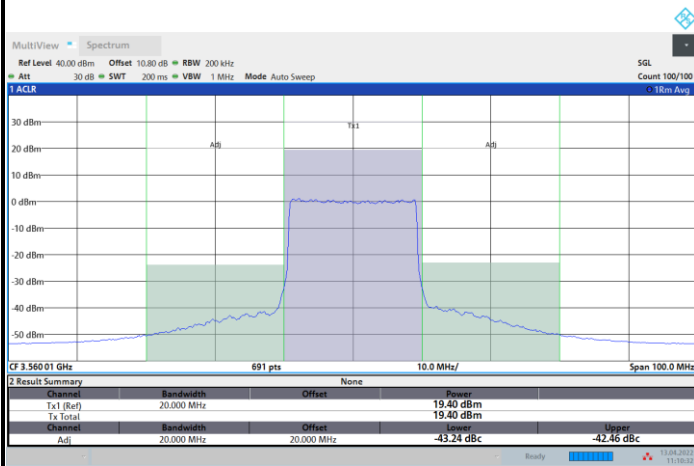




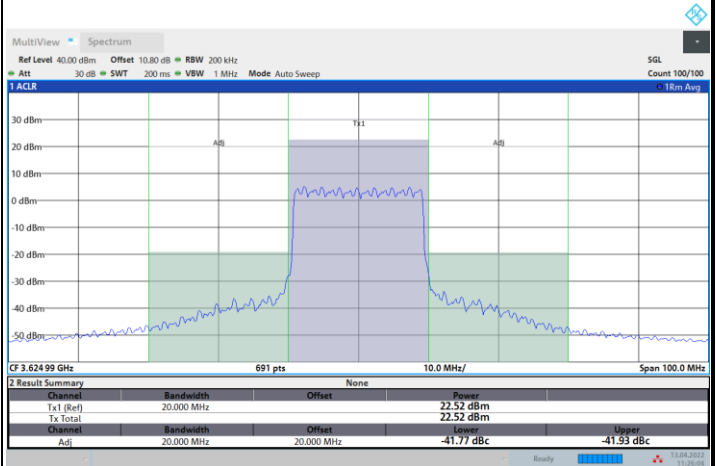
FR1 n48 / 20MHz / CP OFDM / QPSK / Full RB

