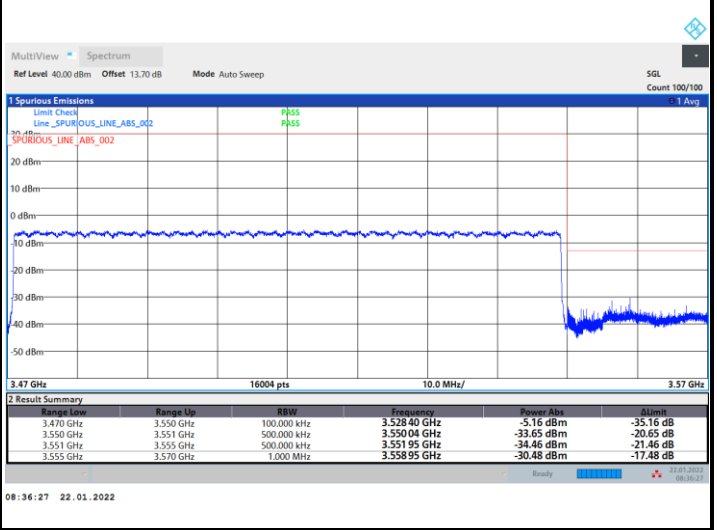
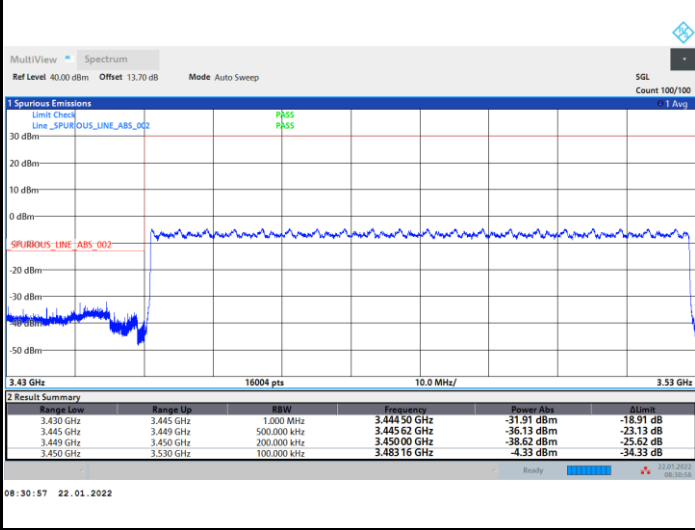




FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

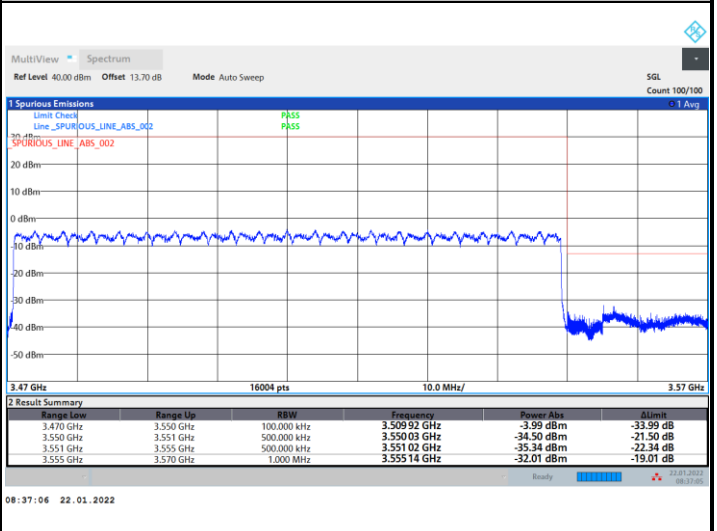
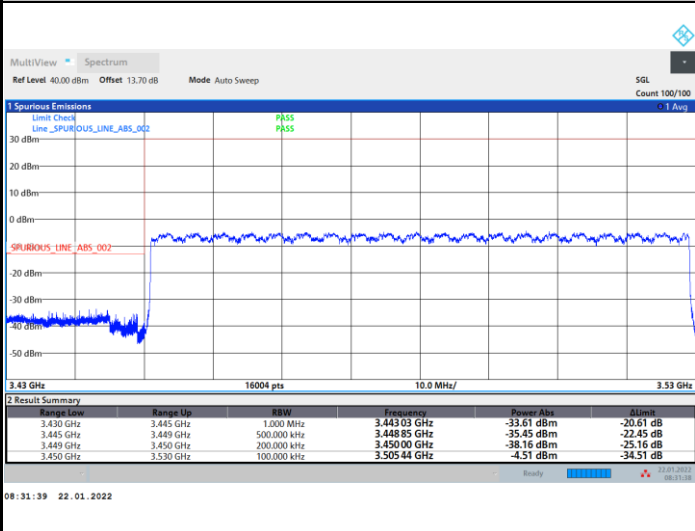
Highest Band Edge / Full RB



FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

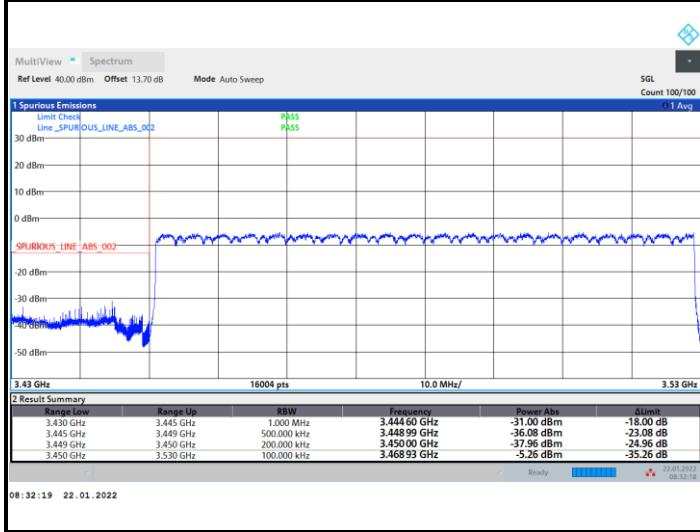
Highest Band Edge / Full RB



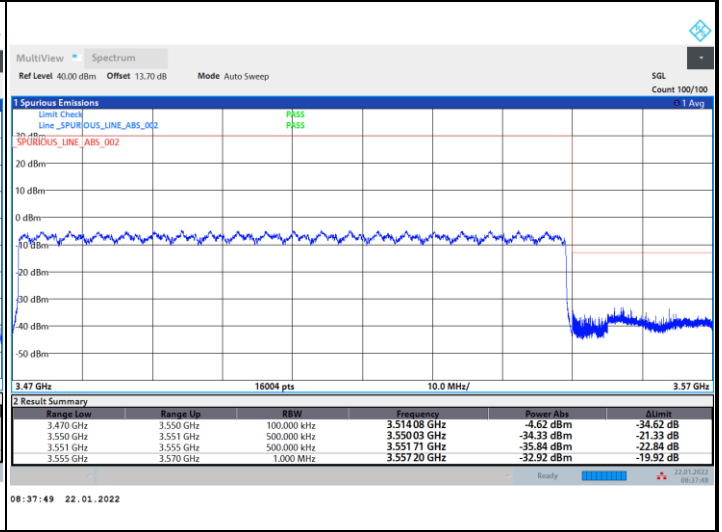


FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

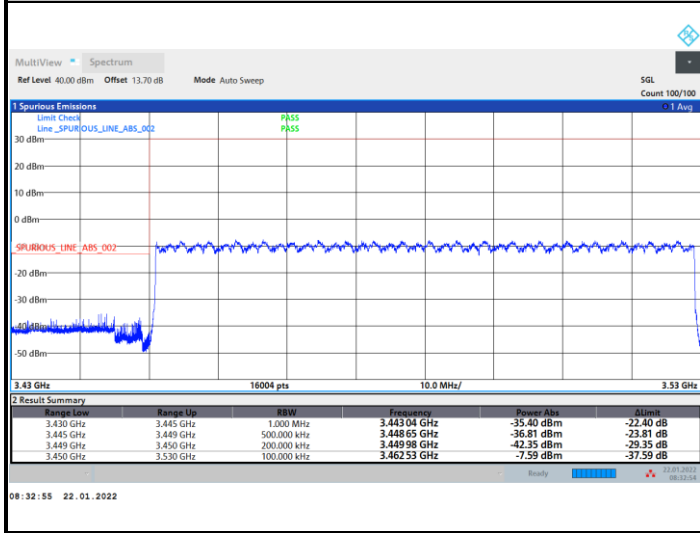


Highest Band Edge / Full RB

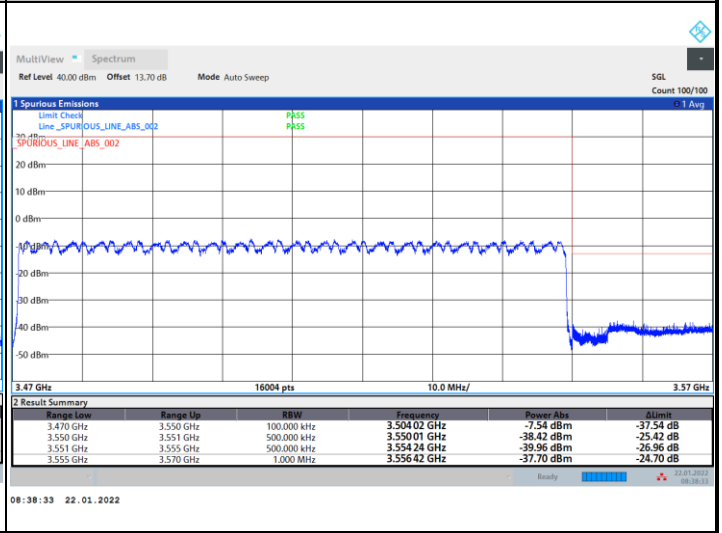


FR1 n77 / 80MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

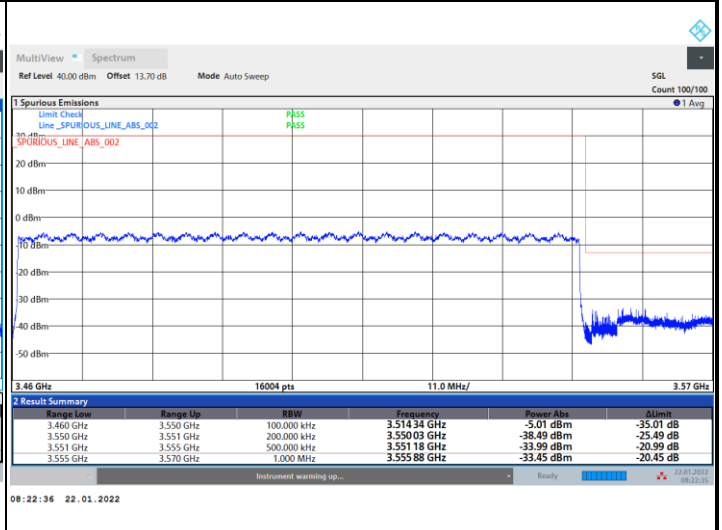
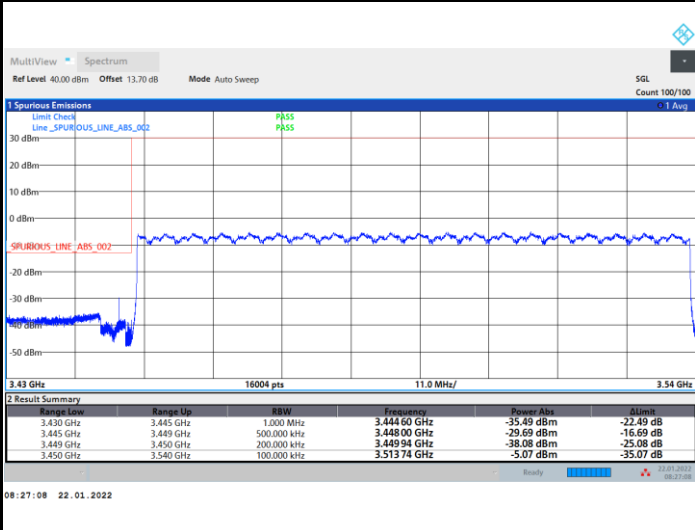




