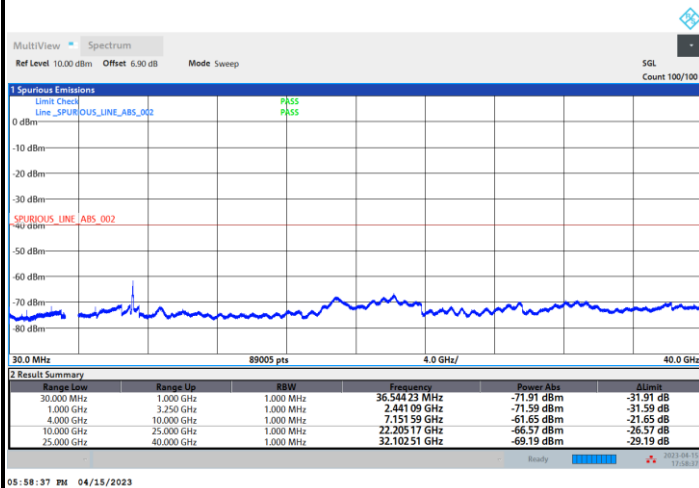


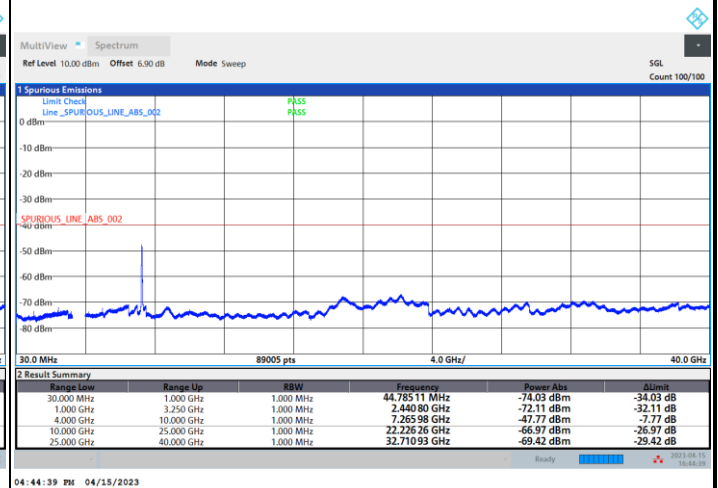


FR1 n48 / 40MHz / QPSK / CSE

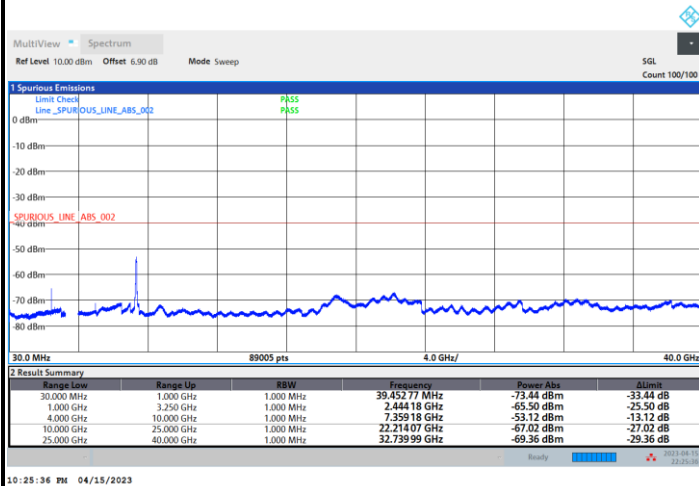
Lowest Channel



Middle Channel



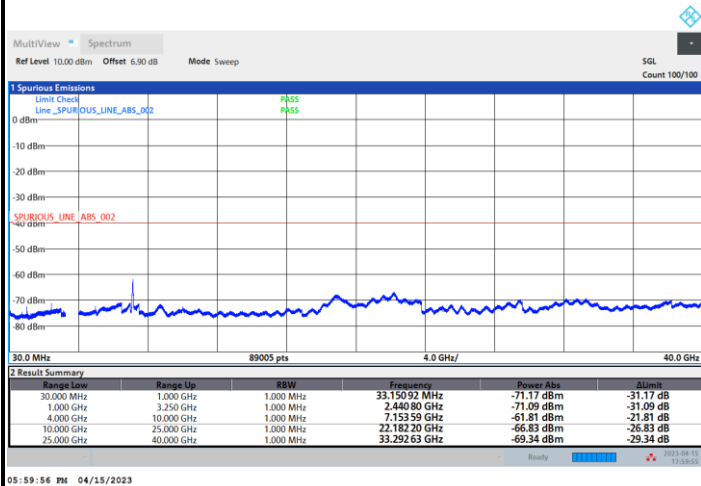
Highest Channel



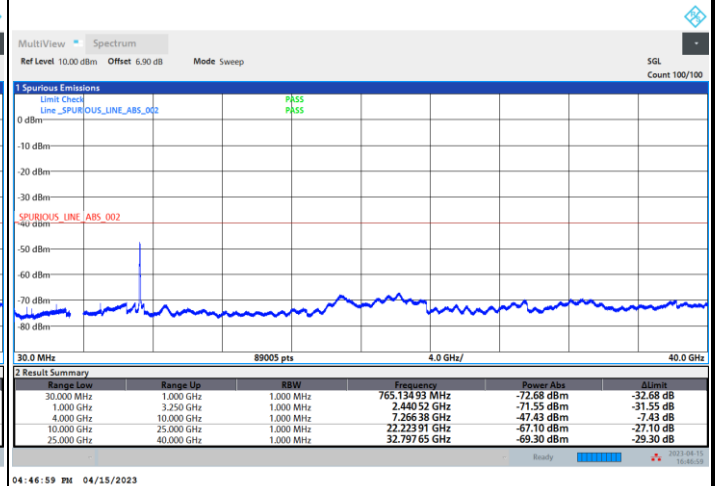


FR1 n48 / 40MHz / 64QM / CSE

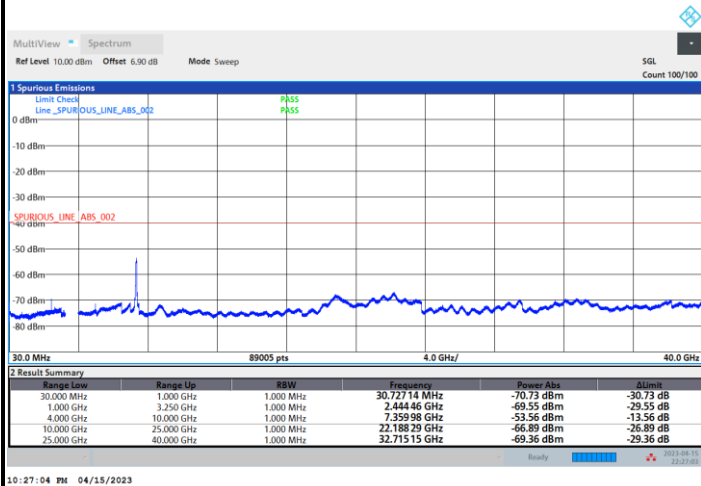
Lowest Channel



Middle Channel



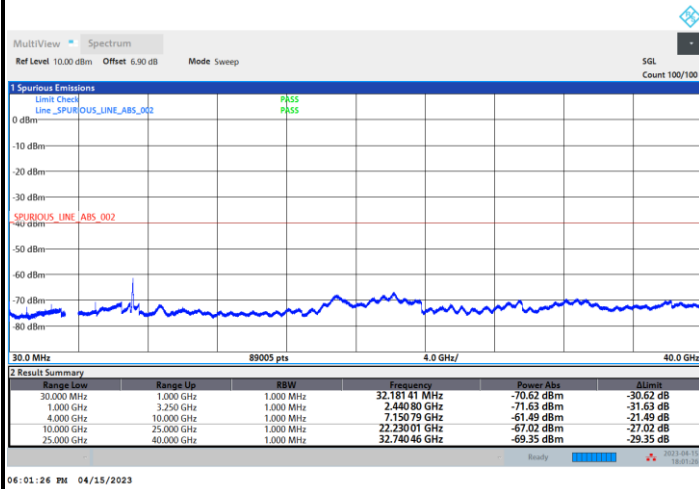
Highest Channel



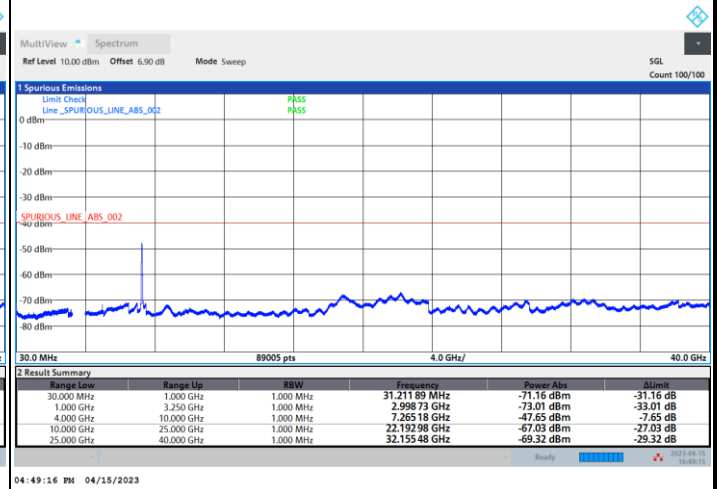


FR1 n48 / 40MHz / 256QAM / CSE

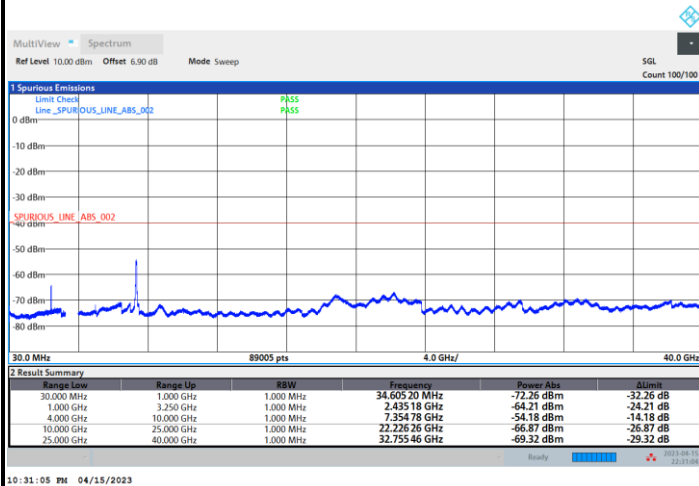
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Frequency offset (ppm)	Result
50	Normal Voltage	0.2207	PASS
40	Normal Voltage	0.6621	
30	Normal Voltage	0.6621	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	2.4276	
0	Normal Voltage	0.8276	
