


FCC REPORT

Report Reference No. : CHTEW21120125 Report Verification: 

Project No. : SHT2108128604EW

FCC ID. : 2A3QD-WB-HSTS61A01

Applicant's name : Telecom Square, Inc.

Address. : 3F Homat Horizon Building, 6-2 Gobancho, Chiyoda-ku, Tokyo 102-0076

Test item description : TS-61

Trade Mark : -

Model/Type reference. : TS-61

Listed Model(s) : -

Standard : FCC CFR Title 47 Part 2
FCC CFR Title 47 Part 22
FCC CFR Title 47 Part 24
FCC CFR Title 47 Part 27

Date of receipt of test sample. : Sep.02, 2021

Date of testing. : Sep.03, 2021-Dec.17, 2021

Date of issue. : Dec.20, 2021

Result. : Pass

Compiled by
(Position+Printed name+Signature): File administrator Fanghui Zhu

Fanghui Zhu

Supervised by
(Position+Printed name+Signature): Project Engineer David Chen

David Chen

Approved by
(position+printedname+signature)....: Manager Hans Hu

Hans Hu

Testing Laboratory Name : Shenzhen Huatongwei International Inspection Co., Ltd.

Address. : 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Applicable Standards

The tests were performed according to following standards:

[FCC Rules Part 2](#): FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

[FCC Rules Part 22](#): PUBLIC MOBILE SERVICES

[FCC Rules Part 24](#): PERSONAL COMMUNICATIONS SERVICES

[FCC Rules Part 27](#): MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

[ANSI C63.26: 2015](#): American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

[KDB 971168 D01 Power Meas License Digital Systems v03](#): MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2021-12-20	Original

2. Test Description

Test Item	Section in CFR 47	Result	Test Engineer
Conducted Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50	Pass	Tiancheng.Huang
Peak-to-Average Ratio	Part 24.232 Part 27.50	Pass	Tiancheng.Huang
99% Occupied Bandwidth & 26 dB Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53	Pass	Tiancheng.Huang
Band Edge	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	Tiancheng.Huang
Conducted Spurious Emissions	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	Tiancheng.Huang
Frequency stability VS Temperature	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54	Pass	Tiancheng.Huang
Frequency stability VS Voltage	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54	Pass	Tiancheng.Huang
ERP and EIRP	Part 22.913(a) Part 24.232(b) Part 27.50	Pass	Tiancheng.Huang
Radiated Spurious Emissions	Part 2.1053 Part 22.917 Part 24.238 Part 27.53	Pass	Quanhai Deng

Note: The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	Telecom Square, Inc.
Address:	3F Homat Horizon Building, 6-2 Gobancho, Chiyoda-ku, Tokyo 102-0076
Manufacturer:	Skyroam Technology Co., Ltd.
Address:	No.902, 9th Floor, Weisheng Technology Building, No.9966, Shennan Avenue, Shenzhen, Guangdong, China

3.2. Product Description

Name of EUT:	TS-61		
Trade Mark:	-		
Model No.:	TS-61		
Listed Model(s):	-		
SIM Information:	Support One SIM Card		
Power supply:	DC 3.8V		
Hardware version:	Y6154A-V1.1		
Software version:	y6154a_a_skyraom_v01_2021062914		
4G			
Operation Band:	<input checked="" type="checkbox"/> FDD Band 2 <input checked="" type="checkbox"/> FDD Band 7 <input checked="" type="checkbox"/> FDD Band 25 <input checked="" type="checkbox"/> FDD Band CA_7C	<input checked="" type="checkbox"/> FDD Band 4 <input checked="" type="checkbox"/> FDD Band 12 <input checked="" type="checkbox"/> FDD Band 26	<input checked="" type="checkbox"/> FDD Band 5 <input checked="" type="checkbox"/> FDD Band 17 <input checked="" type="checkbox"/> TDD Band 41
Transmit frequency:	FDD Band 2: 1850.7 MHz – 1909.3 MHz FDD Band 4: 1710.7 MHz – 1754.3 MHz FDD Band 5: 824.7 MHz – 848.3 MHz FDD Band 7: 2502.5 MHz – 2567.5 MHz FDD Band 12: 699.7 MHz – 715.3 MHz FDD Band 17: 706.5 MHz – 713.5 MHz FDD Band 25: 1850.7 MHz- 1914.3 MHz FDD Band 26: 824.7 MHz – 848.3 MHz TDD Band 41: 2498.5 MHz – 2687.5 MHz FDD Band CA_7C: 2502.5 MHz – 2567.5 MHz		

Receive frequency:	FDD Band 2: 1930.7 MHz – 1989.3 MHz FDD Band 4: 2110.7 MHz – 2154.3 MHz FDD Band 5: 869.7 MHz – 893.3 MHz FDD Band 7: 2622.5 MHz – 2687.5 MHz FDD Band 12: 729.7 MHz – 745.3 MHz FDD Band 17: 736.5 MHz – 743.5 MHz FDD Band 25: 1930.7 MHz- 1994.3 MHz FDD Band 26: 869.7 MHz – 893.3 MHz TDD Band 41: 2498.5 MHz – 2687.5 MHz FDD Band CA_7C: 2622.5 MHz – 2687.5 MHz
Channel bandwidth:	FDD Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz FDD Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz FDD Band 5: 1.4MHz, 3MHz, 5MHz, 10MHz FDD Band 7: 5MHz, 10MHz, 15MHz, 20MHz FDD Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz FDD Band 17: 5MHz, 10MHz FDD Band 25: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz FDD Band 26: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz TDD Band 41: 5MHz, 10MHz, 15MHz, 20MHz FDD Band CA_7C: 10+20MHz, 20+10MHz, 15+10MHz, 15+15MHz, 15+20MHz, 20+15MHz, 20+20MHz
Power Class:	Class 3
Modulation type:	QPSK, 16QAM, 64QAM
Antenna type	FPC Antenna
Antenna Gain	Band2: 1.3dBi Band4: 1.1dBi Band5: 0.4dBi Band7: 1.8dBi Band12: 0.3dBi Band17: 0.3dBi Band25: 1.1dBi Band26: 0.4dBi Band41: 1.5dBi FDD Band CA_7C: 1.8dBi

3.3. Operation state

➤ Test frequency list

FDD Band 2	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	Low Range	1.4 3 5 10 15 ^[1] 20 ^[1]	18607 18615 18625 18650 18675 18700	1850.7 1851.5 1852.5 1855 1857.5 1860	607 615 625 650 675 700	1930.7 1931.5 1932.5 1935 1937.5 1940
FDD Band 4	Mid Range	1.4/3/5/10 15 ^[1] /20 ^[1]	18900	1880	900	1960
	High Range	1.4 3 5 10 15 ^[1] 20 ^[1]	19193 19185 19175 19150 19125 19100	1909.3 1908.5 1907.5 1905 1902.5 1900	1193 1185 1175 1150 1125 1100	1989.3 1988.5 1987.5 1985 1982.5 1980
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.						
FDD Band 5	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	Low Range	1.4 3 5 10 15 20	19957 19965 19975 20000 20025 20050	1710.7 1711.5 1712.5 1715 1717.5 1720	1957 1965 1975 2000 2025 2050	2110.7 2111.5 2112.5 2115 2117.5 2120
FDD Band 7	Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
	High Range	1.4 3 5 10 15 20	20393 20385 20375 20350 20325 20300	1754.3 1753.5 1752.5 1750 1747.5 1745	2393 2385 2375 2350 2325 2300	2154.3 2153.5 2152.5 2150 2147.5 2145
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.						
FDD Band 12	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	Low Range	1.4 3 5 10 ^[1] 20 ^[1]	20407 20415 20425 20450	824.7 825.5 826.5 829	2407 2415 2425 2450	869.7 870.5 871.5 874
FDD Band 17	Mid Range	1.4/3/5/10 ^[1]	20525	836.5	2525	881.5
	High Range	1.4 3 5 10 ^[1]	20643 20635 20625 20600	848.3 847.5 846.5 844	2643 2635 2625 2600	893.3 892.5 891.5 889
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.						
FDD Band 12	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	Low Range	5 10 15 20 ^[1]	20775 20800 20825 20850	2502.5 2505 2507.5 2510	2775 2800 2825 2850	2622.5 2625 2627.5 2630
FDD Band 12	Mid Range	5/10/15/20 ^[1]	21100	2535	3100	2655
	High Range	5 10 15 20 ^[1]	21425 21400 21375 21350	2567.5 2565 2562.5 2560	3425 3400 3375 3350	2687.5 2685 2682.5 2680
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.						
FDD Band 12	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	Low Range	1.4 3 5 ^[1] 10 ^[1]	23017 23025 23035 23060	699.7 700.5 701.5 704	5017 5025 5035 5060	729.7 730.5 731.5 734
FDD Band 12	Mid Range	1.4/3/5 ^[1] /10 ^[1]	23095	707.5	5095	737.5
	High Range	1.4 3 5 ^[1] 10 ^[1]	23173 23165 23155 23130	715.3 714.5 713.5 711	5173 5165 5155 5130	745.3 744.5 743.5 741
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.						
FDD Band 17	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	Low Range	5 ^[1] 10 ^[1]	23755 23780	706.5 709	5755 5780	736.5 739
FDD Band 17	Mid Range	5 ^[1] /10 ^[1]	23790	710	5790	740
	High Range	5 ^[1] 10 ^[1]	23825 23800	713.5 711	5825 5800	743.5 741
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.						

