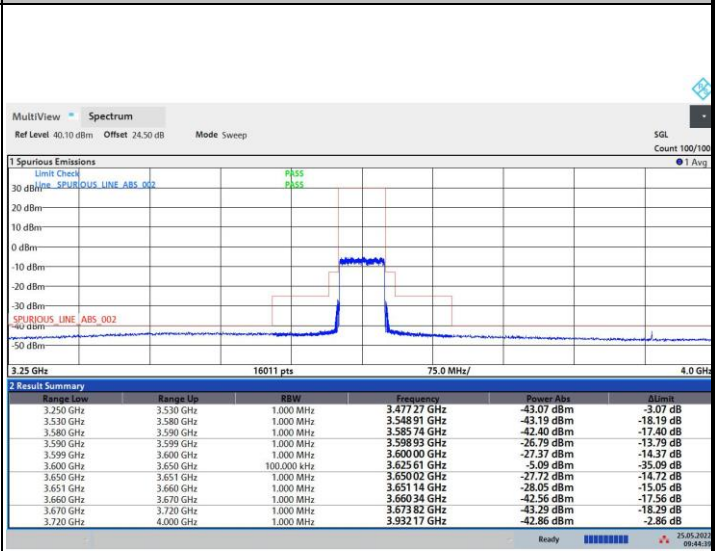
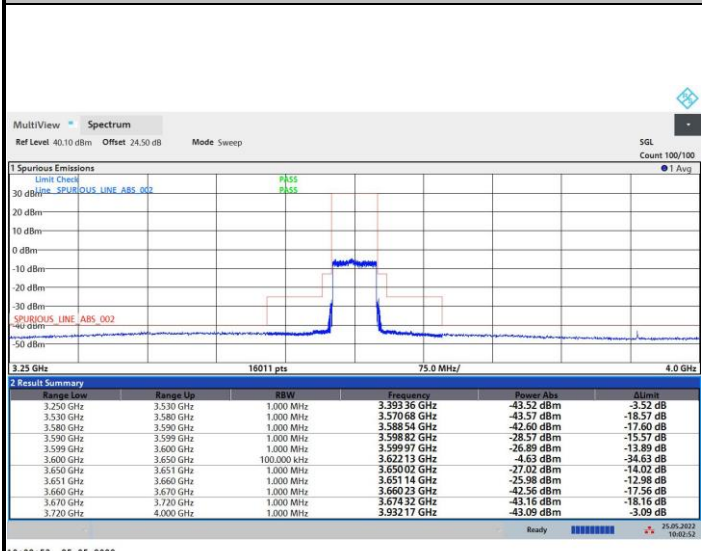




FR1 n48 / 50MHz / Middle Channel / MASK

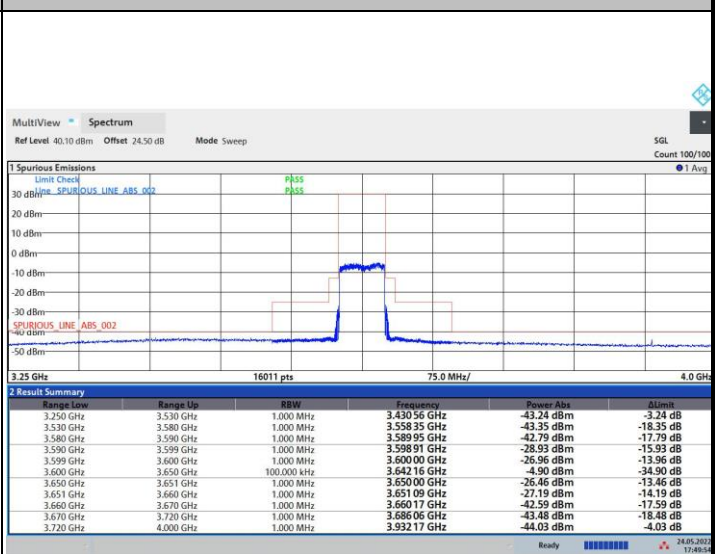
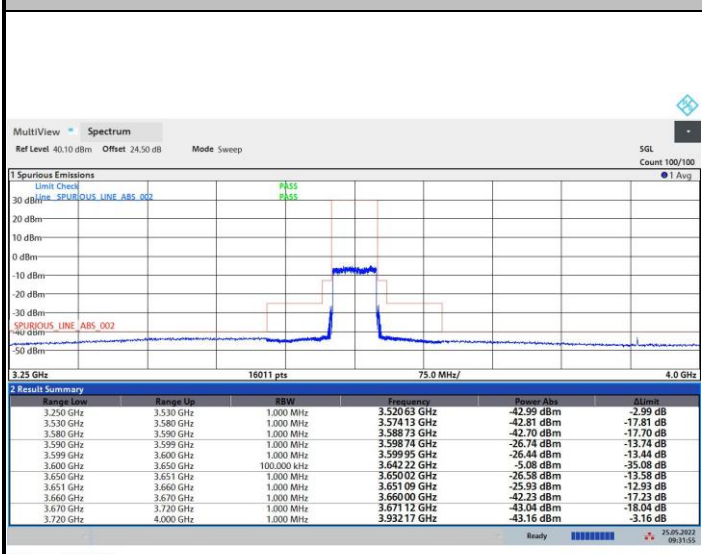
QPSK

16QAM



64QAM

256QAM

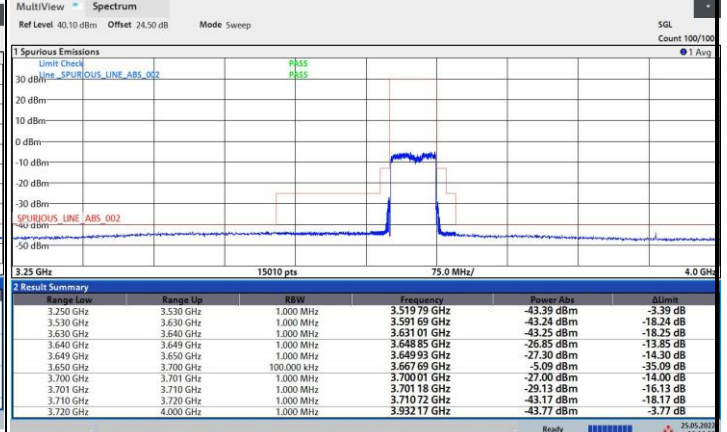
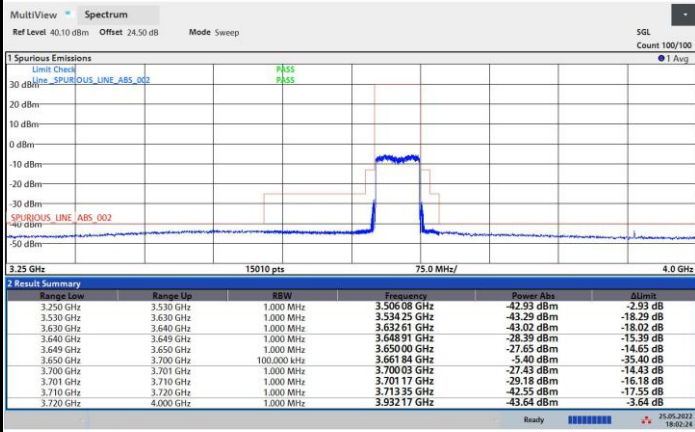




FR1 n48 / 50MHz / Highest Channel / MASK

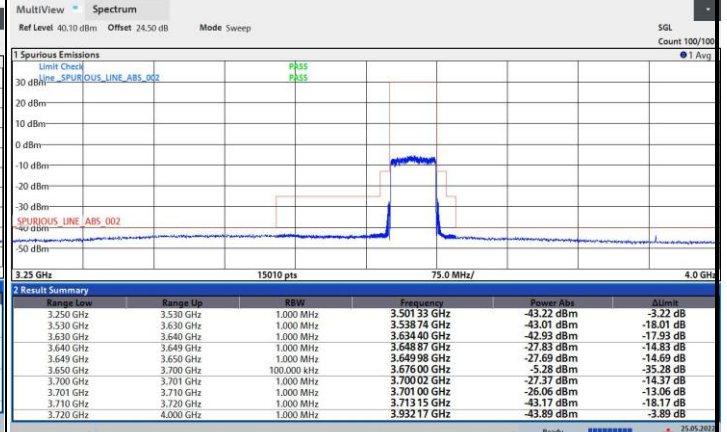
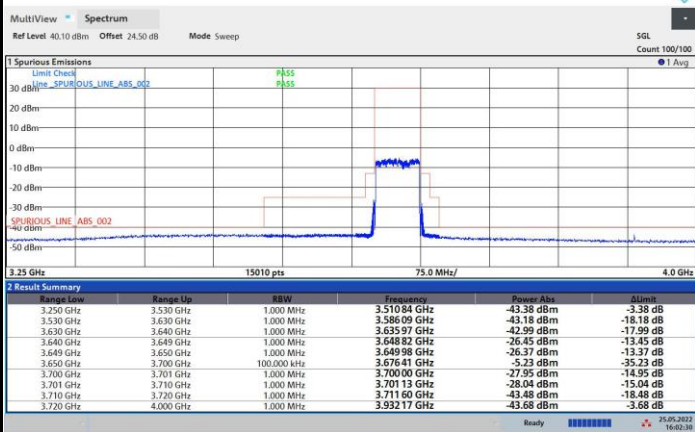
QPSK

16QAM



64QAM

256QAM

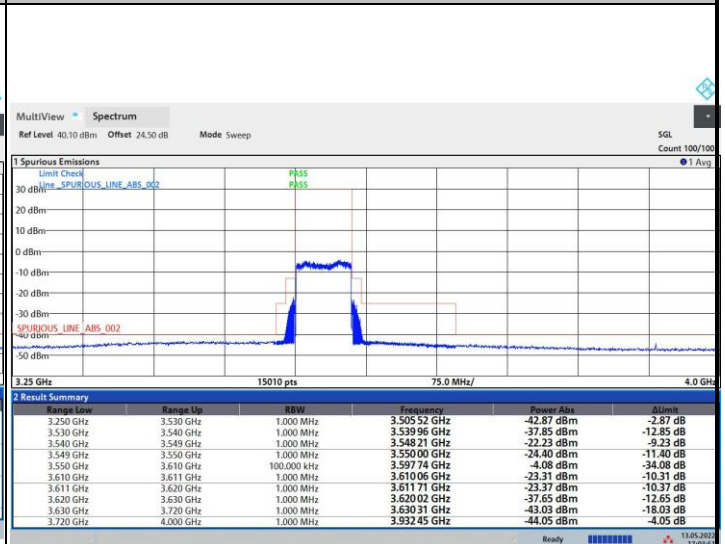
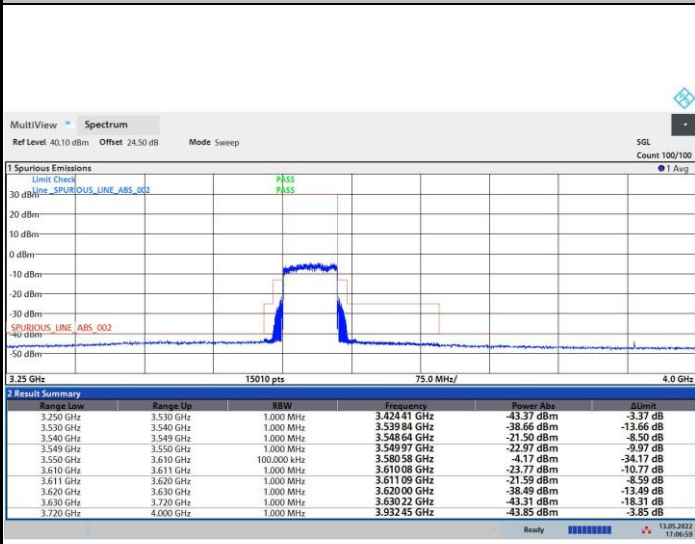




