

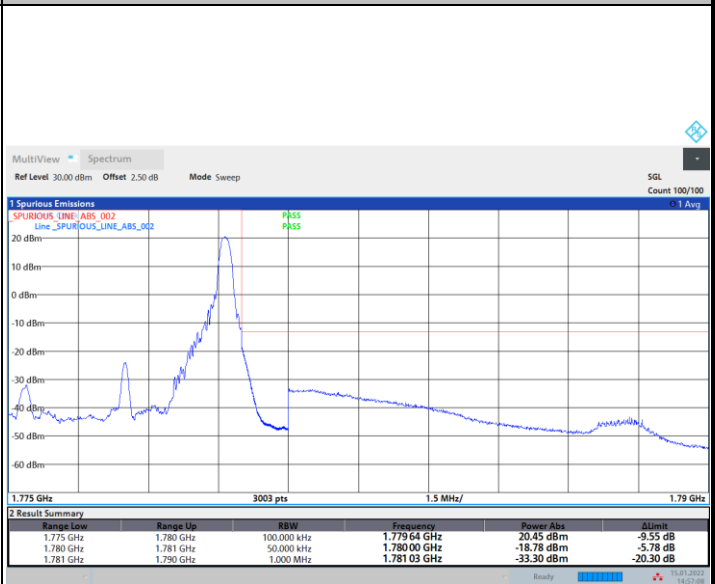
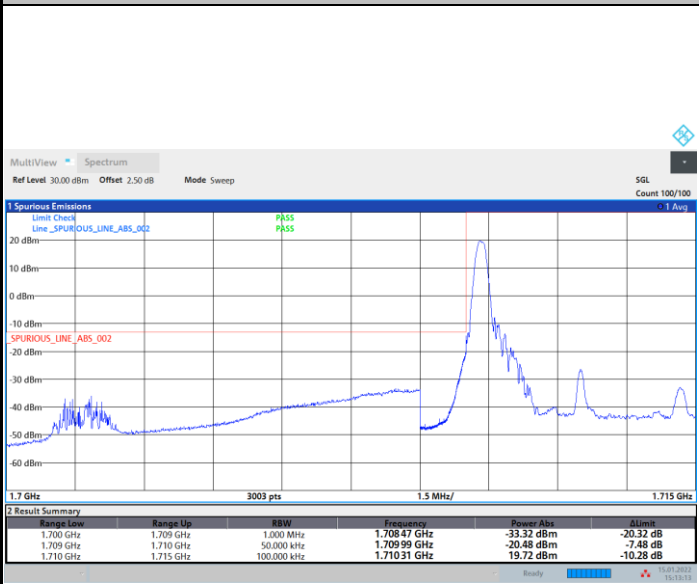


Conducted Band Edge

FR1 n66 / 5MHz / DFT-S OFDM / PI/2 BPSK

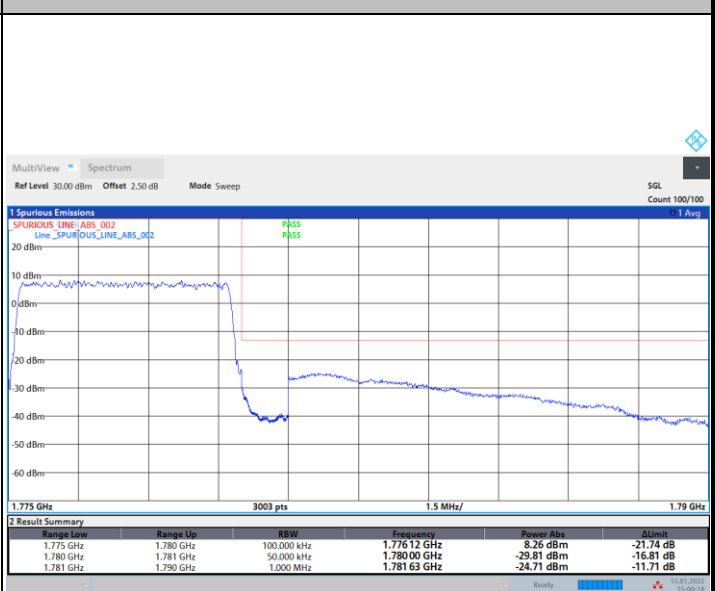
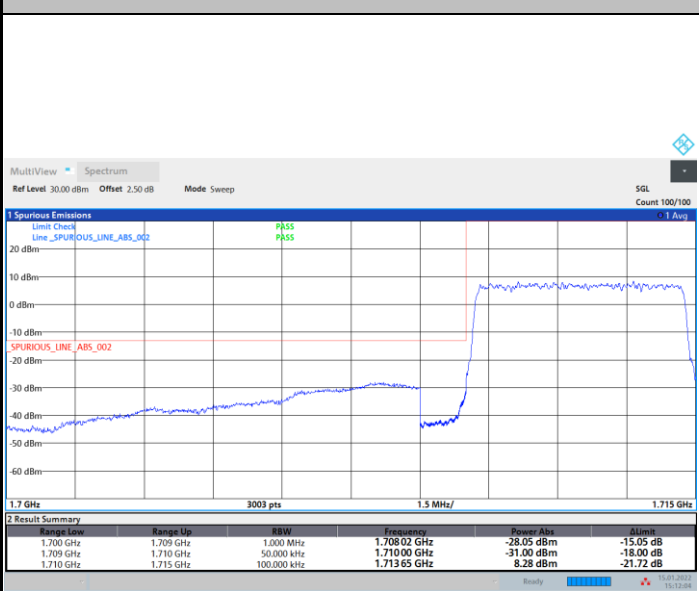
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

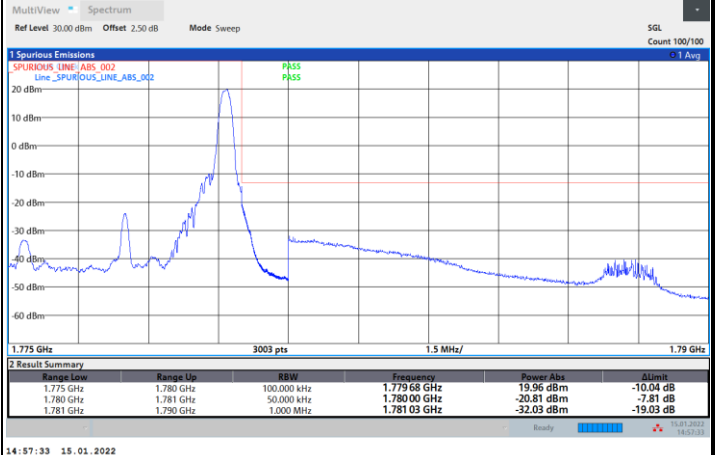
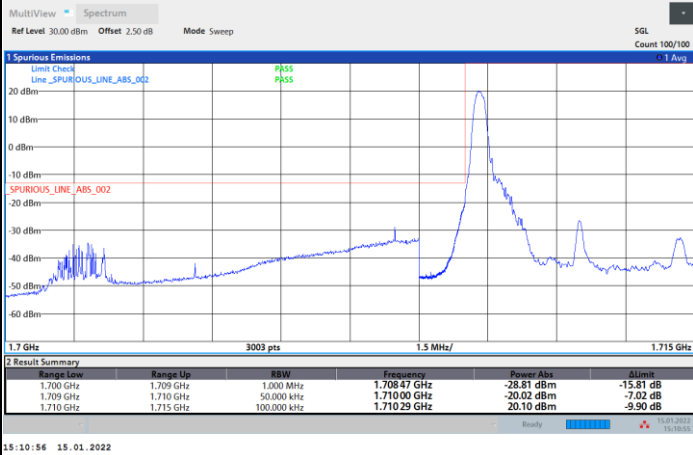




FR1 n66 / 5MHz / DFT-S OFDM / QPSK

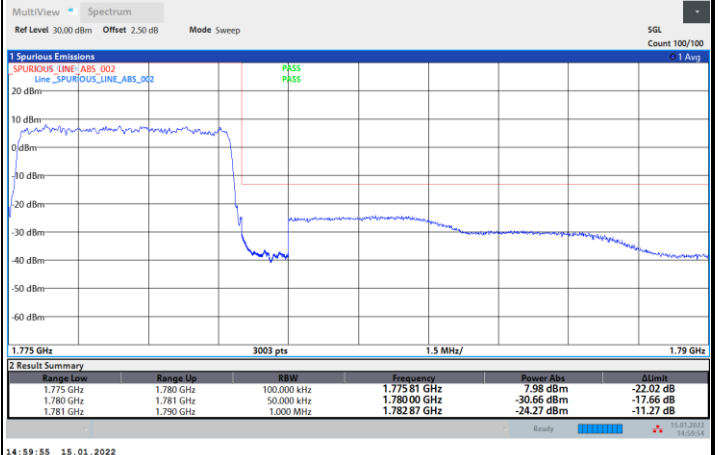
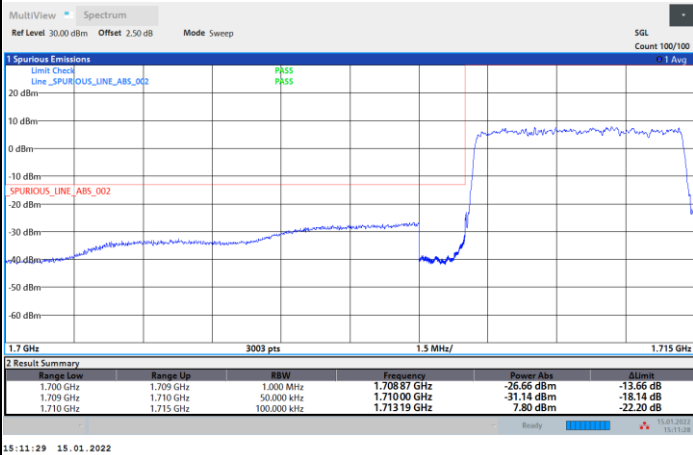
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

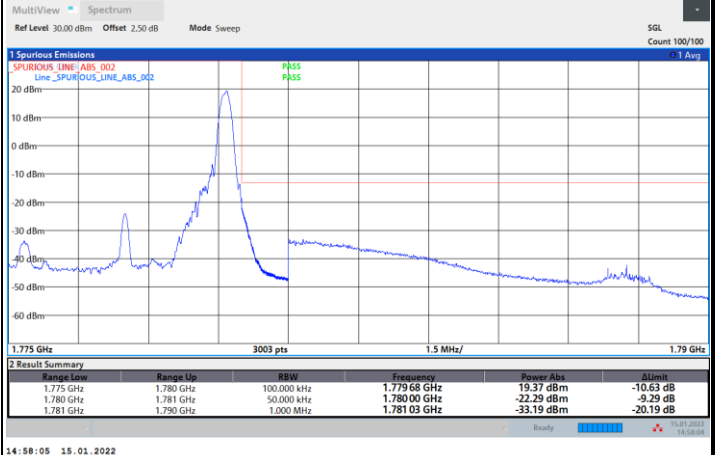
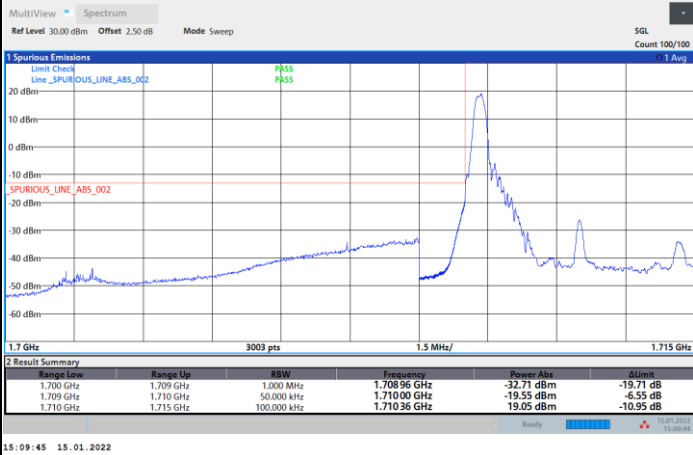




