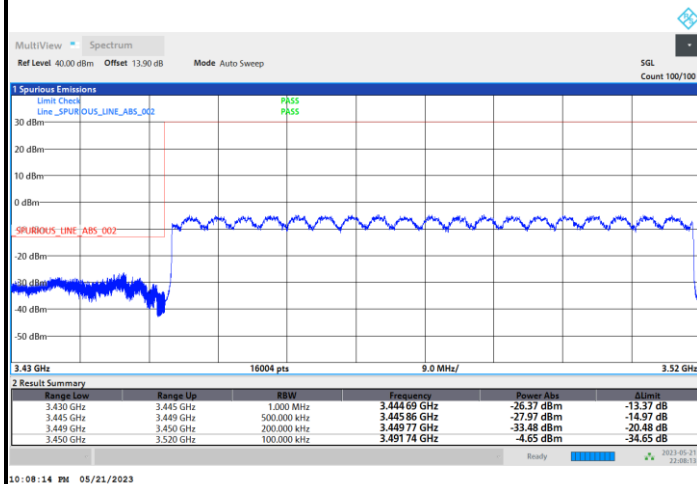


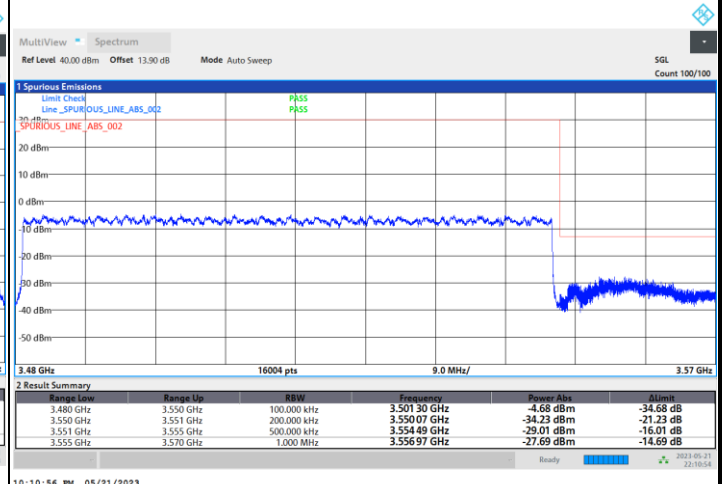


FR1 n77 / 70MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

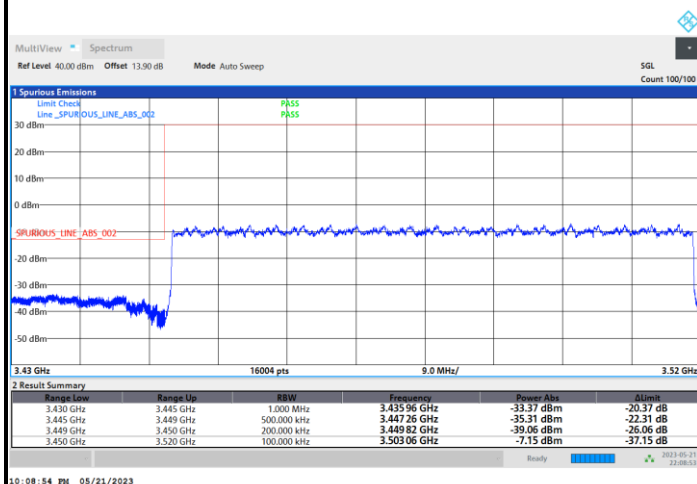


Highest Band Edge / Full RB

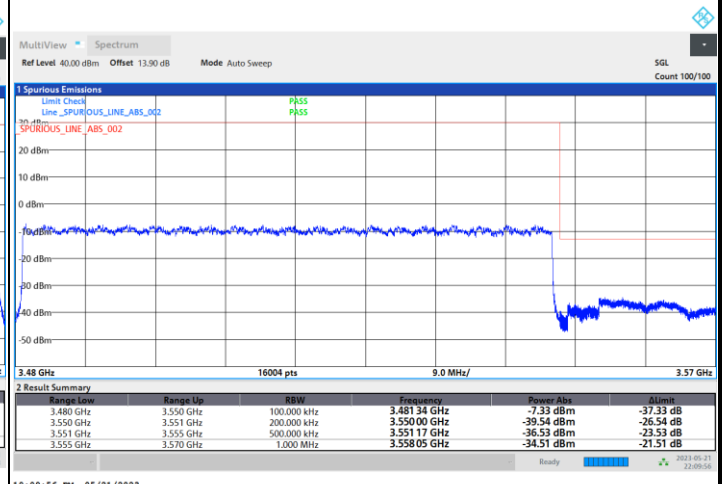


FR1 n77 / 70MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



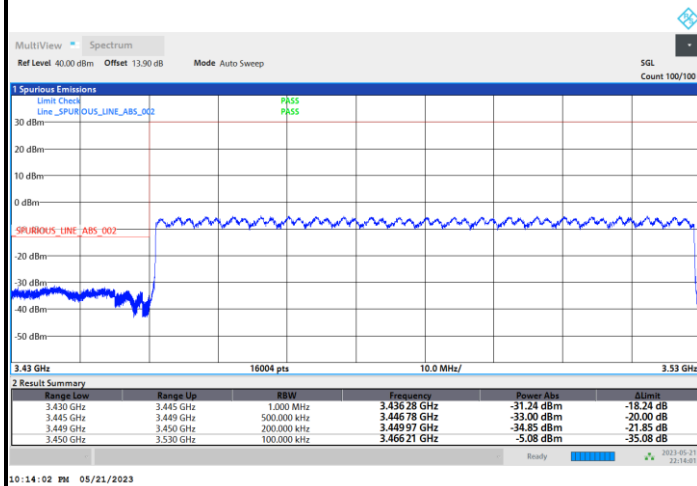
Highest Band Edge / Full RB



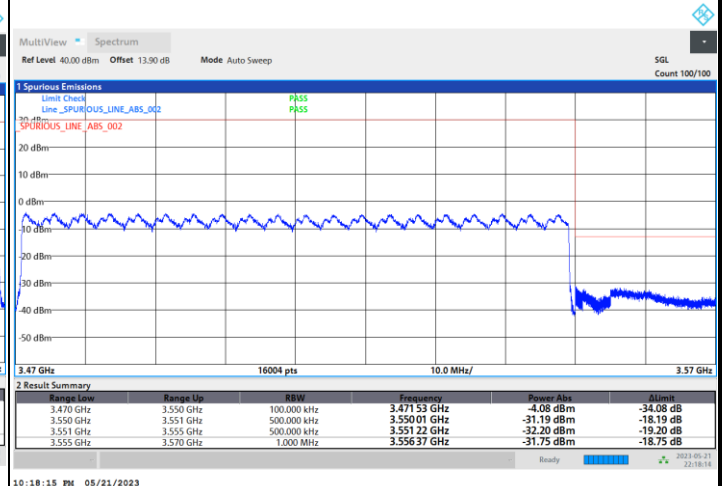


FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

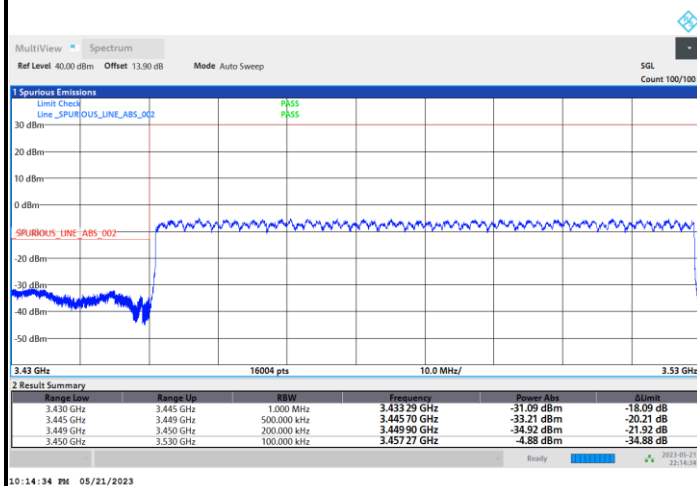


Highest Band Edge / Full RB

