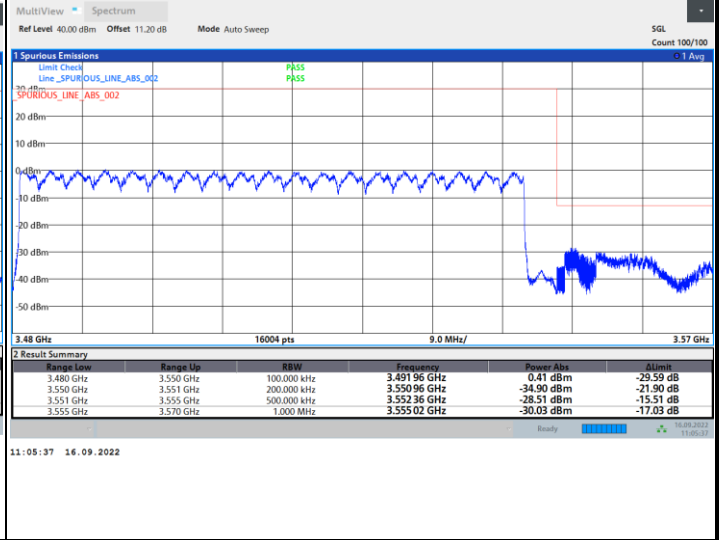
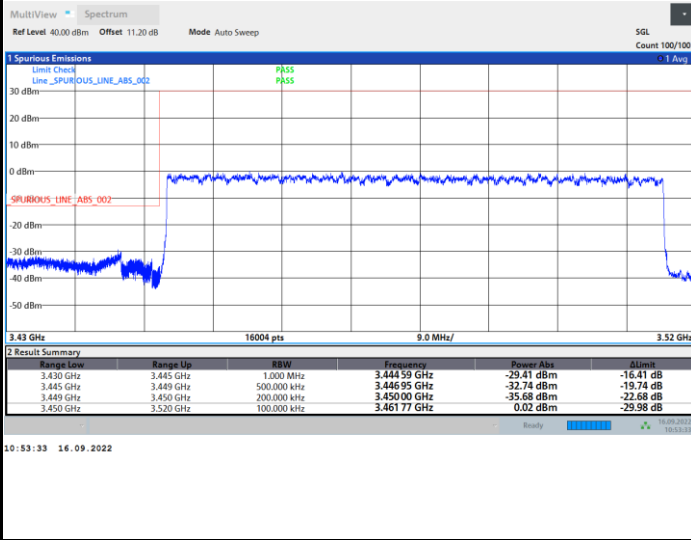




FR1 n77 / 70MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

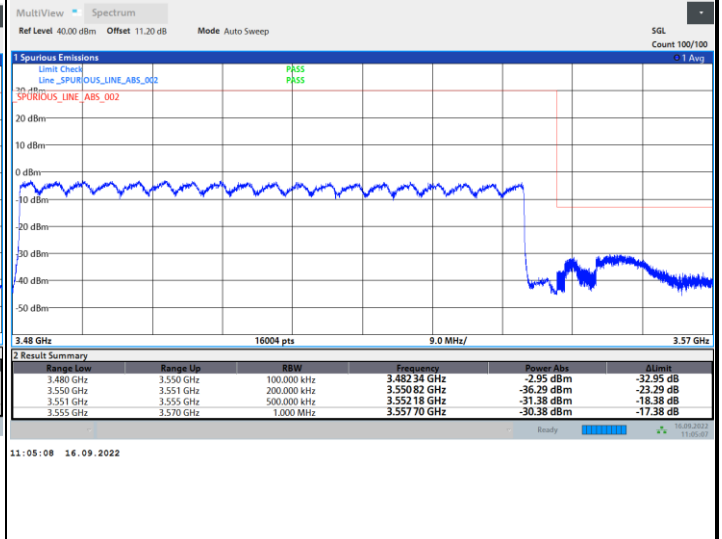
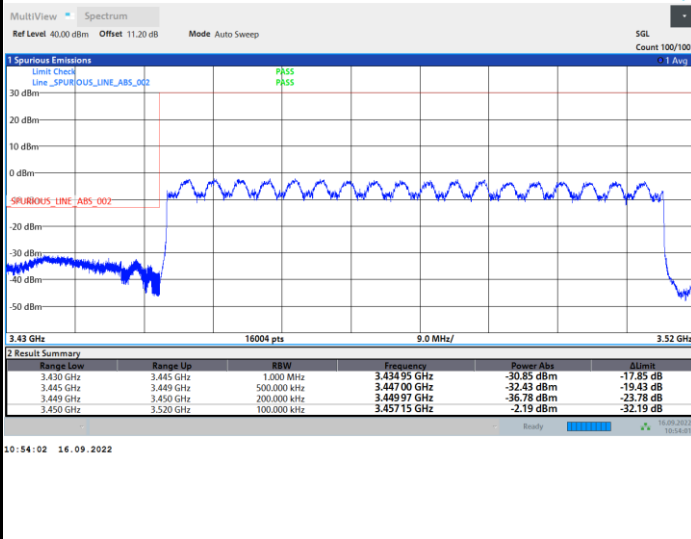
Highest Band Edge / Full RB



FR1 n77 / 70MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

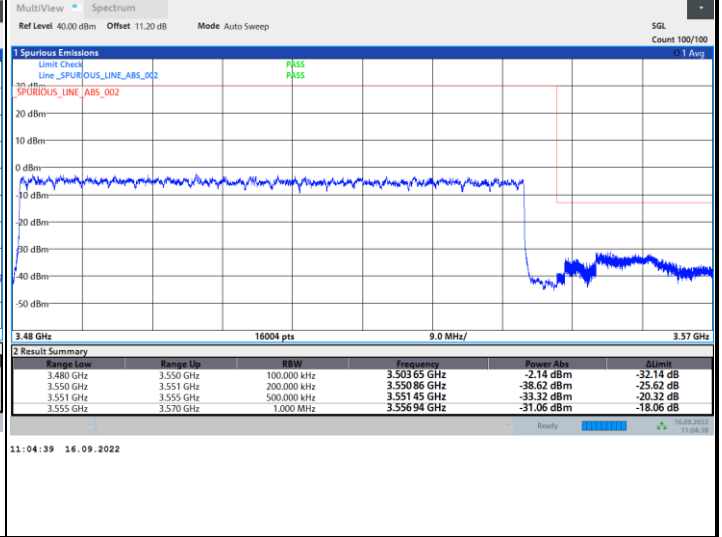
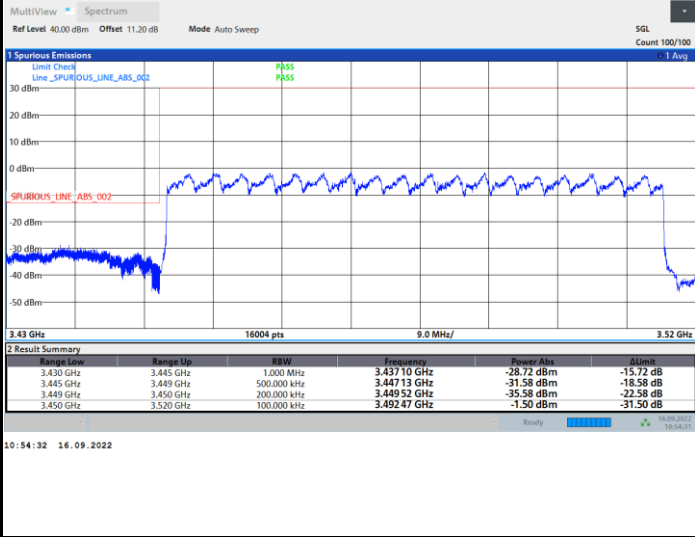




FR1 n77 / 70MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / Full RB

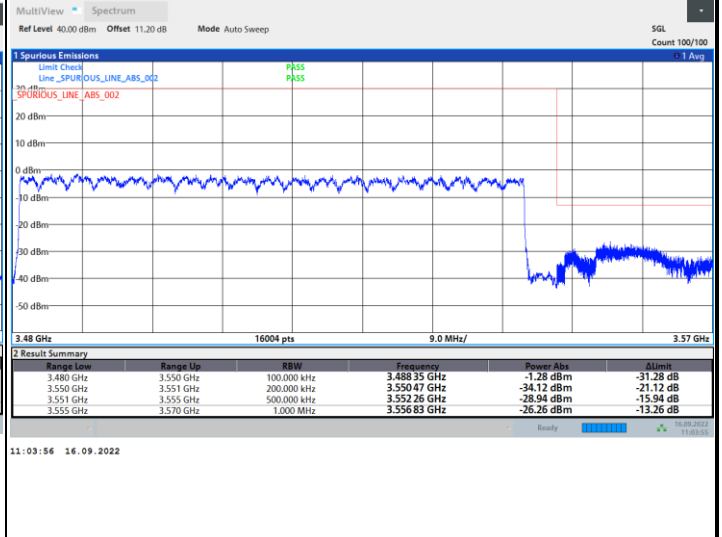
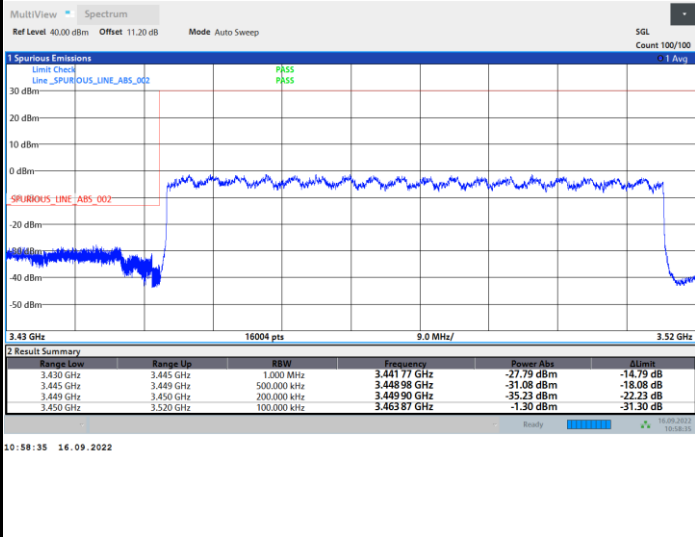
Highest Band Edge / Full RB

