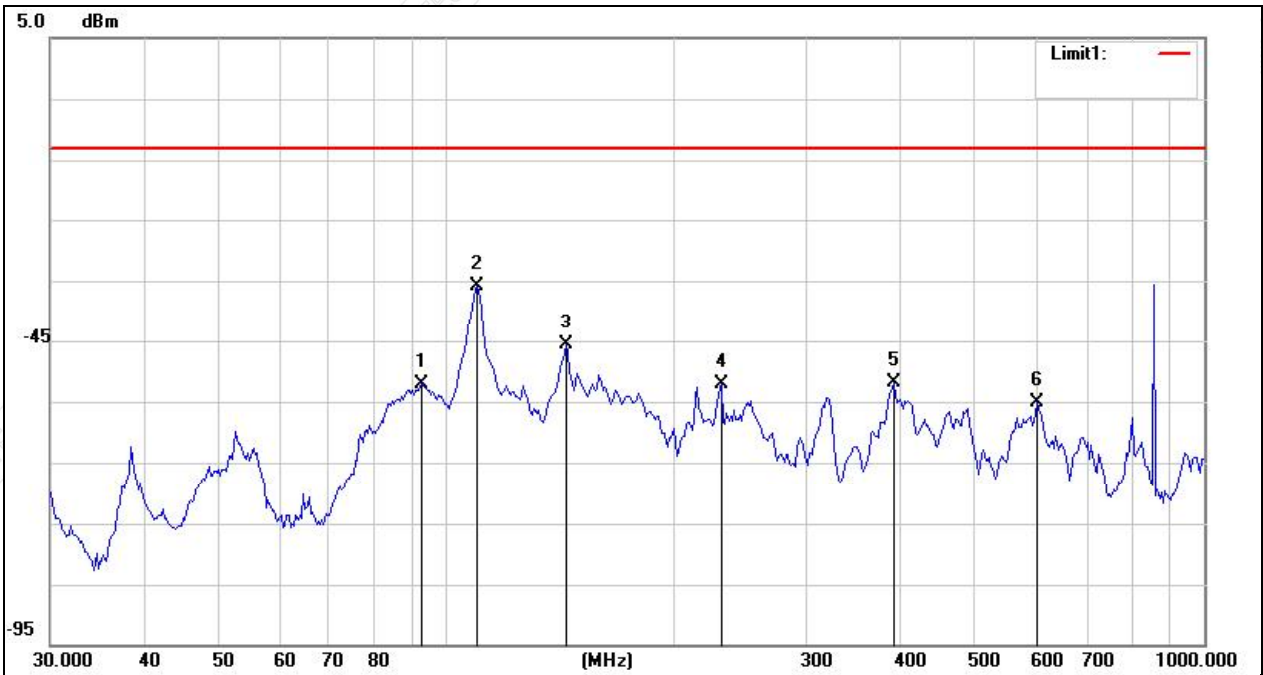


12.21.1.1.2.2. Polarization type: Vertical

Test Result:	PASS	Polarization:	Vertical
Standard:	FCC PART 90	Power Source:	AC 110V, 50Hz
Test item:	Radiation spurious emissions	Date:	2022-08-10
Temp.(°C)/Hum.(%RH):	23.8°C/47%RH	Time:	10:20:15
EUT:	Public Safety Bi-directional Amplifier	Test mode:	Downlink mode
Model:	RX78V2F-B-AC	Distance:	3m
Note:	/		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	92.8248	-73.33	21.10	-52.23	-13.00	-39.23	peak
2	109.8700	-60.61	24.82	-35.79	-13.00	-22.79	peak
3	143.8877	-74.55	29.02	-45.53	-13.00	-32.53	peak
4	230.6889	-78.04	26.00	-52.04	-13.00	-39.04	peak
5	389.0399	-80.05	28.09	-51.96	-13.00	-38.96	peak
6	603.0510	-89.21	33.98	-55.23	-13.00	-42.23	peak

