RF TEST REPORT

Applicant	:	Shenzhen Gotron Electronic CO.,LTD.
Product Name	:	Smart Phone
Brand Name	:	ulefone
Model Name	:	GQ5012
Series Model	:	Armor 29 Pro, Armor 29 Ultra, Armor 29, Armor 29T Ultra, Armor 29T Pro, Armor 29 Lite, Armor 29s, Armor 29s Pro
FCC ID	:	2AOWK-5012
Test Standard	:	47 CFR Part 2;47 CFR Part 22;47 CFR Part 24; 47 CFR Part 27;
Date of SampleArrival	:	2025.02.11
Date of Test	:	2025.02.11-2025.04.25
Issue Date	:	2025.04.25

Report Prepared by : Jacob. Cai

(Jacob Cai)

Report Approved by : Jason Wu

(Jason Wu)

Authorized Signatory : Robinson Luo

(Robinson Luo)

Authorized Signature:

Robinson Luo
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver

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REVISION HISTORY

Rev.	Issue Date	Revisions	Revised by
00	2025.04.25	Initial Release	N/A

DECLARATION OF REPORT

1. The device has been tested by GTS, and the test results show that the equipment under test (EUT)is in compliance with the requirements of FCC. And it is applicable only to the tested sample identified in the report.

2. This report shall not be reproduced except in full, without the written approval of GTS, this document only be altered or revised by GTS, personal only, and shall be noted in the revision of the document.

3. The general information of EUT in this report is provided by the customer or manufacture, GTS is only responsible for the test data but not for the information provided by the customer or manufacture.

4. The results in this report is only apply to the sample as tested under conditions. The customer or manufacturer is responsible for ensuring that the additional production units of this model have the same electrical and mechanical components.

SUMMARY OF TEST RESULT

For Band2 and Band25

Test Item	FCC Rule No.	Limit	Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	Part 24.232	EIRP ≤ 2 W	Pass	Appendix C1
Peak-Average Ratio	Part 2.1046, 24.232	Limit≤13 dB	Pass	Appendix C2
Frequency Stability	Part 2.1055, 24.235	≤ ± 2.5 ppm.	Pass	Appendix C3
Occupied Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass	Appendix C4
Spurious Emission at Antenna Terminals	Part 2.1051, 24.238	≤ -13 dBm/1 MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Pass	Appendix C5
Band Edges Compliance	Part 2.1051, 24.238	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Pass	Appendix C6
Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix C7
Radiated Spurious Emissions	Part 2.1053, 24.238	≤ -13 dBm/1 MHz.	Pass	/
Note1: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.				

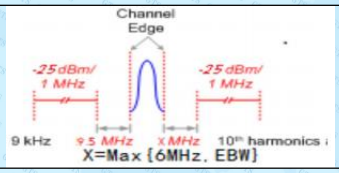
For Band4 and LTE Band66

Test Item	FCC Rule No.	Limit	Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	Part 27.50(d)	EIRP ≤ 1 W	Pass	Appendix C1
Peak-Average Ratio	Part 2.1046, 27.50(d)	Limit≤13 dB	Pass	Appendix C2
Frequency Stability	Part 2.1055, 27.54	≤ ± 2.5 ppm.	Pass	Appendix C3
Occupied Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass	Appendix C4
Spurious Emission at Antenna Terminals	Part 2.1051, 27.53(h)	≤ -13 dBm/1 MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Pass	Appendix C5
Band Edges Compliance	Part 2.1051, 27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Pass	Appendix C6
Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix C7
Radiated Spurious Emissions	Part 2.1053, 27.53(h)	≤ -13 dBm/1 MHz.	Pass	/
Note1: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.				

For Band5 and Band26

Test Item	FCC Rule No.	Limit	Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	Part 22.913 (a)	ERP ≤ 7 W	Pass	Appendix C1
Peak-Average Ratio	Part 2.1046, 22.913 (a)	Limit≤13 dB	Pass	Appendix C2
Frequency Stability	Part2.1055, 22.355	≤ ± 2.5 ppm.	Pass	Appendix C3
Occupied Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass	Appendix C4
Spurious Emission at Antenna Terminals	Part2.1051, 22.917	≤ -13 dBm/1 MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Pass	Appendix C5
Band Edges Compliance	Part22.917	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Pass	Appendix C6
Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix C7
Radiated Spurious Emissions	Part2.1053, 22.917	≤ -13 dBm/1 MHz.	Pass	/
Note1: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.				

For Band7 and Band41

Test Item	FCC Rule No.	Limit	Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	Part27.50(h)	EIRP ≤ 2 W	Pass	Appendix C1
Peak-Average Ratio	Part 2.1046 27.50(h)	Limit≤13 dB	Pass	Appendix C2
Frequency Stability	Part 2.1055, 27.54	≤ ± 2.5 ppm.	Pass	Appendix C3
Occupied Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass	Appendix C4
Spurious Emission at Antenna Terminals	Part 2.1051, 27.53(m)		Pass	Appendix C5
Band Edges Compliance	Part 2.1051, 27.53(m4)	For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.	Pass	Appendix C6
Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix C7
Radiated Spurious Emissions	Part 2.1053, 27.53(m)	≤ -25 dBm/1 MHz.	Pass	/

Note1:
For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.

For Band12 and Bnad17,Band71

Test Item	FCC Rule No.	Limit	Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	Part 27.50(c)	ERP ≤ 3 W	Pass	Appendix C1
Peak-Average Ratio	Part 2.1046, Part 27.50(c)	Limit≤13 dB	Pass	Appendix C2
Frequency Stability	Part 2.1055 27.54	≤ ± 2.5 ppm.	Pass	Appendix C3
Occupied Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass	Appendix C4
Spurious Emission at Antenna Terminals	Part 2.1051, 27.53(g)	≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Pass	Appendix C5
Band Edges Compliance	Part 2.1051, 27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Pass	Appendix C6
Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix C7
Radiated Spurious Emissions	Part 2.1053, 27.53(g)	≤ -13 dBm/1 MHz.	Pass	/
Note1: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.				

1. GENERAL DESCRIPTION

1.1. Applicant

Name	:	Shenzhen Gotron Electronic CO.,LTD.
Address	:	7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China

1.2. Manufacturer

Name	:	Shenzhen Gotron Electronic CO.,LTD.
Address	:	7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China

1.3. Factory

Name	:	Shenzhen Gotron Electronic CO.,LTD.
Address	:	7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China

1.4. General Information of EUT

General Information	
Equipment Name	Smart Phone
Brand Name	ulefone
Model Name	GQ5012
Series Model	Armor 29 Pro, Armor 29 Ultra, Armor 29, Armor 29T Ultra, Armor 29T Pro, Armor 29 Lite, Armor 29s, Armor 29s Pro
Model Difference	All the same except for model name
Test Sample	202502060001001
Power Supply:	DC 7.74V For Battery
Adapter	Input:100-240V~50/60Hz 1.8AOutput:5.0V⎓ 3.0A 15.0W OR 9.0V⎓ 3.0A 27.0W OR 12.0V⎓ 3.0A 36.0W OR 15.0V⎓ 3.0A 45.0W OR 20.0V⎓ 5.0A 100.0W MAX PPS:3.6V-20.0V⎓ 6.0A 120.0W MAX
Battery	Rated Voltage:7.74V Charge Limit Voltage:8.9V Capacity:10600mAh
Hardware Version	N/A
Software Version	N/A
Connecting I/O Port(s)	Refer to the remark below.

Remark:

The above information of EUT was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.5. Equipment Specification

Standards-related Product Specification		
Frequency		
Band	**Tx Frequency Range**	**Rx Frequency Range**
☑ Band 2	1850 MHz ~ 1910 MHz	1930 MHz ~ 1990 MHz
☑ Band 4	1710 MHz ~ 1755 MHz	2110 MHz ~ 2155 MHz
☑ Band 5	824 MHz ~ 849 MHz	869 MHz ~ 894 MHz
☑ Band 12	699 MHz ~ 716 MHz	728 MHz ~ 746 MHz
☑ Band 17	704 MHz ~ 716 MHz	734 MHz ~ 746 MHz
☑ Band 41	2496 MHz ~ 2690 MHz	2496 MHz ~ 2690 MHz
☑ Band 66	1710 MHz ~ 1780 MHz	2110 MHz~ 2200 MHz
☑ Band 71	663 MHz ~ 698 MHz	617 MHz ~ 652 MHz
Bandwidth		
Band	**Bandwidth**	
☑ Band 2	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz	
☑ Band 4	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz	
☑ Band 5	1.4MHz / 3MHz / 5MHz / 10MHz	
☑ Band 12	1.4MHz / 3MHz / 5MHz / 10MHz	
☑ Band 17	5MHz / 10MHz	
☑ Band 41	5MHz / 10MHz / 15MHz / 20MHz	
☑ Band 66	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz	
☑ Band 71	5MHz / 10MHz / 15MHz / 20MHz	
Antenna Gain		
Band	**Antenna Gain**	
☑ Band 2	1.9dbi	
☑ Band 4	2.18dbi	
☑ Band 5	-2.25dbi	
☑ Band 12	-1.73dbi	
☑ Band 17	-1.73dbi	
☑ Band 41	1.1dbi	
☑ Band 66	2.18dbi	
☑ Band 71	0.67dbi	
Maximum Output Power to Antenna		
Band	**Maximum Output Power**	
☑ Band 2	24.99dBm	
☑ Band 4	25.22dBm	
☑ Band 5	19.23dBm	
☑ Band 12	19.72 dBm	
☑ Band 17	19.77dBm	
☑ Band 41	23.76dBm	
☑ Band 66	25.29dBm	
☑ Band 71	22.17dBm	
Type of Modulation		
☑ QPSK ☑ 16QAM ☐ 64QAM ☐ 256QAM		

1.6. Maximum Conducted Power and Emission Designator

☑ LTE Band 2				
Bandwidth (MHz)	QPSK		☑16QAM/☐64QAM/☐ 256QAM	
	MaximumConducted Power(W)	EmissionDesignator (99%OBW)	MaximumConducted power(W)	EmissionDesignator (99%OBW)
1.4	0.300	1M08G7D	0.244	1M08W7D
3	0.302	2M69G7D	0.263	2M69W7D
5	0.316	4M49G7D	0.274	4M47W7D
10	0.305	8M97G7D	0.267	8M94W7D
15	0.308	13M5G7D	0.272	13M5W7D
20	0.313	18M0G7D	0.281	18M0W7D

☑ LTE Band 4				
Bandwidth (MHz)	QPSK		☑16QAM/☐64QAM/☐ 256QAM	
	MaximumConducted Power(W)	EmissionDesignator (99%OBW)	MaximumConducted power(W)	EmissionDesignator (99%OBW)
1.4	0.320	1M08G7D	0.259	1M08W7D
3	0.320	2M69G7D	0.283	2M68W7D
5	0.332	4M49G7D	0.288	4M49W7D
10	0.321	8M97G7D	0.288	8M94W7D
15	0.324	13M5G7D	0.288	13M4W7D
20	0.333	18M0G7D	0.297	18M0W7D

☑ LTE Band 5				
Bandwidth (MHz)	QPSK		☑16QAM/☐64QAM/☐ 256QAM	
	MaximumConducted Power(W)	EmissionDesignator (99%OBW)	MaximumConducted power(W)	EmissionDesignator (99%OBW)
1.4	0.081	1M08G7D	0.065	1M08W7D
3	0.081	2M69G7D	0.070	2M68W7D
5	0.084	4M49G7D	0.071	4M47W7D
10	0.082	8M97G7D	0.071	8M97W7D

☑ LTE Band 12				
Bandwidth (MHz)	QPSK		☑16QAM/☐64QAM/☐ 256QAM	
	MaximumConducted Power(W)	EmissionDesignator (99%OBW)	MaximumConducted power(W)	EmissionDesignator (99%OBW)
1.4	0.091	1M08G7D	0.074	1M08W7D
3	0.091	2M69G7D	0.080	2M68W7D
5	0.094	4M49G7D	0.079	4M46W7D
10	0.092	8M97G7D	0.081	8M94W7D

☑ LTE Band 17				
Bandwidth (MHz)	QPSK		☑16QAM/☐64QAM/☐ 256QAM	
	MaximumConducted Power(W)	EmissionDesignator (99%OBW)	MaximumConducted power(W)	EmissionDesignator (99%OBW)
5	0.095	4M47G7D	0.080	4M49W7D
10	0.092	8M97G7D	0.081	8M94W7D

☑ LTE Band 41				
Bandwidth (MHz)	QPSK		☑16QAM/☐64QAM/☐ 256QAM	
	MaximumConducted Power(W)	EmissionDesignator (99%OBW)	MaximumConducted power(W)	EmissionDesignator (99%OBW)
5	0.238	4M49G7D	0.201	4M47W7D
10	0.236	8M97G7D	0.208	9M07W7D
15	0.236	13M5G7D	0.206	13M4W7D
20	0.237	18M0G7D	0.201	17M9W7D

☑ LTE Band 66				
Bandwidth (MHz)	QPSK		☑16QAM/☐64QAM/☐ 256QAM	
	MaximumConducted Power(W)	EmissionDesignator (99%OBW)	MaximumConducted power(W)	EmissionDesignator (99%OBW)
1.4	0.321	1M08G7D	0.264	1M07W7D
3	0.327	2M69G7D	0.281	2M68W7D
5	0.337	4M49G7D	0.278	4M47W7D
10	0.329	8M97G7D	0.292	8M97W7D
15	0.333	13M5G7D	0.288	13M4W7D
20	0.338	18M0G7D	0.286	17M9W7D

☑ LTE Band 71				
Bandwidth (MHz)	QPSK		☑16QAM/☐64QAM/☐ 256QAM	
	MaximumConducted Power(W)	EmissionDesignator (99%OBW)	MaximumConducted power(W)	EmissionDesignator (99%OBW)
5	0.165	4M47G7D	0.134	4M47W7D
10	0.162	8M94G7D	0.140	8M97W7D
15	0.162	13M5G7D	0.142	13M5W7D
20	0.164	18M0G7D	0.139	17M9W7D

1.7. Modification of EUT

No modifications are made to the EUT during all test items.

1.8. Laboratory Information

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC —Registration No.: 381383**

  Designation Number: CN5029

  Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

- **ISED—Registration No.: 9079A**

  CAB identifier: CN0091

  The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing.

- **NVLAP (LAB CODE:600179-0)**

  Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

1.9. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

47 CFR Part 2, 22(H), 24(E), 27(C)

ANSI C63.26-2015

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.

1.10. Environmental conditions

Temperature	Normal Temperature(NT):	25°C
	High Temperature(HT):	40°C
	Low Temperature(LT):	-10°C
Voltage	Normal Voltage(NV):	7.74V
	High Voltage(HV):	8.514V
	Low Voltage(LV):	7.353V
Other	Relative Humidity	55 %
	Air Pressure	101 kPa

2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

2.1. Test Mode

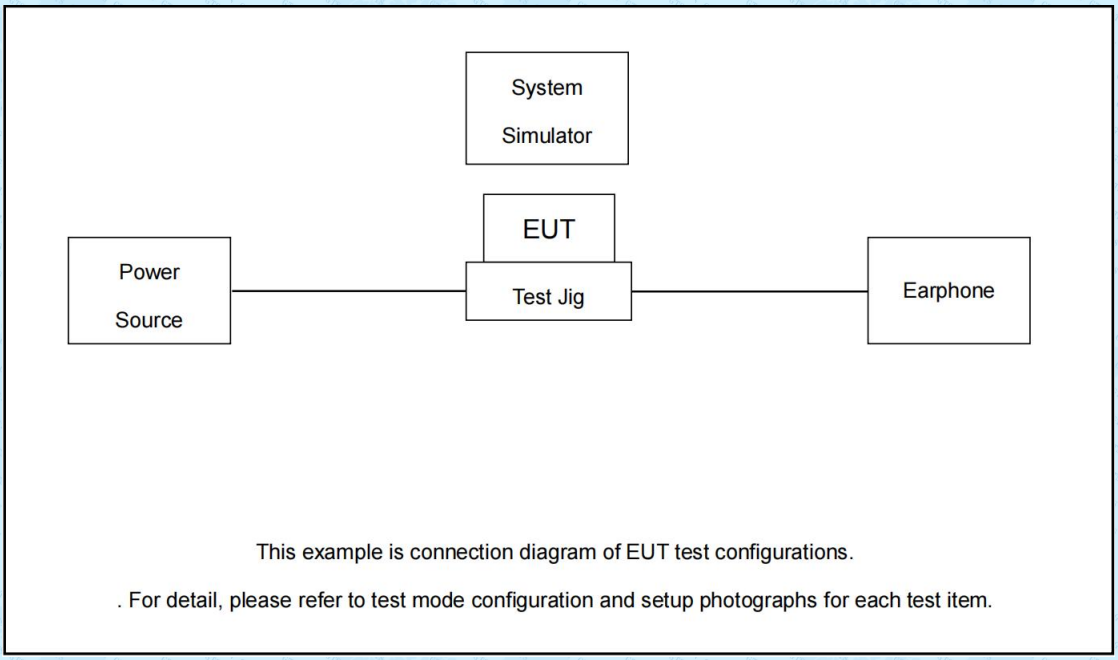
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (X-Plane).

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM			1	Half	Full	L	M	H
Max. Output Power	2	√	√	√	√	√	√	√	√			√		√	√	√	√
	4	√	√	√	√	√	√	√	√			√		√	√	√	√
	5	√	√	√	√			√	√			√		√	√	√	√
	12	√	√	√	√			√	√			√		√	√	√	√
	17			√	√			√	√			√		√	√	√	√
	41			√	√	√	√	√	√			√		√	√	√	√
	66	√	√	√	√	√	√	√	√			√		√	√	√	√
	71			√	√	√	√	√	√			√		√	√	√	√
Peak-to-Average Ratio	2	√	√	√	√	√	√	√	√					√	√	√	√
	4	√	√	√	√	√	√	√	√					√	√	√	√
	5	√	√	√	√			√	√					√	√	√	√
	12	√	√	√	√			√	√					√	√	√	√
	17			√	√			√	√					√	√	√	√
	41			√	√	√	√	√	√					√	√	√	√
	66	√	√	√	√	√	√	√	√					√	√	√	√
	71			√	√	√	√	√	√					√	√	√	√
26dB and 99% Bandwidth	2	√	√	√	√	√	√	√	√					√	√	√	√
	4	√	√	√	√	√	√	√	√					√	√	√	√
	5	√	√	√	√			√	√					√	√	√	√
	12	√	√	√	√			√	√					√	√	√	√
	17			√	√			√	√					√	√	√	√
	41			√	√	√	√	√	√					√	√	√	√
	66	√	√	√	√	√	√	√	√					√	√	√	√
	71			√	√	√	√	√	√					√	√	√	√
Conducted Band Edge	2	√	√	√	√	√	√	√	√			√		√	√		√
	4	√	√	√	√	√	√	√	√			√		√	√		√
	5	√	√	√	√			√	√			√		√	√		√
	12	√	√	√	√			√	√			√		√	√		√
	17			√	√			√	√			√		√	√		√
	41			√	√	√	√	√	√			√		√	√		√
	66	√	√	√	√	√	√	√	√			√		√	√		√
	71			√	√	√	√	√	√			√		√	√		√
Conducted Spurious Emission	2	√	√	√	√	√	√	√	√			√		√	√	√	√
	4	√	√	√	√	√	√	√	√			√		√	√	√	√
	5	√	√	√	√			√	√			√		√	√	√	√
	12	√	√	√	√			√	√			√		√	√	√	√
	17			√	√			√	√			√		√	√	√	√
	41			√	√	√	√	√	√			√		√	√	√	√
	66	√	√	√	√	√	√	√	√			√		√	√	√	√
	71			√	√	√	√	√	√			√		√	√	√	√
Frequency Stability	2	√	√	√	√	√	√	√	√					√	√	√	√
	4	√	√	√	√	√	√	√	√					√	√	√	√
	5	√	√	√	√			√	√					√	√	√	√
	12	√	√	√	√			√	√					√	√	√	√
	17			√	√			√	√					√	√	√	√
	41			√	√	√	√	√	√					√	√	√	√
	66	√	√	√	√	√	√	√	√					√	√	√	√
	71			√	√	√	√	√	√					√	√	√	√
E.R.P / E.I.R.P	2	√	√	√	√	√	√	√	√			√		√	√	√	√
	4	√	√	√	√	√	√	√	√			√		√	√	√	√
	5	√	√	√	√			√	√			√		√	√	√	√
	12	√	√	√	√				√			√		√	√	√	√
	17			√	√			√	√			√		√	√	√	√
	41			√	√	√	√		√			√		√	√	√	√
	66	√	√	√	√	√	√	√	√			√		√	√	√	√

	71			√	√	√	√	√	√			√		√	√	√	√
Radiated Spurious Emission	2	Worst Case													√	√	√
	4	Worst Case													√	√	√
	5	Worst Case													√	√	√
	12	Worst Case													√	√	√
	17	Worst Case													√	√	√
	41	Worst Case													√	√	√
	66	Worst Case													√	√	√
	71	Worst Case													√	√	√
Note	1. The mark "√" means that this configuration is chosen for testing. 2. When a cell is empty, it means it is not supported or does not require testing. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																

2.2. Connection Diagram of Test System



2.3. Support Unit used in test configuration and system

NO.	Unit	Brand	Model	Description
1	-	-	-	-
2	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

2.4. Frequency List of Low/Middle/High Channels

LTEBand 2 Channel andFrequencyList				
BW[MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTEBand4 ChannelandFrequencyList				
BW[MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3

LTEBand 5 Channel andFrequencyList				
BW[MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTEBand12 ChannelandFrequencyList				
BW[MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTEBand17 ChannelandFrequencyList				
BW[MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23900
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

LTEBand41 ChannelandFrequencyList				
BW[MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506	2593	2680
15	Channel	39725	40620	41515
	Frequency	2503.5	2593	2682.5
10	Channel	39700	40620	41540
	Frequency	2501	2593	2685
5	Channel	39675	40620	41565
	Frequency	2498.5	2593	2687.5

LTEBand 66 ChannelandFrequencyList				
BW[MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

LTEBand 71 ChannelandFrequencyList				
BW[MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133322	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133272	133422
	Frequency	668.0	678.0	693.0
5	Channel	133147	133247	133447
	Frequency	665.5	675.5	695.5

2.5. Equipment List

2.5.1. For Conducted Test

Conducted Test :						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSV40-N	102126	2024-08-09	2025-08-08
2	Signal Generator	KEYSIGHT	N5173B	MY62220592	2024-08-09	2025-08-08
3	Vector Signal Generator	KEYSIGHT	N5182B	MY57301571	2024-08-09	2025-08-08
5	Wideband Radio CommunicAtion Tester	R&S	CMW500	1201.0002K50 -147120-bM	2024-08-09	2025-08-08
6	Temperature/Humidity Meter	Bomfo	JR609	/	2024-08-09	2025-08-08
7	High and low temperature test chamber	Shanghai Xunpi Technology (Group) Co., Ltd	XP/GDWH-0.225-70	XP202306008	2024-08-09	2025-08-08
8	Cable	Lyle Microwave	SMAM	RG142	/	/
Test Software						
Name of Software:		WCS-LTE				
Version:		2023.09.01				

2.5.2. For Radiated Spurious Emission

Radiated Spurious Emission :						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	BiLog Antenna (25MHz-1GHz)	SCHAFFNER	CBL6112B	2740	2024-08-09	2025-08-08
2	Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	2800	2024-08-09	2025-08-08
3	Amplifier (25MHz-1GHz)	Ce Shen	DLNA-20-1000	CSKJLNA230822A	2024-08-09	2025-08-08
4	Amplifier (1-18GHz)	Ce Shen	DLNA-1000-18000	CSKJLNA230813B	2024-08-09	2025-08-08
5	Receiver	R&S	ESPI3	100440	2024-08-09	2025-08-08
6	Spectrum Analyzer	Agilent	N9020A	MY51285460	2024-08-09	2025-08-08
7	Filter Box	XingBo	EZSVFU1& EZSVFU2	N/A	N/A	N/A
8	Cable	Lyle Microwave	SMAM	RG142	/	/
9	Vector signal generator	Keysight	N5182B	MY50200811	2024.05.21	2025.05.20
10	Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	2802	2024-08-11	2025-08-10
11	BiLog Antenna (25MHz-1GHz)	SCHAFFNER	CBL6112B	2797	2024-08-09	2025-08-08
Test software						
Name of Software:	WCS-RSE					
Version:	2021.11.04.01					

2.5.3. For AC Power-Line Conducted Emission

Item	Equipment Name	Manufacturer	Model	Serial No.	Calibration Date	Calibration Until
1	Test Receiver	R&S	ESPI	101679	2024.05.22	2025.05.21
2	LISN	R&S	ENV216	100300	2024.05.22	2025.05.21
3	LISN	R&S	ENV216	100333	2024.05.22	2025.05.21
4	Thermometer	DeLi	N/A	N/A	2024.09.22	2025.09.21
5	Test Software	FALA	EZ-EMC	N/A	N/A	N/A

2.6. Measurement Uncertainty

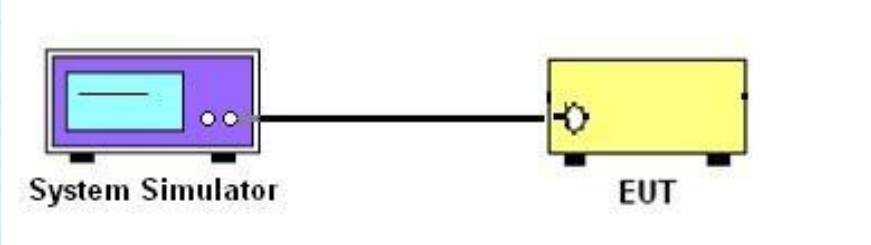
The reported uncertainty of measurement y±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Occupied Channel Bandwidth	±4%
2	Transmitter power conducted	±0.56 dB
3	Transmitter power Radiated	±2.20 dB
4	Conducted spurious emission	±1.60 dB
5	Radiated spurious emission	±2.20 dB
6	Temperature	±0.6℃
7	Humidity	±2%
8	DC and low frequency voltages	±0.05%
9	Radio frequency error	$\pm 3\times 10^{-8}$

3. TEST RESULT

3.1. Conducted Output Power and ERP/EIRP

3.1.1. Test Setup



3.1.2. Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5 and Band 26.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12 Band 17.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 andBand 7, Band 25,Band41.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66.

