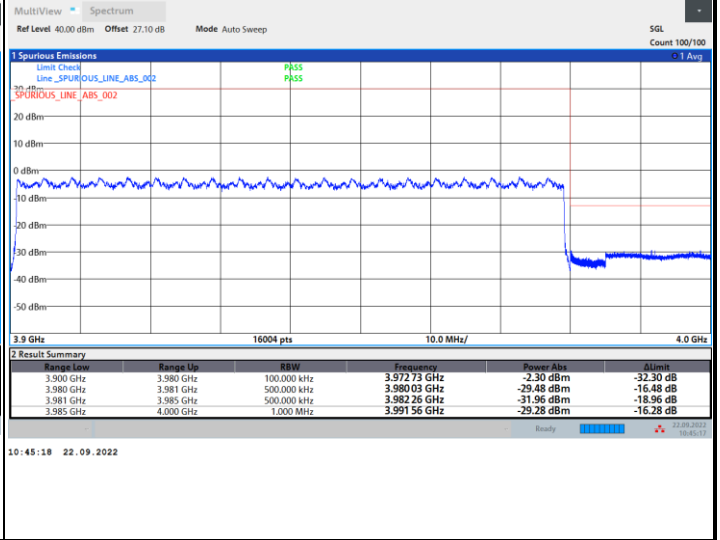
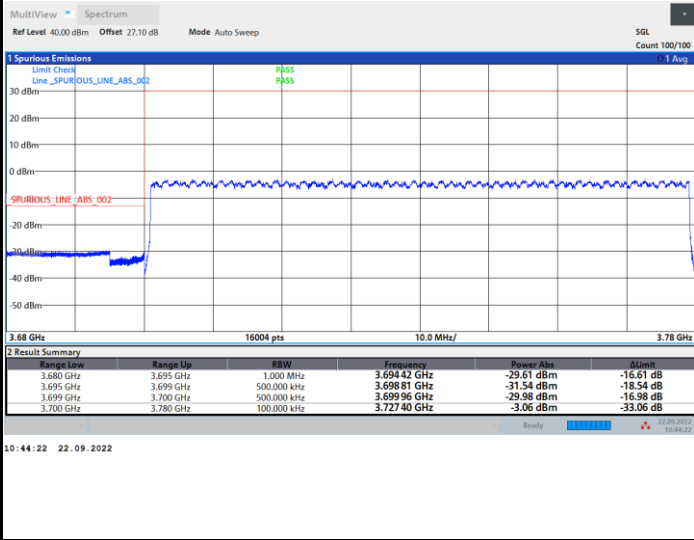




FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

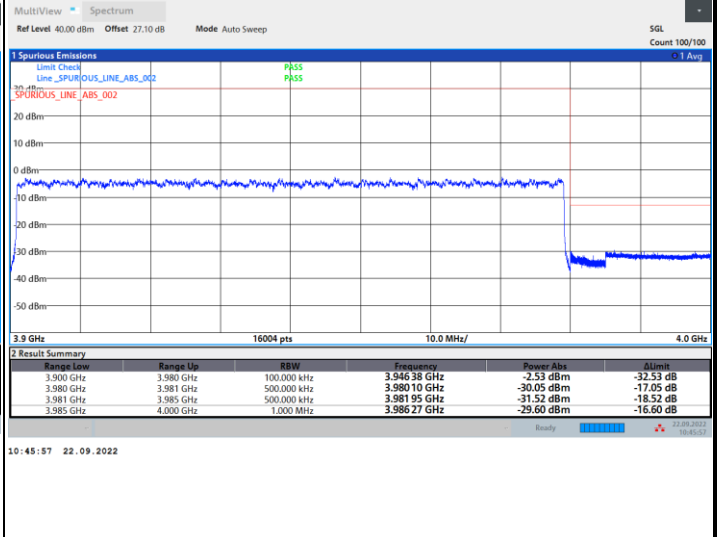
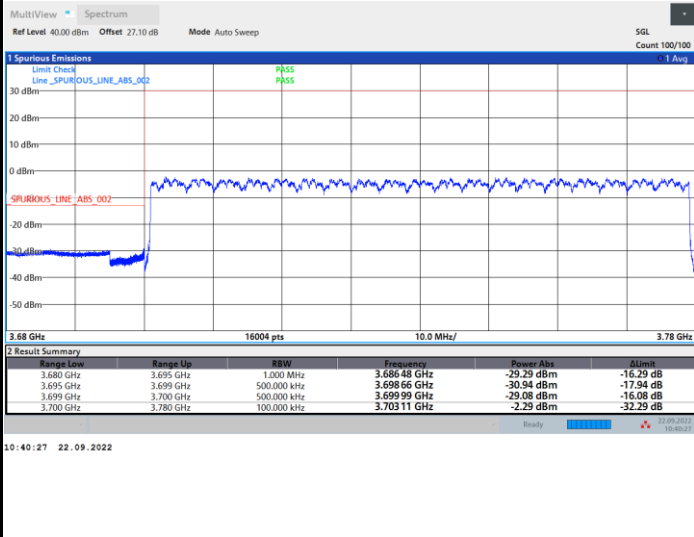
Highest Band Edge / Full RB



FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

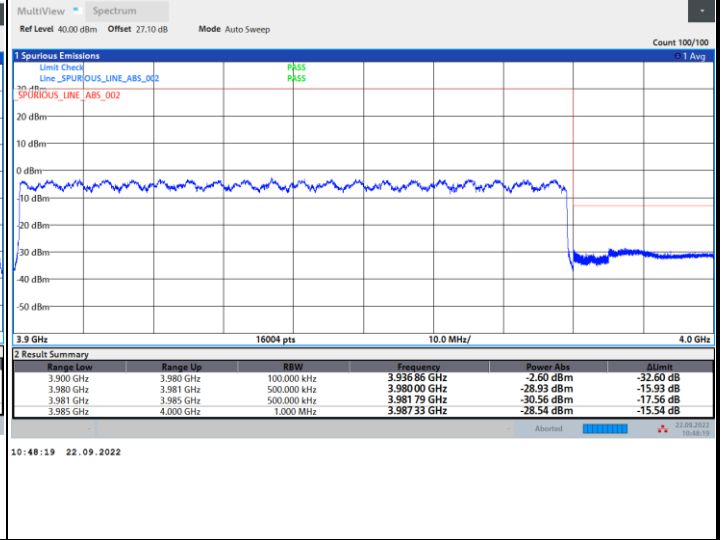
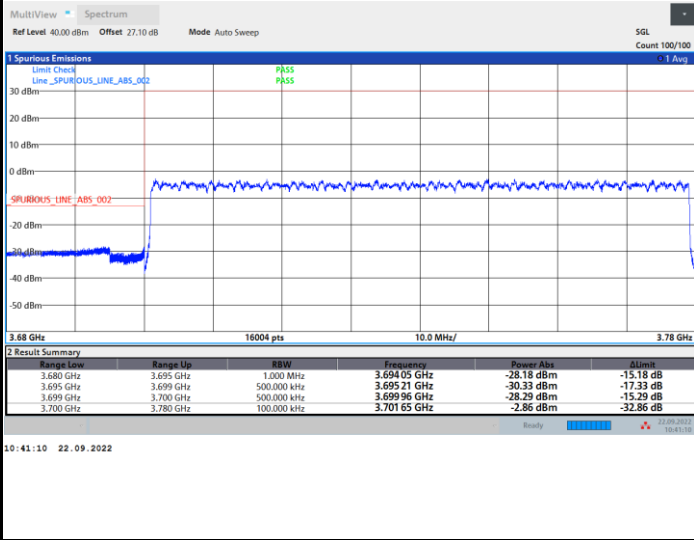




FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

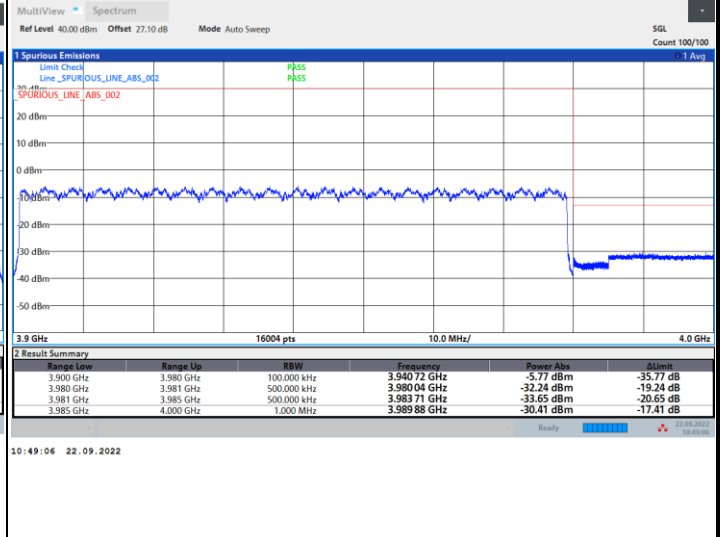
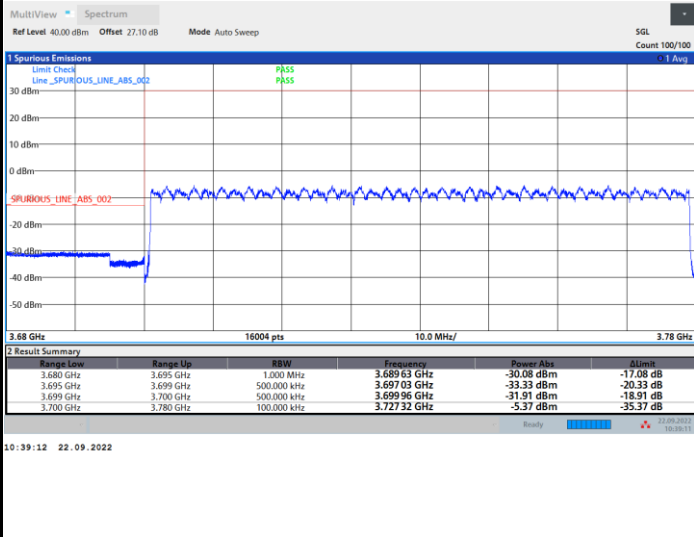
Highest Band Edge / Full RB



FR1 n77 / 80MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

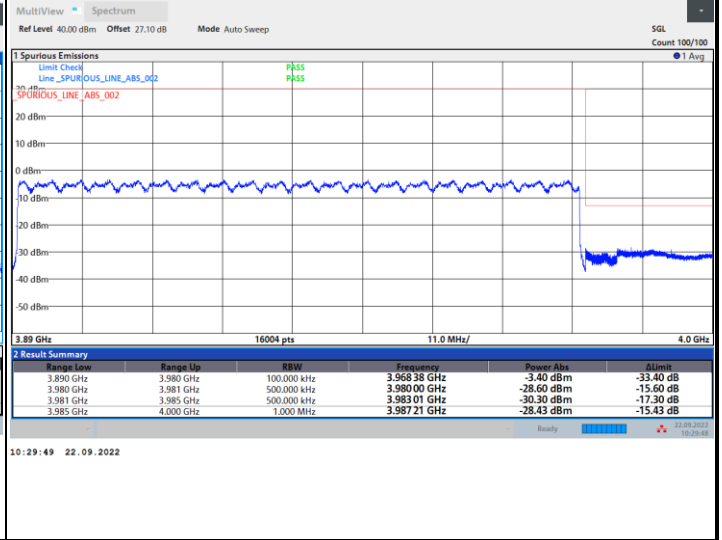
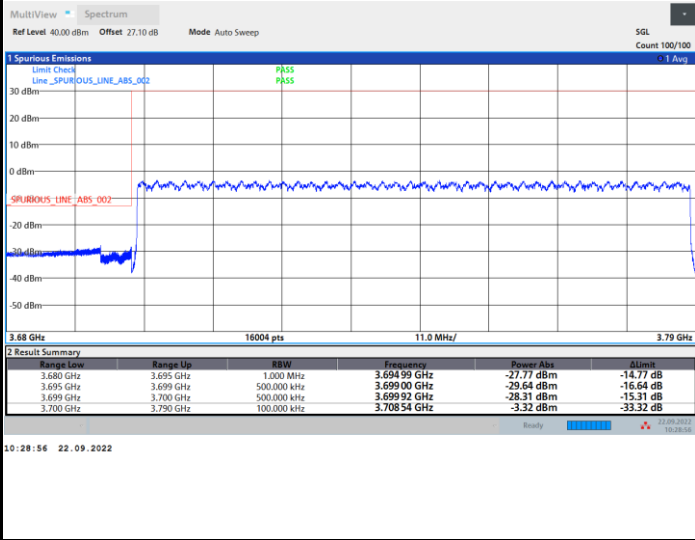




