

FCC RF Test Report

(LTE)

Report No.: JYTSZ-R12-2400720

Applicant: INFINIX MOBILITY LIMITED

Address of Applicant: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE
19-25 SHAN MEI STREET FOTAN NT HONGKONG

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: X6881

Trade Mark: Infinix

FCC ID: 2AIZN-X6881

Applicable Standards: FCC CFR Title 47 Part 2, 22H, 24E, 27L & M

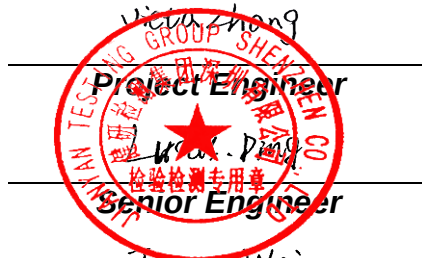
Date of Sample Receipt: 27 Jun., 2024

Date of Test: 28 Jun., to 12 Aug., 2024

Date of Report Issued: 13 Aug., 2024

Test Result: PASS

Tested by:



Date:

13 Aug., 2024

Reviewed by:

Date:

13 Aug., 2024

Approved by:

Janet. Wei

Manager

Date:

13 Aug., 2024

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	13 Aug., 2024	Original

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3 General Information

3.1 Client Information

Applicant:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

3.2 General Description of E.U.T.

Product Name:	Mobile Phone		
Model No.:	X6881		
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 38:	Tx: 2570 MHz - 2620 MHz	Rx: 2570 MHz - 2620 MHz
	LTE band 41:	Tx: 2535 MHz - 2655 MHz	Rx: 2535 MHz - 2655 MHz
	LTE CA(UL):	CA_2C, CA_5B, CA_7C, CA_38C, CA_41C	
Modulation Type:	☒ QPSK ☒ 16QAM ☒ 64QAM		
Antenna Type:	Internal Antenna		
Antenna Gain:	LTE band 2:	ANT0: -1.84 dBi (declare by Applicant)	
		ANT2: -3.12 dBi (declare by Applicant)	
	LTE band 4:	ANT0: -0.85 dBi (declare by Applicant)	
		ANT2: -4.45 dBi (declare by Applicant)	
	LTE band 5:	ANT0: -6.69 dBi (declare by Applicant)	
		ANT2: -6.34 dBi (declare by Applicant)	
	LTE band 7:	ANT0: -1.02 dBi (declare by Applicant)	
		ANT2: -3.47 dBi (declare by Applicant)	
	LTE band 38:	ANT0: -1.02 dBi (declare by Applicant)	
		ANT2: -3.47 dBi (declare by Applicant)	
LTE band 41:	ANT0: -1.02 dBi (declare by Applicant)		
	ANT2: -3.47 dBi (declare by Applicant)		
Power Supply:	Rechargeable Li-ion Polymer Battery DC3.87V, 4900mAh		
AC Adapter:	Model: U330XSB Input: AC100-240V, 50/60Hz, 1.5A Output: DC 5.0V, 3.0A 15.0W or 5.0-10.0V, 3.3A or 11.0V, 3.0A 33.0W MAX		
Test Sample Condition:	The test samples were provided in good working order with no visible defects.		

3.3 Test Mode and Environment

Test Mode:	
QPSK mode:	Keep the EUT communication with simulated station in QPSK mode
16QAM mode:	Keep the EUT communication with simulated station in 16QAM mode
64QAM mode:	Keep the EUT communication with simulated station in 64QAM 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.	
Operating Environment:	
Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.87 Vdc, Extreme: Low 3.45 Vdc, High 4.45 Vdc
Test Engineer:	LaoLu Lu (Conducted measurement) Alan Chen (Radiated measurement)

3.4 Description of Test Auxiliary Equipment

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

3.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	4.6 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	5.8 dB
Radiated Emission (1GHz ~ 6GHz) (3m FAR)	4.95 dB
Radiated Emission (6GHz ~ 18GHz) (3m FAR)	5.23 dB
Radiated Emission (18GHz ~ 40GHz) (3m FAR)	5.32 dB
Note: 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.	

3.6 Additions to, Deviations, or Exclusions from the Method

No

3.7 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>

3.8 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://jyt.lets.com>

3.9 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2026
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	01-05-2024	01-04-2025
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	01-09-2024	01-08-2025
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-02-2021	07-01-2024
				07-01-2024	06-30-2025
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	01-05-2024	01-04-2025
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-28-2023	12-27-2024
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	12-27-2023	12-26-2024
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	12-27-2023	12-26-2024
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-28-2023	12-27-2024
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	12-27-2023	12-26-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-27-2023	12-26-2024
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	09-25-2023	09-24-2024
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-17-2024	01-16-2025
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-17-2024	01-16-2025
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-17-2024	01-16-2025
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Radiated Emission(3m FAR):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m FAR	YUNYI	9m*6m*6m	WXJ097	06-15-2023	06-14-2028
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ097-2	07-13-2023	07-12-2024
				07-01-2024	06-30-2025
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-02-2021	07-01-2024
				07-01-2024	06-30-2025
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ097-3	06-16-2024	06-15-2025
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-28-2023	12-27-2024
Pre-amplifier (30MHz ~ 1GHz)	YUNYI	PAM-310N	WXJ097-5	04-24-2024	04-23-2025
Pre-amplifier (1GHz ~ 18GHz)	YUNYI	PAM-118N	WXJ097-6	04-24-2024	04-23-2025
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-28-2023	12-27-2024
EMI Test Receiver	Rohde & Schwarz	ESCI3	WXJ003	12-27-2023	12-26-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-27-2023	12-26-2024
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ081-1	06-11-2024	06-10-2025
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-13M	WXG097-1	08-01-2023	07-31-2024
				07-30-2024	07-29-2025
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG097-2	08-01-2023	07-31-2024
				07-30-2024	07-29-2025
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG097-3	08-01-2023	07-31-2024
				07-30-2024	07-29-2025
High Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Low Band Reject Filter Group	Tonscend	JS0806-F	WXJ097-4	N/A	
Test Software	Tonscend	TS+	Version: 5.0.0		

