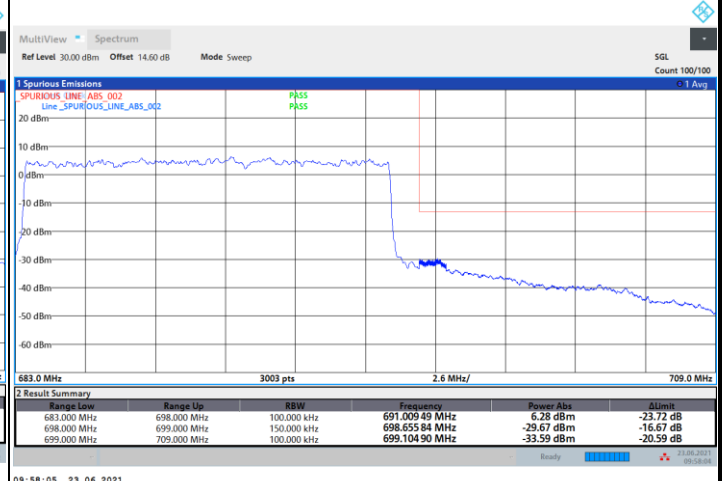
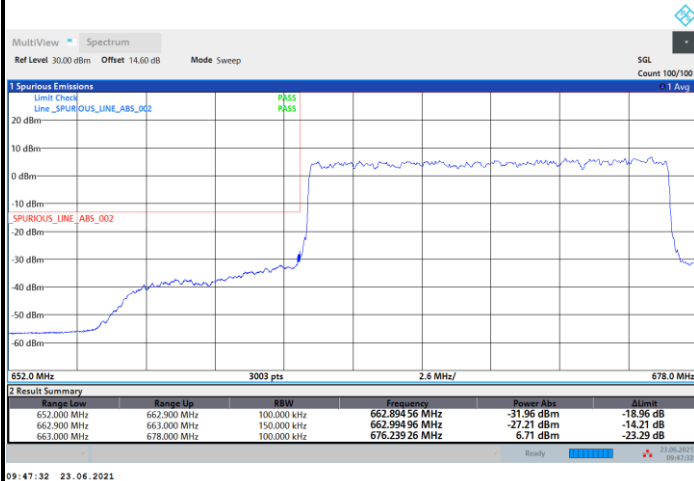




FR1 n71 / 15MHz / DFT-s-OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge

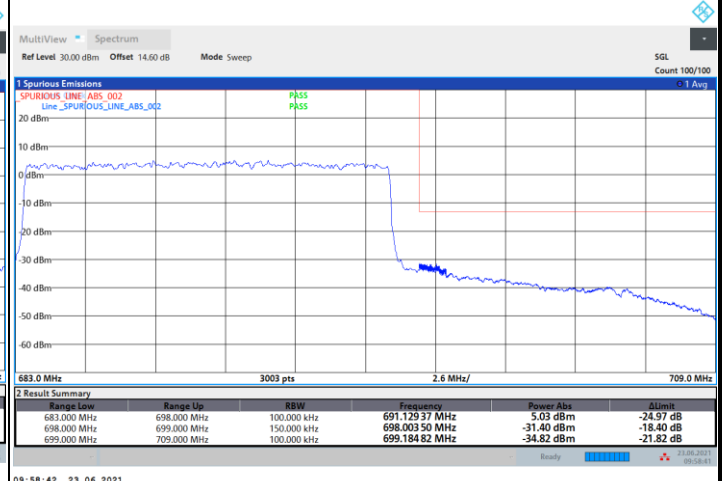
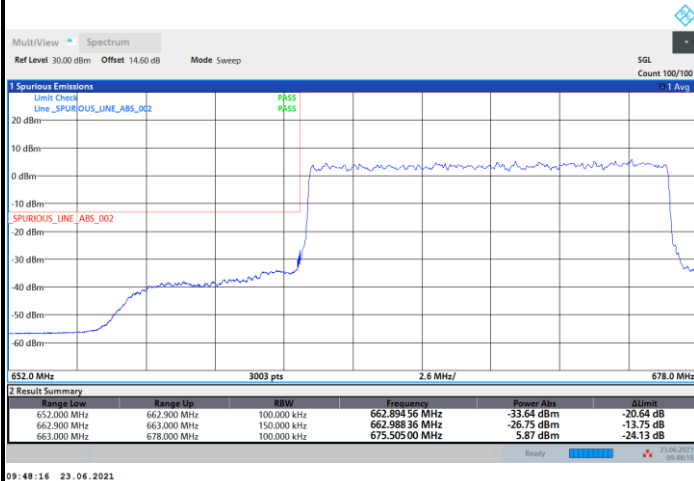




