

Industrial Internet Innovation Center (Shanghai) Co.,Ltd.

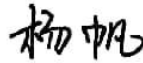
RF TEST REPORT

PRODUCT	Smart POS system
BRAND	SUNMI
MODEL	T6F10
APPLICANT	Shanghai Sunmi Technology Co.,Ltd.
FCC ID	2AH25T6F10
ISSUE DATE	February 5, 2024
STANDARD(S)	FCC Part 2, FCC Part 22H, FCC Part 24E, FCC Part 27

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1. Summary of Test Report

1.1 Test Standard (s)

No.	Test Standard	Title	Version
1	FCC Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS	-
2	FCC Part 22H	CELLULAR RADIOTELEPHONE SERVICE	-
3	FCC Part 24E	BROADBAND PCS	-
4	FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	-

Note: FCC Part 2 have not been accredited by A2LA.

1.2 Reference Documents

No.	Test Standard	Title	Version
1	ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2016
2	ANSI C63.26	American National Standard of Procedures for Compliance Testing of Licensed Transmitters Used in Licensed Radio	2015
3	KDB 971168 D01	Measurement Guidance for Certification of Licensed Digital Transmitters	v03r01

Note: KDB 971168 D01 have not been accredited by A2LA.

1.3 Summary of Test Results

LTE Band 2

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	2.1046/24.232(c)	Pass
2	Emission Limit	2.1053/24.238(a)	Pass
3	Frequency Stability	2.1055/24.235	Pass
4	Occupied Bandwidth	2.1049	Pass
5	Emission Bandwidth	2.1049	Pass
6	Band Edge Compliance	2.1051/24.238(a)	Pass
7	Conducted Spurious Emission	2.1051/24.238(a)	Pass
8	Peak to Average Power Ratio	24.232 (d)	Pass

LTE Band 4

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	2.1046/27.50(d)(4)	Pass
2	Emission Limit	2.1053/27.53(h)	Pass
3	Frequency Stability	2.1055/27.54	Pass
4	Occupied Bandwidth	2.1049	Pass
5	Emission Bandwidth	2.1049	Pass
6	Band Edge Compliance	2.1051/27.53(h)	Pass
7	Conducted Spurious Emission	2.1051/27.53(h)	Pass
8	Peak to Average Power Ratio	27.50(d)(5)	Pass

LTE Band 5

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	2.1046/22.913(a)	Pass
2	Emission Limit	2.1053/22.917(a)	Pass
3	Frequency Stability	2.1055/22.355	Pass
4	Occupied Bandwidth	2.1049	Pass
5	Emission Bandwidth	2.1049	Pass
6	Band Edge Compliance	2.1051/22.917(a)	Pass
7	Conducted Spurious Emission	2.1051/22.917(a)	Pass
8	Peak to Average Power Ratio	N/A	Pass

LTE Band 7

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	2.1046/27.50(h)	Pass
2	Emission Limit	2.1053/27.53(m)	Pass
3	Frequency Stability	2.1055/27.54	Pass
4	Occupied Bandwidth	2.1049	Pass
5	Emission Bandwidth	2.1049	Pass
6	Band Edge Compliance	2.1051/27.53(m)	Pass
7	Conducted Spurious Emission	2.1051/27.53(m)	Pass

LTE Band 26(Part 22) 824-849MHz

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power/ERP	2.1046/22.913(a)	Pass
2	Emission Limit	2.1053/22.917(a)	Pass
3	Frequency Stability	2.1055/22.355	Pass
4	Occupied Bandwidth	2.1049	Pass

5	Emission Bandwidth	2.1049	Pass
6	Band Edge Compliance	2.1051/22.917(a)	Pass
7	Conducted Spurious Emission	2.1051/22.917(a)	Pass
8	Peak to Average Power Ratio	N/A	Pass

LTE Band 38

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	2.1046/27.50(h)	Pass
2	Emission Limit	2.1053/27.53(m)	Pass
3	Frequency Stability	2.1055/27.54	Pass
4	Occupied Bandwidth	2.1049	Pass
5	Emission Bandwidth	2.1049	Pass
6	Band Edge Compliance	2.1051/27.53(m)	Pass
7	Conducted Spurious Emission	2.1051/27.53(m)	Pass

LTE Band 40 (2305-2315MHz and 2350-2360MHz)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	2.1046/27.50(a)	Pass
2	Emission Limit	2.1053/27.53(a)	Pass
3	Frequency Stability	2.1055/27.54	Pass
4	Occupied Bandwidth	2.1049	Pass
5	Emission Bandwidth	2.1049	Pass
6	Band Edge Compliance	2.1051/27.53(a)	Pass
7	Conducted Spurious Emission	2.1051/27.53(a)	Pass
8	Peak to Average Power Ratio	27.50	Pass
9	Duty Cycle	27.50(a)	Pass

LTE Band 41

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	2.1046/27.50(h)	Pass
2	Emission Limit	2.1053/27.53(m)	Pass
3	Frequency Stability	2.1055/27.54	Pass
4	Occupied Bandwidth	2.1049	Pass
5	Emission Bandwidth	2.1049	Pass
6	Band Edge Compliance	2.1051/27.53(m)	Pass
7	Conducted Spurious Emission	2.1051/27.53(m)	Pass

Note1:

The T6F10, manufactured by Shanghai Sunmi Technology Co.,Ltd. is a new product for testing.

There are two configurations S15aa&S14aa (Mainly Supply) and S21aa&S24aa (Secondary Supply) in this project. We mainly tested the S15aa&S14aa (Mainly Supply), and the S21aa&S24aa (Secondary Supply) tested the worst mode RSE of the mainly supply, and recorded the test results of the worst mode respectively in the report.

The description of the differences between S15aa&S14aa (Mainly Supply) and S21aa&S24aa (Secondary Supply) are as follows:

Model Difference	T6F10 (High Configuration) S15aa&S14aa (Mainly Supply)	T6F10 (Basic Configuration) S21aa&S24aa (Secondary Supply)
Scanner	Yes	No
LCD (Just different manufacturers)	SHENZHEN DJN PHOTOELECTRIC TECHNOLOGY CO., LTD	CPT Technology (Group) Co.,Ltd
DDR	It's just that the manufacturer and memory are different	
EMMC	It's just that the manufacturer and memory are different	

Industrial Internet Innovation Center (Shanghai) Co., Ltd. only performed test cases which identified with Pass/Fail/Inc result in section 1.3.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. has verified that the compliance of the tested device specified in section 4 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 1 of this test report.

1.4 Data Provided by Applicant

No.	Item(s)	Data
1	LTE band 2	0.46
2	LTE band 4	-0.42
3	LTE band 5	-1.63
4	LTE band 7	0.39
5	LTE band 26	-1.63
6	LTE band 38	1.54
7	LTE band 40	1.01
8	LTE band 41	2.41

Note: The data of antenna gain is provided by Antenna specification may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer.

2. General Information of The Laboratory

2.1 Testing Laboratory

Lab Name	Industrial Internet Innovation Center (Shanghai) Co.,Ltd.
Address	Building 4, No. 766, Jingang Road, Pudong, Shanghai, China
Telephone	021-68866880
FCC Registration No.	708870
FCC Designation No.	CN1364

2.2 Laboratory Environmental Requirements

Temperature	15°C~35°C
Relative Humidity	25%RH~75%RH
Atmospheric Pressure	86kPa~106kPa

2.3 Project Information

Project Manager	Gao Hongning
Test Date	December 05, 2023 to February 05,2024

3. General Information of The Customer

3.1 Applicant

Company	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China
Telephone	18826519551

3.2 Manufacturer

Company	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, No.388,Song Hu Road, Yang Pu District, Shanghai, China
Telephone	18826519551

4. General Information of The Product

4.1 Product Description for Equipment under Test (EUT)

Product	Smart POS system
Model	T6F10
Date of Receipt	S14aa/S15aa/S21aa: December 05, 2023 S24aa:December 11, 2023
EUT ID*	S14aa/S15aa/S21aa/S24aa
SN/IMEI	S14aa:P305D3BP10020 S15aa: P305D3BP10023 S21aa: P302D3BF10251 S24aa :P305D3BP10042
Supported Radio Technology and Bands	GSM850/GSM900/DCS1800/PCS1900 WCDMA Band I/II/IV/V/VI/VIII/XIX LTE Band 1/2/3/4/5/7/8/18/19/20/26/28/34/38/39/40/41 BT 5.0 BLE/BR/EDR WLAN 802.11b/g/n WLAN 802.11a/n/ac GPS/GLONASS/BDS/Galileo NFC
Hardware Version	V1.0(LA+EU)
Software Version	V3.0.0
FCC ID	2AH25T6F10
Power Rating	DC 7.7V form battery, DC 5V form adapter
NOTE1: EUT ID is the internal identification code of the laboratory. NOTE2: Samples in the test report are provided by the customer. The test results are only applicable to the samples received by the laboratory.	

4.2 Description for Auxiliary Equipment (AE)

AE ID*	Description	Model	SN/Remark
AE1	RF Cable	N/A	N/A
CD01	Adapter	TPA-141A050200UU01	N/A
CH02	Adapter	UC13US	N/A
CI02	Adapter	TPA-23A050200UU01	N/A
UA09	USB Cable	N/A	N/A
BA12	Battery	HPPA	ICON ENERGY SYSTEM (SHENZHEN) CO., LTD.
BB07	Battery	HPPA	Guangdong Highpower New Energy TechnologyCo., Ltd.

NOTE1: AE ID is the internal identification code of the laboratory.
 NOTE2: By verifying that BA12+CI02 is the worst battery and adapter combination, this battery and adapter are used in all tests.

4.3 Additional Information

Modulation:

Type of modulation	QPSK/16QAM
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Band Frequency Range:

Band	Frequency Range
Band 2	1850 - 1910 MHz
Band 4	1710 - 1755 MHz
Band 5	824 - 849 MHz
Band 7	2500 - 2570 MHz
Band 26	824 - 849 MHz
Band 38	2570 - 2620 MHz
Band 40	2305 - 2315 MHz and 2350 - 2360 MHz
Band 41	2496 - 2690 MHz

Band List:

Band	BW (MHz)	Low Channel	Low Freq. (MHz)	Mid Channel	Mid Freq. (MHz)	High Channel	High Freq. (MHz)
Band 2	1.4	18607	1850.7	18900	1880	19193	1909.3
	3	18615	1851.5	18900	1880	19185	1908.5
	5	18625	1852.5	18900	1880	19175	1907.5
	10	18650	1855	18900	1880	19150	1905
	15	18675	1857.5	18900	1880	19125	1902.5
	20	18700	1860	18900	1880	19100	1900
Band 4	1.4	19957	1710.7	20175	1732.5	20393	1754.3
	3	19965	1711.5	20175	1732.5	20385	1753.5
	5	19975	1712.5	20175	1732.5	20375	1752.5
	10	20000	1715	20175	1732.5	20350	1750
	15	20025	1717.5	20175	1732.5	20325	1747.5
	20	20050	1720	20175	1732.5	20300	1745
Band 5	1.4	20407	824.7	20525	836.5	20643	848.3
	3	20415	825.5	20525	836.5	20635	847.5
	5	20425	826.5	20525	836.5	20625	846.5
	10	20450	829	20525	836.5	20600	844
Band 7	5	20775	2502.5	21100	2535	21425	2567.5
	10	20800	2505	21100	2535	21400	2565
	15	20825	2507.5	21100	2535	21375	2562.5
	20	20850	2510	21100	2535	21350	2560
Band 26 (824-849MHz)	1.4	26797	824.7	26915	836.5	27033	848.3
	3	26805	825.5	26915	836.5	27025	847.5
	5	26815	826.5	26915	836.5	27015	846.5
	10	26840	829	26915	836.5	26990	844

Band	BW (MHz)	Low Channel	Low Freq. (MHz)	Mid Channel	Mid Freq. (MHz)	High Channel	High Freq. (MHz)
	15	26865	831.5	26915	836.5	26965	841.5
Band 38	5	37775	2572.5	38000	2595	38225	2617.5
	10	37800	2575	38000	2595	38200	2615
	15	37825	2577.5	38000	2595	38175	2612.5
	20	37850	2580	38000	2595	38150	2610
Band 40A (2305–2315MHz)	5	38725	2307.5	38750	2310	38775	2312.5
	10	/	/	38750	2310	/	/
Band 40B (2350–2360MHz)	5	39175	2352.5	38750	2355	39225	2357.5
	10	/	/	38750	2355	/	/
Band 41	5	39675	2498.5	40620	2593	41565	2687.5
	10	39700	2501	40620	2593	41540	2685
	15	39725	2503.5	40620	2593	41515	2682.5
	20	39750	2506	40620	2593	41490	2680

5. Test Configuration Information

5.1 Laboratory Environmental Conditions

5.1.1 Permanent Facilities

Relative Humidity	Min. = 45%, Max. = 55%		
Atmospheric Pressure	101kPa		
Temperature	Normal	Minimum	Maximum
	25°C	-10°C	50°C
Working Voltage of EUT	Normal	Minimum	Maximum
	7.7V	6.0V	8.8 V

5.2 Test Equipments Utilized

Conduction test system

No.	Name	Model	S/N	SW Version	HW Version	Manufacturer	Cal. Date	Cal. Interval
1	Software	Eagle V3.3	N/A	V3.3	N/A	3IN	N/A	N/A
2	Frequency spectrum analyzer	FSQ	101091	V4.75	V11.00	R&S	2023-07-26	1 Year
3	Frequency spectrum analyzer	FSW43	101943	1.12	00	R&S	2023-08-31	1 Year
4	Wideband Radio Communication Tester	CMW 500	148874	V3.5.136	N/A	R&S	2023-07-27	1 Year
5	Temperature Chamber	B-TF-107C	201804107	N/A	N/A	BoYi	2023-06-28	1 Year
6	Programmable power supply	Keithley 2303	4039070	N/A	N/A	Keithley	2023-06-23	1 Year
7	RF Test Automation Box	RF 2021B	2001	V3.3	N/A	RANATEC	N/A	N/A

Radiated emission test system

No.	Name	Model	S/N	SW Version	HW Version	Manufacturer	Cal. Date	Cal. Interval
1	Universal Radio Communication Tester	CMU200	123126	V5.2.1	B12	R&S	2023-10-16	1 Year
2	Universal Radio Communication Tester	CMW500	104178	V3.7.20	1206.0600.00	R&S	2023-10-16	1 Year
3	EMI Test Receiver	ESU40	100307	V5.1-24-3	01	R&S	2022-12-19	1 Year
4	TRILOG Broadband Antenna	VULB9163	01345	N/A	N/A	Schwarzbeck	2023-03-23	1 Year

5	Double- ridged Waveguide Antenna	ETS-3117	00135890	N/A	N/A	ETS	2022-03-09	2 Years
6	EMI Test Software	EMC32 V10.35.02	N/A	N/A	N/A	R&S	N/A	N/A
7	Preamplifier	SCU08F1	8320024	N/A	N/A	R&S	2023-10-16	1 year
8	Preamplifier	SCU18	10155	N/A	N/A	R&S	2023-10-16	1 year
9	Antenna	SWB-VUBA 9117	9117-266	N/A	N/A	Schwarzbeck	2023-9-8	1 year
10	Antenna	BBHA9120 D	02112	N/A	N/A	Schwarzbeck	2023-7-28	1 year
11	Signal Generator	SMF100A	102314	3.20.390.24	05.10	R&S	2023-10-16	1 year

5.3 Measurement Uncertainty

Measurement Uncertainty of Radiation test

Frequency Range	Uncertainty(dB)
$30\text{MHz} \leq f \leq 1\text{GHz}$	± 5.10
$1\text{GHz} \leq f \leq 18\text{GHz}$	± 5.66
$18\text{GHz} \leq f \leq 40\text{GHz}$	± 5.22

Measurement Uncertainty of Conduction test

No	Item	Extended uncertainty (k=2)	
1	Frequency Tolerance	23Hz	
2	RF Output Power	0.7dB	
3	conducted spurious	9kHz~3.6GHz	1.5dB
		3.6GHz~8.4GHz	2.8dB
		8.4GHz~12.75GHz	3.4dB
4	EVM	2.1%	
6	Occupied Bandwidth	Bandwidth 1.4MHz	0.03MHz
		Bandwidth 3MHz	0.03MHz
		Bandwidth 5MHz	0.03MHz
		Bandwidth 10MHz	0.05MHz
		Bandwidth 15MHz	0.06MHz
		Bandwidth 20MHz	0.08MHz
7	Emission intermodulation	Adjacent channel	1.4dB
		Alternate channel	1.4dB
8	Range of frequency	0.08MHz	

6. Test Results

6.1 Output Power

6.1.1 Measurement Limit

FCC §22.913(a) (5) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC §24.232(c) Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

FCC §27.50(a) For mobile and portable stations transmitting in the 2305–2315 MHz band or the 2350–2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. ($EIRP \leq 24dBm/5MHz$)

FCC §27.50(d) (4) Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band is limited to 1 watt EIRP.