FR1 n66 / 5MHz / DFT-S OFDM / 16QAM

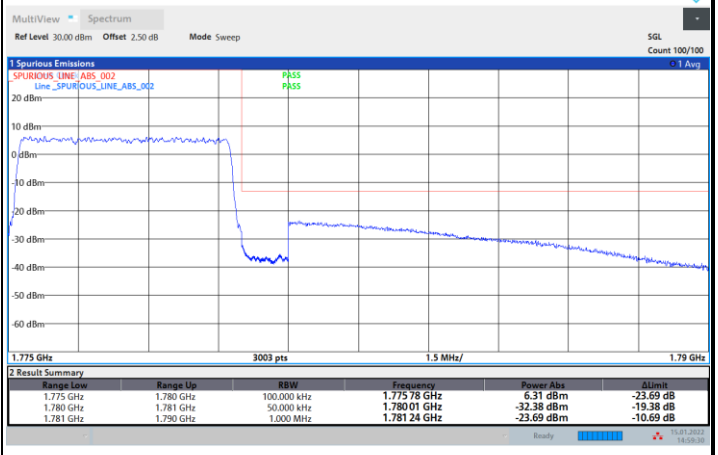
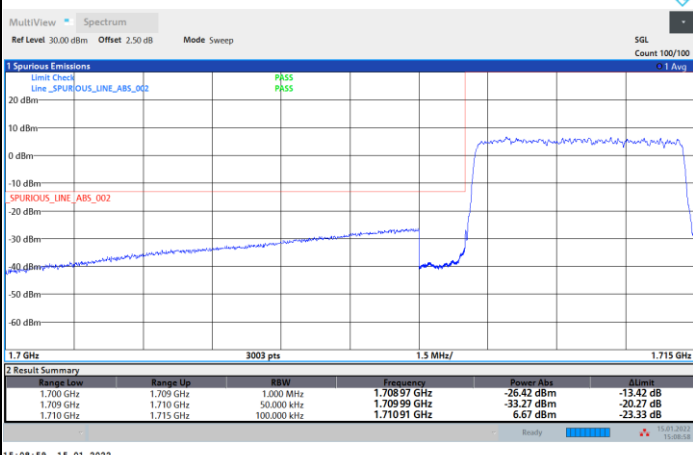
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

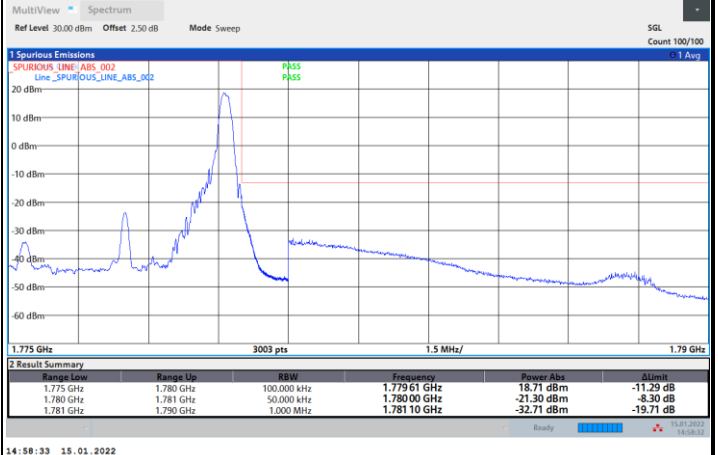
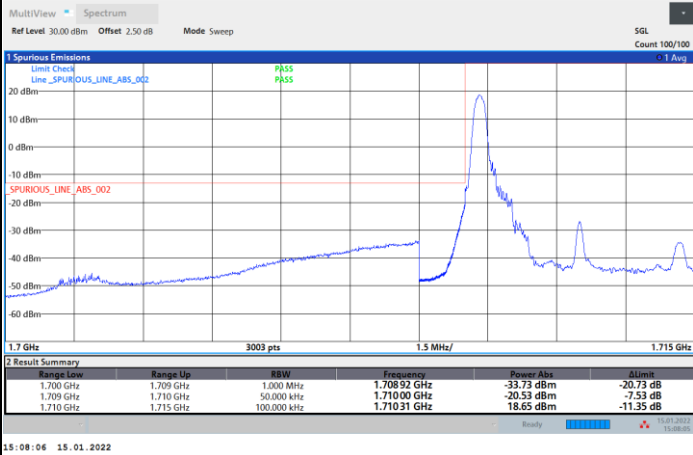




FR1 n66 / 5MHz / DFT-S OFDM / 64QAM

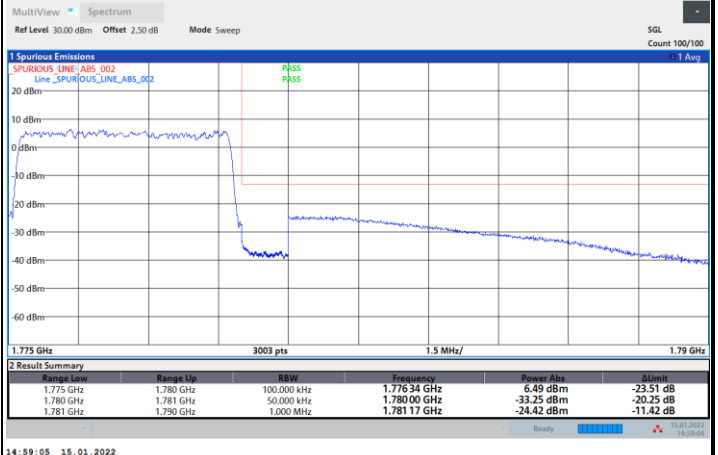
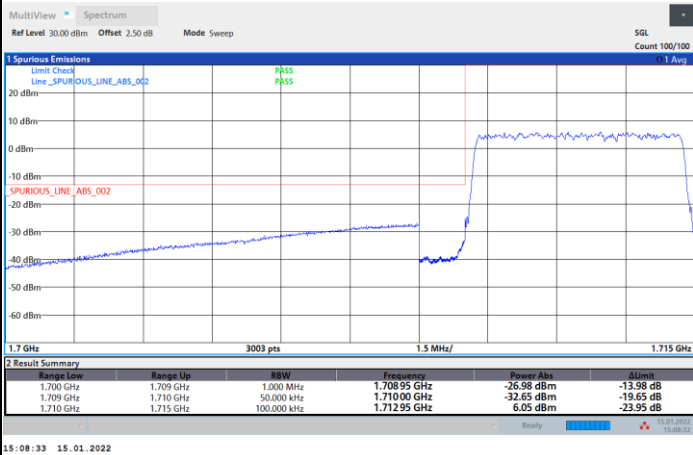
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

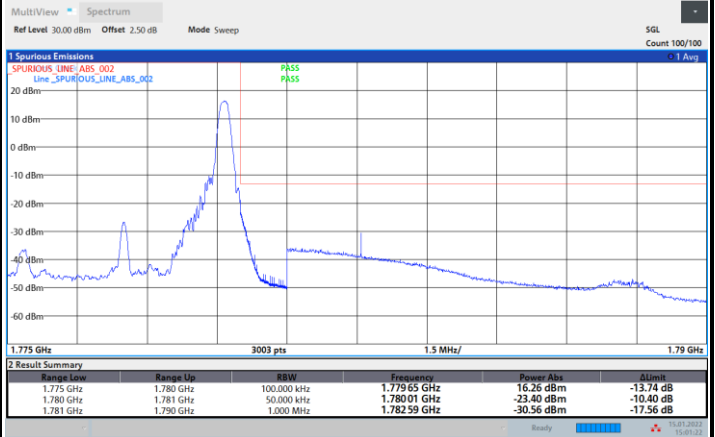
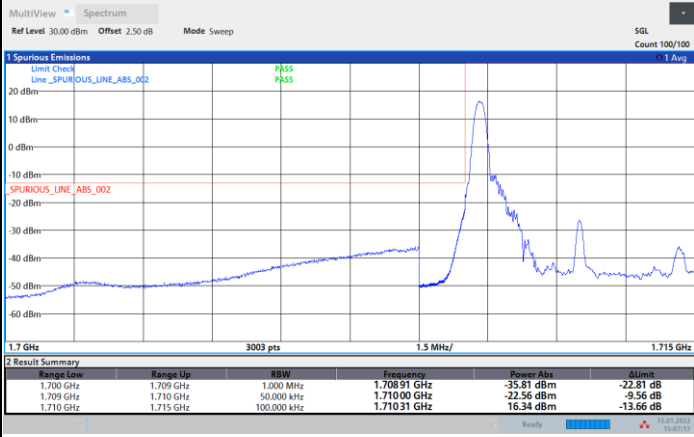




FR1 n66 / 5MHz / DFT-S OFDM / 256QAM

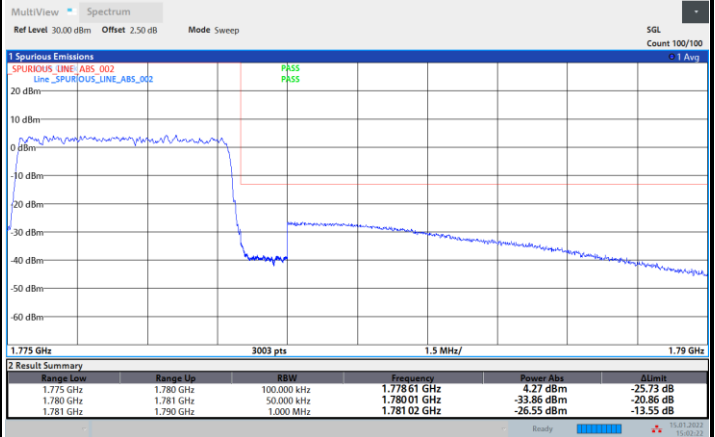
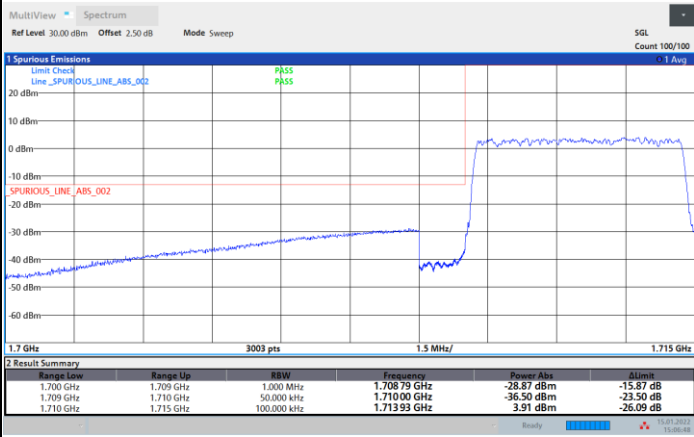
Lowest Band Edge / 1RB0