According to KDB 412172 D01 Power Approach, EIRP = $P_T + G_T - L_C$, ERP = EIRP -2.15, where P_T = transmitter output power in dBm, G_T = gain of the transmitting antenna in dBi, L_C= signal attenuation in the connecting cable between the transmitter and antenna in dB.

3.1.3. Test Procedures

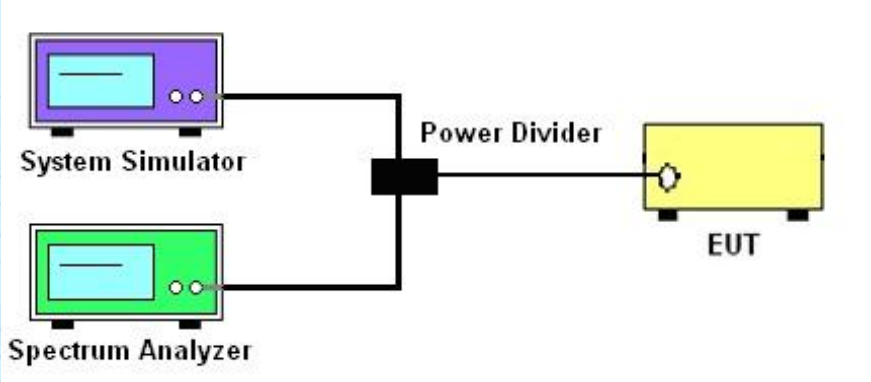
1. The testing follows ANSI C63.26 Section 5.2.
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.1.4. Test Result of Conducted Output Power and ERP/EIRP

Please refer to the Appendix C1.

3.2. Peak-to-Average Ratio

3.2.1. Test Setup



3.2.2. Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.2.3. Test Procedures

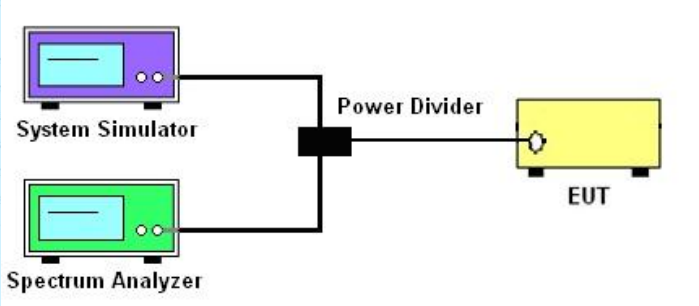
1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.2.4. Test Result of Peak-to-Average Ratio

Please refer to the Appendix C2.

3.3. Occupied Bandwidth

3.3.1. Test Setup



3.3.2. Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.3.3. Test Procedures

1. The testing follows ANSI C63.26 Section 5.4.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “–X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between

the two markers.

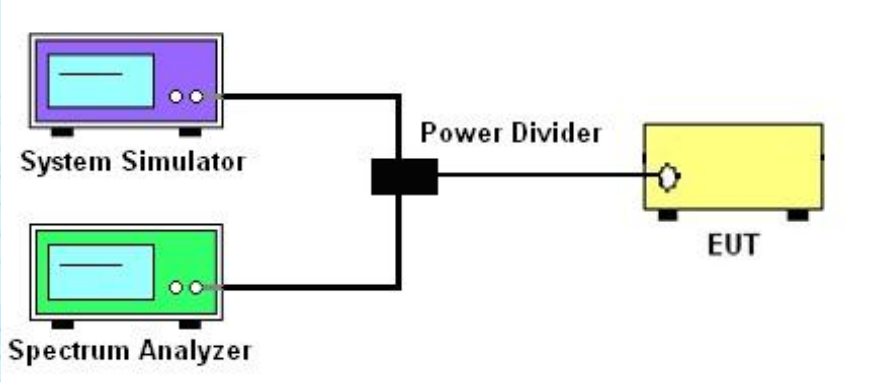
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.3.4. Test Result of Occupied Bandwidth

Please refer to the Appendix C3.

3.4. Conducted Band Edge

3.4.1. Test Setup



3.4.2. Description of Conducted Band Edge Measurement

22.917(a):

For operations in the 824 – 849 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a):

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (g):

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h):

For operations in the 1710 – 1755 MHz and 1710 – 1780 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.3. Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

   Example:

   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

   = P(W)- [43 + 10log(P)] (dB)

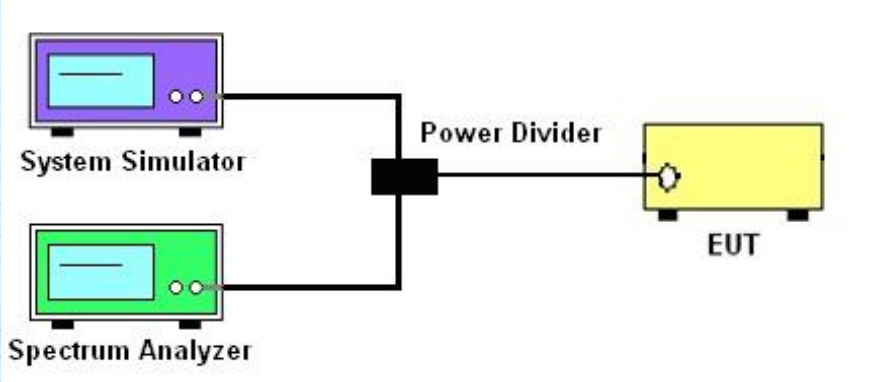
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm
9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.4.4. Test Result of Conducted Band Edge

Please refer to the Appendix C4.

3.5. Conducted Spurious Emission

3.5.1. Test Setup



3.5.2. Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.5.3. Test Procedures

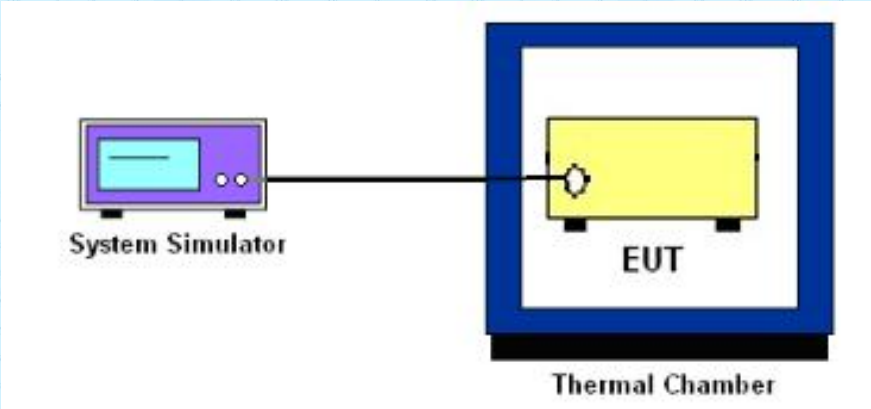
1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band
10. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB) = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.

3.5.4. Test Result of Conducted Spurious Emission

Please refer to the Appendix C5.

3.6. Frequency Stability

3.6.1. Test Setup



3.6.2. Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.6.3. Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.6.4. Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

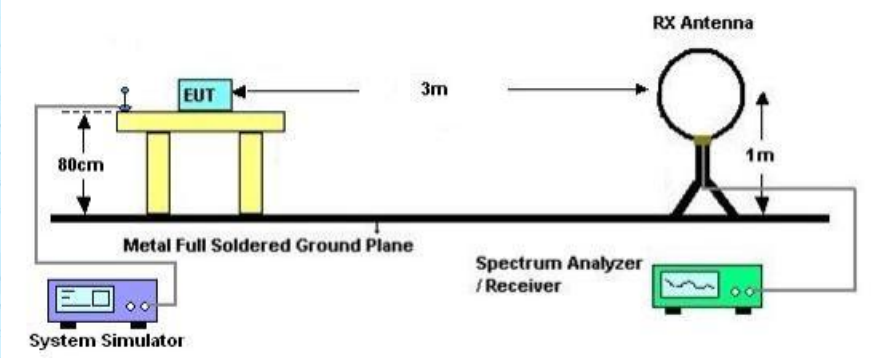
3.6.5. Test Result of Frequency Stability

Please refer to the Appendix C6.

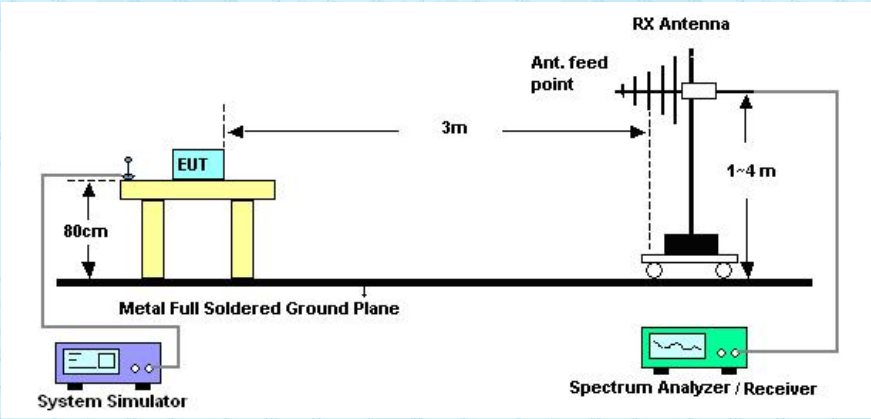
3.7. Radiated Spurious Emission

3.7.1. Test Setup

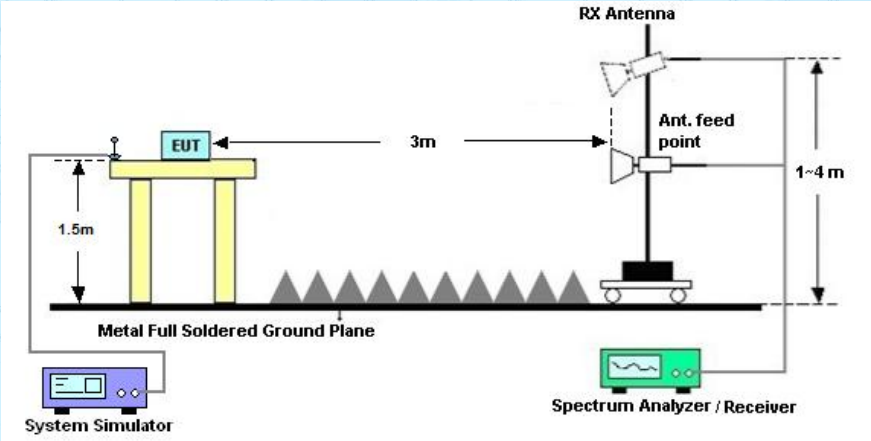
3.7.1.1. For radiated test below 30MHz



3.7.1.2. For radiated test from 30MHz to 1GHz



3.7.1.3. For radiated test above 1GHz



3.7.2. Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.7.3. Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

    = P(W)- [43 + 10log(P)] (dB)

    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)

    = -13dBm.

3.7.4. Test Result of Radiated Spurious Emission

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

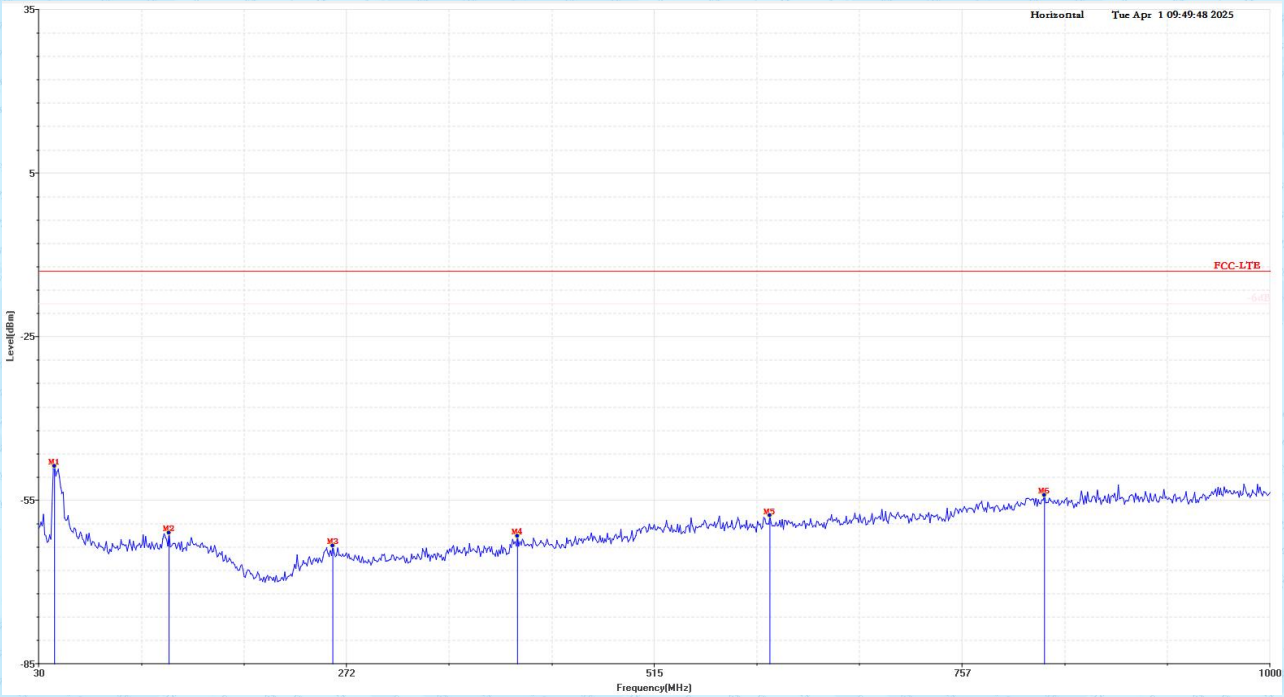
Radiated spurious emissions - MS allocated a channel：

Below 1GHz:
Only the worst model is shown

Test Mode	LTE Band 2_Traffic Mode_High CH_Main antenna
Test Bandwidth	20MHz

Horizontal

30MHz -1000MHz



Test Summary Result

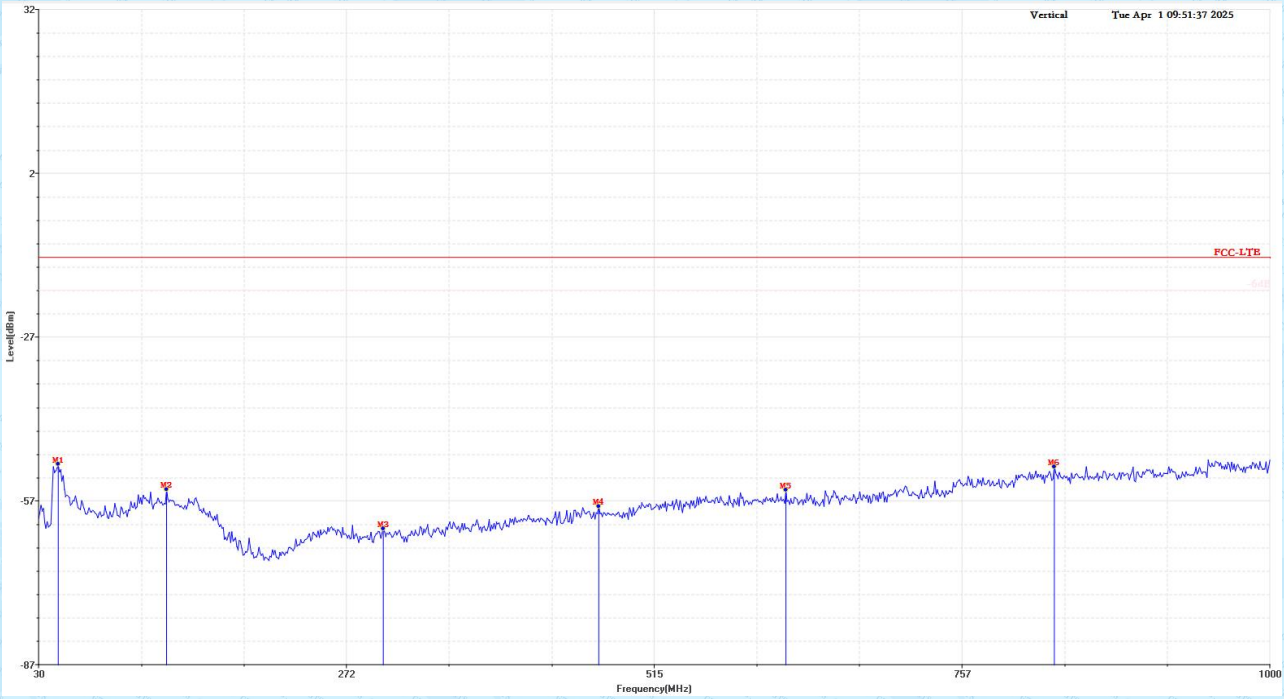
Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
*42.61	-48.01	-0.78	-48.79	-13.00	-35.79	0.00	Horizontal
132.82	-47.62	-13.41	-61.03	-13.00	-48.03	0.00	Horizontal
261.83	-48.10	-15.29	-63.39	-13.00	-50.39	0.00	Horizontal
407.33	-48.05	-13.56	-61.61	-13.00	-48.61	0.00	Horizontal
606.18	-47.82	-10.01	-57.83	-13.00	-44.83	0.00	Horizontal
822.49	-48.32	-5.79	-54.11	-13.00	-41.11	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency

Test Mode	LTE Band 2_Traffic Mode_High CH_Main antenna
Test Bandwidth	20MHz

Vertical

30MHz -1000MHz

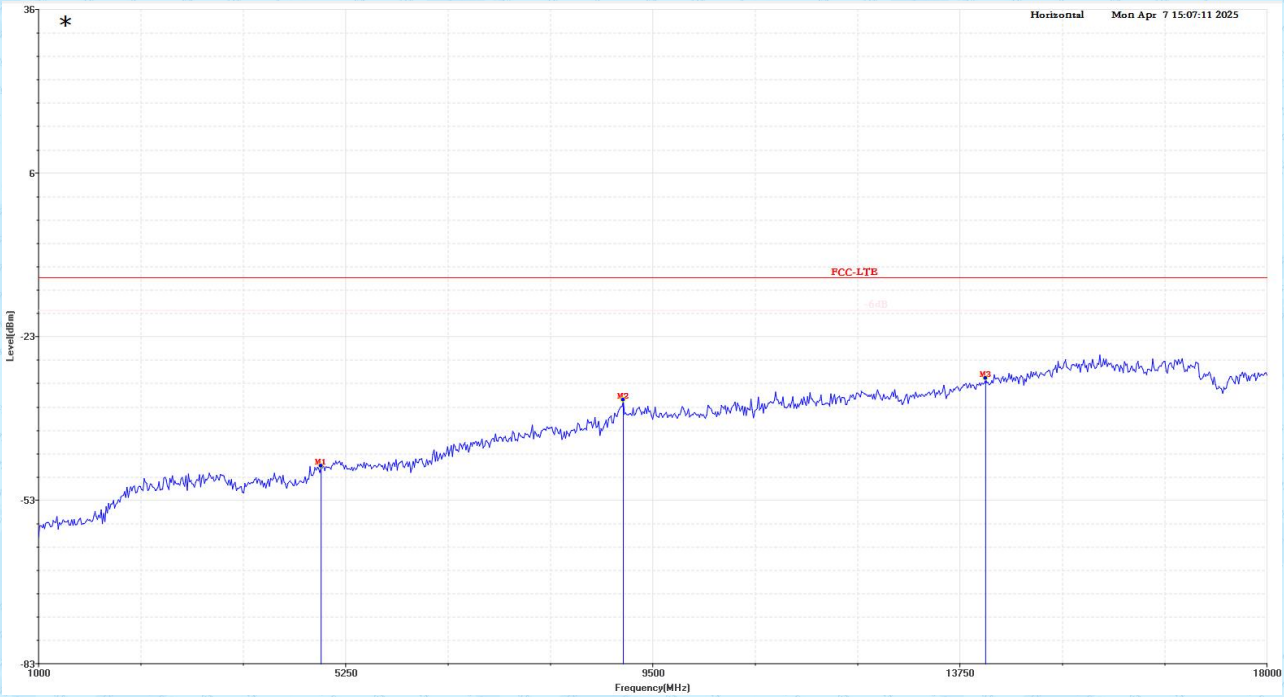


Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
*45.52	-49.28	-1.60	-50.88	-13.00	-37.88	0.00	Vertical
130.88	-47.29	-8.24	-55.53	-13.00	-42.53	0.00	Vertical
301.60	-48.14	-14.57	-62.71	-13.00	-49.71	0.00	Vertical
471.35	-48.21	-10.43	-58.64	-13.00	-45.64	0.00	Vertical
618.79	-47.54	-8.08	-55.62	-13.00	-42.62	0.00	Vertical
830.25	-47.64	-3.74	-51.38	-13.00	-38.38	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Above1GHz:

Test Mode	LTE Band 2_Traffic Mode_High CH_Main antenna
Test Bandwidth	20MHz
Horizontal	



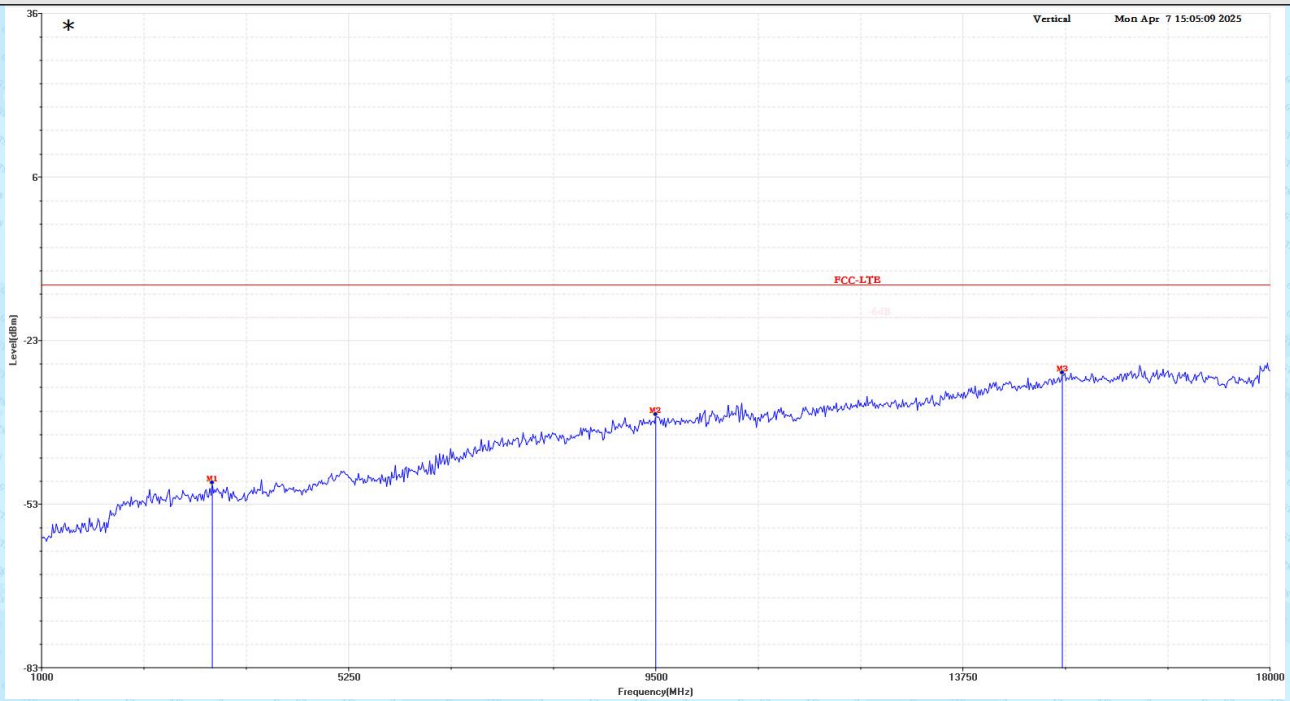
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4910.00	-57.41	9.86	-47.55	-13.00	-34.55	0.00	Horizontal
9092.00	-55.31	19.89	-35.42	-13.00	-22.42	0.00	Horizontal
*14107.00	-53.84	22.39	-31.45	-13.00	-18.45	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 2_Traffic Mode_High CH_Main antenna
Test Bandwidth	20MHz