FR1 n71 / 15MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge

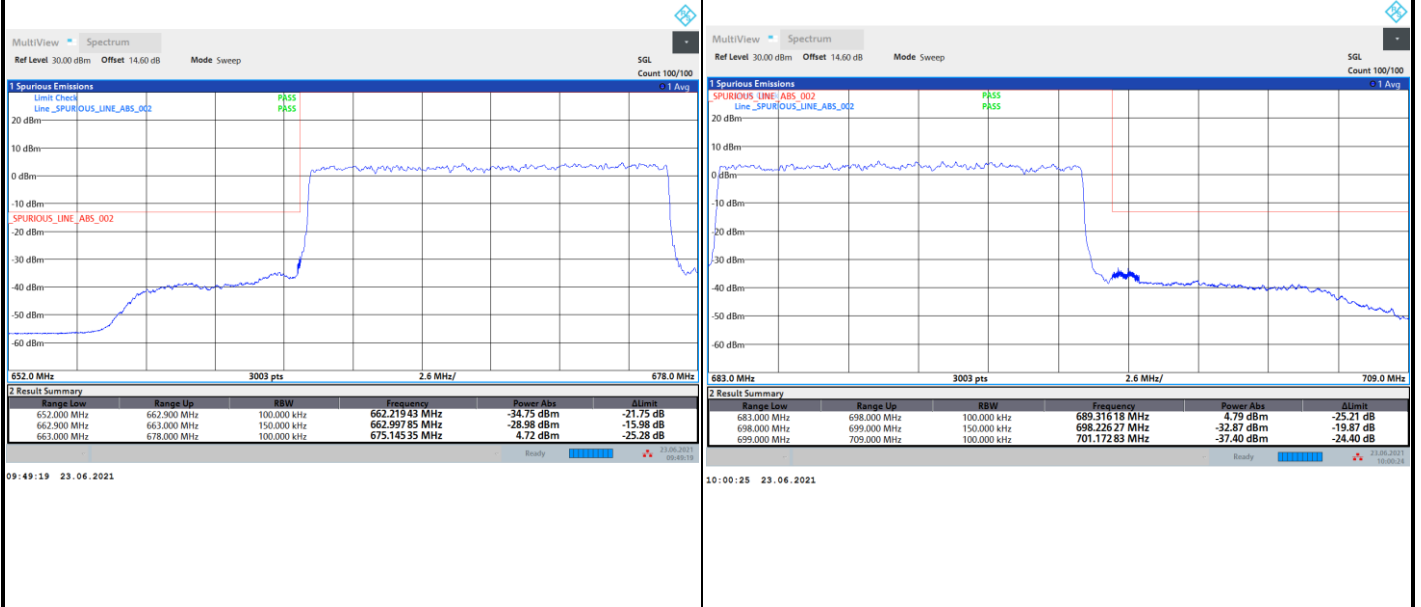




FR1 n71 / 15MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge

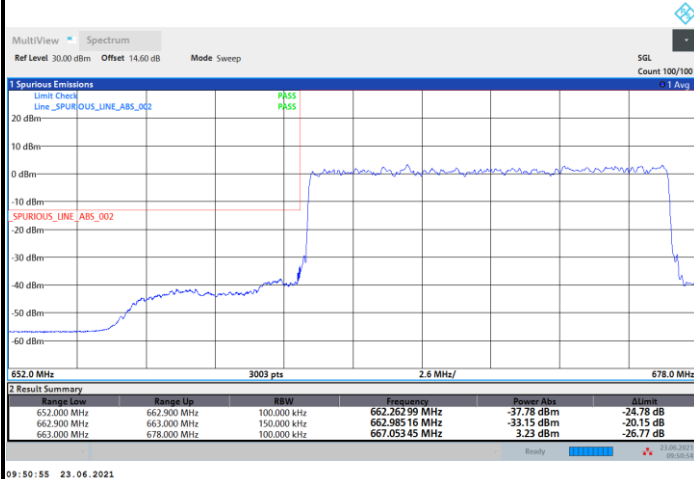




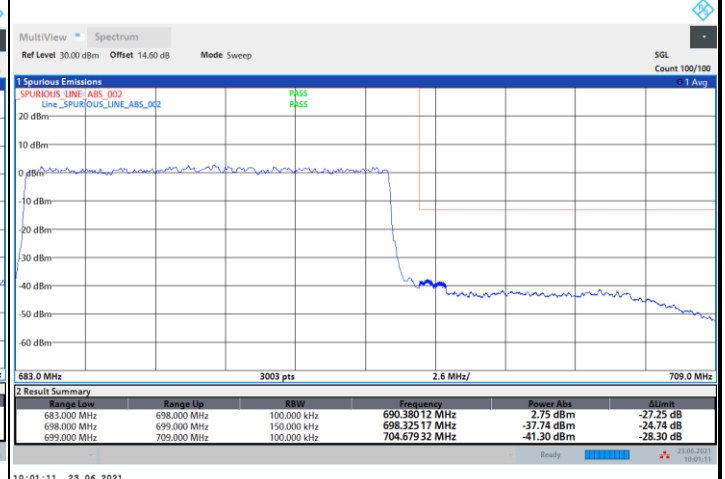
FR1 n71 / 15MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