FCC §27.50(h): Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

6.1.2 Method of Measurements

Method of measurements please refer to KDB971168 D01 v03 clause 5.

The EUT was set up for the max output power with pseudo random data modulation.

The power was measured with Rhode & Schwarz base station CMW500.

These measurements were done at 3 frequencies.(bottom, middle and top of operational frequency range).

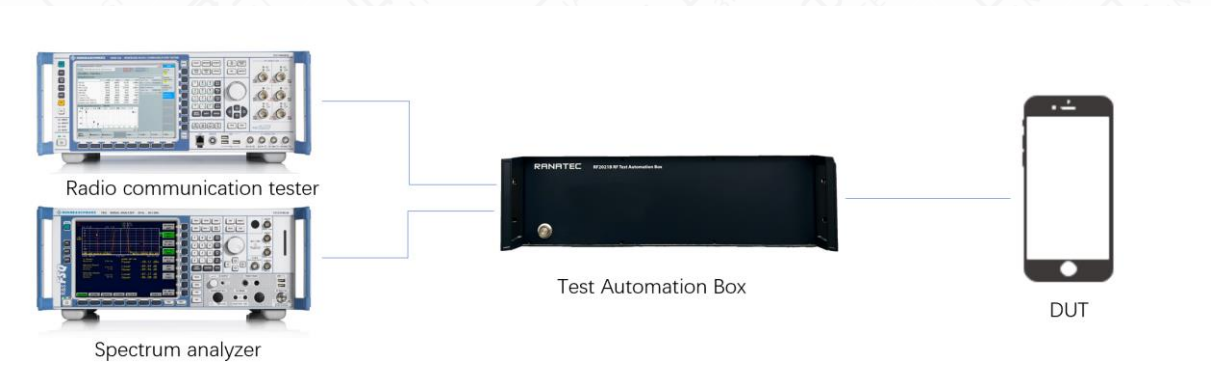
1. The transmitter output port was connected to base station.
2. Set the EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record maximum average power for other modulation signal.
5. During the process of testing, the EUT was controlled Rhode & Schwarz Digital Radio.
6. Communication tester to ensure max power transmission and proper modulation.
7. This result contains output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

$EIRP = \text{Conducted power} + \text{Gain}$, $ERP = EIRP - 2.15dB_i$.

6.1.3 Test procedures

The transmitter output power was connected to calibrated attenuator, the other end of which was connected to signal analyzer. Transmitter output power was read off the power in dBm. The power outputs at the transmitter antenna port was determined by adding the value of attenuator to the base station reading.

6.1.4 Test Setup



6.1.5 Output Power Measurement result

LTE band 2

LTE B2			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	1.4MHz		
				Channel/Frequency(MHz)		
				18607/1850.7	18900/1880	19193/1909.3
QPSK	1	Low	23.00	22.06	22.12	22.11
		Middle		22.29	22.27	22.25
		High		21.97	21.98	22.01
	50%	Low	23.00	22.19	22.33	22.28
		Middle		22.20	22.25	22.17
		High		22.17	22.27	22.05
100%	/	22.00	21.27	21.38	21.25	
16QAM	1	Low	22.00	21.41	21.57	21.52
		Middle		21.39	21.44	21.47
		High		21.40	21.37	21.31
	50%	Low	22.00	21.35	21.28	21.25
		Middle		21.33	21.26	21.35
		High		21.34	21.32	21.26
100%	/	21.00	20.34	20.42	20.36	
Modulation	RB	RB Offset	Tune up	3MHz		
				Channel/Frequency(MHz)		
				18615/1851.5	18900/1880	19185/1908.5
QPSK	1	Low	23.00	22.08	22.16	22.14
		Middle		22.27	22.30	22.29
		High		22.00	22.03	22.05
	50%	Low	22.00	21.29	21.55	21.41
		Middle		21.32	21.35	21.29
		High		21.27	21.38	21.15
100%	/	22.00	21.27	21.42	21.28	
16QAM	1	Low	22.00	21.44	21.59	21.55

	50%	Middle	21.00	21.42	21.44	21.51	
		High		21.42	21.41	21.34	
		Low		20.46	20.41	20.37	
	100%	Middle	21.00	20.44	20.39	20.47	
		High		20.44	20.44	20.39	
		/		20.37	20.46	20.39	
Modulation	RB	RB Offset	Tune up	5MHz			
				Channel/Frequency(MHz)			
				18625/1852.5	18900/1880	19175/1907.5	
QPSK	1	Low	23.00	22.05	22.14	22.10	
		Middle		22.35	22.31	22.26	
		High		21.97	21.98	22.01	
	50%	Low	22.00	21.26	21.50	21.37	
		Middle		21.30	21.31	21.24	
		High		21.25	21.36	21.11	
	100%	/	22.00	21.27	21.41	21.26	
	16QAM	1	Low	22.00	21.41	21.55	21.52
			Middle		21.39	21.42	21.48
High			21.39		21.39	21.30	
50%		Low	21.00	20.44	20.37	20.34	
		Middle		20.41	20.34	20.43	
		High		20.41	20.39	20.35	
100%		/	21.00	20.35	20.42	20.34	
Modulation		RB	RB Offset	Tune up	10MHz		
					Channel/Frequency(MHz)		
	18650/1855				18900/1880	19150/1905	
QPSK	1	Low	23.00	22.07	22.15	22.13	
		Middle		22.31	22.21	22.30	
		High		21.99	22.02	22.04	
	50%	Low	22.00	21.29	21.55	21.41	
		Middle		21.33	21.36	21.28	
		High		21.27	21.40	21.16	
	100%	/	22.00	21.31	21.43	21.30	
	16QAM	1	Low	22.00	21.43	21.58	21.54
			Middle		21.42	21.46	21.51
High			21.42		21.41	21.33	
50%		Low	21.00	20.47	20.42	20.38	
		Middle		20.43	20.38	20.46	
		High		20.44	20.44	20.39	
100%		/	21.00	20.38	20.47	20.38	
Modulation		RB	RB Offset	Tune up	15MHz		
					Channel/Frequency(MHz)		
	18675/1857.5				18900/1880	19125/1902.5	
QPSK	1	Low	23.00	22.06	22.11	22.11	

Modulation	RB	RB Offset	Tune up	20MHz			
				Channel/Frequency(MHz)			
				18700/1860	18900/1880	19100/1900	
16QAM	50%	Middle	22.00	22.33	22.34	22.27	
		High		21.96	21.97	22.00	
		Low		21.27	21.51	21.38	
	100%	Middle	22.00	21.30	21.31	21.24	
		High		21.24	21.37	21.12	
		Low		21.29	21.39	21.25	
	16QAM	1	Low	22.00	21.38	21.56	21.52
			Middle		21.40	21.43	21.49
			High		21.39	21.37	21.30
		50%	Low	21.00	20.44	20.40	20.35
Middle			20.40		20.33	20.42	
High			20.42		20.40	20.36	
100%	/	21.00	20.35	20.42	20.34		
QPSK	1	Low	23.00	22.03	22.07	22.08	
		Middle		22.35	22.36	22.25	
		High		21.94	21.96	21.97	
	50%	Low	22.00	21.24	21.56	21.34	
		Middle		21.28	21.27	21.21	
		High		21.21	21.32	21.08	
	100%	/	22.00	21.26	21.34	21.21	
	16QAM	1	Low	22.00	21.46	21.52	21.47
			Middle		21.36	21.41	21.45
			High		21.37	21.34	21.28
50%		Low	21.00	20.41	20.36	20.32	
		Middle		20.37	20.31	20.39	
		High		20.39	20.35	20.32	
100%		/	21.00	20.33	20.38	20.31	

LTE band 4

LTE B4			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	1.4MHz		
				Channel/Frequency(MHz)		
				19957/1710.7	20175/1732.5	20393/1754.3
QPSK	1	Low	23.00	21.97	22.02	21.88
		Middle		22.09	22.07	22.15
		High		21.75	21.79	21.82
	50%	Low	23.00	22.09	22.15	22.09
		Middle		22.09	22.12	22.10
		High		21.98	22.03	22.01
100%	/	22.00	21.04	21.13	21.07	
16QAM	1	Low	22.00	21.18	21.33	21.27
		Middle		21.16	21.22	21.14

	50%	High	22.00	21.19	21.28	21.31	
		Low		21.06	21.09	21.06	
		Middle		21.07	21.10	21.07	
		High		21.07	20.98	20.86	
	100%	/	21.00	20.19	20.10	20.07	
Modulation	RB	RB Offset	Tune up	3MHz			
				Channel/Frequency(MHz)			
				19965/1711.5	20175/1732.5	20385/1753.5	
QPSK	1	Low	23.00	21.99	22.06	21.91	
		Middle		22.07	22.09	22.04	
		High		21.78	21.84	21.86	
	50%	Low	22.00	21.19	21.28	21.22	
		Middle		21.21	21.22	21.25	
		High		21.08	21.14	21.11	
	100%	/	22.00	21.04	21.17	21.10	
	16QAM	1	Low	22.00	21.21	21.35	21.30
			Middle		21.19	21.22	21.18
High			21.21		21.32	21.34	
50%		Low	21.00	20.17	20.22	20.18	
		Middle		20.18	20.23	20.19	
		High		20.17	20.10	19.99	
100%		/	21.00	20.22	20.14	20.10	
Modulation		RB	RB Offset	Tune up	5MHz		
					Channel/Frequency(MHz)		
	19975/1712.5				20175/1732.5	20375/1752.5	
QPSK	1	Low	23.00	21.96	22.04	21.87	
		Middle		22.05	22.06	22.07	
		High		21.75	21.79	21.82	
	50%	Low	22.00	21.16	21.23	21.18	
		Middle		21.19	21.28	21.17	
		High		21.06	21.12	21.07	
	100%	/	22.00	21.04	21.16	21.08	
	16QAM	1	Low	22.00	21.18	21.31	21.27
			Middle		21.16	21.20	21.15
High			21.18		21.30	21.30	
50%		Low	21.00	20.15	20.18	20.15	
		Middle		20.15	20.18	20.15	
		High		20.14	20.05	19.95	
100%		/	21.00	20.20	20.10	20.05	
Modulation		RB	RB Offset	Tune up	10MHz		
					Channel/Frequency(MHz)		
	20000/1715				20175/1732.5	20350/1750	
QPSK	1	Low	23.00	21.98	22.05	21.90	
		Middle		22.08	22.14	22.12	

	50%	High	22.00	21.77	21.83	21.85
		Low		21.19	21.28	21.22
		Middle		21.22	21.23	21.21
		High		21.08	21.16	21.12
	100%	/	22.00	21.08	21.18	21.12
16QAM	1	Low	22.00	21.20	21.34	21.29
		Middle		21.19	21.24	21.18
		High		21.21	21.32	21.33
	50%	Low	21.00	20.18	20.23	20.19
		Middle		20.17	20.22	20.18
		High		20.17	20.10	19.99
	100%	/	21.00	20.23	20.15	20.09
	Modulation	RB	RB Offset	Tune up	15MHz	
Channel/Frequency(MHz)						
20025/1717.5					20175/1732.5	20325/1747.5
QPSK	1	Low	23.00	21.97	22.01	21.88
		Middle		22.06	22.11	22.07
		High		21.74	21.78	21.81
	50%	Low	22.00	21.17	21.24	21.19
		Middle		21.19	21.28	21.17
		High		21.05	21.13	21.08
	100%	/	22.00	21.06	21.14	21.07
	16QAM	1	Low	22.00	21.15	21.32
Middle			21.17		21.21	21.16
High			21.18		21.28	21.30
50%		Low	21.00	20.15	20.21	20.16
		Middle		20.14	20.17	20.14
		High		20.15	20.06	19.96
100%		/	21.00	20.20	20.10	20.05
Modulation		RB	RB Offset	Tune up	20MHz	
	Channel/Frequency(MHz)					
	20050/1720				20175/1732.5	20300/1745
QPSK	1	Low	23.00	21.94	21.97	21.85
		Middle		22.05	22.16	22.15
		High		21.72	21.77	21.78
	50%	Low	22.00	21.14	21.29	21.15
		Middle		21.11	21.24	21.14
		High		21.02	21.08	21.04
	100%	/	22.00	21.03	21.09	21.03
	16QAM	1	Low	22.00	21.16	21.28
Middle			21.13		21.19	21.12
High			21.16		21.25	21.28
50%		Low	21.00	20.12	20.17	20.13
		Middle		20.11	20.15	20.11

		High		20.12	20.01	19.92
	100%	/	21.00	20.18	20.06	20.02

LTE band 5

LTE B5			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	1.4MHz		
				Channel/Frequency(MHz)		
				20407/824.7	20525/836.5	20643/848.3
QPSK	1	Low	23.00	22.31	22.44	21.94
		Middle		22.42	22.36	21.94
		High		22.42	22.37	21.93
	50%	Low	23.00	22.37	22.44	22.36
		Middle		22.33	22.44	22.37
		High		22.27	22.30	22.24
100%	/	22.00	21.29	21.40	21.45	
16QAM	1	Low	22.00	21.47	21.46	21.51
		Middle		21.45	21.50	21.43
		High		21.51	21.49	21.48
	50%	Low	22.00	21.28	21.37	21.46
		Middle		21.45	21.36	21.44
		High		21.42	21.38	21.43
100%	/	21.00	20.33	20.41	20.37	
Modulation	RB	RB Offset	Tune up	3MHz		
				Channel/Frequency(MHz)		
				20415/825.5	20525/836.5	20635/847.5
QPSK	1	Low	23.00	22.32	22.37	21.96
		Middle		22.41	22.40	21.99
		High		22.44	22.41	21.96
	50%	Low	23.00	21.47	21.56	21.49
		Middle		21.46	21.55	21.48
		High		21.37	21.43	21.35
100%	/	22.00	21.33	21.45	21.50	
16QAM	1	Low	22.00	21.49	21.47	21.53
		Middle		21.48	21.52	21.47
		High		21.53	21.53	21.50
	50%	Low	22.00	20.40	20.51	20.59
		Middle		20.55	20.48	20.55
		High		20.52	20.50	20.56
100%	/	21.00	20.37	20.46	20.39	
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				20425/826.5	20525/836.5	20625/846.5
QPSK	1	Low	23.00	22.31	22.43	21.94
		Middle		22.39	22.39	21.96
		High		22.41	22.36	21.92

Modulation	RB	RB Offset	Tune up	10MHz			
				Channel/Frequency(MHz)			
				20450/829	20525/836.5	20600/844	
50%	23.00	Low	23.00	21.45	21.52	21.46	
		Middle		21.43	21.50	21.44	
		High		21.34	21.40	21.31	
	100%	/	22.00	21.31	21.41	21.45	
16QAM	1	Low	22.00	21.44	21.45	21.51	
		Middle		21.46	21.49	21.45	
		High		21.50	21.49	21.47	
	50%	Low	22.00	20.37	20.49	20.56	
		Middle		20.52	20.43	20.51	
		High		20.50	20.46	20.53	
	100%	/	21.00	20.34	20.41	20.35	
	QPSK	1	Low	23.00	22.28	22.39	21.91
			Middle		22.38	22.45	21.94
			High		22.39	22.35	21.89
50%		Low	23.00	21.42	21.57	21.42	
		Middle		21.41	21.46	21.41	
		High		21.31	21.35	21.27	
100%		/	22.00	21.28	21.36	21.41	
16QAM		1	Low	22.00	21.48	21.41	21.46
			Middle		21.42	21.47	21.41
	High		21.48		21.46	21.45	
	50%	Low	22.00	20.34	20.45	20.53	
		Middle		20.49	20.41	20.48	
		High		20.47	20.41	20.49	
	100%	/	21.00	20.32	20.37	20.32	

LTE band 7

LTE B7				Maximum Conducted Power (dBm)		
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				20775/2502.5	21100/2535	21425/2567.5
QPSK	1	Low	23.00	22.19	22.08	22.16
		Middle		22.54	22.47	22.48
		High		22.34	22.29	22.22
	50%	Low	22.00	21.44	21.52	21.46
		Middle		21.38	21.51	21.40
		High		21.41	21.49	21.42
100%	/	22.00	21.43	21.54	21.40	
16QAM	1	Low	22.00	21.50	21.35	21.44
		Middle		21.48	21.54	21.45
		High		21.37	21.49	21.39
	50%	Low	21.00	20.44	20.53	20.43