Lowest Channel



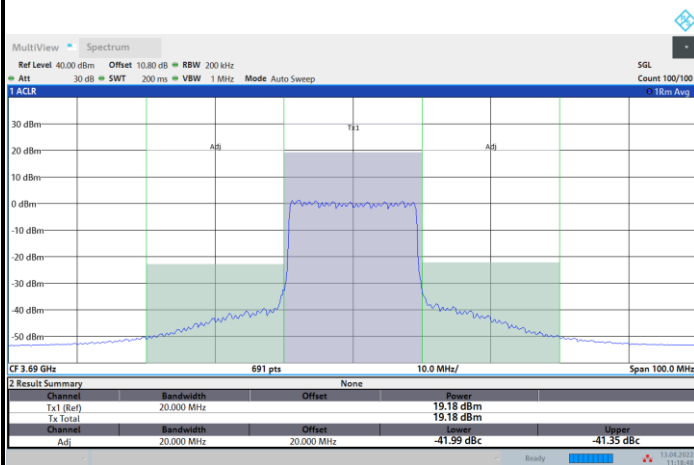
11:10:32 13.04.2022

Middle Channel



11:26:04 13.04.2022

Highest Channel

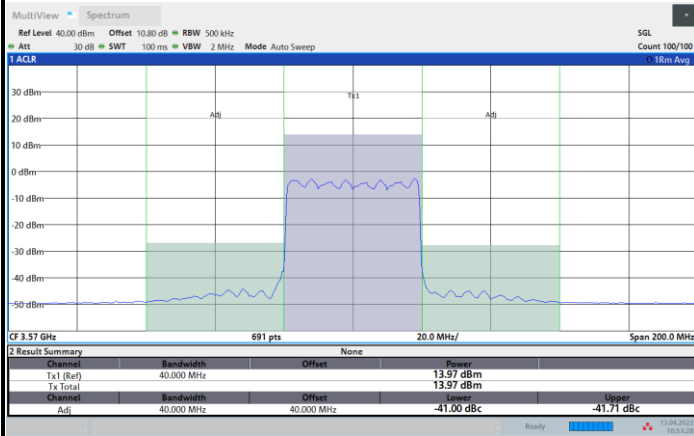


11:18:49 13.04.2022

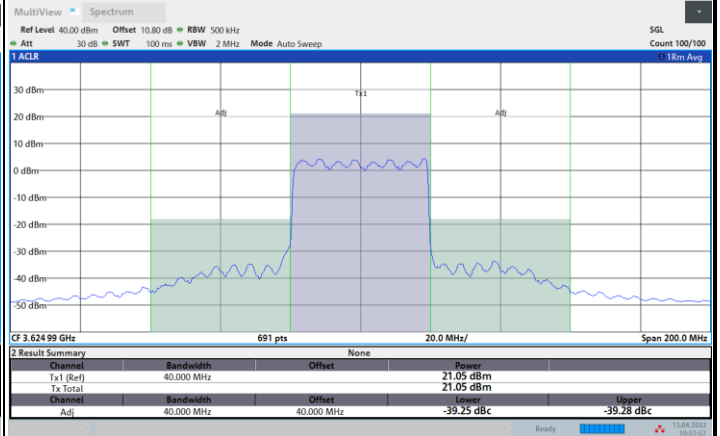


FR1 n48 / 40MHz / CP OFDM / QPSK / Full RB

Lowest Channel



Middle Channel



Highest Channel

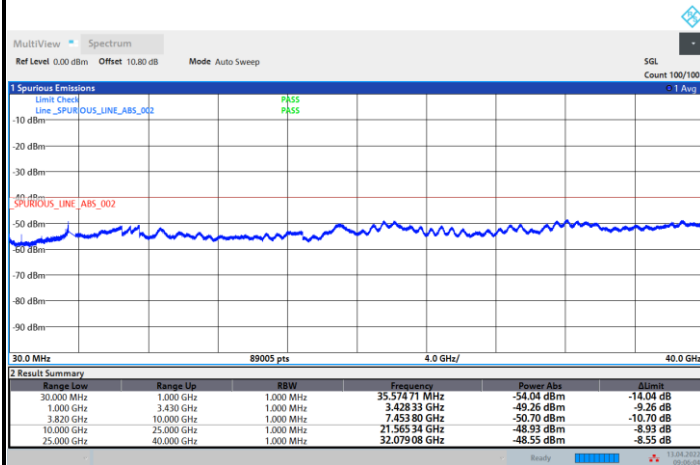




