FCC REPORT
(LTE)

Applicant:	BLU Products, Inc.
Address of Applicant:	10814 NW 33rd St # 100 Doral, FL 33172, USA

Equipment Under Test (EUT)

Product Name:	Smart Phone
Model No.:	B110DL
Trade mark:	BLU
FCC ID:	YHLBLUB110DL
Applicable standards:	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part 22 Subpart H FCC CFR Title 47 Part 24 Subpart E FCC CFR Title 47 Part 27 Subpart L & H & F& M & N FCC CFR Title 47 Part 90 Subpart S
Date of sample receipt:	09 Dec., 2021
Date of Test:	10 Dec., 2021 to 15 Jan., 2022
Date of report issued:	16 Jan., 2022
Test Result:	PASS*

*In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Bruce Zhang
Laboratory Manager

2. Version

Version No.	Date	Description
00	*16 Jan., 2022*	*Original*

Tested by: Mike.ou ***Date:*** *16 Jan., 2022*

Test Engineer

Reviewed by: Winner Zhang ***Date:*** *16 Jan., 2022*

Project Engineer

3. Contents

Page

4. Test Summary

Test Items	FCC Part Section(s)	Result
RF Output Power	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (c)(10) Part 27.50 (d)(4) Part 27.50 (h)(2)	Pass[2]
Peak-to-Average Power Ratio	Part 24.232 (d) Part 27.50 (d)(5)	Pass[1]
Modulation Characteristics	Part 2.1047	Pass[1]
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917 (b) Part 24.238 (b) Part 27.53 (g) Part 27.53 (h) Part 27.53 (m)	Pass[1]
Out of band emission at antenna terminals	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53 (m)	Pass[1]
Field strength of spurious radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53 (m)	Pass[2]
Frequency stability vs. temperature	Part 2.1055 (a)(1)(b) Part 22.355 Part 24.235 Part 27.54	Pass[1]
Frequency stability vs. voltage	Part 2.1055 (d)(2) Part 22.355 Part 24.235 Part 27.54	Pass[1]

Remark:

1. *Pass[1]: Items data are refer from the original report issued by SGS-CSTC Standards Technical Services, Co., Ltd.Shenzhen Branch.(Date of Test: 2019/10/17-2019/10/31).The detailed data refer to Appendix B.3 -LTE Band 2, Appendix B.4 -LTE Band 4, Appendix B.5 -LTE Band 5, Appendix B.6 -LTE Band 12, Appendix B.7 -LTE Band 13, Appendix B.8 -LTE Band 25, Appendix B.9 -LTE Band 26 814-824, Appendix B.10 -LTE Band 26 824-849, Appendix B.11 -LTE Band 41, Appendix B.12 -LTE Band 66, Appendix B.13 -LTE Band 71.*
2. *Pass[2]: These items are tested by JianYan Testing Group Shenzhen Co., Ltd.*
3. *The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB(Fundamental Frequency below 1GHz)/1.0dB(Fundamental Frequency above 1GHz) (provided by the customer).*

Test Method:	*ANSI/TIA-603-E-2016* *ANSI C63.26-2015*

5. General Information

5.1 Client Information

Applicant:	BLU Products, Inc.
Address:	10814 NW 33rd St # 100 Doral, FL 33172, USA
Manufacturer:	BLU Products, Inc.
Address:	10814 NW 33rd St # 100 Doral, FL 33172, USA

5.2 General Description of E.U.T.

Product Name:	Smart Phone		
Model No.:	B110DL		
Hardware Version:	V0.23		
Software Version:	PPR1.180610.011		
Operation Frequency range:	LTE Band 2: TX: 1850MHz-1910MHz RX: 1930MHz-1990MHz LTE Band 4: TX: 1710MHz-1755MHz RX: 2110MHz-2155MHz LTE Band 5: TX: 824MHz-849MHz RX: 869MHz-894MHz LTE Band 12: TX: 699MHz-716MHz RX: 729MHz-746MHz LTE Band 13: TX: 777MHz-787MHz RX: 746MHz-756MHz LTE Band 25: TX: 1850 MHz-1915 MHz RX: 1930 MHz-1995 MHz LTE Band 26: TX: 814MHz-849MHz RX: 859MHz-894MHz LTE Band 41: TX: 2496MHz-2690MHz RX: 2496MHz-2690MHz LTE Band 66: TX: 1710MHz-1780MHz RX: 2110MHz-2200MHz LTE Band 71: TX: 663MHz-698MHz RX: 617MHz-652MHz		
Modulation type:	☒QPSK	☒16QAM	☐64QAM
Antenna type:	Integrated Antenna		
Antenna gain:	LTE Band 2: -0.87 dBi(declare by Applicant) LTE Band 4: 2.05 dBi(declare by Applicant) LTE Band 5: -1.75 dBi(declare by Applicant) LTE Band 12: -2.30 dBi(declare by Applicant) LTE Band 13: -1.70 dBi(declare by Applicant) LTE Band 25: -0.74 dBi(declare by Applicant) LTE Band 26: -1.87 dBi(declare by Applicant) LTE Band 41: 2.36 dBi(declare by Applicant) LTE Band 66: 1.84 dBi(declare by Applicant) LTE Band 71: -1.89 dBi(declare by Applicant)		
Power supply:	Rechargeable Li-ion Battery DC3.8V, 3000mAh		
Test Sample Condition:	The applicant provided engineering samples for staying in continuously transmitting for testing.		

Operation Frequency List:

LTE Band 2 (1.4MHz)		LTE Band 2 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18607	1850.70	18615	1851.50
18608	1850.80	18616	1851.60
….	….	….	….
18899	1879.90	18899	1879.90
18900	1880.00	18900	1880.00
18901	1880.10	18901	1880.10
…	…	…	…
19193	1909.20	19185	1908.40
19194	1909.30	19186	1908.50
LTE Band 2 (5MHz)		LTE Band 2 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18625	1852.50	18650	1855.00
18626	1852.60	18651	1855.10
….	….	….	….
18899	1879.90	18899	1879.90
18900	1880.00	18900	1880.00
18901	1880.10	18901	1880.10
…	…	…	…
19175	1907.40	19150	1904.90
19176	1907.50	19151	1905.00
LTE Band 2 (15MHz)		LTE Band 2 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18675	1857.50	18700	1860.00
18676	1857.60	18701	1860.10
….	….	….	….
18899	1879.90	18899	1879.90
18900	1880.00	18900	1880.00
18901	1880.10	18901	1880.10
…	…	…	…
19125	1902.40	19100	1899.90
19126	1902.50	19101	1900.00

LTE Band 4 (1.4MHz)		LTE Band 4 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
19957	1710.70	19965	1711.50
19958	1710.80	19966	1711.60
….	….	….	….
20174	1732.40	20174	1732.40
20175	1732.50	20175	1732.50
20176	1732.60	20176	1732.60
…	…	…	…
20392	1754.20	20384	1753.40
20393	1754.30	20385	1753.50
LTE Band 4 (5MHz)		LTE Band 4 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
19975	1712.50	20000	1715.00
19976	1712.60	20001	1715.10
….	….	….	….
20174	1732.40	20174	1732.40
20175	1732.50	20175	1732.50
20176	1732.60	20176	1732.60
…	…	…	…
20374	1752.40	20349	1749.90
20375	1752.50	20350	1750.00
LTE Band 4 (15MHz)		LTE Band 4 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20025	1717.50	20050	1720.00
20026	1717.60	20051	1720.10
….	….	….	….
20174	1732.40	20174	1732.40
20175	1732.50	20175	1732.50
20176	1732.60	20176	1732.60
…	…	…	…
20324	1747.40	20299	1744.90
20325	1747.50	20300	1745.00

LTE Band 5 (1.4MHz)		LTE Band 5 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20407	824.70	20415	825.50
20408	824.80	20416	825.60
….	….	….	….
20524	836.40	20524	836.40
20525	836.50	20525	836.50
20526	836.60	20526	836.60
…	…	…	…
20642	848.20	20634	847.40
20643	848.30	20635	847.50
LTE Band 5 (5MHz)		LTE Band 5 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20425	826.50	20450	829.00
20426	826.60	20451	829.10
….	….	….	….
20524	836.40	20524	836.40
20525	836.50	20525	836.50
20526	836.60	20526	836.60
…	…	…	…
20624	846.40	20599	839.90
20625	846.50	20600	844.00

LTE Band 12 (1.4MHz)		LTE Band 12 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23017	699.70	23025	700.50
23756	699.80	23026	700.60
….	….	….	….
23094	707.40	23094	707.40
23095	707.50	23095	707.50
23096	707.60	23096	707.60
…	…	…	…
23172	715.20	23164	714.40
23173	715.30	23165	714.50
LTE Band 12 (5MHz)		LTE Band 12 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23035	701.50	23060	704.00
23036	701.60	23061	704.10
….	….	….	….
23094	707.40	23094	707.40
23095	707.50	23095	707.50
23096	707.60	23096	707.60
…	…	…	…
23154	713.40	23129	710.90
23155	713.50	23130	711.00

LTE Band 13 (5MHz)		LTE Band 13 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23205	779.50	/	/
23206	779.60	/	/
….	….	/	/
23229	781.90	/	/
23230	782.00	23230	782.00
23231	782.10	/	/
…	…	/	/
23255	784.50	/	/
23256	784.60	/	/

LTE Band 25 (1.4MHz)		LTE Band 25 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
26047	1850.70	26055	1851.50
26048	1850.80	26056	1851.60
….	….	….	….
26364	1882.40	26367	1882.40
26365	1882.50	26365	1882.50
26366	1882.60	26366	1882.60
…	…	…	…
26682	1914.20	26676	1913.40
26683	1914.30	26675	1913.50
LTE Band 25 (5MHz)		LTE Band 25 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
26065	1852.50	26090	1855.00
26066	1852.60	26091	1855.10
….	….	….	….
26364	1882.40	26364	1882.40
26365	1882.50	26365	1882.50
26366	1882.60	26366	1882.60
…	…	…	…
26664	1912.40	26639	1909.90
26665	1912.50	26640	1910.00
LTE Band 25 (15MHz)		LTE Band 25 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
26115	1857.50	26140	1860.00
26116	1857.60	26139	1860.10
….	….	….	….
26364	1882.40	26364	1882.40
26365	1882.50	26365	1882.50
36366	1882.60	26366	1882.60
…	…	…	…
26614	1907.40	26589	1904.90
26615	1907.50	26590	1905.00

LTE Band 26 (1.4MHz)		LTE Band 26 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
26697	814.70	26705	815.50
26698	814.80	26706	815.60
….	….	….	….
26864	831.40	26864	831.40
26865	831.50	26865	831.50
26866	831.60	26866	831.60
…	…	…	…
27032	848.20	27024	847.40
27033	848.30	27025	847.50
LTE Band 26 (5MHz)		LTE Band 26 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
26715	816.50	26750	820.00
26716	816.60	26760	820.10
….	….	….	….
26864	831.40	26864	831.40
26865	831.50	26865	831.50
26866	831.60	26866	831.60
…	…	…	…
27014	846.40	26980	843.90
27015	846.50	26990	844.00
LTE Band 26 (15MHz)			
Channel	Frequency (MHz)		
26775	822.50		
26776	822.60		
….	….		
26864	831.40		
26865	831.50		
26866	831.60		
…	…		
26964	841.40		
26965	841.50		

LTE Band 41 (5MHz)		LTE Band 41 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
39675	2498.50	39700	2501.00
39676	2498.60	39701	2501.10
….	….	….	….
40619	2593.90	40619	2593.90
40620	2593.00	40620	2593.00
40621	2593.10	40621	2593.10
…	…	…	…
41564	2687.40	41539	2684.90
41565	2687.50	41540	2685.00
LTE Band 41 (15MHz)		LTE Band 41 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
39725	2503.50	39750	2506.00
39726	2503.60	39751	2506.10
….	….	….	….
40619	2593.90	40619	2593.90
40620	2593.00	40620	2593.00
40621	2593.10	40621	2593.10
…	…	…	…
41514	2682.40	41489	2679.90
41515	2682.50	41490	2680.00

LTE Band 66 (1.4MHz)		LTE Band 66 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
131979	1710.70	131987	1711.50
131980	1710.80	131988	1711.60
….	….	….	….
132321	1744.90	132321	1744.90
132322	1745.00	132322	1745.00
132323	1745.10	132323	1745.10
…	…	…	…
132664	1779.20	132656	1778.40
132665	1779.30	132657	1778.50
LTE Band 66 (5MHz)		LTE Band 66 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
131997	1712.50	132022	1715.00
131998	1712.60	132023	1715.10
….	….	….	….
132321	1744.90	132321	1744.90
132322	1745.00	132322	1745.00
132323	1745.10	132323	1745.10
…	…	…	…
136246	1777.40	132621	1774.90
136247	1777.50	132622	1775.00
LTE Band 66 (15MHz)		LTE Band 66 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
132047	1717.50	132072	1720.00
132048	1717.60	132073	1720.10
….	….	….	….
132321	1744.90	132321	1744.90
132322	1745.00	132322	1745.00
132323	1745.10	132323	1745.10
…	…	…	…
132596	1772.40	132571	1769.90
132597	1772.50	132572	1770.00

LTE Band 71 (5MHz)		LTE Band 71 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
133147	665.50	133172	668.00
133148	665.60	133173	668.10
….	….	….	….
133296	680.40	133296	680.40
133297	680.50	133297	680.50
133298	680.60	133298	680.60
…	…	…	…
133446	695.40	133421	692.90
133447	695.50	133422	693.00
LTE Band 71 (15MHz)		LTE Band 71 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
133197	670.50	133222	673.00
133198	670.60	133223	673.10
….	….	….	….
133296	680.40	133321	682.90
133297	680.50	133322	683.00
133298	680.60	133323	683.10
…	…	…	…
133396	690.40	133371	687.90
133397	690.50	133372	688.00

Regards to the operating frequency range, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channels as below:

LTE Band 2 (1.4MHz)			LTE Band 2 (3MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	18607	1850.70	Lowest channel	18615	1851.50
Middle channel	18900	1880.00	Middle channel	18900	1880.00
Highest channel	19193	1909.30	Highest channel	19185	1908.50
LTE Band 2 (5MHz)			LTE Band 2 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	18625	1852.50	Lowest channel	18650	1855.00
Middle channel	18900	1880.00	Middle channel	18900	1880.00
Highest channel	19175	1907.50	Highest channel	19150	1905.00
LTE Band 2 (15MHz)			LTE Band 2 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	18675	1857.50	Lowest channel	18700	1860.00
Middle channel	18900	1880.00	Middle channel	18900	1880.00
Highest channel	19125	1902.50	Highest channel	19100	1900.00

LTE Band 4 (1.4MHz)			LTE Band 4 (3MHz)		
Channel:		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	19957	1710.70	Lowest channel	19965	1711.50
Middle channel	20175	1732.50	Middle channel	20175	1732.50
Highest channel	20393	1754.30	Highest channel	20385	1753.50
LTE Band 4 (5MHz)			LTE Band 4 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	19975	1712.50	Lowest channel	20000	1715.00
Middle channel	20175	1732.50	Middle channel	20175	1732.50
Highest channel	20375	1752.50	Highest channel	20350	1750.00
LTE Band 4 (15MHz)			LTE Band 4 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20025	1717.50	Lowest channel	20050	1720.00
Middle channel	20175	1732.50	Middle channel	20175	1732.50
Highest channel	20325	1747.50	Highest channel	20300	1745.00

LTE Band 5 (1.4MHz)			LTE Band 5 (3MHz)		
Channel:		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20407	824.70	Lowest channel	20415	825.50
Middle channel	20525	836.50	Middle channel	20525	836.50
Highest channel	20643	848.30	Highest channel	20635	847.50
LTE Band 5 (5MHz)			LTE Band 5 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20425	826.50	Lowest channel	20450	829.00
Middle channel	20525	836.50	Middle channel	20525	836.50
Highest channel	20625	846.50	Highest channel	20600	844.00

LTE Band 12(1.4MHz)			LTE Band 12(3MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	23017	699.70	Lowest channel	23025	700.50
Middle channel	23095	707.50	Middle channel	23095	707.50
Highest channel	23173	715.30	Highest channel	23165	714.50
LTE Band 12(5MHz)			LTE Band 12(10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	23035	701.50	Lowest channel	23060	704.00
Middle channel	23095	707.50	Middle channel	23095	707.50
Highest channel	23155	713.50	Highest channel	23130	711.00

LTE Band 13(5MHz)			LTE Band 13(10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	23205	779.5	Lowest channel	/	/
Middle channel	23230	782.0	Middle channel	23230	782.00
Highest channel	23255	784.5	Highest channel	/	/

LTE Band 25 (1.4MHz)			LTE Band 25 (3MHz)		
Channel:		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	26047	1850.70	Lowest channel	26055	1851.50
Middle channel	26365	1882.50	Middle channel	26365	1882.50
Highest channel	26683	1914.30	Highest channel	26675	1913.50
LTE Band 25 (5MHz)			LTE Band 25 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	26065	1852.50	Lowest channel	26090	1855.00
Middle channel	26365	1882.50	Middle channel	26365	1882.50
Highest channel	26665	1912.50	Highest channel	26640	1910.00
LTE Band 25 (15MHz)			LTE Band 25 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	26115	1857.50	Lowest channel	26140	1860.00
Middle channel	26365	1882.50	Middle channel	26365	1882.50
Highest channel	26615	1907.50	Highest channel	26590	1905.00

LTE Band 26(Part 22) includes LTE Band 5:

LTE Band 26(1.4MHz) for Part 22			LTE Band 26(1.4MHz) for Part 90		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	26797	824.7	Lowest channel	26697	814.7
Middle channel	26915	836.5	Middle channel	26740	819.0
Highest channel	27033	848.3	Highest channel	26783	823.3
LTE Band 26(3MHz) for Part 22			LTE Band 26(3MHz) for Part 90		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	26805	825.5	Lowest channel	26705	815.5
Middle channel	26915	836.5	Middle channel	26740	819.0
Highest channel	27025	847.5	Highest channel	26775	822.5
LTE Band 26(5MHz) for Part 22			LTE Band 26(5MHz) for Part 90		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	26815	826.5	Lowest channel	26715	816.5
Middle channel	26915	836.5	Middle channel	26740	819.0
Highest channel	27015	846.5	Highest channel	26765	821.5
LTE Band 26(10MHz) for Part 22			LTE Band 26(10MHz) for Part 90		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	26840	829.0	Lowest channel	/	/
Middle channel	26915	836.5	Middle channel	26740	819.0
Highest channel	26990	844.0	Highest channel	/	/
LTE Band 26(15MHz) for Part 22H					
Channel		Frequency (MHz)			
Lowest channel	26865	831.5			
Middle Channel	26915	836.5			
Highest channel	26965	841.5			

LTE Band 41 (5MHz)			LTE Band 41 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	39675	2498.50	Lowest channel	39700	2501.00
Middle channel	40620	2593.00	Middle channel	40620	2593.00
Highest channel	41565	2687.50	Highest channel	41540	2685.00
LTE Band 41 (15MHz)			LTE Band 41 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	39725	2503.50	Lowest channel	39750	2506.00
Middle channel	40620	2593.00	Middle channel	40620	2593.00
Highest channel	41515	2682.50	Highest channel	41490	2680.00

LTE Band 66 includes LTE Band 4:

LTE Band 66 (1.4MHz)			LTE Band 66 (3MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	131979	1710.7	Lowest channel	131987	1711.5
Middle channel	132322	1745.0	Middle channel	132322	1745.0
Highest channel	132665	1779.3	Highest channel	132657	1778.5
LTE Band 66 (5MHz)			LTE Band 66 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	131997	1712.5	Lowest channel	132022	1715.0
Middle channel	132322	1745.5	Middle channel	132322	1745.0
Highest channel	132647	1777.5	Highest channel	132622	1775.0
LTE Band 66 (15MHz)			LTE Band 66 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	132047	1717.5	Lowest channel	132072	1720.0
Middle channel	132322	1745.0	Middle channel	132322	1745.0
Highest channel	132597	1772.5	Highest channel	132572	1770.0

LTE Band 71 (5MHz)			LTE Band 71 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	133147	665.5	Lowest channel	133172	668.0
Middle channel	133297	680.5	Middle channel	133297	680.5
Highest channel	133447	695.5	Highest channel	133422	693.0
LTE Band 71 (15MHz)			LTE Band 71 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	133197	670.5	Lowest channel	133222	673.0
Middle channel	133297	680.5	Middle channel	133322	683.0
Highest channel	133397	690.5	Highest channel	133372	688.0

5.3 Test environment and mode, and test samples plans

Operating Environment:	
Temperature:	Normal: 15℃ ~ 35℃
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.8Vdc
Test mode:	
LTE QPSK mode	Keep the EUT communication with simulated station in QPSK mode
LTE 16-QAM mode	Keep the EUT communication with simulated station in 16-QAM mode
Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report.	