FDD Band 25	<table><tr><th>Test Frequency ID</th><th>Bandwidth [MHz]</th><th>N_{UL}</th><th>Frequency of Uplink [MHz]</th><th>N_{DL}</th><th>Frequency of Downlink [MHz]</th></tr><tr><td rowspan="6">Low Range</td><td>1.4</td><td>26047</td><td>1850.7</td><td>8047</td><td>1930.7</td></tr><tr><td>3</td><td>26055</td><td>1851.5</td><td>8055</td><td>1931.5</td></tr><tr><td>5</td><td>26065</td><td>1852.5</td><td>8065</td><td>1932.5</td></tr><tr><td>10</td><td>26090</td><td>1855</td><td>8090</td><td>1935</td></tr><tr><td>15 ^[1]</td><td>26115</td><td>1857.5</td><td>8115</td><td>1937.5</td></tr><tr><td>20 ^[1]</td><td>26140</td><td>1860</td><td>8140</td><td>1940</td></tr><tr><td>Mid Range</td><td>1.4/3/5/10/15 ^[1]/20 ^[1]</td><td>26365</td><td>1882.5</td><td>8365</td><td>1962.5</td></tr><tr><td rowspan="6">High Range</td><td>1.4</td><td>26683</td><td>1914.3</td><td>8683</td><td>1994.3</td></tr><tr><td>3</td><td>26675</td><td>1913.5</td><td>8675</td><td>1993.5</td></tr><tr><td>5</td><td>26665</td><td>1912.5</td><td>8665</td><td>1992.5</td></tr><tr><td>10</td><td>26640</td><td>1910</td><td>8640</td><td>1990</td></tr><tr><td>15 ^[1]</td><td>26615</td><td>1907.5</td><td>8615</td><td>1987.5</td></tr><tr><td>20 ^[1]</td><td>26590</td><td>1905</td><td>8590</td><td>1985</td></tr><tr><td colspan="6">NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.</td></tr></table>	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]	Low Range	1.4	26047	1850.7	8047	1930.7	3	26055	1851.5	8055	1931.5	5	26065	1852.5	8065	1932.5	10	26090	1855	8090	1935	15 ^[1]	26115	1857.5	8115	1937.5	20 ^[1]	26140	1860	8140	1940	Mid Range	1.4/3/5/10/15 ^[1] /20 ^[1]	26365	1882.5	8365	1962.5	High Range	1.4	26683	1914.3	8683	1994.3	3	26675	1913.5	8675	1993.5	5	26665	1912.5	8665	1992.5	10	26640	1910	8640	1990	15 ^[1]	26615	1907.5	8615	1987.5	20 ^[1]	26590	1905	8590	1985	NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.																																																																																																																																																																																																													
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FDD Band 26	<table><tr><th>Test Frequency ID</th><th>Banwidth[MHz]</th><th>N_{UL}</th><th>Frequency of Uplink [MHz]</th><th>N_{DL}</th><th>Frequency of Downlink [MHz]</th></tr><tr><td rowspan="5">Low Range</td><td>1.4</td><td>26797</td><td>824.7</td><td>8797</td><td>869.7</td></tr><tr><td>3</td><td>26805</td><td>825.5</td><td>8805</td><td>870.5</td></tr><tr><td>5</td><td>26815</td><td>826.5</td><td>8815</td><td>871.5</td></tr><tr><td>10</td><td>26840</td><td>829</td><td>8840</td><td>874</td></tr><tr><td>15</td><td>26865</td><td>831.5</td><td>8865</td><td>876.5</td></tr><tr><td>Mid Range</td><td>1.4/3/5/10/15</td><td>26915</td><td>836.5</td><td>8915</td><td>881.5</td></tr><tr><td rowspan="5">High Range</td><td>1.4</td><td>27033</td><td>848.3</td><td>9033</td><td>893.3</td></tr><tr><td>3</td><td>27025</td><td>847.5</td><td>9025</td><td>892.5</td></tr><tr><td>5</td><td>27015</td><td>846.5</td><td>9015</td><td>891.5</td></tr><tr><td>10</td><td>26990</td><td>844</td><td>8990</td><td>889</td></tr><tr><td>15</td><td>26965</td><td>841.5</td><td>8965</td><td>886.5</td></tr></table>	Test Frequency ID	Banwidth[MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]	Low Range	1.4	26797	824.7	8797	869.7	3	26805	825.5	8805	870.5	5	26815	826.5	8815	871.5	10	26840	829	8840	874	15	26865	831.5	8865	876.5	Mid Range	1.4/3/5/10/15	26915	836.5	8915	881.5	High Range	1.4	27033	848.3	9033	893.3	3	27025	847.5	9025	892.5	5	27015	846.5	9015	891.5	10	26990	844	8990	889	15	26965	841.5	8965	886.5																																																																																																																																																																																																																								
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TDD Band 41	<table><tr><th>Test Frequency ID</th><th>Bandwidth [MHz]</th><th>EARFCN</th><th>Frequency (UL and DL) [MHz]</th></tr><tr><td rowspan="4">Low Range</td><td>5</td><td>39675</td><td>2498.5</td></tr><tr><td>10</td><td>39700</td><td>2501</td></tr><tr><td>15</td><td>39725</td><td>2503.5</td></tr><tr><td>20</td><td>39750</td><td>2506</td></tr><tr><td>Mid Range</td><td>5/10/15/20</td><td>40620</td><td>2593</td></tr><tr><td rowspan="4">High Range</td><td>5</td><td>41565</td><td>2687.5</td></tr><tr><td>10</td><td>41540</td><td>2685</td></tr><tr><td>15</td><td>41515</td><td>2682.5</td></tr><tr><td>20</td><td>41490</td><td>2680</td></tr></table>	Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]	Low Range	5	39675	2498.5	10	39700	2501	15	39725	2503.5	20	39750	2506	Mid Range	5/10/15/20	40620	2593	High Range	5	41565	2687.5	10	41540	2685	15	41515	2682.5	20	41490	2680																																																																																																																																																																																																																																																						
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	15	39725	2503.5																																																																																																																																																																																																																																																																																						
	20	39750	2506																																																																																																																																																																																																																																																																																						
Mid Range	5/10/15/20	40620	2593																																																																																																																																																																																																																																																																																						
High Range	5	41565	2687.5																																																																																																																																																																																																																																																																																						
	10	41540	2685																																																																																																																																																																																																																																																																																						
	15	41515	2682.5																																																																																																																																																																																																																																																																																						
	20	41490	2680																																																																																																																																																																																																																																																																																						
CA_7C	<table><tr><th rowspan="2">Range</th><th rowspan="2">CC-Combo / N_{RB,UL} [RB]</th><th colspan="5">CC1 Note1</th><th colspan="5">CC2 Note1</th></tr><tr><th>BW [RB]</th><th>N_{UL}</th><th>f_{UL} [MHz]</th><th>N_{DL}</th><th>f_{DL} [MHz]</th><th>BW [RB]</th><th>N_{UL}</th><th>f_{UL} [MHz]</th><th>N_{DL}</th><th>f_{DL} [MHz]</th></tr><tr><td rowspan="6">Low</td><td rowspan="2">50+100</td><td>50</td><td>20805</td><td>2505.5</td><td>2805</td><td>2625.5</td><td>100</td><td>20949</td><td>2519.9</td><td>2949</td><td>2639.9</td></tr><tr><td>100</td><td>20850</td><td>2510</td><td>2850</td><td>2630</td><td>50</td><td>20994</td><td>2524.4</td><td>2994</td><td>2644.4</td></tr><tr><td>75+50</td><td>75</td><td>20825</td><td>2507.5</td><td>2825</td><td>2627.5</td><td>50</td><td>20945</td><td>2519.5</td><td>2945</td><td>2639.5</td></tr><tr><td>75+75</td><td>75</td><td>20825</td><td>2507.5</td><td>2825</td><td>2627.5</td><td>75</td><td>20975</td><td>2522.5</td><td>2975</td><td>2642.5</td></tr><tr><td rowspan="2">75+100</td><td>75</td><td>20828</td><td>2507.8</td><td>2828</td><td>2627.8</td><td>100</td><td>20999</td><td>2524.9</td><td>2999</td><td>2644.9</td></tr><tr><td>100</td><td>20850</td><td>2510</td><td>2850</td><td>2630</td><td>75</td><td>21021</td><td>2527.1</td><td>3021</td><td>2647.1</td></tr><tr><td rowspan="6">Mid</td><td rowspan="2">100+100</td><td>100</td><td>20850</td><td>2510</td><td>2850</td><td>2630</td><td>100</td><td>21048</td><td>2529.8</td><td>3048</td><td>2649.8</td></tr><tr><td>50</td><td>21006</td><td>2525.6</td><td>3006</td><td>2645.6</td><td>100</td><td>21150</td><td>2540</td><td>3150</td><td>2660</td></tr><tr><td rowspan="2">50+100</td><td>50</td><td>21051</td><td>2530.1</td><td>3051</td><td>2650.1</td><td>50</td><td>21195</td><td>2544.5</td><td>3195</td><td>2664.5</td></tr><tr><td>100</td><td>21051</td><td>2530.1</td><td>3051</td><td>2650.1</td><td>50</td><td>21171</td><td>2542.1</td><td>3171</td><td>2662.1</td></tr><tr><td>75+50</td><td>75</td><td>21051</td><td>2530.1</td><td>3051</td><td>2650.1</td><td>50</td><td>21171</td><td>2542.1</td><td>3171</td><td>2662.1</td></tr><tr><td>75+75</td><td>75</td><td>21025</td><td>2527.5</td><td>3025</td><td>2647.5</td><td>75</td><td>21175</td><td>2542.5</td><td>3175</td><td>2662.5</td></tr><tr><td rowspan="6">High</td><td rowspan="2">75+100</td><td>75</td><td>21003</td><td>2525.3</td><td>3003</td><td>2645.3</td><td>100</td><td>21174</td><td>2542.4</td><td>3174</td><td>2662.4</td></tr><tr><td>100</td><td>21026</td><td>2527.6</td><td>3026</td><td>2647.6</td><td>75</td><td>21197</td><td>2544.7</td><td>3197</td><td>2664.7</td></tr><tr><td rowspan="2">100+100</td><td>100</td><td>21001</td><td>2525.1</td><td>3001</td><td>2645.1</td><td>100</td><td>21199</td><td>2544.9</td><td>3199</td><td>2664.9</td></tr><tr><td>50</td><td>21206</td><td>2545.6</td><td>3206</td><td>2665.6</td><td>100</td><td>21350</td><td>2560</td><td>3350</td><td>2680</td></tr><tr><td rowspan="2">50+100</td><td>50</td><td>21251</td><td>2550.1</td><td>3251</td><td>2670.1</td><td>50</td><td>21395</td><td>2564.5</td><td>3395</td><td>2684.5</td></tr><tr><td>100</td><td>21251</td><td>2550.1</td><td>3251</td><td>2670.1</td><td>50</td><td>21395</td><td>2564.5</td><td>3395</td><td>2684.5</td></tr><tr><td rowspan="6">Note 1: Carriers in increasing frequency order.</td><td rowspan="2">75+50</td><td>75</td><td>21277</td><td>2552.7</td><td>3277</td><td>2672.7</td><td>50</td><td>21397</td><td>2564.7</td><td>3397</td><td>2684.7</td></tr><tr><td>75</td><td>21225</td><td>2547.5</td><td>3225</td><td>2667.5</td><td>75</td><td>21375</td><td>2562.5</td><td>3375</td><td>2682.5</td></tr><tr><td rowspan="2">75+75</td><td>75</td><td>21179</td><td>2542.9</td><td>3179</td><td>2662.9</td><td>100</td><td>21350</td><td>2560</td><td>3350</td><td>2680</td></tr><tr><td>75</td><td>21179</td><td>2542.9</td><td>3179</td><td>2662.9</td><td>100</td><td>21350</td><td>2560</td><td>3350</td><td>2680</td></tr><tr><td rowspan="2">75+100</td><td>75</td><td>21201</td><td>2545.1</td><td>3201</td><td>2665.1</td><td>75</td><td>21372</td><td>2562.2</td><td>3372</td><td>2682.2</td></tr><tr><td>100</td><td>21152</td><td>2540.2</td><td>3152</td><td>2660.2</td><td>100</td><td>21350</td><td>2560</td><td>3350</td><td>2680</td></tr></table>	Range	CC-Combo / N _{RB,UL} [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	50	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	100	21051	2530.1	3051	2650.1	50	21171	2542.1	3171	2662.1	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	High	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	50	21206	2545.6	3206	2665.6	100	21350	2560	3350	2680	50+100	50	21251	2550.1	3251	2670.1	50	21395	2564.5	3395	2684.5	100	21251	2550.1	3251	2670.1	50	21395	2564.5	3395	2684.5	Note 1: Carriers in increasing frequency order.	75+50	75	21277	2552.7	3277	2672.7	50	21397	2564.7	3397	2684.7	75	21225	2547.5	3225	2667.5	75	21375	2562.5	3375	2682.5	75+75	75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680	75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680	75+100	75	21201	2545.1	3201	2665.1	75	21372	2562.2	3372	2682.2	100	21152	2540.2	3152	2660.2	100	21350	2560	3350	2680
Range	CC-Combo / N _{RB,UL} [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																																																																																																																																																																																																																																																																														
		50	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																																																																																																																																																																																																																																																																														
		100	21051	2530.1	3051	2650.1	50	21171	2542.1	3171	2662.1																																																																																																																																																																																																																																																																														
	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																																																																																																																																																																																																																																																																														
High	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																																																																																																																																																																																																																																																																														
		50	21206	2545.6	3206	2665.6	100	21350	2560	3350	2680																																																																																																																																																																																																																																																																														
	50+100	50	21251	2550.1	3251	2670.1	50	21395	2564.5	3395	2684.5																																																																																																																																																																																																																																																																														
		100	21251	2550.1	3251	2670.1	50	21395	2564.5	3395	2684.5																																																																																																																																																																																																																																																																														
Note 1: Carriers in increasing frequency order.	75+50	75	21277	2552.7	3277	2672.7	50	21397	2564.7	3397	2684.7																																																																																																																																																																																																																																																																														
		75	21225	2547.5	3225	2667.5	75	21375	2562.5	3375	2682.5																																																																																																																																																																																																																																																																														
	75+75	75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680																																																																																																																																																																																																																																																																														
		75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680																																																																																																																																																																																																																																																																														
	75+100	75	21201	2545.1	3201	2665.1	75	21372	2562.2	3372	2682.2																																																																																																																																																																																																																																																																														
		100	21152	2540.2	3152	2660.2	100	21350	2560	3350	2680																																																																																																																																																																																																																																																																														