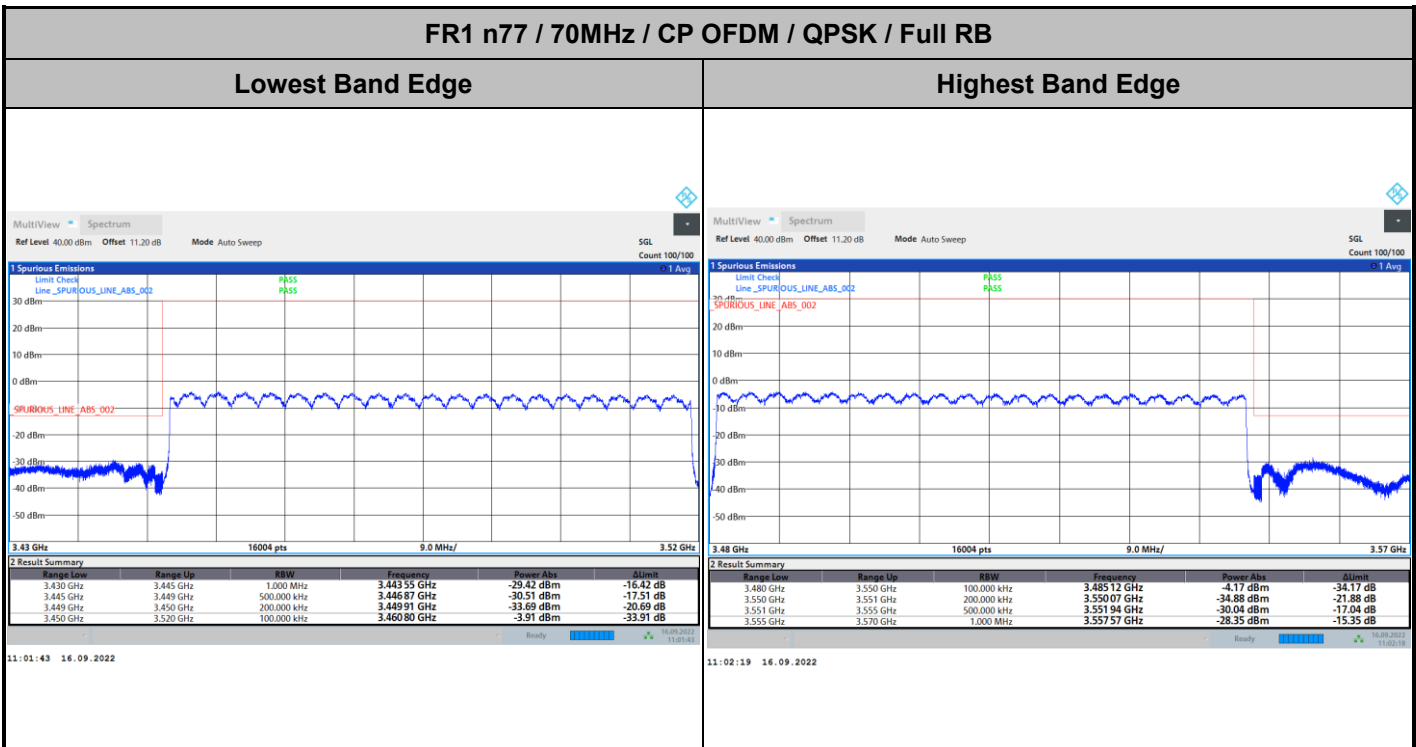
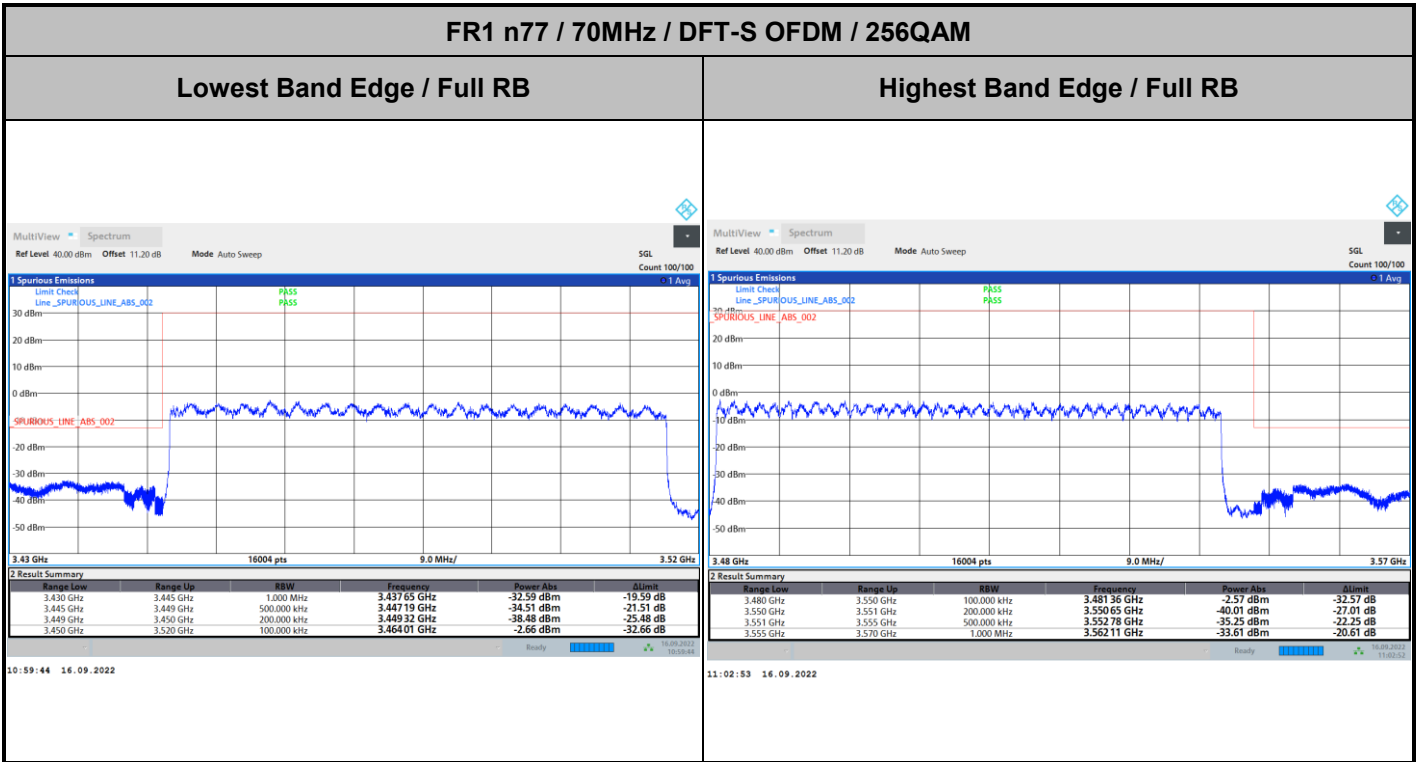


FR1 n77 / 70MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



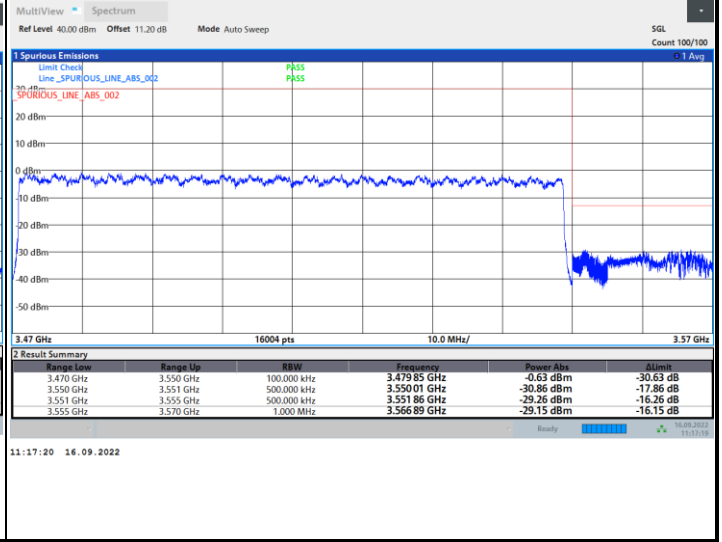
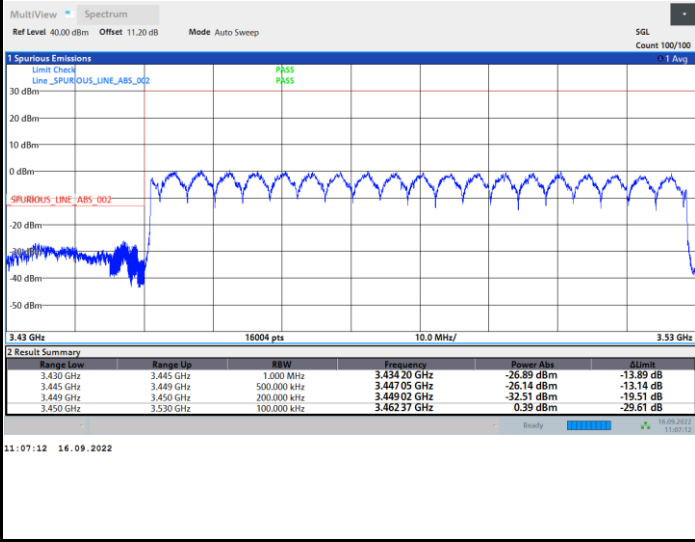