5.4 Description of Support Units

Test Equipment	Manufacturer	Model No.	Serial No.
Simulated Station	Anritsu	MT8820C	6201026545
Simulated Station	Rohde & Schwarz	CMW500	108209

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Additions to, deviations, or exclusions from the method

No

5.8 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.
Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com

5.10 Test Instruments list

Radiated Emission:					
Test Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-044	03-07-2021	03-06-2022
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Simulated Station	Anritsu	MT8820C	6201026545	03-03-2021	03-02-2022
Simulated Station	Rohde & Schwarz	CMW500	108209	07-02-2021	07-01-2022
Band Reject Filter Group	Tonscend	JS0806	21B8060367	04-06-2021	04-05-2022
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022
EMI Test Software	Tonscend	TS+	Version:3.0.0.1		

Conducted Method:					
Test Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Date (mm-dd-yy)**	**Cal. Due date (mm-dd-yy)**
Simulated Station	Rohde & Schwarz	CMW500	MY57431500	07-02-2021	07-01-2022
DC Power Supply	Keysight	E3642A	MY60296194	10-25-2021	10-24-2022
Temperature Humidity Chamber	HONG ZHI	CZ-A-80D	ZH210166	03-19-2021	03-18-2022
RF Control Unit	Tonscend	JS0806-1	21F8060438	N/A	
Test Software	Tonscend	TS+	Version: 2.6.9.0526		

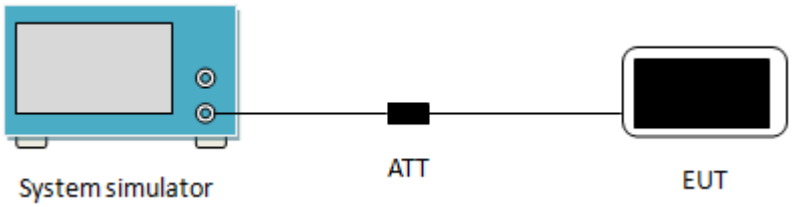
6. Test results

6.1 Conducted Output Power

6.1.1 Re-test statement

Re-test statement: The EUT is operating at the same power level with the original testing of SGS-CSTC Standards Technical Services, Co Ltd. Shenzhen Branch.

6.1.2 Test results

Test Requirement:	Part 22.913(a)(5), Part 24.232(c), part 27.50(c)(10), Part 27.50(d)(4), Part 27.50 (h)(2), Part 90.635 (h)(b)
Limit:	LTE Band 2: 2W, LTE Band 4: 1W, LTE Band 5: 7W, LTE Band 12: 3W, LTE Band 13: 3W, LTE Band 17: 3W, LTE Band 25: 2W, LTE Band 26(Part 22): 7W, LTE Band 26(Part 90): 100W; LTE Band 41: 2W, LTE Band 66: 1W LTE Band 71: 3W
Test Setup:	
Test Procedure:	The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMW500. Transmitter output power was read off in dBm.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

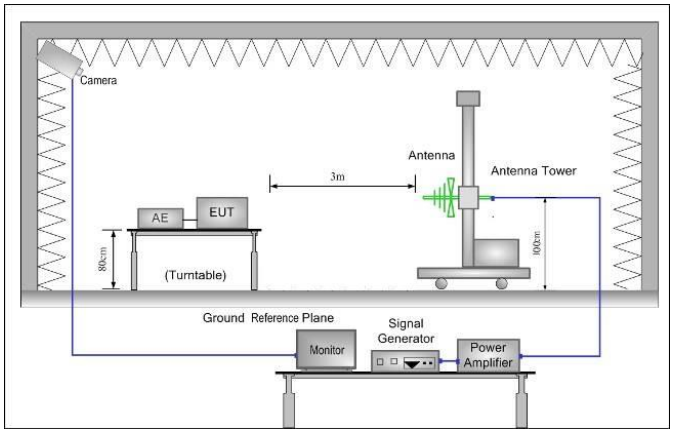
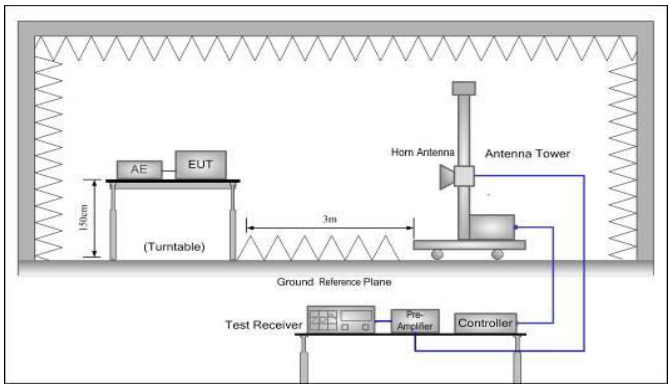
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band2	20MHz	QPSK	18700	1RB#0	22.24	22.33
Band2	20MHz	QPSK	18900	1RB#0	22.18	22.49
Band2	20MHz	QPSK	19100	1RB#0	22.23	22.40
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band4	20MHz	QPSK	20050	1RB#0	23.37	23.11
Band4	20MHz	QPSK	20175	1RB#0	23.73	23.40
Band4	20MHz	QPSK	20300	1RB#0	23.37	23.05
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band5	10MHz	QPSK	20450	1RB#0	23.80	23.19
Band5	10MHz	QPSK	20525	1RB#0	23.77	23.39
Band5	10MHz	QPSK	20600	1RB#0	23.85	23.39
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band12	10MHz	QPSK	23060	1RB#0	23.60	23.32
Band12	10MHz	QPSK	23095	1RB#0	23.65	23.31
Band12	10MHz	QPSK	23130	1RB#0	23.70	23.49
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band13	10MHz	QPSK	23230	1RB#0	22.81	22.41
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band25	20MHz	QPSK	26140	1RB#0	23.02	22.62
Band25	20MHz	QPSK	26365	1RB#0	23.36	22.88
Band25	20MHz	QPSK	26590	1RB#0	23.10	22.72
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band26 (814-824)	10MHz	QPSK	26740	1RB#0	23.62	23.18

BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band26 (824-849)	15MHz	QPSK	26865	1RB#0	23.87	23.56
Band26 (824-849)	15MHz	QPSK	26915	1RB#0	23.68	23.49
Band26 (824-849)	15MHz	QPSK	26965	1RB#0	23.68	23.33
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band41	20MHz	QPSK	39750	1RB#0	23.98	23.57
Band41	20MHz	QPSK	40620	1RB#0	24.21	24.02
Band41	20MHz	QPSK	41490	1RB#0	24.62	24.28
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band66	20MHz	QPSK	132072	1RB#0	23.43	23.16
Band66	20MHz	QPSK	132322	1RB#0	23.65	23.72
Band66	20MHz	QPSK	132572	1RB#0	23.23	23.08
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band71	20MHz	QPSK	133222	1RB#0	22.26	22.43
Band71	20MHz	QPSK	133322	1RB#0	22.54	22.78
Band71	20MHz	QPSK	133372	1RB#0	22.10	22.27

Remark:

	The Original Reports	Re-Test Reports
File name:	test report LTE	Test Report LTE rev1
Test location:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	JianYan Testing Group Shenzhen Co., Ltd.
The output power is re-test at JianYan Testing Group Shenzhen Co., Ltd.		

6.2 Field strength of spurious radiation measurement

Test Requirement:	Part 22.917(a), Part 24.238 (a), Part 27.53 (c), part 27.53(g), part 27.53(h),Part 27.53(m), Part 90.691(a)
Limit:	LTE Band 2 & 4 & 5& 12 & 13 & 25 & 26(Part 22) & 66 & 71: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 $\log_{10}$(P) dB (-13 dBm). LTE Band 41: 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. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. LTE Band 26(Part 90): For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.
Test setup:	Below 1GHz  Above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

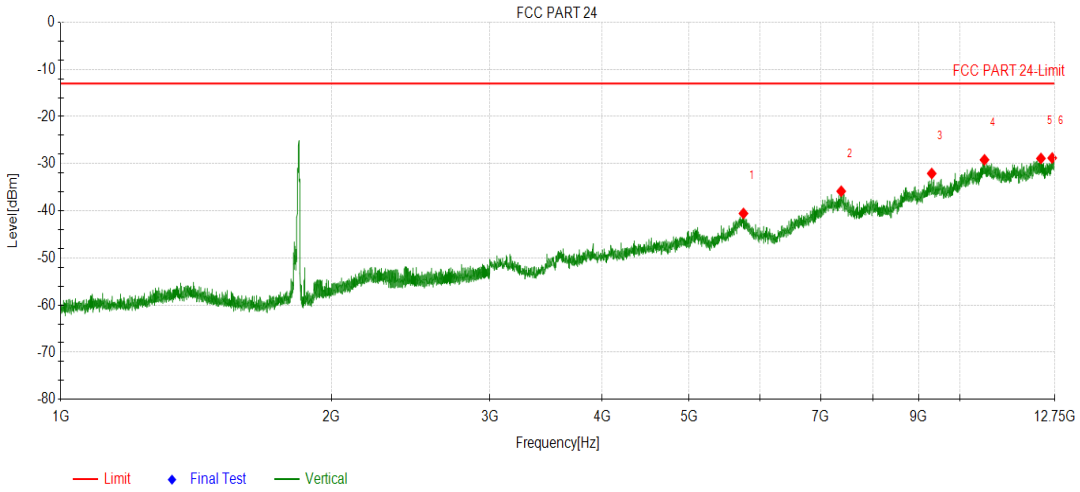
	2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB)
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details.
Environment:	Temp: 21.2℃, Huni: 52%
Test results:	Passed

Measurement Data:

Remark: During the test, use Band Reject Filter Group to filter out LTE Band 2 & 5 & 12 & 13 & 25 & 26 & 71 fundamental signal

Above 1GHz:

Product Name:	Smart Phone	**Product model:**	B110DL
Test By:	Mike	**Test mode:**	Band 2 Tx Low CH
Test Voltage:	DC 3.8V	**Polarization:**	Vertical

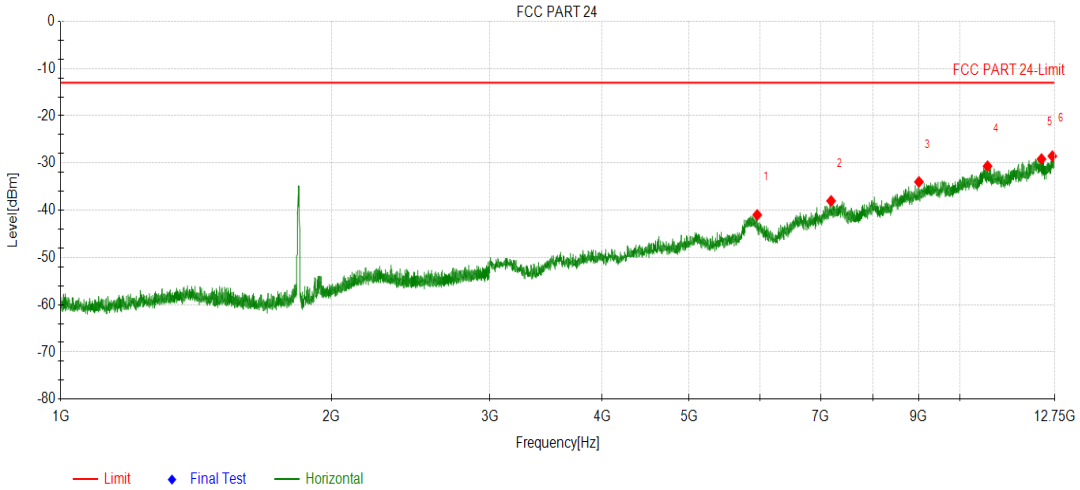


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5745.843	-48.71	-40.56	-13.00	27.56	8.15	154	156	Vertical
2	7381.406	-48.86	-35.85	-13.00	22.85	13.01	216	134	Vertical
3	9307.031	-48.20	-32.08	-13.00	19.08	16.12	137	131	Vertical
4	10653.75	-49.40	-29.18	-13.00	16.18	20.22	230	141	Vertical
5	12311.25	-49.70	-28.89	-13.00	15.89	20.81	149	151	Vertical
6	12672.00	-50.48	-28.79	-13.00	15.79	21.69	215	167	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 2 Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

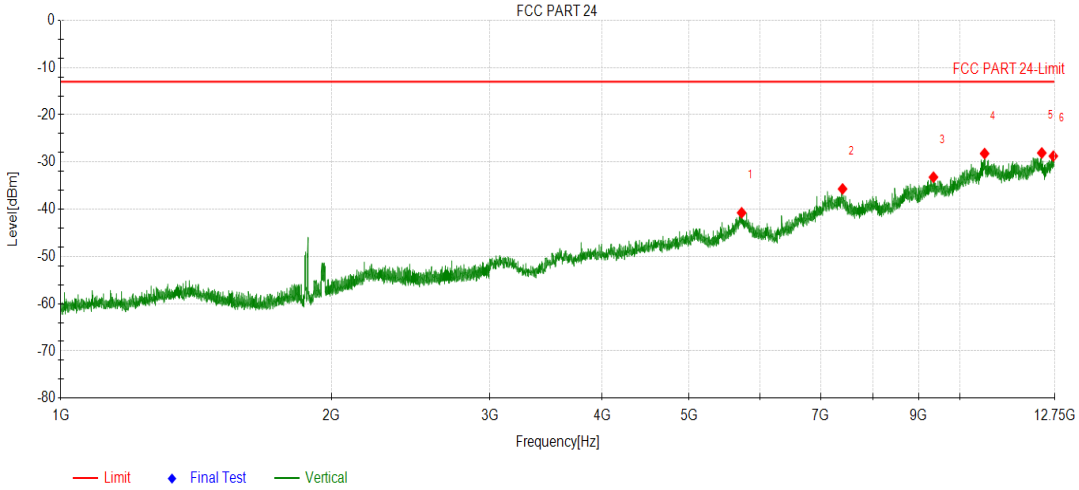


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5951.812	-48.62	-40.98	-13.00	27.98	7.64	344	154	Horizontal
2	7192.500	-49.30	-38.02	-13.00	25.02	11.28	27	131	Horizontal
3	9008.437	-48.58	-33.99	-13.00	20.99	14.59	349	145	Horizontal
4	10737.84	-49.58	-30.66	-13.00	17.66	18.92	24	162	Horizontal
5	12329.53	-50.04	-29.15	-13.00	16.15	20.89	333	134	Horizontal
6	12676.87	-50.34	-28.54	-13.00	15.54	21.80	31	164	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 2 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

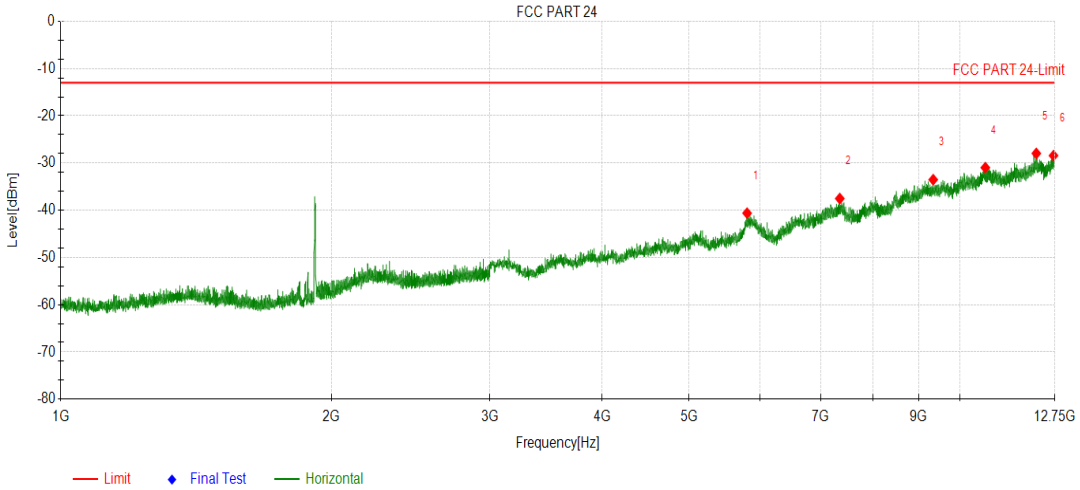


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5719.031	-48.97	-40.74	-13.00	27.74	8.23	237	156	Vertical
2	7407.000	-48.75	-35.69	-13.00	22.69	13.06	138	134	Vertical
3	9348.468	-49.22	-33.21	-13.00	20.21	16.01	167	154	Vertical
4	10657.40	-48.41	-28.20	-13.00	15.20	20.21	201	135	Vertical
5	12338.06	-48.87	-28.08	-13.00	15.08	20.79	190	168	Vertical
6	12709.78	-50.64	-28.74	-13.00	15.74	21.90	168	155	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 2 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

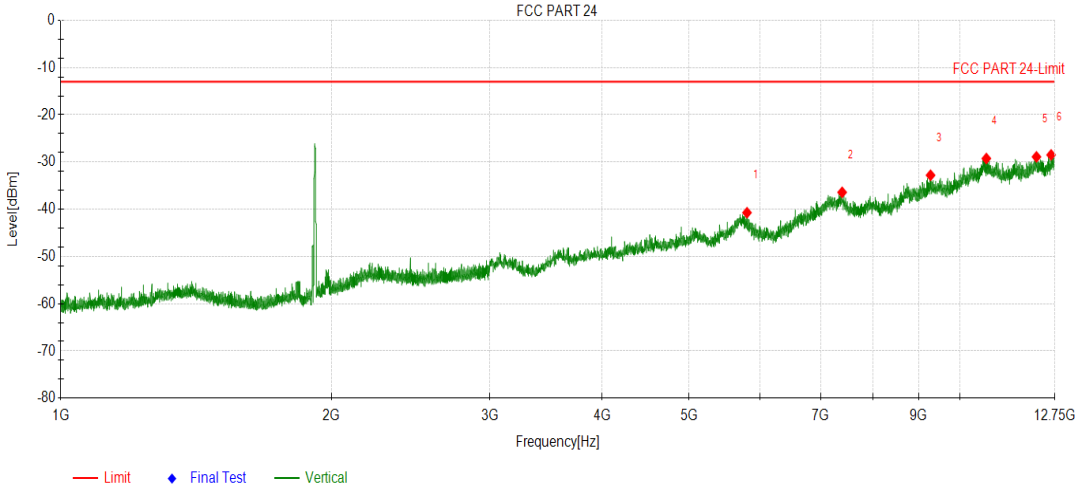


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5799.468	-48.84	-40.61	-13.00	27.61	8.23	239	166	Horizontal
2	7353.375	-48.74	-37.52	-13.00	24.52	11.22	127	135	Horizontal
3	9342.375	-49.23	-33.52	-13.00	20.52	15.71	157	154	Horizontal
4	10676.90	-49.85	-30.97	-13.00	17.97	18.88	198	149	Horizontal
5	12167.43	-49.09	-27.96	-13.00	14.96	21.13	164	143	Horizontal
6	12715.87	-50.46	-28.42	-13.00	15.42	22.04	197	155	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 2 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

