

FCC REPORT (LTE)

Applicant: HMD global Oy
Address of Applicant: Bertel Jungin aukio 9, 02600 Espoo, Finland

Equipment Under Test (EUT)

Product Name: Smart Phone
Model No.: TA-1390
Trade mark: NOKIA

FCC ID: 2AJOTTA-1390

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
FCC CFR Title 47 Part 27 Subpart M
FCC CFR Title 47 Part 27 Subpart H
FCC CFR Title 47 Part 27 Subpart E
FCC CFR Title 47 Part 90 Subpart S

Date of sample receipt: 19 Aug., 2021
Date of Test: 20 Aug., to 28 Aug., 2021
Date of report issued: 29 Aug., 2021
Test Result: PASS*

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

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2. Version

Version No.	Date	Description
00	29 Aug., 2021	Original

Tested by: Mike.ou **Date:** 29 Aug., 2021
Test Engineer

Reviewed by: Winner Zhang **Date:** 29 Aug., 2021
Project Engineer

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4. Test Summary

Test Items	Section in CFR 47	Result
RF Output Power Effective Radiated Power and Effective Isotropic Radiated 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) Part 90.635 (b)	Refer to the report: SRTC2021-9004(F)-21082801(C)
Peak-to-Average Ratio	Part 24.232 (d) Part 22.913 (d) Part 27.50(d)(5)	Refer to the report: SRTC2021-9004(F)-21082801(C)
Occupied Bandwidth	Part 2.1049	Refer to the report: SRTC2021-9004(F)-21082801(C)
Emission Bandwidth	Part 2.1049	Refer to the report: SRTC2021-9004(F)-21082801(C)
Spurious Emissions 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) Part 90.691(a)	Refer to the report: SRTC2021-9004(F)-21082801(C)
Band Edges Compliance	Part 2.1051 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)	Refer to the report: SRTC2021-9004(F)-21082801(C)
Field strength of spurious radiation	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)	Pass
Frequency stability	Part 22.355 Part 24.235 Part 27.54 Part 90.213(a) Part 2.1055(d)(2)	Refer to the report: SRTC2021-9004(F)-21082801(C)
Remark:		
1. Pass: The EUT complies with the essential requirements in the standard.		
2. The report: SRTC2021-9004(F)-21082801(C), issued by The State Radio_monitoring_center Testing Center.		
Test Method:	ANSI/TIA-603-E-2016 ANSI C63.26-2015	

5. General Information

5.1 Client Information

Applicant:	HMD global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland
Manufacturer/ Factory:	HMD global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland

5.2 General Description of E.U.T.

Product Name:	Smart Phone			
Model No.:	TA-1390			
Operation Frequency range:	LTE Band 2:	Tx: 1850 MHz - 1910 MHz	Rx: 1930 MHz - 1990 MHz	
	LTE Band 4:	Tx: 1710 MHz - 1755 MHz	Rx: 2110 MHz - 2155 MHz	
	LTE Band 5:	Tx: 824 MHz - 849 MHz	Rx: 869 MHz - 894 MHz	
	LTE Band 7:	Tx: 2500 MHz - 2570 MHz	Rx: 2620 MHz - 2690 MHz	
	LTE Band 12:	Tx: 699 MHz - 716 MHz	Rx: 729 MHz - 746 MHz	
	LTE Band 13:	Tx: 777 MHz - 787 MHz	Rx: 746 MHz - 756 MHz	
	LTE Band 17:	Tx: 704 MHz - 716 MHz	Rx: 734 MHz - 746 MHz	
	LTE Band 25:	Tx: 1850 MHz - 1915 MHz	Rx: 1930 MHz - 1995 MHz	
	LTE Band 26:	Tx: 814 MHz - 849 MHz	Rx: 859 MHz - 894 MHz	
	LTE Band 38:	Tx: 2570 MHz - 2620 MHz	Rx: 2570 MHz - 2620 MHz	
	LTE Band 41:	Tx: 2496 MHz - 2690 MHz	Rx: 2496 MHz - 2690 MHz	
	LTE Band 66:	Tx: 1710 MHz - 1780 MHz	Rx: 2110 MHz - 2200 MHz	
	LTE Band CA_7C	Tx: 2500 MHz - 2700 MHz	Rx: 2620 MHz - 2690 MHz	
	LTE Band CA_38C	Tx: 2570 MHz - 2620 MHz	Rx: 2570 MHz - 2620 MHz	
	LTE Band CA_41C	Tx: 2496 MHz - 2690 MHz	Rx: 2496 MHz - 2690 MHz	
Modulation type:	<input checked="" type="checkbox"/> QPSK	<input checked="" type="checkbox"/> 16QAM	<input checked="" type="checkbox"/> 64QAM	<input checked="" type="checkbox"/> 256QAM
Antenna type:	Internal Antenna			
Antenna gain:	LTE Band 2:	-2.50 dBi(declare by Applicant)		
	LTE Band 4:	-2.50 dBi(declare by Applicant)		
	LTE Band 5:	-3.50 dBi(declare by Applicant)		
	LTE Band 7:	-2.00 dBi(declare by Applicant)		
	LTE Band 12:	-4.00 dBi(declare by Applicant)		
	LTE Band 13:	-4.00 dBi(declare by Applicant)		
	LTE Band 17:	-4.00 dBi(declare by Applicant)		
	LTE Band 38:	-2.00 dBi(declare by Applicant)		
	LTE Band 41:	-2.00 dBi(declare by Applicant)		
	LTE Band 66:	-2.50 dBi(declare by Applicant)		
Power supply:	Rechargeable Lithium ion Polymer Battery DC3.85V, 4.85Ah			
AC adapter:	Adapter 1: Model: TN-050200U3, TN-050200E3, TN-050200C3A Input: AC100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2.0A 10.0W Note: Only the pins are different between different models Adapter 2:			

	<p>Model: TN-050200U3, TN-050200A3, TN-050200C3A Input: AC100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2.0A 10.0W Note: Only the pins are different between different models Adapter 3: Model: AD-010A, AD-010X Input: AC100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2.0A 10.0W Note: Only the pins are different between different models</p>
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

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 7 (5MHz)		LTE Band 7 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20775	2502.50	20800	2505.00
20776	2502.60	20801	2502.10
....
21099	2534.90	21099	2534.90
21100	2535.00	21100	2535.00
21101	2535.20	21101	2535.20
....
21424	2567.40	21399	2564.90
21425	2567.50	21400	2565.00
LTE Band 7 (15MHz)		LTE Band 7 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20825	2507.50	20850	2510.00
20826	2507.60	20851	2510.10
....
21099	2534.90	21099	2534.90
21100	2535.00	21100	2535.00
21101	2535.20	21101	2535.20
....
21374	2562.40	21349	2559.90
21375	2562.50	21350	2560.00

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	23230	782.00
23206	779.60		
....		
23229	781.90		
23230	782.00		
23231	782.10		
....		
23254	784.40		
23255	784.50		

LTE Band 17 (5MHz)		LTE Band 17 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23755	706.50	23780	782.00
23756	706.60	23781	
....
23789	709.90	23789	709.90
23790	710.00	23790	710.00
23791	710.10	23791	710.10
....		
23824	713.40	23799	710.90
23825	713.50	23800	711.00