FR1 n48 / 60MHz / Lowest Channel / MASK

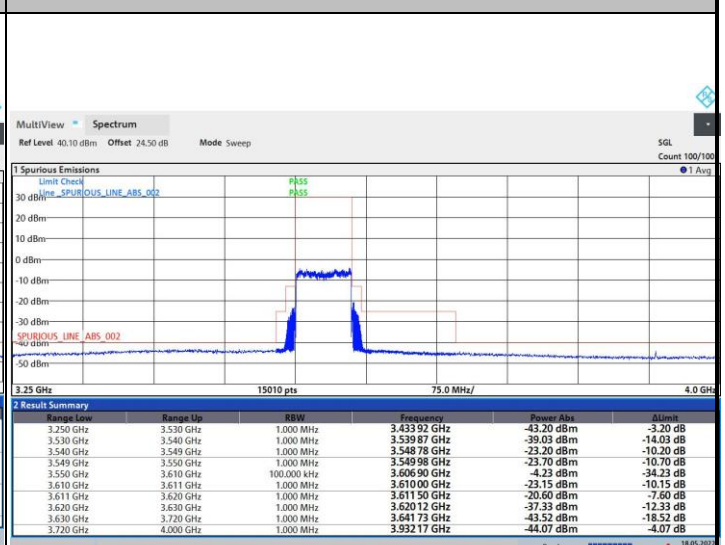
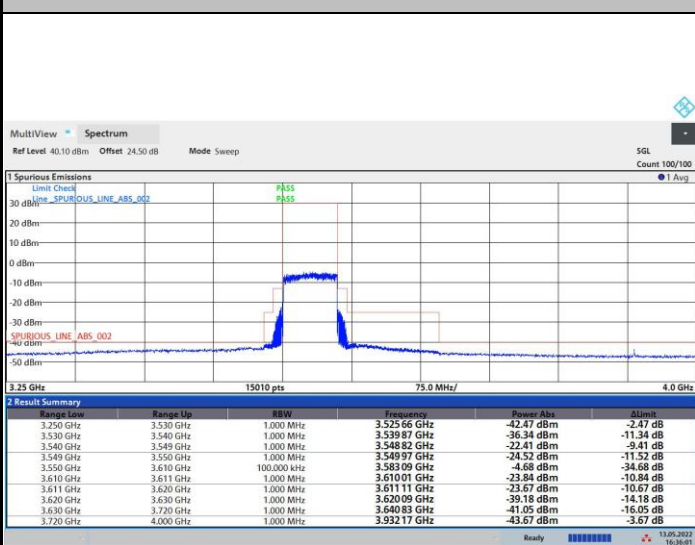
QPSK

16QAM



64QAM

256QAM

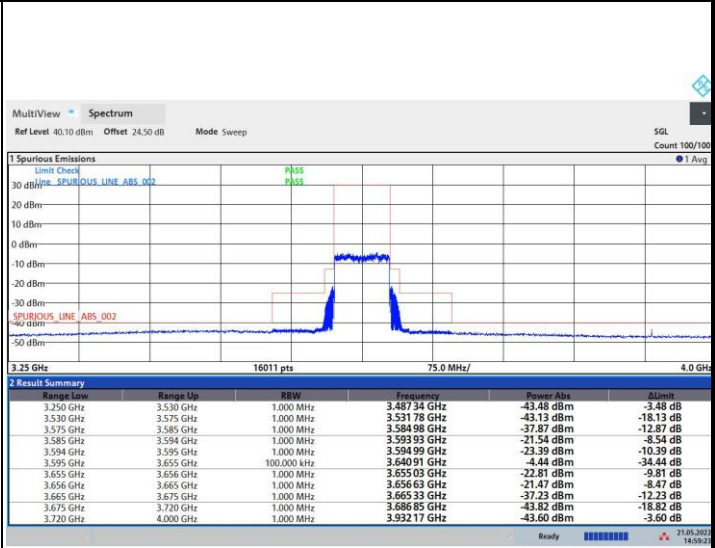
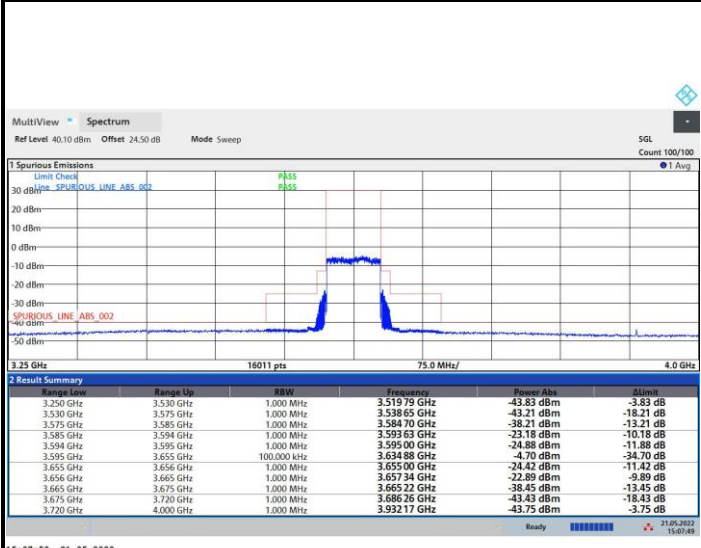




FR1 n48 / 60MHz / Middle Channel / MASK

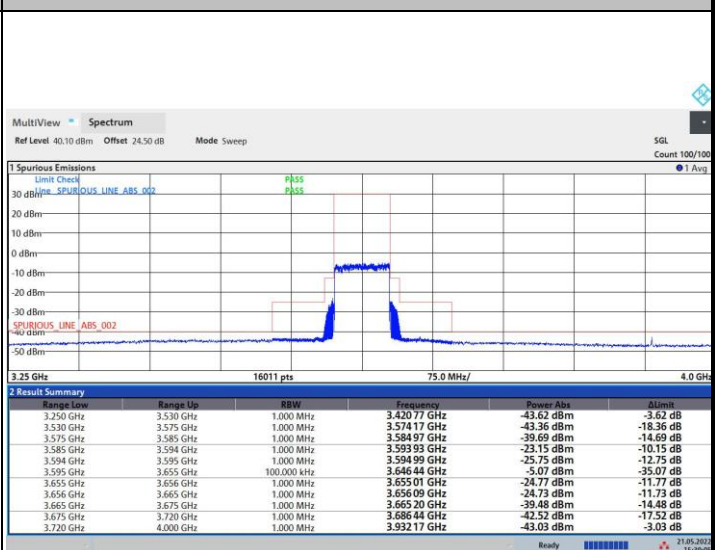
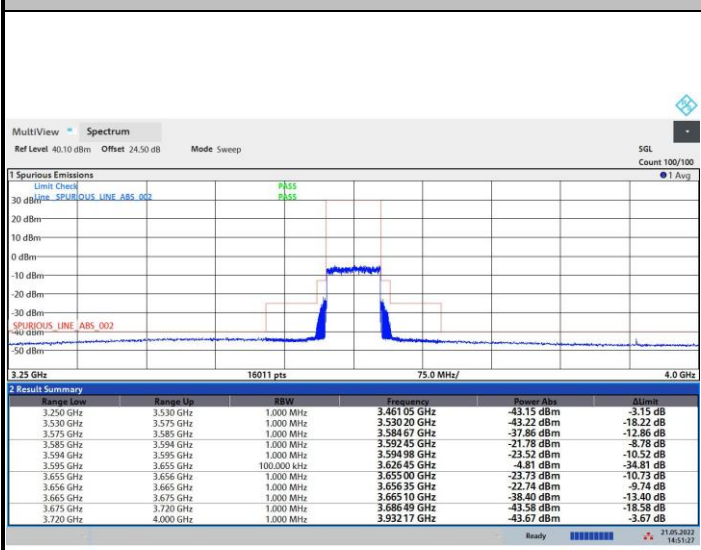
QPSK

16QAM



64QAM

256QAM

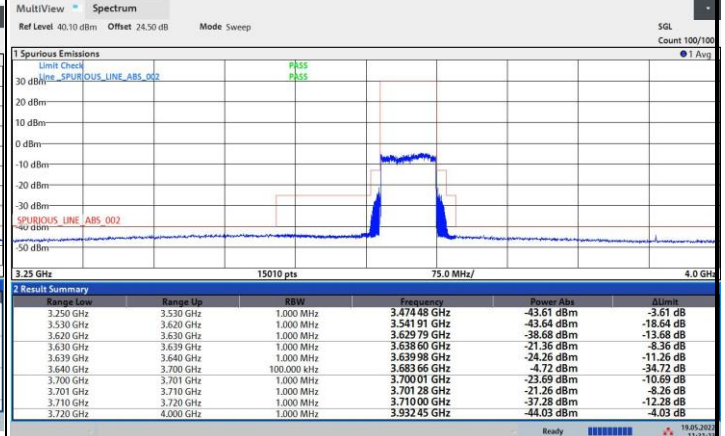
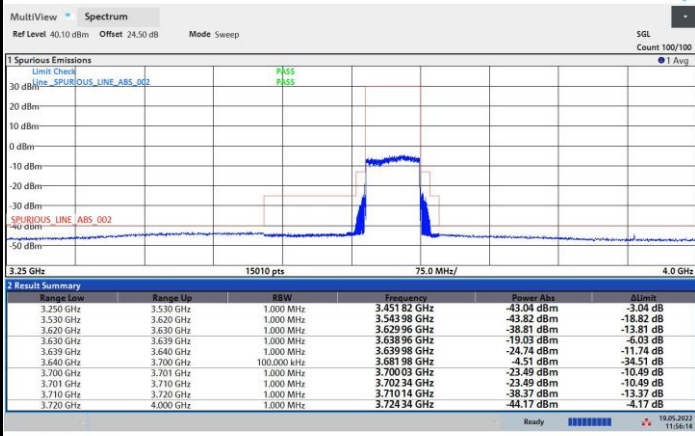




FR1 n48 / 60MHz / Highest Channel / MASK

QPSK

16QAM

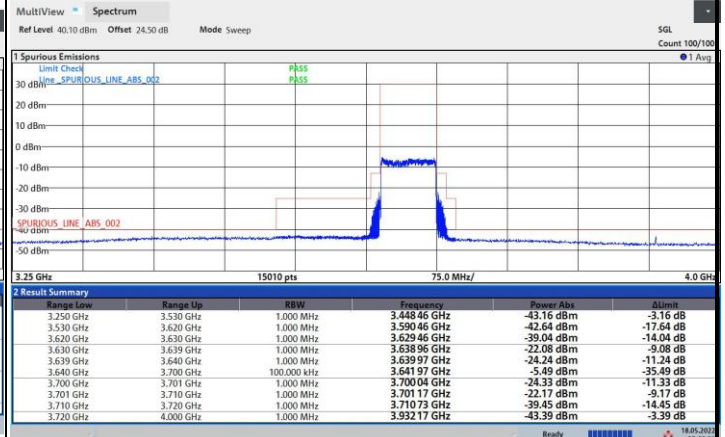
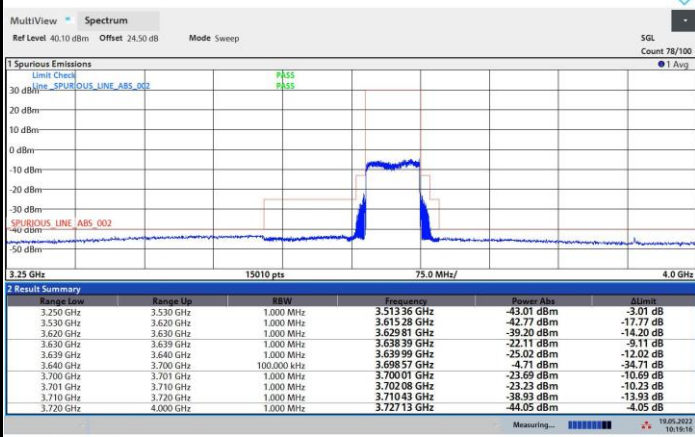