09:50:55 23.06.2021

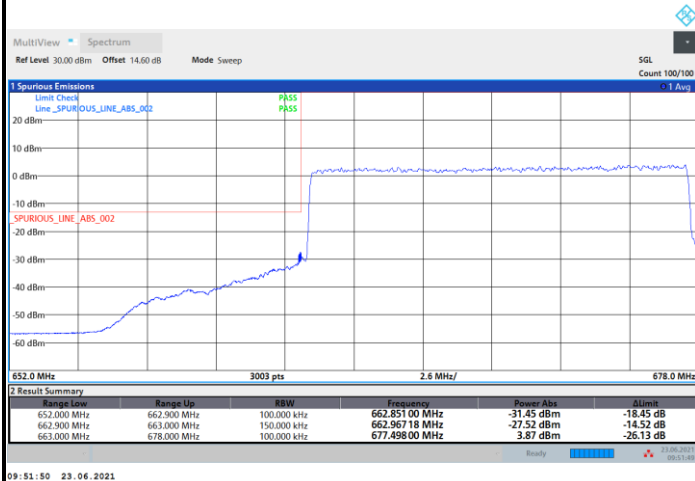


10:01:11 23.06.2021

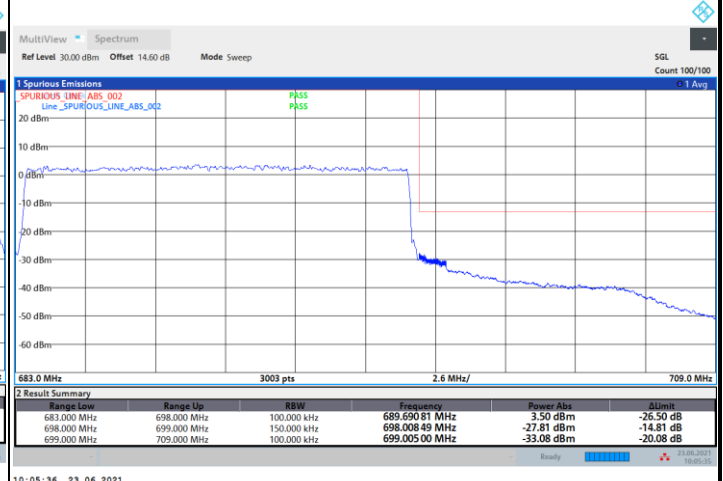


FR1 n71 / 15MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



Highest Band Edge

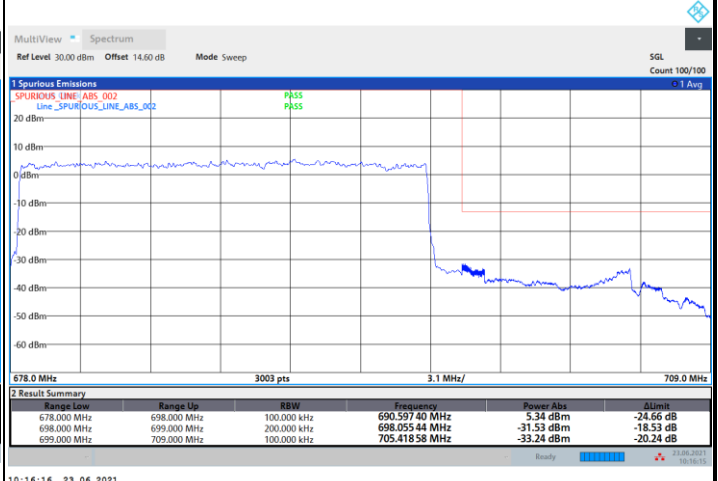
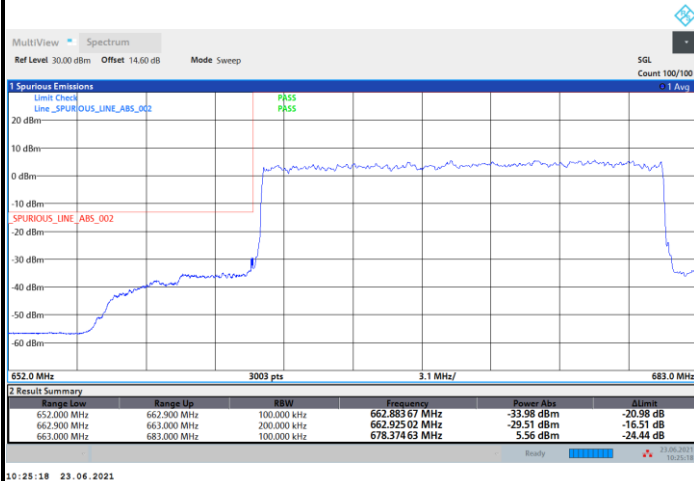