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 38 (5MHz)		LTE Band 38 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
37775	2572.50	37800	2575.00
37776	2572.60	37801	2575.10
....		
37999	2594.90	37999	2594.90
38000	2595.00	38000	2595.00
38001	2595.10	38001	2595.10
...
38224	2617.40	38199	2614.90
38225	2617.50	38200	2615.00
LTE Band 38 (15MHz)		LTE Band 38 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
37825	2577.50	37850	2580.00
37826	2577.60	37851	2580.10
....
37999	2594.90	37999	2594.90
38000	2595.00	38000	2595.00
38001	2595.10	38001	2595.10
...
38174	2612.40	38149	2609.90
38175	2612.50	38150	2610.00

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	2592.90	40619	2592.90
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	2592.90	40619	2592.90
40620	2593.00	40620	2593.00
40621	2593.10	40621	2593.10
....
41514	2682.40	41489	2680.90
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

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see 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	825.5
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 7 (5MHz)			LTE Band 7 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20775	2502.50	Lowest channel	20800	2505.00
Middle channel	21100	2535.00	Middle channel	21100	2535.00
Highest channel	21425	2567.50	Highest channel	21400	2565.00
LTE Band 7 (15MHz)			LTE Band 7 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20825	2507.50	Lowest channel	20850	2510.00
Middle channel	21100	2535.00	Middle channel	21100	2535.00
Highest channel	21375	2562.50	Highest channel	21350	2560.00

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	779.50	Lowest channel	23230	782.00
Middle channel	23230	782.00	Middle channel	23230	782.00
Highest channel	23255	784.50	Highest channel	23230	782.00

LTE Band 17(5MHz)			LTE Band 17(10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	23755	706.50	Lowest channel	23780	709.00
Middle channel	23790	710.00	Middle channel	23790	710.00
Highest channel	23825	713.50	Highest channel	23800	711.00

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(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			LTE Band 26(15MHz) (Straddling Part 22H, 90S)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	26865	831.5	Lowest channel	26765	821.5
Middle Channel	26915	836.5	/	/	/
Highest channel	26965	841.5	/	/	/

LTE Band 38 (5MHz)			LTE Band 38 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	37775	2572.50	Lowest channel	37800	2575.00
Middle channel	38000	2595.00	Middle channel	38000	2595.00
Highest channel	38225	2617.50	Highest channel	38200	2615.00
LTE Band 38 (15MHz)			LTE Band 38 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	37825	2577.50	Lowest channel	37850	2580.00
Middle channel	38000	2595.00	Middle channel	38000	2595.00
Highest channel	38175	2612.50	Highest channel	38150	2610.00

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 (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

FDD reference test frequencies for CA in operating band 7

Range	CC-Combo / N _{RB_agg} [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]
Low	50+100	50	20805	2505.5	2805	2625.5	100	20949	2519.9	2949	2639.9
		100	20850	2510	2850	2630	50	20994	2524.4	2994	2644.4
	75+50	75	20825	2507.5	2825	2627.5	50	20945	2519.5	2945	2639.5
	75+75	75	20825	2507.5	2825	2627.5	75	20975	2522.5	2975	2642.5
	75+100	75	20828	2507.8	2828	2627.8	100	20999	2524.9	2999	2644.9
		100	20850	2510	2850	2630	75	21021	2527.1	3021	2647.1
100+100	100	20850	2510	2850	2630	100	21048	2529.8	3048	2649.8	
Mid	50+100	50	21006	2525.6	3006	2645.6	100	21150	2540	3150	2660
		100	21051	2530.1	3051	2650.1	50	21195	2544.5	3195	2664.5
	75+50	75	21051	2530.1	3051	2650.1	50	21171	2542.1	3171	2662.1
	75+75	75	21025	2527.5	3025	2647.5	75	21175	2542.5	3175	2662.5
	75+100	75	21003	2525.3	3003	2645.3	100	21174	2542.4	3174	2662.4
		100	21026	2527.6	3026	2647.6	75	21197	2544.7	3197	2664.7
100+100	100	21001	2525.1	3001	2645.1	100	21199	2544.9	3199	2664.9	
High	50+100	50	21206	2545.6	3206	2665.6	100	21350	2560	3350	2680
		100	21251	2550.1	3251	2670.1	50	21395	2564.5	3395	2684.5
	75+50	75	21277	2552.7	3277	2672.7	50	21397	2564.7	3397	2684.7
	75+75	75	21225	2547.5	3225	2667.5	75	21375	2562.5	3375	2682.5
	75+100	75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680
		100	21201	2545.1	3201	2665.1	75	21372	2562.2	3372	2682.2
100+100	100	21152	2540.2	3152	2660.2	100	21350	2560	3350	2680	

Note 1: Carriers in increasing frequency order.

TDD reference test frequencies for CA in operating band 38

Range	CC-Combo / N _{RB_agg} [RB]	CC1 Note1			CC2 Note1		
		BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]	BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]
Low	75+75	75	37825	2577.5	75	37975	2592.5
	100+100	100	37850	2580	100	38048	2599.8
Mid	75+75	75	37925	2587.5	75	38075	2602.5
	100+100	100	37901	2585.1	100	38099	2604.9
High	75+75	75	38025	2597.5	75	38175	2612.5
	100+100	100	37952	2590.2	100	38150	2610

Note 1: Carriers in increasing frequency order.

TDD reference test frequencies for CA in operating band 41

Range	CC-Combo / NRB_agg [RB]	CC1 Note1			CC2 Note1		
		BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]	BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]
Low	25+100	25	39683	2499.3	100	39800	2511
		100	39750	2506	25	39867	2517.7
	50+75	50	39703	2501.3	75	39823	2513.3
		75	39725	2503.5	50	39845	2515.5
	50+100	50	39705	2501.5	100	39849	2515.9
		100	39750	2506	50	39894	2520.4
	75+75	75	39725	2503.5	75	39875	2518.5
	75+100	75	39728	2503.8	100	39899	2520.9
100		39750	2506	75	39921	2523.1	
100+100	100	39750	2506	100	39948	2525.8	
Mid	25+100	25	40528	2583.8	100	40645	2595.5
		100	40595	2590.5	25	40712	2602.2
	50+75	50	40549	2585.9	75	40669	2597.9
		75	40571	2588.1	50	40691	2600.1
	50+100	50	40526	2583.6	100	40670	2598.0
		100	40571	2588.1	50	40715	2602.5
	75+75	75	40545	2585.5	75	40695	2600.5
	75+100	75	40523	2583.3	100	40694	2600.4
100		40546	2585.6	75	40717	2602.7	
100+100	100	40521	2583.1	100	40719	2602.9	
High	25+100	25	41373	2668.3	100	41490	2680
		100	41440	2675	25	41557	2686.7
	50+75	50	41395	2670.5	75	41515	2682.5
		75	41417	2672.7	50	41537	2684.7
	50+100	50	41346	2665.6	100	41490	2680
		100	41391	2670.1	50	41535	2684.5
	75+75	75	41365	2667.5	75	41515	2682.5
	75+100	75	41319	2662.9	100	41490	2680
100		41341	2665.1	75	41512	2682.2	
100+100	100	41292	2660.2	100	41490	2680	

Note 1: Carriers in increasing frequency order.

