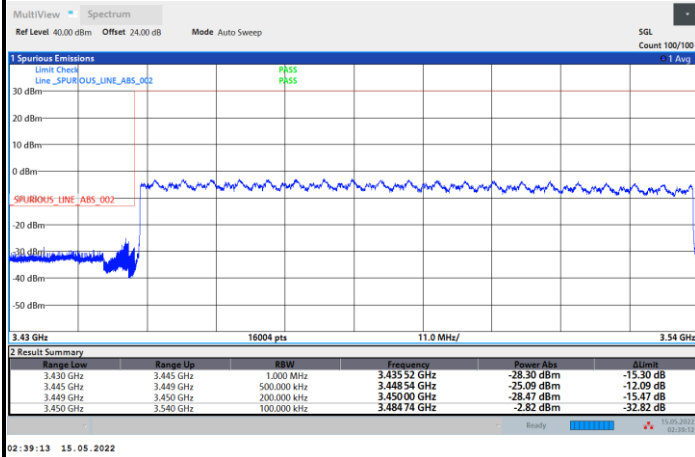


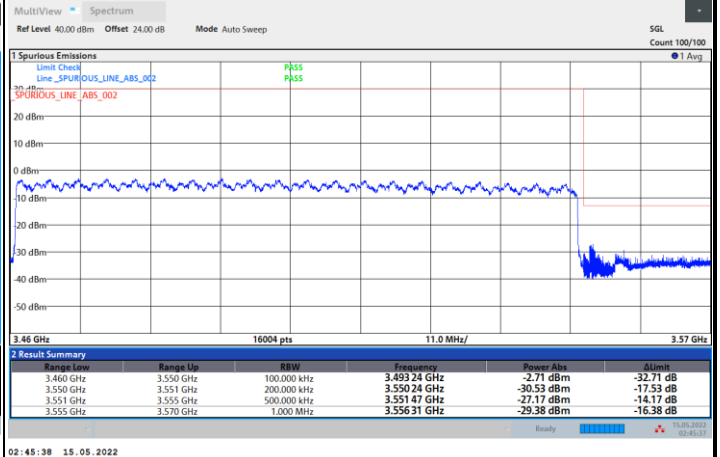


FR1 n77 / 90MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

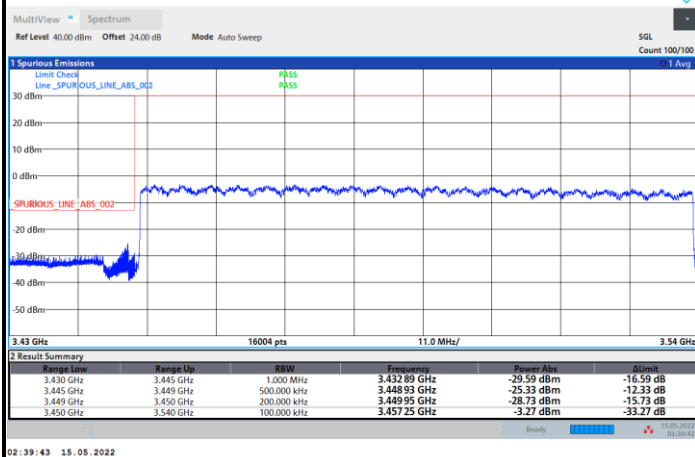


Highest Band Edge / Full RB

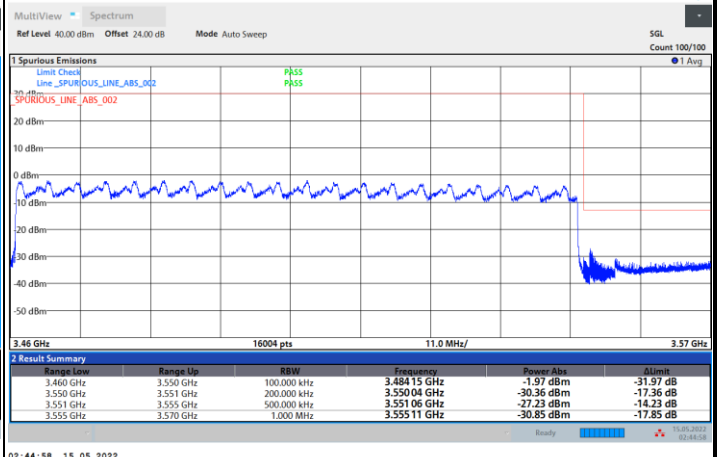


FR1 n77 / 90MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



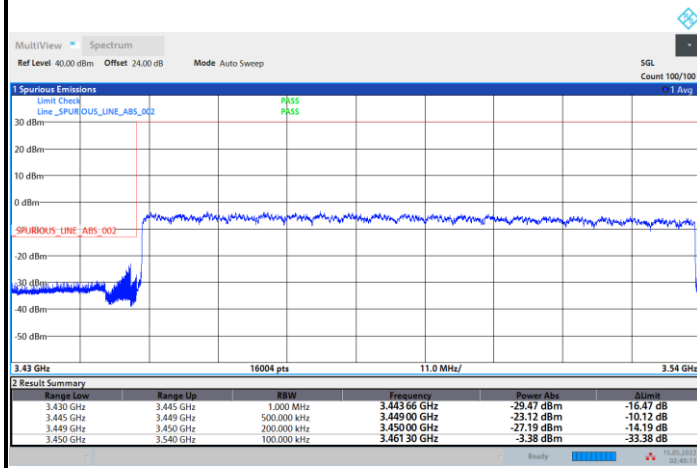
