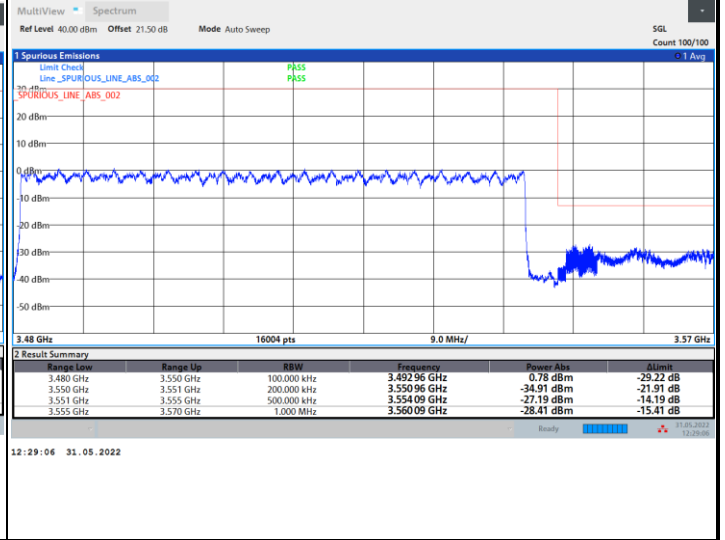
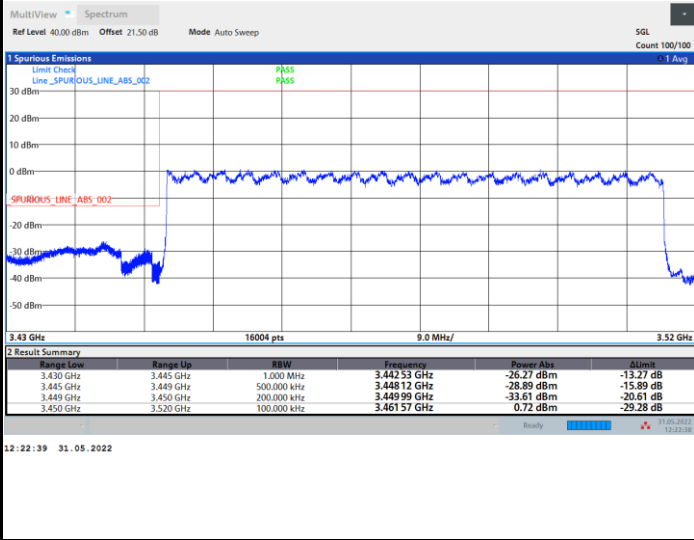




FR1 n77 / 70MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

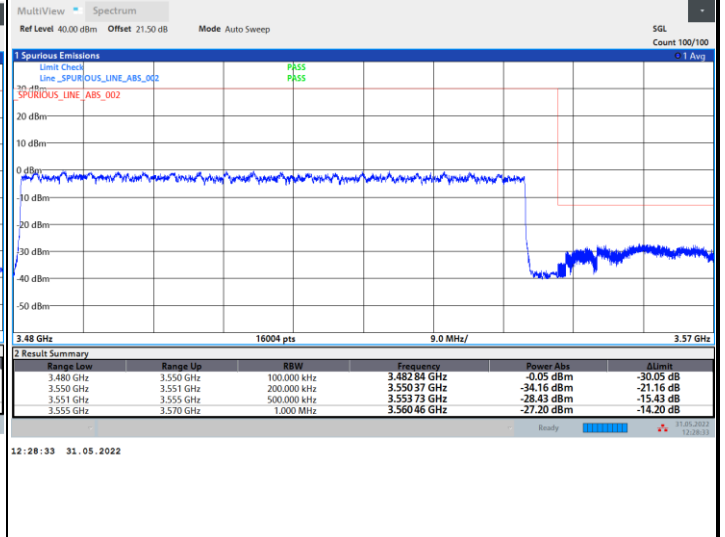
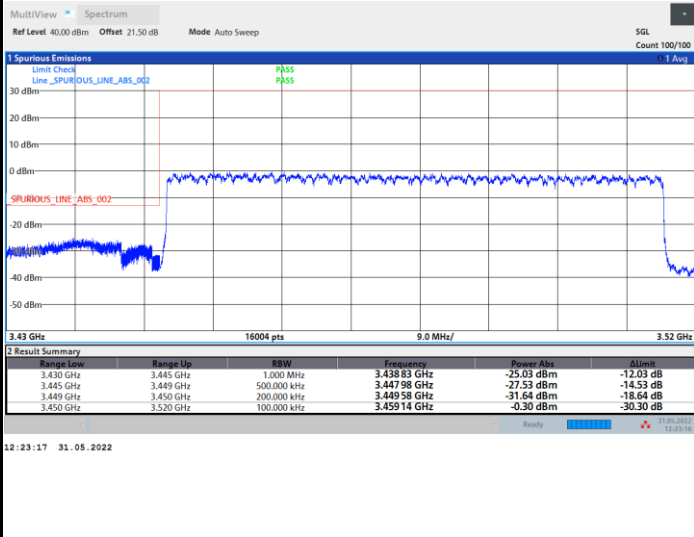
Highest Band Edge / Full RB



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

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

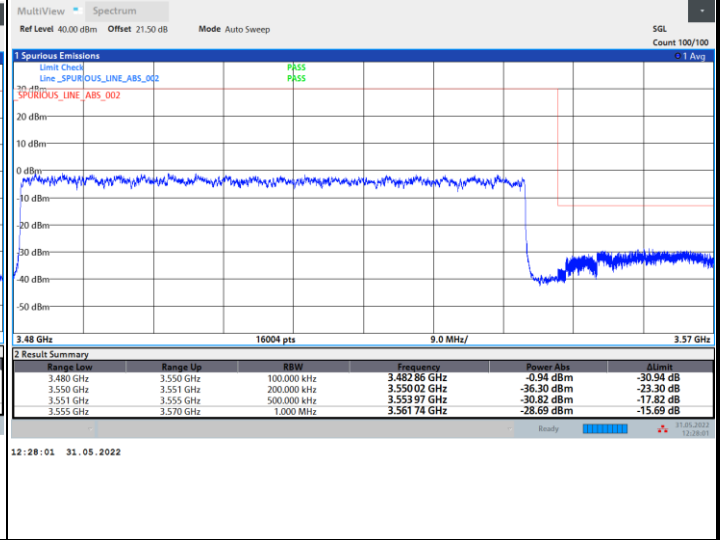
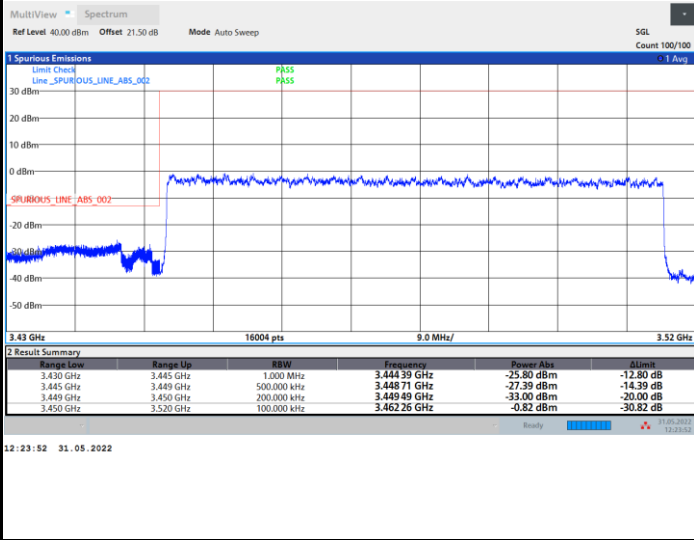




FR1 n77 / 70MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / Full RB

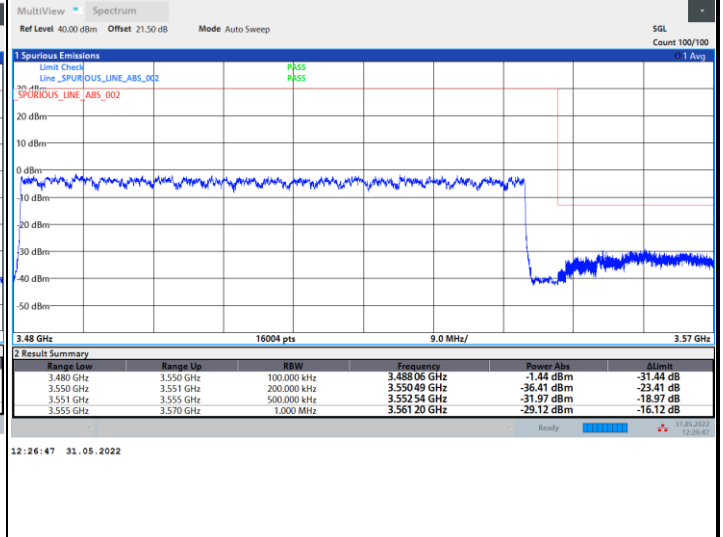
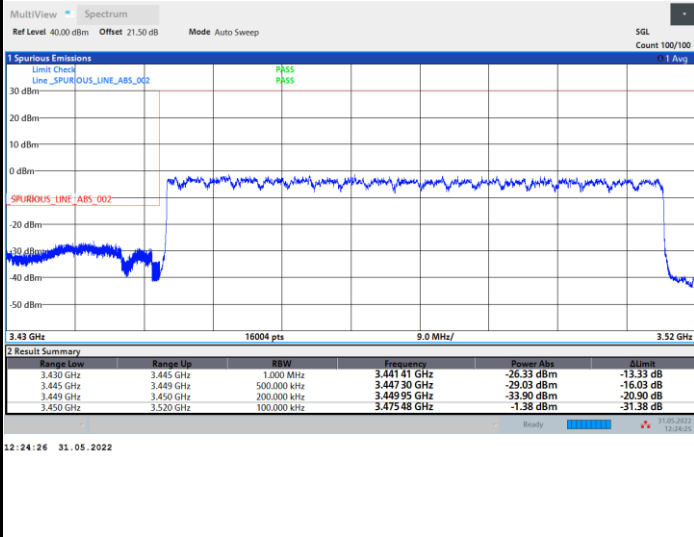
Highest Band Edge / Full RB