Conducted Method:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9020A	WXJ094	09-25-2023	09-24-2024
Simulated Station	Rohde & Schwarz	CMW500	WXJ081	06-11-2024	06-10-2025
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	01-09-2023	01-08-2025
DC Power Supply	Keysight	E3642A	WXJ025-2	N/A	
RF Control Unit	Tonscend	JS0806-1	WXG010	N/A	
Band Reject Filter Group	Tonscend	JS0806-F	WXG010-1	N/A	
Test Software	Tonscend	TS+	Version: 2.6.9.0526		

4 Measurement Setup and Procedure

4.1 Test Channel

According to ANSI C63.26-2015 chapter 5.1.2.1 Table 2 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

LTE band 2					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	18607	1850.7	Lowest channel	18915	1851.5
Middle channel	18900	1880.0	Middle channel	18900	1880.0
Highest channel	19193	1909.3	Highest channel	19185	1908.5
5 MHz			10 MHz		
Lowest channel	18625	1852.5	Lowest channel	18650	1855.0
Middle channel	18900	1880.0	Middle channel	18900	1880.0
Highest channel	19175	1907.5	Highest channel	19150	1905.0
15 MHz			20 MHz		
Lowest channel	18675	1857.5	Lowest channel	18700	1860.0
Middle channel	18900	1880.0	Middle channel	18900	1880.0
Highest channel	19125	1902.5	Highest channel	19100	1900.0
LTE band 4					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	19957	1710.7	Lowest channel	19965	1711.5
Middle channel	20175	1732.5	Middle channel	20175	1732.5
Highest channel	20393	1754.3	Highest channel	20385	1753.5
5 MHz			10 MHz		
Lowest channel	19975	1712.5	Lowest channel	20000	1715.0
Middle channel	20175	1732.5	Middle channel	20175	1732.5
Highest channel	20375	1752.5	Highest channel	20350	1750.0
15 MHz			20 MHz		
Lowest channel	20025	1717.5	Lowest channel	20050	1720.0
Middle channel	20175	1732.5	Middle channel	20175	1732.5
Highest channel	20325	1747.5	Highest channel	20300	1745.0
LTE band 5					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	20407	824.7	Lowest channel	20415	825.5
Middle channel	20525	836.5	Middle channel	20525	836.5
Highest channel	20643	848.3	Highest channel	20635	847.5
5 MHz			10 MHz		
Lowest channel	20425	826.5	Lowest channel	20450	829.0
Middle channel	20525	836.5	Middle channel	20525	836.5
Highest channel	20625	846.5	Highest channel	20600	844.0

LTE band 7					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
5 MHz			10 MHz		
Lowest channel	20775	2502.5	Lowest channel	20800	2505.0
Middle channel	21100	2535.0	Middle channel	21100	2535.0
Highest channel	21425	2567.5	Highest channel	21400	2565.0
15 MHz			20 MHz		
Lowest channel	20825	2507.5	Lowest channel	20850	2510.0
Middle channel	21100	2535.0	Middle channel	21100	2535.0
Highest channel	21375	2562.5	Highest channel	21350	2560.0
LTE band 41 Include LTE band 38					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
5 MHz			10 MHz		
Lowest channel	40065	2537.50	Lowest channel	40090	2540.00
Middle channel	40640	2595.00	Middle channel	40640	2595.00
Highest channel	41215	2652.50	Highest channel	41190	2650.00
15 MHz			20 MHz		
Lowest channel	40115	2542.50	Lowest channel	40140	2545.00
Middle channel	40640	2595.00	Middle channel	40640	2595.00
Highest channel	41165	2647.50	Highest channel	41140	2645.00

Table 4.3.1.1.2A-2: Test frequencies for CA_2C

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	25+100	25	18633	1853.3	633	1933.3	100	18750	1865	750	1945
		100	18700	1860	700	1940	25	18817	1871.7	817	1951.7
	50+75	50	18653	1855.3	653	1935.3	75	18773	1867.3	773	1947.3
		75	18675	1857.5	675	1937.5	50	18795	1869.5	795	1949.5
	50+100	50	18655	1855.5	655	1935.5	100	18799	1869.9	799	1949.9
		100	18700	1860	700	1940	50	18844	1874.4	844	1954.4
	75+75	75	18675	1857.5	675	1937.5	75	18825	1872.5	825	1952.5
	75+100	75	18678	1857.8	678	1937.8	100	18849	1874.9	849	1954.9
		100	18700	1860	700	1940	75	18871	1877.1	871	1957.1
	100+100	100	18700	1860	700	1940	100	18898	1879.8	898	1959.8
Mid	25+100	25	18808	1870.8	808	1950.8	100	18925	1882.5	925	1962.5
		100	18875	1877.5	875	1957.5	25	18992	1889.2	992	1969.2
	50+75	50	18829	1872.9	829	1952.9	75	18949	1884.9	949	1964.9
		75	18851	1875.1	851	1955.1	50	18971	1887.1	971	1967.1
	50+100	50	18806	1870.6	806	1950.6	100	18950	1885	950	1965
		100	18851	1875.1	851	1955.1	50	18995	1889.5	995	1969.5
	75+75	75	18825	1872.5	825	1952.5	75	18975	1887.5	975	1967.5
	75+100	75	18803	1870.3	803	1950.3	100	18974	1887.4	974	1967.4
		100	18826	1872.6	826	1952.6	75	18997	1889.7	997	1969.7
	100+100	100	18801	1870.1	801	1950.1	100	18999	1889.9	999	1969.9
High	25+100	25	18983	1888.3	983	1968.3	100	19100	1900	1100	1980
	50+75	100	19050	1895	1050	1975	25	19167	1906.7	1167	1986.7
		50	19005	1890.5	1005	1970.5	75	19125	1902.5	1125	1982.5
	50+100	75	19027	1892.7	1027	1972.7	50	19147	1904.7	1147	1984.7
		50	18956	1885.6	956	1965.6	100	19100	1900	1100	1980
	75+75	100	19001	1890.1	1001	1970.1	50	19145	1904.5	1145	1984.5
		75	18975	1887.5	975	1967.5	75	19125	1902.5	1125	1982.5
	75+100	75	18929	1882.9	929	1962.9	100	19100	1900	1100	1980
		100	18951	1885.1	951	1965.1	75	19122	1902.2	1122	1982.2
	100+100	100	18902	1880.2	902	1960.2	100	19100	1900	1100	1980

Note 1: Carriers in increasing frequency order.