	100%	Middle	21.00	20.48	20.51	20.43
		High		20.61	20.58	20.51
		/		20.48	20.63	20.47
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				20800/2505	21100/2535	21400/2565
QPSK	1	Low	23.00	22.21	22.09	22.19
		Middle		22.47	22.52	22.52
		High		22.36	22.33	22.25
	50%	Low	22.00	21.47	21.57	21.50
		Middle		21.41	21.56	21.44
		High		21.43	21.53	21.47
100%	/	22.00	21.47	21.56	21.44	
16QAM	1	Low	22.00	21.52	21.38	21.46
		Middle		21.51	21.58	21.48
		High		21.40	21.51	21.42
	50%	Low	21.00	20.47	20.58	20.47
		Middle		20.50	20.55	20.46
		High		20.64	20.63	20.55
100%	/	21.00	20.51	20.68	20.51	
Modulation	RB	RB Offset	Tune up	15MHz		
				Channel/Frequency(MHz)		
				20825/2507.5	21100/2535	21375/2562.5
QPSK	1	Low	23.00	22.20	22.05	22.17
		Middle		22.55	22.51	22.49
		High		22.33	22.28	22.21
	50%	Low	22.00	21.45	21.53	21.47
		Middle		21.38	21.51	21.40
		High		21.40	21.50	21.43
100%	/	22.00	21.45	21.52	21.39	
16QAM	1	Low	22.00	21.47	21.36	21.44
		Middle		21.49	21.55	21.46
		High		21.37	21.47	21.39
	50%	Low	21.00	20.44	20.56	20.44
		Middle		20.47	20.50	20.42
		High		20.62	20.59	20.52
100%	/	21.00	20.48	20.63	20.47	
Modulation	RB	RB Offset	Tune up	20MHz		
				Channel/Frequency(MHz)		
				20850/2510	21100/2535	21350/2560
QPSK	1	Low	23.50	22.17	22.01	22.14
		Middle		22.54	22.57	22.47
		High		22.31	22.27	22.18
	50%	Low	22.50	21.42	21.58	21.43

		Middle		21.36	21.47	21.37
		High		21.37	21.45	21.39
	100%	/	22.50	21.42	21.47	21.35
16QAM	1	Low	22.50	21.39	21.32	21.39
		Middle		21.45	21.53	21.42
		High		21.35	21.44	21.37
	50%	Low	21.50	20.41	20.52	20.41
		Middle		20.44	20.48	20.39
		High		20.59	20.54	20.48
	100%	/	21.50	20.46	20.59	20.44

LTE BAND 26(part 22)

Band :	Range :	BandWidth :	RB size/offset :	Frequency(MHz) :	Modulation :	Power(dBm) :
FDD26(PART 22)	LowRange	1.4	OneRB_high	824.7	QPSK	22.25
FDD26(PART 22)	LowRange	1.4	OneRB_high	824.7	Q16	21.42
FDD26(PART 22)	LowRange	1.4	OneRB_low	824.7	QPSK	22.24
FDD26(PART 22)	LowRange	1.4	OneRB_low	824.7	Q16	21.41
FDD26(PART 22)	LowRange	1.4	OneRB_middle	824.7	QPSK	22.41
FDD26(PART 22)	LowRange	1.4	OneRB_middle	824.7	Q16	21.6
FDD26(PART 22)	LowRange	1.4	HalfRB_low	824.7	QPSK	22.35
FDD26(PART 22)	LowRange	1.4	HalfRB_low	824.7	Q16	21.29
FDD26(PART 22)	LowRange	1.4	HalfRB_middle	824.7	QPSK	22.34
FDD26(PART 22)	LowRange	1.4	HalfRB_middle	824.7	Q16	21.34
FDD26(PART 22)	LowRange	1.4	HalfRB_high	824.7	QPSK	22.31
FDD26(PART 22)	LowRange	1.4	HalfRB_high	824.7	Q16	21.42
FDD26(PART 22)	LowRange	1.4	fullRB	824.7	QPSK	21.31
FDD26(PART 22)	LowRange	1.4	fullRB	824.7	Q16	20.31
FDD26(PART 22)	LowRange	3	OneRB_high	825.5	QPSK	22.24
FDD26(PART 22)	LowRange	3	OneRB_high	825.5	Q16	21.42
FDD26(PART 22)	LowRange	3	OneRB_low	825.5	QPSK	22.29
FDD26(PART 22)	LowRange	3	OneRB_low	825.5	Q16	21.43
FDD26(PART 22)	LowRange	3	OneRB_middle	825.5	QPSK	22.31
FDD26(PART 22)	LowRange	3	OneRB_middle	825.5	Q16	21.48
FDD26(PART 22)	LowRange	3	HalfRB_low	825.5	QPSK	21.29
FDD26(PART 22)	LowRange	3	HalfRB_low	825.5	Q16	20.29
FDD26(PART 22)	LowRange	3	HalfRB_middle	825.5	QPSK	21.29
FDD26(PART 22)	LowRange	3	HalfRB_middle	825.5	Q16	20.28
FDD26(PART 22)	LowRange	3	HalfRB_high	825.5	QPSK	21.27
FDD26(PART 22)	LowRange	3	HalfRB_high	825.5	Q16	20.28
FDD26(PART 22)	LowRange	3	fullRB	825.5	QPSK	21.26
FDD26(PART 22)	LowRange	3	fullRB	825.5	Q16	20.25
FDD26(PART 22)	LowRange	5	OneRB_high	826.5	QPSK	22.16
FDD26(PART 22)	LowRange	5	OneRB_high	826.5	Q16	21.44
FDD26(PART 22)	LowRange	5	OneRB_low	826.5	QPSK	22.17
FDD26(PART 22)	LowRange	5	OneRB_low	826.5	Q16	21.43
FDD26(PART 22)	LowRange	5	OneRB_middle	826.5	QPSK	22.32
FDD26(PART 22)	LowRange	5	OneRB_middle	826.5	Q16	21.56
FDD26(PART 22)	LowRange	5	HalfRB_low	826.5	QPSK	21.25
FDD26(PART 22)	LowRange	5	HalfRB_low	826.5	Q16	20.3
FDD26(PART 22)	LowRange	5	HalfRB_middle	826.5	QPSK	21.26
FDD26(PART 22)	LowRange	5	HalfRB_middle	826.5	Q16	20.31
FDD26(PART 22)	LowRange	5	HalfRB_high	826.5	QPSK	21.21
FDD26(PART 22)	LowRange	5	HalfRB_high	826.5	Q16	20.27
FDD26(PART 22)	LowRange	5	fullRB	826.5	QPSK	21.23
FDD26(PART 22)	LowRange	5	fullRB	826.5	Q16	20.25
FDD26(PART 22)	LowRange	10	OneRB_high	829	QPSK	22.24

FDD26(PART 22)	LowRange	10	OneRB_high	829	Q16	21.36
FDD26(PART 22)	LowRange	10	OneRB_low	829	QPSK	22.24
FDD26(PART 22)	LowRange	10	OneRB_low	829	Q16	21.42
FDD26(PART 22)	LowRange	10	OneRB_middle	829	QPSK	22.39
FDD26(PART 22)	LowRange	10	OneRB_middle	829	Q16	21.58
FDD26(PART 22)	LowRange	10	HalfRB_low	829	QPSK	21.36
FDD26(PART 22)	LowRange	10	HalfRB_low	829	Q16	20.39
FDD26(PART 22)	LowRange	10	HalfRB_middle	829	QPSK	21.36
FDD26(PART 22)	LowRange	10	HalfRB_middle	829	Q16	20.41
FDD26(PART 22)	LowRange	10	HalfRB_high	829	QPSK	21.29
FDD26(PART 22)	LowRange	10	HalfRB_high	829	Q16	20.32
FDD26(PART 22)	LowRange	10	fullRB	829	QPSK	21.3
FDD26(PART 22)	LowRange	10	fullRB	829	Q16	20.35
FDD26(PART 22)	LowRange	15	OneRB_high	831.5	QPSK	22.18
FDD26(PART 22)	LowRange	15	OneRB_high	831.5	Q16	21.35
FDD26(PART 22)	LowRange	15	OneRB_low	831.5	QPSK	22.21
FDD26(PART 22)	LowRange	15	OneRB_low	831.5	Q16	21.38
FDD26(PART 22)	LowRange	15	OneRB_middle	831.5	QPSK	22.25
FDD26(PART 22)	LowRange	15	OneRB_middle	831.5	Q16	21.43
FDD26(PART 22)	LowRange	15	HalfRB_low	831.5	QPSK	21.39
FDD26(PART 22)	LowRange	15	HalfRB_low	831.5	Q16	21.38
FDD26(PART 22)	LowRange	15	HalfRB_middle	831.5	QPSK	21.38
FDD26(PART 22)	LowRange	15	HalfRB_middle	831.5	Q16	21.39
FDD26(PART 22)	LowRange	15	HalfRB_high	831.5	QPSK	21.37
FDD26(PART 22)	LowRange	15	HalfRB_high	831.5	Q16	21.35
FDD26(PART 22)	LowRange	15	fullRB	831.5	QPSK	21.31
FDD26(PART 22)	LowRange	15	fullRB	831.5	Q16	20.29
FDD26(PART 22)	MidRange	1.4	OneRB_high	836.5	QPSK	22.16
FDD26(PART 22)	MidRange	1.4	OneRB_high	836.5	Q16	21.21
FDD26(PART 22)	MidRange	1.4	OneRB_low	836.5	QPSK	22.2
FDD26(PART 22)	MidRange	1.4	OneRB_low	836.5	Q16	21.24
FDD26(PART 22)	MidRange	1.4	OneRB_middle	836.5	QPSK	22.34
FDD26(PART 22)	MidRange	1.4	OneRB_middle	836.5	Q16	21.4
FDD26(PART 22)	MidRange	1.4	HalfRB_low	836.5	QPSK	22.32
FDD26(PART 22)	MidRange	1.4	HalfRB_low	836.5	Q16	21.47
FDD26(PART 22)	MidRange	1.4	HalfRB_middle	836.5	QPSK	22.29
FDD26(PART 22)	MidRange	1.4	HalfRB_middle	836.5	Q16	21.48
FDD26(PART 22)	MidRange	1.4	HalfRB_high	836.5	QPSK	22.31
FDD26(PART 22)	MidRange	1.4	HalfRB_high	836.5	Q16	21.49
FDD26(PART 22)	MidRange	1.4	fullRB	836.5	QPSK	21.29
FDD26(PART 22)	MidRange	1.4	fullRB	836.5	Q16	20.29
FDD26(PART 22)	MidRange	3	OneRB_high	836.5	QPSK	22.23
FDD26(PART 22)	MidRange	3	OneRB_high	836.5	Q16	21.76
FDD26(PART 22)	MidRange	3	OneRB_low	836.5	QPSK	22.27
FDD26(PART 22)	MidRange	3	OneRB_low	836.5	Q16	21.8
FDD26(PART 22)	MidRange	3	OneRB_middle	836.5	QPSK	22.23
FDD26(PART 22)	MidRange	3	OneRB_middle	836.5	Q16	21.78
FDD26(PART 22)	MidRange	3	HalfRB_low	836.5	QPSK	21.26
FDD26(PART 22)	MidRange	3	HalfRB_low	836.5	Q16	20.45
FDD26(PART 22)	MidRange	3	HalfRB_middle	836.5	QPSK	21.26
FDD26(PART 22)	MidRange	3	HalfRB_middle	836.5	Q16	20.43
FDD26(PART 22)	MidRange	3	HalfRB_high	836.5	QPSK	21.26
FDD26(PART 22)	MidRange	3	HalfRB_high	836.5	Q16	20.44
FDD26(PART 22)	MidRange	3	fullRB	836.5	QPSK	21.29
FDD26(PART 22)	MidRange	3	fullRB	836.5	Q16	20.38
FDD26(PART 22)	MidRange	5	OneRB_high	836.5	QPSK	22.2
FDD26(PART 22)	MidRange	5	OneRB_high	836.5	Q16	21.45
FDD26(PART 22)	MidRange	5	OneRB_low	836.5	QPSK	22.18
FDD26(PART 22)	MidRange	5	OneRB_low	836.5	Q16	21.41
FDD26(PART 22)	MidRange	5	OneRB_middle	836.5	QPSK	22.28

FDD26(PART 22)	MidRange	5	OneRB_middle	836.5	Q16	21.55
FDD26(PART 22)	MidRange	5	HalfRB_low	836.5	QPSK	21.28
FDD26(PART 22)	MidRange	5	HalfRB_low	836.5	Q16	20.33
FDD26(PART 22)	MidRange	5	HalfRB_middle	836.5	QPSK	21.29
FDD26(PART 22)	MidRange	5	HalfRB_middle	836.5	Q16	20.31
FDD26(PART 22)	MidRange	5	HalfRB_high	836.5	QPSK	21.25
FDD26(PART 22)	MidRange	5	HalfRB_high	836.5	Q16	20.28
FDD26(PART 22)	MidRange	5	fullRB	836.5	QPSK	21.31
FDD26(PART 22)	MidRange	5	fullRB	836.5	Q16	20.3
FDD26(PART 22)	MidRange	10	OneRB_high	836.5	QPSK	22.25
FDD26(PART 22)	MidRange	10	OneRB_high	836.5	Q16	21.81
FDD26(PART 22)	MidRange	10	OneRB_low	836.5	QPSK	22.24
FDD26(PART 22)	MidRange	10	OneRB_low	836.5	Q16	21.81
FDD26(PART 22)	MidRange	10	OneRB_middle	836.5	QPSK	22.39
FDD26(PART 22)	MidRange	10	OneRB_middle	836.5	Q16	21.95
FDD26(PART 22)	MidRange	10	HalfRB_low	836.5	QPSK	21.32
FDD26(PART 22)	MidRange	10	HalfRB_low	836.5	Q16	20.41
FDD26(PART 22)	MidRange	10	HalfRB_middle	836.5	QPSK	21.35
FDD26(PART 22)	MidRange	10	HalfRB_middle	836.5	Q16	20.4
FDD26(PART 22)	MidRange	10	HalfRB_high	836.5	QPSK	21.23
FDD26(PART 22)	MidRange	10	HalfRB_high	836.5	Q16	20.31
FDD26(PART 22)	MidRange	10	fullRB	836.5	QPSK	21.34
FDD26(PART 22)	MidRange	10	fullRB	836.5	Q16	20.37
FDD26(PART 22)	MidRange	15	OneRB_high	836.5	QPSK	22.16
FDD26(PART 22)	MidRange	15	OneRB_high	836.5	Q16	21.72
FDD26(PART 22)	MidRange	15	OneRB_low	836.5	QPSK	22.17
FDD26(PART 22)	MidRange	15	OneRB_low	836.5	Q16	21.73
FDD26(PART 22)	MidRange	15	OneRB_middle	836.5	QPSK	22.24
FDD26(PART 22)	MidRange	15	OneRB_middle	836.5	Q16	21.81
FDD26(PART 22)	MidRange	15	HalfRB_low	836.5	QPSK	21.76
FDD26(PART 22)	MidRange	15	HalfRB_low	836.5	Q16	21.75
FDD26(PART 22)	MidRange	15	HalfRB_middle	836.5	QPSK	21.74
FDD26(PART 22)	MidRange	15	HalfRB_middle	836.5	Q16	21.75
FDD26(PART 22)	MidRange	15	HalfRB_high	836.5	QPSK	21.71
FDD26(PART 22)	MidRange	15	HalfRB_high	836.5	Q16	21.74
FDD26(PART 22)	MidRange	15	fullRB	836.5	QPSK	21.3
FDD26(PART 22)	MidRange	15	fullRB	836.5	Q16	20.29
FDD26(PART 22)	HighRange	1.4	OneRB_high	848.3	QPSK	22.08
FDD26(PART 22)	HighRange	1.4	OneRB_high	848.3	Q16	21.23
FDD26(PART 22)	HighRange	1.4	OneRB_low	848.3	QPSK	22.06
FDD26(PART 22)	HighRange	1.4	OneRB_low	848.3	Q16	21.24
FDD26(PART 22)	HighRange	1.4	OneRB_middle	848.3	QPSK	22.24
FDD26(PART 22)	HighRange	1.4	OneRB_middle	848.3	Q16	21.41
FDD26(PART 22)	HighRange	1.4	HalfRB_low	848.3	QPSK	22.21
FDD26(PART 22)	HighRange	1.4	HalfRB_low	848.3	Q16	21.14
FDD26(PART 22)	HighRange	1.4	HalfRB_middle	848.3	QPSK	22.16
FDD26(PART 22)	HighRange	1.4	HalfRB_middle	848.3	Q16	21.12
FDD26(PART 22)	HighRange	1.4	HalfRB_high	848.3	QPSK	22.14
FDD26(PART 22)	HighRange	1.4	HalfRB_high	848.3	Q16	21.14
FDD26(PART 22)	HighRange	1.4	fullRB	848.3	QPSK	21.15
FDD26(PART 22)	HighRange	1.4	fullRB	848.3	Q16	20.16
FDD26(PART 22)	HighRange	3	OneRB_high	847.5	QPSK	22.07
FDD26(PART 22)	HighRange	3	OneRB_high	847.5	Q16	21.26
FDD26(PART 22)	HighRange	3	OneRB_low	847.5	QPSK	22.12
FDD26(PART 22)	HighRange	3	OneRB_low	847.5	Q16	21.36
FDD26(PART 22)	HighRange	3	OneRB_middle	847.5	QPSK	22.15
FDD26(PART 22)	HighRange	3	OneRB_middle	847.5	Q16	21.31
FDD26(PART 22)	HighRange	3	HalfRB_low	847.5	QPSK	21.18
FDD26(PART 22)	HighRange	3	HalfRB_low	847.5	Q16	20.17
FDD26(PART 22)	HighRange	3	HalfRB_middle	847.5	QPSK	21.16