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

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

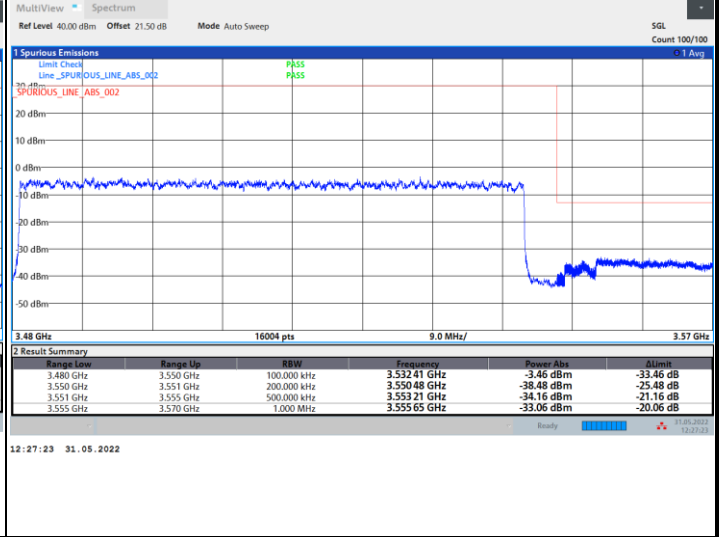
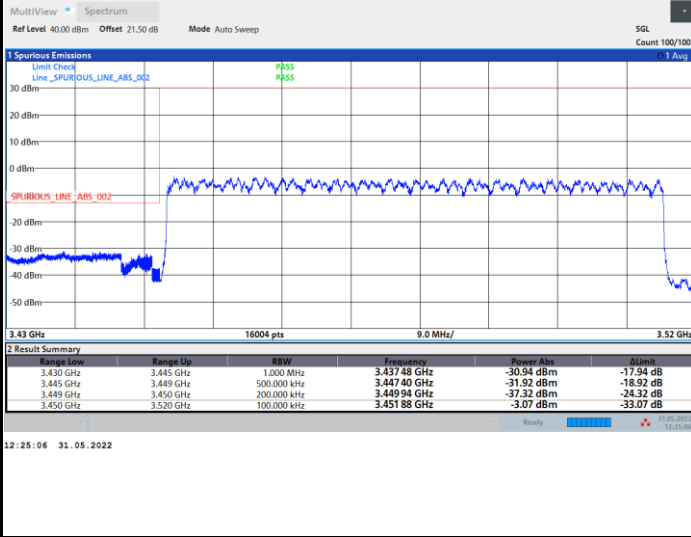




FR1 n77 / 70MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / Full RB

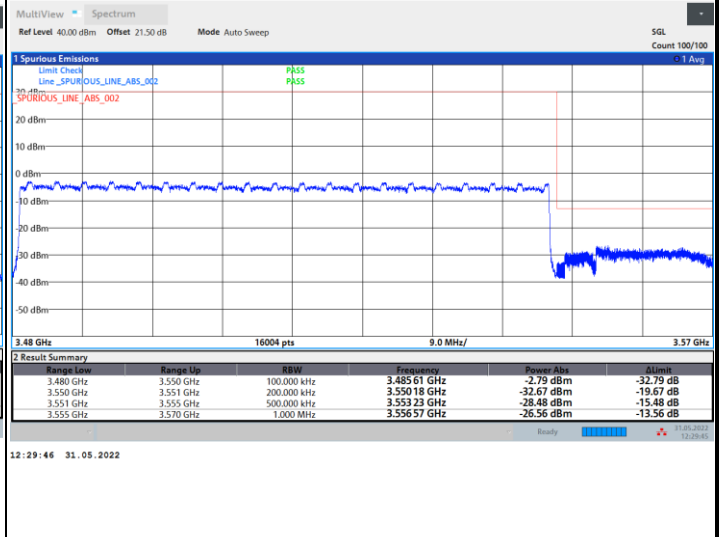
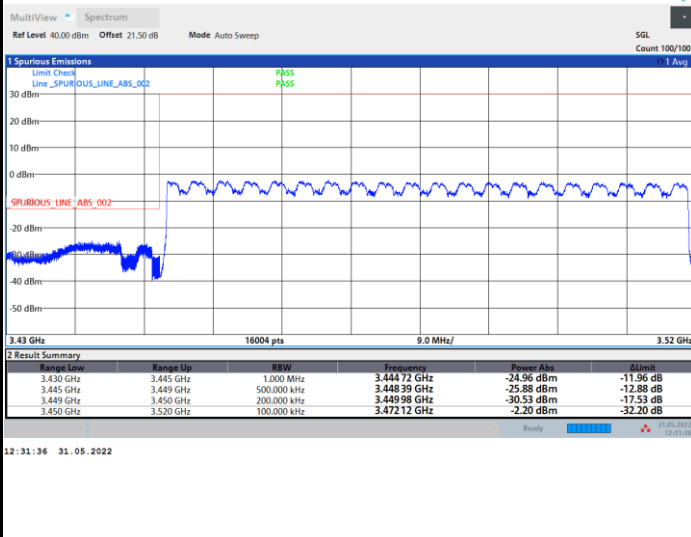
Highest Band Edge / Full RB



FR1 n77 / 70MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge

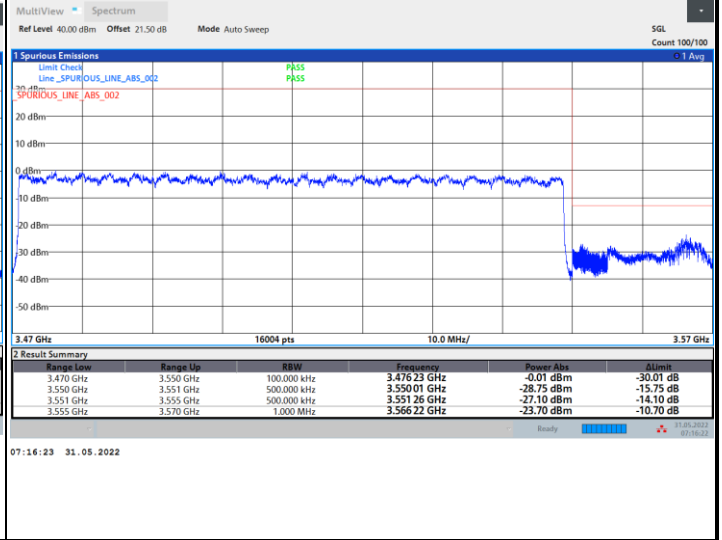
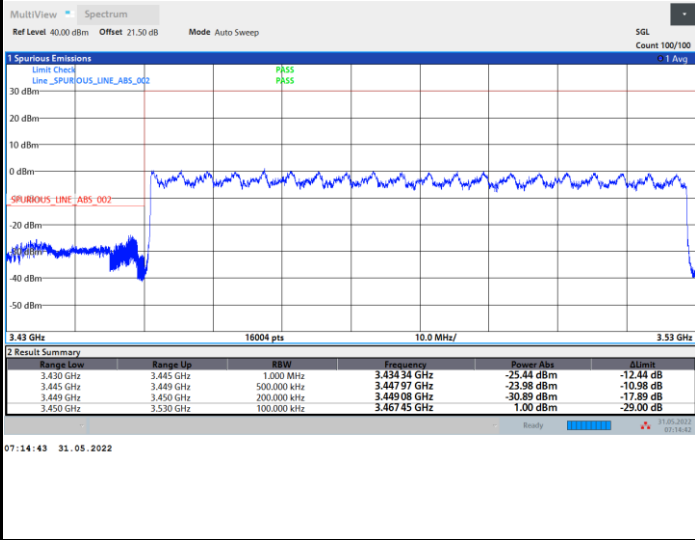