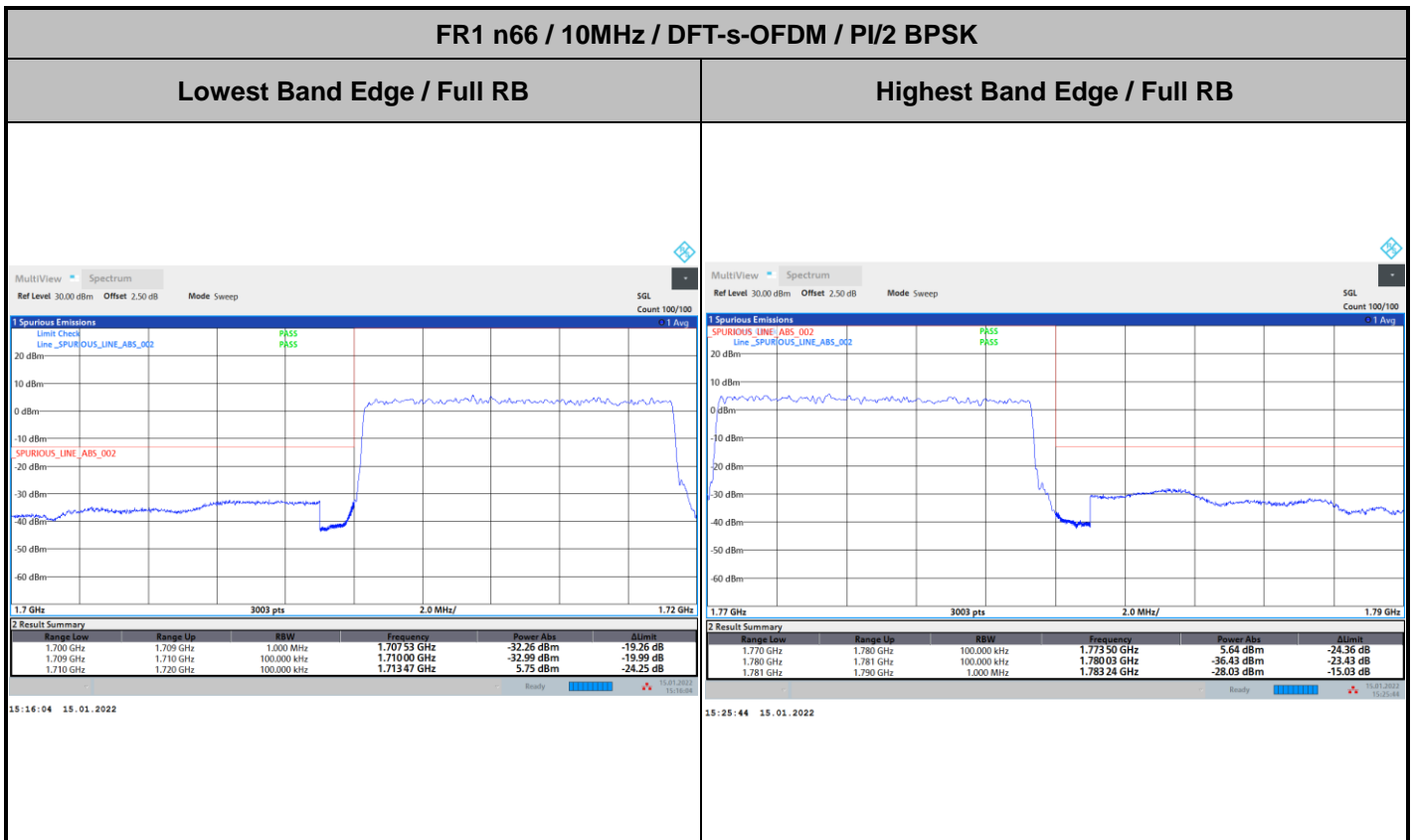
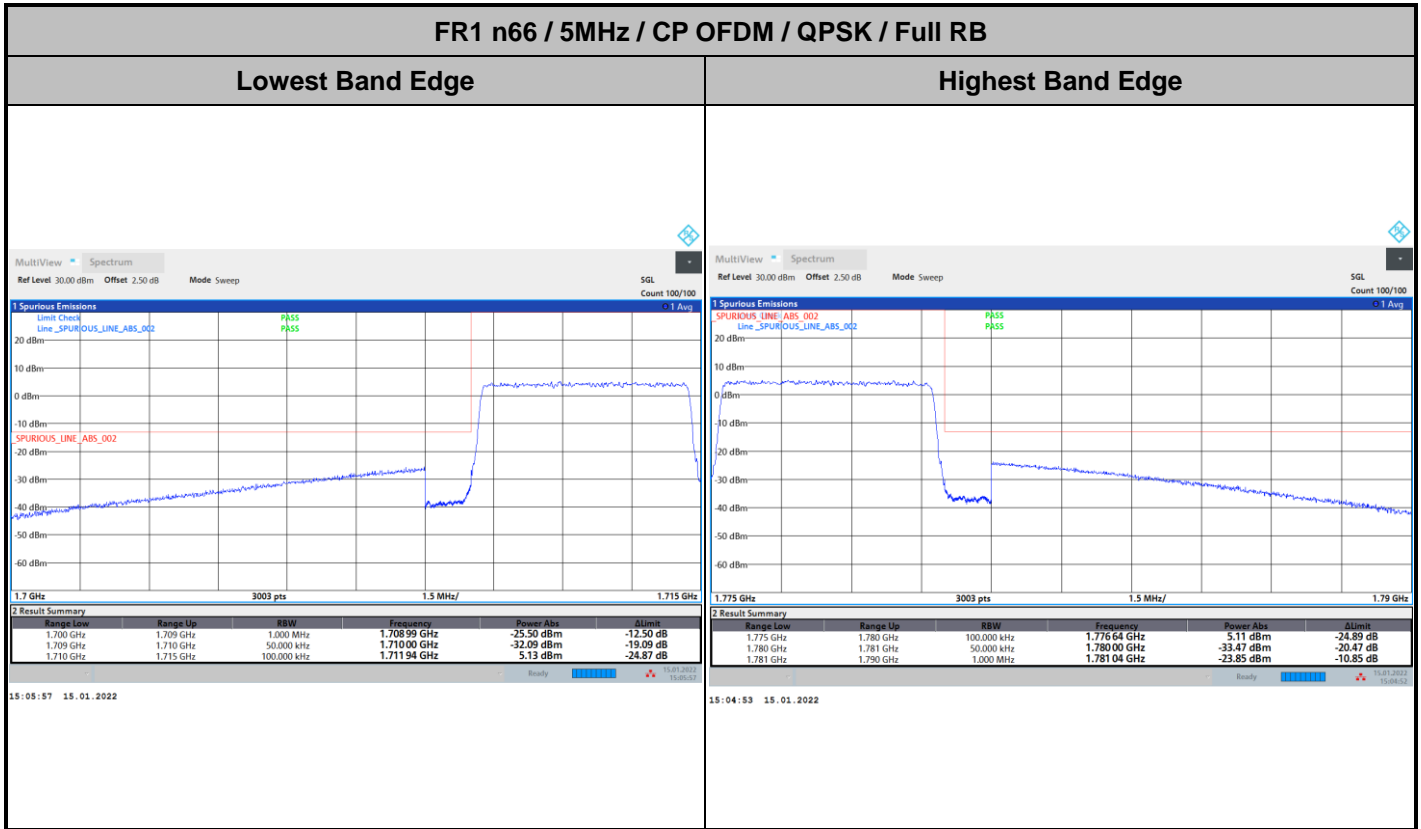
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB



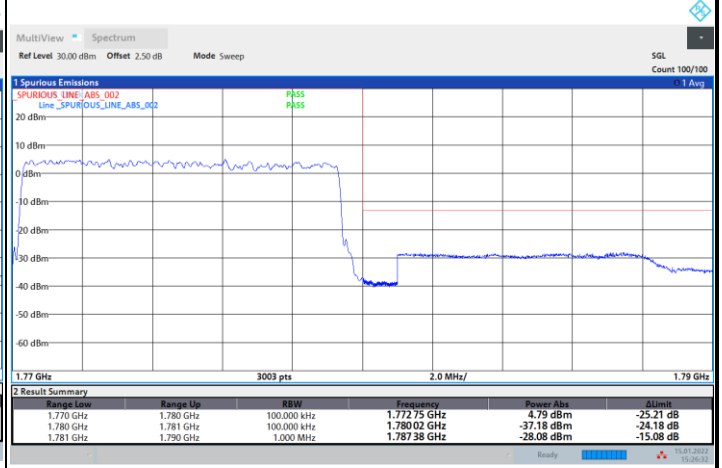
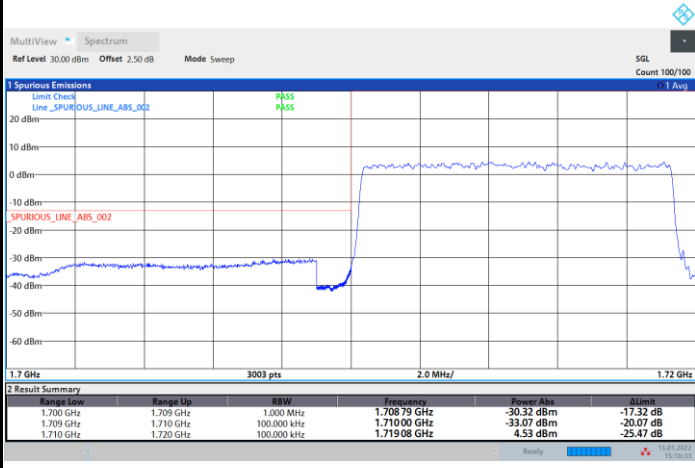




FR1 n66 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



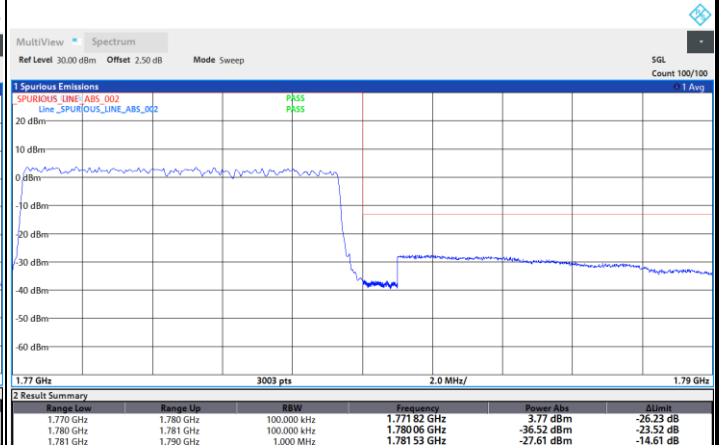
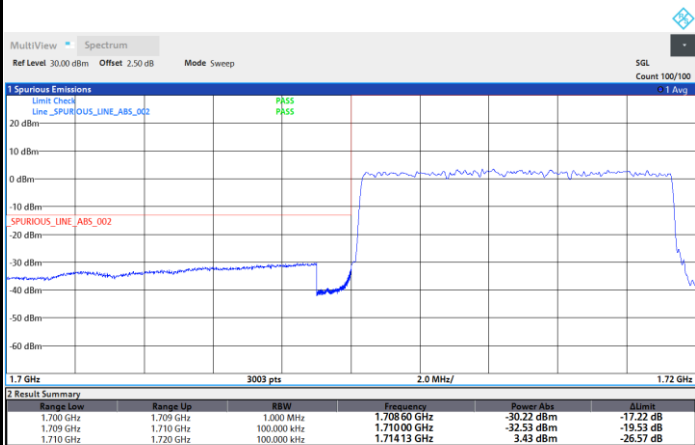
15:16:33 15.01.2022

15:26:33 15.01.2022

FR1 n66 / 10MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



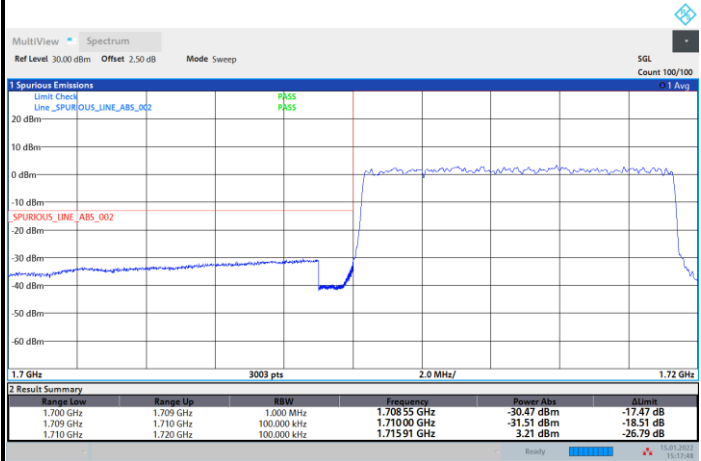
15:17:04 15.01.2022

15:26:57 15.01.2022



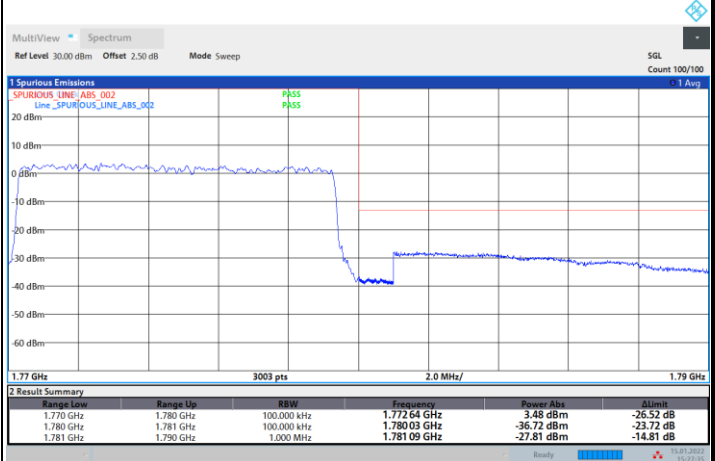
FR1 n66 / 10MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / Full RB



15:17:48 15.01.2022

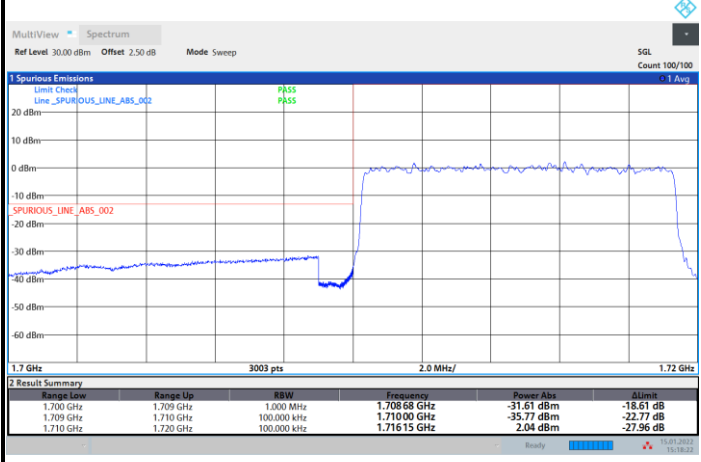
Highest Band Edge / Full RB



15:27:36 15.01.2022

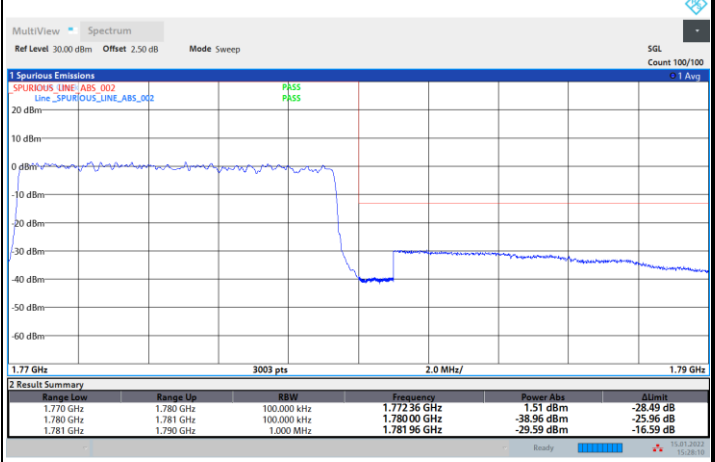
FR1 n66 / 10MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / Full RB

