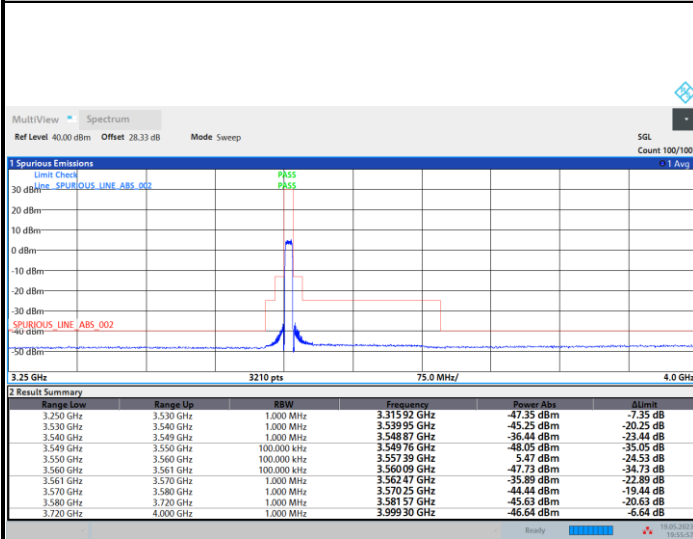




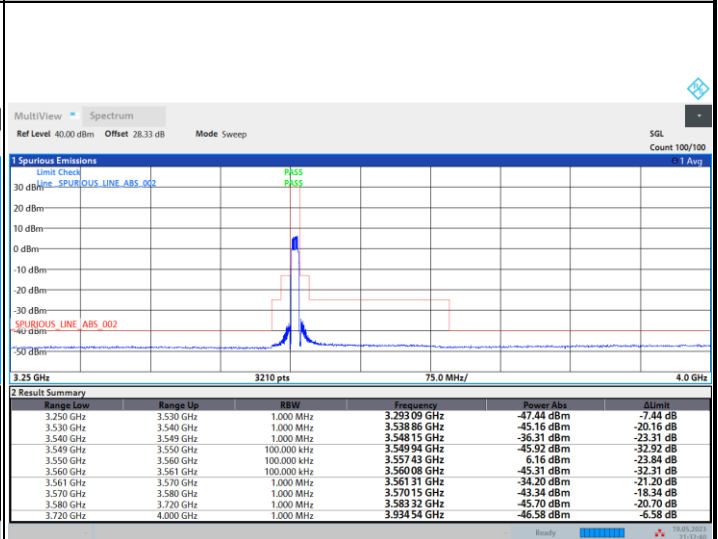
Unwanted Emission (MASK)