Vertical



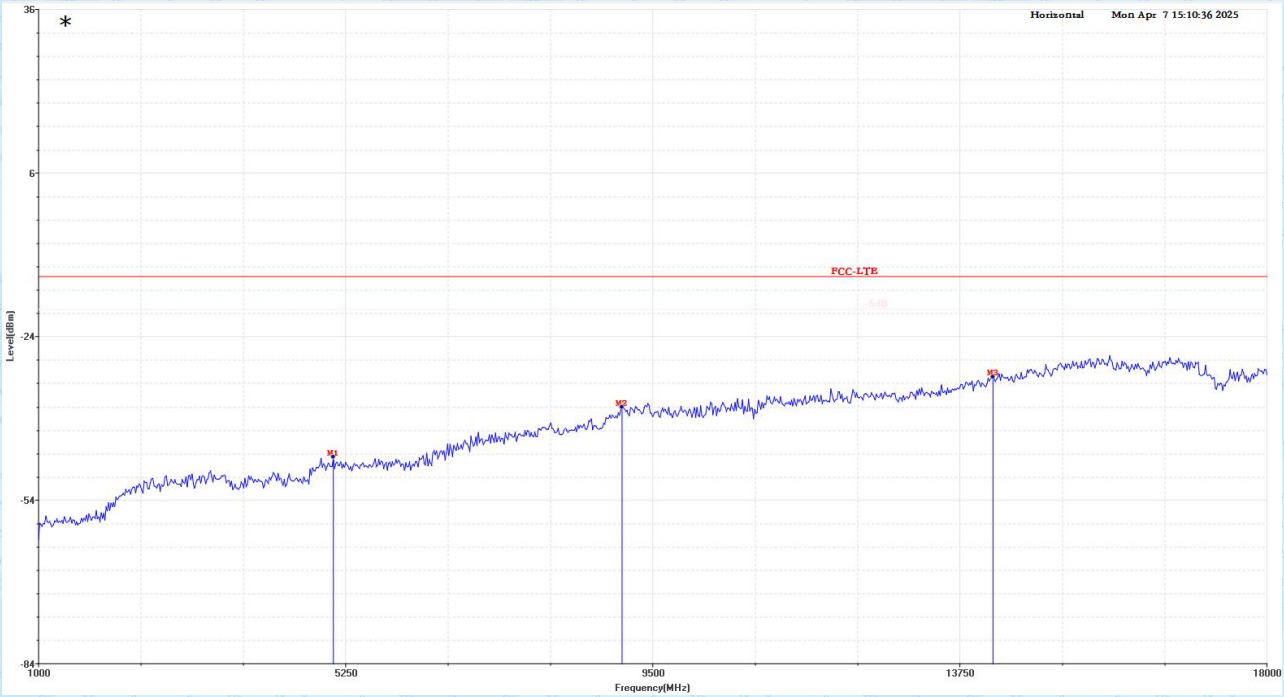
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
3363.00	-54.46	5.17	-49.29	-13.00	-36.29	0.00	Vertical
9500.00	-56.25	19.49	-36.76	-13.00	-23.76	0.00	Vertical
*15127.00	-52.78	23.67	-29.11	-13.00	-16.11	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 2_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	20MHz

Horizontal



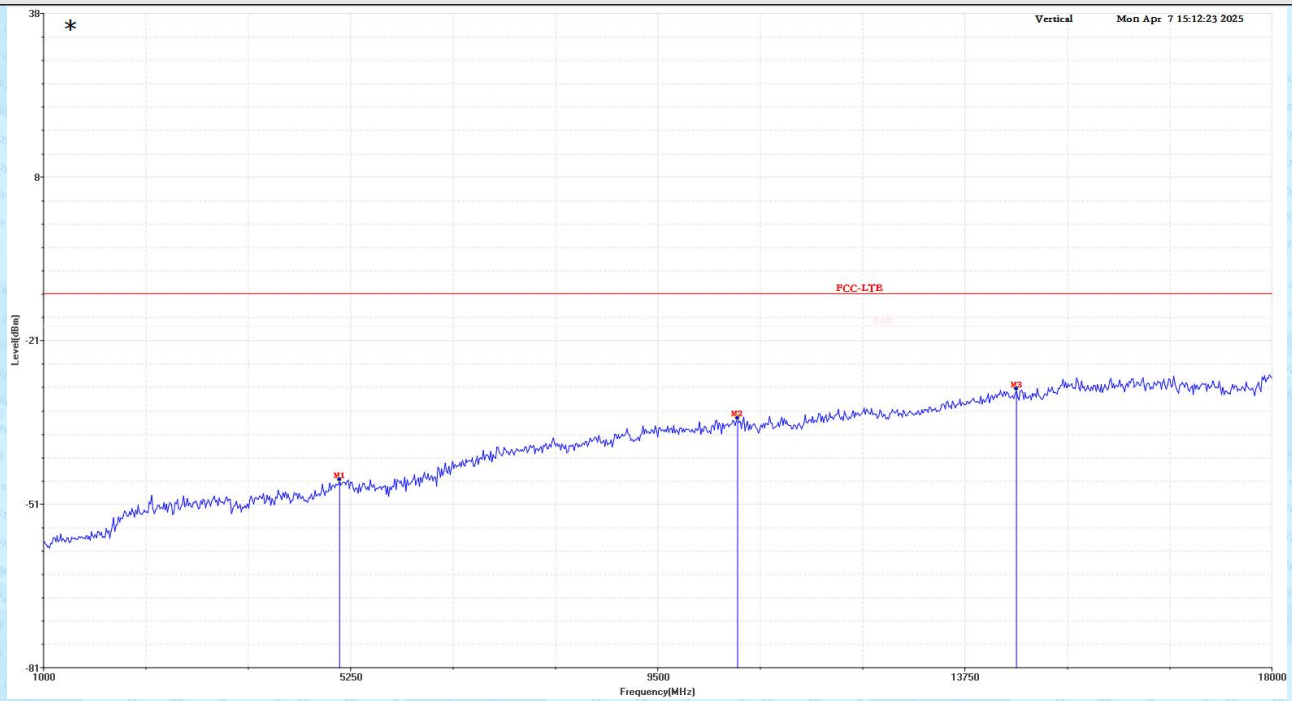
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5080.00	-55.94	9.84	-46.10	-13.00	-33.10	0.00	Horizontal
9075.00	-56.86	19.89	-36.97	-13.00	-23.97	0.00	Horizontal
*14209.00	-53.82	22.39	-31.43	-13.00	-18.43	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 2_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	20MHz

Vertical



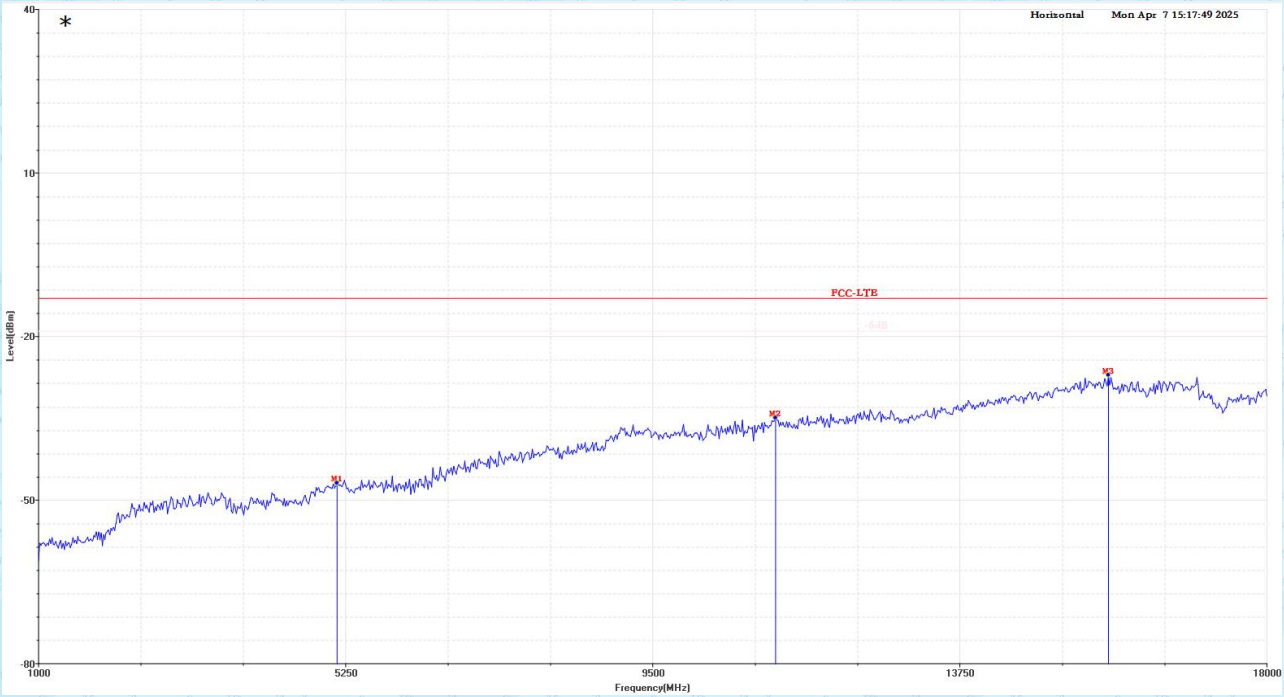
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5097.00	-56.31	9.20	-47.11	-13.00	-34.11	0.00	Vertical
10605.00	-56.57	20.73	-35.84	-13.00	-22.84	0.00	Vertical
*14464.00	-53.04	22.60	-30.44	-13.00	-17.44	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 2_Traffic Mode_Low CH_Main antenna
Test Bandwidth	20MHz

Horizontal



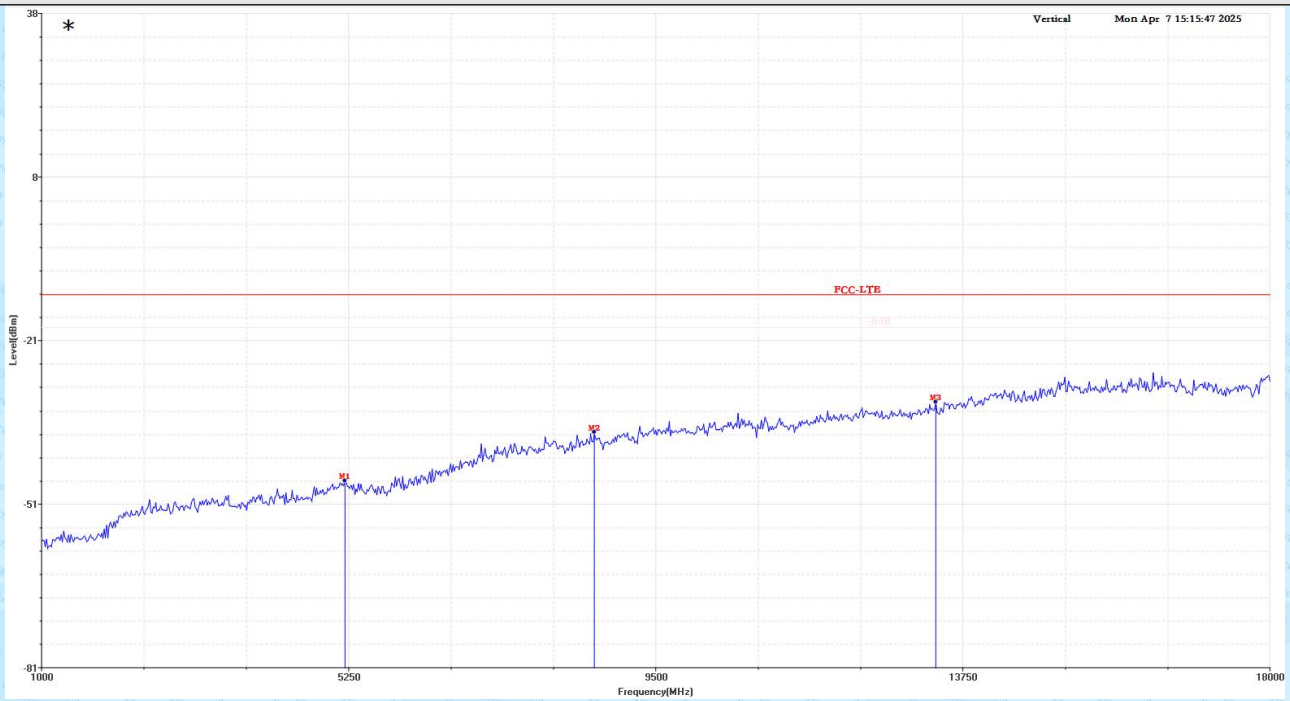
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5131.00	-56.78	9.90	-46.88	-13.00	-33.88	0.00	Horizontal
11200.00	-55.37	20.44	-34.93	-13.00	-21.93	0.00	Horizontal
*15807.00	-51.82	24.74	-27.08	-13.00	-14.08	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 2_Traffic Mode_Low CH_Main antenna
Test Bandwidth	20MHz

Vertical



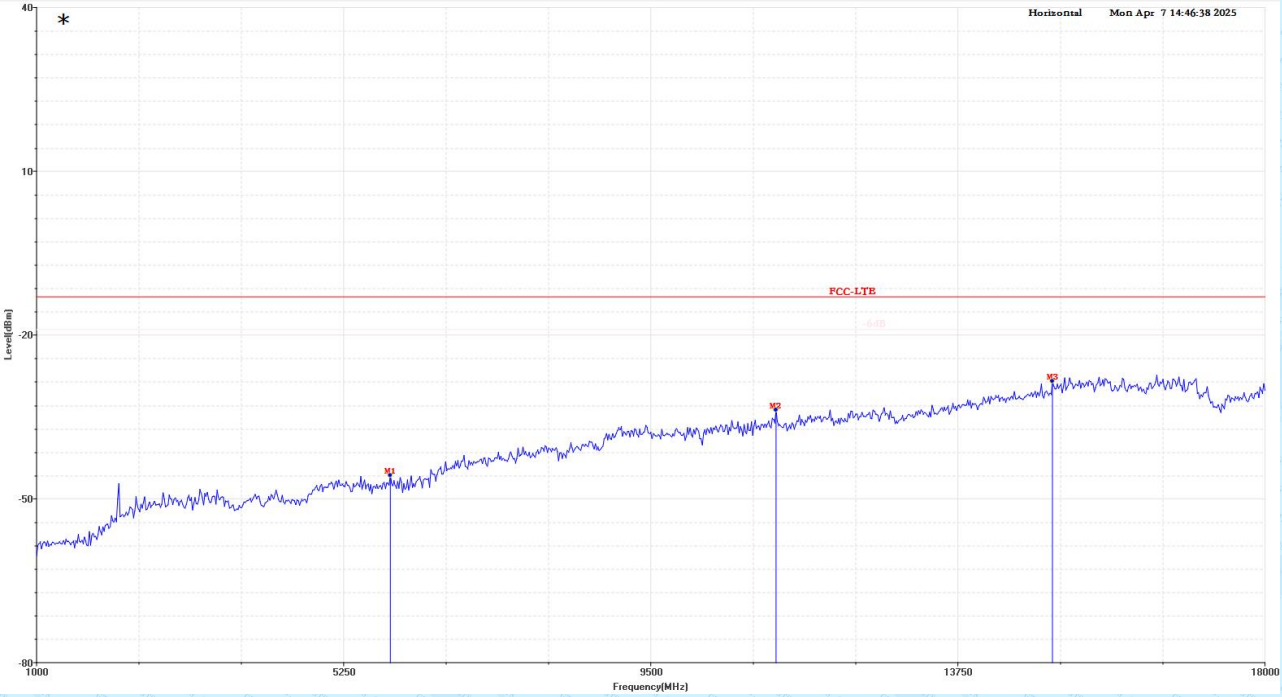
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5199.00	-56.69	9.55	-47.14	-13.00	-34.14	0.00	Vertical
8650.00	-55.59	17.38	-38.21	-13.00	-25.21	0.00	Vertical
*13376.00	-53.43	20.74	-32.69	-13.00	-19.69	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 4_Traffic Mode_High CH_Main antenna
Test Bandwidth	20MHz

Horizontal



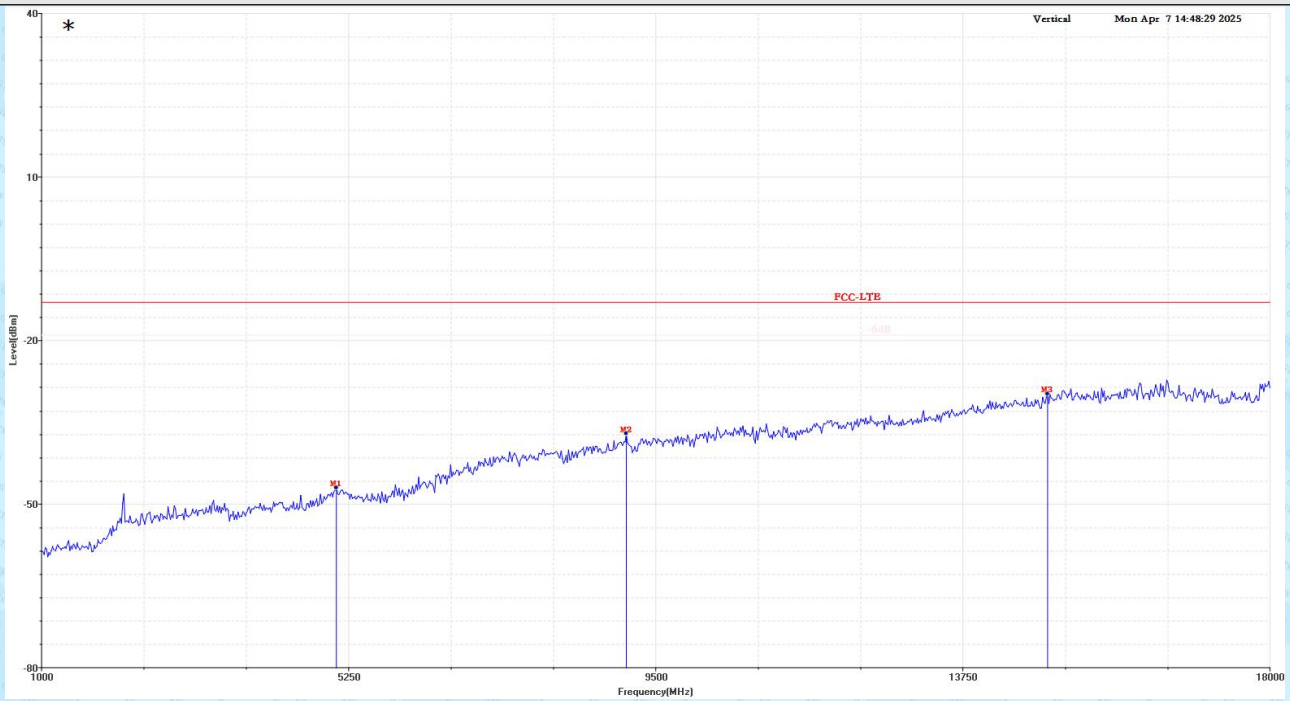
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5896.00	-56.19	10.47	-45.72	-13.00	-32.72	0.00	Horizontal
11234.00	-54.18	20.44	-33.74	-13.00	-20.74	0.00	Horizontal
*15059.00	-52.56	24.09	-28.47	-13.00	-15.47	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 4_Traffic Mode_High CH_Main antenna
Test Bandwidth	20MHz

Vertical



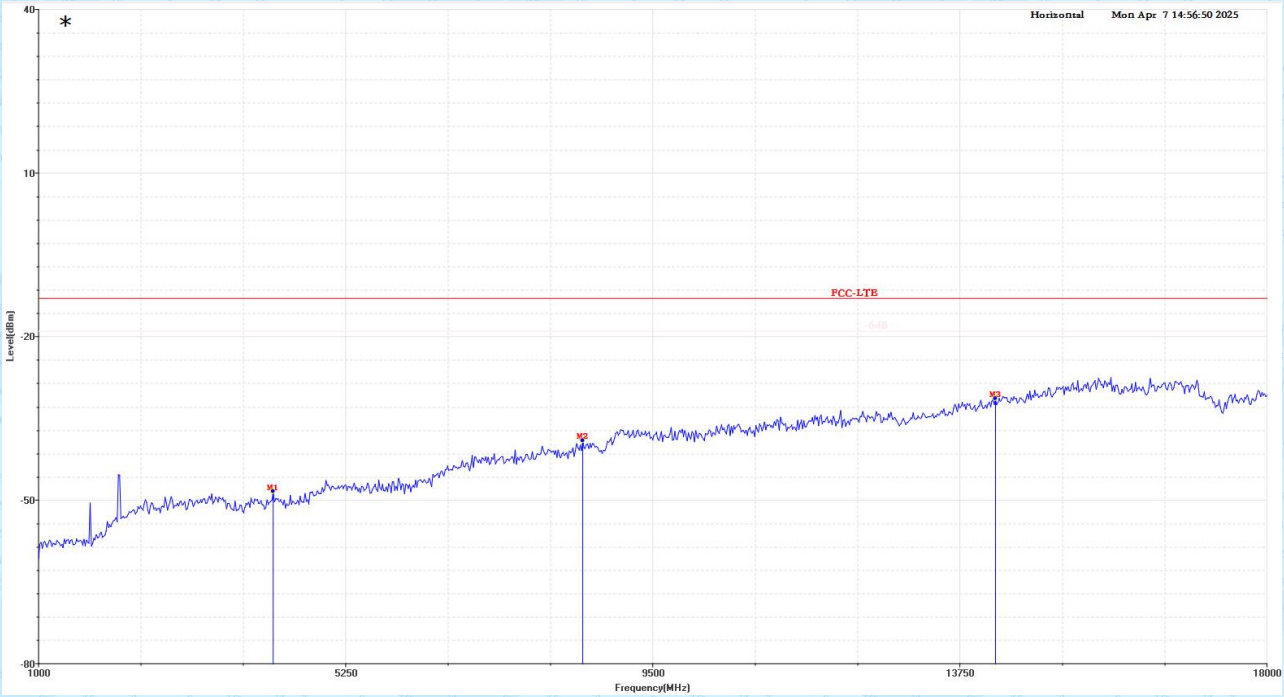
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5080.00	-56.21	9.20	-47.01	-13.00	-34.01	0.00	Vertical
9092.00	-55.26	18.20	-37.06	-13.00	-24.06	0.00	Vertical
*14923.00	-52.94	23.13	-29.81	-13.00	-16.81	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 4_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	20MHz

