RF TEST REPORT

Report No.: SHATBL2512015W07

Applicant	:	Shenzhen Guangqun Communication Technology Co., Ltd.
Product Name	:	Tablet
Brand Name	:	POCKAM
Model Name	:	P13 Pro
Series Model	:	P12,P13 Plus,P13+,P13 Pro+,P13 Max,P13 Ultra
FCC ID	:	2BTXRP13PRO
Test Standard	:	47 CFR Part 2;47 CFR Part 22;47 CFR Part 24; 47 CFR Part 27;
Date of Sample Arrival	:	Dec.09, 2025
Date of Test	:	Dec.10, 2025~Dec.25, 2025
Issue Date	:	Dec.26, 2025

Report Prepared by : Emily

(Emily)

Report Approved by : Guozheng Li

(Guozheng Li)

Authorized Signatory : Terry Yang

(Terry Yang)

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REVISION HISTORY

Rev.	Issue Date	Revisions	Revised by
00	Dec.26, 2025	Initial Release	

DECLARATION OF REPORT

1. The device has been tested by ATBL, and the test results show that the equipment under test (EUT) is in compliance with the requirements of FCC Require. 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 ATBL, this document only be altered or revised by ATBL, 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, ATBL 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 H1
Peak-Average Ratio	Part 2.1046, 24.232	Limit≤13 dB	Pass	Appendix H2
Occupied Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass	Appendix H3
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 H4
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 H5
Frequency Stability	Part 2.1055, 24.235	≤ ± 2.5 ppm.	Pass	Appendix H6
Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix H7
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	Part 2.1055, 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	Part 2.1051, 22.917	≤ -13 dBm/1 MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Pass	Appendix C5
Band Edges Compliance	Part 22.917	≤ -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	Part 2.1053, 22.917	≤ -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 Guangqun Communication Technology Co., Ltd.
Address	:	Room 537Z, 5th Floor, Building 522, Bagualing Industrial Zone, Futian District, Shenzhen.

1.2. Manufacturer

Name	:	Shenzhen Guangqun Communication Technology Co., Ltd.
Address	:	Room 537Z, 5th Floor, Building 522, Bagualing Industrial Zone, Futian District, Shenzhen.

1.3. Factory

Name	:	Shenzhen Guangqun Communication Technology Co., Ltd.
Address	:	Room 537Z, 5th Floor, Building 522, Bagualing Industrial Zone, Futian District, Shenzhen.

1.4. General Information of EUT

General Information	
Test Sample	202512012003
Product Name:	Tablet
Brand Name	POCKAM
Model Name	P13 Pro
Series Model	P12,P13, P13 Plus, P12+, P13 Pro+, P13 Max, P13 Ultra
Model Difference	The only differences are in model naming, color, and memory, while all other aspects remain the same.
Power supply	DC 3.85V
Adapter	Input:AC100-240V~50/60Hz 0.6A Output:5.0V⎓ 3.0A 15.0W;9.0V⎓ 2.0A 18.0W;12.0V⎓ 1.5A 18.0W
Battery	DC 3.85V 12000mAh
Hardware Version	L30-T620-V1.0
Software Version	P13 Pro-EEA-Android-16.0-20251209
SIM Card Description:	The prototype supports dual cards
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 25	1850 MHz ~ 1915 MHz	1930 MHz ~ 1995 MHz
☑ Band 26	824 MHz ~ 849 MHz	869 MHz ~ 894 MHz
☑ Band 66	1710 MHz ~ 1780 MHz	2110 MHz~ 2200 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 25	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz	
☑ Band 26	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz	
☑ Band 66	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz	
Antenna Gain		
Band	**Antenna Gain**	
☑ Band 2	0.42dBi	
☑ Band 4	0.75dBi	
☑ Band 5	-2.39dBi	
☑ Band 25	0.42dBi	
☑ Band 26	-2.39dBi	
☑ Band 66	0.75dBi	
Maximum Output Power to Antenna		
Band	**Maximum Conducted Output Power**	
☑ Band 2	22.16dBm	
☑ Band 4	23.57dBm	
☑ Band 5	24.17dBm	
☑ Band 25	22.46dBm	
☑ Band 26	24.55dBm	
☑ Band 66	23.42dBm	
Type of Modulation		
☑ QPSK ☑ 16QAM ☐ 64QAM ☐ 256QAM		

1.6. Maximum Conducted Power and Emission Designator

☑ LTE Band 2				
Bandwidth (MHz)	☑ QPSK		☑ 16QAM	
	Maximum Conducted Power (dBm)	Emission Designator (99% OBW)	Maximum Conducted Power (dBm)	Emission Designator (99% OBW)
1.4	22.14	1M08G7D	21.35	1M08W7D
3	22.16	2M69G7D	21.22	2M69W7D
5	22.05	4M49G7D	21.26	4M47W7D
10	22.06	8M94G7D	21.76	8M94W7D
15	22.08	13M4G7D	21.83	13M5W7D
20	21.88	17M9G7D	21.44	18M0W7D

☑ LTE Band 4				
Bandwidth (MHz)	☑ QPSK		☑ 16QAM	
	Maximum Conducted Power (dBm)	Emission Designator (99% OBW)	Maximum Conducted Power (dBm)	Emission Designator (99% OBW)
1.4	23.36	1M18G7D	23.20	1M08W7D
3	23.34	2M72G7D	23.45	2M68W7D
5	23.44	4M59G7D	22.76	4M49W7D
10	23.21	9M15G7D	23.07	8M94W7D
15	23.28	13M6G7D	22.91	13M4W7D
20	23.32	17M9G7D	23.57	18M0W7D

☑ LTE Band 5				
Bandwidth (MHz)	☑ QPSK		☑ 16QAM	
	Maximum Conducted Power (dBm)	Emission Designator (99% OBW)	Maximum Conducted Power (dBm)	Emission Designator (99% OBW)
1.4	23.91	1M08G7D	24.17	1M08W7D
3	23.86	2M73G7D	23.90	2M68W7D
5	24.07	4M56G7D	23.06	4M47W7D
10	23.85	8M97G7D	23.61	8M97W7D

☑ LTE Band 25				
Bandwidth (MHz)	☑ QPSK		☑ 16QAM	
	Maximum Conducted Power (dBm)	Emission Designator (99% OBW)	Maximum Conducted Power (dBm)	Emission Designator (99% OBW)
1.4	21.67	1M08G7D	20.63	1M08W7D
3	22.35	2M69G7D	21.08	2M68W7D
5	22.46	4M47G7D	21.41	4M49W7D
10	21.96	8M94G7D	21.38	8M94W7D
15	22.28	13M4G7D	21.99	13M4W7D
20	22.23	17M9G7D	21.64	18M0W7D

☑ LTE Band 26				
Bandwidth (MHz)	☑ QPSK		☑ 16QAM	
	Maximum Conducted Power (dBm)	Emission Designator (99% OBW)	Maximum Conducted Power (dBm)	Emission Designator (99% OBW)
1.4	23.81	1M08G7D	24.50	1M08W7D
3	23.74	2M69G7D	24.55	2M68W7D
5	23.91	4M49G7D	23.86	4M49W7D
10	23.81	8M94G7D	24.11	8M94W7D
15	23.81	13M5G7D	23.96	13M4W7D

☑ LTE Band 66				
Bandwidth (MHz)	☑ QPSK		☑ 16QAM	
	Maximum Conducted Power (dBm)	Emission Designator (99% OBW)	Maximum Conducted Power (dBm)	Emission Designator (99% OBW)
1.4	23.18	1M08G7D	22.49	1M07W7D
3	23.12	2M69G7D	22.67	2M68W7D
5	23.42	4M49G7D	22.21	4M47W7D
10	23.15	8M94G7D	23.12	8M97W7D
15	23.26	13M4G7D	23.06	13M4W7D
20	23.42	17M9G7D	23.00	17M9W7D

1.7. Modification of EUT

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

1.8. Laboratory Information

Company Name	:	Shanghai ATBL Technology Co., Ltd.
Address	:	Building 8,No.160 Basheng Road, Waigaoqiao Free Trade Zone, Pudong New Area, Shanghai
Telephone	:	+86(0)21-51298625
FCC-Registration Number	:	485917
Designation Number	:	CN1306
A2LA-Lab Cert. No.	:	6184.01
ISED Designation Number	:	CNAS L14531

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.

2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

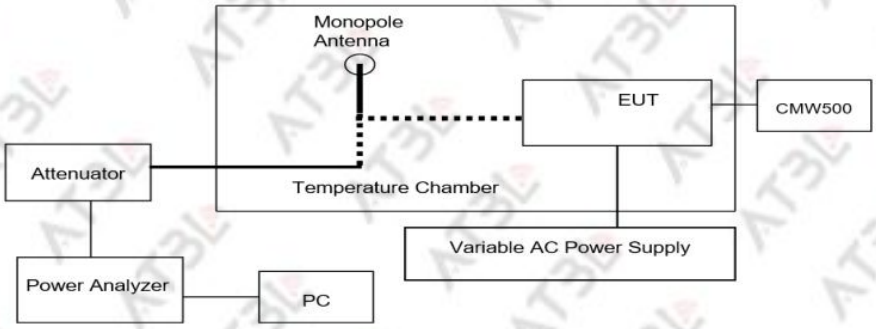
2.1. Test Mode

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	√	√	√				√	√			√		√	√	√	√
	25	√	√	√	√	√	√	√	√			√		√	√	√	√
	26	√	√	√	√	√		√	√			√		√	√	√	√
	66	√	√	√	√	√	√	√	√			√		√	√	√	√
Peak-to-Average Ratio	2	√	√	√	√	√	√	√	√			√		√	√	√	√
	4	√	√	√	√	√	√	√	√			√		√	√	√	√
	5	√	√	√				√	√			√		√	√	√	√
	25	√	√	√	√	√	√	√	√			√		√	√	√	√
	26	√	√	√	√	√		√	√			√		√	√	√	√
	66	√	√	√	√	√	√	√	√			√		√	√	√	√
26dB and 99% Bandwidth	2	√	√	√	√	√	√	√	√			√		√	√	√	√
	4	√	√	√	√	√	√	√	√			√		√	√	√	√
	5	√	√	√				√	√			√		√	√	√	√
	25	√	√	√	√	√	√	√	√			√		√	√	√	√
	26	√	√	√	√	√		√	√			√		√	√	√	√
	66	√	√	√	√	√	√	√	√			√		√	√	√	√
Conducted Band Edge	2	√	√	√	√	√	√	√	√			√		√	√		√
	4	√	√	√	√	√	√	√	√			√		√	√		√
	5	√	√	√				√	√			√		√	√		√
	25	√	√	√	√	√	√	√	√			√		√	√		√
	26	√	√	√	√	√		√	√			√		√	√		√
	66	√	√	√	√	√	√	√	√			√		√	√		√
Conducted Spurious Emission	2	√	√	√	√	√	√	√	√			√		√	√	√	√
	4	√	√	√	√	√	√	√	√			√		√	√	√	√
	5	√	√	√				√	√			√		√	√	√	√
	25	√	√	√	√	√	√	√	√			√		√	√	√	√
	26	√	√	√	√	√		√	√			√		√	√	√	√
	66	√	√	√	√	√	√	√	√			√		√	√	√	√
Frequency Stability	2	√	√	√	√	√	√	√	√			√		√	√	√	√
	4	√	√	√	√	√	√	√	√			√		√	√	√	√
	5	√	√	√				√	√			√		√	√	√	√
	25	√	√	√	√	√	√	√	√			√		√	√	√	√
	26	√	√	√	√	√		√	√			√		√	√	√	√
	66	√	√	√	√	√	√	√	√			√		√	√	√	√
E.R.P / E.I.R.P	2	√	√	√	√	√	√	√	√			√		√	√	√	√
	4	√	√	√	√	√	√	√	√			√		√	√	√	√
	5	√	√	√				√	√			√		√	√	√	√
	25	√	√	√	√	√	√	√	√			√		√	√	√	√
	26	√	√	√	√	√		√	√			√		√	√	√	√
	66	√	√	√	√	√	√	√	√			√		√	√	√	√
Radiated Spurious Emission	2	Worst Case													√	√	√
	4	Worst Case													√	√	√
	5	Worst Case													√	√	√
	25	Worst Case													√	√	√
	26	Worst Case													√	√	√
	66	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



Remarks:
The Signal Analyzer could be connected to a Monopole antenna or directly connected to the EUT, if the EUT has already employing an antenna connector.

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

LTE Band 2 Channel and Frequency List				
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

LTE Band 4 Channel and Frequency List				
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

LTE Band 5 Channel and Frequency List				
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

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3

LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829	836.5	844
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

LTE Band 66 Channel and Frequency List				
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

2.5. Equipment List

2.5.1. For Conducted Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	Calibrated due until	Cal. Interval
Power sensor-Card reader	Cesheng	smu 1003	16l00054SN016	2025.03.19	2026.03.18	1 year
Adjustable Attenuator	Agilent	8494B	MY42144015	2025.07.28	2026.07.27	1 year
Adjustable Attenuator	Agilent	8496B	MY42143776	2025.07.28	2026.07.27	1 year
Environmental Test Chamber	KSON	THS-B6C-150	9159K	2025.03.17	2026.03.16	1 year
Signal analyzer	Keysight	N9020A	MY50510136	2025.07.18	2026.07.17	1 year
Vector signal generator	Agilent	N5182A	MY48180764	2025.07.18	2026.07.17	1 year
Analog signal generator	Keysight	N5182B	MY57300196	2025.07.18	2026.07.17	1 year
Wideband radio communication tester	R&S	CMW500	101331	2025.07.28	2026.07.27	1 year
Switch Box	Cesheng	smu 1003	WCS20221215	2025.03.19	2026.03.18	1 year
Thermometer	DeLi	N/A	N/A	2025.08.01	2026.07.31	1 year
Test Software	Cesheng	WCS-WCN	N/A	N/A	N/A	N/A

2.5.2. For Radiated Spurious Emission

Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	Calibrated due until	Cal. Interval
Signal analyzer	Agilent	N9020A	MY50200811	2025.03.17	2026.03.16	1 year
Amplifier	JPT	JPA0118-55-303A	1910001800055000	2025.03.24	2026.03.23	1 year
Amplifier	JPT	JPA-10M1G32	21010100035001	2025.03.17	2026.03.16	1 year
Antenna/Turn table Controller	Brilliant	N/A	N/A	N/A	N/A	N/A
Loop Antenna(9kHz-30MHz)	Daze	ZN30900C	20077	2025.05.13	2026.05.12	1 year
Bilog Antenna	SCHWARZBECK	VULB 9168	01174	2025.05.20	2026.05.19	1 year
Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120D	02334	2025.05.20	2026.05.19	1 year
Horn Antenna	COM-POWER	AH-1840	10100008	2025.07.28	2026.07.27	1 year
Thermometer	DeLi	N/A	N/A	2025.08.01	2026.07.31	1 year
Test Software	FALA	EMC-RI(Ver.4A2)	N/A	N/A	N/A	N/A
Wideband radio communication tester	R&S	CMW500	101331	2025.07.28	2026.07.27	1 year
Spectrum analyzer	R&S	FSV40-N	101761	2025.07.28	2026.07.27	1 year
Vector signal generator	Keysight	N5182B	MY50200811	2025.07.28	2026.07.27	1 year
Alternative Horn Antenna	Schwarzbeck	BBHA 9120D	2802	2025.07.28	2026.07.27	1 year
Filter Box	XingBo	EZSVFU1&EZSVFU2	N/A	2025.07.28	2026.07.27	1 year
Substitute antenna Bilog Antenna	SCHWARZBECK	VULB 9168	1449	2025.05.20	2026.05.19	1 year
Substitute antenna Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120D	2659	2025.05.20	2026.05.19	1 year

2.5.3. For AC Power-Line Conducted Emission

Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	Calibrated due until	Cal. Interval
EMI Test Receiver	R&S	ESPI	100679	2025.03.17	2026.03.16	1 year
LISN	R&S	ENV216	101300	2025.03.17	2026.03.16	1 year
LISN	R&S	ENV216	100333	2025.03.17	2026.03.16	1 year
CE Cable	Chuangcexing	2M	EMI0014	N/A	N/A	N/A
Temperature & Humidity	Deli	Deli	EMI0015	2025.08.01	2026.07.31	1 year
Testing Software	FALA	EZ-EMC(Ver.EMC-CON 3A1.1)	EMI0044	N/A	N/A	N/A
Wideband radio communication tester	R&S	CMW500	101331	2025.07.28	2026.07.27	1 year

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	$\pm 3\times 10^{-8}$

2.7. Environmental conditions

Temperature	Normal Temperature(NT):	25°C
	High Temperature(HT):	55°C
	Low Temperature(LT):	-20°C
Voltage	Normal Voltage(NV):	3.85V
	High Voltage(HV):	4.75V
	Low Voltage(LV):	3.66V
Other	Relative Humidity	55 %
	Air Pressure	101 kPa

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 ,Band 18 and Band 26.

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

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

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

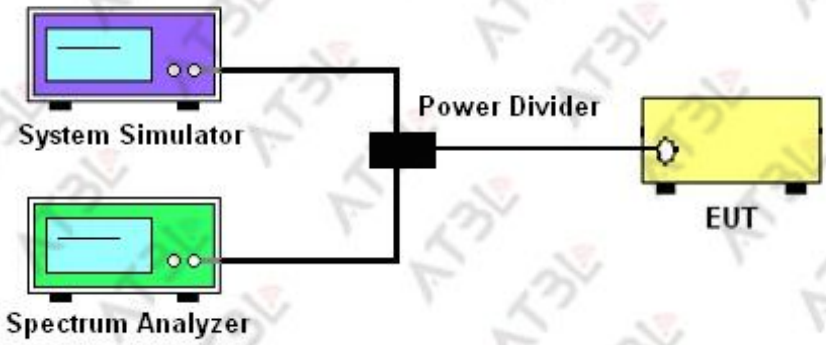
1. The testing follows ANSI C63.26 Section 5.2.
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level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

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

Please refer to the Appendix H1.

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

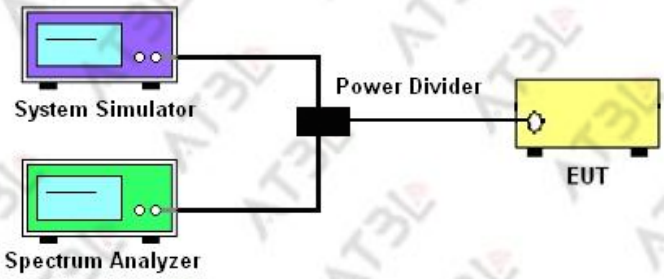
1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR 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 H2.

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

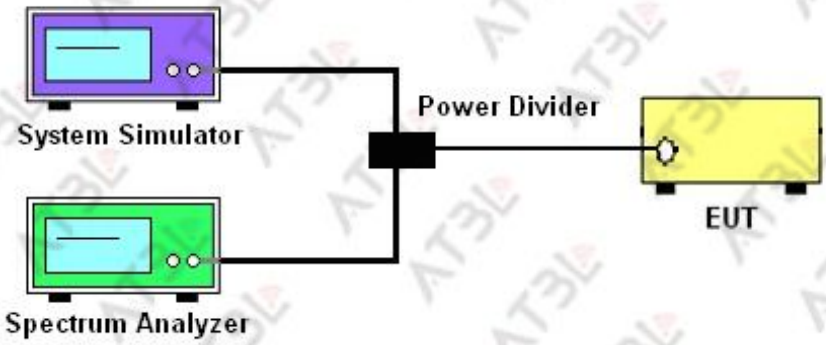
1. The testing follows ANSI C63.26 Section 5.4.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five 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 H3.

