

# FCC RF TEST REPORT

For

**Mobile Phone**

**Model Number: CPH2541, A302OP**

**FCC ID: R9C-AC078**

**Report Number : WT238000446**

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Inspection  
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## Revision History

No	Date	Remark
V1.0	2023.04.19	Initial issue

## Test report declaration

Applicant : Guangdong OPPO Mobile Telecommunications Corp., Ltd.  
Address : NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China  
Manufacturer : Guangdong OPPO Mobile Telecommunications Corp., Ltd.  
Address : NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China  
EUT Description : Mobile Phone  
  
Model No. : CPH2541, A302OP  
Trade mark : OPPO  
FCC ID : R9C-AC078

Test Standards:

**FCC PART 2, 22H, 24E, 27 and 90S**

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26 (2015) & KDB971168 and the energy emitted by the sample EUT tested as described in this report is in compliance with FCC Rules Part 2, 22H, 24E, 27 and 90S.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Project  
Engineer:

(Zeng Wei 曾伟)

Date: Apr.19, 2023

Checked by:

(Wan Xiaojing 万晓婧)

Date: Apr.19, 2023

Approved by:

(Lin Yixiang 林奕翔)

Date: Apr.19, 2023

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## 1. TEST RESULTS SUMMARY

No.	Test Description	FCC Part No.	Test Result	Test Verdict
1	Conducted Power & Effective Radiated Power	2.1046 22.913 24.232 27.50 90.635(b)	APPENDIX A	Pass
2	Peak to Average Ratio	2.1046 24.232 27.50	APPENDIX B	Pass
3	Occupied Bandwidth & Emission Bandwidth	2.1049 22.917 24.238 27.53 90.209	APPENDIX C	Pass
4	Conducted Band Edge	2.1051 22.917 24.238 27.53 90.691 90.543	APPENDIX D	Pass
5	Conducted Spurious Emissions	2.1051 22.917 24.238 27.53 90.691 90.543	APPENDIX E	Pass
6	Frequency Stability	2.1055 22.355 24.235 27.54 90.213	APPENDIX F	Pass
7	Radiated Spurious Emissions	2.1053 22.917 24.238 27.53 90.691 90.543	APPENDIX G	Pass

## **2. GENERAL INFORMATION**

### **2.1. Report information**

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

The samples mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

The lab will not be liable for any loss or damage resulting from false, inaccurate, inappropriate or incomplete product information provided by the applicant/manufacturer.

### **2.2. Laboratory Accreditation and Relationship to Customer**

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China.

At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is Accredited Testing Laboratory of FCC with Designation number CN1165 and Site registration number 582918.

The Laboratory is registered to perform emission tests with Innovation, Science and Economic Development (ISED), and the registration number is 11177A.

The Laboratory is registered to perform emission tests with VCCI, and the registration number are C-20048, G20076, R-20077, R-20078, and T-20047.

The Laboratory is Accredited Testing Laboratory of American Association for Laboratory Accreditation (A2LA) and certificate number is 3292.01.

### 3. PRODUCT DESCRIPTION

#### 3.1.EUT Description

##### Specification of the Equipment under Test

Hardware Revision:	11	
Software Revision:	ColorOS V13.1	
Tx Frequency:	GSM850:	824 ~ 849 MHz
	PCS1900:	1850 ~ 1910 MHz
	WCDMA Band V:	824 ~ 849 MHz
	WCDMA Band IV:	1710 ~ 1755 MHz
	WCDMA Band II:	1850 ~ 1910 MHz
	LTE Band 2:	1850 ~ 1910 MHz
	LTE Band 4:	1710 ~ 1755 MHz
	LTE Band 5:	824 ~ 849 MHz
	LTE Band 7:	2500 ~ 2570 MHz
	LTE Band 12:	699 ~ 716 MHz
	LTE Band 17:	704 ~ 716 MHz
	LTE Band 26:	814 ~ 849 MHz
	LTE Band 38:	2570 ~ 2620 MHz
	LTE Band 41:	2496 ~ 2690 MHz
	CA_41C:	2496 ~ 2690 MHz
Rx Frequency:	GSM850:	869 ~ 894 MHz
	PCS1900:	1930 ~ 1990 MHz
	WCDMA Band V:	869 ~ 894 MHz
	WCDMA Band IV:	2110 ~ 2155 MHz
	WCDMA Band II:	1930 ~ 1990 MHz
	LTE Band 2:	1930 ~ 1990 MHz
	LTE Band 4:	2110 ~ 2155 MHz
	LTE Band 5:	869 ~ 894 MHz
	LTE Band 7:	2620 ~ 2690 MHz
	LTE Band 12:	729 ~ 746 MHz
	LTE Band 17:	734 ~ 746 MHz
	LTE Band 26:	859 ~ 894 MHz
	LTE Band 38:	2570 ~ 2620 MHz
	LTE Band 41:	2535 ~ 2655 MHz
	CA_41C:	2496 ~ 2690 MHz
Type(s) of Modulation:	GSM: GMSK, 8PSK WCDMA: QPSK LTE: QPSK, 16QAM, 64QAM	

Remark:

The difference between product of CPH2541 and A302OP as below:

Different model names for different clients.

Except listings above, all of the model's circuit theory, electrical design and Critical Components are the same. Unless otherwise specified, the model CPH2541 was chosen as the representative model to perform all the tests.

Antenna		Frequency Bands	Gain (dBi)
Antenna Gain:	Ant 1	GSM850:	<b>-3.7</b>
		WCDMA Band V:	<b>-3.7</b>
		LTE Band 5:	<b>-3.7</b>
		LTE Band 12:	<b>-4.1</b>
		LTE Band 17:	<b>-4.1</b>
		LTE Band 26:	<b>-3.7</b>
	Ant 4	PCS1900:	-1
		WCDMA Band IV:	<b>-1.4</b>
		WCDMA Band II:	-1
		LTE Band 2:	-1
		LTE Band 4:	<b>-1.4</b>
		LTE Band 7:	-0.8
		LTE Band 38:	-0.8
		LTE Band 41:	-0.8
		CA_41C:	-0.8
	Ant 0	GSM850:	-4.8
		WCDMA Band V:	-4.8
		LTE Band 5:	-4.8
		LTE Band 12:	-5.7
		LTE Band 17:	-5.7
		LTE Band 26:	-4.8
	Ant 3	WCDMA Band IV:	-1.4
		WCDMA Band II:	<b>-0.8</b>
		LTE Band 2:	<b>-0.8</b>
		LTE Band 4:	-1.4
		LTE Band 7:	<b>-0.4</b>
		LTE Band 38:	<b>-0.4</b>
		LTE Band 41:	<b>-0.4</b>
CA_41C:		<b>-0.4</b>	
Ant 5	LTE Band 41:	-0.8	
	CA_41C:	-0.8	

NOTE:

1. The extreme test conditions for temperature and antenna gain were declared by the manufacturer.
2. The port of bottom antenna was chosen as representative port to perform the worst case of conducted test.



3. Both bottom and top antennas support transmission (1TX2RX). The EUT doesn't support UL-MIMO mode of GSM, WCDMA and LTE.

### 3.2. Identification of Accessory equipment

AE #	Type	Manufacturer	Model	Serial Number
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### 3.3. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: R9C-AC078 filing to comply with FCC PART 2, 22H, 24E, 27 & 90S.

### 3.4. Operating Condition of EUT

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission (Y plane).

Radiated spurious emissions were investigated below 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found on below 30MHz and 30MHz-1GHz.

- TM1:** GSM Mode with GMSK Modulation
- TM2:** EDGE Mode with 8PSK Modulation
- TM3:** WCDMA Mode with QPSK Modulation
- TM4:** LTE Mode with QPSK Modulation
- TM5:** LTE Mode with 16QAM Modulation
- TM6:** LTE Mode with 64QAM Modulation

### 3.5. Conducted Power

#### GSM:

Band: GSM850 Test Condition	Measured (dBm)		
	TNVN		
Channel	128	190	251
Frequency (MHz)	824.2	836.6	848.8
GSM (GMSK, 1 Tx slot)	33.20	33.12	32.99
GPRS (GMSK, 1 Tx slot)	32.89	32.99	32.66
GPRS (GMSK, 2 Tx slots)	30.20	30.07	29.90
GPRS (GMSK, 3 Tx slots)	28.32	28.08	27.99
GPRS (GMSK, 4 Tx slots)	26.94	26.58	26.54
EDGE (8PSK, 1 Tx slot)	27.24	27.27	27.06
EDGE (8PSK, 2 Tx slots)	25.53	25.37	25.33
EDGE (8PSK, 3 Tx slots)	23.43	23.32	23.10
EDGE (8PSK, 4 Tx slots)	22.89	22.57	22.57

Band: PCS1900	Measured (dBm)		
Test Condition	TNVN		
Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
GSM (GMSK, 1 Tx slot)	29.61	29.49	29.36
GPRS (GMSK, 1 Tx slot)	29.57	29.73	29.55
GPRS (GMSK, 2 Tx slots)	27.22	27.54	27.35
GPRS (GMSK, 3 Tx slots)	25.60	25.64	25.51
GPRS (GMSK, 4 Tx slots)	24.04	23.98	23.97
EDGE (8PSK, 1 Tx slot)	25.83	25.85	25.72
EDGE (8PSK, 2 Tx slots)	23.09	23.00	22.72
EDGE (8PSK, 3 Tx slots)	21.17	21.14	21.00
EDGE (8PSK, 4 Tx slots)	20.55	20.44	20.19

**WCDMA:**

Band: WCDMA Band II	Average Power [dBm]		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	22.72	23.03	22.75
HSDPA Subtest-1	21.66	21.97	21.71
HSDPA Subtest-2	20.91	21.19	20.95
HSDPA Subtest-3	20.85	21.16	20.82
HSDPA Subtest-4	20.83	21.11	20.87
HSUPA Subtest-1	21.41	21.72	21.46
HSUPA Subtest-2	19.49	19.71	19.50
HSUPA Subtest-3	20.41	20.74	20.47
HSUPA Subtest-4	19.50	19.82	19.56
HSUPA Subtest-5	21.52	21.75	21.47

Band: WCDMA Band IV	Average Power [dBm]		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2K	22.72	22.59	22.78
HSDPA Subtest-1	21.63	21.50	21.77
HSDPA Subtest-2	20.91	20.72	20.98
HSDPA Subtest-3	20.84	20.70	20.89
HSDPA Subtest-4	20.83	20.65	20.84

HSUPA Subtest-1	21.39	21.31	21.47
HSUPA Subtest-2	19.50	19.46	19.57
HSUPA Subtest-3	20.38	20.29	20.44
HSUPA Subtest-4	19.48	19.39	19.54
HSUPA Subtest-5	21.44	21.34	21.49

Band: WCDMA Band V	Average Power [dBm]		
Channel	4,132	4,182	4,233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	24.13	24.25	24.18
HSDPA Subtest-1	23.11	23.19	23.16
HSDPA Subtest-2	22.38	22.45	22.41
HSDPA Subtest-3	22.25	22.38	22.38
HSDPA Subtest-4	22.26	22.34	22.30
HSUPA Subtest-1	22.80	22.95	22.90
HSUPA Subtest-2	20.89	21.00	20.94
HSUPA Subtest-3	21.81	21.89	21.87
HSUPA Subtest-4	20.88	20.94	20.89
HSUPA Subtest-5	22.88	22.95	22.90

**LTE:**

Band	Bandwidth	Modulation	Channel	RB Config.	Power (dBm)
Band2	1.4MHz	QPSK	18607	1RB#0	23.01
Band2	1.4MHz	QPSK	18607	1RB#3	23.03
Band2	1.4MHz	QPSK	18607	1RB#5	23.12
Band2	1.4MHz	QPSK	18607	3RB#0	23.08
Band2	1.4MHz	QPSK	18607	3RB#1	23.15
Band2	1.4MHz	QPSK	18607	3RB#3	23.13
Band2	1.4MHz	QPSK	18607	6RB#0	22.22
Band2	1.4MHz	QPSK	18900	1RB#0	23.20
Band2	1.4MHz	QPSK	18900	1RB#3	23.25
Band2	1.4MHz	QPSK	18900	1RB#5	23.23
Band2	1.4MHz	QPSK	18900	3RB#0	23.25
Band2	1.4MHz	QPSK	18900	3RB#1	23.24
Band2	1.4MHz	QPSK	18900	3RB#3	23.24
Band2	1.4MHz	QPSK	18900	6RB#0	22.33
Band2	1.4MHz	QPSK	19193	1RB#0	22.94
Band2	1.4MHz	QPSK	19193	1RB#3	22.83
Band2	1.4MHz	QPSK	19193	1RB#5	22.81

Band2	1.4MHz	QPSK	19193	3RB#0	23.05
Band2	1.4MHz	QPSK	19193	3RB#1	23.00
Band2	1.4MHz	QPSK	19193	3RB#3	22.95
Band2	1.4MHz	QPSK	19193	6RB#0	21.89
Band2	1.4MHz	16QAM	18607	1RB#0	22.34
Band2	1.4MHz	16QAM	18607	1RB#3	22.51
Band2	1.4MHz	16QAM	18607	1RB#5	22.39
Band2	1.4MHz	16QAM	18607	3RB#0	22.36
Band2	1.4MHz	16QAM	18607	3RB#1	22.36
Band2	1.4MHz	16QAM	18607	3RB#3	22.42
Band2	1.4MHz	16QAM	18607	6RB#0	21.33
Band2	1.4MHz	16QAM	18900	1RB#0	22.64
Band2	1.4MHz	16QAM	18900	1RB#3	22.75
Band2	1.4MHz	16QAM	18900	1RB#5	22.52
Band2	1.4MHz	16QAM	18900	3RB#0	22.49
Band2	1.4MHz	16QAM	18900	3RB#1	22.38
Band2	1.4MHz	16QAM	18900	3RB#3	22.38
Band2	1.4MHz	16QAM	18900	6RB#0	21.37
Band2	1.4MHz	16QAM	19193	1RB#0	22.21
Band2	1.4MHz	16QAM	19193	1RB#3	22.41
Band2	1.4MHz	16QAM	19193	1RB#5	22.21
Band2	1.4MHz	16QAM	19193	3RB#0	22.31
Band2	1.4MHz	16QAM	19193	3RB#1	22.20
Band2	1.4MHz	16QAM	19193	3RB#3	22.13
Band2	1.4MHz	16QAM	19193	6RB#0	21.40
Band2	1.4MHz	64QAM	18607	1RB#0	21.36
Band2	1.4MHz	64QAM	18607	1RB#3	21.37
Band2	1.4MHz	64QAM	18607	1RB#5	21.35
Band2	1.4MHz	64QAM	18607	3RB#0	21.27
Band2	1.4MHz	64QAM	18607	3RB#1	21.45
Band2	1.4MHz	64QAM	18607	3RB#3	21.29
Band2	1.4MHz	64QAM	18607	6RB#0	20.29
Band2	1.4MHz	64QAM	18900	1RB#0	21.50
Band2	1.4MHz	64QAM	18900	1RB#3	21.67
Band2	1.4MHz	64QAM	18900	1RB#5	21.35
Band2	1.4MHz	64QAM	18900	3RB#0	21.60
Band2	1.4MHz	64QAM	18900	3RB#1	21.56
Band2	1.4MHz	64QAM	18900	3RB#3	21.41
Band2	1.4MHz	64QAM	18900	6RB#0	20.44
Band2	1.4MHz	64QAM	19193	1RB#0	21.12
Band2	1.4MHz	64QAM	19193	1RB#3	21.05
Band2	1.4MHz	64QAM	19193	1RB#5	20.97
Band2	1.4MHz	64QAM	19193	3RB#0	21.06
Band2	1.4MHz	64QAM	19193	3RB#1	21.07
Band2	1.4MHz	64QAM	19193	3RB#3	20.99