Horizontal



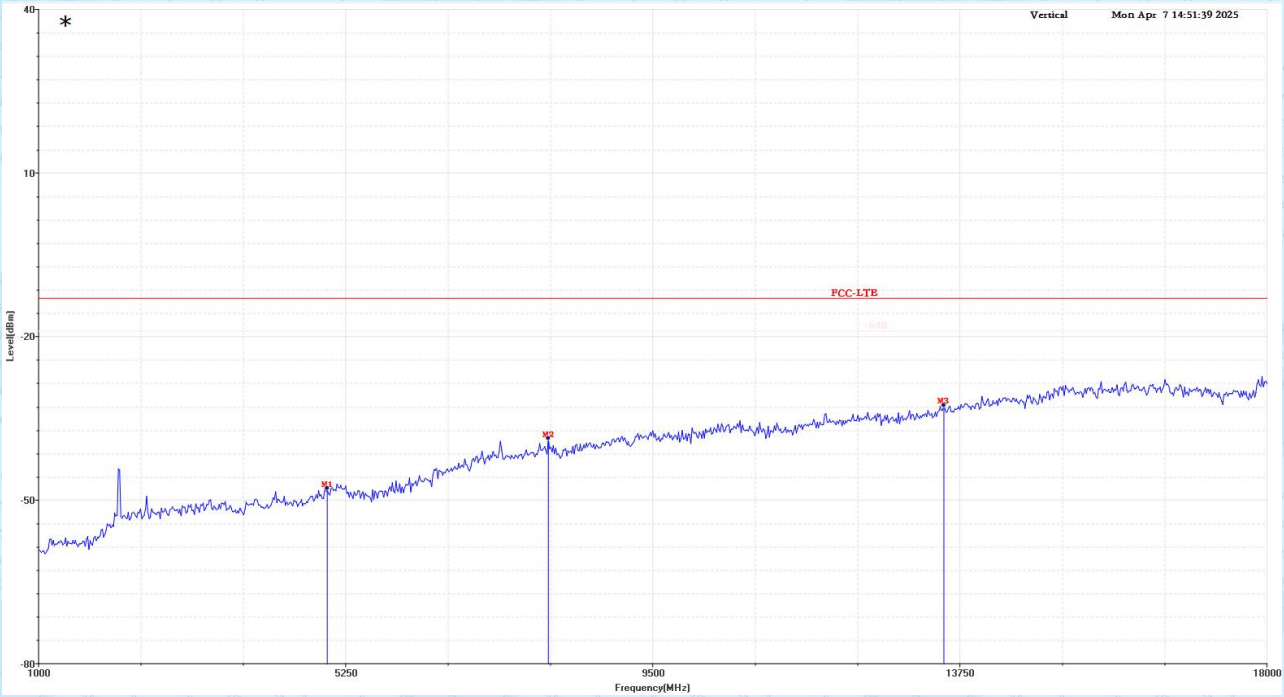
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4247.00	-56.09	7.69	-48.40	-13.00	-35.40	0.00	Horizontal
8531.00	-55.98	16.90	-39.08	-13.00	-26.08	0.00	Horizontal
*14243.00	-53.76	22.39	-31.37	-13.00	-18.37	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 4_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	20MHz

Vertical



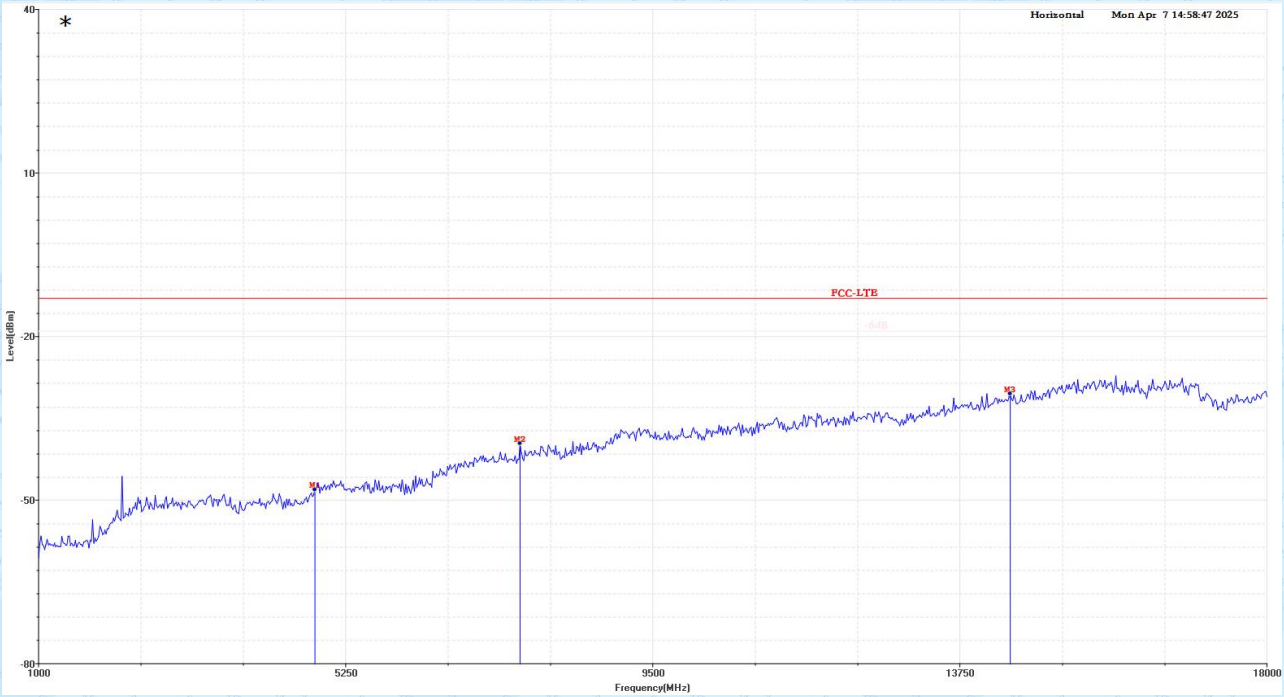
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4995.00	-57.05	9.20	-47.85	-13.00	-34.85	0.00	Vertical
8055.00	-55.15	16.47	-38.68	-13.00	-25.68	0.00	Vertical
*13529.00	-53.93	21.31	-32.62	-13.00	-19.62	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 4_Traffic Mode_Low CH_Main antenna
Test Bandwidth	20MHz

Horizontal



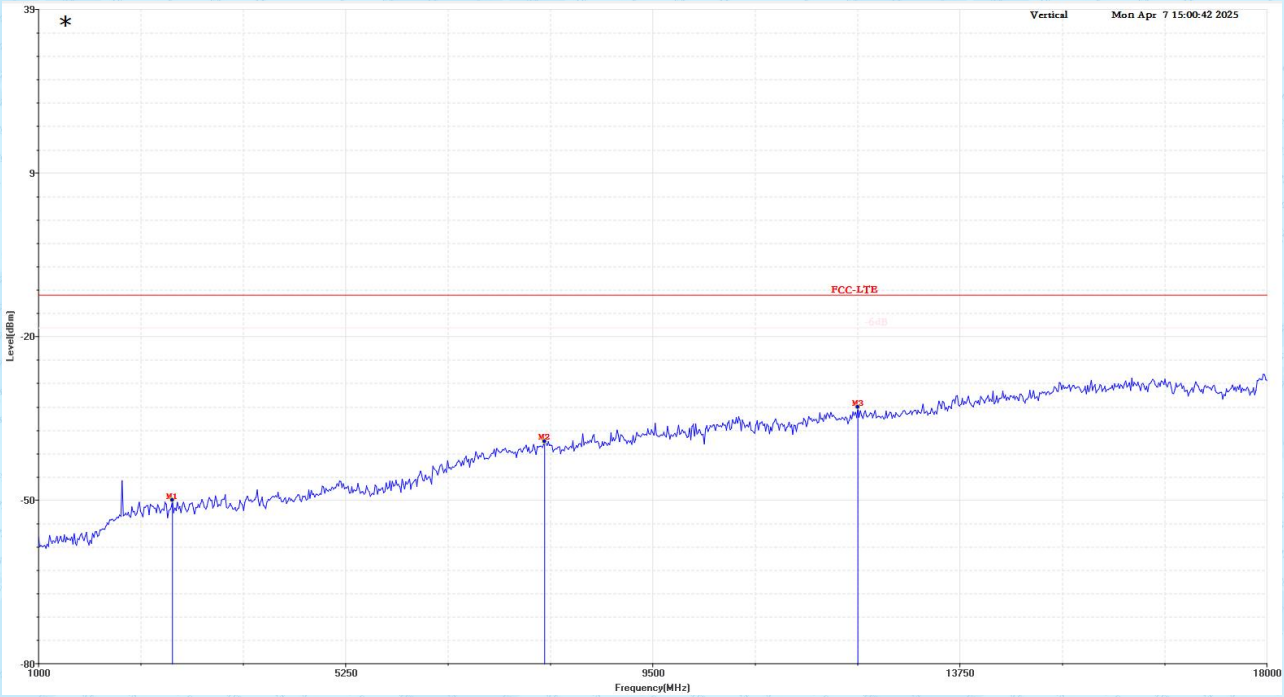
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4825.00	-56.96	8.87	-48.09	-13.00	-35.09	0.00	Horizontal
7664.00	-55.28	15.66	-39.62	-13.00	-26.62	0.00	Horizontal
*14447.00	-53.19	22.68	-30.51	-13.00	-17.51	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 4_Traffic Mode_Low CH_Main antenna
Test Bandwidth	20MHz

Vertical



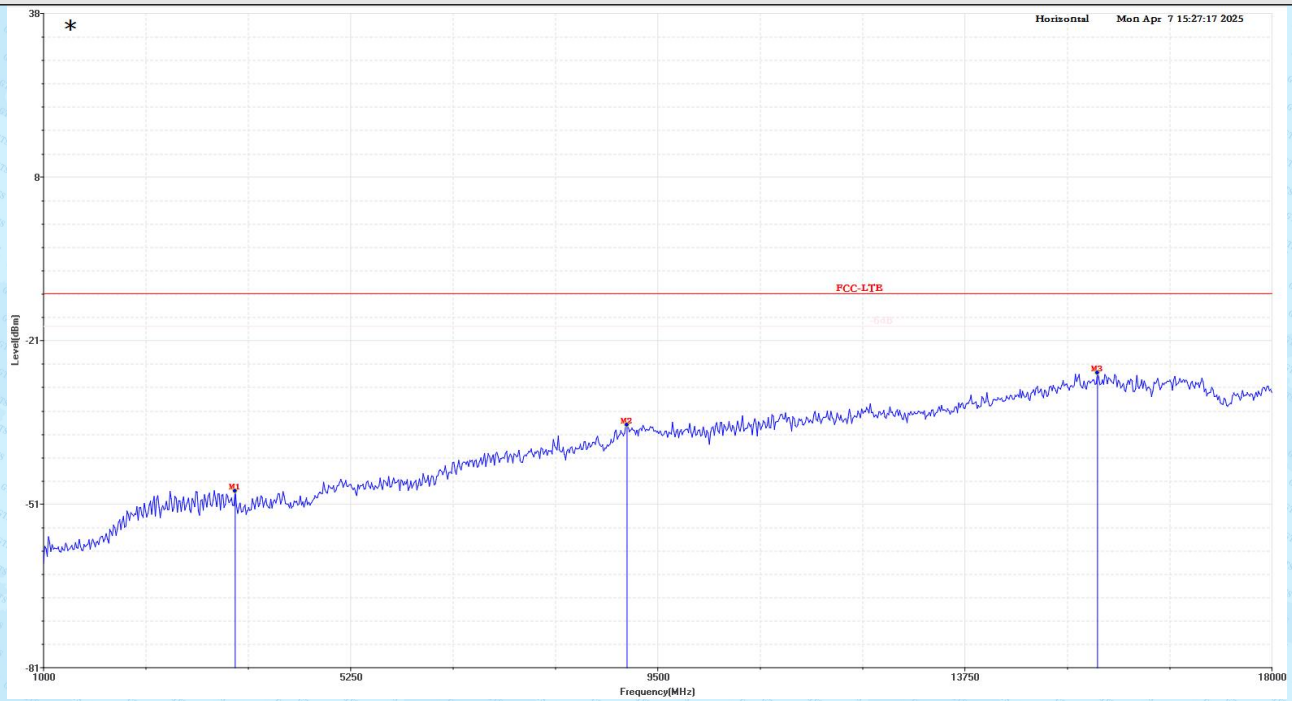
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
2853.00	-54.96	4.34	-50.62	-13.00	-37.62	0.00	Vertical
8004.00	-56.34	16.48	-39.86	-13.00	-26.86	0.00	Vertical
*12339.00	-54.18	20.62	-33.56	-13.00	-20.56	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 5_Traffic Mode_High CH_Main antenna
Test Bandwidth	10MHz

Horizontal



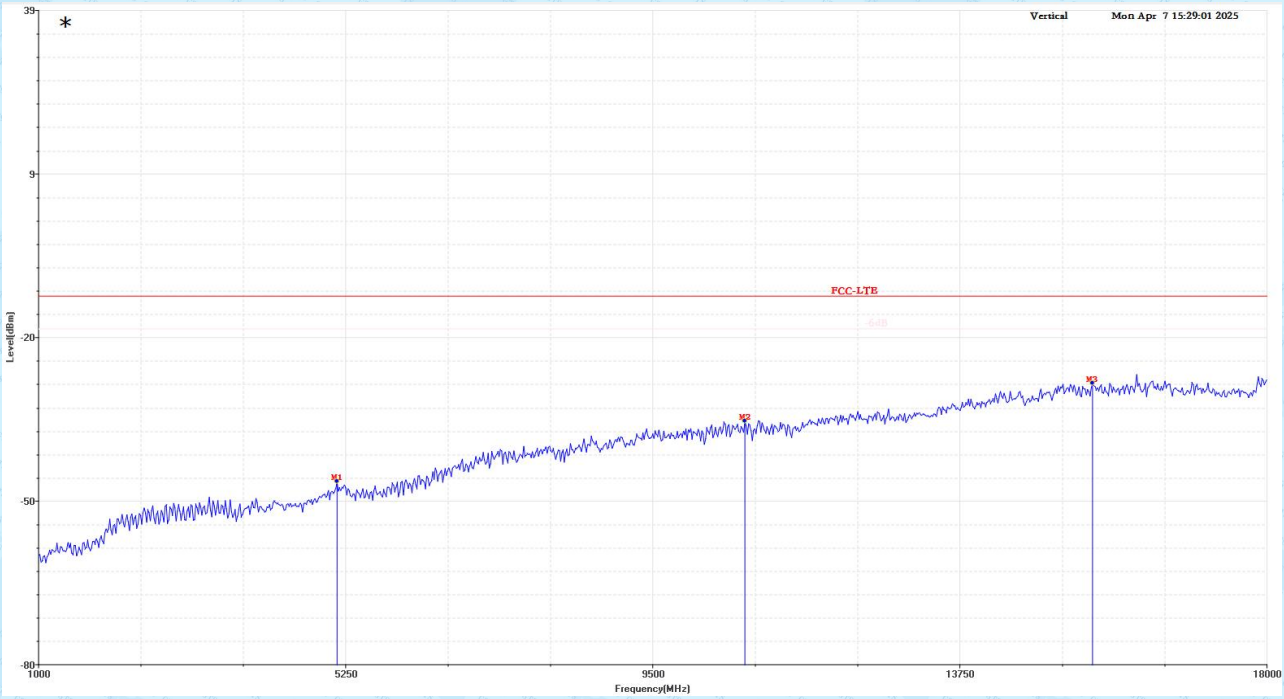
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
3652.00	-55.92	6.70	-49.22	-13.00	-36.22	0.00	Horizontal
9075.00	-56.98	19.89	-37.09	-13.00	-24.09	0.00	Horizontal
*15586.00	-52.18	24.64	-27.54	-13.00	-14.54	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 5_Traffic Mode_High CH_Main antenna
Test Bandwidth	10MHz

Vertical



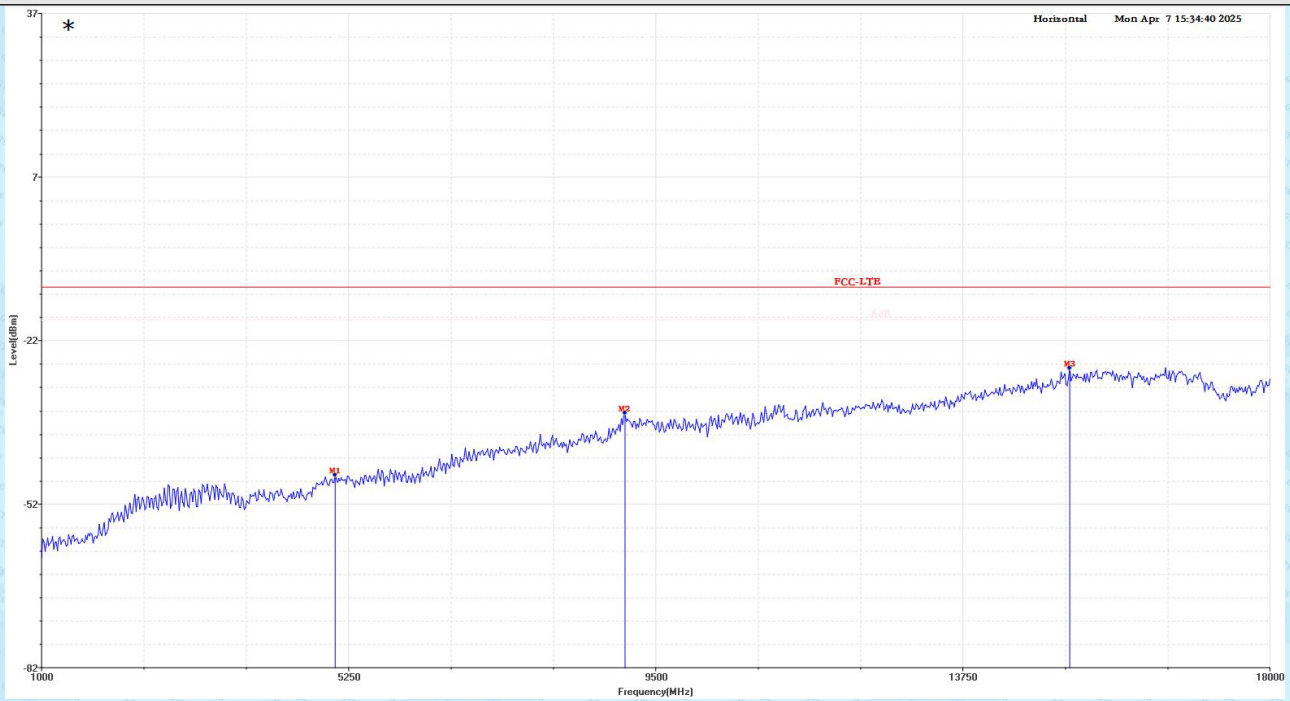
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5131.00	-56.53	9.55	-46.98	-13.00	-33.98	0.00	Vertical
10775.00	-56.66	20.75	-35.91	-13.00	-22.91	0.00	Vertical
*15586.00	-52.46	23.49	-28.97	-13.00	-15.97	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 5_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	10MHz

Horizontal



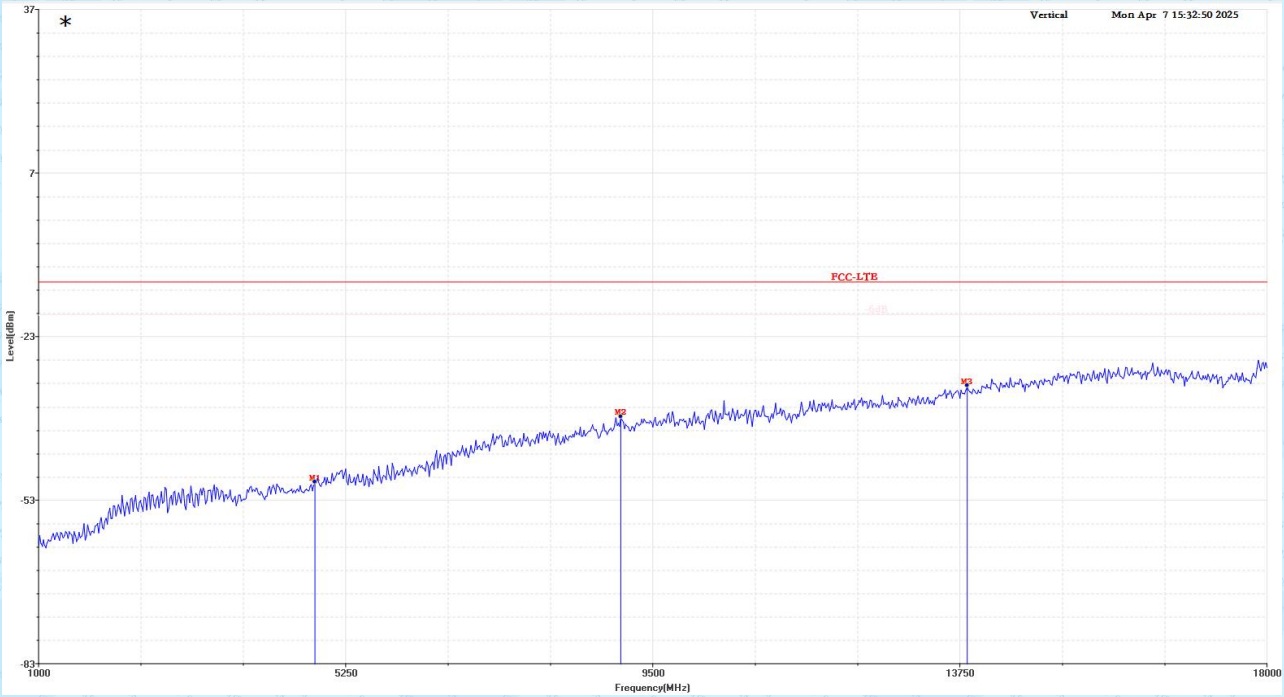
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5063.00	-57.32	9.84	-47.48	-13.00	-34.48	0.00	Horizontal
9075.00	-55.98	19.89	-36.09	-13.00	-23.09	0.00	Horizontal
*15229.00	-51.95	24.09	-27.86	-13.00	-14.86	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 5_Traffic Mode_MinCH_Main antenna
Test Bandwidth	10MHz

Vertical



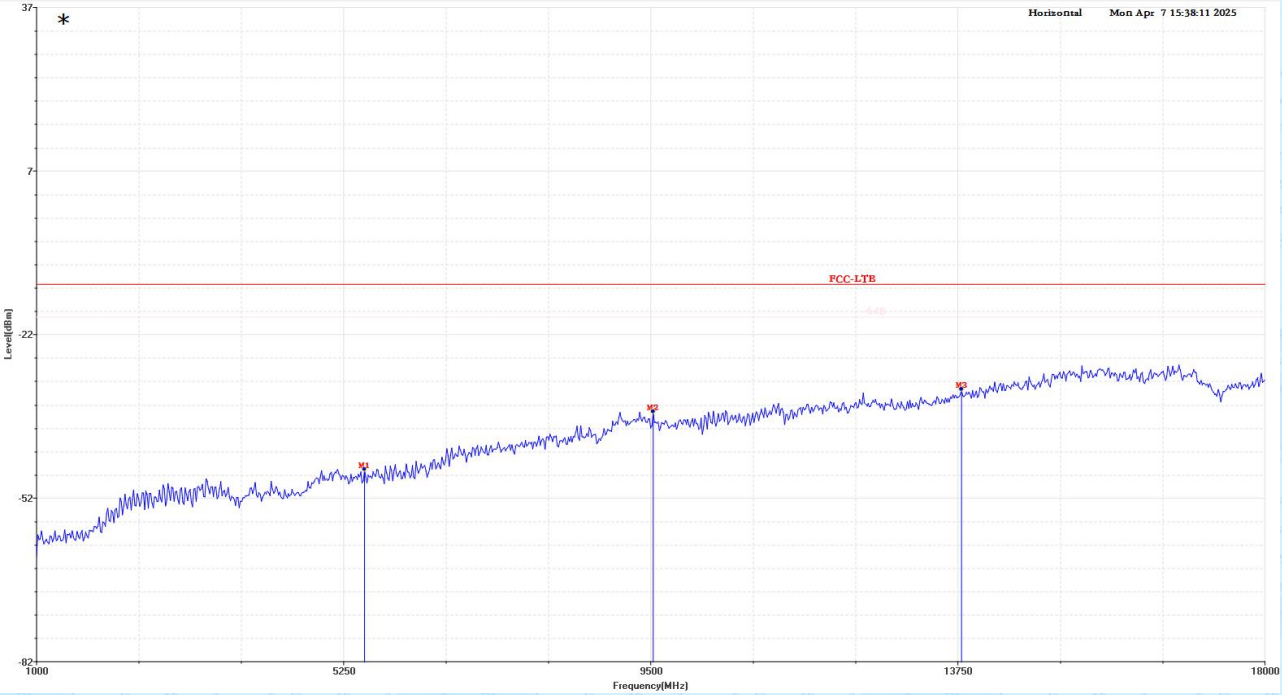
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4825.00	-57.77	8.10	-49.67	-13.00	-36.67	0.00	Vertical
9058.00	-55.89	18.20	-37.69	-13.00	-24.69	0.00	Vertical
*13852.00	-53.94	21.96	-31.98	-13.00	-18.98	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 5_Traffic Mode_Low CH_Main antenna
Test Bandwidth	10MHz