FR1 n77 / 90MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

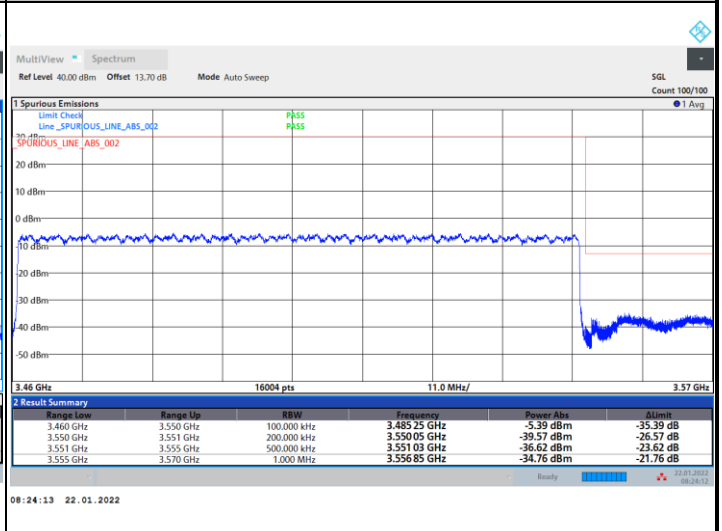
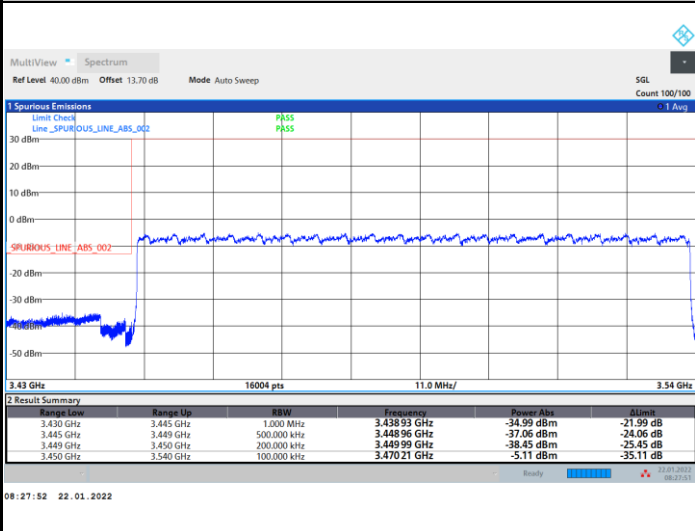
Highest Band Edge / Full RB