Band2	1.4MHz	64QAM	19193	6RB#0	19.95
Band2	3MHz	QPSK	18615	1RB#0	23.33
Band2	3MHz	QPSK	18615	1RB#7	23.07
Band2	3MHz	QPSK	18615	1RB#14	22.98
Band2	3MHz	QPSK	18615	8RB#0	22.35
Band2	3MHz	QPSK	18615	8RB#4	22.34
Band2	3MHz	QPSK	18615	8RB#7	22.25
Band2	3MHz	QPSK	18615	15RB#0	22.31
Band2	3MHz	QPSK	18900	1RB#0	23.35
Band2	3MHz	QPSK	18900	1RB#7	23.24
Band2	3MHz	QPSK	18900	1RB#14	23.29
Band2	3MHz	QPSK	18900	8RB#0	22.44
Band2	3MHz	QPSK	18900	8RB#4	22.39
Band2	3MHz	QPSK	18900	8RB#7	22.33
Band2	3MHz	QPSK	18900	15RB#0	22.26
Band2	3MHz	QPSK	19185	1RB#0	23.01
Band2	3MHz	QPSK	19185	1RB#7	22.90
Band2	3MHz	QPSK	19185	1RB#14	22.92
Band2	3MHz	QPSK	19185	8RB#0	22.09
Band2	3MHz	QPSK	19185	8RB#4	22.16
Band2	3MHz	QPSK	19185	8RB#7	22.06
Band2	3MHz	QPSK	19185	15RB#0	22.14
Band2	3MHz	16QAM	18615	1RB#0	22.62
Band2	3MHz	16QAM	18615	1RB#7	22.40
Band2	3MHz	16QAM	18615	1RB#14	22.35
Band2	3MHz	16QAM	18615	8RB#0	21.47
Band2	3MHz	16QAM	18615	8RB#4	21.34
Band2	3MHz	16QAM	18615	8RB#7	21.38
Band2	3MHz	16QAM	18615	15RB#0	21.35
Band2	3MHz	16QAM	18900	1RB#0	22.78
Band2	3MHz	16QAM	18900	1RB#7	22.65
Band2	3MHz	16QAM	18900	1RB#14	22.56
Band2	3MHz	16QAM	18900	8RB#0	21.45
Band2	3MHz	16QAM	18900	8RB#4	21.56
Band2	3MHz	16QAM	18900	8RB#7	21.26
Band2	3MHz	16QAM	18900	15RB#0	21.39
Band2	3MHz	16QAM	19185	1RB#0	22.56
Band2	3MHz	16QAM	19185	1RB#7	22.34
Band2	3MHz	16QAM	19185	1RB#14	22.32
Band2	3MHz	16QAM	19185	8RB#0	21.24
Band2	3MHz	16QAM	19185	8RB#4	21.40
Band2	3MHz	16QAM	19185	8RB#7	21.18
Band2	3MHz	16QAM	19185	15RB#0	21.22
Band2	3MHz	64QAM	18615	1RB#0	21.51
Band2	3MHz	64QAM	18615	1RB#7	21.43

Band2	3MHz	64QAM	18615	1RB#14	21.51
Band2	3MHz	64QAM	18615	8RB#0	20.42
Band2	3MHz	64QAM	18615	8RB#4	20.38
Band2	3MHz	64QAM	18615	8RB#7	20.35
Band2	3MHz	64QAM	18615	15RB#0	20.26
Band2	3MHz	64QAM	18900	1RB#0	21.45
Band2	3MHz	64QAM	18900	1RB#7	21.47
Band2	3MHz	64QAM	18900	1RB#14	21.42
Band2	3MHz	64QAM	18900	8RB#0	20.46
Band2	3MHz	64QAM	18900	8RB#4	20.49
Band2	3MHz	64QAM	18900	8RB#7	20.38
Band2	3MHz	64QAM	18900	15RB#0	20.47
Band2	3MHz	64QAM	19185	1RB#0	21.42
Band2	3MHz	64QAM	19185	1RB#7	21.25
Band2	3MHz	64QAM	19185	1RB#14	21.21
Band2	3MHz	64QAM	19185	8RB#0	20.25
Band2	3MHz	64QAM	19185	8RB#4	20.18
Band2	3MHz	64QAM	19185	8RB#7	20.12
Band2	3MHz	64QAM	19185	15RB#0	20.24
Band2	5MHz	QPSK	18625	1RB#0	23.18
Band2	5MHz	QPSK	18625	1RB#12	23.10
Band2	5MHz	QPSK	18625	1RB#24	23.14
Band2	5MHz	QPSK	18625	12RB#0	22.40
Band2	5MHz	QPSK	18625	12RB#6	22.34
Band2	5MHz	QPSK	18625	12RB#13	22.29
Band2	5MHz	QPSK	18625	25RB#0	22.30
Band2	5MHz	QPSK	18900	1RB#0	23.30
Band2	5MHz	QPSK	18900	1RB#12	23.04
Band2	5MHz	QPSK	18900	1RB#24	23.11
Band2	5MHz	QPSK	18900	12RB#0	22.48
Band2	5MHz	QPSK	18900	12RB#6	22.33
Band2	5MHz	QPSK	18900	12RB#13	22.24
Band2	5MHz	QPSK	18900	25RB#0	22.35
Band2	5MHz	QPSK	19175	1RB#0	23.01
Band2	5MHz	QPSK	19175	1RB#12	23.00
Band2	5MHz	QPSK	19175	1RB#24	22.93
Band2	5MHz	QPSK	19175	12RB#0	22.23
Band2	5MHz	QPSK	19175	12RB#6	22.21
Band2	5MHz	QPSK	19175	12RB#13	22.08
Band2	5MHz	QPSK	19175	25RB#0	22.25
Band2	5MHz	16QAM	18625	1RB#0	22.56
Band2	5MHz	16QAM	18625	1RB#12	22.45
Band2	5MHz	16QAM	18625	1RB#24	22.58
Band2	5MHz	16QAM	18625	12RB#0	21.38
Band2	5MHz	16QAM	18625	12RB#6	21.29

Band2	5MHz	16QAM	18625	12RB#13	21.25
Band2	5MHz	16QAM	18625	25RB#0	21.41
Band2	5MHz	16QAM	18900	1RB#0	22.62
Band2	5MHz	16QAM	18900	1RB#12	22.78
Band2	5MHz	16QAM	18900	1RB#24	22.56
Band2	5MHz	16QAM	18900	12RB#0	21.45
Band2	5MHz	16QAM	18900	12RB#6	21.55
Band2	5MHz	16QAM	18900	12RB#13	21.39
Band2	5MHz	16QAM	18900	25RB#0	21.40
Band2	5MHz	16QAM	19175	1RB#0	22.31
Band2	5MHz	16QAM	19175	1RB#12	22.29
Band2	5MHz	16QAM	19175	1RB#24	22.28
Band2	5MHz	16QAM	19175	12RB#0	21.31
Band2	5MHz	16QAM	19175	12RB#6	21.24
Band2	5MHz	16QAM	19175	12RB#13	21.16
Band2	5MHz	16QAM	19175	25RB#0	21.18
Band2	5MHz	64QAM	18625	1RB#0	21.51
Band2	5MHz	64QAM	18625	1RB#12	21.29
Band2	5MHz	64QAM	18625	1RB#24	21.51
Band2	5MHz	64QAM	18625	12RB#0	20.37
Band2	5MHz	64QAM	18625	12RB#6	20.40
Band2	5MHz	64QAM	18625	12RB#13	20.28
Band2	5MHz	64QAM	18625	25RB#0	20.36
Band2	5MHz	64QAM	18900	1RB#0	21.56
Band2	5MHz	64QAM	18900	1RB#12	21.47
Band2	5MHz	64QAM	18900	1RB#24	21.26
Band2	5MHz	64QAM	18900	12RB#0	20.54
Band2	5MHz	64QAM	18900	12RB#6	20.43
Band2	5MHz	64QAM	18900	12RB#13	20.46
Band2	5MHz	64QAM	18900	25RB#0	20.34
Band2	5MHz	64QAM	19175	1RB#0	21.36
Band2	5MHz	64QAM	19175	1RB#12	21.32
Band2	5MHz	64QAM	19175	1RB#24	21.33
Band2	5MHz	64QAM	19175	12RB#0	20.35
Band2	5MHz	64QAM	19175	12RB#6	20.27
Band2	5MHz	64QAM	19175	12RB#13	20.12
Band2	5MHz	64QAM	19175	25RB#0	20.24
Band2	10MHz	QPSK	18650	1RB#0	23.27
Band2	10MHz	QPSK	18650	1RB#24	22.92
Band2	10MHz	QPSK	18650	1RB#49	23.08
Band2	10MHz	QPSK	18650	25RB#0	22.33
Band2	10MHz	QPSK	18650	25RB#12	22.36
Band2	10MHz	QPSK	18650	25RB#25	22.35
Band2	10MHz	QPSK	18650	50RB#0	22.34
Band2	10MHz	QPSK	18900	1RB#0	23.53

Band2	10MHz	QPSK	18900	1RB#24	23.32
Band2	10MHz	QPSK	18900	1RB#49	23.20
Band2	10MHz	QPSK	18900	25RB#0	22.45
Band2	10MHz	QPSK	18900	25RB#12	22.40
Band2	10MHz	QPSK	18900	25RB#25	22.23
Band2	10MHz	QPSK	18900	50RB#0	22.41
Band2	10MHz	QPSK	19150	1RB#0	23.22
Band2	10MHz	QPSK	19150	1RB#24	23.02
Band2	10MHz	QPSK	19150	1RB#49	23.18
Band2	10MHz	QPSK	19150	25RB#0	22.23
Band2	10MHz	QPSK	19150	25RB#12	22.30
Band2	10MHz	QPSK	19150	25RB#25	22.22
Band2	10MHz	QPSK	19150	50RB#0	22.28
Band2	10MHz	16QAM	18650	1RB#0	22.45
Band2	10MHz	16QAM	18650	1RB#24	22.41
Band2	10MHz	16QAM	18650	1RB#49	22.43
Band2	10MHz	16QAM	18650	25RB#0	21.37
Band2	10MHz	16QAM	18650	25RB#12	21.34
Band2	10MHz	16QAM	18650	25RB#25	21.36
Band2	10MHz	16QAM	18650	50RB#0	21.36
Band2	10MHz	16QAM	18900	1RB#0	22.61
Band2	10MHz	16QAM	18900	1RB#24	22.65
Band2	10MHz	16QAM	18900	1RB#49	22.55
Band2	10MHz	16QAM	18900	25RB#0	21.41
Band2	10MHz	16QAM	18900	25RB#12	21.36
Band2	10MHz	16QAM	18900	25RB#25	21.43
Band2	10MHz	16QAM	18900	50RB#0	21.43
Band2	10MHz	16QAM	19150	1RB#0	22.45
Band2	10MHz	16QAM	19150	1RB#24	22.58
Band2	10MHz	16QAM	19150	1RB#49	22.37
Band2	10MHz	16QAM	19150	25RB#0	21.29
Band2	10MHz	16QAM	19150	25RB#12	21.24
Band2	10MHz	16QAM	19150	25RB#25	21.16
Band2	10MHz	16QAM	19150	50RB#0	21.20
Band2	10MHz	64QAM	18650	1RB#0	21.48
Band2	10MHz	64QAM	18650	1RB#24	21.46
Band2	10MHz	64QAM	18650	1RB#49	21.66
Band2	10MHz	64QAM	18650	25RB#0	20.45
Band2	10MHz	64QAM	18650	25RB#12	20.45
Band2	10MHz	64QAM	18650	25RB#25	20.32
Band2	10MHz	64QAM	18650	50RB#0	20.41
Band2	10MHz	64QAM	18900	1RB#0	21.52
Band2	10MHz	64QAM	18900	1RB#24	21.52
Band2	10MHz	64QAM	18900	1RB#49	21.36
Band2	10MHz	64QAM	18900	25RB#0	20.43