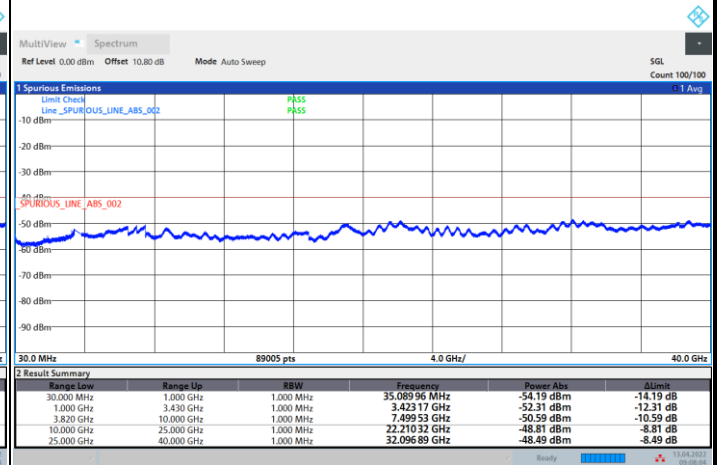
Conducted Spurious Emission

FR1 n48 / 10MHz / DFT-S OFDM / QPSK / 1RB1

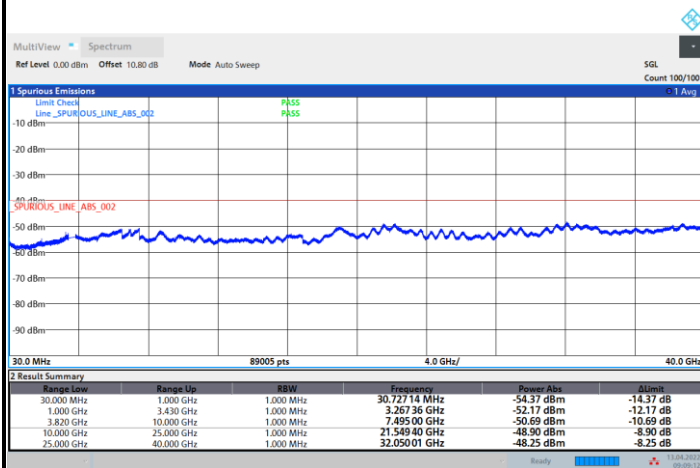
Lowest Channel



Middle Channel



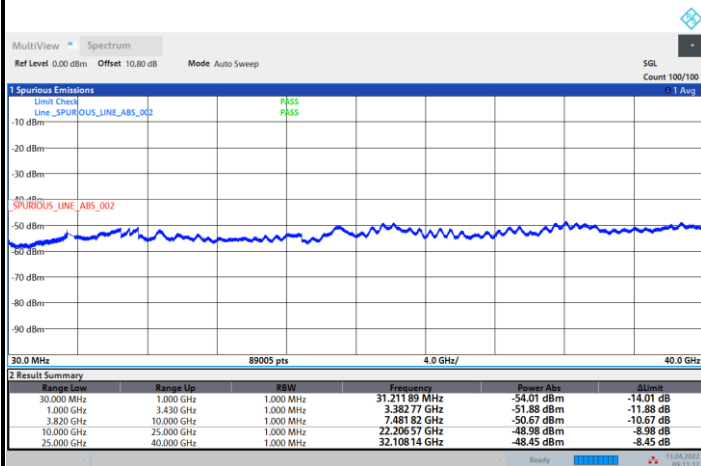
Highest Channel





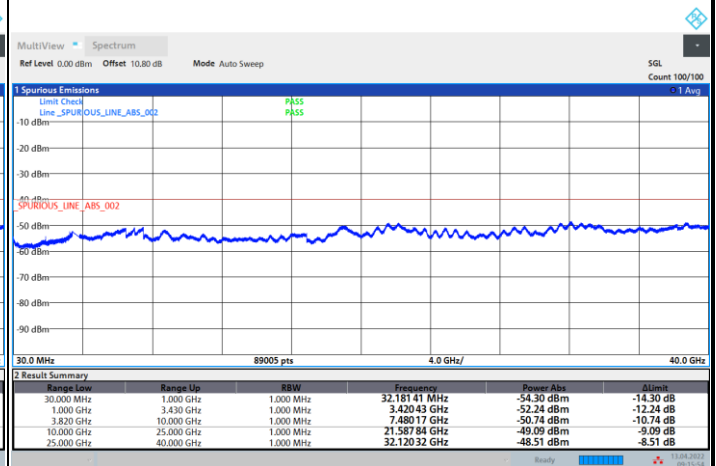
FR1 n48 / 15MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