FR1 n48 / 10MHz / Lowest Channel / MASK

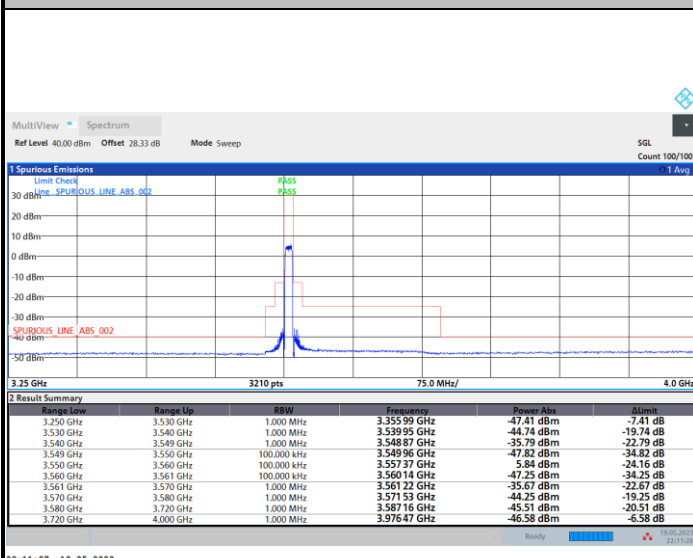
QPSK



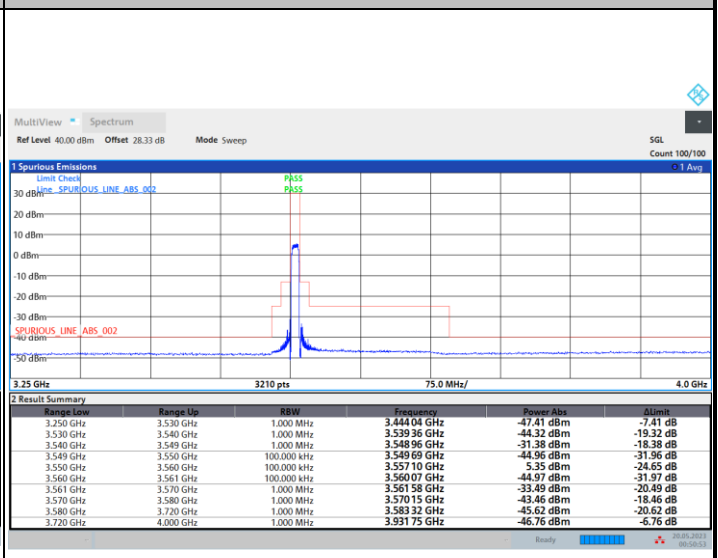
16QAM



64QAM



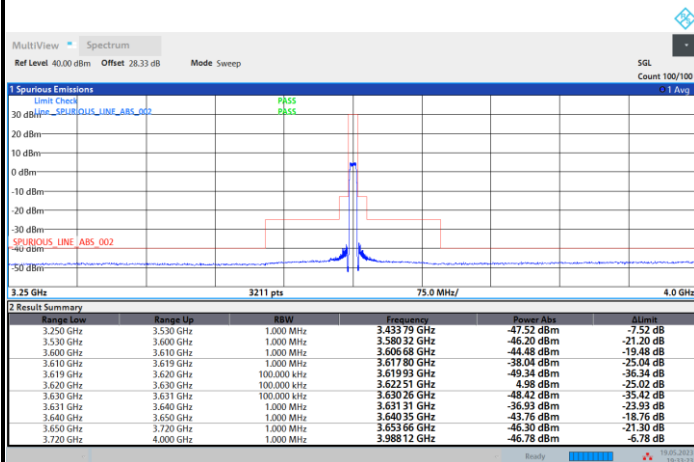
256QAM





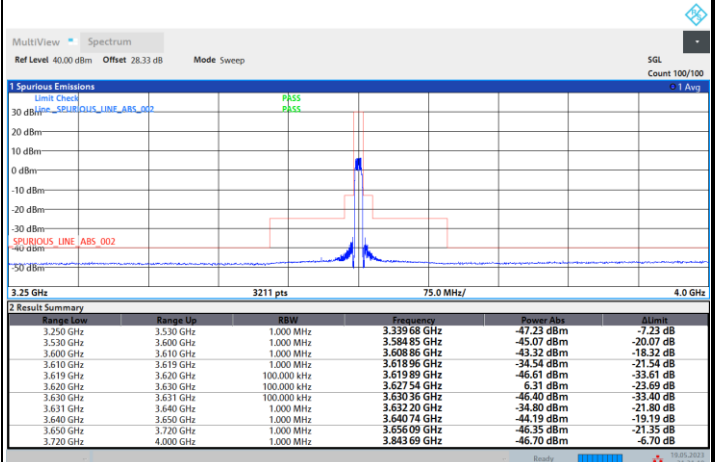
FR1 n48 / 10MHz / Middle Channel / MASK

QPSK



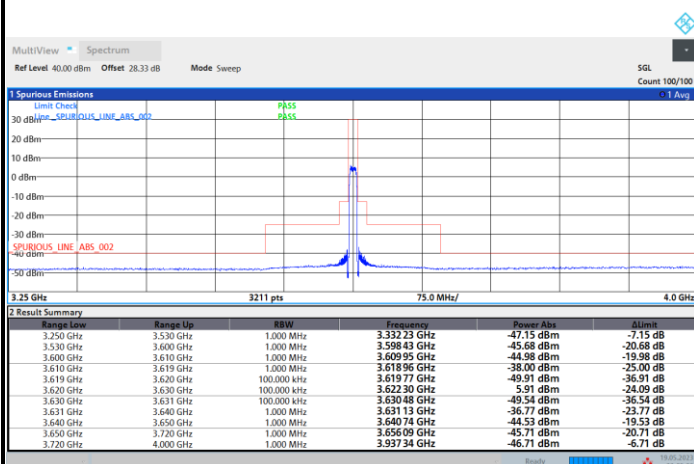
19:33:20 19.05.2023

16QAM



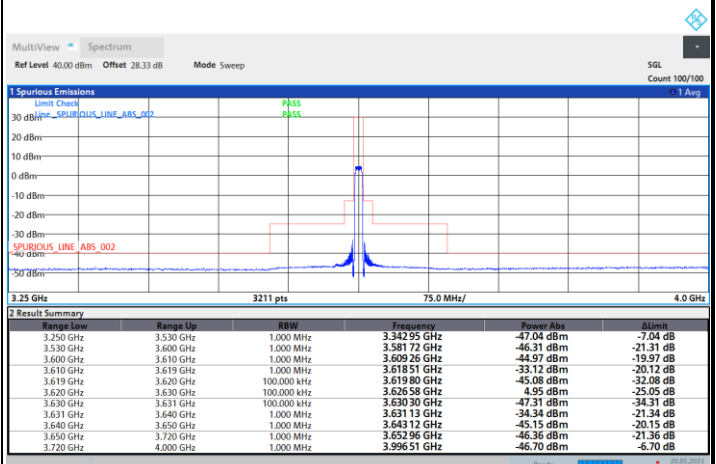
21:21:20 19.05.2023

64QAM



23:05:24 19.05.2023

256QAM

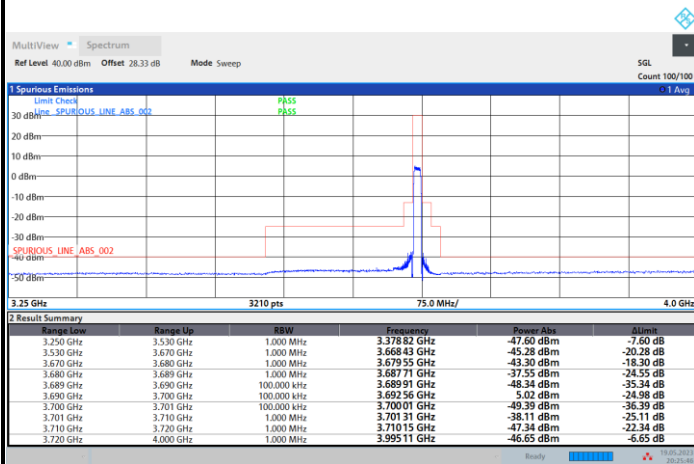


00:41:57 20.05.2023



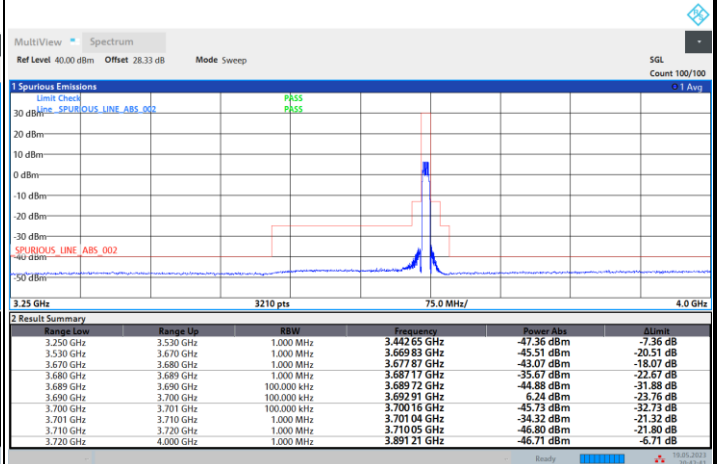
FR1 n48 / 10MHz / Highest Channel / MASK