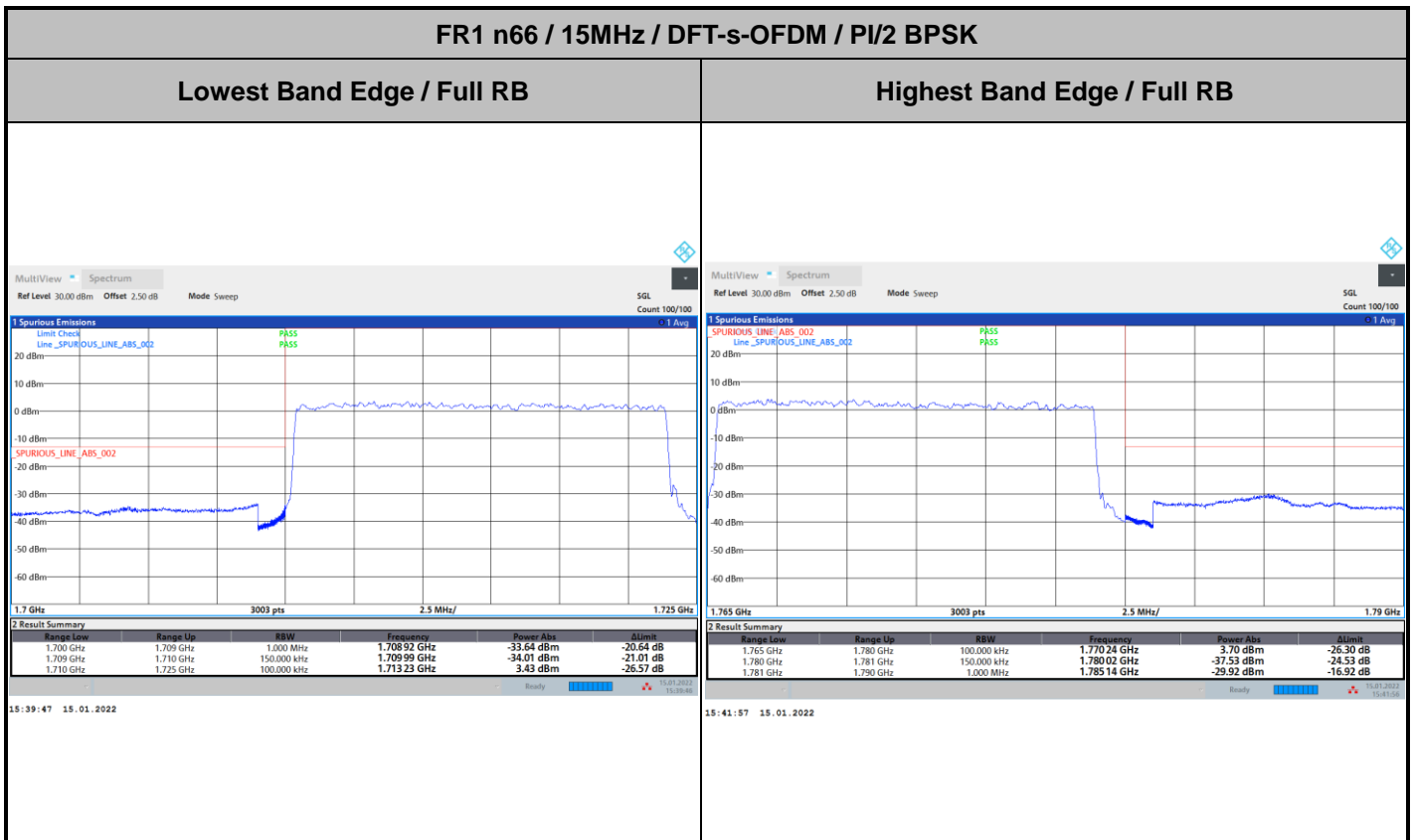
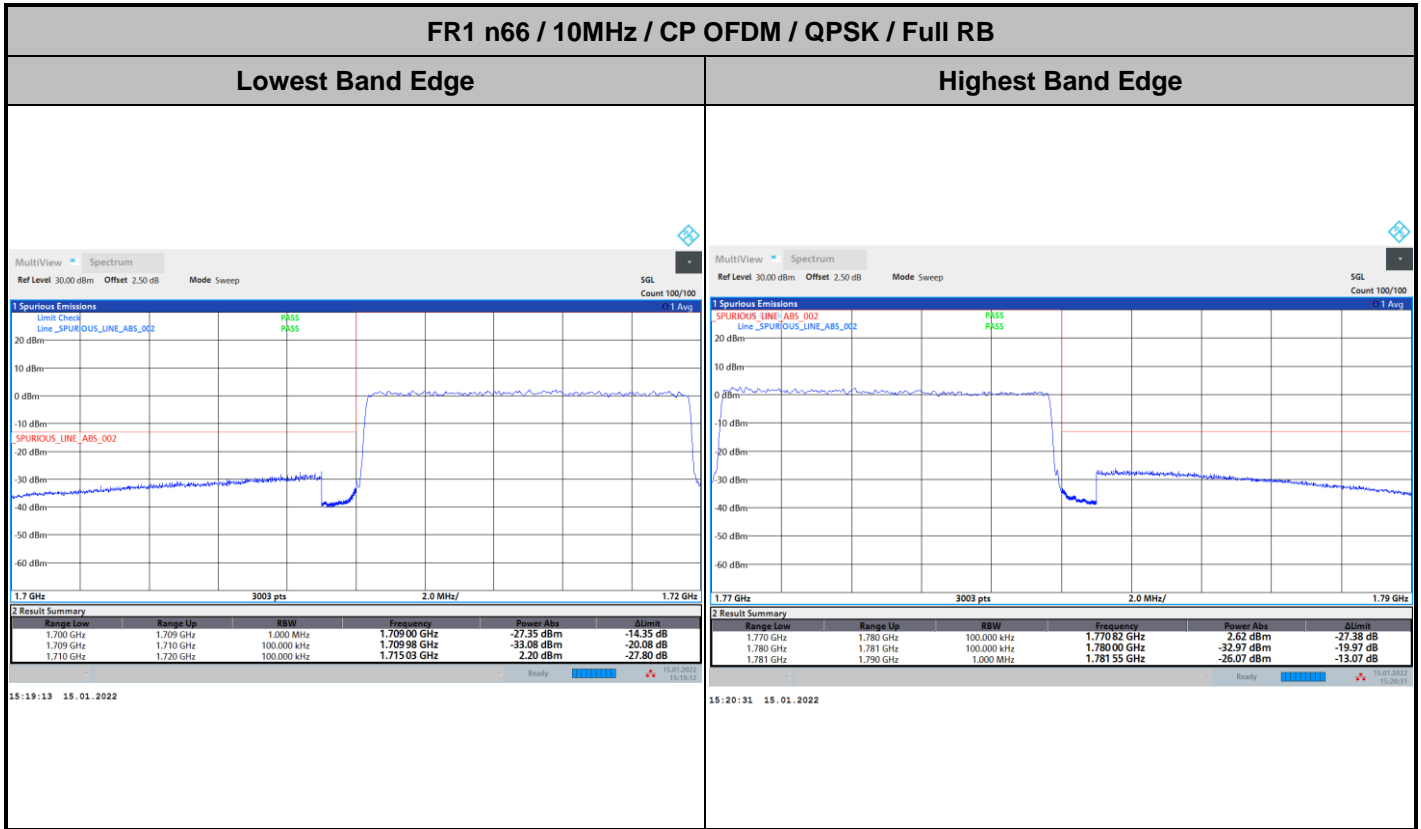


15:18:22 15.01.2022

Highest Band Edge / Full RB



15:28:11 15.01.2022

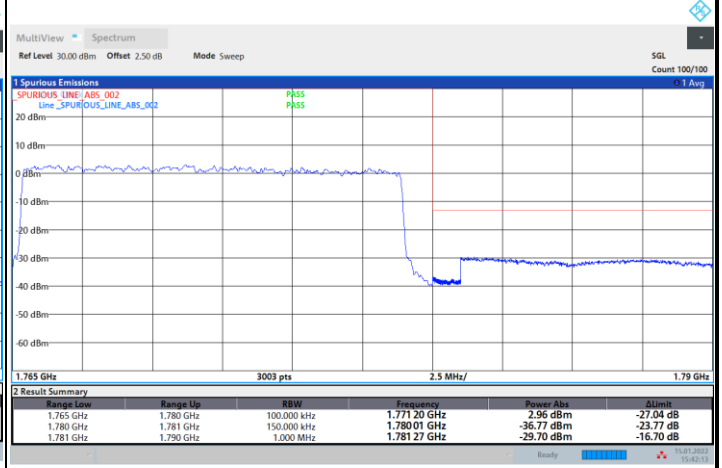
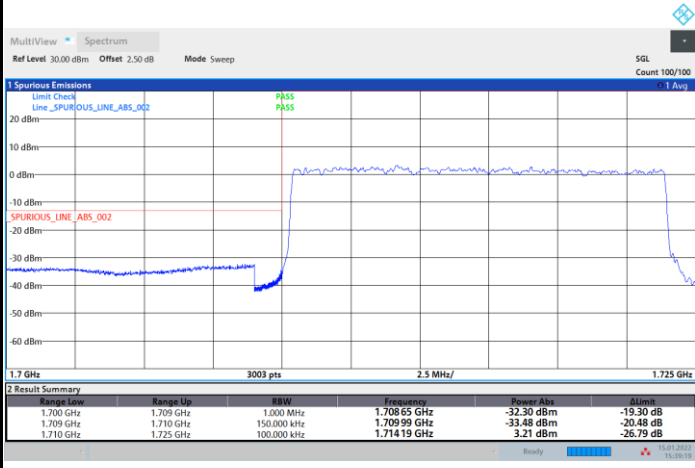




FR1 n66 / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



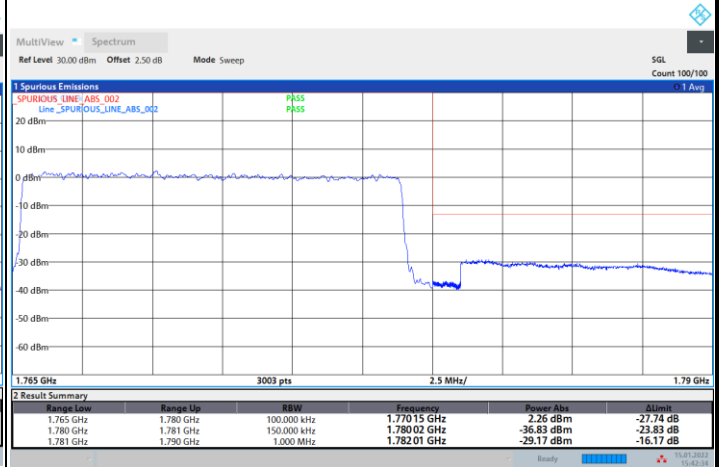
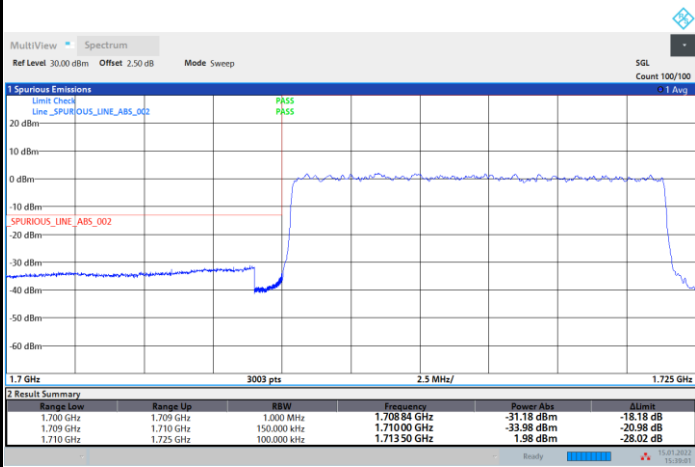
15:39:20 15.01.2022

15:42:13 15.01.2022

FR1 n66 / 15MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



15:39:02 15.01.2022

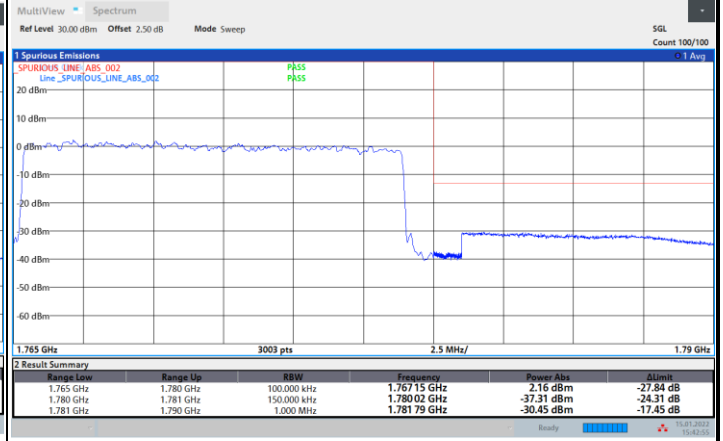
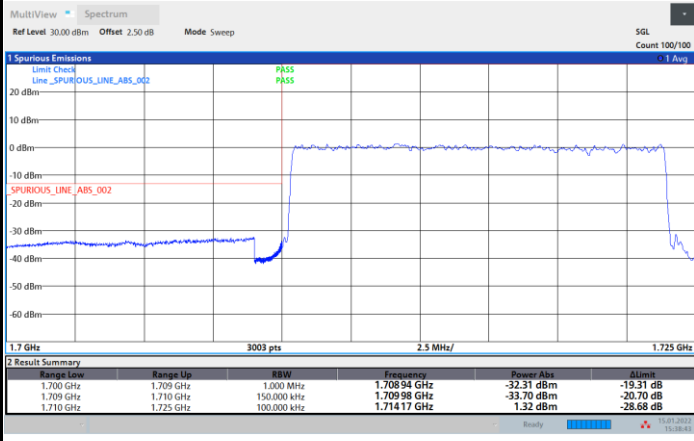
15:42:34 15.01.2022