Horizontal



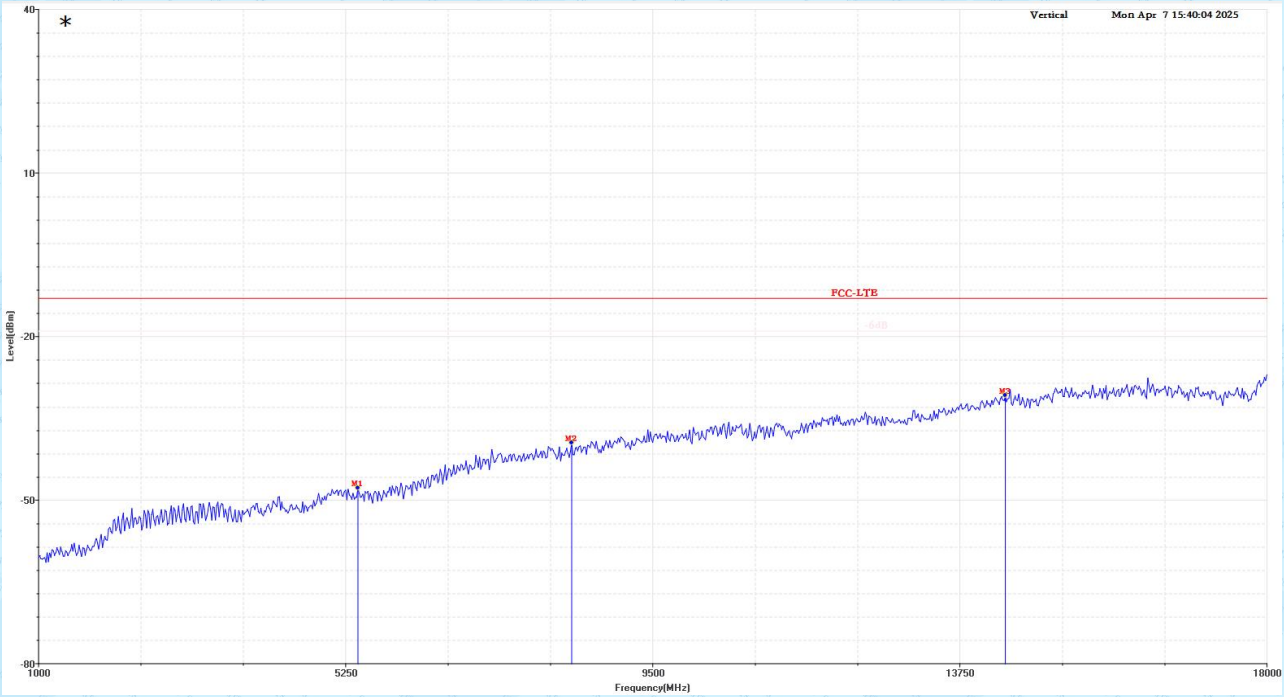
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5539.00	-56.83	9.91	-46.92	-13.00	-33.92	0.00	Horizontal
9534.00	-55.78	19.44	-36.34	-13.00	-23.34	0.00	Horizontal
*13801.00	-53.71	21.48	-32.23	-13.00	-19.23	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 5_Traffic Mode_Low CH_Main antenna
Test Bandwidth	10MHz

Vertical



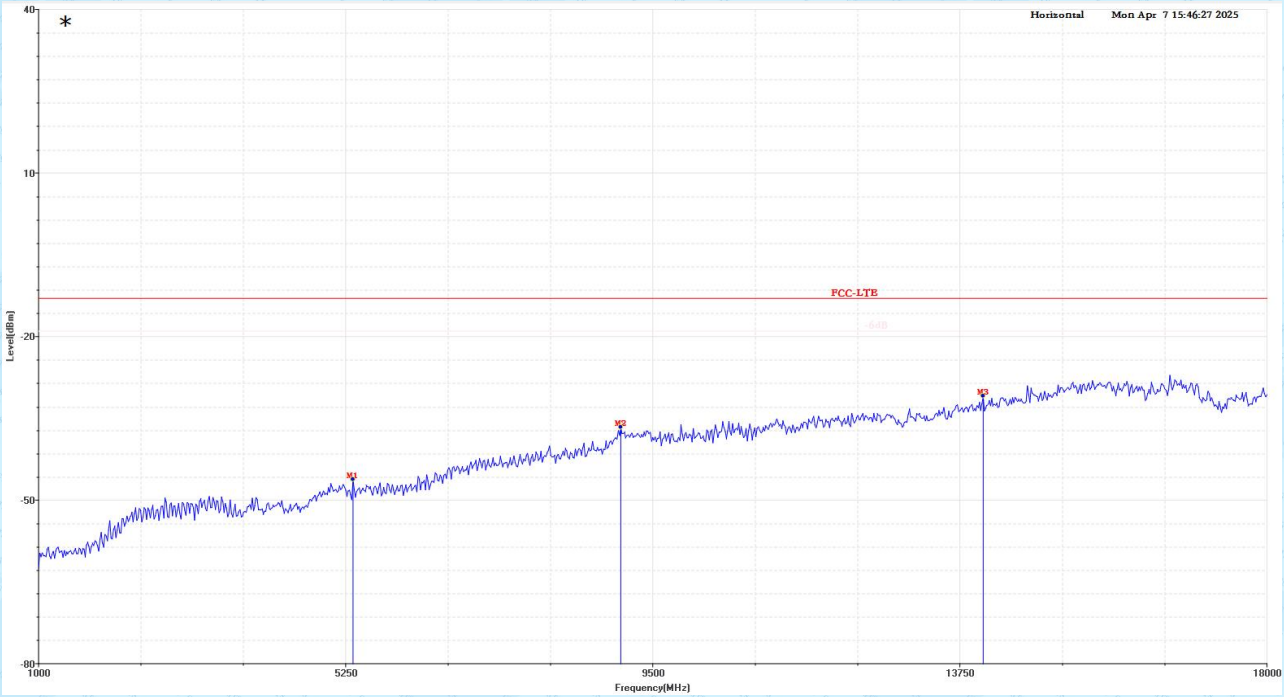
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5420.00	-56.90	9.11	-47.79	-13.00	-34.79	0.00	Vertical
8378.00	-56.19	16.70	-39.49	-13.00	-26.49	0.00	Vertical
*14379.00	-53.53	22.74	-30.79	-13.00	-17.79	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 12_Traffic Mode_High CH_Main antenna
Test Bandwidth	10MHz

Horizontal



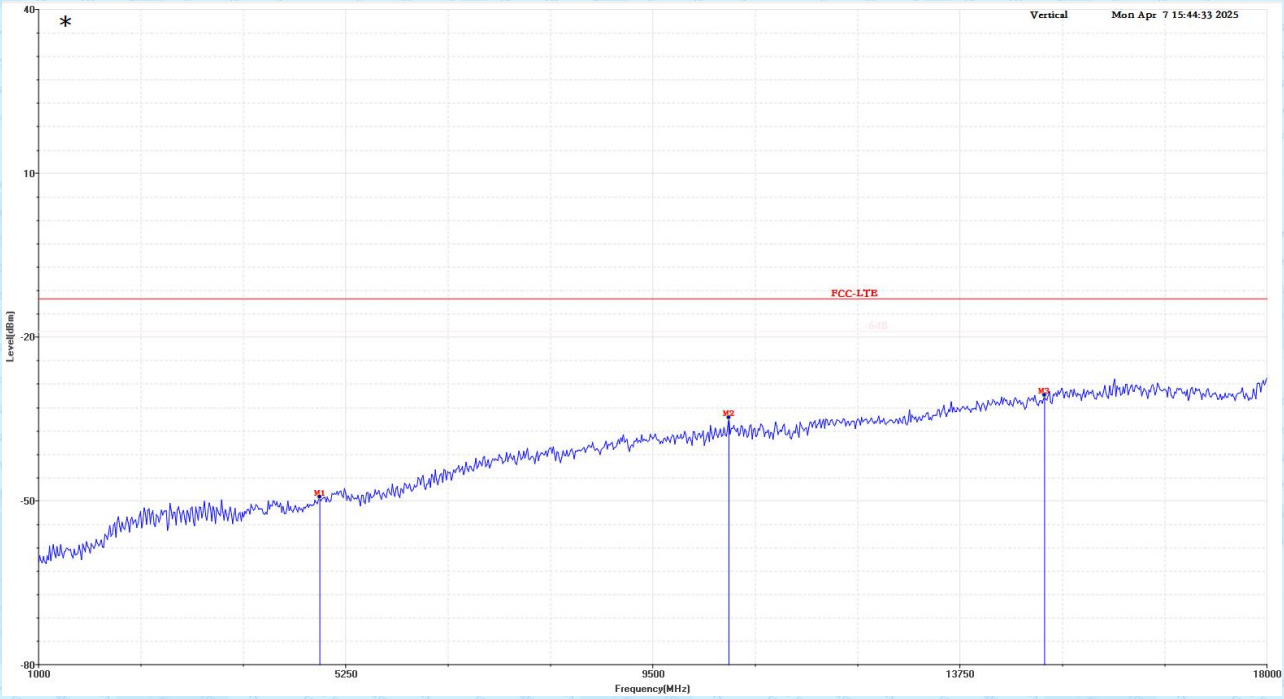
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5352.00	-56.16	9.95	-46.21	-13.00	-33.21	0.00	Horizontal
9058.00	-56.52	19.89	-36.63	-13.00	-23.63	0.00	Horizontal
*14073.00	-53.30	22.39	-30.91	-13.00	-17.91	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 12_Traffic Mode_High CH_Main antenna
Test Bandwidth	10MHz

Vertical



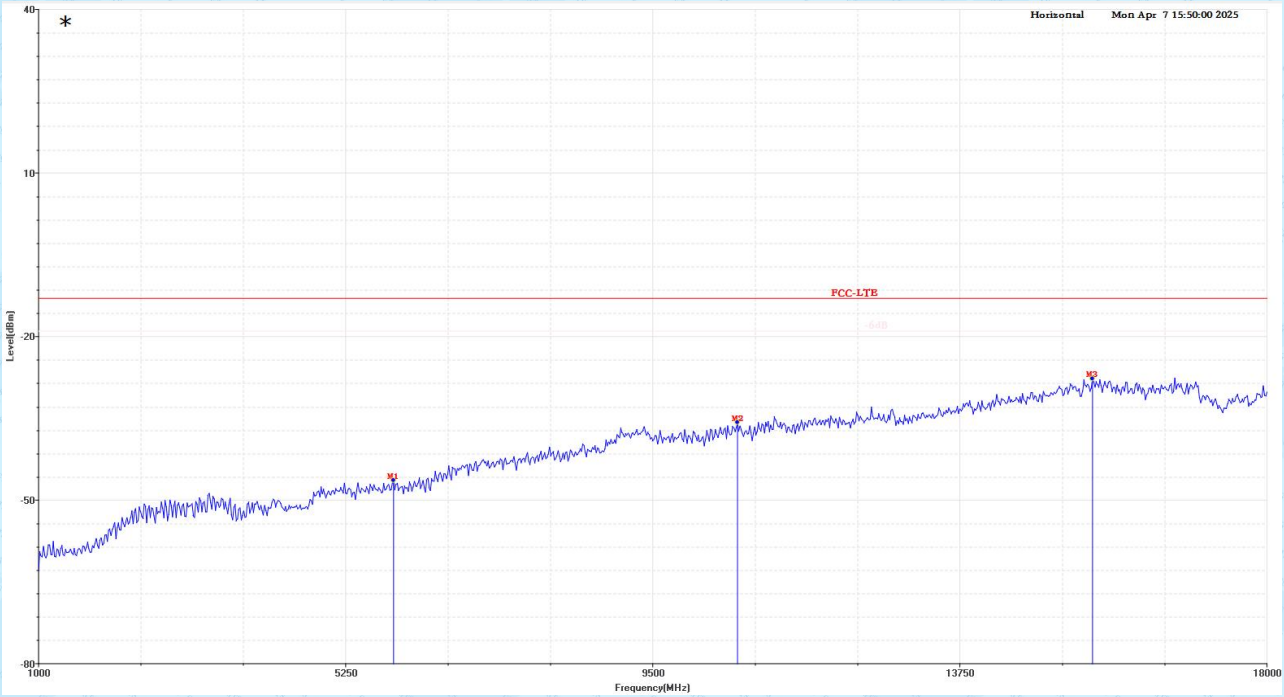
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4893.00	-57.98	8.68	-49.30	-13.00	-36.30	0.00	Vertical
10554.00	-55.49	20.73	-34.76	-13.00	-21.76	0.00	Vertical
*14923.00	-53.77	23.13	-30.64	-13.00	-17.64	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 12_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	10MHz

Horizontal



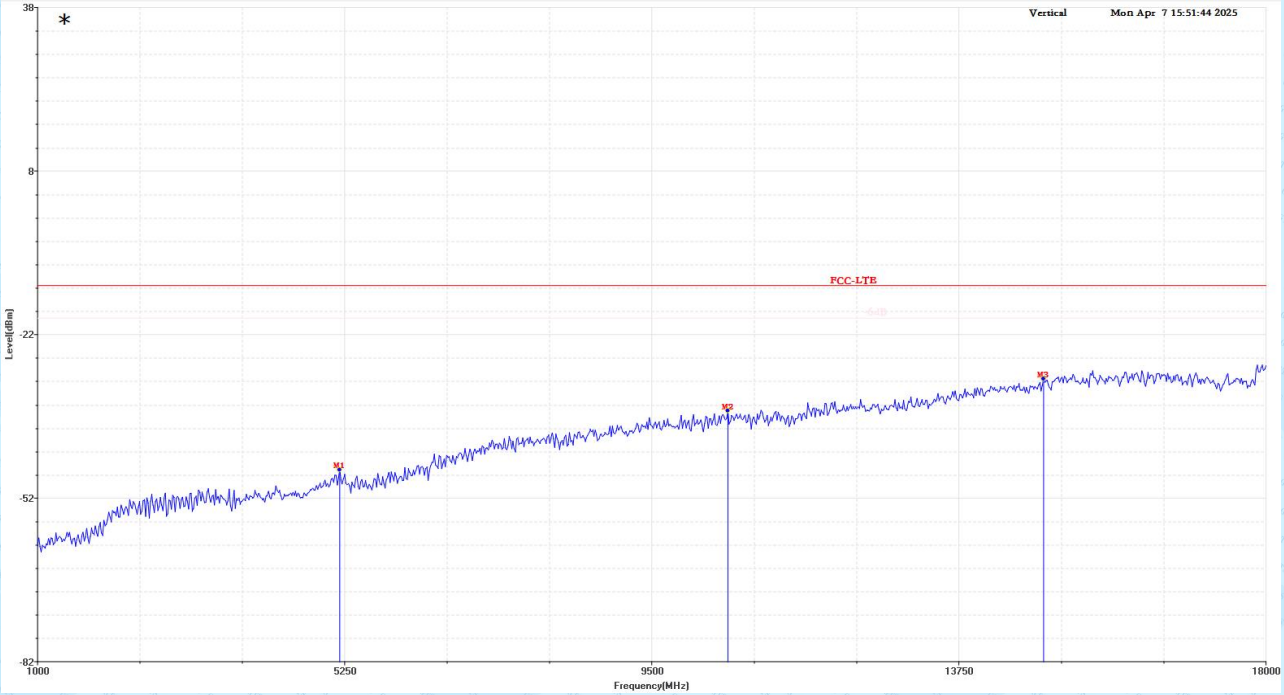
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5913.00	-56.86	10.47	-46.39	-13.00	-33.39	0.00	Horizontal
10673.00	-56.23	20.47	-35.76	-13.00	-22.76	0.00	Horizontal
*15586.00	-52.39	24.64	-27.75	-13.00	-14.75	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 12_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	10MHz

Vertical



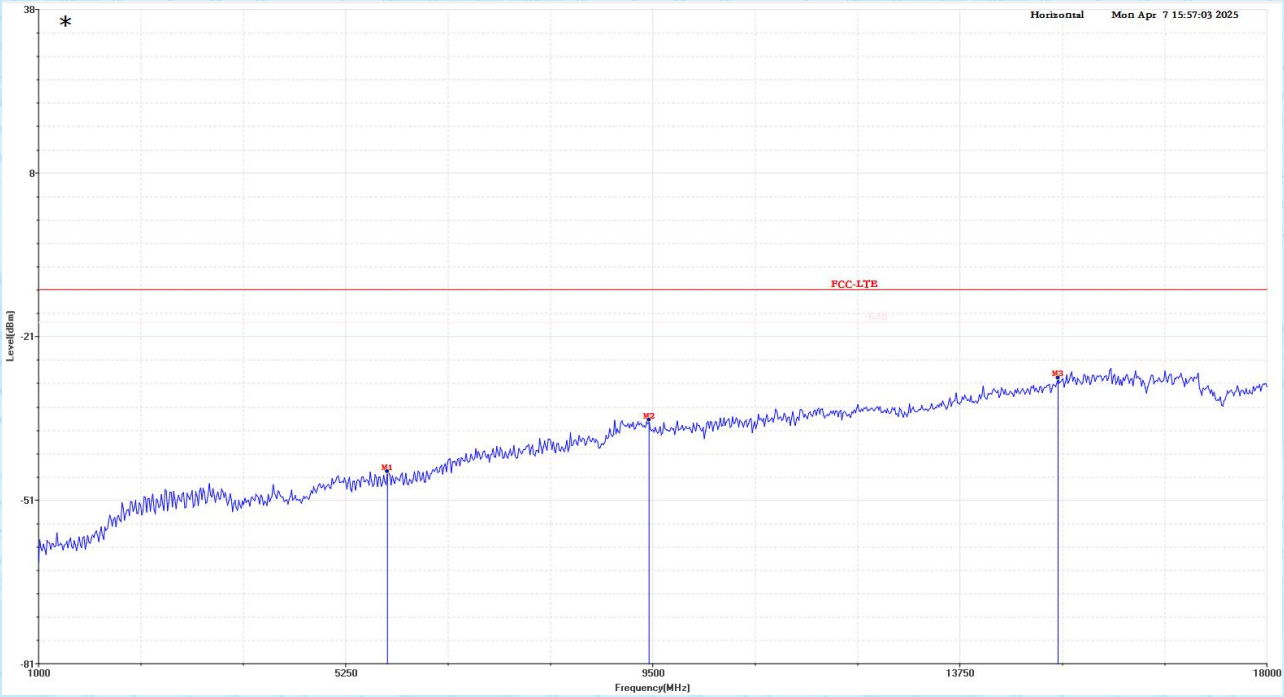
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5182.00	-56.39	9.55	-46.84	-13.00	-33.84	0.00	Vertical
10554.00	-56.72	20.73	-35.99	-13.00	-22.99	0.00	Vertical
*14923.00	-53.28	23.13	-30.15	-13.00	-17.15	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 12_Traffic Mode_Low CH_Main antenna
Test Bandwidth	10MHz

Horizontal



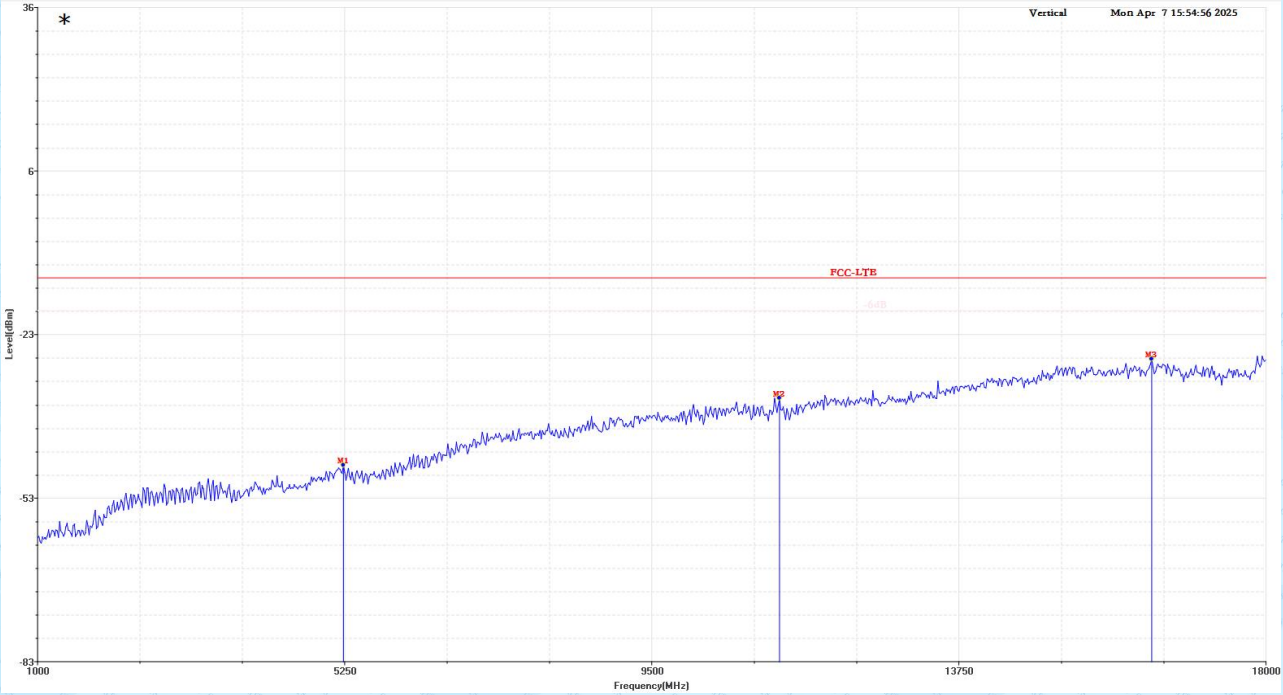
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5828.00	-56.59	10.25	-46.34	-13.00	-33.34	0.00	Horizontal
9449.00	-56.73	19.84	-36.89	-13.00	-23.89	0.00	Horizontal
*15110.00	-53.29	24.09	-29.20	-13.00	-16.20	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 12_Traffic Mode_Low CH_Main antenna
Test Bandwidth	10MHz

Vertical



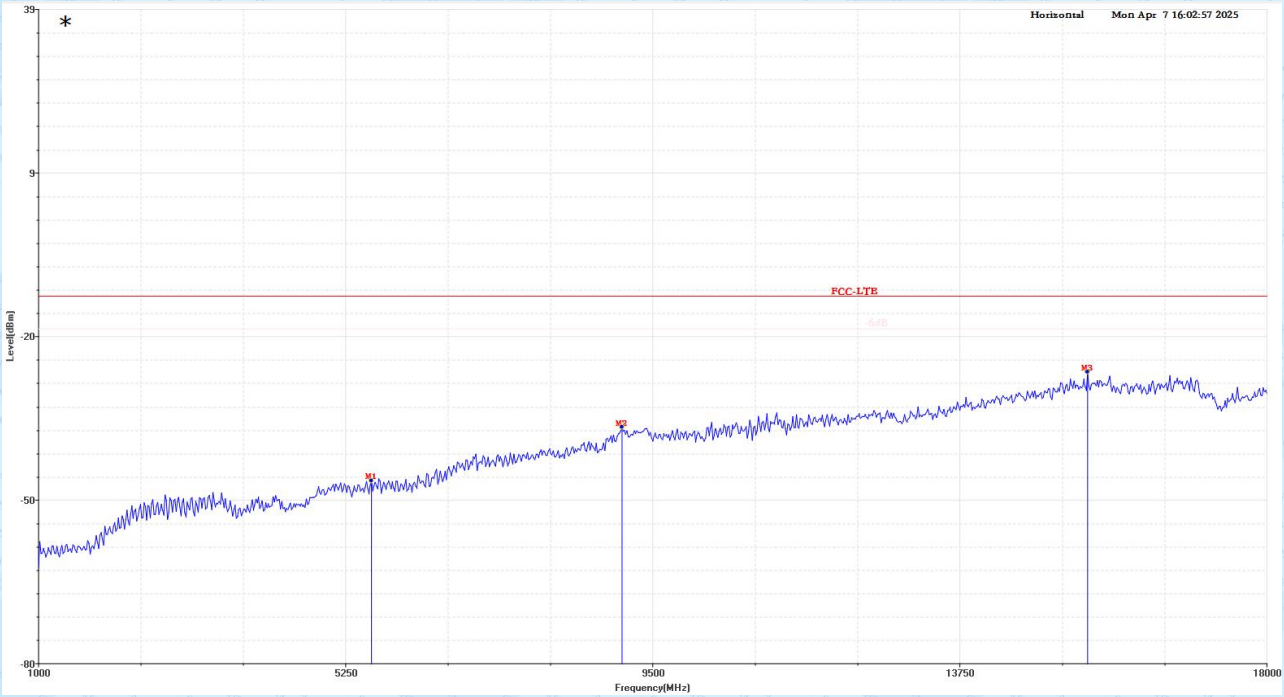
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5233.00	-56.92	9.55	-47.37	-13.00	-34.37	0.00	Vertical
11268.00	-54.57	19.51	-35.06	-13.00	-22.06	0.00	Vertical
*16419.00	-51.22	23.32	-27.90	-13.00	-14.90	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 17_Traffic Mode_High CH_Main antenna
Test Bandwidth	10MHz