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)

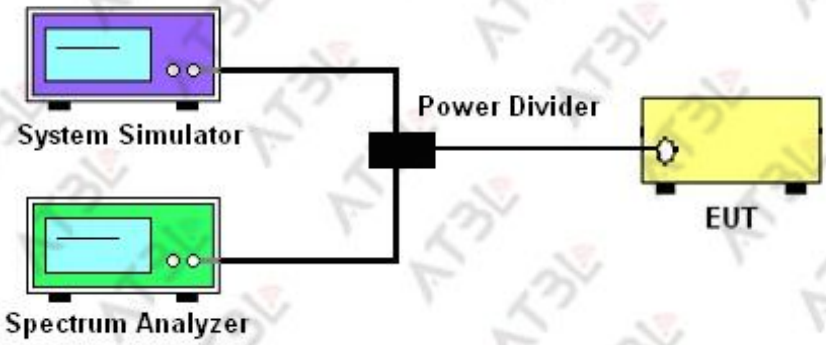
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm
9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.4.4. Test Result of Conducted Band Edge

Please refer to the Appendix H4.

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

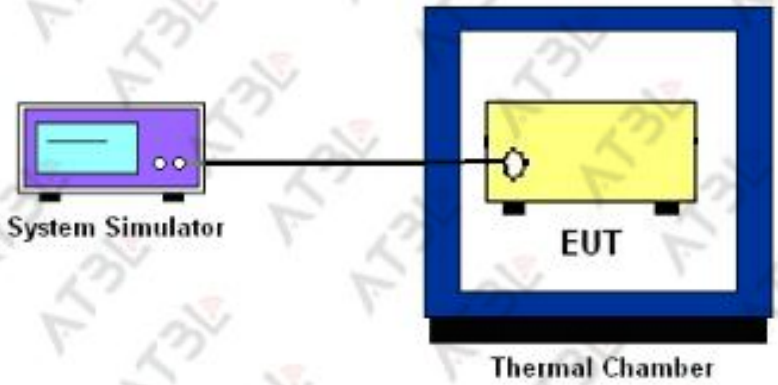
1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle 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 H5.

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.

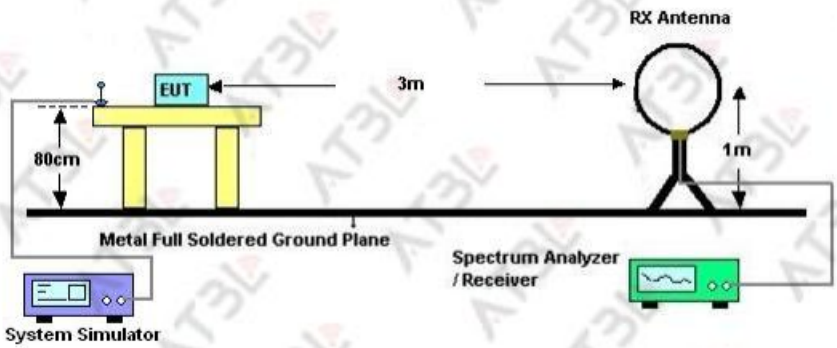
3.6.5. Test Result of Frequency Stability

Please refer to the Appendix H6.

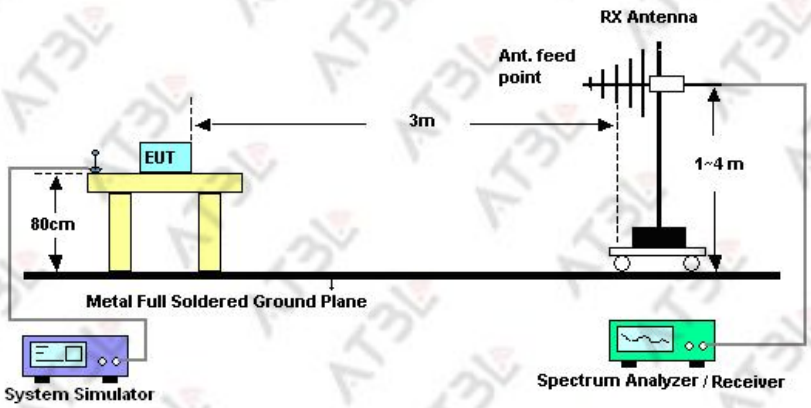
3.7. Radiated Spurious Emission

3.7.1. Test Setup

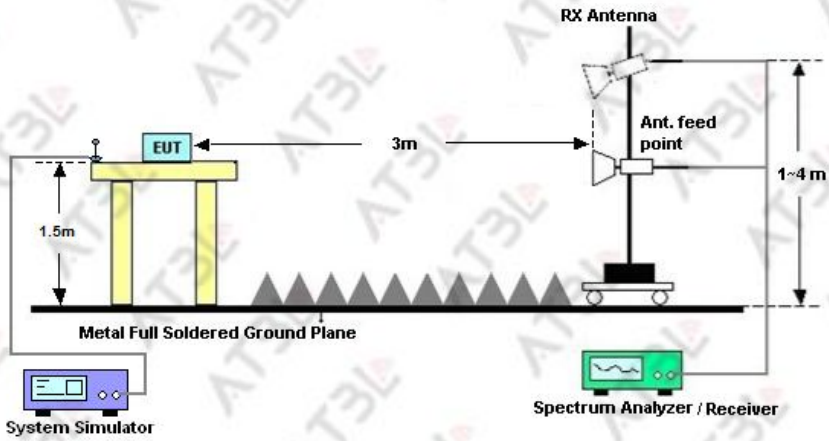
3.7.1.1. For radiated test below 30MHz



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：

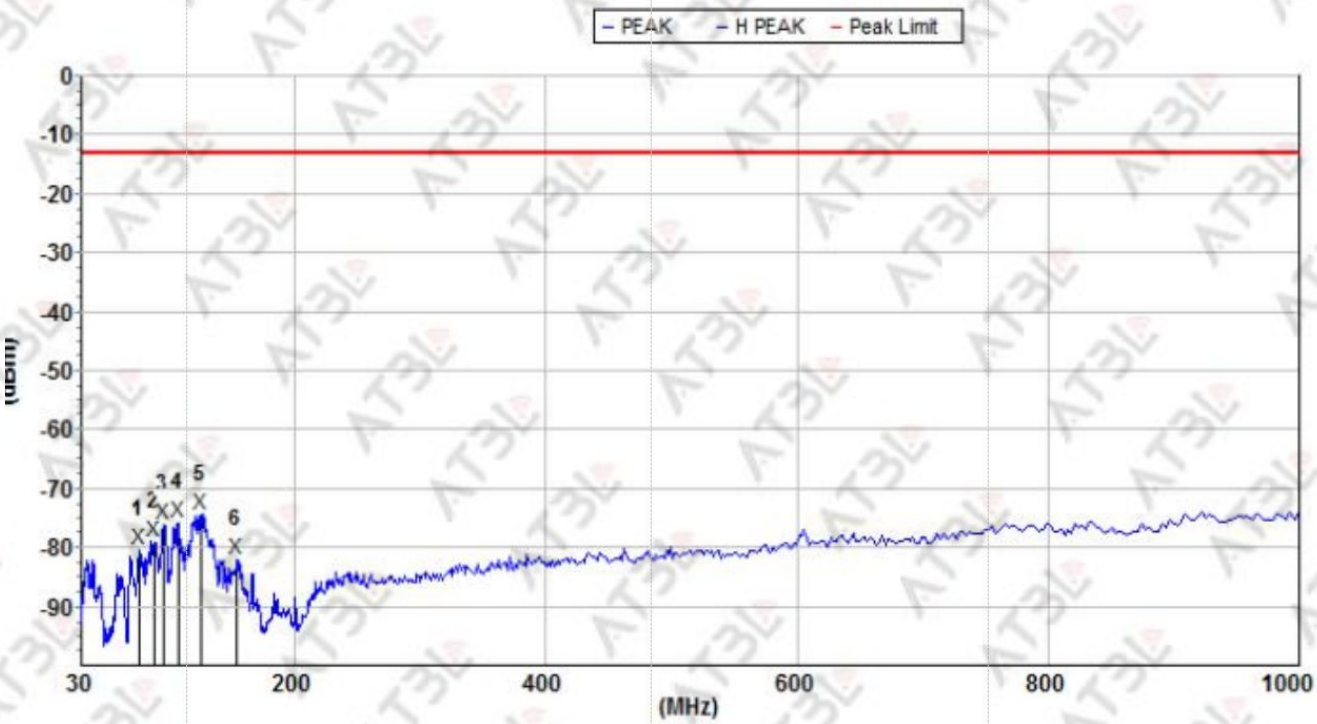
Below 1GHz:

Note:Only the worst data LTE Band2_ high channel is recorded in the 30MHz-1GHz report.

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

Horizontal

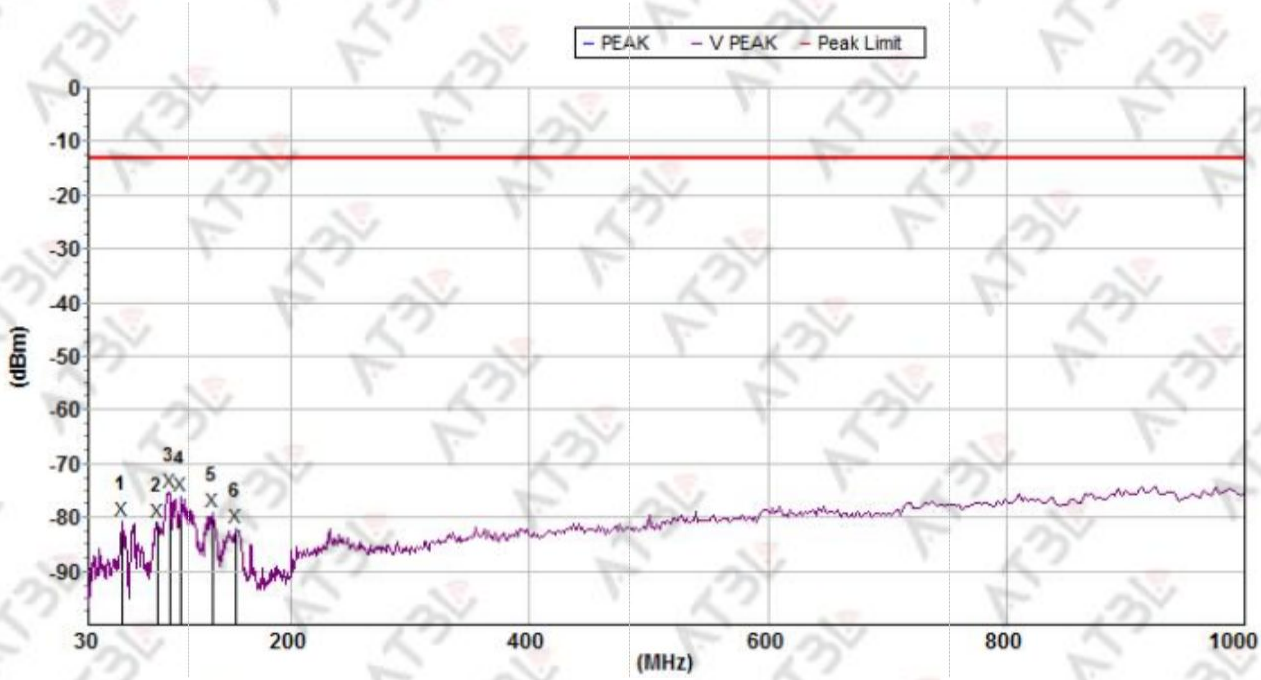
30MHz -1000MHz



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	76.512	-80.4	-13.0	67.4	329	150	-44.2	H
2	87.418	-78.9	-13.0	65.9	6.1	150	-43.2	H
3	95.093	-76.0	-13.0	63.0	360	150	-40.8	H
4	106.759	-75.8	-13.0	62.8	43.7	150	-38.3	H
5	125.446	-74.5	-13.0	61.5	18.4	150	-34.3	H
6	153.739	-81.8	-13.0	68.8	126.1	150	-36.8	H

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

Vertical

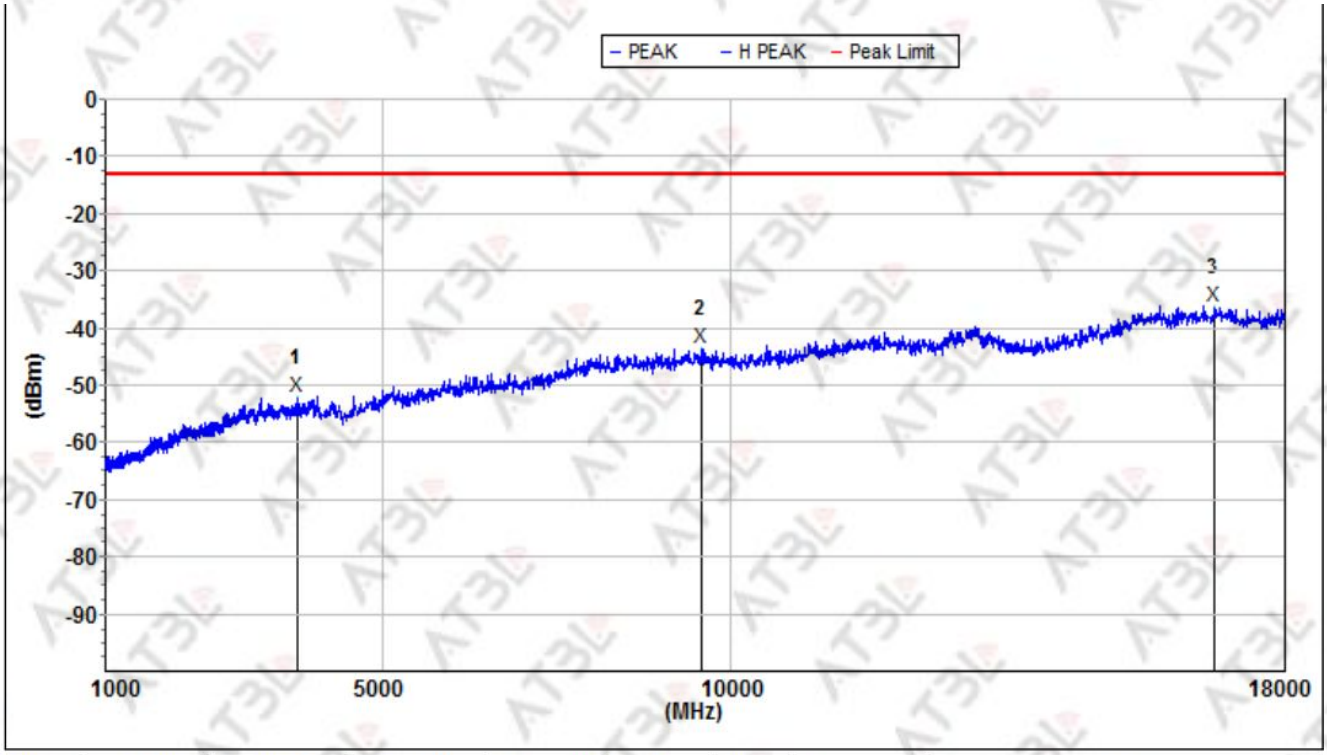


Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg(...)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	58.407	-80.6	-13.0	67.6	261.2	150	-43.9	V
2	88.033	-80.8	-13.0	67.8	2.1	150	-41.2	V
3	97.798	-75.3	-13.0	62.3	152.7	150	-37.8	V
4	107.888	-76.1	-13.0	63.1	210.3	150	-34.0	V
5	134.088	-79.0	-13.0	66.0	350.5	150	-35.9	V
6	154.279	-81.9	-13.0	68.9	12.8	150	-35.6	V

Above1GHz:

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

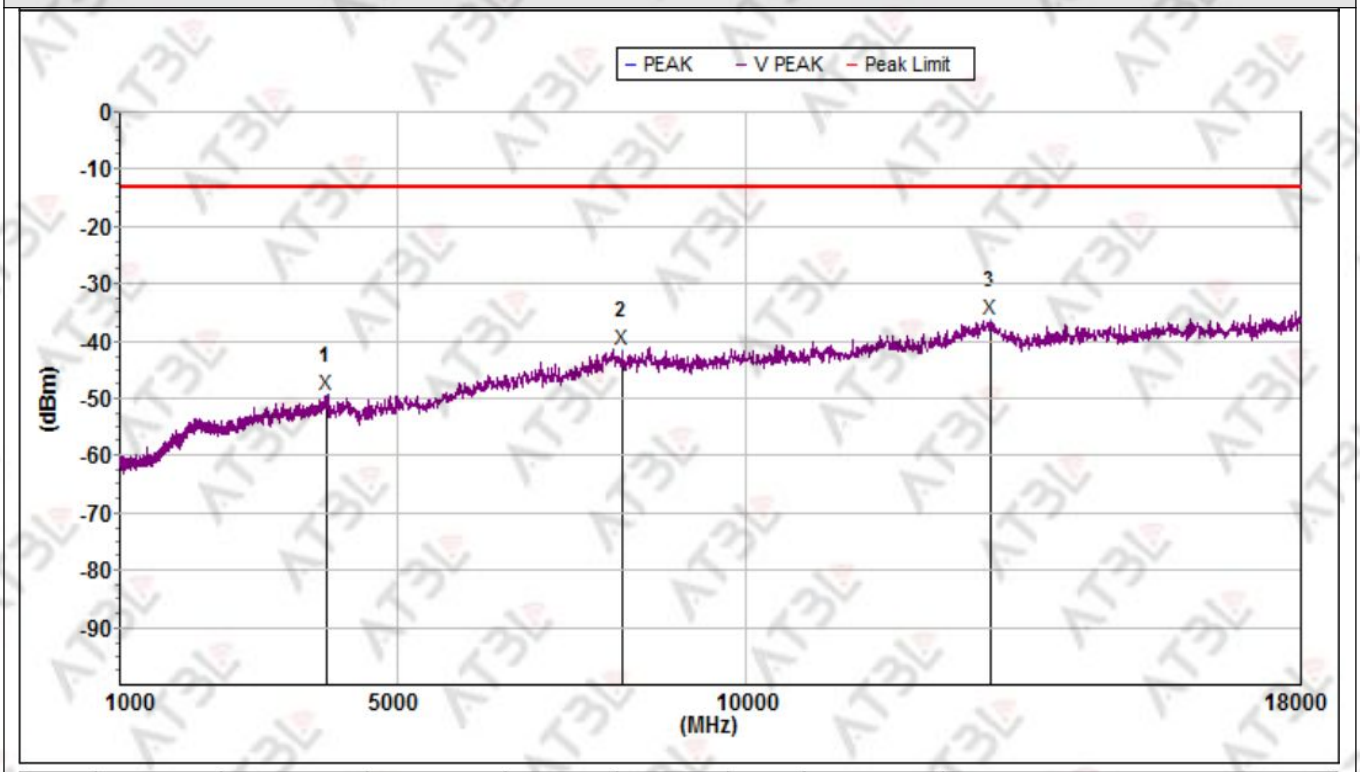
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3760.000	-52.1	-13.0	39.1	161.82	150	-6.3	H
2	9586.000	-43.5	-13.0	30.5	0	150	5.3	H
3	16985.000	-36.1	-13.0	23.1	0	150	14.2	H