FR1 n77 / 90MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

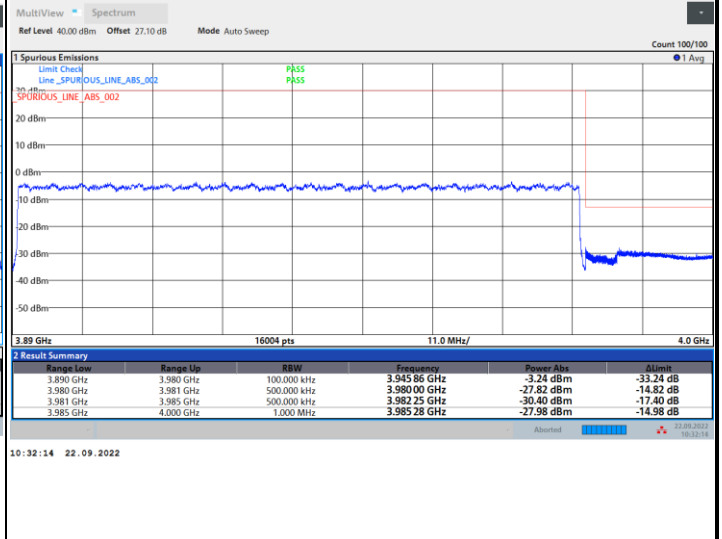
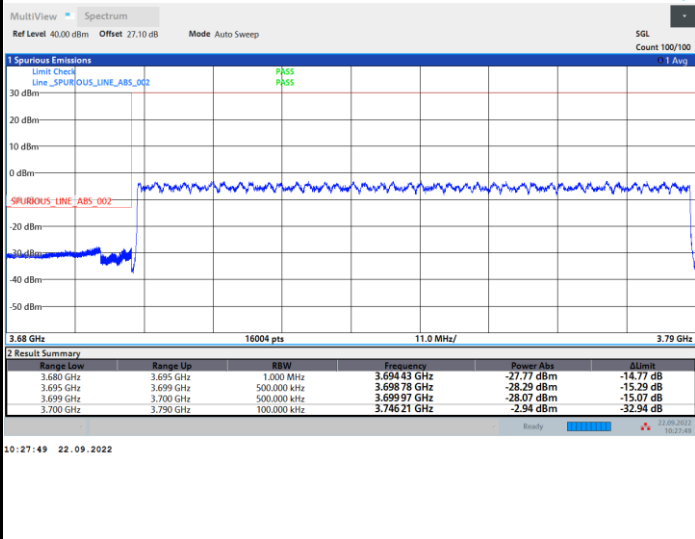
Highest Band Edge / Full RB



FR1 n77 / 90MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

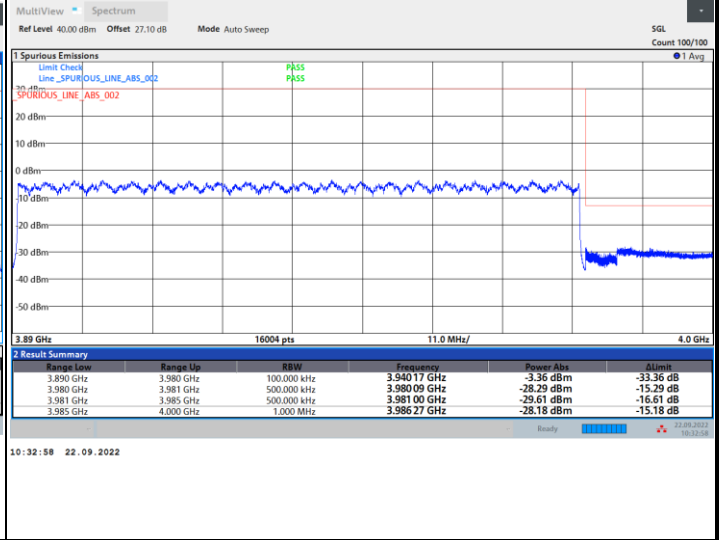
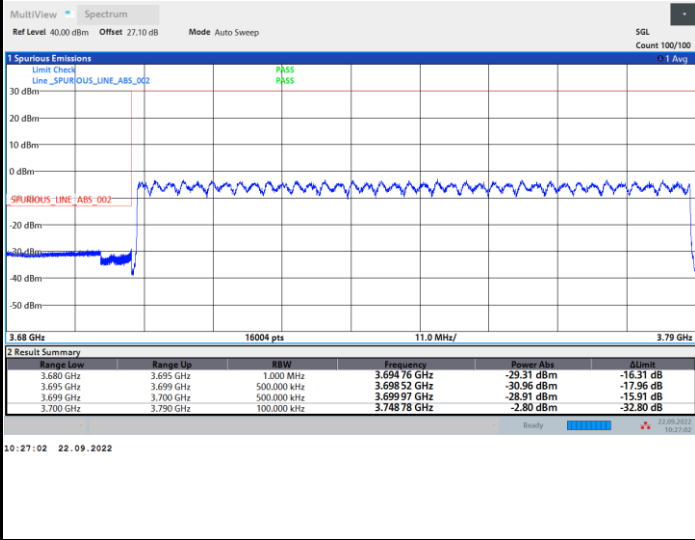




FR1 n77 / 90MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

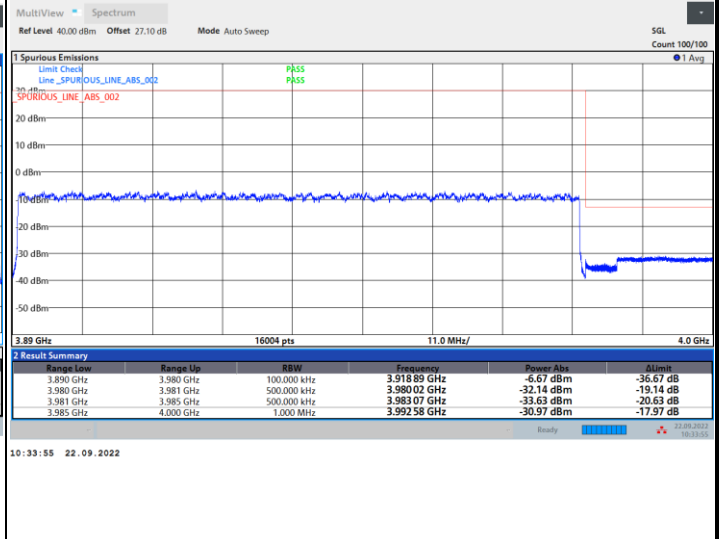
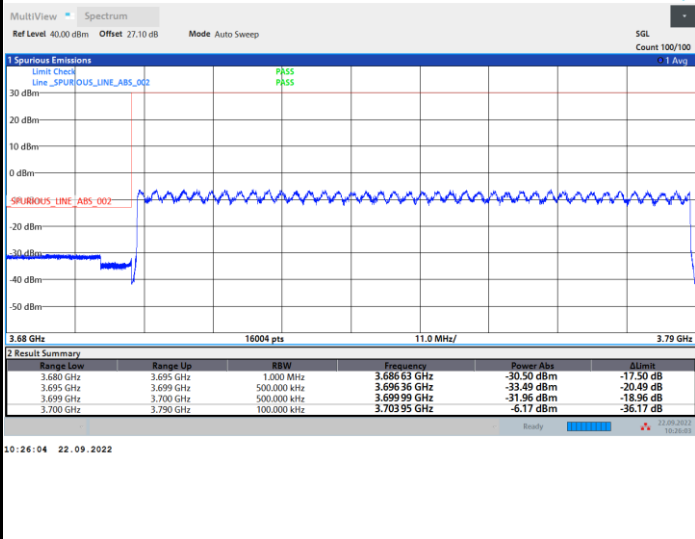
Highest Band Edge / Full RB