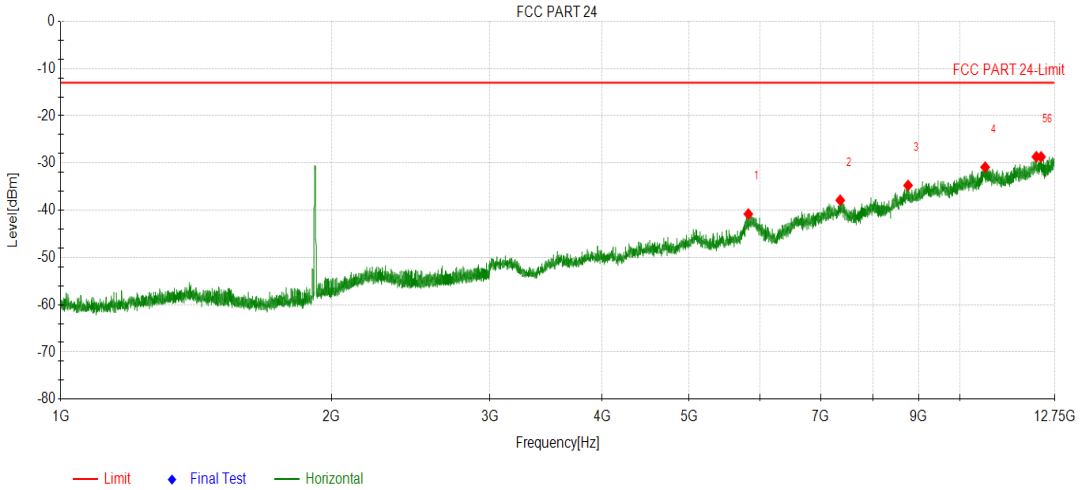


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5798.250	-48.73	-40.73	-13.00	27.73	8.00	234	156	Vertical
2	7398.468	-49.55	-36.41	-13.00	23.41	13.14	124	147	Vertical
3	9280.218	-48.81	-32.80	-13.00	19.80	16.01	265	161	Vertical
4	10704.93	-49.37	-29.25	-13.00	16.25	20.12	102	133	Vertical
5	12172.31	-50.04	-28.90	-13.00	15.90	21.14	217	154	Vertical
6	12636.65	-50.00	-28.49	-13.00	15.49	21.51	153	162	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 2 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

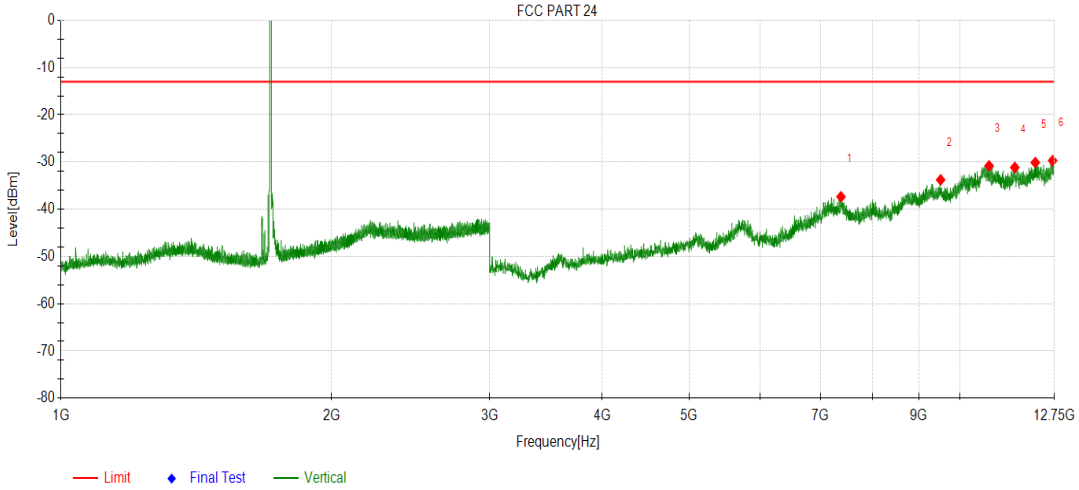


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5817.750	-49.09	-40.79	-13.00	27.79	8.30	234	156	Horizontal
2	7363.125	-49.14	-37.88	-13.00	24.88	11.26	134	132	Horizontal
3	8759.812	-48.80	-34.74	-13.00	21.74	14.06	239	154	Horizontal
4	10672.03	-49.75	-30.88	-13.00	17.88	18.87	127	149	Horizontal
5	12167.43	-49.81	-28.68	-13.00	15.68	21.13	135	137	Horizontal
6	12316.12	-49.60	-28.70	-13.00	15.70	20.90	236	145	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 4 Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

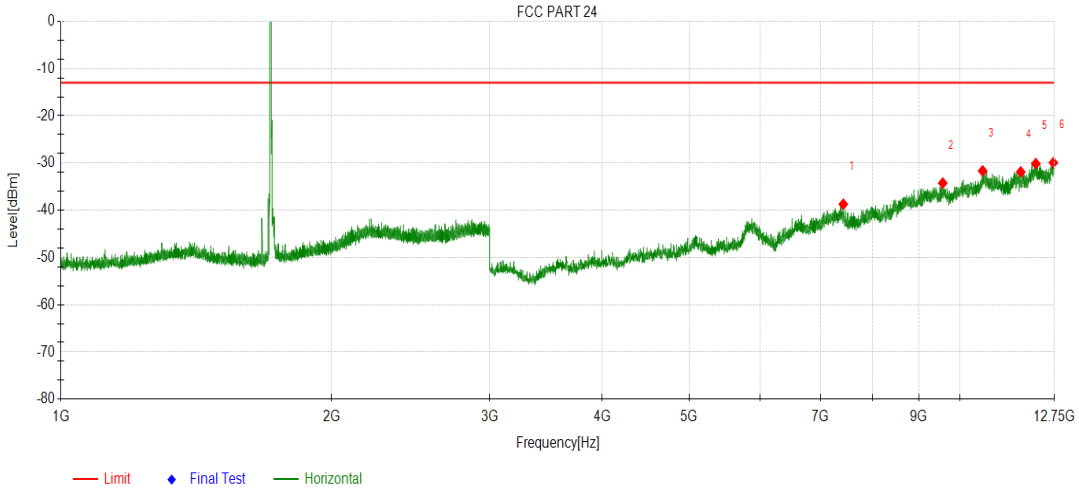


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	7376.531	-50.33	-37.35	-13.00	24.35	12.98	237	159	Vertical
2	9521.531	-49.79	-33.77	-13.00	20.77	16.02	138	164	Vertical
3	10780.50	-50.92	-30.81	-13.00	17.81	20.11	316	137	Vertical
4	11515.40	-51.74	-31.15	-13.00	18.15	20.59	54	157	Vertical
5	12134.53	-51.04	-30.11	-13.00	17.11	20.93	324	144	Vertical
6	12686.62	-51.46	-29.70	-13.00	16.70	21.76	40	147	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 4 Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

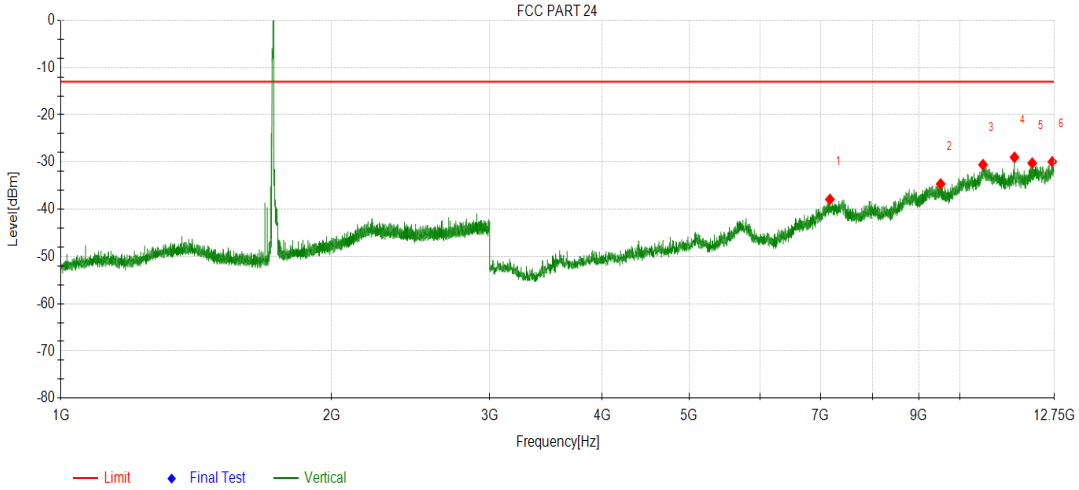


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	7420.406	-49.89	-38.71	-13.00	25.71	11.18	321	135	Horizontal
2	9573.937	-50.46	-34.24	-13.00	21.24	16.22	46	146	Horizontal
3	10603.78	-50.33	-31.66	-13.00	18.66	18.67	341	148	Horizontal
4	11689.68	-51.61	-31.88	-13.00	18.88	19.73	27	134	Horizontal
5	12151.59	-51.19	-30.12	-13.00	17.12	21.07	346	137	Horizontal
6	12711.00	-51.93	-29.92	-13.00	16.92	22.01	18	169	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 4 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

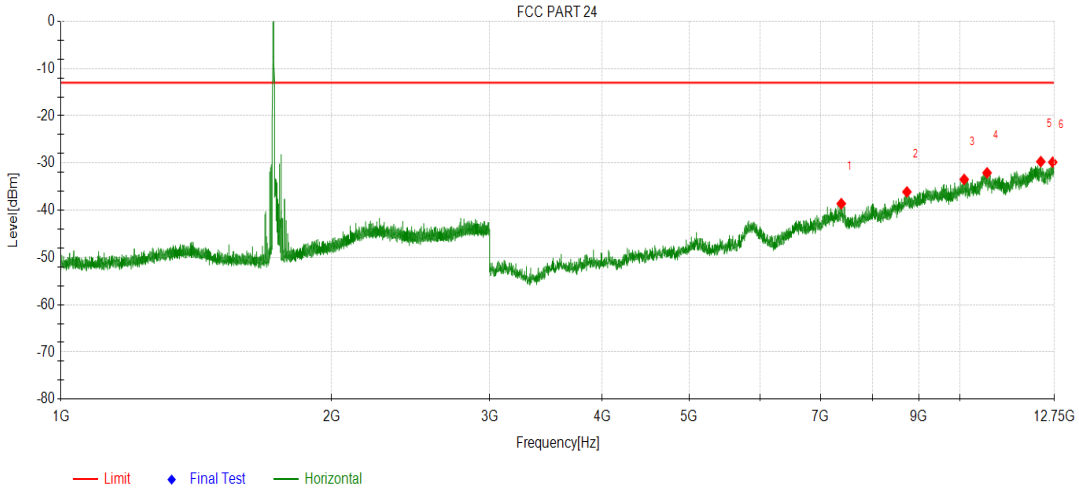


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	7170.562	-50.80	-37.90	-13.00	24.90	12.90	301	135	Vertical
2	9522.750	-50.67	-34.65	-13.00	21.65	16.02	57	164	Vertical
3	10614.75	-50.85	-30.55	-13.00	17.55	20.30	314	134	Vertical
4	11505.65	-49.65	-29.00	-13.00	16.00	20.65	46	167	Vertical
5	12039.46	-50.74	-30.22	-13.00	17.22	20.52	333	134	Vertical
6	12676.87	-51.65	-29.94	-13.00	16.94	21.71	31	161	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 4 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

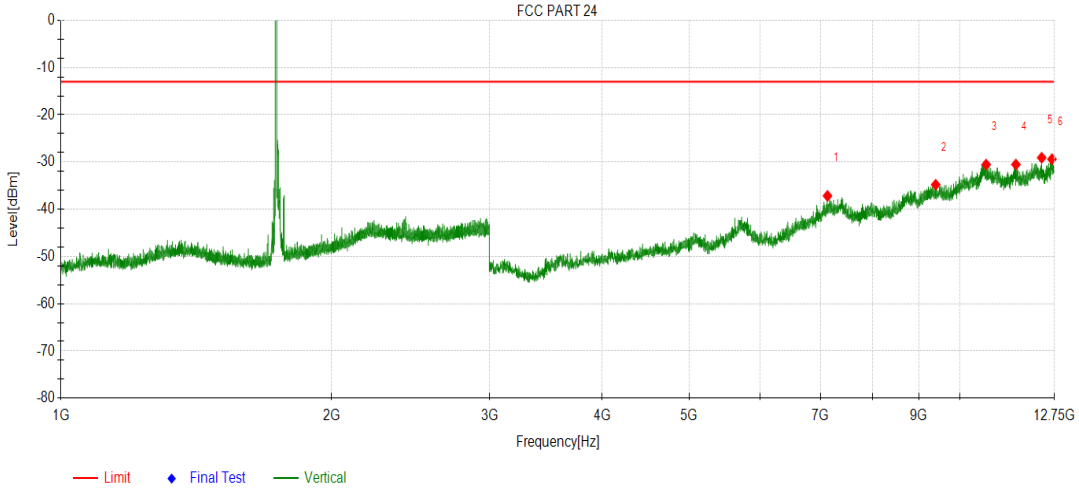


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	7382.625	-49.95	-38.60	-13.00	25.60	11.35	16	136	Horizontal
2	8734.218	-50.14	-36.11	-13.00	23.11	14.03	345	156	Horizontal
3	10113.84	-50.54	-33.47	-13.00	20.47	17.07	18	134	Horizontal
4	10724.43	-51.01	-32.08	-13.00	19.08	18.93	341	131	Horizontal
5	12307.59	-50.60	-29.70	-13.00	16.70	20.90	21	159	Horizontal
6	12689.06	-51.69	-29.82	-13.00	16.82	21.87	337	167	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 4 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

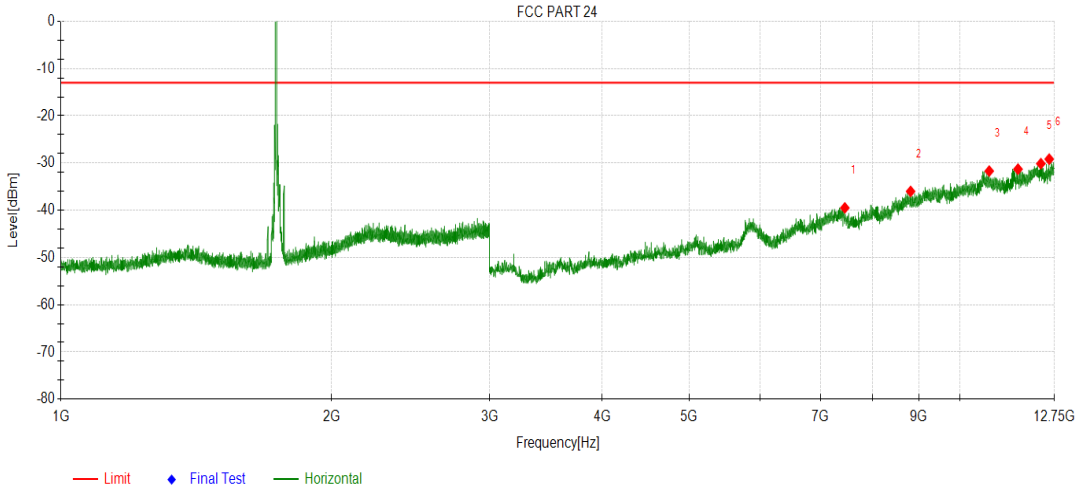


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	7125.468	-49.72	-37.15	-13.00	24.15	12.57	116	164	Vertical
2	9402.093	-50.67	-34.79	-13.00	21.79	15.88	254	134	Vertical
3	10698.84	-50.65	-30.53	-13.00	17.53	20.12	108	146	Vertical
4	11547.09	-50.92	-30.52	-13.00	17.52	20.40	269	159	Vertical
5	12335.62	-49.88	-29.08	-13.00	16.08	20.80	213	148	Vertical
6	12664.68	-51.05	-29.40	-13.00	16.40	21.65	129	134	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 4 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

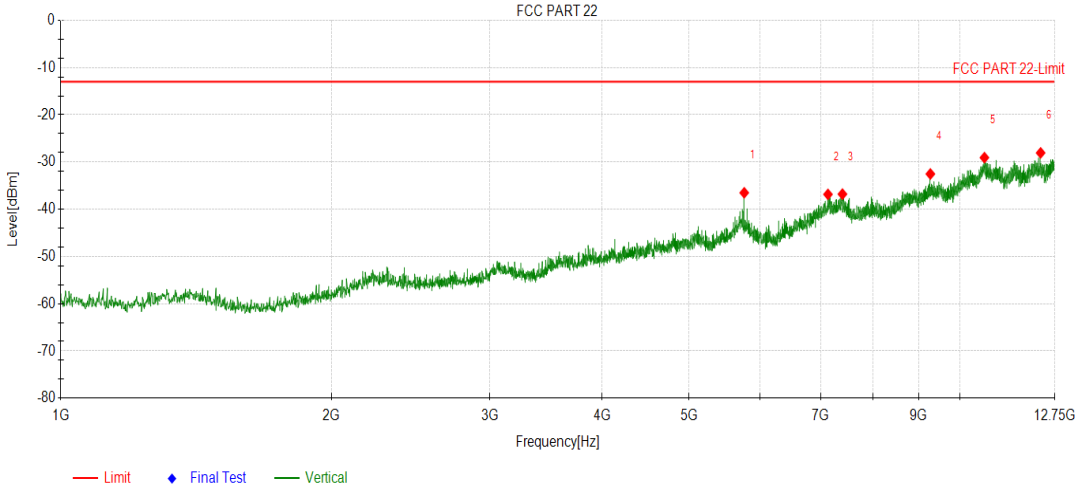


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	7449.656	-50.33	-39.49	-13.00	26.49	10.84	61	134	Horizontal
2	8817.093	-50.10	-36.00	-13.00	23.00	14.10	294	167	Horizontal
3	10784.15	-50.57	-31.70	-13.00	18.70	18.87	78	145	Horizontal
4	11609.25	-50.99	-31.29	-13.00	18.29	19.70	271	134	Horizontal
5	12310.03	-51.03	-30.13	-13.00	17.13	20.90	123	139	Horizontal
6	12575.71	-50.26	-29.17	-13.00	16.17	21.09	241	155	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 5 Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

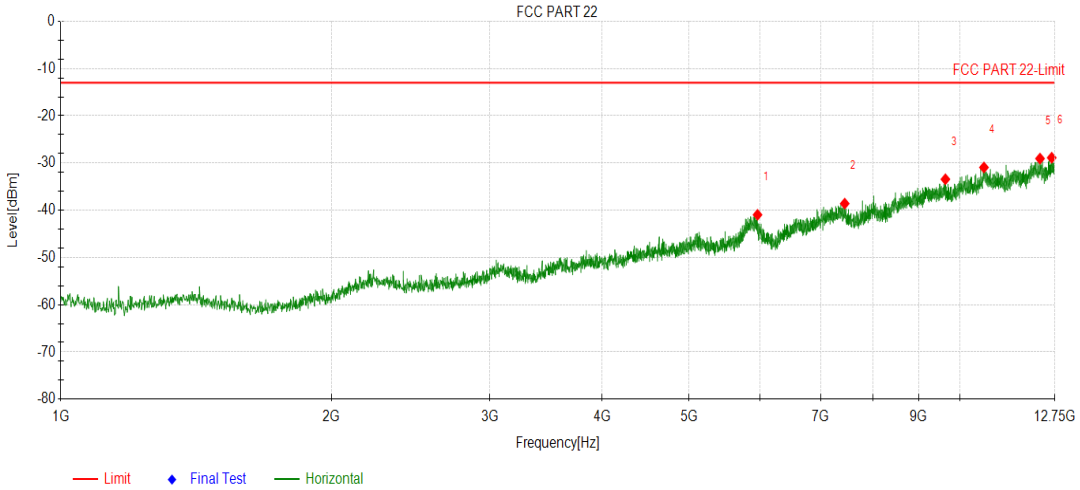


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5757.281	-44.81	-36.51	-13.00	23.51	8.30	63	153	Vertical
2	7134.968	-49.51	-36.84	-13.00	23.84	12.67	291	132	Vertical
3	7403.750	-50.06	-36.79	-13.00	23.79	13.27	52	142	Vertical
4	9274.937	-48.44	-32.52	-13.00	19.52	15.92	310	164	Vertical
5	10652.62	-49.70	-29.06	-13.00	16.06	20.64	49	135	Vertical
6	12302.03	-49.15	-28.06	-13.00	15.06	21.09	310	167	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 5 Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