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

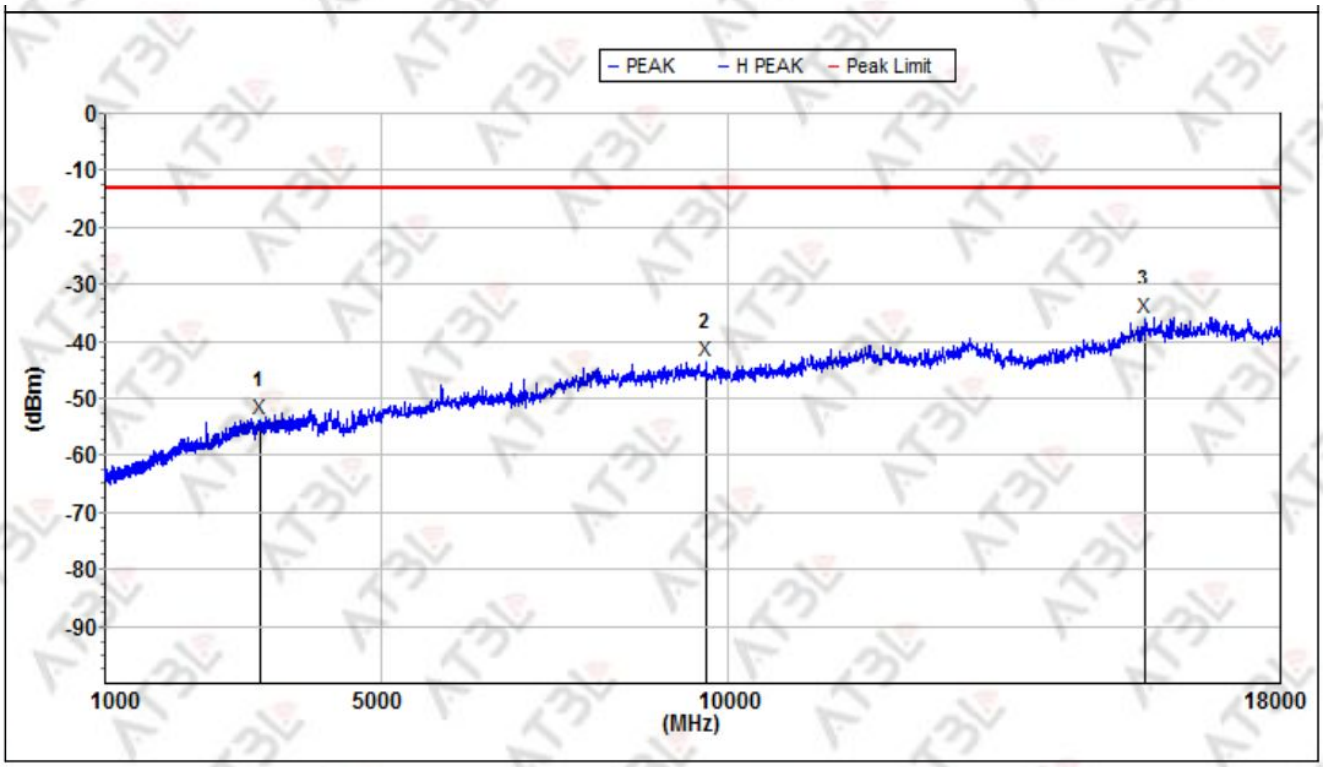
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3967.000	-49.2	-13.0	36.2	169.97	150	-2.2	V
2	8221.000	-41.4	-13.0	28.4	359.99	150	7.2	V
3	13534.000	-36.2	-13.0	23.2	359.99	150	13.4	V

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

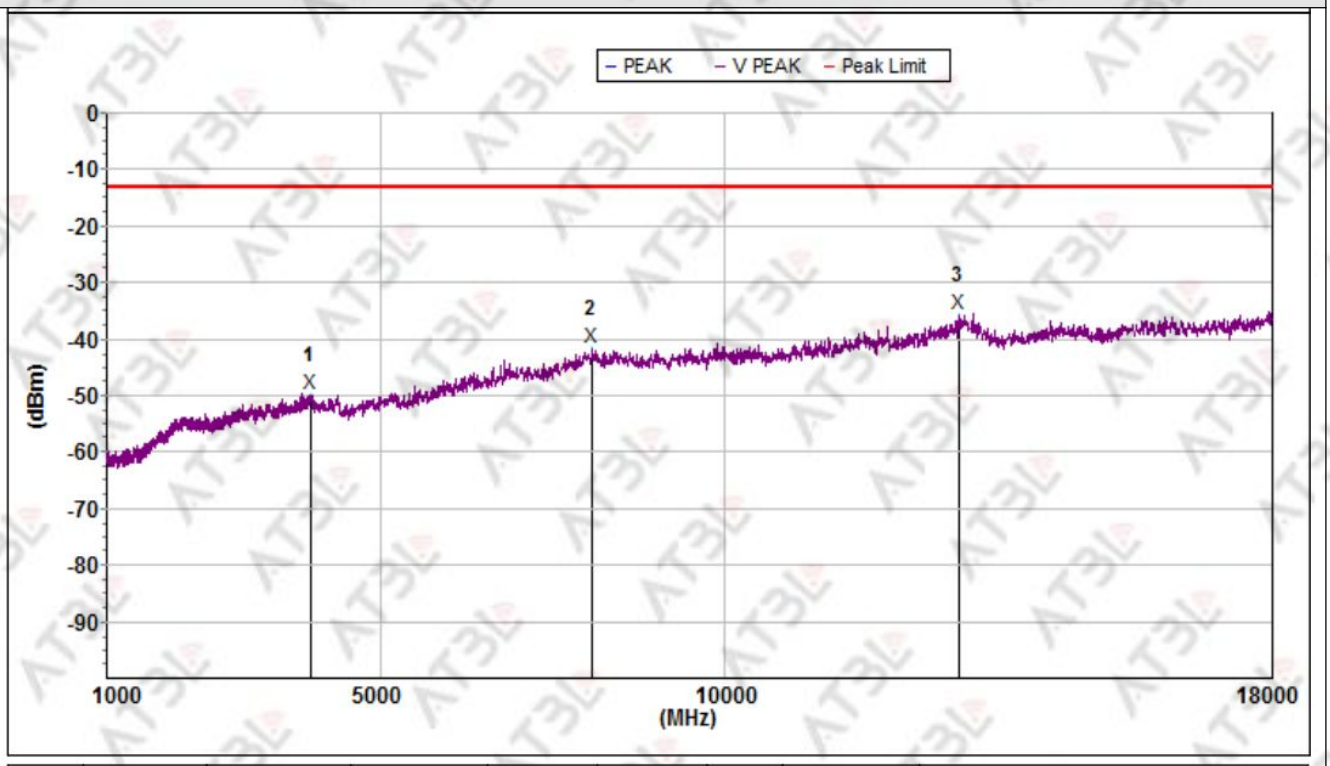
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3235.000	-53.6	-13.0	40.6	130.12	150	-8.0	H
2	9691.000	-43.5	-13.0	30.5	0.4	150	5.2	H
3	16054.000	-35.9	-13.0	22.9	0.4	150	13.9	H

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

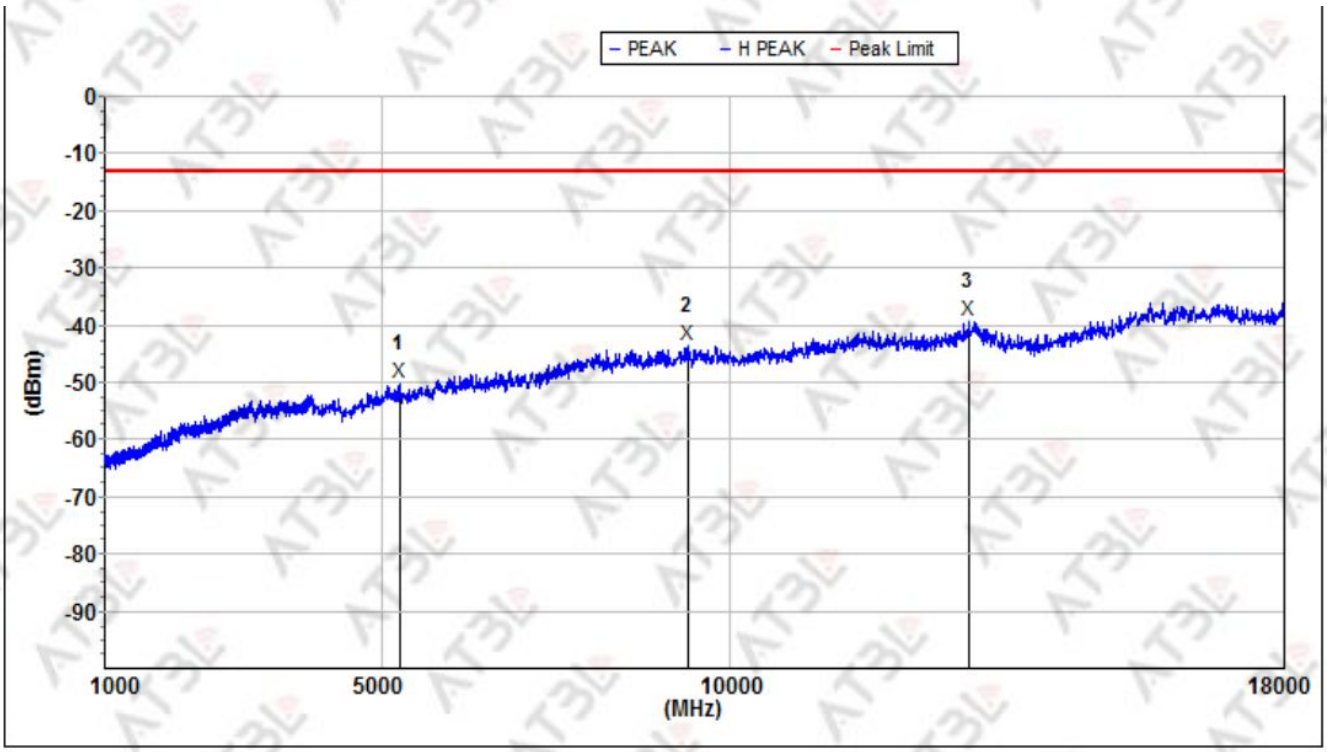
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3976.000	-49.6	-13.0	36.6	0.7	150	-2.2	V
2	8074.000	-41.5	-13.0	28.5	359.36	150	7.3	V
3	13443.000	-35.5	-13.0	22.5	359.36	150	13.3	V

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

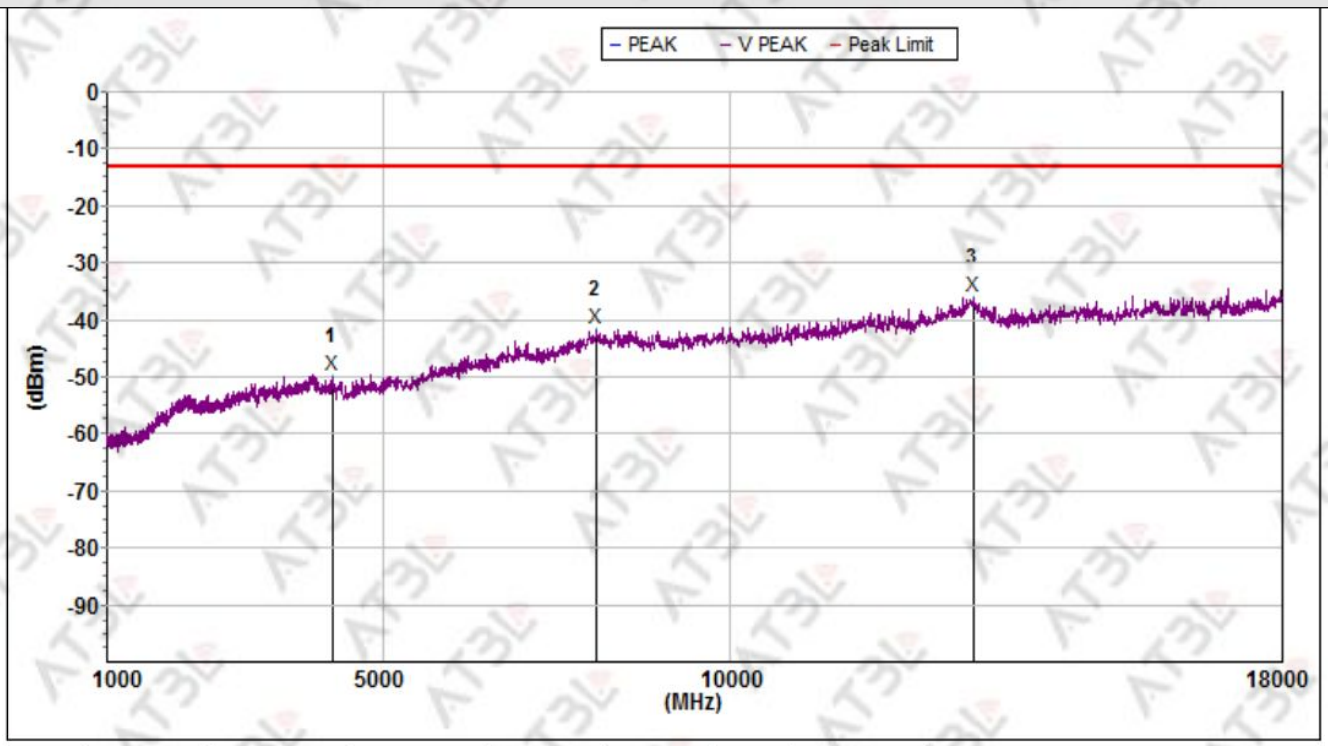
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	5267.000	-50.0	-13.0	37.0	0	150	-2.0	H
2	9397.000	-43.3	-13.0	30.3	0	150	5.2	H
3	13457.000	-39.1	-13.0	26.1	0	150	9.9	H

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

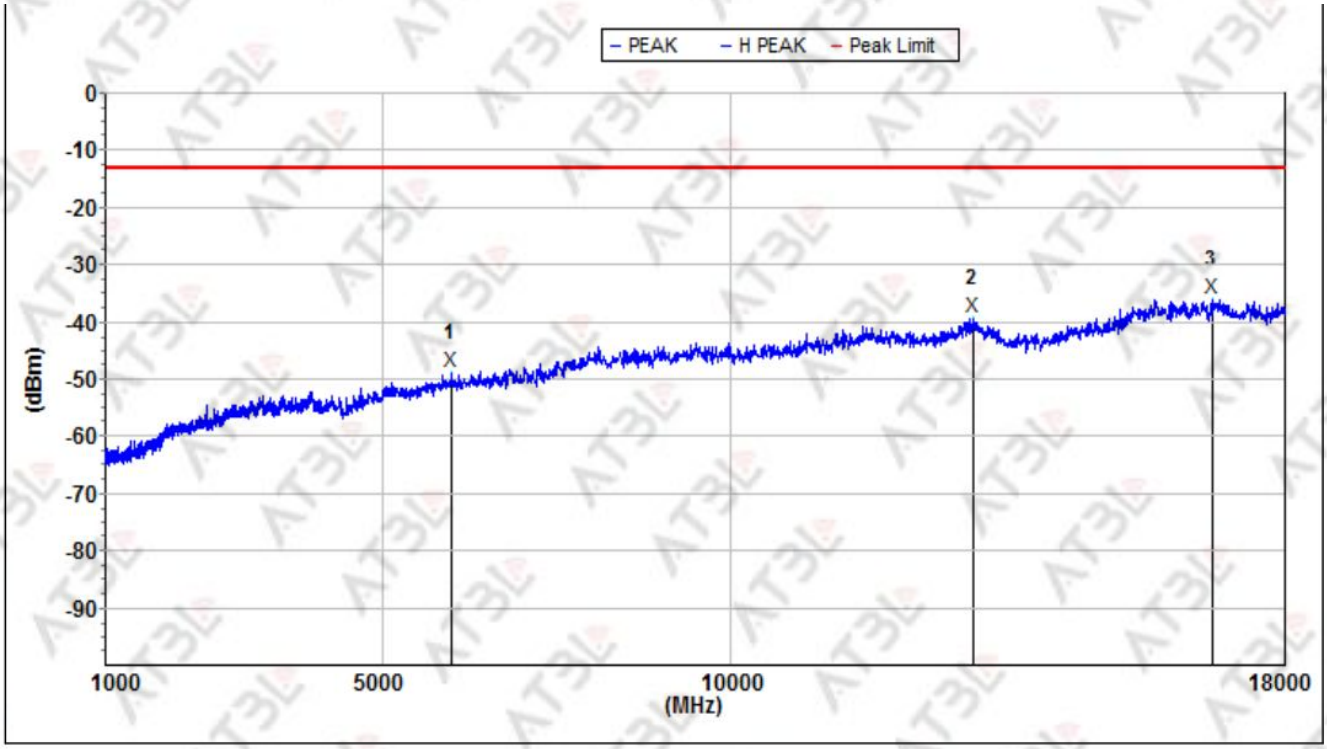
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	4266.000	-49.7	-13.0	36.7	359.51	150	-2.1	V
2	8074.000	-41.5	-13.0	28.5	359.51	150	7.3	V
3	13534.000	-35.8	-13.0	22.8	359.51	150	13.4	V