Band2	10MHz	64QAM	18900	25RB#12	20.43
Band2	10MHz	64QAM	18900	25RB#25	20.42
Band2	10MHz	64QAM	18900	50RB#0	20.48
Band2	10MHz	64QAM	19150	1RB#0	21.32
Band2	10MHz	64QAM	19150	1RB#24	21.29
Band2	10MHz	64QAM	19150	1RB#49	21.08
Band2	10MHz	64QAM	19150	25RB#0	20.37
Band2	10MHz	64QAM	19150	25RB#12	20.35
Band2	10MHz	64QAM	19150	25RB#25	20.22
Band2	10MHz	64QAM	19150	50RB#0	20.17
Band2	15MHz	QPSK	18675	1RB#0	23.04
Band2	15MHz	QPSK	18675	1RB#38	23.04
Band2	15MHz	QPSK	18675	1RB#74	22.93
Band2	15MHz	QPSK	18675	38RB#0	22.97
Band2	15MHz	QPSK	18675	38RB#18	23.07
Band2	15MHz	QPSK	18675	38RB#37	22.96
Band2	15MHz	QPSK	18675	75RB#0	22.24
Band2	15MHz	QPSK	18900	1RB#0	23.11
Band2	15MHz	QPSK	18900	1RB#38	23.15
Band2	15MHz	QPSK	18900	1RB#74	23.10
Band2	15MHz	QPSK	18900	38RB#0	23.02
Band2	15MHz	QPSK	18900	38RB#18	23.17
Band2	15MHz	QPSK	18900	38RB#37	23.24
Band2	15MHz	QPSK	18900	75RB#0	22.21
Band2	15MHz	QPSK	19125	1RB#0	22.96
Band2	15MHz	QPSK	19125	1RB#38	22.95
Band2	15MHz	QPSK	19125	1RB#74	23.00
Band2	15MHz	QPSK	19125	38RB#0	23.00
Band2	15MHz	QPSK	19125	38RB#18	22.93
Band2	15MHz	QPSK	19125	38RB#37	22.90
Band2	15MHz	QPSK	19125	75RB#0	22.15
Band2	15MHz	16QAM	18675	1RB#0	22.50
Band2	15MHz	16QAM	18675	1RB#38	22.37
Band2	15MHz	16QAM	18675	1RB#74	22.50
Band2	15MHz	16QAM	18675	38RB#0	22.54
Band2	15MHz	16QAM	18675	38RB#18	22.57
Band2	15MHz	16QAM	18675	38RB#37	22.60
Band2	15MHz	16QAM	18675	75RB#0	21.27
Band2	15MHz	16QAM	18900	1RB#0	22.43
Band2	15MHz	16QAM	18900	1RB#38	22.51
Band2	15MHz	16QAM	18900	1RB#74	22.45
Band2	15MHz	16QAM	18900	38RB#0	22.66
Band2	15MHz	16QAM	18900	38RB#18	22.60
Band2	15MHz	16QAM	18900	38RB#37	22.54
Band2	15MHz	16QAM	18900	75RB#0	21.22

Band2	15MHz	16QAM	19125	1RB#0	22.28
Band2	15MHz	16QAM	19125	1RB#38	22.40
Band2	15MHz	16QAM	19125	1RB#74	22.29
Band2	15MHz	16QAM	19125	38RB#0	22.39
Band2	15MHz	16QAM	19125	38RB#18	22.40
Band2	15MHz	16QAM	19125	38RB#37	22.28
Band2	15MHz	16QAM	19125	75RB#0	21.11
Band2	15MHz	64QAM	18675	1RB#0	21.22
Band2	15MHz	64QAM	18675	1RB#38	21.30
Band2	15MHz	64QAM	18675	1RB#74	21.31
Band2	15MHz	64QAM	18675	38RB#0	21.03
Band2	15MHz	64QAM	18675	38RB#18	21.32
Band2	15MHz	64QAM	18675	38RB#37	21.14
Band2	15MHz	64QAM	18675	75RB#0	20.21
Band2	15MHz	64QAM	18900	1RB#0	21.24
Band2	15MHz	64QAM	18900	1RB#38	21.34
Band2	15MHz	64QAM	18900	1RB#74	21.16
Band2	15MHz	64QAM	18900	38RB#0	21.30
Band2	15MHz	64QAM	18900	38RB#18	21.33
Band2	15MHz	64QAM	18900	38RB#37	21.42
Band2	15MHz	64QAM	18900	75RB#0	20.23
Band2	15MHz	64QAM	19125	1RB#0	21.25
Band2	15MHz	64QAM	19125	1RB#38	21.15
Band2	15MHz	64QAM	19125	1RB#74	21.10
Band2	15MHz	64QAM	19125	38RB#0	21.15
Band2	15MHz	64QAM	19125	38RB#18	21.28
Band2	15MHz	64QAM	19125	38RB#37	21.14
Band2	15MHz	64QAM	19125	75RB#0	20.15
Band2	20MHz	QPSK	18700	1RB#0	23.08
Band2	20MHz	QPSK	18700	1RB#49	23.08
Band2	20MHz	QPSK	18700	1RB#99	23.19
Band2	20MHz	QPSK	18700	50RB#0	22.28
Band2	20MHz	QPSK	18700	50RB#25	22.34
Band2	20MHz	QPSK	18700	50RB#50	22.34
Band2	20MHz	QPSK	18700	100RB#0	22.31
Band2	20MHz	QPSK	18900	1RB#0	23.24
Band2	20MHz	QPSK	18900	1RB#49	23.21
Band2	20MHz	QPSK	18900	1RB#99	23.27
Band2	20MHz	QPSK	18900	50RB#0	22.40
Band2	20MHz	QPSK	18900	50RB#25	22.40
Band2	20MHz	QPSK	18900	50RB#50	22.34
Band2	20MHz	QPSK	18900	100RB#0	22.35
Band2	20MHz	QPSK	19100	1RB#0	23.05
Band2	20MHz	QPSK	19100	1RB#49	23.00
Band2	20MHz	QPSK	19100	1RB#99	22.96

Band2	20MHz	QPSK	19100	50RB#0	22.25
Band2	20MHz	QPSK	19100	50RB#25	22.29
Band2	20MHz	QPSK	19100	50RB#50	22.23
Band2	20MHz	QPSK	19100	100RB#0	22.32
Band2	20MHz	16QAM	18700	1RB#0	22.38
Band2	20MHz	16QAM	18700	1RB#49	22.69
Band2	20MHz	16QAM	18700	1RB#99	22.62
Band2	20MHz	16QAM	18700	50RB#0	21.24
Band2	20MHz	16QAM	18700	50RB#25	21.42
Band2	20MHz	16QAM	18700	50RB#50	21.34
Band2	20MHz	16QAM	18700	100RB#0	21.31
Band2	20MHz	16QAM	18900	1RB#0	22.57
Band2	20MHz	16QAM	18900	1RB#49	22.63
Band2	20MHz	16QAM	18900	1RB#99	22.62
Band2	20MHz	16QAM	18900	50RB#0	21.39
Band2	20MHz	16QAM	18900	50RB#25	21.41
Band2	20MHz	16QAM	18900	50RB#50	21.30
Band2	20MHz	16QAM	18900	100RB#0	21.35
Band2	20MHz	16QAM	19100	1RB#0	22.47
Band2	20MHz	16QAM	19100	1RB#49	22.51
Band2	20MHz	16QAM	19100	1RB#99	22.45
Band2	20MHz	16QAM	19100	50RB#0	21.28
Band2	20MHz	16QAM	19100	50RB#25	21.34
Band2	20MHz	16QAM	19100	50RB#50	21.16
Band2	20MHz	16QAM	19100	100RB#0	21.26
Band2	20MHz	64QAM	18700	1RB#0	22.33
Band2	20MHz	64QAM	18700	1RB#49	22.25
Band2	20MHz	64QAM	18700	1RB#99	22.44
Band2	20MHz	64QAM	18700	50RB#0	21.26
Band2	20MHz	64QAM	18700	50RB#25	21.36
Band2	20MHz	64QAM	18700	50RB#50	21.26
Band2	20MHz	64QAM	18700	100RB#0	21.32
Band2	20MHz	64QAM	18900	1RB#0	22.52
Band2	20MHz	64QAM	18900	1RB#49	22.38
Band2	20MHz	64QAM	18900	1RB#99	22.45
Band2	20MHz	64QAM	18900	50RB#0	21.36
Band2	20MHz	64QAM	18900	50RB#25	21.34
Band2	20MHz	64QAM	18900	50RB#50	21.43
Band2	20MHz	64QAM	18900	100RB#0	21.32
Band2	20MHz	64QAM	19100	1RB#0	22.25
Band2	20MHz	64QAM	19100	1RB#49	22.41
Band2	20MHz	64QAM	19100	1RB#99	22.31
Band2	20MHz	64QAM	19100	50RB#0	21.29
Band2	20MHz	64QAM	19100	50RB#25	21.25
Band2	20MHz	64QAM	19100	50RB#50	21.18

Band2	20MHz	64QAM	19100	100RB#0	21.19
Band4	1.4MHz	QPSK	19957	1RB#0	22.65
Band4	1.4MHz	QPSK	19957	1RB#3	22.63
Band4	1.4MHz	QPSK	19957	1RB#5	22.63
Band4	1.4MHz	QPSK	19957	3RB#0	22.71
Band4	1.4MHz	QPSK	19957	3RB#2	22.76
Band4	1.4MHz	QPSK	19957	3RB#3	22.72
Band4	1.4MHz	QPSK	19957	6RB#0	21.67
Band4	1.4MHz	QPSK	20175	1RB#0	22.38
Band4	1.4MHz	QPSK	20175	1RB#3	22.52
Band4	1.4MHz	QPSK	20175	1RB#5	22.45
Band4	1.4MHz	QPSK	20175	3RB#0	22.65
Band4	1.4MHz	QPSK	20175	3RB#2	22.65
Band4	1.4MHz	QPSK	20175	3RB#3	22.54
Band4	1.4MHz	QPSK	20175	6RB#0	21.57
Band4	1.4MHz	QPSK	20393	1RB#0	22.72
Band4	1.4MHz	QPSK	20393	1RB#3	22.82
Band4	1.4MHz	QPSK	20393	1RB#5	22.67
Band4	1.4MHz	QPSK	20393	3RB#0	22.80
Band4	1.4MHz	QPSK	20393	3RB#2	22.75
Band4	1.4MHz	QPSK	20393	3RB#3	22.79
Band4	1.4MHz	QPSK	20393	6RB#0	21.85
Band4	1.4MHz	16QAM	19957	1RB#0	21.98
Band4	1.4MHz	16QAM	19957	1RB#3	22.20
Band4	1.4MHz	16QAM	19957	1RB#5	22.04
Band4	1.4MHz	16QAM	19957	3RB#0	21.95
Band4	1.4MHz	16QAM	19957	3RB#2	21.90
Band4	1.4MHz	16QAM	19957	3RB#3	21.99
Band4	1.4MHz	16QAM	19957	6RB#0	20.74
Band4	1.4MHz	16QAM	20175	1RB#0	21.94
Band4	1.4MHz	16QAM	20175	1RB#3	22.01
Band4	1.4MHz	16QAM	20175	1RB#5	21.85
Band4	1.4MHz	16QAM	20175	3RB#0	21.78
Band4	1.4MHz	16QAM	20175	3RB#2	21.78
Band4	1.4MHz	16QAM	20175	3RB#3	21.71
Band4	1.4MHz	16QAM	20175	6RB#0	20.76
Band4	1.4MHz	16QAM	20393	1RB#0	22.08
Band4	1.4MHz	16QAM	20393	1RB#3	22.17
Band4	1.4MHz	16QAM	20393	1RB#5	22.10
Band4	1.4MHz	16QAM	20393	3RB#0	21.97
Band4	1.4MHz	16QAM	20393	3RB#2	22.06
Band4	1.4MHz	16QAM	20393	3RB#3	22.18
Band4	1.4MHz	16QAM	20393	6RB#0	20.80
Band4	1.4MHz	64QAM	19957	1RB#0	21.09
Band4	1.4MHz	64QAM	19957	1RB#3	21.02

Band4	1.4MHz	64QAM	19957	1RB#5	20.96
Band4	1.4MHz	64QAM	19957	3RB#0	20.90
Band4	1.4MHz	64QAM	19957	3RB#2	21.05
Band4	1.4MHz	64QAM	19957	3RB#3	20.93
Band4	1.4MHz	64QAM	19957	6RB#0	19.85
Band4	1.4MHz	64QAM	20175	1RB#0	20.72
Band4	1.4MHz	64QAM	20175	1RB#3	20.84
Band4	1.4MHz	64QAM	20175	1RB#5	20.75
Band4	1.4MHz	64QAM	20175	3RB#0	20.57
Band4	1.4MHz	64QAM	20175	3RB#2	20.70
Band4	1.4MHz	64QAM	20175	3RB#3	20.65
Band4	1.4MHz	64QAM	20175	6RB#0	19.73
Band4	1.4MHz	64QAM	20393	1RB#0	21.00
Band4	1.4MHz	64QAM	20393	1RB#3	21.04
Band4	1.4MHz	64QAM	20393	1RB#5	20.96
Band4	1.4MHz	64QAM	20393	3RB#0	21.04
Band4	1.4MHz	64QAM	20393	3RB#2	21.09
Band4	1.4MHz	64QAM	20393	3RB#3	20.88
Band4	1.4MHz	64QAM	20393	6RB#0	19.93
Band4	3MHz	QPSK	19965	1RB#0	22.83
Band4	3MHz	QPSK	19965	1RB#7	22.64
Band4	3MHz	QPSK	19965	1RB#14	22.74
Band4	3MHz	QPSK	19965	8RB#0	21.91
Band4	3MHz	QPSK	19965	8RB#4	21.89
Band4	3MHz	QPSK	19965	8RB#7	21.93
Band4	3MHz	QPSK	19965	15RB#0	21.88
Band4	3MHz	QPSK	20175	1RB#0	22.60
Band4	3MHz	QPSK	20175	1RB#7	22.59
Band4	3MHz	QPSK	20175	1RB#14	22.59
Band4	3MHz	QPSK	20175	8RB#0	21.77
Band4	3MHz	QPSK	20175	8RB#4	21.84
Band4	3MHz	QPSK	20175	8RB#7	21.76
Band4	3MHz	QPSK	20175	15RB#0	21.77
Band4	3MHz	QPSK	20385	1RB#0	22.80
Band4	3MHz	QPSK	20385	1RB#7	22.78
Band4	3MHz	QPSK	20385	1RB#14	22.85
Band4	3MHz	QPSK	20385	8RB#0	21.95
Band4	3MHz	QPSK	20385	8RB#4	21.97
Band4	3MHz	QPSK	20385	8RB#7	22.00
Band4	3MHz	QPSK	20385	15RB#0	21.95
Band4	3MHz	16QAM	19965	1RB#0	22.12
Band4	3MHz	16QAM	19965	1RB#7	22.15
Band4	3MHz	16QAM	19965	1RB#14	22.18
Band4	3MHz	16QAM	19965	8RB#0	20.92
Band4	3MHz	16QAM	19965	8RB#4	21.01