FR1 n77 / 90MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

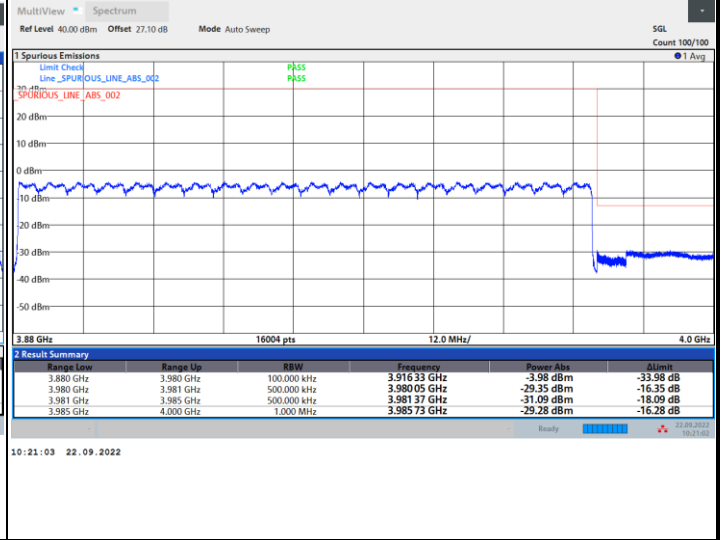
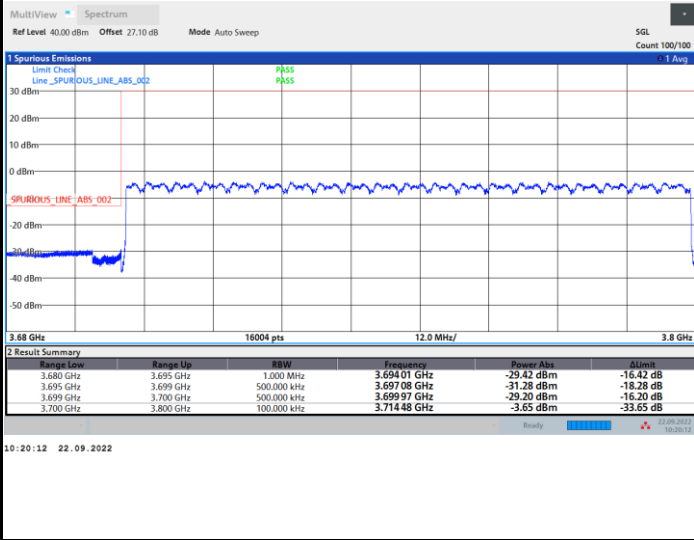




FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

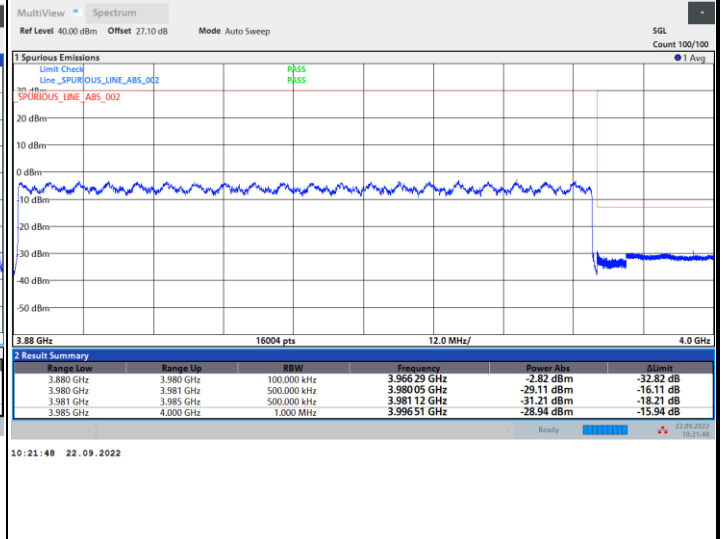
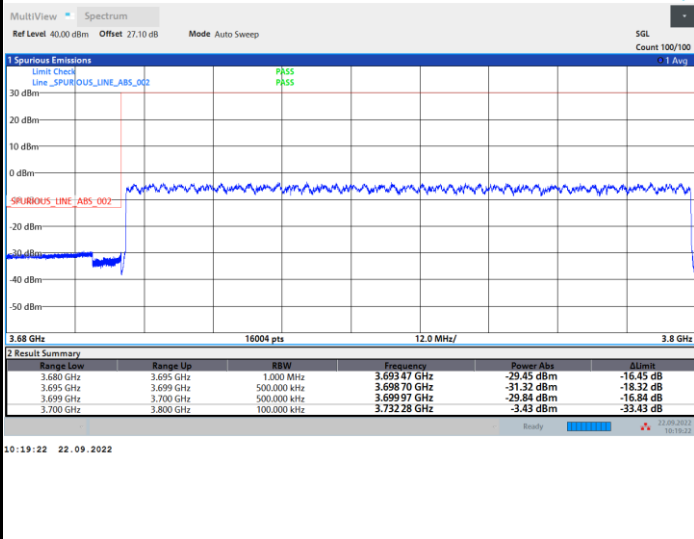
Highest Band Edge / Full RB



FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

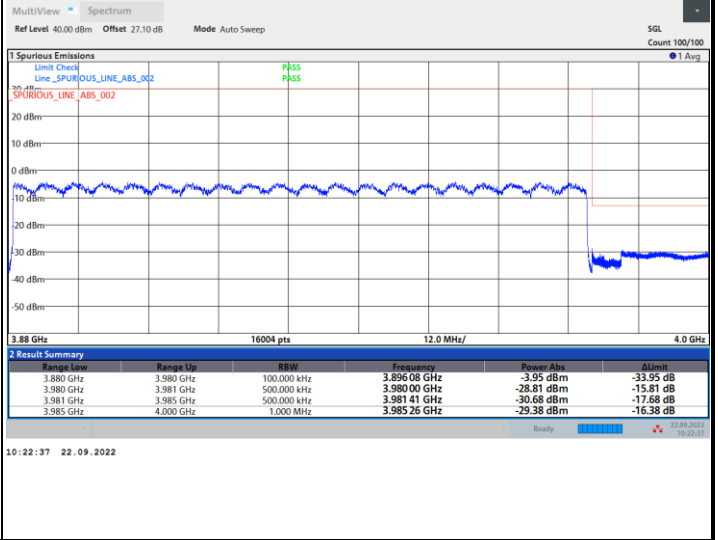
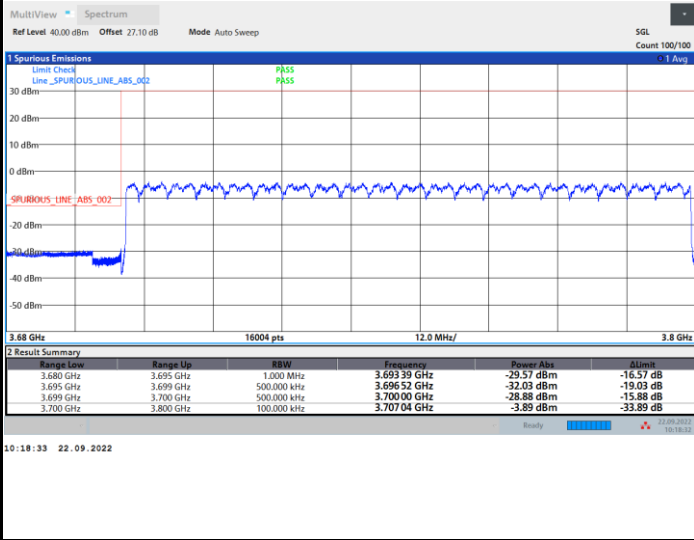




FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

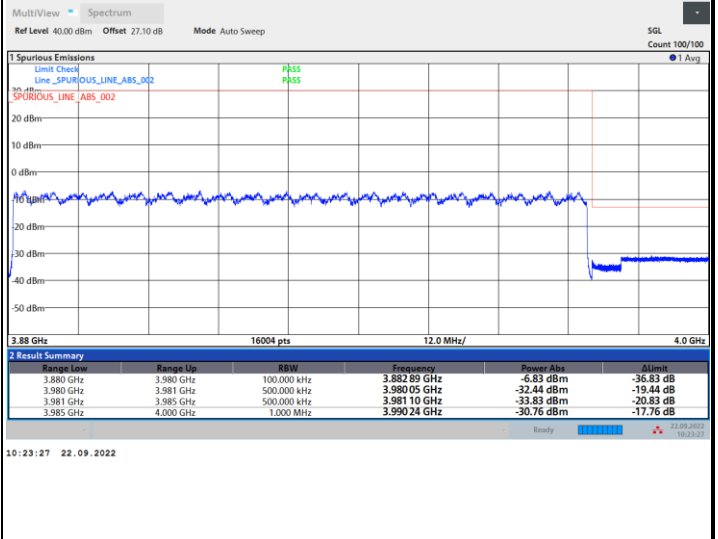
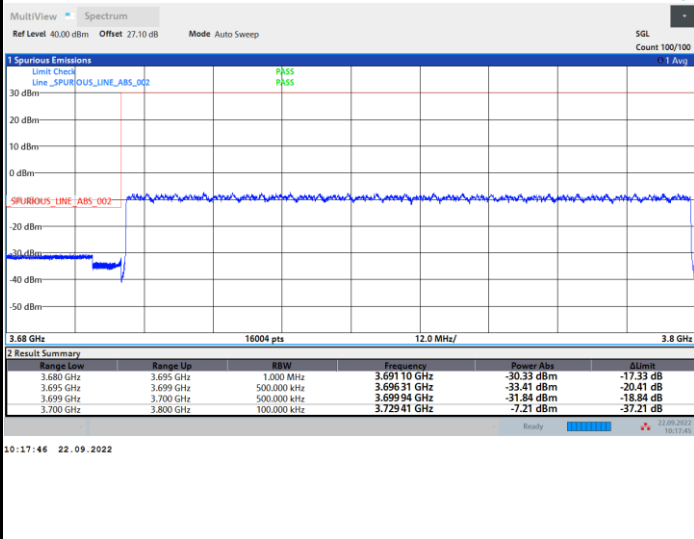
Highest Band Edge / Full RB



FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



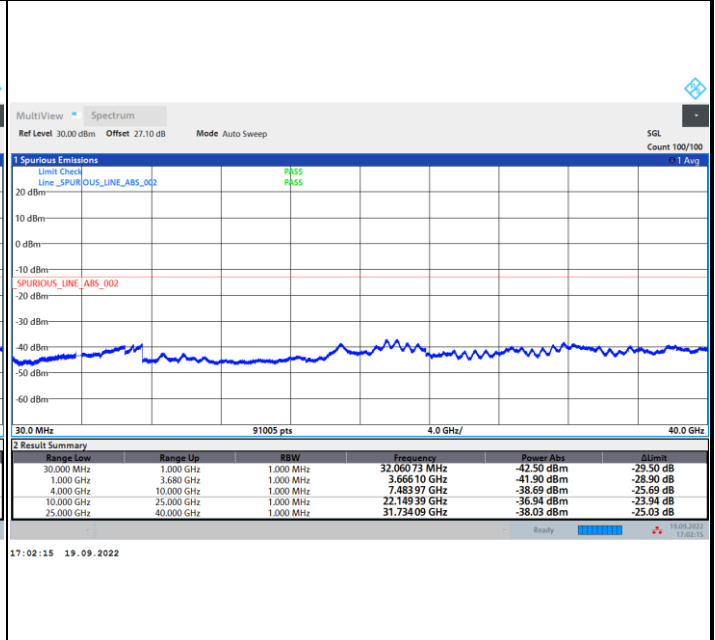
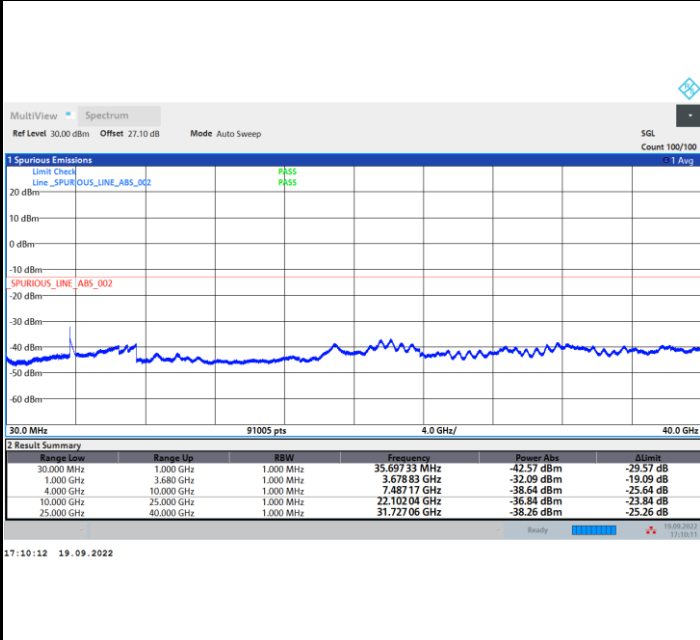