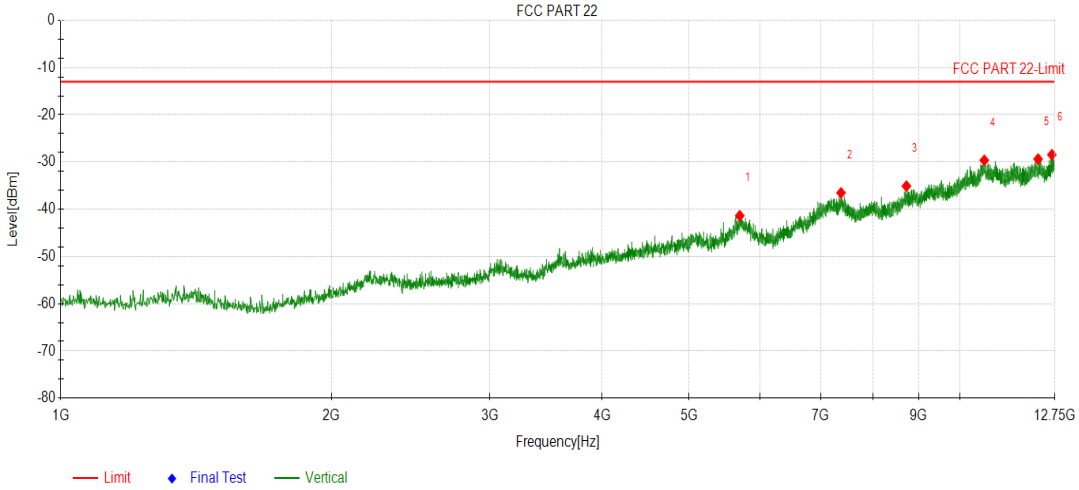


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [◦]	Height [cm]	Polarity
1	5957.031	-48.79	-40.96	-13.00	27.96	7.83	316	134	Horizontal
2	7447.812	-49.67	-38.58	-13.00	25.58	11.09	49	132	Horizontal
3	9639.187	-49.62	-33.43	-13.00	20.43	16.19	307	164	Horizontal
4	10639.40	-50.10	-30.93	-13.00	17.93	19.17	53	150	Horizontal
5	12282.93	-50.27	-29.06	-13.00	16.06	21.21	300	167	Horizontal
6	12657.46	-50.88	-28.87	-13.00	15.87	22.01	54	151	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 5 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

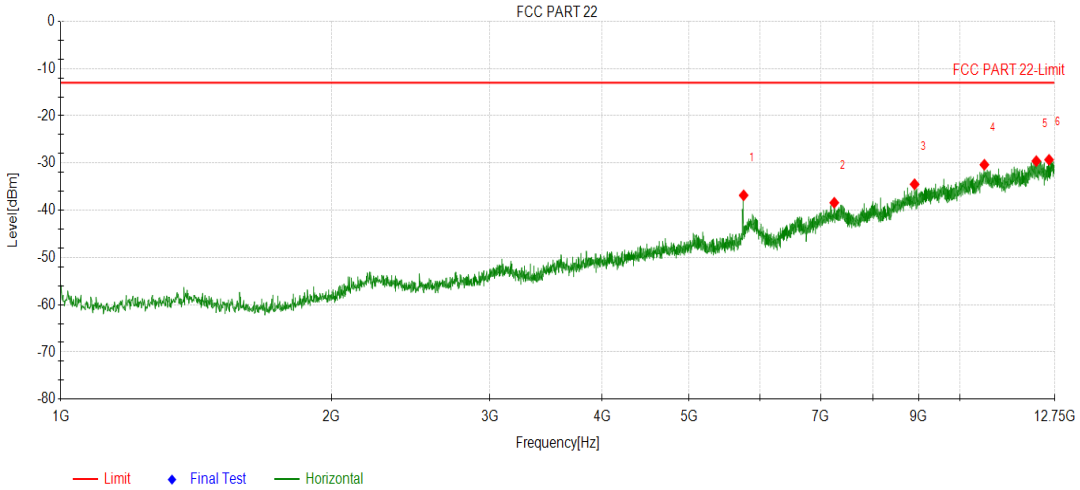


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5691.187	-49.84	-41.37	-13.00	28.37	8.47	124	156	Vertical
2	7377.312	-49.63	-36.52	-13.00	23.52	13.11	237	134	Vertical
3	8722.687	-49.30	-35.09	-13.00	22.09	14.21	129	167	Vertical
4	10648.21	-50.27	-29.63	-13.00	16.63	20.64	224	164	Vertical
5	12221.25	-50.72	-29.37	-13.00	16.37	21.35	108	132	Vertical
6	12661.87	-50.39	-28.44	-13.00	15.44	21.95	257	149	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 5 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

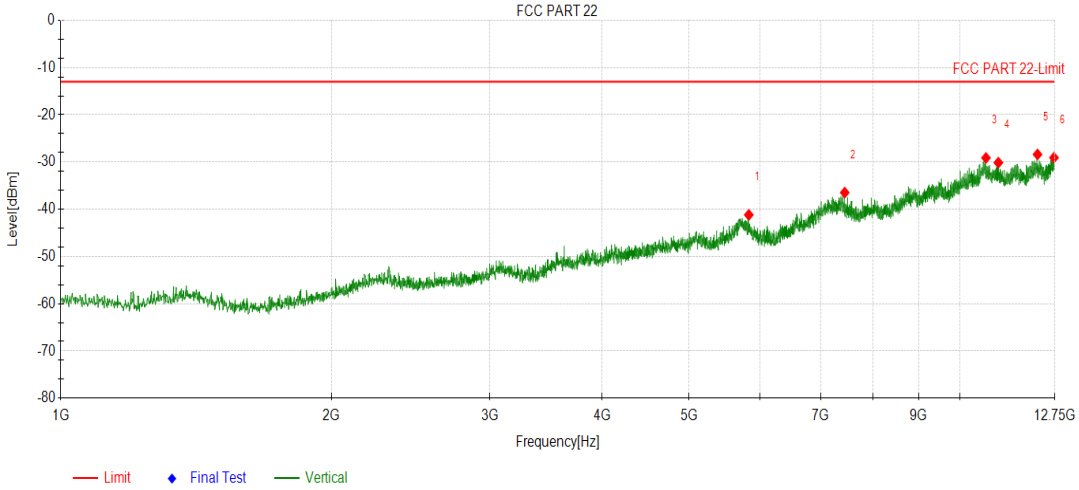


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5748.468	-43.44	-36.83	-13.00	23.83	6.61	187	156	Horizontal
2	7251.000	-49.59	-38.40	-13.00	25.40	11.19	191	132	Horizontal
3	8907.750	-48.60	-34.49	-13.00	21.49	14.11	162	167	Horizontal
4	10651.15	-49.59	-30.36	-13.00	17.36	19.23	200	169	Horizontal
5	12166.90	-50.84	-29.58	-13.00	16.58	21.26	137	137	Horizontal
6	12570.81	-50.64	-29.31	-13.00	16.31	21.33	238	145	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 5 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

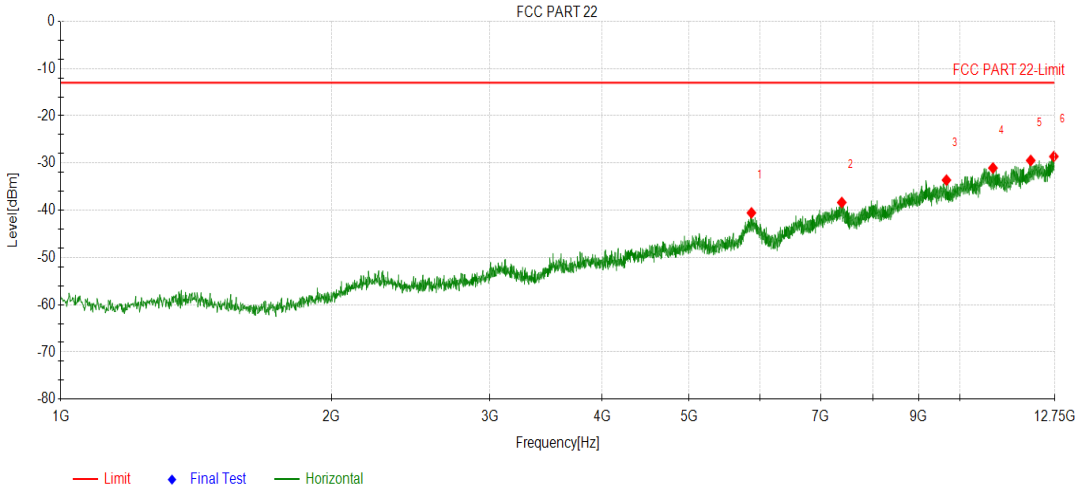


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5824.843	-48.82	-41.19	-13.00	28.19	7.63	249	156	Vertical
2	7447.812	-49.21	-36.47	-13.00	23.47	12.74	114	134	Vertical
3	10695.21	-49.76	-29.12	-13.00	16.12	20.64	237	167	Vertical
4	11040.37	-50.15	-30.13	-13.00	17.13	20.02	129	161	Vertical
5	12205.09	-49.79	-28.39	-13.00	15.39	21.40	233	149	Vertical
6	12729.43	-51.29	-29.07	-13.00	16.07	22.22	132	151	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 5 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

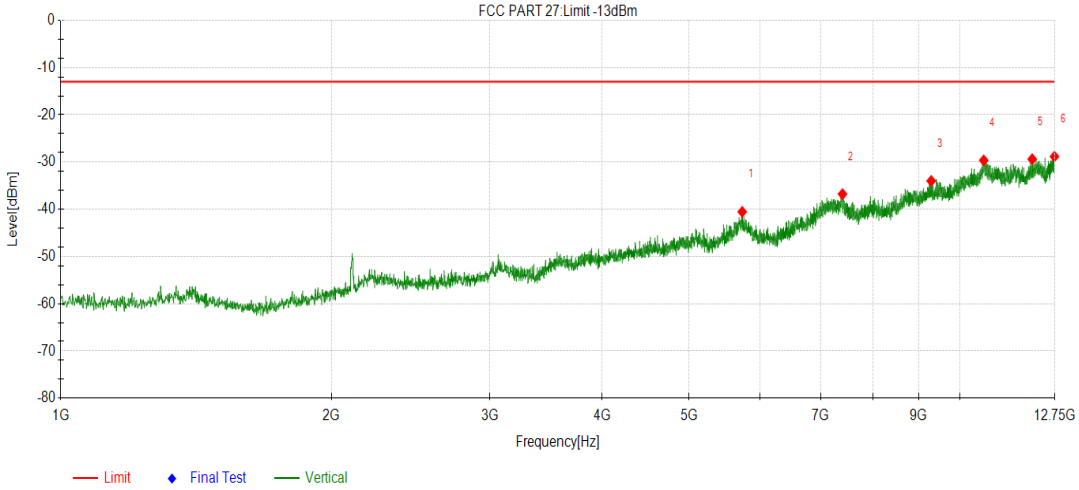


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5864.500	-49.31	-40.55	-13.00	27.55	8.76	213	156	Horizontal
2	7392.000	-49.88	-38.35	-13.00	25.35	11.53	149	142	Horizontal
3	9665.625	-49.52	-33.62	-13.00	20.62	15.90	279	137	Horizontal
4	10887.62	-49.87	-31.06	-13.00	18.06	18.81	99	146	Horizontal
5	11995.06	-50.16	-29.46	-13.00	16.46	20.70	243	157	Horizontal
6	12726.50	-50.91	-28.61	-13.00	15.61	22.30	111	139	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 12 Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

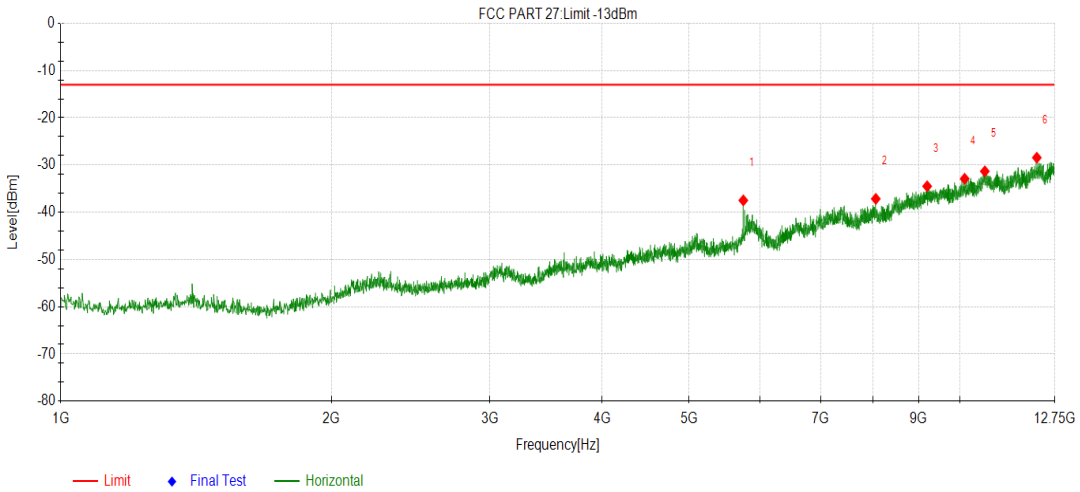


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5727.906	-49.04	-40.53	-13.00	27.53	8.51	110	156	Vertical
2	7405.218	-50.03	-36.78	-13.00	23.78	13.25	237	134	Vertical
3	9294.031	-50.04	-33.99	-13.00	20.99	16.05	119	159	Vertical
4	10633.53	-50.27	-29.63	-13.00	16.63	20.64	246	157	Vertical
5	12039.12	-50.17	-29.38	-13.00	16.38	20.79	132	167	Vertical
6	12745.59	-51.13	-28.84	-13.00	15.84	22.29	234	155	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 12 Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

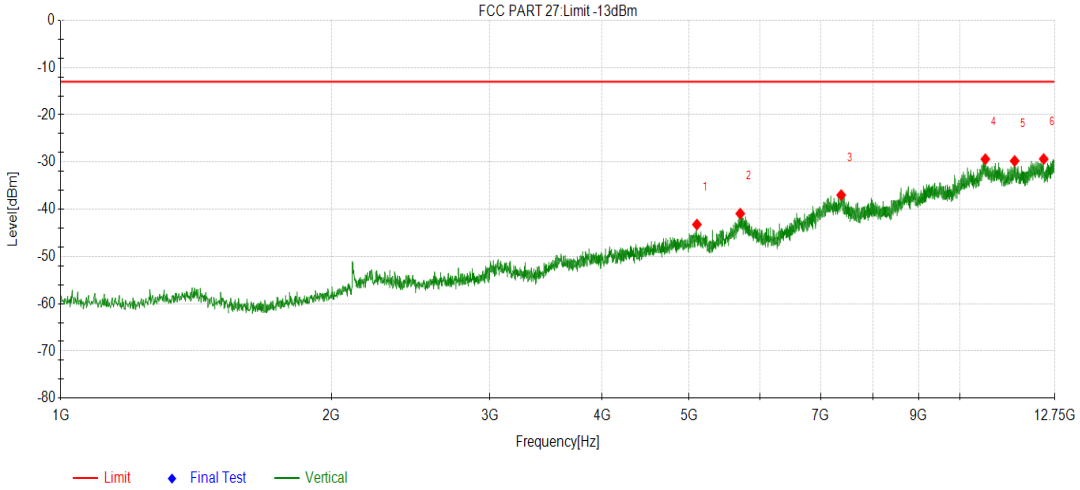


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5744.062	-43.95	-37.48	-13.00	24.48	6.47	181	161	Horizontal
2	8064.687	-49.24	-37.15	-13.00	24.15	12.09	170	134	Horizontal
3	9198.562	-50.22	-34.49	-13.00	21.49	15.73	197	167	Horizontal
4	10125.34	-49.99	-32.90	-13.00	19.90	17.09	185	154	Horizontal
5	10662.90	-50.60	-31.32	-13.00	18.32	19.28	188	156	Horizontal
6	12183.06	-49.76	-28.44	-13.00	15.44	21.32	173	149	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 12 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

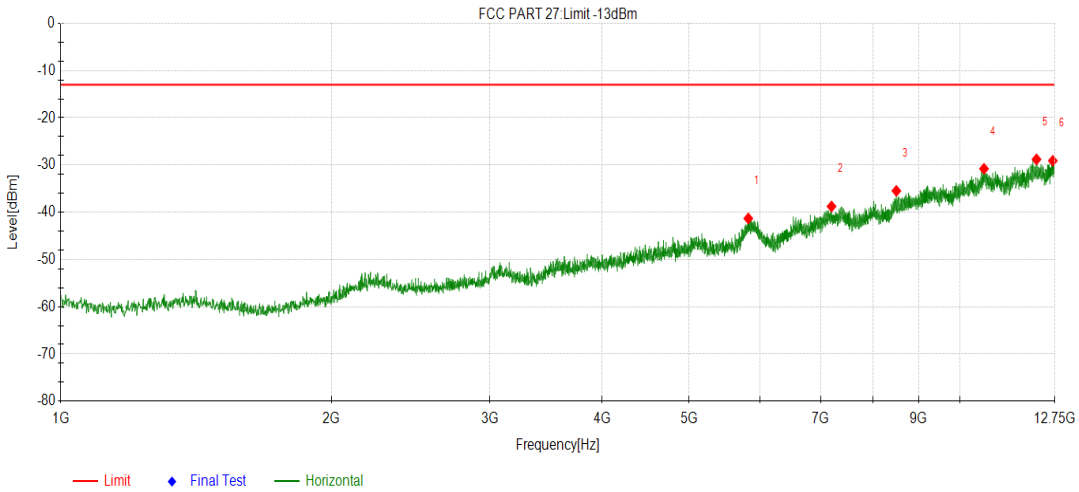


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5099.281	-47.93	-43.23	-13.00	30.23	4.70	149	156	Vertical
2	5698.531	-49.59	-40.92	-13.00	27.92	8.67	211	154	Vertical
3	7380.250	-50.13	-36.99	-13.00	23.99	13.14	158	161	Vertical
4	10677.59	-50.03	-29.39	-13.00	16.39	20.64	201	137	Vertical
5	11508.90	-50.73	-29.76	-13.00	16.76	20.97	141	158	Vertical
6	12398.96	-50.20	-29.35	-13.00	16.35	20.85	226	169	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 12 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

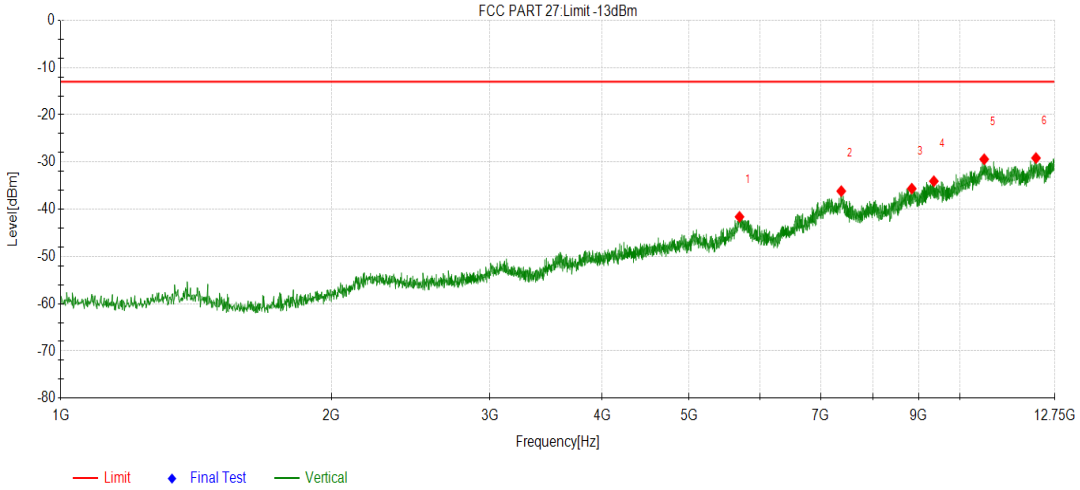


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5817.500	-49.70	-41.31	-13.00	28.31	8.39	330	168	Horizontal
2	7199.593	-50.13	-38.76	-13.00	25.76	11.37	38	161	Horizontal
3	8500.906	-49.17	-35.47	-13.00	22.47	13.70	319	137	Horizontal
4	10640.87	-49.96	-30.79	-13.00	17.79	19.17	53	144	Horizontal
5	12172.78	-50.07	-28.79	-13.00	15.79	21.28	326	151	Horizontal
6	12692.71	-51.26	-29.09	-13.00	16.09	22.17	47	162	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 12 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