QPSK



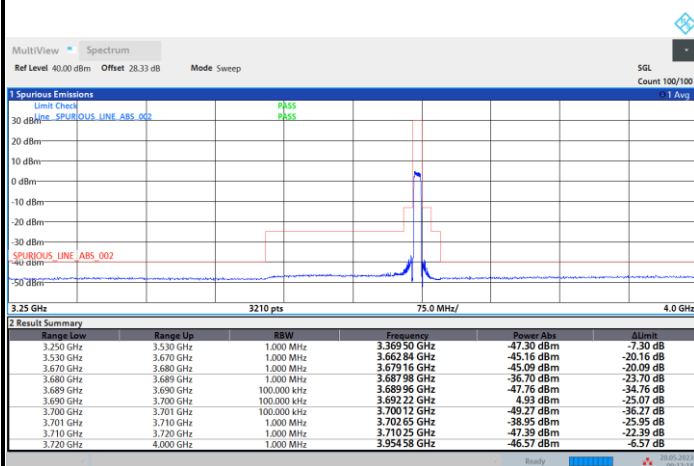
20:25:46 19.05.2023

16QAM



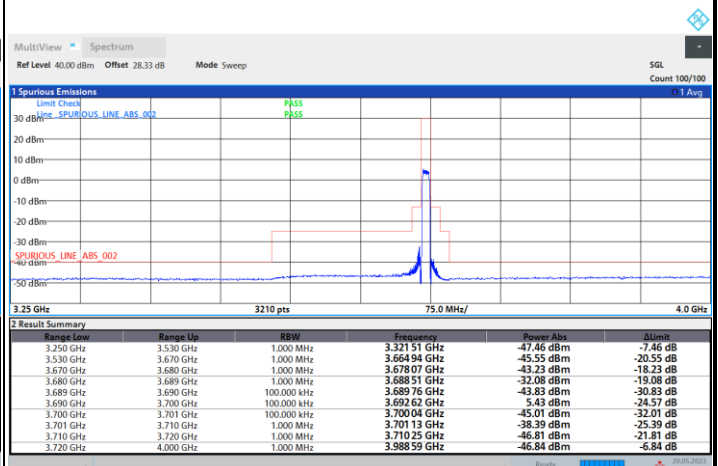
20:42:41 19.05.2023

64QAM



00:12:15 20.05.2023

256QAM

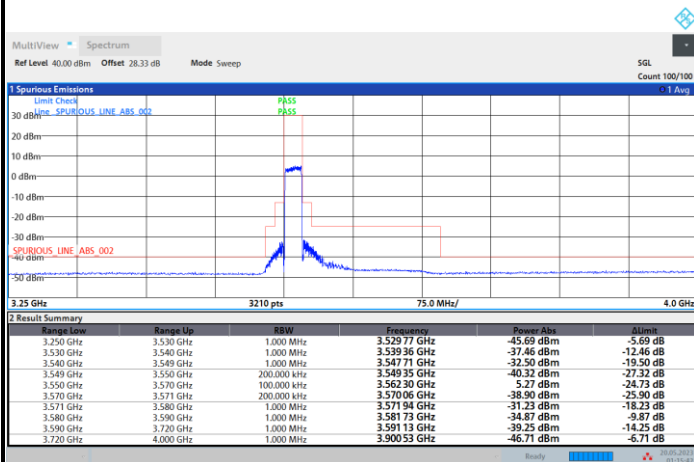


00:20:21 20.05.2023

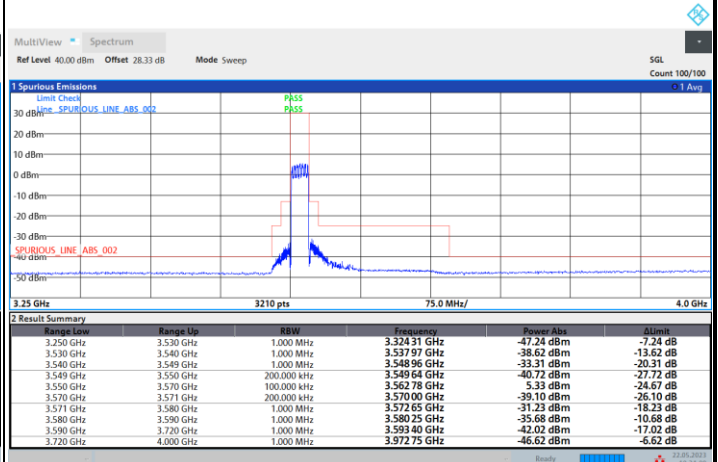


FR1 n48 / 20MHz / Lowest Channel / MASK

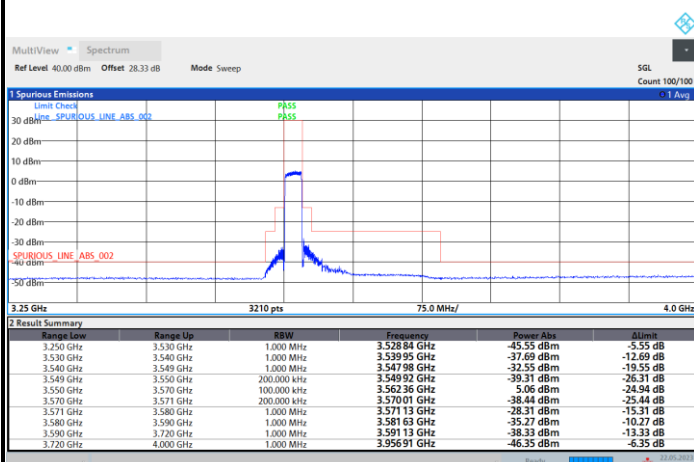
QPSK



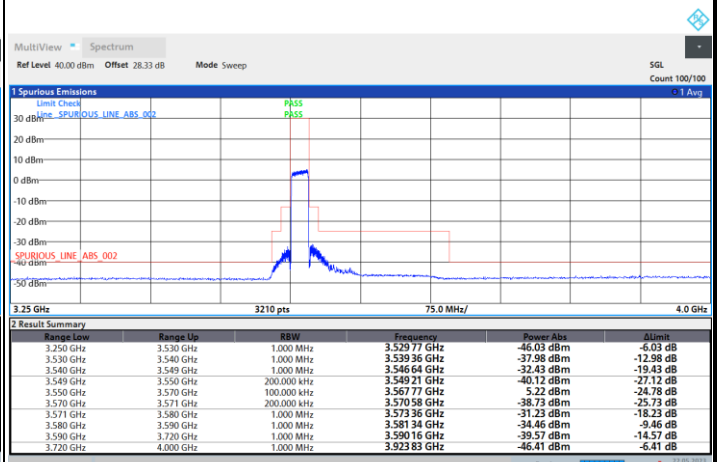
16QAM



64QAM



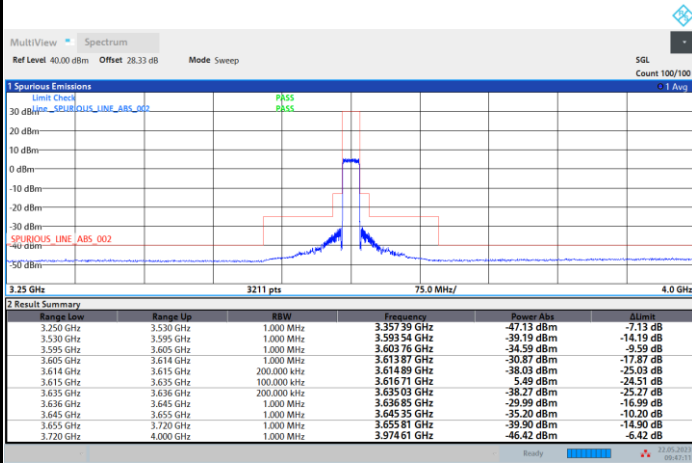
256QAM





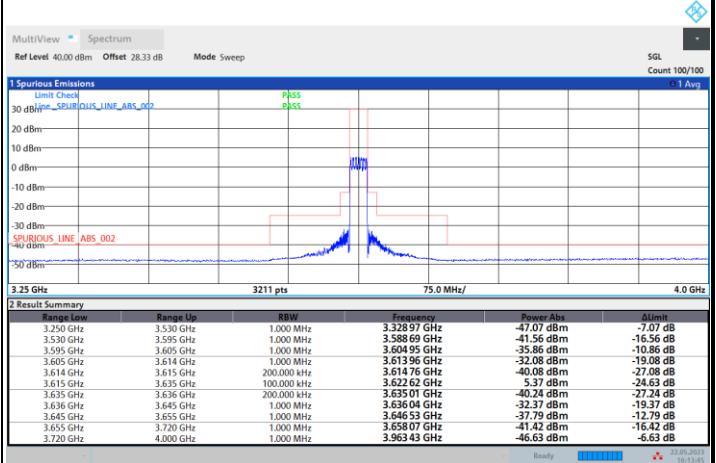
FR1 n48 / 20MHz / Middle Channel / MASK

QPSK



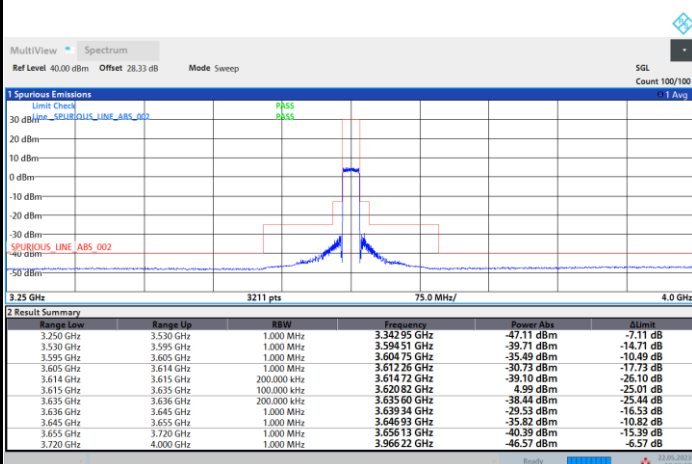
09:47:12 22.05.2023

16QAM



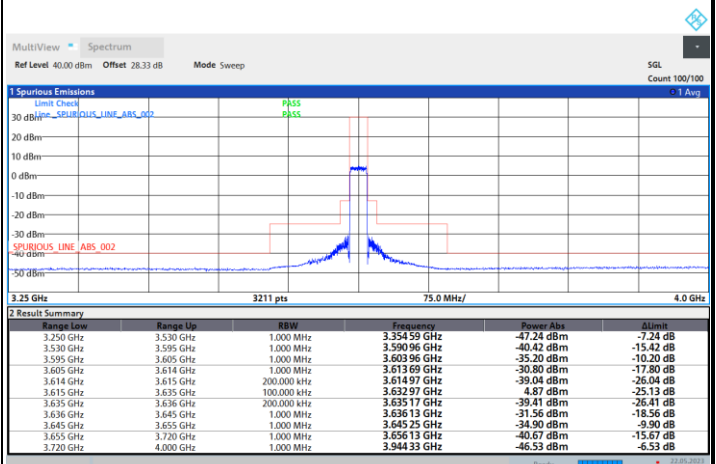
16:13:46 22.05.2023

64QAM



17:36:38 22.05.2023

256QAM

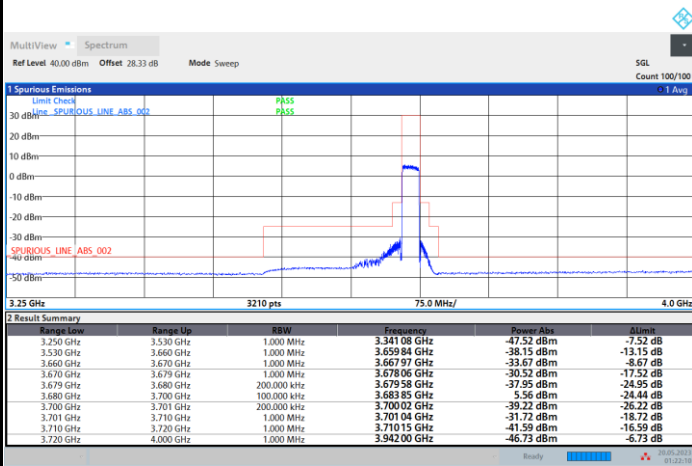


20:28:17 22.05.2023



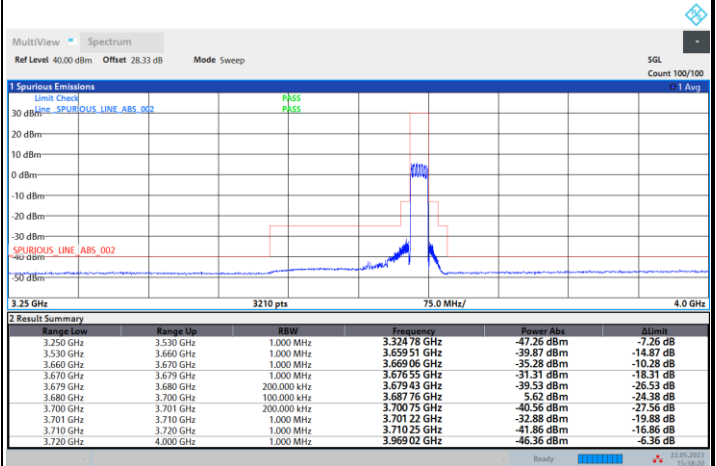
FR1 n48 / 20MHz / Highest Channel / MASK