Conducted Spurious Emission

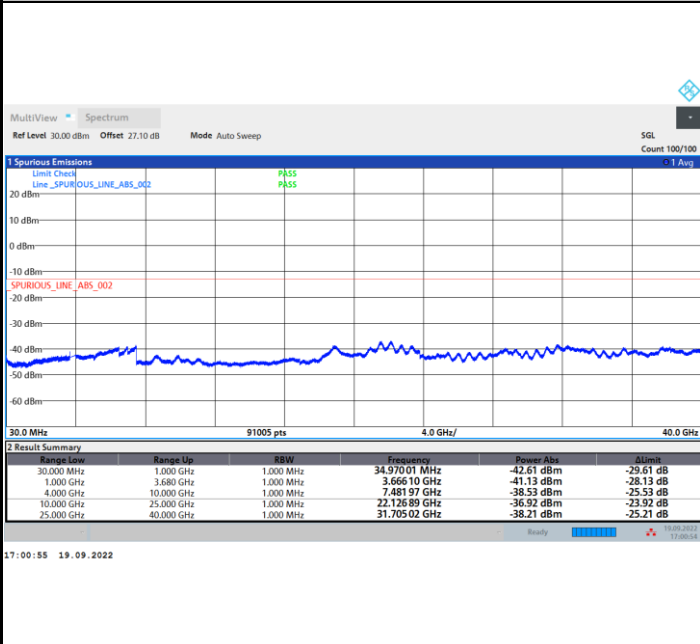
FR1 n77 / 10MHz / CP OFDM / QPSK / 1RB1

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	0.0057	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

Note:

1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 3.63 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

<Ant. 0>

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	7402	-39.96	-13	-26.96	-70.86	-47.27	1.94	11.40	H
	11103	-33.92	-13	-20.92	-71.05	-40.15	2.24	10.62	H
	14808	-27.76	-13	-14.76	-70.68	-35.80	2.58	12.78	H
	18506	-63.18	-13	-50.18	-75.06	-75.38	3.24	17.59	H
	22208	-61.26	-13	-48.26	-76.99	-74.45	3.52	18.86	H
	25909	-59.24	-13	-46.24	-78.06	-72.25	3.92	19.08	H
	7402	-40.04	-13	-27.04	-71.04	-47.35	1.94	11.40	V
	11103	-34.00	-13	-21.00	-71.08	-40.23	2.24	10.62	V
	14808	-26.63	-13	-13.63	-70.66	-34.67	2.58	12.78	V
	18506	-62.61	-13	-49.61	-74.27	-74.81	3.24	17.59	V
	22208	-60.89	-13	-47.89	-76.22	-74.08	3.52	18.86	V
	25909	-58.87	-13	-45.87	-77.38	-71.88	3.92	19.08	V
Middle	7582	-41.74	-13	-28.74	-72.26	-49.22	1.90	11.53	H
	11373	-35.22	-13	-22.22	-72.64	-41.67	2.35	10.95	H
	15168	-29.40	-13	-16.40	-71.64	-38.59	2.60	13.94	H
	18956	-63.93	-13	-50.93	-75.5	-75.67	3.26	17.14	H
	22748	-60.09	-13	-47.09	-76.62	-73.09	3.55	18.70	H
	26539	-57.33	-13	-44.33	-77.02	-69.91	3.93	18.65	H
	7582	-41.45	-13	-28.45	-72.14	-48.93	1.90	11.53	V
	11373	-32.32	-13	-19.32	-69.81	-38.77	2.35	10.95	V
	15168	-27.77	-13	-14.77	-71.09	-36.96	2.60	13.94	V
	18956	-63.70	-13	-50.70	-75.04	-75.44	3.26	17.14	V
	22748	-59.99	-13	-46.99	-76.14	-72.99	3.55	18.70	V
	26539	-57.89	-13	-44.89	-77.2	-70.47	3.93	18.65	V



Highest	7763	-40.59	-13	-27.59	-71.38	-48.24	1.88	11.68	H
	11643	-33.85	-13	-20.85	-71.99	-40.85	2.46	11.61	H
	15528	-30.13	-13	-17.13	-71.2	-40.76	2.70	15.48	H
	19406	-63.00	-13	-50.00	-75.31	-75.05	3.23	17.42	H
	23288	-59.18	-13	-46.18	-76.29	-72.05	3.63	18.66	H
	27169	-57.30	-13	-44.30	-77.87	-70.59	3.93	19.37	H
									H
	7763	-37.69	-13	-24.69	-68.75	-45.34	1.88	11.68	V
	11643	-30.51	-13	-17.51	-68.57	-37.51	2.46	11.61	V
	15528	-29.87	-13	-16.87	-71.21	-40.50	2.70	15.48	V
	19406	-63.38	-13	-50.38	-75.43	-75.43	3.23	17.42	V
	23288	-59.76	-13	-46.76	-76.55	-72.63	3.63	18.66	V
	27169	-57.47	-13	-44.47	-77.68	-70.76	3.93	19.37	V
									V

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



<Ant. 0 + Ant.1>

5G NR n77 (HPUE) (SRS mode)