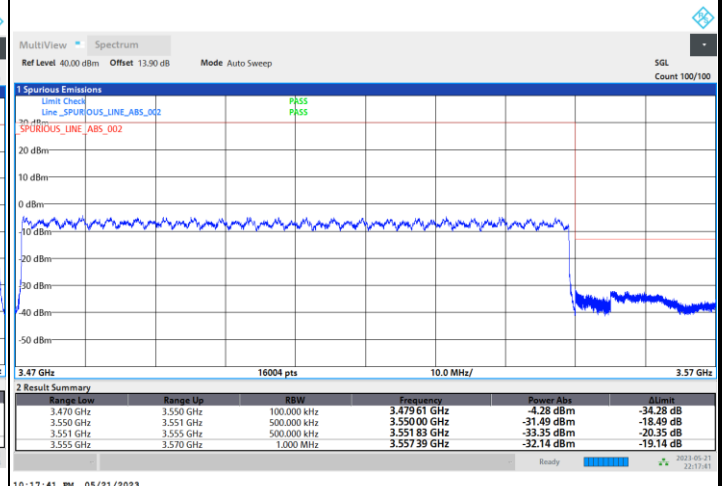


FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



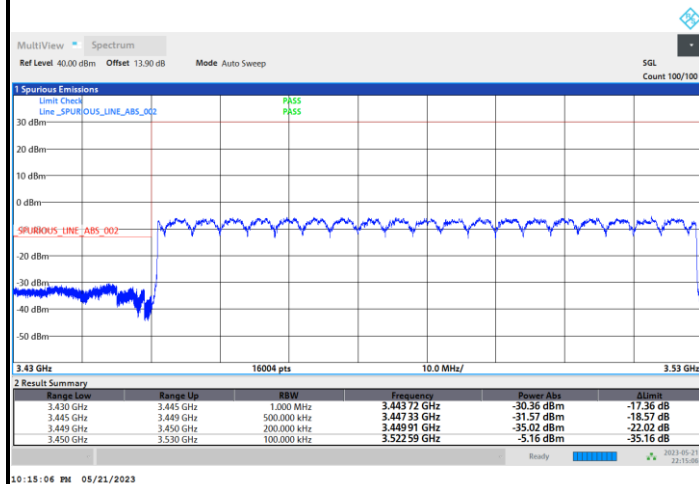
Highest Band Edge / Full RB



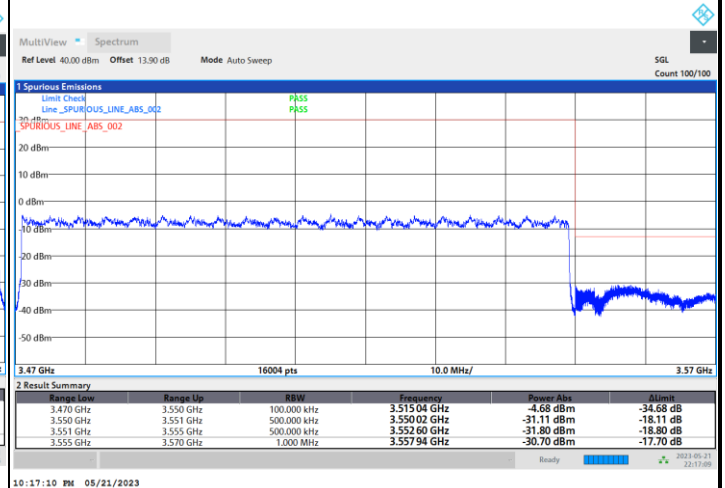


FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

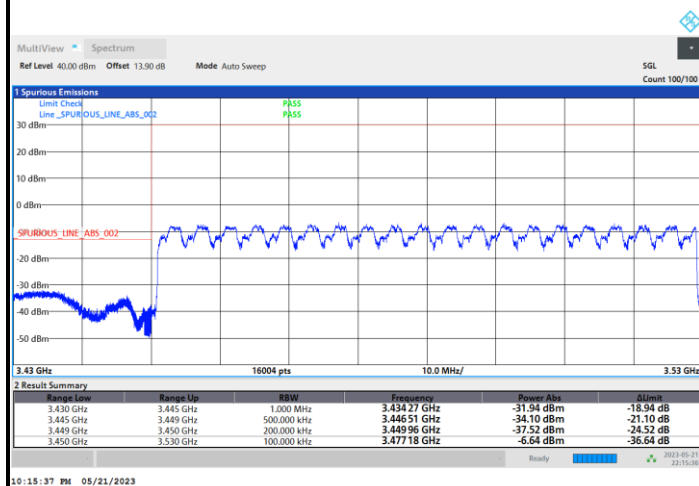


Highest Band Edge / Full RB

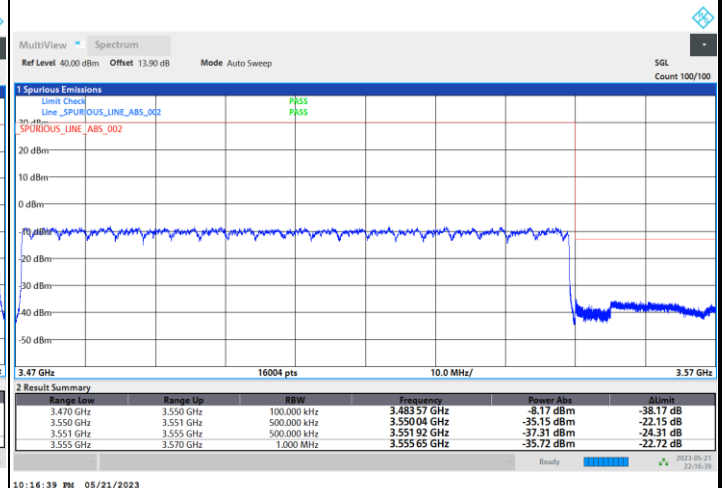


FR1 n77 / 80MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



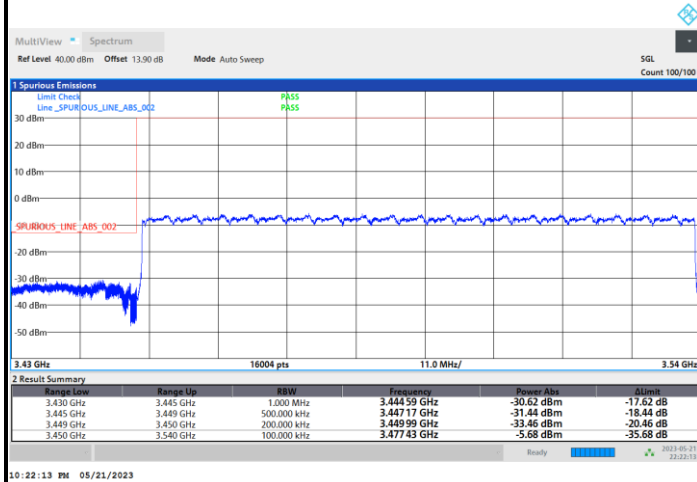
Highest Band Edge / Full RB



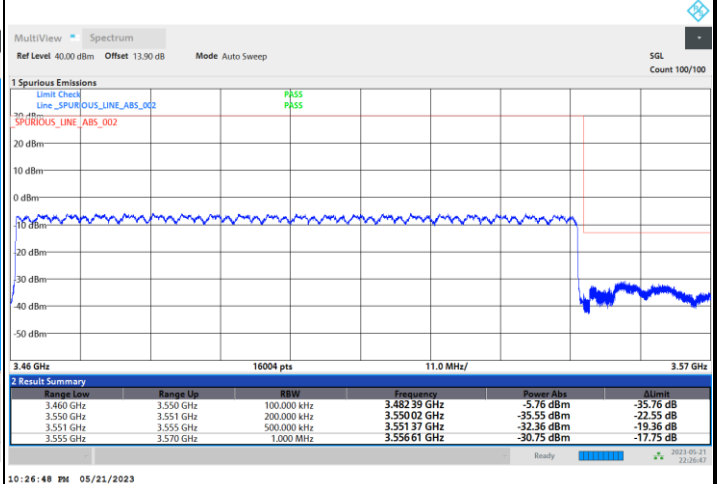


FR1 n77 / 90MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