Band4	3MHz	16QAM	19965	8RB#7	21.01
Band4	3MHz	16QAM	19965	15RB#0	20.87
Band4	3MHz	16QAM	20175	1RB#0	22.04
Band4	3MHz	16QAM	20175	1RB#7	22.05
Band4	3MHz	16QAM	20175	1RB#14	22.11
Band4	3MHz	16QAM	20175	8RB#0	20.85
Band4	3MHz	16QAM	20175	8RB#4	20.85
Band4	3MHz	16QAM	20175	8RB#7	20.91
Band4	3MHz	16QAM	20175	15RB#0	20.78
Band4	3MHz	16QAM	20385	1RB#0	22.15
Band4	3MHz	16QAM	20385	1RB#7	22.20
Band4	3MHz	16QAM	20385	1RB#14	22.19
Band4	3MHz	16QAM	20385	8RB#0	21.03
Band4	3MHz	16QAM	20385	8RB#4	20.93
Band4	3MHz	16QAM	20385	8RB#7	21.06
Band4	3MHz	16QAM	20385	15RB#0	20.98
Band4	3MHz	64QAM	19965	1RB#0	21.03
Band4	3MHz	64QAM	19965	1RB#7	20.85
Band4	3MHz	64QAM	19965	1RB#14	21.04
Band4	3MHz	64QAM	19965	8RB#0	19.77
Band4	3MHz	64QAM	19965	8RB#4	19.91
Band4	3MHz	64QAM	19965	8RB#7	20.00
Band4	3MHz	64QAM	19965	15RB#0	19.94
Band4	3MHz	64QAM	20175	1RB#0	20.82
Band4	3MHz	64QAM	20175	1RB#7	20.83
Band4	3MHz	64QAM	20175	1RB#14	21.01
Band4	3MHz	64QAM	20175	8RB#0	19.84
Band4	3MHz	64QAM	20175	8RB#4	19.84
Band4	3MHz	64QAM	20175	8RB#7	19.88
Band4	3MHz	64QAM	20175	15RB#0	19.90
Band4	3MHz	64QAM	20385	1RB#0	20.85
Band4	3MHz	64QAM	20385	1RB#7	21.03
Band4	3MHz	64QAM	20385	1RB#14	21.22
Band4	3MHz	64QAM	20385	8RB#0	19.97
Band4	3MHz	64QAM	20385	8RB#4	20.00
Band4	3MHz	64QAM	20385	8RB#7	20.00
Band4	3MHz	64QAM	20385	15RB#0	20.03
Band4	5MHz	QPSK	19975	1RB#0	22.79
Band4	5MHz	QPSK	19975	1RB#12	22.74
Band4	5MHz	QPSK	19975	1RB#24	22.74
Band4	5MHz	QPSK	19975	12RB#0	21.91
Band4	5MHz	QPSK	19975	12RB#6	21.89
Band4	5MHz	QPSK	19975	12RB#13	21.91
Band4	5MHz	QPSK	19975	25RB#0	21.85
Band4	5MHz	QPSK	20175	1RB#0	22.72

Band4	5MHz	QPSK	20175	1RB#12	22.61
Band4	5MHz	QPSK	20175	1RB#24	22.75
Band4	5MHz	QPSK	20175	12RB#0	21.79
Band4	5MHz	QPSK	20175	12RB#6	21.81
Band4	5MHz	QPSK	20175	12RB#13	21.87
Band4	5MHz	QPSK	20175	25RB#0	21.83
Band4	5MHz	QPSK	20375	1RB#0	22.85
Band4	5MHz	QPSK	20375	1RB#12	22.62
Band4	5MHz	QPSK	20375	1RB#24	22.83
Band4	5MHz	QPSK	20375	12RB#0	21.99
Band4	5MHz	QPSK	20375	12RB#6	21.99
Band4	5MHz	QPSK	20375	12RB#13	22.02
Band4	5MHz	QPSK	20375	25RB#0	21.95
Band4	5MHz	16QAM	19975	1RB#0	22.15
Band4	5MHz	16QAM	19975	1RB#12	21.94
Band4	5MHz	16QAM	19975	1RB#24	22.19
Band4	5MHz	16QAM	19975	12RB#0	20.97
Band4	5MHz	16QAM	19975	12RB#6	20.94
Band4	5MHz	16QAM	19975	12RB#13	20.88
Band4	5MHz	16QAM	19975	25RB#0	20.95
Band4	5MHz	16QAM	20175	1RB#0	22.15
Band4	5MHz	16QAM	20175	1RB#12	22.03
Band4	5MHz	16QAM	20175	1RB#24	22.17
Band4	5MHz	16QAM	20175	12RB#0	20.84
Band4	5MHz	16QAM	20175	12RB#6	21.02
Band4	5MHz	16QAM	20175	12RB#13	20.77
Band4	5MHz	16QAM	20175	25RB#0	20.77
Band4	5MHz	16QAM	20375	1RB#0	22.34
Band4	5MHz	16QAM	20375	1RB#12	22.32
Band4	5MHz	16QAM	20375	1RB#24	22.27
Band4	5MHz	16QAM	20375	12RB#0	21.07
Band4	5MHz	16QAM	20375	12RB#6	21.04
Band4	5MHz	16QAM	20375	12RB#13	20.99
Band4	5MHz	16QAM	20375	25RB#0	21.06
Band4	5MHz	64QAM	19975	1RB#0	20.86
Band4	5MHz	64QAM	19975	1RB#12	21.01
Band4	5MHz	64QAM	19975	1RB#24	21.06
Band4	5MHz	64QAM	19975	12RB#0	19.91
Band4	5MHz	64QAM	19975	12RB#6	19.99
Band4	5MHz	64QAM	19975	12RB#13	19.90
Band4	5MHz	64QAM	19975	25RB#0	19.90
Band4	5MHz	64QAM	20175	1RB#0	20.53
Band4	5MHz	64QAM	20175	1RB#12	20.91
Band4	5MHz	64QAM	20175	1RB#24	20.84
Band4	5MHz	64QAM	20175	12RB#0	20.04

Band4	5MHz	64QAM	20175	12RB#6	19.85
Band4	5MHz	64QAM	20175	12RB#13	19.90
Band4	5MHz	64QAM	20175	25RB#0	19.80
Band4	5MHz	64QAM	20375	1RB#0	21.11
Band4	5MHz	64QAM	20375	1RB#12	21.11
Band4	5MHz	64QAM	20375	1RB#24	21.27
Band4	5MHz	64QAM	20375	12RB#0	20.00
Band4	5MHz	64QAM	20375	12RB#6	20.07
Band4	5MHz	64QAM	20375	12RB#13	20.06
Band4	5MHz	64QAM	20375	25RB#0	20.03
Band4	10MHz	QPSK	20000	1RB#0	22.64
Band4	10MHz	QPSK	20000	1RB#24	22.77
Band4	10MHz	QPSK	20000	1RB#49	22.78
Band4	10MHz	QPSK	20000	25RB#0	21.91
Band4	10MHz	QPSK	20000	25RB#12	21.85
Band4	10MHz	QPSK	20000	25RB#25	21.79
Band4	10MHz	QPSK	20000	50RB#0	21.81
Band4	10MHz	QPSK	20175	1RB#0	22.60
Band4	10MHz	QPSK	20175	1RB#24	22.89
Band4	10MHz	QPSK	20175	1RB#49	22.72
Band4	10MHz	QPSK	20175	25RB#0	21.82
Band4	10MHz	QPSK	20175	25RB#12	21.95
Band4	10MHz	QPSK	20175	25RB#25	21.77
Band4	10MHz	QPSK	20175	50RB#0	21.88
Band4	10MHz	QPSK	20350	1RB#0	22.77
Band4	10MHz	QPSK	20350	1RB#24	22.80
Band4	10MHz	QPSK	20350	1RB#49	22.67
Band4	10MHz	QPSK	20350	25RB#0	21.91
Band4	10MHz	QPSK	20350	25RB#12	21.97
Band4	10MHz	QPSK	20350	25RB#25	21.97
Band4	10MHz	QPSK	20350	50RB#0	21.93
Band4	10MHz	16QAM	20000	1RB#0	22.02
Band4	10MHz	16QAM	20000	1RB#24	22.16
Band4	10MHz	16QAM	20000	1RB#49	21.97
Band4	10MHz	16QAM	20000	25RB#0	20.90
Band4	10MHz	16QAM	20000	25RB#12	20.88
Band4	10MHz	16QAM	20000	25RB#25	20.91
Band4	10MHz	16QAM	20000	50RB#0	20.79
Band4	10MHz	16QAM	20175	1RB#0	22.03
Band4	10MHz	16QAM	20175	1RB#24	21.97
Band4	10MHz	16QAM	20175	1RB#49	22.03
Band4	10MHz	16QAM	20175	25RB#0	20.83
Band4	10MHz	16QAM	20175	25RB#12	20.94
Band4	10MHz	16QAM	20175	25RB#25	20.75
Band4	10MHz	16QAM	20175	50RB#0	20.83



Band4	10MHz	16QAM	20350	1RB#0	22.11
Band4	10MHz	16QAM	20350	1RB#24	22.24
Band4	10MHz	16QAM	20350	1RB#49	22.22
Band4	10MHz	16QAM	20350	25RB#0	20.99
Band4	10MHz	16QAM	20350	25RB#12	20.97
Band4	10MHz	16QAM	20350	25RB#25	21.02
Band4	10MHz	16QAM	20350	50RB#0	20.95
Band4	10MHz	64QAM	20000	1RB#0	20.92
Band4	10MHz	64QAM	20000	1RB#24	20.94
Band4	10MHz	64QAM	20000	1RB#49	21.04
Band4	10MHz	64QAM	20000	25RB#0	20.01
Band4	10MHz	64QAM	20000	25RB#12	19.87
Band4	10MHz	64QAM	20000	25RB#25	19.87
Band4	10MHz	64QAM	20000	50RB#0	19.81
Band4	10MHz	64QAM	20175	1RB#0	20.73
Band4	10MHz	64QAM	20175	1RB#24	20.88
Band4	10MHz	64QAM	20175	1RB#49	20.75
Band4	10MHz	64QAM	20175	25RB#0	19.96
Band4	10MHz	64QAM	20175	25RB#12	19.88
Band4	10MHz	64QAM	20175	25RB#25	19.78
Band4	10MHz	64QAM	20175	50RB#0	19.84
Band4	10MHz	64QAM	20350	1RB#0	20.84
Band4	10MHz	64QAM	20350	1RB#24	21.22
Band4	10MHz	64QAM	20350	1RB#49	20.94
Band4	10MHz	64QAM	20350	25RB#0	20.03
Band4	10MHz	64QAM	20350	25RB#12	20.00
Band4	10MHz	64QAM	20350	25RB#25	20.13
Band4	10MHz	64QAM	20350	50RB#0	20.09
Band4	15MHz	QPSK	20025	1RB#0	22.67
Band4	15MHz	QPSK	20025	1RB#38	22.60
Band4	15MHz	QPSK	20025	1RB#74	22.54
Band4	15MHz	QPSK	20025	38RB#0	22.53
Band4	15MHz	QPSK	20025	38RB#18	22.64
Band4	15MHz	QPSK	20025	38RB#37	22.55
Band4	15MHz	QPSK	20025	75RB#0	21.64
Band4	15MHz	QPSK	20175	1RB#0	22.59
Band4	15MHz	QPSK	20175	1RB#38	22.45
Band4	15MHz	QPSK	20175	1RB#74	22.71
Band4	15MHz	QPSK	20175	38RB#0	22.49
Band4	15MHz	QPSK	20175	38RB#18	22.51
Band4	15MHz	QPSK	20175	38RB#37	22.41
Band4	15MHz	QPSK	20175	75RB#0	21.62
Band4	15MHz	QPSK	20325	1RB#0	22.57
Band4	15MHz	QPSK	20325	1RB#38	22.74
Band4	15MHz	QPSK	20325	1RB#74	22.75

Band4	15MHz	QPSK	20325	38RB#0	22.57
Band4	15MHz	QPSK	20325	38RB#18	22.71
Band4	15MHz	QPSK	20325	38RB#37	22.78
Band4	15MHz	QPSK	20325	75RB#0	21.70
Band4	15MHz	16QAM	20025	1RB#0	22.04
Band4	15MHz	16QAM	20025	1RB#38	21.99
Band4	15MHz	16QAM	20025	1RB#74	21.92
Band4	15MHz	16QAM	20025	38RB#0	21.98
Band4	15MHz	16QAM	20025	38RB#18	21.88
Band4	15MHz	16QAM	20025	38RB#37	21.99
Band4	15MHz	16QAM	20025	75RB#0	20.57
Band4	15MHz	16QAM	20175	1RB#0	21.93
Band4	15MHz	16QAM	20175	1RB#38	21.80
Band4	15MHz	16QAM	20175	1RB#74	21.96
Band4	15MHz	16QAM	20175	38RB#0	21.82
Band4	15MHz	16QAM	20175	38RB#18	21.89
Band4	15MHz	16QAM	20175	38RB#37	21.86
Band4	15MHz	16QAM	20175	75RB#0	20.68
Band4	15MHz	16QAM	20325	1RB#0	21.82
Band4	15MHz	16QAM	20325	1RB#38	22.15
Band4	15MHz	16QAM	20325	1RB#74	22.03
Band4	15MHz	16QAM	20325	38RB#0	21.93
Band4	15MHz	16QAM	20325	38RB#18	22.12
Band4	15MHz	16QAM	20325	38RB#37	22.04
Band4	15MHz	16QAM	20325	75RB#0	20.70
Band4	15MHz	64QAM	20025	1RB#0	20.78
Band4	15MHz	64QAM	20025	1RB#38	20.78
Band4	15MHz	64QAM	20025	1RB#74	20.69
Band4	15MHz	64QAM	20025	38RB#0	20.85
Band4	15MHz	64QAM	20025	38RB#18	20.90
Band4	15MHz	64QAM	20025	38RB#37	20.82
Band4	15MHz	64QAM	20025	75RB#0	19.61
Band4	15MHz	64QAM	20175	1RB#0	20.68
Band4	15MHz	64QAM	20175	1RB#38	20.76
Band4	15MHz	64QAM	20175	1RB#74	20.72
Band4	15MHz	64QAM	20175	38RB#0	20.84
Band4	15MHz	64QAM	20175	38RB#18	20.87
Band4	15MHz	64QAM	20175	38RB#37	20.71
Band4	15MHz	64QAM	20175	75RB#0	19.67
Band4	15MHz	64QAM	20325	1RB#0	20.51
Band4	15MHz	64QAM	20325	1RB#38	20.87
Band4	15MHz	64QAM	20325	1RB#74	21.01
Band4	15MHz	64QAM	20325	38RB#0	20.72
Band4	15MHz	64QAM	20325	38RB#18	20.80
Band4	15MHz	64QAM	20325	38RB#37	20.83