11:56:15 19.05.2022

11:31:24 19.05.2022

64QAM

256QAM



10:19:17 19.05.2022

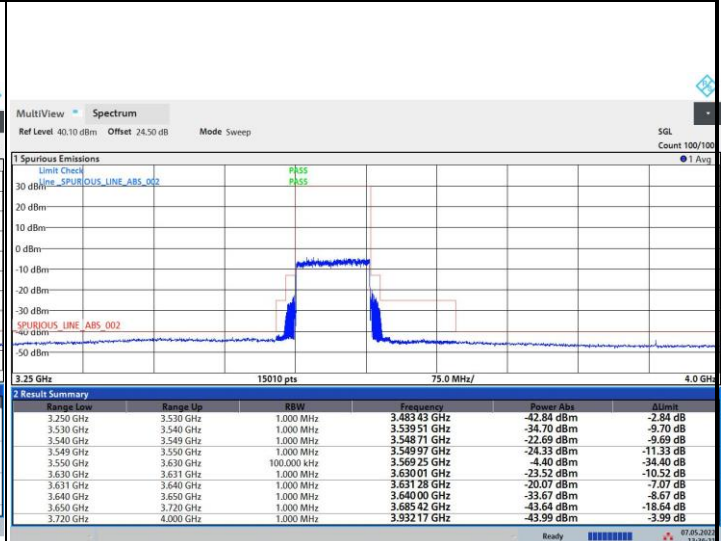
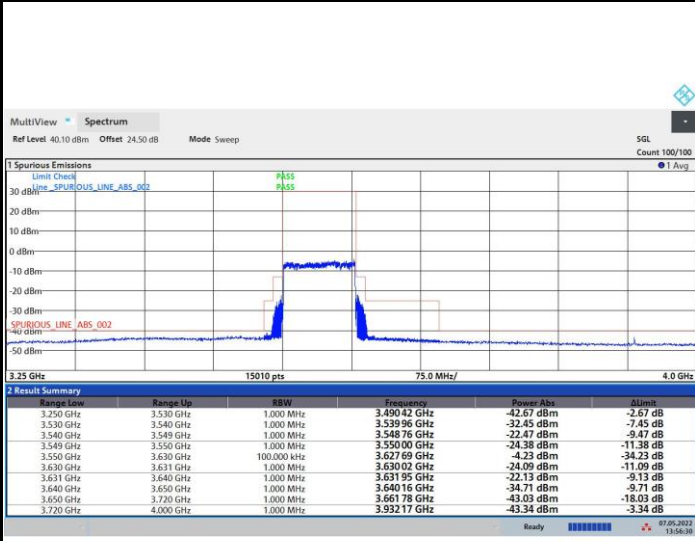
17:40:57 18.05.2022



FR1 n48 / 80MHz / Lowest Channel / MASK

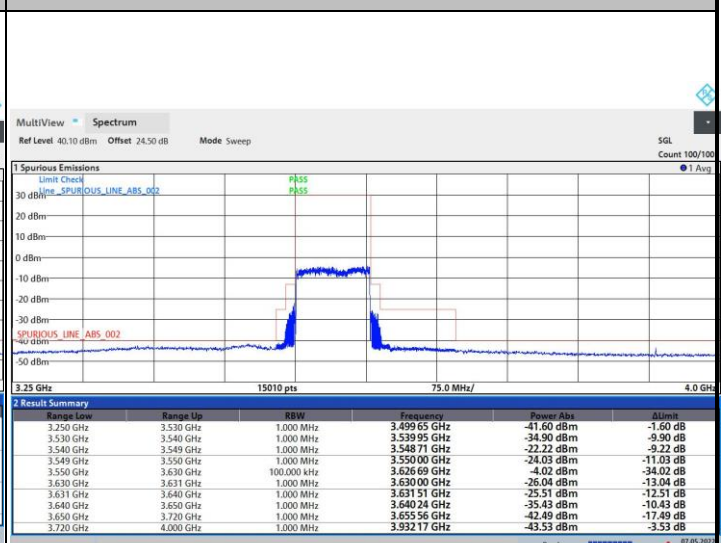
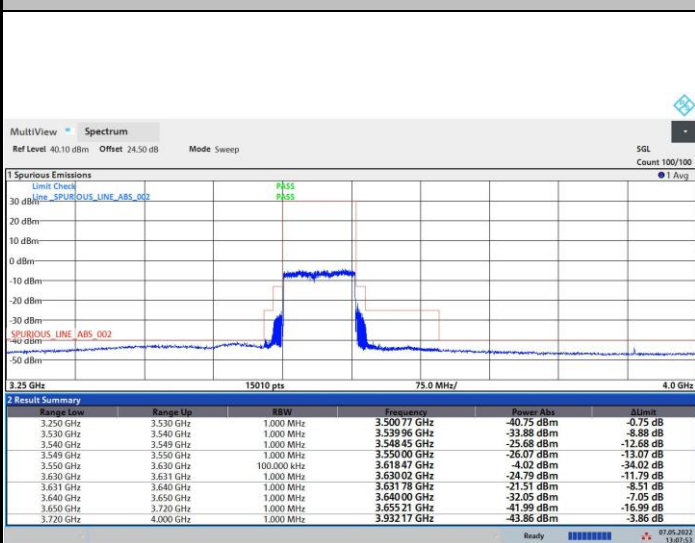
QPSK

16QAM



64QAM

256QAM

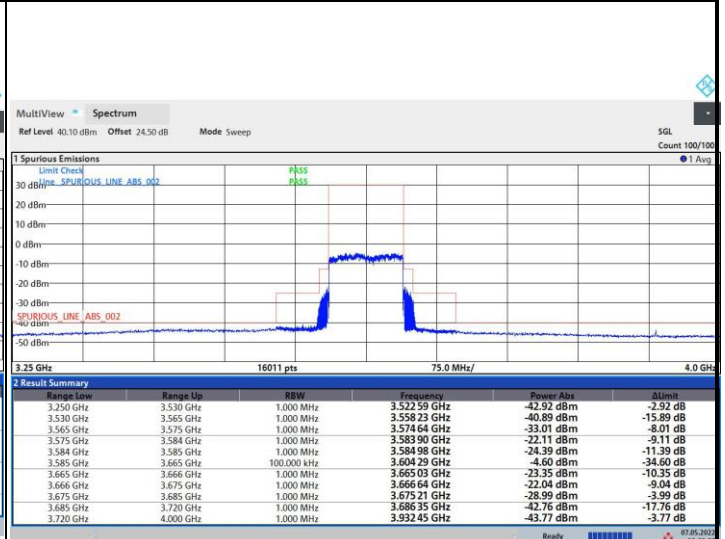
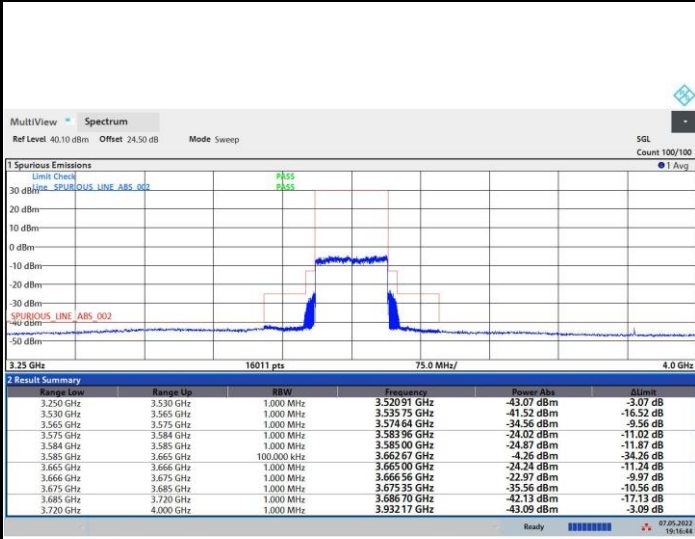




FR1 n48 / 80MHz / Middle Channel / MASK

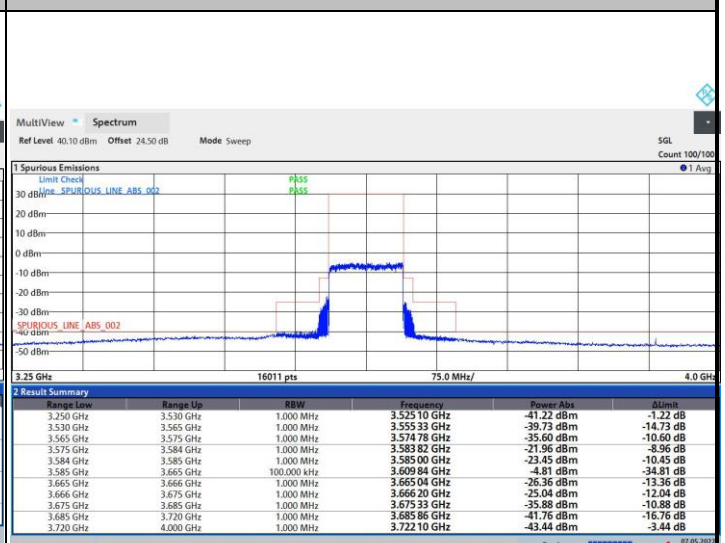
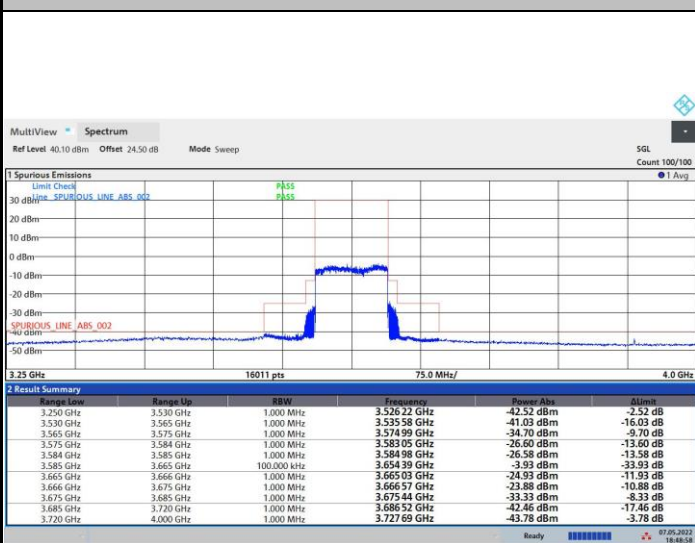
QPSK