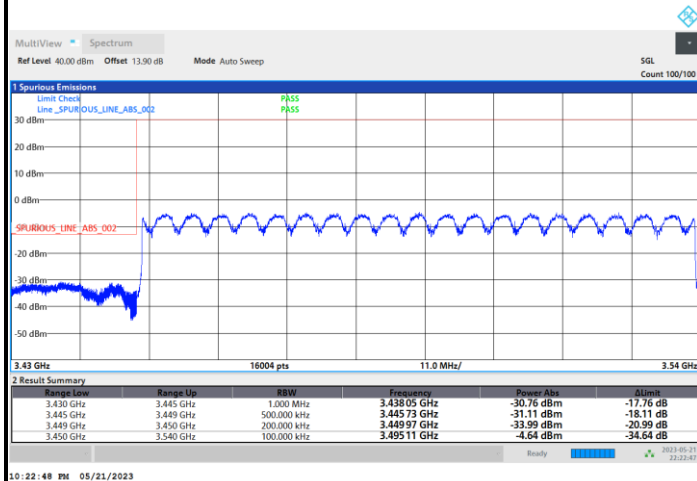


Highest Band Edge / Full RB

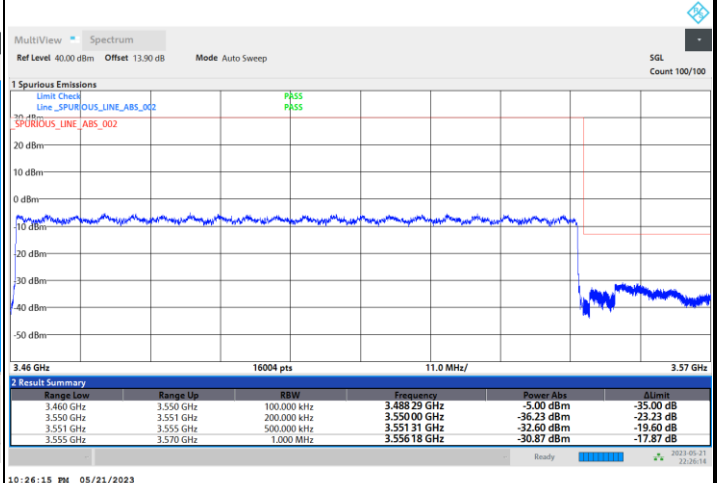


FR1 n77 / 90MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



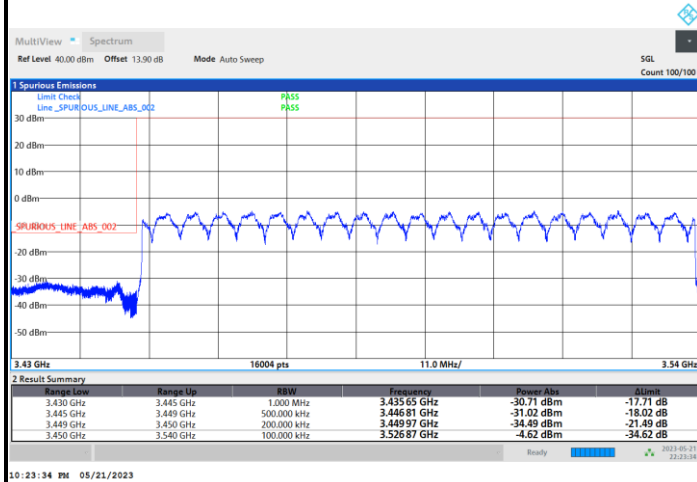
Highest Band Edge / Full RB



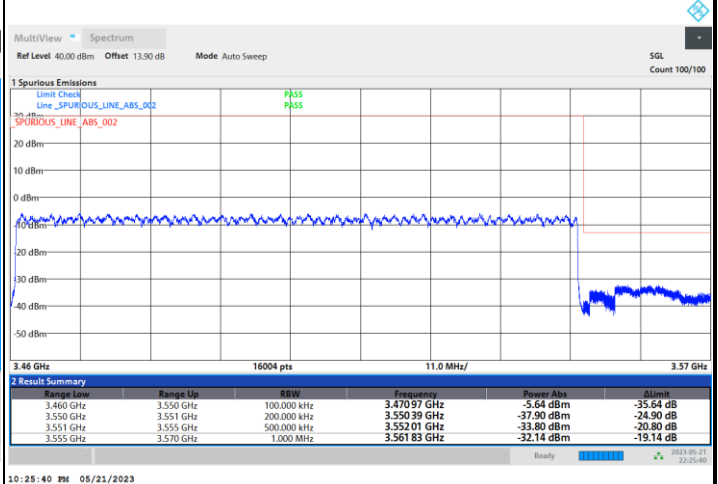


FR1 n77 / 90MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

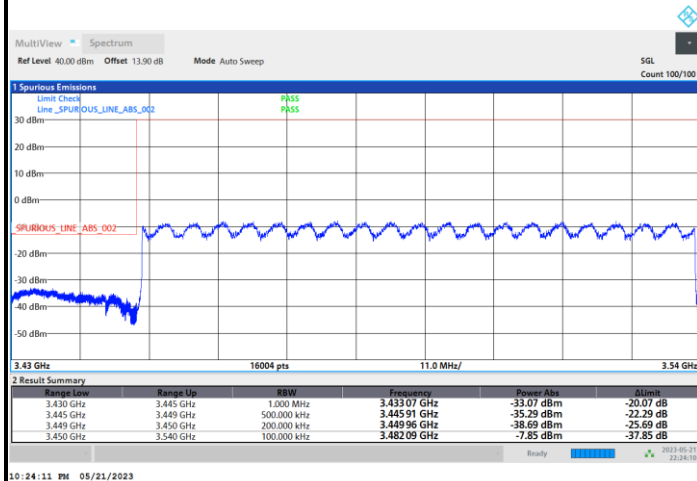


Highest Band Edge / Full RB

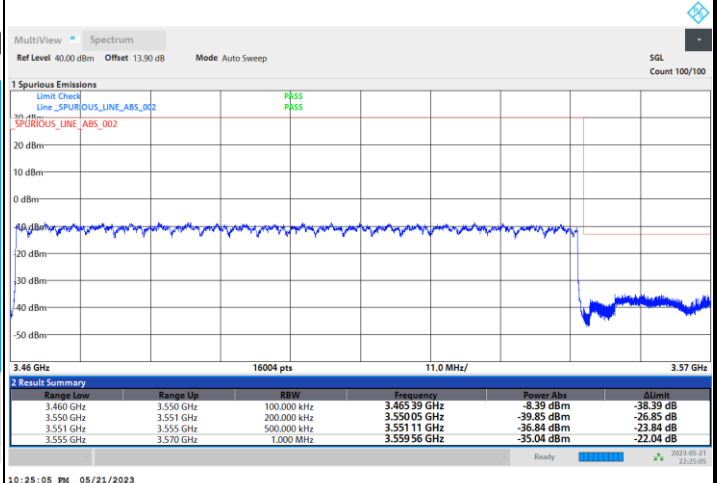


FR1 n77 / 90MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



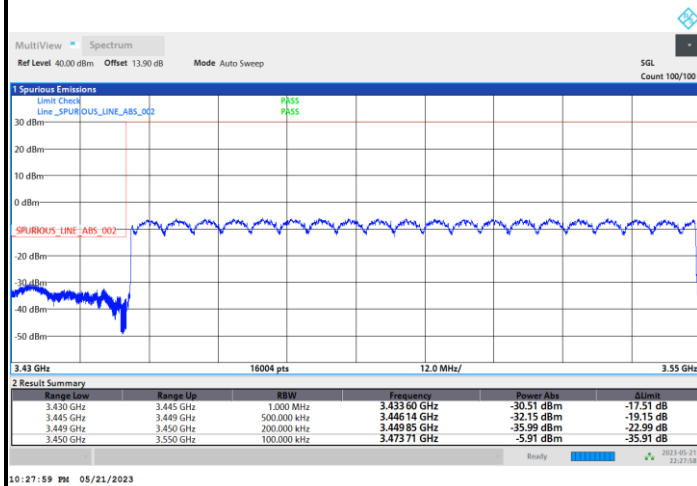