Band4	15MHz	64QAM	20325	75RB#0	19.80
Band4	20MHz	QPSK	20050	1RB#0	22.70
Band4	20MHz	QPSK	20050	1RB#49	22.62
Band4	20MHz	QPSK	20050	1RB#99	22.63
Band4	20MHz	QPSK	20050	50RB#0	21.72
Band4	20MHz	QPSK	20050	50RB#25	21.80
Band4	20MHz	QPSK	20050	50RB#50	21.63
Band4	20MHz	QPSK	20050	100RB#0	21.70
Band4	20MHz	QPSK	20175	1RB#0	22.67
Band4	20MHz	QPSK	20175	1RB#49	22.63
Band4	20MHz	QPSK	20175	1RB#99	22.78
Band4	20MHz	QPSK	20175	50RB#0	21.68
Band4	20MHz	QPSK	20175	50RB#25	21.79
Band4	20MHz	QPSK	20175	50RB#50	21.67
Band4	20MHz	QPSK	20175	100RB#0	21.76
Band4	20MHz	QPSK	20300	1RB#0	22.72
Band4	20MHz	QPSK	20300	1RB#49	22.72
Band4	20MHz	QPSK	20300	1RB#99	22.81
Band4	20MHz	QPSK	20300	50RB#0	21.72
Band4	20MHz	QPSK	20300	50RB#25	21.76
Band4	20MHz	QPSK	20300	50RB#50	21.94
Band4	20MHz	QPSK	20300	100RB#0	21.75
Band4	20MHz	16QAM	20050	1RB#0	21.93
Band4	20MHz	16QAM	20050	1RB#49	21.98
Band4	20MHz	16QAM	20050	1RB#99	21.96
Band4	20MHz	16QAM	20050	50RB#0	20.74
Band4	20MHz	16QAM	20050	50RB#25	20.76
Band4	20MHz	16QAM	20050	50RB#50	20.73
Band4	20MHz	16QAM	20050	100RB#0	20.77
Band4	20MHz	16QAM	20175	1RB#0	22.07
Band4	20MHz	16QAM	20175	1RB#49	21.85
Band4	20MHz	16QAM	20175	1RB#99	22.08
Band4	20MHz	16QAM	20175	50RB#0	20.69
Band4	20MHz	16QAM	20175	50RB#25	20.77
Band4	20MHz	16QAM	20175	50RB#50	20.78
Band4	20MHz	16QAM	20175	100RB#0	20.77
Band4	20MHz	16QAM	20300	1RB#0	21.97
Band4	20MHz	16QAM	20300	1RB#49	22.07
Band4	20MHz	16QAM	20300	1RB#99	22.14
Band4	20MHz	16QAM	20300	50RB#0	20.69
Band4	20MHz	16QAM	20300	50RB#25	20.87
Band4	20MHz	16QAM	20300	50RB#50	20.80
Band4	20MHz	16QAM	20300	100RB#0	20.80
Band4	20MHz	64QAM	20050	1RB#0	20.85
Band4	20MHz	64QAM	20050	1RB#49	20.82

Band4	20MHz	64QAM	20050	1RB#99	20.86
Band4	20MHz	64QAM	20050	50RB#0	19.78
Band4	20MHz	64QAM	20050	50RB#25	19.81
Band4	20MHz	64QAM	20050	50RB#50	19.69
Band4	20MHz	64QAM	20050	100RB#0	19.82
Band4	20MHz	64QAM	20175	1RB#0	20.77
Band4	20MHz	64QAM	20175	1RB#49	20.72
Band4	20MHz	64QAM	20175	1RB#99	20.83
Band4	20MHz	64QAM	20175	50RB#0	19.82
Band4	20MHz	64QAM	20175	50RB#25	19.73
Band4	20MHz	64QAM	20175	50RB#50	19.81
Band4	20MHz	64QAM	20175	100RB#0	19.81
Band4	20MHz	64QAM	20300	1RB#0	20.67
Band4	20MHz	64QAM	20300	1RB#49	20.77
Band4	20MHz	64QAM	20300	1RB#99	20.91
Band4	20MHz	64QAM	20300	50RB#0	19.81
Band4	20MHz	64QAM	20300	50RB#25	19.86
Band4	20MHz	64QAM	20300	50RB#50	19.88
Band4	20MHz	64QAM	20300	100RB#0	19.74
Band5	1.4MHz	QPSK	20407	1RB#0	23.68
Band5	1.4MHz	QPSK	20407	1RB#3	23.72
Band5	1.4MHz	QPSK	20407	1RB#5	23.74
Band5	1.4MHz	QPSK	20407	3RB#0	23.87
Band5	1.4MHz	QPSK	20407	3RB#2	23.78
Band5	1.4MHz	QPSK	20407	3RB#3	23.78
Band5	1.4MHz	QPSK	20407	6RB#0	22.66
Band5	1.4MHz	QPSK	20525	1RB#0	23.82
Band5	1.4MHz	QPSK	20525	1RB#3	23.87
Band5	1.4MHz	QPSK	20525	1RB#5	23.90
Band5	1.4MHz	QPSK	20525	3RB#0	24.00
Band5	1.4MHz	QPSK	20525	3RB#2	24.03
Band5	1.4MHz	QPSK	20525	3RB#3	23.99
Band5	1.4MHz	QPSK	20525	6RB#0	22.81
Band5	1.4MHz	QPSK	20643	1RB#0	23.95
Band5	1.4MHz	QPSK	20643	1RB#3	23.88
Band5	1.4MHz	QPSK	20643	1RB#5	23.92
Band5	1.4MHz	QPSK	20643	3RB#0	23.96
Band5	1.4MHz	QPSK	20643	3RB#2	24.00
Band5	1.4MHz	QPSK	20643	3RB#3	23.90
Band5	1.4MHz	QPSK	20643	6RB#0	22.97
Band5	1.4MHz	16QAM	20407	1RB#0	23.03
Band5	1.4MHz	16QAM	20407	1RB#3	23.12
Band5	1.4MHz	16QAM	20407	1RB#5	23.01
Band5	1.4MHz	16QAM	20407	3RB#0	23.03
Band5	1.4MHz	16QAM	20407	3RB#2	23.02

Band5	1.4MHz	16QAM	20407	3RB#3	23.10
Band5	1.4MHz	16QAM	20407	6RB#0	21.98
Band5	1.4MHz	16QAM	20525	1RB#0	23.20
Band5	1.4MHz	16QAM	20525	1RB#3	23.36
Band5	1.4MHz	16QAM	20525	1RB#5	23.35
Band5	1.4MHz	16QAM	20525	3RB#0	23.07
Band5	1.4MHz	16QAM	20525	3RB#2	23.23
Band5	1.4MHz	16QAM	20525	3RB#3	23.01
Band5	1.4MHz	16QAM	20525	6RB#0	21.95
Band5	1.4MHz	16QAM	20643	1RB#0	23.24
Band5	1.4MHz	16QAM	20643	1RB#3	23.25
Band5	1.4MHz	16QAM	20643	1RB#5	23.32
Band5	1.4MHz	16QAM	20643	3RB#0	23.26
Band5	1.4MHz	16QAM	20643	3RB#2	23.12
Band5	1.4MHz	16QAM	20643	3RB#3	23.04
Band5	1.4MHz	16QAM	20643	6RB#0	21.97
Band5	1.4MHz	64QAM	20407	1RB#0	22.02
Band5	1.4MHz	64QAM	20407	1RB#3	22.14
Band5	1.4MHz	64QAM	20407	1RB#5	21.99
Band5	1.4MHz	64QAM	20407	3RB#0	21.88
Band5	1.4MHz	64QAM	20407	3RB#2	21.92
Band5	1.4MHz	64QAM	20407	3RB#3	21.99
Band5	1.4MHz	64QAM	20407	6RB#0	20.83
Band5	1.4MHz	64QAM	20525	1RB#0	22.02
Band5	1.4MHz	64QAM	20525	1RB#3	22.18
Band5	1.4MHz	64QAM	20525	1RB#5	22.24
Band5	1.4MHz	64QAM	20525	3RB#0	22.03
Band5	1.4MHz	64QAM	20525	3RB#2	22.18
Band5	1.4MHz	64QAM	20525	3RB#3	22.01
Band5	1.4MHz	64QAM	20525	6RB#0	20.81
Band5	1.4MHz	64QAM	20643	1RB#0	22.02
Band5	1.4MHz	64QAM	20643	1RB#3	22.21
Band5	1.4MHz	64QAM	20643	1RB#5	21.89
Band5	1.4MHz	64QAM	20643	3RB#0	22.10
Band5	1.4MHz	64QAM	20643	3RB#2	22.22
Band5	1.4MHz	64QAM	20643	3RB#3	21.91
Band5	1.4MHz	64QAM	20643	6RB#0	20.87
Band5	3MHz	QPSK	20415	1RB#0	23.86
Band5	3MHz	QPSK	20415	1RB#7	23.82
Band5	3MHz	QPSK	20415	1RB#14	23.83
Band5	3MHz	QPSK	20415	8RB#0	22.99
Band5	3MHz	QPSK	20415	8RB#4	22.95
Band5	3MHz	QPSK	20415	8RB#7	22.95
Band5	3MHz	QPSK	20415	15RB#0	22.93
Band5	3MHz	QPSK	20525	1RB#0	24.00

Band5	3MHz	QPSK	20525	1RB#7	23.93
Band5	3MHz	QPSK	20525	1RB#14	23.99
Band5	3MHz	QPSK	20525	8RB#0	23.04
Band5	3MHz	QPSK	20525	8RB#4	23.02
Band5	3MHz	QPSK	20525	8RB#7	23.07
Band5	3MHz	QPSK	20525	15RB#0	22.99
Band5	3MHz	QPSK	20635	1RB#0	23.96
Band5	3MHz	QPSK	20635	1RB#7	23.92
Band5	3MHz	QPSK	20635	1RB#14	24.01
Band5	3MHz	QPSK	20635	8RB#0	23.07
Band5	3MHz	QPSK	20635	8RB#4	23.06
Band5	3MHz	QPSK	20635	8RB#7	23.08
Band5	3MHz	QPSK	20635	15RB#0	23.05
Band5	3MHz	16QAM	20415	1RB#0	23.23
Band5	3MHz	16QAM	20415	1RB#7	22.85
Band5	3MHz	16QAM	20415	1RB#14	23.15
Band5	3MHz	16QAM	20415	8RB#0	22.05
Band5	3MHz	16QAM	20415	8RB#4	21.95
Band5	3MHz	16QAM	20415	8RB#7	22.02
Band5	3MHz	16QAM	20415	15RB#0	22.02
Band5	3MHz	16QAM	20525	1RB#0	23.33
Band5	3MHz	16QAM	20525	1RB#7	23.25
Band5	3MHz	16QAM	20525	1RB#14	23.34
Band5	3MHz	16QAM	20525	8RB#0	22.05
Band5	3MHz	16QAM	20525	8RB#4	22.19
Band5	3MHz	16QAM	20525	8RB#7	22.24
Band5	3MHz	16QAM	20525	15RB#0	22.02
Band5	3MHz	16QAM	20635	1RB#0	23.37
Band5	3MHz	16QAM	20635	1RB#7	22.99
Band5	3MHz	16QAM	20635	1RB#14	23.39
Band5	3MHz	16QAM	20635	8RB#0	22.15
Band5	3MHz	16QAM	20635	8RB#4	22.20
Band5	3MHz	16QAM	20635	8RB#7	22.14
Band5	3MHz	16QAM	20635	15RB#0	22.16
Band5	3MHz	64QAM	20415	1RB#0	22.17
Band5	3MHz	64QAM	20415	1RB#7	21.94
Band5	3MHz	64QAM	20415	1RB#14	22.11
Band5	3MHz	64QAM	20415	8RB#0	21.01
Band5	3MHz	64QAM	20415	8RB#4	20.99
Band5	3MHz	64QAM	20415	8RB#7	20.92
Band5	3MHz	64QAM	20415	15RB#0	20.93
Band5	3MHz	64QAM	20525	1RB#0	22.22
Band5	3MHz	64QAM	20525	1RB#7	22.13
Band5	3MHz	64QAM	20525	1RB#14	22.08
Band5	3MHz	64QAM	20525	8RB#0	21.13

Band5	3MHz	64QAM	20525	8RB#4	21.01
Band5	3MHz	64QAM	20525	8RB#7	21.08
Band5	3MHz	64QAM	20525	15RB#0	20.91
Band5	3MHz	64QAM	20635	1RB#0	21.81
Band5	3MHz	64QAM	20635	1RB#7	22.01
Band5	3MHz	64QAM	20635	1RB#14	22.21
Band5	3MHz	64QAM	20635	8RB#0	21.13
Band5	3MHz	64QAM	20635	8RB#4	21.00
Band5	3MHz	64QAM	20635	8RB#7	21.09
Band5	3MHz	64QAM	20635	15RB#0	21.08
Band5	5MHz	QPSK	20425	1RB#0	23.90
Band5	5MHz	QPSK	20425	1RB#12	23.74
Band5	5MHz	QPSK	20425	1RB#24	23.82
Band5	5MHz	QPSK	20425	12RB#0	23.00
Band5	5MHz	QPSK	20425	12RB#6	22.91
Band5	5MHz	QPSK	20425	12RB#13	22.90
Band5	5MHz	QPSK	20425	25RB#0	22.95
Band5	5MHz	QPSK	20525	1RB#0	24.04
Band5	5MHz	QPSK	20525	1RB#12	23.75
Band5	5MHz	QPSK	20525	1RB#24	23.98
Band5	5MHz	QPSK	20525	12RB#0	23.13
Band5	5MHz	QPSK	20525	12RB#6	22.95
Band5	5MHz	QPSK	20525	12RB#13	22.97
Band5	5MHz	QPSK	20525	25RB#0	22.99
Band5	5MHz	QPSK	20625	1RB#0	24.00
Band5	5MHz	QPSK	20625	1RB#12	23.93
Band5	5MHz	QPSK	20625	1RB#24	23.82
Band5	5MHz	QPSK	20625	12RB#0	23.00
Band5	5MHz	QPSK	20625	12RB#6	22.93
Band5	5MHz	QPSK	20625	12RB#13	23.05
Band5	5MHz	QPSK	20625	25RB#0	23.04
Band5	5MHz	16QAM	20425	1RB#0	23.21
Band5	5MHz	16QAM	20425	1RB#12	23.13
Band5	5MHz	16QAM	20425	1RB#24	23.23
Band5	5MHz	16QAM	20425	12RB#0	22.00
Band5	5MHz	16QAM	20425	12RB#6	21.95
Band5	5MHz	16QAM	20425	12RB#13	21.97
Band5	5MHz	16QAM	20425	25RB#0	21.98
Band5	5MHz	16QAM	20525	1RB#0	23.33
Band5	5MHz	16QAM	20525	1RB#12	23.19
Band5	5MHz	16QAM	20525	1RB#24	23.55
Band5	5MHz	16QAM	20525	12RB#0	22.08
Band5	5MHz	16QAM	20525	12RB#6	22.14
Band5	5MHz	16QAM	20525	12RB#13	22.12
Band5	5MHz	16QAM	20525	25RB#0	21.99