Highest Band Edge / Full RB





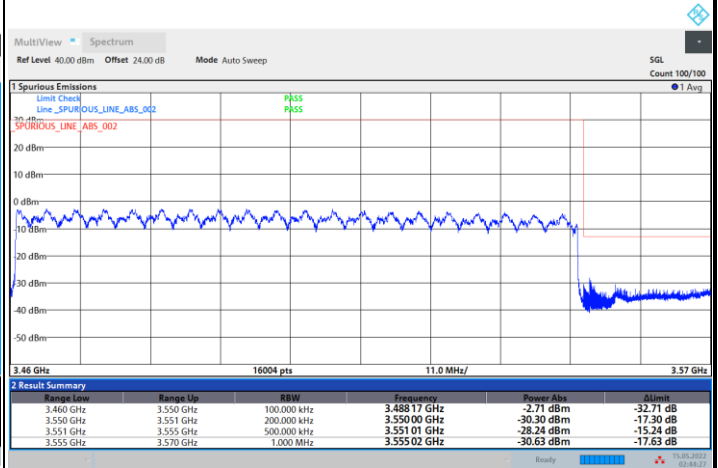
FR1 n77 / 90MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



02:40:13 15.05.2022

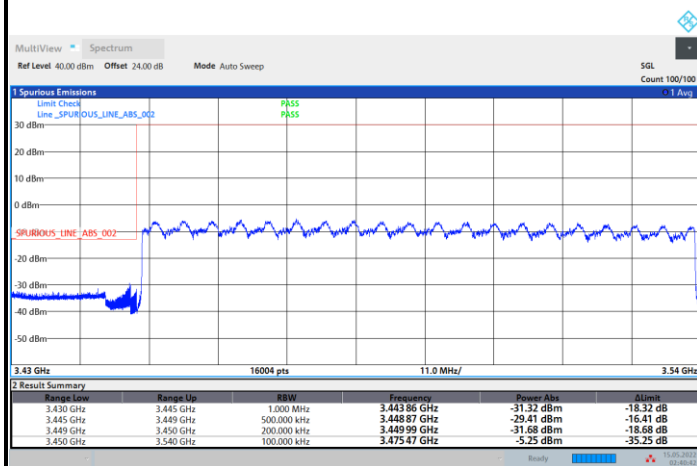
Highest Band Edge / Full RB



02:44:27 15.05.2022

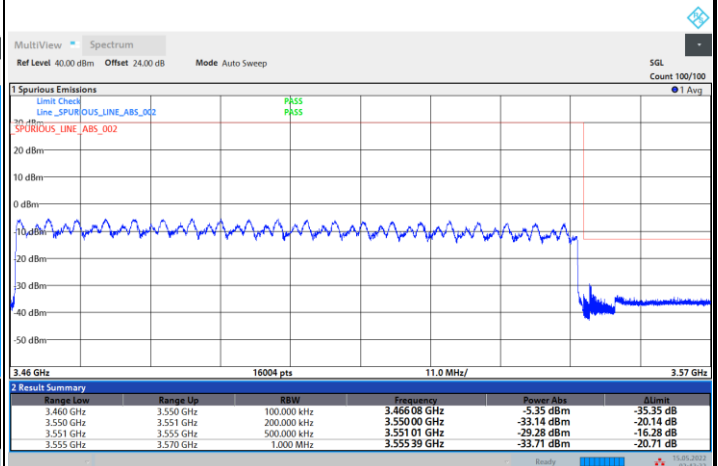
FR1 n77 / 90MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