5.3 Test environment and mode

Operating Environment:	
Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.85Vdc, Extreme: Low 3.4 Vdc, High 4.4 Vdc
Test mode:	
TM1 mode	Keep the EUT communication with simulated station in QPSK mode
TM2 mode	Keep the EUT communication with simulated station in 16QAM mode
TM3 mode	Keep the EUT communication with simulated station in 64QAM mode
TM4 mode	Keep the EUT communication with simulated station in 256QAM 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 Test Auxiliary Equipment

Test Equipment	Manufacturer	Model No.	Serial No.
Simulated Station	Rohde & Schwarz	CMW500	140493

5.5 Additions to, deviations, or exclusions from the method

No

5.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radiated Emission (9kHz ~ 30MHz) (3m SAC)	±3.13 dB
Radiated Emission (30MHz ~ 1000MHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB
<i>Note: The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.26-2015. All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.</i>	

5.7 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● 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 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. ● 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
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5.8 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

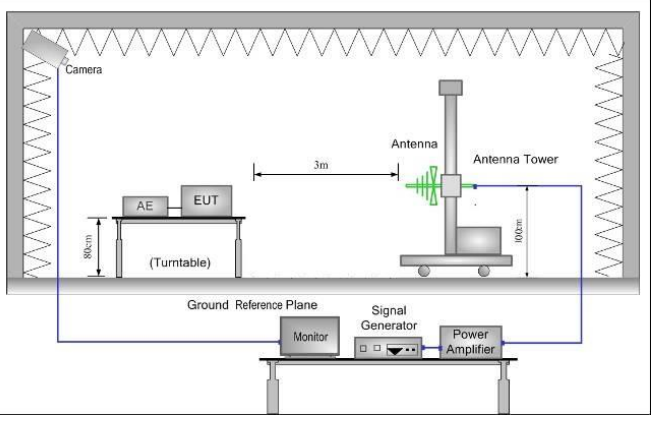
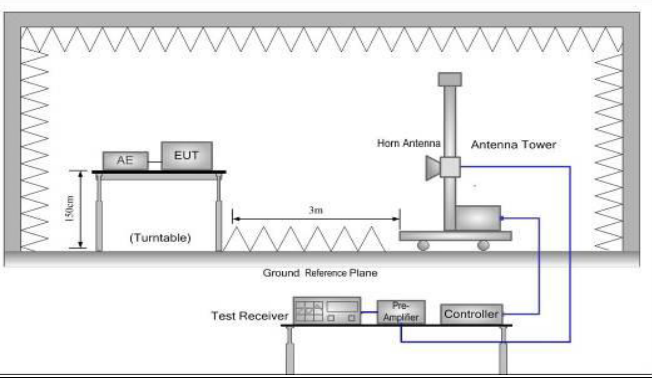
Email: info-JYTee@lets.com, Website: <http://www.ccis-cb.com>

5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Management Number	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	WXJ002	03-03-2021	03-02-2022
Biconical Antenna	SCHWARZBECK	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	WXJ002-2	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Loop Antenna	SCHWARZBECK	FMZB 1519 B	WXJ002-4	03-07-2021	03-06-2022
Pre-amplifier (30MHz ~ 1GHz)	HP	8447D	WXG001-2	03-07-2021	03-06-2022
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	03-07-2021	03-06-2022
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	03-07-2021	03-06-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	WXJ004	03-03-2021	03-02-2022
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	11-27-2020	11-26-2021
Signal Generator	Agilent	N5173B	WXJ006-7	03-25-2021	03-24-2022
Simulated Station	Rohde & Schwarz	CMW500	WXJ008-3	06-17-2021	06-16-2022
Coaxial Cable (30MHz ~ 1GHz)	JYT	JYT3M-1G-NN-8M	WXG001-4	03-07-2021	03-06-2022
Coaxial Cable (1GHz ~ 18GHz)	JYT	JYT3M-18G-NN-8M	WXG001-5	03-07-2021	03-06-2022
Coaxial Cable (9kHz ~ 30MHz)	JYT	JYT3M-1G-BB-5M	WXG001-6	03-07-2021	03-06-2022
Coaxial Cable (1GHz ~ 18GHz)	JYT	JYT3M-40G-SS-8M	WXG001-7	03-07-2021	03-06-2022
RF Switch Unit	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

6. Test results

6.1 Field strength of spurious radiation measurement

<p>Test Requirement:</p>	<p>Part 2.1053, Part 22.917 (a), Part 24.238 (a), Part 27.53 (f), Part 27.53 (g), Part 27.53 (h), Part 27.53 (m), Part 90.691 (a)</p>
<p>Limit:</p>	<p>-13dBm for band 2/4/5/12/13/17/25/26/66 -25dBm for band 7/38/41/ CA_7C/ CA_38C/ CA_41C</p>
<p>Test setup:</p>	<p>Below 1GHz</p>  <p>Above 1GHz</p> 
<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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. $ERP / EIRP = S.G. \text{ output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
<p>Test Instruments:</p>	<p>Refer to section 5.9 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details.</p>
<p>Test results:</p>	<p>Passed</p>

Measurement Data (worst case):

LTE Band 2					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1212.0265	20.99	-49.78	-13.00	36.78	Horizontal
2686.4608	21.09	-44.84	-13.00	31.84	Horizontal
3702.0351	53.63	-61.68	-13.00	48.68	Horizontal
5553.1277	53.59	-54.30	-13.00	41.30	Horizontal
11218.1609	46.68	-49.04	-13.00	36.04	Horizontal
17759.2380	46.84	-47.88	-13.00	34.88	Horizontal
1283.0354	20.46	-49.96	-13.00	36.96	Vertical
2513.1891	21.32	-45.36	-13.00	32.36	Vertical
3702.0351	54.29	-61.02	-13.00	48.02	Vertical
5553.1277	55.57	-52.32	-13.00	39.32	Vertical
11269.9135	46.46	-49.44	-13.00	36.44	Vertical
17950.4975	46.04	-46.80	-13.00	33.80	Vertical

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

LTE Band 2					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1288.2860	20.80	-49.73	-13.00	36.73	Horizontal
2619.7025	20.89	-45.33	-13.00	32.33	Horizontal
5613.1307	53.70	-54.10	-13.00	41.10	Horizontal
11011.1506	45.15	-50.76	-13.00	37.76	Horizontal
16410.6705	46.46	-47.48	-13.00	34.48	Horizontal
17995.4998	47.30	-46.49	-13.00	33.49	Horizontal
1169.0211	20.66	-49.59	-13.00	36.59	Vertical
2552.4441	21.45	-45.42	-13.00	32.42	Vertical
3741.7871	53.04	-61.64	-13.00	48.64	Vertical
5613.1307	57.25	-50.55	-13.00	37.55	Vertical
11218.9109	46.55	-49.17	-13.00	36.17	Vertical
17813.2407	47.07	-47.13	-13.00	34.13	Vertical

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

LTE Band 2					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1154.7693	20.97	-49.34	-13.00	36.34	Horizontal
2638.7048	21.26	-45.04	-13.00	32.04	Horizontal
3782.2891	55.45	-59.15	-13.00	46.15	Horizontal
5673.1337	55.17	-51.96	-13.00	38.96	Horizontal
11359.9180	45.22	-50.42	-13.00	37.42	Horizontal
17996.2498	47.47	-46.33	-13.00	33.33	Horizontal
1156.7696	21.16	-49.21	-13.00	36.21	Vertical
2726.2158	21.07	-44.68	-13.00	31.68	Vertical
3782.2891	55.31	-59.29	-13.00	46.29	Vertical
5673.1337	56.22	-50.91	-13.00	37.91	Vertical
12320.7160	45.09	-49.09	-13.00	36.09	Vertical
17952.7476	46.23	-46.66	-13.00	33.66	Vertical