FR1 n71 / 20MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge

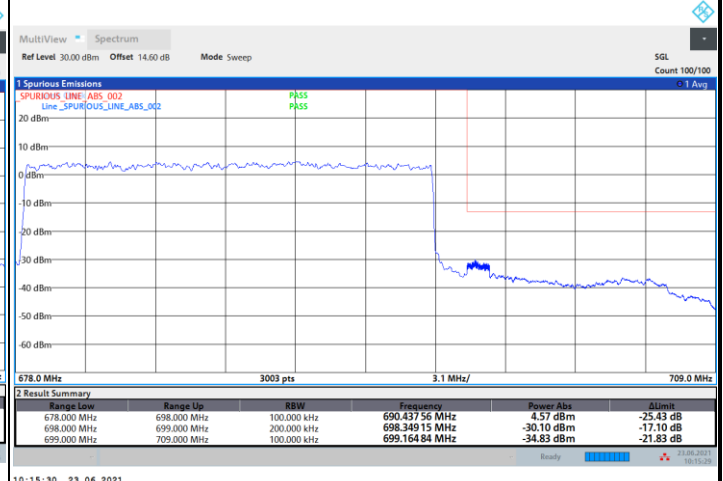
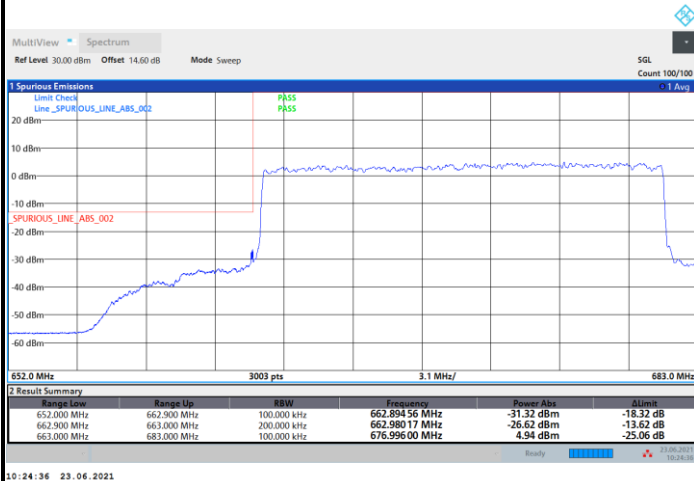




FR1 n71 / 20MHz / DFT-s-OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge

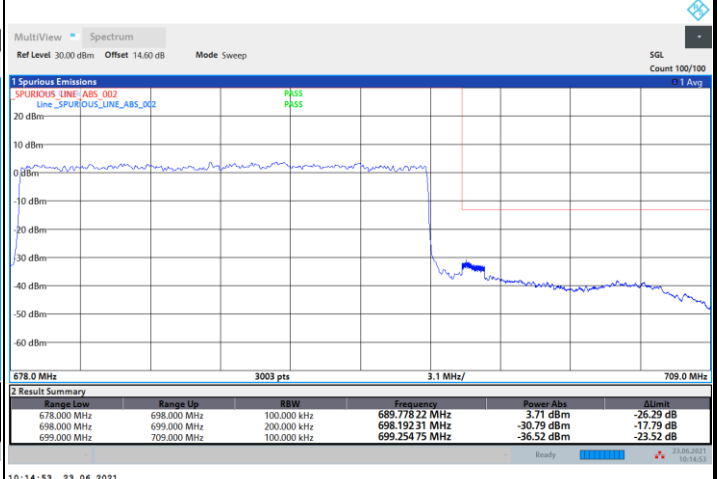
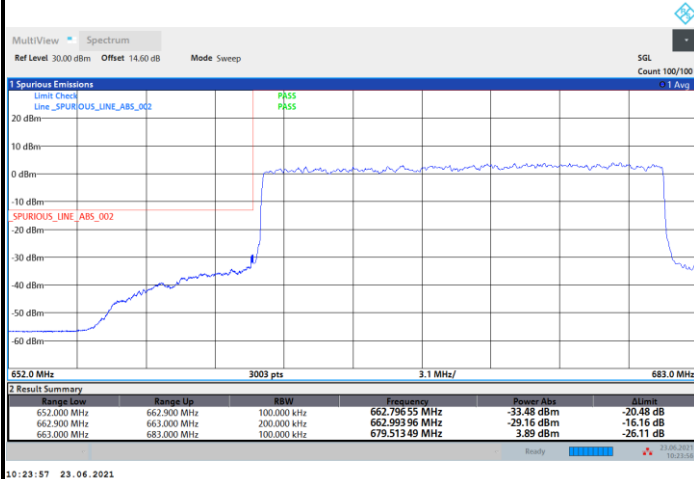




FR1 n71 / 20MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge

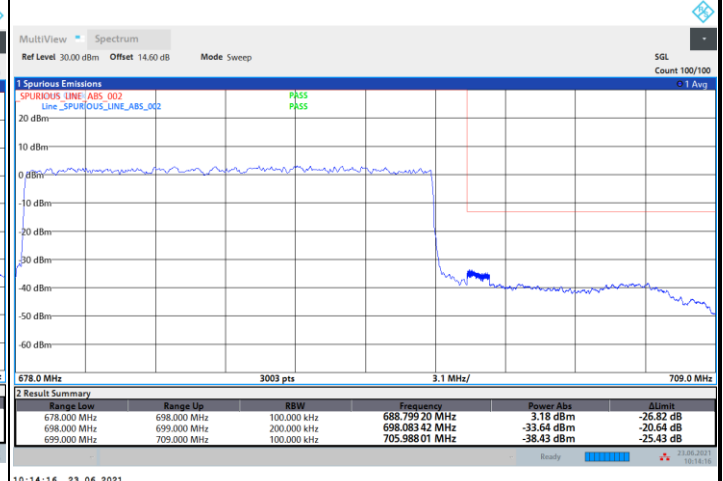
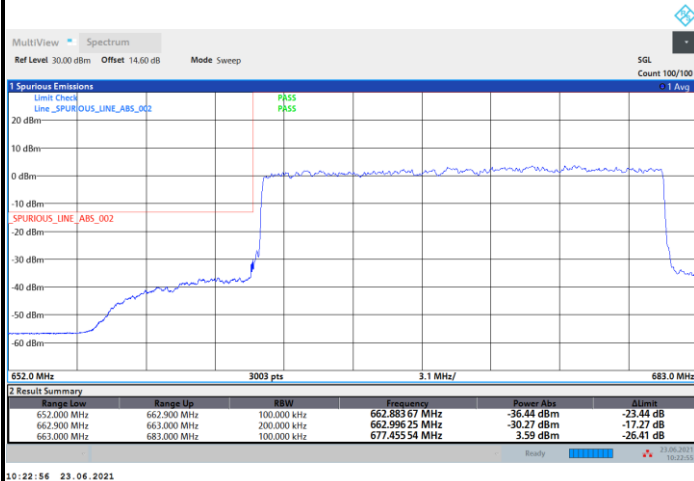