02:40:42 15.05.2022

Highest Band Edge / Full RB

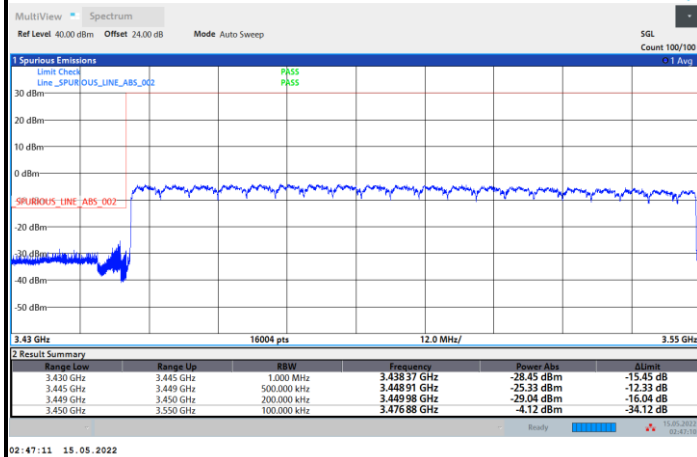


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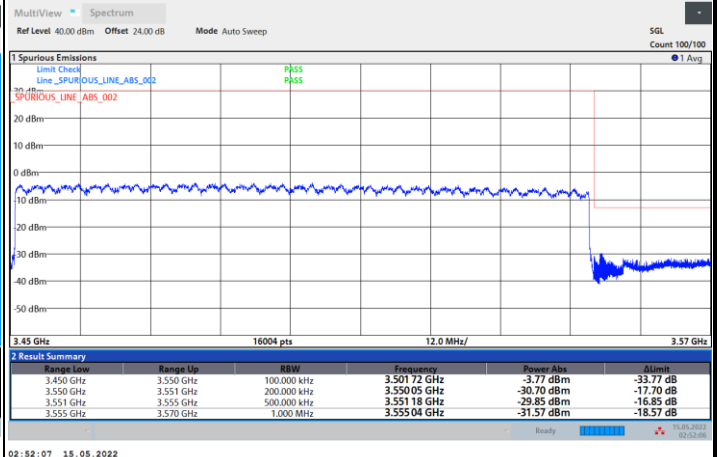


FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

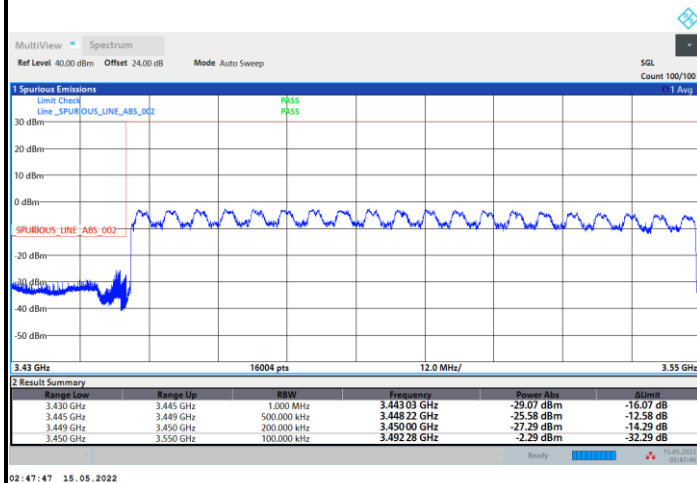


Highest Band Edge / Full RB

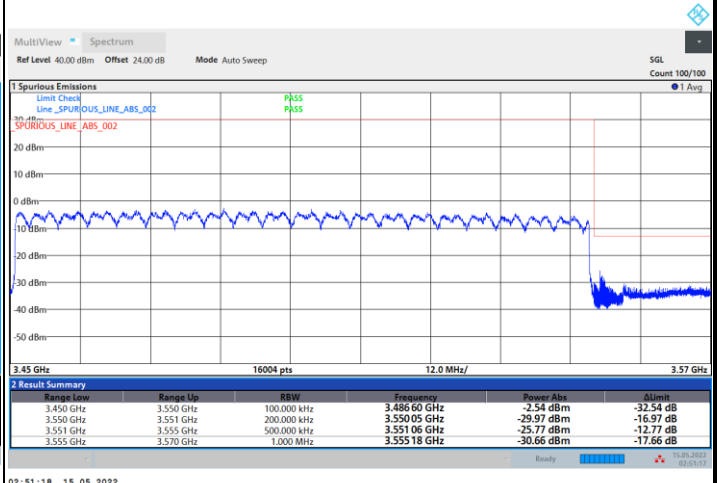


FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



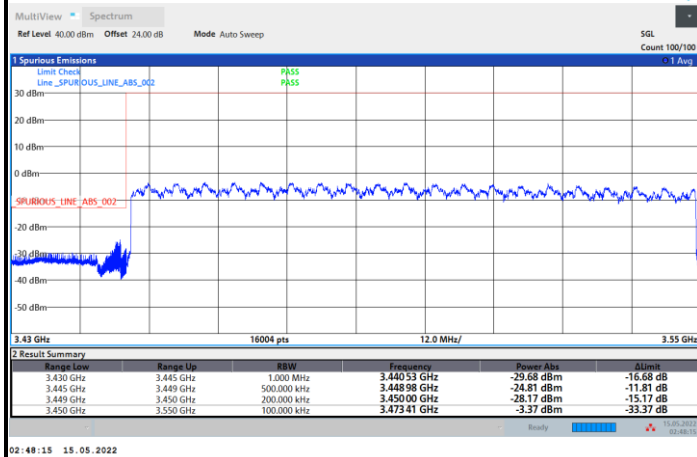
Highest Band Edge / Full RB



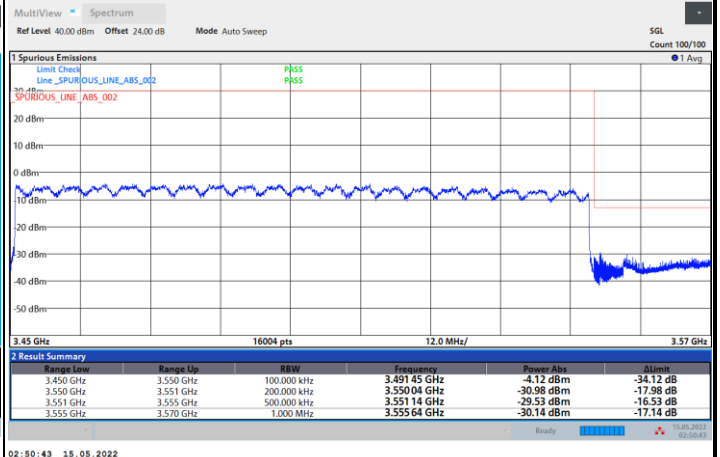


FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

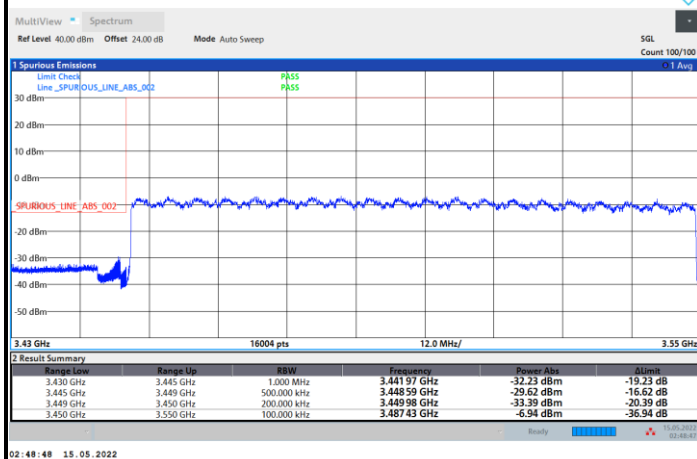


Highest Band Edge / Full RB

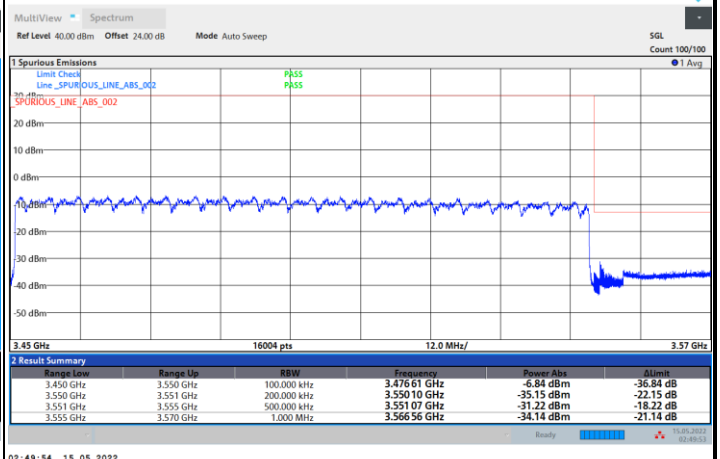


FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

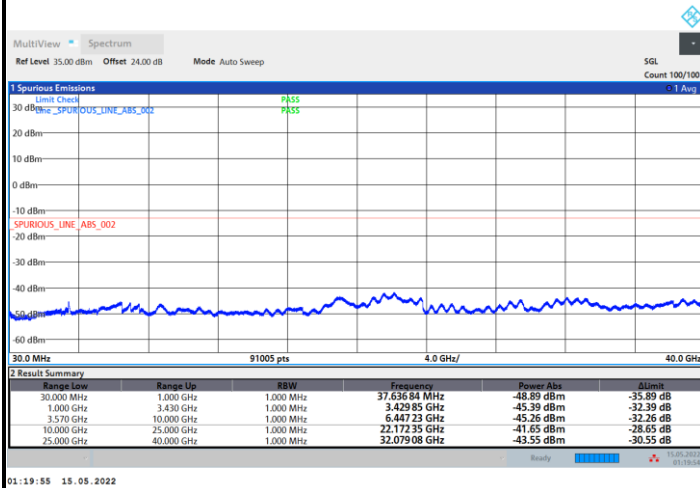