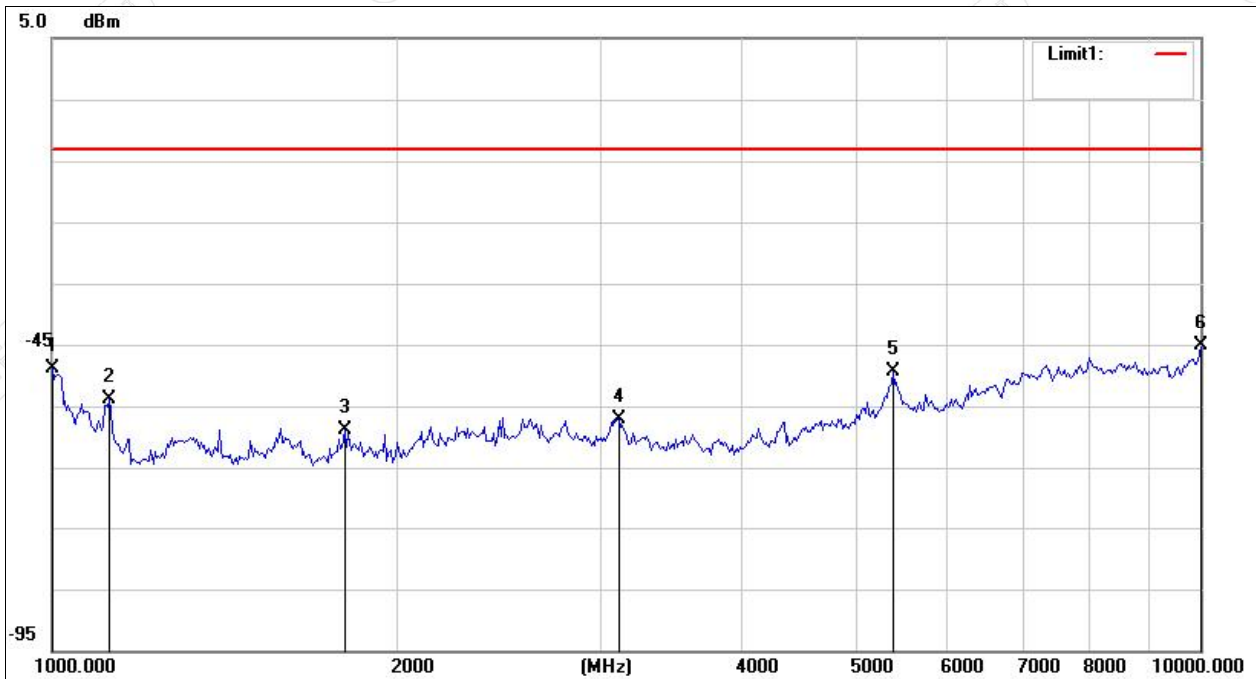
Note: When the read value of the test frequency does not exceed the peak limit, peak is used instead of RMS value.

12.21.1.2.Above 1GHz

12.21.1.2.1. 700MHz Band

12.21.1.2.1.1. Polarization type: Horizontal

Test Result:	PASS	Polarization:	Horizontal
Standard:	FCC PART 90	Power Source:	AC 110V, 50Hz
Test item:	Radiation spurious emissions	Date:	2022-08-10
Temp.(°C)/Hum.(%RH):	23.8°C/47%RH	Time:	10:42:33
EUT:	Public Safety Bi-directional Amplifier	Test mode:	Downlink mode
Model:	RX78V2F-B-AC	Distance:	3m
Note:	/		