-10	Normal Voltage	2.1517	
-20	Normal Voltage	1.5448	
-30	Normal Voltage	0.2207	
20	Maximum Voltage	1.1586	
20	Normal Voltage	0.8276	
20	Minimum Voltage	1.9310	

Note:

1. Normal Voltage = 48 V. ; Minimum Voltage = 43.2 V. ; Maximum Voltage = 57 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

MIMO <Ant. 1+2>

5G NR n48

5G NR n48 / 40MHz / 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	7140	-52.46	-40	-12.46	-50.04	-62.07	1.84	11.45	H
	10710	-54.37	-40	-14.37	-55.93	-62.81	2.23	10.67	H
	14280	-50.53	-40	-10.53	-58.25	-60.12	2.64	12.23	H
	21420	-63.30	-40	-23.30	-75.51	-78.25	3.35	18.30	H
	24990	-59.99	-40	-19.99	-77.35	-74.69	3.70	18.41	H
	28560	-56.88	-40	-16.88	-76.58	-72.28	3.99	19.39	H
	7140	-52.21	-40	-12.21	-50.09	-61.82	1.84	11.45	V
	10710	-54.77	-40	-14.77	-55.97	-63.21	2.23	10.67	V
	14280	-50.36	-40	-10.36	-58.11	-59.95	2.64	12.23	V
	21420	-63.41	-40	-23.41	-75.32	-78.36	3.35	18.30	V
	24990	-60.06	-40	-20.06	-77.1	-74.76	3.70	18.41	V
	28560	-57.29	-40	-17.29	-76.56	-72.69	3.99	19.39	V
Middle	7250	-49.87	-40	-9.87	-47.72	-59.33	1.87	11.33	H
	10875	-53.74	-40	-13.74	-55.6	-62.10	2.21	10.58	H
	14500	-50.61	-40	-10.61	-58.43	-60.09	2.62	12.10	H
	21750	-62.43	-40	-22.43	-75.24	-77.64	3.44	18.65	H
	25375	-59.29	-40	-19.29	-76.79	-74.35	3.79	18.85	H
	29000	-56.11	-40	-16.11	-76.36	-71.41	4.00	19.30	H
	7250	-49.59	-40	-9.59	-47.76	-59.05	1.87	11.33	V
	10875	-53.73	-40	-13.73	-55.38	-62.09	2.21	10.58	V
	14500	-49.23	-40	-9.23	-57.56	-58.71	2.62	12.10	V
	21750	-62.87	-40	-22.87	-75.34	-78.08	3.44	18.65	V
	25375	-59.34	-40	-19.34	-76.56	-74.40	3.79	18.85	V
	29000	-56.60	-40	-16.60	-76.44	-71.90	4.00	19.30	V