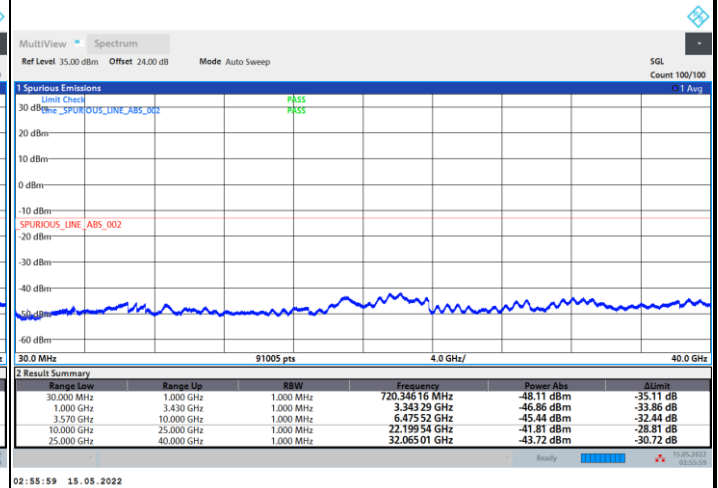
Conducted Spurious Emission

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

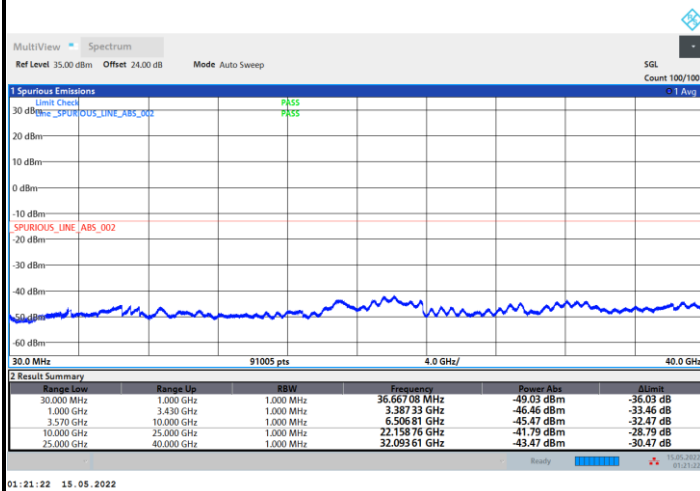
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n77 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0029	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0042	
0	Normal Voltage	0.0031	
-10	Normal Voltage	0.0044	
-20	Normal Voltage	0.0036	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0027	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.40 V. ; Maximum Voltage = 4.30 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