Table 4.3.1.1.5A-1: Test frequencies for CA_5B

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	15+25	15	20416	825.6	2416	870.6	25	20455	829.5	2455	874.5
		25	20425	826.5	2425	871.5	15	20464	830.4	2464	875.4
	25+50	25	20428	826.8	2428	871.8	50	20500	834	2500	879
	50+25	50	20450	829	2450	874	25	20522	836.2	2522	881.2
	50+50	50	20450	829	2450	874	50	20549	838.9	2549	883.9
Mid	15+25	15	20501	834.1	2501	879.1	25	20540	838.0	2540	883.0
		25	20510	835.0	2510	880.0	15	20549	838.9	2549	883.9
	25+50	25	20478	831.8	2478	876.8	50	20550	839	2550	884
	50+25	50	20500	834	2500	879	25	20572	841.2	2572	886.2
	50+50	50	20476	831.6	2476	876.6	50	20575	841.5	2575	886.5
High	15+25	15	20586	842.6	2586	887.6	25	20625	846.5	2625	891.5
		25	20595	843.5	2595	888.5	15	20634	847.4	2634	892.4
	25+50	25	20528	836.8	2528	881.8	50	20600	844	2600	889
	50+25	50	20550	839	2550	884	25	20622	846.2	2622	891.2
	50+50	50	20501	834.1	2501	879.1	50	20600	844	2600	889

Note 1: Carriers in increasing frequency order.

Table 4.3.1.1.7A-1: Test frequencies for CA_7C

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
Mid	100+100	100	20850	2510	2850	2630	100	21048	2529.8	3048	2649.8
		100	21006	2525.6	3006	2645.6	100	21150	2540	3150	2660
	50+100	50	21051	2530.1	3051	2650.1	50	21195	2544.5	3195	2664.5
		75	21051	2530.1	3051	2650.1	50	21171	2542.1	3171	2662.1
	75+50	75	21025	2527.5	3025	2647.5	75	21175	2542.5	3175	2662.5
	75+75	75	21003	2525.3	3003	2645.3	100	21174	2542.4	3174	2662.4
High	75+100	100	21026	2527.6	3026	2647.6	75	21197	2544.7	3197	2664.7
		100	21001	2525.1	3001	2645.1	100	21199	2544.9	3199	2664.9
	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.

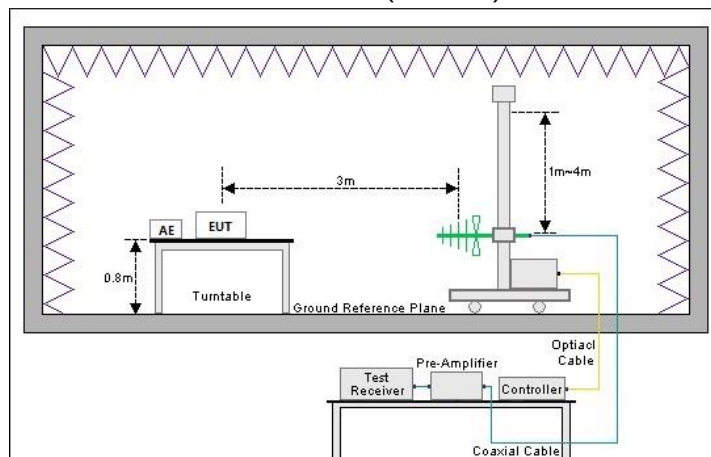
Table 4.3.1.2.9A-1: Test frequencies for CA_41C

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	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.					
Note 2:		This test frequency is applicable only for intra-band contiguous CA which requires channel spacing to be less than nominal channel spacing.					

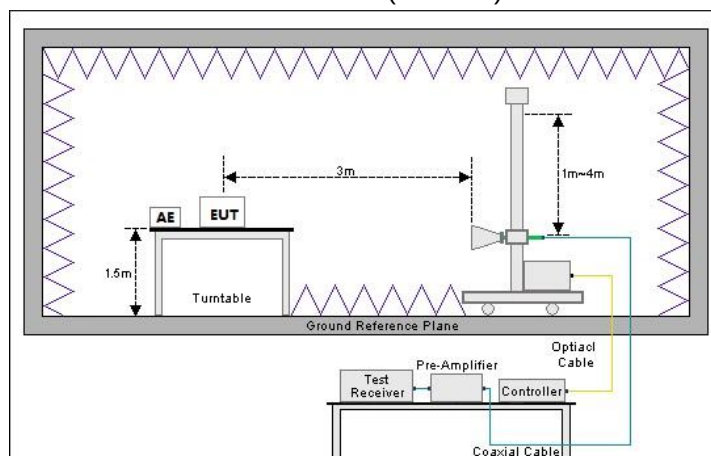
4.2 Test Setup

1) Radiated emission measurement:

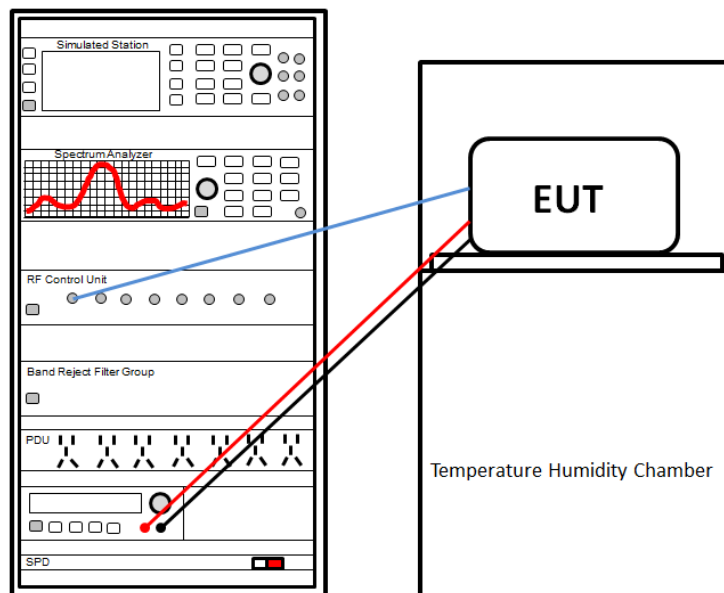
Below 1GHz (3m SAC)



Above 1GHz (3m FAR)



2) Conducted test method



4.3 Test Procedure

Test method	Test step
Radiated emission	For below 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. For above 1GHz: 1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method	1. The LTE antenna port of EUT was connected to the test port of the test system through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.