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

LTE Band 4					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1260.0325	20.98	-49.34	-13.00	36.34	Horizontal
2415.1769	21.32	-45.65	-13.00	32.65	Horizontal
3422.2711	58.13	-57.86	-13.00	44.86	Horizontal
5133.1067	55.32	-54.25	-13.00	41.25	Horizontal
11188.9094	46.37	-49.25	-13.00	36.25	Horizontal
17666.9833	46.19	-48.72	-13.00	35.72	Horizontal
1189.7737	20.91	-49.59	-13.00	36.59	Vertical
2349.9187	21.02	-46.46	-13.00	33.46	Vertical
3422.2711	56.24	-59.75	-13.00	46.75	Vertical
5133.1067	55.11	-54.46	-13.00	41.46	Vertical
10605.3803	46.04	-50.81	-13.00	37.81	Vertical
16400.9200	46.42	-47.34	-13.00	34.34	Vertical

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

LTE Band 4					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1083.5104	20.93	-49.27	-13.00	36.27	Horizontal
2501.1876	21.30	-45.25	-13.00	32.25	Horizontal
3447.0224	61.88	-54.06	-13.00	41.06	Horizontal
5170.6085	55.36	-53.90	-13.00	40.90	Horizontal
9003.3002	47.34	-51.59	-13.00	38.59	Horizontal
14060.8030	44.45	-47.61	-13.00	34.61	Horizontal
1149.7687	20.90	-49.30	-13.00	36.30	Vertical
2683.9605	21.36	-44.62	-13.00	31.62	Vertical
3447.0224	56.60	-59.34	-13.00	46.34	Vertical
5170.6085	55.99	-53.27	-13.00	40.27	Vertical
7463.4732	48.29	-54.04	-13.00	41.04	Vertical
13004.7502	44.73	-47.75	-13.00	34.75	Vertical

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

LTE Band 4					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1164.0205	20.88	-50.56	-13.00	37.56	Horizontal
2509.1886	21.41	-46.95	-13.00	33.95	Horizontal
3472.5236	59.46	-58.64	-13.00	45.64	Horizontal
5208.1104	53.12	-58.51	-13.00	45.51	Horizontal
11234.6617	46.54	-49.35	-13.00	36.35	Horizontal
16531.4266	45.82	-45.09	-13.00	32.09	Horizontal
1261.2827	20.64	-50.65	-13.00	37.65	Vertical
2700.9626	21.07	-46.84	-13.00	33.84	Vertical
3472.5236	54.78	-63.32	-13.00	50.32	Vertical
5208.1104	54.69	-56.94	-13.00	43.94	Vertical
11894.6947	45.09	-48.41	-13.00	35.41	Vertical
16397.9199	46.22	-44.18	-13.00	31.18	Vertical

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

LTE Band 5					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1177.3089	22.34	-67.59	-13.00	54.59	Horizontal
1940.4470	22.40	-65.90	-13.00	52.90	Horizontal
2955.5978	21.99	-63.70	-13.00	50.70	Horizontal
4840.3920	50.46	-62.93	-13.00	49.93	Horizontal
6955.1978	48.96	-57.19	-13.00	44.19	Horizontal
8841.0921	47.07	-54.29	-13.00	41.29	Horizontal
1195.8098	22.46	-67.53	-13.00	54.53	Vertical
2225.5613	22.34	-65.23	-13.00	52.23	Vertical
4162.0581	50.89	-64.92	-13.00	51.92	Vertical
6366.4683	48.92	-58.90	-13.00	45.90	Vertical
8406.0203	48.08	-54.19	-13.00	41.19	Vertical
1195.8098	22.46	-67.53	-13.00	54.53	Vertical

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

LTE Band 5					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1259.9130	22.48	-67.97	-13.00	54.97	Horizontal
1786.1393	22.18	-66.87	-13.00	53.87	Horizontal
2977.1989	22.12	-63.50	-13.00	50.50	Horizontal
4513.4757	50.91	-63.57	-13.00	50.57	Horizontal
6948.5474	48.67	-57.52	-13.00	44.52	Horizontal
9041.3021	47.29	-53.35	-13.00	40.35	Horizontal
1177.6089	21.91	-68.02	-13.00	55.02	Vertical
2312.2656	22.18	-65.35	-13.00	52.35	Vertical
3946.0973	51.48	-65.45	-13.00	52.45	Vertical
6354.9177	49.19	-58.66	-13.00	45.66	Vertical
7487.2244	48.56	-55.20	-13.00	42.20	Vertical
8975.1488	47.13	-53.61	-13.00	40.61	Vertical

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

LTE Band 5					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1073.9037	21.96	-68.38	-13.00	55.38	Horizontal
2207.9604	22.19	-65.24	-13.00	52.24	Horizontal
4159.6080	51.44	-64.37	-13.00	51.37	Horizontal
7378.3689	48.75	-56.05	-13.00	43.05	Horizontal
9011.5506	47.18	-53.37	-13.00	40.37	Horizontal
1073.9037	21.96	-68.38	-13.00	55.38	Horizontal
1169.2085	22.24	-67.66	-13.00	54.66	Vertical
2104.4552	22.14	-65.85	-13.00	52.85	Vertical
2968.4984	22.07	-63.58	-13.00	50.58	Vertical
5112.7056	50.18	-62.31	-13.00	49.31	Vertical
7901.9951	48.42	-54.84	-13.00	41.84	Vertical
9032.2016	47.75	-52.86	-13.00	39.86	Vertical

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

LTE Band 7					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1188.0235	20.72	-50.82	-25.00	25.82	Horizontal
2941.2427	20.93	-46.39	-25.00	21.39	Horizontal
4316.3158	51.11	-64.54	-25.00	39.54	Horizontal
8983.0492	47.33	-53.34	-25.00	28.34	Horizontal
12963.4982	44.98	-47.34	-25.00	22.34	Horizontal
16397.1699	46.40	-44.02	-25.00	19.02	Horizontal
1240.5301	20.58	-50.78	-25.00	25.78	Vertical
2943.2429	21.06	-46.25	-25.00	21.25	Vertical
7973.4987	47.79	-55.19	-25.00	30.19	Vertical
11905.1953	44.93	-48.53	-25.00	23.53	Vertical
15027.6014	44.30	-46.02	-25.00	21.02	Vertical
16412.9206	46.56	-44.04	-25.00	19.04	Vertical

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

LTE Band 7					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1185.2732	20.94	-50.63	-25.00	25.63	Horizontal
2948.2435	21.08	-46.21	-25.00	21.21	Horizontal
6036.1518	48.94	-59.78	-25.00	34.78	Horizontal
11754.4377	45.16	-49.37	-25.00	24.37	Horizontal
15037.3519	44.45	-45.95	-25.00	20.95	Horizontal
16399.4200	46.60	-43.77	-25.00	18.77	Horizontal
1239.2799	20.84	-50.55	-25.00	25.55	Vertical
2940.2425	20.78	-46.54	-25.00	21.54	Vertical
4903.5952	50.13	-63.03	-25.00	38.03	Vertical
7473.2237	48.31	-55.58	-25.00	30.58	Vertical
11240.6620	46.82	-49.09	-25.00	24.09	Vertical
16931.9466	44.80	-45.39	-25.00	20.39	Vertical