FR1 n77 / 80MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

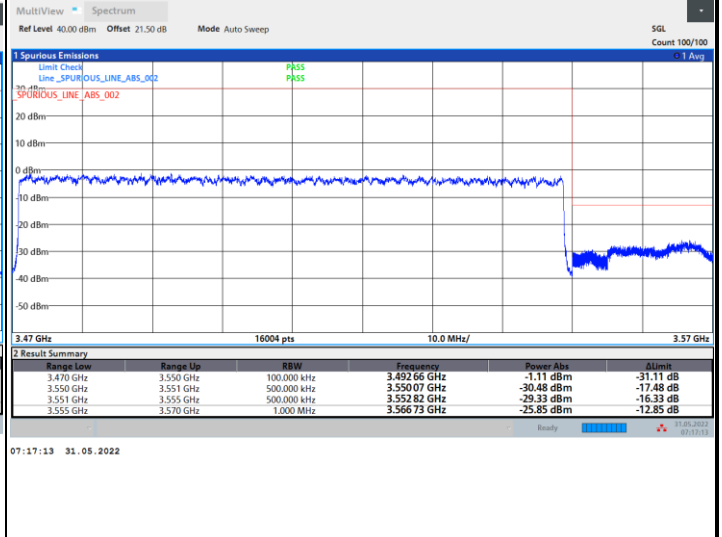
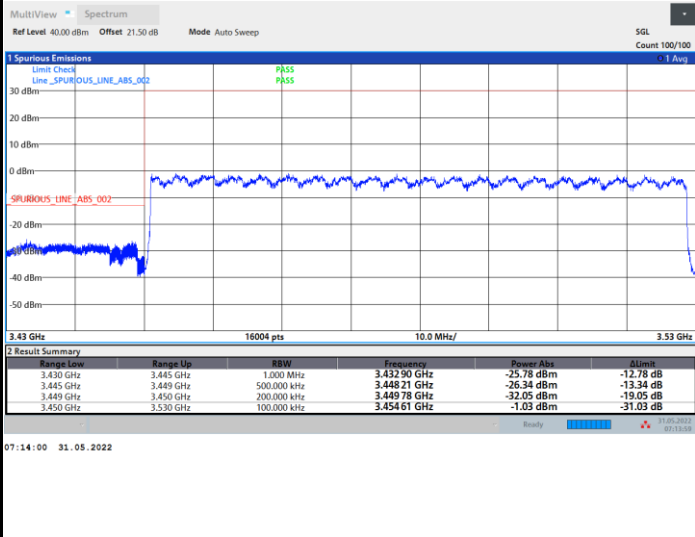
Highest Band Edge / Full RB



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

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

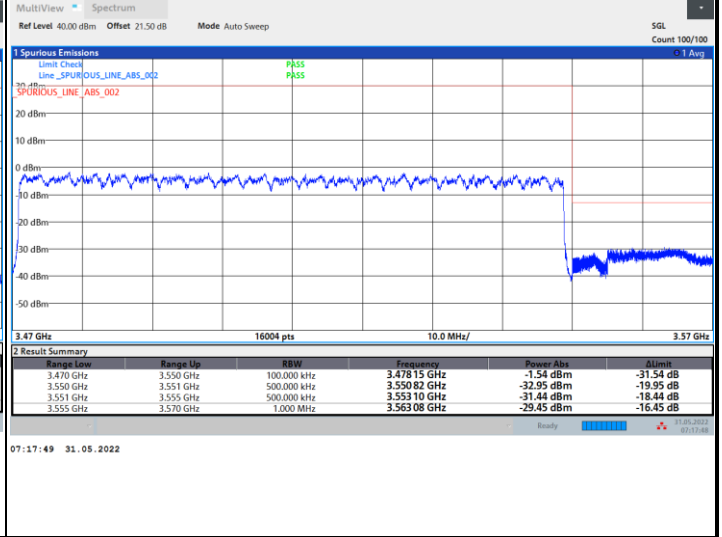
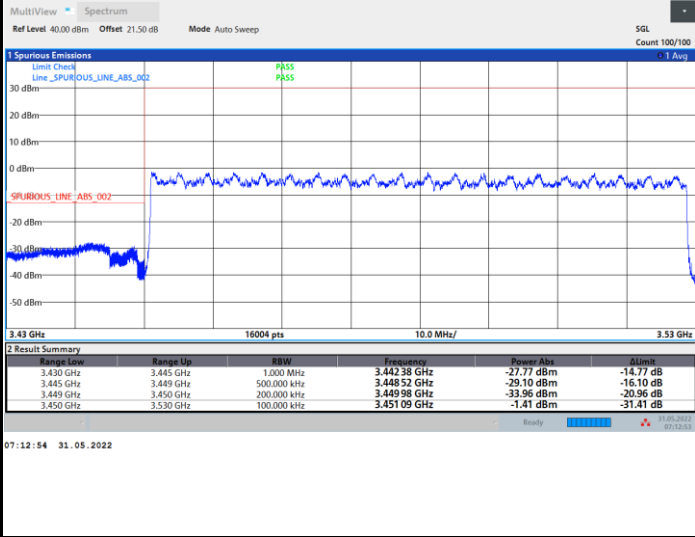




FR1 n77 / 80MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / Full RB

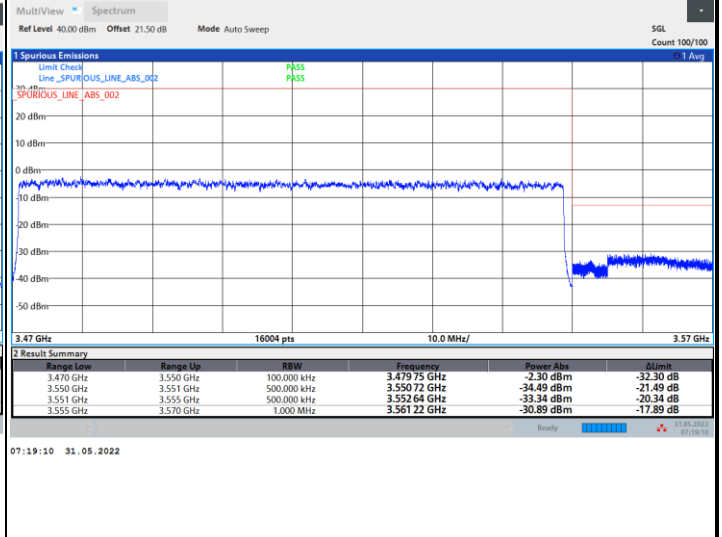
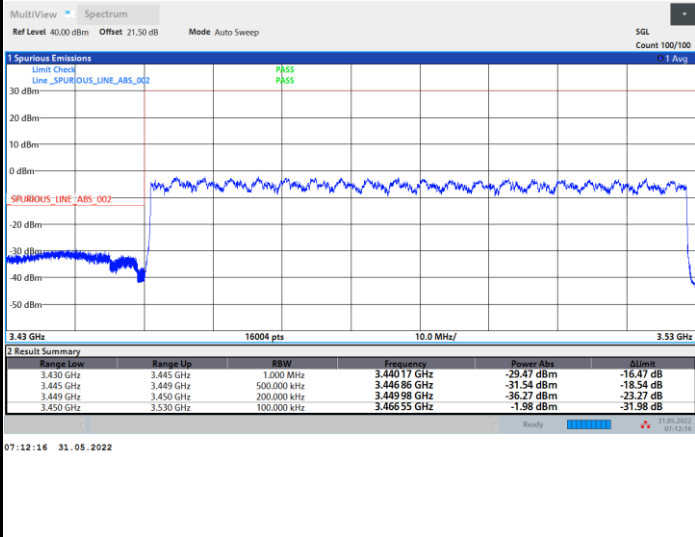
Highest Band Edge / Full RB



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

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

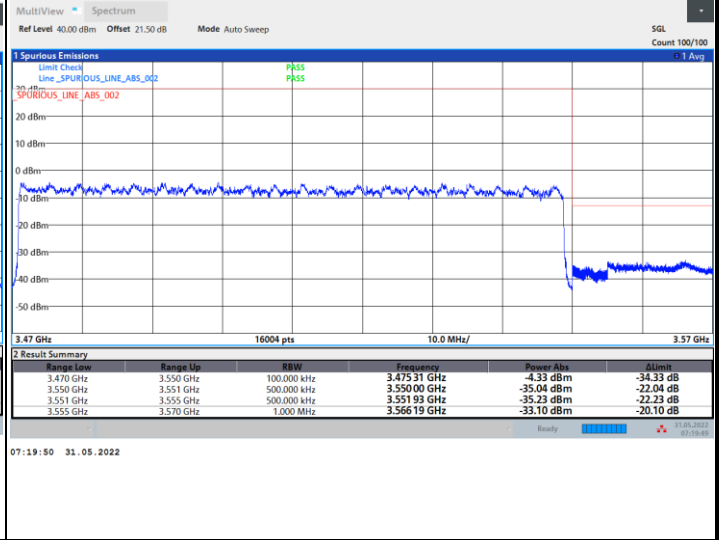
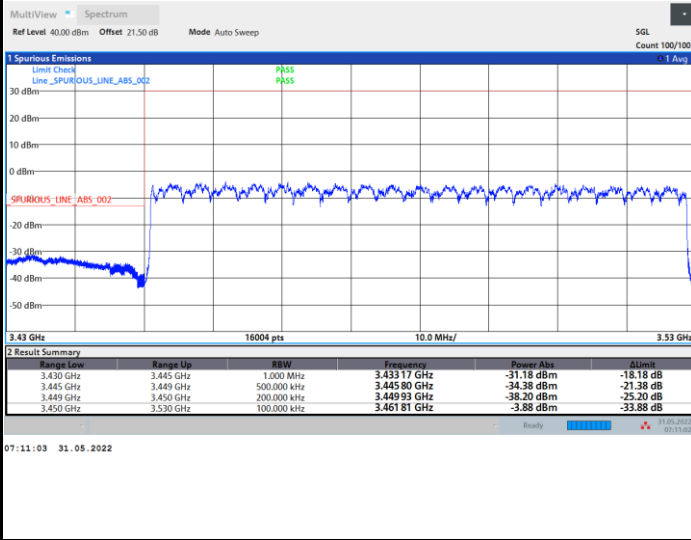