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

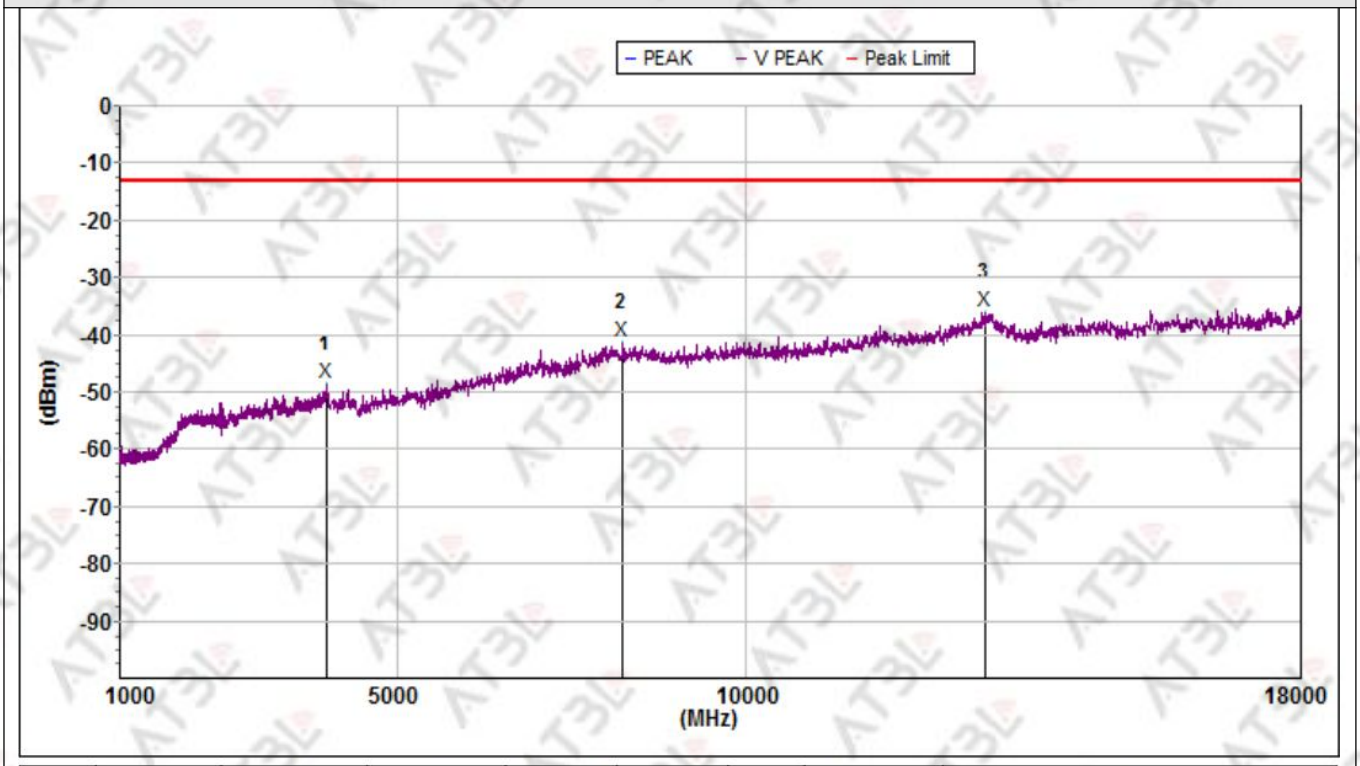
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	5995.000	-48.6	-13.0	35.6	0.2	150	0.2	H
2	13506.000	-39.2	-13.0	26.2	0.2	150	10.0	H
3	16950.000	-36.0	-13.0	23.0	0.2	150	14.2	H

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

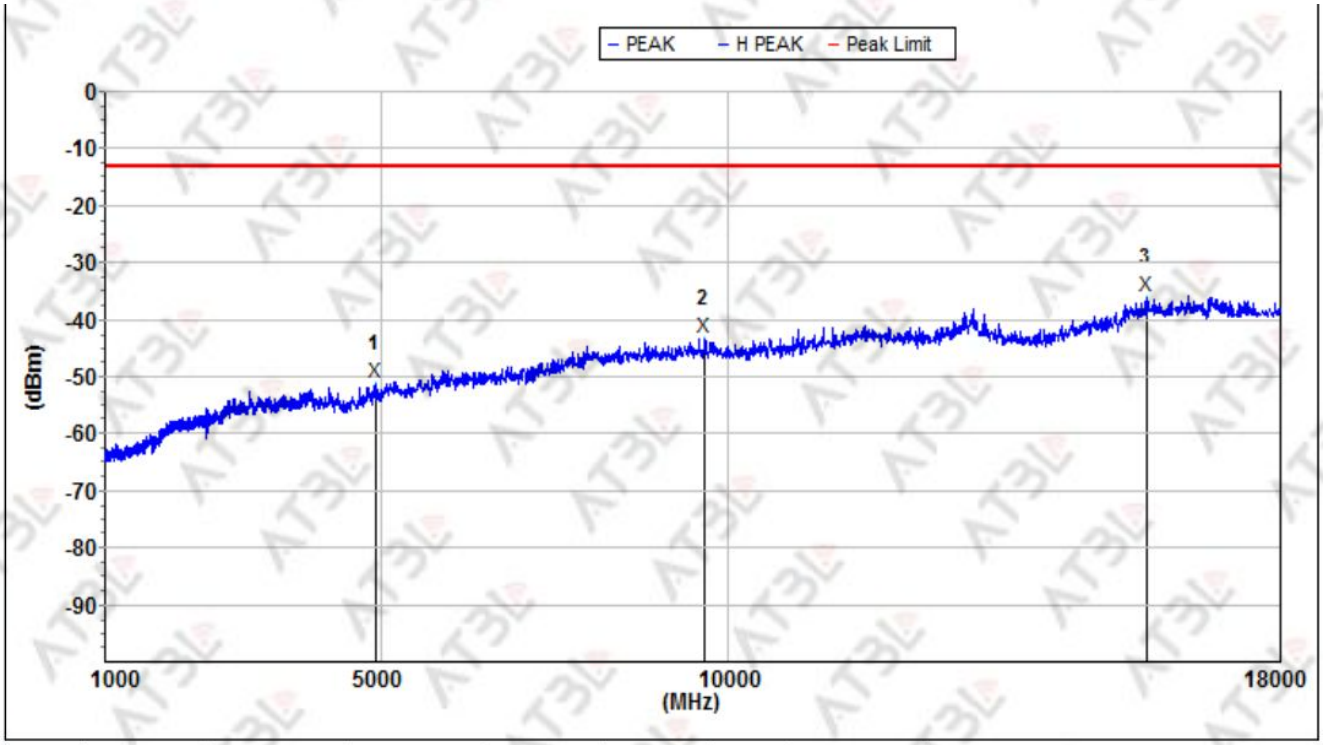
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3986.500	-48.5	-13.0	35.5	331.92	150	-2.1	V
2	8228.000	-41.2	-13.0	28.2	360	150	7.2	V
3	13464.000	-35.9	-13.0	22.9	360	150	13.4	V

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

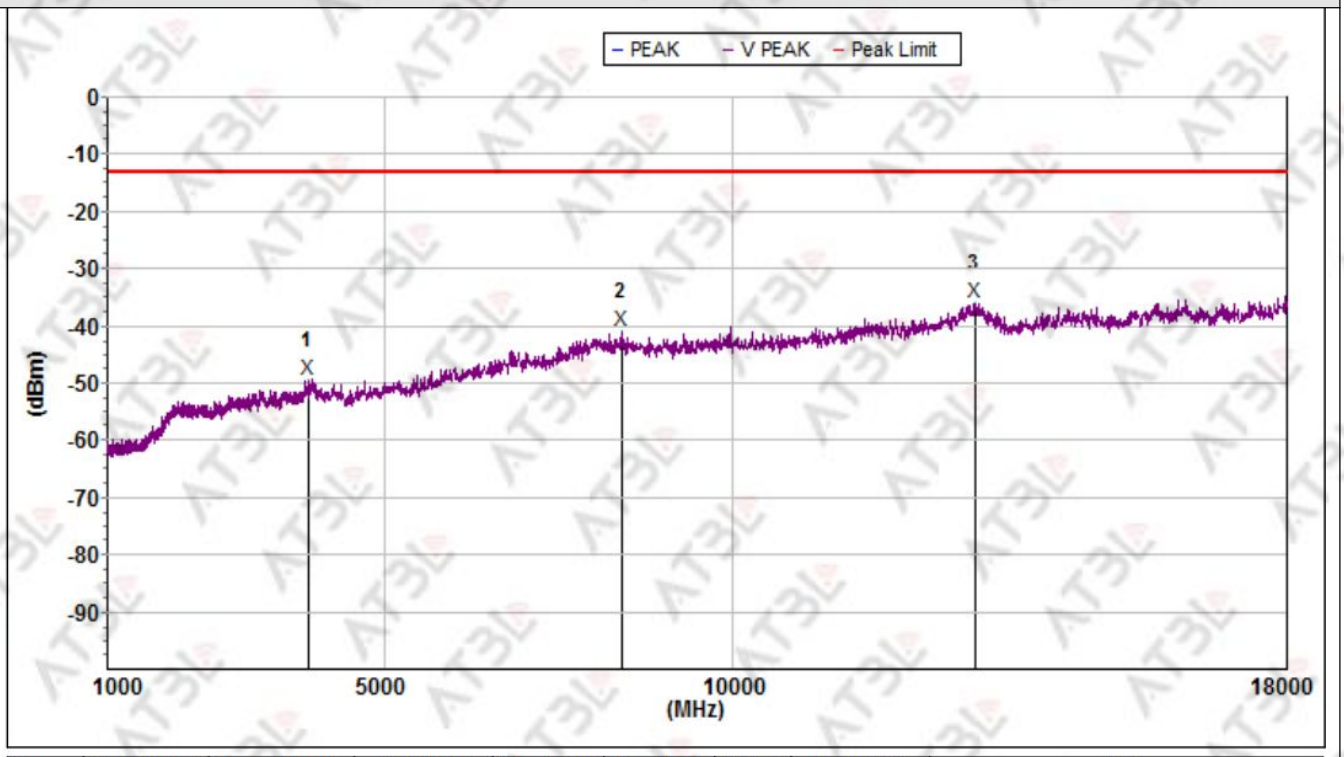
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	4924.000	-50.9	-13.0	37.9	0	150	-2.6	H
2	9670.000	-43.2	-13.0	30.2	0	150	5.2	H
3	16068.000	-35.8	-13.0	22.8	0	150	13.9	H

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

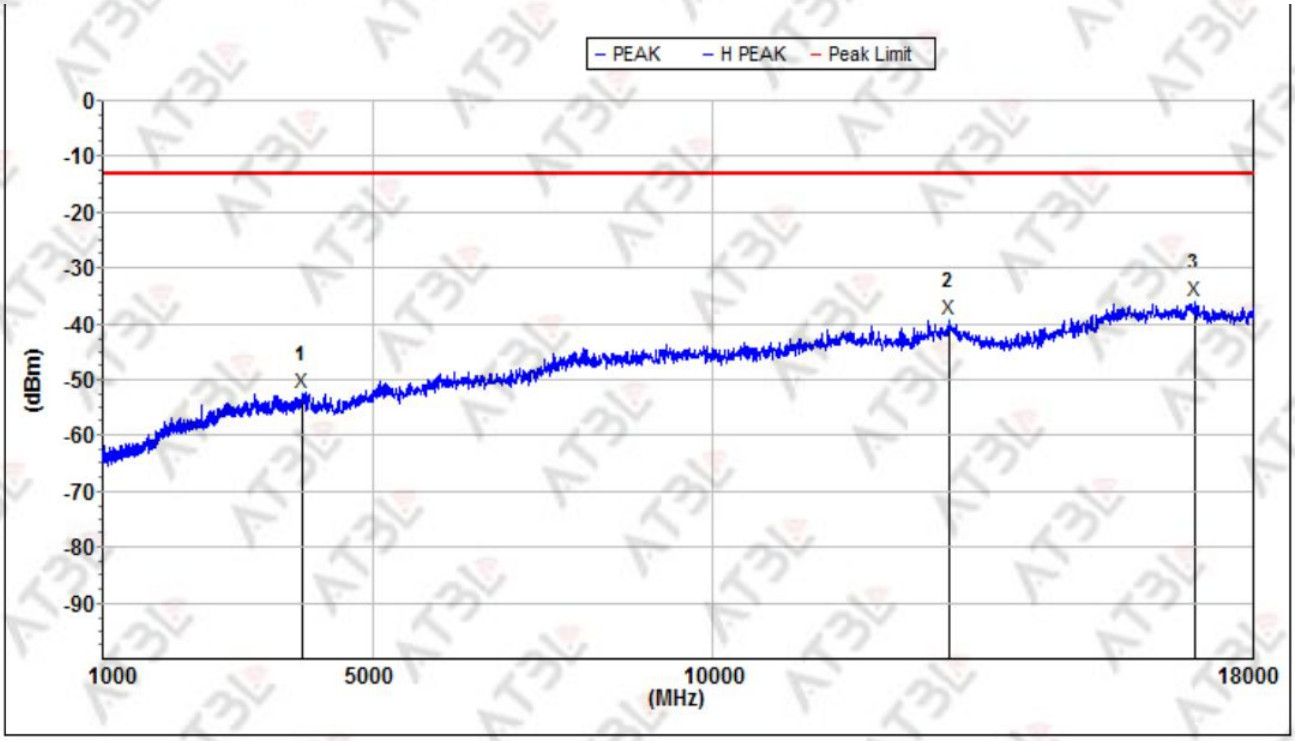
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3908.500	-49.4	-13.0	36.4	120.22	150	-2.6	V
2	8424.000	-40.9	-13.0	27.9	359.84	150	7.1	V
3	13520.000	-35.7	-13.0	22.7	359.84	150	13.4	V

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

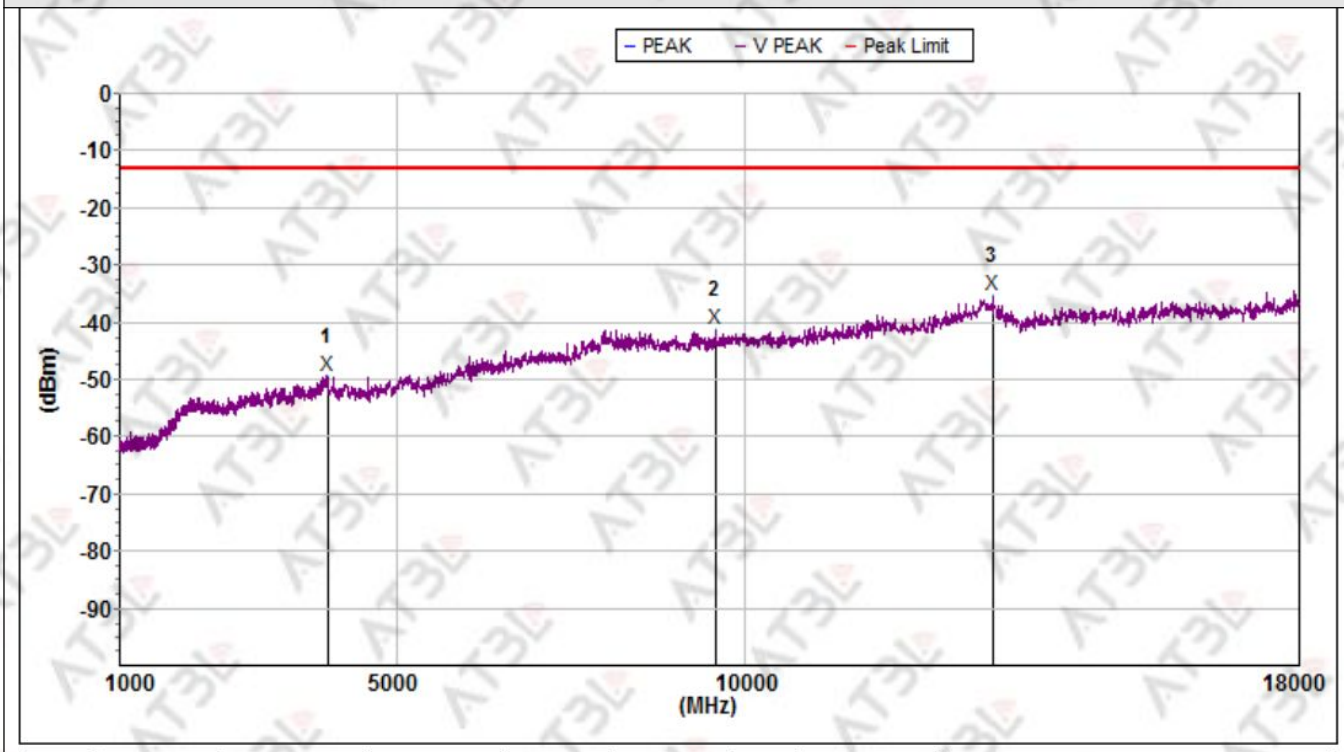
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3955.000	-52.3	-13.0	39.3	135.67	150	-5.1	H
2	13513.000	-39.2	-13.0	26.2	0.1	150	10.0	H
3	17146.000	-36.0	-13.0	23.0	0.1	150	14.1	H

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

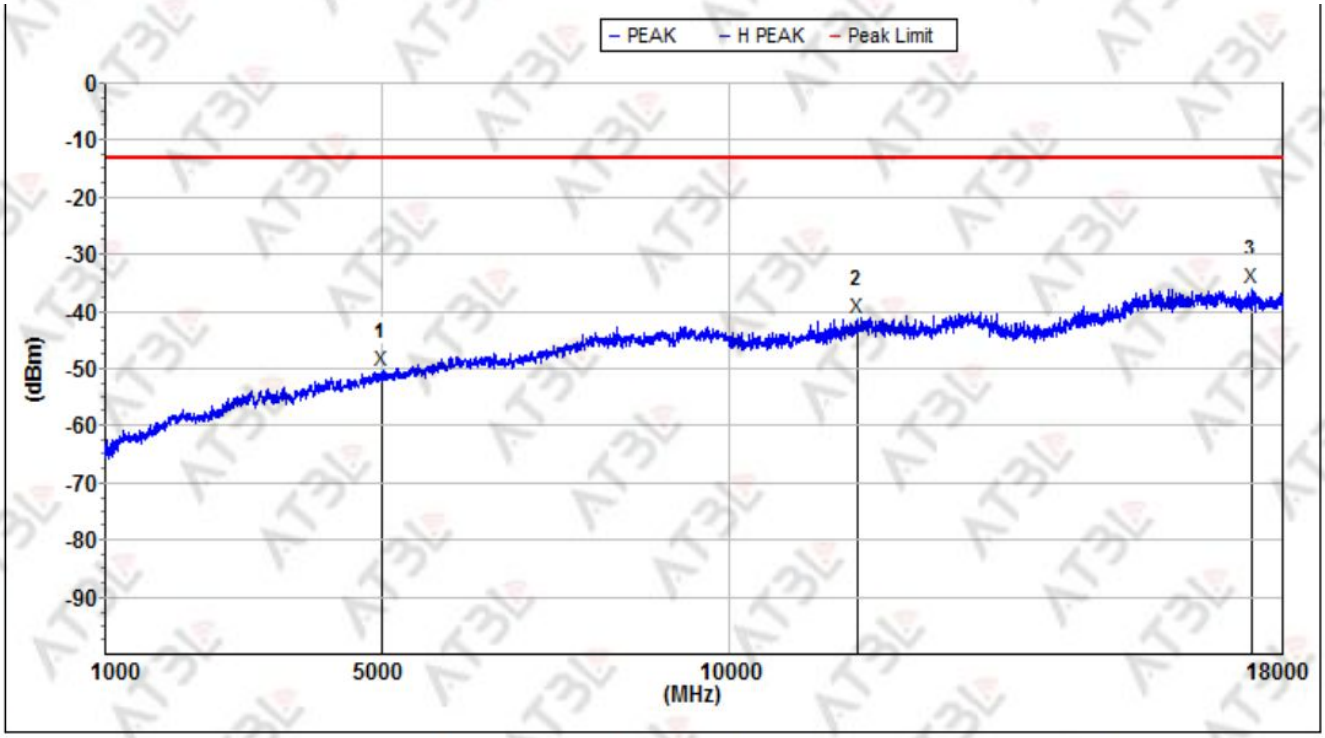
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3997.000	-49.3	-13.0	36.3	75.42	150	-2.0	V
2	9586.000	-41.0	-13.0	28.0	359.94	150	7.3	V
3	13590.000	-35.2	-13.0	22.2	359.94	150	13.0	V