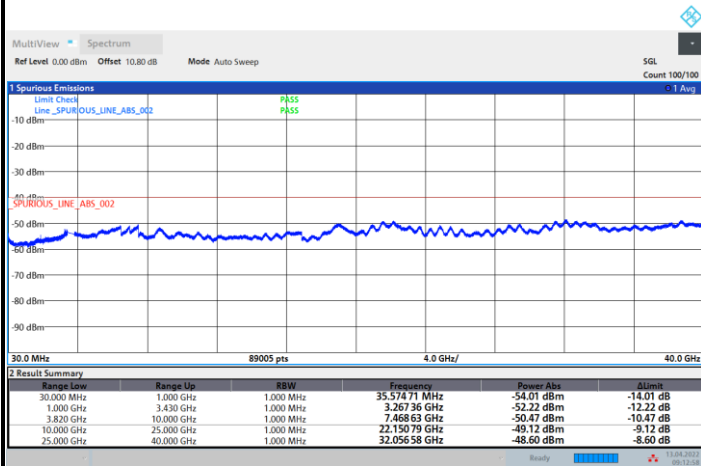
09:11:18 13.04.2022

Middle Channel



09:15:54 13.04.2022

Highest Channel

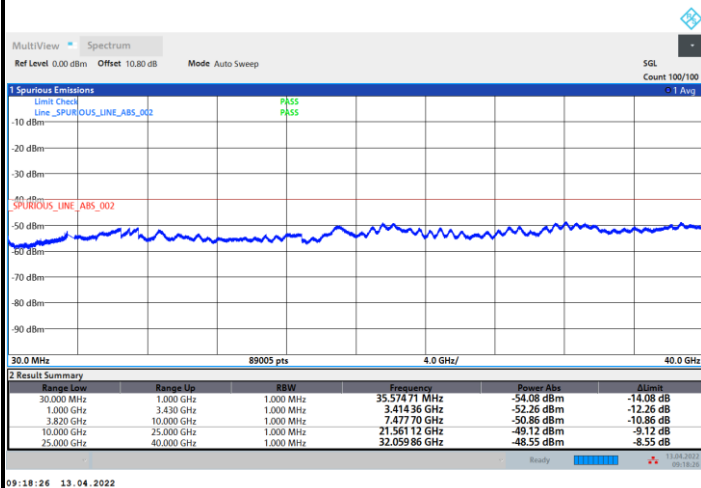


09:12:59 13.04.2022

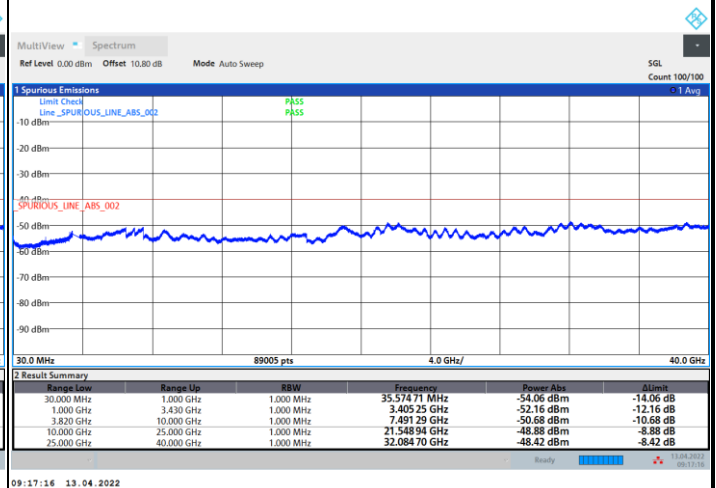


FR1 n48 / 20MHz / DFT-S OFDM / QPSK / 1RB1

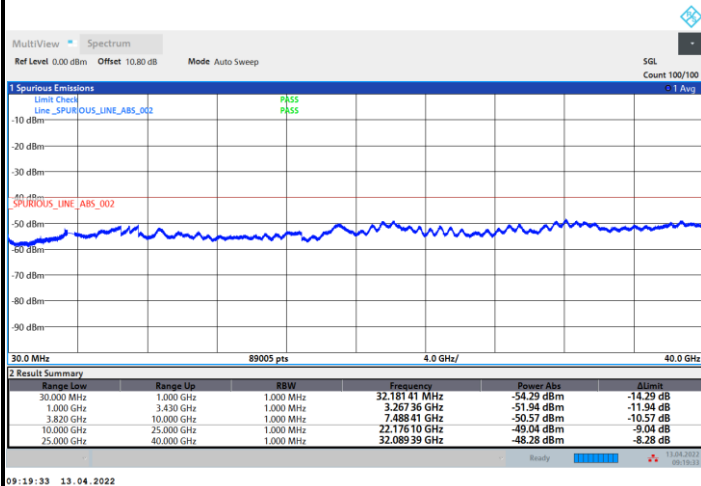
Lowest Channel



Middle Channel



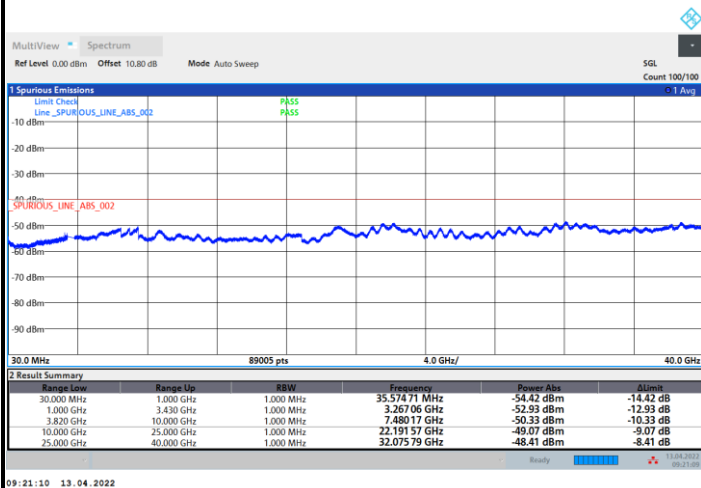
Highest Channel



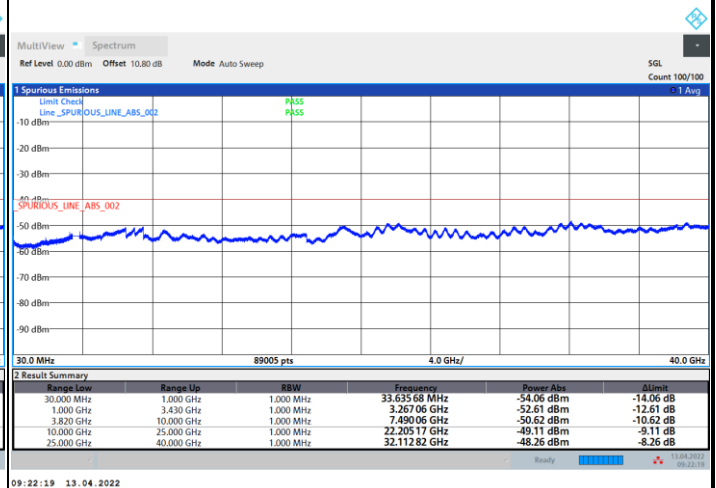


FR1 n48 / 40MHz / DFT-S OFDM / QPSK / 1RB1

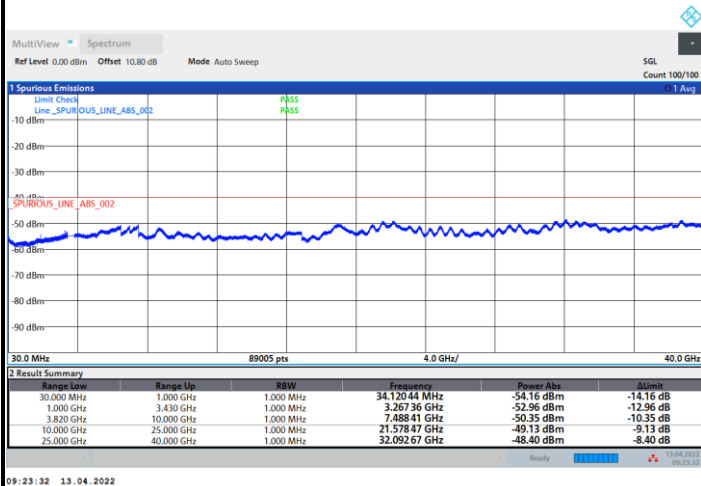
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n48 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0034	

Note:

1. Normal Voltage = 3.86 V. ; Battery End Point (ACL RP) = 3.40 V. ; Maximum Voltage = 4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

<Primary Antenna>

5G NR n48

5G NR n48 / 40MHz / 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	7105	-57.66	-40	-17.66	-55.79	-67.36	1.84	11.54	H
	10655	-53.63	-40	-13.63	-56.24	-62.10	2.23	10.71	H
	14211	-49.05	-40	-9.05	-57.79	-58.67	2.65	12.27	H
	21318	-62.97	-40	-22.97	-77.37	-77.83	3.32	18.18	H