FR1 n77 / 80MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / Full RB

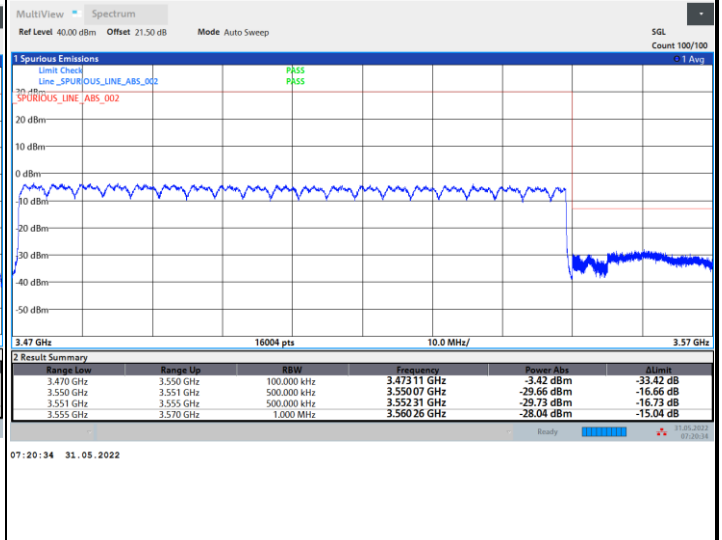
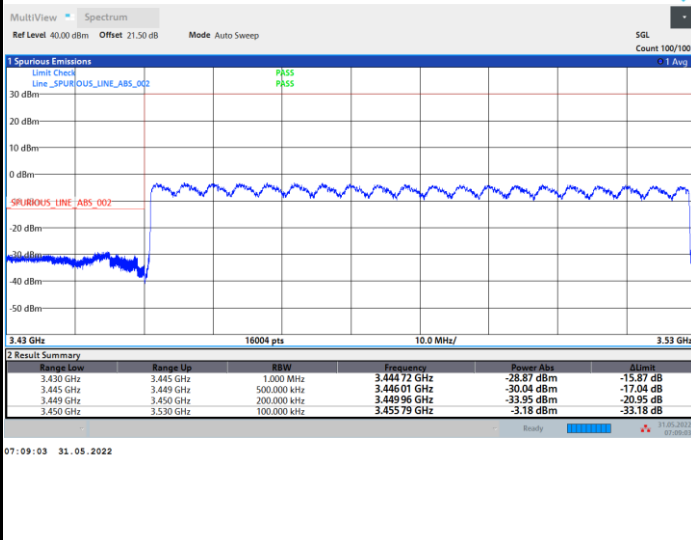
Highest Band Edge / Full RB



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

Lowest Band Edge

Highest Band Edge

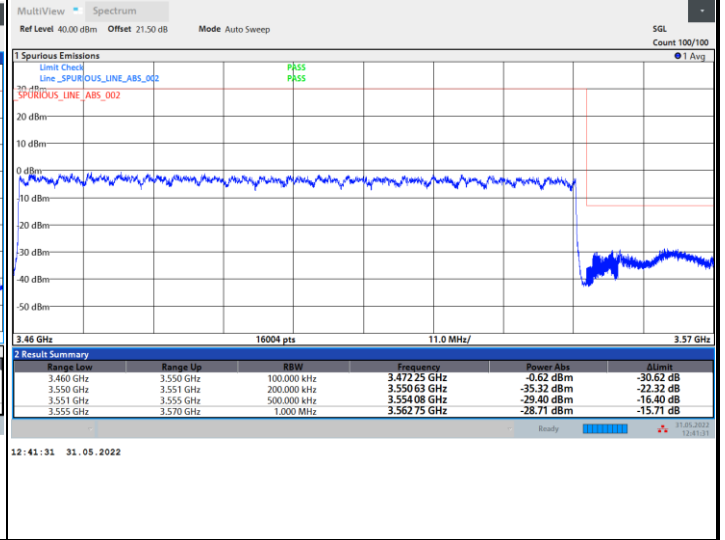
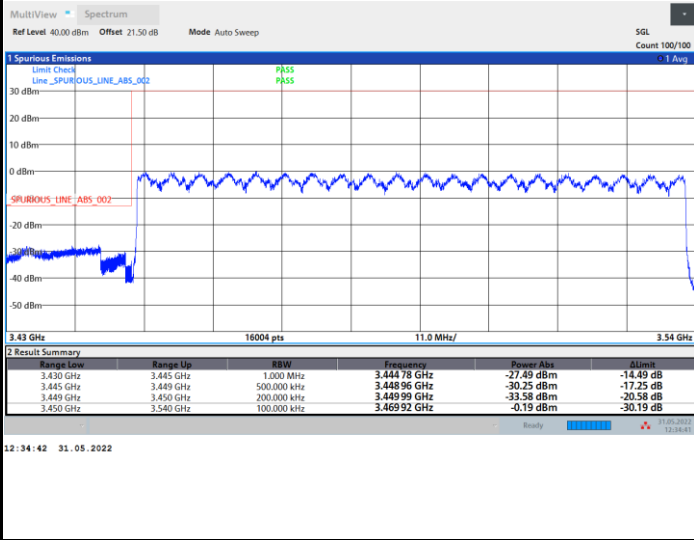




FR1 n77 / 90MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

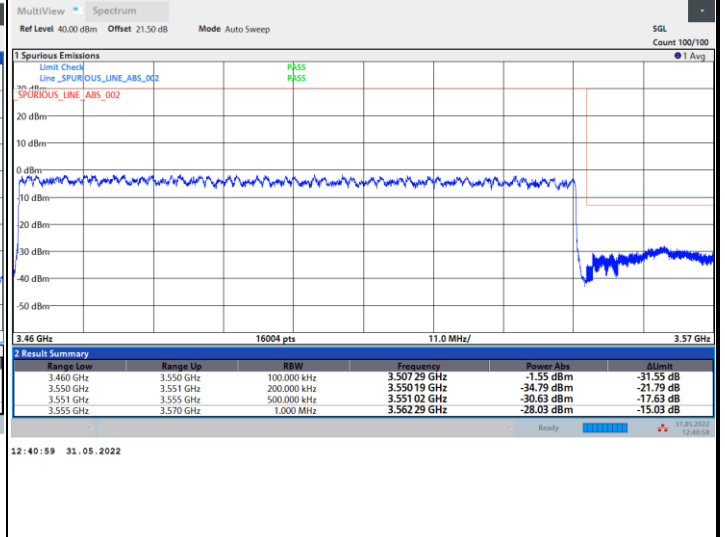
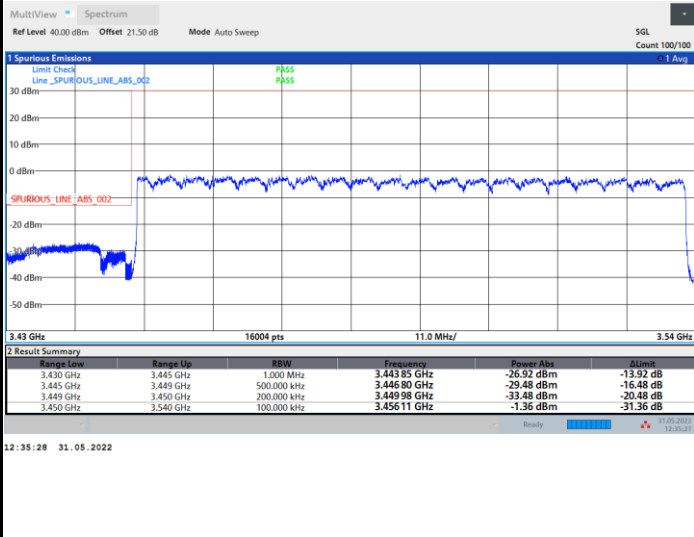
Highest Band Edge / Full RB