Horizontal



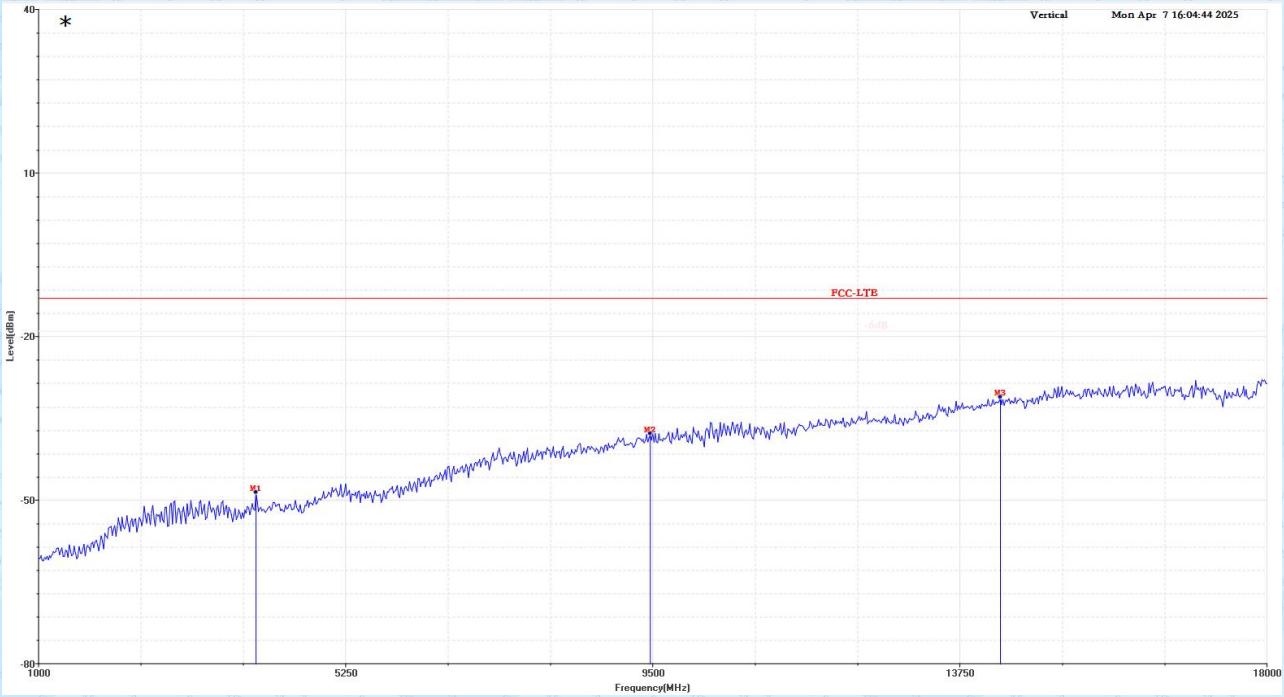
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5607.00	-56.78	9.91	-46.87	-13.00	-33.87	0.00	Horizontal
9075.00	-56.91	19.89	-37.02	-13.00	-24.02	0.00	Horizontal
*15518.00	-51.55	24.64	-26.91	-13.00	-13.91	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 17_Traffic Mode_High CH_Main antenna
Test Bandwidth	10MHz

Vertical



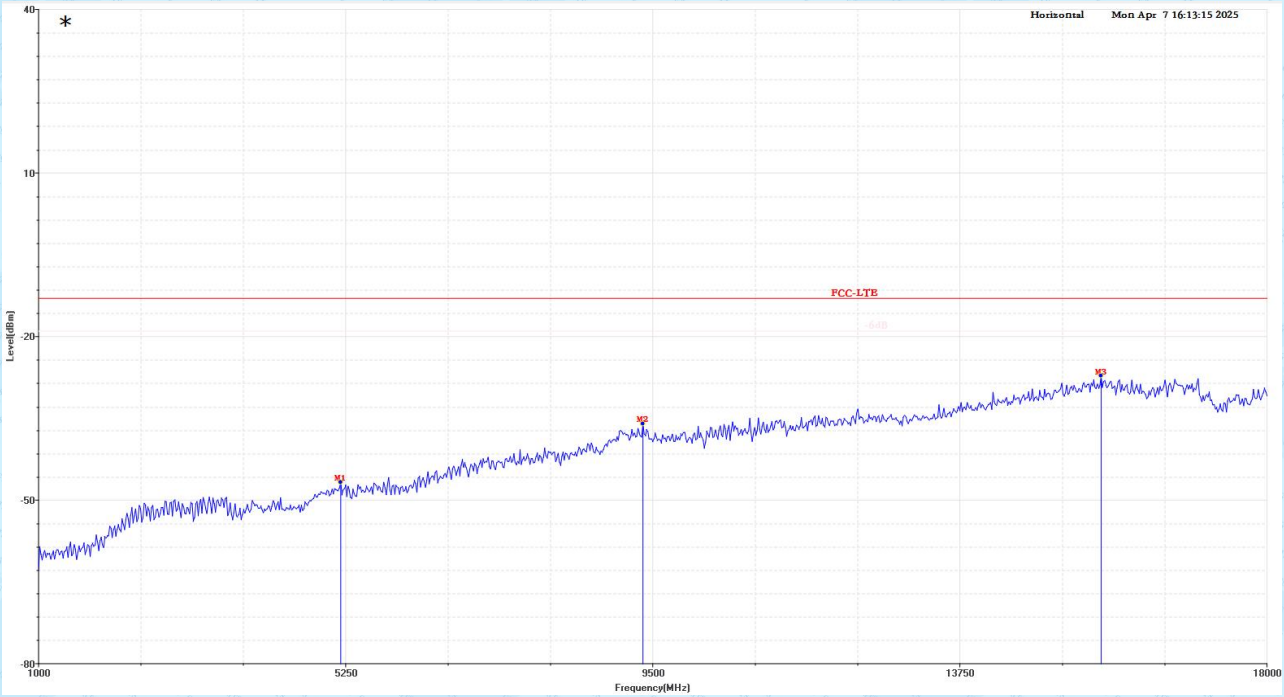
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4009.00	-56.07	7.49	-48.58	-13.00	-35.58	0.00	Vertical
9466.00	-57.29	19.49	-37.80	-13.00	-24.80	0.00	Vertical
*14311.00	-53.86	22.74	-31.12	-13.00	-18.12	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 17_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	10MHz

Horizontal



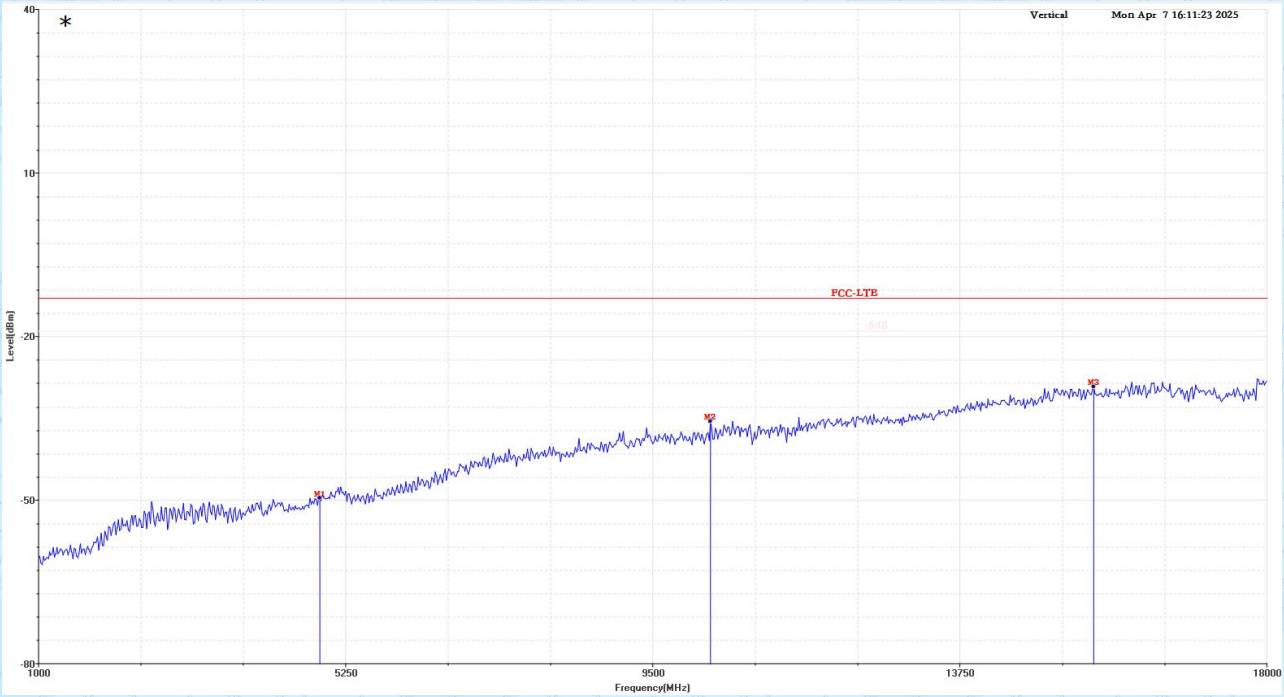
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5182.00	-56.65	9.90	-46.75	-13.00	-33.75	0.00	Horizontal
9364.00	-55.86	19.84	-36.02	-13.00	-23.02	0.00	Horizontal
*15705.00	-51.95	24.74	-27.21	-13.00	-14.21	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 17_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	10MHz

Vertical



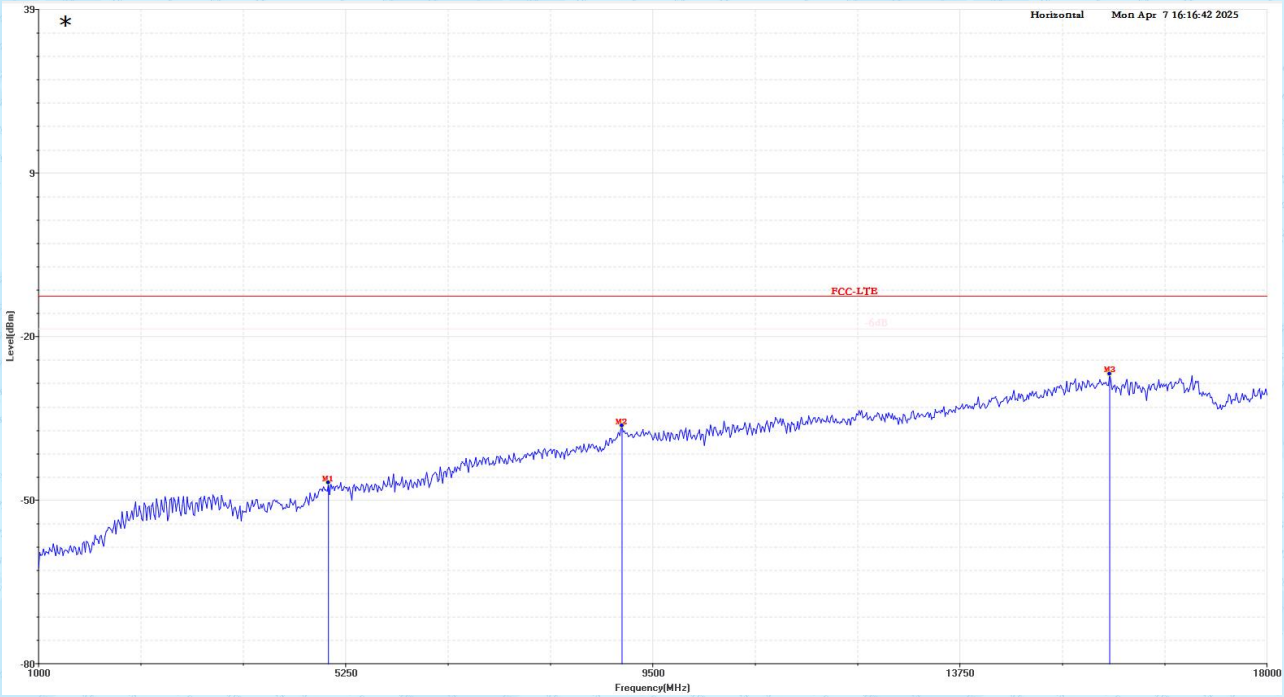
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4893.00	-58.31	8.68	-49.63	-13.00	-36.63	0.00	Vertical
10299.00	-56.13	20.55	-35.58	-13.00	-22.58	0.00	Vertical
*15603.00	-52.71	23.49	-29.22	-13.00	-16.22	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 17_Traffic Mode_Low CH_Main antenna
Test Bandwidth	10MHz

Horizontal



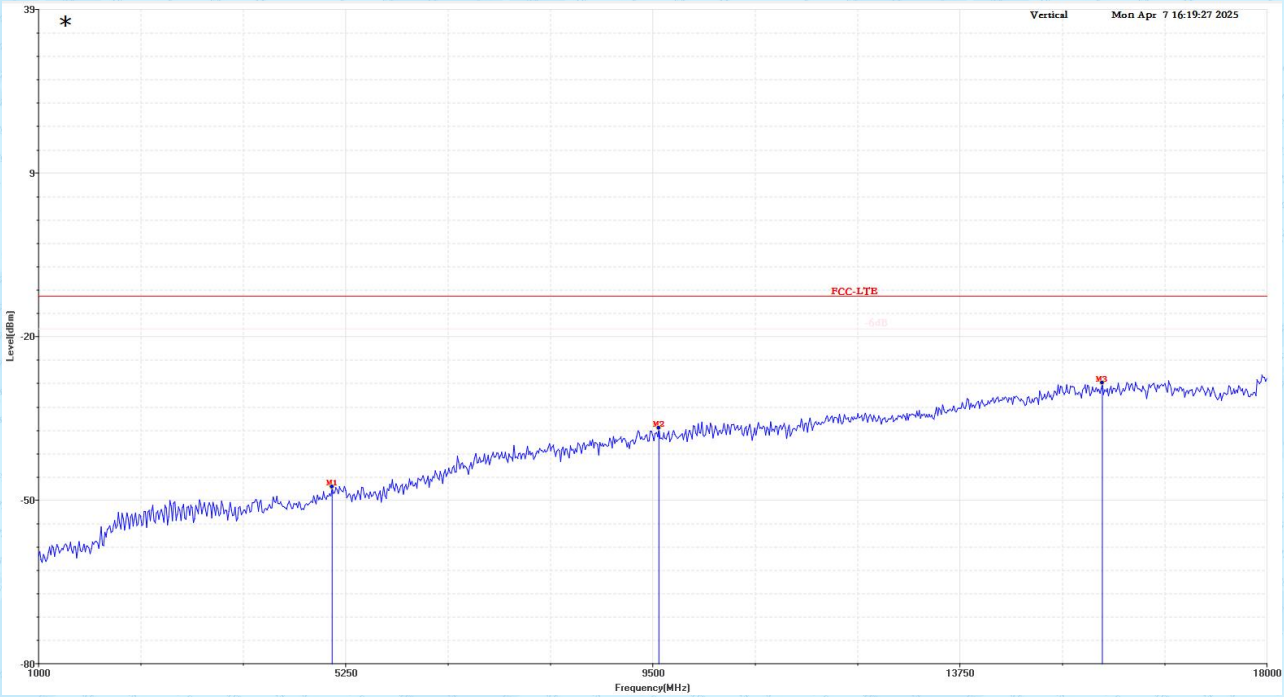
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5012.00	-57.05	9.84	-47.21	-13.00	-34.21	0.00	Horizontal
9075.00	-56.65	19.89	-36.76	-13.00	-23.76	0.00	Horizontal
*15824.00	-52.02	24.74	-27.28	-13.00	-14.28	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 17_Traffic Mode_Low CH_Main antenna
Test Bandwidth	10MHz

Vertical



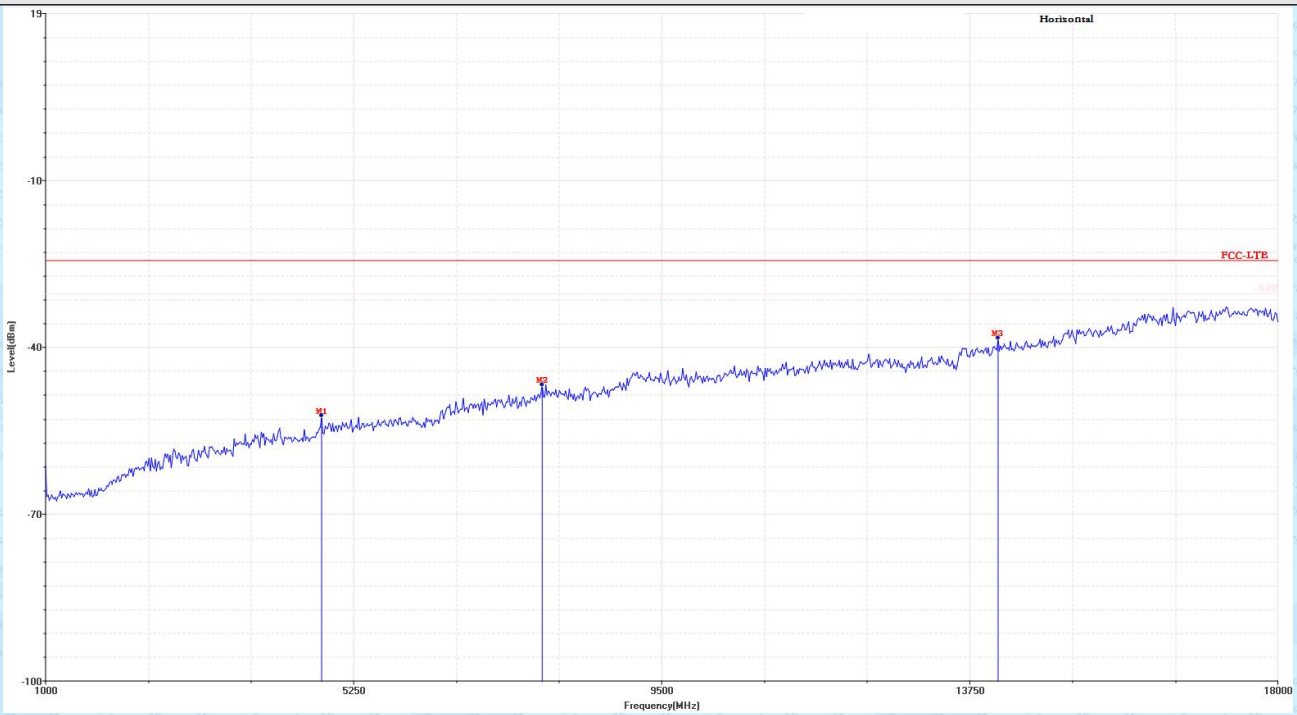
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5063.00	-57.18	9.20	-47.98	-13.00	-34.98	0.00	Vertical
9585.00	-56.68	19.49	-37.19	-13.00	-24.19	0.00	Vertical
*15722.00	-52.16	23.25	-28.91	-13.00	-15.91	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 41_Traffic Mode_High CH_Main antenna
Test Bandwidth	20MHz

Horizontal



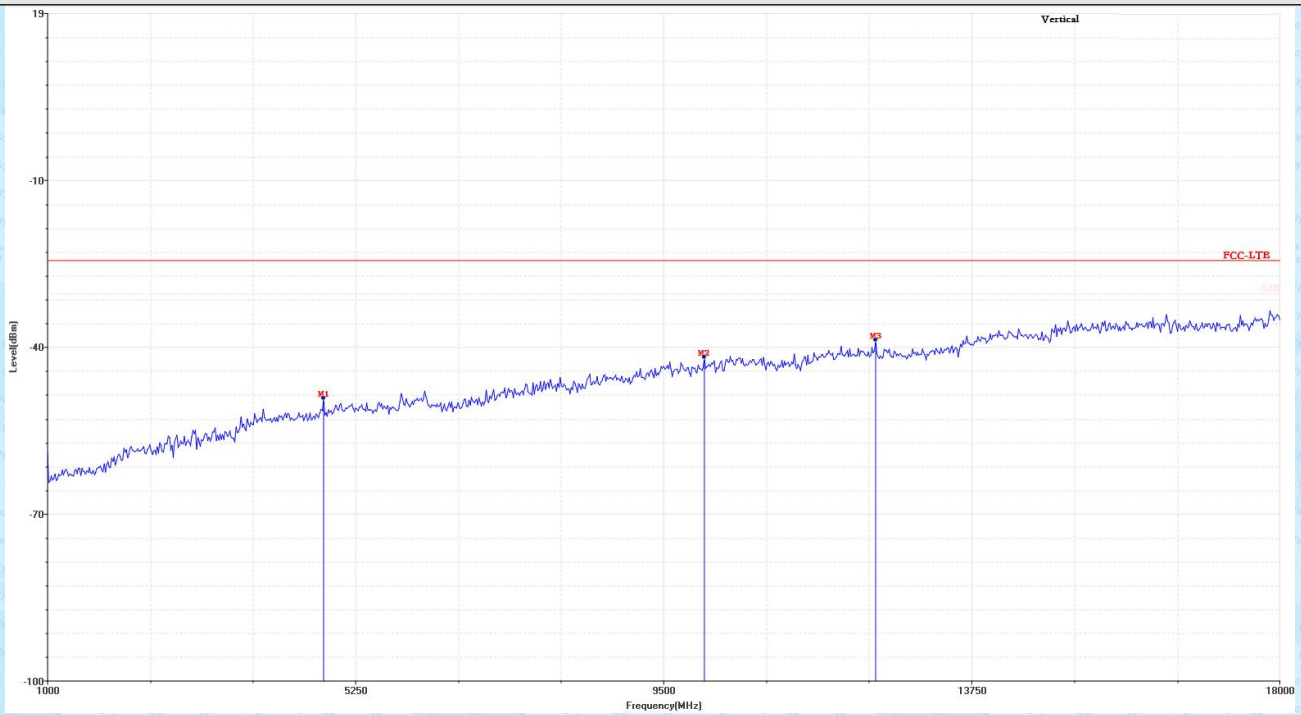
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4808.00	-52.72	-0.13	-52.85	-25.00	-27.85	0.00	Horizontal
7851.00	-54.42	7.10	-47.32	-25.00	-22.32	0.00	Horizontal
*14141.00	-51.32	12.39	-38.93	-25.00	-13.93	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 41_Traffic Mode_High CH_Main antenna
Test Bandwidth	20MHz

Vertical



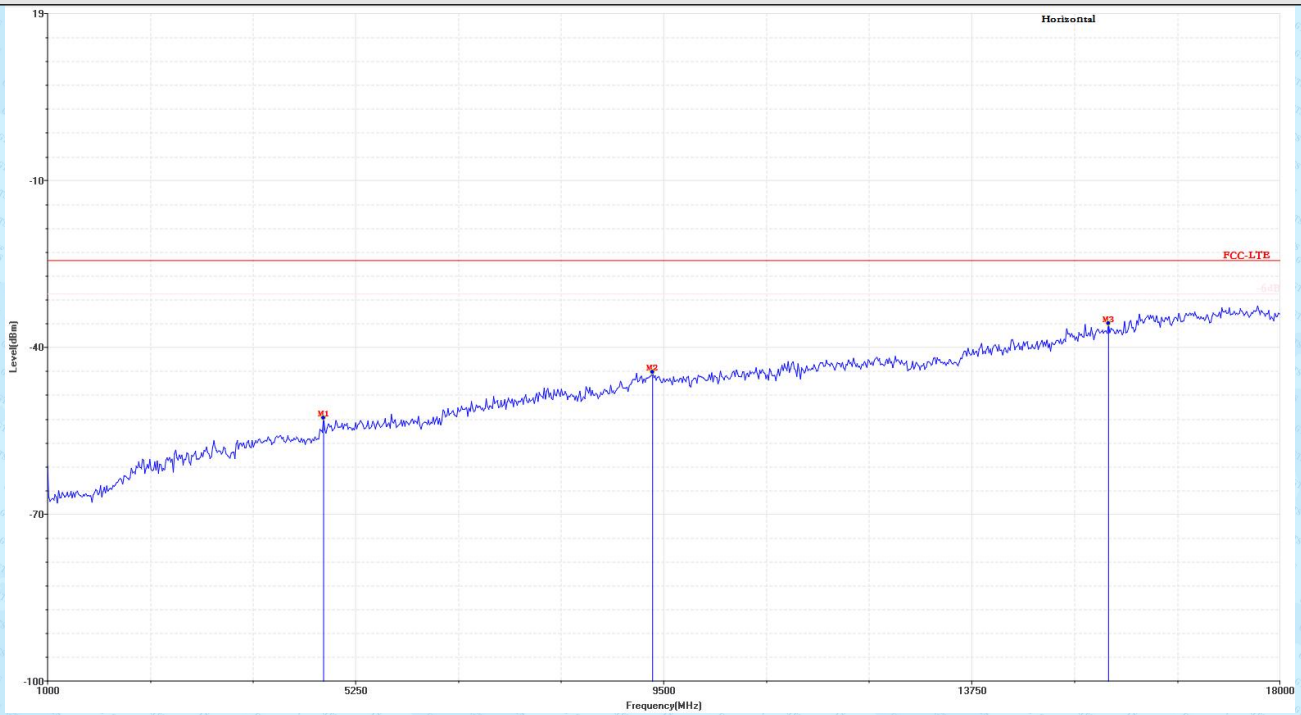
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4808.00	-52.85	3.10	-49.75	-25.00	-24.75	0.00	Vertical
10061.00	-54.33	11.97	-42.36	-25.00	-17.36	0.00	Vertical
*12424.00	-51.88	12.61	-39.27	-25.00	-14.27	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 41_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	20MHz