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

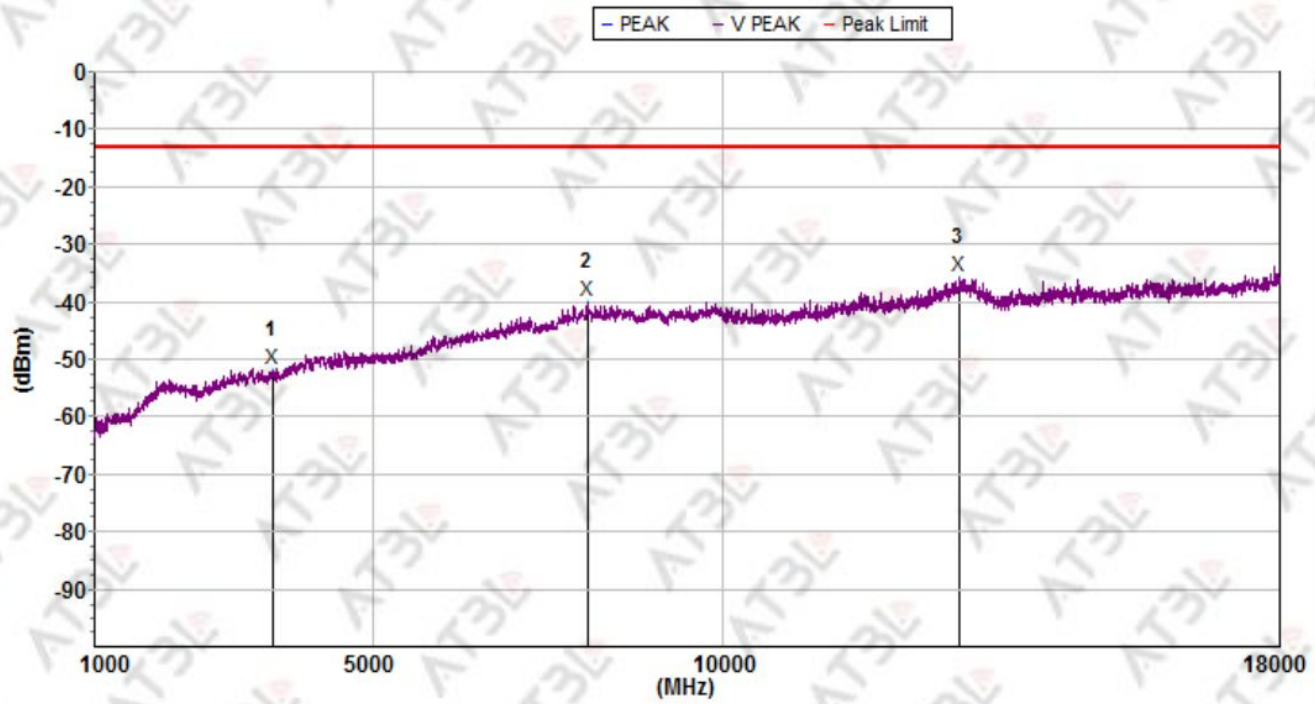
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	5000.500	-50.2	-13.0	37.2	62.22	150	-2.4	H
2	11852.000	-41.0	-13.0	28.0	0	150	7.9	H
3	17564.000	-35.8	-13.0	22.8	0	150	13.9	H

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

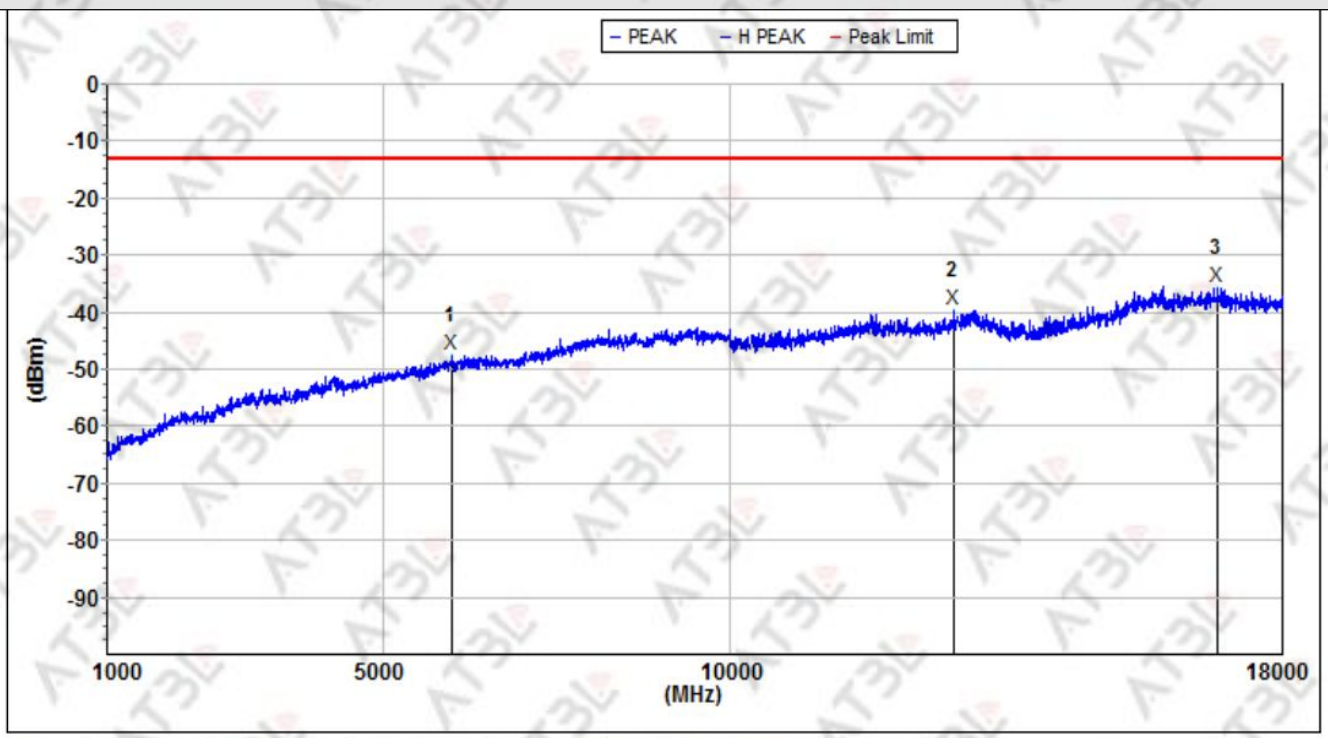
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3560.500	-51.6	-13.0	38.6	332.22	150	-5.6	V
2	8074.000	-39.9	-13.0	26.9	6.79	150	7.1	V
3	13404.000	-35.6	-13.0	22.6	359.98	150	13.2	V

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

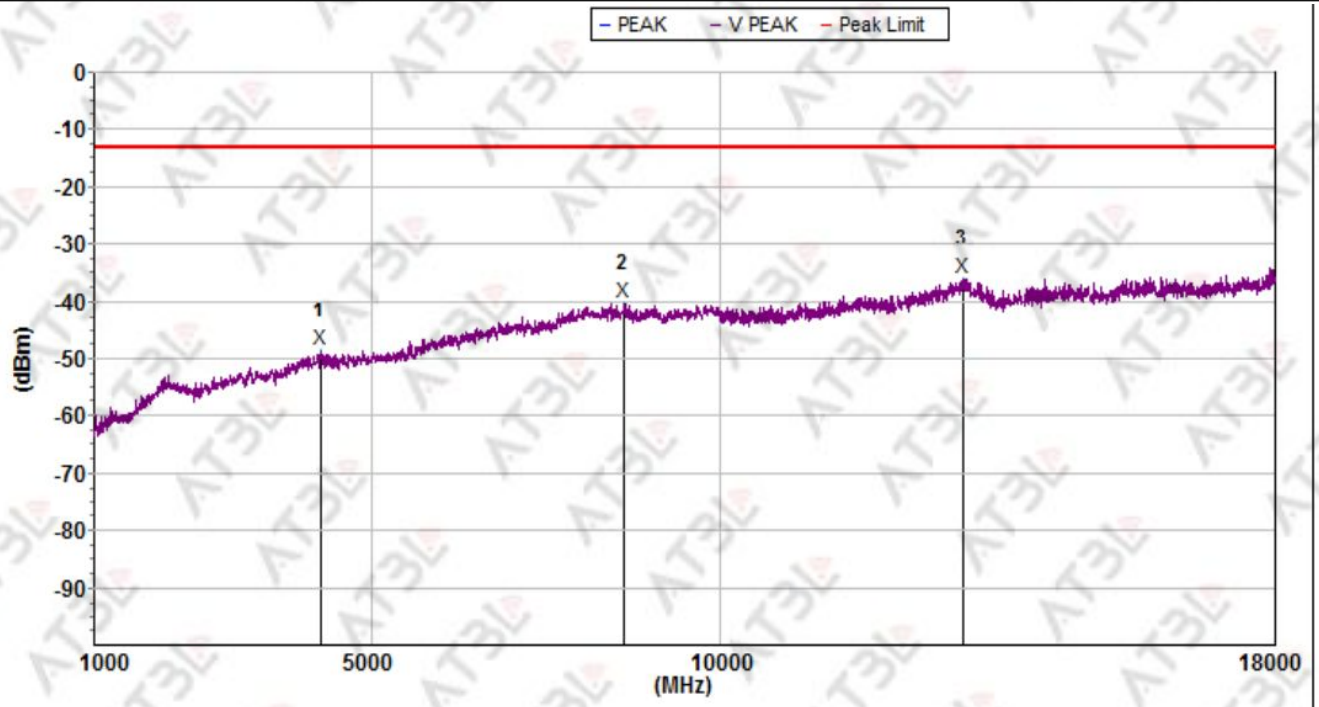
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	5990.500	-47.4	-13.0	34.4	359.13	150	0.1	H
2	13260.000	-39.6	-13.0	26.6	0.2	150	9.0	H
3	17064.000	-35.4	-13.0	22.4	0.2	150	14.2	H

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

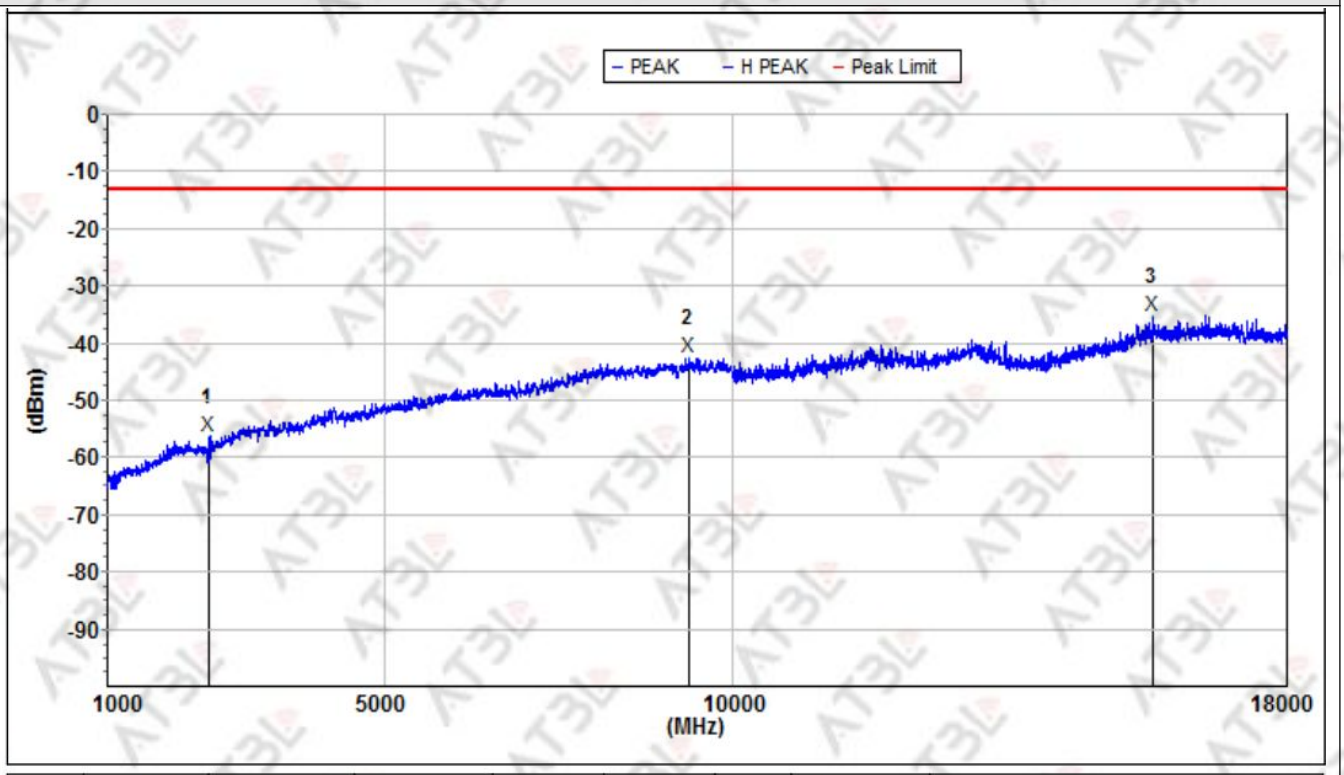
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	4258.000	-48.3	-13.0	35.3	158.92	150	-2.1	V
2	8618.500	-40.0	-13.0	27.0	15.72	150	6.8	V
3	13496.000	-36.0	-13.0	23.0	359.94	150	13.5	V

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

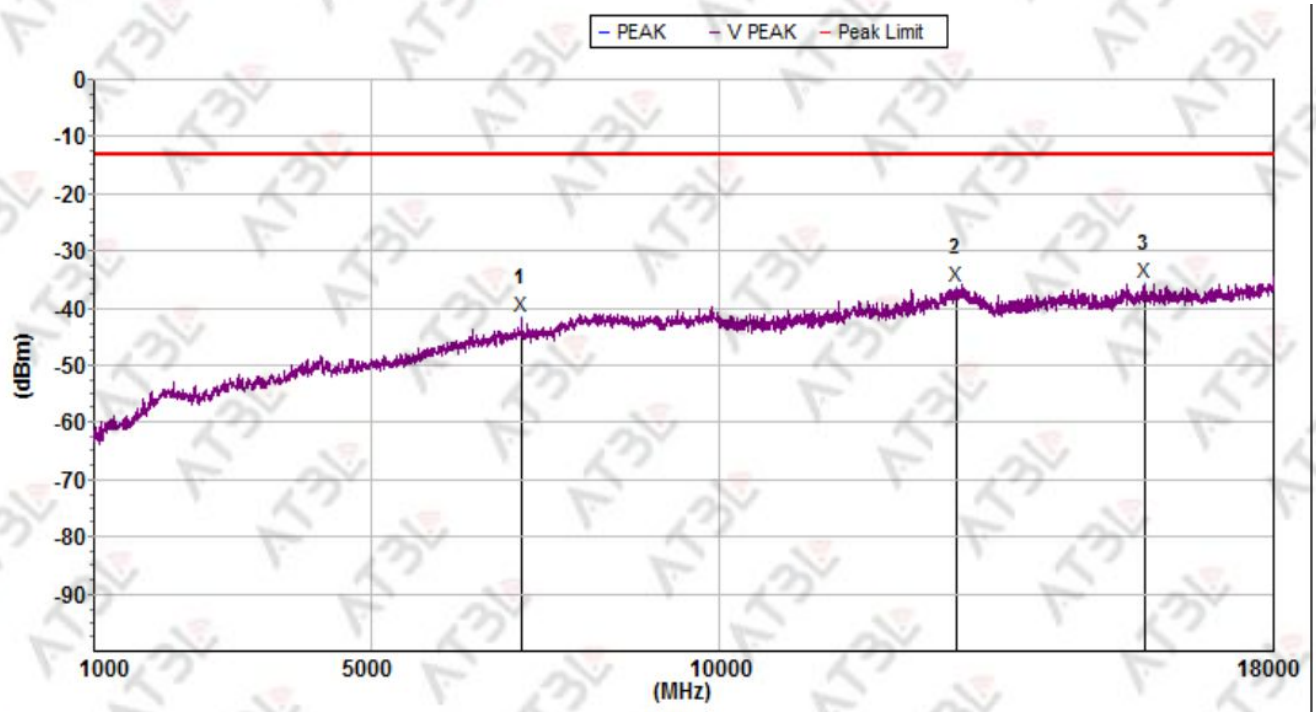
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	2458.000	-56.1	-13.0	43.1	360	150	-11.7	H
2	9388.000	-42.5	-13.0	29.5	130.17	150	5.1	H
3	16076.000	-35.3	-13.0	22.3	0.4	150	13.9	H

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

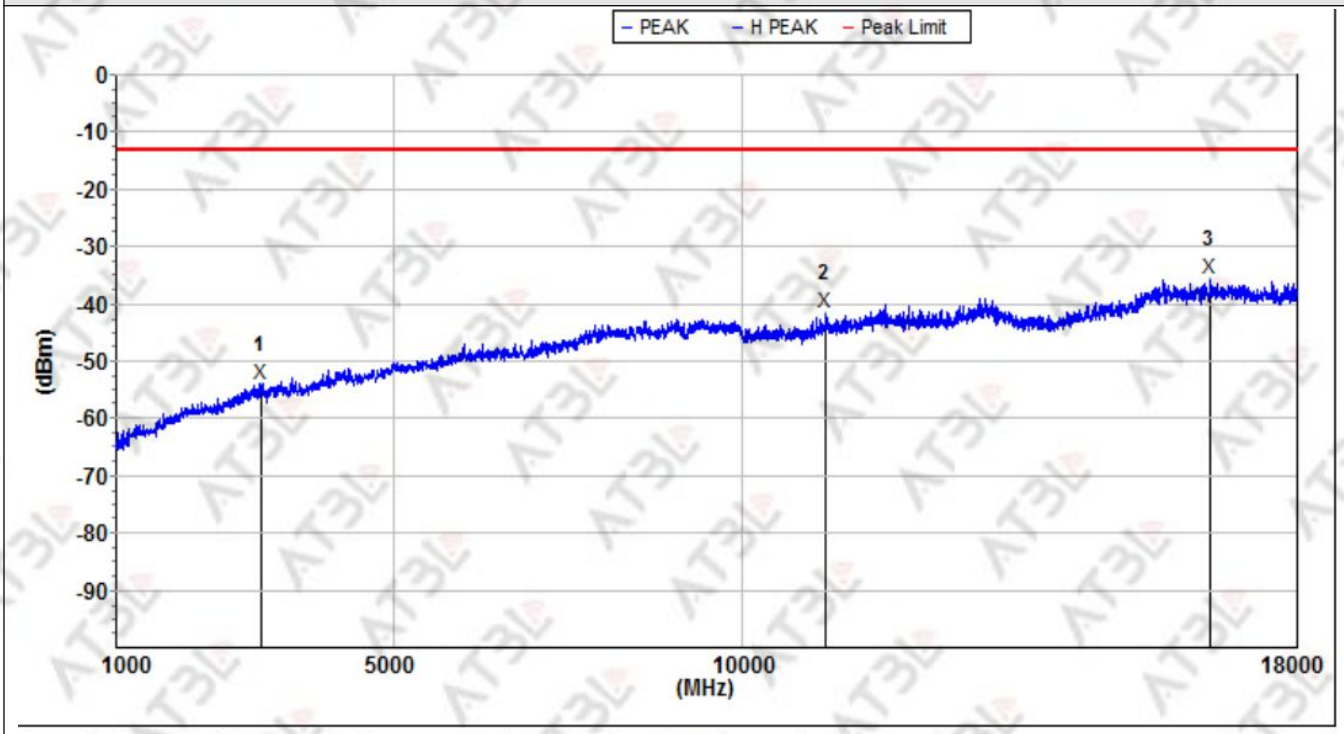
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	7156.000	-41.6	-13.0	28.6	350.2	150	4.6	V
2	13424.000	-36.3	-13.0	23.3	359.97	150	13.2	V
3	16144.000	-35.6	-13.0	22.6	359.97	150	14.0	V