QPSK



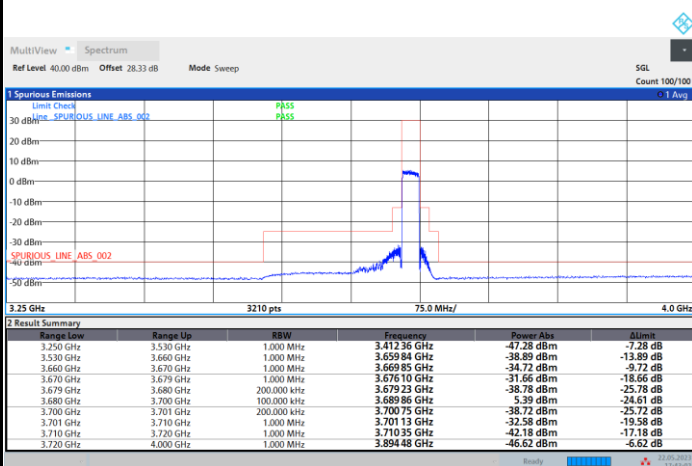
01:22:10 20.05.2023

16QAM



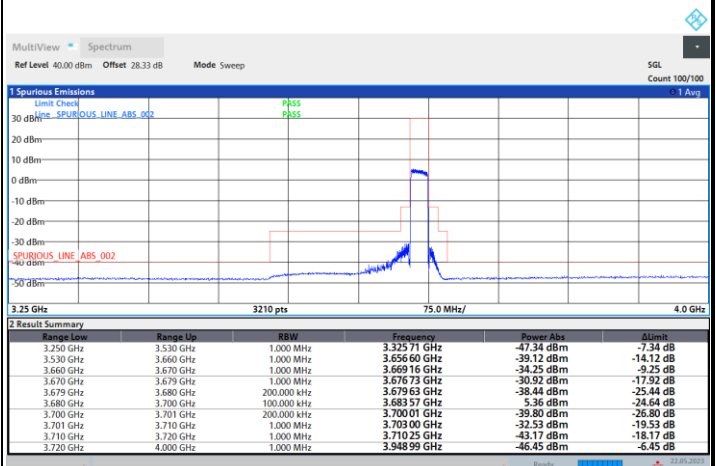
15:38:20 22.05.2023

64QAM



17:43:03 22.05.2023

256QAM

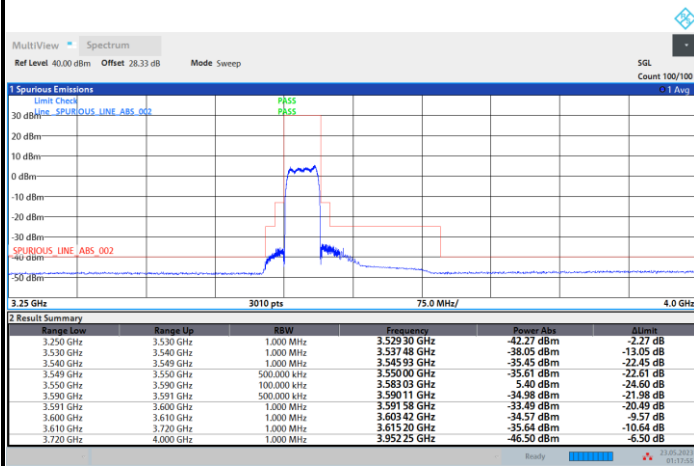


19:53:11 22.05.2023

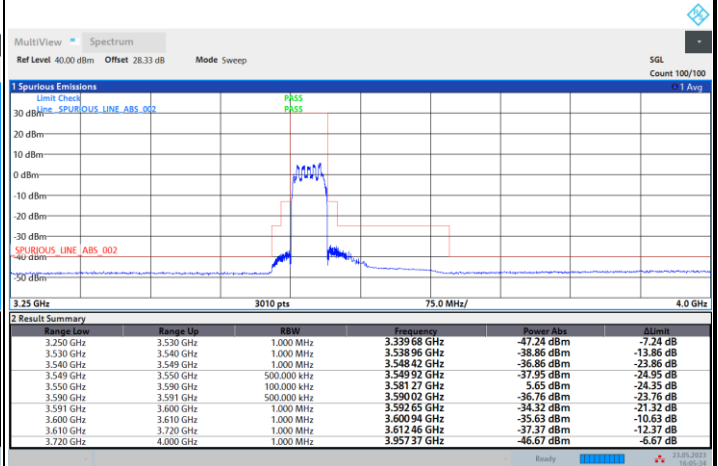


FR1 n48 / 40MHz / Lowest Channel / MASK

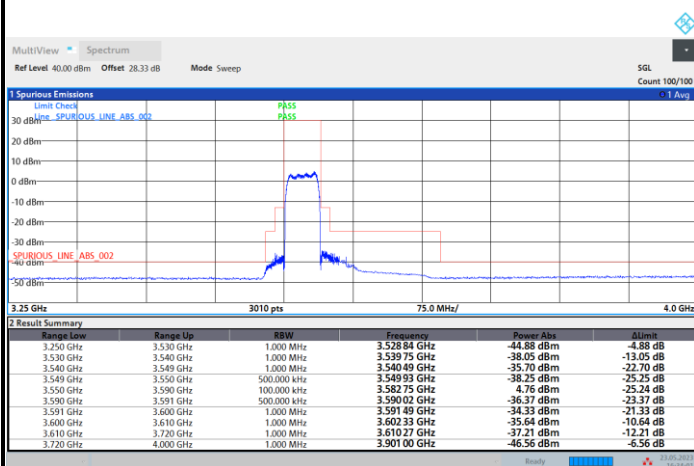
QPSK



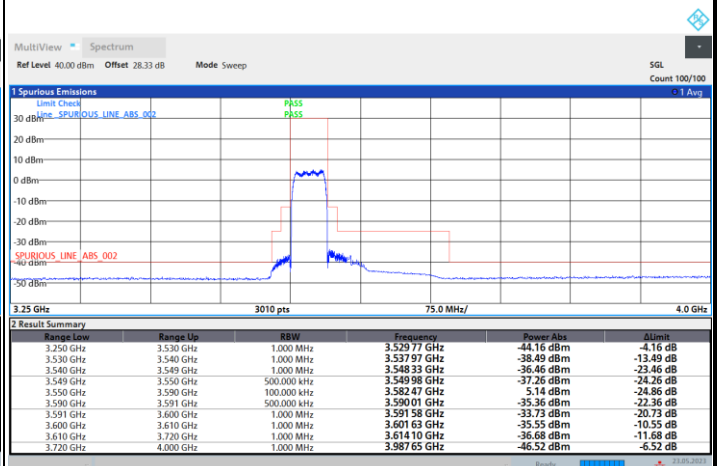
16QAM



64QAM



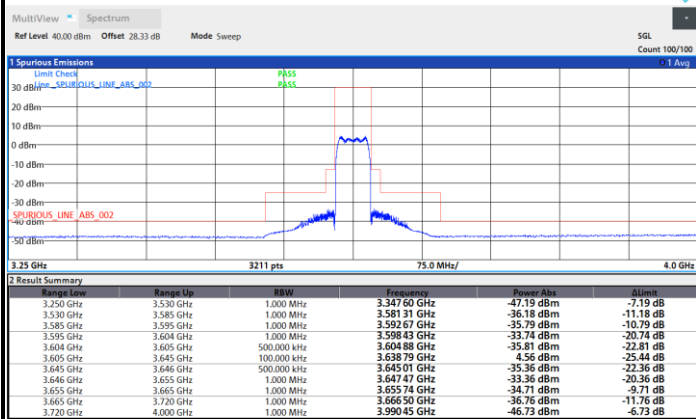
256QAM





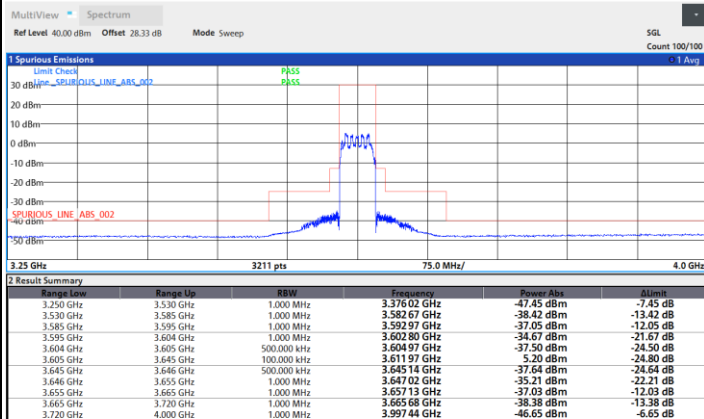
FR1 n48 / 40MHz / Middle Channel / MASK

QPSK



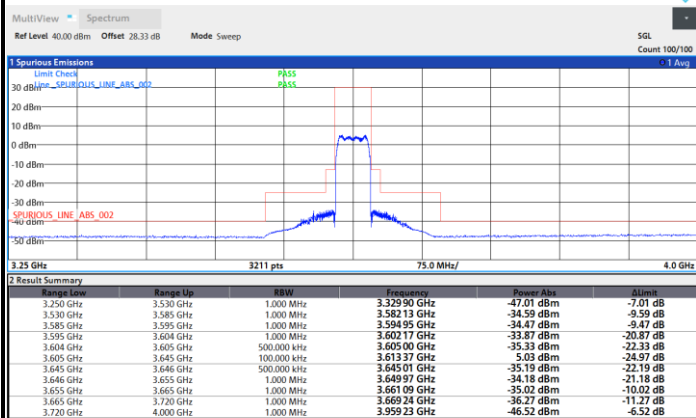
02:12:12 23.05.2023

16QAM



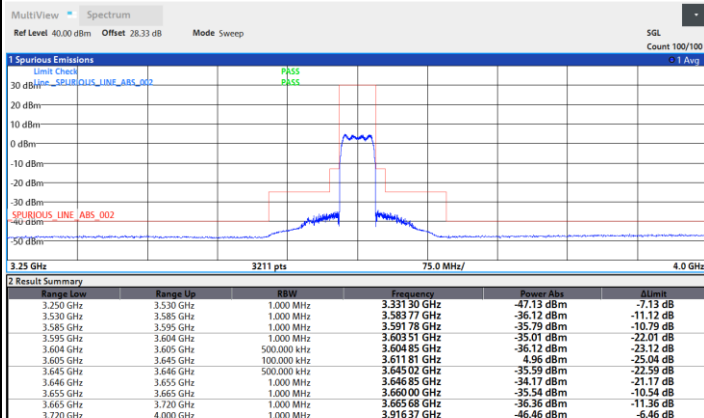
11:19:39 23.05.2023

64QAM



16:51:41 23.05.2023

256QAM

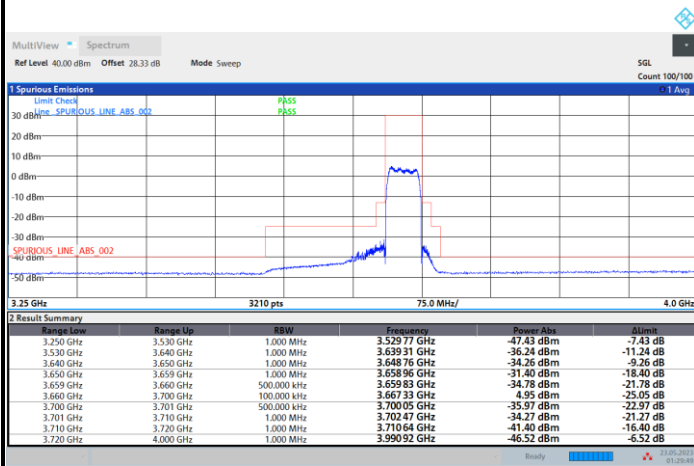


20:32:07 23.05.2023



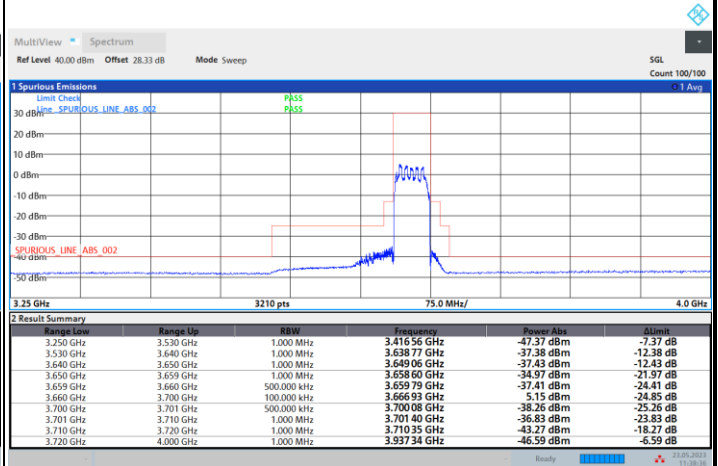
FR1 n48 / 40MHz / Highest Channel / MASK