FR1 n77 / 90MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

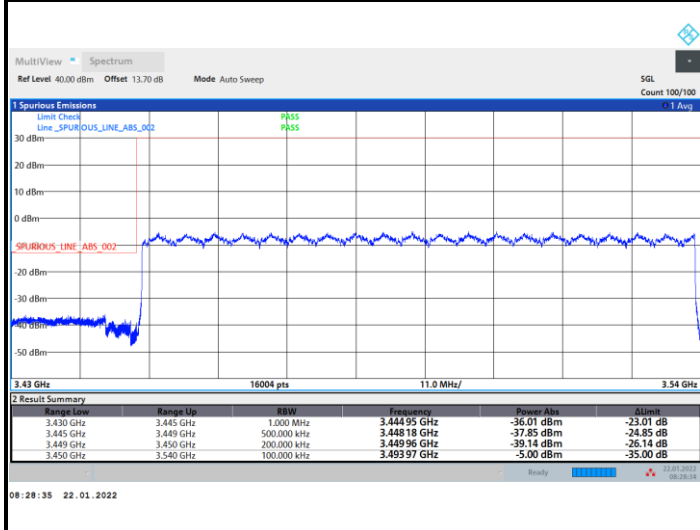
Highest Band Edge / Full RB



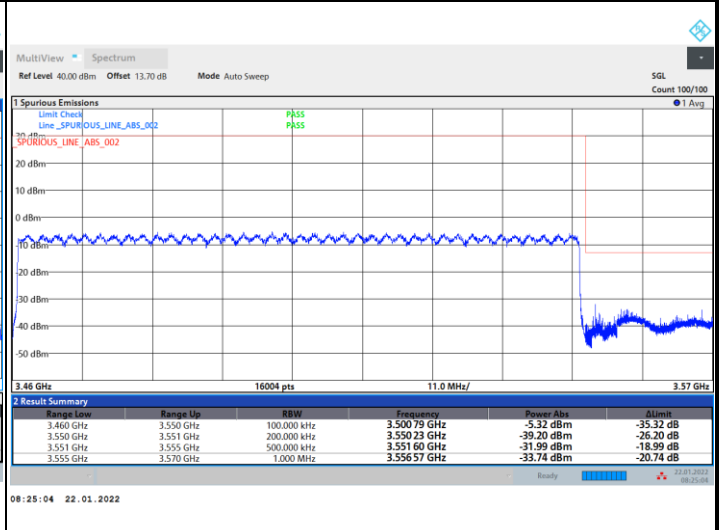


FR1 n77 / 90MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

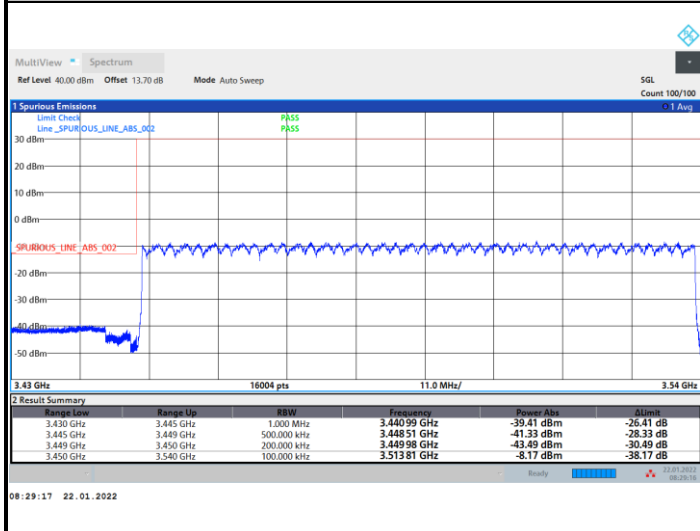


Highest Band Edge / Full RB

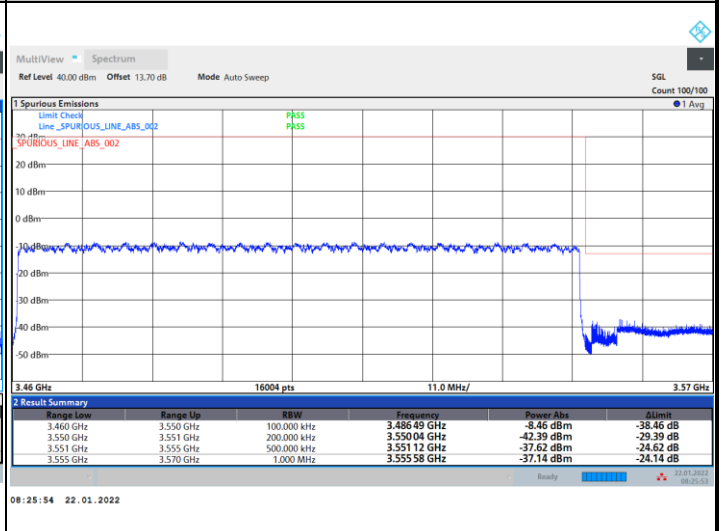


FR1 n77 / 90MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

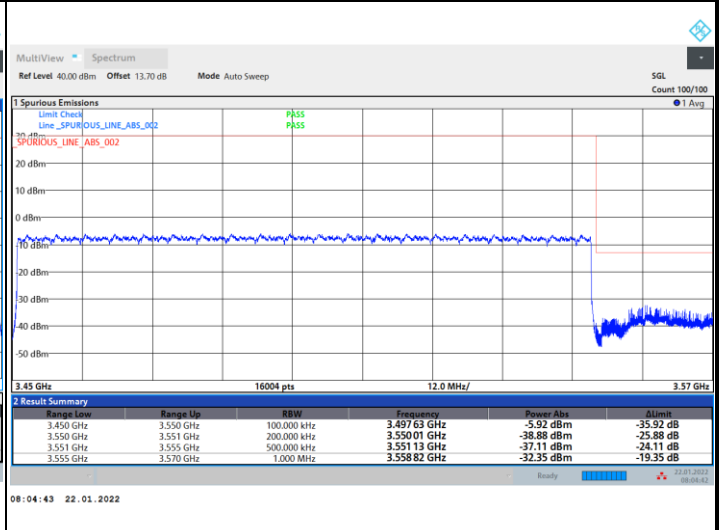
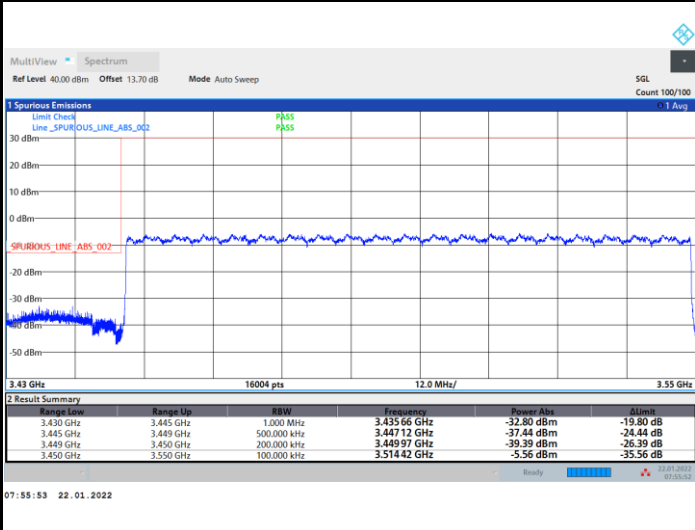




FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

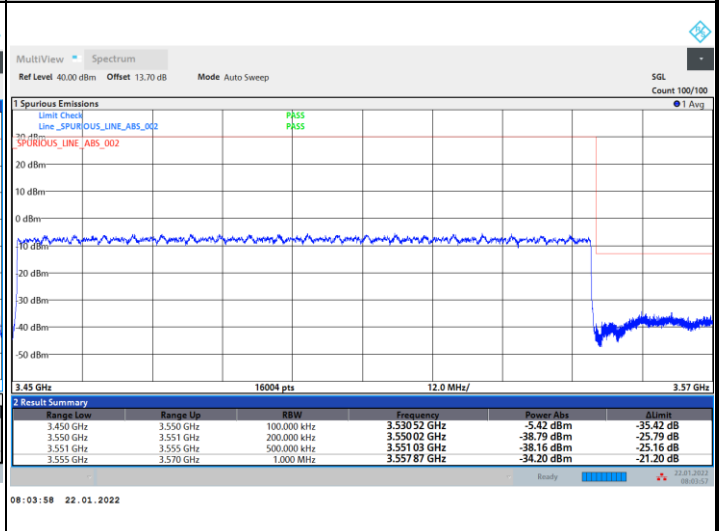
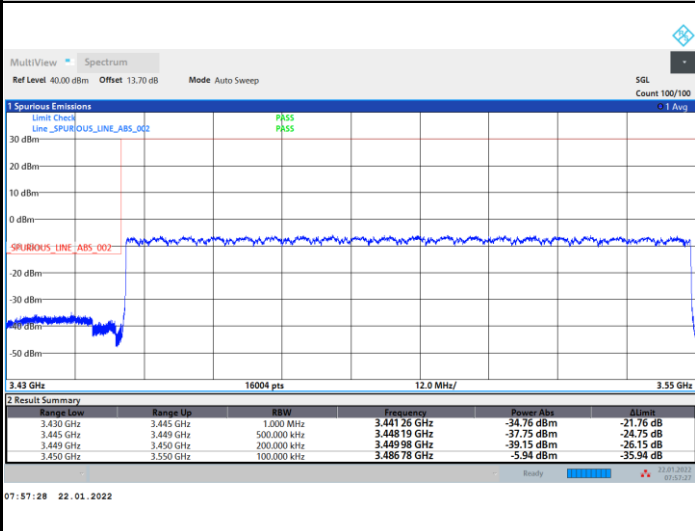
Highest Band Edge / Full RB



FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

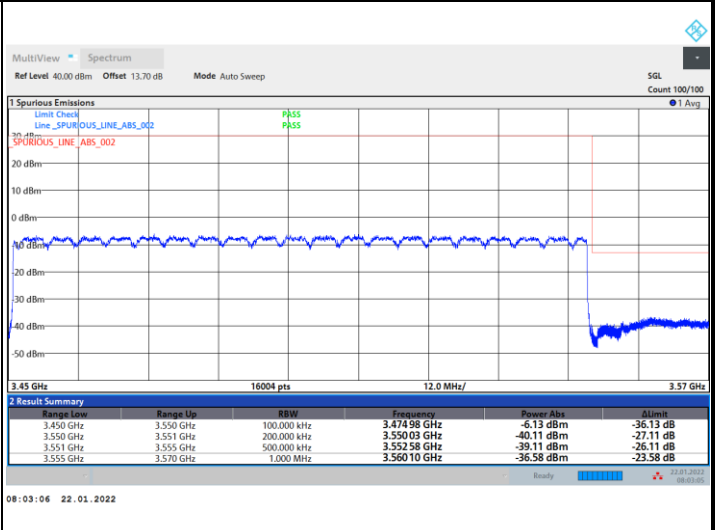
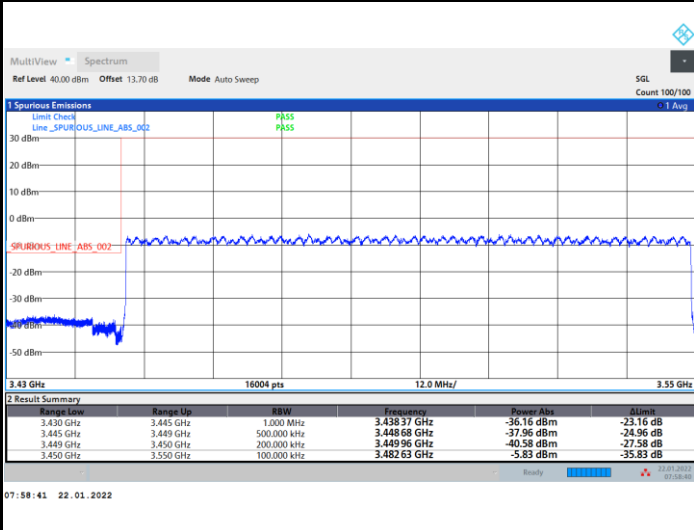




FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

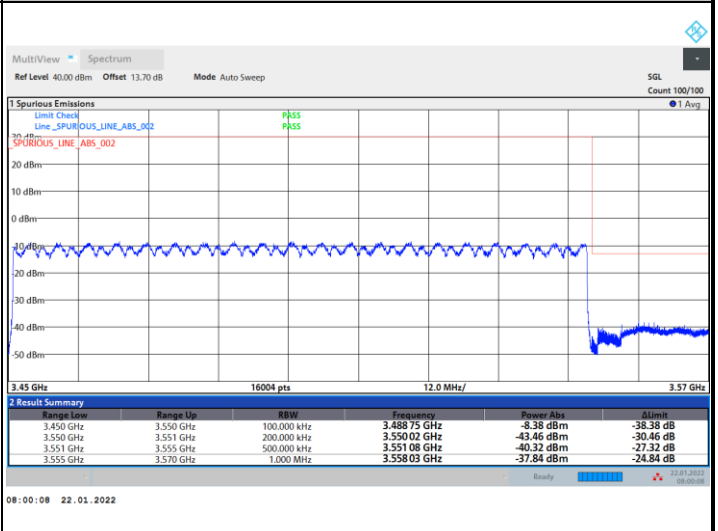
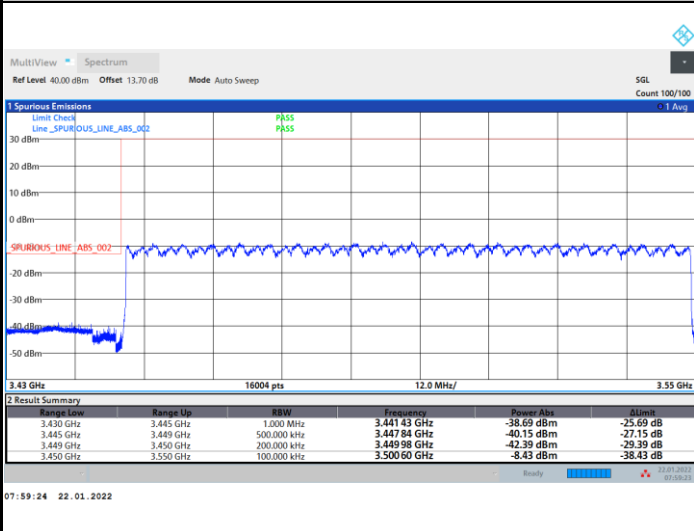
Highest Band Edge / Full RB



FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

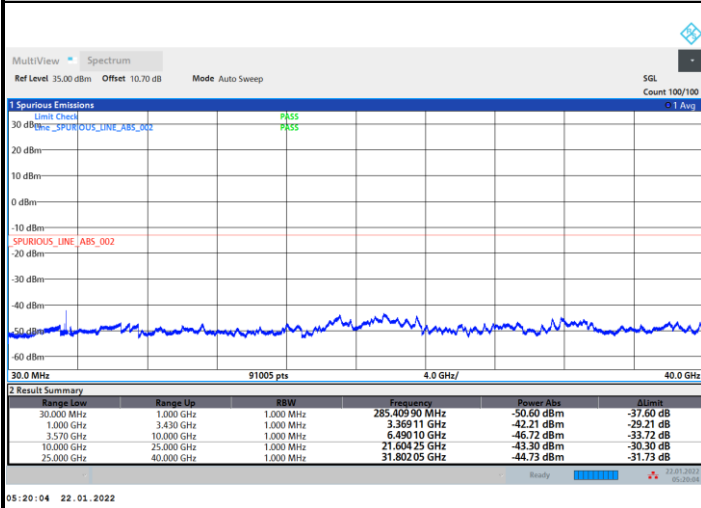




Conducted Spurious Emission

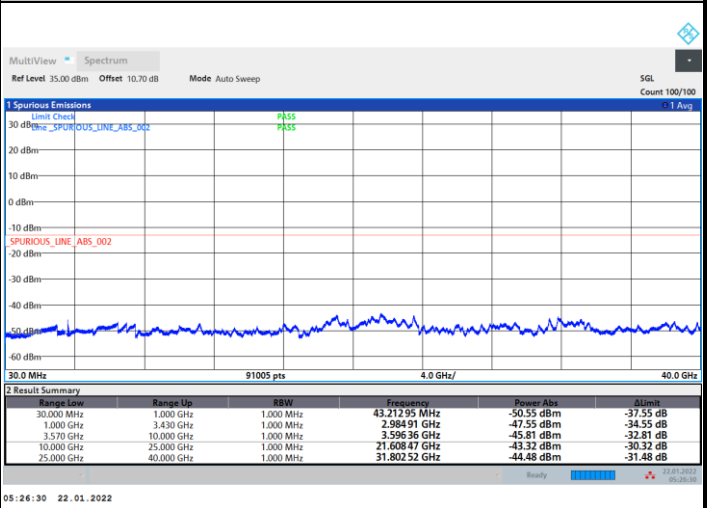
FR1 n77 / 10MHz / CP OFDM / QPSK / 1RB1

Lowest Channel



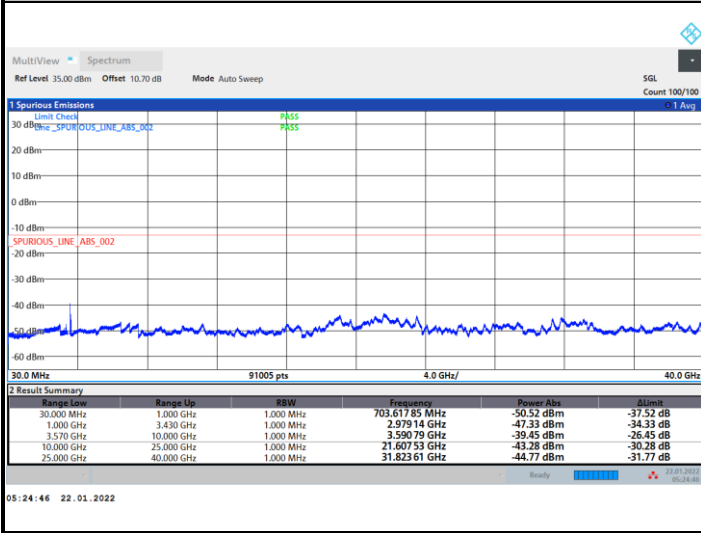
05:20:04 22.01.2022

Middle Channel



05:26:30 22.01.2022

Highest Channel



05:24:46 22.01.2022



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	0.0014	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note:

- 1. Normal Voltage =115 V. ; Battery End Point (BEP) =105 V. ; Maximum Voltage =125V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

<Ant. 5>

5G NR n77 HPUE

5G NR n77_HPUE / 40MHz / PI/2 BPSK									
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	6902	-45.43	-13	-32.43	-71.93	-53.58	1.73	12.04	H
	10356	-41.49	-13	-28.49	-71.59	-47.96	2.39	11.02	H
	13812	-34.40	-13	-21.40	-72.42	-41.78	2.85	12.39	H
	20713	-52.55	-13	-39.55	-75.18	-66.99	2.06	18.64	H
	24165	-50.31	-13	-37.31	-75.52	-64.00	2.00	17.84	H
	27618	-50.81	-13	-37.81	-77.38	-65.66	2.25	19.25	H
									H
	6902	-45.64	-13	-32.64	-71.7	-53.79	1.73	12.04	V
	10356	-41.05	-13	-28.05	-71.17	-47.52	2.39	11.02	V
	13812	-34.22	-13	-21.22	-72.59	-41.60	2.85	12.39	V
	20713	-53.03	-13	-40.03	-75.15	-67.47	2.06	18.64	V
	24165	-50.36	-13	-37.36	-76.4	-64.05	2.00	17.84	V
	27618	-49.88	-13	-36.88	-77.77	-64.73	2.25	19.25	V
									V
Middle	6965	-44.33	-13	-31.33	-71.12	-52.40	1.72	11.95	H
	10446	-41.16	-13	-28.16	-71.53	-47.56	2.39	10.94	H
	13932	-34.73	-13	-21.73	-72.41	-41.98	2.87	12.27	H
	20893	-52.97	-13	-39.97	-75.7	-67.43	2.07	18.68	H
	24375	-52.23	-13	-39.23	-77.28	-65.69	2.02	17.63	H
	27858	-51.36	-13	-38.36	-77.52	-66.21	2.34	19.34	H
									H
	6965	-45.38	-13	-32.38	-71.69	-53.45	1.72	11.95	V
	10446	-41.30	-13	-28.30	-71.5	-47.70	2.39	10.94	V
	13932	-34.54	-13	-21.54	-72.45	-41.79	2.87	12.27	V
	20893	-53.32	-13	-40.32	-75.66	-67.78	2.07	18.68	V
	24375	-50.67	-13	-37.67	-76.9	-64.13	2.02	17.63	V
	27858	-49.80	-13	-36.80	-77.32	-64.65	2.34	19.34	V
									V



5G NR n77_HPUE / 40MHz / PI/2 BPSK									
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	7023	-43.61	-13	-30.61	-70.62	-51.59	1.73	11.86	H
	10536	-41.13	-13	-28.13	-71.74	-47.47	2.41	10.90	H
	14052	-35.19	-13	-22.19	-72.58	-42.24	2.88	12.08	H
	21073	-53.44	-13	-40.44	-76.05	-67.93	2.06	18.70	H
	24585	-52.30	-13	-39.30	-77.26	-65.75	2.04	17.64	H
	28098	-51.24	-13	-38.24	-77.06	-66.15	2.38	19.44	H
									H
	7023	-44.17	-13	-31.17	-70.71	-52.15	1.73	11.86	V
	10536	-41.60	-13	-28.60	-71.94	-47.94	2.41	10.90	V
	14052	-34.96	-13	-21.96	-72.4	-42.01	2.88	12.08	V
	21073	-42.96	-13	-29.96	-65.28	-57.45	2.06	18.70	V
	24585	-51.04	-13	-38.04	-77.35	-64.49	2.04	17.64	V
	28098	-49.42	-13	-36.42	-76.73	-64.33	2.38	19.44	V
									V

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



<Ant. 4+5>

EN-DC 2A-n77A

EN-DC 2A-n77A / 40MHz / PI/2 BPSK									
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	6965	-45.20	-13	-32.20	-71.99	-53.27	1.72	11.95	H
	10447	-41.54	-13	-28.54	-71.92	-47.94	2.39	10.94	H
	13929	-35.51	-13	-22.51	-73.2	-42.76	2.87	12.27	H
	20893	-53.86	-13	-40.86	-76.59	-68.32	2.07	18.68	H
	24375	-52.97	-13	-39.97	-78.02	-66.43	2.02	17.63	H
	27858	-51.74	-13	-38.74	-77.9	-66.59	2.34	19.34	H
									H
	6965	-45.17	-13	-32.17	-71.48	-53.24	1.72	11.95	V
	10447	-40.91	-13	-27.91	-71.11	-47.31	2.39	10.94	V
	13929	-35.16	-13	-22.16	-73.08	-42.41	2.87	12.27	V
	20893	-54.29	-13	-41.29	-76.63	-68.75	2.07	18.68	V
	24375	-51.33	-13	-38.33	-77.56	-64.79	2.02	17.63	V
	27858	-49.97	-13	-36.97	-77.49	-64.82	2.34	19.34	V
									V