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

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

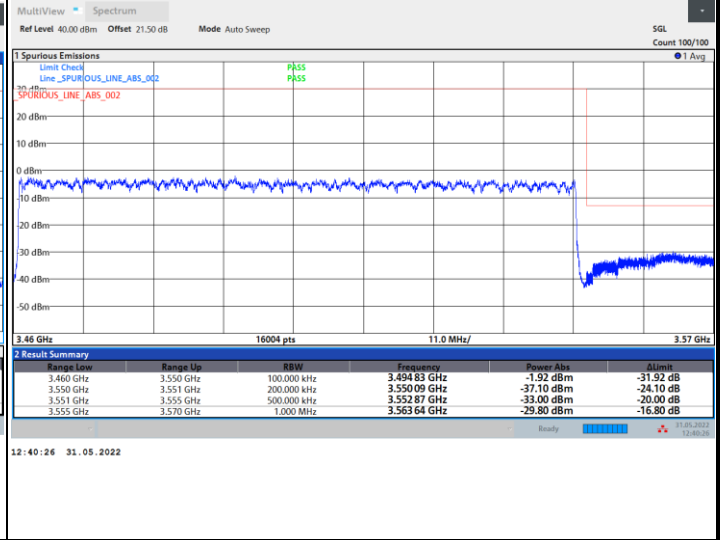
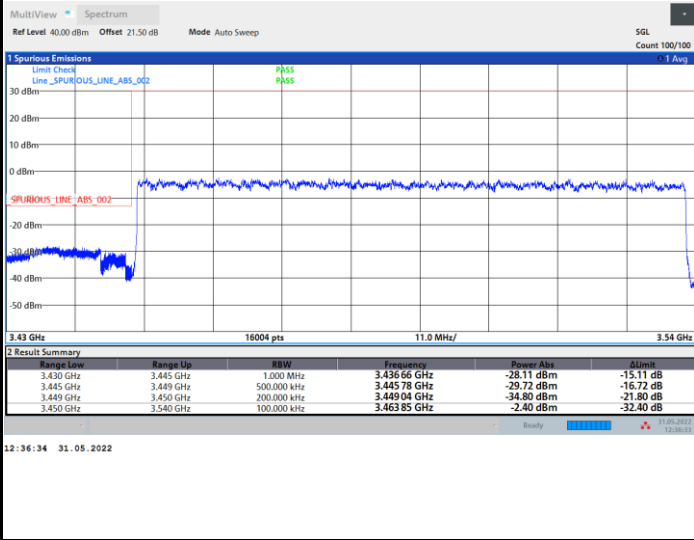




FR1 n77 / 90MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / Full RB

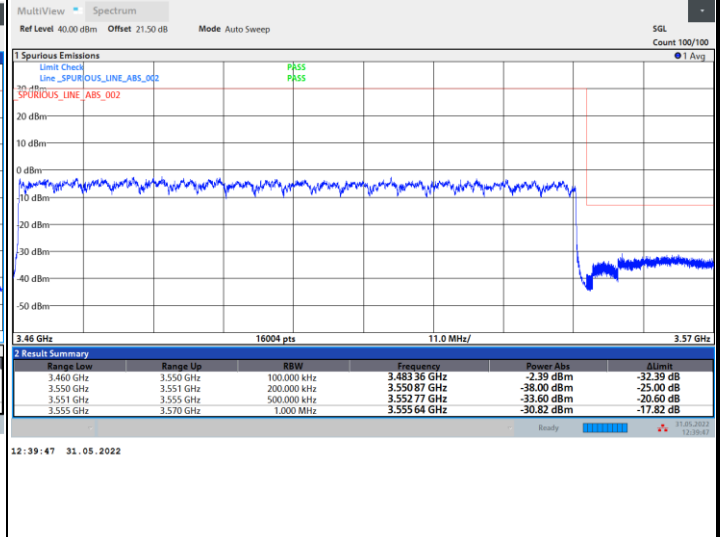
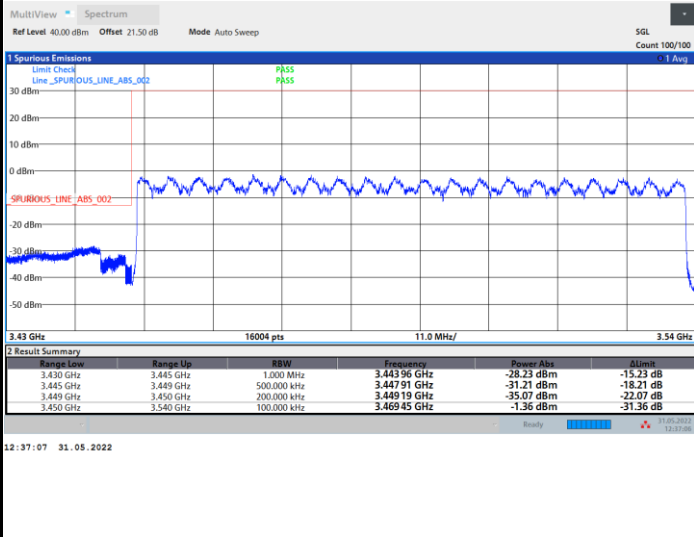
Highest Band Edge / Full RB



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

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

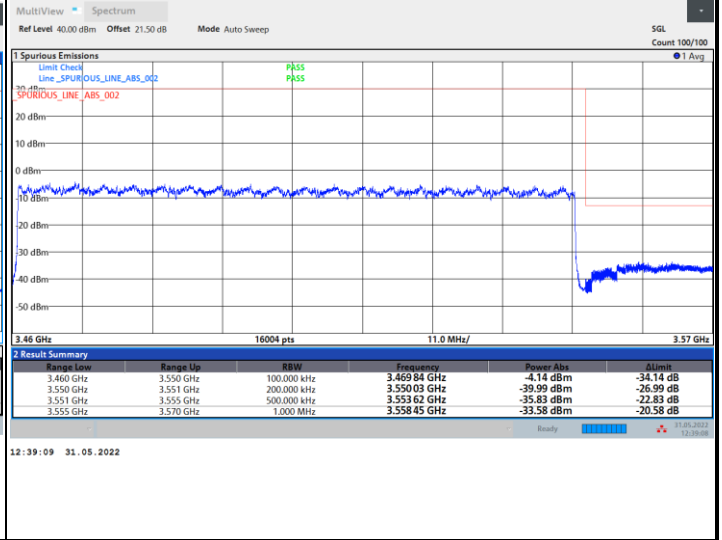
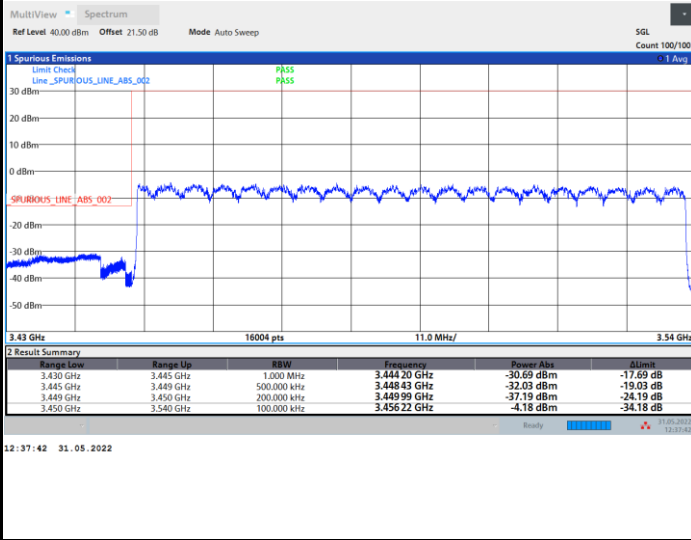




FR1 n77 / 90MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / Full RB

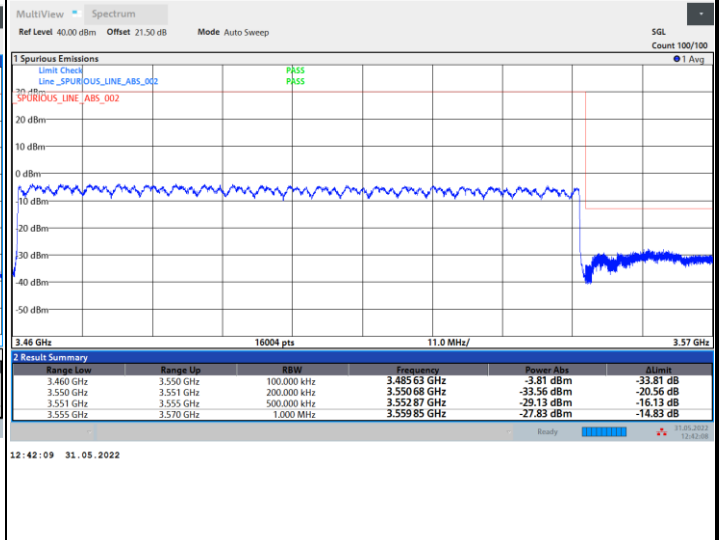
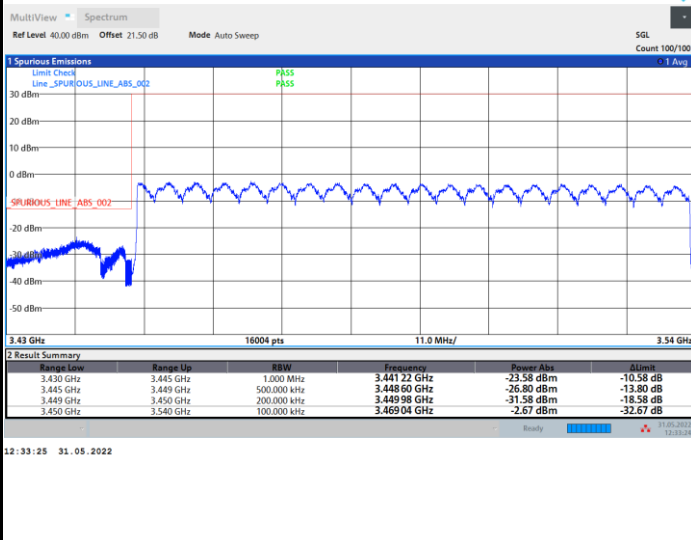
Highest Band Edge / Full RB