Highest	7360	-48.94	-40	-8.94	-47.21	-58.40	1.92	11.38	H
	11040	-53.99	-40	-13.99	-56.19	-62.32	2.22	10.55	H
	14720	-50.06	-40	-10.06	-58.15	-60.05	2.59	12.58	H
	18400	-63.15	-40	-23.15	-72.52	-77.51	3.24	17.60	H
	22080	-61.61	-40	-21.61	-74.89	-76.98	3.51	18.88	H
	25760	-58.83	-40	-18.83	-76.57	-74.00	3.88	19.05	H
	7360	-45.51	-40	-5.51	-43.91	-54.97	1.92	11.38	V
	11040	-54.29	-40	-14.29	-56.42	-62.62	2.22	10.55	V
	14720	-47.22	-40	-7.22	-56.25	-57.21	2.59	12.58	V
	18400	-61.82	-40	-21.82	-70.95	-76.18	3.24	17.60	V
	22080	-61.83	-40	-21.83	-74.73	-77.20	3.51	18.88	V
	25760	-57.92	-40	-17.92	-75.37	-73.09	3.88	19.05	V

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

**5G NR n48**

5G NR n48 / 20MHz / 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	7120	-50.63	-40	-10.63	-48.18	-60.29	1.84	11.50	H
	10680	-55.49	-40	-15.49	-57.01	-63.95	2.23	10.69	H
	14240	-50.40	-40	-10.40	-58.11	-60.01	2.65	12.26	H
	21360	-63.02	-40	-23.02	-75.06	-77.92	3.33	18.23	H
	24920	-60.06	-40	-20.06	-77.39	-74.80	3.71	18.45	H
	28480	-56.76	-40	-16.76	-76.36	-72.18	3.99	19.41	H
	7120	-49.92	-40	-9.92	-47.74	-59.58	1.84	11.50	V
	10680	-55.26	-40	-15.26	-56.39	-63.72	2.23	10.69	V
	14240	-51.72	-40	-11.72	-59.38	-61.33	2.65	12.26	V
	21360	-63.06	-40	-23.06	-74.79	-77.96	3.33	18.23	V
	24920	-59.82	-40	-19.82	-76.83	-74.56	3.71	18.45	V
	28400	-57.07	-40	-17.07	-76.26	-72.54	3.99	19.46	V
Middle	7250	-44.91	-40	-4.91	-42.76	-54.37	1.87	11.33	H
	10875	-53.91	-40	-13.91	-55.77	-62.27	2.21	10.58	H
	14500	-50.40	-40	-10.40	-58.22	-59.88	2.62	12.10	H
	21750	-62.74	-40	-22.74	-75.55	-77.95	3.44	18.65	H
	25375	-58.96	-40	-18.96	-76.46	-74.02	3.79	18.85	H
	29000	-55.58	-40	-15.58	-75.83	-70.88	4.00	19.30	H
	7250	-45.07	-40	-5.07	-43.24	-54.53	1.87	11.33	V
	10875	-53.77	-40	-13.77	-55.42	-62.13	2.21	10.58	V
	14500	-48.01	-40	-8.01	-56.34	-57.49	2.62	12.10	V
	21750	-63.12	-40	-23.12	-75.59	-78.33	3.44	18.65	V
	25375	-59.55	-40	-19.55	-76.77	-74.61	3.79	18.85	V
	29000	-56.35	-40	-16.35	-76.19	-71.65	4.00	19.30	V



Highest	7380	-42.57	-40	-2.57	-40.84	-52.03	1.93	11.39	H
	11070	-54.70	-40	-14.70	-57	-63.06	2.23	10.58	H
	14760	-50.34	-40	-10.34	-58.47	-60.42	2.59	12.67	H
	18450	-60.30	-40	-20.30	-69.78	-74.66	3.24	17.60	H
	22140	-62.29	-40	-22.29	-75.66	-77.64	3.52	18.87	H
	25830	-59.02	-40	-19.02	-76.82	-74.19	3.90	19.07	H
	7380	-41.81	-40	-1.81	-40.21	-51.27	1.93	11.39	V
	11070	-54.48	-40	-14.48	-56.72	-62.84	2.23	10.58	V
	14760	-42.09	-40	-2.09	-51.24	-52.17	2.59	12.67	V
	18450	-61.39	-40	-21.39	-70.63	-75.75	3.24	17.60	V
	22140	-62.52	-40	-22.52	-75.5	-77.87	3.52	18.87	V
	25830	-59.48	-40	-19.48	-76.98	-74.65	3.90	19.07	V

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