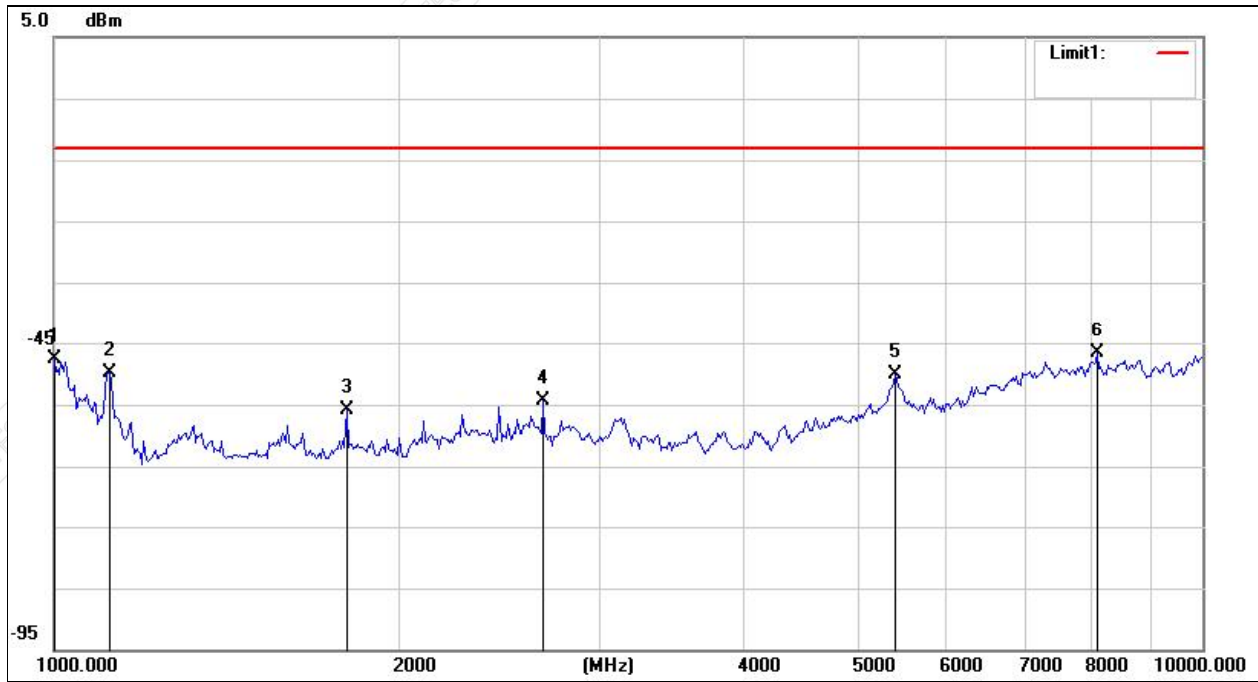


No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1000.0000	-51.67	2.80	-48.87	-13.00	-35.87	peak
2	1121.191	-58.25	4.36	-53.89	-13.00	-40.89	peak
3	1798.074	-65.69	6.83	-58.86	-13.00	-45.86	peak
4	3115.945	-70.19	13.18	-57.01	-13.00	-44.01	peak
5	5399.727	-70.25	20.91	-49.34	-13.00	-36.34	peak
6	10000.000	-69.59	24.50	-45.09	-13.00	-32.09	peak

Note: When the read value of the test frequency does not exceed the peak limit, peak is used instead of RMS value.

12.21.1.2.1.2. Polarization type: Vertical

Test Result:	PASS	Polarization:	Vertical
Standard:	FCC PART 90	Power Source:	AC 110V, 50Hz
Test item:	Radiation spurious emissions	Date:	2022-08-10
Temp.(°C)/Hum.(%RH):	23.8°C/47%RH	Time:	10:46:16
EUT:	Public Safety Bi-directional Amplifier	Test mode:	Downlink mode
Model:	RX78V2F-B-AC	Distance:	3m
Note:	/		