FR1 n66 / 15MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / Full RB

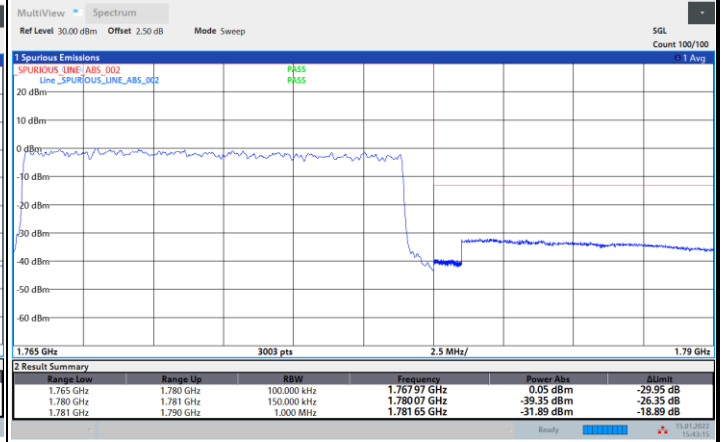
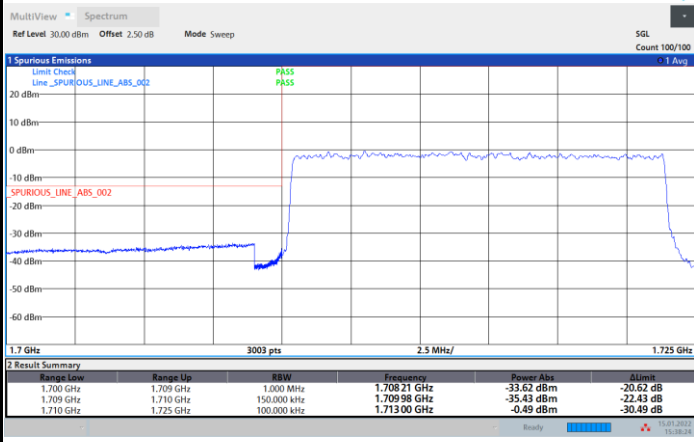
Highest Band Edge / Full RB

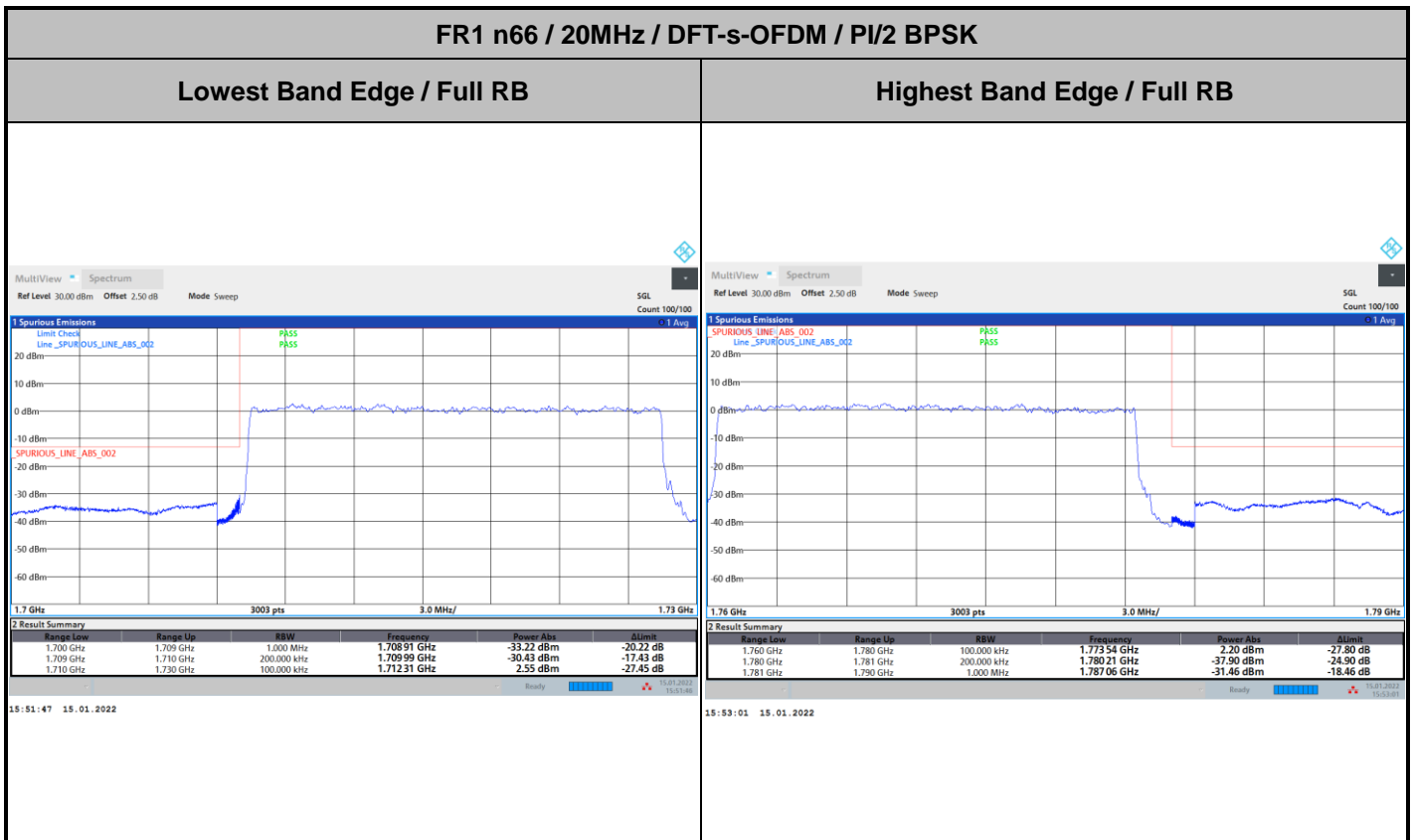
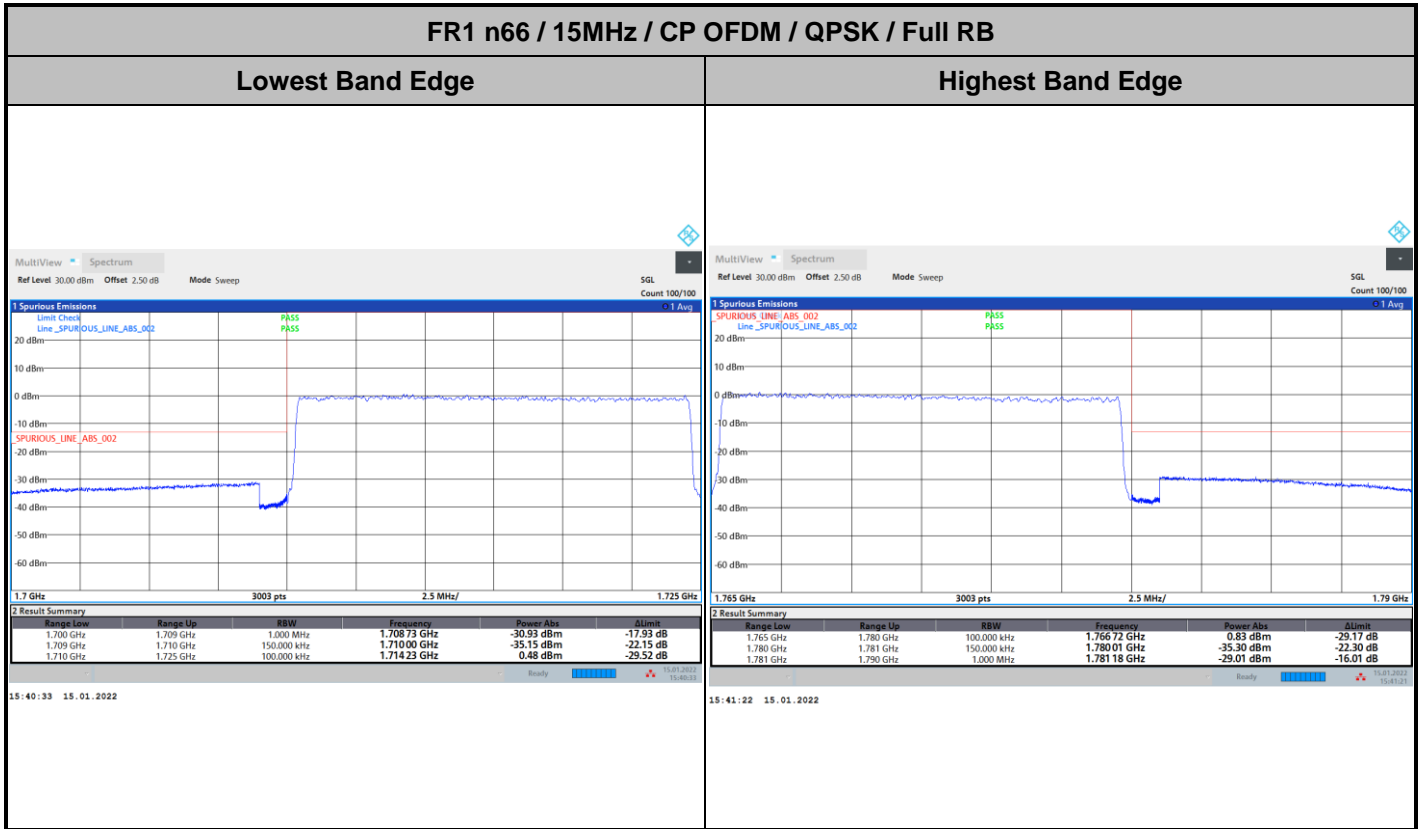


FR1 n66 / 15MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



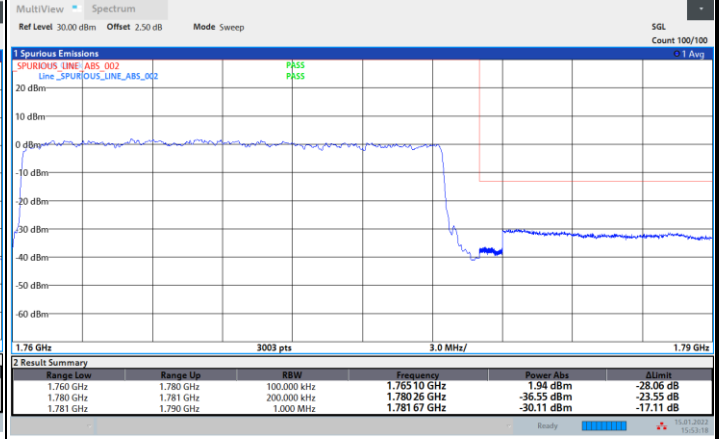
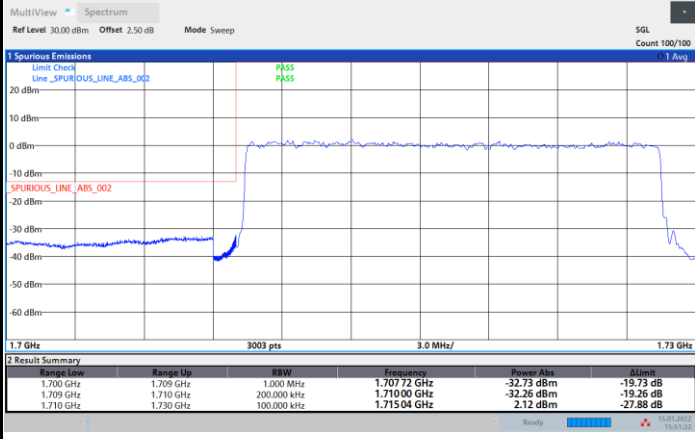