Horizontal



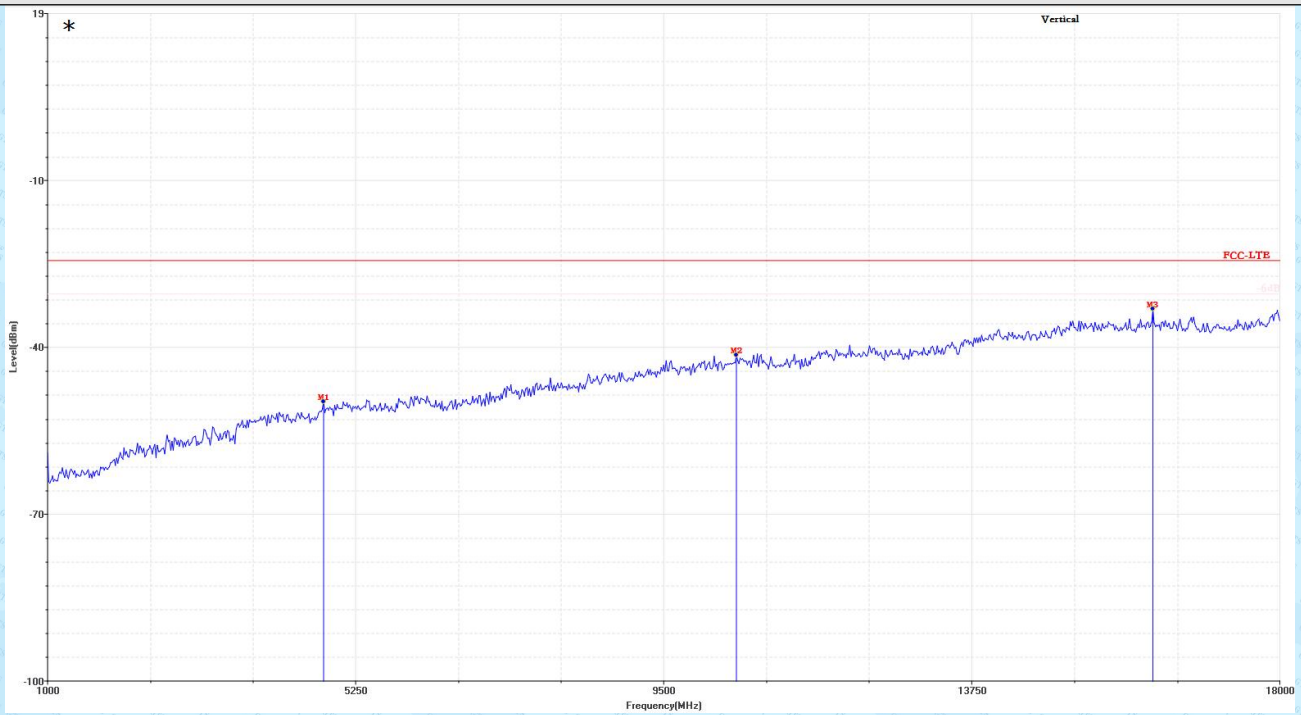
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4808.00	-53.18	-0.13	-53.31	-25.00	-28.31	0.00	Horizontal
9347.00	-54.91	9.84	-45.07	-25.00	-20.07	0.00	Horizontal
*15637.00	-50.95	14.64	-36.31	-25.00	-11.31	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 41_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	20MHz

Vertical



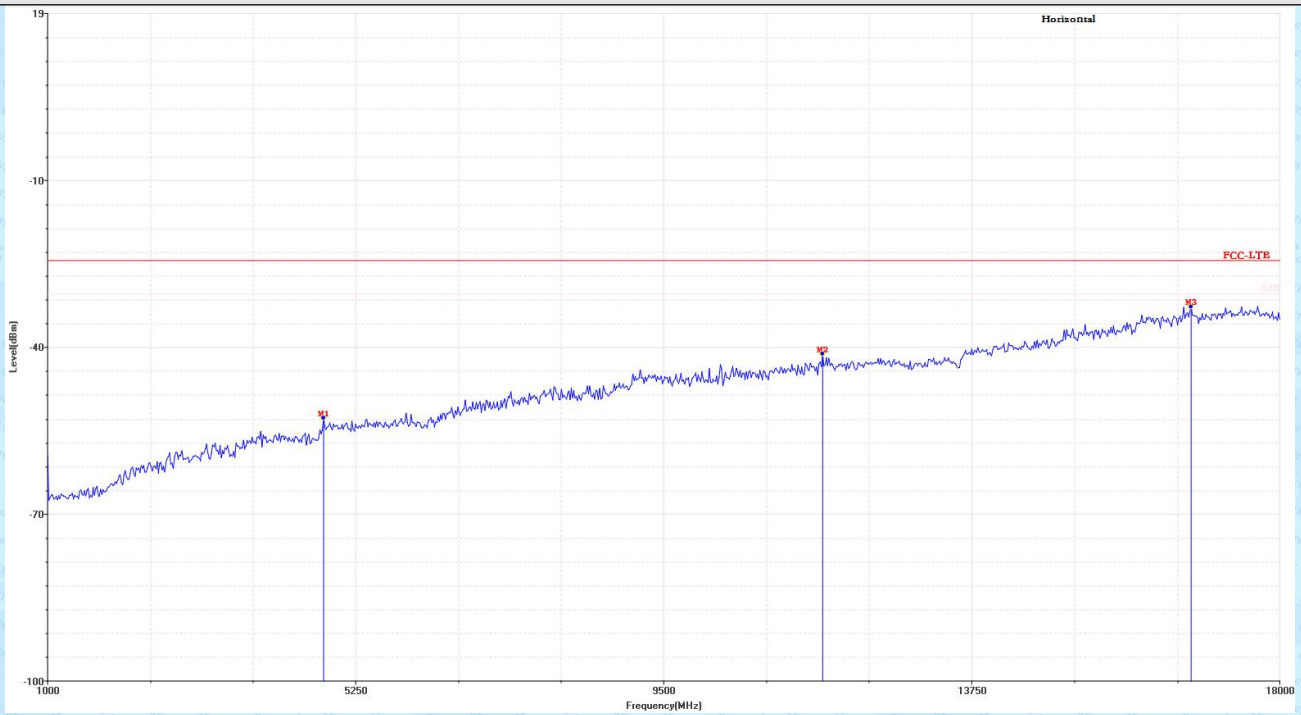
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4808.00	-53.48	3.10	-50.38	-25.00	-25.38	0.00	Vertical
10503.00	-54.74	12.73	-42.01	-25.00	-17.01	0.00	Vertical
*16249.00	-49.23	15.53	-33.70	-25.00	-8.70	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 41_Traffic Mode_Low CH_Main antenna
Test Bandwidth	20MHz

Horizontal



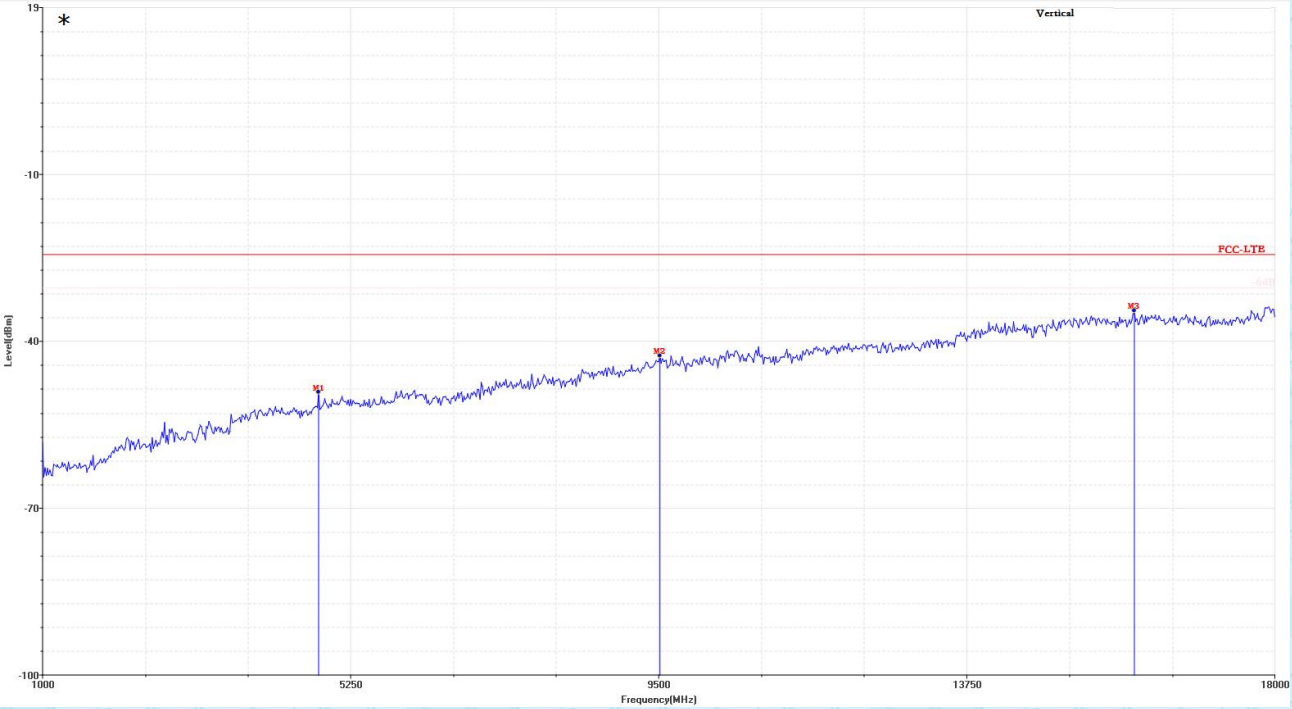
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4808.00	-53.19	-0.13	-53.32	-25.00	-28.32	0.00	Horizontal
11693.00	-52.57	10.79	-41.78	-25.00	-16.78	0.00	Horizontal
*16776.00	-50.21	16.88	-33.33	-25.00	-8.33	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 41_Traffic Mode_Low CH_Main antenna
Test Bandwidth	20MHz

Vertical



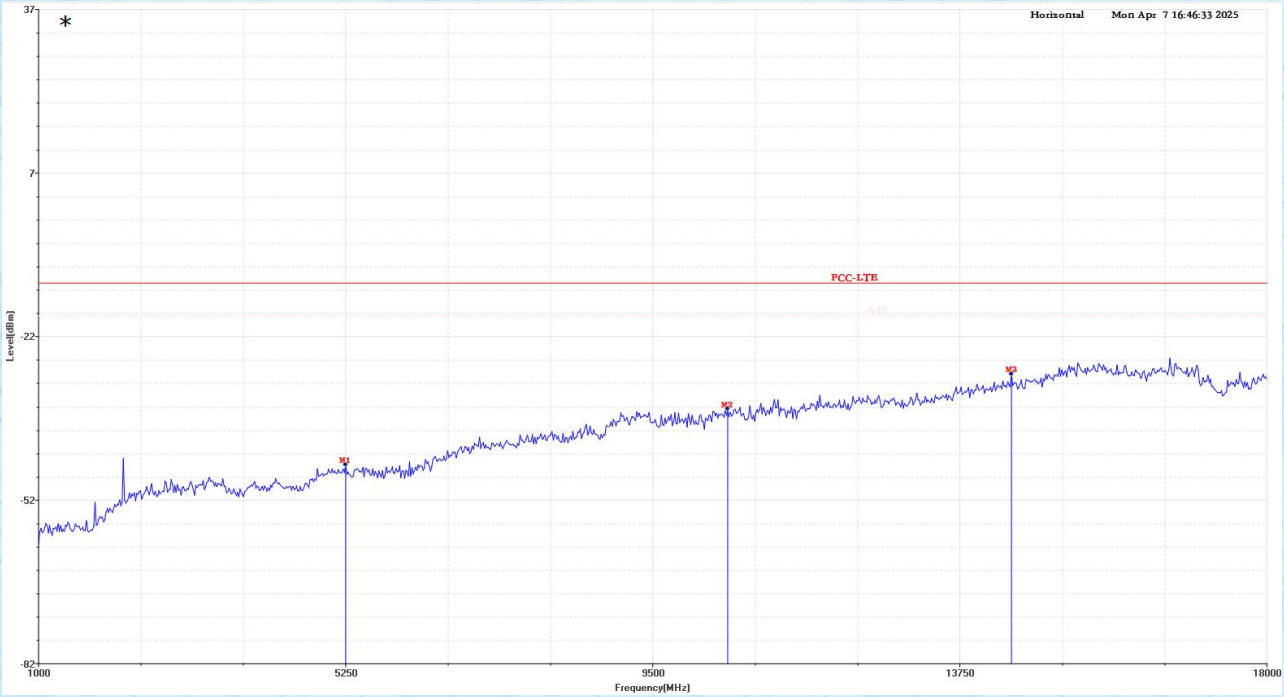
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4808.00	-52.83	3.10	-49.73	-25.00	-24.73	0.00	Vertical
9517.00	-54.69	11.49	-43.20	-25.00	-18.20	0.00	Vertical
*16062.00	-50.62	15.53	-35.09	-25.00	-10.09	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 66_Traffic Mode_High CH_Main antenna
Test Bandwidth	20MHz

Horizontal



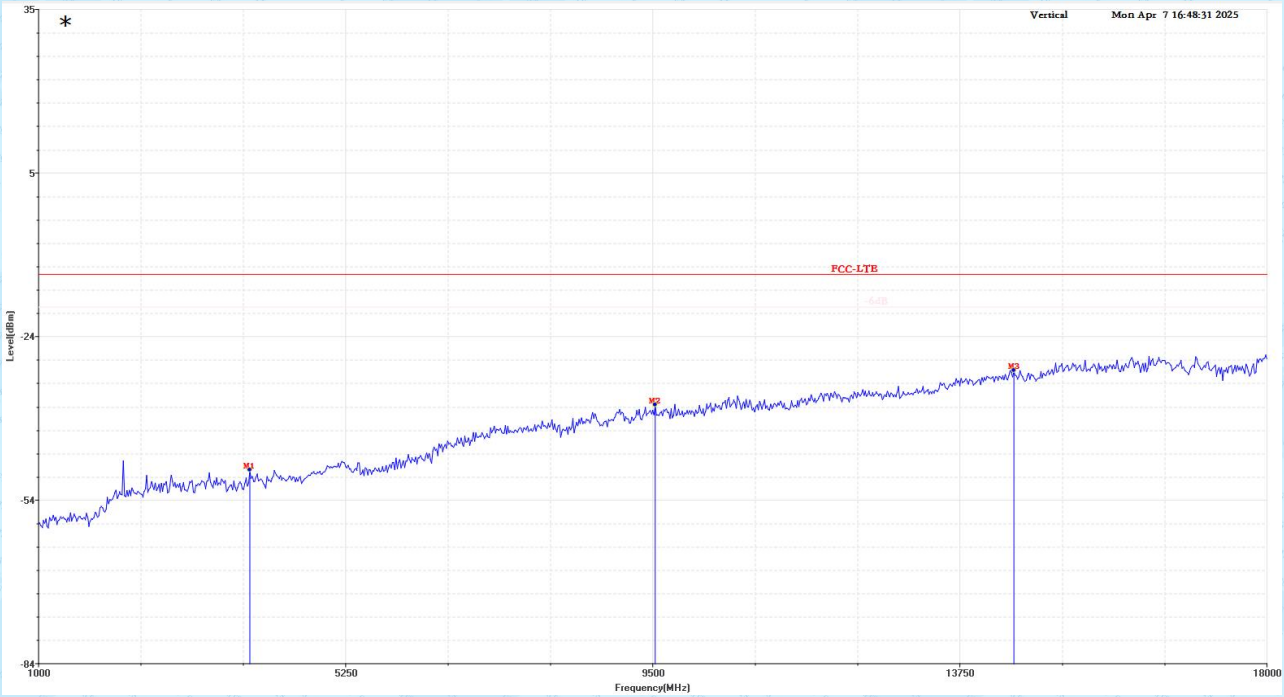
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5250.00	-56.26	9.95	-46.31	-13.00	-33.31	0.00	Horizontal
10537.00	-56.59	20.53	-36.06	-13.00	-23.06	0.00	Horizontal
*14464.00	-52.49	22.81	-29.68	-13.00	-16.68	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 66_Traffic Mode_High CH_Main antenna
Test Bandwidth	20MHz

Vertical



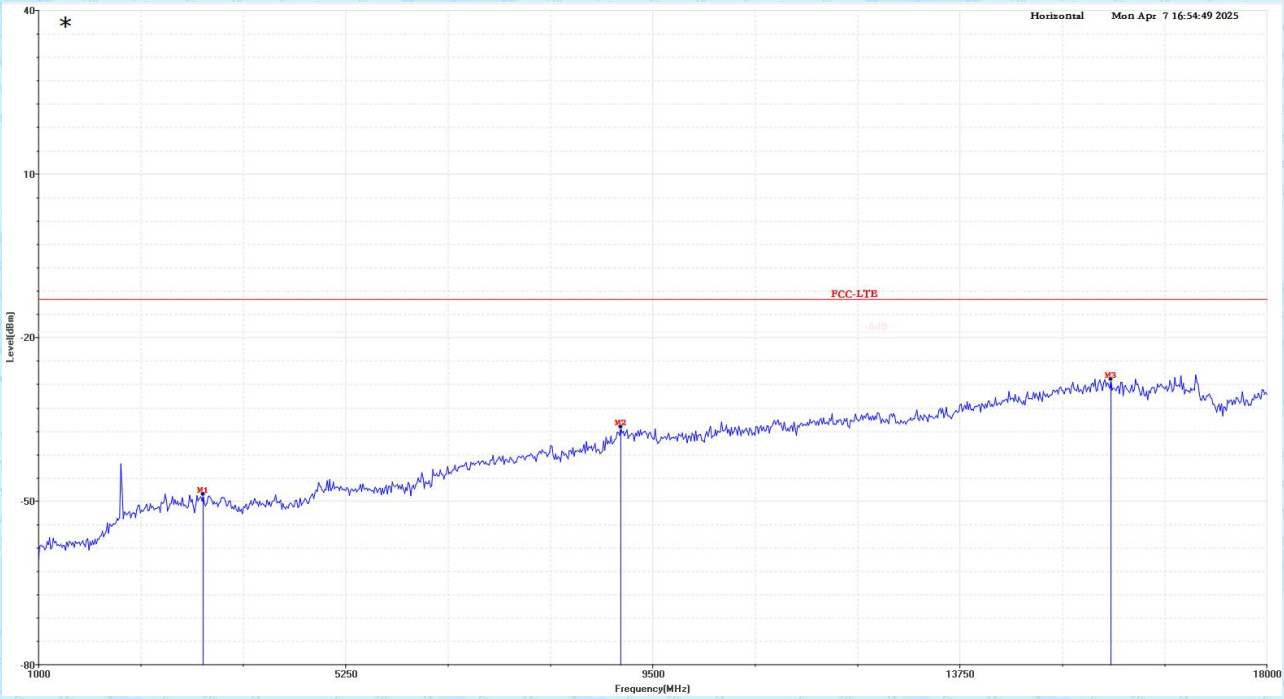
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
3924.00	-56.56	7.70	-48.86	-13.00	-35.86	0.00	Vertical
9534.00	-56.41	19.49	-36.92	-13.00	-23.92	0.00	Vertical
*14498.00	-53.21	22.60	-30.61	-13.00	-17.61	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 66_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	20MHz

Horizontal



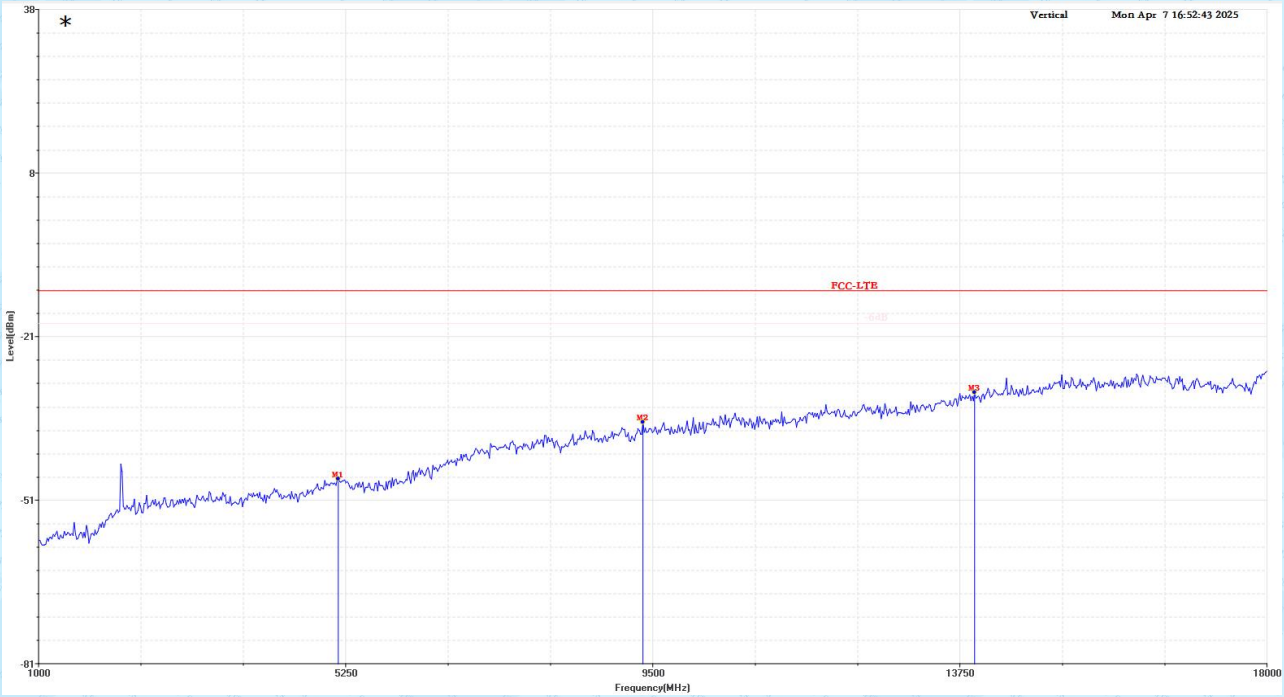
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
3278.00	-55.29	6.54	-48.75	-13.00	-35.75	0.00	Horizontal
9058.00	-56.29	19.89	-36.40	-13.00	-23.40	0.00	Horizontal
*15841.00	-52.39	24.74	-27.65	-13.00	-14.65	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 66_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	20MHz