Band5	5MHz	16QAM	20625	1RB#0	23.39
Band5	5MHz	16QAM	20625	1RB#12	23.14
Band5	5MHz	16QAM	20625	1RB#24	23.34
Band5	5MHz	16QAM	20625	12RB#0	22.01
Band5	5MHz	16QAM	20625	12RB#6	21.85
Band5	5MHz	16QAM	20625	12RB#13	22.18
Band5	5MHz	16QAM	20625	25RB#0	22.02
Band5	5MHz	64QAM	20425	1RB#0	22.06
Band5	5MHz	64QAM	20425	1RB#12	22.05
Band5	5MHz	64QAM	20425	1RB#24	22.16
Band5	5MHz	64QAM	20425	12RB#0	21.03
Band5	5MHz	64QAM	20425	12RB#6	20.98
Band5	5MHz	64QAM	20425	12RB#13	21.01
Band5	5MHz	64QAM	20425	25RB#0	20.99
Band5	5MHz	64QAM	20525	1RB#0	22.00
Band5	5MHz	64QAM	20525	1RB#12	22.04
Band5	5MHz	64QAM	20525	1RB#24	21.96
Band5	5MHz	64QAM	20525	12RB#0	21.12
Band5	5MHz	64QAM	20525	12RB#6	20.98
Band5	5MHz	64QAM	20525	12RB#13	21.16
Band5	5MHz	64QAM	20525	25RB#0	20.99
Band5	5MHz	64QAM	20625	1RB#0	22.00
Band5	5MHz	64QAM	20625	1RB#12	22.00
Band5	5MHz	64QAM	20625	1RB#24	22.18
Band5	5MHz	64QAM	20625	12RB#0	21.18
Band5	5MHz	64QAM	20625	12RB#6	21.08
Band5	5MHz	64QAM	20625	12RB#13	21.05
Band5	5MHz	64QAM	20625	25RB#0	21.12
Band5	10MHz	QPSK	20450	1RB#0	23.94
Band5	10MHz	QPSK	20450	1RB#24	23.99
Band5	10MHz	QPSK	20450	1RB#49	23.77
Band5	10MHz	QPSK	20450	25RB#0	22.97
Band5	10MHz	QPSK	20450	25RB#12	23.00
Band5	10MHz	QPSK	20450	25RB#25	22.99
Band5	10MHz	QPSK	20450	50RB#0	23.00
Band5	10MHz	QPSK	20525	1RB#0	24.13
Band5	10MHz	QPSK	20525	1RB#24	24.08
Band5	10MHz	QPSK	20525	1RB#49	24.02
Band5	10MHz	QPSK	20525	25RB#0	23.01
Band5	10MHz	QPSK	20525	25RB#12	23.00
Band5	10MHz	QPSK	20525	25RB#25	23.06
Band5	10MHz	QPSK	20525	50RB#0	22.96
Band5	10MHz	QPSK	20600	1RB#0	24.22
Band5	10MHz	QPSK	20600	1RB#24	23.95
Band5	10MHz	QPSK	20600	1RB#49	24.19



Band5	10MHz	QPSK	20600	25RB#0	23.03
Band5	10MHz	QPSK	20600	25RB#12	23.18
Band5	10MHz	QPSK	20600	25RB#25	23.15
Band5	10MHz	QPSK	20600	50RB#0	23.13
Band5	10MHz	16QAM	20450	1RB#0	23.16
Band5	10MHz	16QAM	20450	1RB#24	23.35
Band5	10MHz	16QAM	20450	1RB#49	23.15
Band5	10MHz	16QAM	20450	25RB#0	21.95
Band5	10MHz	16QAM	20450	25RB#12	22.07
Band5	10MHz	16QAM	20450	25RB#25	21.97
Band5	10MHz	16QAM	20450	50RB#0	22.02
Band5	10MHz	16QAM	20525	1RB#0	23.45
Band5	10MHz	16QAM	20525	1RB#24	23.29
Band5	10MHz	16QAM	20525	1RB#49	23.15
Band5	10MHz	16QAM	20525	25RB#0	22.09
Band5	10MHz	16QAM	20525	25RB#12	22.04
Band5	10MHz	16QAM	20525	25RB#25	22.09
Band5	10MHz	16QAM	20525	50RB#0	22.02
Band5	10MHz	16QAM	20600	1RB#0	23.37
Band5	10MHz	16QAM	20600	1RB#24	23.32
Band5	10MHz	16QAM	20600	1RB#49	23.38
Band5	10MHz	16QAM	20600	25RB#0	21.91
Band5	10MHz	16QAM	20600	25RB#12	22.04
Band5	10MHz	16QAM	20600	25RB#25	22.12
Band5	10MHz	16QAM	20600	50RB#0	22.04
Band5	10MHz	64QAM	20450	1RB#0	21.95
Band5	10MHz	64QAM	20450	1RB#24	22.09
Band5	10MHz	64QAM	20450	1RB#49	22.04
Band5	10MHz	64QAM	20450	25RB#0	20.97
Band5	10MHz	64QAM	20450	25RB#12	21.00
Band5	10MHz	64QAM	20450	25RB#25	21.07
Band5	10MHz	64QAM	20450	50RB#0	20.94
Band5	10MHz	64QAM	20525	1RB#0	22.18
Band5	10MHz	64QAM	20525	1RB#24	22.07
Band5	10MHz	64QAM	20525	1RB#49	22.03
Band5	10MHz	64QAM	20525	25RB#0	21.12
Band5	10MHz	64QAM	20525	25RB#12	21.13
Band5	10MHz	64QAM	20525	25RB#25	21.15
Band5	10MHz	64QAM	20525	50RB#0	20.92
Band5	10MHz	64QAM	20600	1RB#0	22.23
Band5	10MHz	64QAM	20600	1RB#24	22.15
Band5	10MHz	64QAM	20600	1RB#49	22.11
Band5	10MHz	64QAM	20600	25RB#0	21.11
Band5	10MHz	64QAM	20600	25RB#12	21.11
Band5	10MHz	64QAM	20600	25RB#25	21.17

Band5	10MHz	64QAM	20600	50RB#0	21.09
Band7	5MHz	QPSK	20775	1RB#0	23.34
Band7	5MHz	QPSK	20775	1RB#12	23.39
Band7	5MHz	QPSK	20775	1RB#24	23.51
Band7	5MHz	QPSK	20775	12RB#0	22.49
Band7	5MHz	QPSK	20775	12RB#6	22.63
Band7	5MHz	QPSK	20775	12RB#13	22.63
Band7	5MHz	QPSK	20775	25RB#0	22.62
Band7	5MHz	QPSK	21100	1RB#0	23.54
Band7	5MHz	QPSK	21100	1RB#12	23.46
Band7	5MHz	QPSK	21100	1RB#24	23.53
Band7	5MHz	QPSK	21100	12RB#0	22.56
Band7	5MHz	QPSK	21100	12RB#6	22.77
Band7	5MHz	QPSK	21100	12RB#13	22.78
Band7	5MHz	QPSK	21100	25RB#0	22.71
Band7	5MHz	QPSK	21425	1RB#0	23.61
Band7	5MHz	QPSK	21425	1RB#12	23.49
Band7	5MHz	QPSK	21425	1RB#24	23.44
Band7	5MHz	QPSK	21425	12RB#0	22.67
Band7	5MHz	QPSK	21425	12RB#6	22.74
Band7	5MHz	QPSK	21425	12RB#13	22.78
Band7	5MHz	QPSK	21425	25RB#0	22.68
Band7	5MHz	16QAM	20775	1RB#0	22.82
Band7	5MHz	16QAM	20775	1RB#12	22.85
Band7	5MHz	16QAM	20775	1RB#24	22.83
Band7	5MHz	16QAM	20775	12RB#0	21.61
Band7	5MHz	16QAM	20775	12RB#6	21.73
Band7	5MHz	16QAM	20775	12RB#13	21.73
Band7	5MHz	16QAM	20775	25RB#0	21.61
Band7	5MHz	16QAM	21100	1RB#0	22.88
Band7	5MHz	16QAM	21100	1RB#12	22.78
Band7	5MHz	16QAM	21100	1RB#24	22.84
Band7	5MHz	16QAM	21100	12RB#0	21.67
Band7	5MHz	16QAM	21100	12RB#6	21.78
Band7	5MHz	16QAM	21100	12RB#13	21.82
Band7	5MHz	16QAM	21100	25RB#0	21.75
Band7	5MHz	16QAM	21425	1RB#0	23.07
Band7	5MHz	16QAM	21425	1RB#12	22.90
Band7	5MHz	16QAM	21425	1RB#24	22.83
Band7	5MHz	16QAM	21425	12RB#0	21.72
Band7	5MHz	16QAM	21425	12RB#6	21.73
Band7	5MHz	16QAM	21425	12RB#13	21.79
Band7	5MHz	16QAM	21425	25RB#0	21.69
Band7	5MHz	64QAM	20775	1RB#0	22.64
Band7	5MHz	64QAM	20775	1RB#12	22.60

Band7	5MHz	64QAM	20775	1RB#24	22.53
Band7	5MHz	64QAM	20775	12RB#0	21.55
Band7	5MHz	64QAM	20775	12RB#6	21.58
Band7	5MHz	64QAM	20775	12RB#13	21.64
Band7	5MHz	64QAM	20775	25RB#0	21.57
Band7	5MHz	64QAM	21100	1RB#0	22.67
Band7	5MHz	64QAM	21100	1RB#12	22.81
Band7	5MHz	64QAM	21100	1RB#24	22.81
Band7	5MHz	64QAM	21100	12RB#0	21.60
Band7	5MHz	64QAM	21100	12RB#6	21.77
Band7	5MHz	64QAM	21100	12RB#13	21.85
Band7	5MHz	64QAM	21100	25RB#0	21.75
Band7	5MHz	64QAM	21425	1RB#0	22.76
Band7	5MHz	64QAM	21425	1RB#12	22.81
Band7	5MHz	64QAM	21425	1RB#24	22.78
Band7	5MHz	64QAM	21425	12RB#0	21.65
Band7	5MHz	64QAM	21425	12RB#6	21.69
Band7	5MHz	64QAM	21425	12RB#13	21.70
Band7	5MHz	64QAM	21425	25RB#0	21.67
Band7	10MHz	QPSK	20800	1RB#0	23.19
Band7	10MHz	QPSK	20800	1RB#24	23.33
Band7	10MHz	QPSK	20800	1RB#49	23.15
Band7	10MHz	QPSK	20800	25RB#0	22.54
Band7	10MHz	QPSK	20800	25RB#12	22.53
Band7	10MHz	QPSK	20800	25RB#25	22.44
Band7	10MHz	QPSK	20800	50RB#0	22.51
Band7	10MHz	QPSK	21100	1RB#0	23.40
Band7	10MHz	QPSK	21100	1RB#24	23.43
Band7	10MHz	QPSK	21100	1RB#49	23.51
Band7	10MHz	QPSK	21100	25RB#0	22.48
Band7	10MHz	QPSK	21100	25RB#12	22.68
Band7	10MHz	QPSK	21100	25RB#25	22.69
Band7	10MHz	QPSK	21100	50RB#0	22.56
Band7	10MHz	QPSK	21400	1RB#0	23.56
Band7	10MHz	QPSK	21400	1RB#24	23.49
Band7	10MHz	QPSK	21400	1RB#49	23.13
Band7	10MHz	QPSK	21400	25RB#0	22.64
Band7	10MHz	QPSK	21400	25RB#12	22.58
Band7	10MHz	QPSK	21400	25RB#25	22.60
Band7	10MHz	QPSK	21400	50RB#0	22.61
Band7	10MHz	16QAM	20800	1RB#0	22.72
Band7	10MHz	16QAM	20800	1RB#24	22.76
Band7	10MHz	16QAM	20800	1RB#49	22.62
Band7	10MHz	16QAM	20800	25RB#0	21.57
Band7	10MHz	16QAM	20800	25RB#12	21.55

Band7	10MHz	16QAM	20800	25RB#25	21.47
Band7	10MHz	16QAM	20800	50RB#0	21.53
Band7	10MHz	16QAM	21100	1RB#0	22.79
Band7	10MHz	16QAM	21100	1RB#24	22.83
Band7	10MHz	16QAM	21100	1RB#49	22.92
Band7	10MHz	16QAM	21100	25RB#0	21.58
Band7	10MHz	16QAM	21100	25RB#12	21.65
Band7	10MHz	16QAM	21100	25RB#25	21.65
Band7	10MHz	16QAM	21100	50RB#0	21.59
Band7	10MHz	16QAM	21400	1RB#0	22.91
Band7	10MHz	16QAM	21400	1RB#24	22.81
Band7	10MHz	16QAM	21400	1RB#49	22.80
Band7	10MHz	16QAM	21400	25RB#0	21.60
Band7	10MHz	16QAM	21400	25RB#12	21.64
Band7	10MHz	16QAM	21400	25RB#25	21.56
Band7	10MHz	16QAM	21400	50RB#0	21.55
Band7	10MHz	64QAM	20800	1RB#0	22.47
Band7	10MHz	64QAM	20800	1RB#24	22.26
Band7	10MHz	64QAM	20800	1RB#49	22.37
Band7	10MHz	64QAM	20800	25RB#0	21.57
Band7	10MHz	64QAM	20800	25RB#12	21.47
Band7	10MHz	64QAM	20800	25RB#25	21.46
Band7	10MHz	64QAM	20800	50RB#0	21.43
Band7	10MHz	64QAM	21100	1RB#0	22.51
Band7	10MHz	64QAM	21100	1RB#24	22.58
Band7	10MHz	64QAM	21100	1RB#49	22.58
Band7	10MHz	64QAM	21100	25RB#0	21.39
Band7	10MHz	64QAM	21100	25RB#12	21.63
Band7	10MHz	64QAM	21100	25RB#25	21.56
Band7	10MHz	64QAM	21100	50RB#0	21.50
Band7	10MHz	64QAM	21400	1RB#0	22.58
Band7	10MHz	64QAM	21400	1RB#24	22.56
Band7	10MHz	64QAM	21400	1RB#49	22.56
Band7	10MHz	64QAM	21400	25RB#0	21.70
Band7	10MHz	64QAM	21400	25RB#12	21.63
Band7	10MHz	64QAM	21400	25RB#25	21.55
Band7	10MHz	64QAM	21400	50RB#0	21.56
Band7	15MHz	QPSK	20825	1RB#0	23.09
Band7	15MHz	QPSK	20825	1RB#38	23.02
Band7	15MHz	QPSK	20825	1RB#74	23.13
Band7	15MHz	QPSK	20825	38RB#0	23.10
Band7	15MHz	QPSK	20825	38RB#18	23.15
Band7	15MHz	QPSK	20825	38RB#37	23.13
Band7	15MHz	QPSK	20825	75RB#0	22.36
Band7	15MHz	QPSK	21100	1RB#0	23.20