5 Test Results

5.1 Summary

5.1.1 Clause and Data Summary

Test items	Standard clause	Test data	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	See SAR Report	Pass
RF Output Power	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (d)(4) Part 27.50 (h)(2)	Appendix – LTE ANT0 Appendix – LTE ANT2 Appendix LTE – CA ANT0 Appendix LTE – CA ANT2	Pass
Peak-to-Average Power Ratio	Part 24.232 (d) Part 27.50 (d)(5)	Appendix – LTE ANT0 Appendix – LTE ANT2 Appendix LTE – CA ANT0 Appendix LTE – CA ANT2	Pass
Modulation Characteristics	Part 2.1047	Appendix – LTE ANT0 Appendix – LTE ANT2 Appendix LTE – CA ANT0 Appendix LTE – CA ANT2	Pass
26dB Emission Bandwidth 99% Occupied Bandwidth	Part 2.1049	Appendix – LTE ANT0 Appendix – LTE ANT2 Appendix LTE – CA ANT0 Appendix LTE – CA ANT2	Pass
Out of Band Emission at Antenna Terminals	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h) Part 27.53 (m)(4)	Appendix – LTE ANT0 Appendix – LTE ANT2 Appendix LTE – CA ANT0 Appendix LTE – CA ANT2	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h) Part 27.53 (m)(4)	See Section 5.2	Pass
Frequency Stability vs. Temperature	Part 2.1055 (a)(1)(b) Part 22.355 Part 24.235 Part 27.54	Appendix – LTE ANT0 Appendix – LTE ANT2 Appendix LTE – CA ANT0 Appendix LTE – CA ANT2	Pass
Frequency Stability vs. Voltage	Part 2.1055 (d)(2) Part 22.355 Part 24.235 Part 27.54	Appendix – LTE ANT0 Appendix – LTE ANT2 Appendix LTE – CA ANT0 Appendix LTE – CA ANT2	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. 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		

5.1.2 Test Limit

Test items	Limit																																
RF Output Power	LTE band 2/CA_2C/7/CA_7C/38/CA_38C/41/CA_41C: 2W EIRP LTE band 4: 1W EIRP LTE band 5: 7W ERP																																
Peak-to-Average Power Ratio	LTE band 2/4: The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB Other bands: N/A report only																																
Modulation Characteristics	N/A																																
26dB Emission Bandwidth 99% Occupied Bandwidth	N/A																																
Out of Band Emission at Antenna Terminals Field Strength of Spurious Radiation	LTE band 2/CA_2C, 4, 5/CA_5B: The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. LTE band 7/CA_7C, 38/CA_38C, 41/CA_41C: 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 than 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.																																
Frequency Stability vs. Temperature Frequency Stability vs. Voltage	LTE band 2/CA_2C: The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. LTE band 4, 7/CA_7C, 12, 13, 17, 38/CA_38C, 41/CA_41C, 66: The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation. LTE band 5/CA_5B: Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section. TABLE C-1—FREQUENCY TOLERANCE FOR TRANSMITTERS IN THE PUBLIC MOBILE SERVICES <table><tr><th>Frequency range (MHz)</th><th>Base, fixed (ppm)</th><th>Mobile >3 watts (ppm)</th><th>Mobile ≤3 watts (ppm)</th></tr><tr><td>25 to 50</td><td>20.0</td><td>20.0</td><td>50.0</td></tr><tr><td>50 to 450</td><td>5.0</td><td>5.0</td><td>50.0</td></tr><tr><td>450 to 512</td><td>2.5</td><td>5.0</td><td>5.0</td></tr><tr><td>821 to 896</td><td>1.5</td><td>2.5</td><td>2.5</td></tr><tr><td>928 to 929</td><td>5.0</td><td>n/a</td><td>n/a</td></tr><tr><td>929 to 960</td><td>1.5</td><td>n/a</td><td>n/a</td></tr><tr><td>2110 to 2220</td><td>10.0</td><td>n/a</td><td>n/a</td></tr></table>	Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)	25 to 50	20.0	20.0	50.0	50 to 450	5.0	5.0	50.0	450 to 512	2.5	5.0	5.0	821 to 896	1.5	2.5	2.5	928 to 929	5.0	n/a	n/a	929 to 960	1.5	n/a	n/a	2110 to 2220	10.0	n/a	n/a
Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)																														
25 to 50	20.0	20.0	50.0																														
50 to 450	5.0	5.0	50.0																														
450 to 512	2.5	5.0	5.0																														
821 to 896	1.5	2.5	2.5																														
928 to 929	5.0	n/a	n/a																														
929 to 960	1.5	n/a	n/a																														
2110 to 2220	10.0	n/a	n/a																														

5.2 Field Strength of Spurious Radiation Measurement

Note: All bandwidths, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

ANT0:

LTE band 2 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.40	-62.95	-0.36	-63.31	-13.00	50.31	Vertical
5552.10	-51.97	4.16	-47.81	-13.00	34.81	Vertical
7402.00	-66.51	6.10	-60.41	-13.00	47.41	Vertical
3701.40	-63.59	-0.17	-63.76	-13.00	50.76	Horizontal
5552.10	-59.89	4.07	-55.82	-13.00	42.82	Horizontal
7402.00	-65.69	5.78	-59.91	-13.00	46.91	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-62.73	-1.01	-63.74	-13.00	50.74	Vertical
5640.00	-51.47	3.96	-47.51	-13.00	34.51	Vertical
7520.00	-66.38	5.55	-60.83	-13.00	47.83	Vertical
3760.00	-63.07	-0.56	-63.63	-13.00	50.63	Horizontal
5640.00	-60.09	4.14	-55.95	-13.00	42.95	Horizontal
7520.00	-66.00	5.56	-60.44	-13.00	47.44	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3816.60	-63.18	-0.59	-63.77	-13.00	50.77	Vertical
5724.90	-51.48	3.42	-48.06	-13.00	35.06	Vertical
7633.20	-67.14	6.40	-60.74	-13.00	47.74	Vertical
3816.60	-62.87	-0.10	-62.97	-13.00	49.97	Horizontal
5724.90	-59.61	3.80	-55.81	-13.00	42.81	Horizontal
7633.20	-65.95	6.24	-59.71	-13.00	46.71	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 4 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.40	-63.29	-2.15	-65.44	-13.00	52.44	Vertical
5132.10	-48.54	3.80	-44.74	-13.00	31.74	Vertical
6842.80	-65.10	5.86	-59.24	-13.00	46.24	Vertical
3421.40	-64.24	-2.22	-66.46	-13.00	53.46	Horizontal
5132.10	-52.14	3.86	-48.28	-13.00	35.28	Horizontal
6842.80	-66.35	6.07	-60.28	-13.00	47.28	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.00	-63.06	-2.54	-65.60	-13.00	52.60	Vertical
5197.50	-48.25	3.25	-45.00	-13.00	32.00	Vertical
6930.00	-65.75	5.20	-60.55	-13.00	47.55	Vertical
3465.00	-63.91	-2.54	-66.45	-13.00	53.45	Horizontal
5197.50	-51.83	3.17	-48.66	-13.00	35.66	Horizontal
6930.00	-66.01	5.17	-60.84	-13.00	47.84	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3508.60	-62.50	-3.13	-65.63	-13.00	52.63	Vertical
5262.90	-48.40	3.11	-45.29	-13.00	32.29	Vertical
7017.20	-65.74	5.74	-60.00	-13.00	47.00	Vertical
3508.60	-63.95	-2.96	-66.91	-13.00	53.91	Horizontal
5262.90	-51.98	3.46	-48.52	-13.00	35.52	Horizontal
7017.20	-65.93	5.80	-60.13	-13.00	47.13	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 5 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.40	-60.82	-11.51	-72.33	-13.00	59.33	Vertical
2474.10	-60.68	-8.67	-69.35	-13.00	56.35	Vertical
3298.80	-63.89	-3.89	-67.78	-13.00	54.78	Vertical
1649.40	-58.81	-10.85	-69.66	-13.00	56.66	Horizontal
2474.10	-61.17	-9.13	-70.30	-13.00	57.30	Horizontal
3298.80	-63.82	-3.96	-67.78	-13.00	54.78	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.30	-60.78	-10.70	-71.48	-13.00	58.48	Vertical
2509.50	-60.53	-8.66	-69.19	-13.00	56.19	Vertical
3346.00	-63.04	-3.33	-66.37	-13.00	53.37	Vertical
1673.30	-59.05	-10.28	-69.33	-13.00	56.33	Horizontal
2509.50	-60.97	-8.73	-69.70	-13.00	56.70	Horizontal
3346.00	-63.12	-3.42	-66.54	-13.00	53.54	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1696.60	-60.65	-9.90	-70.55	-13.00	57.55	Vertical
2544.90	-61.03	-8.45	-69.48	-13.00	56.48	Vertical
3393.20	-63.44	-2.59	-66.03	-13.00	53.03	Vertical
1696.60	-59.40	-9.70	-69.10	-13.00	56.10	Horizontal
2544.90	-60.58	-8.21	-68.79	-13.00	55.79	Horizontal
3393.20	-62.92	-2.65	-65.57	-13.00	52.57	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 7 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.00	-62.26	3.69	-58.57	-25.00	33.57	Vertical
7507.50	-65.36	5.56	-59.80	-25.00	34.80	Vertical
10010.00	-67.31	10.09	-57.22	-25.00	32.22	Vertical
5005.00	-62.85	4.02	-58.83	-25.00	33.83	Horizontal
7507.50	-66.57	5.56	-61.01	-25.00	36.01	Horizontal
10010.00	-66.73	9.47	-57.26	-25.00	32.26	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-62.79	4.23	-58.56	-25.00	33.56	Vertical
7605.00	-66.00	6.06	-59.94	-25.00	34.94	Vertical
10140.00	-67.35	10.48	-56.87	-25.00	31.87	Vertical
5070.00	-62.17	3.51	-58.66	-25.00	33.66	Horizontal
7605.00	-67.11	5.95	-61.16	-25.00	36.16	Horizontal
10140.00	-65.95	10.21	-55.74	-25.00	30.74	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.00	-62.49	3.78	-58.71	-25.00	33.71	Vertical
7702.50	-66.32	6.22	-60.10	-25.00	35.10	Vertical
10270.00	-67.04	11.48	-55.56	-25.00	30.56	Vertical
5135.00	-62.76	3.83	-58.93	-25.00	33.93	Horizontal
7702.50	-66.38	5.97	-60.41	-25.00	35.41	Horizontal
10270.00	-66.71	11.00	-55.71	-25.00	30.71	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 41 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5075.00	-59.67	4.18	-55.49	-25.00	30.49	Vertical
7612.50	-66.87	6.15	-60.72	-25.00	35.72	Vertical
10150.00	-67.36	10.32	-57.04	-25.00	32.04	Vertical
5075.00	-59.69	3.52	-56.17	-25.00	31.17	Horizontal
7612.50	-66.26	6.03	-60.23	-25.00	35.23	Horizontal
10150.00	-67.55	10.16	-57.39	-25.00	32.39	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5190.00	-60.22	3.33	-56.89	-25.00	31.89	Vertical
7785.00	-66.48	8.39	-58.09	-25.00	33.09	Vertical
10380.00	-67.57	10.75	-56.82	-25.00	31.82	Vertical