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

LTE Band 7					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1180.7726	20.87	-50.75	-13.00	37.75	Horizontal
2909.4887	21.07	-46.47	-13.00	33.47	Horizontal
5392.6196	48.84	-62.12	-13.00	49.12	Horizontal
11753.6877	45.46	-49.07	-13.00	36.07	Horizontal
15017.8509	44.15	-46.10	-13.00	33.10	Horizontal
16864.4432	45.46	-45.21	-13.00	32.21	Horizontal
1258.0323	20.93	-50.41	-13.00	37.41	Vertical
2966.9959	21.35	-46.14	-13.00	33.14	Vertical
4303.5652	52.18	-63.53	-13.00	50.53	Vertical
7971.2486	47.97	-55.02	-13.00	42.02	Vertical
11710.9355	45.73	-48.99	-13.00	35.99	Vertical
15931.3966	44.70	-45.84	-13.00	32.84	Vertical

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

LTE Band 12					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1040.4020	21.66	-68.24	-13.00	55.24	Horizontal
2006.7503	22.36	-65.97	-13.00	52.97	Horizontal
3145.2573	52.76	-65.78	-13.00	52.78	Horizontal
4635.9818	51.12	-63.19	-13.00	50.19	Horizontal
6507.5254	48.38	-58.17	-13.00	45.17	Horizontal
9485.4743	46.67	-53.07	-13.00	40.07	Horizontal
1201.9101	22.33	-67.69	-13.00	54.69	Vertical
1823.6412	22.15	-66.69	-13.00	53.69	Vertical
2985.1993	22.19	-63.41	-13.00	50.41	Vertical
4553.0277	51.10	-63.45	-13.00	50.45	Vertical
6961.1481	48.74	-57.38	-13.00	44.38	Vertical
9015.7508	47.36	-53.20	-13.00	40.20	Vertical

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

LTE Band 12					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1164.2082	22.12	-67.77	-13.00	54.77	Horizontal
2228.4614	22.37	-65.22	-13.00	52.22	Horizontal
2991.1996	22.02	-63.56	-13.00	50.56	Horizontal
5363.3182	49.10	-62.01	-13.00	49.01	Horizontal
7482.6741	48.33	-55.47	-13.00	42.47	Horizontal
9886.5943	46.04	-52.97	-13.00	39.97	Horizontal
1180.9090	21.91	-68.03	-13.00	55.03	Vertical
2553.3777	22.47	-64.47	-13.00	51.47	Vertical
2971.7986	22.29	-63.35	-13.00	50.35	Vertical
4398.6699	51.24	-63.87	-13.00	50.87	Vertical
6985.6493	48.52	-57.49	-13.00	44.49	Vertical
9543.5772	46.82	-52.98	-13.00	39.98	Vertical

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

LTE Band 12					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1189.2095	21.97	-68.00	-13.00	55.00	Horizontal
2423.9712	22.54	-64.46	-13.00	51.46	Horizontal
4141.0571	50.80	-65.19	-13.00	52.19	Horizontal
6020.3010	49.53	-59.35	-13.00	46.35	Horizontal
7495.6248	48.37	-55.30	-13.00	42.30	Horizontal
9042.3521	47.11	-53.54	-13.00	40.54	Horizontal
1267.1134	22.15	-68.25	-13.00	55.25	Vertical
1996.5498	22.22	-66.12	-13.00	53.12	Vertical
3742.0371	51.93	-65.66	-13.00	52.66	Vertical
6204.7602	48.75	-59.72	-13.00	46.72	Vertical
7883.7942	48.41	-54.74	-13.00	41.74	Vertical
9527.8264	46.45	-53.34	-13.00	40.34	Vertical

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

LTE Band 13					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1555.1278	29.35	-60.29	-13.00	47.29	Horizontal
1608.6304	20.88	-68.73	-40.00	28.73	Horizontal
1942.4471	31.31	-56.99	-13.00	43.99	Horizontal
2965.0983	22.05	-63.61	-13.00	50.61	Horizontal
5441.3721	48.95	-61.60	-13.00	48.60	Horizontal
8520.4760	47.63	-54.20	-13.00	41.20	Horizontal
1555.2278	24.53	-65.11	-13.00	52.11	Vertical
1600.6300	21.53	-68.14	-40.00	28.14	Vertical
2962.2981	22.52	-63.15	-13.00	50.15	Vertical
5692.6846	49.12	-60.00	-13.00	47.00	Vertical
7487.5744	48.34	-55.41	-13.00	42.41	Vertical
8979.6990	47.41	-53.29	-13.00	40.29	Vertical

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

LTE Band 17					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1322.9161	21.94	-68.14	-13.00	55.14	Horizontal
2092.7546	21.91	-66.10	-13.00	53.10	Horizontal
2994.8997	22.15	-63.42	-13.00	50.42	Horizontal
4726.6363	50.77	-62.80	-13.00	49.80	Horizontal
6751.1376	48.97	-57.12	-13.00	44.12	Horizontal
9033.9517	48.07	-52.55	-13.00	39.55	Horizontal
1085.0043	21.48	-68.90	-13.00	55.90	Vertical
2288.1644	21.96	-65.47	-13.00	52.47	Vertical
4211.4106	51.50	-64.19	-13.00	51.19	Vertical
5684.2842	50.25	-58.97	-13.00	45.97	Vertical
7129.5065	48.06	-57.25	-13.00	44.25	Vertical
8998.9499	47.58	-52.94	-13.00	39.94	Vertical

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

LTE Band 17					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1222.0111	21.98	-68.25	-13.00	55.25	Horizontal
2285.1643	21.76	-65.70	-13.00	52.70	Horizontal
4208.2604	51.48	-64.22	-13.00	51.22	Horizontal
5976.5488	50.21	-59.23	-13.00	46.23	Horizontal
7362.2681	49.08	-55.69	-13.00	42.69	Horizontal
9341.2671	47.21	-52.92	-13.00	39.92	Horizontal
1259.2130	21.85	-68.61	-13.00	55.61	Vertical
2204.1602	21.73	-65.67	-13.00	52.67	Vertical
3391.3196	56.77	-61.88	-13.00	48.88	Vertical
5690.9345	49.64	-59.50	-13.00	46.50	Vertical
7465.1733	49.13	-54.84	-13.00	41.84	Vertical
9327.9664	47.25	-52.99	-13.00	39.99	Vertical

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

LTE Band 17					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1424.8212	22.08	-67.68	-13.00	54.68	Horizontal
2742.6871	21.74	-64.63	-13.00	51.63	Horizontal
4193.5597	51.67	-64.07	-13.00	51.07	Horizontal
6004.2002	49.89	-59.17	-13.00	46.17	Horizontal
7532.7266	48.69	-55.45	-13.00	42.45	Horizontal
9549.5275	47.40	-52.41	-13.00	39.41	Horizontal
1320.4160	21.71	-68.38	-13.00	55.38	Vertical
2017.4509	22.01	-66.31	-13.00	53.31	Vertical
3188.3094	52.80	-66.31	-13.00	53.31	Vertical
4915.2958	50.57	-62.48	-13.00	49.48	Vertical
6717.1859	49.23	-57.45	-13.00	44.45	Vertical
9040.2520	47.64	-53.00	-13.00	40.00	Vertical

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

LTE Band 25					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1243.7805	20.79	-50.68	-13.00	37.68	Horizontal
3702.0351	54.95	-63.23	-13.00	50.23	Horizontal
5553.1277	52.23	-57.95	-13.00	44.95	Horizontal
7856.4928	47.57	-55.38	-13.00	42.38	Horizontal
12409.9705	45.80	-47.54	-13.00	34.54	Horizontal
16440.6720	46.85	-44.27	-13.00	31.27	Horizontal
1260.7826	21.09	-50.19	-13.00	37.19	Vertical
2999.7500	21.04	-46.10	-13.00	33.10	Vertical
3702.0351	54.46	-63.72	-13.00	50.72	Vertical
5553.1277	54.03	-56.15	-13.00	43.15	Vertical
9418.0709	46.24	-53.45	-13.00	40.45	Vertical
15038.1019	44.17	-46.23	-13.00	33.23	Vertical