Band7	15MHz	QPSK	21100	1RB#38	23.25
Band7	15MHz	QPSK	21100	1RB#74	23.32
Band7	15MHz	QPSK	21100	38RB#0	23.16
Band7	15MHz	QPSK	21100	38RB#18	23.35
Band7	15MHz	QPSK	21100	38RB#37	23.25
Band7	15MHz	QPSK	21100	75RB#0	22.48
Band7	15MHz	QPSK	21375	1RB#0	23.37
Band7	15MHz	QPSK	21375	1RB#38	23.24
Band7	15MHz	QPSK	21375	1RB#74	23.09
Band7	15MHz	QPSK	21375	38RB#0	23.33
Band7	15MHz	QPSK	21375	38RB#18	23.32
Band7	15MHz	QPSK	21375	38RB#37	23.25
Band7	15MHz	QPSK	21375	75RB#0	22.47
Band7	15MHz	16QAM	20825	1RB#0	22.61
Band7	15MHz	16QAM	20825	1RB#38	22.53
Band7	15MHz	16QAM	20825	1RB#74	22.55
Band7	15MHz	16QAM	20825	38RB#0	22.52
Band7	15MHz	16QAM	20825	38RB#18	22.70
Band7	15MHz	16QAM	20825	38RB#37	22.84
Band7	15MHz	16QAM	20825	75RB#0	21.36
Band7	15MHz	16QAM	21100	1RB#0	22.55
Band7	15MHz	16QAM	21100	1RB#38	22.76
Band7	15MHz	16QAM	21100	1RB#74	22.66
Band7	15MHz	16QAM	21100	38RB#0	22.58
Band7	15MHz	16QAM	21100	38RB#18	22.78
Band7	15MHz	16QAM	21100	38RB#37	22.76
Band7	15MHz	16QAM	21100	75RB#0	21.48
Band7	15MHz	16QAM	21375	1RB#0	22.68
Band7	15MHz	16QAM	21375	1RB#38	22.79
Band7	15MHz	16QAM	21375	1RB#74	22.65
Band7	15MHz	16QAM	21375	38RB#0	22.70
Band7	15MHz	16QAM	21375	38RB#18	22.64
Band7	15MHz	16QAM	21375	38RB#37	22.75
Band7	15MHz	16QAM	21375	75RB#0	21.46
Band7	15MHz	64QAM	20825	1RB#0	20.63
Band7	15MHz	64QAM	20825	1RB#38	21.24
Band7	15MHz	64QAM	20825	1RB#74	21.19
Band7	15MHz	64QAM	20825	38RB#0	20.57
Band7	15MHz	64QAM	20825	38RB#18	20.95
Band7	15MHz	64QAM	20825	38RB#37	20.99
Band7	15MHz	64QAM	20825	75RB#0	20.12
Band7	15MHz	64QAM	21100	1RB#0	20.81
Band7	15MHz	64QAM	21100	1RB#38	21.18
Band7	15MHz	64QAM	21100	1RB#74	21.54
Band7	15MHz	64QAM	21100	38RB#0	20.79

Band7	15MHz	64QAM	21100	38RB#18	20.95
Band7	15MHz	64QAM	21100	38RB#37	21.15
Band7	15MHz	64QAM	21100	75RB#0	20.33
Band7	15MHz	64QAM	21375	1RB#0	21.56
Band7	15MHz	64QAM	21375	1RB#38	21.17
Band7	15MHz	64QAM	21375	1RB#74	21.08
Band7	15MHz	64QAM	21375	38RB#0	21.52
Band7	15MHz	64QAM	21375	38RB#18	21.39
Band7	15MHz	64QAM	21375	38RB#37	21.19
Band7	15MHz	64QAM	21375	75RB#0	20.43
Band7	20MHz	QPSK	20850	1RB#0	23.25
Band7	20MHz	QPSK	20850	1RB#49	23.17
Band7	20MHz	QPSK	20850	1RB#99	23.32
Band7	20MHz	QPSK	20850	50RB#0	22.42
Band7	20MHz	QPSK	20850	50RB#25	22.51
Band7	20MHz	QPSK	20850	50RB#50	22.48
Band7	20MHz	QPSK	20850	100RB#0	22.45
Band7	20MHz	QPSK	21100	1RB#0	23.30
Band7	20MHz	QPSK	21100	1RB#49	23.33
Band7	20MHz	QPSK	21100	1RB#99	23.38
Band7	20MHz	QPSK	21100	50RB#0	22.52
Band7	20MHz	QPSK	21100	50RB#25	22.63
Band7	20MHz	QPSK	21100	50RB#50	22.64
Band7	20MHz	QPSK	21100	100RB#0	22.61
Band7	20MHz	QPSK	21350	1RB#0	23.45
Band7	20MHz	QPSK	21350	1RB#49	23.31
Band7	20MHz	QPSK	21350	1RB#99	23.26
Band7	20MHz	QPSK	21350	50RB#0	22.64
Band7	20MHz	QPSK	21350	50RB#25	22.65
Band7	20MHz	QPSK	21350	50RB#50	22.52
Band7	20MHz	QPSK	21350	100RB#0	22.58
Band7	20MHz	16QAM	20850	1RB#0	22.67
Band7	20MHz	16QAM	20850	1RB#49	22.57
Band7	20MHz	16QAM	20850	1RB#99	22.78
Band7	20MHz	16QAM	20850	50RB#0	21.35
Band7	20MHz	16QAM	20850	50RB#25	21.53
Band7	20MHz	16QAM	20850	50RB#50	21.41
Band7	20MHz	16QAM	20850	100RB#0	21.48
Band7	20MHz	16QAM	21100	1RB#0	22.73
Band7	20MHz	16QAM	21100	1RB#49	22.65
Band7	20MHz	16QAM	21100	1RB#99	22.76
Band7	20MHz	16QAM	21100	50RB#0	21.52
Band7	20MHz	16QAM	21100	50RB#25	21.59
Band7	20MHz	16QAM	21100	50RB#50	21.66
Band7	20MHz	16QAM	21100	100RB#0	21.63

Band7	20MHz	16QAM	21350	1RB#0	22.84
Band7	20MHz	16QAM	21350	1RB#49	22.76
Band7	20MHz	16QAM	21350	1RB#99	22.66
Band7	20MHz	16QAM	21350	50RB#0	21.62
Band7	20MHz	16QAM	21350	50RB#25	21.57
Band7	20MHz	16QAM	21350	50RB#50	21.58
Band7	20MHz	16QAM	21350	100RB#0	21.62
Band7	20MHz	64QAM	20850	1RB#0	20.96
Band7	20MHz	64QAM	20850	1RB#49	21.45
Band7	20MHz	64QAM	20850	1RB#99	21.21
Band7	20MHz	64QAM	20850	50RB#0	20.41
Band7	20MHz	64QAM	20850	50RB#25	20.48
Band7	20MHz	64QAM	20850	50RB#50	20.44
Band7	20MHz	64QAM	20850	100RB#0	20.51
Band7	20MHz	64QAM	21100	1RB#0	21.14
Band7	20MHz	64QAM	21100	1RB#49	21.57
Band7	20MHz	64QAM	21100	1RB#99	21.61
Band7	20MHz	64QAM	21100	50RB#0	20.38
Band7	20MHz	64QAM	21100	50RB#25	20.66
Band7	20MHz	64QAM	21100	50RB#50	20.65
Band7	20MHz	64QAM	21100	100RB#0	20.62
Band7	20MHz	64QAM	21350	1RB#0	21.69
Band7	20MHz	64QAM	21350	1RB#49	21.51
Band7	20MHz	64QAM	21350	1RB#99	21.45
Band7	20MHz	64QAM	21350	50RB#0	20.63
Band7	20MHz	64QAM	21350	50RB#25	20.64
Band7	20MHz	64QAM	21350	50RB#50	20.59
Band7	20MHz	64QAM	21350	100RB#0	20.66
Band12	1.4MHz	QPSK	23017	1RB#0	23.22
Band12	1.4MHz	QPSK	23017	1RB#3	23.17
Band12	1.4MHz	QPSK	23017	1RB#5	23.26
Band12	1.4MHz	QPSK	23017	3RB#0	23.30
Band12	1.4MHz	QPSK	23017	3RB#2	23.37
Band12	1.4MHz	QPSK	23017	3RB#3	23.31
Band12	1.4MHz	QPSK	23017	6RB#0	22.36
Band12	1.4MHz	QPSK	23095	1RB#0	23.19
Band12	1.4MHz	QPSK	23095	1RB#3	23.12
Band12	1.4MHz	QPSK	23095	1RB#5	23.18
Band12	1.4MHz	QPSK	23095	3RB#0	23.21
Band12	1.4MHz	QPSK	23095	3RB#2	23.22
Band12	1.4MHz	QPSK	23095	3RB#3	23.24
Band12	1.4MHz	QPSK	23095	6RB#0	22.21
Band12	1.4MHz	QPSK	23173	1RB#0	23.12
Band12	1.4MHz	QPSK	23173	1RB#3	23.15
Band12	1.4MHz	QPSK	23173	1RB#5	23.03

Band12	1.4MHz	QPSK	23173	3RB#0	23.22
Band12	1.4MHz	QPSK	23173	3RB#2	23.19
Band12	1.4MHz	QPSK	23173	3RB#3	23.13
Band12	1.4MHz	QPSK	23173	6RB#0	22.10
Band12	1.4MHz	16QAM	23017	1RB#0	22.73
Band12	1.4MHz	16QAM	23017	1RB#3	22.62
Band12	1.4MHz	16QAM	23017	1RB#5	22.53
Band12	1.4MHz	16QAM	23017	3RB#0	22.45
Band12	1.4MHz	16QAM	23017	3RB#2	22.52
Band12	1.4MHz	16QAM	23017	3RB#3	22.48
Band12	1.4MHz	16QAM	23017	6RB#0	21.36
Band12	1.4MHz	16QAM	23095	1RB#0	22.48
Band12	1.4MHz	16QAM	23095	1RB#3	22.56
Band12	1.4MHz	16QAM	23095	1RB#5	22.46
Band12	1.4MHz	16QAM	23095	3RB#0	22.42
Band12	1.4MHz	16QAM	23095	3RB#2	22.45
Band12	1.4MHz	16QAM	23095	3RB#3	22.36
Band12	1.4MHz	16QAM	23095	6RB#0	21.28
Band12	1.4MHz	16QAM	23173	1RB#0	22.55
Band12	1.4MHz	16QAM	23173	1RB#3	22.43
Band12	1.4MHz	16QAM	23173	1RB#5	22.38
Band12	1.4MHz	16QAM	23173	3RB#0	22.27
Band12	1.4MHz	16QAM	23173	3RB#2	22.45
Band12	1.4MHz	16QAM	23173	3RB#3	22.21
Band12	1.4MHz	16QAM	23173	6RB#0	21.29
Band12	1.4MHz	64QAM	23017	1RB#0	21.55
Band12	1.4MHz	64QAM	23017	1RB#3	21.51
Band12	1.4MHz	64QAM	23017	1RB#5	21.41
Band12	1.4MHz	64QAM	23017	3RB#0	21.51
Band12	1.4MHz	64QAM	23017	3RB#2	21.70
Band12	1.4MHz	64QAM	23017	3RB#3	21.34
Band12	1.4MHz	64QAM	23017	6RB#0	20.41
Band12	1.4MHz	64QAM	23095	1RB#0	21.33
Band12	1.4MHz	64QAM	23095	1RB#3	21.32
Band12	1.4MHz	64QAM	23095	1RB#5	21.35
Band12	1.4MHz	64QAM	23095	3RB#0	21.40
Band12	1.4MHz	64QAM	23095	3RB#2	21.46
Band12	1.4MHz	64QAM	23095	3RB#3	21.23
Band12	1.4MHz	64QAM	23095	6RB#0	20.11
Band12	1.4MHz	64QAM	23173	1RB#0	21.42
Band12	1.4MHz	64QAM	23173	1RB#3	21.37
Band12	1.4MHz	64QAM	23173	1RB#5	21.33
Band12	1.4MHz	64QAM	23173	3RB#0	21.31
Band12	1.4MHz	64QAM	23173	3RB#2	21.48
Band12	1.4MHz	64QAM	23173	3RB#3	21.13