Test Mode	LTE Band 25_Traffic Mode_High CH_Main antenna
Test Bandwidth	20MHz

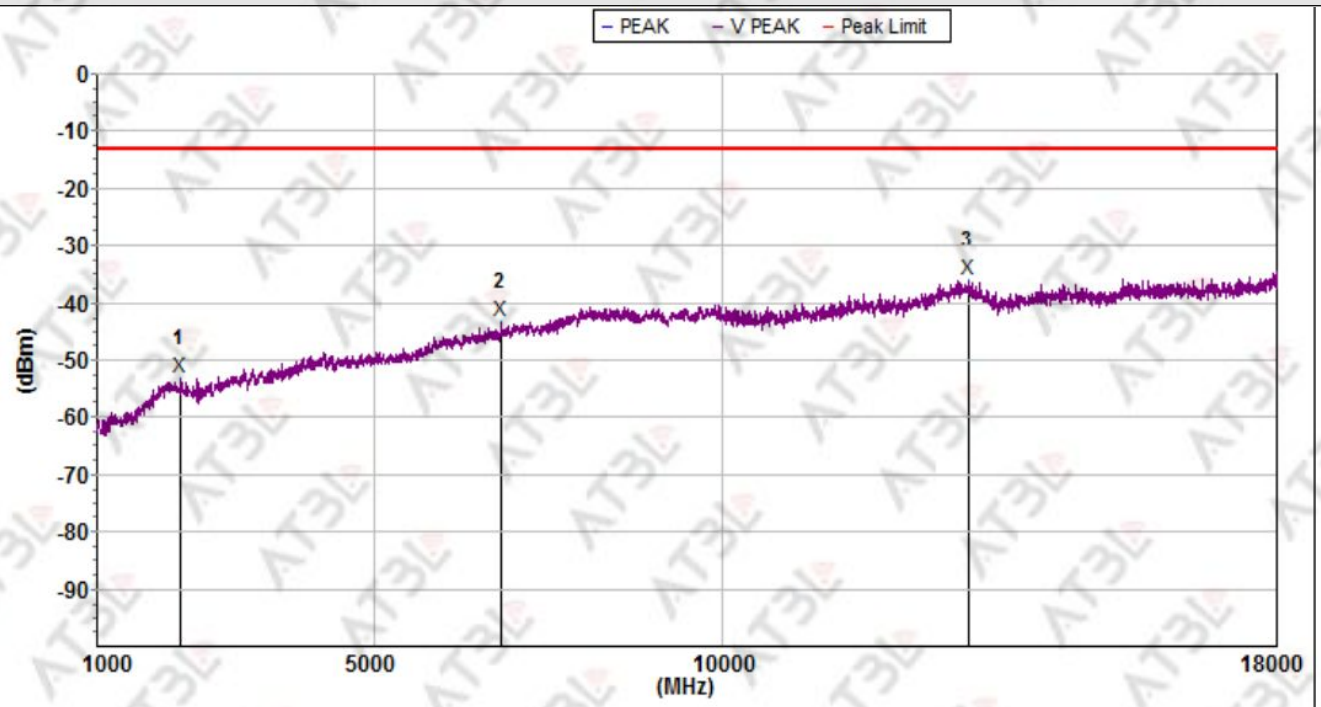
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3083.500	-54.0	-13.0	41.0	209.47	150	-8.2	H
2	11204.000	-41.6	-13.0	28.6	0	150	6.6	H
3	16740.000	-35.6	-13.0	22.6	0	150	14.0	H

Test Mode	LTE Band 25_Traffic Mode_High CH_Main antenna
Test Bandwidth	20MHz

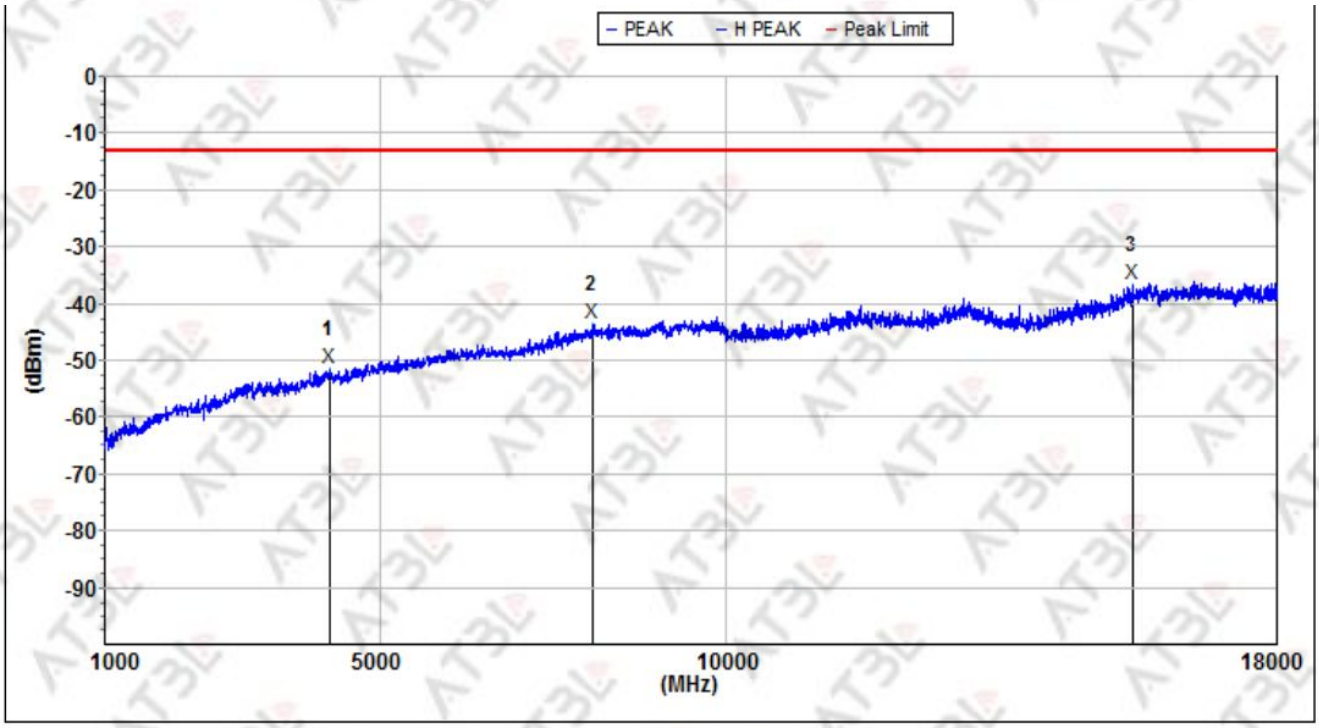
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	2206.000	-53.0	-13.0	40.0	93.97	150	-8.2	V
2	6818.500	-43.2	-13.0	30.2	231.57	150	4.2	V
3	13564.000	-35.8	-13.0	22.8	359.97	150	13.2	V

Test Mode	LTE Band 25_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	20MHz

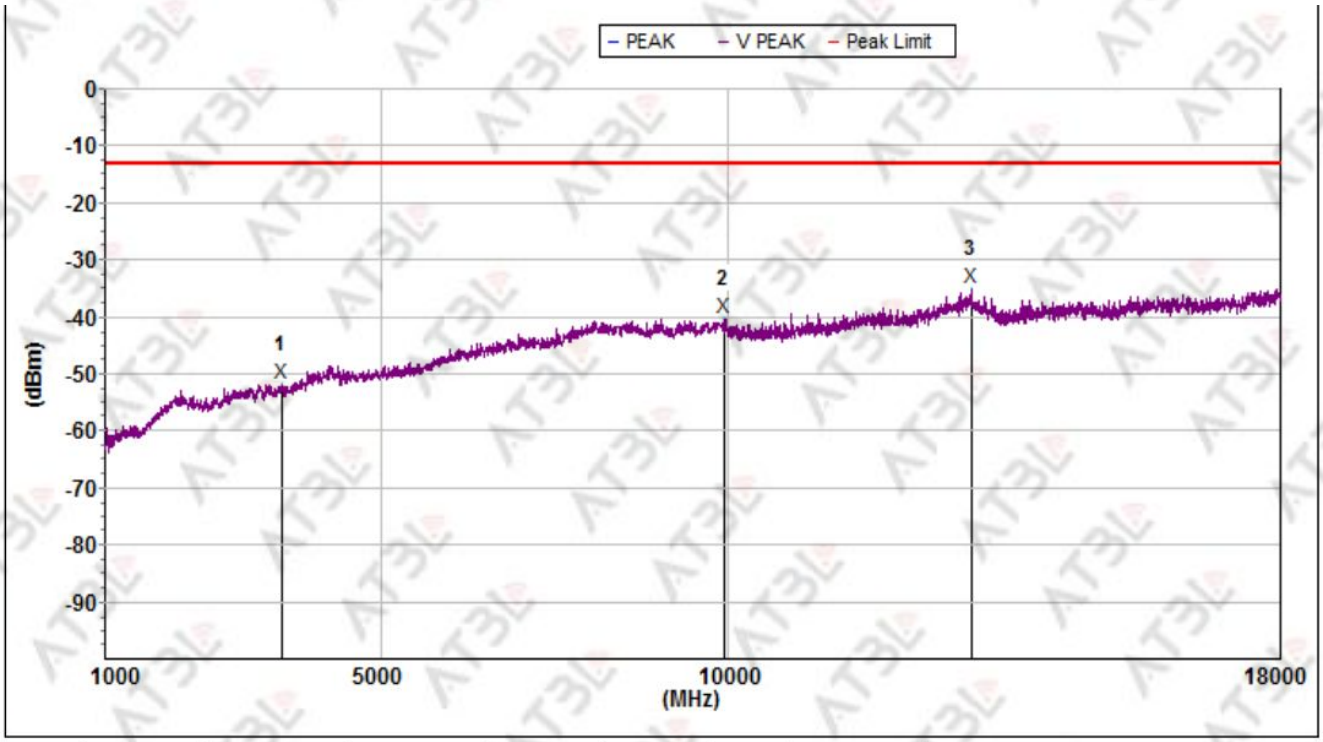
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	4262.500	-51.2	-13.0	38.2	182.67	150	-4.7	H
2	8074.000	-43.3	-13.0	30.3	278.02	150	4.0	H
3	15916.000	-36.4	-13.0	23.4	0.1	150	13.4	H

Test Mode	LTE Band 25_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	20MHz

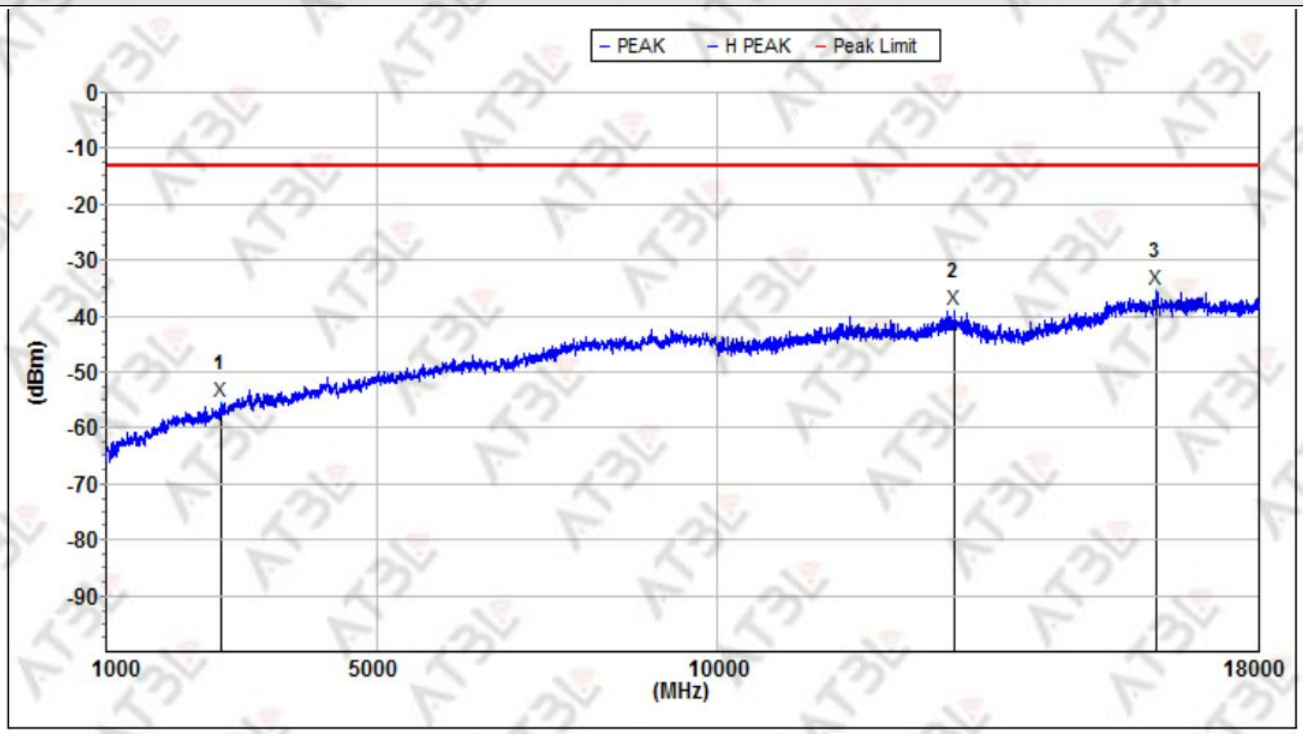
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3551.500	-51.6	-13.0	38.6	74.97	150	-5.7	V
2	9946.000	-40.2	-13.0	27.2	356.2	150	7.7	V
3	13524.000	-35.0	-13.0	22.0	359.84	150	13.4	V

Test Mode	LTE Band 25_Traffic Mode_Low CH_Main antenna
Test Bandwidth	20MHz

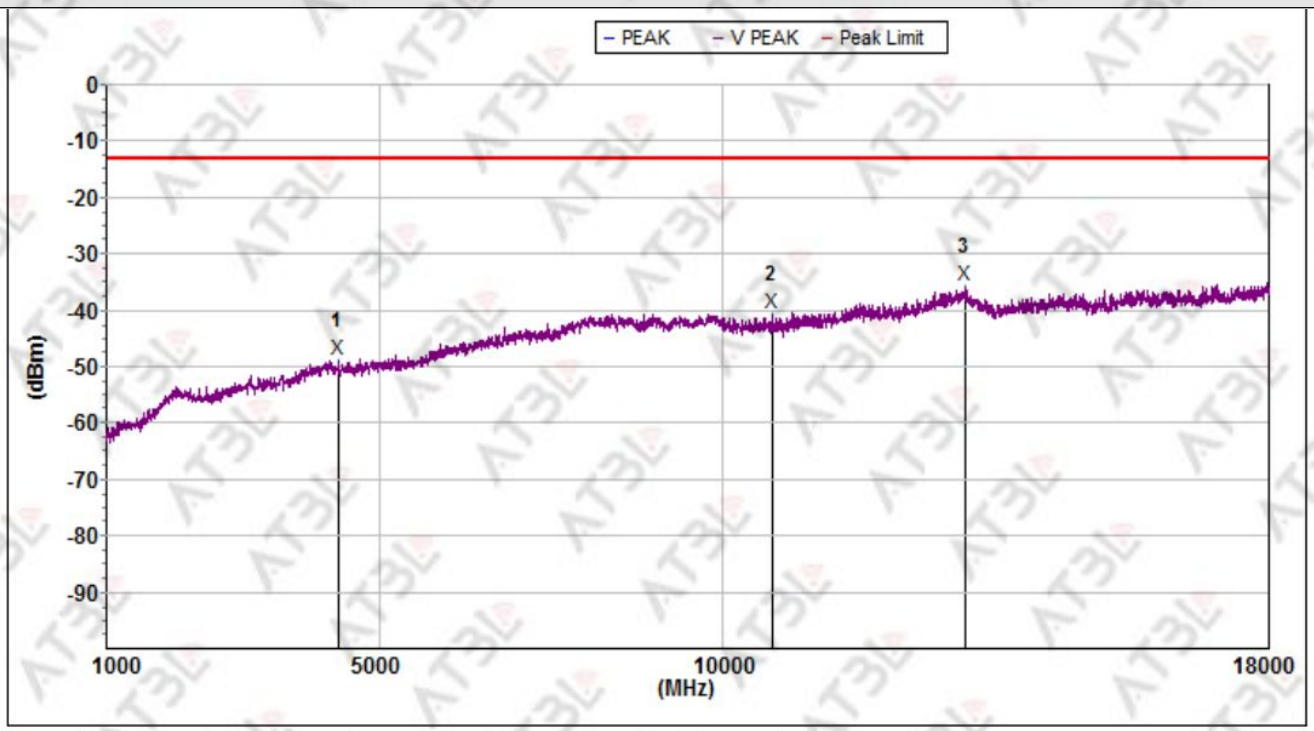
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	2701.000	-55.4	-13.0	42.4	19.17	150	-10.3	H
2	13508.000	-38.8	-13.0	25.8	0	150	10.0	H
3	16496.000	-35.2	-13.0	22.2	0	150	13.7	H

Test Mode	LTE Band 25_Traffic Mode_Low CH_Main antenna
Test Bandwidth	20MHz

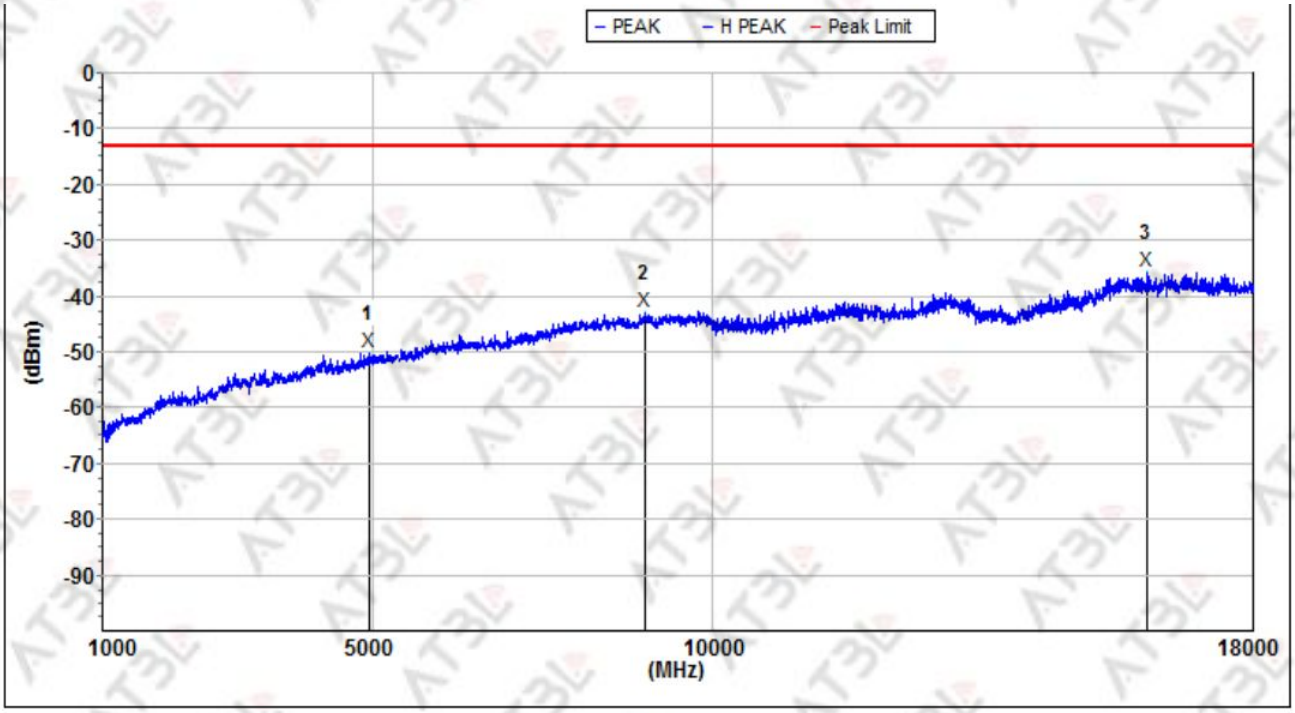
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	4393.000	-48.6	-13.0	35.6	207.92	150	-2.0	V
2	10744.000	-40.6	-13.0	27.6	359.98	150	8.2	V
3	13548.000	-35.6	-13.0	22.6	359.98	150	13.3	V