16QAM



64QAM

256QAM

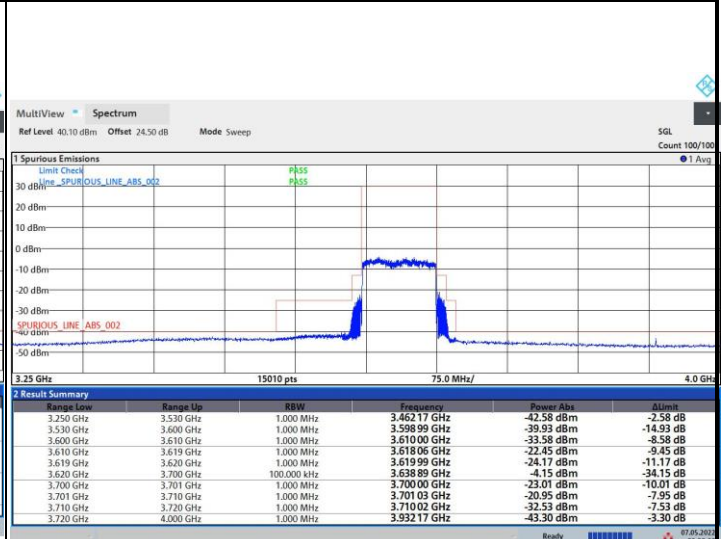
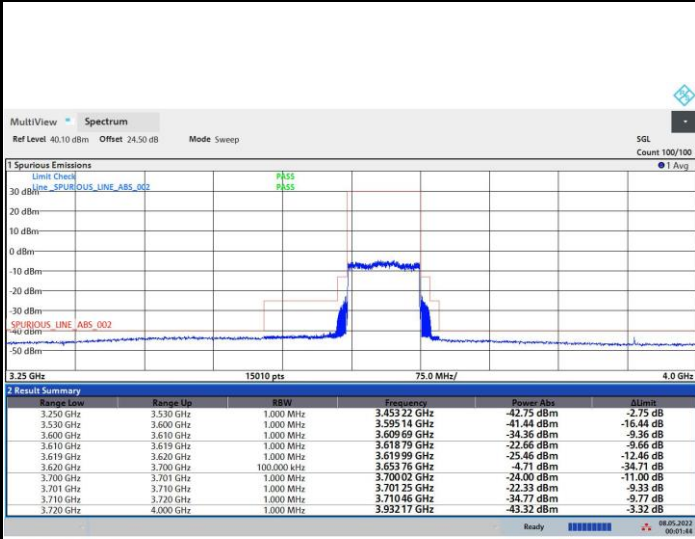




FR1 n48 / 80MHz / Highest Channel / MASK

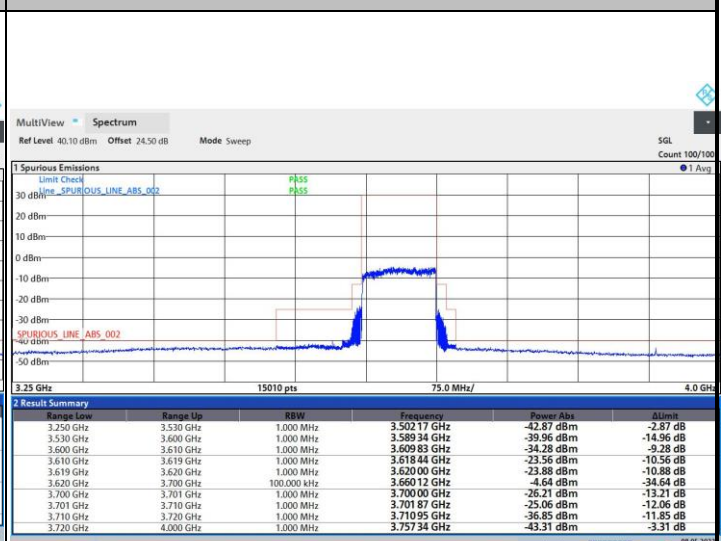
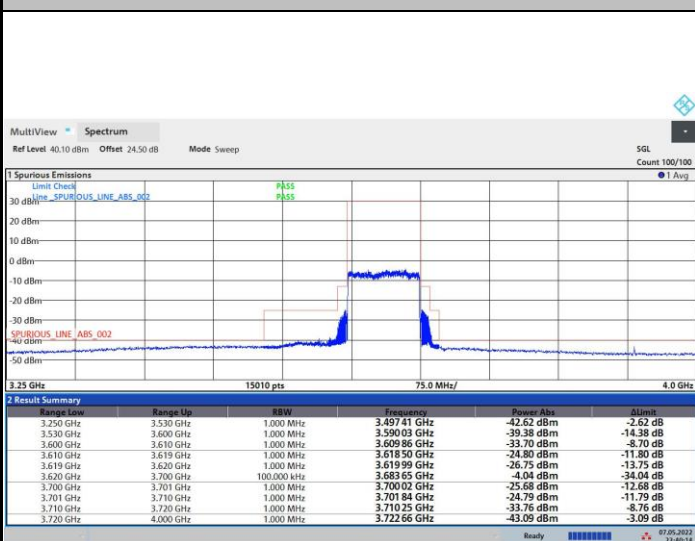
QPSK

16QAM



64QAM

256QAM



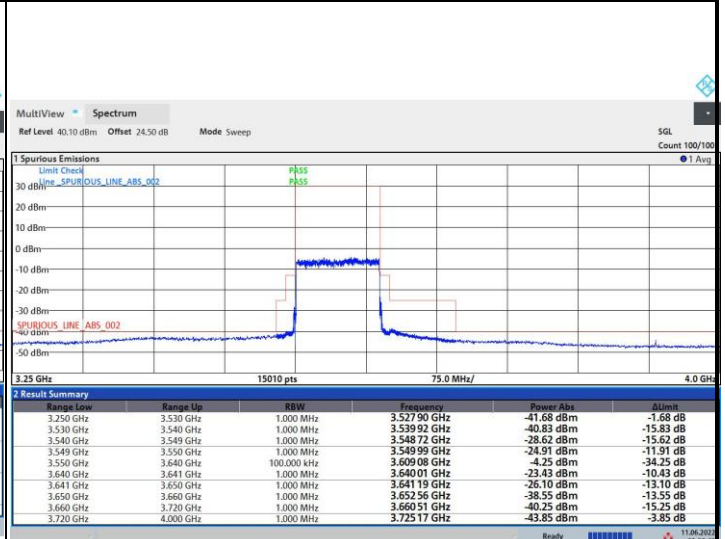
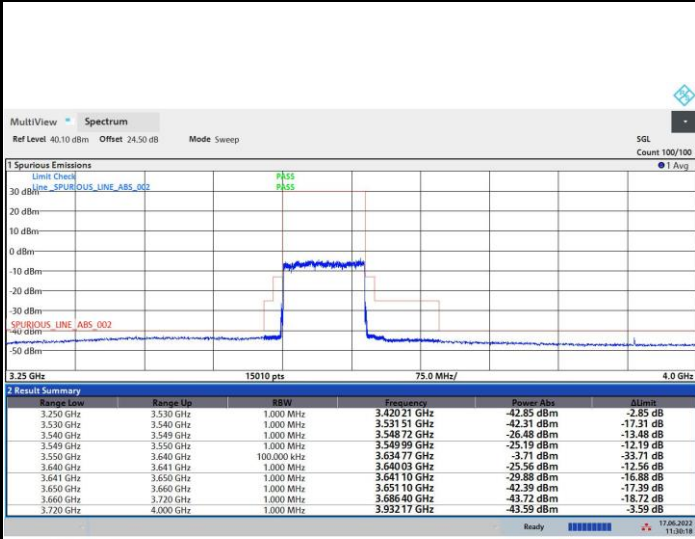




FR1 n48 / 90MHz / Lowest Channel / MASK

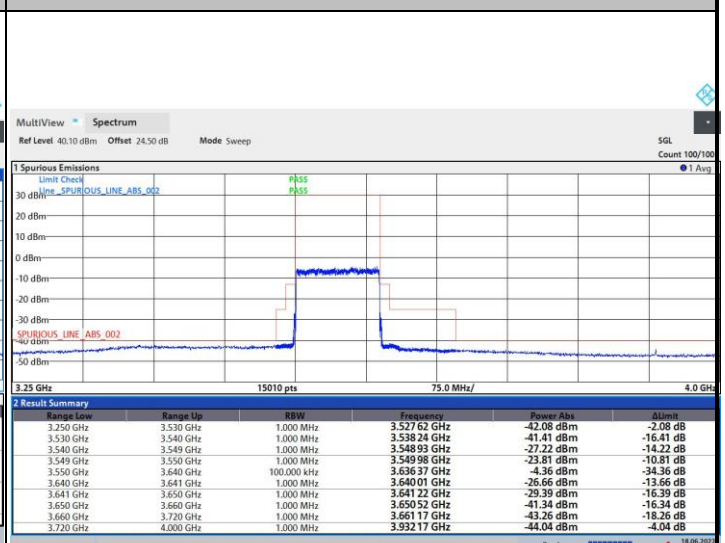
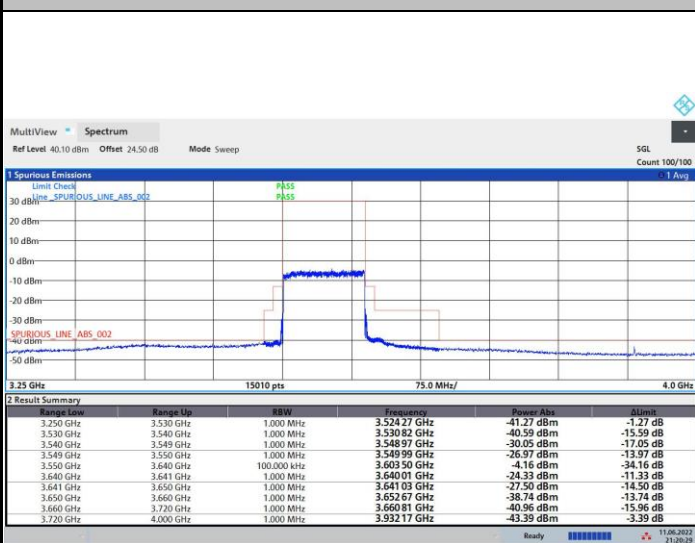
QPSK

16QAM



64QAM

256QAM

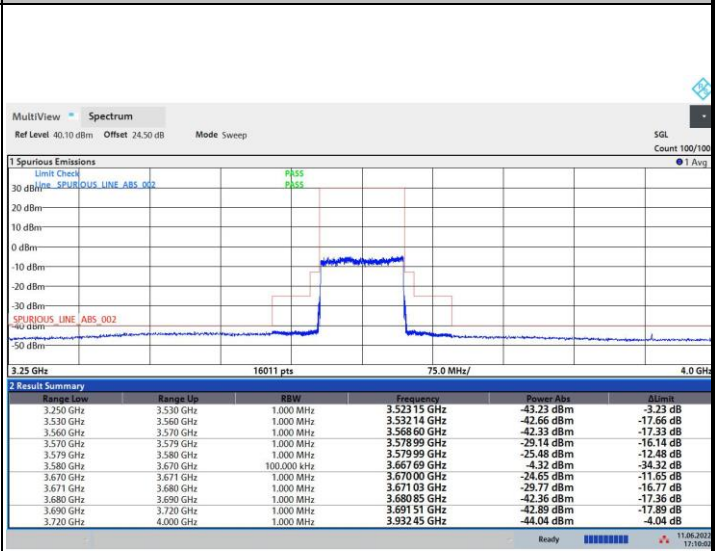
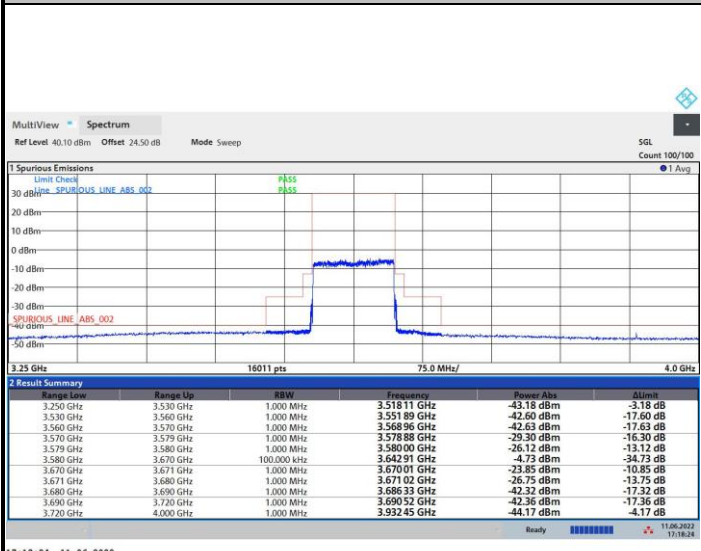