5190.00	-59.29	3.26	-56.03	-25.00	31.03	Horizontal
7785.00	-66.31	8.24	-58.07	-25.00	33.07	Horizontal
10380.00	-67.87	10.21	-57.66	-25.00	32.66	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5305.00	-60.08	3.67	-56.41	-25.00	31.41	Vertical
7957.50	-66.43	8.36	-58.07	-25.00	33.07	Vertical
10610.00	-67.51	12.12	-55.39	-25.00	30.39	Vertical
5305.00	-59.66	3.85	-55.81	-25.00	30.81	Horizontal
7957.50	-67.11	8.12	-58.99	-25.00	33.99	Horizontal
10610.00	-67.63	11.70	-55.93	-25.00	30.93	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 2 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.40	-61.69	-0.36	-62.05	-13.00	49.05	Vertical
5552.10	-52.85	4.16	-48.69	-13.00	35.69	Vertical
7402.00	-65.49	6.10	-59.39	-13.00	46.39	Vertical
3701.40	-61.91	-0.17	-62.08	-13.00	49.08	Horizontal
5552.10	-61.37	4.07	-57.30	-13.00	44.30	Horizontal
7402.00	-64.89	5.78	-59.11	-13.00	46.11	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-62.74	-1.01	-63.75	-13.00	50.75	Vertical
5640.00	-52.94	3.96	-48.98	-13.00	35.98	Vertical
7520.00	-64.92	5.55	-59.37	-13.00	46.37	Vertical
3760.00	-63.34	-0.56	-63.90	-13.00	50.90	Horizontal
5640.00	-60.57	4.14	-56.43	-13.00	43.43	Horizontal
7520.00	-66.59	5.56	-61.03	-13.00	48.03	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3816.60	-63.82	-0.59	-64.41	-13.00	51.41	Vertical
5724.90	-52.51	3.42	-49.09	-13.00	36.09	Vertical
7633.20	-64.72	6.40	-58.32	-13.00	45.32	Vertical
3816.60	-63.42	-0.10	-63.52	-13.00	50.52	Horizontal
5724.90	-60.74	3.80	-56.94	-13.00	43.94	Horizontal
7633.20	-65.31	6.24	-59.07	-13.00	46.07	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 5 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.40	-60.10	-11.51	-71.61	-13.00	58.61	Vertical
2474.10	-63.83	-8.67	-72.50	-13.00	59.50	Vertical
3298.80	-62.73	-3.89	-66.62	-13.00	53.62	Vertical
1649.40	-59.76	-10.85	-70.61	-13.00	57.61	Horizontal
2474.10	-62.65	-9.13	-71.78	-13.00	58.78	Horizontal
3298.80	-63.31	-3.96	-67.27	-13.00	54.27	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.30	-59.87	-10.70	-70.57	-13.00	57.57	Vertical
2509.50	-63.61	-8.66	-72.27	-13.00	59.27	Vertical
3346.00	-64.39	-3.33	-67.72	-13.00	54.72	Vertical
1673.30	-57.83	-10.28	-68.11	-13.00	55.11	Horizontal
2509.50	-63.10	-8.73	-71.83	-13.00	58.83	Horizontal
3346.00	-63.88	-3.42	-67.30	-13.00	54.30	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1696.60	-59.86	-9.90	-69.76	-13.00	56.76	Vertical
2544.90	-62.84	-8.45	-71.29	-13.00	58.29	Vertical
3393.20	-64.20	-2.59	-66.79	-13.00	53.79	Vertical
1696.60	-59.08	-9.70	-68.78	-13.00	55.78	Horizontal
2544.90	-62.55	-8.21	-70.76	-13.00	57.76	Horizontal
3393.20	-64.53	-2.65	-67.18	-13.00	54.18	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 7 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.00	-63.19	3.69	-59.50	-25.00	34.50	Vertical
7507.50	-65.00	5.56	-59.44	-25.00	34.44	Vertical
10010.00	-68.56	10.09	-58.47	-25.00	33.47	Vertical
5005.00	-63.65	4.02	-59.63	-25.00	34.63	Horizontal
7507.50	-67.05	5.56	-61.49	-25.00	36.49	Horizontal
10010.00	-67.35	9.47	-57.88	-25.00	32.88	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-61.60	4.23	-57.37	-25.00	32.37	Vertical
7605.00	-65.14	6.06	-59.08	-25.00	34.08	Vertical
10140.00	-67.21	10.48	-56.73	-25.00	31.73	Vertical
5070.00	-63.85	3.51	-60.34	-25.00	35.34	Horizontal
7605.00	-66.13	5.95	-60.18	-25.00	35.18	Horizontal
10140.00	-65.39	10.21	-55.18	-25.00	30.18	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.00	-61.49	3.78	-57.71	-25.00	32.71	Vertical
7702.50	-65.34	6.22	-59.12	-25.00	34.12	Vertical
10270.00	-67.83	11.48	-56.35	-25.00	31.35	Vertical
5135.00	-64.31	3.83	-60.48	-25.00	35.48	Horizontal
7702.50	-65.69	5.97	-59.72	-25.00	34.72	Horizontal
10270.00	-65.44	11.00	-54.44	-25.00	29.44	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 41 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5075.00	-60.28	4.18	-56.10	-25.00	31.10	Vertical
7612.50	-67.50	6.15	-61.35	-25.00	36.35	Vertical
10150.00	-67.17	10.32	-56.85	-25.00	31.85	Vertical
5075.00	-58.59	3.52	-55.07	-25.00	30.07	Horizontal
7612.50	-67.67	6.03	-61.64	-25.00	36.64	Horizontal
10150.00	-68.23	10.16	-58.07	-25.00	33.07	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5190.00	-61.01	3.33	-57.68	-25.00	32.68	Vertical
7785.00	-65.97	8.39	-57.58	-25.00	32.58	Vertical
10380.00	-68.53	10.75	-57.78	-25.00	32.78	Vertical
5190.00	-60.53	3.26	-57.27	-25.00	32.27	Horizontal
7785.00	-66.74	8.24	-58.50	-25.00	33.50	Horizontal
10380.00	-68.26	10.21	-58.05	-25.00	33.05	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5305.00	-59.44	3.67	-55.77	-25.00	30.77	Vertical
7957.50	-65.82	8.36	-57.46	-25.00	32.46	Vertical
10610.00	-67.24	12.12	-55.12	-25.00	30.12	Vertical
5305.00	-58.31	3.85	-54.46	-25.00	29.46	Horizontal
7957.50	-66.67	8.12	-58.55	-25.00	33.55	Horizontal
10610.00	-67.00	11.70	-55.30	-25.00	30.30	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