5G NR n77 (HPUE) (SRS mode) / 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	-40.73	-13	-27.73	-71.63	-48.03	1.94	11.39	H
	11104	-35.93	-13	-22.93	-73.06	-42.16	2.24	10.62	H
	14805	-28.48	-13	-15.48	-71.4	-36.52	2.58	12.77	H
	18506	-62.78	-13	-49.78	-74.66	-74.98	3.24	17.59	H
	22208	-61.01	-13	-48.01	-76.74	-74.20	3.52	18.86	H
	25909	-59.11	-13	-46.11	-77.93	-72.12	3.92	19.08	H
									H
	7403	-40.89	-13	-27.89	-71.89	-48.19	1.94	11.39	V
	11104	-35.75	-13	-22.75	-72.83	-41.98	2.24	10.62	V
	14805	-27.66	-13	-14.66	-71.69	-35.70	2.58	12.77	V
	18506	-63.37	-13	-50.37	-75.03	-75.57	3.24	17.59	V
	22208	-61.84	-13	-48.84	-77.17	-75.03	3.52	18.86	V
	25909	-59.38	-13	-46.38	-77.89	-72.39	3.92	19.08	V
									V
Middle	7583	-41.70	-13	-28.70	-72.22	-49.19	1.90	11.53	H
	11374	-35.16	-13	-22.16	-72.58	-41.61	2.35	10.95	H
	15165	-29.20	-13	-16.20	-71.46	-38.37	2.60	13.93	H
	18956	-64.08	-13	-51.08	-75.65	-75.82	3.26	17.14	H
	22748	-60.48	-13	-47.48	-77.01	-73.48	3.55	18.70	H
	26539	-57.40	-13	-44.40	-77.09	-69.98	3.93	18.65	H
									H
	7583	-41.37	-13	-28.37	-72.06	-48.86	1.90	11.53	V
	11374	-34.67	-13	-21.67	-72.16	-41.12	2.35	10.95	V
	15165	-27.73	-13	-14.73	-71.07	-36.90	2.60	13.93	V
	18956	-64.46	-13	-51.46	-75.8	-76.20	3.26	17.14	V
	22748	-60.98	-13	-47.98	-77.13	-73.98	3.55	18.70	V
	26539	-57.87	-13	-44.87	-77.18	-70.45	3.93	18.65	V
									V



Highest	7763	-40.85	-13	-27.85	-71.64	-48.50	1.88	11.68	H
	11644	-33.74	-13	-20.74	-71.89	-40.75	2.46	11.62	H
	15525	-29.81	-13	-16.81	-70.89	-40.43	2.70	15.47	H
	19406	-63.61	-13	-50.61	-75.92	-75.66	3.23	17.42	H
	23288	-59.60	-13	-46.60	-76.71	-72.47	3.63	18.66	H
	27169	-57.47	-13	-44.47	-78.04	-70.76	3.93	19.37	H
									H
	7763	-37.82	-13	-24.82	-68.88	-45.47	1.88	11.68	V
	11644	-32.86	-13	-19.86	-70.92	-39.87	2.46	11.62	V
	15525	-29.46	-13	-16.46	-70.81	-40.08	2.70	15.47	V
	19406	-63.86	-13	-50.86	-75.91	-75.91	3.23	17.42	V
	23288	-59.88	-13	-46.88	-76.67	-72.75	3.63	18.66	V
	27169	-57.19	-13	-44.19	-77.4	-70.48	3.93	19.37	V
									V

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



<Ant. 0 + Ant.2>

5G NR n77 (HPUE) (MIMO mode)

5G NR n77 (HPUE) (MIMO mode) / 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	7402	-41.07	-13	-28.07	-71.98	-48.38	1.94	11.40	H
	11103	-34.93	-13	-21.93	-72.06	-41.16	2.24	10.62	H
	14808	-28.85	-13	-15.85	-71.76	-36.89	2.58	12.78	H
	18506	-63.60	-13	-50.60	-75.48	-75.80	3.24	17.59	H
	22208	-61.79	-13	-48.79	-77.52	-74.98	3.52	18.86	H
	25909	-59.38	-13	-46.38	-78.2	-72.39	3.92	19.08	H
									H
	7402	-40.90	-13	-27.90	-71.9	-48.21	1.94	11.40	V
	11103	-35.21	-13	-22.21	-72.29	-41.44	2.24	10.62	V
	14808	-27.94	-13	-14.94	-71.97	-35.98	2.58	12.78	V
	18506	-59.42	-13	-46.42	-71.08	-71.62	3.24	17.59	V
	22208	-61.21	-13	-48.21	-76.54	-74.40	3.52	18.86	V
	25909	-59.46	-13	-46.46	-77.97	-72.47	3.92	19.08	V
									V
Middle	7582	-41.41	-13	-28.41	-71.93	-48.89	1.90	11.53	H
	11373	-34.65	-13	-21.65	-72.07	-41.10	2.35	10.95	H
	15168	-29.70	-13	-16.70	-71.94	-38.89	2.60	13.94	H
	18956	-64.83	-13	-51.83	-76.4	-76.57	3.26	17.14	H
	22747	-61.21	-13	-48.21	-77.74	-74.21	3.55	18.70	H
	26538	-57.65	-13	-44.65	-77.33	-70.22	3.93	18.65	H
									H
	7582	-41.54	-13	-28.54	-72.23	-49.02	1.90	11.53	V
	11373	-34.26	-13	-21.26	-71.75	-40.71	2.35	10.95	V
	15168	-28.89	-13	-15.89	-72.13	-38.08	2.60	13.94	V
	18956	-63.55	-13	-50.55	-74.89	-75.29	3.26	17.14	V
	22747	-59.95	-13	-46.95	-76.1	-72.95	3.55	18.70	V
	26538	-58.04	-13	-45.04	-77.35	-70.61	3.93	18.65	V
									V



Highest	7762	-40.91	-13	-27.91	-71.7	-48.56	1.88	11.68	H
	11643	-33.51	-13	-20.51	-71.65	-40.51	2.46	11.61	H
	15528	-29.81	-13	-16.81	-70.88	-40.44	2.70	15.48	H
	19406	-63.60	-13	-50.60	-75.91	-75.65	3.23	17.42	H
	23288	-59.68	-13	-46.68	-76.79	-72.55	3.63	18.66	H
	27169	-57.54	-13	-44.54	-78.11	-70.83	3.93	19.37	H
									H
	7762	-40.36	-13	-27.36	-71.42	-48.01	1.88	11.68	V
	11643	-33.26	-13	-20.26	-71.32	-40.26	2.46	11.61	V
	15528	-29.72	-13	-16.72	-71.06	-40.35	2.70	15.48	V
	19406	-62.26	-13	-49.26	-74.31	-74.31	3.23	17.42	V
	23288	-59.36	-13	-46.36	-76.17	-72.23	3.63	18.66	V
	27169	-57.56	-13	-44.56	-77.77	-70.85	3.93	19.37	V
									V

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



<Ant. 1 + Ant.3>

5G NR n77 (HPUE) (SRS mode)