FR1 n48 / 90MHz / Middle Channel / MASK

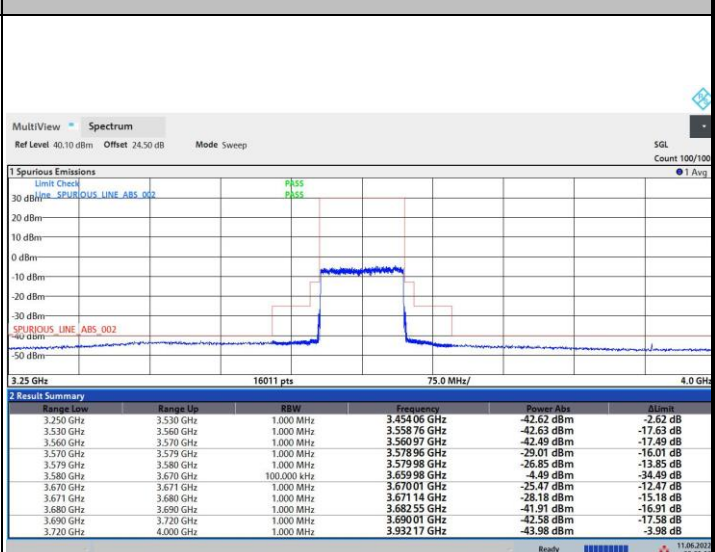
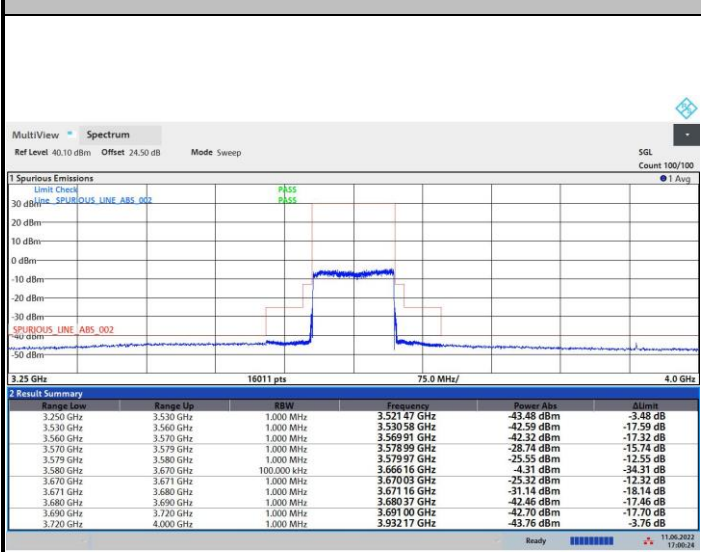
QPSK

16QAM



64QAM

256QAM

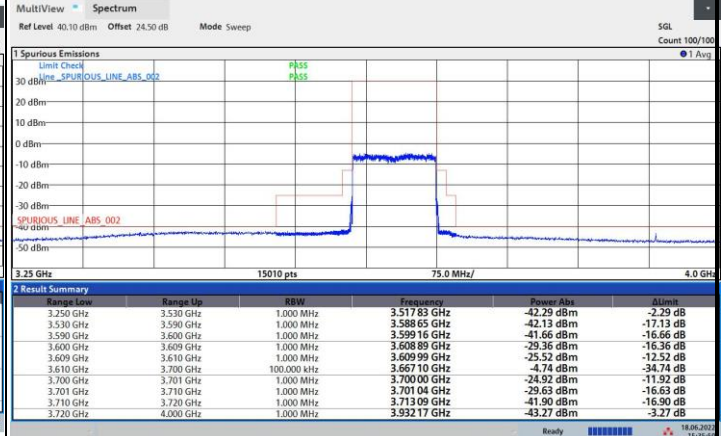
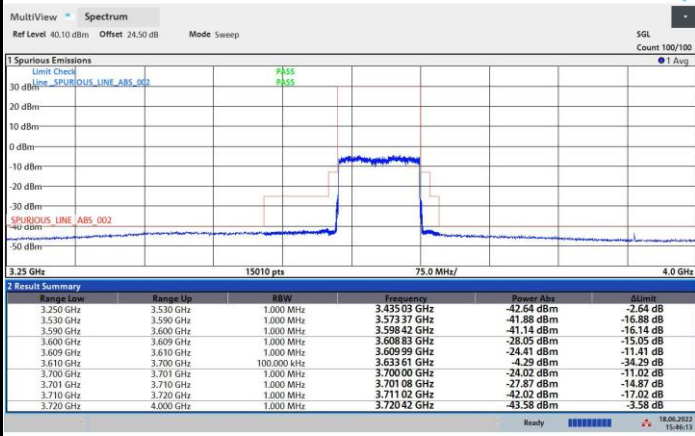




FR1 n48 / 90MHz / Highest Channel / MASK

QPSK

16QAM

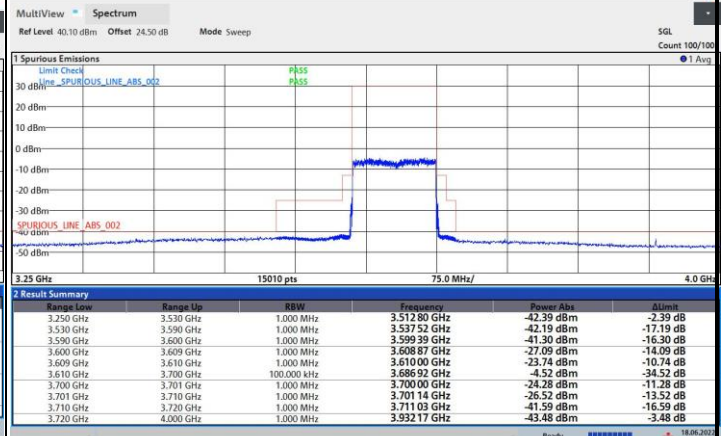
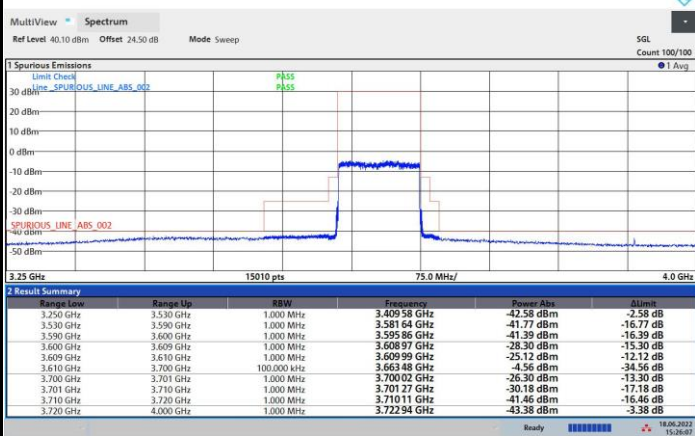


15:46:14 18.06.2022

15:35:50 18.06.2022

64QAM

256QAM



15:26:08 18.06.2022

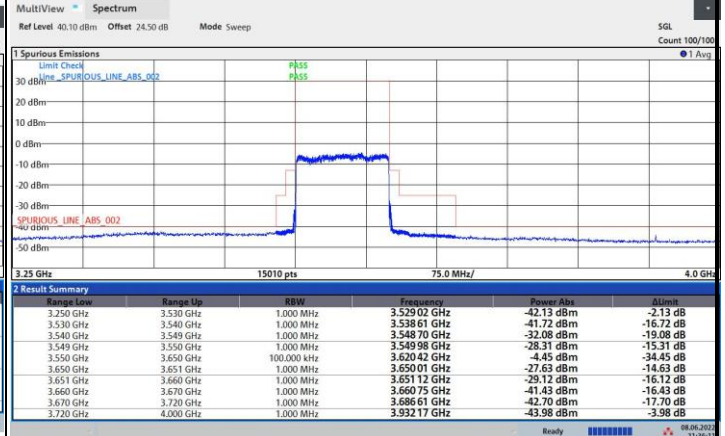
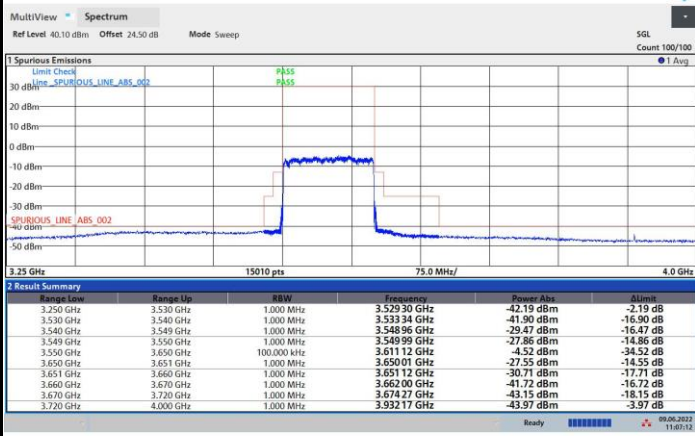
14:44:22 18.06.2022



FR1 n48 / 100MHz / Lowest Channel / MASK

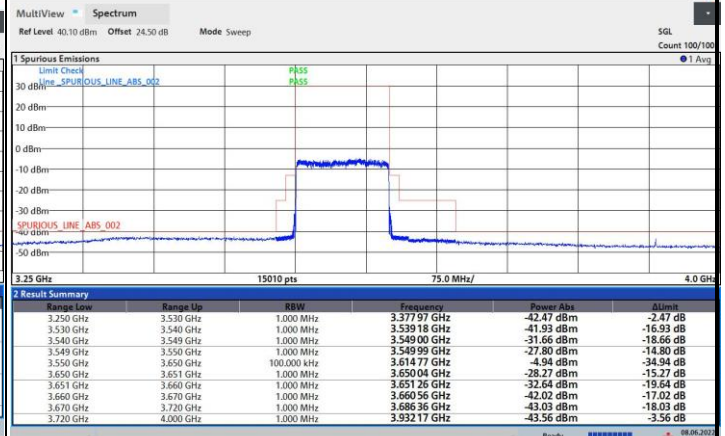
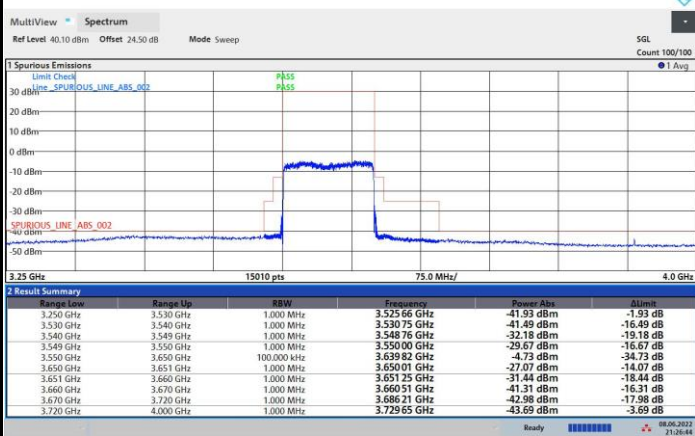
QPSK