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

Lowest Band Edge

Highest Band Edge

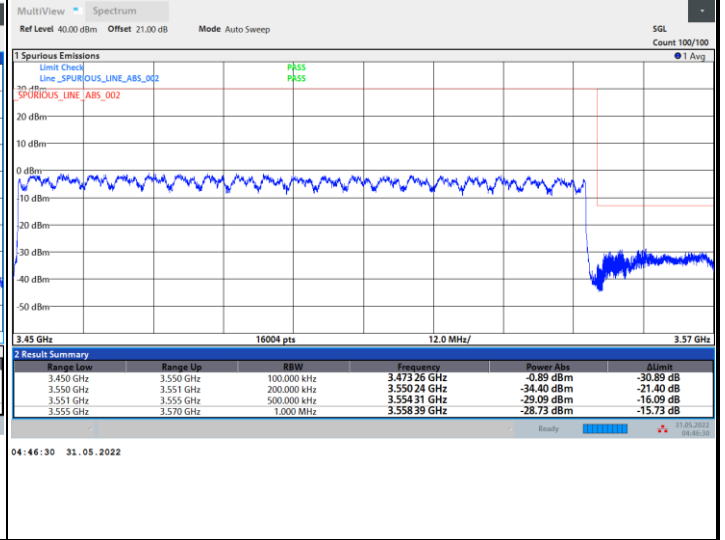
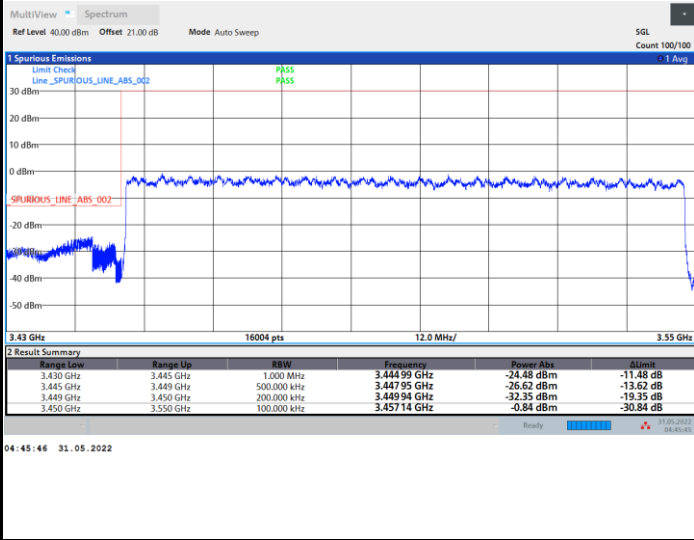




FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

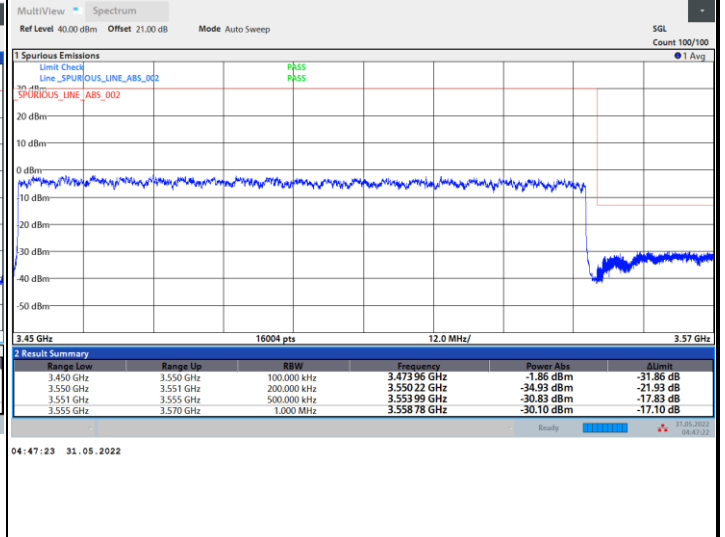
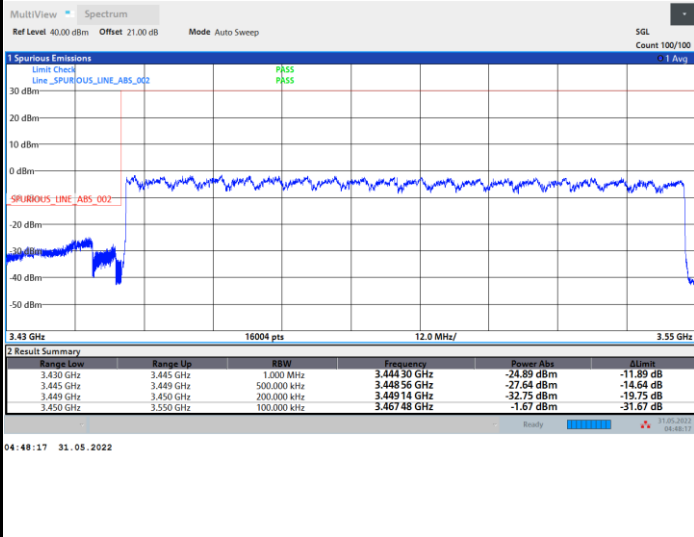
Highest Band Edge / Full RB



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

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

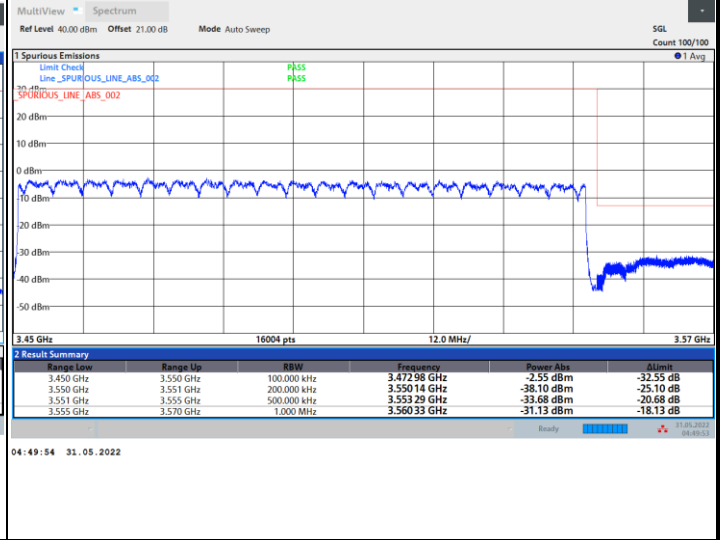
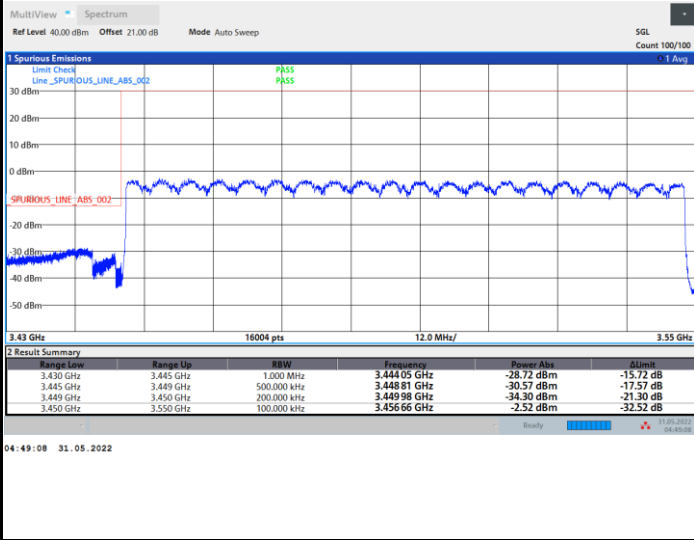