Vertical



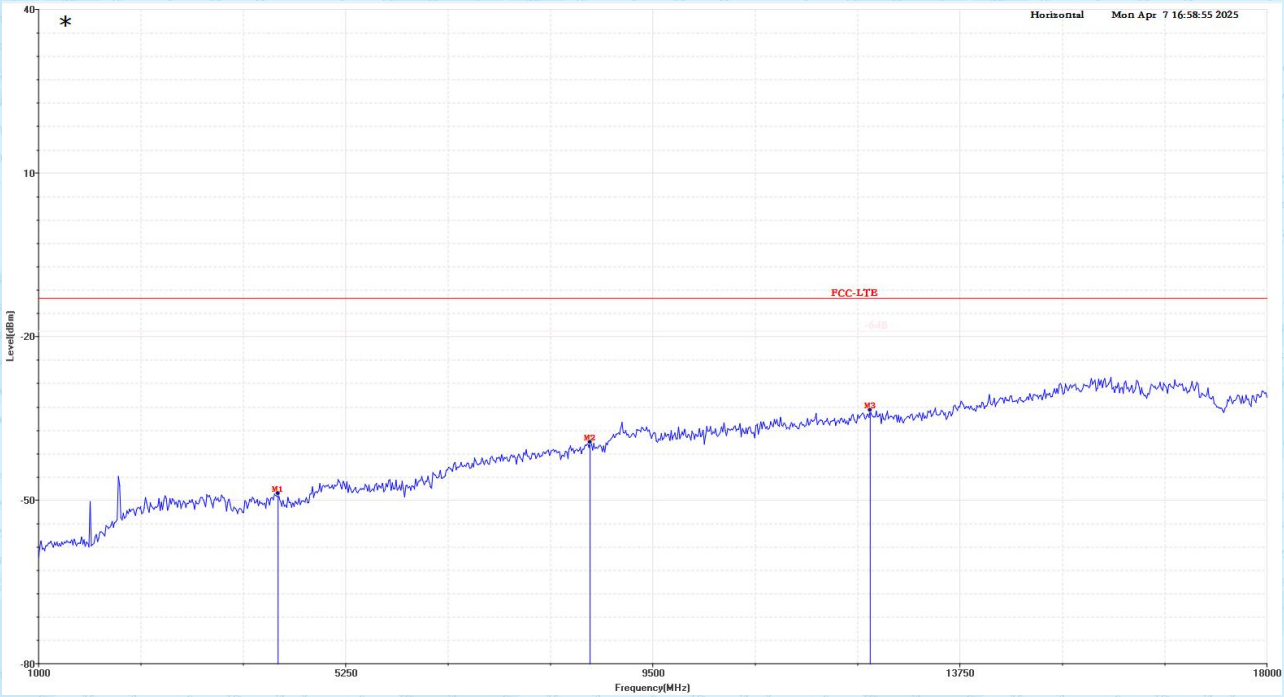
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5148.00	-57.07	9.55	-47.52	-13.00	-34.52	0.00	Vertical
9364.00	-55.90	18.78	-37.12	-13.00	-24.12	0.00	Vertical
*13954.00	-53.62	21.96	-31.66	-13.00	-18.66	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 66_Traffic Mode_Low CH_Main antenna
Test Bandwidth	20MHz

Horizontal



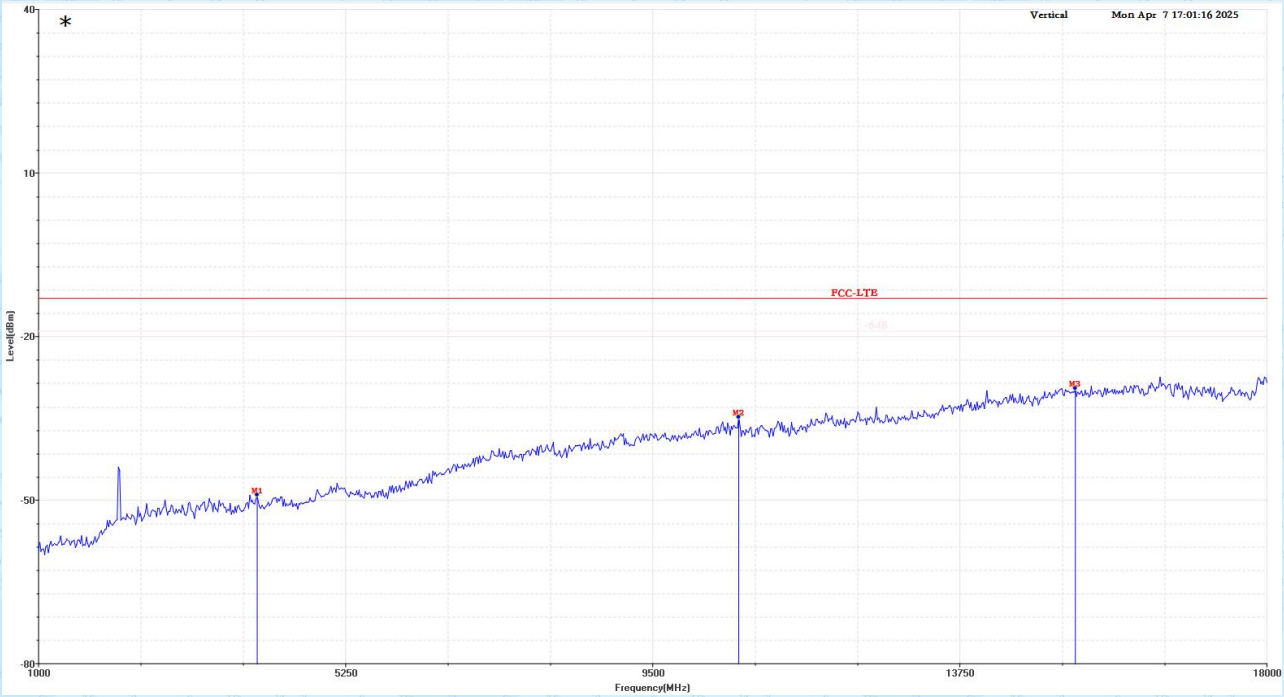
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4315.00	-56.74	7.96	-48.78	-13.00	-35.78	0.00	Horizontal
8633.00	-56.28	16.90	-39.38	-13.00	-26.38	0.00	Horizontal
*12509.00	-54.47	20.96	-33.51	-13.00	-20.51	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 66_Traffic Mode_Low CH_Main antenna
Test Bandwidth	20MHz

Vertical



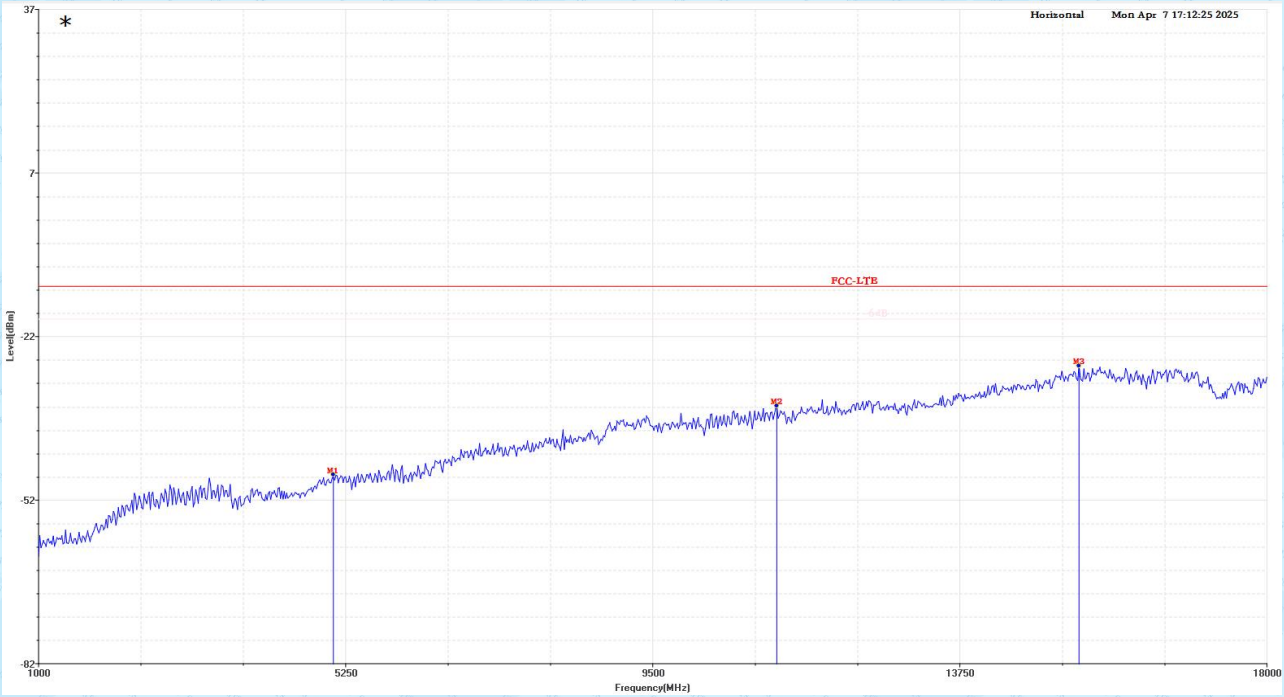
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
4026.00	-56.54	7.49	-49.05	-13.00	-36.05	0.00	Vertical
10690.00	-55.53	20.75	-34.78	-13.00	-21.78	0.00	Vertical
*15348.00	-53.15	23.65	-29.50	-13.00	-16.50	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 71_Traffic Mode_High CH_Main antenna
Test Bandwidth	20MHz

Horizontal



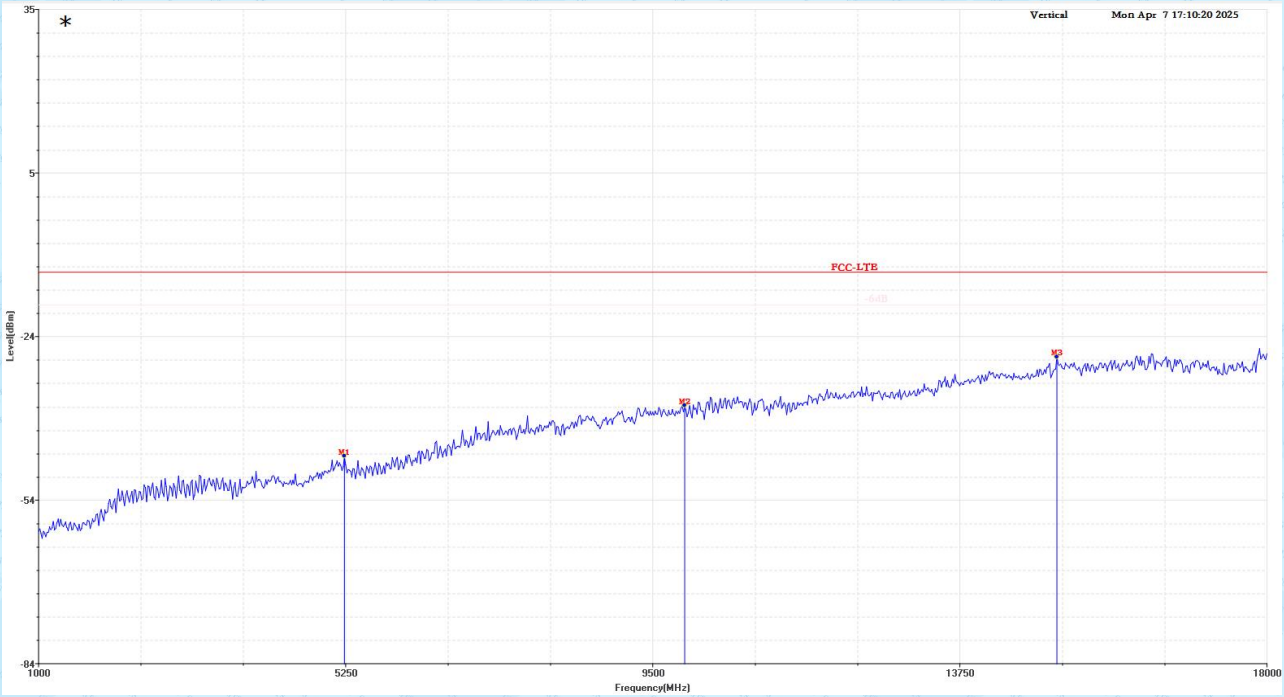
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5080.00	-57.38	9.84	-47.54	-13.00	-34.54	0.00	Horizontal
11217.00	-55.37	20.44	-34.93	-13.00	-21.93	0.00	Horizontal
*15399.00	-52.19	24.60	-27.59	-13.00	-14.59	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 71_Traffic Mode_High CH_Main antenna
Test Bandwidth	20MHz

Vertical



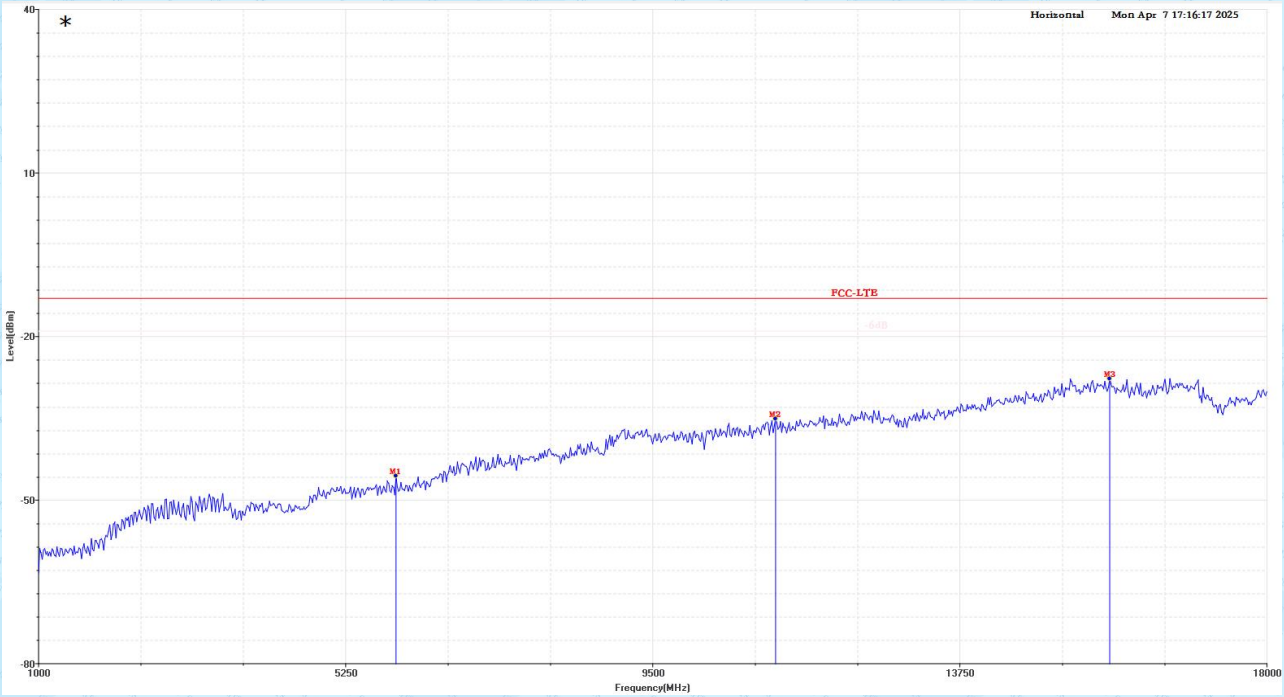
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5233.00	-56.27	9.55	-46.72	-13.00	-33.72	0.00	Vertical
9942.00	-56.80	19.36	-37.44	-13.00	-24.44	0.00	Vertical
*15093.00	-52.22	23.67	-28.55	-13.00	-15.55	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 71_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	20MHz

Horizontal



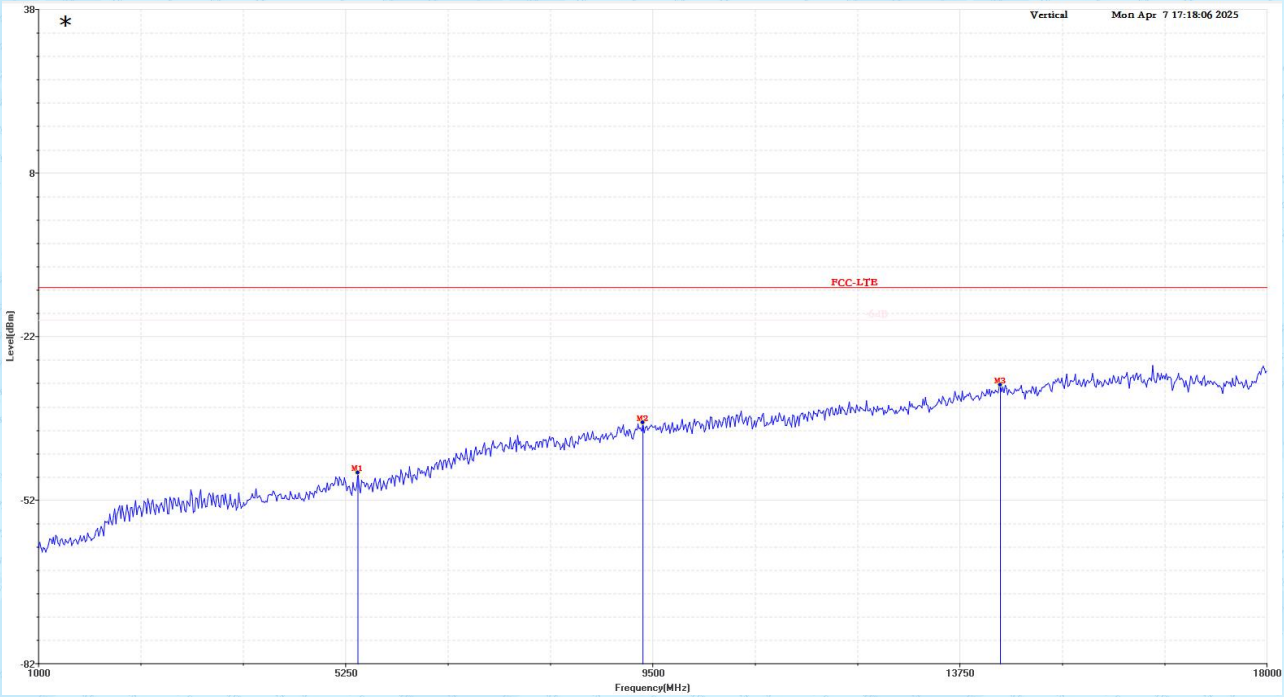
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5947.00	-56.06	10.47	-45.59	-13.00	-32.59	0.00	Horizontal
11200.00	-55.55	20.44	-35.11	-13.00	-22.11	0.00	Horizontal
*15824.00	-52.49	24.74	-27.75	-13.00	-14.75	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 71_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	20MHz

Vertical



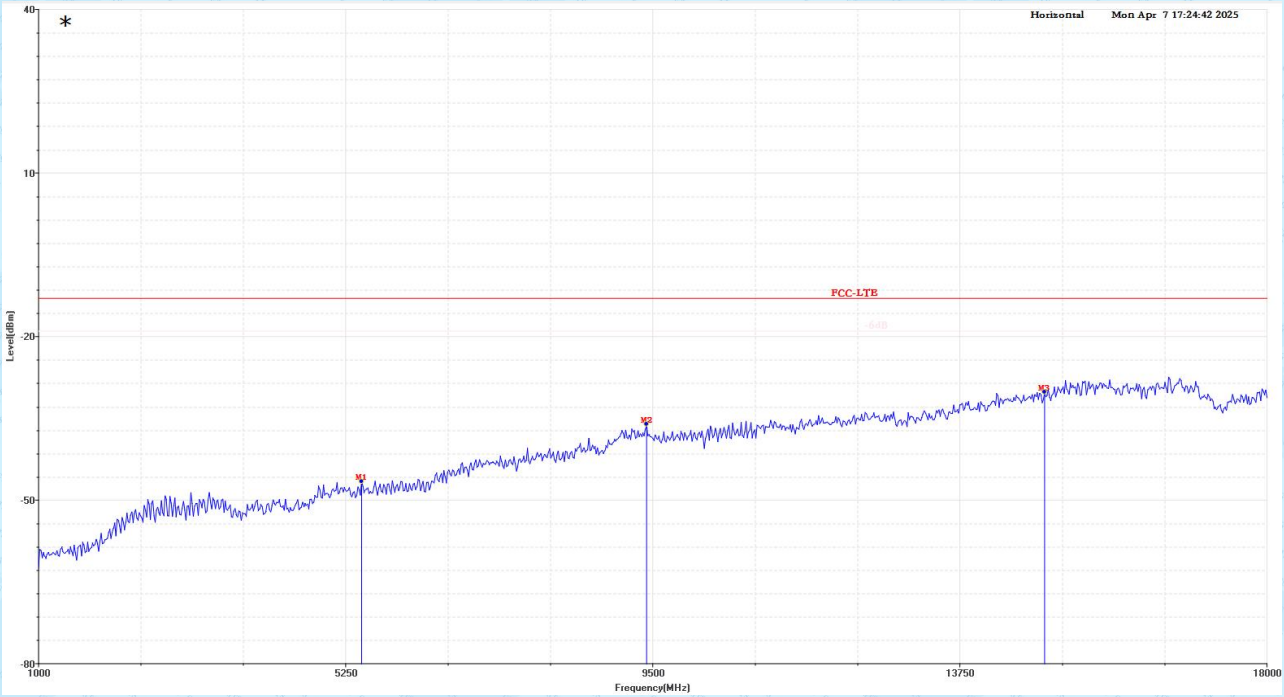
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5420.00	-56.11	9.11	-47.00	-13.00	-34.00	0.00	Vertical
9364.00	-56.58	18.78	-37.80	-13.00	-24.80	0.00	Vertical
*14311.00	-53.63	22.74	-30.89	-13.00	-17.89	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 71_Traffic Mode_Low CH_Main antenna
Test Bandwidth	20MHz

Horizontal



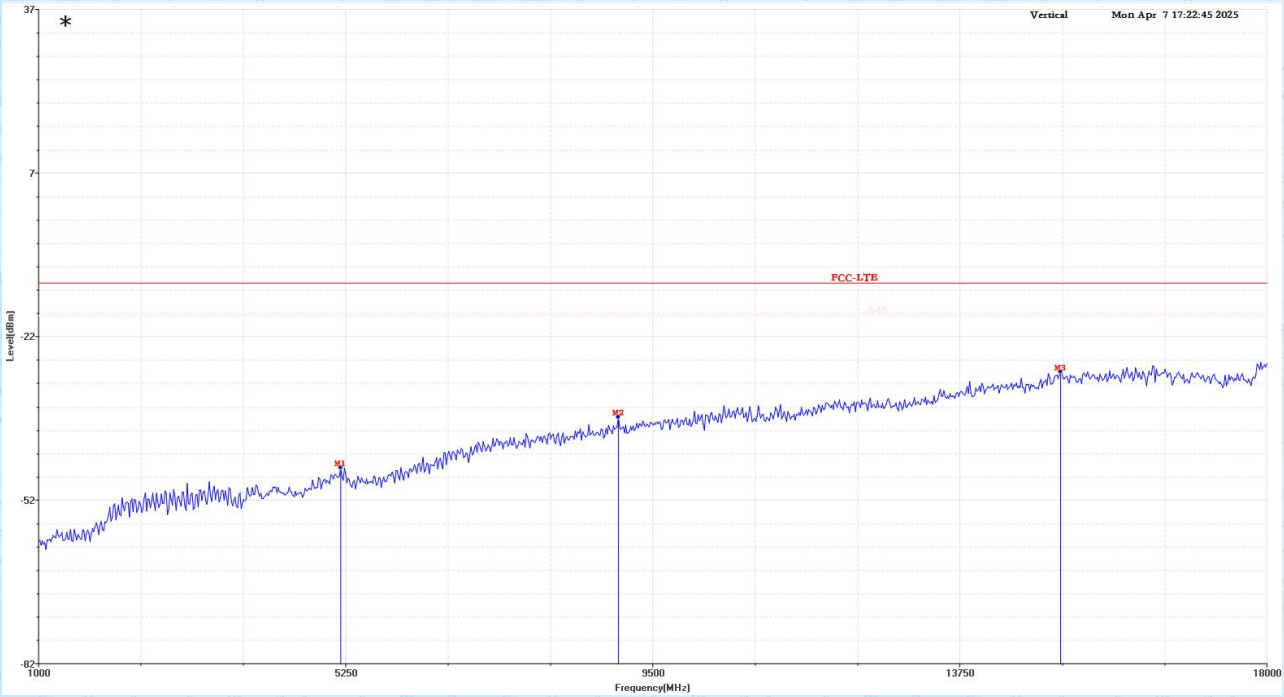
Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5471.00	-56.50	9.91	-46.59	-13.00	-33.59	0.00	Horizontal
9415.00	-55.92	19.84	-36.08	-13.00	-23.08	0.00	Horizontal
*14923.00	-53.58	23.39	-30.19	-13.00	-17.19	0.00	Horizontal

Note : The test worse case was marked with the " * " in front of frequency.

Test Mode	LTE Band 71_Traffic Mode_Low CH_Main antenna
Test Bandwidth	20MHz

Vertical



Test Summary Result

Frequency (MHz)	Read_Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Table(o)	Pol/Phase
5182.00	-56.41	9.55	-46.86	-13.00	-33.86	0.00	Vertical
9024.00	-55.44	17.84	-37.60	-13.00	-24.60	0.00	Vertical
*15144.00	-52.94	23.67	-29.27	-13.00	-16.27	0.00	Vertical

Note : The test worse case was marked with the " * " in front of frequency.

4. TEST SETUP PHOTOGRAPHS

Please refer to the Appendix F.

5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

External Please refer to the Appendix G.

Internal Please refer to the Appendix H.

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