Highest Band Edge / Full RB



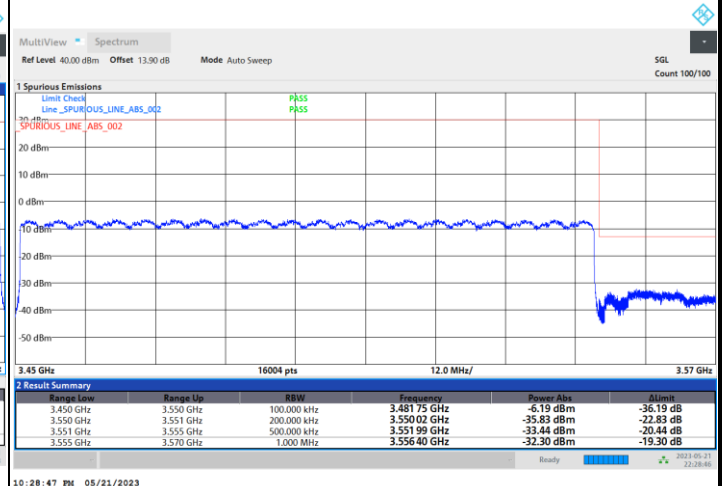


FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

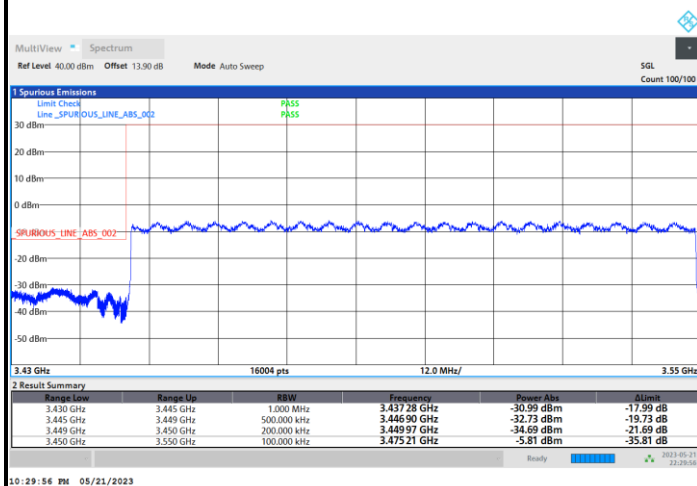


Highest Band Edge / Full RB

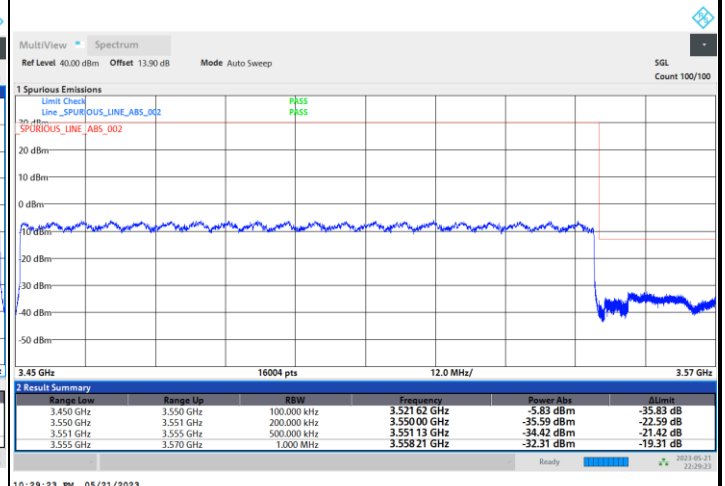


FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



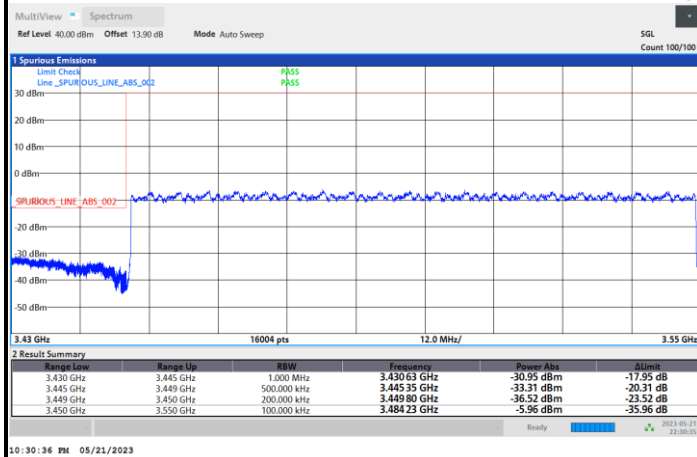
Highest Band Edge / Full RB



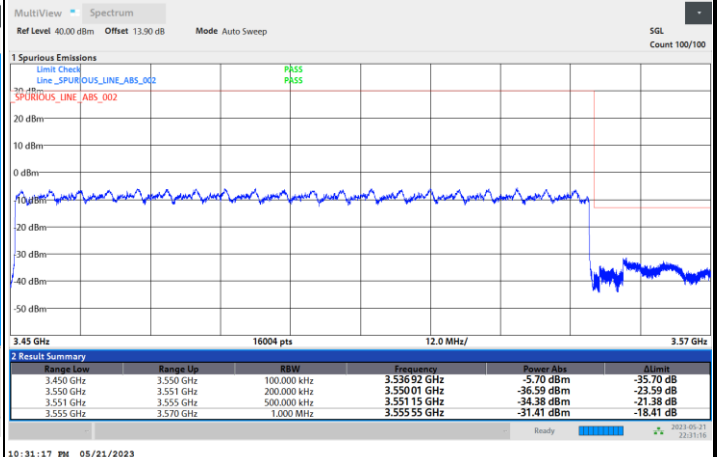


FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

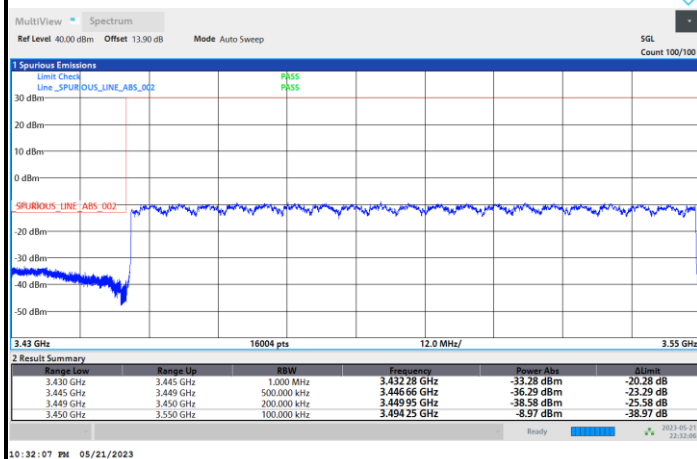


Highest Band Edge / Full RB

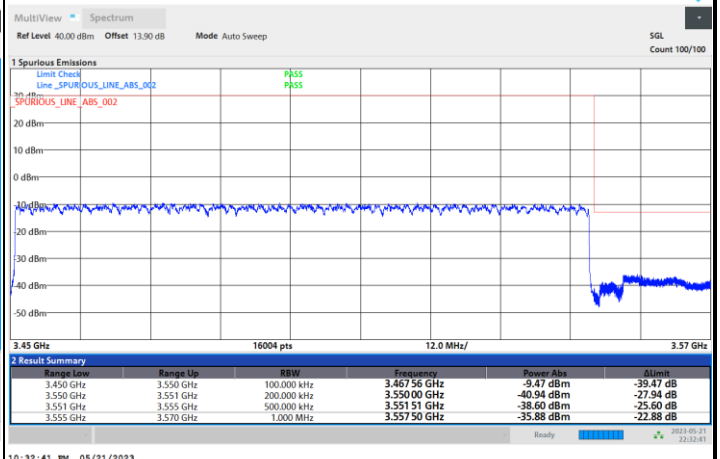


FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

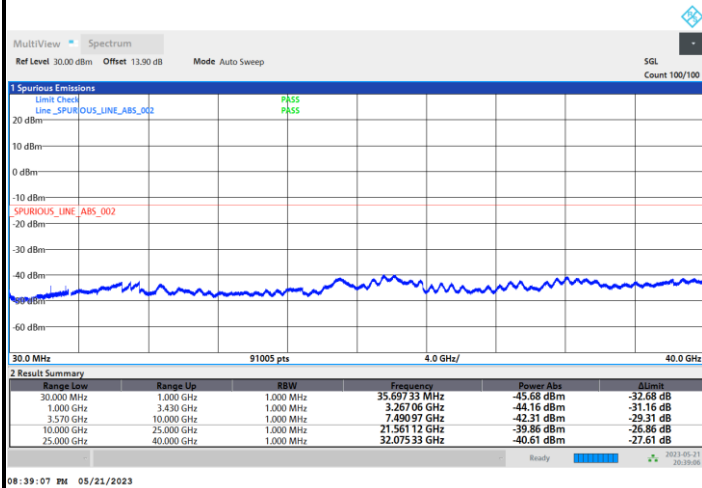




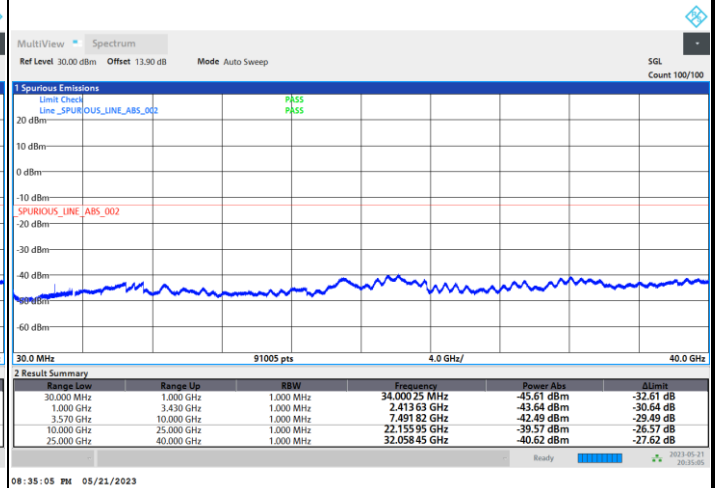
Conducted Spurious Emission

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

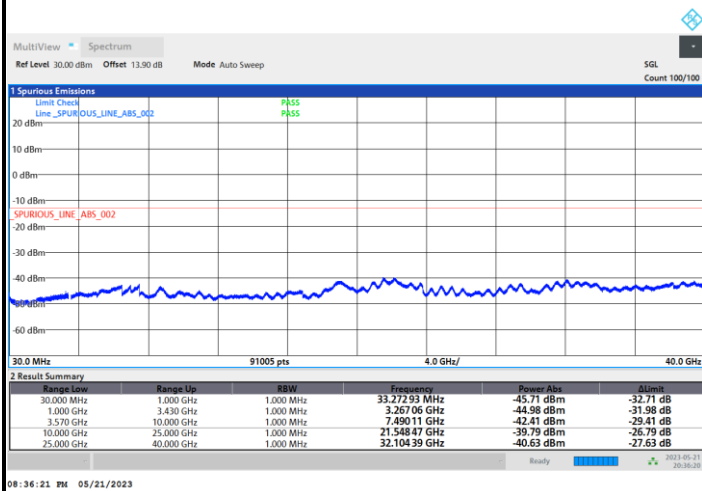
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0004	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.3 V. ; Maximum Voltage = 4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

<Ant. 4>

5G FR1 n77 HPUE

5G FR1 n77 HPUE / 10MHz / 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	6901	-39.30	-13	-26.30	-67.25	-47.50	1.84	12.20	H