FDD26(PART 22)	HighRange	3	HalfRB_middle	847.5	Q16	20.16
FDD26(PART 22)	HighRange	3	HalfRB_high	847.5	QPSK	21.08
FDD26(PART 22)	HighRange	3	HalfRB_high	847.5	Q16	20.1
FDD26(PART 22)	HighRange	3	fullRB	847.5	QPSK	21.15
FDD26(PART 22)	HighRange	3	fullRB	847.5	Q16	20.14
FDD26(PART 22)	HighRange	5	OneRB_high	846.5	QPSK	21.99
FDD26(PART 22)	HighRange	5	OneRB_high	846.5	Q16	21.26
FDD26(PART 22)	HighRange	5	OneRB_low	846.5	QPSK	22.12
FDD26(PART 22)	HighRange	5	OneRB_low	846.5	Q16	21.39
FDD26(PART 22)	HighRange	5	OneRB_middle	846.5	QPSK	22.19
FDD26(PART 22)	HighRange	5	OneRB_middle	846.5	Q16	21.46
FDD26(PART 22)	HighRange	5	HalfRB_low	846.5	QPSK	21.21
FDD26(PART 22)	HighRange	5	HalfRB_low	846.5	Q16	20.24
FDD26(PART 22)	HighRange	5	HalfRB_middle	846.5	QPSK	21.21
FDD26(PART 22)	HighRange	5	HalfRB_middle	846.5	Q16	20.23
FDD26(PART 22)	HighRange	5	HalfRB_high	846.5	QPSK	21.07
FDD26(PART 22)	HighRange	5	HalfRB_high	846.5	Q16	20.06
FDD26(PART 22)	HighRange	5	fullRB	846.5	QPSK	21.14
FDD26(PART 22)	HighRange	5	fullRB	846.5	Q16	20.16
FDD26(PART 22)	HighRange	10	OneRB_high	844	QPSK	22.06
FDD26(PART 22)	HighRange	10	OneRB_high	844	Q16	21.26
FDD26(PART 22)	HighRange	10	OneRB_low	844	QPSK	22.24
FDD26(PART 22)	HighRange	10	OneRB_low	844	Q16	21.4
FDD26(PART 22)	HighRange	10	OneRB_middle	844	QPSK	22.31
FDD26(PART 22)	HighRange	10	OneRB_middle	844	Q16	21.53
FDD26(PART 22)	HighRange	10	HalfRB_low	844	QPSK	21.35
FDD26(PART 22)	HighRange	10	HalfRB_low	844	Q16	20.36
FDD26(PART 22)	HighRange	10	HalfRB_middle	844	QPSK	21.33
FDD26(PART 22)	HighRange	10	HalfRB_middle	844	Q16	20.35
FDD26(PART 22)	HighRange	10	HalfRB_high	844	QPSK	21.2
FDD26(PART 22)	HighRange	10	HalfRB_high	844	Q16	20.21
FDD26(PART 22)	HighRange	10	fullRB	844	QPSK	21.24
FDD26(PART 22)	HighRange	10	fullRB	844	Q16	20.26
FDD26(PART 22)	HighRange	15	OneRB_high	841.5	QPSK	22
FDD26(PART 22)	HighRange	15	OneRB_high	841.5	Q16	21.19
FDD26(PART 22)	HighRange	15	OneRB_low	841.5	QPSK	22.15
FDD26(PART 22)	HighRange	15	OneRB_low	841.5	Q16	21.34
FDD26(PART 22)	HighRange	15	OneRB_middle	841.5	QPSK	22.24
FDD26(PART 22)	HighRange	15	OneRB_middle	841.5	Q16	21.45
FDD26(PART 22)	HighRange	15	HalfRB_low	841.5	QPSK	21.34
FDD26(PART 22)	HighRange	15	HalfRB_low	841.5	Q16	21.33
FDD26(PART 22)	HighRange	15	HalfRB_middle	841.5	QPSK	21.33
FDD26(PART 22)	HighRange	15	HalfRB_middle	841.5	Q16	21.34
FDD26(PART 22)	HighRange	15	HalfRB_high	841.5	QPSK	21.17
FDD26(PART 22)	HighRange	15	HalfRB_high	841.5	Q16	21.19
FDD26(PART 22)	HighRange	15	fullRB	841.5	QPSK	21.31
FDD26(PART 22)	HighRange	15	fullRB	841.5	Q16	20.29

LTE BAND 38

LTE B38			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				37775/2572.5	38000/2595	38225/2617.5
QPSK	1	Low	24.00	22.56	22.34	22.17
		Middle		22.51	22.55	22.59
		High		22.38	22.34	22.33
	50%	Low	23.00	21.38	21.43	21.39

		Middle		21.44	21.42	21.44
		High		21.40	21.41	21.45
	100%	/	23.00	21.43	21.42	21.48
16QAM	1	Low	23.00	21.51	21.31	21.27
		Middle		21.49	21.44	21.46
		High		21.34	21.43	21.28
	50%	Low	23.00	20.47	20.50	20.43
		Middle		20.50	20.55	20.50
		High		20.45	20.55	20.38
100%	/	22.00	20.43	20.56	20.40	
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				37800/2575	38000/2595	38200/2615
QPSK	1	Low	24.00	22.58	22.35	22.20
		Middle		22.54	22.60	22.53
		High		22.40	22.38	22.36
	50%	Low	23.00	21.41	21.48	21.43
		Middle		21.47	21.47	21.48
		High		21.42	21.45	21.40
100%	/	23.00	21.47	21.44	21.42	
16QAM	1	Low	23.00	21.43	21.34	21.29
		Middle		21.42	21.48	21.49
		High		21.37	21.45	21.31
	50%	Low	22.00	20.50	20.55	20.47
		Middle		20.52	20.59	20.53
		High		20.48	20.60	20.42
100%	/	22.00	20.46	20.61	20.44	
Modulation	RB	RB Offset	Tune up	15MHz		
				Channel/Frequency(MHz)		
				37825/2577.5	38000/2595	38175/2612.5
QPSK	1	Low	24.00	22.57	22.31	22.18
		Middle		22.52	22.59	22.50
		High		22.37	22.33	22.32
	50%	Low	23.00	21.39	21.44	21.40
		Middle		21.44	21.42	21.44
		High		21.39	21.42	21.46
100%	/	23.00	21.45	21.40	21.47	
16QAM	1	Low	23.00	21.48	21.32	21.27
		Middle		21.40	21.45	21.47
		High		21.34	21.41	21.28
	50%	Low	22.00	20.47	20.53	20.44
		Middle		20.49	20.54	20.49
		High		20.46	20.56	20.39
100%	/	22.00	20.43	20.56	20.40	

Modulation	RB	RB Offset	Tune up	20MHz		
				Channel/Frequency(MHz)		
				37850/2580	38000/2595	38150/2610
QPSK	1	Low	24.00	22.64	22.27	22.15
		Middle		22.51	22.65	22.58
		High		22.35	22.32	22.29
	50%	Low	23.00	21.36	21.49	21.36
		Middle		21.42	21.48	21.41
		High		21.36	21.47	21.42
100%	/	23.00	21.42	21.45	21.43	
16QAM	1	Low	23.00	21.21	21.28	21.22
		Middle		21.46	21.43	21.43
		High		21.32	21.38	21.26
	50%	Low	22.00	20.44	20.49	20.41
		Middle		20.46	20.52	20.46
		High		20.43	20.51	20.35
	100%	/	22.00	20.41	20.52	20.37

LTE band 40(2305-2315MHz)

LTE B40				Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	5MHz			
				Channel/Frequency(MHz)			
				38725/2307.5	38750/2310	38775/2312.5	
QPSK	1	Low	23.50	22.68	22.80	22.71	
		Middle		22.77	22.82	22.77	
		High		22.58	22.63	22.61	
	50%	Low	22.50	21.81	21.82	21.80	
		Middle		21.78	21.78	21.82	
		High		21.79	21.87	21.81	
100%	/	22.50	21.75	21.90	21.60		
16QAM	1	Low	22.50	21.14	21.82	21.70	
		Middle		21.16	21.05	21.12	
		High		21.56	21.71	21.45	
	50%	Low	21.50	20.85	20.92	20.69	
		Middle		20.81	20.91	20.75	
		High		20.86	20.93	20.80	
	100%	/	21.50	20.88	20.98	20.86	
	Modulation	RB	RB Offset	Tune up	10MHz		
					Channel/Frequency(MHz)		
/					38750/2310	/	
QPSK	1	Low	23.50	/	22.76	/	
		Middle		/	22.83	/	
		High		/	22.62	/	
	50%	Low	22.50	/	21.87	/	
		Middle		/	21.84	/	
		High		/			

		High		/	21.82	/
	100%	/	22.50	/	21.85	/
16QAM	1	Low	22.50	/	21.78	/
		Middle		/	21.03	/
		High		/	21.68	/
	50%	Low	21.50	/	20.88	/
		Middle		/	20.89	/
		High		/	20.88	/
	100%	/	21.50	/	20.94	/

LTE band 40(2350-2360MHz)

LTE B40			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				39175/2352.5	39200/2355	39225/2357.5
QPSK	1	Low	23.50	22.88	22.94	22.89
		Middle		22.84	22.91	22.80
		High		22.84	22.98	22.87
	50%	Low	22.50	22.14	22.13	22.07
		Middle		22.10	22.12	22.10
		High		22.12	22.17	22.06
100%	/	22.50	21.91	22.12	22.05	
16QAM	1	Low	22.50	22.08	22.16	22.16
		Middle		22.10	22.04	21.99
		High		22.14	22.11	22.04
	50%	Low	21.50	21.08	21.26	21.07
		Middle		21.17	21.10	21.04
		High		21.14	21.22	21.10
100%	/	21.50	21.21	21.15	21.09	
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				/	39200/2355	/
QPSK	1	Low	23.50	/	22.96	/
		Middle		/	22.99	/
		High		/	22.97	/
	50%	Low	22.50	/	22.18	/
		Middle		/	22.16	/
		High		/	22.12	/
100%	/	22.50	/	22.07	/	
16QAM	1	Low	22.50	/	22.12	/
		Middle		/	22.02	/
		High		/	22.08	/
	50%	Low	21.50	/	21.22	/
		Middle		/	21.08	/
		High		/	21.17	/

	100%	/	21.50	/	21.11	/
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LTE band 41

LTE B41			Maximum Conducted Power (dBm)					
Modulation	RB	RB Offset	Tune up	5MHz				
				Channel/Frequency(MHz)				
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5
QPSK	1	Low	24.00	22.68	22.58	22.74	22.55	22.79
		Middle		23.08	22.98	23.11	23.04	23.05
		High		22.81	22.75	22.80	22.74	22.81
	50%	Low	23.00	21.84	21.79	21.92	21.77	21.97
		Middle		21.87	21.76	22.09	21.94	22.03
		High		21.92	21.72	21.96	21.91	21.82
100%	/	23.00	22.03	21.96	22.18	22.07	22.15	
16QAM	1	Low	23.00	22.17	21.90	21.86	21.83	21.82
		Middle		22.15	21.88	22.12	22.16	22.13
		High		21.99	21.80	21.98	21.89	21.90
	50%	Low	22.00	21.12	21.19	21.04	21.11	21.16
		Middle		21.08	21.26	21.17	21.13	21.22
		High		21.20	21.15	21.15	21.21	21.21
100%	/	22.00	21.23	21.19	21.09	21.15	21.29	
Modulation	RB	RB Offset	Tune up	10MHz				
				Channel/Frequency(MHz)				
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685
QPSK	1	Low	24.00	22.70	22.60	22.75	22.58	22.80
		Middle		23.11	23.01	23.16	23.08	23.10
		High		22.83	22.77	22.84	22.77	22.85
	50%	Low	23.00	21.87	21.82	21.97	21.81	22.02
		Middle		21.90	21.79	22.14	21.98	22.08
		High		21.94	21.74	22.00	21.96	21.86
100%	/	23.00	22.07	22.00	22.20	22.11	22.17	
16QAM	1	Low	23.00	22.19	21.92	21.89	21.85	21.85
		Middle		22.18	21.91	22.16	22.19	22.17
		High		22.02	21.83	22.00	21.92	21.92
	50%	Low	22.00	21.15	21.22	21.09	21.15	21.21
		Middle		21.10	21.28	21.21	21.16	21.26
		High		21.23	21.18	21.20	21.25	21.26
100%	/	22.00	21.26	21.22	21.14	21.19	21.34	

Modulation	RB	RB Offset	Tune up	15MHz				
				Channel/Frequency(MHz)				
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5
QPSK	1	Low	24.00	22.66	22.59	22.71	22.56	22.72
		Middle		23.08	22.99	23.15	23.05	23.05
		High		22.78	22.74	22.79	22.73	22.79
	50%	Low	23.00	21.82	21.80	21.93	21.78	21.93
		Middle		21.85	21.76	22.09	21.94	21.99
		High		21.88	21.71	21.97	21.92	21.78
100%	/	23.00	22.02	21.98	22.16	22.06	22.08	
16QAM	1	Low	23.00	21.97	21.87	21.87	21.83	21.79
		Middle		22.12	21.89	22.13	22.17	22.12
		High		21.97	21.80	21.96	21.89	21.85
	50%	Low	22.00	21.09	21.19	21.07	21.12	21.15
		Middle		21.04	21.25	21.16	21.12	21.19
		High		21.18	21.16	21.16	21.22	21.17
100%	/	22.00	21.21	21.19	21.09	21.15	21.25	
Modulation	RB	RB Offset	Tune up	20MHz				
				Channel/Frequency(MHz)				
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680
QPSK	1	Low	24.00	22.72	22.62	22.73	22.59	22.78
		Middle		23.14	23.04	23.17	23.09	23.11
		High		22.84	22.78	22.84	22.76	22.85
	50%	Low	23.00	21.92	21.87	21.98	21.84	22.03
		Middle		21.95	21.84	22.15	22.01	22.09
		High		21.98	21.78	22.02	21.98	21.88
100%	/	23.00	22.02	21.95	22.11	22.02	22.08	
16QAM	1	Low	23.00	21.97	21.92	21.83	21.78	21.79
		Middle		22.12	21.85	22.11	22.13	22.12
		High		21.97	21.78	21.93	21.87	21.85
	50%	Low	22.00	21.09	21.16	21.03	21.09	21.15
		Middle		21.04	21.22	21.14	21.09	21.19
		High		21.18	21.13	21.11	21.18	21.17
/	/	22.00	21.21	21.17	21.05	21.12	21.25	

6.1.6 EIRP/ERP Results
LTE Band 2- EIRP 24. 232(c)

Limits: ≤33dBm (2W)

LTE Band 2_1.4MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1850.7	22.75	33.00
1880	22.79	33.00
1909.3	22.74	33.00

LTE Band 2_3MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1851.5	22.73	33.00
1880	22.76	33.00
1908.5	22.75	33.00