	24870	-59.04	-40	-19.04	-77.32	-73.81	3.71	18.48	H
	28418	-55.72	-40	-15.72	-76.23	-71.18	3.99	19.45	H
									H
	7105	-57.24	-40	-17.24	-55.62	-66.94	1.84	11.54	V
	10655	-53.60	-40	-13.60	-55.8	-62.07	2.23	10.71	V
	14211	-49.22	-40	-9.22	-57.85	-58.84	2.65	12.27	V
	21318	-63.59	-40	-23.59	-77.69	-78.45	3.32	18.18	V
	24870	-59.69	-40	-19.69	-77.65	-74.46	3.71	18.48	V
	28418	-56.14	-40	-16.14	-76.23	-71.60	3.99	19.45	V
Middle	7215	-57.35	-40	-17.35	-55.78	-66.81	1.85	11.31	H
	10820	-52.46	-40	-12.46	-55.4	-60.85	2.22	10.61	H
	14431	-49.05	-40	-9.05	-58	-58.56	2.63	12.14	H
	18033	-59.79	-40	-19.79	-71.22	-74.16	3.23	17.60	H
	21640	-61.08	-40	-21.08	-76.18	-76.21	3.41	18.54	H
	25250	-58.88	-40	-18.88	-77.19	-73.82	3.76	18.70	H
									H
	7215	-56.95	-40	-16.95	-55.75	-66.41	1.85	11.31	V
	10820	-52.53	-40	-12.53	-55.21	-60.92	2.22	10.61	V
	14431	-48.81	-40	-8.81	-58.12	-58.32	2.63	12.14	V
	18033	-60.75	-40	-20.75	-71.88	-75.12	3.23	17.60	V
	21640	-62.13	-40	-22.13	-76.91	-77.26	3.41	18.54	V
	25250	-60.20	-40	-20.20	-78.22	-75.14	3.76	18.70	V