<Primary Antenna>

5G NR n77(HPUE)

5G NR n77 / 100MHz / 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)
Middle	6902	-42.24	-13	-29.24	-71.6	-50.44	1.84	12.19	H
	10351	-36.36	-13	-23.36	-71.84	-42.84	2.26	10.89	H
	13806	-28.63	-13	-15.63	-72.71	-36.40	2.64	12.56	H
	20708	-63.29	-13	-50.29	-76.69	-75.83	3.22	17.92	H
	24160	-59.41	-13	-46.41	-77.07	-71.97	3.78	18.50	H
	27610	-56.54	-13	-43.54	-77.07	-69.99	3.95	19.54	H
									H
	6902	-42.19	-13	-29.19	-72.05	-50.39	1.84	12.19	V
	10351	-36.91	-13	-23.91	-71.59	-43.39	2.26	10.89	V
	13806	-29.64	-13	-16.64	-72.69	-37.41	2.64	12.56	V
	20708	-62.68	-13	-49.68	-75.84	-75.22	3.22	17.92	V
	24160	-59.85	-13	-46.85	-77.15	-72.41	3.78	18.50	V
	27610	-57.12	-13	-44.12	-77.33	-70.57	3.95	19.54	V
									V

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



<ASDIV Antenna>

5G NR n77(HPUE)

5G NR n77 / 100MHz / 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)
Middle	6902	-42.43	-13	-29.43	-71.79	-50.63	1.84	12.19	H
	10351	-36.19	-13	-23.19	-71.67	-42.67	2.26	10.89	H
	13806	-28.76	-13	-15.76	-72.84	-36.53	2.64	12.56	H
	20708	-62.94	-13	-49.94	-76.34	-75.48	3.22	17.92	H
	24160	-59.28	-13	-46.28	-76.94	-71.84	3.78	18.50	H
	27610	-56.68	-13	-43.68	-77.21	-70.13	3.95	19.54	H
									H
	6902	-42.28	-13	-29.28	-72.14	-50.48	1.84	12.19	V
	10351	-36.72	-13	-23.72	-71.4	-43.20	2.26	10.89	V
	13806	-29.77	-13	-16.77	-72.82	-37.54	2.64	12.56	V
	20708	-63.13	-13	-50.13	-76.29	-75.67	3.22	17.92	V
	24160	-59.60	-13	-46.60	-76.9	-72.16	3.78	18.50	V
	27610	-57.02	-13	-44.02	-77.23	-70.47	3.95	19.54	V
									V

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



<MIMO Antenna>

5G NR n77 MIMO(HPUE)

5G NR n77(HPUE) / 100MHz / PI/2 BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6902	-43.17	-13	-30.17	-72.53	-51.37	1.84	12.19	H
	10351	-36.39	-13	-23.39	-71.87	-42.87	2.26	10.89	H
	13806	-29.04	-13	-16.04	-73.12	-36.81	2.64	12.56	H
	20708	-63.15	-13	-50.15	-76.55	-75.69	3.22	17.92	H
	24158	-59.53	-13	-46.53	-77.19	-72.09	3.78	18.49	H
	27610	-57.01	-13	-44.01	-77.54	-70.46	3.95	19.54	H
									H
	6902	-42.97	-13	-29.97	-72.83	-51.17	1.84	12.19	V
	10351	-37.06	-13	-24.06	-71.74	-43.54	2.26	10.89	V
	13806	-30.02	-13	-17.02	-73.07	-37.79	2.64	12.56	V
	20708	-63.36	-13	-50.36	-76.52	-75.90	3.22	17.92	V
	24158	-60.00	-13	-47.00	-77.29	-72.56	3.78	18.49	V
	27610	-56.94	-13	-43.94	-77.15	-70.39	3.95	19.54	V
									V

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

—————THE END—————