LTE Band 2_5MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1852.5	22.81	33.00
1880	22.77	33.00
1907.5	22.72	33.00

LTE Band 2_10MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1855	22.77	33.00
1880	22.67	33.00
1905	22.76	33.00

LTE Band 2_15MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1857.5	22.79	33.00
1880	22.80	33.00
1902.5	22.73	33.00

LTE Band 2_20 MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1860	22.81	33.00
1880	22.82	33.00
1900	22.71	33.00

LTE Band 2_1.4MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1850.7	21.87	33.00
1880	22.03	33.00
1909.3	21.98	33.00

LTE Band 2_3MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1851.5	21.90	33.00
1880	22.05	33.00
1908.5	22.01	33.00

LTE Band 2_5MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1852.5	21.87	33.00
1880	22.01	33.00
1907.5	21.98	33.00

LTE Band 2_10MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1855	21.89	33.00
1880	22.04	33.00
1905	22.00	33.00

LTE Band 2_15MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1857.5	21.86	33.00
1880	22.02	33.00
1902.5	21.98	33.00

LTE Band 2_20 MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1860	21.92	33.00
1880	21.98	33.00
1900	21.93	33.00

LTE Band 4- EIRP 27.50(d)

Limits: ≤30dBm (1W)

LTE Band 4_1.4MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1710.7	21.67	30.00
1732.5	21.73	30.00
1754.3	21.73	30.00

LTE Band 4_3MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1711.5	21.65	30.00
1732.5	21.67	30.00
1753.5	21.62	30.00

LTE Band 4_5MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1712.5	21.63	30.00
1732.5	21.64	30.00
1752.5	21.65	30.00

LTE Band 4_10MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1715	21.66	30.00
1732.5	21.72	30.00
1750	21.70	30.00

LTE Band 4_15MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1717.5	21.64	30.00
1732.5	21.69	30.00
1747.5	21.65	30.00

LTE Band 4_20MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1720	21.63	30.00
1732.5	21.74	30.00
1745	21.73	30.00

LTE Band 4_1.4MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1710.7	20.77	30.00
1732.5	20.91	30.00
1754.3	20.89	30.00

LTE Band 4_3MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1711.5	20.79	30.00
1732.5	20.93	30.00
1753.5	20.92	30.00

LTE Band 4_5MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1712.5	20.76	30.00
1732.5	20.89	30.00
1752.5	20.88	30.00

LTE Band 4_10MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1715	20.79	30.00
1732.5	20.92	30.00
1750.5	20.91	30.00

LTE Band 4_15MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1717.5	20.76	30.00
1732.5	20.90	30.00
1747.5	20.88	30.00

LTE Band 4_20MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
1720	20.74	30.00
1732.5	20.86	30.00
1745	20.86	30.00

LTE Band 5- ERP/EIRP 22.913(a)

Limits: ≤38.45dBm (7W)

LTE Band 5_1.4MHz_QPSK

Frequency(MHz)	ERP(dBm)	EIRP(dBm)	Limit(dBm)
824.70	18.64	20.79	38.45
836.50	18.66	20.81	38.45
848.30	18.59	20.74	38.45

LTE Band 5_3MHz_QPSK

Frequency(MHz)	ERP(dBm)	EIRP(dBm)	Limit(dBm)
825.50	18.66	20.81	38.45
836.50	18.63	20.78	38.45
847.50	18.21	20.36	38.45

LTE Band 5_5MHz_QPSK

Frequency(MHz)	ERP(dBm)	EIRP(dBm)	Limit(dBm)
826.50	18.63	20.78	38.45
836.50	18.65	20.80	38.45
846.50	18.18	20.33	38.45

LTE Band 5_10MHz_QPSK

Frequency(MHz)	ERP(dBm)	EIRP(dBm)	Limit(dBm)
829.00	18.61	20.76	38.45
836.50	18.67	20.82	38.45
844.00	18.16	20.31	38.45

LTE Band 5_1.4MHz_16QAM

Frequency(MHz)	ERP(dBm)	EIRP(dBm)	Limit(dBm)
824.70	17.73	19.88	38.45
836.50	17.72	19.87	38.45
848.30	17.73	19.88	38.45

LTE Band 5_3MHz_16QAM

Frequency(MHz)	ERP(dBm)	EIRP(dBm)	Limit(dBm)
825.50	17.75	19.90	38.45
836.50	17.75	19.90	38.45
847.50	17.75	19.90	38.45

LTE Band 5_5MHz_16QAM

Frequency(MHz)	ERP(dBm)	EIRP(dBm)	Limit(dBm)
826.50	17.72	19.87	38.45
836.50	17.71	19.86	38.45
846.50	17.73	19.88	38.45

LTE Band 5_10MHz_16QAM

Frequency(MHz)	ERP(dBm)	EIRP(dBm)	Limit(dBm)
829.00	17.70	19.85	38.45
836.50	17.69	19.84	38.45
844.00	17.68	19.83	38.45

LTE Band 7- EIRP 27.50(h)(2)
Limits: ≤33 dBm (2W)
LTE Band 7_5MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2502.5	22.93	33.00
2535	22.86	33.00
2567.5	22.87	33.00

LTE Band 7_10MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2505	22.86	33.00
2535	22.91	33.00
2565	22.91	33.00

LTE Band 7_15MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2507.5	22.94	33.00
2535	22.90	33.00
2562.5	22.88	33.00

LTE Band 7_20MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2510	22.93	33.00
2535	22.96	33.00
2560	22.86	33.00

LTE Band 7_5MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2502.5	21.89	33.00
2535	21.93	33.00
2567.5	21.84	33.00

LTE Band 7_10MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2505	21.91	33.00
2535	21.97	33.00
2565	21.87	33.00

LTE Band 7_15MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2507.5	21.88	33.00
2535	21.94	33.00
2562.5	21.85	33.00

LTE Band 7_20MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2510	21.84	33.00
2535	21.92	33.00
2560	21.81	33.00

LTE Band 26_Part22- ERP 22.913(a) (5)
Limits: ≤38.45dBm (7W)

Band :	Range :	BandWidth :	RB size/offset :	Frequency (MHz) :	Modulation :	ERP
FDD26(PART 22)	LowRange	1.4	OneRB_high	824.7	QPSK	18.47
FDD26(PART 22)	LowRange	1.4	OneRB_high	824.7	Q16	17.64
FDD26(PART 22)	LowRange	1.4	OneRB_low	824.7	QPSK	18.46
FDD26(PART 22)	LowRange	1.4	OneRB_low	824.7	Q16	17.63
FDD26(PART 22)	LowRange	1.4	OneRB_middle	824.7	QPSK	18.63
FDD26(PART 22)	LowRange	1.4	OneRB_middle	824.7	Q16	17.82
FDD26(PART 22)	LowRange	1.4	HalfRB_low	824.7	QPSK	18.57
FDD26(PART 22)	LowRange	1.4	HalfRB_low	824.7	Q16	17.51
FDD26(PART 22)	LowRange	1.4	HalfRB_middle	824.7	QPSK	18.56
FDD26(PART 22)	LowRange	1.4	HalfRB_middle	824.7	Q16	17.56
FDD26(PART 22)	LowRange	1.4	HalfRB_high	824.7	QPSK	18.53
FDD26(PART 22)	LowRange	1.4	HalfRB_high	824.7	Q16	17.64
FDD26(PART 22)	LowRange	1.4	fullRB	824.7	QPSK	17.53
FDD26(PART 22)	LowRange	1.4	fullRB	824.7	Q16	16.53
FDD26(PART 22)	LowRange	3	OneRB_high	825.5	QPSK	18.46
FDD26(PART 22)	LowRange	3	OneRB_high	825.5	Q16	17.64
FDD26(PART 22)	LowRange	3	OneRB_low	825.5	QPSK	18.51
FDD26(PART 22)	LowRange	3	OneRB_low	825.5	Q16	17.65
FDD26(PART 22)	LowRange	3	OneRB_middle	825.5	QPSK	18.53
FDD26(PART 22)	LowRange	3	OneRB_middle	825.5	Q16	17.7
FDD26(PART 22)	LowRange	3	HalfRB_low	825.5	QPSK	17.51
FDD26(PART 22)	LowRange	3	HalfRB_low	825.5	Q16	16.51
FDD26(PART 22)	LowRange	3	HalfRB_middle	825.5	QPSK	17.51
FDD26(PART 22)	LowRange	3	HalfRB_middle	825.5	Q16	16.5
FDD26(PART 22)	LowRange	3	HalfRB_high	825.5	QPSK	17.49
FDD26(PART 22)	LowRange	3	HalfRB_high	825.5	Q16	16.5
FDD26(PART 22)	LowRange	3	fullRB	825.5	QPSK	17.48
FDD26(PART 22)	LowRange	3	fullRB	825.5	Q16	16.47
FDD26(PART 22)	LowRange	5	OneRB_high	826.5	QPSK	18.38
FDD26(PART 22)	LowRange	5	OneRB_high	826.5	Q16	17.66
FDD26(PART 22)	LowRange	5	OneRB_low	826.5	QPSK	18.39
FDD26(PART 22)	LowRange	5	OneRB_low	826.5	Q16	17.65
FDD26(PART 22)	LowRange	5	OneRB_middle	826.5	QPSK	18.54
FDD26(PART 22)	LowRange	5	OneRB_middle	826.5	Q16	17.78
FDD26(PART 22)	LowRange	5	HalfRB_low	826.5	QPSK	17.47
FDD26(PART 22)	LowRange	5	HalfRB_low	826.5	Q16	16.52
FDD26(PART 22)	LowRange	5	HalfRB_middle	826.5	QPSK	17.48
FDD26(PART 22)	LowRange	5	HalfRB_middle	826.5	Q16	16.53
FDD26(PART 22)	LowRange	5	HalfRB_high	826.5	QPSK	17.43
FDD26(PART 22)	LowRange	5	HalfRB_high	826.5	Q16	16.49
FDD26(PART 22)	LowRange	5	fullRB	826.5	QPSK	17.45
FDD26(PART 22)	LowRange	5	fullRB	826.5	Q16	16.47
FDD26(PART 22)	LowRange	10	OneRB_high	829	QPSK	18.46
FDD26(PART 22)	LowRange	10	OneRB_high	829	Q16	17.58
FDD26(PART 22)	LowRange	10	OneRB_low	829	QPSK	18.46
FDD26(PART 22)	LowRange	10	OneRB_low	829	Q16	17.64
FDD26(PART 22)	LowRange	10	OneRB_middle	829	QPSK	18.61
FDD26(PART 22)	LowRange	10	OneRB_middle	829	Q16	17.8

FDD26(PART 22)	LowRange	10	HalfRB_low	829	QPSK	17.58
FDD26(PART 22)	LowRange	10	HalfRB_low	829	Q16	16.61
FDD26(PART 22)	LowRange	10	HalfRB_middle	829	QPSK	17.58
FDD26(PART 22)	LowRange	10	HalfRB_middle	829	Q16	16.63
FDD26(PART 22)	LowRange	10	HalfRB_high	829	QPSK	17.51
FDD26(PART 22)	LowRange	10	HalfRB_high	829	Q16	16.54
FDD26(PART 22)	LowRange	10	fullRB	829	QPSK	17.52
FDD26(PART 22)	LowRange	10	fullRB	829	Q16	16.57
FDD26(PART 22)	LowRange	15	OneRB_high	831.5	QPSK	18.4
FDD26(PART 22)	LowRange	15	OneRB_high	831.5	Q16	17.57
FDD26(PART 22)	LowRange	15	OneRB_low	831.5	QPSK	18.43
FDD26(PART 22)	LowRange	15	OneRB_low	831.5	Q16	17.6
FDD26(PART 22)	LowRange	15	OneRB_middle	831.5	QPSK	18.47
FDD26(PART 22)	LowRange	15	OneRB_middle	831.5	Q16	17.65
FDD26(PART 22)	LowRange	15	HalfRB_low	831.5	QPSK	17.61
FDD26(PART 22)	LowRange	15	HalfRB_low	831.5	Q16	17.6
FDD26(PART 22)	LowRange	15	HalfRB_middle	831.5	QPSK	17.6
FDD26(PART 22)	LowRange	15	HalfRB_middle	831.5	Q16	17.61
FDD26(PART 22)	LowRange	15	HalfRB_high	831.5	QPSK	17.59
FDD26(PART 22)	LowRange	15	HalfRB_high	831.5	Q16	17.57
FDD26(PART 22)	LowRange	15	fullRB	831.5	QPSK	17.53
FDD26(PART 22)	LowRange	15	fullRB	831.5	Q16	16.51
FDD26(PART 22)	MidRange	1.4	OneRB_high	836.5	QPSK	18.38
FDD26(PART 22)	MidRange	1.4	OneRB_high	836.5	Q16	17.43
FDD26(PART 22)	MidRange	1.4	OneRB_low	836.5	QPSK	18.42
FDD26(PART 22)	MidRange	1.4	OneRB_low	836.5	Q16	17.46
FDD26(PART 22)	MidRange	1.4	OneRB_middle	836.5	QPSK	18.56
FDD26(PART 22)	MidRange	1.4	OneRB_middle	836.5	Q16	17.62
FDD26(PART 22)	MidRange	1.4	HalfRB_low	836.5	QPSK	18.54
FDD26(PART 22)	MidRange	1.4	HalfRB_low	836.5	Q16	17.69
FDD26(PART 22)	MidRange	1.4	HalfRB_middle	836.5	QPSK	18.51
FDD26(PART 22)	MidRange	1.4	HalfRB_middle	836.5	Q16	17.7
FDD26(PART 22)	MidRange	1.4	HalfRB_high	836.5	QPSK	18.53
FDD26(PART 22)	MidRange	1.4	HalfRB_high	836.5	Q16	17.71
FDD26(PART 22)	MidRange	1.4	fullRB	836.5	QPSK	17.51
FDD26(PART 22)	MidRange	1.4	fullRB	836.5	Q16	16.51
FDD26(PART 22)	MidRange	3	OneRB_high	836.5	QPSK	18.45
FDD26(PART 22)	MidRange	3	OneRB_high	836.5	Q16	17.98
FDD26(PART 22)	MidRange	3	OneRB_low	836.5	QPSK	18.49
FDD26(PART 22)	MidRange	3	OneRB_low	836.5	Q16	18.02
FDD26(PART 22)	MidRange	3	OneRB_middle	836.5	QPSK	18.45
FDD26(PART 22)	MidRange	3	OneRB_middle	836.5	Q16	18
FDD26(PART 22)	MidRange	3	HalfRB_low	836.5	QPSK	17.48
FDD26(PART 22)	MidRange	3	HalfRB_low	836.5	Q16	16.67
FDD26(PART 22)	MidRange	3	HalfRB_middle	836.5	QPSK	17.48
FDD26(PART 22)	MidRange	3	HalfRB_middle	836.5	Q16	16.65
FDD26(PART 22)	MidRange	3	HalfRB_high	836.5	QPSK	17.48
FDD26(PART 22)	MidRange	3	HalfRB_high	836.5	Q16	16.66
FDD26(PART 22)	MidRange	3	fullRB	836.5	QPSK	17.51
FDD26(PART 22)	MidRange	3	fullRB	836.5	Q16	16.6
FDD26(PART 22)	MidRange	5	OneRB_high	836.5	QPSK	18.42
FDD26(PART 22)	MidRange	5	OneRB_high	836.5	Q16	17.67