QPSK



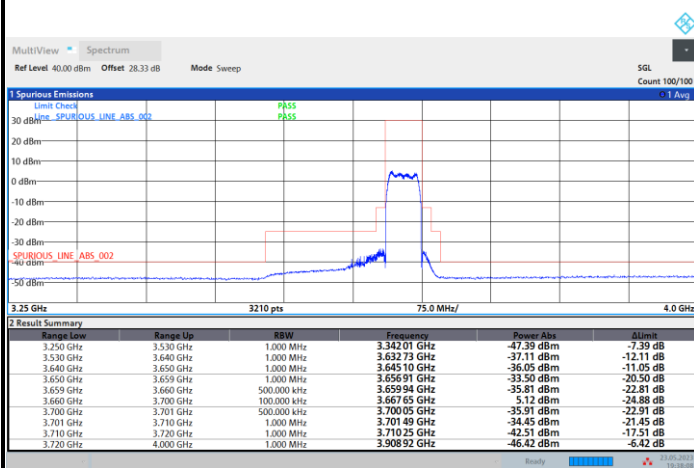
01:29:50 23.05.2023

16QAM



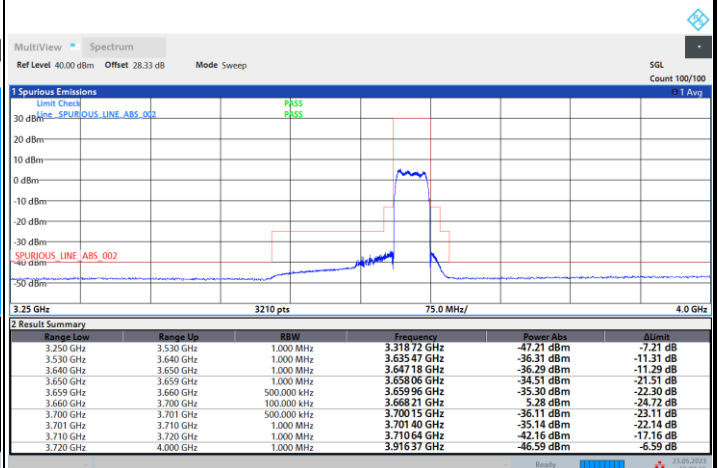
11:30:38 23.05.2023

64QAM



19:38:09 23.05.2023

256QAM

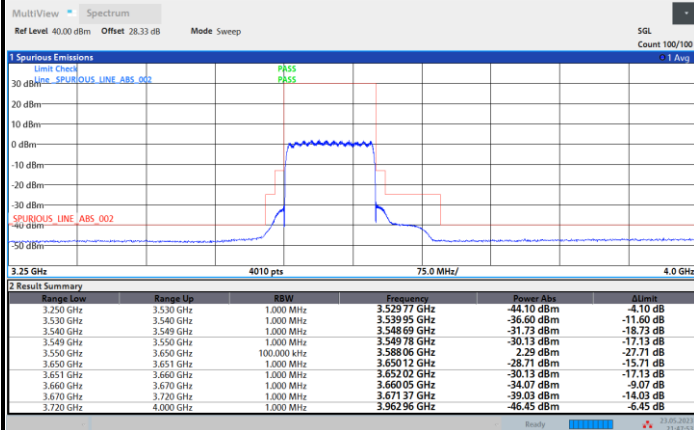


19:08:55 23.05.2023



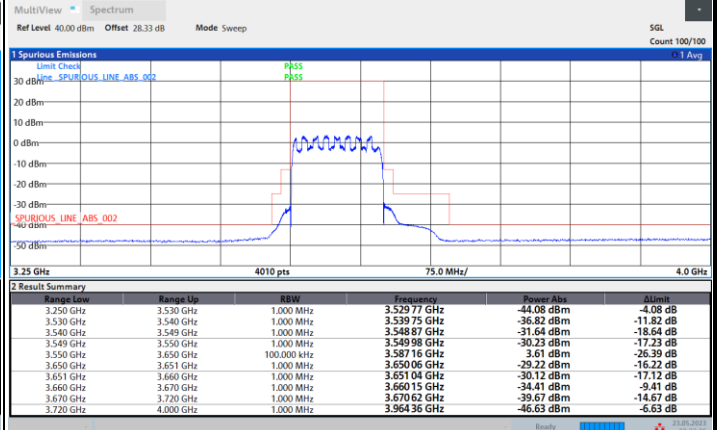
FR1 n48 / 100MHz / Lowest Channel / MASK

QPSK



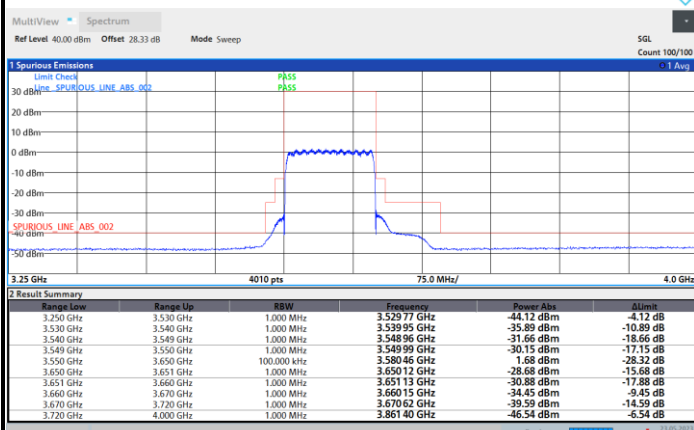
21:47:53 23.05.2023

16QAM



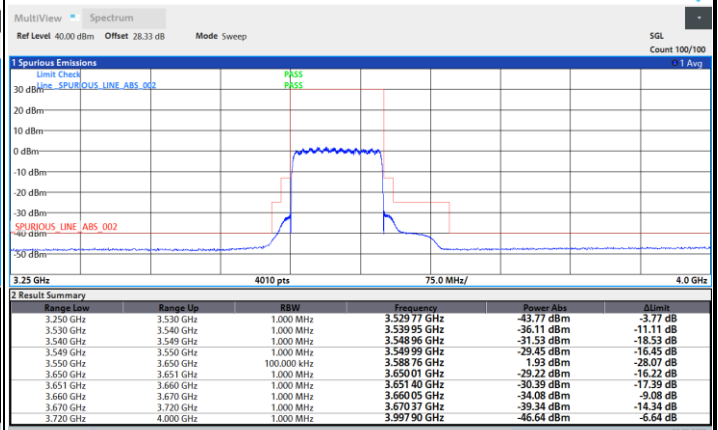
22:23:26 23.05.2023

64QAM



22:42:53 23.05.2023

256QAM

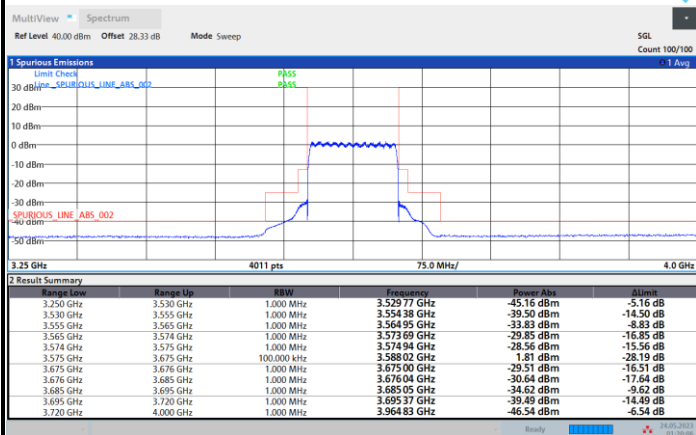


23:21:53 23.05.2023



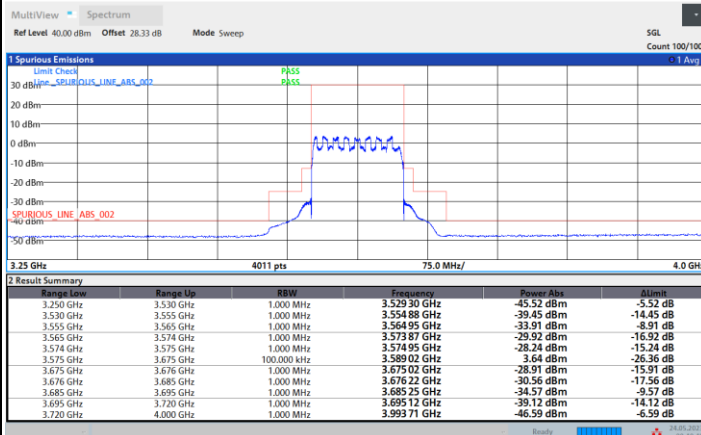
FR1 n48 / 100MHz / Middle Channel / MASK