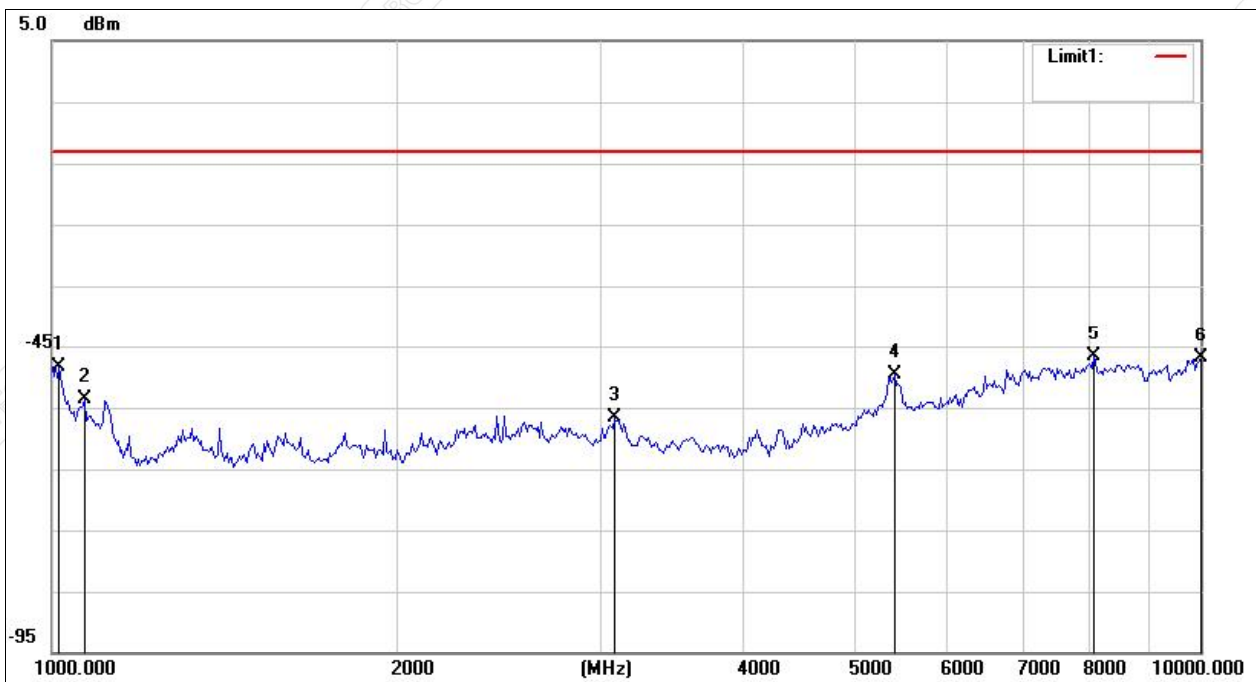
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	1000.0000	-50.43	2.80	-47.63	-13.00	-34.63	peak
2	1117.061	-54.27	4.51	-49.76	-13.00	-36.76	peak
3	1798.074	-62.68	6.83	-55.85	-13.00	-42.85	peak
4	2668.591	-64.04	9.62	-54.42	-13.00	-41.42	peak
5	5399.727	-70.92	20.91	-50.01	-13.00	-37.01	peak
6	8103.149	-69.27	22.61	-46.66	-13.00	-33.66	peak

Note: When the read value of the test frequency does not exceed the peak limit, peak is used instead of RMS value.

12.21.1.2.2. 800MHz Band

12.21.1.2.2.1. Polarization type: Horizontal

Test Result:	PASS	Polarization:	Horizontal
Standard:	FCC PART 90	Power Source:	AC 110V, 50Hz
Test item:	Radiation spurious emissions	Date:	2022-08-10
Temp.(°C)/Hum.(%RH):	23.8°C/47%RH	Time:	10:36:23
EUT:	Public Safety Bi-directional Amplifier	Test mode:	Downlink mode
Model:	RX78V2F-B-AC	Distance:	3m
Note:	/		