Test Mode	LTE Band 26_Traffic Mode_High CH_Main antenna
Test Bandwidth	15MHz

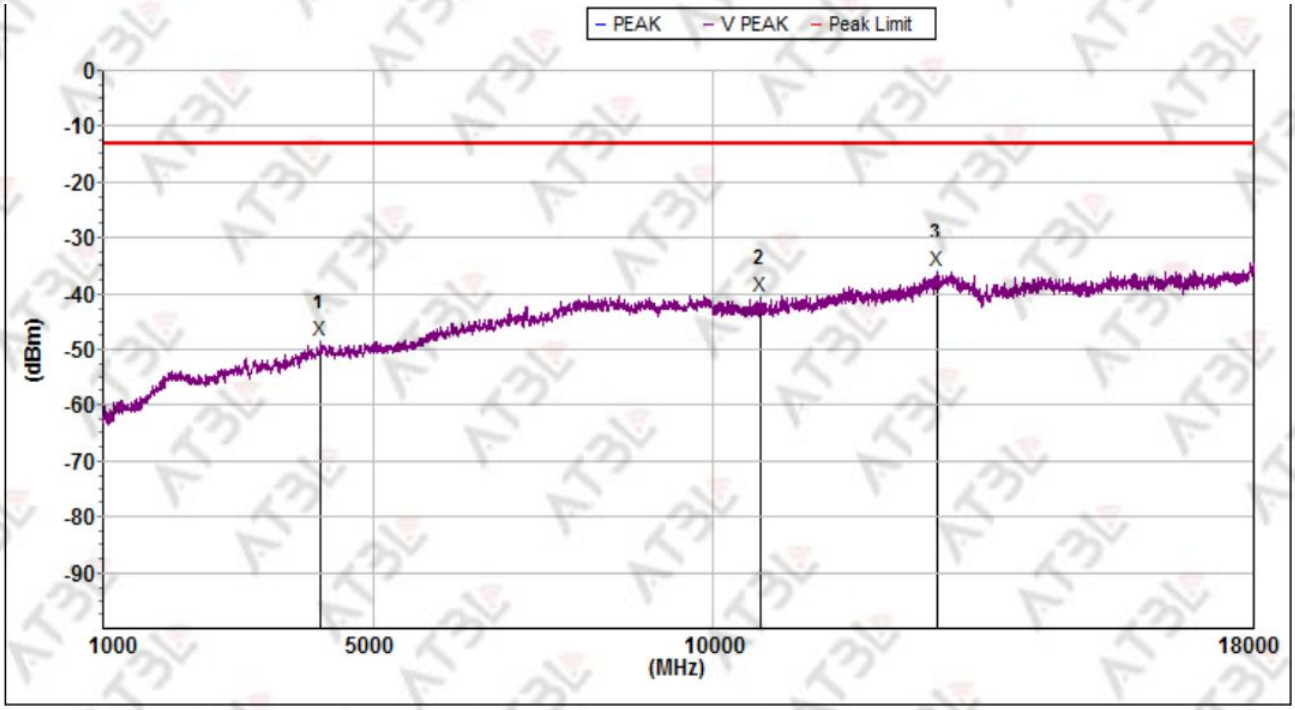
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	4955.500	-50.0	-13.0	37.0	238.92	150	-2.6	H
2	9028.000	-42.7	-13.0	29.7	57.67	150	4.4	H
3	16444.000	-35.4	-13.0	22.4	0	150	13.7	H

Test Mode	LTE Band 26_Traffic Mode_High CH_Main antenna
Test Bandwidth	15MHz

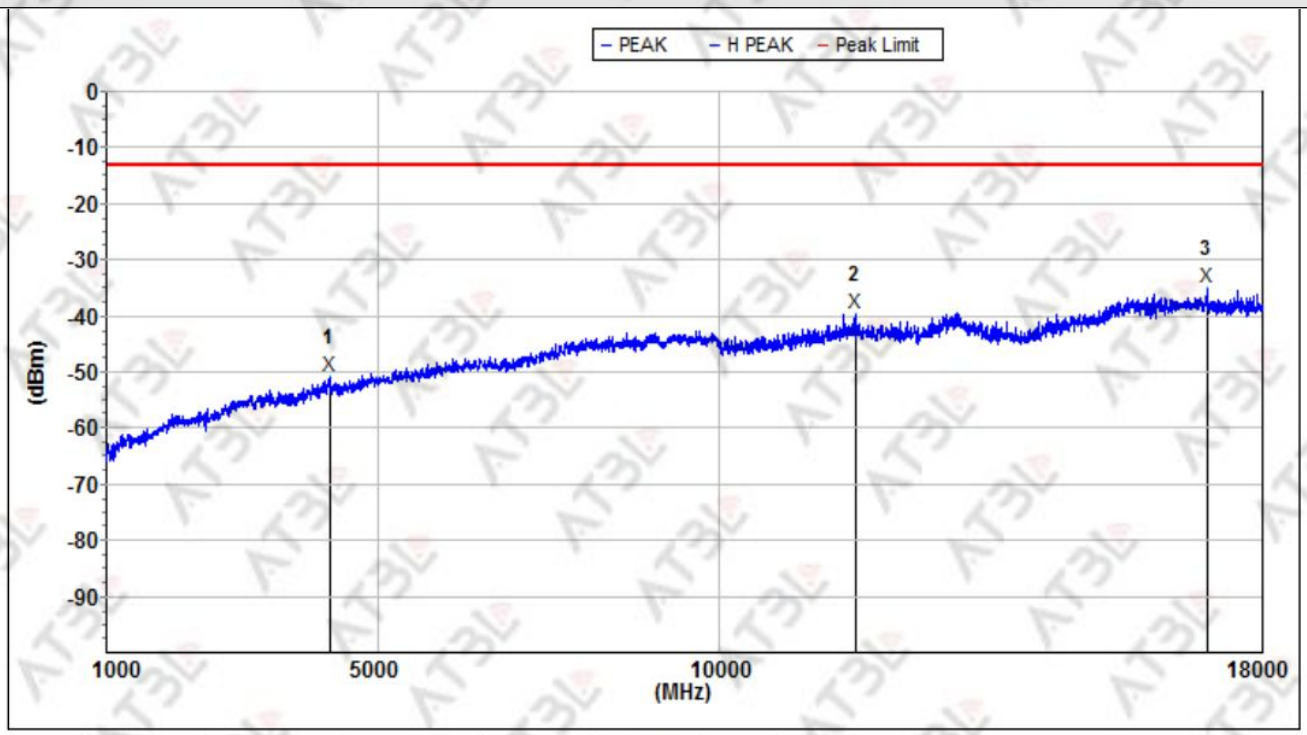
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	4213.000	-48.2	-13.0	35.2	25.67	150	-2.1	V
2	10704.000	-40.3	-13.0	27.3	359.98	150	8.1	V
3	13332.000	-35.7	-13.0	22.7	359.98	150	12.8	V

Test Mode	LTE Band 26_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	15MHz

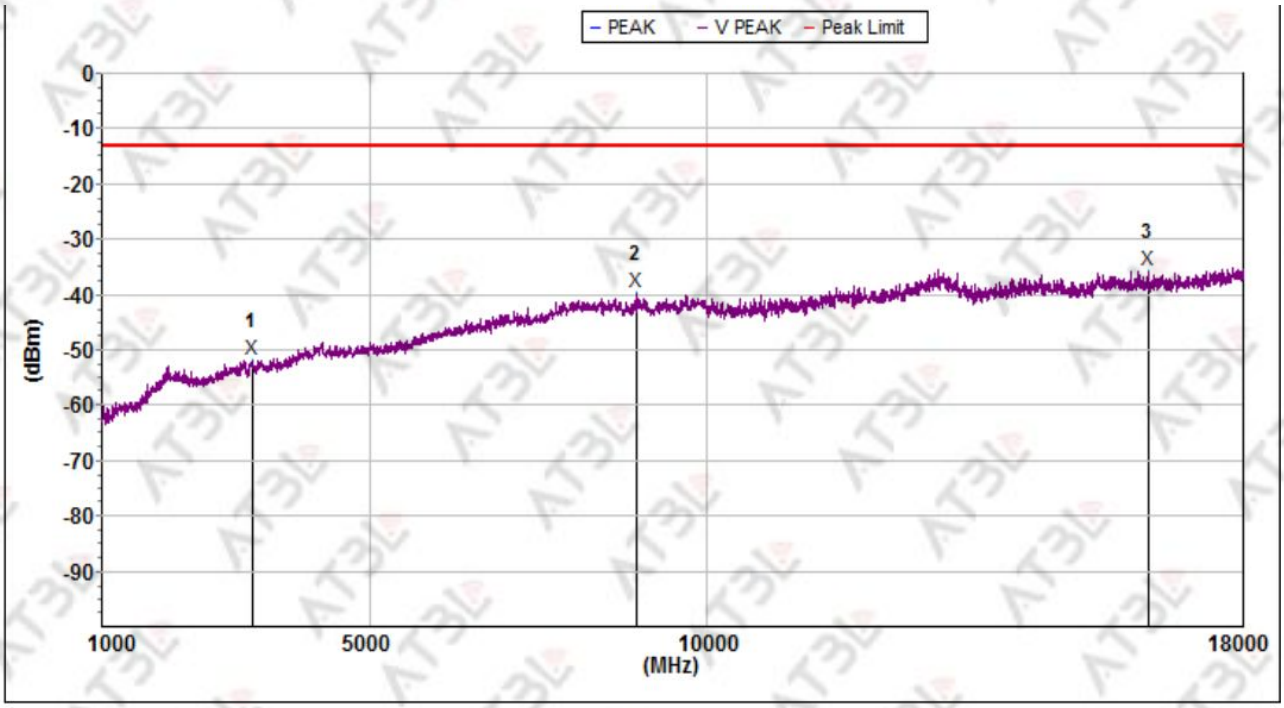
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	4285.000	-50.8	-13.0	37.8	210.22	150	-4.7	H
2	12008.000	-39.4	-13.0	26.4	0	150	8.2	H
3	17188.000	-34.9	-13.0	21.9	0	150	14.0	H

Test Mode	LTE Band 26_Traffic Mode_Mid CH_Main antenna
Test Bandwidth	15MHz

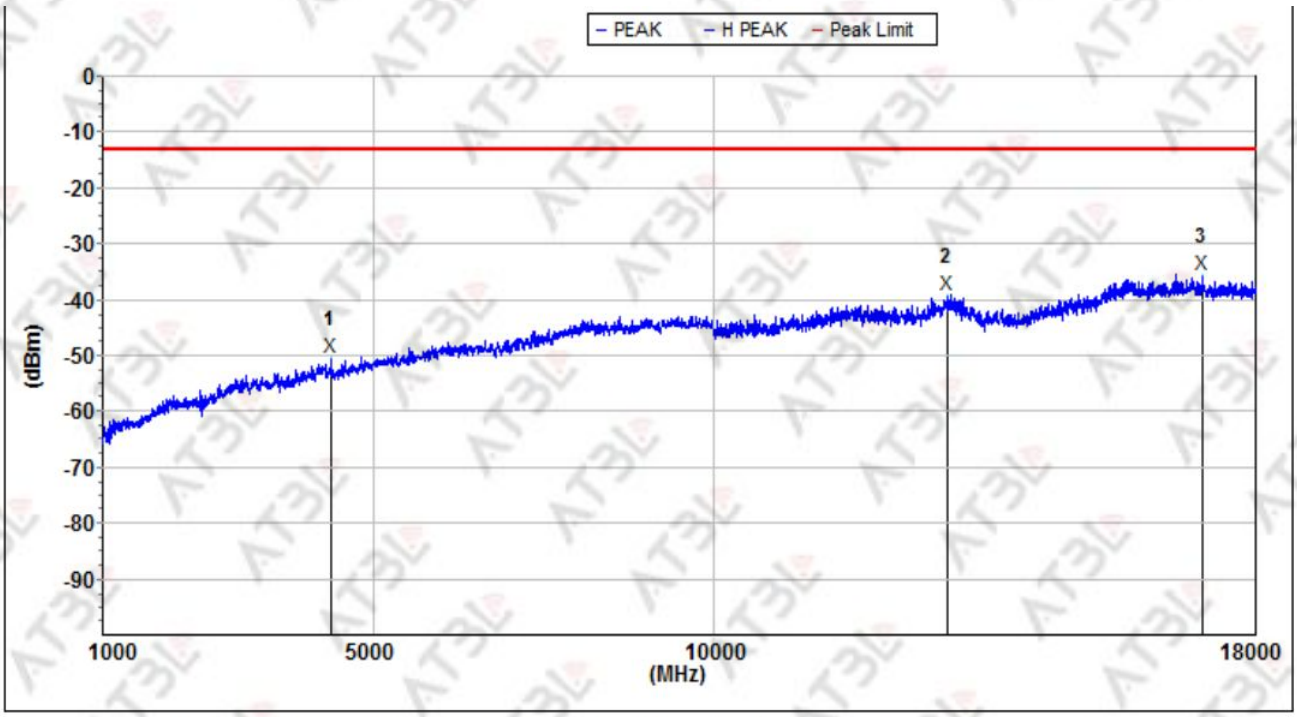
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3250.000	-51.6	-13.0	38.6	282.47	150	-6.2	V
2	8956.000	-39.6	-13.0	26.6	158.47	150	6.5	V
3	16588.000	-35.6	-13.0	22.6	359.93	150	13.9	V

Test Mode	LTE Band 26_Traffic Mode_Low CH_Main antenna
Test Bandwidth	15MHz

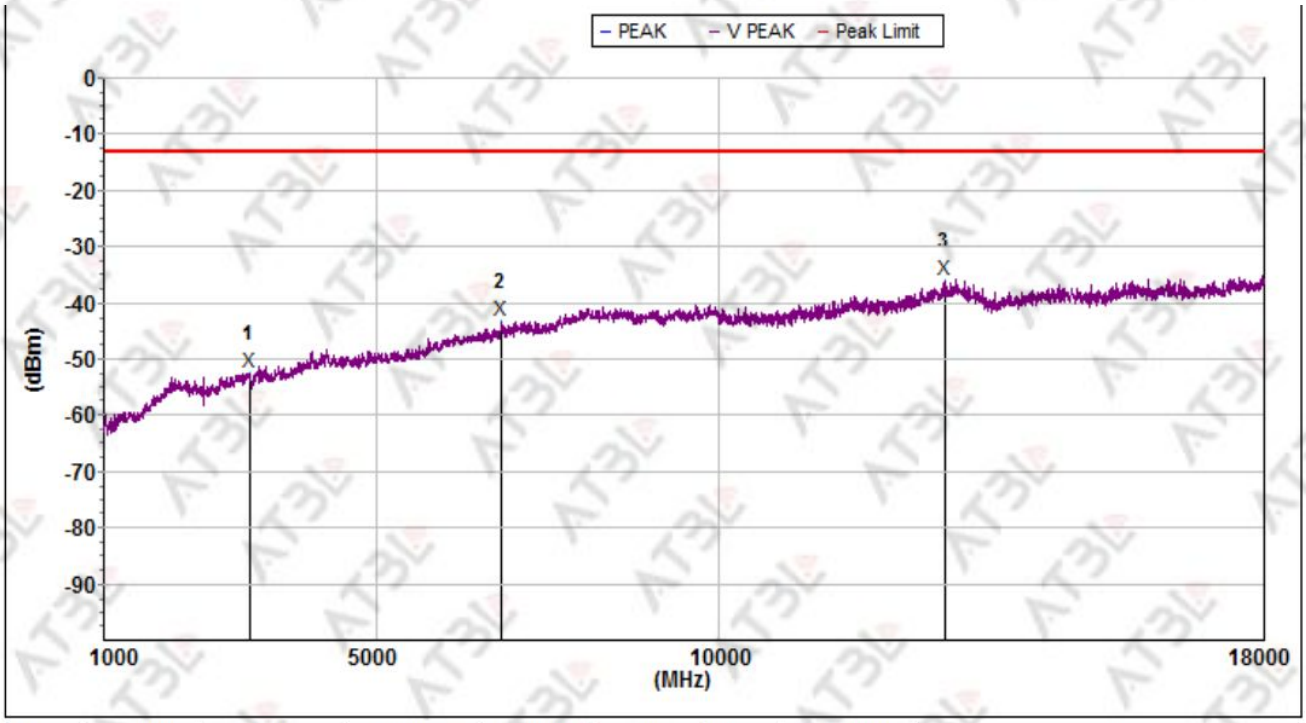
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	4366.000	-50.2	-13.0	37.2	139.62	150	-4.6	H
2	13448.000	-39.2	-13.0	26.2	0.2	150	9.9	H
3	17224.000	-35.5	-13.0	22.5	0.2	150	14.1	H