QPSK



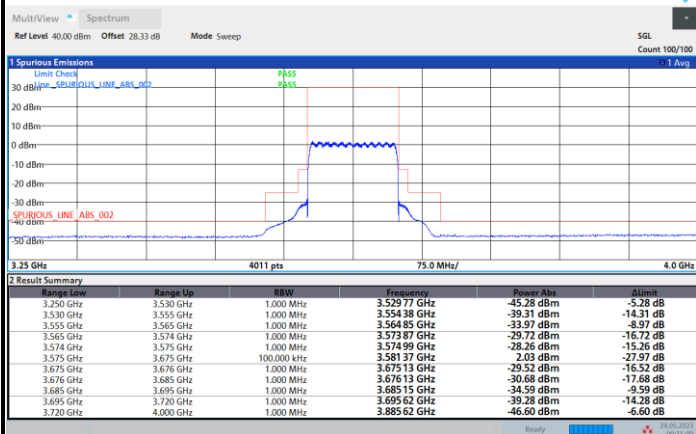
01:20:06 24.05.2023

16QAM



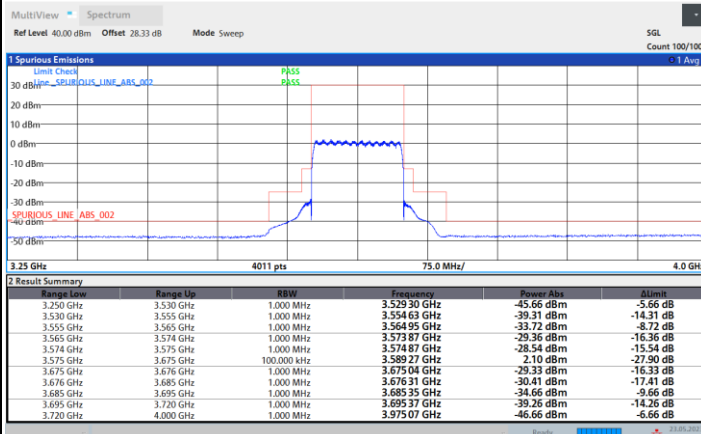
00:40:48 24.05.2023

64QAM



00:15:00 24.05.2023

256QAM

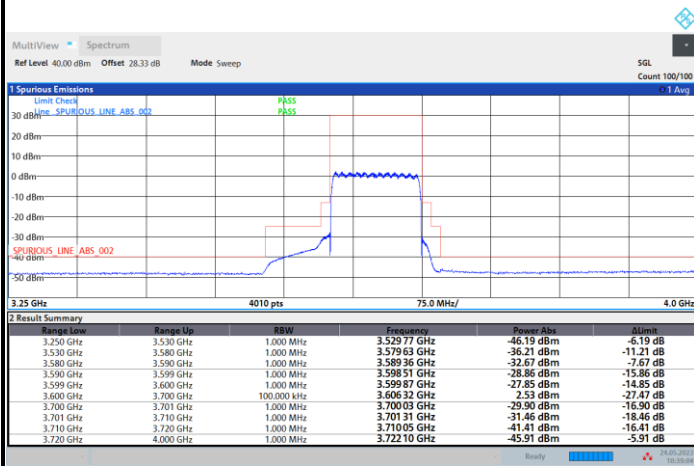


23:36:27 23.05.2023



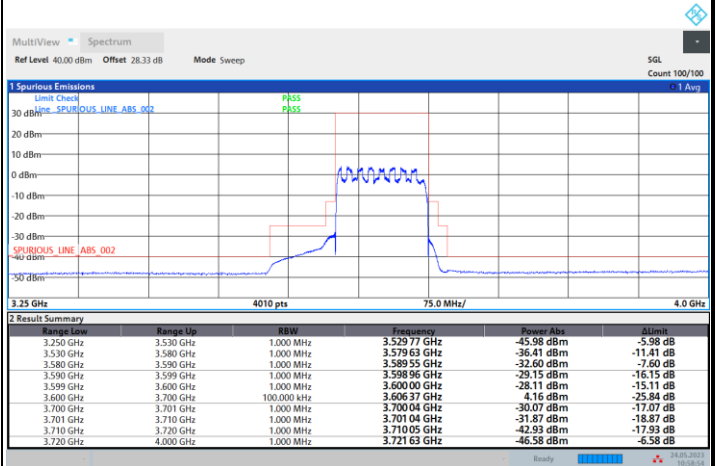
FR1 n48 / 100MHz / Highest Channel / MASK