	10352	-36.85	-13	-23.85	-70.86	-43.33	2.26	10.89	H
	13803	-30.93	-13	-17.93	-73.46	-38.70	2.63	12.56	H
	20704	-63.55	-13	-50.55	-76.25	-76.10	3.22	17.92	H
	24155	-59.84	-13	-46.84	-76.62	-72.40	3.78	18.49	H
	27606	-57.71	-13	-44.71	-77.39	-71.16	3.95	19.54	H
	6901	-39.64	-13	-26.64	-68.09	-47.84	1.84	12.20	V
	10352	-35.87	-13	-22.87	-69.08	-42.35	2.26	10.89	V
	13803	-31.93	-13	-18.93	-73.42	-39.70	2.63	12.56	V
	20704	-63.13	-13	-50.13	-75.6	-75.68	3.22	17.92	V
	24155	-60.45	-13	-47.45	-76.87	-73.01	3.78	18.49	V
	27606	-57.69	-13	-44.69	-77.04	-71.14	3.95	19.54	V
Middle	6991	-40.14	-13	-27.14	-68.21	-47.99	1.84	11.84	H
	10487	-38.28	-13	-25.28	-72.38	-44.69	2.25	10.81	H
	13983	-32.02	-13	-19.02	-73.78	-39.62	2.67	12.41	H
	20974	-63.37	-13	-50.37	-76.08	-75.79	3.24	17.81	H
	24470	-59.56	-13	-46.56	-76.96	-72.34	3.75	18.68	H
	27966	-57.13	-13	-44.13	-76.6	-70.70	3.97	19.69	H
	6991	-42.40	-13	-29.40	-70.59	-50.25	1.84	11.84	V
	10487	-35.62	-13	-22.62	-69.15	-42.03	2.25	10.81	V
	13983	-32.05	-13	-19.05	-73.19	-39.65	2.67	12.41	V
	20974	-63.47	-13	-50.47	-75.88	-75.89	3.24	17.81	V
	24470	-59.82	-13	-46.82	-76.92	-72.60	3.75	18.68	V
	27966	-58.19	-13	-45.19	-77.26	-71.76	3.97	19.69	V