FR1 n66 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB

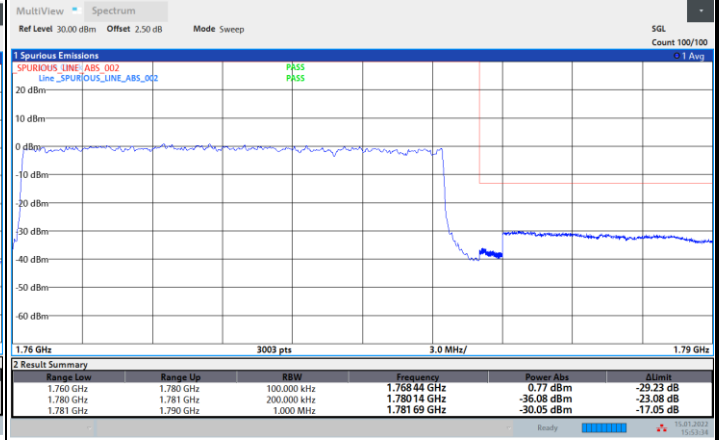
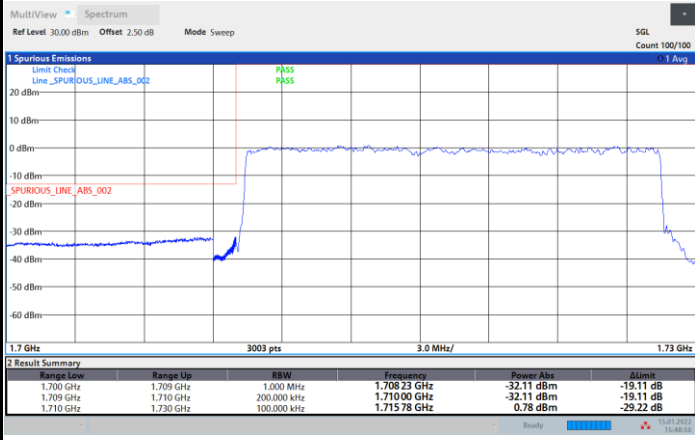
Highest Band Edge / Full RB



FR1 n66 / 20MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

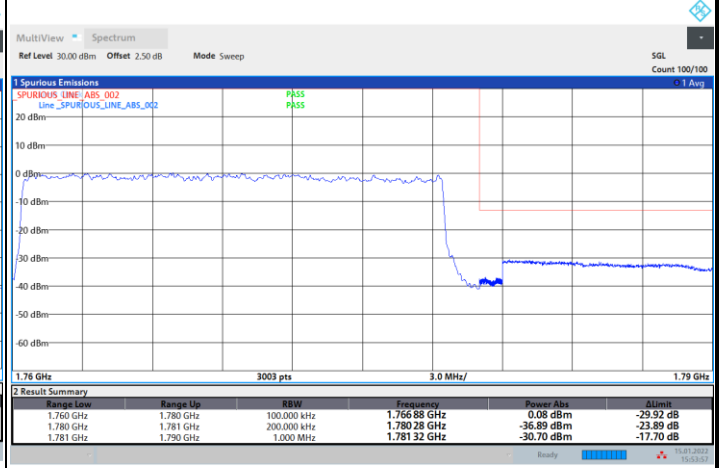
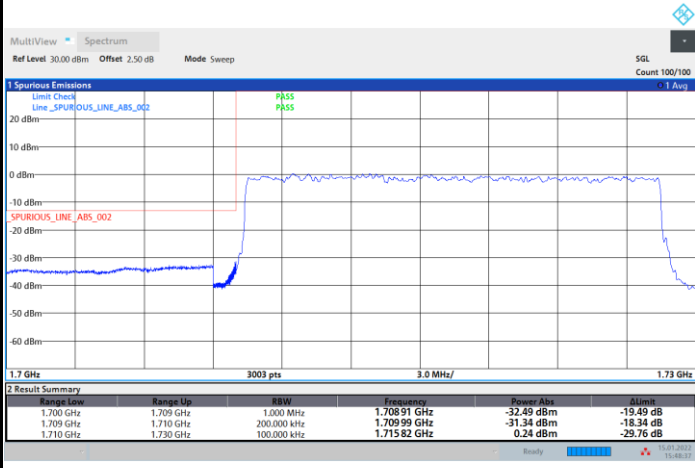




FR1 n66 / 20MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



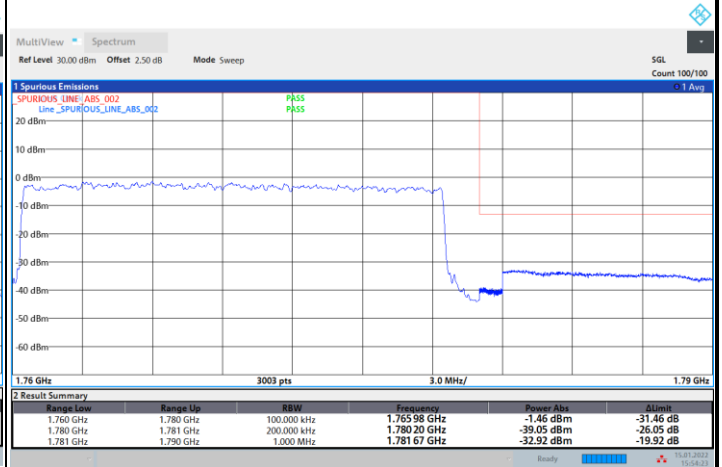
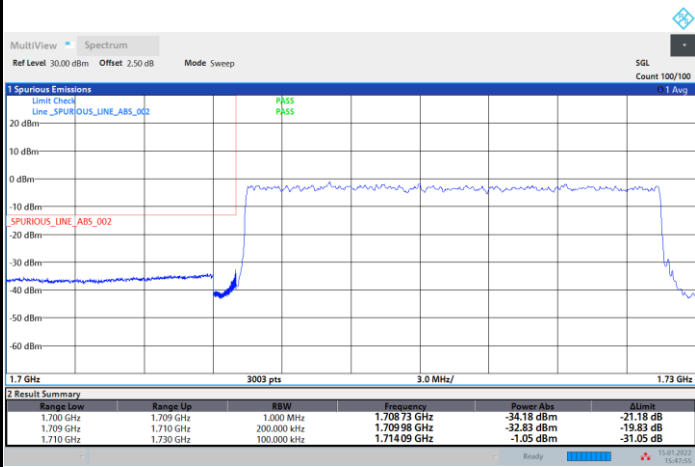
15:48:38 15.01.2022

15:53:58 15.01.2022

FR1 n66 / 20MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



15:47:56 15.01.2022

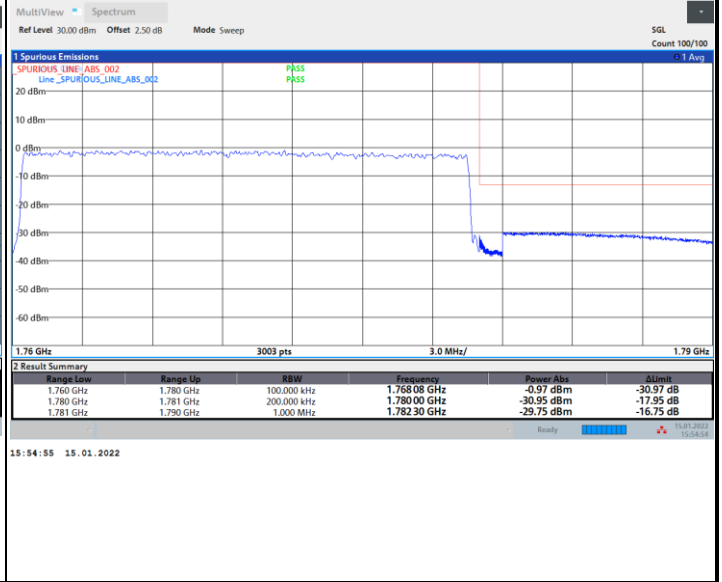
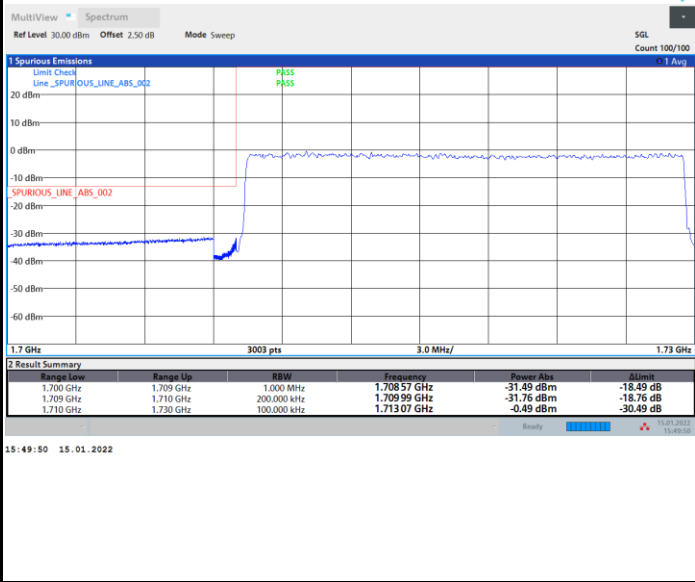
15:54:23 15.01.2022



FR1 n66 / 20MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

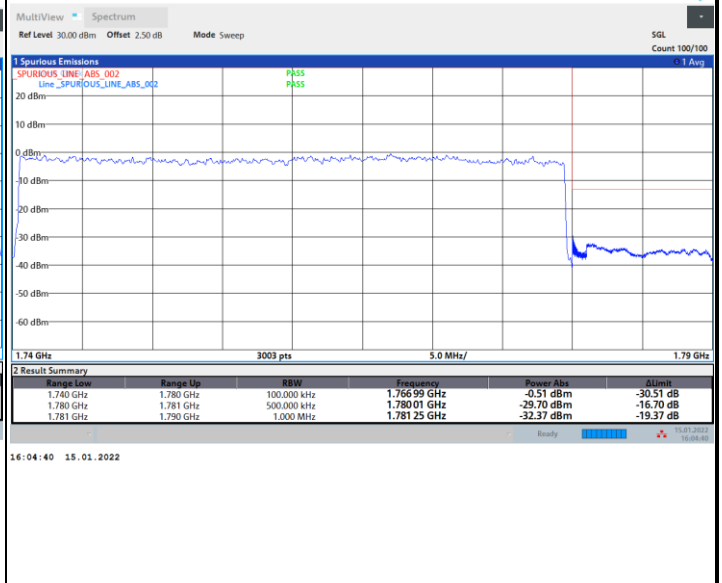
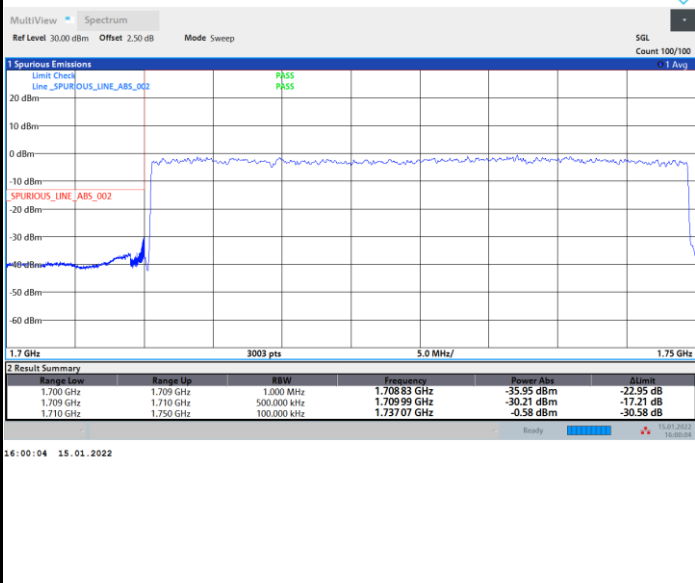
Highest Band Edge



FR1 n66 / 40MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB





FR1 n66 / 40MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



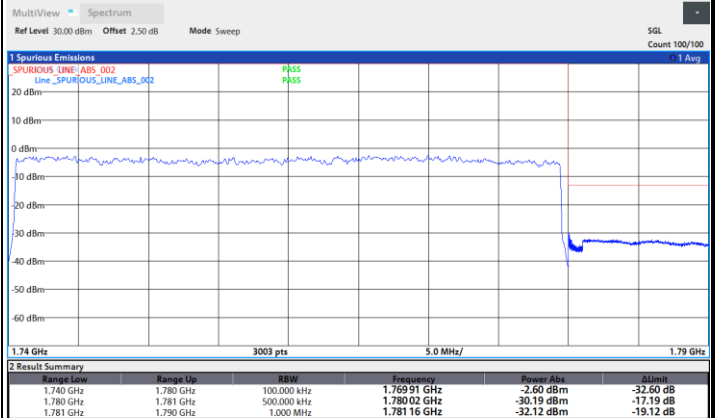
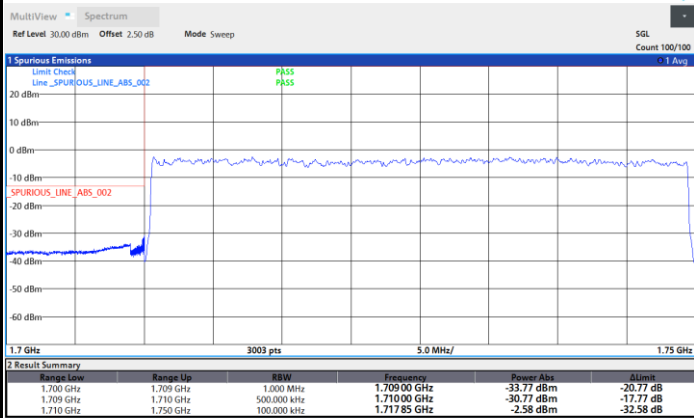
15:59:41 15.01.2022