3.4. EUT operation mode

For RF test items

The EUT has been tested under typical operating condition. Testing was performed by configuring EUT to maximum output power status.

Test Items	Band	Bandwidth (MHz)						Modulation		RB #		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
Conducted Output Power	2	o	o	o	o	o	o	o	o	o	o	o
	4	o	o	o	o	o	o	o	o	o	o	o
	5	o	o	o	o	-	-	o	o	o	o	o
	7	-	-	o	o	o	o	o	o	o	o	o
	12	o	o	o	o	-	-	o	o	o	o	o
	17	-	-	o	o	-	-	o	o	o	o	o
	25	o	o	o	o	o	o	o	o	o	o	o
	26	o	o	o	o	o	-	o	o	o	o	o
	41	-	-	o	o	o	o	o	o	o	o	o
Peak-to-Average Ratio	2	o	o	o	o	o	o	o	o	o	-	o
	4	o	o	o	o	o	o	o	o	o	-	o
	5	o	o	o	o	-	-	o	o	o	-	o
	7	-	-	o	o	o	o	o	o	o	-	o
	12	o	o	o	o	-	-	o	o	o	-	o
	17	-	-	o	o	-	-	o	o	o	-	o
	25	o	o	o	o	o	o	o	o	o	-	o
	26	o	o	o	o	o	-	o	o	o	-	o
	41	-	-	o	o	o	o	o	o	o	-	o
99% Occupied Bandwidth & 26 dB Bandwidth	2	o	o	o	o	o	o	o	o	-	-	o
	4	o	o	o	o	o	o	o	o	-	-	o
	5	o	o	o	o	-	-	o	o	-	-	o
	7	-	-	o	o	o	o	o	o	-	-	o
	12	o	o	o	o	-	-	o	o	-	-	o
	17	-	-	o	o	-	-	o	o	-	-	o
	25	o	o	o	o	o	o	o	o	-	-	o
	26	o	o	o	o	o	-	o	o	-	-	o
	41	-	-	o	o	o	o	o	o	-	-	o
Band Edge	2	o	o	o	o	o	o	o	o	o	-	o
	4	o	o	o	o	o	o	o	o	o	-	o
	5	o	o	o	o	-	-	o	o	o	-	o
	7	-	-	o	o	o	o	o	o	o	-	o
	12	o	o	o	o	-	-	o	o	o	-	o
	17	-	-	o	o	-	-	o	o	o	-	o
	25	o	o	o	o	o	o	o	o	o	-	o
	26	o	o	o	o	o	-	o	o	o	-	o
	41	-	-	o	o	o	o	o	o	o	-	o

Conducted Spurious Emission	2	o	o	o	o	o	o	o	o	o	-	-
	4	o	o	o	o	o	o	o	o	o	-	-
	5	o	o	o	o	-	-	o	o	o	-	-
	7	-	-	o	o	o	o	o	o	o	-	-
	12	o	o	o	o	-	-	o	o	o	-	-
	17	-	-	o	o	-	-	o	o	o	-	-
	25	o	o	o	o	o	o	o	o	o	-	-
	26	o	o	o	o	o	-	o	o	o	-	-
	41	-	-	o	o	o	o	o	o	o	-	-
Frequency Stability	2	o	o	o	o	o	o	o	o	-	-	o
	4	o	o	o	o	o	o	o	o	-	-	o
	5	o	o	o	o	-	-	o	o	-	-	o
	7	-	-	o	o	o	o	o	o	-	-	o
	12	o	o	o	o	-	-	o	o	-	-	o
	17	-	-	o	o	-	-	o	o	-	-	o
	25	o	o	o	o	o	o	o	o	-	-	o
	26	o	o	o	o	o	-	o	o	-	-	o
	41	-	-	o	o	o	o	o	o	-	-	o
ERP and EIRP	2	o	o	o	o	o	o	o	o	o	-	-
	4	o	o	o	o	o	o	o	o	o	-	-
	5	o	o	o	o	-	-	o	o	o	-	-
	7	-	-	o	o	o	o	o	o	o	-	-
	12	o	o	o	o	-	-	o	o	o	-	-
	17	-	-	o	o	-	-	o	o	o	-	-
	25	o	o	o	o	o	o	o	o	o	-	-
	26	o	o	o	o	o	-	o	o	o	-	-
	41	-	-	o	o	o	o	o	o	o	-	-
Radiated Spurious Emission	2	o	o	o	o	o	o	o	o	o	-	-
	4	o	o	o	o	o	o	o	o	o	-	-
	5	o	o	o	o	-	-	o	o	o	-	-
	7	-	-	o	o	o	o	o	o	o	-	-
	12	o	o	o	o	-	-	o	o	o	-	-
	17	--	-	o	o	-	-	o	o	o	-	-
	25	o	o	o	o	o	o	o	o	o	-	-
	26	o	o	o	o	o	-	o	o	o	-	-
	41	-	-	o	o	o	o	o	o	o	-	-
Remark	<ol style="list-style-type: none"> The mark "o" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not test. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 											

Test Items	Band	Bandwidth (MHz)							Modulation			RB #		
		20+20	20+15	15+20	20+10	10+20	15+15	15+10	QPSK	16QAM	64QAM	1	Half	Full
Conducted Output Power	CA_7C	○	○	○	○	○	○	○	○	○	○	○	○	○
Peak-to-Average Ratio	CA_7C	○	-	-	-	-	-	-	○	○	○	-	-	○
99% Occupied Bandwidth & 26 dB Bandwidth	CA_7C	○	○	○	○	○	○	○	○	○	○	-	-	○
Band Edge	CA_7C	○	○	○	○	○	○	○	○	○	○	○	-	○
Conducted Spurious Emission	CA_7C	○	-	-	-	-	-	-	○	-	-	○	-	-
Frequency Stability	CA_7C	○	-	-	-	-	-	-	○	○	○	-	-	○
EIRP	CA_7C	○	○	○	○	○	○	○	○	○	○	○	-	-
Radiated Spurious Emission	CA_7C	○	-	-	-	-	-	-	○	-	-	○	-	-
Remark	1. The mark "○" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not test. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.													