FDD26(PART 22)	MidRange	5	OneRB_low	836.5	QPSK	18.4
FDD26(PART 22)	MidRange	5	OneRB_low	836.5	Q16	17.63
FDD26(PART 22)	MidRange	5	OneRB_middle	836.5	QPSK	18.5
FDD26(PART 22)	MidRange	5	OneRB_middle	836.5	Q16	17.77
FDD26(PART 22)	MidRange	5	HalfRB_low	836.5	QPSK	17.5
FDD26(PART 22)	MidRange	5	HalfRB_low	836.5	Q16	16.55
FDD26(PART 22)	MidRange	5	HalfRB_middle	836.5	QPSK	17.51
FDD26(PART 22)	MidRange	5	HalfRB_middle	836.5	Q16	16.53
FDD26(PART 22)	MidRange	5	HalfRB_high	836.5	QPSK	17.47
FDD26(PART 22)	MidRange	5	HalfRB_high	836.5	Q16	16.5
FDD26(PART 22)	MidRange	5	fullRB	836.5	QPSK	17.53
FDD26(PART 22)	MidRange	5	fullRB	836.5	Q16	16.52
FDD26(PART 22)	MidRange	10	OneRB_high	836.5	QPSK	18.47
FDD26(PART 22)	MidRange	10	OneRB_high	836.5	Q16	18.03
FDD26(PART 22)	MidRange	10	OneRB_low	836.5	QPSK	18.46
FDD26(PART 22)	MidRange	10	OneRB_low	836.5	Q16	18.03
FDD26(PART 22)	MidRange	10	OneRB_middle	836.5	QPSK	18.61
FDD26(PART 22)	MidRange	10	OneRB_middle	836.5	Q16	18.17
FDD26(PART 22)	MidRange	10	HalfRB_low	836.5	QPSK	17.54
FDD26(PART 22)	MidRange	10	HalfRB_low	836.5	Q16	16.63
FDD26(PART 22)	MidRange	10	HalfRB_middle	836.5	QPSK	17.57
FDD26(PART 22)	MidRange	10	HalfRB_middle	836.5	Q16	16.62
FDD26(PART 22)	MidRange	10	HalfRB_high	836.5	QPSK	17.45
FDD26(PART 22)	MidRange	10	HalfRB_high	836.5	Q16	16.53
FDD26(PART 22)	MidRange	10	fullRB	836.5	QPSK	17.56
FDD26(PART 22)	MidRange	10	fullRB	836.5	Q16	16.59
FDD26(PART 22)	MidRange	15	OneRB_high	836.5	QPSK	18.38
FDD26(PART 22)	MidRange	15	OneRB_high	836.5	Q16	17.94
FDD26(PART 22)	MidRange	15	OneRB_low	836.5	QPSK	18.39
FDD26(PART 22)	MidRange	15	OneRB_low	836.5	Q16	17.95
FDD26(PART 22)	MidRange	15	OneRB_middle	836.5	QPSK	18.46
FDD26(PART 22)	MidRange	15	OneRB_middle	836.5	Q16	18.03
FDD26(PART 22)	MidRange	15	HalfRB_low	836.5	QPSK	17.98
FDD26(PART 22)	MidRange	15	HalfRB_low	836.5	Q16	17.97
FDD26(PART 22)	MidRange	15	HalfRB_middle	836.5	QPSK	17.96
FDD26(PART 22)	MidRange	15	HalfRB_middle	836.5	Q16	17.97
FDD26(PART 22)	MidRange	15	HalfRB_high	836.5	QPSK	17.93
FDD26(PART 22)	MidRange	15	HalfRB_high	836.5	Q16	17.96
FDD26(PART 22)	MidRange	15	fullRB	836.5	QPSK	17.52
FDD26(PART 22)	MidRange	15	fullRB	836.5	Q16	16.51
FDD26(PART 22)	HighRange	1.4	OneRB_high	848.3	QPSK	18.3
FDD26(PART 22)	HighRange	1.4	OneRB_high	848.3	Q16	17.45
FDD26(PART 22)	HighRange	1.4	OneRB_low	848.3	QPSK	18.28
FDD26(PART 22)	HighRange	1.4	OneRB_low	848.3	Q16	17.46
FDD26(PART 22)	HighRange	1.4	OneRB_middle	848.3	QPSK	18.46
FDD26(PART 22)	HighRange	1.4	OneRB_middle	848.3	Q16	17.63
FDD26(PART 22)	HighRange	1.4	HalfRB_low	848.3	QPSK	18.43
FDD26(PART 22)	HighRange	1.4	HalfRB_low	848.3	Q16	17.36
FDD26(PART 22)	HighRange	1.4	HalfRB_middle	848.3	QPSK	18.38
FDD26(PART 22)	HighRange	1.4	HalfRB_middle	848.3	Q16	17.34
FDD26(PART 22)	HighRange	1.4	HalfRB_high	848.3	QPSK	18.36
FDD26(PART 22)	HighRange	1.4	HalfRB_high	848.3	Q16	17.36

FDD26(PART 22)	HighRange	1.4	fullRB	848.3	QPSK	17.37
FDD26(PART 22)	HighRange	1.4	fullRB	848.3	Q16	16.38
FDD26(PART 22)	HighRange	3	OneRB_high	847.5	QPSK	18.29
FDD26(PART 22)	HighRange	3	OneRB_high	847.5	Q16	17.48
FDD26(PART 22)	HighRange	3	OneRB_low	847.5	QPSK	18.34
FDD26(PART 22)	HighRange	3	OneRB_low	847.5	Q16	17.58
FDD26(PART 22)	HighRange	3	OneRB_middle	847.5	QPSK	18.37
FDD26(PART 22)	HighRange	3	OneRB_middle	847.5	Q16	17.53
FDD26(PART 22)	HighRange	3	HalfRB_low	847.5	QPSK	17.4
FDD26(PART 22)	HighRange	3	HalfRB_low	847.5	Q16	16.39
FDD26(PART 22)	HighRange	3	HalfRB_middle	847.5	QPSK	17.38
FDD26(PART 22)	HighRange	3	HalfRB_middle	847.5	Q16	16.38
FDD26(PART 22)	HighRange	3	HalfRB_high	847.5	QPSK	17.3
FDD26(PART 22)	HighRange	3	HalfRB_high	847.5	Q16	16.32
FDD26(PART 22)	HighRange	3	fullRB	847.5	QPSK	17.37
FDD26(PART 22)	HighRange	3	fullRB	847.5	Q16	16.36
FDD26(PART 22)	HighRange	5	OneRB_high	846.5	QPSK	18.21
FDD26(PART 22)	HighRange	5	OneRB_high	846.5	Q16	17.48
FDD26(PART 22)	HighRange	5	OneRB_low	846.5	QPSK	18.34
FDD26(PART 22)	HighRange	5	OneRB_low	846.5	Q16	17.61
FDD26(PART 22)	HighRange	5	OneRB_middle	846.5	QPSK	18.41
FDD26(PART 22)	HighRange	5	OneRB_middle	846.5	Q16	17.68
FDD26(PART 22)	HighRange	5	HalfRB_low	846.5	QPSK	17.43
FDD26(PART 22)	HighRange	5	HalfRB_low	846.5	Q16	16.46
FDD26(PART 22)	HighRange	5	HalfRB_middle	846.5	QPSK	17.43
FDD26(PART 22)	HighRange	5	HalfRB_middle	846.5	Q16	16.45
FDD26(PART 22)	HighRange	5	HalfRB_high	846.5	QPSK	17.29
FDD26(PART 22)	HighRange	5	HalfRB_high	846.5	Q16	16.28
FDD26(PART 22)	HighRange	5	fullRB	846.5	QPSK	17.36
FDD26(PART 22)	HighRange	5	fullRB	846.5	Q16	16.38
FDD26(PART 22)	HighRange	10	OneRB_high	844	QPSK	18.28
FDD26(PART 22)	HighRange	10	OneRB_high	844	Q16	17.48
FDD26(PART 22)	HighRange	10	OneRB_low	844	QPSK	18.46
FDD26(PART 22)	HighRange	10	OneRB_low	844	Q16	17.62
FDD26(PART 22)	HighRange	10	OneRB_middle	844	QPSK	18.53
FDD26(PART 22)	HighRange	10	OneRB_middle	844	Q16	17.75
FDD26(PART 22)	HighRange	10	HalfRB_low	844	QPSK	17.57
FDD26(PART 22)	HighRange	10	HalfRB_low	844	Q16	16.58
FDD26(PART 22)	HighRange	10	HalfRB_middle	844	QPSK	17.55
FDD26(PART 22)	HighRange	10	HalfRB_middle	844	Q16	16.57
FDD26(PART 22)	HighRange	10	HalfRB_high	844	QPSK	17.42
FDD26(PART 22)	HighRange	10	HalfRB_high	844	Q16	16.43
FDD26(PART 22)	HighRange	10	fullRB	844	QPSK	17.46
FDD26(PART 22)	HighRange	10	fullRB	844	Q16	16.48
FDD26(PART 22)	HighRange	15	OneRB_high	841.5	QPSK	18.22
FDD26(PART 22)	HighRange	15	OneRB_high	841.5	Q16	17.41
FDD26(PART 22)	HighRange	15	OneRB_low	841.5	QPSK	18.37
FDD26(PART 22)	HighRange	15	OneRB_low	841.5	Q16	17.56
FDD26(PART 22)	HighRange	15	OneRB_middle	841.5	QPSK	18.46
FDD26(PART 22)	HighRange	15	OneRB_middle	841.5	Q16	17.67
FDD26(PART 22)	HighRange	15	HalfRB_low	841.5	QPSK	17.56
FDD26(PART 22)	HighRange	15	HalfRB_low	841.5	Q16	17.55

FDD26(PART 22)	HighRange	15	HalfRB_middle	841.5	QPSK	17.55
FDD26(PART 22)	HighRange	15	HalfRB_middle	841.5	Q16	17.56
FDD26(PART 22)	HighRange	15	HalfRB_high	841.5	QPSK	17.39
FDD26(PART 22)	HighRange	15	HalfRB_high	841.5	Q16	17.41
FDD26(PART 22)	HighRange	15	fullRB	841.5	QPSK	17.53
FDD26(PART 22)	HighRange	15	fullRB	841.5	Q16	16.51

LTE Band 38- EIRP 27.50(h)(2)
Limits: ≤33 dBm (2W)

LTE Band 38_5MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2572.5	24.10	33.00
2595	24.09	33.00
2617.5	24.13	33.00

LTE Band 38_10MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2575	24.12	33.00
2595	24.14	33.00
2615	24.07	33.00

LTE Band 38_15MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2577.5	24.11	33.00
2595	24.13	33.00
2612.5	24.04	33.00

LTE Band 38_20MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2580	24.18	33.00
2595	24.19	33.00
2610	24.12	33.00

LTE Band 38_5MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2572.5	23.05	33.00
2595	22.98	33.00
2617.5	23.00	33.00

LTE Band 38_10MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2575	22.97	33.00
2595	23.02	33.00
2615	23.03	33.00

LTE Band 38_15MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2577.5	23.02	33.00
2595	22.99	33.00
2612.5	23.01	33.00

LTE Band 38_20MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2580	23.00	33.00
2595	22.97	33.00
2610	22.97	33.00

LTE Band 40(2305-2315)- EIRP 27.50(h)(2)

Limits: EIRP \leq 24dBm/5MHz

NOTE:For 10MHz mode, the channel power is sum of 10MHz bandwidth, the result is less then 24dBm, so in any 5MHz bandwidth, it will not exceed the limit.

LTE Band 40(2305-2315)_5MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm/5MHz)
2307.5	23.78	24.00
2310	23.83	24.00
2312.5	23.78	24.00

LTE Band 40(2305-2315)_10MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm/5MHz)
2310	23.84	24.00

LTE Band 40(2305-2315)_5MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm/5MHz)
2307.5	22.57	24.00
2310	22.83	24.00
2312.5	22.71	24.00

LTE Band 40(2305-2315)_10MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm/5MHz)
2310	22.79	24.00

LTE Band 40(2350-2360)- EIRP 27.50(h)(2)

Limits: EIRP \leq 24dBm/5MHz

NOTE:For 10MHz mode, the channel power is sum of 10MHz bandwidth, the result is less then 24dBm, so in any 5MHz bandwidth, it will not exceed the limit.

LTE Band 40(2350-2360)_5MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm/5MHz)
2352.5	23.89	24.00
2355	23.99	24.00
2357.5	23.90	24.00

LTE Band 40(2350-2360)_10MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm/5MHz)
2355	24.00	24.00

LTE Band 40(2350-2360)_5MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm/5MHz)
2352.5	23.15	24.00
2355	23.17	24.00
2357.5	23.17	24.00

LTE Band 40(2350-2360)_10MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm/5MHz)
2355	23.13	24.00

LTE Band 41- EIRP 27.50(h)(2)
Limits: ≤33 dBm (2W)

LTE Band 41_5MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2498.5	25.49	33.00
2593	25.52	33.00
2687.5	25.46	33.00

LTE Band 41_10MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2501	25.52	33.00
2593	25.57	33.00
2685	25.51	33.00

LTE Band 41_15MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2503.5	25.49	33.00
2593	25.56	33.00
2682.5	25.46	33.00

LTE Band 41_20MHz_QPSK

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2506	25.55	33.00
2593	25.58	33.00
2680	25.52	33.00

LTE Band 41_5MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2498.5	24.58	33.00
2593	24.53	33.00
2687.5	24.54	33.00

LTE Band 41_10MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2501	24.60	33.00
2593	24.57	33.00
2685	24.58	33.00

LTE Band 41_15MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2503.5	24.53	33.00
2593	24.54	33.00
2682.5	24.53	33.00

LTE Band 41_20MHz_16QAM

Frequency(MHz)	EIRP(dBm)	Limit(dBm)
2506	24.53	33.00

2593	24.52	33.00
2680	24.53	33.00

6.2 Emission Limit

6.2.1 Measurement Limit

According to KDB 971168, a relaxation of the reference bandwidth is often provided for measurements within a specified frequency range at the edge of the authorized frequency block/band. This is often implemented by permitting the use of a narrower RBW (typically limited to a minimum RBW of 1% of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth.

FCC §22.917(a) Out of band emissions. 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.

FCC §24.238(a) Out of band emissions. 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.

FCC §27.53(a) For mobile and portable stations operating in the 2305–2315 MHz and 2350–2360 MHz bands:

- (i) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz;
- (iii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log(P)$ dB above 2365 MHz.

FCC §27.53(h) (1) General protection levels. Except as otherwise specified below, for operations in the 1695–1710 MHz, 1710–1755 MHz, 1755–1780 MHz, 1915–1920 MHz, 1995–2000 MHz, 2000–2020 MHz, 2110–2155 MHz, 2155–2180 MHz, and 2180–2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

FCC §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.

FCC §27.53(h):

AWS emission limits —

- (1) General protection levels. Except as otherwise specified below, for operations in the 1695–1710 MHz, 1710–1755 MHz, 1755–1780 MHz, 1915–1920 MHz, 1995–2000 MHz, 2000–2020 MHz, 2110–2155 MHz, 2155–2180 MHz, and 2180–2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.
- (2) Additional protection levels. Notwithstanding the foregoing paragraph (h)(1) of this section:
- (i) Operations in the 2180–2200 MHz band are subject to the out-of-band emission requirements set forth in § 27.1134 for the protection of federal government operations operating in the 2200–2290 MHz band.
 - (ii) For operations in the 2000–2020 MHz band, the power of any emissions below 2000 MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10 \log_{10}(P)$ dB.
 - (iii) For operations in the 1915–1920 MHz band, the power of any emission between 1930–1995 MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10 \log_{10}(P)$ dB.
 - (iv) For operations in the 1995–2000 MHz band, the power of any emission between 2005–2020 MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10 \log_{10}(P)$ dB.

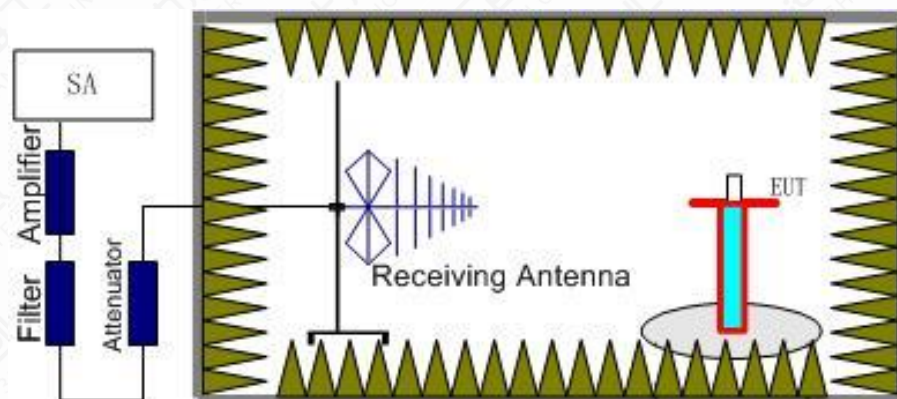
6.2.2 Method of Measurement

The measurements procedures in TIA-603E-2016 are used. This measurement is carried out in fully-anechoic chamber FAC-3.

The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz as outlined in Part 22.917(a)/24.238(a)/27.53(g)/27.53(h)/27.53(m)(4). The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of the LTE Bands 2/4/5/7/26/38/40/41.