FR1 n77 / 80MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

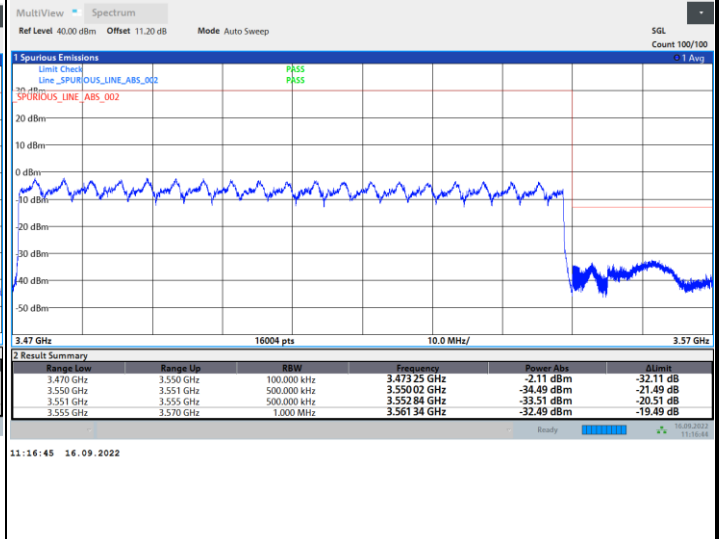
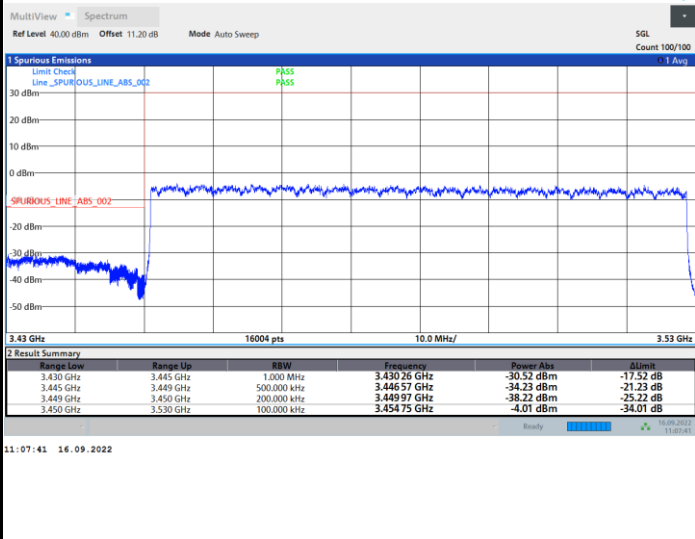
Highest Band Edge / Full RB



FR1 n77 / 80MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

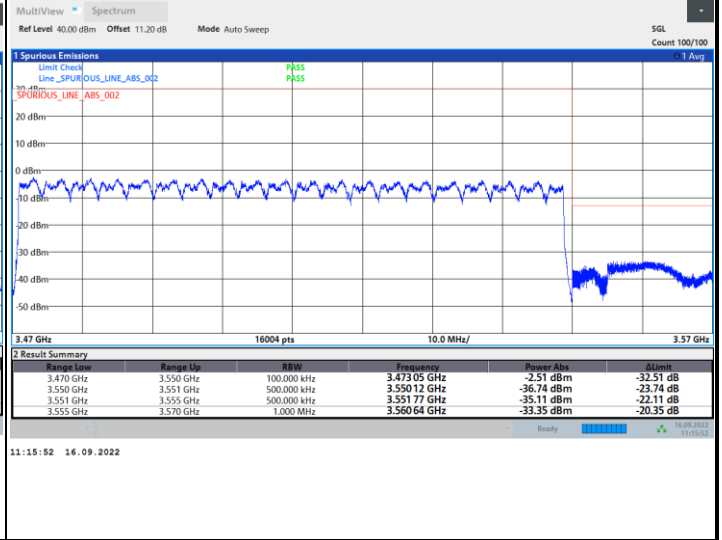
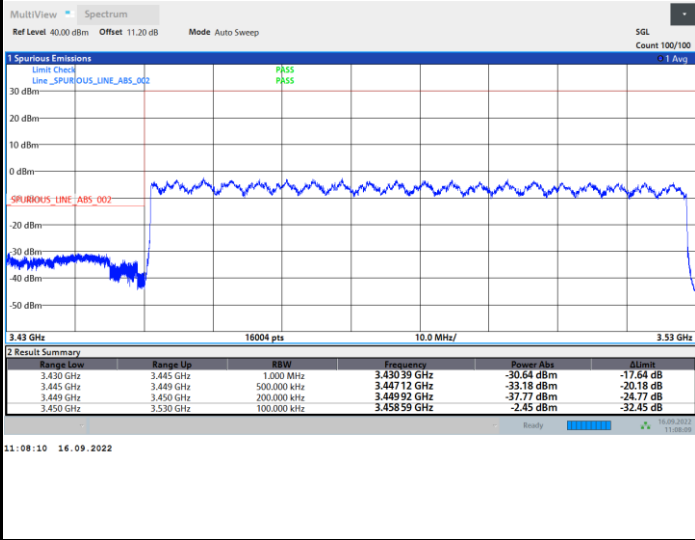




FR1 n77 / 80MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / Full RB

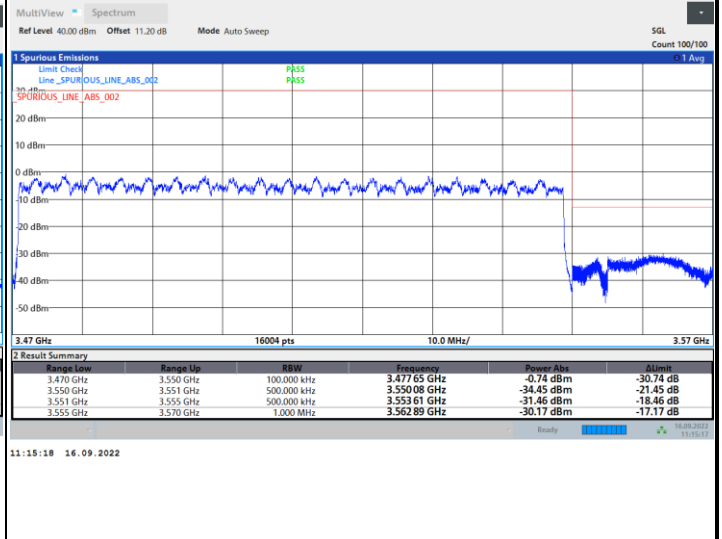
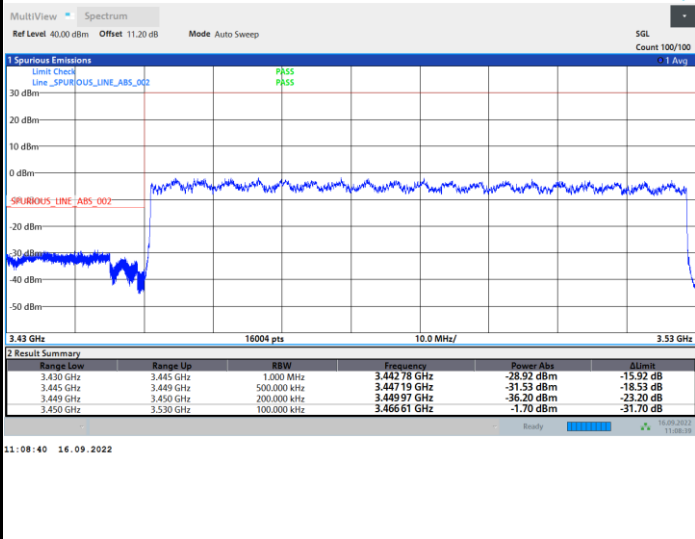
Highest Band Edge / Full RB



FR1 n77 / 80MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

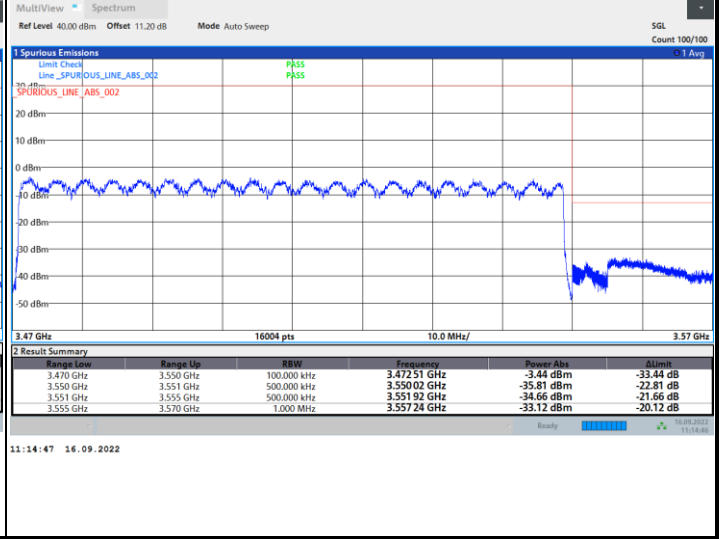
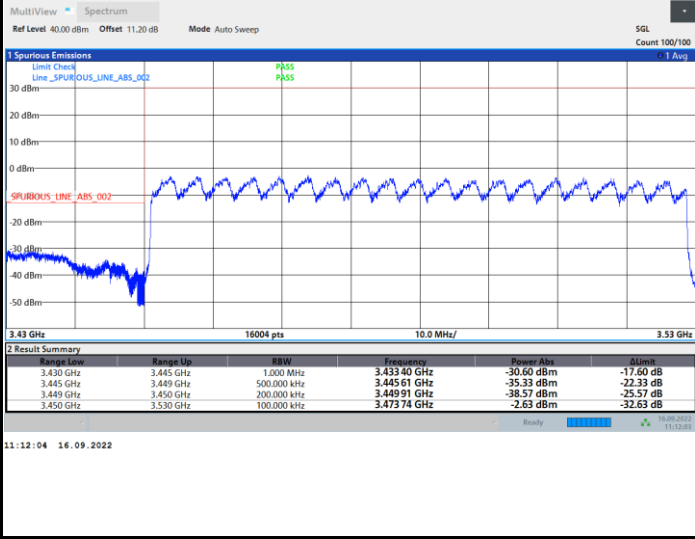