3.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

○	/	Manufacturer:	/
		Model No.:	/
○	/	Manufacturer:	/
		Model No.:	/

3.6. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China	
Connect information:	Tel: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC	762235

4.2. Equipments Used during the Test

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2021/9/13	2022/9/12
●	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2021/9/13	2022/9/12
●	Spectrum Analyzer	Agilent	HTWE0286	N9020A	MY50510187	2021/9/13	2022/9/12
●	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2021/9/13	2022/9/12
●	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A

● Radiated Spurious Emission

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2022/09/26
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2021/9/13	2022/9/12
●	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/06	2022/04/05
●	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2020/4/27	2023/4/27
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/04/06	2022/04/05
●	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
●	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2021/11/5	2022/11/4
●	Broadband Preamplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2021/03/05	2022/03/04
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2021/02/26	2022/02/25
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
●	RF Connection Cable	HUBER+SUHNER	HTWE0119-05	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
●	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2021/02/26	2022/02/25
●	EMI Test Software	Audix	N/A	E3	N/A	N/A	N/A

● Auxiliary Equipment							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2021/9/13	2022/9/12
●	High pass filter	Wainwright	HTWE0297	WHKX3.0/18G-10SS	38	2021/05/14	2022/05/13
○	Band Stop filter		HTW0039	N/A	N/A	2021/01/27	2022/01/26

4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Voltage	VN=Nominal Voltage	DC 3.80V
	VL=Lower Voltage	DC 3.42V
	VH=Higher Voltage	DC 4.18V
Temperature	TN=Normal Temperature	25 °C
	Extreme Temperature	From -30° to + 50° centigrade
Humidity	30~60 %	
Air Pressure	950-1050 hPa	

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.51 dB	(1)
Transmitter power Radiated	2.66dB for <1GHz 3.44dB for >1GHz	(1)
Conducted spurious emissions 9kHz~40GHz	0.51 dB	(1)
Radiated spurious emissions	2.66dB for <1GHz 3.44dB for >1GHz	(1)
Occupied Bandwidth	15Hz for <1GHz 70Hz for >1GHz	(1)
Frequency error	15Hz for <1GHz 70Hz for >1GHz	(1)

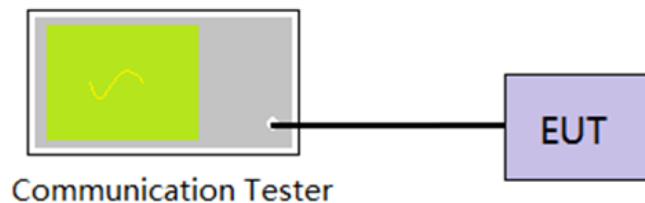
(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT

N/A

TEST CONFIGURATION**TEST PROCEDURE**

1. The EUT output port was connected to communication tester.
2. Set EUT at maximum power through communication tester.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS☒ **Passed** ☐ **Not Applicable**

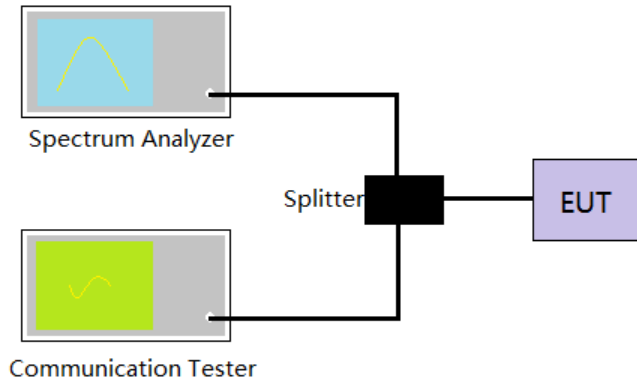
Refer to appendix A on the section 8 appendix report A, B, C

5.2. Peak-to-Average Ratio

LIMIT

13dB

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
2. Set EUT in maximum power output.
3. Center Frequency = Carrier frequency, RBW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed.
 - i. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.
 - ii. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power
6. Record the maximum PAPR level associated with a probability of 0.1%.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

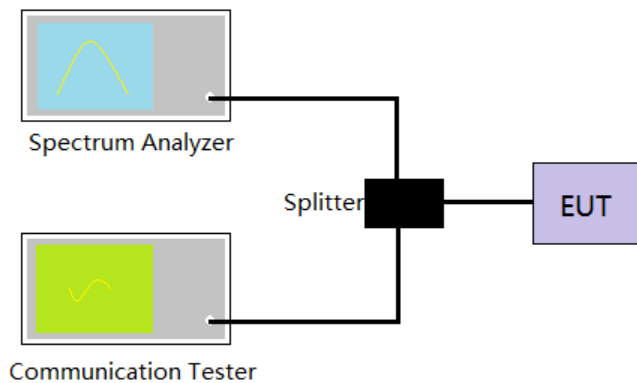
☒ **Passed** ☐ **Not Applicable**

Refer to appendix B on the section 8 appendix report A, B, C

5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

LIMIT

N/A

TEST CONFIGURATION**TEST PROCEDURE**

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
2. Set EUT in maximum power output.
3. Spectrum analyzer setting as follow:
Center Frequency= Carrier frequency, RBW=1% to 5% of the anticipated OBW, VBW= 3 * RBW,
Detector=Peak,
Trace maximum hold.
4. Record the value of 99% Occupied bandwidth and 26dB bandwidth.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS☒ **Passed** ☐ **Not Applicable**

Refer to appendix C on the section 8 appendix report A, B, C

5.4. Band Edge

LIMIT

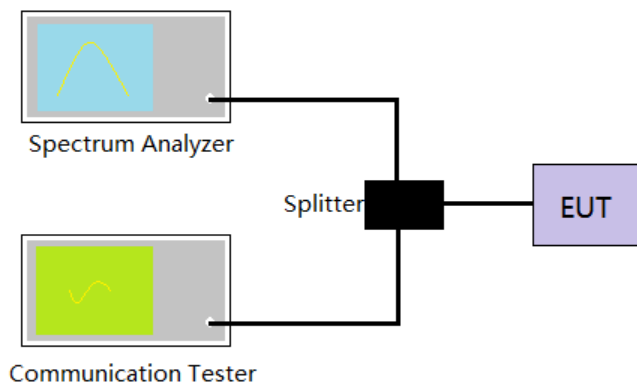
Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

LTE Band 7

Part 27.53 m(4) 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.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
2. Set EUT in maximum power output.
3. The band edges of low and high channels were measured.
4. Spectrum analyzer setting as follow:
RBW= no less than 1% of the OBW, VBW =3 * RBW, Sweep time= Auto
5. Record the test plot.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Refer to appendix D on the section 8 appendix report A, B, C

5.5. Conducted Spurious Emissions

LIMIT

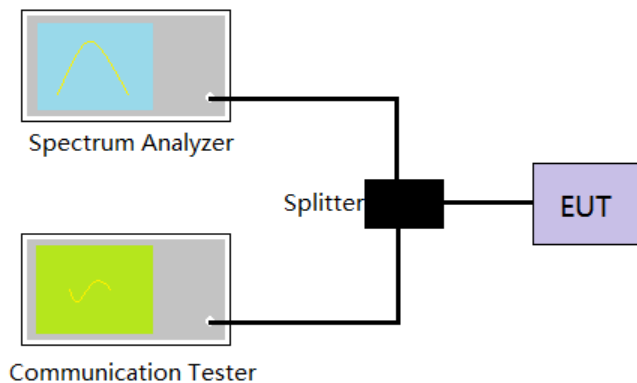
Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

LTE Band 7

Part 27.53 m(4) 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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Limit < -25 dBm

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
2. Set EUT in maximum power output.
3. Spectrum analyzer setting as follow:
Below 1GHz, RBW=100KHz, VBW = 300KHz, Detector=Peak, Sweep time= Auto
Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peak, Sweep time= Auto
Scan frequency range up to 10th harmonic.
4. Record the test plot.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

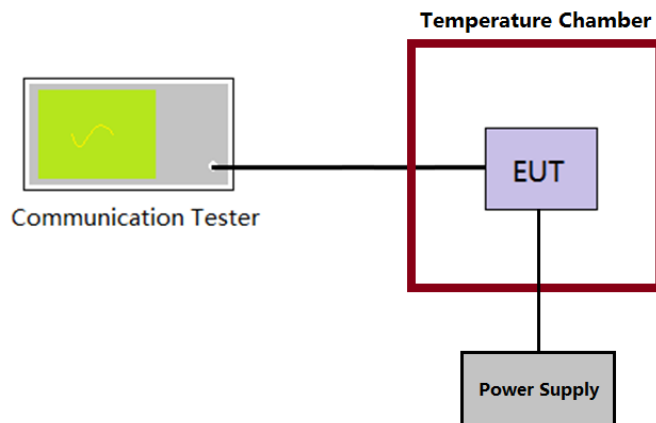
Refer to appendix E on the section 8 appendix report A, B, C