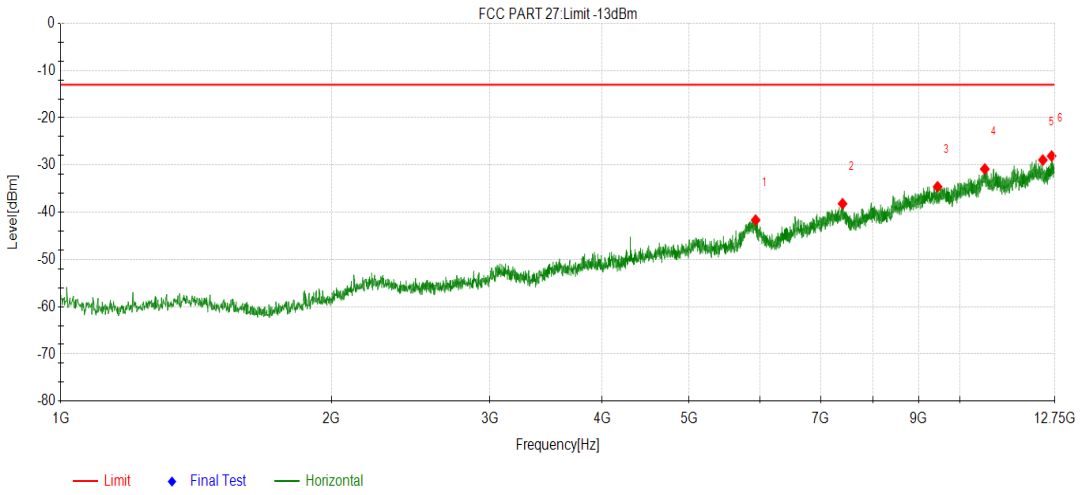


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5688.250	-49.99	-41.60	-13.00	28.60	8.39	157	156	Vertical
2	7381.718	-49.31	-36.16	-13.00	23.16	13.15	201	149	Vertical
3	8844.593	-50.10	-35.63	-13.00	22.63	14.47	167	161	Vertical
4	9358.656	-50.01	-34.06	-13.00	21.06	15.95	191	137	Vertical
5	10646.75	-50.05	-29.41	-13.00	16.41	20.64	337	154	Vertical
6	12156.62	-50.34	-29.15	-13.00	16.15	21.19	34	68	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 12 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

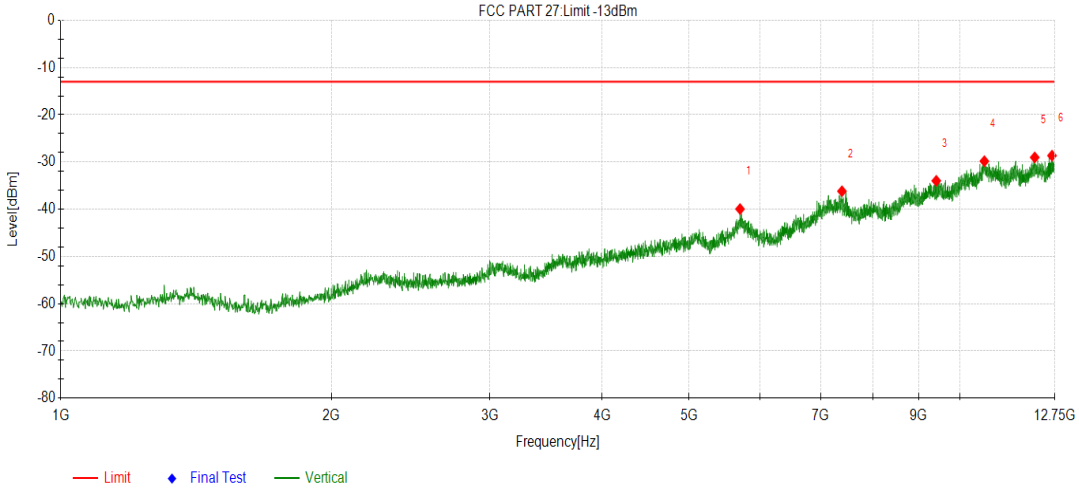


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5927.656	-50.10	-41.65	-13.00	28.65	8.45	113	156	Horizontal
2	7406.687	-49.70	-38.19	-13.00	25.19	11.51	254	137	Horizontal
3	9448.250	-50.37	-34.60	-13.00	21.60	15.77	151	149	Horizontal
4	10662.90	-50.12	-30.84	-13.00	17.84	19.28	207	154	Horizontal
5	12372.53	-49.95	-28.94	-13.00	15.94	21.01	164	167	Horizontal
6	12654.53	-50.09	-28.09	-13.00	15.09	22.00	198	164	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 13 Tx L/M/H CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

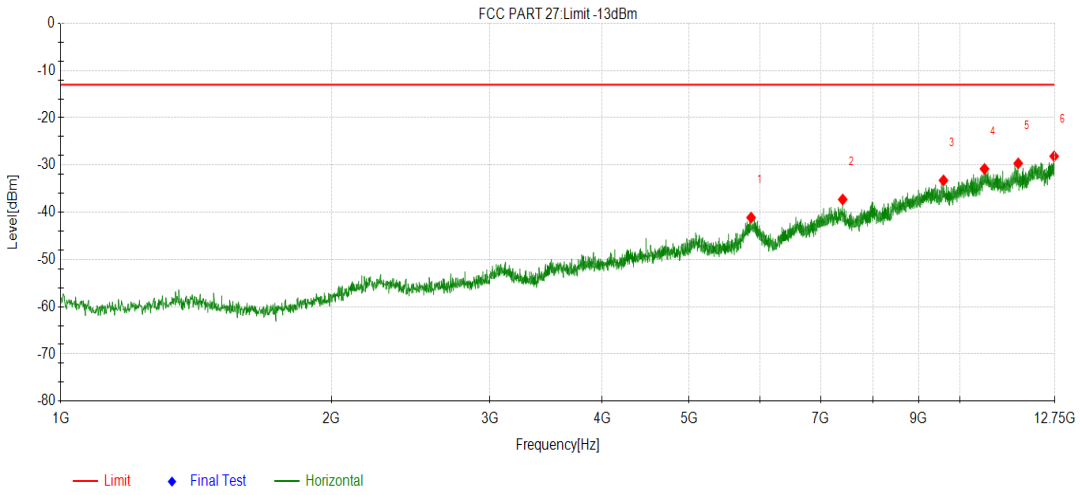


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5695.593	-48.54	-39.95	-13.00	26.95	8.59	209	156	Vertical
2	7394.937	-49.45	-36.18	-13.00	23.18	13.27	156	134	Vertical
3	9415.937	-49.88	-33.97	-13.00	20.97	15.91	196	149	Vertical
4	10651.15	-50.46	-29.82	-13.00	16.82	20.64	137	164	Vertical
5	12118.43	-50.00	-29.02	-13.00	16.02	20.98	152	139	Vertical
6	12666.28	-50.61	-28.64	-13.00	15.64	21.97	216	159	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 13 Tx L/M/H CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

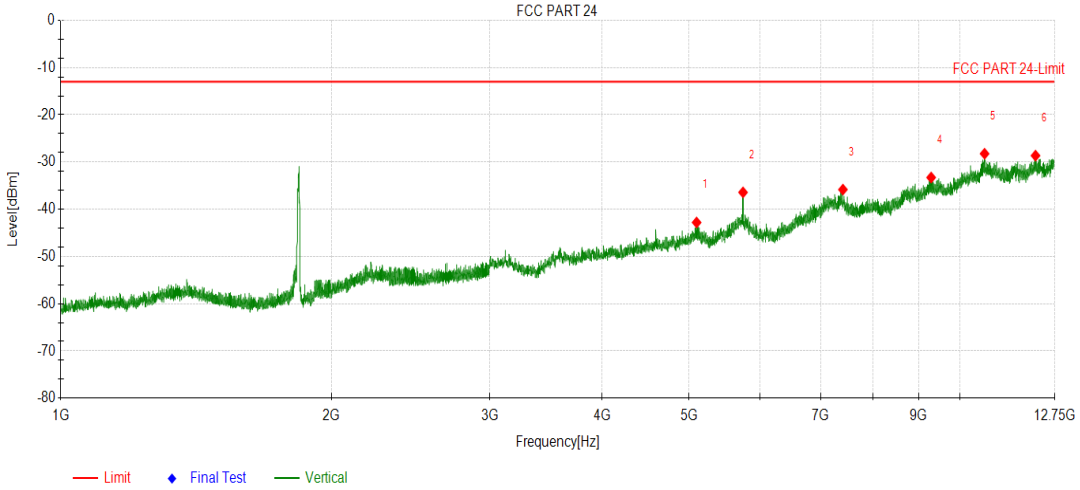


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [◦]	Height [cm]	Polarity
1	5860.093	-49.84	-41.12	-13.00	28.12	8.72	219	156	Horizontal
2	7409.625	-48.77	-37.29	-13.00	24.29	11.48	151	134	Horizontal
3	9592.187	-49.76	-33.25	-13.00	20.25	16.51	228	167	Horizontal
4	10654.09	-50.06	-30.82	-13.00	17.82	19.24	149	149	Horizontal
5	11616.12	-49.55	-29.64	-13.00	16.64	19.91	207	146	Horizontal
6	12736.78	-50.49	-28.15	-13.00	15.15	22.34	164	158	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 25 Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

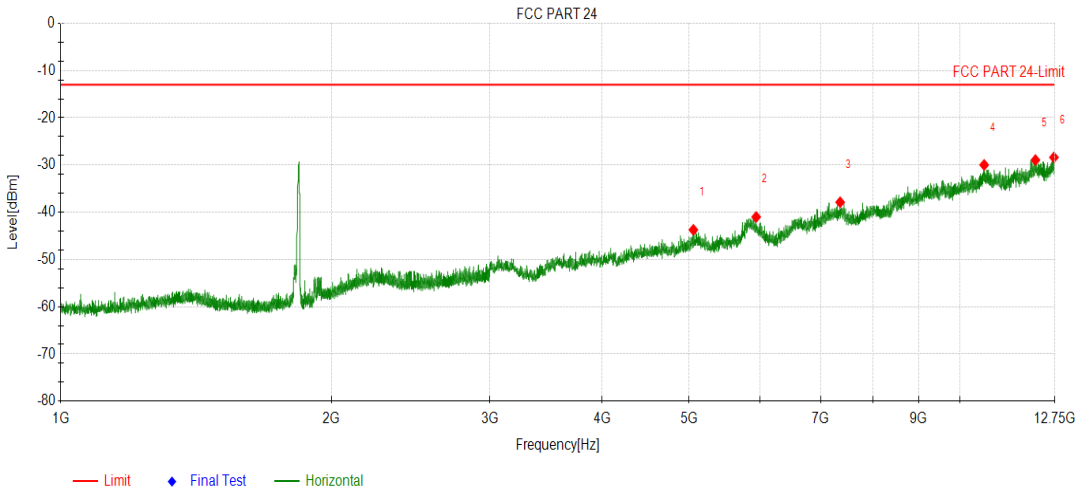


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5096.250	-47.43	-42.80	-13.00	29.80	4.63	346	164	Vertical
2	5739.750	-44.59	-36.42	-13.00	23.42	8.17	27	159	Vertical
3	7413.093	-48.81	-35.83	-13.00	22.83	12.98	307	148	Vertical
4	9293.625	-49.38	-33.28	-13.00	20.28	16.10	59	139	Vertical
5	10656.18	-48.45	-28.24	-13.00	15.24	20.21	341	154	Vertical
6	12141.84	-49.62	-28.65	-13.00	15.65	20.97	24	162	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 25 Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

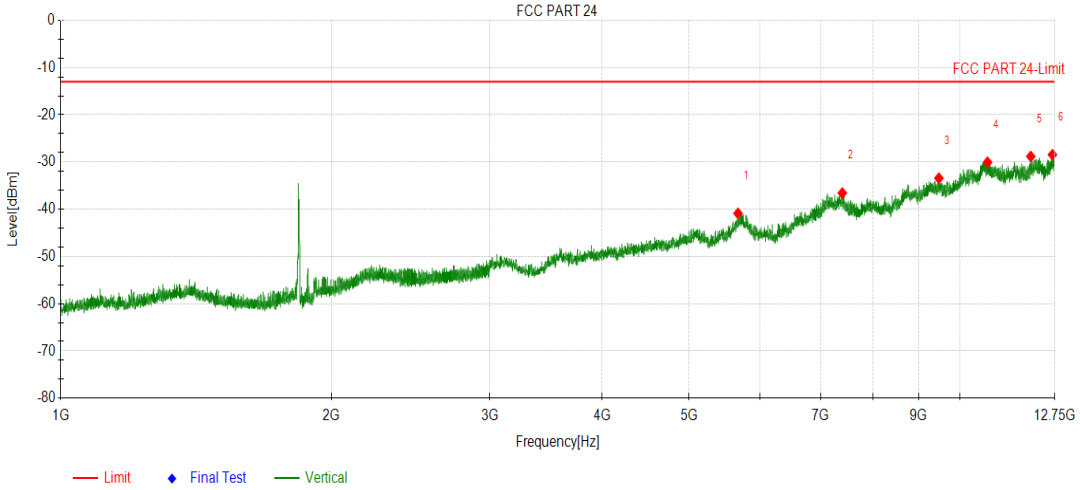


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5053.593	-47.43	-43.72	-13.00	30.72	3.71	319	150	Horizontal
2	5935.968	-48.91	-40.99	-13.00	27.99	7.92	50	164	Horizontal
3	7360.687	-49.12	-37.87	-13.00	24.87	11.25	324	158	Horizontal
4	10645.21	-48.77	-29.98	-13.00	16.98	18.79	33	169	Horizontal
5	12139.40	-49.98	-28.95	-13.00	15.95	21.03	300	137	Horizontal
6	12729.28	-50.50	-28.38	-13.00	15.38	22.12	58	157	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 25 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

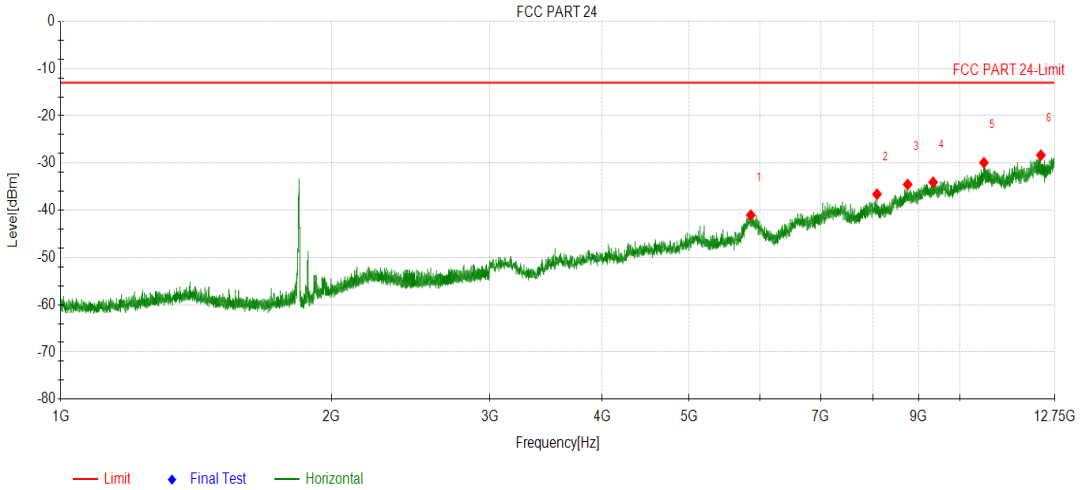


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5665.406	-48.39	-40.87	-13.00	27.87	7.52	19	168	Vertical
2	7402.125	-49.68	-36.56	-13.00	23.56	13.12	349	159	Vertical
3	9480.093	-49.52	-33.42	-13.00	20.42	16.10	338	154	Vertical
4	10737.84	-50.16	-30.04	-13.00	17.04	20.12	34	157	Vertical
5	11995.59	-49.15	-28.81	-13.00	15.81	20.34	307	137	Vertical
6	12681.75	-50.19	-28.45	-13.00	15.45	21.74	38	149	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 25 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

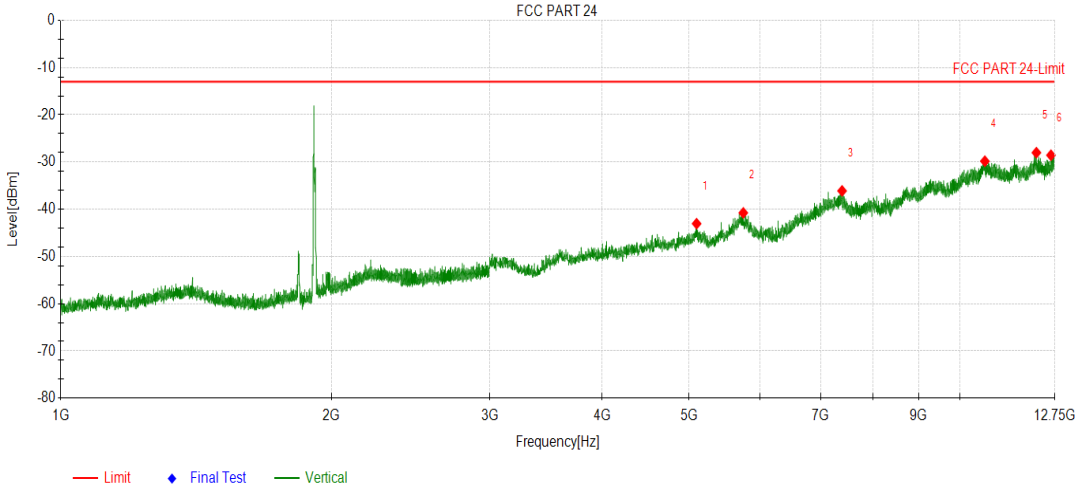


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5854.312	-49.44	-41.03	-13.00	28.03	8.41	316	165	Horizontal
2	8090.718	-48.63	-36.59	-13.00	23.59	12.04	52	159	Horizontal
3	8751.281	-48.58	-34.53	-13.00	21.53	14.05	301	162	Horizontal
4	9341.156	-49.75	-34.05	-13.00	21.05	15.70	54	137	Horizontal
5	10639.12	-48.70	-29.93	-13.00	16.93	18.77	286	151	Horizontal
6	12310.03	-49.24	-28.34	-13.00	15.34	20.90	88	168	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 25 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

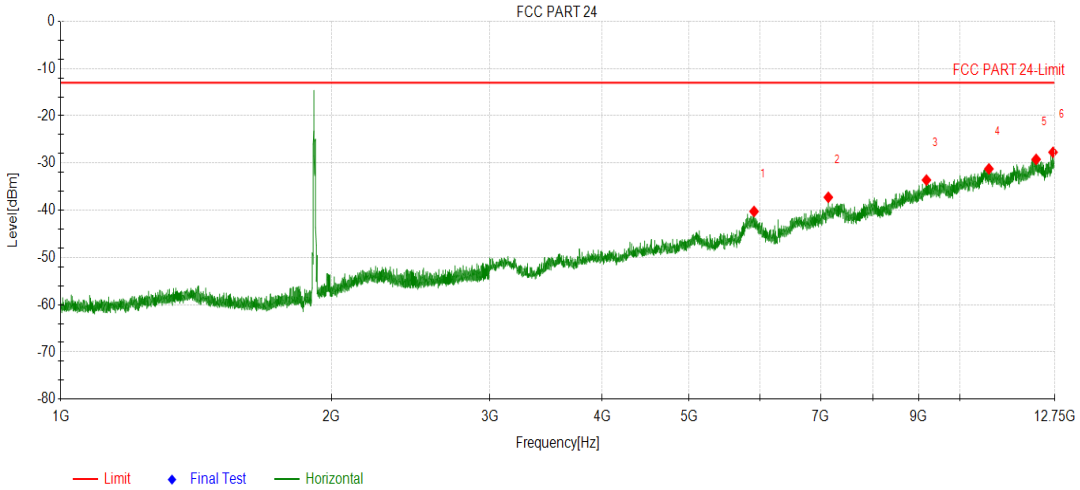


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5096.250	-47.68	-43.05	-13.00	30.05	4.63	77	156	Vertical
2	5743.406	-48.92	-40.76	-13.00	27.76	8.16	284	149	Vertical
3	7397.250	-49.24	-36.11	-13.00	23.11	13.13	54	137	Vertical
4	10664.71	-50.01	-29.82	-13.00	16.82	20.19	319	156	Vertical
5	12169.87	-49.13	-28.01	-13.00	15.01	21.12	71	147	Vertical
6	12633.00	-50.04	-28.55	-13.00	15.55	21.49	294	135	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 25 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