FR1 n77 / 80MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / Full RB

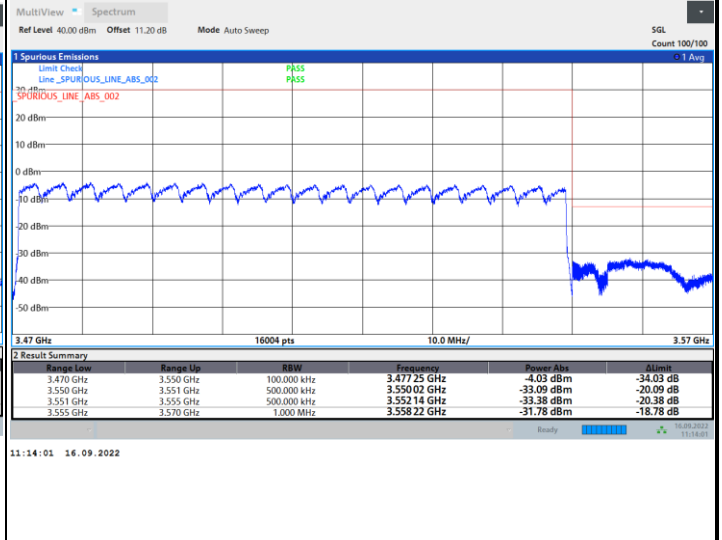
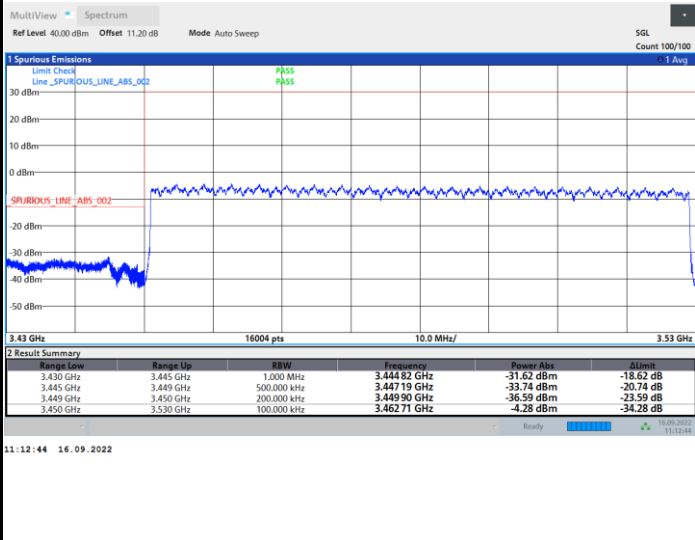
Highest Band Edge / Full RB



FR1 n77 / 80MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge

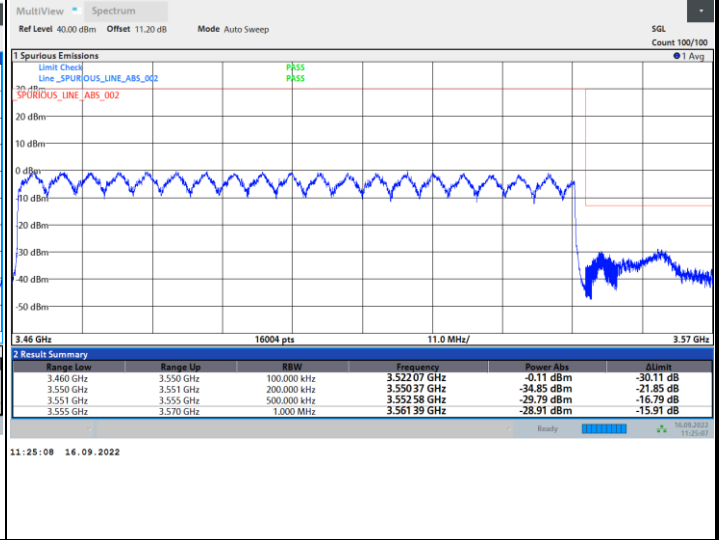
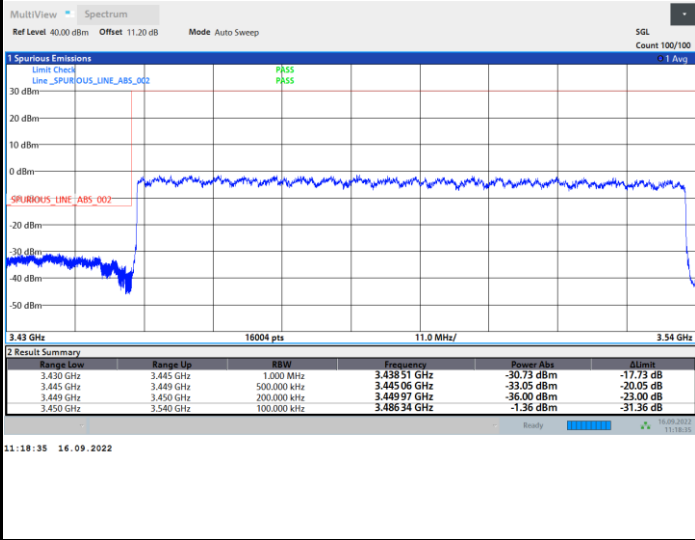




FR1 n77 / 90MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

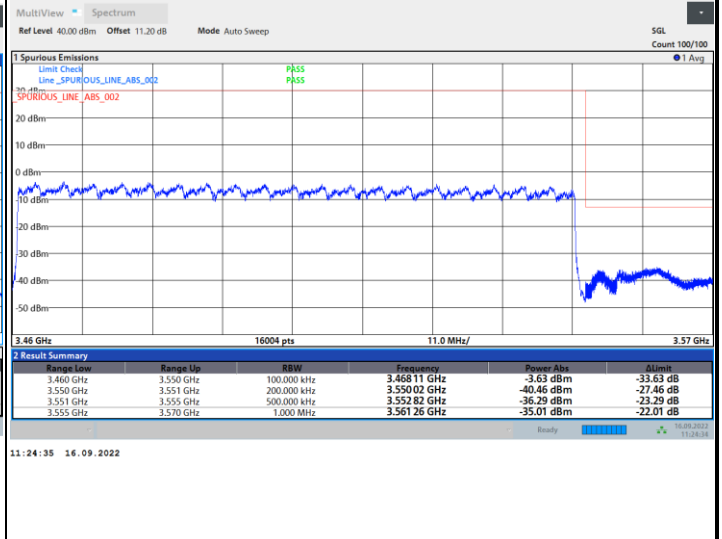
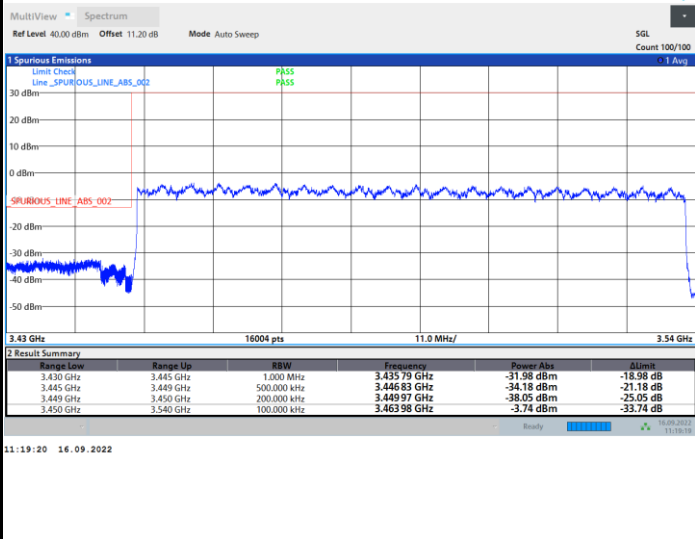
Highest Band Edge / Full RB



FR1 n77 / 90MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

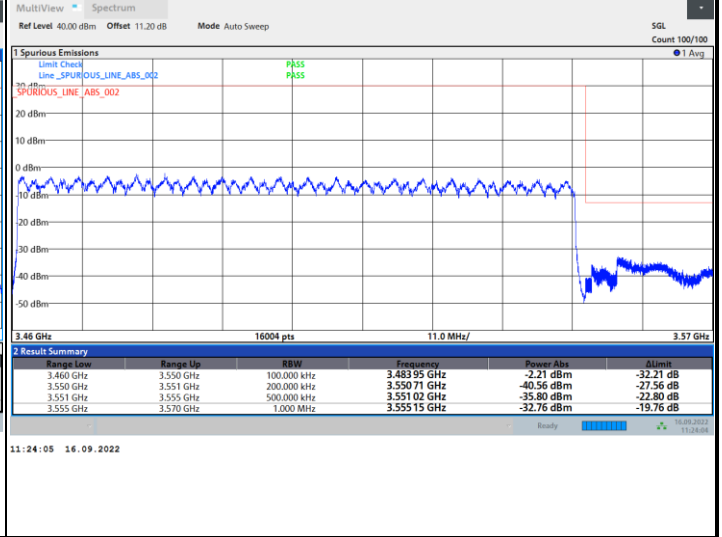
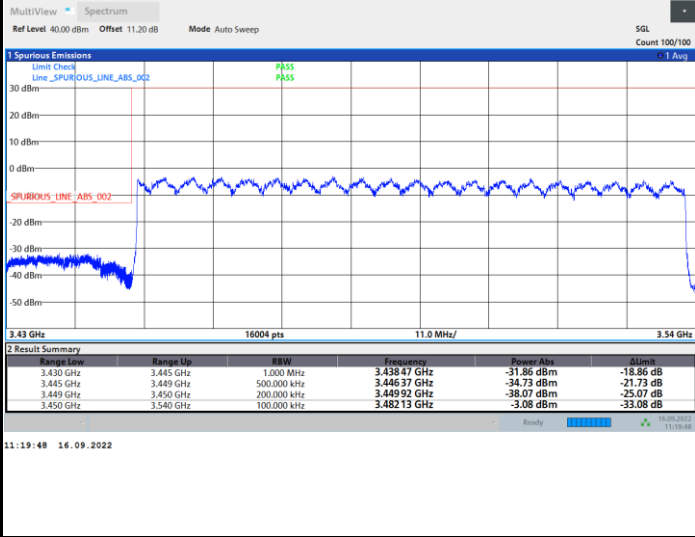