5.6. Frequency stability VS Temperature measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

1. The equipment under test was connected to an external DC power supply and input rated voltage.
2. The EUT output port was connected to communication tester.
3. The EUT was placed inside the temperature chamber.
4. Turn EUT off and set the chamber temperature to -30°C . After the temperature stabilized for approximately 30 minutes recorded the frequency.
5. Repeat step 4 measure with 10°C increased per stage until the highest temperature of $+50^{\circ}\text{C}$ reached.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

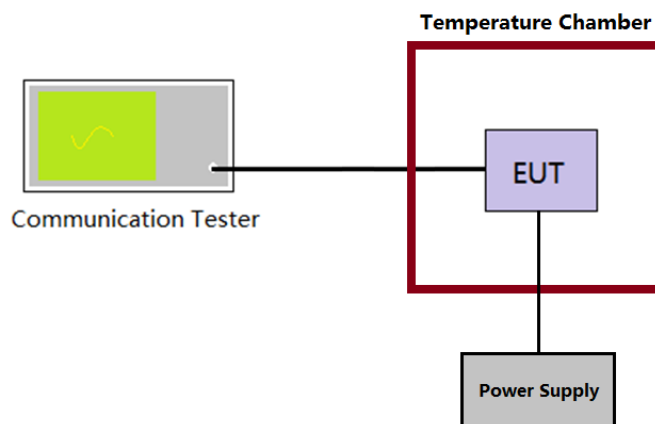
Refer to appendix F on the section 8 appendix report A, B, C

5.7. Frequency stability VS Voltage measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

1. The equipment under test was connected to an external DC power supply and input rated voltage.
2. The EUT output port was connected to communication tester.
3. The EUT was placed inside the temperature chamber at 25°C
4. The power supply voltage to the EUT was varied $\pm 15\%$ of the nominal value measured at the input to the EUT
5. Record the maximum frequency change.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

Refer to appendix F on the section 8 appendix report A, B, C

5.8. ERP and EIRP

LIMIT

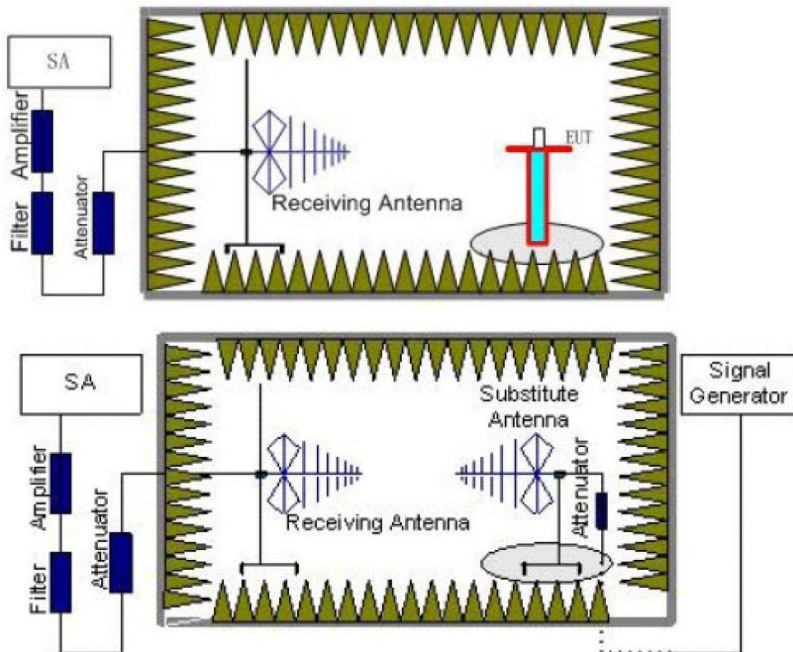
LTE Band 2/7/25/38/41: 2W(33dBm) EIRP

LTE Band 4: 1W(30dBm) EIRP

LTE Band 5/26: 7W(38.50dBm) ERP

LTE Band 12/17/71: 3W(34.77dBm) ERP

TEST CONFIGURATION



TEST PROCEDURE

1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
4. Receiver or Spectrum set as follow:

Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto

Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.

- d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
- e) Record the measured emission amplitude level and frequency
6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:
$$P_e = P_s(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$
where
 P_e = equivalent emission power in dBm
 P_s = source (signal generator) power in dBm
NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.
13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:
$$\text{gain (dBd)} = \text{gain (dBi)} - 2.15 \text{ dB}.$$
If necessary, the antenna gain can be calculated from calibrated antenna factor information
14. Provide the complete measurement results as a part of the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Refer to appendix G on the section 8 appendix report A, B, C

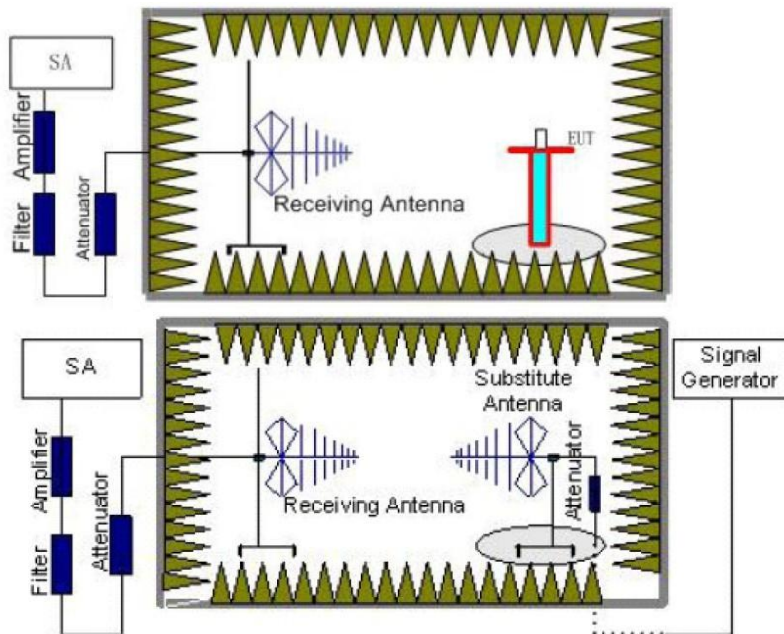
5.9. Radiated Spurious Emission

LIMIT

LTE Band 2/4/5/12/17/25/26/71: -13dBm;

LTE Band 7/38/41: -25dBm

TEST CONFIGURATION



TEST PROCEDURE

1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
4. Receiver or Spectrum set as follow:

Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto

Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency

6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:
$$P_e = P_s(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$
where
$$P_e = \text{equivalent emission power in dBm}$$
$$P_s = \text{source (signal generator) power in dBm}$$
NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.
13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:
$$\text{gain (dBd)} = \text{gain (dBi)} - 2.15 \text{ dB.}$$
If necessary, the antenna gain can be calculated from calibrated antenna factor information
14. Provide the complete measurement results as a part of the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

Note: only show the worse case for QPSK modulation.

LTE Band 2 Low					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	44.64	-50.98	25.69	6.99	30.92	-49.22	-13.00	-36.22	Peak
2	174.07	-61.56	21.13	8.02	30.57	-62.98	-13.00	-49.98	Peak
3	1330.61	-67.28	37.02	12.01	29.49	-47.74	-13.00	-34.74	Peak
4	1778.33	-58.64	36.64	13.03	29.56	-38.53	-13.00	-25.53	Peak
5	3700.48	-53.70	42.29	7.01	37.16	-41.56	-13.00	-28.56	Peak
6	10109.65	-73.99	50.69	12.39	31.57	-42.48	-13.00	-29.48	Peak

LTE Band 2 Low					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	52.47	-42.52	22.52	7.07	31.04	-43.97	-13.00	-30.97	Peak
2	244.83	-68.02	20.55	8.42	30.56	-69.61	-13.00	-56.61	Peak
3	1330.61	-63.49	37.46	12.01	29.49	-43.51	-13.00	-30.51	Peak
4	1774.42	-65.74	36.41	13.02	29.55	-45.86	-13.00	-32.86	Peak
5	3700.48	-53.68	42.31	7.01	37.16	-41.52	-13.00	-28.52	Peak
6	8782.97	-74.95	49.39	11.95	30.48	-44.09	-13.00	-31.09	Peak

LTE Band 2 Mid					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	1330.61	-68.07	37.02	12.01	29.49	-48.53	-13.00	-35.53	Peak
2	1786.16	-55.06	36.67	13.05	29.58	-34.92	-13.00	-21.92	Peak
3	3738.23	-51.80	42.25	7.05	37.06	-39.56	-13.00	-26.56	Peak
4	10885.73	-73.81	52.64	12.52	32.38	-41.03	-13.00	-28.03	Peak

LTE Band 2 Mid					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	46.72	-48.46	21.78	7.01	30.95	-50.62	-13.00	-37.62	Peak
2	248.30	-61.55	20.71	8.44	30.57	-62.97	-13.00	-49.97	Peak
3	1330.61	-59.97	37.46	12.01	29.49	-39.99	-13.00	-26.99	Peak
4	1786.16	-54.33	36.44	13.05	29.58	-34.42	-13.00	-21.42	Peak
5	3738.23	-52.83	42.20	7.05	37.06	-40.64	-13.00	-27.64	Peak
6	8706.88	-75.40	48.71	11.98	29.97	-44.68	-13.00	-31.68	Peak