16:05:08 15.01.2022

FR1 n66 / 40MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



15:59:23 15.01.2022

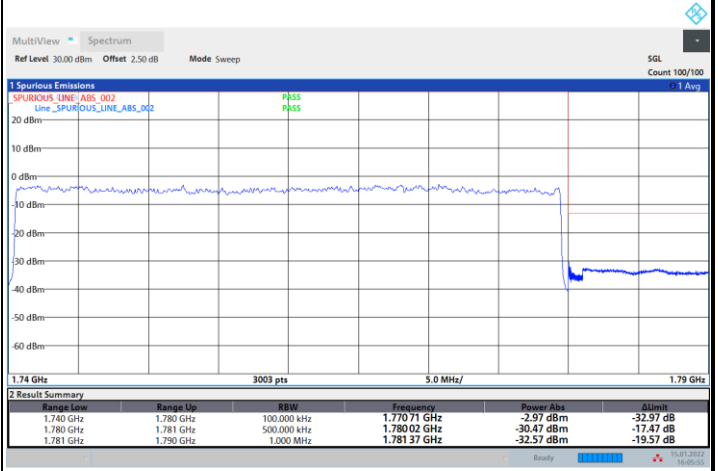
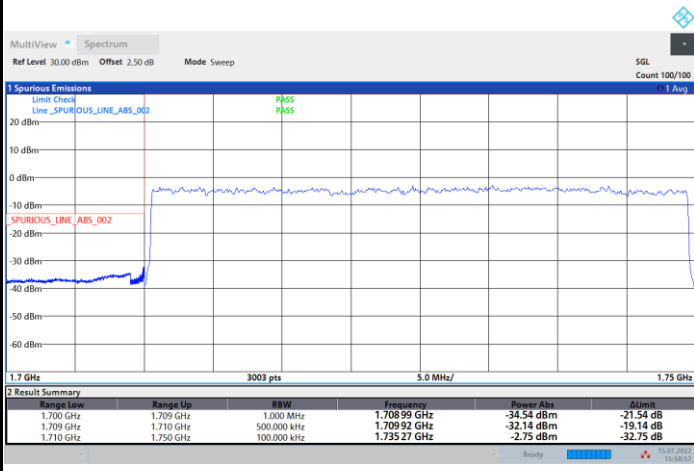
16:05:35 15.01.2022



FR1 n66 / 40MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



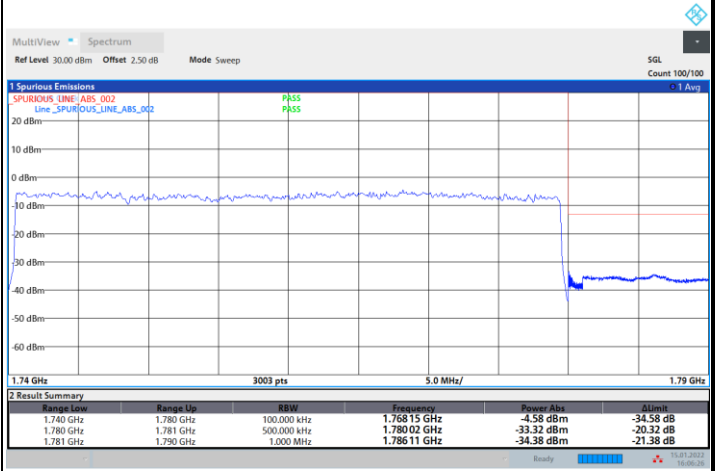
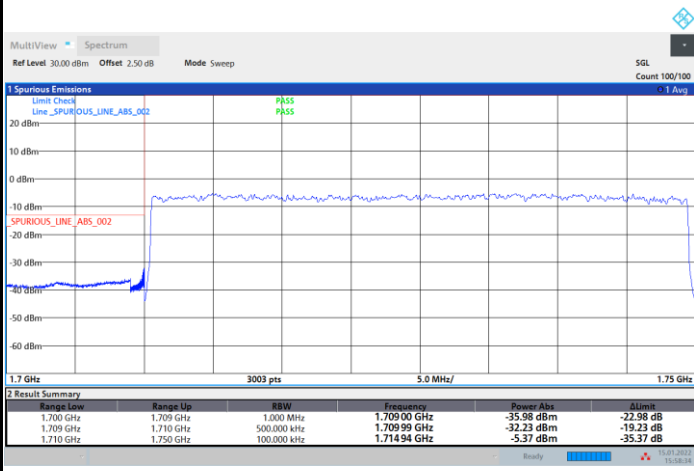
15:58:58 15.01.2022

16:05:55 15.01.2022

FR1 n66 / 40MHz / DFT-s-OFDM / 256QAM

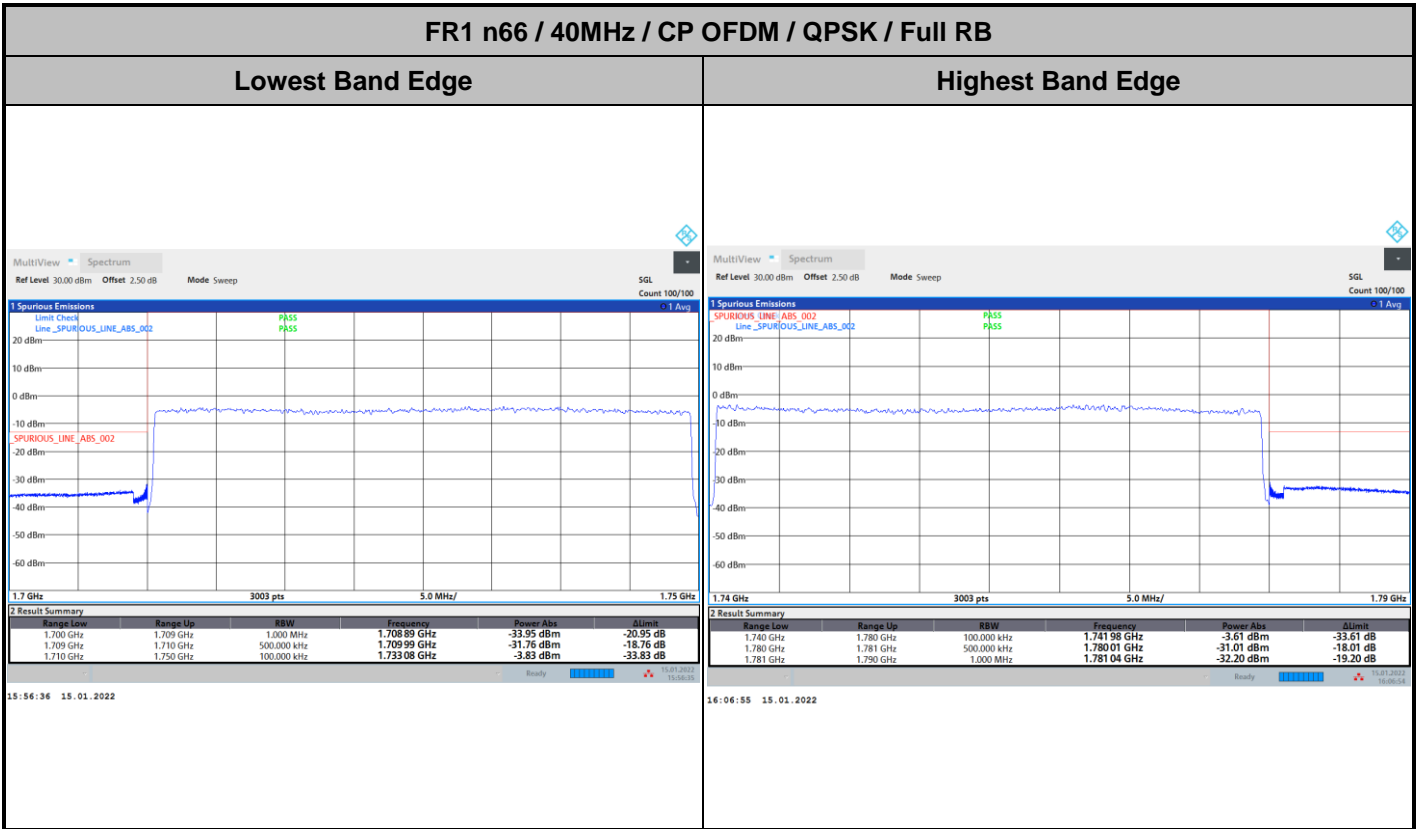
Lowest Band Edge / Full RB

Highest Band Edge / Full RB



15:58:34 15.01.2022

16:06:26 15.01.2022



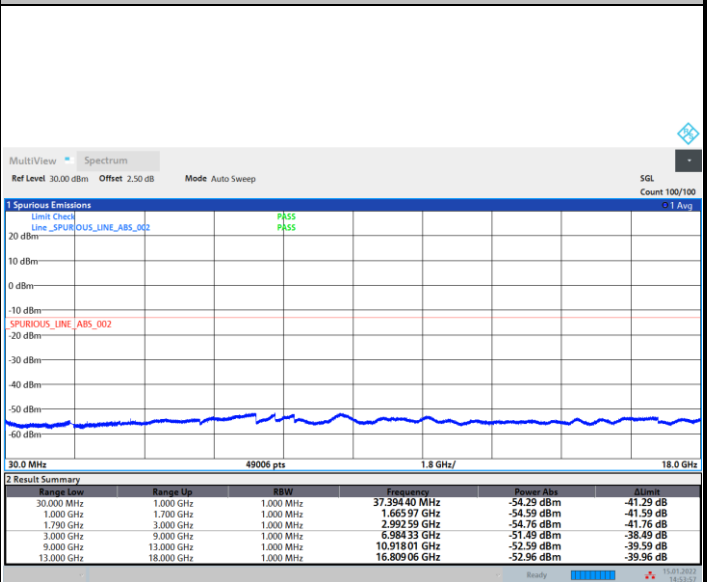
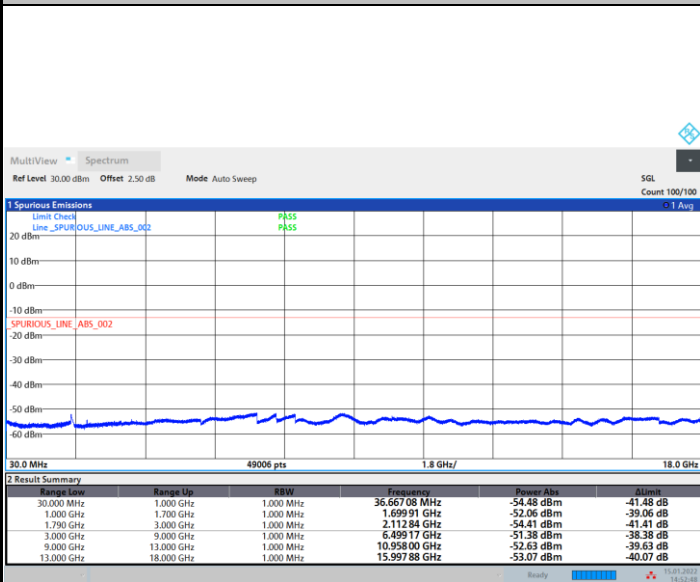


Conducted Spurious Emission

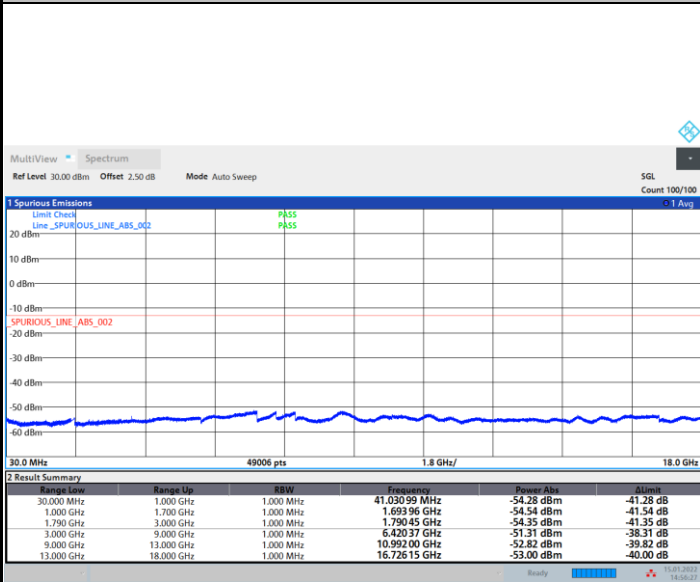
FR1 n66 / 5MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel



Highest Channel





Frequency Stability

Test Conditions		FR1 n66 (PI/2 BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0063	PASS
40	Normal Voltage	0.0076	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0067	
20	Maximum Voltage	0.0070	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0080	

Note:

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



Appendix B. Test Results of Radiated Test

5G NR n5 (Ant. 0)