FR1 n71 / 20MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge

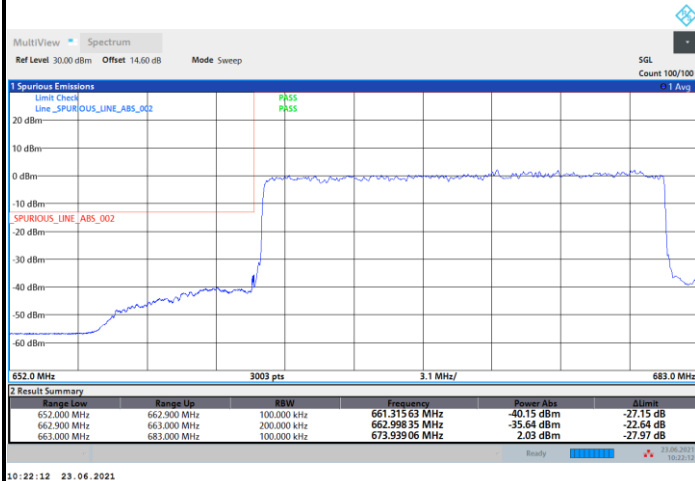
Highest Band Edge



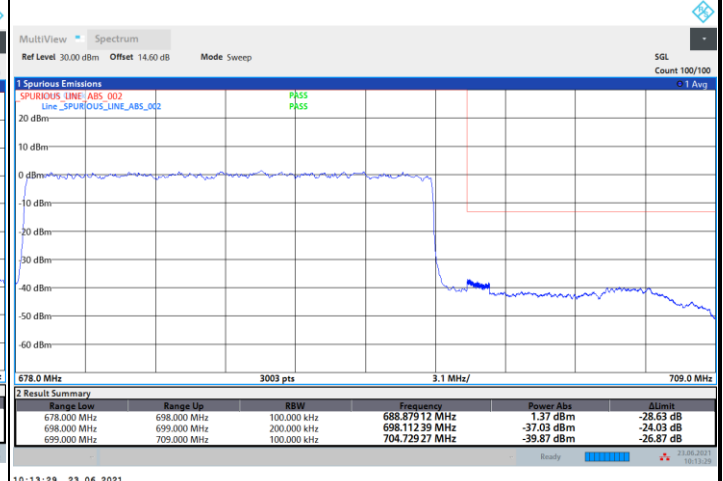


FR1 n71 / 20MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge



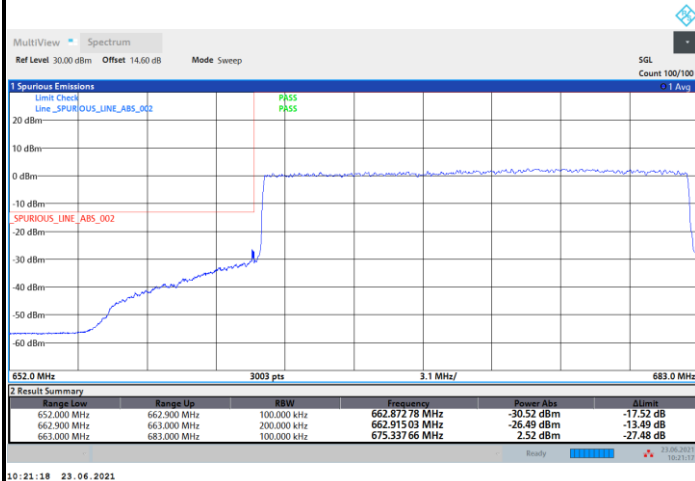
Highest Band Edge



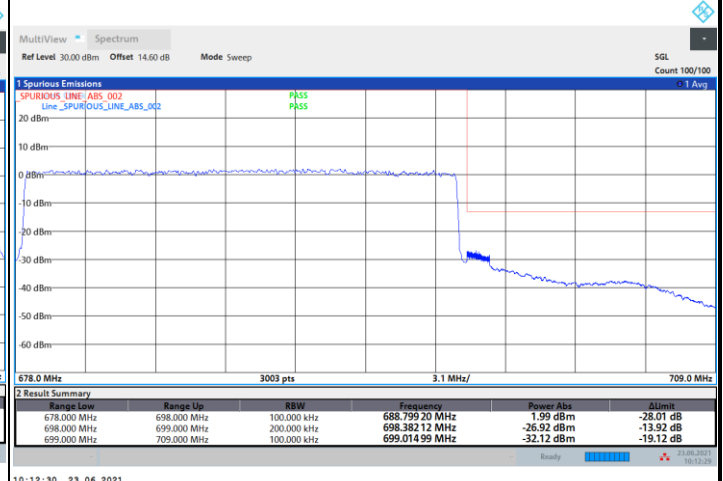


FR1 n71 / 20MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



Highest Band Edge

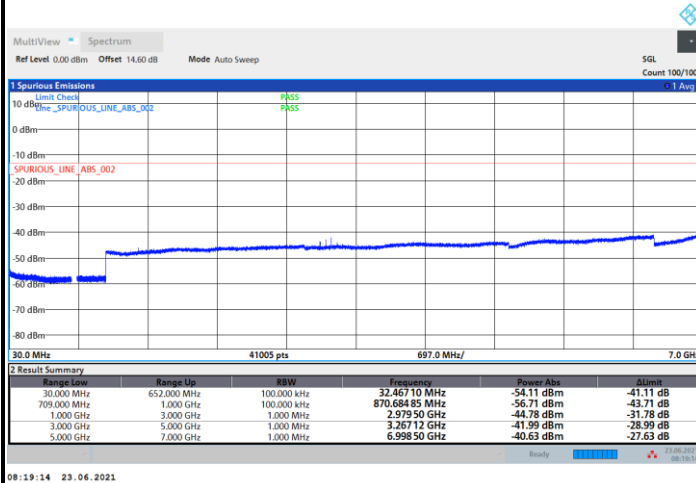




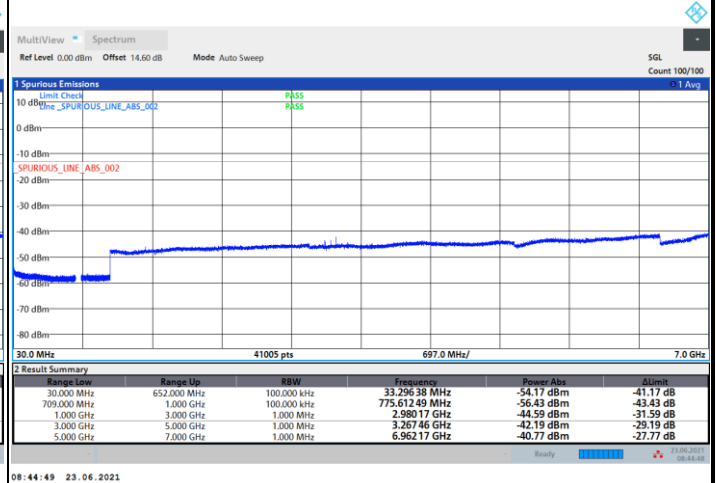
Conducted Spurious Emission

FR1 n71 / 5MHz / DFT-S OFDM / QPSK / 1RB1

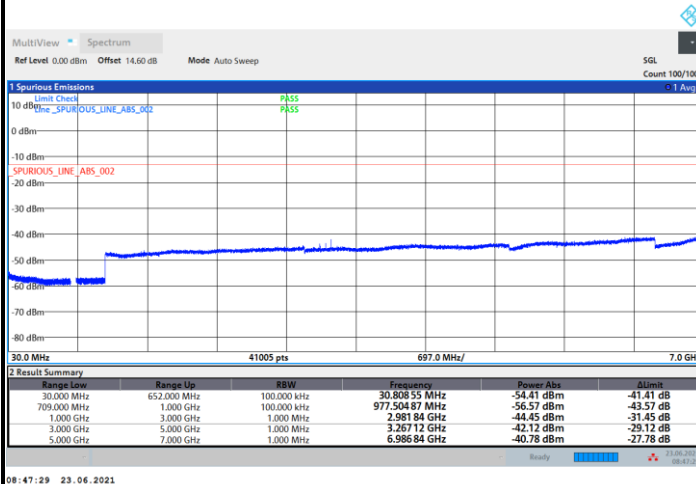
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n71 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
40	Normal Voltage	0.0037	PASS
30	Normal Voltage	0.0087	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0044	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0043	
-20	Normal Voltage	0.0057	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =3.80 V. ; Battery End Point (BEP) =3.40 V. ; Maximum Voltage =4.35 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. EUT can't operate outside the temperatures between -20 °C and 40 °C.



Appendix B. Test Results of Radiated Test

EN-DC 5A-n2A

EN-DC 5A-n2A / 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	-57.13	-13	-44.13	-78.16	-66.84	2.78	12.48	H
	5613	-55.47	-13	-42.47	-80.34	-65.34	3.48	13.35	H
	7485	-51.14	-13	-38.14	-80.66	-58.31	4.00	11.17	H
									H
									H
									H
									H
	3742	-55.73	-13	-42.73	-77.16	-65.44	2.78	12.48	V
	5613	-55.48	-13	-42.48	-80.57	-65.35	3.48	13.35	V
	7485	-50.61	-13	-37.61	-80.5	-57.78	4.00	11.17	V
									V
									V
									V
									V