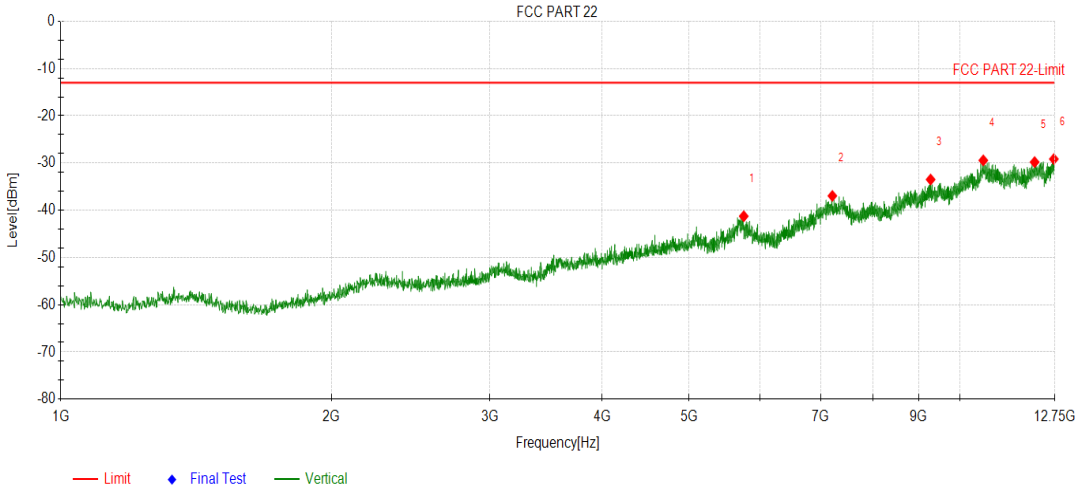


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [◦]	Height [cm]	Polarity
1	5904.281	-48.73	-40.25	-13.00	27.25	8.48	19	156	Horizontal
2	7141.312	-48.14	-37.25	-13.00	24.25	10.89	342	143	Horizontal
3	9182.718	-49.32	-33.60	-13.00	20.60	15.72	9	167	Horizontal
4	10775.62	-50.12	-31.24	-13.00	18.24	18.88	351	159	Horizontal
5	12161.34	-50.34	-29.23	-13.00	16.23	21.11	26	148	Horizontal
6	12700.03	-49.66	-27.72	-13.00	14.72	21.94	343	139	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 26(814-824) Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

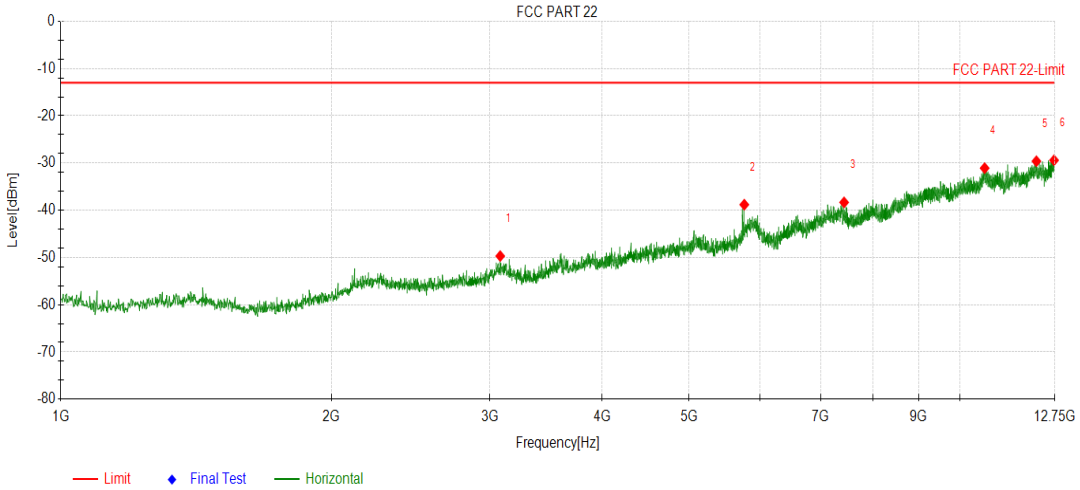


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5749.937	-49.62	-41.26	-13.00	28.26	8.36	336	156	Vertical
2	7215.750	-49.98	-36.95	-13.00	23.95	13.03	34	164	Vertical
3	9280.812	-49.45	-33.49	-13.00	20.49	15.96	345	169	Vertical
4	10621.78	-50.08	-29.44	-13.00	16.44	20.64	19	158	Vertical
5	12114.03	-50.76	-29.80	-13.00	16.80	20.96	332	137	Vertical
6	12726.50	-51.37	-29.16	-13.00	16.16	22.21	39	166	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 26(814-824) Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

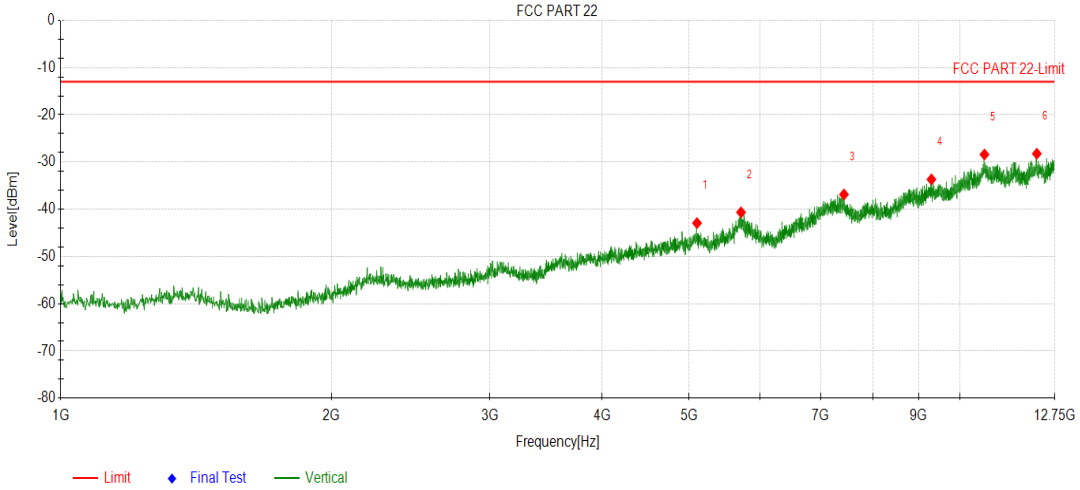


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	3081.218	-45.75	-49.70	-13.00	36.70	-3.95	255	156	Horizontal
2	5758.750	-45.75	-38.81	-13.00	25.81	6.94	114	168	Horizontal
3	7436.062	-49.54	-38.33	-13.00	25.33	11.21	249	156	Horizontal
4	10658.50	-50.34	-31.08	-13.00	18.08	19.26	127	131	Horizontal
5	12169.84	-50.88	-29.61	-13.00	16.61	21.27	269	151	Horizontal
6	12732.37	-51.73	-29.41	-13.00	16.41	22.32	99	169	Horizontal

Remark:

3. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
4. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 26(814-824) Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

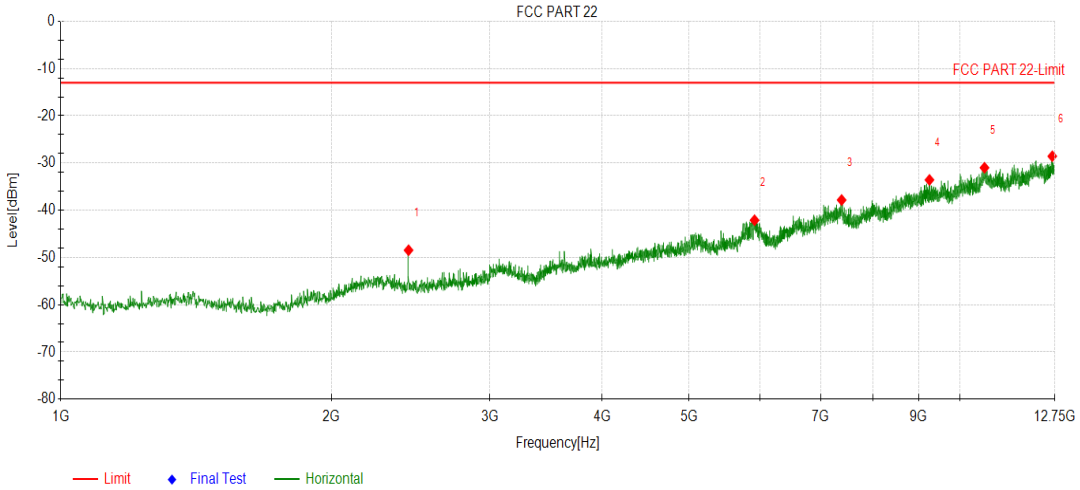


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5100.750	-47.64	-42.93	-13.00	29.93	4.71	215	159	Vertical
2	5710.281	-49.28	-40.64	-13.00	27.64	8.64	143	167	Vertical
3	7434.593	-49.76	-36.86	-13.00	23.86	12.90	201	154	Vertical
4	9299.906	-49.76	-33.67	-13.00	20.67	16.09	167	137	Vertical
5	10652.62	-49.03	-28.39	-13.00	15.39	20.64	159	161	Vertical
6	12184.53	-49.57	-28.23	-13.00	15.23	21.34	200	132	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 26(814-824) Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

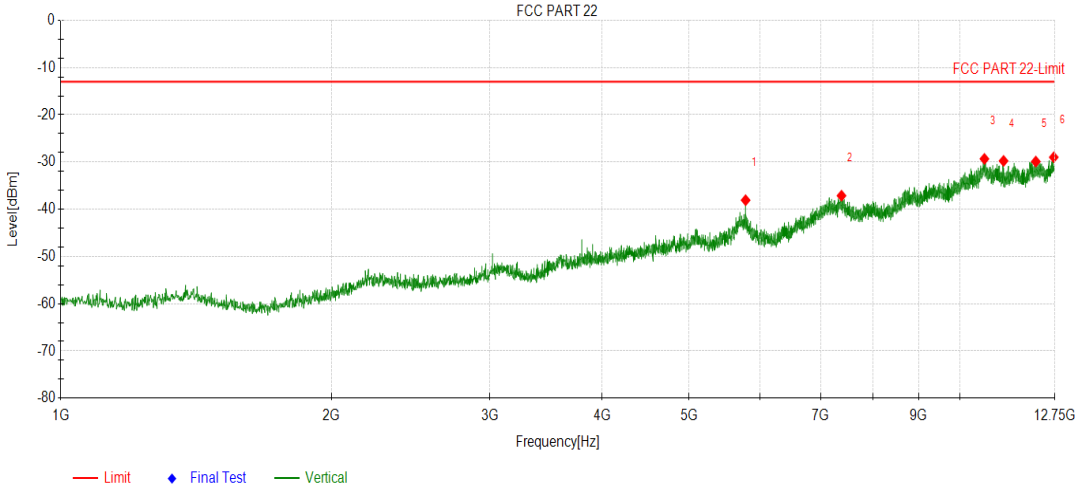


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [◦]	Height [cm]	Polarity
1	2436.437	-41.91	-48.46	-13.00	35.46	-6.55	164	159	Horizontal
2	5911.500	-50.91	-42.11	-13.00	29.11	8.80	201	154	Horizontal
3	7389.062	-49.35	-37.83	-13.00	24.83	11.52	169	137	Horizontal
4	9252.906	-49.06	-33.57	-13.00	20.57	15.49	191	154	Horizontal
5	10655.56	-50.24	-30.99	-13.00	17.99	19.25	131	155	Horizontal
6	12675.09	-50.65	-28.56	-13.00	15.56	22.09	228	166	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 26(814-824) Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

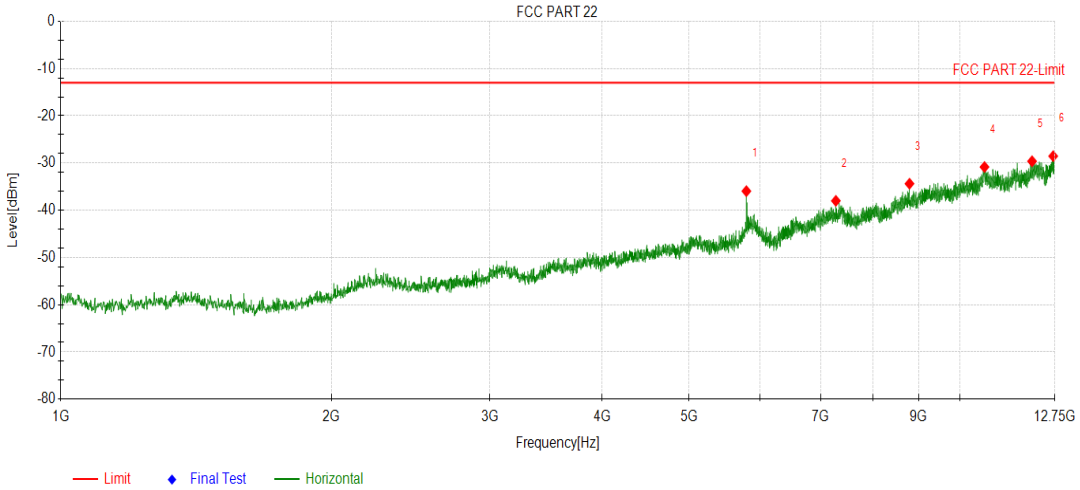


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5777.843	-46.24	-38.08	-13.00	25.08	8.16	159	167	Vertical
2	7386.125	-50.32	-37.13	-13.00	24.13	13.19	199	159	Vertical
3	10652.62	-49.97	-29.33	-13.00	16.33	20.64	310	164	Vertical
4	11187.25	-49.01	-29.76	-13.00	16.76	19.25	57	132	Vertical
5	12150.75	-51.05	-29.90	-13.00	16.90	21.15	33	162	Vertical
6	12723.56	-51.18	-28.99	-13.00	15.99	22.19	331	157	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 26(814-824) Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

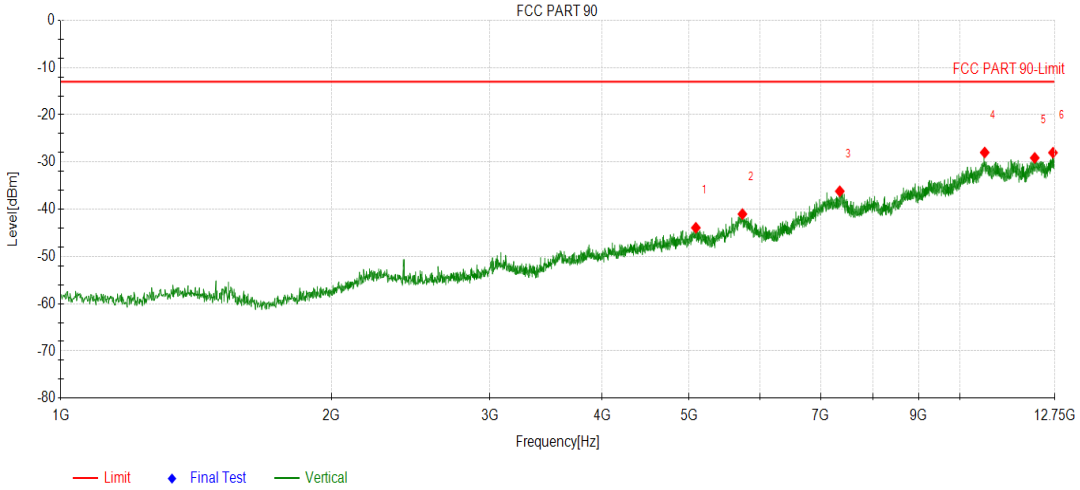


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [◦]	Height [cm]	Polarity
1	5789.593	-43.87	-35.95	-13.00	22.95	7.92	254	156	Horizontal
2	7280.375	-49.08	-38.00	-13.00	25.00	11.08	113	134	Horizontal
3	8791.718	-48.48	-34.37	-13.00	21.37	14.11	336	159	Horizontal
4	10654.09	-50.07	-30.83	-13.00	17.83	19.24	39	154	Horizontal
5	12034.71	-50.47	-29.62	-13.00	16.62	20.85	326	132	Horizontal
6	12704.46	-50.76	-28.54	-13.00	15.54	22.22	49	162	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 26(824-849) Tx L/M/H CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

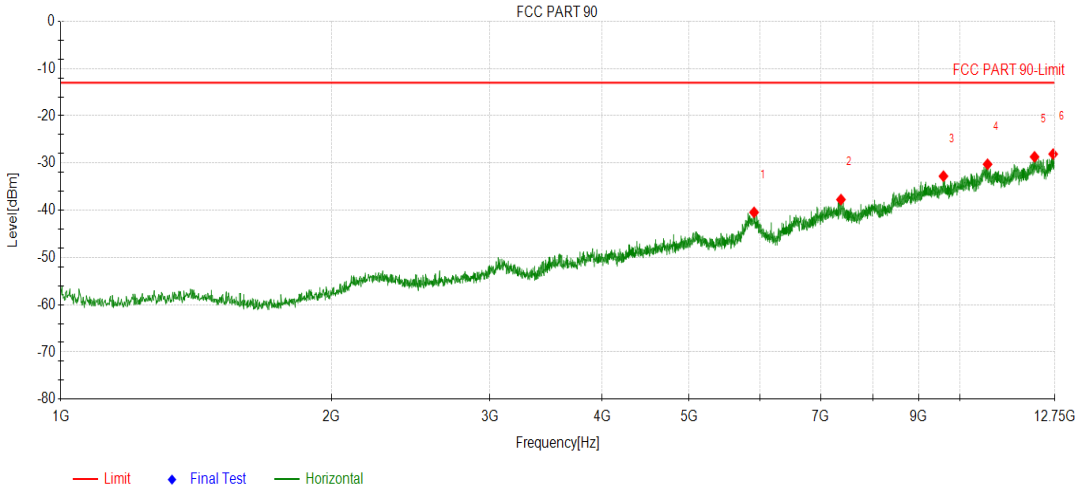


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5086.062	-48.46	-43.92	-13.00	30.92	4.54	268	156	Vertical
2	5730.843	-49.51	-41.02	-13.00	28.02	8.49	101	134	Vertical
3	7353.812	-49.09	-36.19	-13.00	23.19	12.90	209	154	Vertical
4	10659.96	-48.62	-27.98	-13.00	14.98	20.64	157	155	Vertical
5	12116.96	-50.09	-29.12	-13.00	16.12	20.97	329	133	Vertical
6	12698.59	-50.10	-28.02	-13.00	15.02	22.08	31	169	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 26(824-849) Tx L/M/H CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

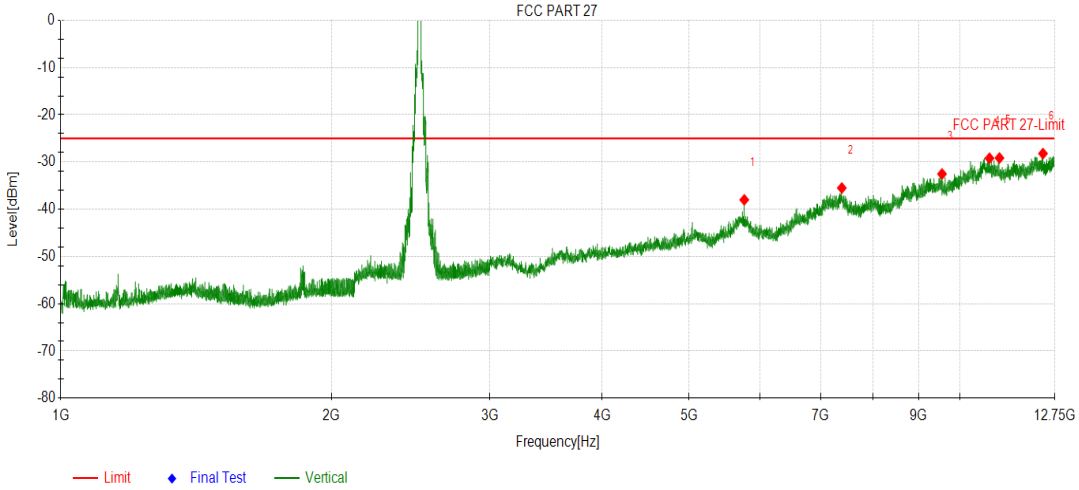


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5904.156	-49.39	-40.44	-13.00	27.44	8.95	341	164	Horizontal
2	7375.843	-49.18	-37.74	-13.00	24.74	11.44	29	134	Horizontal
3	9590.718	-49.27	-32.78	-13.00	19.78	16.49	16	159	Horizontal
4	10739.28	-49.44	-30.26	-13.00	17.26	19.18	346	154	Horizontal
5	12112.56	-49.76	-28.69	-13.00	15.69	21.07	24	158	Horizontal
6	12704.46	-50.32	-28.10	-13.00	15.10	22.22	345	137	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 41 Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