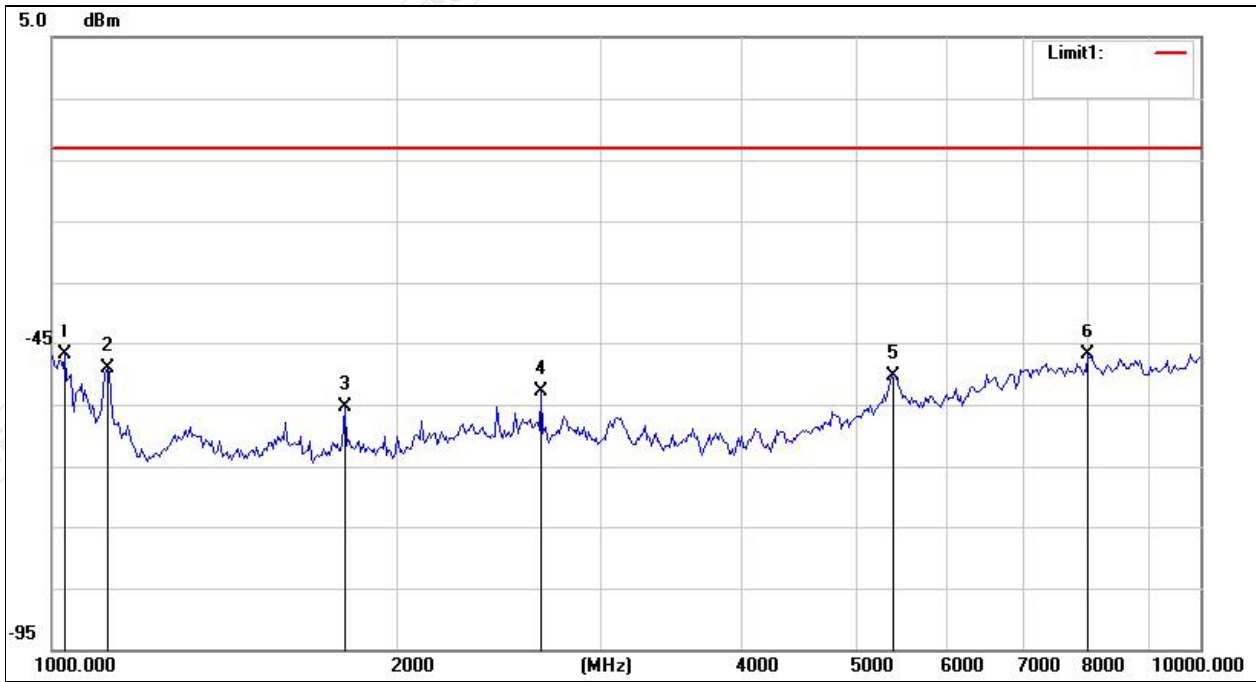


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	1014.870	-51.40	3.14	-48.26	-13.00	-35.26	peak
2	1068.676	-58.04	4.36	-53.68	-13.00	-40.68	peak
3	3093.033	-70.08	13.51	-56.57	-13.00	-43.57	peak
4	5419.689	-69.89	20.15	-49.74	-13.00	-36.74	peak
5	8073.304	-69.44	22.86	-46.58	-13.00	-33.58	peak
6	10000.000	-71.39	24.50	-46.89	-13.00	-33.89	peak

Note: When the read value of the test frequency does not exceed the peak limit, peak is used instead of RMS value.

12.21.1.2.2.2. Polarization type: Vertical

1. Test Result:	PASS	Polarization:	Vertical
Standard:	FCC PART 90	Power Source:	AC 110V, 50Hz
Test item:	Radiation spurious emissions	Date:	2022-08-10
Temp.(°C)/Hum.(%RH):	23.8°C/47%RH	Time:	10:30:58
EUT:	Public Safety Bi-directional Amplifier	Test mode:	Downlink mode
Model:	RX78V2F-B-AC	Distance:	3m
Note:	/		