FR1 n77 / 90MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / Full RB

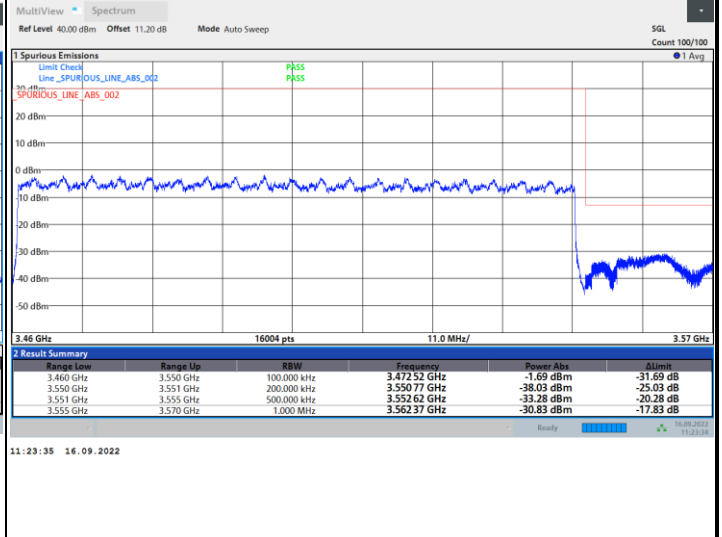
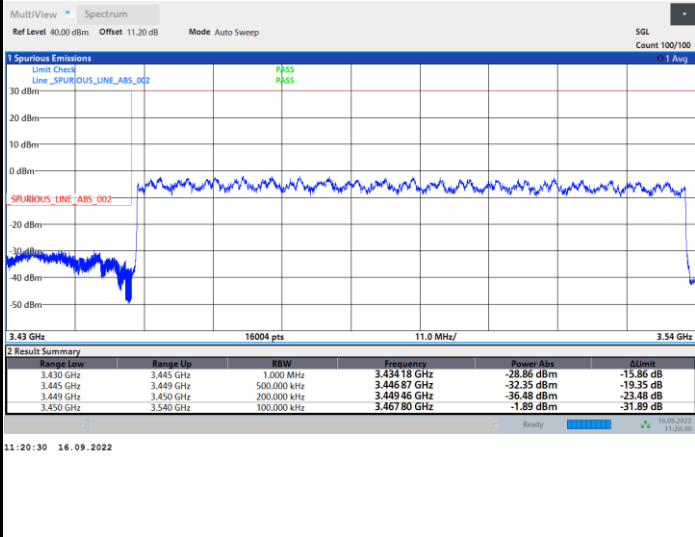
Highest Band Edge / Full RB



FR1 n77 / 90MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

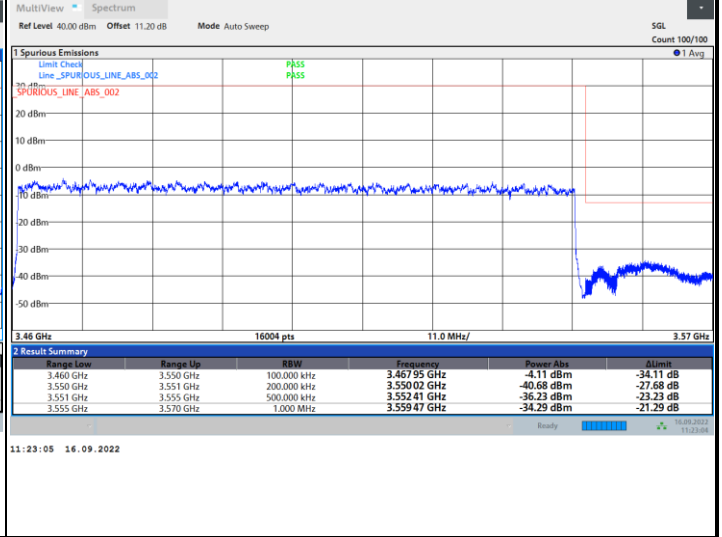
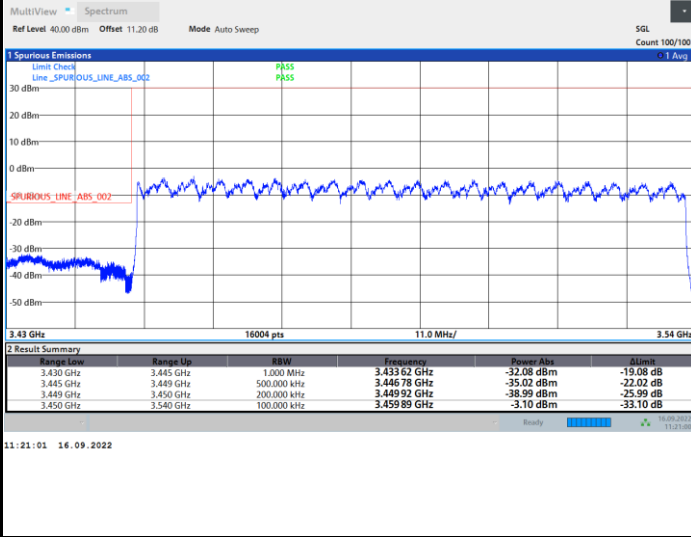




FR1 n77 / 90MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / Full RB

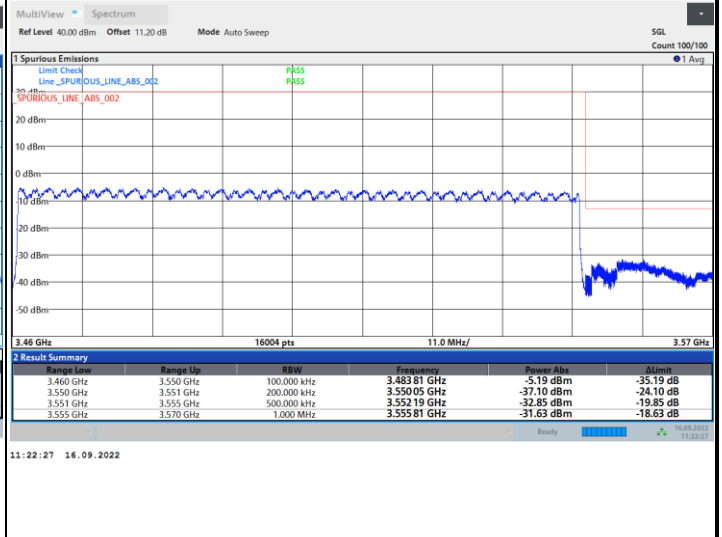
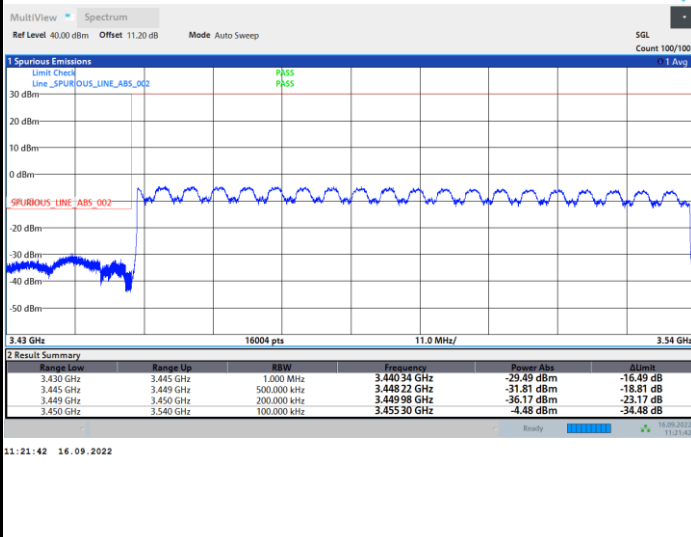
Highest Band Edge / Full RB



FR1 n77 / 90MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge

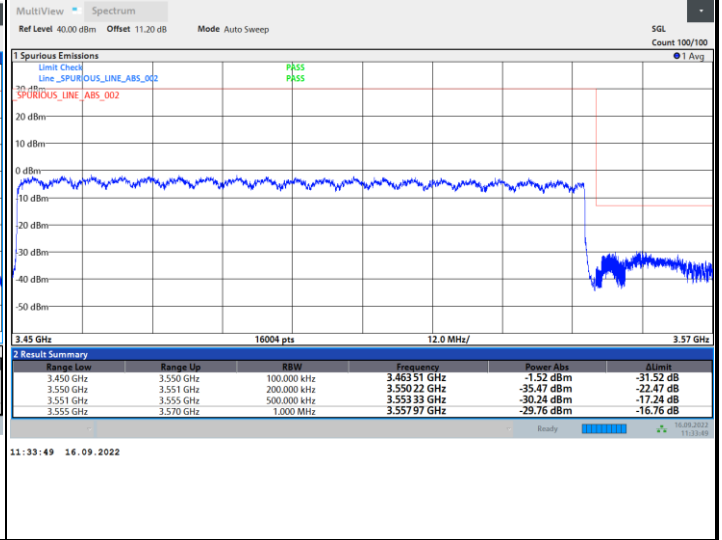
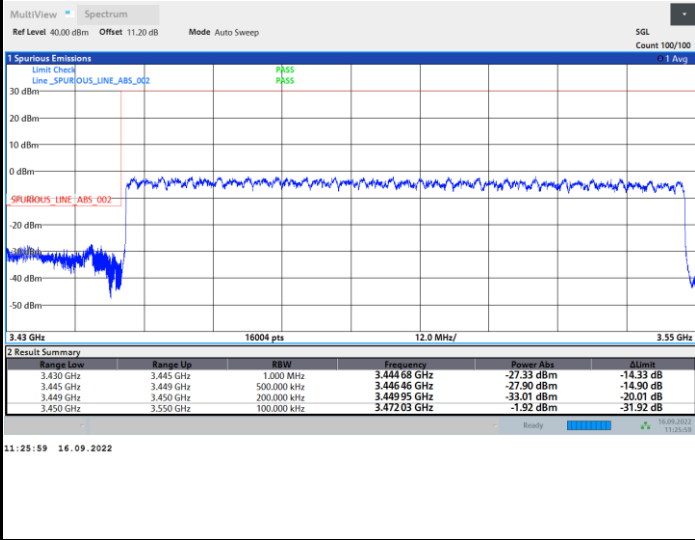




FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

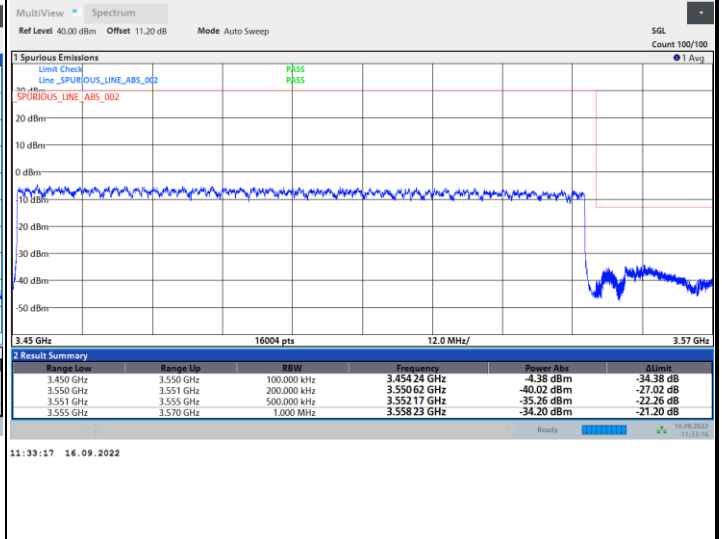
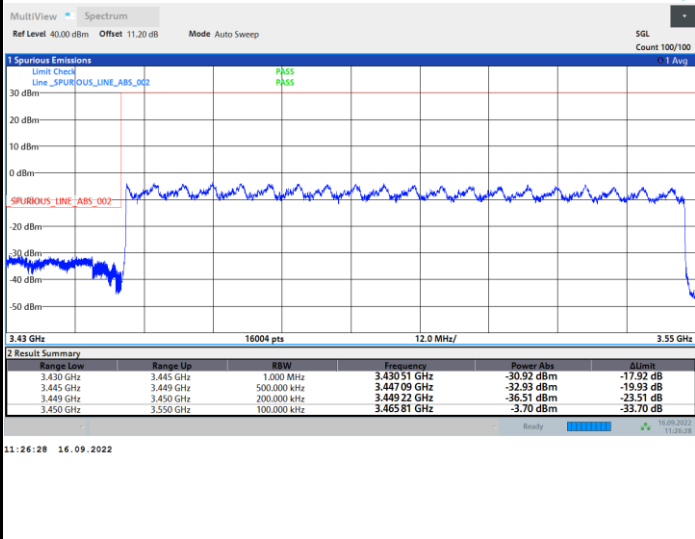
Highest Band Edge / Full RB



FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

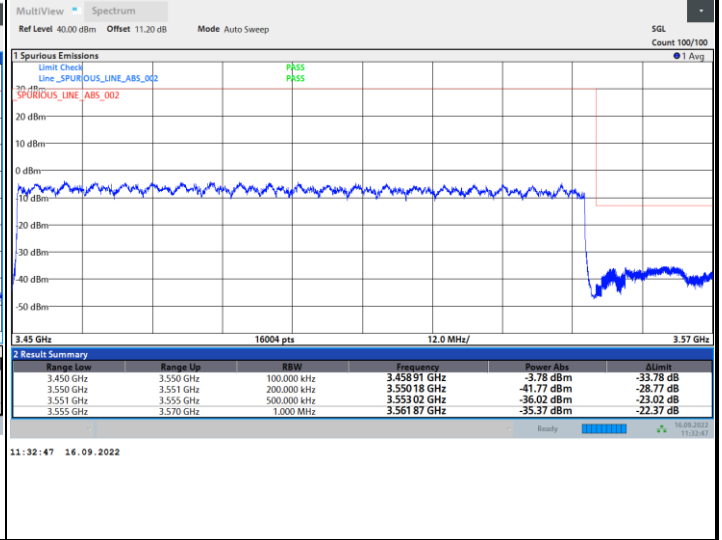
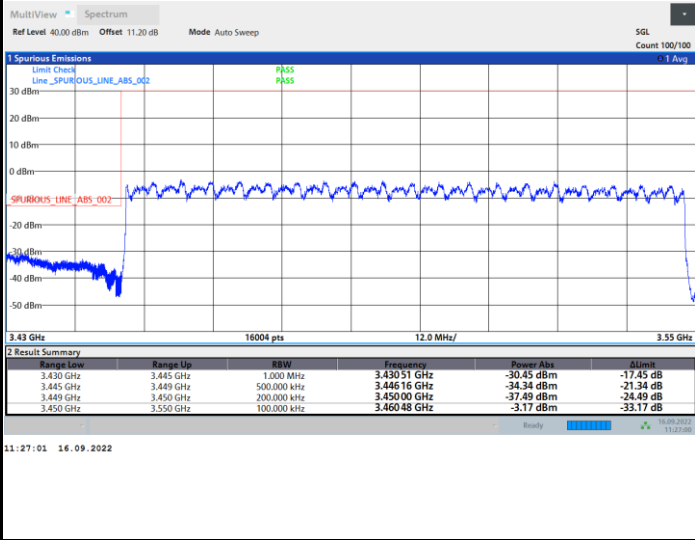




FR1 n77 / 100MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / Full RB

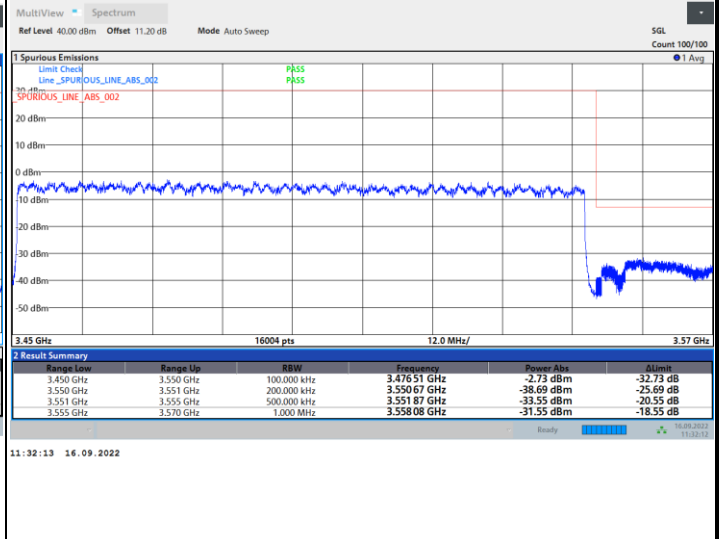
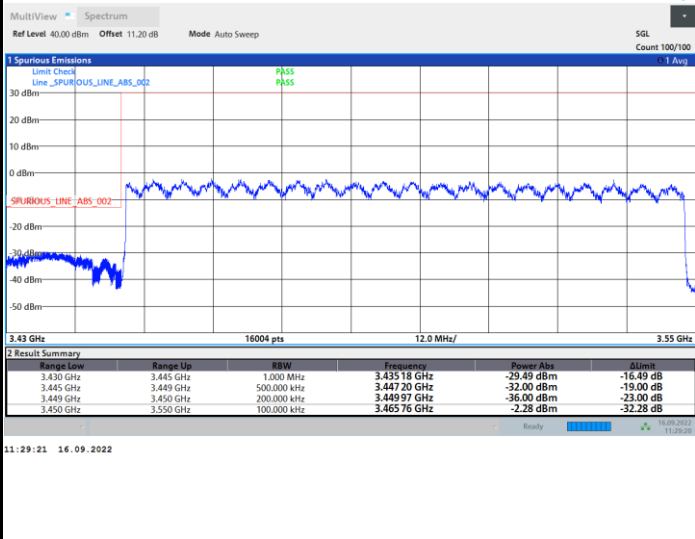
Highest Band Edge / Full RB



FR1 n77 / 100MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

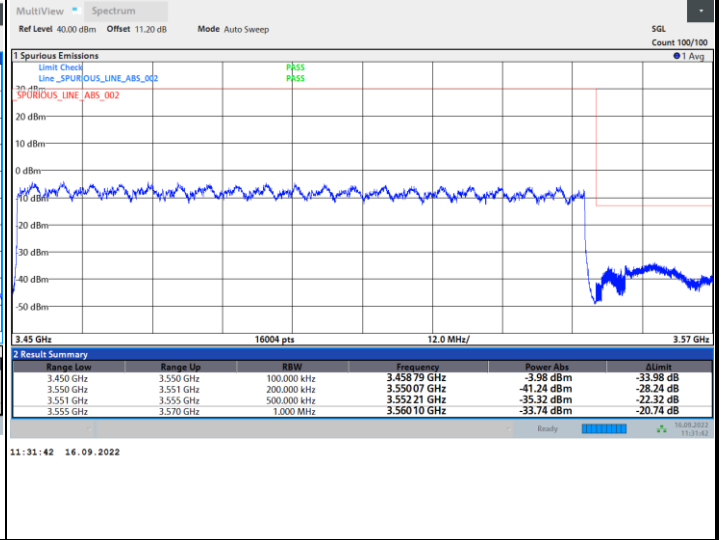
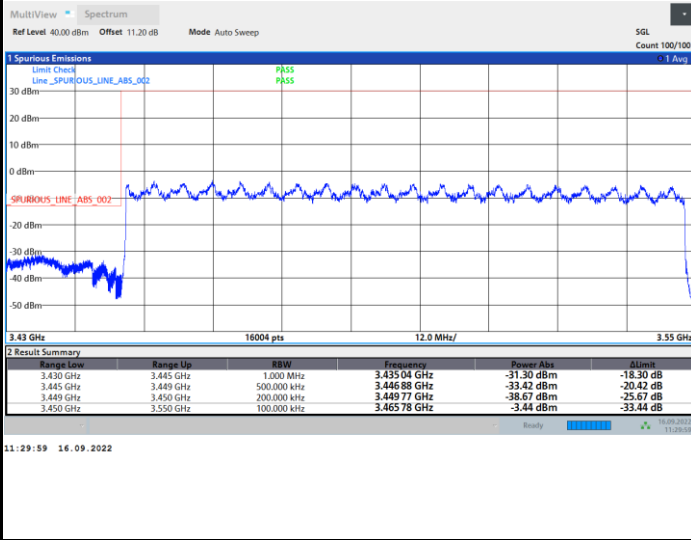