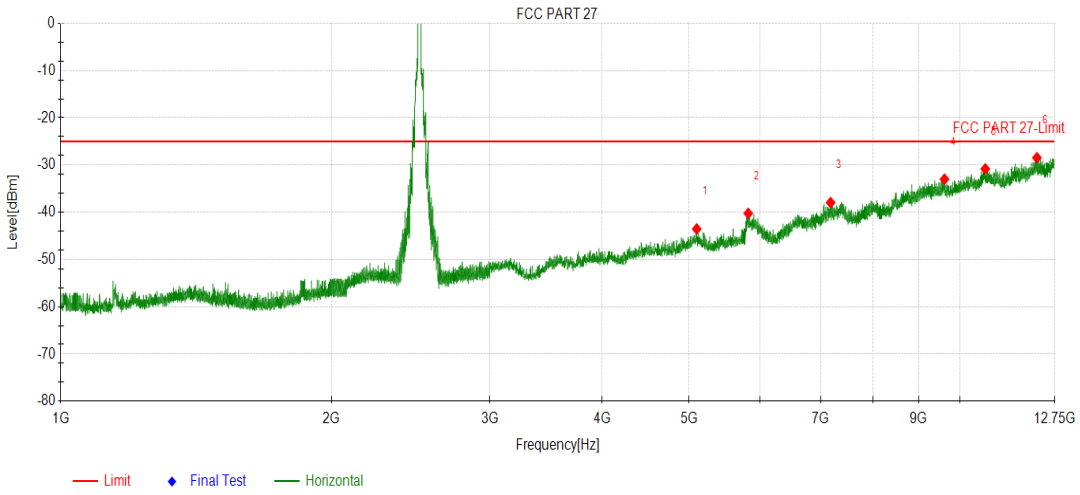


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5758.031	-46.12	-38.00	-25.00	13.00	8.12	216	135	Vertical
2	7392.375	-48.59	-35.50	-25.00	10.50	13.09	56	155	Vertical
3	9555.656	-48.33	-32.52	-25.00	7.52	15.81	331	159	Vertical
4	10791.46	-49.30	-29.19	-25.00	4.19	20.11	32	164	Vertical
5	11071.78	-48.52	-29.14	-25.00	4.14	19.38	345	157	Vertical
6	12375.84	-48.97	-28.20	-25.00	3.20	20.77	19	137	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 41 Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

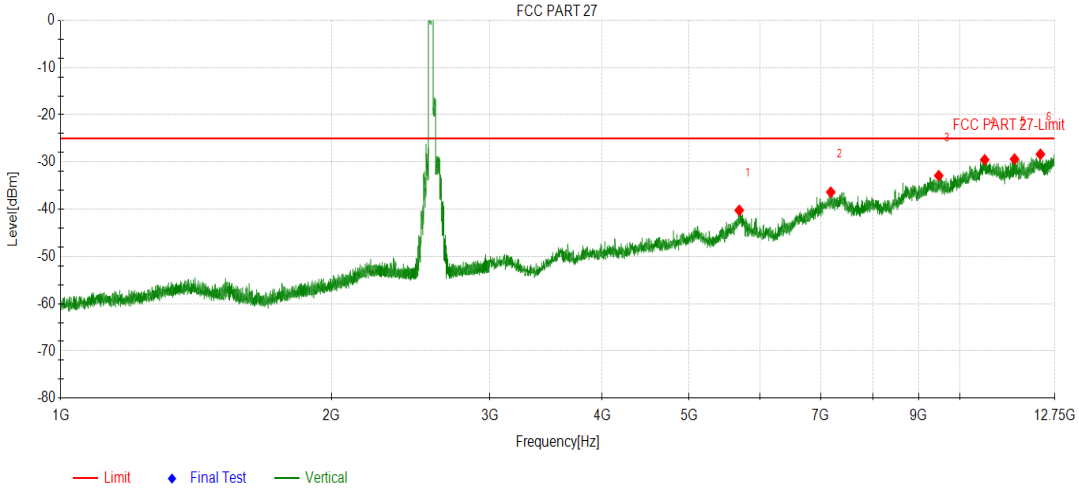


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [◦]	Height [cm]	Polarity
1	5097.468	-47.72	-43.53	-25.00	18.53	4.19	322	169	Horizontal
2	5816.531	-48.52	-40.22	-25.00	15.22	8.30	46	167	Horizontal
3	7182.750	-49.15	-37.94	-25.00	12.94	11.21	37	154	Horizontal
4	9616.593	-49.40	-33.00	-25.00	8.00	16.40	349	134	Horizontal
5	10676.90	-49.69	-30.81	-25.00	5.81	18.88	347	155	Horizontal
6	12185.71	-49.65	-28.45	-25.00	3.45	21.20	19	166	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 41 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

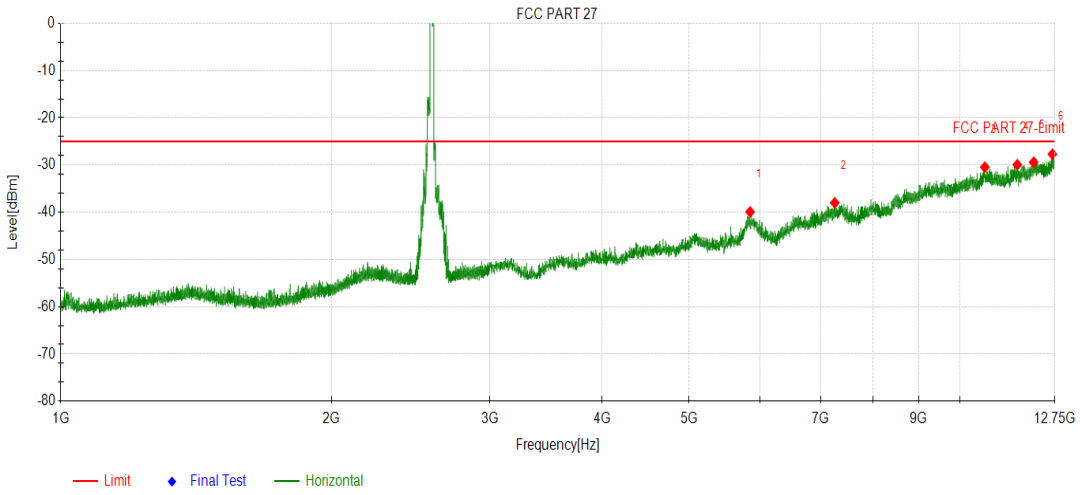


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5683.687	-48.15	-40.23	-25.00	15.23	7.92	156	134	Vertical
2	7186.406	-49.38	-36.37	-25.00	11.37	13.01	210	167	Vertical
3	9475.218	-48.97	-32.88	-25.00	7.88	16.09	315	159	Vertical
4	10659.84	-49.72	-29.52	-25.00	4.52	20.20	55	148	Vertical
5	11506.87	-50.02	-29.37	-25.00	4.37	20.65	351	149	Vertical
6	12295.40	-49.20	-28.36	-25.00	3.36	20.84	10	164	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 41 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

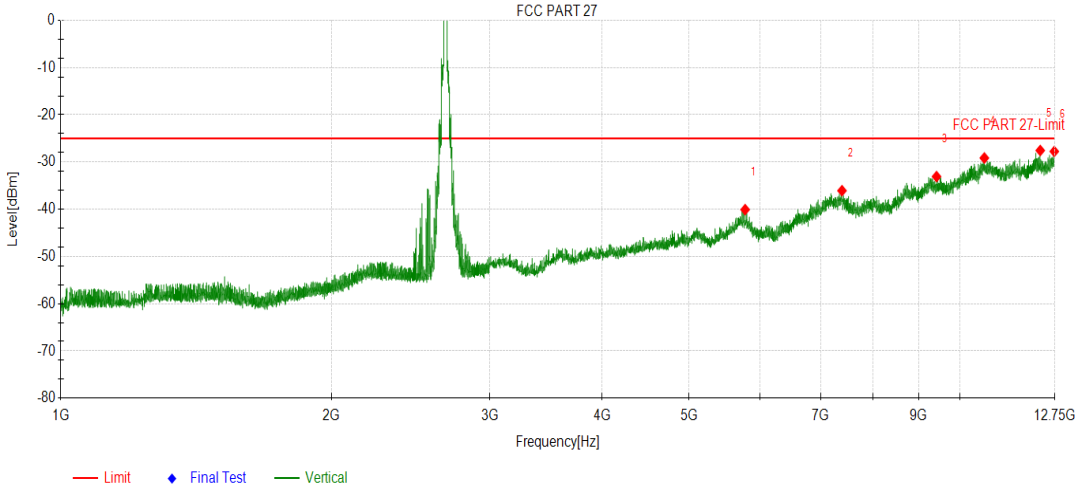


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [◦]	Height [cm]	Polarity
1	5844.562	-48.30	-39.92	-25.00	14.92	8.38	218	168	Horizontal
2	7259.531	-49.13	-38.00	-25.00	13.00	11.13	49	154	Horizontal
3	10663.50	-49.29	-30.45	-25.00	5.45	18.84	37	153	Horizontal
4	11588.53	-49.67	-29.92	-25.00	4.92	19.75	326	161	Horizontal
5	12085.78	-50.22	-29.41	-25.00	4.41	20.81	222	134	Horizontal
6	12680.53	-49.53	-27.71	-25.00	2.71	21.82	140	133	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 41 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

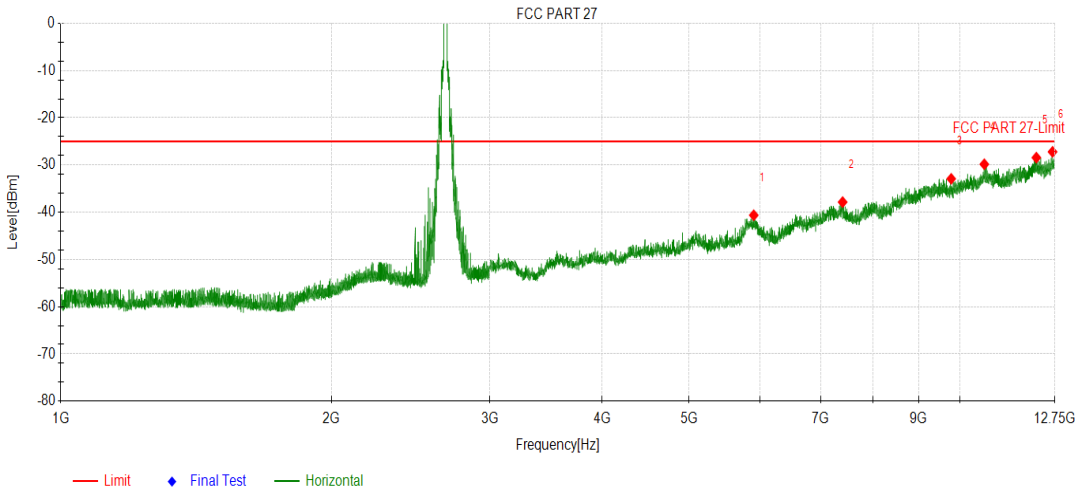


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5770.218	-48.15	-40.07	-25.00	15.07	8.08	156	156	Vertical
2	7396.031	-49.18	-36.06	-25.00	11.06	13.12	210	132	Vertical
3	9422.812	-49.01	-33.07	-25.00	8.07	15.94	310	159	Vertical
4	10650.09	-49.37	-29.15	-25.00	4.15	20.22	51	144	Vertical
5	12290.53	-48.41	-27.55	-25.00	2.55	20.86	340	168	Vertical
6	12740.25	-49.86	-27.75	-25.00	2.75	22.11	22	159	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 41 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

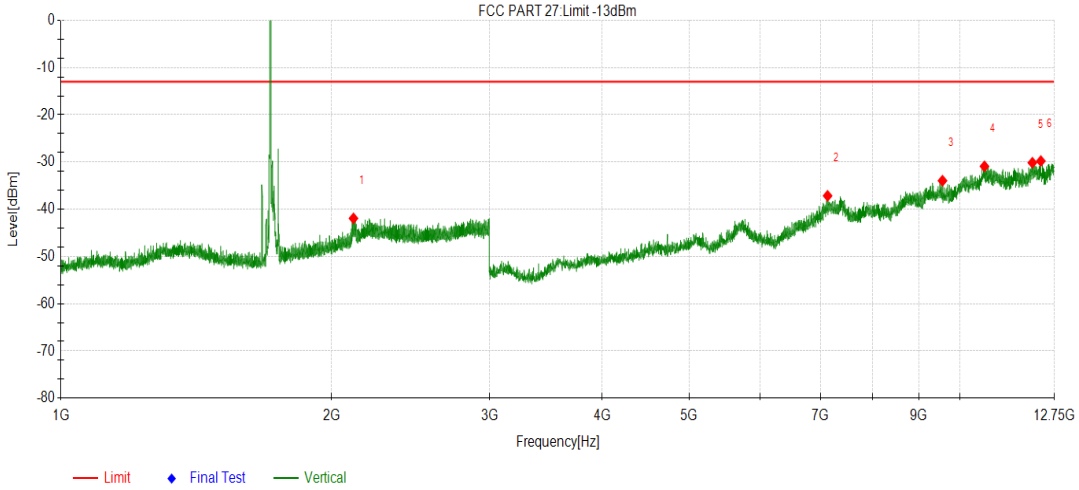


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5899.406	-49.18	-40.63	-25.00	15.63	8.55	100	161	Horizontal
2	7408.218	-49.17	-37.85	-25.00	12.85	11.32	201	138	Horizontal
3	9783.562	-48.93	-32.91	-25.00	7.91	16.02	89	159	Horizontal
4	10650.09	-48.64	-29.83	-25.00	4.83	18.81	276	148	Horizontal
5	12167.43	-49.56	-28.43	-25.00	3.43	21.13	92	167	Horizontal
6	12684.18	-49.05	-27.20	-25.00	2.20	21.85	261	156	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 66 Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

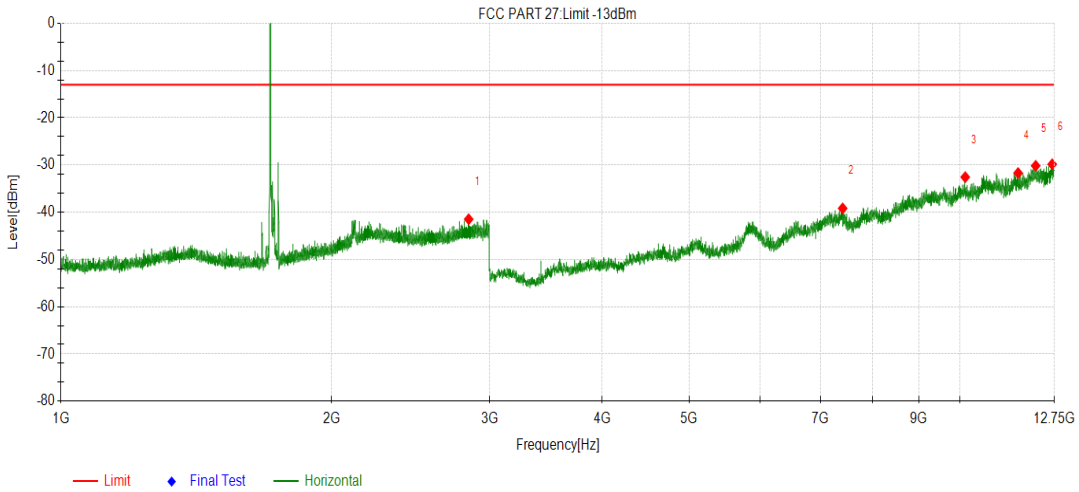


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	2115.750	-45.62	-41.92	-13.00	28.92	3.70	303	156	Vertical
2	7127.906	-50.12	-37.15	-13.00	24.15	12.97	61	136	Vertical
3	9566.625	-49.79	-33.95	-13.00	20.95	15.84	21	149	Vertical
4	10653.75	-50.62	-30.90	-13.00	17.90	19.72	342	158	Vertical
5	12044.34	-51.19	-30.14	-13.00	17.14	21.05	120	157	Vertical
6	12308.81	-50.75	-29.79	-13.00	16.79	20.96	241	134	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 66 Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

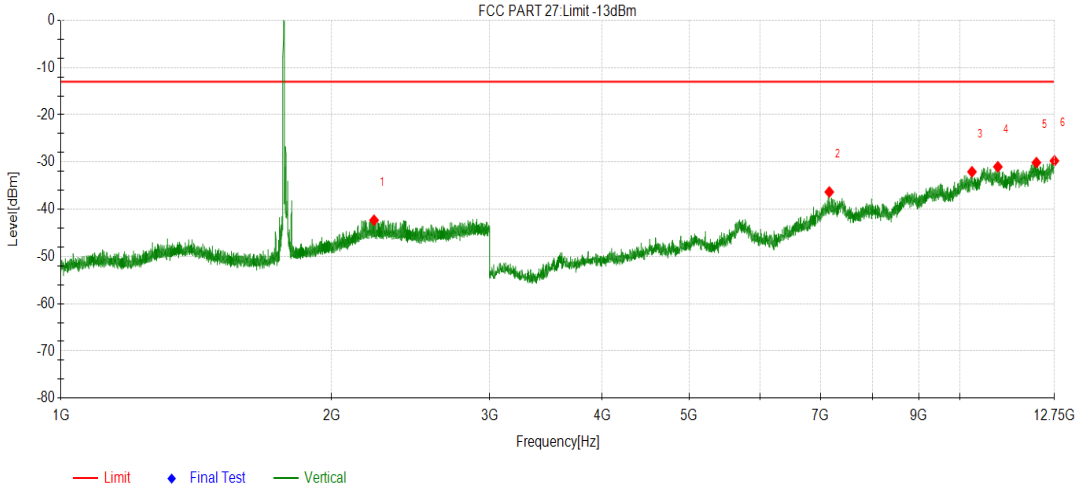


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	2842.250	-47.01	-41.47	-13.00	28.47	5.54	111	156	Horizontal
2	7408.218	-50.83	-39.18	-13.00	26.18	11.65	251	134	Horizontal
3	10141.87	-49.77	-32.56	-13.00	19.56	17.21	301	149	Horizontal
4	11612.90	-51.48	-31.69	-13.00	18.69	19.79	52	144	Horizontal
5	12146.71	-51.43	-30.16	-13.00	17.16	21.27	306	166	Horizontal
6	12672.00	-51.94	-29.83	-13.00	16.83	22.11	52	167	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 66 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

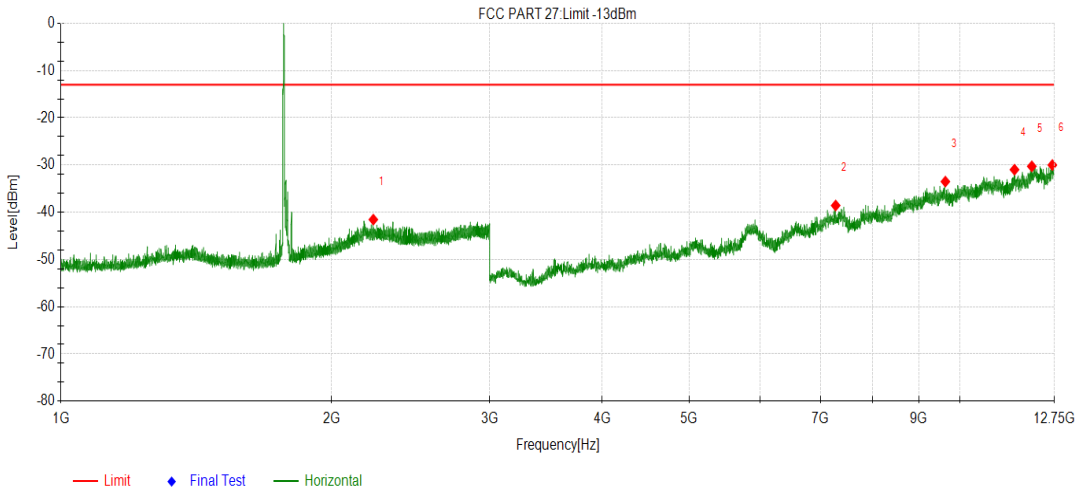


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [◦]	Height [cm]	Polarity
1	2230.250	-47.73	-42.32	-13.00	29.32	5.41	101	156	Vertical
2	7158.375	-49.52	-36.34	-13.00	23.34	13.18	257	134	Vertical
3	10318.59	-51.13	-32.07	-13.00	19.07	19.06	319	159	Vertical
4	11025.46	-50.82	-31.01	-13.00	18.01	19.81	41	148	Vertical
5	12169.87	-51.36	-30.12	-13.00	17.12	21.24	36	133	Vertical
6	12745.12	-52.14	-29.74	-13.00	16.74	22.40	338	144	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 66 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