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



<Ant. 0+5>

EN-DC 5A-n77A

EN-DC 5A-n77A / 40MHz / PI/2 BPSK									
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	6965	-44.96	-13	-31.96	-71.75	-53.03	1.72	11.95	H
	10447	-41.06	-13	-28.06	-71.44	-47.46	2.39	10.94	H
	13929	-35.23	-13	-22.23	-72.92	-42.48	2.87	12.27	H
	20893	-53.72	-13	-40.72	-76.45	-68.18	2.07	18.68	H
	24375	-52.92	-13	-39.92	-77.97	-66.38	2.02	17.63	H
	27858	-51.44	-13	-38.44	-77.6	-66.29	2.34	19.34	H
									H
	6965	-45.19	-13	-32.19	-71.5	-53.26	1.72	11.95	V
	10447	-41.72	-13	-28.72	-71.92	-48.12	2.39	10.94	V
	13929	-35.05	-13	-22.05	-72.97	-42.30	2.87	12.27	V
	20893	-53.55	-13	-40.55	-75.89	-68.01	2.07	18.68	V
	24375	-51.31	-13	-38.31	-77.54	-64.77	2.02	17.63	V
	27858	-50.37	-13	-37.37	-77.89	-65.22	2.34	19.34	V
									V

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



<Ant. 5+5>

EN-DC 48A-n77A

EN-DC 48A-n77A / 40MHz / PI/2 BPSK									
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	6965	-44.90	-13	-31.90	-71.69	-52.97	1.72	11.95	H
	10447	-41.43	-13	-28.43	-71.81	-47.83	2.39	10.94	H
	13929	-34.71	-13	-21.71	-72.4	-41.96	2.87	12.27	H
	20894	-53.17	-13	-40.17	-75.9	-67.63	2.07	18.68	H
	24376	-52.80	-13	-39.80	-77.85	-66.26	2.02	17.62	H
	27858	-51.37	-13	-38.37	-77.53	-66.22	2.34	19.34	H
									H
	6965	-45.42	-13	-32.42	-71.73	-53.49	1.72	11.95	V
	10447	-41.25	-13	-28.25	-71.45	-47.65	2.39	10.94	V
	13929	-35.27	-13	-22.27	-73.19	-42.52	2.87	12.27	V
	20894	-53.77	-13	-40.77	-76.11	-68.23	2.07	18.68	V
	24376	-50.47	-13	-37.47	-76.7	-63.93	2.02	17.62	V
	27858	-50.11	-13	-37.11	-77.63	-64.96	2.34	19.34	V
									V

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



MIMO <Ant. 5+6>

5G NR n77 HPUE

5G NR n77_HPUE / 40MHz / PI/2 BPSK									
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	6981	-44.36	-13	-31.36	-71.21	-52.41	1.72	11.93	H
	10472	-41.05	-13	-28.05	-71.51	-47.43	2.39	10.92	H
	13962	-35.05	-13	-22.05	-72.64	-42.26	2.87	12.24	H
	20941	-52.61	-13	-39.61	-75.37	-67.07	2.08	18.69	H
	24434	-52.08	-13	-39.08	-77.09	-65.47	2.02	17.57	H
	27923	-51.42	-13	-38.42	-77.47	-66.27	2.37	19.37	H
									H
	6981	-45.04	-13	-32.04	-71.41	-53.09	1.72	11.93	V
	10472	-41.57	-13	-28.57	-71.8	-47.95	2.39	10.92	V
	13962	-34.57	-13	-21.57	-72.36	-41.78	2.87	12.24	V
	20941	-53.30	-13	-40.30	-75.69	-67.76	2.08	18.69	V
	24434	-50.81	-13	-37.81	-77.1	-64.20	2.02	17.57	V
	27923	-50.00	-13	-37.00	-77.43	-64.85	2.37	19.37	V
									V
Middle	7101	-44.61	-13	-31.61	-71.83	-52.42	1.77	11.74	H
	10650	-40.90	-13	-27.90	-71.75	-47.18	2.47	10.90	H
	14202	-35.18	-13	-22.18	-72.36	-41.88	2.87	11.72	H
	21119	-53.52	-13	-40.52	-76.01	-68.03	2.04	18.70	H
	24644	-52.16	-13	-39.16	-77.12	-65.70	2.04	17.73	H
	28167	-51.03	-13	-38.03	-76.78	-65.98	2.37	19.47	H
									H
	7101	-45.10	-13	-32.10	-71.93	-52.91	1.77	11.74	V
	10650	-41.53	-13	-28.53	-72.13	-47.81	2.47	10.90	V
	14202	-34.93	-13	-21.93	-71.84	-41.63	2.87	11.72	V
	21119	-54.09	-13	-41.09	-76.33	-68.60	2.04	18.70	V
	24644	-51.09	-13	-38.09	-77.37	-64.63	2.04	17.73	V
	28167	-49.81	-13	-36.81	-77.13	-64.76	2.37	19.47	V
									V



5G NR n77_HPUE / 40MHz / PI/2 BPSK									
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	7101	-44.69	-13	-31.69	-71.91	-52.50	1.77	11.74	H
	10650	-41.33	-13	-28.33	-72.18	-47.61	2.47	10.90	H
	14202	-35.31	-13	-22.31	-72.49	-42.01	2.87	11.72	H
	21307	-54.12	-13	-41.12	-76.13	-68.69	1.98	18.70	H
	24848	-52.62	-13	-39.62	-77.58	-66.46	2.06	18.06	H
	28400	-51.48	-13	-38.48	-76.99	-66.57	2.32	19.56	H
									H
	7101	-45.22	-13	-32.22	-72.05	-53.03	1.77	11.74	V
	10650	-41.71	-13	-28.71	-72.31	-47.99	2.47	10.90	V
	14202	-35.26	-13	-22.26	-72.17	-41.96	2.87	11.72	V
	21307	-54.40	-13	-41.40	-76.28	-68.97	1.98	18.70	V
	24848	-51.45	-13	-38.45	-77.63	-65.29	2.06	18.06	V
	28400	-49.76	-13	-36.76	-77.09	-64.85	2.32	19.56	V
									V

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