FR1 n77 / 100MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / Full RB

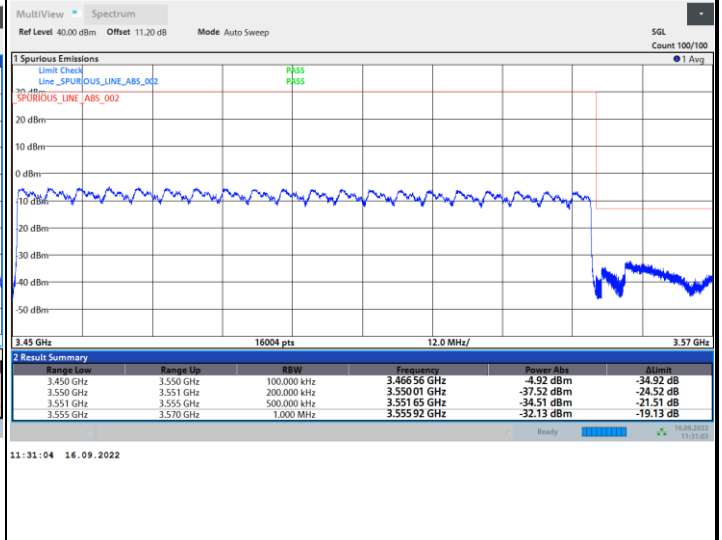
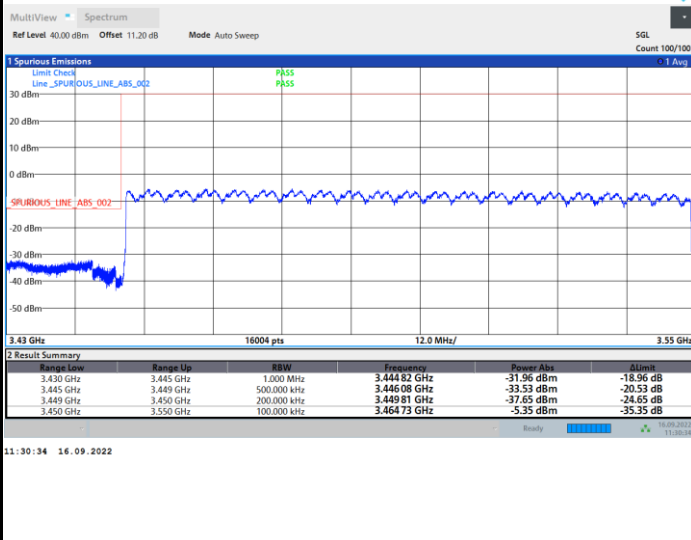
Highest Band Edge / Full RB



FR1 n77 / 100MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



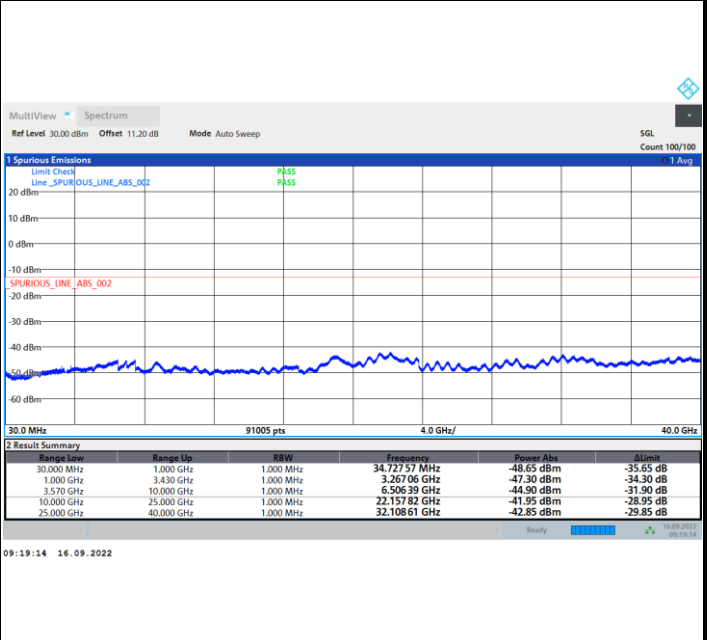
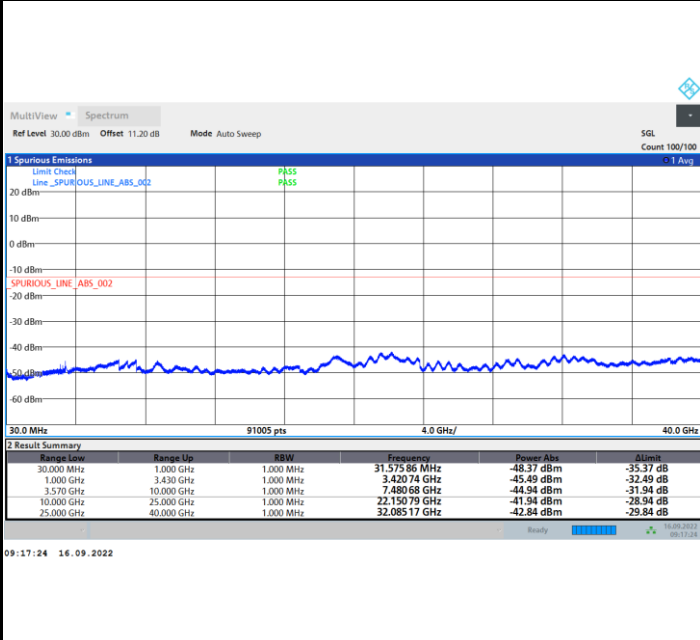


Conducted Spurious Emission

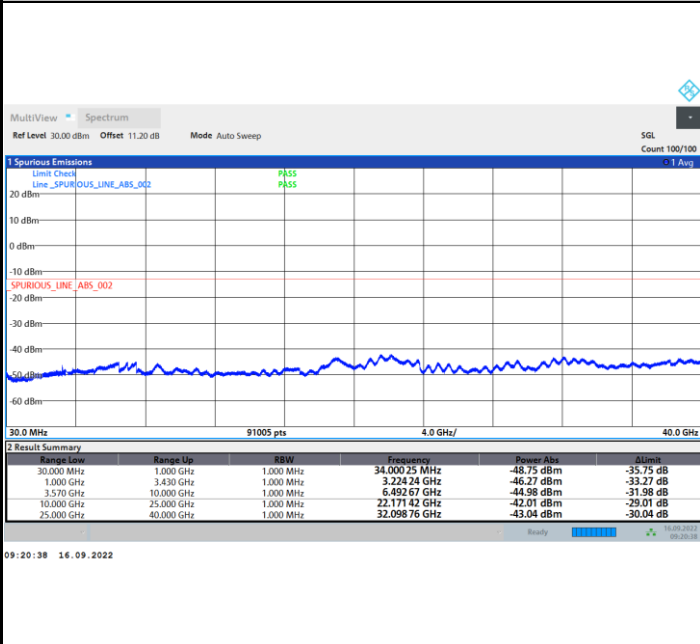
FR1 n77 / 20MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel



Highest Channel





Frequency Stability

Test Conditions		FR1 n77 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0085	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0101	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0059	
0	Normal Voltage	0.0093	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0053	
-30	Normal Voltage	0.0073	
20	Maximum Voltage	0.0046	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0027	

Note:

- 1. Normal Voltage = 4.05 V. ; Battery End Point (BEP) = 3.85 V. ; Maximum Voltage = 4.35 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

<Ant. 11>

5G NR n77

5G NR n77 / 20MHz / 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	6902	-43.15	-13	-30.15	-72.56	-51.35	1.84	12.19	H
	10353	-35.94	-13	-22.94	-71.74	-42.42	2.26	10.89	H
	13805	-29.48	-13	-16.48	-73.38	-37.25	2.63	12.56	H
	20708	-62.30	-13	-49.30	-75.7	-74.84	3.22	17.92	H
	24159	-59.23	-13	-46.23	-76.89	-71.79	3.78	18.50	H
	27610	-56.96	-13	-43.96	-77.49	-70.41	3.95	19.54	H
									H
	6902	-42.31	-13	-29.31	-72.22	-50.51	1.84	12.19	V
	10353	-36.58	-13	-23.58	-71.59	-43.06	2.26	10.89	V
	13805	-30.10	-13	-17.10	-72.97	-37.87	2.63	12.56	V
	20708	-62.35	-13	-49.35	-75.51	-74.89	3.22	17.92	V
	24159	-59.04	-13	-46.04	-76.34	-71.60	3.78	18.50	V
	27610	-57.13	-13	-44.13	-77.34	-70.58	3.95	19.54	V
									V
Middle	6982	-42.09	-13	-29.09	-71.58	-49.97	1.84	11.87	H
	10473	-35.71	-13	-22.71	-71.65	-42.12	2.25	10.82	H
	13965	-30.14	-13	-17.14	-73.39	-37.75	2.66	12.43	H
	20948	-62.20	-13	-49.20	-75.61	-74.63	3.24	17.82	H
	24439	-54.57	-13	-41.57	-72.73	-67.33	3.76	18.66	H
	27930	-56.32	-13	-43.32	-76.78	-69.88	3.97	19.67	H
									H
	6982	-41.74	-13	-28.74	-71.39	-49.62	1.84	11.87	V
	10473	-36.26	-13	-23.26	-71.6	-42.67	2.25	10.82	V
	13965	-30.12	-13	-17.12	-72.71	-37.73	2.66	12.43	V
	20948	-62.41	-13	-49.41	-75.53	-74.84	3.24	17.82	V
	24439	-54.66	-13	-41.66	-72.51	-67.42	3.76	18.66	V
	27930	-57.24	-13	-44.24	-77.31	-70.80	3.97	19.67	V



Highest	7062	-42.06	-13	-29.06	-71.79	-49.71	1.84	11.65	H
	10593	-36.55	-13	-23.55	-72.72	-42.90	2.24	10.74	H
	14125	-29.88	-13	-16.88	-72.97	-37.40	2.66	12.33	H
	21188	-62.64	-13	-49.64	-76.64	-75.23	3.29	18.03	H
	24719	-52.10	-13	-39.10	-70.37	-64.79	3.73	18.57	H
	28250	-56.17	-13	-43.17	-76.65	-69.59	3.98	19.55	H
									H
	7062	-42.27	-13	-29.27	-72.19	-49.92	1.84	11.65	V
	10593	-36.78	-13	-23.78	-72.48	-43.13	2.24	10.74	V
	14125	-29.59	-13	-16.59	-72.38	-37.11	2.66	12.33	V
	21188	-62.25	-13	-49.25	-75.94	-74.84	3.29	18.03	V
	24719	-47.02	-13	-34.02	-64.98	-59.71	3.73	18.57	V
	28250	-56.56	-13	-43.56	-76.63	-69.98	3.98	19.55	V
									V