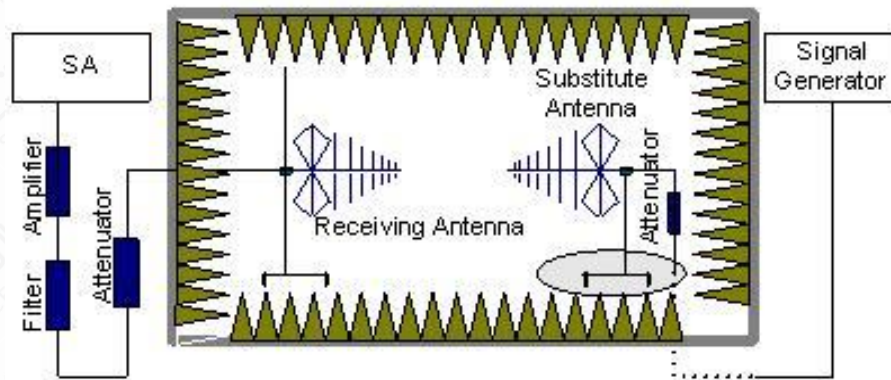
The procedure of radiated spurious emissions is as follows:

1. Below 1 GHz, EUT was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna. Above 1 GHz, EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).

3.The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna. Adjust the level of the signal generator output until the value of the receiver reaches the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4.The Path loss (P_{cl}) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (G_a) should be recorded after test.

An amplifier should be connected in for the test.

The Path loss (P_{cl}) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} - P_{cl} + G_a$$

5.This value is EIRP since the measurement is calibrated using an antenna of known gain (unit: dBi) and known input power.

6.ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

6.2.3 Measurement Results

Radiated emissions measurements were made at the upper, middle, and lower carrier frequencies of the LTE Bands.It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the LTE Bands. Into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this. The evaluated frequency range is from 30MHz to ten times the main frequency signal. The final data result takes the worst pattern data and places it in the report.

Band	BW (MHz)	Low Freq. (MHz)	Mid Freq. (MHz)	High Freq. (MHz)	Result
Band 2	1.4	1850.7	1880	1909.3	PASS
	3	1851.5	1880	1908.5	PASS
	5	1852.5	1880	1907.5	PASS
	10	1855	1880	1905	PASS
	15	1857.5	1880	1902.5	PASS

Band	BW (MHz)	Low Freq. (MHz)	Mid Freq. (MHz)	High Freq. (MHz)	Result
	20	1860	1880	1900	PASS
Band 4	1.4	1710.7	1732.5	1754.3	PASS
	3	1711.5	1732.5	1753.5	PASS
	5	1712.5	1732.5	1752.5	PASS
	10	1715	1732.5	1750	PASS
	15	1717.5	1732.5	1747.5	PASS
	20	1720	1732.5	1745	PASS
Band 5	1.4	824.7	836.5	848.3	PASS
	3	825.5	836.5	847.5	PASS
	5	826.5	836.5	846.5	PASS
	10	829	836.5	844	PASS
Band 7	5	2502.5	2535	2567.5	PASS
	10	2505	2535	2565	PASS
	15	2507.5	2535	2562.5	PASS
	20	2510	2535	2560	PASS
Band 26 (824-849MHz)	1.4	824.7	836.5	848.3	PASS
	3	825.5	836.5	847.5	PASS
	5	826.5	836.5	846.5	PASS
	10	829	836.5	844	PASS
	15	831.5	836.5	841.5	PASS
Band 38	5	2572.5	2595	2617.5	PASS
	10	2575	2595	2615	PASS
	15	2577.5	2595	2612.5	PASS
	20	2580	2595	2610	PASS
Band 40A (2305-2315MHz)	5	2307.5	2310	2312.5	PASS
	10	/	2310	/	PASS
Band 40B (2350-2360MHz)	5	2352.5	2355	2357.5	PASS
	10	/	2355	/	PASS
Band 41	5	2498.5	2593	2687.5	PASS
	10	2501	2593	2685	PASS
	15	2503.5	2593	2682.5	PASS
	20	2506	2593	2680	PASS

Only the worst mode data is provided

Mainly Supply

RSE-LTE2-QPSK-1.4MHz-1RB_low-Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
3701.2	-49.2	6.6	7.9	-47.9	-13	34.90	H
5552.0	-46.13	8.2	9.8	-44.53	-13	31.53	H
7402.8	-44.82	9.7	11.6	-42.92	-13	29.92	H
9253.6	-47.03	10.7	12.7	-45.03	-13	32.03	H

11071.4	-47.24	12.1	12.3	-47.04	-13	34.04	V
12936.2	-44.58	13.0	12.3	-45.28	-13	32.28	V

RSE-LTE2-QPSK-1.4MHz-1RB_low-Mid Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
3759.6	-48.74	6.6	7.9	-47.44	-13	34.44	H
5640.0	-52.68	8.3	10.2	-50.78	-13	37.78	V
7520.0	-44.06	9.7	11.6	-42.16	-13	29.16	H
9398.8	-48.05	10.7	12.7	-46.05	-13	33.05	H
11261.8	-47.72	12.1	12.3	-47.52	-13	34.52	H
13202.2	-45.46	13.0	12.3	-46.16	-13	33.16	V

RSE-LTE2-QPSK-1.4MHz-1RB_low-High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
3818.4	-40.87	6.7	7.9	-39.67	-13	26.67	H
5728.4	-48.39	8.5	10.2	-46.69	-13	33.69	H
7636.8	-40.9	9.7	11.8	-38.8	-13	25.80	H
9546.4	-45.28	10.7	12.7	-43.28	-13	30.28	H
11483.0	-47.06	12.3	12.3	-47.06	-13	34.06	V
13364.6	-39.38	13.7	12.3	-40.78	-13	27.78	H

RSE-LTE4-QPSK-1.4MHz-1RB_low-Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
3421.2	-45.35	6.3	7.8	-43.85	-13	30.85	H
4804.8	-52.81	7.6	9.0	-51.41	-13	38.41	H
6842.8	-50.01	9.2	10.9	-48.31	-13	35.31	H
8553.6	-40.73	10.3	12.6	-38.43	-13	25.43	H
11215.6	-45.71	12.1	12.3	-45.51	-13	32.51	V
13686.6	-41.17	13.9	12.3	-42.77	-13	29.77	H

RSE-LTE4-QPSK-1.4MHz-1RB_low-Mid Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
3462.4	-50.43	6.4	7.8	-49.03	-13	36.03	V
4547.2	-51.43	7.4	8.7	-50.13	-13	37.13	H

6588.0	-51.17	9.1	10.6	-49.67	-13	36.67	V
8659.2	-43.85	10.3	12.7	-41.45	-13	28.45	H
11497.0	-45.64	12.3	12.3	-45.64	-13	32.64	V
15748.8	-38.61	14.5	12.3	-40.81	-13	27.81	H

RSE-LTE4-QPSK-1.4MHz-1RB_low-High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
3508.4	-49.4	6.4	7.8	-48	-13	35.00	V
4921.6	-52.73	7.7	9.6	-50.83	-13	37.83	H
7016.8	-43.8	9.3	11.1	-42	-13	29.00	H
8771.6	-35.67	10.4	12.7	-33.37	-13	20.37	H
11317.8	-47.09	12.1	12.3	-46.89	-13	33.90	H
14033.8	-38.09	13.7	12.3	-39.49	-13	26.49	H

RSE-LTE5-QPSK-1.4MHz-1RB_low-Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
2673.1	-38.75	5.5	6.1	-38.15	-13	25.15	H
3694.0	-53.38	6.6	7.9	-52.08	-13	39.08	V
4532.8	-52.29	7.4	8.7	-50.99	-13	37.99	V
5639.2	-54.34	8.3	10.2	-52.44	-13	39.44	H
6979.6	-52.81	9.3	11.1	-51.01	-13	38.01	V
9270.4	-50.24	10.7	12.7	-48.24	-13	35.24	V

RSE-LTE5-QPSK-1.4MHz-1RB_low-Mid Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
2509.6	-35	5.4	5.6	-34.8	-13	21.80	H
3174.0	-52.14	6.0	6.9	-51.24	-13	38.24	H
4182.0	-52.71	7.0	8.9	-50.81	-13	37.81	H
5586.8	-53.38	8.3	9.8	-51.88	-13	38.88	H
6799.6	-53.11	9.2	10.9	-51.41	-13	38.41	H
8339.5	-52.66	10.1	12.4	-50.36	-13	37.36	V

RSE-LTE5-QPSK-1.4MHz-1RB_low-High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
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1696.4	-46.67	4.5	4.7	-46.47	-13	33.47	H
3228.0	-52.29	6.1	6.9	-51.49	-13	38.49	V
4241.2	-52.8	7.1	8.9	-51	-13	38.00	H
6097.2	-52.97	8.7	10.2	-51.47	-13	38.47	H
7723.6	-53.02	9.8	11.8	-51.02	-13	38.02	V
9556.6	-51.15	10.8	12.7	-49.25	-13	36.25	H

RSE-LTE7-QPSK-5MHz-1RB_low-Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
3648.4	-51.32	6.6	7.9	-50.02	-25	25.02	H
5094.4	-47.37	7.9	9.6	-45.67	-25	20.67	H
7507.2	-35.71	9.7	11.6	-33.81	-25	8.81	H
10199.2	-45.85	11.3	12.5	-44.65	-25	19.65	V
13360.8	-37.84	13.7	12.3	-39.24	-25	14.24	V
15016.2	-33	14.4	12.3	-35.1	-25	10.10	H

RSE-LTE7-QPSK-5MHz-1RB_low-Mid Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
3463.6	-51.06	6.4	7.8	-49.66	-25	24.66	V
5069.6	-45.65	7.8	9.6	-43.85	-25	18.85	H
7604.4	-41.18	9.7	11.6	-39.28	-25	14.28	H
10182.4	-45.85	11.3	12.5	-44.65	-25	19.65	H
12807.8	-39.61	12.5	12.3	-39.81	-25	14.81	V
15210.5	-32.52	14.5	12.3	-34.72	-25	9.72	H

RSE-LTE7-QPSK-5MHz-1RB_low-High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
4021.2	-51.85	6.9	8.6	-50.15	-25	25.15	V
5105.2	-46.92	7.9	9.6	-45.22	-25	20.22	H
6291.6	-48.87	8.8	10.3	-47.37	-25	22.37	V
7702.0	-38	9.8	11.8	-36	-25	11.00	H
10268.8	-43.11	11.5	12.3	-42.31	-25	17.31	H
15406.5	-26.79	14.4	12.3	-28.89	-25	3.89	H

RSE-LTE26(824-849MHz)-QPSK-1.4MHz-1RB_low-Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1649.0	-50.4	4.2	4.7	-49.9	-13	36.90	H
2474.2	-37.96	5.4	5.6	-37.76	-13	24.76	V
4123.6	-51.6	7.0	8.6	-50	-13	37.00	V
5120.8	-51.49	7.9	9.6	-49.79	-13	36.79	V
6287.6	-51.99	8.8	10.3	-50.49	-13	37.49	H
8464.0	-52.23	10.2	12.6	-49.83	-13	36.83	V

RSE-LTE26(824-849MHz)-QPSK-1.4MHz-1RB_low-Mid Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1672.5	-49.09	4.5	4.7	-48.89	-13	35.89	V
2509.6	-39.19	5.4	5.6	-38.99	-13	25.99	H
3370.0	-53.69	6.2	6.9	-52.99	-13	39.99	H
4251.2	-54.08	7.1	8.9	-52.28	-13	39.28	V
5090.0	-51.74	7.9	9.6	-50.04	-13	37.04	V
6045.6	-52.64	8.6	10.2	-51.04	-13	38.04	V

RSE-LTE26(824-849MHz)-QPSK-1.4MHz-1RB_low-High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1696.1	-49.82	4.5	4.7	-49.62	-13	36.62	H
2545.4	-36.73	5.4	5.6	-36.53	-13	23.53	V
3393.6	-54.24	6.3	7.8	-52.74	-13	39.74	H
4241.6	-50.43	7.1	8.9	-48.63	-13	35.63	V
5085.6	-51.8	7.9	9.6	-50.1	-13	37.10	V
5912.0	-52.82	8.5	10.2	-51.12	-13	38.12	H

RSE-LTE38-QPSK-5MHz-1RB_low-Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
3424.0	-51.2	6.3	7.8	-49.7	-25	24.70	V
4634.8	-50.29	7.5	9.0	-48.79	-25	23.79	H
6000.4	-49.75	8.6	10.2	-48.15	-25	23.15	H
7714.0	-44.44	9.8	11.8	-42.44	-25	17.44	H
10406.0	-44.73	11.6	12.3	-44.03	-25	19.03	H
13353.8	-38.45	13.7	12.3	-39.85	-25	14.85	V

RSE-LTE38-QPSK-5MHz-1RB_low-Mid Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
3838.0	-50.24	6.7	7.9	-49.04	-25	24.04	V

5190.0	-45.93	8.0	9.4	-44.53	-25	19.53	H
6399.6	-50.61	8.9	10.6	-48.91	-25	23.91	H
7784.4	-34.88	9.9	11.8	-32.98	-25	7.98	H
10170.8	-44.45	11.3	12.5	-43.25	-25	18.25	V
13331.0	-38.75	13.6	12.3	-40.05	-25	15.05	H

RSE-LTE38-QPSK-5MHz-1RB_low-High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
3676.8	-50.56	6.6	7.9	-49.26	-25	24.26	V
5236.0	-47.78	8.0	9.4	-46.38	-25	21.38	H
7854.0	-41.83	9.9	11.8	-39.93	-25	14.93	H
10403.2	-44.85	11.6	12.3	-44.15	-25	19.15	V
13371.2	-38.12	13.7	12.3	-39.52	-25	14.52	V
16299.0	-31.88	14.7	12.3	-34.28	-25	9.28	H

RSE-LTE40(2305-2315MHz)-QPSK-5MHz-1RB_low-Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
4286.4	-50.23	7.1	8.9	-48.43	-40	8.43	H
5792.4	-50.86	8.4	10.2	-49.06	-40	9.06	H
7204.0	-50.46	9.5	11.4	-48.56	-40	8.56	V
8633.2	-50.13	10.3	12.7	-47.73	-40	7.73	V

RSE-LTE40(2350-2360MHz)-QPSK-5MHz-1RB_low-Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
4207.2	-52.67	7.0	8.9	-50.77	-40	10.77	V
5645.2	-50.98	8.3	10.2	-49.08	-40	9.08	H
7054.0	-46.6	9.4	11.1	-44.9	-40	4.90	H
8336.0	-50.67	10.1	12.4	-48.37	-40	8.37	V

RSE-LTE40(2305-2315MHz)-QPSK-5MHz-1RB_low-Mid Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
4234.0	-52.22	7.1	8.9	-50.42	-40	10.42	H
5591.6	-49.68	8.3	9.8	-48.18	-40	8.18	V
7095.2	-49.52	9.4	11.1	-47.82	-40	7.82	V

9333.2	-48.34	10.7	12.7	-46.34	-40	6.34	V
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RSE-LTE40(2350-2360MHz)-QPSK-5MHz-1RB_low-Mid Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
4452.8	-49.72	7.3	8.7	-48.32	-40	8.32	H
5843.6	-50.94	8.4	10.2	-49.14	-40	9.14	H
7065.2	-46.38	9.4	11.1	-44.68	-40	4.68	H
8542.4	-49.82	10.3	12.6	-47.52	-40	7.52	H

RSE-LTE40(2305-2315MHz)-QPSK-5MHz-1RB_low-High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
4348.0	-51.02	7.2	8.9	-49.32	-40	9.32	H
5504.0	-50.89	8.2	9.8	-49.29	-40	9.29	H
7164.4	-49.64	9.4	11.4	-47.64	-40	7.64	V
8376.0	-49.42	10.2	12.6	-47.02	-40	7.02	V

RSE-LTE40(2350-2360MHz)-QPSK-5MHz-1RB_low-High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
4118.8	-52.33	7.0	8.6	-50.73	-40	10.73	H
5094.8	-48.08	7.9	9.6	-46.38	-40	6.38	H
7072.4	-45.24	9.4	11.1	-43.54	-40	3.54	H
9382.4	-47.65	10.7	12.7	-45.65	-40	5.65	H

RSE-LTE41-QPSK-5MHz-1RB_low-Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
5364.8	-50.39	8.1	9.4	-49.09	-25	24.09	H
7610.8	-40.56	9.7	11.6	-38.66	-25	13.66	V
9832.0	-46.06	11.0	12.5	-44.56	-25	19.56	V
12296.8	-41.81	12.7	12.3	-42.21	-25	17.21	V
14412.5	-39.02	13.9	12.3	-40.62	-25	15.62	V
16794.2	-29.25	15.8	12.3	-32.75	-25	7.75	H

RSE-LTE41-QPSK-5MHz-1RB_low-Mid Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
5184.0	-47.7	8.0	9.4	-46.3	-25	21.30	V