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

**EN-DC 12A-n2A**

EN-DC 5A-n2A / 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	-57.01	-13	-44.01	-78.04	-66.72	2.78	12.48	H
	5611	-55.14	-13	-42.14	-80	-65.01	3.48	13.34	H
	7485	-50.80	-13	-37.80	-90.32	-57.97	4.00	11.17	H
									H
									H
									H
									H
	3742	-56.20	-13	-43.20	-77.63	-65.91	2.78	12.48	V
	5611	-53.33	-13	-40.33	-78.41	-63.20	3.48	13.34	V
	7485	-50.28	-13	-37.28	-80.17	-57.45	4.00	11.17	V
									V
									V
									V
									V

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

**EN-DC 12A-n25A**

EN-DC 12A-n25A / 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	-57.32	-13	-44.32	-78.2	-66.96	2.77	12.40	H
	5553	-55.15	-13	-42.15	-80.18	-65.08	3.46	13.39	H
	7404	-50.57	-13	-37.57	-80.08	-57.77	3.98	11.18	H
									H
									H
									H
									H
	3702	-55.50	-13	-42.50	-76.79	-65.14	2.77	12.40	V
	5553	-54.91	-13	-41.91	-80.01	-64.84	3.46	13.39	V
	7404	-50.28	-13	-37.28	-80.27	-57.48	3.98	11.18	V
									V
									V
									V
									V
Middle	3749	-57.46	-13	-44.46	-78.51	-67.18	2.78	12.50	H
	5621	-55.89	-13	-42.89	-80.8	-65.79	3.48	13.38	H
	7495	-51.18	-13	-38.18	-80.7	-58.37	4.00	11.19	H
									H
									H
									H
									H
	3749	-57.05	-13	-44.05	-78.48	-66.77	2.78	12.50	V
	5621	-55.53	-13	-42.53	-80.66	-65.43	3.48	13.38	V
	7495	-50.72	-13	-37.72	-80.59	-57.91	4.00	11.19	V
									V
									V
									V
									V



Highest	3792	-57.17	-13	-44.17	-78.37	-66.80	2.79	12.42	H
	5688	-55.76	-13	-42.76	-81.03	-65.69	3.50	13.42	H
	7585	-51.28	-13	-38.28	-80.39	-58.59	4.03	11.34	H
									H
									H
									H
									H
	3792	-55.96	-13	-42.96	-77.54	-65.59	2.79	12.42	V
	5688	-55.66	-13	-42.66	-81.16	-65.59	3.50	13.42	V
	7585	-50.69	-13	-37.69	-80.32	-58.00	4.03	11.34	V
									V
									V
									V
									V

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

**EN-DC 2A-n41A**

EN-DC 2A-n41A / 100MHz / 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	4992	-54.17	-25	-29.17	-78	-63.52	3.27	12.62	H
	7494	-47.94	-25	-22.94	-77.46	-55.13	4.00	11.19	H
	9981	-46.17	-25	-21.17	-79.56	-52.67	4.66	11.16	H
									H
									H
									H
									H
	4992	-48.73	-25	-23.73	-73.23	-58.08	3.27	12.62	V
	7494	-49.97	-25	-24.97	-79.84	-57.16	4.00	11.19	V
	9981	-46.00	-25	-21.00	-79.13	-52.50	4.66	11.16	V
									V
									V
									V
									V
Middle	5088	-51.59	-25	-26.59	-75.77	-60.61	3.30	12.32	H
	7632	-50.23	-25	-25.23	-79.3	-57.65	4.05	11.46	H
	10179	-45.90	-25	-20.90	-79.68	-52.50	4.72	11.32	H
									H
									H
									H
									H
	5088	-48.89	-25	-23.89	-73.66	-57.91	3.30	12.32	V
	7632	-49.58	-25	-24.58	-79.19	-57.00	4.05	11.46	V
	10179	-46.50	-25	-21.50	-79.73	-53.10	4.72	11.32	V
									V
									V
									V
									V



Highest	5184	-50.99	-25	-25.99	-75.52	-60.36	3.34	12.70	H
	7776	-49.60	-25	-24.60	-78.81	-57.24	4.10	11.74	H
	10368	-45.59	-25	-20.59	-79.84	-51.57	4.78	10.76	H
									H
									H
									H
									H
	5184	-48.13	-25	-23.13	-73.16	-57.50	3.34	12.70	V
	7776	-49.45	-25	-24.45	-79.16	-57.09	4.10	11.74	V
	10368	-46.78	-25	-21.78	-80.13	-52.76	4.78	10.76	V
									V
									V
									V
									V

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

EN-DC 66A-n41A

EN-DC 66A-n41A / 100MHz / 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	5088	-51.01	-25	-26.01	-75.19	-60.03	3.30	12.32	H
	7632	-50.21	-25	-25.21	-79.28	-57.63	4.05	11.46	H
	10179	-45.80	-25	-20.80	-79.58	-52.40	4.72	11.32	H
									H
									H
									H
									H
	5088	-48.85	-25	-23.85	-73.62	-57.87	3.30	12.32	V
	7632	-49.36	-25	-24.36	-78.97	-56.78	4.05	11.46	V
	10179	-46.42	-25	-21.42	-79.65	-53.02	4.72	11.32	V
									V
									V
									V
									V