ANT2:

LTE band 2 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.40	-63.26	-0.36	-63.62	-13.00	50.62	Vertical
5552.10	-51.77	4.16	-47.61	-13.00	34.61	Vertical
7402.00	-66.42	6.10	-60.32	-13.00	47.32	Vertical
3701.40	-62.88	-0.17	-63.05	-13.00	50.05	Horizontal
5552.10	-60.15	4.07	-56.08	-13.00	43.08	Horizontal
7402.00	-66.70	5.78	-60.92	-13.00	47.92	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-62.64	-1.01	-63.65	-13.00	50.65	Vertical
5640.00	-51.22	3.96	-47.26	-13.00	34.26	Vertical
7520.00	-65.90	5.55	-60.35	-13.00	47.35	Vertical
3760.00	-62.51	-0.56	-63.07	-13.00	50.07	Horizontal
5640.00	-58.90	4.14	-54.76	-13.00	41.76	Horizontal
7520.00	-65.66	5.56	-60.10	-13.00	47.10	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3816.60	-63.00	-0.59	-63.59	-13.00	50.59	Vertical
5724.90	-51.53	3.42	-48.11	-13.00	35.11	Vertical
7633.20	-66.00	6.40	-59.60	-13.00	46.60	Vertical
3816.60	-63.26	-0.10	-63.36	-13.00	50.36	Horizontal
5724.90	-59.50	3.80	-55.70	-13.00	42.70	Horizontal
7633.20	-66.80	6.24	-60.56	-13.00	47.56	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 4 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.40	-63.05	-2.15	-65.20	-13.00	52.20	Vertical
5132.10	-48.00	3.80	-44.20	-13.00	31.20	Vertical
6842.80	-65.20	5.86	-59.34	-13.00	46.34	Vertical
3421.40	-63.88	-2.22	-66.10	-13.00	53.10	Horizontal
5132.10	-52.37	3.86	-48.51	-13.00	35.51	Horizontal
6842.80	-66.48	6.07	-60.41	-13.00	47.41	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.00	-62.34	-2.54	-64.88	-13.00	51.88	Vertical
5197.50	-47.70	3.25	-44.45	-13.00	31.45	Vertical
6930.00	-64.66	5.20	-59.46	-13.00	46.46	Vertical
3465.00	-63.31	-2.54	-65.85	-13.00	52.85	Horizontal
5197.50	-51.59	3.17	-48.42	-13.00	35.42	Horizontal
6930.00	-65.38	5.17	-60.21	-13.00	47.21	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3508.60	-62.68	-3.13	-65.81	-13.00	52.81	Vertical
5262.90	-48.24	3.11	-45.13	-13.00	32.13	Vertical
7017.20	-64.97	5.74	-59.23	-13.00	46.23	Vertical
3508.60	-64.36	-2.96	-67.32	-13.00	54.32	Horizontal
5262.90	-51.98	3.46	-48.52	-13.00	35.52	Horizontal
7017.20	-66.45	5.80	-60.65	-13.00	47.65	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 5 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.40	-60.22	-11.51	-71.73	-13.00	58.73	Vertical
2474.10	-61.34	-8.67	-70.01	-13.00	57.01	Vertical
3298.80	-63.48	-3.89	-67.37	-13.00	54.37	Vertical
1649.40	-58.86	-10.85	-69.71	-13.00	56.71	Horizontal
2474.10	-60.83	-9.13	-69.96	-13.00	56.96	Horizontal
3298.80	-63.53	-3.96	-67.49	-13.00	54.49	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.30	-59.83	-10.70	-70.53	-13.00	57.53	Vertical
2509.50	-60.39	-8.66	-69.05	-13.00	56.05	Vertical
3346.00	-62.91	-3.33	-66.24	-13.00	53.24	Vertical
1673.30	-58.20	-10.28	-68.48	-13.00	55.48	Horizontal
2509.50	-60.37	-8.73	-69.10	-13.00	56.10	Horizontal
3346.00	-62.89	-3.42	-66.31	-13.00	53.31	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1696.60	-60.28	-9.90	-70.18	-13.00	57.18	Vertical
2544.90	-61.34	-8.45	-69.79	-13.00	56.79	Vertical
3393.20	-63.95	-2.59	-66.54	-13.00	53.54	Vertical
1696.60	-58.52	-9.70	-68.22	-13.00	55.22	Horizontal
2544.90	-61.18	-8.21	-69.39	-13.00	56.39	Horizontal
3393.20	-63.89	-2.65	-66.54	-13.00	53.54	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 7 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.00	-62.13	3.69	-58.44	-25.00	33.44	Vertical
7507.50	-66.00	5.56	-60.44	-25.00	35.44	Vertical
10010.00	-68.23	10.09	-58.14	-25.00	33.14	Vertical
5005.00	-63.15	4.02	-59.13	-25.00	34.13	Horizontal
7507.50	-66.42	5.56	-60.86	-25.00	35.86	Horizontal
10010.00	-66.55	9.47	-57.08	-25.00	32.08	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-61.59	4.23	-57.36	-25.00	32.36	Vertical
7605.00	-65.27	6.06	-59.21	-25.00	34.21	Vertical
10140.00	-66.98	10.48	-56.50	-25.00	31.50	Vertical
5070.00	-62.16	3.51	-58.65	-25.00	33.65	Horizontal
7605.00	-65.87	5.95	-59.92	-25.00	34.92	Horizontal
10140.00	-65.92	10.21	-55.71	-25.00	30.71	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.00	-62.54	3.78	-58.76	-25.00	33.76	Vertical
7702.50	-65.32	6.22	-59.10	-25.00	34.10	Vertical
10270.00	-67.97	11.48	-56.49	-25.00	31.49	Vertical
5135.00	-63.20	3.83	-59.37	-25.00	34.37	Horizontal
7702.50	-66.27	5.97	-60.30	-25.00	35.30	Horizontal
10270.00	-66.60	11.00	-55.60	-25.00	30.60	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 41 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5075.00	-60.17	4.18	-55.99	-25.00	30.99	Vertical
7612.50	-66.53	6.15	-60.38	-25.00	35.38	Vertical
10150.00	-67.46	10.32	-57.14	-25.00	32.14	Vertical
5075.00	-59.33	3.52	-55.81	-25.00	30.81	Horizontal
7612.50	-66.58	6.03	-60.55	-25.00	35.55	Horizontal
10150.00	-67.82	10.16	-57.66	-25.00	32.66	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5190.00	-59.44	3.33	-56.11	-25.00	31.11	Vertical
7785.00	-65.86	8.39	-57.47	-25.00	32.47	Vertical
10380.00	-66.85	10.75	-56.10	-25.00	31.10	Vertical