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

LTE Band 25					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1150.0188	20.91	-50.38	-13.00	37.38	Horizontal
2945.2432	20.94	-46.36	-13.00	33.36	Horizontal
3741.7871	53.87	-63.72	-13.00	50.72	Horizontal
5613.1307	52.49	-57.58	-13.00	44.58	Horizontal
10629.3815	46.27	-51.06	-13.00	38.06	Horizontal
15932.1466	44.52	-46.02	-13.00	33.02	Horizontal
1259.5324	20.80	-50.47	-13.00	37.47	Vertical
2507.9385	21.49	-46.86	-13.00	33.86	Vertical
3741.7871	53.98	-63.61	-13.00	50.61	Vertical
5613.1307	54.54	-55.53	-13.00	42.53	Vertical
10672.8836	46.33	-51.19	-13.00	38.19	Vertical
16394.9197	46.23	-44.23	-13.00	31.23	Vertical

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

LTE Band 25					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1242.2803	21.03	-50.39	-13.00	37.39	Horizontal
2503.9380	21.20	-47.11	-13.00	34.11	Horizontal
3792.0396	54.18	-63.40	-13.00	50.40	Horizontal
5688.1344	51.01	-58.16	-13.00	45.16	Horizontal
10657.8829	46.68	-50.71	-13.00	37.71	Horizontal
16411.4206	46.50	-44.07	-13.00	31.07	Horizontal
1240.0300	20.68	-50.66	-13.00	37.66	Vertical
2736.7171	21.10	-46.82	-13.00	33.82	Vertical
3792.0396	54.78	-62.80	-13.00	49.80	Vertical
5688.1344	53.27	-55.90	-13.00	42.90	Vertical
11239.1620	46.41	-49.49	-13.00	36.49	Vertical
16397.1699	46.37	-44.05	-13.00	31.05	Vertical

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

LTE Band 26-10M					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1073.2037	21.65	-68.69	-13.00	55.69	Horizontal
1629.2315	27.20	-62.23	-13.00	49.23	Horizontal
2380.0690	22.52	-64.87	-13.00	51.87	Horizontal
5699.3350	49.25	-59.78	-13.00	46.78	Horizontal
7939.0970	47.79	-55.36	-13.00	42.36	Horizontal
9516.9758	46.62	-53.16	-13.00	40.16	Horizontal
1213.5107	22.20	-67.94	-13.00	54.94	Vertical
1629.3315	24.20	-65.23	-13.00	52.23	Vertical
2641.6821	22.41	-64.36	-13.00	51.36	Vertical
5695.8348	49.05	-60.02	-13.00	47.02	Vertical
7474.6237	48.62	-55.26	-13.00	42.26	Vertical
9367.8684	46.59	-53.34	-13.00	40.34	Vertical

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

LTE Band 26-15M					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1649.5325	26.15	-63.11	-13.00	50.11	Horizontal
2462.1731	24.37	-62.81	-13.00	49.81	Horizontal
2919.0960	22.65	-63.55	-13.00	50.55	Horizontal
5715.4358	49.79	-59.57	-13.00	46.57	Horizontal
7479.1740	48.85	-54.98	-13.00	41.98	Horizontal
9019.9510	47.12	-53.45	-13.00	40.45	Horizontal
1192.1096	22.29	-67.69	-13.00	54.69	Vertical
1885.7443	27.38	-61.12	-13.00	48.12	Vertical
2989.0995	21.97	-63.61	-13.00	50.61	Vertical
5605.1803	49.80	-60.35	-13.00	47.35	Vertical
7464.1232	48.46	-55.52	-13.00	42.52	Vertical
9007.0004	47.12	-53.41	-13.00	40.41	Vertical

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

LTE Band 26-15M					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1168.8084	21.98	-67.92	-13.00	54.92	Horizontal
1941.2471	25.19	-63.11	-13.00	50.11	Horizontal
2925.6963	22.36	-63.74	-13.00	50.74	Horizontal
3402.5201	55.02	-63.68	-13.00	50.68	Horizontal
6007.7004	49.37	-59.65	-13.00	46.65	Horizontal
8502.2751	47.36	-54.75	-13.00	41.75	Horizontal
1214.1107	22.40	-67.75	-13.00	54.75	Vertical
2369.3685	23.07	-64.59	-13.00	51.59	Vertical
3782.2891	51.91	-65.64	-13.00	52.64	Vertical
5666.7833	49.50	-59.95	-13.00	46.95	Vertical
7477.4239	48.58	-55.27	-13.00	42.27	Vertical
9537.2769	46.69	-53.11	-13.00	40.11	Vertical

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

LTE Band 26-15M					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1181.3091	22.19	-67.75	-13.00	54.75	Horizontal
2255.6628	22.21	-65.50	-13.00	52.50	Horizontal
3970.5985	51.30	-65.58	-13.00	52.58	Horizontal
6196.3598	49.13	-59.37	-13.00	46.37	Horizontal
7851.9426	47.33	-55.58	-13.00	42.58	Horizontal
9045.5023	47.45	-53.21	-13.00	40.21	Horizontal
1177.1089	22.13	-67.80	-13.00	54.80	Vertical
2224.3612	21.82	-65.74	-13.00	52.74	Vertical
2835.9918	21.88	-64.31	-13.00	51.31	Vertical
4633.5317	51.19	-63.11	-13.00	50.11	Vertical
7366.4683	49.00	-55.78	-13.00	42.78	Vertical
8825.6913	47.10	-54.17	-13.00	41.17	Vertical

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

LTE Band 38					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1190.2738	20.88	-50.64	-25.00	25.64	Horizontal
1942.1178	20.77	-48.79	-25.00	23.79	Horizontal
3467.2734	52.32	-65.90	-25.00	40.90	Horizontal
5142.1071	60.63	-51.72	-25.00	26.72	Horizontal
7713.2357	53.76	-49.77	-25.00	24.77	Horizontal
16398.6699	46.69	-43.70	-25.00	18.70	Horizontal
1154.5193	20.84	-50.56	-25.00	25.56	Vertical
2067.6335	20.88	-48.36	-25.00	23.36	Vertical
3546.0273	52.75	-65.29	-25.00	40.29	Vertical
5142.1071	57.10	-55.25	-25.00	30.25	Vertical
7713.2357	53.45	-50.08	-25.00	25.08	Vertical
16409.9205	46.84	-43.70	-25.00	18.70	Vertical

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

LTE Band 38					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1941.3677	29.18	-40.37	-25.00	15.37	Horizontal
3908.2954	51.22	-65.71	-25.00	40.71	Horizontal
5172.1086	61.70	-50.31	-25.00	25.31	Horizontal
7758.2379	55.85	-47.60	-25.00	22.60	Horizontal
11926.9463	45.19	-48.59	-25.00	23.59	Horizontal
16387.4194	46.54	-44.08	-25.00	19.08	Horizontal
1943.1179	21.00	-48.58	-25.00	23.58	Vertical
4191.0596	50.85	-64.90	-25.00	39.90	Vertical
5172.1086	58.08	-53.93	-25.00	28.93	Vertical
7758.2379	57.70	-45.75	-25.00	20.75	Vertical
10603.8802	46.65	-50.69	-25.00	25.69	Vertical
16397.1699	46.20	-44.22	-25.00	19.22	Vertical