Highest	7081	-41.96	-13	-28.96	-70.26	-49.57	1.84	11.60	H
	10622	-37.61	-13	-24.61	-71.98	-43.95	2.24	10.73	H
	14163	-31.95	-13	-18.95	-73.65	-39.45	2.65	12.30	H
	21244	-62.86	-13	-49.86	-76.33	-75.50	3.30	18.09	H
	24785	-59.76	-13	-46.76	-77.24	-72.42	3.72	18.53	H
	28326	-57.08	-13	-44.08	-76.57	-70.45	3.98	19.50	H
	7081	-43.57	-13	-30.57	-72.08	-51.18	1.84	11.60	V
	10622	-35.39	-13	-22.39	-69.33	-41.73	2.24	10.73	V
	14163	-32.10	-13	-19.10	-73.57	-39.60	2.65	12.30	V
	21244	-63.01	-13	-50.01	-76.18	-75.65	3.30	18.09	V
	24785	-60.13	-13	-47.13	-77.29	-72.79	3.72	18.53	V
	28326	-57.37	-13	-44.37	-76.45	-70.74	3.98	19.50	V

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



MIMO <Ant. 4+6>

5G FR1 n77 HPUE

5G FR1 n77_HPUE / 10MHz / QPSK									
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	6901	-43.19	-13	-30.19	-71.14	-51.39	1.84	12.20	H
	10352	-37.84	-13	-24.84	-71.85	-44.32	2.26	10.89	H
	13803	-31.57	-13	-18.57	-74.1	-39.34	2.63	12.56	H
	20704	-63.62	-13	-50.62	-76.32	-76.17	3.22	17.92	H
	24155	-59.89	-13	-46.89	-76.67	-72.45	3.78	18.49	H
	27606	-57.77	-13	-44.77	-77.45	-71.22	3.95	19.54	H
	6901	-43.28	-13	-30.28	-71.73	-51.48	1.84	12.20	V
	10352	-38.85	-13	-25.85	-72.06	-45.33	2.26	10.89	V
	13803	-32.02	-13	-19.02	-73.51	-39.79	2.63	12.56	V
	20704	-63.96	-13	-50.96	-76.43	-76.51	3.22	17.92	V
	24155	-60.62	-13	-47.62	-77.04	-73.18	3.78	18.49	V
	27606	-57.90	-13	-44.90	-77.27	-71.35	3.95	19.54	V
Middle	6991	-44.63	-13	-31.63	-72.58	-52.48	1.84	11.84	H
	10487	-38.08	-13	-25.08	-72.09	-44.49	2.25	10.81	H
	13983	-30.80	-13	-17.80	-73.33	-38.40	2.67	12.41	H
	20974	-63.53	-13	-50.53	-76.24	-75.95	3.24	17.81	H
	24470	-59.75	-13	-46.75	-77.15	-72.53	3.75	18.68	H
	27966	-57.13	-13	-44.13	-76.6	-70.70	3.97	19.69	H
	6991	-44.08	-13	-31.08	-72.53	-51.93	1.84	11.84	V
	10487	-38.83	-13	-25.83	-72.04	-45.24	2.25	10.81	V
	13983	-31.96	-13	-18.96	-73.45	-39.56	2.67	12.41	V
	20974	-63.19	-13	-50.19	-75.6	-75.61	3.24	17.81	V
	24470	-60.13	-13	-47.13	-77.23	-72.91	3.75	18.68	V
	27966	-57.38	-13	-44.38	-76.45	-70.95	3.97	19.69	V



Highest	7081	-43.05	-13	-30.05	-71.35	-50.66	1.84	11.60	H
	10622	-38.04	-13	-25.04	-72.41	-44.38	2.24	10.73	H
	14163	-31.27	-13	-18.27	-72.97	-38.77	2.65	12.30	H
	21244	-62.66	-13	-49.66	-76.13	-75.30	3.30	18.09	H
	24785	-59.93	-13	-46.93	-77.41	-72.59	3.72	18.53	H
	28326	-57.11	-13	-44.11	-76.6	-70.48	3.98	19.50	H
	7081	-41.93	-13	-28.93	-70.44	-49.54	1.84	11.60	V
	10622	-38.46	-13	-25.46	-72.4	-44.80	2.24	10.73	V
	14163	-31.84	-13	-18.84	-73.31	-39.34	2.65	12.30	V
	21244	-63.32	-13	-50.32	-76.49	-75.96	3.30	18.09	V
	24785	-59.77	-13	-46.77	-76.93	-72.43	3.72	18.53	V
	28326	-57.33	-13	-44.33	-76.41	-70.70	3.98	19.50	V

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