Highest	7325	-50.69	-40	-10.69	-49.39	-60.15	1.90	11.36	H
	10985	-49.15	-40	-9.15	-52.42	-57.46	2.20	10.51	H
	14651	-48.72	-40	-8.72	-57.79	-58.55	2.60	12.43	H
	18310	-62.41	-40	-22.41	-74.11	-76.77	3.24	17.60	H
	21973	-59.64	-40	-19.64	-75.08	-75.01	3.50	18.87	H
	25635	-58.40	-40	-18.40	-76.89	-73.57	3.85	19.03	H
									H
	7325	-52.68	-40	-12.68	-51.59	-62.14	1.90	11.36	V
	10985	-50.12	-40	-10.12	-53.29	-58.43	2.20	10.51	V
	14651	-48.32	-40	-8.32	-58.19	-58.15	2.60	12.43	V
	18310	-63.39	-40	-23.39	-74.83	-77.75	3.24	17.60	V
	21973	-62.78	-40	-22.78	-77.85	-78.15	3.50	18.87	V
	25635	-59.25	-40	-19.25	-77.47	-74.42	3.85	19.03	V
									V

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



<ASDIV Antenna>

5G NR n48

5G NR n48 / 40MHz / 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	7105	-57.52	-40	-17.52	-55.65	-67.22	1.84	11.54	H
	10655	-53.19	-40	-13.19	-55.8	-61.66	2.23	10.71	H
	14211	-49.11	-40	-9.11	-57.85	-58.73	2.65	12.27	H
	21318	-63.19	-40	-23.19	-77.59	-78.05	3.32	18.18	H
	24870	-59.31	-40	-19.31	-77.59	-74.08	3.71	18.48	H
	28418	-55.88	-40	-15.88	-76.39	-71.34	3.99	19.45	H
									H
	7105	-56.64	-40	-16.64	-55.02	-66.34	1.84	11.54	V
	10655	-53.62	-40	-13.62	-55.82	-62.09	2.23	10.71	V
	14211	-48.37	-40	-8.37	-57	-57.99	2.65	12.27	V
	21318	-63.59	-40	-23.59	-77.69	-78.45	3.32	18.18	V
	24870	-59.92	-40	-19.92	-77.88	-74.69	3.71	18.48	V
	28418	-56.18	-40	-16.18	-76.28	-71.64	3.99	19.45	V
									V
Middle	7215	-56.92	-40	-16.92	-55.35	-66.38	1.85	11.31	H
	10820	-52.33	-40	-12.33	-55.27	-60.72	2.22	10.61	H
	14431	-49.17	-40	-9.17	-58.12	-58.68	2.63	12.14	H
	18033	-60.52	-40	-20.52	-71.95	-74.89	3.23	17.60	H
	21640	-62.07	-40	-22.07	-77.17	-77.20	3.41	18.54	H
	25250	-59.82	-40	-19.82	-78.13	-74.76	3.76	18.70	H
									H
	7215	-56.20	-40	-16.20	-55	-65.66	1.85	11.31	V
	10820	-52.71	-40	-12.71	-55.39	-61.10	2.22	10.61	V
	14431	-48.89	-40	-8.89	-58.2	-58.40	2.63	12.14	V
	18033	-60.61	-40	-20.61	-71.74	-74.98	3.23	17.60	V
	21640	-62.22	-40	-22.22	-77	-77.35	3.41	18.54	V
	25250	-60.08	-40	-20.08	-78.1	-75.02	3.76	18.70	V
									V