FR1 n77 / 100MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / Full RB

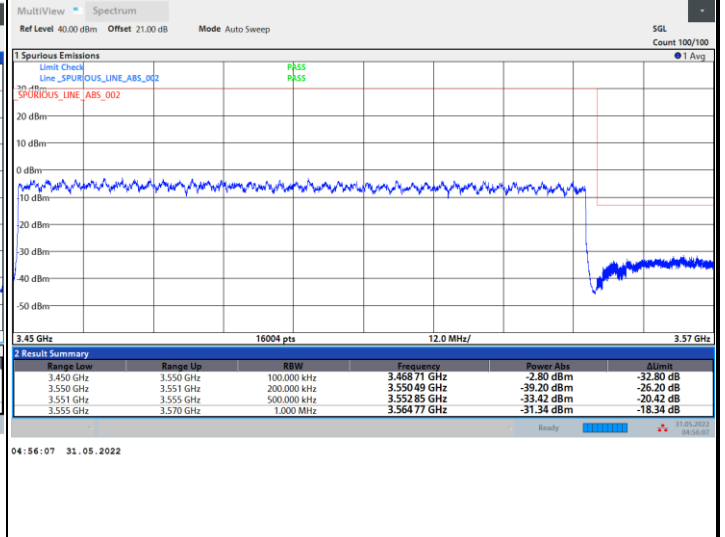
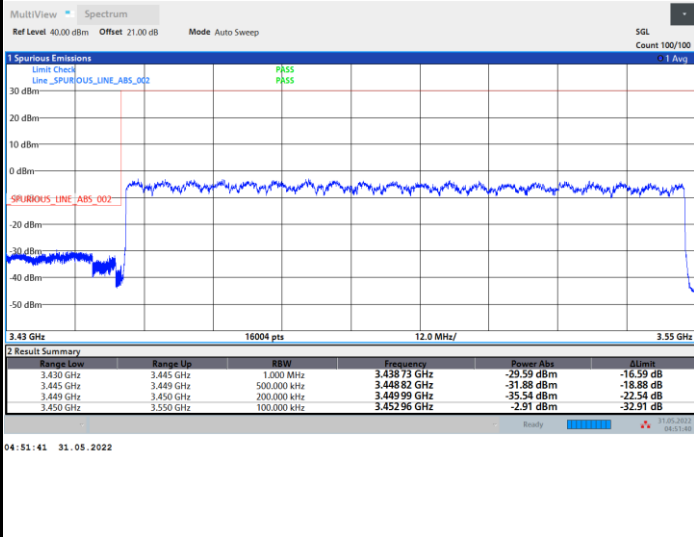
Highest Band Edge / Full RB



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

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

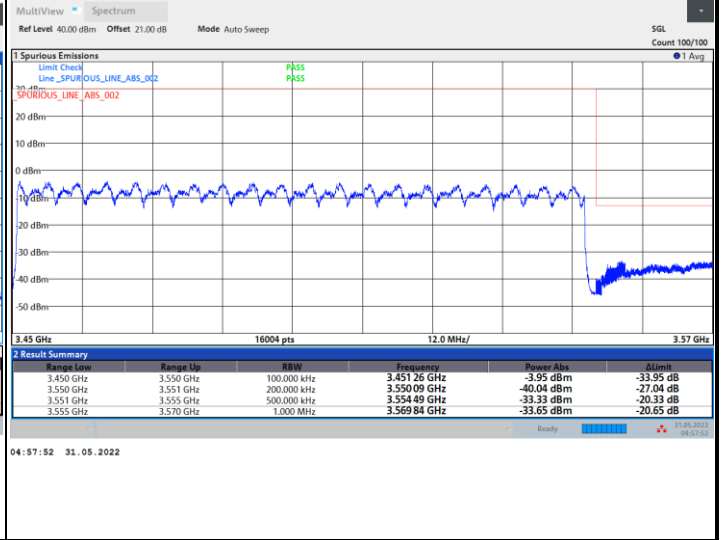
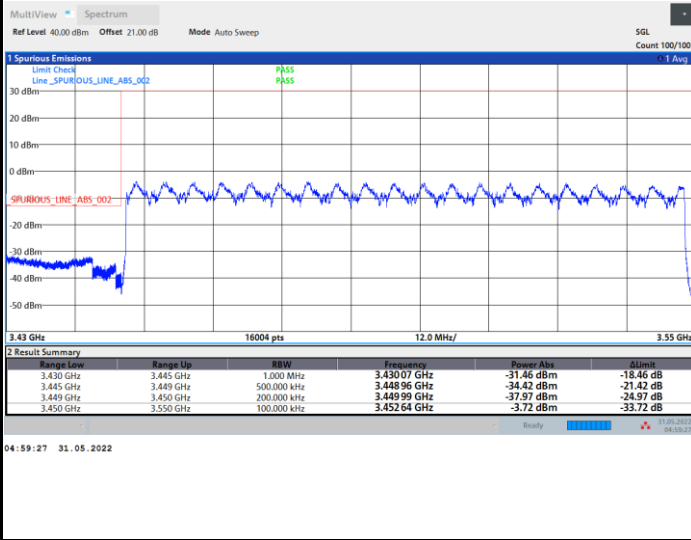




FR1 n77 / 100MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / Full RB

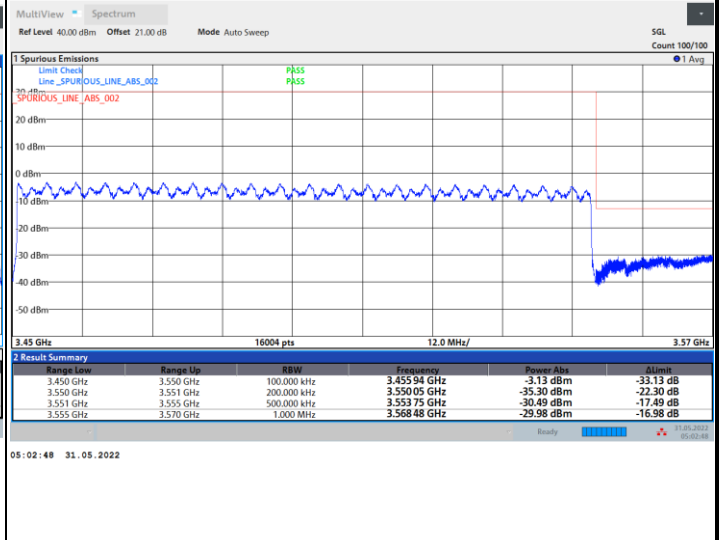
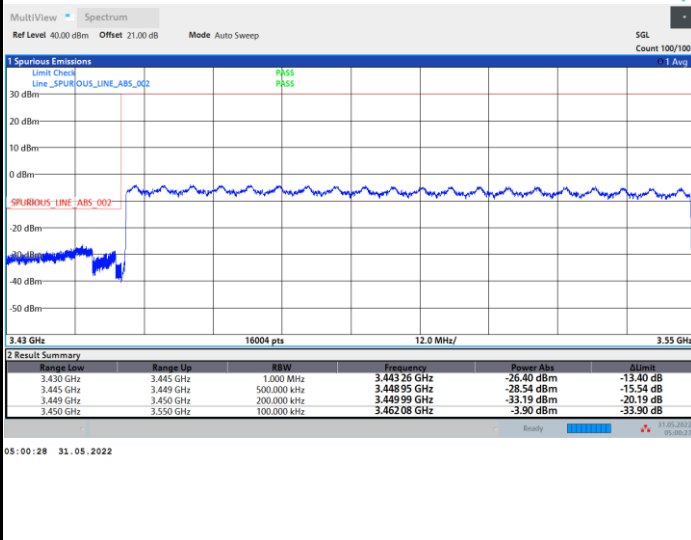
Highest Band Edge / Full RB