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

LTE Band 38					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1992.1240	20.88	-48.52	-25.00	23.52	Horizontal
5202.1101	58.83	-52.80	-25.00	27.80	Horizontal
7803.2402	57.64	-45.72	-25.00	20.72	Horizontal
10571.6286	46.14	-51.45	-25.00	26.45	Horizontal
13358.7679	45.60	-46.62	-25.00	21.62	Horizontal
16403.9202	46.70	-43.73	-25.00	18.73	Horizontal
1769.8462	20.78	-48.97	-25.00	23.97	Vertical
5202.1101	57.45	-54.18	-25.00	29.18	Vertical
7803.2402	56.13	-47.23	-25.00	22.23	Vertical
11146.1573	46.01	-49.78	-25.00	24.78	Vertical
15021.6011	44.14	-46.14	-25.00	21.14	Vertical
16387.4194	46.46	-44.16	-25.00	19.16	Vertical

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

LTE Band 41					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1941.8677	31.77	-37.79	-25.00	12.79	Horizontal
4994.3497	53.89	-58.52	-25.00	33.52	Horizontal
7491.2246	50.22	-53.50	-25.00	28.50	Horizontal
10592.6296	46.75	-50.66	-25.00	25.66	Horizontal
15029.8515	44.53	-45.81	-25.00	20.81	Horizontal
16402.4201	46.20	-44.21	-25.00	19.21	Horizontal
1943.8680	24.34	-45.26	-25.00	20.26	Vertical
4994.3497	51.49	-60.92	-25.00	35.92	Vertical
5440.6220	48.98	-61.57	-25.00	36.57	Vertical
6375.1688	49.03	-58.77	-25.00	33.77	Vertical
9027.3014	47.13	-53.47	-25.00	28.47	Vertical
14027.0514	44.88	-46.98	-25.00	21.98	Vertical

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

LTE Band 41					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1963.8705	21.42	-47.95	-25.00	22.95	Horizontal
4142.3071	50.87	-65.09	-25.00	40.09	Horizontal
5168.3584	62.24	-49.82	-25.00	24.82	Horizontal
7752.2376	55.99	-47.47	-25.00	22.47	Horizontal
12961.9981	44.95	-47.39	-25.00	22.39	Horizontal
16862.9431	45.32	-45.36	-25.00	20.36	Horizontal
1941.6177	26.17	-43.38	-25.00	18.38	Vertical
5168.3584	57.85	-54.21	-25.00	29.21	Vertical
7752.2376	56.40	-47.06	-25.00	22.06	Vertical
10027.8514	46.43	-52.26	-25.00	27.26	Vertical
12410.7205	45.74	-47.59	-25.00	22.59	Vertical
16427.1714	47.02	-43.85	-25.00	18.85	Vertical

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

LTE Band 41					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1968.6211	20.72	-48.48	-25.00	23.48	Horizontal
5342.3671	53.97	-57.30	-25.00	32.30	Horizontal
7471.7236	48.42	-55.49	-25.00	30.49	Horizontal
10367.6184	45.96	-52.02	-25.00	27.02	Horizontal
12406.2203	46.31	-47.06	-25.00	22.06	Horizontal
16406.1703	46.21	-44.26	-25.00	19.26	Horizontal
1701.3377	20.89	-49.06	-25.00	24.06	Vertical
5342.3671	52.85	-58.42	-25.00	33.42	Vertical
7489.7245	47.94	-55.79	-25.00	30.79	Vertical
9764.5882	46.24	-52.92	-25.00	27.92	Vertical
12824.7412	44.82	-47.71	-25.00	22.71	Vertical
16409.9205	46.30	-44.24	-25.00	19.24	Vertical

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

LTE Band 66					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1943.1179	25.65	-43.93	-13.00	30.93	Horizontal
3422.2711	58.40	-60.26	-13.00	47.26	Horizontal
5133.1067	54.75	-57.64	-13.00	44.64	Horizontal
7476.2238	48.22	-55.64	-13.00	42.64	Horizontal
9592.0796	46.07	-53.26	-13.00	40.26	Horizontal
12907.2454	45.57	-47.35	-13.00	34.35	Horizontal
2123.8905	22.38	-46.78	-13.00	33.78	Vertical
3422.2711	56.18	-62.48	-13.00	49.48	Vertical
5133.1067	55.23	-57.16	-13.00	44.16	Vertical
7476.9738	48.19	-55.67	-13.00	42.67	Vertical
11216.6608	46.86	-48.98	-13.00	35.98	Vertical
15733.3867	44.47	-46.46	-13.00	33.46	Vertical

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

LTE Band 66					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
2474.4343	21.04	-47.37	-13.00	34.37	Horizontal
3472.5236	57.61	-60.49	-13.00	47.49	Horizontal
5208.1104	54.47	-57.16	-13.00	44.16	Horizontal
7758.2379	47.96	-55.49	-13.00	42.49	Horizontal
10014.3507	46.58	-52.20	-13.00	39.20	Horizontal
14702.8351	44.97	-46.68	-13.00	33.68	Horizontal
2141.6427	22.58	-46.50	-13.00	33.50	Vertical
3472.5236	56.02	-62.08	-13.00	49.08	Vertical
5208.1104	54.39	-57.24	-13.00	44.24	Vertical
6998.4499	48.49	-57.46	-13.00	44.46	Vertical
8829.2915	47.36	-53.93	-13.00	40.93	Vertical
12115.2058	45.06	-48.58	-13.00	35.58	Vertical

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

LTE Band 66					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
2163.1454	23.01	-46.15	-13.00	33.15	Horizontal
3522.0261	57.90	-59.86	-13.00	46.86	Horizontal
5283.1142	51.72	-60.01	-13.00	47.01	Horizontal
7469.4735	48.53	-55.40	-13.00	42.40	Horizontal
11916.4458	44.69	-48.94	-13.00	35.94	Horizontal
16404.6702	46.34	-44.11	-13.00	31.11	Horizontal
2166.1458	23.21	-45.91	-13.00	32.91	Vertical
3522.0261	55.58	-62.18	-13.00	49.18	Vertical
5283.1142	53.41	-58.32	-13.00	45.32	Vertical
7487.4744	48.43	-55.32	-13.00	42.32	Vertical
10648.8824	46.92	-50.41	-13.00	37.41	Vertical
16412.9206	46.35	-44.25	-13.00	31.25	Vertical

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

LTE Band CA_7C					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1848.6061	20.68	-49.19	-25.00	24.19	Horizontal
4548.0774	51.44	-63.13	-25.00	38.13	Horizontal
7468.7234	48.28	-55.66	-25.00	30.66	Horizontal
10417.8709	45.52	-52.09	-25.00	27.09	Horizontal
12430.9715	45.19	-47.98	-25.00	22.98	Horizontal
16408.4204	46.65	-43.87	-25.00	18.87	Horizontal
1786.0983	20.75	-49.14	-25.00	24.14	Vertical
3780.7890	51.61	-65.94	-25.00	40.94	Vertical
5184.1092	49.75	-62.10	-25.00	37.10	Vertical
6870.1935	48.90	-57.97	-25.00	32.97	Vertical
8983.7992	47.72	-52.94	-25.00	27.94	Vertical
14041.3021	44.32	-47.31	-25.00	22.31	Vertical