Highest	7325	-55.92	-40	-15.92	-54.62	-65.38	1.90	11.36	H
	10985	-52.71	-40	-12.71	-55.98	-61.02	2.20	10.51	H
	14651	-49.11	-40	-9.11	-58.18	-58.94	2.60	12.43	H
	18310	-62.97	-40	-22.97	-74.67	-77.33	3.24	17.60	H
	21973	-63.16	-40	-23.16	-78.6	-78.53	3.50	18.87	H
	25635	-59.12	-40	-19.12	-77.61	-74.29	3.85	19.03	H
									H
	7325	-56.00	-40	-16.00	-54.91	-65.46	1.90	11.36	V
	10985	-52.62	-40	-12.62	-55.79	-60.93	2.20	10.51	V
	14651	-48.25	-40	-8.25	-58.12	-58.08	2.60	12.43	V
	18310	-63.38	-40	-23.38	-74.82	-77.74	3.24	17.60	V
	21973	-62.84	-40	-22.84	-77.91	-78.21	3.50	18.87	V
	25635	-59.08	-40	-19.08	-77.3	-74.25	3.85	19.03	V
									V

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



MIMO <Ant. 7+5>

5G NR n48

5G NR n48 / 40MHz / 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	7105	-57.74	-40	-17.74	-55.87	-67.44	1.84	11.54	H
	10655	-53.39	-40	-13.39	-56	-61.86	2.23	10.71	H
	14211	-48.81	-40	-8.81	-57.55	-58.43	2.65	12.27	H
	21318	-62.71	-40	-22.71	-77.11	-77.57	3.32	18.18	H
	24870	-58.78	-40	-18.78	-77.06	-73.55	3.71	18.48	H
	28418	-55.59	-40	-15.59	-76.1	-71.05	3.99	19.45	H
									H
	7105	-57.40	-40	-17.40	-55.78	-67.10	1.84	11.54	V
	10655	-53.34	-40	-13.34	-55.55	-61.81	2.23	10.71	V
	14211	-49.36	-40	-9.36	-57.99	-58.98	2.65	12.27	V
	21318	-63.11	-40	-23.11	-77.21	-77.97	3.32	18.18	V
	24870	-58.62	-40	-18.62	-76.58	-73.39	3.71	18.48	V
	28418	-56.29	-40	-16.29	-76.38	-71.75	3.99	19.45	V
									V
Middle	7215	-56.88	-40	-16.88	-55.31	-66.34	1.85	11.31	H
	10820	-52.23	-40	-12.23	-55.17	-60.62	2.22	10.61	H
	14431	-49.09	-40	-9.09	-58.04	-58.60	2.63	12.14	H
	18033	-60.59	-40	-20.59	-72.02	-74.96	3.23	17.60	H
	21640	-60.85	-40	-20.85	-75.95	-75.98	3.41	18.54	H
	25250	-59.15	-40	-19.15	-77.46	-74.09	3.76	18.70	H
									H
	7215	-56.92	-40	-16.92	-55.72	-66.38	1.85	11.31	V
	10820	-52.35	-40	-12.35	-55.03	-60.74	2.22	10.61	V
	14431	-48.67	-40	-8.67	-57.98	-58.18	2.63	12.14	V
	18033	-60.48	-40	-20.48	-71.61	-74.85	3.23	17.60	V
	21640	-61.27	-40	-21.27	-76.05	-76.40	3.41	18.54	V
	25250	-59.49	-40	-19.49	-77.51	-74.43	3.76	18.70	V
									V



Highest	7325	-56.14	-40	-16.14	-54.84	-65.60	1.90	11.36	H
	10985	-52.84	-40	-12.84	-56.11	-61.15	2.20	10.51	H
	14651	-49.19	-40	-9.19	-58.26	-59.02	2.60	12.43	H
	18310	-61.85	-40	-21.85	-73.55	-76.21	3.24	17.60	H
	21973	-61.35	-40	-21.35	-76.79	-76.72	3.50	18.87	H
	25636	-58.24	-40	-18.24	-76.74	-73.41	3.85	19.03	H
									H
	7325	-56.46	-40	-16.46	-55.37	-65.92	1.90	11.36	V
	10985	-52.63	-40	-12.63	-55.8	-60.94	2.20	10.51	V
	14651	-48.41	-40	-8.41	-58.28	-58.24	2.60	12.43	V
	18310	-62.37	-40	-22.37	-73.81	-76.73	3.24	17.60	V
	21973	-62.14	-40	-22.14	-77.21	-77.51	3.50	18.87	V
	25635	-58.50	-40	-18.50	-76.72	-73.67	3.85	19.03	V
									V

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

————THE END————