16QAM



64QAM

256QAM

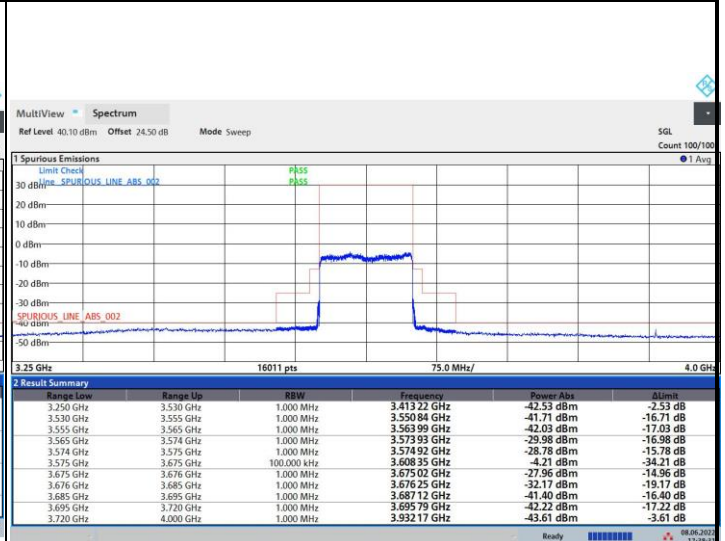
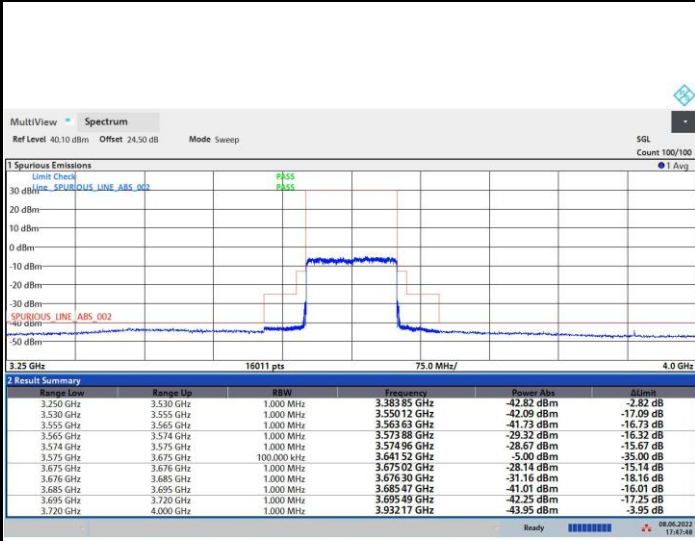




FR1 n48 / 100MHz / Middle Channel / MASK

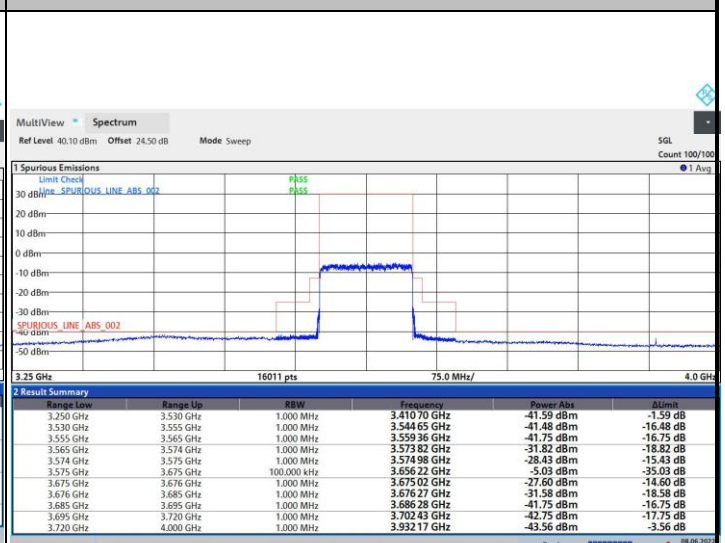
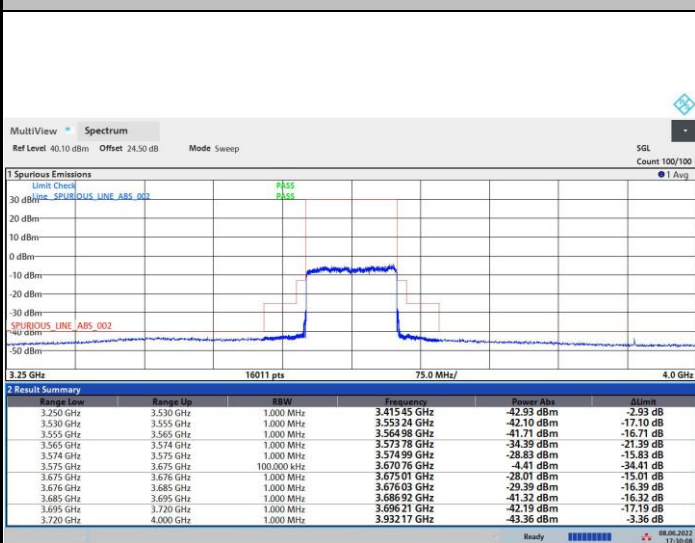
QPSK

16QAM



64QAM

256QAM

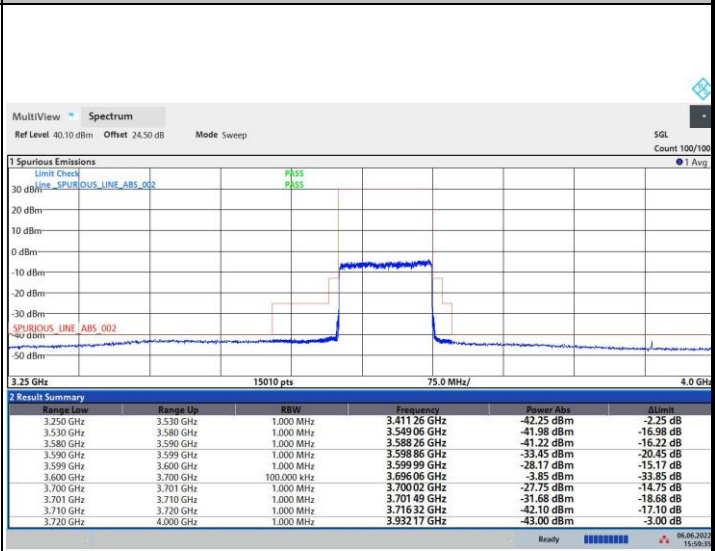
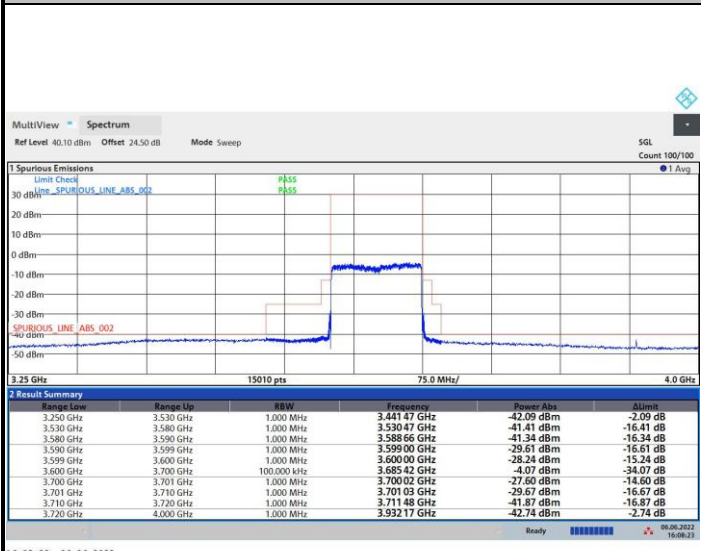




FR1 n48 / 100MHz / Highest Channel / MASK

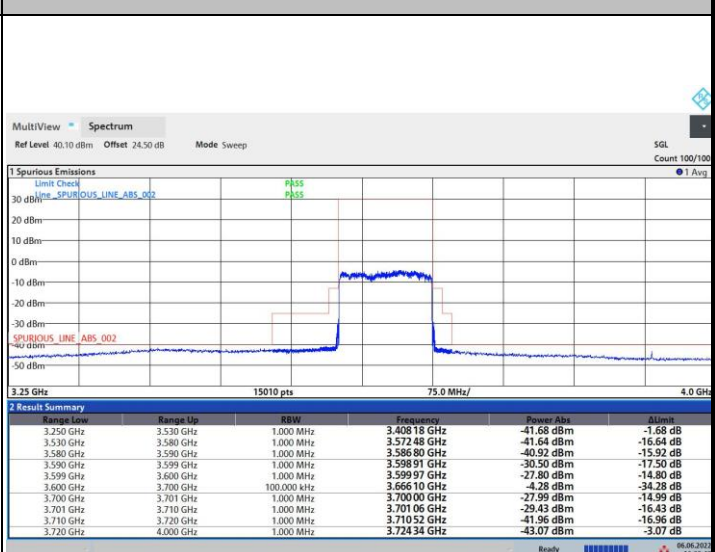
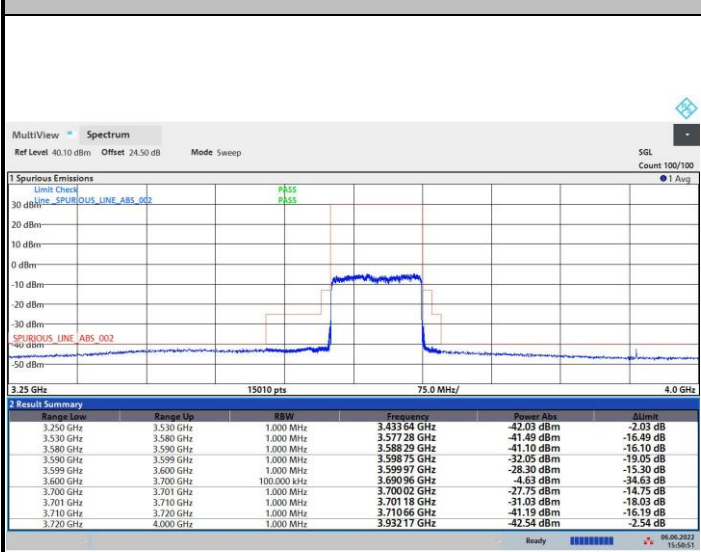
QPSK

16QAM



64QAM

256QAM



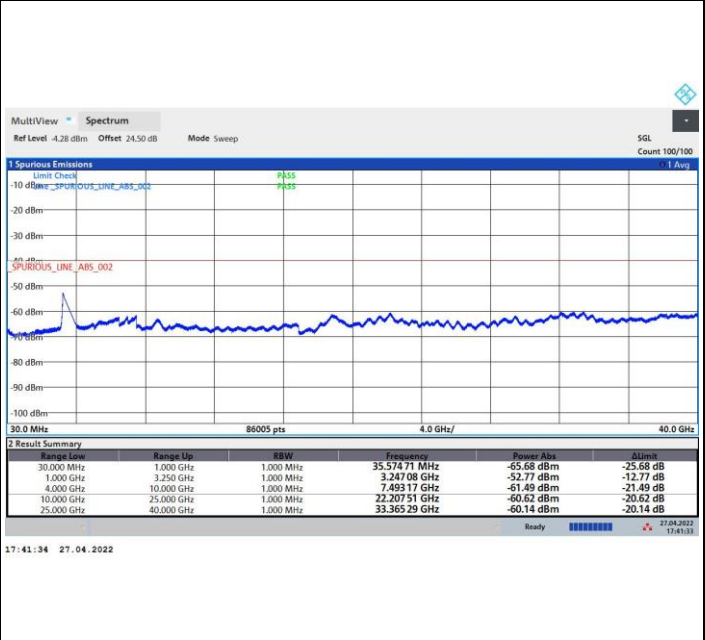
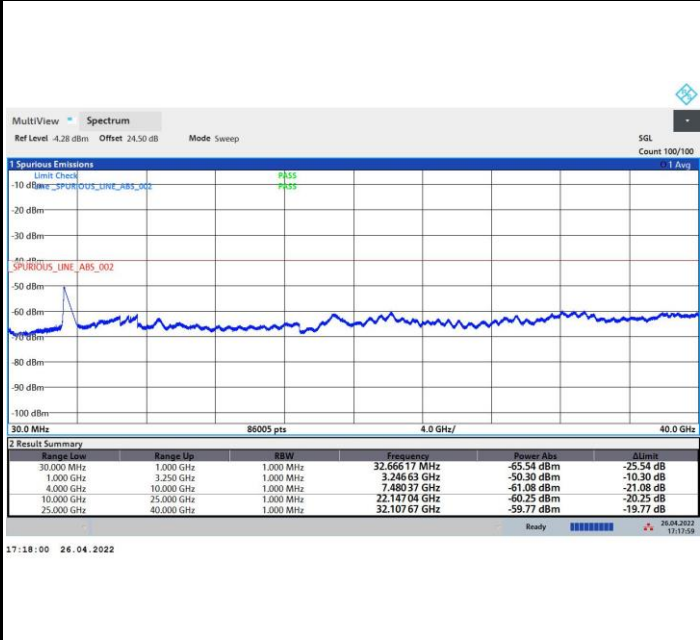