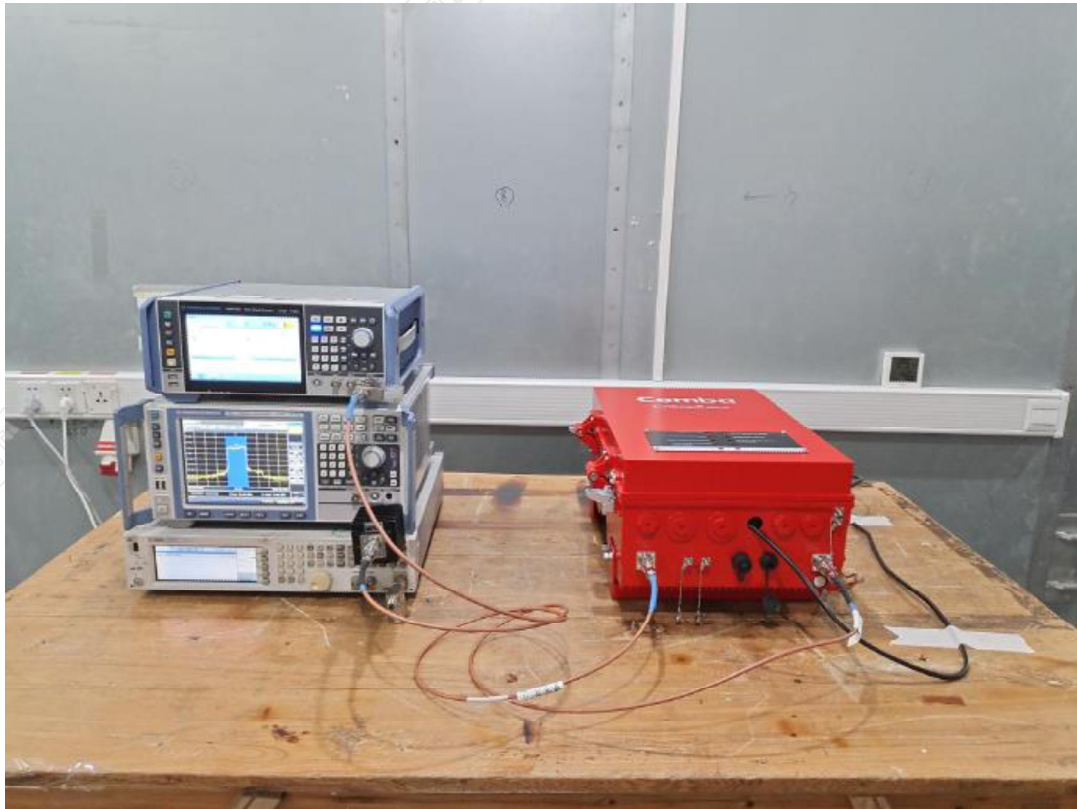


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	1026.167	-50.27	3.39	-46.88	-13.00	-33.88	peak
2	1117.061	-53.70	4.51	-49.19	-13.00	-36.19	peak
3	1798.074	-62.12	6.83	-55.29	-13.00	-42.29	peak
4	2668.591	-62.52	9.62	-52.90	-13.00	-39.90	peak
5	5399.727	-71.16	20.91	-50.25	-13.00	-37.25	peak
6	7984.424	-70.12	23.28	-46.84	-13.00	-33.84	peak

Note: When the read value of the test frequency does not exceed the peak limit, peak is used instead of RMS value.



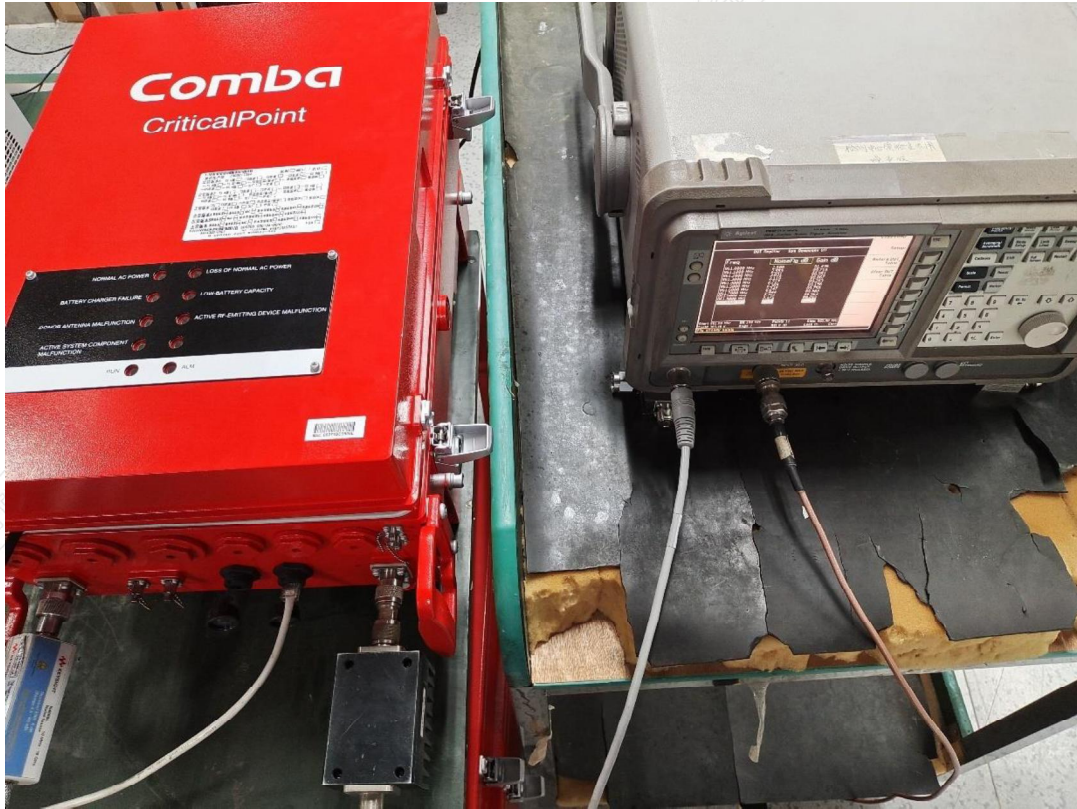
**Appendix B. Photograph of the test connection diagram**