7775.2	-36.73	9.9	11.8	-34.83	-25	9.83	V
9913.2	-46.71	11.0	12.5	-45.21	-25	20.21	H
12200.5	-41.95	12.6	12.3	-42.25	-25	17.25	H
14361.8	-39.6	13.9	12.3	-41.2	-25	16.20	V
16087.2	-31.14	15.0	12.3	-33.84	-25	8.84	H

RSE-LTE41-QPSK-5MHz-1RB_low-High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
5305.2	-48.89	8.0	9.4	-47.49	-25	22.49	V
7958.0	-32.94	9.8	12.2	-30.54	-25	5.54	V
9772.8	-46.66	11.0	12.5	-45.16	-25	20.16	V
11733.2	-42.59	12.4	12.3	-42.69	-25	17.69	H
14417.8	-39.09	13.9	12.3	-40.69	-25	15.69	V
17083.0	-30.15	16.0	12.3	-33.85	-25	8.85	V

Secondary Supply
RSE-LTE41-QPSK-5MHz-1RB_low-Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
3467.6	-52.32	6.4	7.8	-50.92	-25	25.92	V
5039.6	-47.98	7.8	9.6	-46.18	-25	21.18	V
7496.8	-40.94	9.7	11.6	-39.04	-25	14.04	V
9250.4	-46.5	10.7	12.7	-44.5	-25	19.50	V
11659.8	-42.39	12.4	12.3	-42.49	-25	17.49	V
16974.5	-29.91	16.0	12.3	-33.61	-25	8.61	H

RSE-LTE41-QPSK-5MHz-1RB_low-Mid Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit(dBm)	Margin(dBm)	Polarization
3773.2	-50.68	6.6	7.9	-49.38	-25	24.38	V
5188.8	-47.35	8.0	9.4	-45.95	-25	20.95	V
7778.0	-34.56	9.9	11.8	-32.66	-25	7.66	V
10432.0	-44.19	11.6	12.3	-43.49	-25	18.49	V
14386.2	-39.11	13.9	12.3	-40.71	-25	15.71	V
16834.5	-30.2	15.8	12.3	-33.7	-25	8.70	H

RSE-LTE41-QPSK-5MHz-1RB_low-High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
5305.2	-48.89	8.0	9.4	-47.49	-25	22.49	V
7958.0	-32.94	9.8	12.2	-30.54	-25	5.54	V
9772.8	-46.66	11.0	12.5	-45.16	-25	20.16	V
11733.2	-42.59	12.4	12.3	-42.69	-25	17.69	H
14417.8	-39.09	13.9	12.3	-40.69	-25	15.69	V
17083.0	-30.15	16.0	12.3	-33.85	-25	8.85	V

6.3 Frequency Stability

6.3.1 Measurement Limit

FCC §2.1055 The frequency stability shall be measured with variation of ambient temperature as follows:

- (1) From -30° to $+50^{\circ}$ centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.
- (2) From -20° to $+50^{\circ}$ centigrade for equipment to be licensed for use in the Maritime Services under part 80 of this chapter, except for Class A, B, and S Emergency Position Indicating Radiobeacons (EPIRBs), and equipment to be licensed for use above 952 MHz at operational fixed stations in all services, stations in the Local Television Transmission Service and Point-to-Point Microwave Radio Service under part 21 of this chapter, equipment licensed for use aboard aircraft in the Aviation Services under part 87 of this chapter, and equipment authorized for use in the Family Radio Service under part 95 of this chapter.

FCC §24.235 Frequency stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

FCC §22.355 Frequency tolerance. 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.

FCC §27.54 The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

6.3.2 Method of Measurement

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C .
3. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on middle channel for LTE band 7. Measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to $+50^{\circ}\text{C}$. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at $+50^{\circ}\text{C}$.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10°C decrements from $+50^{\circ}\text{C}$ to -30°C . Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to $\pm 0.5^{\circ}\text{C}$ during the measurement procedure.

6.3.3 Test Setup



6.3.4 Measurement results

Temperature	Voltage	Band	Band Width (MHz)	Channel	Rb Mode	QPSK (Hz)	Q16 (Hz)	QPSK (ppm)	Q16 (ppm)
Normal	Low	FDD02	1.4	Mid	fullRB	-19.712	-25.477	0.01	0.014
Normal	Normal	FDD02	1.4	Mid	fullRB	-13.032	-23.875	0.007	0.013
Normal	High	FDD02	1.4	Mid	fullRB	-13.533	11.559	0.007	0.006
50	Normal	FDD02	1.4	Mid	fullRB	3.719	-18.368	0.002	0.01
40	Normal	FDD02	1.4	Mid	fullRB	-14.019	-22.659	0.007	0.012
30	Normal	FDD02	1.4	Mid	fullRB	-13.247	-22.33	0.007	0.012
20	Normal	FDD02	1.4	Mid	fullRB	-6.652	-21.4	0.004	0.011
10	Normal	FDD02	1.4	Mid	fullRB	-12.803	-25.22	0.007	0.013
0	Normal	FDD02	1.4	Mid	fullRB	-12.903	-20.928	0.007	0.011
-10	Normal	FDD02	1.4	Mid	fullRB	-11.187	-20.428	0.006	0.011
-20	Normal	FDD02	1.4	Mid	fullRB	24.934	-17.281	0.013	0.009
-30	Normal	FDD02	1.4	Mid	fullRB	-8.597	-19.369	0.005	0.01
Normal	Low	FDD04	1.4	Mid	fullRB	-10.986	-23.189	0.006	0.013
Normal	Normal	FDD04	1.4	Mid	fullRB	-12.56	-23.575	0.007	0.014
Normal	High	FDD04	1.4	Mid	fullRB	-4.649	-21.672	0.003	0.013
50	Normal	FDD04	1.4	Mid	fullRB	-12.774	-32.458	0.007	0.019
40	Normal	FDD04	1.4	Mid	fullRB	-11.201	-12.617	0.006	0.007
30	Normal	FDD04	1.4	Mid	fullRB	5.064	-7.982	0.003	0.005
20	Normal	FDD04	1.4	Mid	fullRB	-12.689	-19.598	0.007	0.011

Temperature	Voltage	Band	Band Width (MHz)	Channel	Rb Mode	QPSK (Hz)	Q16 (Hz)	QPSK (ppm)	Q16 (ppm)
10	Normal	FDD04	1.4	Mid	fullRB	-11.773	-26.836	0.007	0.015
0	Normal	FDD04	1.4	Mid	fullRB	-15.764	-24.662	0.009	0.014
-10	Normal	FDD04	1.4	Mid	fullRB	-14.491	-24.619	0.008	0.014
-20	Normal	FDD04	1.4	Mid	fullRB	-12.088	-23.904	0.007	0.014
-30	Normal	FDD04	1.4	Mid	fullRB	-13.947	-21.729	0.008	0.013
Normal	Low	FDD05	1.4	Mid	fullRB	-12.689	-27.966	0.015	0.033
Normal	Normal	FDD05	1.4	Mid	fullRB	-12.074	-25.792	0.014	0.031
Normal	High	FDD05	1.4	Mid	fullRB	-15.621	-24.805	0.019	0.03
50	Normal	FDD05	1.4	Mid	fullRB	-9.027	-25.578	0.011	0.031
40	Normal	FDD05	1.4	Mid	fullRB	-11.215	-25.849	0.013	0.031
30	Normal	FDD05	1.4	Mid	fullRB	-7.038	-21.586	0.008	0.026
20	Normal	FDD05	1.4	Mid	fullRB	-11.086	-23.203	0.013	0.028
10	Normal	FDD05	1.4	Mid	fullRB	-9.971	-23.046	0.012	0.028
0	Normal	FDD05	1.4	Mid	fullRB	-11.687	-22.588	0.014	0.027
-10	Normal	FDD05	1.4	Mid	fullRB	7.167	-21.157	0.009	0.025
-20	Normal	FDD05	1.4	Mid	fullRB	-4.621	-21.787	0.006	0.026
-30	Normal	FDD05	1.4	Mid	fullRB	-2.933	-20.571	0.004	0.025
Normal	Low	FDD07	5	Mid	fullRB	-19.155	-15.292	0.008	0.006
Normal	Normal	FDD07	5	Mid	fullRB	-10.643	-5.021	0.004	0.002
Normal	High	FDD07	5	Mid	fullRB	-17.867	10.886	0.007	0.004
50	Normal	FDD07	5	Mid	fullRB	-19.784	11.573	0.008	0.005
40	Normal	FDD07	5	Mid	fullRB	-19.369	-13.261	0.008	0.005
30	Normal	FDD07	5	Mid	fullRB	-12.646	27.008	0.005	0.011
20	Normal	FDD07	5	Mid	fullRB	-11.959	-12.116	0.005	0.005
10	Normal	FDD07	5	Mid	fullRB	-13.69	13.862	0.005	0.005
0	Normal	FDD07	5	Mid	fullRB	-14.262	-14.977	0.006	0.006
-10	Normal	FDD07	5	Mid	fullRB	-12.317	4.749	0.005	0.002
-20	Normal	FDD07	5	Mid	fullRB	-16.551	-9.356	0.007	0.004

Temperature	Voltage	Band	Band Width (MHz)	Channel	Rb Mode	QPSK (Hz)	Q16 (Hz)	QPSK (ppm)	Q16 (ppm)
-30	Normal	FDD07	5	Mid	fullRB	-14.977	-12.045	0.006	0.005
Normal	Low	FDD26 (PART 22)	1.4	Mid	fullRB	-12.488	-30.27	0.015	0.036
Normal	Normal	FDD26 (PART 22)	1.4	Mid	fullRB	-3.376	-27.48	0.004	0.033
Normal	High	FDD26 (PART 22)	1.4	Mid	fullRB	-14.133	-26.579	0.017	0.032
50	Normal	FDD26 (PART 22)	1.4	Mid	fullRB	-17.753	-27.452	0.021	0.033
40	Normal	FDD26 (PART 22)	1.4	Mid	fullRB	-8.883	-25.806	0.011	0.031
30	Normal	FDD26 (PART 22)	1.4	Mid	fullRB	-13.475	-26.135	0.016	0.031
20	Normal	FDD26 (PART 22)	1.4	Mid	fullRB	-14.677	-28.381	0.018	0.034
10	Normal	FDD26 (PART 22)	1.4	Mid	fullRB	-8.64	-26.636	0.01	0.032
0	Normal	FDD26 (PART 22)	1.4	Mid	fullRB	-15.063	-33.903	0.018	0.041
-10	Normal	FDD26 (PART 22)	1.4	Mid	fullRB	-18.239	-29.511	0.022	0.035
-20	Normal	FDD26 (PART 22)	1.4	Mid	fullRB	-16.723	-28.639	0.02	0.034
-30	Normal	FDD26 (PART 22)	1.4	Mid	fullRB	-16.665	-31.514	0.02	0.038
Normal	Low	TDD38	5	Mid	fullRB	-3.219	-26.979	0.001	0.01
Normal	Normal	TDD38	5	Mid	fullRB	-16.122	-18.926	0.006	0.007
Normal	High	TDD38	5	Mid	fullRB	-17.738	-8.097	0.007	0.003
50	Normal	TDD38	5	Mid	fullRB	-7.424	-34.347	0.003	0.013
40	Normal	TDD38	5	Mid	fullRB	-22.101	-29.984	0.009	0.012
30	Normal	TDD38	5	Mid	fullRB	-22.745	-35.777	0.009	0.014
20	Normal	TDD38	5	Mid	fullRB	-23.675	-31.3	0.009	0.012
10	Normal	TDD38	5	Mid	fullRB	-17.982	-32.101	0.007	0.012
0	Normal	TDD38	5	Mid	fullRB	5.465	-29.697	0.002	0.011
-10	Normal	TDD38	5	Mid	fullRB	-20.642	-30.613	0.008	0.012
-20	Normal	TDD38	5	Mid	fullRB	-25.907	-25.306	0.01	0.01
-30	Normal	TDD38	5	Mid	fullRB	-20.099	-28.138	0.008	0.011
Normal	Low	TDD40(2305-2315MHz)	5	Mid	fullRB	-27.552	-23.975	0.012	0.01

Temperature	Voltage	Band	Band Width (MHz)	Channel	Rb Mode	QPSK (Hz)	Q16 (Hz)	QPSK (ppm)	Q16 (ppm)
Normal	Normal	TDD40(2305-2315MHz)	5	Mid	fullRB	-21.629	-19.255	0.009	0.008
Normal	High	TDD40(2305-2315MHz)	5	Mid	fullRB	-27.952	-25.449	0.012	0.011
50	Normal	TDD40(2305-2315MHz)	5	Mid	fullRB	-17.052	-12.202	0.007	0.005
40	Normal	TDD40(2305-2315MHz)	5	Mid	fullRB	-36.75	-9.742	0.016	0.004
30	Normal	TDD40(2305-2315MHz)	5	Mid	fullRB	-20.456	-15.65	0.009	0.007
20	Normal	TDD40(2305-2315MHz)	5	Mid	fullRB	-15.564	-18.454	0.007	0.008
10	Normal	TDD40(2305-2315MHz)	5	Mid	fullRB	-20.571	-14.82	0.009	0.006
0	Normal	TDD40(2305-2315MHz)	5	Mid	fullRB	-16.193	-6.022	0.007	0.003
-10	Normal	TDD40(2305-2315MHz)	5	Mid	fullRB	-26.679	-23.446	0.012	0.01
-20	Normal	TDD40(2305-2315MHz)	5	Mid	fullRB	-24.076	-18.253	0.01	0.008
-30	Normal	TDD40(2305-2315MHz)	5	Mid	fullRB	-19.04	-19.755	0.008	0.009
Normal	Low	TDD40(2350-2360MHz)	5	Mid	fullRB	-17.323	-29.025	0.007	0.012
Normal	Normal	TDD40(2350-2360MHz)	5	Mid	fullRB	-24.505	-29.497	0.01	0.013
Normal	High	TDD40(2350-2360MHz)	5	Mid	fullRB	-13.618	-32.401	0.006	0.014
50	Normal	TDD40(2350-2360MHz)	5	Mid	fullRB	-25.663	-29.855	0.011	0.013
40	Normal	TDD40(2350-2360MHz)	5	Mid	fullRB	-26.622	-22.402	0.011	0.01
30	Normal	TDD40(2350-2360MHz)	5	Mid	fullRB	-21.544	-21.601	0.009	0.009
20	Normal	TDD40(2350-2360MHz)	5	Mid	fullRB	-16.308	-27.337	0.007	0.012
10	Normal	TDD40(2350-2360MHz)	5	Mid	fullRB	-18.74	-17.71	0.008	0.008
0	Normal	TDD40(2350-2360MHz)	5	Mid	fullRB	7.997	-22.073	0.003	0.009
-10	Normal	TDD40(2350-2360MHz)	5	Mid	fullRB	-16.766	-31.271	0.007	0.013
-20	Normal	TDD40(2350-2360MHz)	5	Mid	fullRB	-22.674	-26.064	0.01	0.011
-30	Normal	TDD40(2350-2360MHz)	5	Mid	fullRB	-20.256	-30.413	0.009	0.013
Normal	Low	TDD41	5	Mid	fullRB	-8.125	-23.417	0.003	0.009
Normal	Normal	TDD41	5	Mid	fullRB	-15.607	-28.21	0.006	0.011

Temperature	Voltage	Band	Band Width (MHz)	Channel	Rb Mode	QPSK (Hz)	Q16 (Hz)	QPSK (ppm)	Q16 (ppm)
Normal	High	TDD41	5	Mid	fullRB	-23.26	-24.261	0.009	0.009
50	Normal	TDD41	5	Mid	fullRB	-19.712	-18.096	0.008	0.007
40	Normal	TDD41	5	Mid	fullRB	-14.648	-25.921	0.006	0.01
30	Normal	TDD41	5	Mid	fullRB	-23.303	-20.971	0.009	0.008
20	Normal	TDD41	5	Mid	fullRB	-20.227	-4.864	0.008	0.002
10	Normal	TDD41	5	Mid	fullRB	-6.094	-15.349	0.002	0.006
0	Normal	TDD41	5	Mid	fullRB	6.824	-14.091	0.003	0.005
-10	Normal	TDD41	5	Mid	fullRB	-7.024	-23.689	0.003	0.009
-20	Normal	TDD41	5	Mid	fullRB	-20.7	-19.441	0.008	0.007
-30	Normal	TDD41	5	Mid	fullRB	-11.473	-18.954	0.004	0.007