# Conducted Spurious Emission

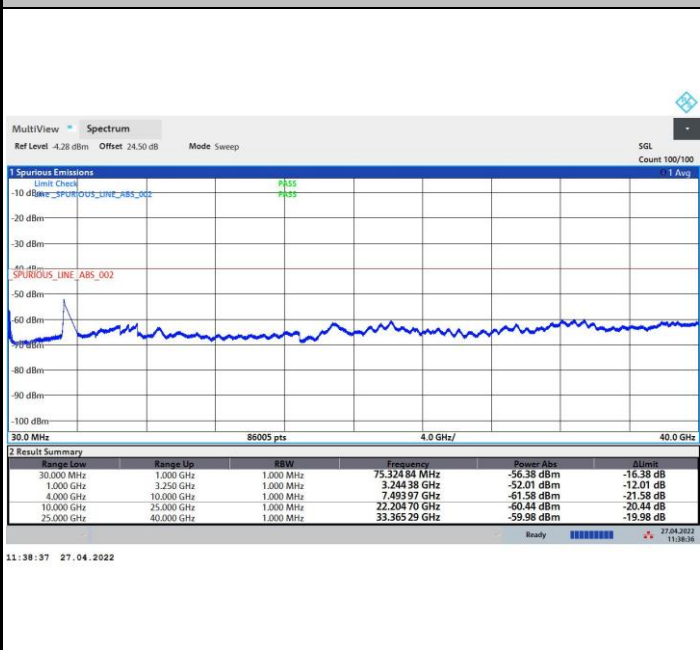
FR1 n48 / 10MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel

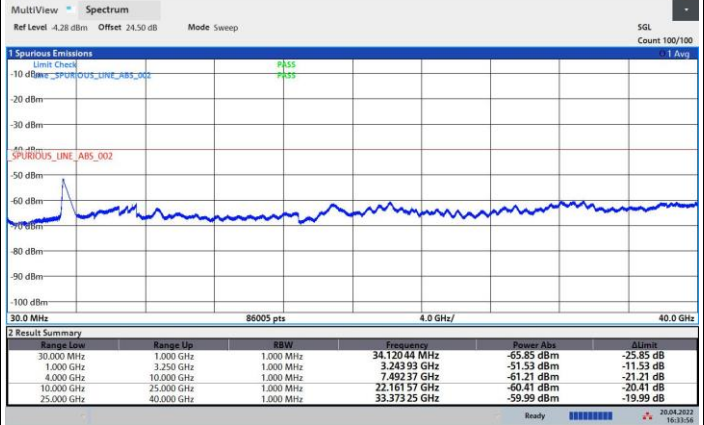
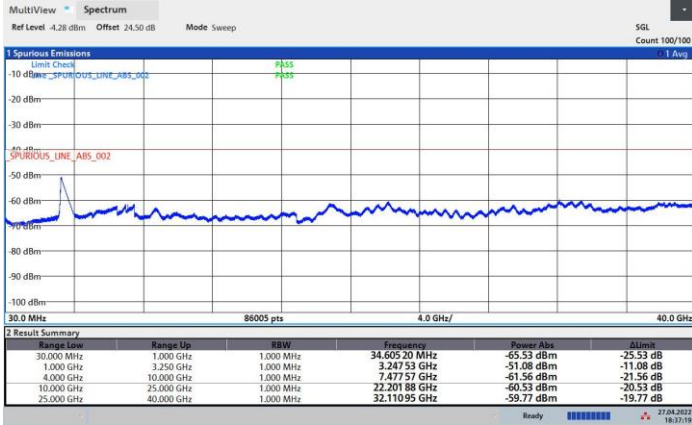




FR1 n48 / 20MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel



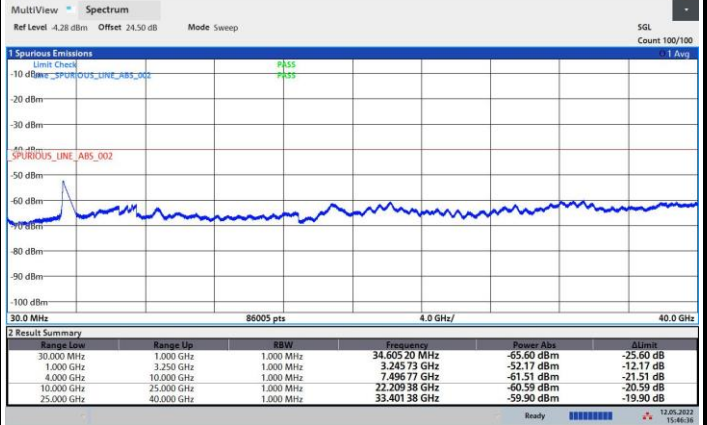
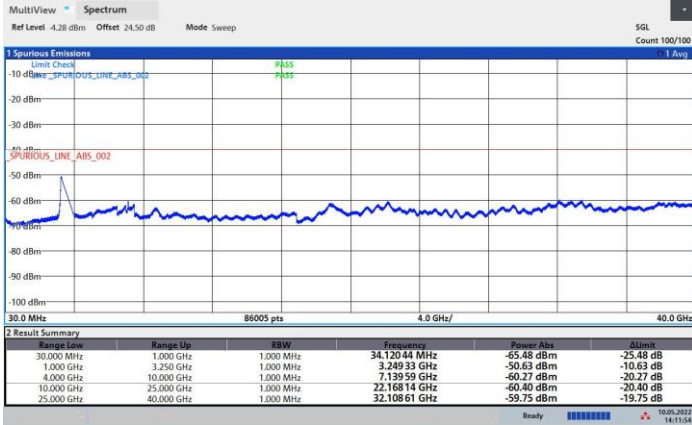




FR1 n48 / 40MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel

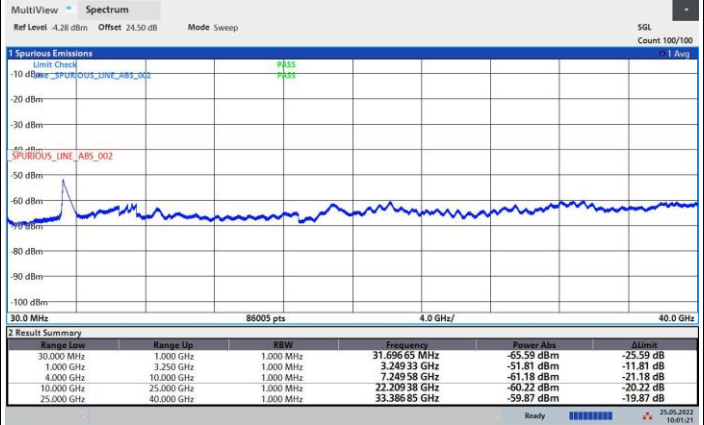
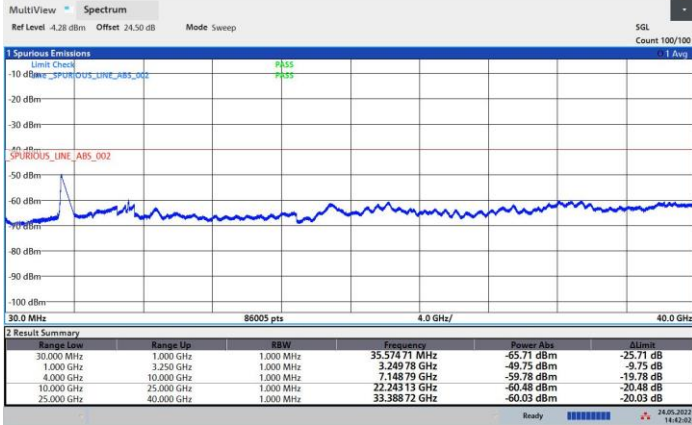




FR1 n48 / 50MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel

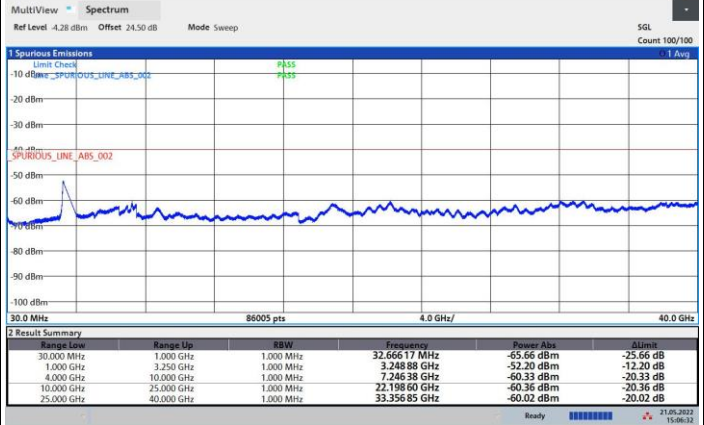




FR1 n48 / 60MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel

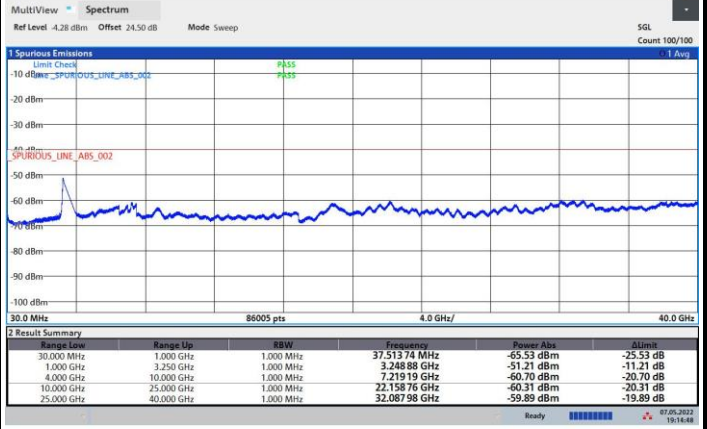
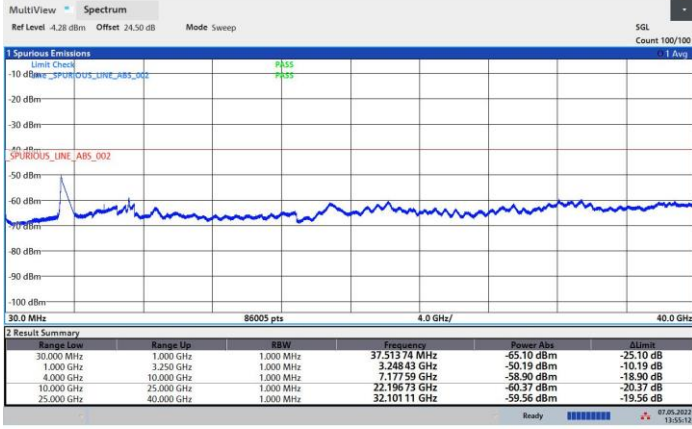