LTE Band 2 High					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	43.71	-53.44	26.09	6.97	30.90	-51.28	-13.00	-38.28	Peak
2	172.24	-59.91	21.19	8.01	30.58	-61.29	-13.00	-48.29	Peak
3	1327.69	-65.87	37.01	12.01	29.51	-46.36	-13.00	-33.36	Peak
4	1856.18	-59.87	37.42	13.22	29.42	-38.65	-13.00	-25.65	Peak
5	3781.86	-51.28	42.21	7.10	36.91	-38.88	-13.00	-25.88	Peak
6	10183.22	-74.68	50.88	12.41	31.72	-43.11	-13.00	-30.11	Peak

LTE Band 2 High					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	32.99	-41.18	18.92	6.85	30.92	-46.33	-13.00	-33.33	Peak
2	250.93	-63.68	20.84	8.45	30.57	-64.96	-13.00	-51.96	Peak
3	1332.08	-64.20	37.46	12.02	29.48	-44.20	-13.00	-31.20	Peak
4	1856.18	-62.99	37.01	13.22	29.42	-42.18	-13.00	-29.18	Peak
5	3781.86	-51.80	42.07	7.10	36.91	-39.54	-13.00	-26.54	Peak
6	5997.83	-64.27	44.74	9.58	33.82	-43.77	-13.00	-30.77	Peak

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 4 Low					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	36.92	-63.70	27.32	6.89	30.87	-60.36	-13.00	-47.36	Peak
2	172.24	-62.34	21.19	8.01	30.58	-63.72	-13.00	-50.72	Peak
3	1332.08	-63.25	37.02	12.02	29.48	-43.69	-13.00	-30.69	Peak
4	1694.41	-61.52	36.33	12.86	29.31	-41.64	-13.00	-28.64	Peak
5	3421.73	-60.71	39.89	6.72	37.15	-51.25	-13.00	-38.25	Peak
6	6843.99	-66.86	46.94	10.07	34.32	-44.17	-13.00	-31.17	Peak

LTE Band 4 Low					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	44.64	-62.01	21.58	6.99	30.92	-64.36	-13.00	-51.36	Peak
2	255.38	-66.38	21.05	8.47	30.56	-67.42	-13.00	-54.42	Peak
3	1332.08	-61.17	37.46	12.02	29.48	-41.17	-13.00	-28.17	Peak
4	2208.03	-69.14	41.63	14.05	29.46	-42.92	-13.00	-29.92	Peak
5	3421.73	-64.97	39.91	6.72	37.15	-55.49	-13.00	-42.49	Peak
6	7981.27	-72.94	47.70	10.89	32.80	-47.15	-13.00	-34.15	Peak

LTE Band 4 Mid					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	51.56	-58.47	23.70	7.06	31.03	-58.74	-13.00	-45.74	Peak
2	172.24	-59.82	21.19	8.01	30.58	-61.20	-13.00	-48.20	Peak
3	1327.69	-66.06	37.01	12.01	29.51	-46.55	-13.00	-33.55	Peak
4	1690.69	-58.73	36.32	12.85	29.33	-38.89	-13.00	-25.89	Peak
5	3446.64	-56.33	40.25	6.74	37.11	-46.45	-13.00	-33.45	Peak
6	6893.80	-66.28	47.17	10.20	34.15	-43.06	-13.00	-30.06	Peak

LTE Band 4 Mid					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	45.75	-63.88	21.68	7.00	30.93	-66.13	-13.00	-53.13	Peak
2	259.00	-63.43	21.21	8.50	30.56	-64.28	-13.00	-51.28	Peak
3	1330.61	-62.46	37.46	12.01	29.49	-42.48	-13.00	-29.48	Peak
4	1690.69	-62.86	36.21	12.85	29.33	-43.13	-13.00	-30.13	Peak
5	3446.64	-61.75	40.30	6.74	37.11	-51.82	-13.00	-38.82	Peak
6	6893.80	-70.78	47.38	10.20	34.15	-47.35	-13.00	-34.35	Peak

LTE Band 4 High					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	43.71	-72.23	26.09	6.97	30.90	-70.07	-13.00	-57.07	Peak
2	172.85	-63.62	21.17	8.02	30.57	-65.00	-13.00	-52.00	Peak
3	1332.08	-65.27	37.02	12.02	29.48	-45.71	-13.00	-32.71	Peak
4	1701.87	-52.60	36.36	12.88	29.26	-32.62	-13.00	-19.62	Peak
5	3471.72	-53.24	40.61	6.76	37.08	-42.95	-13.00	-29.95	Peak
6	6943.97	-68.83	47.40	10.23	33.75	-44.95	-13.00	-31.95	Peak

LTE Band 4 High					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	44.64	-62.26	21.58	6.99	30.92	-64.61	-13.00	-51.61	Peak
2	248.30	-62.69	20.71	8.44	30.57	-64.11	-13.00	-51.11	Peak
3	1332.08	-61.15	37.46	12.02	29.48	-41.15	-13.00	-28.15	Peak
4	1701.87	-56.89	36.24	12.88	29.26	-37.03	-13.00	-24.03	Peak
5	3471.72	-61.75	40.68	6.76	37.08	-51.39	-13.00	-38.39	Peak
6	3996.12	-63.97	41.54	7.38	36.48	-51.53	-13.00	-38.53	Peak

Remark:

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2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 5 Low					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	41.75	-72.40	26.96	6.95	30.87	-69.36	-13.00	-56.36	Peak
2	246.56	-64.21	22.83	8.43	30.57	-63.52	-13.00	-50.52	Peak
3	1330.61	-67.07	37.02	12.01	29.49	-47.53	-13.00	-34.53	Peak
4	2361.07	-68.81	40.04	14.59	28.85	-43.03	-13.00	-30.03	Peak
5	5482.06	-72.43	43.93	9.34	32.46	-51.62	-13.00	-38.62	Peak
6	9226.91	-74.43	49.34	11.56	31.10	-44.63	-13.00	-31.63	Peak

LTE Band 5 Low					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	45.75	-63.58	21.68	7.00	30.93	-65.83	-13.00	-52.83	Peak
2	254.48	-65.23	21.01	8.47	30.56	-66.31	-13.00	-53.31	Peak
3	1778.33	-64.11	36.42	13.03	29.56	-44.22	-13.00	-31.22	Peak
4	1995.76	-64.32	38.27	13.52	29.55	-42.08	-13.00	-29.08	Peak
5	3996.12	-66.79	41.54	7.38	36.48	-54.35	-13.00	-41.35	Peak
6	8744.84	-75.54	49.05	11.96	30.22	-44.75	-13.00	-31.75	Peak

LTE Band 5 Mid					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	40.74	-71.94	27.43	6.94	30.85	-68.42	-13.00	-55.42	Peak
2	174.07	-62.49	21.13	8.02	30.57	-63.91	-13.00	-50.91	Peak
3	1327.69	-67.14	37.01	12.01	29.51	-47.63	-13.00	-34.63	Peak
4	1901.59	-66.03	37.97	13.31	29.66	-44.41	-13.00	-31.41	Peak
5	5750.80	-71.33	43.93	9.57	33.41	-51.24	-13.00	-38.24	Peak
6	10168.46	-74.27	50.84	12.40	31.69	-42.72	-13.00	-29.72	Peak

LTE Band 5 Mid					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	45.75	-63.61	21.68	7.00	30.93	-65.86	-13.00	-52.86	Peak
2	252.70	-63.09	20.92	8.46	30.57	-64.28	-13.00	-51.28	Peak
3	1330.61	-61.14	37.46	12.01	29.49	-41.16	-13.00	-28.16	Peak
4	1997.96	-65.95	38.29	13.52	29.55	-43.69	-13.00	-30.69	Peak
5	3990.33	-67.08	41.55	7.38	36.51	-54.66	-13.00	-41.66	Peak
6	8757.54	-76.12	49.16	11.96	30.31	-45.31	-13.00	-32.31	Peak

LTE Band 5 High					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	51.56	-54.62	23.70	7.06	31.03	-54.89	-13.00	-41.89	Peak
2	242.26	-64.13	22.76	8.41	30.56	-63.52	-13.00	-50.52	Peak
3	1332.54	-68.51	37.02	12.02	29.48	-48.95	-13.00	-35.95	Peak
4	1891.17	-67.63	37.84	13.29	29.57	-46.07	-13.00	-33.07	Peak
5	5989.13	-68.06	44.52	9.58	33.78	-47.74	-13.00	-34.74	Peak
6	10109.65	-74.99	50.69	12.39	31.57	-43.48	-13.00	-30.48	Peak

LTE Band 5 High					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	45.75	-69.41	21.68	7.00	30.93	-71.66	-13.00	-58.66	Peak
2	256.28	-64.37	21.09	8.48	30.56	-65.36	-13.00	-52.36	Peak
3	1332.08	-60.89	37.46	12.02	29.48	-40.89	-13.00	-27.89	Peak
4	1899.50	-68.50	37.41	13.31	29.66	-47.44	-13.00	-34.44	Peak
5	5442.45	-72.41	44.06	9.36	32.88	-51.87	-13.00	-38.87	Peak
6	9240.30	-75.21	49.75	11.61	31.12	-44.97	-13.00	-31.97	Peak

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 7 Low					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	53.59	-63.44	23.91	7.08	31.06	-63.51	-13.00	-50.51	Peak
2	240.56	-64.75	22.73	8.40	30.55	-64.17	-13.00	-51.17	Peak
3	3690.85	-68.70	42.30	7.00	37.15	-56.55	-13.00	-43.55	Peak
4	5009.43	-61.15	44.34	8.83	34.83	-42.81	-13.00	-29.81	Peak
5	7154.17	-73.42	47.81	10.02	33.20	-48.79	-13.00	-35.79	Peak
6	11112.52	-75.72	52.93	12.58	32.31	-42.52	-13.00	-29.52	Peak