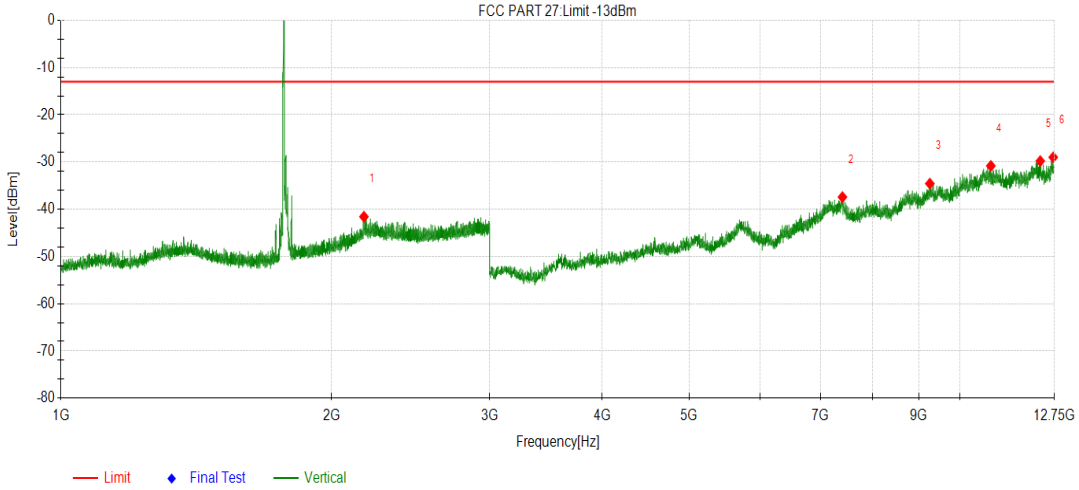


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	2226.250	-46.78	-41.55	-13.00	28.55	5.23	154	156	Horizontal
2	7276.593	-49.78	-38.57	-13.00	25.57	11.21	210	134	Horizontal
3	9638.531	-49.72	-33.50	-13.00	20.50	16.22	351	166	Horizontal
4	11506.87	-51.11	-30.98	-13.00	17.98	20.13	11	159	Horizontal
5	12027.28	-51.35	-30.28	-13.00	17.28	21.07	320	148	Horizontal
6	12678.09	-52.15	-30.00	-13.00	17.00	22.15	44	138	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 66 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

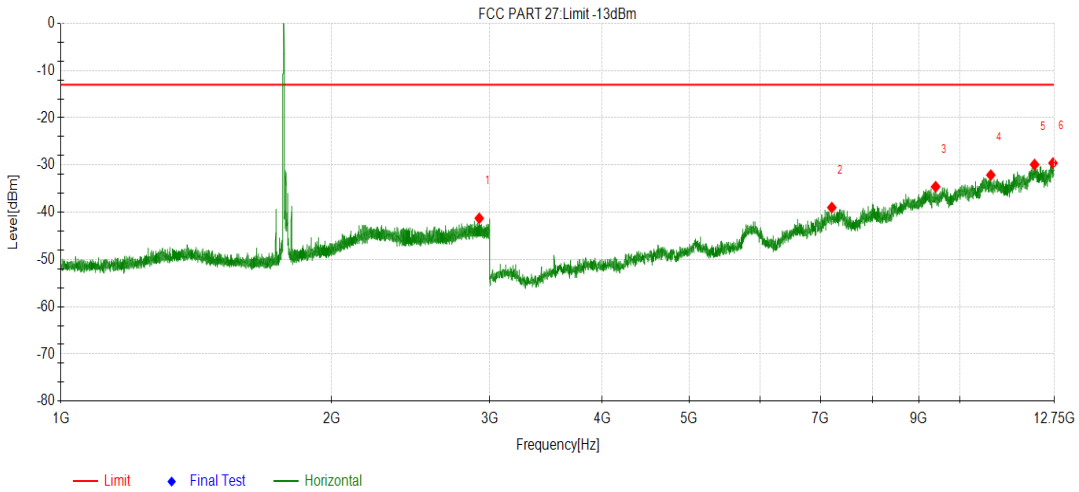


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	2173.250	-46.55	-41.57	-13.00	28.57	4.98	208	156	Vertical
2	7404.562	-50.83	-37.41	-13.00	24.41	13.42	153	134	Vertical
3	9261.937	-50.44	-34.56	-13.00	21.56	15.88	291	146	Vertical
4	10829.25	-50.98	-30.82	-13.00	17.82	20.16	77	159	Vertical
5	12290.53	-50.77	-29.79	-13.00	16.79	20.98	38	137	Vertical
6	12706.12	-51.22	-28.99	-13.00	15.99	22.23	336	167	Vertical

Remark:

1. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 66 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

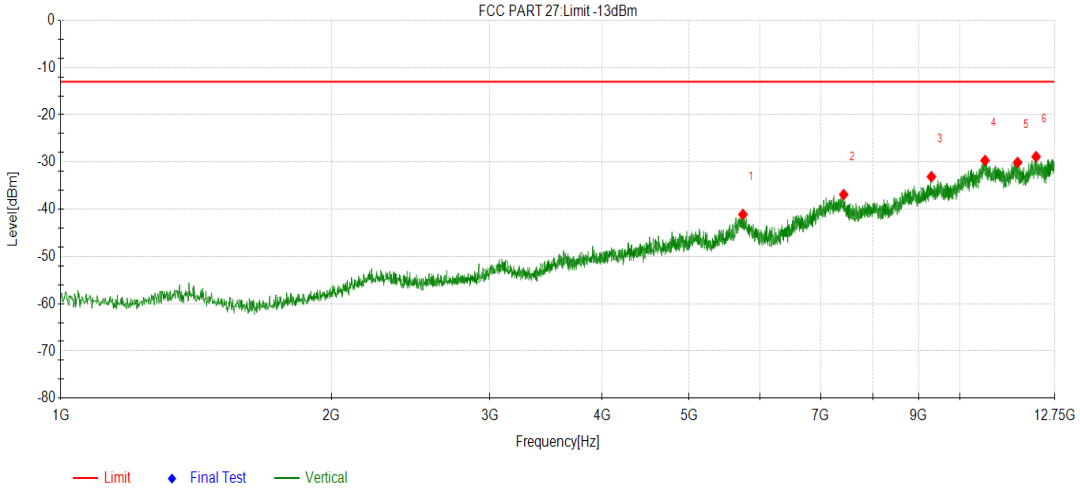


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	2920.000	-46.98	-41.27	-13.00	28.27	5.71	55	156	Horizontal
2	7205.906	-50.68	-39.01	-13.00	26.01	11.67	310	149	Horizontal
3	9400.875	-50.66	-34.60	-13.00	21.60	16.06	21	134	Horizontal
4	10828.03	-51.02	-32.12	-13.00	19.12	18.90	342	157	Horizontal
5	12111.37	-51.19	-29.90	-13.00	16.90	21.29	32	151	Horizontal
6	12698.81	-51.88	-29.58	-13.00	16.58	22.30	334	152	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 71 Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

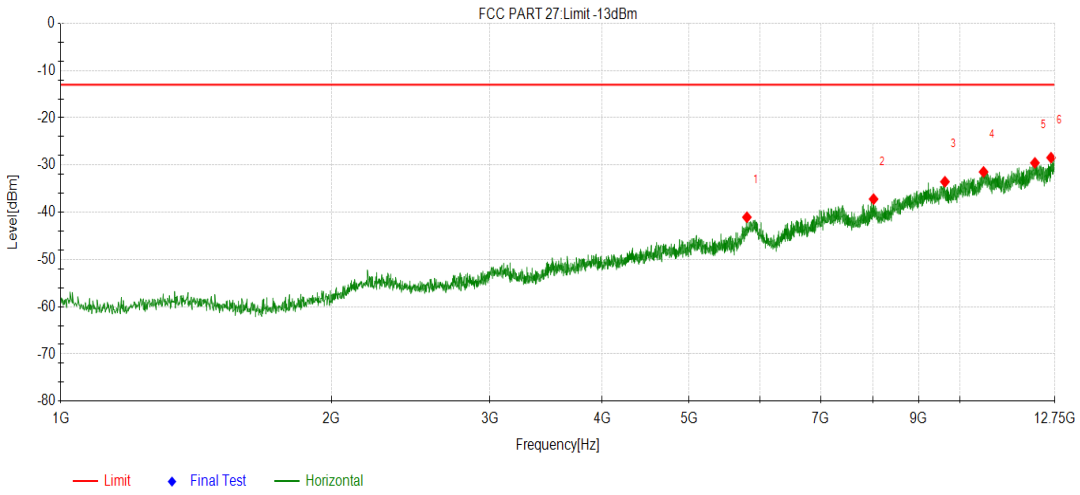


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5738.187	-49.55	-41.11	-13.00	28.11	8.44	311	146	Vertical
2	7428.718	-49.85	-36.88	-13.00	23.88	12.97	55	158	Vertical
3	9299.906	-49.19	-33.10	-13.00	20.10	16.09	71	137	Vertical
4	10670.25	-50.31	-29.67	-13.00	16.67	20.64	296	159	Vertical
5	11597.03	-50.41	-30.09	-13.00	17.09	20.32	82	149	Vertical
6	12159.56	-50.06	-28.86	-13.00	15.86	21.20	281	165	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 71 Tx Low CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

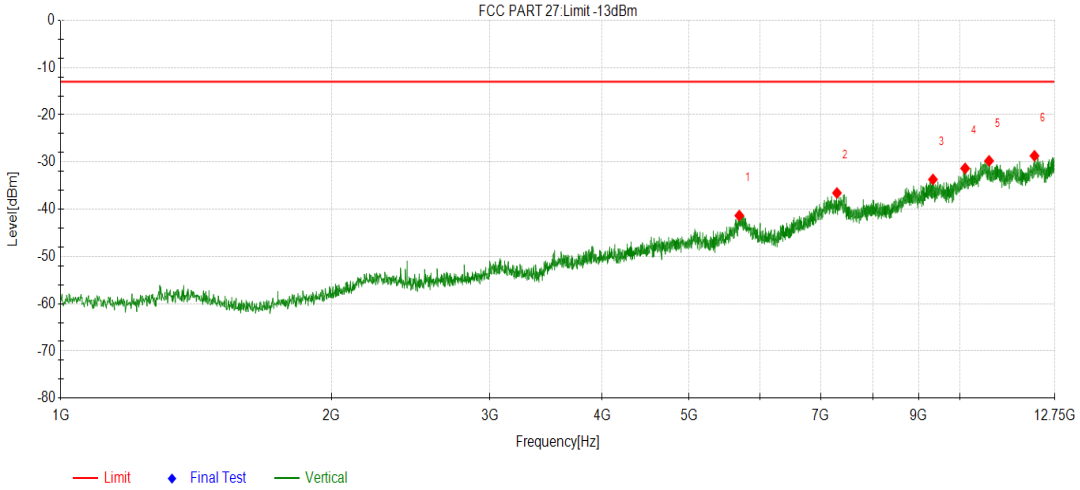


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5796.937	-49.20	-41.05	-13.00	28.05	8.15	219	156	Horizontal
2	8019.156	-49.26	-37.21	-13.00	24.21	12.05	141	149	Horizontal
3	9627.437	-49.85	-33.54	-13.00	20.54	16.31	207	137	Horizontal
4	10629.12	-50.57	-31.45	-13.00	18.45	19.12	161	148	Horizontal
5	12122.84	-50.64	-29.54	-13.00	16.54	21.10	209	137	Horizontal
6	12635.43	-50.35	-28.44	-13.00	15.44	21.91	158	144	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 71 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

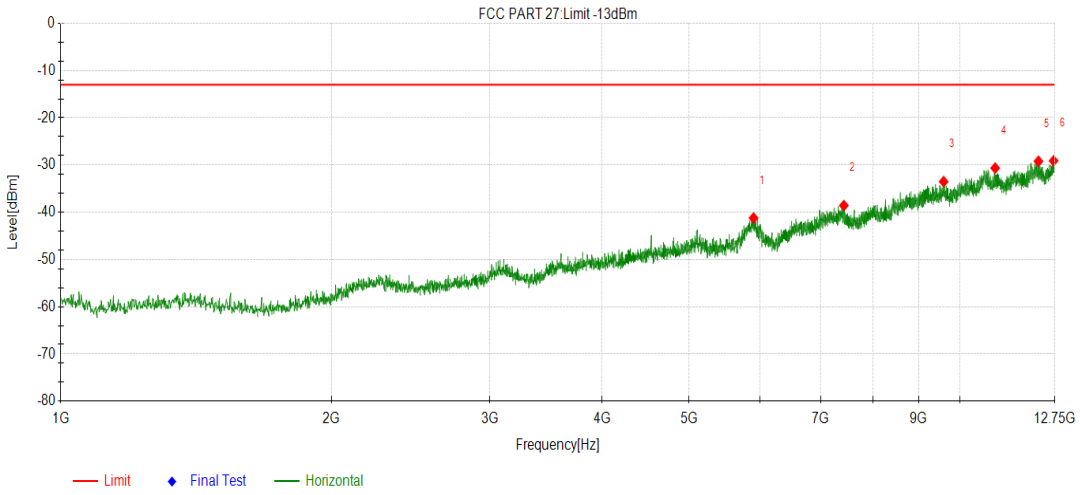


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5685.312	-49.65	-41.34	-13.00	28.34	8.31	151	159	Vertical
2	7300.937	-48.99	-36.55	-13.00	23.55	12.44	219	134	Vertical
3	9336.625	-49.68	-33.68	-13.00	20.68	16.00	331	166	Vertical
4	10138.56	-49.46	-31.34	-13.00	18.34	18.12	11	134	Vertical
5	10780.40	-49.86	-29.75	-13.00	16.75	20.11	44	154	Vertical
6	12111.09	-49.62	-28.68	-13.00	15.68	20.94	328	167	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 71 Tx Mid CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal

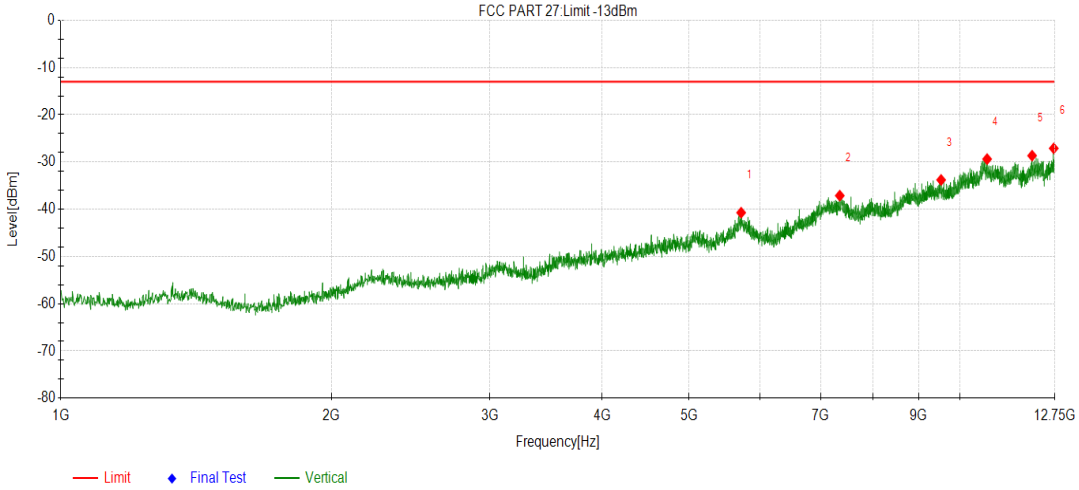


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5896.812	-50.22	-41.21	-13.00	28.21	9.01	114	157	Horizontal
2	7431.656	-49.82	-38.57	-13.00	25.57	11.25	253	137	Horizontal
3	9596.593	-50.07	-33.51	-13.00	20.51	16.56	108	158	Horizontal
4	10950.78	-49.61	-30.64	-13.00	17.64	18.97	264	146	Horizontal
5	12233.00	-50.52	-29.21	-13.00	16.21	21.31	337	162	Horizontal
6	12717.68	-51.36	-29.09	-13.00	16.09	22.27	39	155	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 71 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Vertical

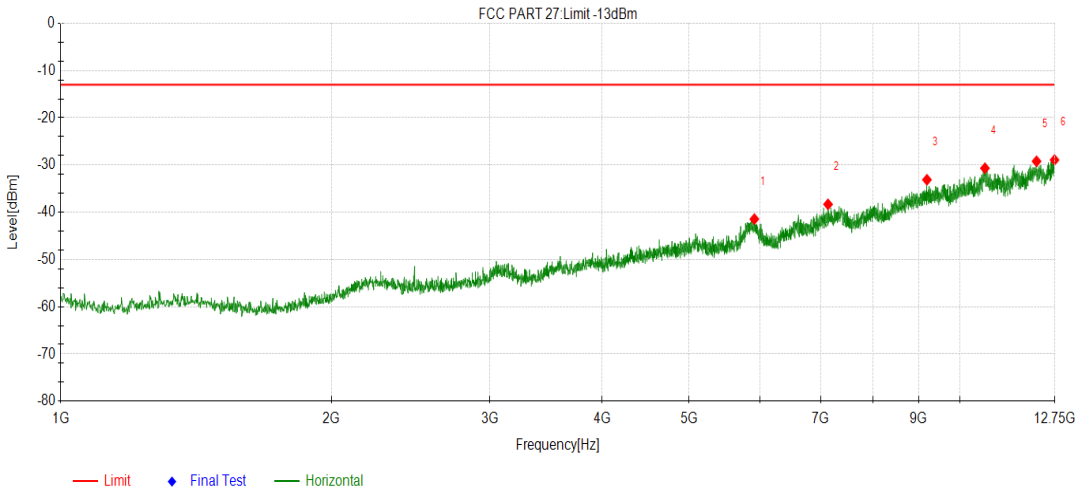


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5711.750	-49.35	-40.72	-13.00	27.72	8.63	129	156	Vertical
2	7353.812	-50.02	-37.12	-13.00	24.12	12.90	240	132	Vertical
3	9533.437	-49.79	-33.78	-13.00	20.78	16.01	156	161	Vertical
4	10726.06	-49.84	-29.37	-13.00	16.37	20.47	201	151	Vertical
5	12036.18	-49.44	-28.65	-13.00	15.65	20.79	112	158	Vertical
6	12723.56	-49.29	-27.10	-13.00	14.10	22.19	254	157	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

Product Name:	Smart Phone	Product model:	B110DL
Test By:	Mike	Test mode:	Band 71 Tx High CH
Test Voltage:	DC 3.8V	Polarization:	Horizontal



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [∘]	Height [cm]	Polarity
1	5908.562	-50.30	-41.44	-13.00	28.44	8.86	154	156	Horizontal
2	7136.437	-49.21	-38.32	-13.00	25.32	10.89	208	131	Horizontal
3	9194.156	-48.82	-33.11	-13.00	20.11	15.71	301	154	Horizontal
4	10665.84	-49.97	-30.67	-13.00	17.67	19.30	55	146	Horizontal
5	12175.71	-50.50	-29.21	-13.00	16.21	21.29	228	157	Horizontal
6	12748.53	-51.30	-28.92	-13.00	15.92	22.38	124	164	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.*

7. Appendix

The below Appendix was detail result tested by SGS-CSTC Standards Technical Services, Co., Ltd.Shenzhen Branch. (Date of Test: 2019/10/17-2019/10/31).

Appendix	*Item*
Appendix B.3 -LTE Band 2	*LTE Band 2*
Appendix B.4 -LTE Band 4	*LTE Band 4*
Appendix B.5 -LTE Band 5	*LTE Band 5*
Appendix B.6 -LTE Band 12	*LTE Band 12*
Appendix B.7 -LTE Band 13	*LTE Band 13*
Appendix B.8 -LTE Band 25	*LTE Band 25*
Appendix B.9 -LTE Band 26 814-824	*LTE Band 26 814-824*
Appendix B.10 -LTE Band 26 824-849	*LTE Band 26 824-849*
Appendix B.11 -LTE Band 41	*LTE Band 41*
Appendix B.12 -LTE Band 66	*LTE Band 66*
Appendix B.13 -LTE Band 71	*LTE Band 71*