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

**EN-DC 2A-n66A**

EN-DC 2A-n66A / 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	3441	-56.40	-13	-43.40	-76.01	-66.31	2.69	12.60	H
	5163	-53.60	-13	-40.60	-78.05	-62.85	3.33	12.58	H
	6885	-50.80	-13	-37.80	-78.98	-59.05	3.87	12.12	H
									H
									H
									H
									H
	3441	-48.88	-13	-35.88	-68.86	-58.79	2.69	12.60	V
	5163	-50.79	-13	-37.79	-75.77	-60.04	3.33	12.58	V
	6885	-48.16	-13	-35.16	-76.58	-56.41	3.87	12.12	V
									V
									V
									V
									V
Middle	3469	-56.78	-13	-43.78	-76.64	-66.60	2.71	12.52	H
	5205	-50.72	-13	-37.72	-75.31	-60.22	3.34	12.84	H
	6941	-50.56	-13	-37.56	-78.91	-58.67	3.89	12.00	H
									H
									H
									H
									H
	3469	-47.87	-13	-34.87	-68.1	-57.69	2.71	12.52	V
	5205	-50.45	-13	-37.45	-75.52	-59.95	3.34	12.84	V
	6941	-44.80	-13	-31.80	-73.2	-52.91	3.89	12.00	V
									V
									V
									V
									V



Highest	3504	-56.32	-13	-43.32	-76.49	-65.98	2.72	12.38	H
	5254	-50.88	-13	-37.88	-75.5	-60.73	3.36	13.22	H
	7004	-49.69	-13	-36.69	-78.22	-57.66	3.91	11.88	H
									H
									H
									H
									H
	3504	-47.11	-13	-34.11	-67.65	-56.77	2.72	12.38	V
	5254	-50.00	-13	-37.00	-75.02	-59.85	3.36	13.22	V
	7004	-45.22	-13	-32.22	-73.62	-53.19	3.91	11.88	V
									V
									V
									V
									V

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

**EN-DC 12A-n66A**

EN-DC 12A-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)
Middle	3469	-58.38	-13	-45.38	-78.24	-68.20	2.71	12.52	H
	5208	-56.42	-13	-43.42	-81.01	-65.94	3.34	12.86	H
	6945	-50.78	-13	-37.78	-79.14	-58.89	3.89	12.00	H
									H
									H
									H
									H
	3469	-56.99	-13	-43.99	-77.22	-66.81	2.71	12.52	V
	5208	-55.80	-13	-42.80	-80.87	-65.32	3.34	12.86	V
	6945	-50.97	-13	-37.97	-79.36	-59.08	3.89	12.00	V
									V
									V
									V
									V

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

**EN-DC 2A-n71A**

EN-DC 2A-n71A / 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	1329	-44.34	-13	-31.34	-75.38	-49.16	1.64	6.46	H
	1993	-43.72	-13	-30.72	-77.28	-51.59	2.03	9.90	H
	2657	-41.22	-13	-28.22	-78	-49.69	2.33	10.80	H
									H
									H
									H
									H
	1329	-44.10	-13	-31.10	-75.13	-48.92	1.64	6.46	V
	1993	-43.23	-13	-30.23	-77.05	-51.10	2.03	9.90	V
	2657	-40.68	-13	-27.68	-78.01	-49.15	2.33	10.80	V
									V
									V
									V
									V
Middle	1344	-44.17	-13	-31.17	-75.25	-49.01	1.65	6.49	H
	2015	-43.34	-13	-30.34	-77.09	-51.20	2.04	9.90	H
	2687	-41.13	-13	-28.13	-78.08	-49.59	2.34	10.80	H
									H
									H
									H
									H
	1344	-44.29	-13	-31.29	-75.4	-49.13	1.65	6.49	V
	2015	-42.57	-13	-29.57	-76.6	-50.43	2.04	9.90	V
	2687	-40.53	-13	-27.53	-77.97	-48.99	2.34	10.80	V
									V
									V
									V
									V



Highest	1359	-44.61	-13	-31.61	-75.76	-49.52	1.66	6.57	H
	2038	-43.49	-13	-30.49	-77.49	-51.34	2.05	9.90	H
	2717	-40.96	-13	-27.96	-78.09	-49.47	2.36	10.87	H
									H
									H
									H
									H
	1359	-44.40	-13	-31.40	-75.63	-49.31	1.66	6.57	V
	2038	-43.18	-13	-30.18	-77.51	-51.03	2.05	9.90	V
	2717	-40.49	-13	-27.49	-78.05	-49.00	2.36	10.87	V
									V
									V
									V
									V

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

**EN-DC 66A-n71A**

EN-DC 66A-n71A / 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	1344	-44.09	-13	-31.09	-75.17	-48.93	1.65	6.49	H
	2015	-43.43	-13	-30.43	-77.18	-51.29	2.04	9.90	H
	2687	-40.67	-13	-27.67	-77.62	-49.13	2.34	10.80	H
									H
									H
									H
									H
	1344	-44.14	-13	-31.14	-75.25	-48.98	1.65	6.49	V
	2015	-43.19	-13	-30.19	-77.22	-51.05	2.04	9.90	V
	2687	-40.35	-13	-27.35	-77.79	-48.81	2.34	10.80	V
									V
									V
									V
									V

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