LTE Band 7 Low					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	46.72	-66.11	21.78	7.01	30.95	-68.27	-13.00	-55.27	Peak
2	257.18	-64.23	21.13	8.48	30.56	-65.18	-13.00	-52.18	Peak
3	3096.33	-67.93	41.25	6.30	37.38	-57.76	-13.00	-44.76	Peak
4	5009.43	-59.94	44.48	8.83	34.83	-41.46	-13.00	-28.46	Peak
5	5986.51	-67.97	44.71	9.58	33.77	-47.45	-13.00	-34.45	Peak
6	10860.83	-74.80	52.66	12.51	32.46	-42.09	-13.00	-29.09	Peak

LTE Band 7 Mid					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	40.74	-72.25	27.43	6.94	30.85	-68.73	-13.00	-55.73	Peak
2	248.30	-64.99	22.86	8.44	30.57	-64.26	-13.00	-51.26	Peak
3	3766.79	-68.47	42.22	7.09	36.97	-56.13	-13.00	-43.13	Peak
4	5060.69	-65.06	44.23	8.89	34.88	-46.82	-13.00	-33.82	Peak
5	6561.03	-69.85	46.41	9.77	34.11	-47.78	-13.00	-34.78	Peak
6	10888.51	-74.63	52.64	12.52	32.37	-41.84	-13.00	-28.84	Peak

LTE Band 7 Mid					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	46.72	-65.27	21.78	7.01	30.95	-67.43	-13.00	-54.43	Peak
2	250.93	-62.67	20.84	8.45	30.57	-63.95	-13.00	-50.95	Peak
3	3333.55	-64.93	40.19	6.61	37.28	-55.41	-13.00	-42.41	Peak
4	5060.69	-66.37	44.33	8.89	34.88	-48.03	-13.00	-35.03	Peak
5	6561.03	-71.46	46.85	9.77	34.11	-48.95	-13.00	-35.95	Peak
6	10860.83	-74.96	52.66	12.51	32.46	-42.25	-13.00	-29.25	Peak

LTE Band 7 High					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	172.24	-66.70	21.19	8.01	30.58	-68.08	-13.00	-55.08	Peak
2	242.26	-66.85	22.76	8.41	30.56	-66.24	-13.00	-53.24	Peak
3	4256.33	-69.71	42.47	7.72	35.83	-55.35	-13.00	-42.35	Peak
4	5112.49	-66.41	44.13	8.95	34.78	-48.11	-13.00	-35.11	Peak
5	6577.75	-72.46	46.44	9.78	34.08	-50.32	-13.00	-37.32	Peak
6	10971.98	-75.77	52.84	12.53	32.10	-42.50	-13.00	-29.50	Peak

LTE Band 7 High					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	45.75	-65.49	21.68	7.00	30.93	-67.74	-13.00	-54.74	Peak
2	251.81	-62.37	20.88	8.46	30.57	-63.60	-13.00	-50.60	Peak
3	3316.62	-65.57	40.35	6.59	37.16	-55.79	-13.00	-42.79	Peak
4	5112.49	-63.98	44.18	8.95	34.78	-45.63	-13.00	-32.63	Peak
5	6903.71	-73.06	47.38	10.23	34.07	-49.52	-13.00	-36.52	Peak
6	10113.67	-73.43	50.92	12.39	31.57	-41.69	-13.00	-28.69	Peak

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 12 Low					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	41.75	-93.24	26.96	6.95	0.00	-59.33	-13.00	-46.33	Peak
2	467.59	-93.14	25.59	9.45	0.00	-58.10	-13.00	-45.10	Peak
3	1329.89	-57.50	37.02	4.07	36.37	-52.78	-13.00	-39.78	Peak
4	1399.35	-53.01	37.16	4.17	36.57	-48.25	-13.00	-35.25	Peak
5	1998.48	-63.94	39.09	5.01	37.22	-57.06	-13.00	-44.06	Peak
6	2328.25	-66.66	40.22	5.45	37.39	-58.38	-13.00	-45.38	Peak

LTE Band 12 Low					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	48.57	-90.45	21.94	7.03	0.00	-61.48	-13.00	-48.48	Peak
2	94.74	-93.58	25.82	7.47	0.00	-60.29	-13.00	-47.29	Peak
3	1329.89	-52.41	37.45	4.07	36.37	-47.26	-13.00	-34.26	Peak
4	1399.35	-57.65	37.76	4.17	36.57	-52.29	-13.00	-39.29	Peak
5	2328.25	-61.96	40.16	5.45	37.39	-53.74	-13.00	-40.74	Peak
6	2664.54	-59.45	39.66	5.87	37.30	-51.22	-13.00	-38.22	Peak

LTE Band 12 Mid					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	49.60	-88.42	23.68	7.04	0.00	-57.70	-13.00	-44.70	Peak
2	453.02	-93.16	25.92	9.38	0.00	-57.86	-13.00	-44.86	Peak
3	1406.50	-54.13	37.12	4.18	36.61	-49.44	-13.00	-36.44	Peak
4	2108.21	-64.28	40.14	5.17	37.46	-56.43	-13.00	-43.43	Peak
5	2500.25	-64.48	39.27	5.66	37.28	-56.83	-13.00	-43.83	Peak
6	5791.65	-71.35	43.99	9.59	33.24	-51.01	-13.00	-38.01	Peak

LTE Band 12 Mid					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	48.57	-90.45	21.94	7.03	0.00	-61.48	-13.00	-48.48	Peak
2	94.74	-93.58	25.82	7.47	0.00	-60.29	-13.00	-47.29	Peak
3	1329.89	-52.02	37.45	4.07	36.37	-46.87	-13.00	-33.87	Peak
4	1406.50	-53.91	37.76	4.18	36.61	-48.58	-13.00	-35.58	Peak
5	2108.21	-61.16	40.20	5.17	37.46	-53.25	-13.00	-40.25	Peak
6	2657.76	-59.54	39.60	5.87	37.22	-51.29	-13.00	-38.29	Peak

LTE Band 12 High					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	40.74	-93.94	27.43	6.94	0.00	-59.57	-13.00	-46.57	Peak
2	423.74	-92.80	25.99	9.26	0.00	-57.55	-13.00	-44.55	Peak
3	1329.89	-58.64	37.02	4.07	36.37	-53.92	-13.00	-40.92	Peak
4	1410.08	-51.80	37.10	4.19	36.63	-47.14	-13.00	-34.14	Peak
5	2118.97	-60.90	40.24	5.18	37.42	-52.90	-13.00	-39.90	Peak
6	5971.29	-71.13	44.47	9.58	33.69	-50.77	-13.00	-37.77	Peak

LTE Band 12 High					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	65.26	-87.84	21.36	7.20	0.00	-59.28	-13.00	-46.28	Peak
2	501.66	-93.13	26.22	9.56	0.00	-57.35	-13.00	-44.35	Peak
3	1413.67	-55.25	37.76	4.19	36.65	-49.95	-13.00	-36.95	Peak
4	2118.97	-59.49	40.38	5.18	37.42	-51.35	-13.00	-38.35	Peak
5	5971.29	-66.28	44.66	9.58	33.69	-45.73	-13.00	-32.73	Peak
6	9985.76	-70.59	50.49	12.30	31.67	-39.47	-13.00	-26.47	Peak

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 17 Low					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	37.84	-95.12	27.46	6.90	0.00	-60.76	-13.00	-47.76	Peak
2	637.17	-94.01	28.93	10.04	0.00	-55.04	-13.00	-42.04	Peak
3	1406.50	-55.62	37.12	4.18	36.61	-50.93	-13.00	-37.93	Peak
4	2113.59	-61.33	40.19	5.17	37.44	-53.41	-13.00	-40.41	Peak
5	2500.25	-63.63	39.27	5.66	37.28	-55.98	-13.00	-42.98	Peak
6	4996.69	-71.18	44.35	8.81	34.81	-52.83	-13.00	-39.83	Peak

LTE Band 17 Low					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	92.76	-94.47	25.85	7.45	0.00	-61.17	-13.00	-48.17	Peak
2	479.24	-93.19	25.71	9.49	0.00	-57.99	-13.00	-44.99	Peak
3	1410.08	-55.91	37.76	4.19	36.63	-50.59	-13.00	-37.59	Peak
4	2113.59	-61.13	40.29	5.17	37.44	-53.11	-13.00	-40.11	Peak
5	2664.54	-62.46	39.66	5.87	37.30	-54.23	-13.00	-41.23	Peak
6	4996.69	-69.36	44.50	8.81	34.81	-50.86	-13.00	-37.86	Peak

LTE Band 17 Mid					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	40.03	-94.07	27.77	6.93	0.00	-59.37	-13.00	-46.37	Peak
2	445.13	-93.45	25.99	9.35	0.00	-58.11	-13.00	-45.11	Peak
3	1326.51	-55.15	37.01	4.07	36.42	-50.49	-13.00	-37.49	Peak
4	1998.48	-55.58	39.09	5.01	37.22	-48.70	-13.00	-35.70	Peak
5	2500.25	-63.28	39.27	5.66	37.28	-55.63	-13.00	-42.63	Peak
6	10011.21	-74.18	50.43	12.37	31.35	-42.73	-13.00	-29.73	Peak