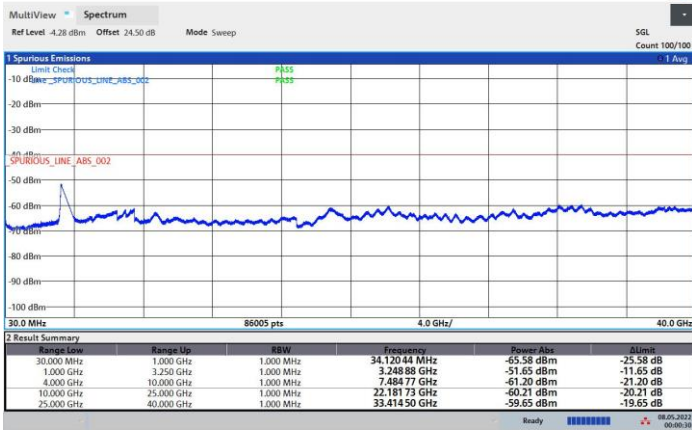
FR1 n48 / 80MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel

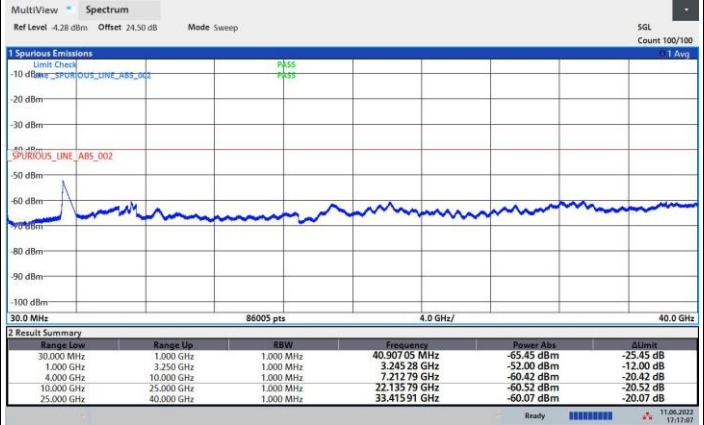
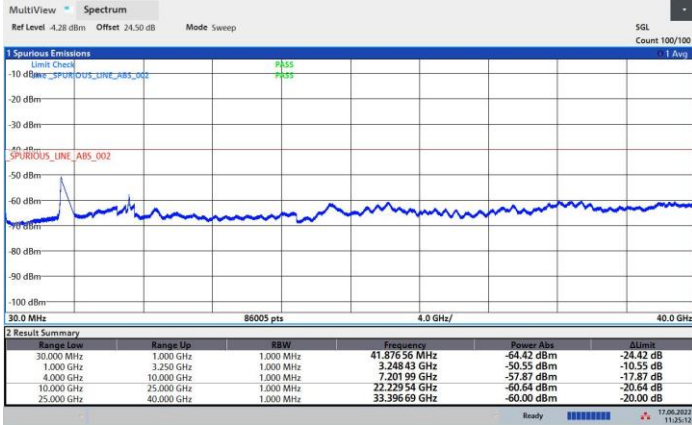




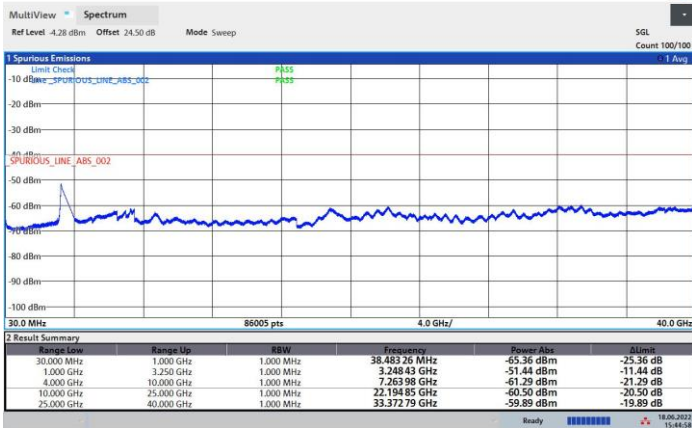
FR1 n48 / 90MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel

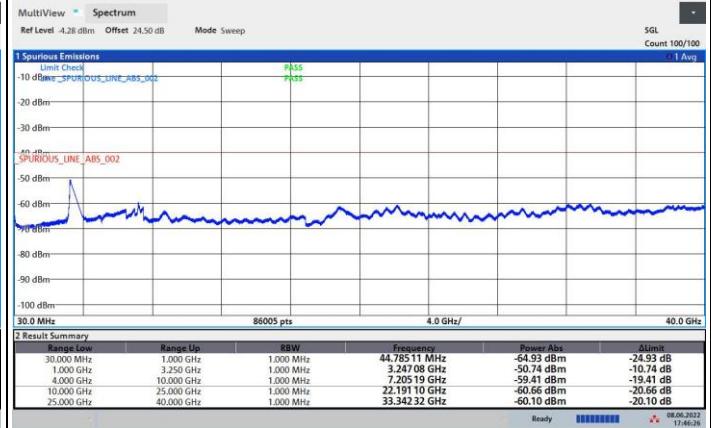
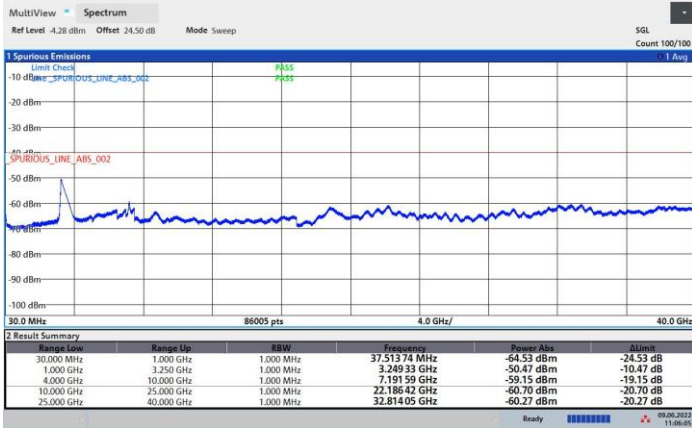




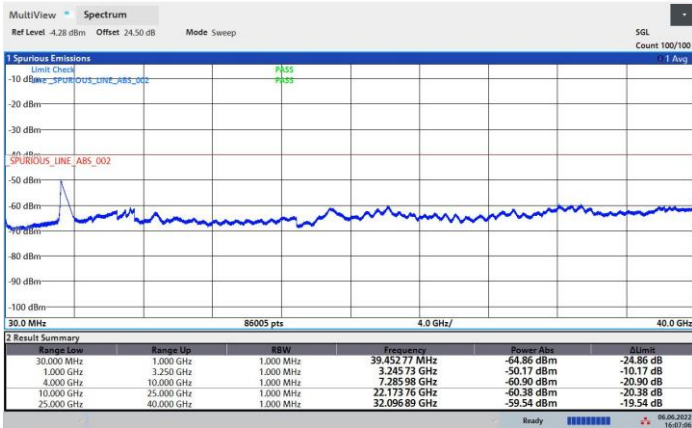
FR1 n48 / 100MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel





### Frequency Stability

Test Conditions		FR1 n48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Frequency Offset (ppm)	Result
50	Normal Voltage	2.4828	PASS
40	Normal Voltage	2.2069	
30	Normal Voltage	1.6552	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.2759	
0	Normal Voltage	1.3793	
-10	Normal Voltage	0.8276	
-20	Normal Voltage	1.1035	
-30	Normal Voltage	1.6552	
20	Maximum Voltage	1.6552	
20	Normal Voltage	0.5517	
20	Minimum Voltage	1.9310	

**Note:**

- 1. Normal Voltage = 110 V. ; Minimum Voltage = 100 V. ; Maximum Voltage = 240 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



# Appendix B. Test Results of Radiated Test

<MIMO 4TX>

## 5G NR n48

5G NR n48 / 100MHz / 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	7200	-56.41	-40	-16.41	-53.81	-65.87	1.84	11.30	H
	10800	-50.63	-40	-10.63	-52.53	-59.03	2.22	10.62	H
	14400	-43.10	-40	-3.10	-51.02	-52.63	2.63	12.16	H
	18000	-50.22	-40	-10.22	-60.62	-33.96	23.16	6.90	H
	21600	-58.77	-40	-18.77	-72.83	-73.87	3.40	18.50	H
	25200	-58.96	-40	-18.96	-76.26	-73.85	3.75	18.64	H
	28800	-46.27	-40	-6.27	-66.29	-61.61	4.00	19.34	H
	7200	-53.86	-40	-13.86	-51.66	-63.32	1.84	11.30	V
	10800	-50.64	-40	-10.64	-52.26	-59.04	2.22	10.62	V
	14400	-41.63	-40	-1.63	-49.84	-51.16	2.63	12.16	V
	18000	-57.78	-40	-17.78	-67.87	-41.52	23.16	6.90	V
	21600	-58.84	-40	-18.84	-72.58	-73.94	3.40	18.50	V
	25200	-59.52	-40	-19.52	-76.53	-74.41	3.75	18.64	V
	28800	-50.95	-40	-10.95	-70.56	-66.29	4.00	19.34	V





Middle	7250	-54.81	-40	-14.81	-52.32	-64.27	1.87	11.33	H
	10875	-49.40	-40	-9.40	-51.44	-57.76	2.21	10.58	H
	14500	-43.63	-40	-3.63	-51.64	-53.11	2.62	12.10	H
	18125	-49.80	-40	-9.80	-60.32	-64.17	3.23	17.60	H
	21750	-59.29	-40	-19.29	-73.5	-74.50	3.44	18.65	H
	25375	-59.28	-40	-19.28	-76.6	-74.34	3.79	18.85	H
	29000	-47.75	-40	-7.75	-68.1	-63.05	4.00	19.30	H
	7250	-55.35	-40	-15.35	-53.19	-64.81	1.87	11.33	V
	10875	-47.88	-40	-7.88	-49.71	-56.24	2.21	10.58	V
	14500	-42.23	-40	-2.23	-50.75	-51.71	2.62	12.10	V
	18125	-54.57	-40	-14.57	-64.8	-68.94	3.23	17.60	V
	21750	-61.30	-40	-21.30	-75.17	-76.51	3.44	18.65	V
	25375	-59.29	-40	-19.29	-76.33	-74.35	3.79	18.85	V
	29000	-48.60	-40	-8.60	-68.54	-63.90	4.00	19.30	V
Highest	7300	-54.89	-40	-14.89	-52.52	-64.35	1.89	11.35	H
	10950	-48.06	-40	-8.06	-50.24	-56.38	2.21	10.53	H
	14600	-43.71	-40	-3.71	-51.76	-53.42	2.61	12.32	H
	18250	-48.71	-40	-8.71	-59.34	-63.07	3.24	17.60	H
	21900	-58.18	-40	-18.18	-72.54	-73.50	3.48	18.80	H
	25550	-59.69	-40	-19.69	-77.09	-74.87	3.83	19.01	H
	29200	-48.34	-40	-8.34	-68.62	-63.73	3.99	19.38	H
	7300	-54.20	-40	-14.20	-52.07	-63.66	1.89	11.35	V
	10950	-45.69	-40	-5.69	-47.73	-54.01	2.21	10.53	V
	14600	-43.20	-40	-3.20	-51.96	-52.91	2.61	12.32	V
	18250	-56.80	-40	-16.80	-67.17	-71.16	3.24	17.60	V
	21900	-60.43	-40	-20.43	-74.43	-75.75	3.48	18.80	V
	25550	-54.32	-40	-14.32	-71.45	-69.50	3.83	19.01	V
	29200	-50.65	-40	-10.65	-70.59	-66.04	3.99	19.38	V

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