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

LTE Band CA_7C					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1629.0786	20.78	-49.70	-25.00	24.70	Horizontal
3916.5458	51.20	-65.73	-25.00	40.73	Horizontal
5814.1407	49.15	-60.43	-25.00	35.43	Horizontal
7844.4922	47.32	-55.63	-25.00	30.63	Horizontal
10250.6125	46.25	-51.65	-25.00	26.65	Horizontal
12442.2221	46.05	-47.02	-25.00	22.02	Horizontal
1680.5851	20.47	-49.52	-25.00	24.52	Vertical
3875.2938	51.61	-65.71	-25.00	40.71	Vertical
5325.1163	48.92	-62.56	-25.00	37.56	Vertical
7990.7495	47.63	-55.25	-25.00	30.25	Vertical
11270.6635	46.58	-49.38	-25.00	24.38	Vertical
15190.3595	44.89	-46.28	-25.00	21.28	Vertical

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

LTE Band CA_7C					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1593.0741	20.42	-50.15	-25.00	25.15	Horizontal
4086.8043	51.48	-65.30	-25.00	40.30	Horizontal
6509.4255	48.20	-58.40	-25.00	33.40	Horizontal
9010.0505	46.91	-53.63	-25.00	28.63	Horizontal
13811.0406	44.85	-47.27	-25.00	22.27	Horizontal
17912.9957	46.92	-45.45	-25.00	20.45	Horizontal
1527.3159	20.45	-49.90	-25.00	24.90	Vertical
4478.3239	50.75	-63.79	-25.00	38.79	Vertical
6342.1671	48.47	-59.43	-25.00	34.43	Vertical
7771.7386	47.06	-56.37	-25.00	31.37	Vertical
10627.1314	46.60	-50.73	-25.00	25.73	Vertical
14433.5717	44.86	-47.04	-25.00	22.04	Vertical

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

LTE Band CA_38C					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1510.5638	20.39	-49.93	-25.00	24.93	Horizontal
3723.7862	52.47	-65.39	-25.00	40.39	Horizontal
5868.1434	48.95	-60.63	-25.00	35.63	Horizontal
9044.5522	47.39	-53.26	-25.00	28.26	Horizontal
12170.7085	45.14	-48.37	-25.00	23.37	Horizontal
16926.6963	45.00	-45.24	-25.00	20.24	Horizontal
1472.8091	20.47	-50.21	-25.00	25.21	Vertical
3900.0450	51.27	-65.66	-25.00	40.66	Vertical
5698.6349	49.37	-59.67	-25.00	34.67	Vertical
8051.5026	47.24	-55.49	-25.00	30.49	Vertical
11773.9387	45.49	-49.05	-25.00	24.05	Vertical
17982.7491	47.54	-45.60	-25.00	20.60	Vertical

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

LTE Band CA_38C					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1348.7936	20.43	-50.64	-25.00	25.64	Horizontal
4309.5655	51.50	-64.18	-25.00	39.18	Horizontal
6780.1890	48.31	-58.26	-25.00	33.26	Horizontal
8828.5414	47.02	-54.27	-25.00	29.27	Horizontal
13017.5009	44.45	-47.51	-25.00	22.51	Horizontal
16926.6963	45.04	-45.20	-25.00	20.20	Horizontal
1660.8326	20.51	-49.73	-25.00	24.73	Vertical
4000.5500	51.32	-65.50	-25.00	40.50	Vertical
5239.6120	49.38	-62.26	-25.00	37.26	Vertical
6522.1761	48.46	-58.41	-25.00	33.41	Vertical
9541.0771	46.64	-53.16	-25.00	28.16	Vertical
15618.6309	43.98	-46.63	-25.00	21.63	Vertical

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

LTE Band CA_38C					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1275.2844	20.47	-50.95	-25.00	25.95	Horizontal
4560.0780	50.83	-63.67	-25.00	38.67	Horizontal
6773.4387	48.30	-58.15	-25.00	33.15	Horizontal
8522.5261	47.30	-54.50	-25.00	29.50	Horizontal
12408.4704	45.63	-47.72	-25.00	22.72	Horizontal
16360.4180	47.37	-43.81	-25.00	18.81	Horizontal
1352.0440	20.40	-50.65	-25.00	25.65	Vertical
4138.5569	50.87	-65.16	-25.00	40.16	Vertical
6862.6931	49.09	-57.82	-25.00	32.82	Vertical
9392.5696	46.57	-53.19	-25.00	28.19	Vertical
13397.0199	44.94	-46.94	-25.00	21.94	Vertical
16893.6947	45.51	-45.02	-25.00	20.02	Vertical

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

LTE Band CA_41C					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1436.5546	20.43	-50.32	-25.00	25.32	Horizontal
4187.3094	50.79	-64.97	-25.00	39.97	Horizontal
7467.9734	48.52	-55.42	-25.00	30.42	Horizontal
11927.6964	45.73	-48.06	-25.00	23.06	Horizontal
15035.8518	44.60	-45.79	-25.00	20.79	Horizontal
17738.2369	47.90	-45.65	-25.00	20.65	Horizontal
1241.2802	20.65	-50.74	-25.00	25.74	Vertical
3975.0488	51.16	-65.71	-25.00	40.71	Vertical
5674.6337	49.58	-59.77	-25.00	34.77	Vertical
9010.8005	47.22	-53.32	-25.00	28.32	Vertical
12856.2428	45.71	-47.01	-25.00	22.01	Vertical
17807.9904	48.10	-45.21	-25.00	20.21	Vertical

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

LTE Band CA_41C					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1508.0635	20.39	-49.98	-25.00	24.98	Horizontal
3702.7851	52.55	-65.62	-25.00	40.62	Horizontal
5813.3907	49.38	-60.19	-25.00	35.19	Horizontal
9368.5684	46.60	-53.32	-25.00	28.32	Horizontal
13036.2518	45.19	-46.88	-25.00	21.88	Horizontal
17990.2495	48.14	-45.18	-25.00	20.18	Horizontal
1429.3037	20.82	-50.09	-25.00	25.09	Vertical
3523.5262	52.35	-65.43	-25.00	40.43	Vertical
5420.3710	48.88	-61.86	-25.00	36.86	Vertical
7970.4985	48.00	-55.00	-25.00	30.00	Vertical
12393.4697	44.97	-48.48	-25.00	23.48	Vertical
17333.9667	47.40	-46.34	-25.00	21.34	Vertical

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

LTE Band CA_41C					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1687.8360	20.39	-49.58	-25.00	24.58	Horizontal
3696.0348	52.47	-65.67	-25.00	40.67	Horizontal
5702.3851	49.05	-60.02	-25.00	35.02	Horizontal
7485.9743	48.54	-55.23	-25.00	30.23	Horizontal
11234.6617	46.92	-48.97	-25.00	23.97	Horizontal
16415.1708	46.53	-44.11	-25.00	19.11	Horizontal
1660.5826	20.76	-49.47	-25.00	24.47	Vertical
3930.0465	50.88	-66.05	-25.00	41.05	Vertical
5674.6337	49.40	-59.95	-25.00	34.95	Vertical
8248.7624	47.19	-55.37	-25.00	30.37	Vertical
11347.1674	45.64	-49.94	-25.00	24.94	Vertical
16861.4431	45.52	-45.17	-25.00	20.17	Vertical

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

7 Test Setup Photo

Reference to the test setup photos: PCE-Test Setup Photo

8 EUT Constructional Details

Reference to the External photo and Internal photo.

-----End of report-----