5G NR n77 (HPUE) (SRS mode) / 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	-40.95	-13	-27.95	-71.86	-48.25	1.94	11.39	H
	11104	-35.33	-13	-22.33	-72.46	-41.56	2.24	10.62	H
	14805	-29.30	-13	-16.30	-72.21	-37.34	2.58	12.77	H
	18506	-60.97	-13	-47.97	-72.85	-73.17	3.24	17.59	H
	22208	-60.08	-13	-47.08	-75.81	-73.27	3.52	18.86	H
	25909	-58.12	-13	-45.12	-76.94	-71.13	3.92	19.08	H
									H
	7403	-40.32	-13	-27.32	-71.32	-47.62	1.94	11.39	V
	11104	-34.80	-13	-21.80	-71.88	-41.03	2.24	10.62	V
	14805	-27.88	-13	-14.88	-71.91	-35.92	2.58	12.77	V
	18506	-56.72	-13	-43.72	-68.38	-68.92	3.24	17.59	V
	22208	-60.00	-13	-47.00	-75.33	-73.19	3.52	18.86	V
	25909	-58.13	-13	-45.13	-76.64	-71.14	3.92	19.08	V
									V
Middle	7583	-41.22	-13	-28.22	-71.74	-48.71	1.90	11.53	H
	11374	-34.55	-13	-21.55	-71.97	-41.00	2.35	10.95	H
	15165	-29.43	-13	-16.43	-71.67	-38.60	2.60	13.93	H
	18956	-61.88	-13	-48.88	-73.45	-73.62	3.26	17.14	H
	22748	-59.54	-13	-46.54	-76.07	-72.54	3.55	18.70	H
	26539	-57.66	-13	-44.66	-77.35	-70.24	3.93	18.65	H
									H
	7583	-38.14	-13	-25.14	-68.83	-45.63	1.90	11.53	V
	11374	-33.78	-13	-20.78	-71.27	-40.23	2.35	10.95	V
	15165	-28.23	-13	-15.23	-71.55	-37.40	2.60	13.93	V
	18956	-60.57	-13	-47.57	-71.91	-72.31	3.26	17.14	V
	22748	-59.25	-13	-46.25	-75.4	-72.25	3.55	18.70	V
	26539	-58.01	-13	-45.01	-77.32	-70.59	3.93	18.65	V
									V



Highest	7763	-39.35	-13	-26.35	-70.14	-47.00	1.88	11.68	H
	11644	-33.47	-13	-20.47	-71.62	-40.48	2.46	11.62	H
	15525	-30.75	-13	-17.75	-71.82	-41.37	2.70	15.47	H
	19406	-62.02	-13	-49.02	-74.33	-74.07	3.23	17.42	H
	23288	-58.74	-13	-45.74	-75.85	-71.61	3.63	18.66	H
	27169	-57.18	-13	-44.18	-77.75	-70.47	3.93	19.37	H
									H
	7763	-37.01	-13	-24.01	-68.07	-44.66	1.88	11.68	V
	11644	-31.75	-13	-18.75	-69.81	-38.76	2.46	11.62	V
	15525	-30.58	-13	-17.58	-71.92	-41.20	2.70	15.47	V
	19406	-61.54	-13	-48.54	-73.59	-73.59	3.23	17.42	V
	23288	-58.72	-13	-45.72	-75.51	-71.59	3.63	18.66	V
	27169	-57.05	-13	-44.05	-77.26	-70.34	3.93	19.37	V
									V

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



<Ant. 2 + Ant.3>

5G NR n77 (HPUE) (SRS mode)

5G NR n77 (HPUE) (SRS mode) / 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	-41.20	-13	-28.20	-72.1	-48.50	1.94	11.39	H
	11104	-35.21	-13	-22.21	-72.34	-41.44	2.24	10.62	H
	14805	-28.45	-13	-15.45	-71.37	-36.49	2.58	12.77	H
	18506	-62.77	-13	-49.77	-74.65	-74.97	3.24	17.59	H
	22208	-61.20	-13	-48.20	-76.91	-74.39	3.52	18.86	H
	25909	-58.68	-13	-45.68	-77.5	-71.69	3.92	19.08	H
									H
	7403	-40.88	-13	-27.88	-71.88	-48.18	1.94	11.39	V
	11104	-34.46	-13	-21.46	-71.54	-40.69	2.24	10.62	V
	14805	-27.38	-13	-14.38	-71.41	-35.42	2.58	12.77	V
	18506	-62.79	-13	-49.79	-74.45	-74.99	3.24	17.59	V
	22208	-61.45	-13	-48.45	-76.78	-74.64	3.52	18.86	V
	25909	-59.25	-13	-46.25	-77.76	-72.26	3.92	19.08	V
									V
Middle	7583	-40.27	-13	-27.27	-70.79	-47.76	1.90	11.53	H
	11374	-34.64	-13	-21.64	-72.06	-41.09	2.35	10.95	H
	15165	-28.97	-13	-15.97	-71.23	-38.14	2.60	13.93	H
	18956	-63.84	-13	-50.84	-75.41	-75.58	3.26	17.14	H
	22748	-60.74	-13	-47.74	-77.27	-73.74	3.55	18.70	H
	26539	-57.39	-13	-44.39	-77.08	-69.97	3.93	18.65	H
									H
	7583	-39.39	-13	-26.39	-70.08	-46.88	1.90	11.53	V
	11374	-32.45	-13	-19.45	-69.94	-38.90	2.35	10.95	V
	15165	-28.01	-13	-15.01	-71.35	-37.18	2.60	13.93	V
	18956	-64.07	-13	-51.07	-75.41	-75.81	3.26	17.14	V
	22748	-60.18	-13	-47.18	-76.33	-73.18	3.55	18.70	V
	26539	-57.62	-13	-44.62	-76.93	-70.20	3.93	18.65	V
									V



Highest	7763	-41.29	-13	-28.29	-72.08	-48.94	1.88	11.68	H
	11644	-33.68	-13	-20.68	-71.83	-40.69	2.46	11.62	H
	15525	-29.63	-13	-16.63	-70.71	-40.25	2.70	15.47	H
	19406	-62.92	-13	-49.92	-75.23	-74.97	3.23	17.42	H
	23288	-59.56	-13	-46.56	-76.67	-72.43	3.63	18.66	H
	27169	-57.23	-13	-44.23	-77.8	-70.52	3.93	19.37	H
									H
	7763	-40.88	-13	-27.88	-71.94	-48.53	1.88	11.68	V
	11644	-33.86	-13	-20.86	-71.92	-40.87	2.46	11.62	V
	15525	-29.78	-13	-16.78	-71.13	-40.40	2.70	15.47	V
	19406	-63.84	-13	-50.84	-75.89	-75.89	3.23	17.42	V
	23288	-60.15	-13	-47.15	-76.94	-73.02	3.63	18.66	V
	27169	-57.81	-13	-44.81	-78.02	-71.10	3.93	19.37	V
									V

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