Test Mode	LTE Band 26_Traffic Mode_Low CH_Main antenna
Test Bandwidth	15MHz

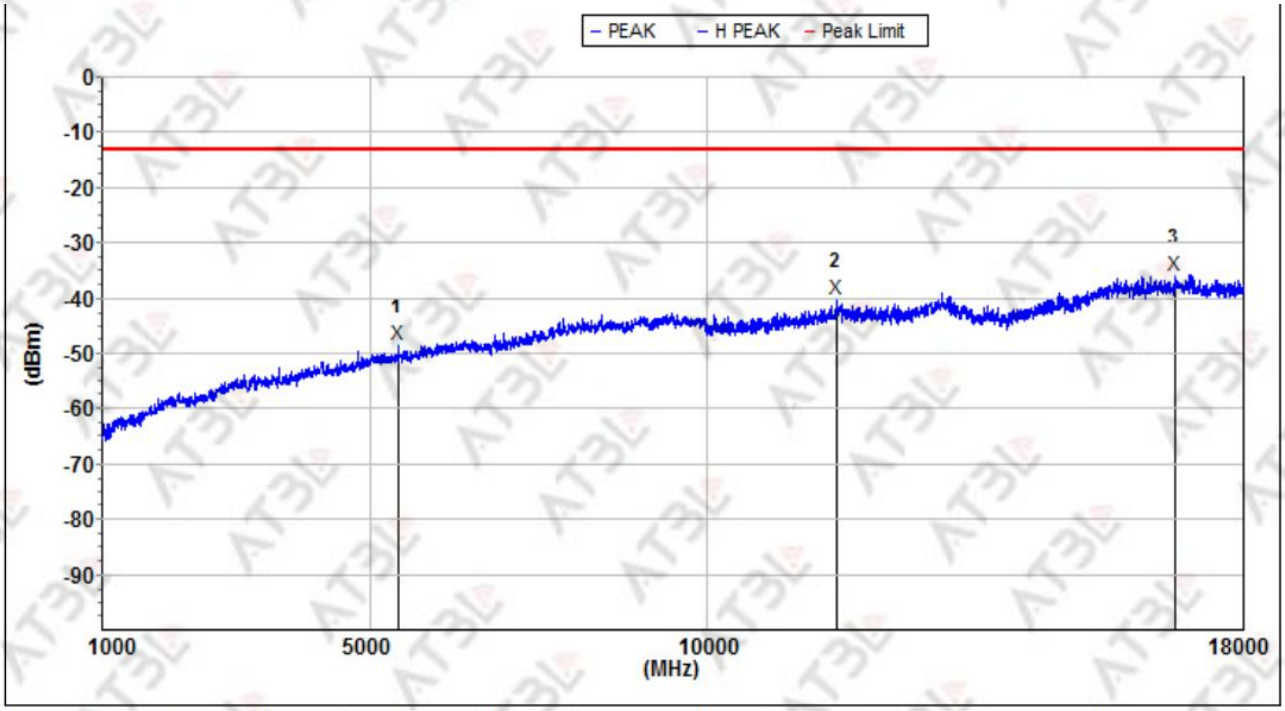
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3128.500	-52.2	-13.0	39.2	211.12	150	-6.2	V
2	6818.500	-43.2	-13.0	30.2	123.57	150	4.2	V
3	13332.000	-35.8	-13.0	22.8	359.71	150	12.8	V

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

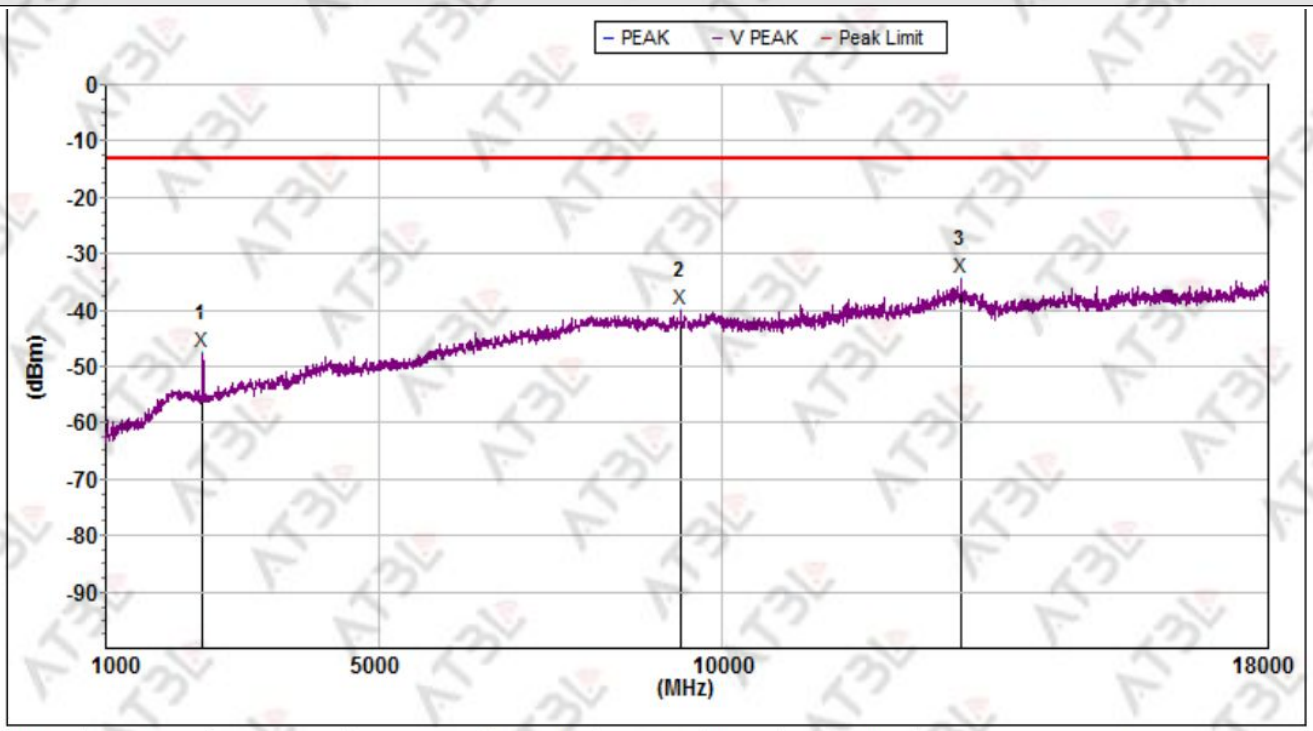
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	5410.000	-48.4	-13.0	35.4	270.1	150	-2.0	H
2	11936.000	-40.1	-13.0	27.1	0	150	8.1	H
3	16984.000	-35.8	-13.0	22.8	0	150	14.2	H

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

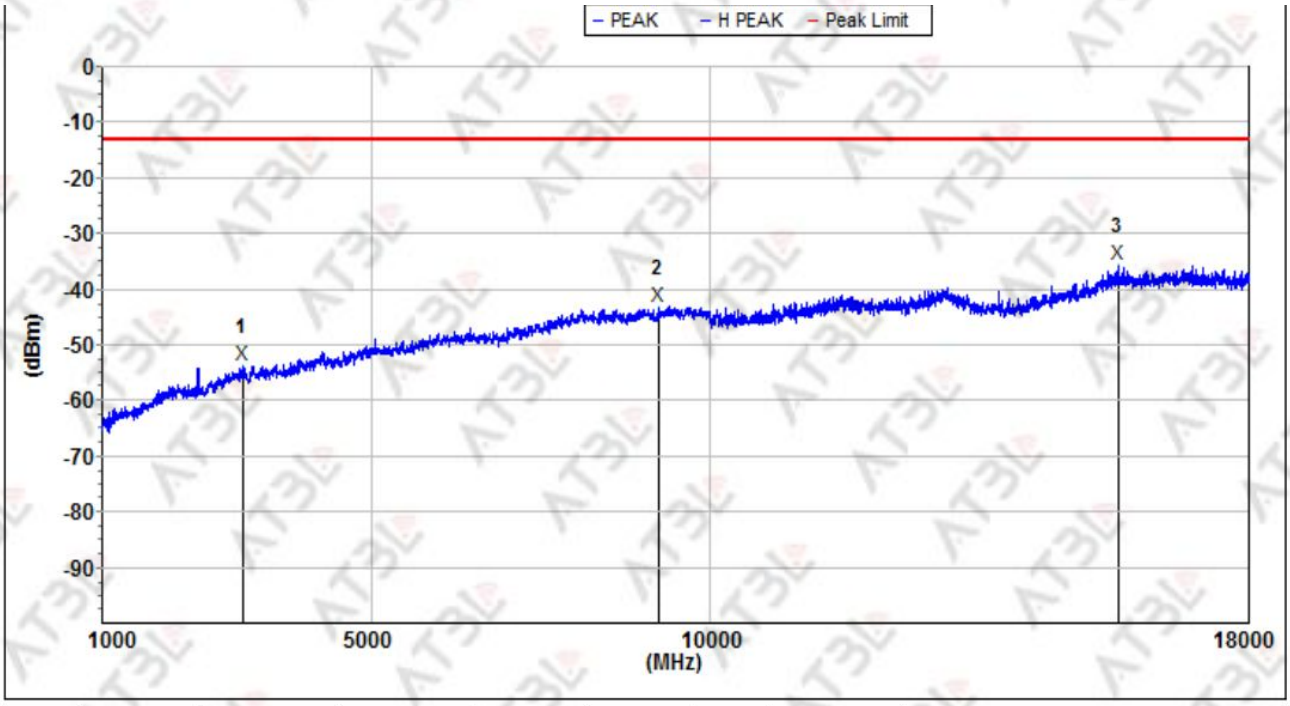
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	2422.000	-47.3	-13.0	34.3	45.32	150	-8.9	V
2	9415.000	-39.9	-13.0	26.9	142.52	150	7.0	V
3	13508.000	-34.3	-13.0	21.3	359.83	150	13.5	V

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

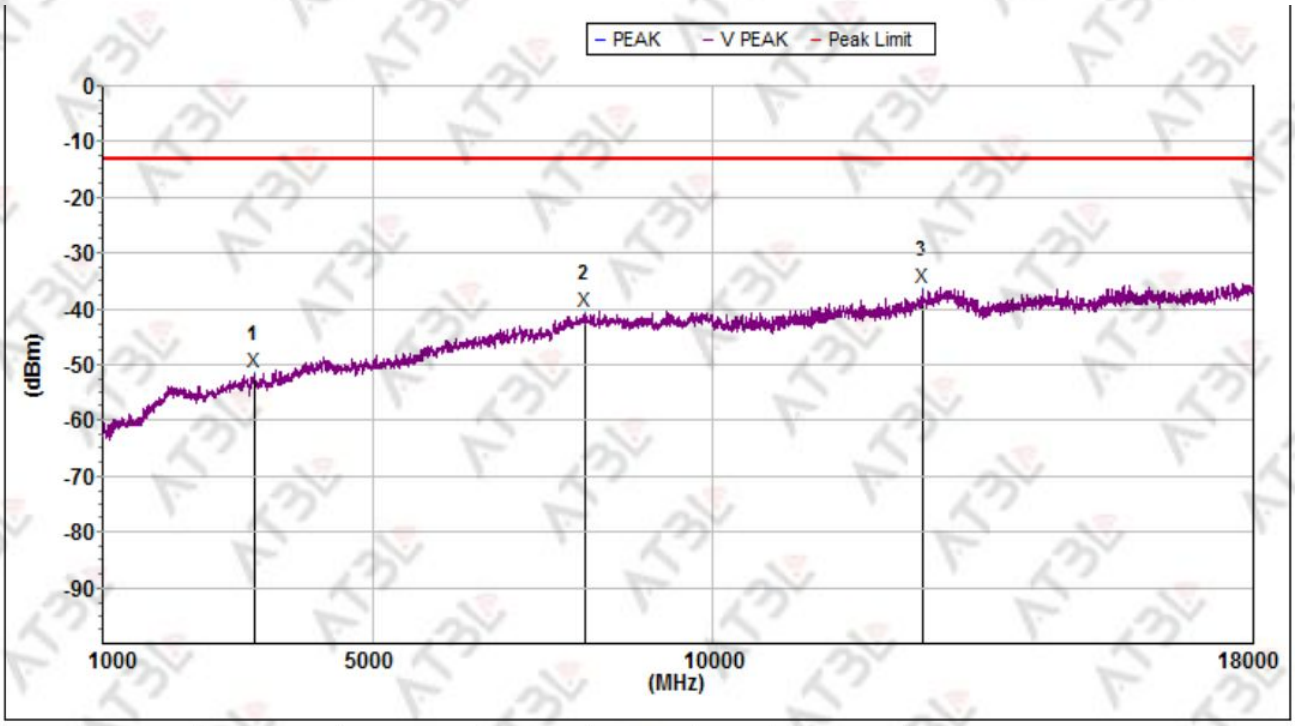
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3083.500	-53.7	-13.0	40.7	295.37	150	-8.2	H
2	9248.500	-43.1	-13.0	30.1	266.62	150	4.8	H
3	16072.000	-35.4	-13.0	22.4	0	150	13.9	H

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

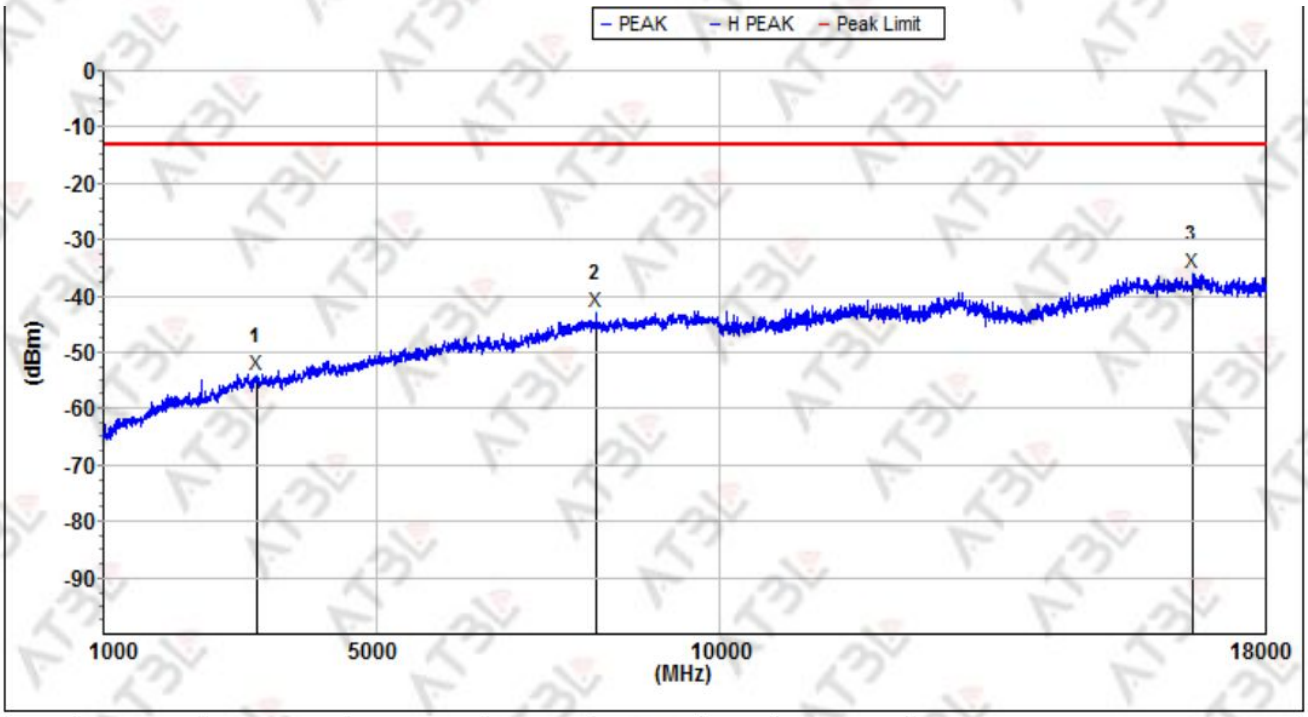
Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3241.000	-51.4	-13.0	38.4	36.37	150	-6.2	V
2	8119.000	-40.5	-13.0	27.5	144.72	150	7.2	V
3	13116.000	-36.1	-13.0	23.1	359.99	150	11.9	V

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

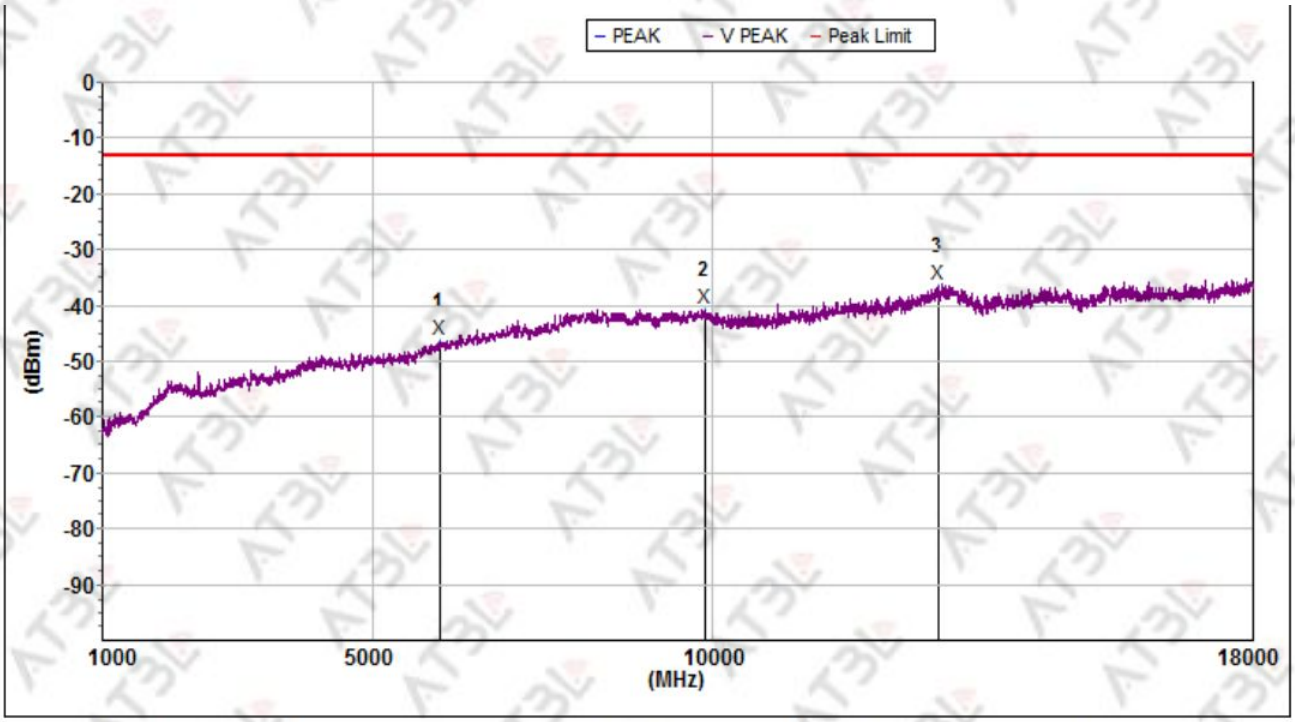
Horizontal



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	3245.500	-53.9	-13.0	40.9	259.32	150	-8.2	H
2	8200.000	-42.9	-13.0	29.9	96.92	150	4.0	H
3	16924.000	-36.0	-13.0	23.0	0	150	14.1	H

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

Vertical



Mk.	Freq.(MHz)	Level(dBm)	Limit(dBm)	Margin(dB)	Deg.(deg.)	Hi.(cm)	Factor(dB)	Pol.
Peak:								
1	5995.000	-46.1	-13.0	33.1	256.32	150	2.2	V
2	9901.000	-40.6	-13.0	27.6	305.12	150	7.6	V
3	13364.000	-36.3	-13.0	23.3	359.29	150	13.0	V

4. TEST SETUP PHOTOGRAPHS

Please refer to the Appendix J_Test Setup Template.

5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

External Photos Please refer to the Appendix K_ External Photos of the EUT.

Internal Photos Please refer to the Appendix K_ Internal Photos of the EUT.

※※※※※END OF THE REPORT※※※※※