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



5G NR n78

5G NR n78 / 20MHz / 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	6903	-42.57	-13	-29.57	-71.98	-50.76	1.84	12.19	H
	10354	-35.46	-13	-22.46	-71.26	-41.94	2.26	10.89	H
	13805	-28.86	-13	-15.86	-72.76	-36.63	2.63	12.56	H
	20708	-56.93	-13	-43.93	-70.33	-69.47	3.22	17.92	H
	24159	-55.56	-13	-42.56	-73.22	-68.12	3.78	18.50	H
	27610	-55.47	-13	-42.47	-76	-68.92	3.95	19.54	H
									H
	6903	-41.96	-13	-28.96	-71.87	-50.15	1.84	12.19	V
	10354	-36.59	-13	-23.59	-71.6	-43.07	2.26	10.89	V
	13805	-29.77	-13	-16.77	-72.64	-37.54	2.63	12.56	V
	20708	-60.39	-13	-47.39	-73.55	-72.93	3.22	17.92	V
	24159	-51.72	-13	-38.72	-69.02	-64.28	3.78	18.50	V
	27610	-57.14	-13	-44.14	-77.35	-70.59	3.95	19.54	V
									V
Middle	6983	-41.75	-13	-28.75	-71.24	-49.63	1.84	11.87	H
	10474	-35.04	-13	-22.04	-70.99	-41.45	2.25	10.82	H
	13965	-29.20	-13	-16.20	-72.45	-36.81	2.66	12.43	H
	20948	-58.21	-13	-45.21	-71.62	-70.64	3.24	17.82	H
	24439	-43.51	-13	-30.51	-61.67	-56.27	3.76	18.66	H
	27930	-56.19	-13	-43.19	-76.65	-69.75	3.97	19.67	H
									H
	6983	-40.97	-13	-27.97	-70.62	-48.85	1.84	11.87	V
	10474	-35.30	-13	-22.30	-70.65	-41.71	2.25	10.82	V
	13965	-30.26	-13	-17.26	-72.85	-37.87	2.66	12.43	V
	20948	-60.72	-13	-47.72	-73.84	-73.15	3.24	17.82	V
	24439	-52.37	-13	-39.37	-70.22	-65.13	3.76	18.66	V
	27930	-56.07	-13	-43.07	-76.14	-69.63	3.97	19.67	V
									V



Highest	7063	-42.05	-13	-29.05	-71.8	-49.70	1.84	11.64	H
	10594	-35.96	-13	-22.96	-72.13	-42.31	2.24	10.74	H
	14125	-29.52	-13	-16.52	-72.61	-37.04	2.66	12.33	H
	21188	-60.62	-13	-47.62	-74.62	-73.21	3.29	18.03	H
	24719	-38.73	-13	-25.73	-57	-51.42	3.73	18.57	H
	28250	-56.00	-13	-43.00	-76.48	-69.42	3.98	19.55	H
									H
	7063	-41.83	-13	-28.83	-71.76	-49.48	1.84	11.64	V
	10594	-36.48	-13	-23.48	-72.18	-42.83	2.24	10.74	V
	14125	-29.76	-13	-16.76	-72.55	-37.28	2.66	12.33	V
	21188	-59.74	-13	-46.74	-73.43	-72.33	3.29	18.03	V
	24719	-41.14	-13	-28.14	-59.1	-53.83	3.73	18.57	V
	28250	-56.55	-13	-43.55	-76.62	-69.97	3.98	19.55	V
									V

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



<Ant. 2 + Ant. 12>

EN-DC 66A-n77A

EN-DC 66A-n77A / 20MHz / 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	6902	-42.61	-13	-29.61	-72.02	-50.81	1.84	12.19	H
	10353	-35.42	-13	-22.42	-71.22	-41.90	2.26	10.89	H
	13805	-29.14	-13	-16.14	-73.04	-36.91	2.63	12.56	H
	20708	-62.78	-13	-49.78	-76.18	-75.32	3.22	17.92	H
	24159	-58.83	-13	-45.83	-76.49	-71.39	3.78	18.50	H
	27610	-56.71	-13	-43.71	-77.24	-70.16	3.95	19.54	H
									H
	6902	-42.06	-13	-29.06	-71.97	-50.26	1.84	12.19	V
	10353	-36.87	-13	-23.87	-71.88	-43.35	2.26	10.89	V
	13805	-30.26	-13	-17.26	-73.13	-38.03	2.63	12.56	V
	20708	-62.97	-13	-49.97	-76.13	-75.51	3.22	17.92	V
	24159	-59.30	-13	-46.30	-76.6	-71.86	3.78	18.50	V
	27610	-57.16	-13	-44.16	-77.37	-70.61	3.95	19.54	V
									V
Middle	6982	-42.21	-13	-29.21	-71.7	-50.09	1.84	11.87	H
	10473	-35.34	-13	-22.34	-71.28	-41.75	2.25	10.82	H
	13965	-30.17	-13	-17.17	-73.42	-37.78	2.66	12.43	H
	20948	-62.13	-13	-49.13	-75.54	-74.56	3.24	17.82	H
	24439	-57.83	-13	-44.83	-75.99	-70.59	3.76	18.66	H
	27930	-56.35	-13	-43.35	-76.81	-69.91	3.97	19.67	H
									H
	6982	-42.10	-13	-29.10	-71.75	-49.98	1.84	11.87	V
	10473	-36.34	-13	-23.34	-71.68	-42.75	2.25	10.82	V
	13965	-30.76	-13	-17.76	-73.35	-38.37	2.66	12.43	V
	20948	-62.70	-13	-49.70	-75.82	-75.13	3.24	17.82	V
	24439	-59.31	-13	-46.31	-77.16	-72.07	3.76	18.66	V
	27930	-56.77	-13	-43.77	-76.84	-70.33	3.97	19.67	V
									V



Highest	7062	-42.20	-13	-29.20	-71.94	-49.85	1.84	11.65	H
	10593	-36.53	-13	-23.53	-72.7	-42.88	2.24	10.74	H
	14125	-29.51	-13	-16.51	-72.6	-37.03	2.66	12.33	H
	21188	-62.73	-13	-49.73	-76.73	-75.32	3.29	18.03	H
	24719	-59.20	-13	-46.20	-77.47	-71.89	3.73	18.57	H
	28250	-55.76	-13	-42.76	-76.24	-69.18	3.98	19.55	H
									H
	7062	-42.15	-13	-29.15	-72.07	-49.80	1.84	11.65	V
	10593	-36.64	-13	-23.64	-72.34	-42.99	2.24	10.74	V
	14125	-29.66	-13	-16.66	-72.45	-37.18	2.66	12.33	V
	21188	-63.05	-13	-50.05	-76.74	-75.64	3.29	18.03	V
	24719	-59.27	-13	-46.27	-77.23	-71.96	3.73	18.57	V
	28250	-51.95	-13	-38.95	-72.02	-65.37	3.98	19.55	V
									V

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



EN-DC 66A-n78A

EN-DC 66A-n78A / 20MHz / 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	6903	-42.97	-13	-29.97	-72.38	-51.16	1.84	12.19	H
	10354	-35.92	-13	-22.92	-71.72	-42.40	2.26	10.89	H
	13805	-29.60	-13	-16.60	-73.5	-37.37	2.63	12.56	H
	20708	-62.82	-13	-49.82	-76.22	-75.36	3.22	17.92	H
	24159	-59.23	-13	-46.23	-76.89	-71.79	3.78	18.50	H
	27610	-57.07	-13	-44.07	-77.6	-70.52	3.95	19.54	H
									H
	6903	-42.63	-13	-29.63	-72.54	-50.82	1.84	12.19	V
	10354	-37.24	-13	-24.24	-72.25	-43.72	2.26	10.89	V
	13805	-30.57	-13	-17.57	-73.44	-38.34	2.63	12.56	V
	20708	-63.16	-13	-50.16	-76.32	-75.70	3.22	17.92	V
	24159	-59.81	-13	-46.81	-77.11	-72.37	3.78	18.50	V
	27610	-57.27	-13	-44.27	-77.48	-70.72	3.95	19.54	V
									V
Middle	6983	-42.74	-13	-29.74	-72.23	-50.62	1.84	11.87	H
	10474	-36.07	-13	-23.07	-72.02	-42.48	2.25	10.82	H
	13965	-30.05	-13	-17.05	-73.3	-37.66	2.66	12.43	H
	20948	-62.56	-13	-49.56	-75.97	-74.99	3.24	17.82	H
	24439	-58.64	-13	-45.64	-76.8	-71.40	3.76	18.66	H
	27930	-56.05	-13	-43.05	-76.51	-69.61	3.97	19.67	H
									H
	6983	-42.51	-13	-29.51	-72.16	-50.39	1.84	11.87	V
	10474	-37.02	-13	-24.02	-72.37	-43.43	2.25	10.82	V
	13965	-30.72	-13	-17.72	-73.31	-38.33	2.66	12.43	V
	20948	-62.74	-13	-49.74	-75.86	-75.17	3.24	17.82	V
	24439	-57.41	-13	-44.41	-75.26	-70.17	3.76	18.66	V
	27930	-56.59	-13	-43.59	-76.66	-70.15	3.97	19.67	V
									V



Highest	7063	-42.38	-13	-29.38	-72.13	-50.03	1.84	11.64	H
	10594	-36.57	-13	-23.57	-72.74	-42.92	2.24	10.74	H
	14125	-30.10	-13	-17.10	-73.19	-37.62	2.66	12.33	H
	21188	-62.84	-13	-49.84	-76.84	-75.43	3.29	18.03	H
	24719	-55.73	-13	-42.73	-74	-68.42	3.73	18.57	H
	28250	-54.99	-13	-41.99	-75.47	-68.41	3.98	19.55	H
									H
	7063	-42.08	-13	-29.08	-72.01	-49.73	1.84	11.64	V
	10594	-36.94	-13	-23.94	-72.64	-43.29	2.24	10.74	V
	14125	-30.19	-13	-17.19	-72.98	-37.71	2.66	12.33	V
	21188	-63.25	-13	-50.25	-76.94	-75.84	3.29	18.03	V
	24719	-57.46	-13	-44.46	-75.42	-70.15	3.73	18.57	V
	28250	-56.38	-13	-43.38	-76.45	-69.80	3.98	19.55	V
									V

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