5G NR n5 / 20MHz / PI/2 BPSK									
Channel	Frequency (MHz)	ERP (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	1650	-54.82	-13	-41.82	-70.53	-58.29	3.88	9.50	H
	2475	-44.06	-13	-31.06	-63.48	-47.66	4.80	10.55	H
	3301	-53.25	-13	-40.25	-75.52	-57.75	5.56	12.20	H
	4126	-51.53	-13	-38.53	-76.29	-55.85	6.28	12.75	H
									H
									H
	1650	-54.79	-13	-41.79	-70.36	-58.26	3.88	9.50	V
	2475	-42.18	-13	-29.18	-61.58	-45.78	4.80	10.55	V
	3301	-53.65	-13	-40.65	-75.77	-58.15	5.56	12.20	V
	4126	-51.68	-13	-38.68	-76.19	-56	6.28	12.75	V
									V
									V
Middle	1655	-52.90	-13	-39.90	-68.17	-56.39	3.89	9.53	H
	2483	-33.09	-13	-20.09	-52.51	-36.69	4.81	10.57	H
	3311	-50.06	-13	-37.06	-72.28	-54.59	5.57	12.24	H
	4138	-36.14	-13	-23.14	-60.86	-40.48	6.29	12.78	H
									H
									H
	1655	-54.39	-13	-41.39	-69.98	-57.88	3.89	9.53	V
	2483	-38.06	-13	-25.06	-57.41	-41.66	4.81	10.57	V
	3311	-53.59	-13	-40.59	-75.69	-58.12	5.57	12.24	V
	4138	-40.20	-13	-27.20	-64.79	-44.54	6.29	12.78	V
									V
									V



Highest	1660	-54.51	-13	-41.51	-70.26	-58.02	3.90	9.56	H
	2490	-44.10	-13	-31.10	-63.49	-47.71	4.82	10.58	H
	3321	-52.92	-13	-39.92	-75.17	-57.48	5.58	12.28	H
	4151	-50.53	-13	-37.53	-75.4	-54.88	6.30	12.80	H
									H
									H
	1660	-53.18	-13	-40.18	-68.76	-56.69	3.90	9.56	V
	2490	-42.96	-13	-29.96	-62.35	-46.57	4.82	10.58	V
	3321	-53.28	-13	-40.28	-75.45	-57.84	5.58	12.28	V
	4151	-51.51	-13	-38.51	-76.16	-55.86	6.30	12.80	V
									V
									V

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



ENDC 2A-n5A (Ant. 2 + Ant. 0)

ENDC 2A-n5A / 10M+20MHz / PI/2 BPSK									
Channel	Frequency (MHz)	ERP (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	1672	-52.29	-13	-39.29	-67.95	-55.86	3.91	9.63	H
	2509	-35.35	-13	-22.35	-54.71	-39.02	4.84	10.65	H
	3345	-51.01	-13	-38.01	-73.11	-55.64	5.60	12.38	H
	4182	-44.93	-13	-31.93	-69.83	-49.26	6.32	12.80	H
									H
									H
									H
	1672	-52.28	-13	-39.28	-67.87	-55.85	3.91	9.63	V
	2509	-33.92	-13	-20.92	-53.26	-37.59	4.84	10.65	V
	3345	-53.32	-13	-40.32	-75.35	-57.95	5.60	12.38	V
	4182	-45.81	-13	-32.80	-70.55	-50.14	6.32	12.80	V
									V
									V
									V

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



ENDC 48A-n5A (Ant. 5 + Ant. 0)

ENDC 48A-n5A / 10M+20MHz / PI/2 BPSK									
Channel	Frequency (MHz)	ERP (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	1655	-48.91	-13	-35.91	-74.45	-52.4	3.89	9.53	H
	2483	-46.27	-13	-33.27	-75.53	-49.87	4.81	10.57	H
	3311	-43.31	-13	-30.31	-75.39	-47.84	5.57	12.24	H
									H
									H
									H
									H
	1655	-48.95	-13	-35.95	-74.39	-52.44	3.89	9.53	V
	2483	-46.11	-13	-33.11	-75.37	-49.71	4.81	10.57	V
	3311	-43.68	-13	-30.68	-75.68	-48.21	5.57	12.24	V
									V
									V
									V
									V

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



5G NR n2 (Ant. 4)

5G NR n2 / 20MHz / 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	3702	-52.45	-13	-39.45	-75.84	-58.82	5.93	12.30	H
	5553	-47.77	-13	-34.77	-77.4	-53.33	7.74	13.31	H
	7405	-40.96	-13	-27.96	-74.94	-43.44	8.72	11.20	H
									H
									H
									H
	3702	-52.63	-13	-39.63	-75.71	-59	5.93	12.30	V
	5553	-48.23	-13	-35.23	-77.35	-53.79	7.74	13.31	V
	7405	-41.11	-13	-28.11	-76.19	-43.59	8.72	11.20	V
									V
									V
									V
Middle	3742	-52.62	-13	-39.62	-76.62	-58.96	5.96	12.30	H
	5613	-48.48	-13	-35.48	-77.73	-54.11	7.79	13.43	H
	7485	-41.00	-13	-28.00	-76.86	-43.45	8.75	11.20	H
									H
									H
									H
	3742	-52.76	-13	-39.76	-76.73	-59.1	5.96	12.30	V
	5613	-48.55	-13	-35.55	-77.79	-54.18	7.79	13.43	V
	7485	-40.77	-13	-27.77	-76.9	-43.22	8.75	11.20	V
									V
									V
									V



Highest	3782	-52.30	-13	-39.30	-76.52	-58.6	6.00	12.30	H
	5673	-48.27	-13	-35.27	-77.78	-53.93	7.84	13.50	H
	7565	-39.99	-13	-26.99	-76.3	-42.66	8.79	11.46	H
									H
									H
									H
									H
	3782	-52.38	-13	-39.38	-76.59	-58.68	6.00	12.30	V
	5673	-48.25	-13	-35.25	-77.76	-53.91	7.84	13.50	V
	7565	-40.13	-13	-27.13	-76.73	-42.8	8.79	11.46	V
									V
									V
									V
									V

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



ENDC 5A-n2A (Ant. 0 + Ant. 2)

ENDC 5A-n2A / 10M+20MHz / 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	3702	-52.23	-13	-39.23	-76.06	-58.6	5.93	12.30	H
	5553	-48.20	-13	-35.20	-77.51	-53.76	7.74	13.31	H
	7405	-40.91	-13	-27.91	-76.46	-43.39	8.72	11.20	H
									H
									H
									H
	3702	-52.31	-13	-39.31	-76.1	-58.68	5.93	12.30	V
	5553	-48.07	-13	-35.07	-77.43	-53.63	7.74	13.31	V
	7405	-40.63	-13	-27.63	-76.45	-43.11	8.72	11.20	V
									V
									V
									V
Middle	3742	-52.76	-13	-39.76	-76.8	-59.1	5.96	12.30	H
	5613	-48.07	-13	-35.07	-77.34	-53.7	7.79	13.43	H
	7485	-40.76	-13	-27.76	-76.53	-43.21	8.75	11.20	H
									H
									H
									H
	3742	-52.76	-13	-39.76	-76.72	-59.1	5.96	12.30	V
	5613	-47.96	-13	-34.96	-77.29	-53.59	7.79	13.43	V
	7485	-39.90	-13	-26.90	-76.03	-42.35	8.75	11.20	V
									V
									V
									V



Highest	3782	-52.29	-13	-39.29	-76.51	-58.59	6.00	12.30	H
	5673	-48.50	-13	-35.50	-78	-54.16	7.84	13.50	H
	7565	-40.33	-13	-27.33	-76.64	-43	8.79	11.46	H
									H
									H
									H
									H
	3782	-52.47	-13	-39.47	-76.76	-58.77	6.00	12.30	V
	5673	-47.95	-13	-34.95	-77.48	-53.61	7.84	13.50	V
	7565	-39.81	-13	-26.81	-76.4	-42.48	8.79	11.46	V
									V
									V
									V
									V

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



ENDC 66A-n2A (Ant. 4 + Ant. 2)

ENDC 66A-n2A / 10M+20MHz / 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	3742	-52.35	-13	-39.35	-76.36	-58.69	5.96	12.30	H
	5613	-47.78	-13	-34.78	-77.06	-53.41	7.79	13.43	H
	7485	-40.32	-13	-27.32	-76.13	-42.77	8.75	11.20	H
									H
									H
									H
									H
	3742	-52.50	-13	-39.50	-76.55	-58.84	5.96	12.30	V
	5613	-47.95	-13	-34.95	-77.22	-53.58	7.79	13.43	V
	7485	-39.93	-13	-26.93	-76.05	-42.38	8.75	11.20	V
									V
									V
									V
									V

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



5G NR n66 (Ant. 4)

5G NR n66 / 20MHz / 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	3422	-52.92	-13	-39.92	-75.75	-59.75	5.67	12.50	H
	5133	-45.97	-13	-32.97	-74.7	-50.89	7.55	12.47	H
	6845	-43.26	-13	-30.26	-76.6	-47.03	8.44	12.21	H
									H
									H
									H
	3422	-52.93	-13	-39.93	-75.78	-59.76	5.67	12.50	V
	5133	-45.88	-13	-32.88	-74.38	-50.80	7.55	12.47	V
	6845	-43.34	-13	-30.34	-76.5	-47.11	8.44	12.21	V
									V
									V
									V
Middle	3472	-53.07	-13	-40.07	-76.34	-59.81	5.71	12.46	H
	5208	-42.43	-13	-29.43	-70.88	-47.80	7.58	12.95	H
	6945	-42.28	-13	-29.28	-76.24	-45.68	8.51	11.91	H
									H
									H
									H
	3472	-52.66	-13	-39.66	-75.91	-59.40	5.71	12.46	V
	5208	-47.10	-13	-34.10	-75.49	-52.47	7.58	12.95	V
	6945	-41.98	-13	-28.98	-76.02	-45.38	8.51	11.91	V
									V
									V
									V



Highest	3522	-52.87	-13	-39.87	-76.39	-59.38	5.76	12.27	H
	5283	-48.52	-13	-35.52	-77.19	-54.24	7.61	13.33	H
	7045	-41.62	-13	-28.62	-76.1	-44.68	8.57	11.63	H
									H
									H
									H
									H
	3522	-52.73	-13	-39.73	-76.2	-59.24	5.76	12.27	V
	5283	-48.56	-13	-35.56	-77.11	-54.28	7.61	13.33	V
	7045	-41.55	-13	-28.55	-76.26	-44.61	8.57	11.63	V
									V
									V
									V
									V

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



ENDC 5A-n66A (Ant. 0 + Ant. 2)

ENDC 5A-n66A / 10M+20MHz / 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	3424	-51.08	-13	-38.08	-73.89	-57.91	5.67	12.50	H
	5136	-48.83	-13	-35.83	-77.45	-53.75	7.55	12.47	H
	6849	-43.28	-13	-30.28	-76.63	-47.04	8.44	12.20	H
									H
									H
									H
	3424	-52.11	-13	-39.11	-74.86	-58.94	5.67	12.50	V
	5136	-49.06	-13	-36.06	-77.5	-53.98	7.55	12.47	V
	6849	-43.19	-13	-30.19	-76.36	-46.95	8.44	12.20	V
									V
									V
									V
Middle	2454	-53.00	-13	-40.00	-76.1	-58.73	4.78	10.51	H
	5181	-48.57	-13	-35.57	-77.01	-53.75	7.57	12.75	H
	6909	-42.41	-13	-29.41	-76.11	-45.91	8.49	11.98	H
									H
									H
									H
	2454	-52.65	-13	-39.65	-75.68	-58.38	4.78	10.51	V
	5181	-48.76	-13	-35.76	-77.11	-53.94	7.57	12.75	V
	6909	-42.71	-13	-29.71	-76.4	-46.21	8.49	11.98	V
									V
									V
									V



Highest	3484	-52.72	-13	-39.72	-76.1	-59.43	5.73	12.43	H
	5226	-48.59	-13	-35.59	-77.04	-54.06	7.58	13.06	H
	6969	-42.79	-13	-29.79	-76.85	-46.16	8.53	11.90	H
									H
									H
									H
									H
	3484	-52.70	-13	-39.70	-76	-59.41	5.73	12.43	V
	5226	-48.77	-13	-35.77	-77.16	-54.24	7.58	13.06	V
	6969	-42.66	-13	-29.66	-76.87	-46.03	8.53	11.90	V
									V
									V
									V
									V

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



ENDC 2A-n66A (Ant. 4 + Ant. 2)

ENDC 2A-n66A / 10M+20MHz / 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	3454	-52.49	-13	-39.49	-75.63	-59.28	5.70	12.49	H
	5181	-48.46	-13	-35.46	-76.97	-53.64	7.57	12.75	H
	6909	-42.38	-13	-29.38	-76.15	-45.88	8.49	11.98	H
									H
									H
									H
									H
	3454	-53.16	-13	-40.16	-76.29	-59.95	5.70	12.49	V
	5181	-48.87	-13	-35.87	-77.34	-54.05	7.57	12.75	V
	6909	-42.50	-13	-29.50	-76.2	-46.00	8.49	11.98	V
									V
									V
									V
									V

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