LTE Band 17 Mid					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	100.57	-94.27	25.67	7.52	0.00	-61.08	-13.00	-48.08	Peak
2	569.36	-93.37	26.17	9.82	0.00	-57.38	-13.00	-44.38	Peak
3	1329.89	-52.58	37.45	4.07	36.37	-47.43	-13.00	-34.43	Peak
4	2113.59	-60.84	40.29	5.17	37.44	-52.82	-13.00	-39.82	Peak
5	2500.25	-61.44	39.23	5.66	37.28	-53.83	-13.00	-40.83	Peak
6	10833.22	-74.56	52.64	12.51	32.55	-41.96	-13.00	-28.96	Peak

LTE Band 17 High					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	56.50	-85.22	24.19	7.11	0.00	-53.92	-13.00	-40.92	Peak
2	573.38	-93.94	26.59	9.84	0.00	-57.51	-13.00	-44.51	Peak
3	1413.67	-52.12	37.07	4.19	36.65	-47.51	-13.00	-34.51	Peak
4	2118.97	-63.00	40.24	5.18	37.42	-55.00	-13.00	-42.00	Peak
5	5986.51	-62.39	44.51	9.58	33.77	-42.07	-13.00	-29.07	Peak
6	10723.47	-73.67	52.24	12.50	33.28	-42.21	-13.00	-29.21	Peak

LTE Band 17 High					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamplifier dB	Level dBm	Limit dBm	Over limit	Remark
1	92.76	-93.32	25.85	7.45	0.00	-60.02	-13.00	-47.02	Peak
2	479.24	-93.36	25.71	9.49	0.00	-58.16	-13.00	-45.16	Peak
3	1326.51	-51.84	37.44	4.07	36.42	-46.75	-13.00	-33.75	Peak
4	2118.97	-57.06	40.38	5.18	37.42	-48.92	-13.00	-35.92	Peak
5	2761.20	-63.49	40.39	5.96	37.47	-54.61	-13.00	-41.61	Peak
6	8703.29	-75.51	48.68	11.98	29.94	-44.79	-13.00	-31.79	Peak

Remark:

1. Remark"---" means that the emission level is too low to be measured
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LTE Band 25 Low					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	40.03	-75.60	27.77	6.93	30.84	-71.74	-13.00	-58.74	Peak
2	172.24	-64.74	21.19	8.01	30.58	-66.12	-13.00	-53.12	Peak
3	1330.61	-64.75	37.02	12.01	29.49	-45.21	-13.00	-32.21	Peak
4	1991.38	-68.12	39.01	13.51	29.55	-45.15	-13.00	-32.15	Peak
5	3700.48	-53.82	42.29	7.01	37.16	-41.68	-13.00	-28.68	Peak
6	10996.81	-75.84	52.90	12.53	32.02	-42.43	-13.00	-29.43	Peak

LTE Band 25 Low					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	45.75	-62.93	21.68	7.00	30.93	-65.18	-13.00	-52.18	Peak
2	251.81	-59.19	20.88	8.46	30.57	-60.42	-13.00	-47.42	Peak
3	1333.54	-59.16	37.47	12.02	29.48	-39.15	-13.00	-26.15	Peak
4	2205.60	-69.32	41.66	14.05	29.45	-43.06	-13.00	-30.06	Peak
5	3700.48	-54.06	42.31	7.01	37.16	-41.90	-13.00	-28.90	Peak
6	10838.48	-74.69	52.64	12.51	32.53	-42.07	-13.00	-29.07	Peak

LTE Band 25 Mid					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	71.25	-60.60	16.74	7.25	30.94	-67.55	-13.00	-54.55	Peak
2	240.56	-64.06	22.73	8.40	30.55	-63.48	-13.00	-50.48	Peak
3	1330.61	-65.78	37.02	12.01	29.49	-46.24	-13.00	-33.24	Peak
4	1839.93	-60.26	37.22	13.18	29.49	-39.35	-13.00	-26.35	Peak

LTE Band 25 Mid					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	45.75	-63.46	21.68	7.00	30.93	-65.71	-13.00	-52.71	Peak
2	249.17	-64.46	20.76	8.44	30.57	-65.83	-13.00	-52.83	Peak
3	1330.61	-58.54	37.46	12.01	29.49	-38.56	-13.00	-25.56	Peak
4	1839.93	-63.03	36.85	13.18	29.49	-42.49	-13.00	-29.49	Peak
5	3743.66	-55.12	42.19	7.06	37.04	-42.91	-13.00	-29.91	Peak
6	10869.96	-73.89	52.67	12.51	32.43	-41.14	-13.00	-28.14	Peak

LTE Band 25 High					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	40.74	-74.52	27.43	6.94	30.85	-71.00	-13.00	-58.00	Peak
2	175.92	-63.07	21.07	8.04	30.56	-64.52	-13.00	-51.52	Peak
3	1327.69	-65.05	37.01	12.01	29.51	-45.54	-13.00	-32.54	Peak
4	2918.73	-72.56	40.92	16.54	25.14	-40.24	-13.00	-27.24	Peak
5	3792.84	-53.09	42.20	7.12	36.84	-40.61	-13.00	-27.61	Peak
6	10109.65	-74.65	50.69	12.39	31.57	-43.14	-13.00	-30.14	Peak

LTE Band 25 High					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	45.75	-62.70	21.68	7.00	30.93	-64.95	-13.00	-51.95	Peak
2	251.81	-60.67	20.88	8.46	30.57	-61.90	-13.00	-48.90	Peak
3	1333.54	-63.54	37.47	12.02	29.48	-43.53	-13.00	-30.53	Peak
4	2179.11	-69.38	41.39	13.98	29.39	-43.40	-13.00	-30.40	Peak
5	3792.84	-52.75	42.04	7.12	36.84	-40.43	-13.00	-27.43	Peak
6	11320.44	-74.20	53.06	12.66	32.79	-41.27	-13.00	-28.27	Peak

Remark:

1. Remark"---" means that the emission level is too low to be measured
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LTE Band 41 Low					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	32.99	-68.91	26.67	6.85	30.92	-66.31	-13.00	-53.31	Peak
2	238.87	-66.22	22.54	8.39	30.55	-65.84	-13.00	-52.84	Peak
3	3625.67	-68.62	42.36	6.94	37.02	-56.34	-13.00	-43.34	Peak
4	5009.43	-63.10	44.34	8.83	34.83	-44.76	-13.00	-31.76	Peak
5	8063.40	-74.26	47.90	11.08	33.07	-48.35	-13.00	-35.35	Peak
6	11027.98	-74.68	52.91	12.54	32.09	-41.32	-13.00	-28.32	Peak

LTE Band 41 Low					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	46.72	-65.93	21.78	7.01	30.95	-68.09	-13.00	-55.09	Peak
2	255.38	-62.42	21.05	8.47	30.56	-63.46	-13.00	-50.46	Peak
3	3233.26	-66.44	41.15	6.50	36.98	-55.77	-13.00	-42.77	Peak
4	5009.43	-64.68	44.48	8.83	34.83	-46.20	-13.00	-33.20	Peak
5	6001.77	-66.62	44.76	9.58	33.84	-46.12	-13.00	-33.12	Peak
6	7981.72	-70.59	47.70	10.89	32.80	-44.80	-13.00	-31.80	Peak

LTE Band 41 Mid					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	55.51	-65.02	24.10	7.10	31.07	-64.89	-13.00	-51.89	Peak
2	179.04	-63.78	20.97	8.05	30.55	-65.31	-13.00	-52.31	Peak
3	4004.08	-66.11	41.25	7.38	36.48	-53.96	-13.00	-40.96	Peak
4	5164.81	-65.89	44.02	8.96	34.67	-47.58	-13.00	-34.58	Peak
5	7451.57	-74.17	48.31	10.36	33.88	-49.38	-13.00	-36.38	Peak
6	10888.51	-74.73	52.64	12.52	32.37	-41.94	-13.00	-28.94	Peak

LTE Band 41 Mid					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	44.64	-67.53	21.58	6.99	30.92	-69.88	-13.00	-56.88	Peak
2	253.59	-62.53	20.96	8.46	30.56	-63.67	-13.00	-50.67	Peak
3	4004.08	-67.00	41.55	7.38	36.48	-54.55	-13.00	-41.55	Peak
4	5164.81	-66.69	44.02	8.96	34.67	-48.38	-13.00	-35.38	Peak
5	5986.51	-65.98	44.71	9.58	33.77	-45.46	-13.00	-32.46	Peak
6	11370.05	-74.42	53.10	12.68	32.89	-41.53	-13.00	-28.53	Peak

LTE Band 41 High					Polarization: Horizontal				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	39.89	-74.86	27.76	6.93	30.84	-71.01	-13.00	-58.01	Peak
2	184.79	-64.67	21.44	8.09	30.53	-65.67	-13.00	-52.67	Peak
3	3598.09	-68.80	42.36	6.91	37.01	-56.54	-13.00	-43.54	Peak
4	5338.58	-66.45	44.04	9.46	34.02	-46.97	-13.00	-33.97	Peak
5	6577.75	-70.87	46.44	9.78	34.08	-48.73	-13.00	-35.73	Peak
6	11399.03	-75.06	52.97	12.69	32.95	-42.35	-13.00	-29.35	Peak

LTE Band 41 High					Polarization: Vertical				
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	46.72	-65.67	21.78	7.01	30.95	-67.83	-13.00	-54.83	Peak
2	248.30	-60.06	20.71	8.44	30.57	-61.48	-13.00	-48.48	Peak
3	3983.75	-66.65	41.57	7.38	36.53	-54.23	-13.00	-41.23	Peak
4	5338.58	-70.29	44.05	9.46	34.02	-50.80	-13.00	-37.80	Peak
5	8814.77	-75.11	49.47	11.94	30.70	-44.40	-13.00	-31.40	Peak
6	10087.96	-75.18	50.83	12.39	31.52	-43.48	-13.00	-30.48	Peak

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.