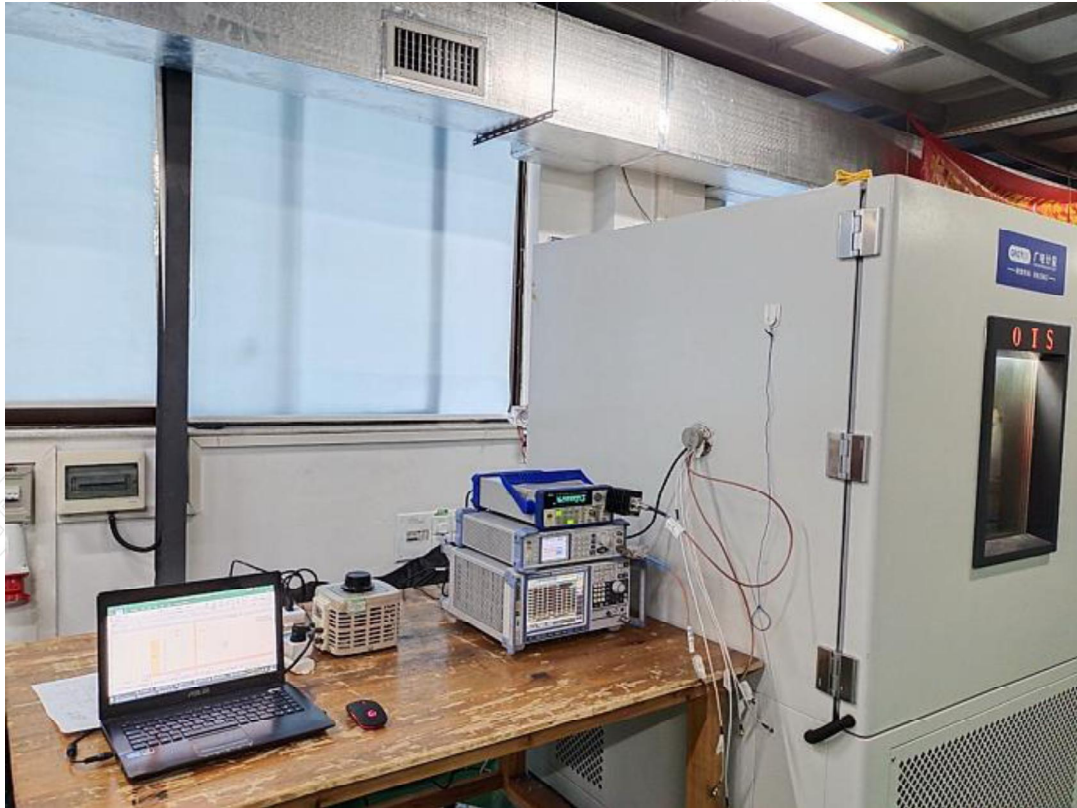
Normal temperature test scenario



Test scenario-2



Test scenario-3



Temperature change test-1



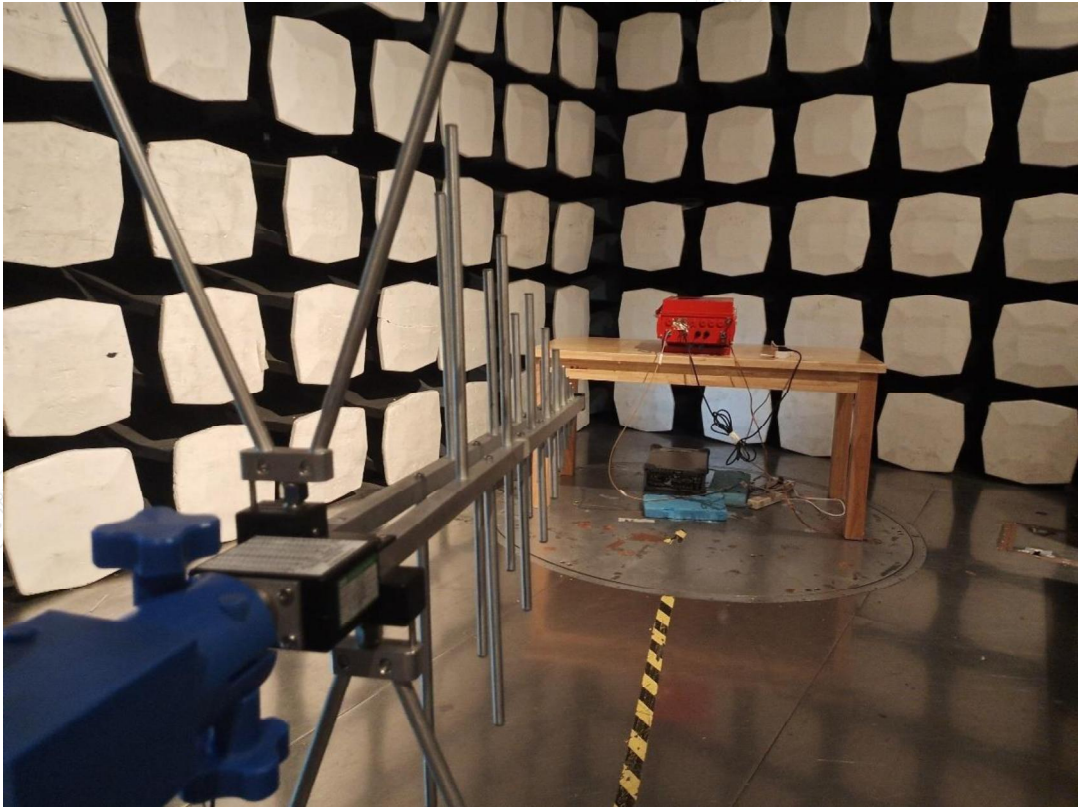


Temperature change test-2

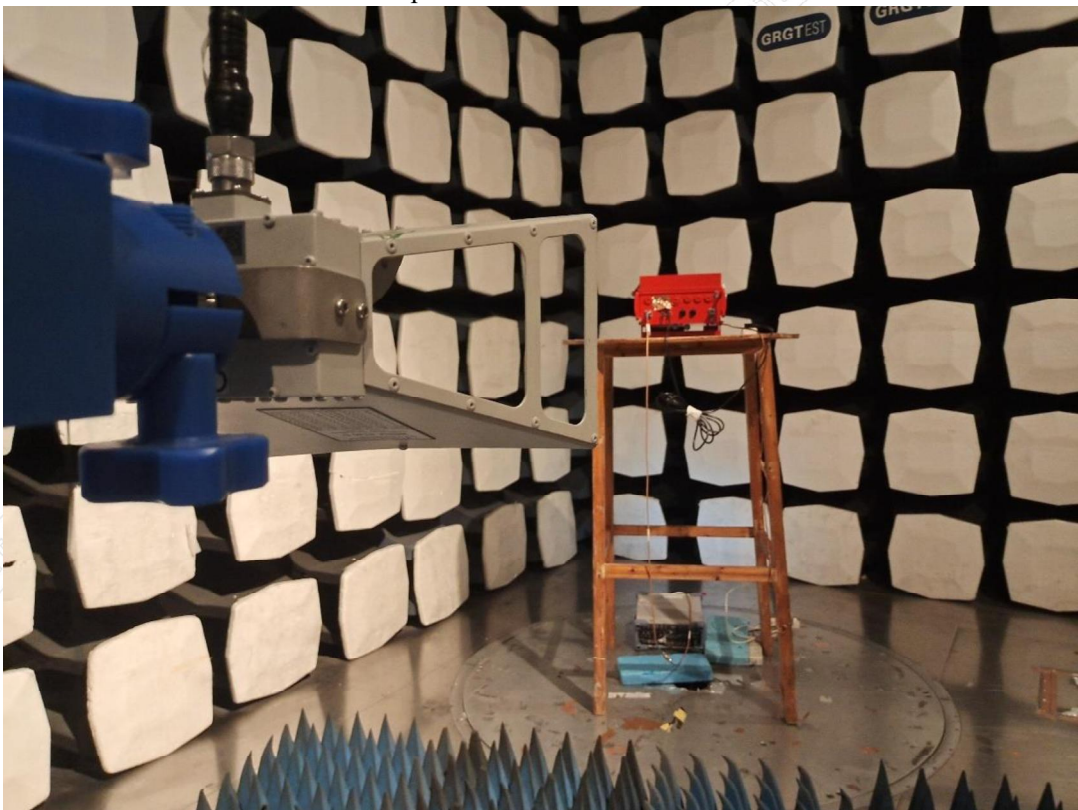


Temperature change test-3





Radiated spurious emissions—Below 1GHz



Radiated spurious emissions—Above 1GHz

## Appendix C. Photographs of EUT

### C.1 External photos



Top surface



Front surface





Side surface-1



Side surface-2





Behind surface



Bottom surface

----- End of Report -----