5190.00	-59.16	3.26	-55.90	-25.00	30.90	Horizontal
7785.00	-66.08	8.24	-57.84	-25.00	32.84	Horizontal
10380.00	-66.76	10.21	-56.55	-25.00	31.55	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5305.00	-59.59	3.67	-55.92	-25.00	30.92	Vertical
7957.50	-66.88	8.36	-58.52	-25.00	33.52	Vertical
10610.00	-67.00	12.12	-54.88	-25.00	29.88	Vertical
5305.00	-60.15	3.85	-56.30	-25.00	31.30	Horizontal
7957.50	-66.52	8.12	-58.40	-25.00	33.40	Horizontal
10610.00	-67.95	11.70	-56.25	-25.00	31.25	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 2 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.40	-63.39	-0.36	-63.75	-13.00	50.75	Vertical
5552.10	-53.06	4.16	-48.90	-13.00	35.90	Vertical
7402.00	-66.74	6.10	-60.64	-13.00	47.64	Vertical
3701.40	-63.32	-0.17	-63.49	-13.00	50.49	Horizontal
5552.10	-60.52	4.07	-56.45	-13.00	43.45	Horizontal
7402.00	-64.43	5.78	-58.65	-13.00	45.65	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-62.83	-1.01	-63.84	-13.00	50.84	Vertical
5640.00	-53.71	3.96	-49.75	-13.00	36.75	Vertical
7520.00	-64.89	5.55	-59.34	-13.00	46.34	Vertical
3760.00	-61.72	-0.56	-62.28	-13.00	49.28	Horizontal
5640.00	-60.58	4.14	-56.44	-13.00	43.44	Horizontal
7520.00	-66.57	5.56	-61.01	-13.00	48.01	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3816.60	-63.34	-0.59	-63.93	-13.00	50.93	Vertical
5724.90	-53.42	3.42	-50.00	-13.00	37.00	Vertical
7633.20	-65.07	6.40	-58.67	-13.00	45.67	Vertical
3816.60	-61.66	-0.10	-61.76	-13.00	48.76	Horizontal
5724.90	-61.24	3.80	-57.44	-13.00	44.44	Horizontal
7633.20	-66.62	6.24	-60.38	-13.00	47.38	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 5 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.40	-60.32	-11.51	-71.83	-13.00	58.83	Vertical
2474.10	-63.53	-8.67	-72.20	-13.00	59.20	Vertical
3298.80	-62.65	-3.89	-66.54	-13.00	53.54	Vertical
1649.40	-59.86	-10.85	-70.71	-13.00	57.71	Horizontal
2474.10	-62.83	-9.13	-71.96	-13.00	58.96	Horizontal
3298.80	-63.57	-3.96	-67.53	-13.00	54.53	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.30	-59.72	-10.70	-70.42	-13.00	57.42	Vertical
2509.50	-62.88	-8.66	-71.54	-13.00	58.54	Vertical
3346.00	-63.56	-3.33	-66.89	-13.00	53.89	Vertical
1673.30	-58.02	-10.28	-68.30	-13.00	55.30	Horizontal
2509.50	-62.20	-8.73	-70.93	-13.00	57.93	Horizontal
3346.00	-64.44	-3.42	-67.86	-13.00	54.86	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1696.60	-60.46	-9.90	-70.36	-13.00	57.36	Vertical
2544.90	-62.84	-8.45	-71.29	-13.00	58.29	Vertical
3393.20	-62.85	-2.59	-65.44	-13.00	52.44	Vertical
1696.60	-58.78	-9.70	-68.48	-13.00	55.48	Horizontal
2544.90	-62.89	-8.21	-71.10	-13.00	58.10	Horizontal
3393.20	-64.11	-2.65	-66.76	-13.00	53.76	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 7 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.00	-61.31	3.69	-57.62	-25.00	32.62	Vertical
7507.50	-65.02	5.56	-59.46	-25.00	34.46	Vertical
10010.00	-69.34	10.09	-59.25	-25.00	34.25	Vertical
5005.00	-62.28	4.02	-58.26	-25.00	33.26	Horizontal
7507.50	-65.97	5.56	-60.41	-25.00	35.41	Horizontal
10010.00	-65.64	9.47	-56.17	-25.00	31.17	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-61.18	4.23	-56.95	-25.00	31.95	Vertical
7605.00	-66.29	6.06	-60.23	-25.00	35.23	Vertical
10140.00	-68.49	10.48	-58.01	-25.00	33.01	Vertical
5070.00	-62.06	3.51	-58.55	-25.00	33.55	Horizontal
7605.00	-65.58	5.95	-59.63	-25.00	34.63	Horizontal
10140.00	-67.75	10.21	-57.54	-25.00	32.54	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.00	-62.01	3.78	-58.23	-25.00	33.23	Vertical
7702.50	-67.08	6.22	-60.86	-25.00	35.86	Vertical
10270.00	-68.55	11.48	-57.07	-25.00	32.07	Vertical
5135.00	-62.55	3.83	-58.72	-25.00	33.72	Horizontal
7702.50	-65.49	5.97	-59.52	-25.00	34.52	Horizontal
10270.00	-67.64	11.00	-56.64	-25.00	31.64	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 41 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5075.00	-60.93	4.18	-56.75	-25.00	31.75	Vertical
7612.50	-65.66	6.15	-59.51	-25.00	34.51	Vertical
10150.00	-67.53	10.32	-57.21	-25.00	32.21	Vertical
5075.00	-58.49	3.52	-54.97	-25.00	29.97	Horizontal
7612.50	-66.37	6.03	-60.34	-25.00	35.34	Horizontal
10150.00	-66.78	10.16	-56.62	-25.00	31.62	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5190.00	-60.60	3.33	-57.27	-25.00	32.27	Vertical
7785.00	-65.81	8.39	-57.42	-25.00	32.42	Vertical
10380.00	-66.89	10.75	-56.14	-25.00	31.14	Vertical
5190.00	-58.13	3.26	-54.87	-25.00	29.87	Horizontal
7785.00	-67.12	8.24	-58.88	-25.00	33.88	Horizontal
10380.00	-67.11	10.21	-56.90	-25.00	31.90	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5305.00	-59.44	3.67	-55.77	-25.00	30.77	Vertical
7957.50	-66.88	8.36	-58.52	-25.00	33.52	Vertical
10610.00	-68.27	12.12	-56.15	-25.00	31.15	Vertical
5305.00	-60.11	3.85	-56.26	-25.00	31.26	Horizontal
7957.50	-65.76	8.12	-57.64	-25.00	32.64	Horizontal
10610.00	-67.59	11.70	-55.89	-25.00	30.89	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

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