QPSK



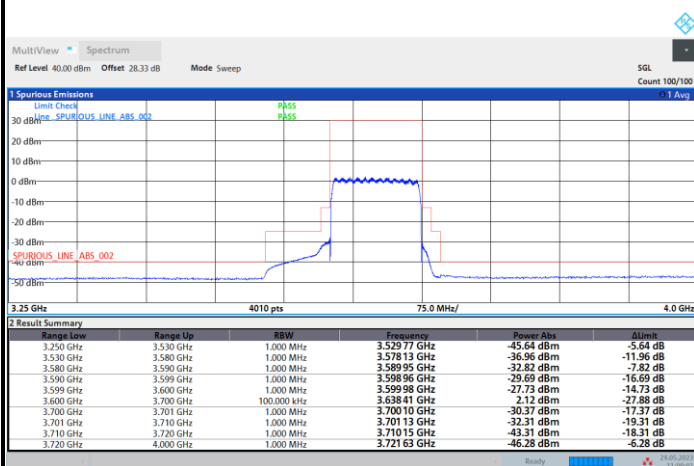
10:39:05 24.05.2023

16QAM



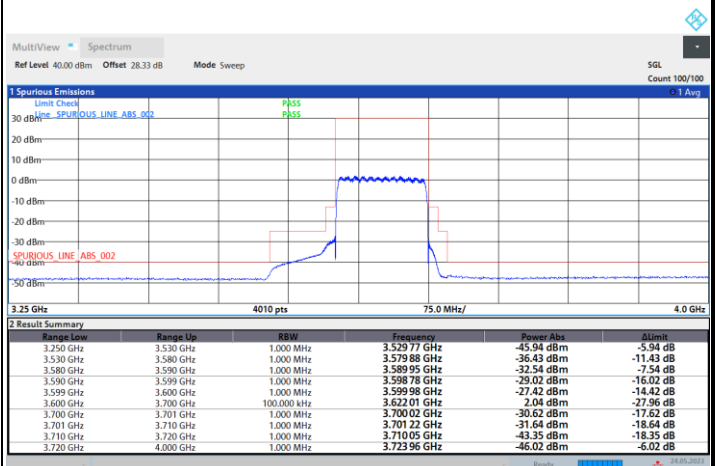
10:58:54 24.05.2023

64QAM



11:09:02 24.05.2023

256QAM



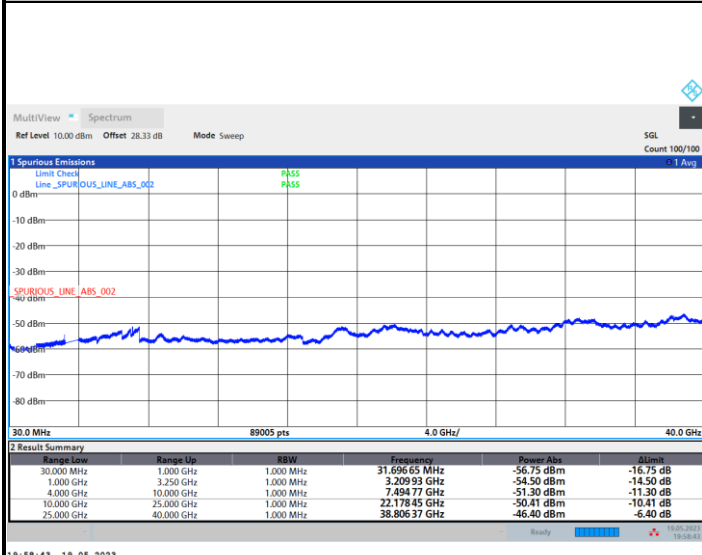
11:20:44 24.05.2023



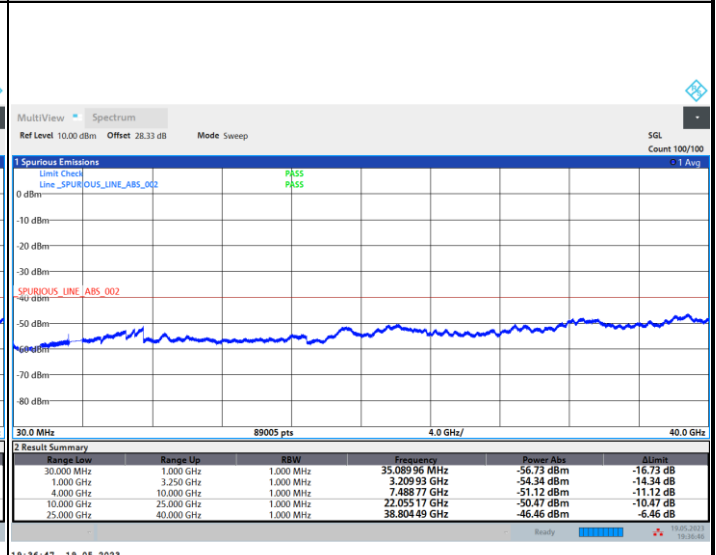
Conducted Spurious Emission

FR1 n48 / 10MHz / QPSK / CSE

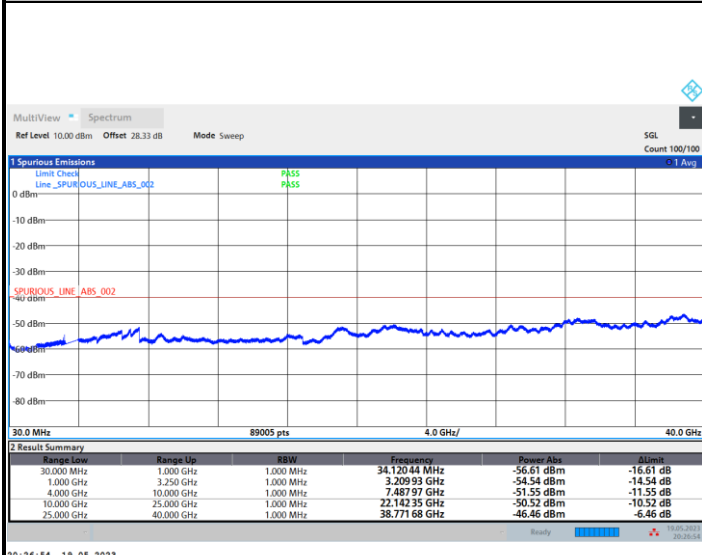
Lowest Channel



Middle Channel



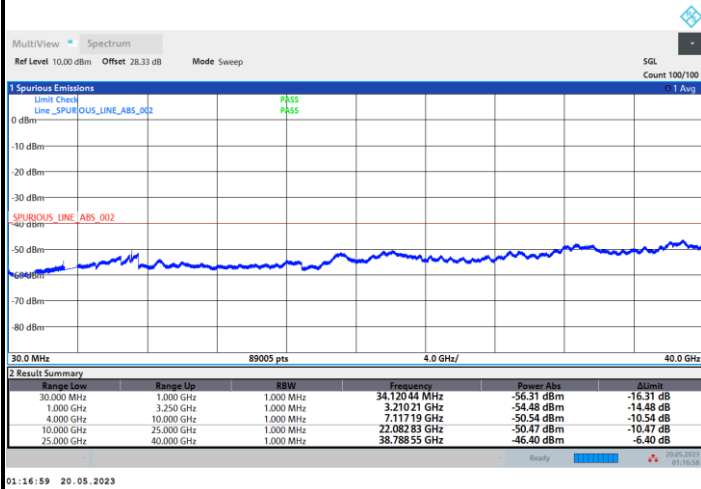
Highest Channel



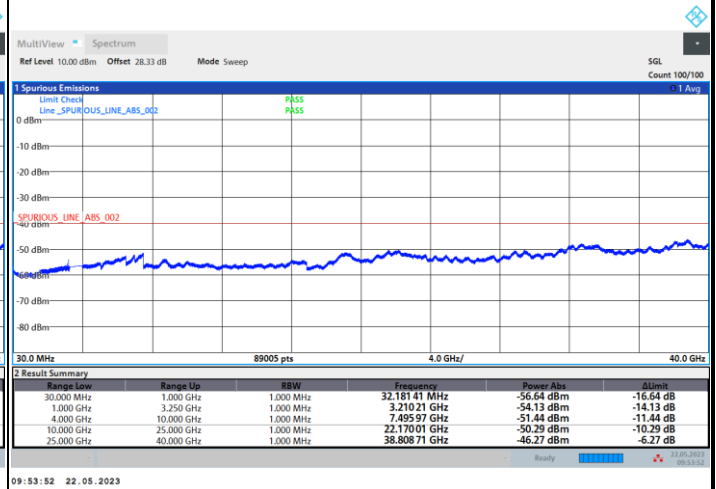


FR1 n48 / 20MHz / QPSK / CSE

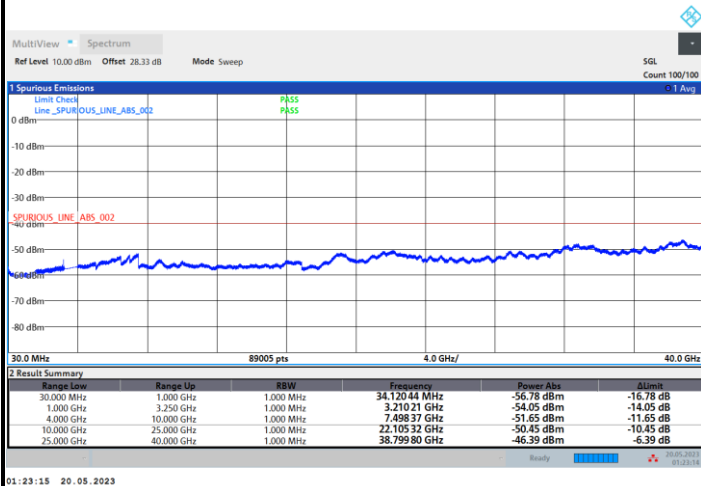
Lowest Channel



Middle Channel



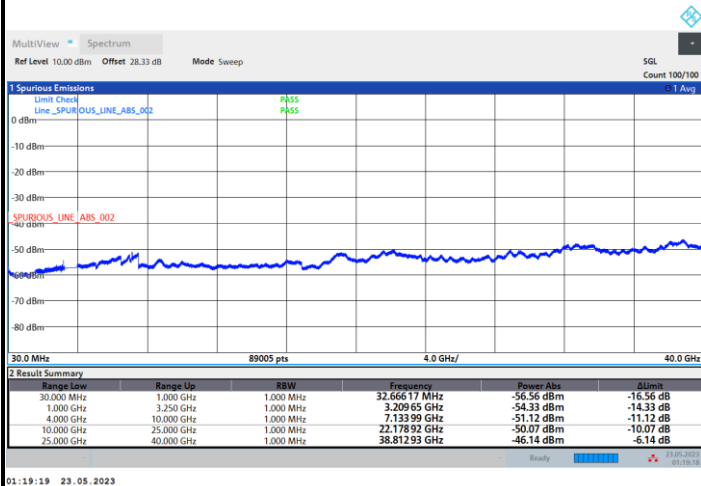
Highest Channel



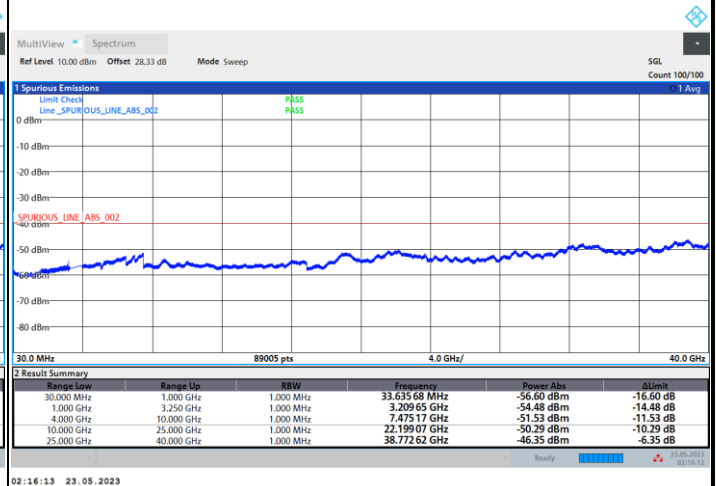


FR1 n48 / 40MHz / QPSK / CSE

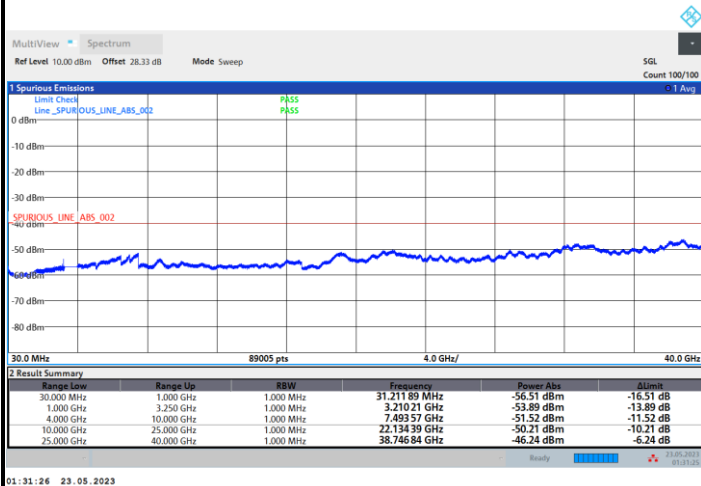
Lowest Channel



Middle Channel



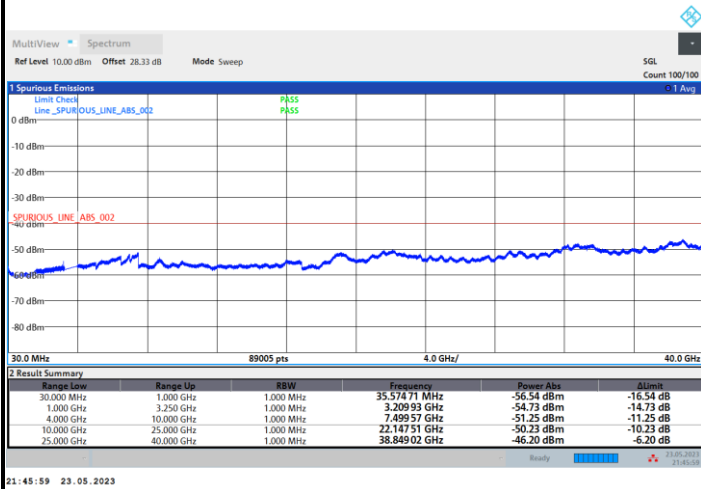
Highest Channel



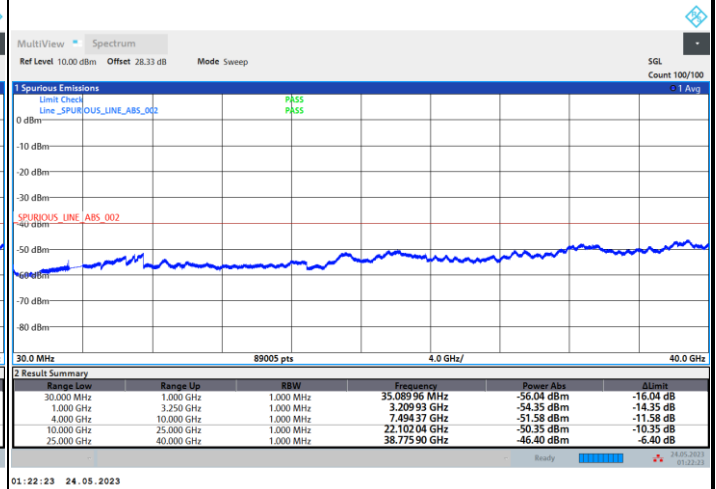


FR1 n48 / 100MHz / QPSK / CSE

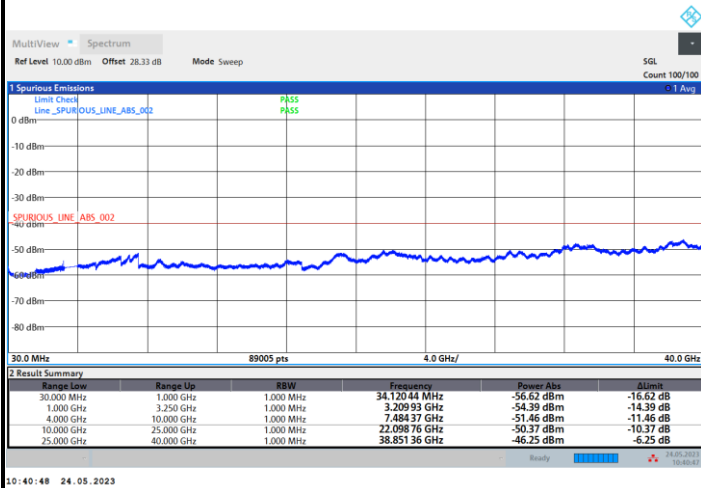
Lowest Channel



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	1.6552	PASS
40	Normal Voltage	0.4414	
30	Normal Voltage	0.0552	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.4414	
0	Normal Voltage	0.2759	
-10	Normal Voltage	0.6069	
-20	Normal Voltage	0.7172	
-30	Normal Voltage	1.1035	
20	Maximum Voltage	0.2759	
20	Normal Voltage	0.3862	
20	Minimum Voltage	0.4966	

Note:

1. Normal Voltage = 12 V. ; Minimum Voltage = 11.2 V. ; Maximum Voltage = 13.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

External Antenna

SA Band 48

SA Band 48 / 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	-53.23	-40	-13.23	-46.65	-62.23	1.30	10.30	H
	10800	-58.37	-40	-18.37	-56.11	-68.82	1.59	12.04	H
	14400	-53.31	-40	-13.31	-53.56	-64.25	1.92	12.86	H
	21600	-69.52	-40	-29.52	-77.34	-86.30	2.10	18.88	H
	25200	-67.53	-40	-27.53	-78.16	-84.32	2.27	19.06	H
	28800	-64.76	-40	-24.76	-76.66	-80.94	2.80	18.98	H
									H
	7200	-50.07	-40	-10.07	-44.97	-59.07	1.30	10.30	V
	10800	-59.38	-40	-19.38	-56.04	-69.83	1.59	12.04	V
	14400	-51.57	-40	-11.57	-52.15	-62.51	1.92	12.86	V
	21600	-68.75	-40	-28.75	-77.06	-85.53	2.10	18.88	V
	25200	-66.74	-40	-26.74	-77.82	-83.53	2.27	19.06	V
	28800	-63.92	-40	-23.92	-76.26	-80.10	2.80	18.98	V
									V



Middle	7250	-53.27	-40	-13.27	-46.83	-62.73	1.87	11.33	H
	10875	-57.96	-40	-17.96	-55.82	-66.32	2.21	10.58	H
	14500	-52.62	-40	-12.62	-52.94	-62.10	2.62	12.10	H
	18125	-67.50	-40	-27.50	-73.03	-81.87	3.23	17.60	H
	21750	-69.13	-40	-29.13	-76.77	-84.34	3.44	18.65	H
	25375	-66.28	-40	-26.28	-76.8	-81.34	3.79	18.85	H
									H
	7250	-49.05	-40	-9.05	-43.93	-58.51	1.87	11.33	V
	10875	-58.64	-40	-18.64	-55.48	-67.00	2.21	10.58	V
	14500	-50.31	-40	-10.31	-51.02	-59.79	2.62	12.10	V
	18125	-67.08	-40	-27.08	-72.66	-81.45	3.23	17.60	V