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

Lowest Band Edge

Highest Band Edge

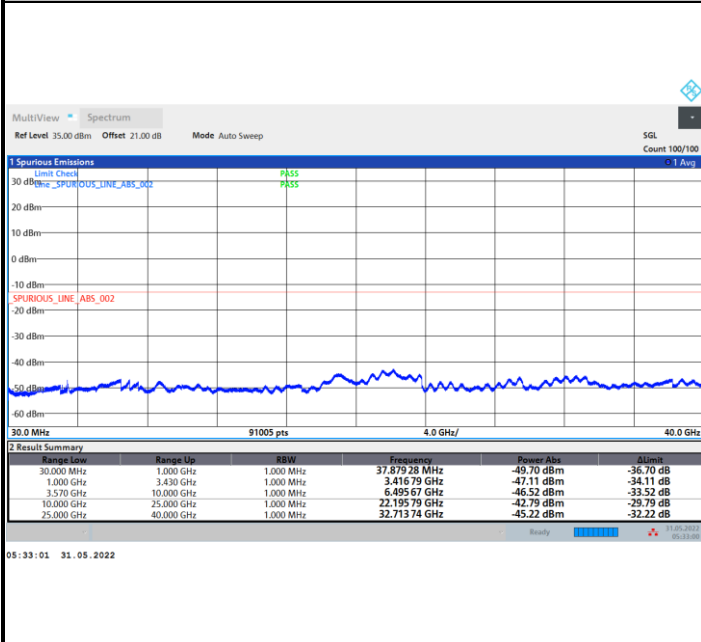




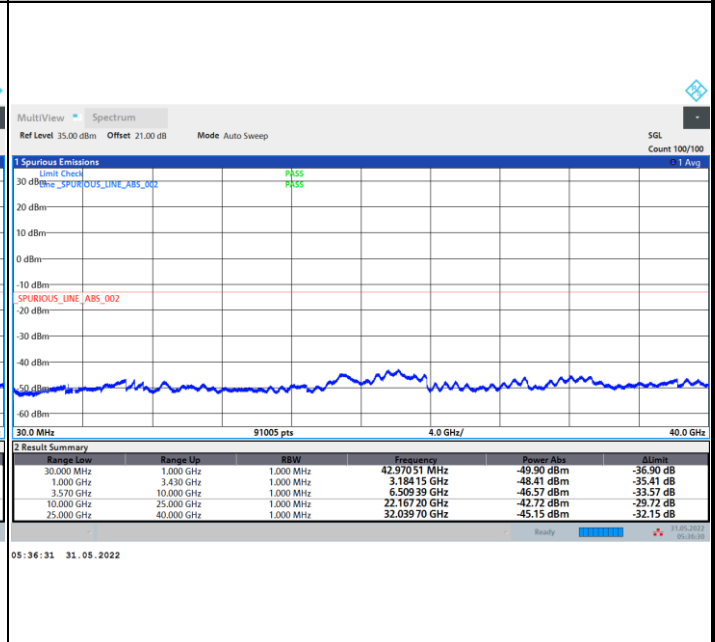
Conducted Spurious Emission

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

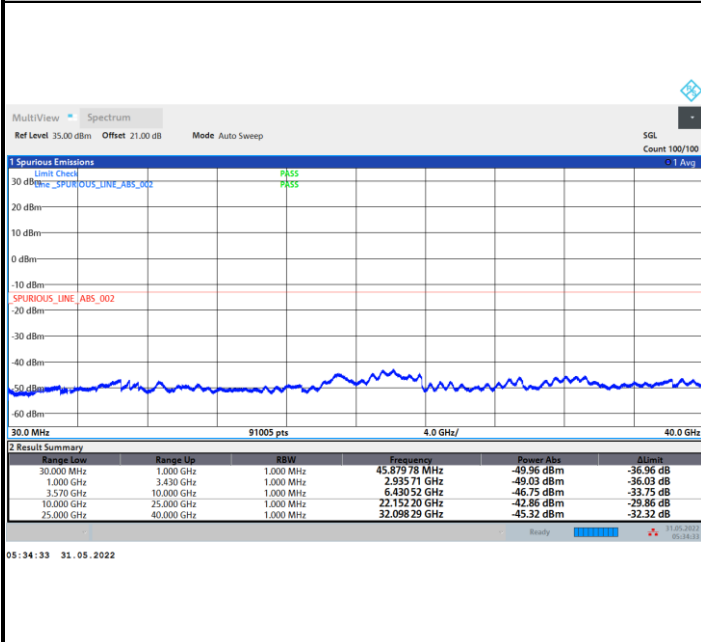
Lowest Channel



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	0.0003	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

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	6903	-42.87	-13	-29.87	-72.28	-51.06	1.84	12.19	H
	10354	-34.08	-13	-21.08	-69.88	-40.56	2.26	10.89	H
	13805	-29.40	-13	-16.40	-73.3	-37.17	2.63	12.56	H
	20708	-63.31	-13	-50.31	-75.21	-75.85	3.22	17.92	H
	24159	-59.62	-13	-46.62	-76.81	-72.18	3.78	18.50	H
	27610	-56.49	-13	-43.49	-76.68	-69.94	3.95	19.54	H
									H
	6903	-42.51	-13	-29.51	-72.42	-50.70	1.84	12.19	V
	10354	-32.26	-13	-19.26	-67.27	-38.74	2.26	10.89	V
	13805	-29.93	-13	-16.93	-72.8	-37.70	2.63	12.56	V
	20708	-63.24	-13	-50.24	-74.9	-75.78	3.22	17.92	V
	24159	-59.55	-13	-46.55	-76.38	-72.11	3.78	18.50	V
	27610	-56.80	-13	-43.80	-76.68	-70.25	3.95	19.54	V
	Middle	6983	-42.57	-13	-29.57	-72.07	-50.45	1.84	11.87
10474		-36.42	-13	-23.42	-72.37	-42.83	2.25	10.82	H
13965		-29.92	-13	-16.92	-73.15	-37.53	2.66	12.43	H
20948		-63.00	-13	-50.00	-74.91	-75.43	3.24	17.82	H
24439		-59.07	-13	-46.07	-76.98	-71.83	3.76	18.66	H
27930		-55.81	-13	-42.81	-76.13	-69.37	3.97	19.67	H
									H
6983		-42.21	-13	-29.21	-71.86	-50.09	1.84	11.87	V
10474		-35.93	-13	-22.93	-71.28	-42.34	2.25	10.82	V
13965		-30.52	-13	-17.52	-73.1	-38.13	2.66	12.43	V
20948		-63.49	-13	-50.49	-75.11	-75.92	3.24	17.82	V
24439		-59.80	-13	-46.80	-77.4	-72.56	3.76	18.66	V
27930		-56.32	-13	-43.32	-76.26	-69.88	3.97	19.67	V



Highest	7063	-42.49	-13	-29.49	-72.24	-50.14	1.84	11.64	H
	10594	-36.09	-13	-23.09	-72.26	-42.44	2.24	10.74	H
	14125	-29.61	-13	-16.61	-72.7	-37.13	2.66	12.33	H
	21188	-61.69	-13	-48.69	-74.18	-74.28	3.29	18.03	H
	24719	-57.56	-13	-44.56	-75.76	-70.25	3.73	18.57	H
	28250	-55.07	-13	-42.07	-75.55	-68.49	3.98	19.55	H
									H
	7063	-42.15	-13	-29.15	-72.08	-49.80	1.84	11.64	V
	10594	-31.08	-13	-18.08	-66.78	-37.43	2.24	10.74	V
	14125	-30.38	-13	-17.38	-73.16	-37.90	2.66	12.33	V
	21188	-63.35	-13	-50.35	-75.54	-75.94	3.29	18.03	V
	24719	-58.28	-13	-45.28	-76.17	-70.97	3.73	18.57	V
	28250	-55.71	-13	-42.71	-75.78	-69.13	3.98	19.55	V
									V

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



<Ant. 4 + Ant. 12>

EN-DC 5A-n77A

EN-DC 5A-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	6903	-43.91	-13	-30.91	-72.32	-52.10	1.84	12.19	H
	10354	-36.33	-13	-23.33	-72.13	-42.81	2.26	10.89	H
	13805	-28.39	-13	-15.39	-72.29	-36.16	2.63	12.56	H
	20708	-63.87	-13	-50.87	-75.77	-76.41	3.22	17.92	H
	24159	-60.47	-13	-47.47	-77.66	-73.03	3.78	18.50	H
	27610	-56.44	-13	-43.44	-76.64	-69.89	3.95	19.54	H
									H
	6903	-42.43	-13	-29.43	-72.34	-50.62	1.84	12.19	V
	10354	-36.09	-13	-23.09	-71.09	-42.57	2.26	10.89	V
	13805	-30.11	-13	-17.11	-72.98	-37.88	2.63	12.56	V
	20708	-63.71	-13	-50.71	-75.37	-76.25	3.22	17.92	V
	24159	-60.51	-13	-47.51	-77.34	-73.07	3.78	18.50	V
	27610	-56.67	-13	-43.67	-76.55	-70.12	3.95	19.54	V
									V
Middle	6983	-42.56	-13	-29.56	-72.05	-50.44	1.84	11.87	H
	10474	-36.17	-13	-23.17	-72.12	-42.58	2.25	10.82	H
	13965	-29.58	-13	-16.58	-72.81	-37.19	2.66	12.43	H
	20941	-63.39	-13	-50.39	-75.3	-75.83	3.24	17.82	H
	24438	-60.09	-13	-47.09	-78	-72.85	3.76	18.66	H
	27930	-56.15	-13	-43.15	-76.47	-69.71	3.97	19.67	H
									H
	6983	-42.19	-13	-29.19	-71.84	-50.07	1.84	11.87	V
	10474	-36.74	-13	-23.74	-72.09	-43.15	2.25	10.82	V
	13965	-30.27	-13	-17.27	-72.85	-37.88	2.66	12.43	V
	20941	-64.01	-13	-51.01	-75.64	-76.45	3.24	17.82	V
	24438	-60.28	-13	-47.28	-77.87	-73.04	3.76	18.66	V
	27930	-56.55	-13	-43.55	-76.48	-70.11	3.97	19.67	V



Highest	7063	-41.92	-13	-28.92	-71.67	-49.57	1.84	11.64	H
	10594	-36.55	-13	-23.55	-72.72	-42.90	2.24	10.74	H
	14125	-29.81	-13	-16.81	-72.9	-37.33	2.66	12.33	H
	21185	-64.55	-13	-51.55	-77.04	-77.13	3.29	18.02	H
	24718	-59.92	-13	-46.92	-78.12	-72.61	3.73	18.57	H
	28250	-56.02	-13	-43.02	-76.5	-69.44	3.98	19.55	H
									H
	7063	-42.29	-13	-29.29	-72.22	-49.94	1.84	11.64	V
	10594	-37.05	-13	-24.05	-72.75	-43.40	2.24	10.74	V
	14125	-30.26	-13	-17.26	-73.04	-37.78	2.66	12.33	V
	21185	-64.89	-13	-51.89	-77.08	-77.47	3.29	18.02	V
	24718	-59.07	-13	-46.07	-76.96	-71.76	3.73	18.57	V
	28250	-55.98	-13	-42.98	-76.05	-69.40	3.98	19.55	V
									V

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