	21750	-68.83	-40	-28.83	-76.95	-84.04	3.44	18.65	V
	25375	-66.02	-40	-26.02	-77.03	-81.08	3.79	18.85	V
Highest	7300	-56.82	-40	-16.82	-50.51	-66.28	1.89	11.35	H
	10950	-58.03	-40	-18.03	-56	-66.35	2.21	10.53	H
	14600	-55.10	-40	-15.10	-55.73	-64.81	2.61	12.32	H
	18250	-68.84	-40	-28.84	-74.29	-83.20	3.24	17.60	H
	21900	-69.99	-40	-29.99	-77.45	-85.31	3.48	18.80	H
	25550	-66.88	-40	-26.88	-77.4	-82.06	3.83	19.01	H
									H
	7300	-54.75	-40	-14.75	-49.61	-64.21	1.89	11.35	V
	10950	-58.87	-40	-18.87	-55.89	-67.19	2.21	10.53	V
	14600	-51.77	-40	-11.77	-52.72	-61.48	2.61	12.32	V
	18250	-68.97	-40	-28.97	-74.49	-83.33	3.24	17.60	V
	21900	-69.01	-40	-29.01	-76.95	-84.33	3.48	18.80	V
	25550	-66.98	-40	-26.98	-78.02	-82.16	3.83	19.01	V
									V

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

**Internal Antenna****SA Band 48**

SA Band 48 / 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	-57.18	-40	-17.18	-50.6	-66.18	1.30	10.30	H
	10800	-58.26	-40	-18.26	-56	-68.71	1.59	12.04	H
	14400	-57.25	-40	-17.25	-57.5	-68.19	1.92	12.86	H
	21600	-67.79	-40	-27.79	-75.61	-84.57	2.10	18.88	H
	25200	-66.10	-40	-26.10	-76.73	-82.89	2.27	19.06	H
	28800	-64.27	-40	-24.27	-76.17	-80.45	2.80	18.98	H
	7200	-54.22	-40	-14.22	-49.12	-63.22	1.30	10.30	V
	10800	-59.55	-40	-19.55	-56.21	-70.00	1.59	12.04	V
	14400	-56.30	-40	-16.30	-56.88	-67.24	1.92	12.86	V
	21600	-67.68	-40	-27.68	-75.99	-84.46	2.10	18.88	V
	25200	-65.91	-40	-25.91	-76.99	-82.70	2.27	19.06	V
	28800	-64.24	-40	-24.24	-76.58	-80.42	2.80	18.98	V
Middle	7250	-55.37	-40	-15.37	-48.93	-64.83	1.87	11.33	H
	10875	-57.37	-40	-17.37	-55.23	-65.73	2.21	10.58	H
	14500	-57.92	-40	-17.92	-58.24	-67.40	2.62	12.10	H
	18125	-67.51	-40	-27.51	-73.04	-81.88	3.23	17.60	H
	21750	-69.04	-40	-29.04	-76.68	-84.25	3.44	18.65	H
	25375	-66.42	-40	-26.42	-76.94	-81.48	3.79	18.85	H
	7250	-51.04	-40	-11.04	-45.92	-60.50	1.87	11.33	V
	10875	-58.97	-40	-18.97	-55.81	-67.33	2.21	10.58	V
	14500	-55.36	-40	-15.36	-56.07	-64.84	2.62	12.10	V
	18125	-67.01	-40	-27.01	-72.59	-81.38	3.23	17.60	V
	21750	-68.38	-40	-28.38	-76.5	-83.59	3.44	18.65	V
	25375	-65.73	-40	-25.73	-76.74	-80.79	3.79	18.85	V



Highest	7300	-52.80	-40	-12.80	-46.49	-62.26	1.89	11.35	H
	10950	-57.88	-40	-17.88	-55.85	-66.20	2.21	10.53	H
	14600	-57.54	-40	-17.54	-58.17	-67.25	2.61	12.32	H
	18250	-68.17	-40	-28.17	-73.62	-82.53	3.24	17.60	H
	21900	-69.12	-40	-29.12	-76.58	-84.44	3.48	18.80	H
	25550	-66.69	-40	-26.69	-77.21	-81.87	3.83	19.01	H
	7300	-50.65	-40	-10.65	-45.51	-60.11	1.89	11.35	V
	10950	-58.93	-40	-18.93	-55.95	-67.25	2.21	10.53	V
	14600	-56.44	-40	-16.44	-57.39	-66.15	2.61	12.32	V
	18250	-68.42	-40	-28.42	-73.94	-82.78	3.24	17.60	V
	21900	-68.02	-40	-28.02	-75.96	-83.34	3.48	18.80	V
	25550	-66.30	-40	-26.30	-77.34	-81.48	3.83	19.01	V
									V

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