Band12	1.4MHz	64QAM	23173	6RB#0	20.25
Band12	3MHz	QPSK	23025	1RB#0	23.53
Band12	3MHz	QPSK	23025	1RB#7	23.14
Band12	3MHz	QPSK	23025	1RB#14	23.32
Band12	3MHz	QPSK	23025	8RB#0	22.46
Band12	3MHz	QPSK	23025	8RB#4	22.42
Band12	3MHz	QPSK	23025	8RB#7	22.42
Band12	3MHz	QPSK	23025	15RB#0	22.46
Band12	3MHz	QPSK	23095	1RB#0	23.39
Band12	3MHz	QPSK	23095	1RB#7	23.20
Band12	3MHz	QPSK	23095	1RB#14	23.19
Band12	3MHz	QPSK	23095	8RB#0	21.67
Band12	3MHz	QPSK	23095	8RB#4	22.40
Band12	3MHz	QPSK	23095	8RB#7	22.29
Band12	3MHz	QPSK	23095	15RB#0	22.25
Band12	3MHz	QPSK	23165	1RB#0	23.27
Band12	3MHz	QPSK	23165	1RB#7	23.11
Band12	3MHz	QPSK	23165	1RB#14	23.15
Band12	3MHz	QPSK	23165	8RB#0	22.09
Band12	3MHz	QPSK	23165	8RB#4	22.31
Band12	3MHz	QPSK	23165	8RB#7	22.30
Band12	3MHz	QPSK	23165	15RB#0	22.26
Band12	3MHz	16QAM	23025	1RB#0	22.76
Band12	3MHz	16QAM	23025	1RB#7	22.63
Band12	3MHz	16QAM	23025	1RB#14	22.62
Band12	3MHz	16QAM	23025	8RB#0	21.54
Band12	3MHz	16QAM	23025	8RB#4	21.62
Band12	3MHz	16QAM	23025	8RB#7	21.33
Band12	3MHz	16QAM	23025	15RB#0	21.46
Band12	3MHz	16QAM	23095	1RB#0	22.71
Band12	3MHz	16QAM	23095	1RB#7	22.60
Band12	3MHz	16QAM	23095	1RB#14	22.57
Band12	3MHz	16QAM	23095	8RB#0	21.44
Band12	3MHz	16QAM	23095	8RB#4	21.58
Band12	3MHz	16QAM	23095	8RB#7	21.40
Band12	3MHz	16QAM	23095	15RB#0	21.39
Band12	3MHz	16QAM	23165	1RB#0	22.52
Band12	3MHz	16QAM	23165	1RB#7	22.50
Band12	3MHz	16QAM	23165	1RB#14	22.48
Band12	3MHz	16QAM	23165	8RB#0	21.19
Band12	3MHz	16QAM	23165	8RB#4	21.39
Band12	3MHz	16QAM	23165	8RB#7	21.32
Band12	3MHz	16QAM	23165	15RB#0	21.21
Band12	3MHz	64QAM	23025	1RB#0	21.77
Band12	3MHz	64QAM	23025	1RB#7	21.45

Band12	3MHz	64QAM	23025	1RB#14	21.16
Band12	3MHz	64QAM	23025	8RB#0	20.51
Band12	3MHz	64QAM	23025	8RB#4	20.45
Band12	3MHz	64QAM	23025	8RB#7	20.43
Band12	3MHz	64QAM	23025	15RB#0	20.47
Band12	3MHz	64QAM	23095	1RB#0	21.22
Band12	3MHz	64QAM	23095	1RB#7	21.41
Band12	3MHz	64QAM	23095	1RB#14	20.95
Band12	3MHz	64QAM	23095	8RB#0	20.35
Band12	3MHz	64QAM	23095	8RB#4	20.50
Band12	3MHz	64QAM	23095	8RB#7	20.39
Band12	3MHz	64QAM	23095	15RB#0	20.36
Band12	3MHz	64QAM	23165	1RB#0	21.33
Band12	3MHz	64QAM	23165	1RB#7	21.47
Band12	3MHz	64QAM	23165	1RB#14	21.31
Band12	3MHz	64QAM	23165	8RB#0	20.26
Band12	3MHz	64QAM	23165	8RB#4	20.33
Band12	3MHz	64QAM	23165	8RB#7	20.26
Band12	3MHz	64QAM	23165	15RB#0	20.23
Band12	5MHz	QPSK	23035	1RB#0	23.36
Band12	5MHz	QPSK	23035	1RB#12	23.26
Band12	5MHz	QPSK	23035	1RB#24	23.27
Band12	5MHz	QPSK	23035	12RB#0	22.48
Band12	5MHz	QPSK	23035	12RB#6	22.45
Band12	5MHz	QPSK	23035	12RB#13	22.42
Band12	5MHz	QPSK	23035	25RB#0	22.46
Band12	5MHz	QPSK	23095	1RB#0	23.28
Band12	5MHz	QPSK	23095	1RB#12	23.24
Band12	5MHz	QPSK	23095	1RB#24	23.23
Band12	5MHz	QPSK	23095	12RB#0	22.37
Band12	5MHz	QPSK	23095	12RB#6	22.34
Band12	5MHz	QPSK	23095	12RB#13	22.39
Band12	5MHz	QPSK	23095	25RB#0	22.32
Band12	5MHz	QPSK	23155	1RB#0	23.26
Band12	5MHz	QPSK	23155	1RB#12	23.00
Band12	5MHz	QPSK	23155	1RB#24	23.20
Band12	5MHz	QPSK	23155	12RB#0	22.30
Band12	5MHz	QPSK	23155	12RB#6	22.22
Band12	5MHz	QPSK	23155	12RB#13	22.31
Band12	5MHz	QPSK	23155	25RB#0	22.30
Band12	5MHz	16QAM	23035	1RB#0	22.72
Band12	5MHz	16QAM	23035	1RB#12	22.78
Band12	5MHz	16QAM	23035	1RB#24	22.59
Band12	5MHz	16QAM	23035	12RB#0	21.41
Band12	5MHz	16QAM	23035	12RB#6	21.45

Band12	5MHz	16QAM	23035	12RB#13	21.46
Band12	5MHz	16QAM	23035	25RB#0	21.55
Band12	5MHz	16QAM	23095	1RB#0	22.58
Band12	5MHz	16QAM	23095	1RB#12	22.68
Band12	5MHz	16QAM	23095	1RB#24	22.67
Band12	5MHz	16QAM	23095	12RB#0	21.43
Band12	5MHz	16QAM	23095	12RB#6	21.44
Band12	5MHz	16QAM	23095	12RB#13	21.36
Band12	5MHz	16QAM	23095	25RB#0	21.29
Band12	5MHz	16QAM	23155	1RB#0	22.68
Band12	5MHz	16QAM	23155	1RB#12	22.61
Band12	5MHz	16QAM	23155	1RB#24	22.58
Band12	5MHz	16QAM	23155	12RB#0	21.22
Band12	5MHz	16QAM	23155	12RB#6	21.24
Band12	5MHz	16QAM	23155	12RB#13	21.37
Band12	5MHz	16QAM	23155	25RB#0	21.24
Band12	5MHz	64QAM	23035	1RB#0	21.60
Band12	5MHz	64QAM	23035	1RB#12	21.47
Band12	5MHz	64QAM	23035	1RB#24	21.49
Band12	5MHz	64QAM	23035	12RB#0	20.43
Band12	5MHz	64QAM	23035	12RB#6	20.45
Band12	5MHz	64QAM	23035	12RB#13	20.42
Band12	5MHz	64QAM	23035	25RB#0	20.48
Band12	5MHz	64QAM	23095	1RB#0	21.52
Band12	5MHz	64QAM	23095	1RB#12	21.48
Band12	5MHz	64QAM	23095	1RB#24	21.47
Band12	5MHz	64QAM	23095	12RB#0	20.41
Band12	5MHz	64QAM	23095	12RB#6	20.35
Band12	5MHz	64QAM	23095	12RB#13	20.33
Band12	5MHz	64QAM	23095	25RB#0	20.19
Band12	5MHz	64QAM	23155	1RB#0	20.95
Band12	5MHz	64QAM	23155	1RB#12	21.39
Band12	5MHz	64QAM	23155	1RB#24	21.36
Band12	5MHz	64QAM	23155	12RB#0	20.38
Band12	5MHz	64QAM	23155	12RB#6	20.35
Band12	5MHz	64QAM	23155	12RB#13	20.34
Band12	5MHz	64QAM	23155	25RB#0	20.24
Band12	10MHz	QPSK	23060	1RB#0	23.49
Band12	10MHz	QPSK	23060	1RB#24	23.30
Band12	10MHz	QPSK	23060	1RB#49	23.22
Band12	10MHz	QPSK	23060	25RB#0	22.34
Band12	10MHz	QPSK	23060	25RB#12	22.48
Band12	10MHz	QPSK	23060	25RB#25	22.35
Band12	10MHz	QPSK	23060	50RB#0	22.42
Band12	10MHz	QPSK	23095	1RB#0	23.35

Band12	10MHz	QPSK	23095	1RB#24	23.30
Band12	10MHz	QPSK	23095	1RB#49	23.21
Band12	10MHz	QPSK	23095	25RB#0	22.33
Band12	10MHz	QPSK	23095	25RB#12	22.38
Band12	10MHz	QPSK	23095	25RB#25	22.35
Band12	10MHz	QPSK	23095	50RB#0	22.32
Band12	10MHz	QPSK	23130	1RB#0	23.19
Band12	10MHz	QPSK	23130	1RB#24	23.26
Band12	10MHz	QPSK	23130	1RB#49	23.20
Band12	10MHz	QPSK	23130	25RB#0	22.30
Band12	10MHz	QPSK	23130	25RB#12	22.33
Band12	10MHz	QPSK	23130	25RB#25	22.39
Band12	10MHz	QPSK	23130	50RB#0	22.29
Band12	10MHz	16QAM	23060	1RB#0	22.78
Band12	10MHz	16QAM	23060	1RB#24	22.63
Band12	10MHz	16QAM	23060	1RB#49	22.63
Band12	10MHz	16QAM	23060	25RB#0	21.40
Band12	10MHz	16QAM	23060	25RB#12	21.47
Band12	10MHz	16QAM	23060	25RB#25	21.33
Band12	10MHz	16QAM	23060	50RB#0	21.40
Band12	10MHz	16QAM	23095	1RB#0	22.83
Band12	10MHz	16QAM	23095	1RB#24	22.69
Band12	10MHz	16QAM	23095	1RB#49	22.50
Band12	10MHz	16QAM	23095	25RB#0	21.43
Band12	10MHz	16QAM	23095	25RB#12	21.29
Band12	10MHz	16QAM	23095	25RB#25	21.35
Band12	10MHz	16QAM	23095	50RB#0	21.33
Band12	10MHz	16QAM	23130	1RB#0	22.58
Band12	10MHz	16QAM	23130	1RB#24	22.56
Band12	10MHz	16QAM	23130	1RB#49	22.47
Band12	10MHz	16QAM	23130	25RB#0	21.33
Band12	10MHz	16QAM	23130	25RB#12	21.29
Band12	10MHz	16QAM	23130	25RB#25	21.38
Band12	10MHz	16QAM	23130	50RB#0	21.28
Band12	10MHz	64QAM	23060	1RB#0	21.54
Band12	10MHz	64QAM	23060	1RB#24	21.47
Band12	10MHz	64QAM	23060	1RB#49	21.08
Band12	10MHz	64QAM	23060	25RB#0	20.41
Band12	10MHz	64QAM	23060	25RB#12	20.48
Band12	10MHz	64QAM	23060	25RB#25	20.47
Band12	10MHz	64QAM	23060	50RB#0	20.45
Band12	10MHz	64QAM	23095	1RB#0	21.48
Band12	10MHz	64QAM	23095	1RB#24	21.53
Band12	10MHz	64QAM	23095	1RB#49	21.42
Band12	10MHz	64QAM	23095	25RB#0	20.42

Band12	10MHz	64QAM	23095	25RB#12	20.42
Band12	10MHz	64QAM	23095	25RB#25	20.37
Band12	10MHz	64QAM	23095	50RB#0	20.47
Band12	10MHz	64QAM	23130	1RB#0	21.50
Band12	10MHz	64QAM	23130	1RB#24	21.46
Band12	10MHz	64QAM	23130	1RB#49	21.37
Band12	10MHz	64QAM	23130	25RB#0	20.34
Band12	10MHz	64QAM	23130	25RB#12	20.39
Band12	10MHz	64QAM	23130	25RB#25	20.38
Band12	10MHz	64QAM	23130	50RB#0	20.34
Band17	5MHz	QPSK	23755	1RB#0	23.34
Band17	5MHz	QPSK	23755	1RB#12	22.89
Band17	5MHz	QPSK	23755	1RB#24	23.23
Band17	5MHz	QPSK	23755	12RB#0	22.33
Band17	5MHz	QPSK	23755	12RB#6	22.47
Band17	5MHz	QPSK	23755	12RB#13	22.30
Band17	5MHz	QPSK	23755	25RB#0	22.38
Band17	5MHz	QPSK	23790	1RB#0	23.26
Band17	5MHz	QPSK	23790	1RB#12	23.13
Band17	5MHz	QPSK	23790	1RB#24	23.23
Band17	5MHz	QPSK	23790	12RB#0	22.41
Band17	5MHz	QPSK	23790	12RB#6	22.31
Band17	5MHz	QPSK	23790	12RB#13	22.33
Band17	5MHz	QPSK	23790	25RB#0	22.30
Band17	5MHz	QPSK	23825	1RB#0	23.39
Band17	5MHz	QPSK	23825	1RB#12	23.15
Band17	5MHz	QPSK	23825	1RB#24	23.09
Band17	5MHz	QPSK	23825	12RB#0	22.33
Band17	5MHz	QPSK	23825	12RB#6	22.39
Band17	5MHz	QPSK	23825	12RB#13	22.29
Band17	5MHz	QPSK	23825	25RB#0	22.28
Band17	5MHz	16QAM	23755	1RB#0	22.63
Band17	5MHz	16QAM	23755	1RB#12	22.60
Band17	5MHz	16QAM	23755	1RB#24	22.56
Band17	5MHz	16QAM	23755	12RB#0	21.47
Band17	5MHz	16QAM	23755	12RB#6	21.49
Band17	5MHz	16QAM	23755	12RB#13	21.35
Band17	5MHz	16QAM	23755	25RB#0	21.38
Band17	5MHz	16QAM	23790	1RB#0	22.71
Band17	5MHz	16QAM	23790	1RB#12	22.57
Band17	5MHz	16QAM	23790	1RB#24	22.62
Band17	5MHz	16QAM	23790	12RB#0	21.47
Band17	5MHz	16QAM	23790	12RB#6	21.35
Band17	5MHz	16QAM	23790	12RB#13	21.37
Band17	5MHz	16QAM	23790	25RB#0	21.34

Band17	5MHz	16QAM	23825	1RB#0	22.72
Band17	5MHz	16QAM	23825	1RB#12	22.60
Band17	5MHz	16QAM	23825	1RB#24	22.53
Band17	5MHz	16QAM	23825	12RB#0	21.39
Band17	5MHz	16QAM	23825	12RB#6	21.48
Band17	5MHz	16QAM	23825	12RB#13	21.33
Band17	5MHz	16QAM	23825	25RB#0	21.21
Band17	5MHz	64QAM	23755	1RB#0	21.49
Band17	5MHz	64QAM	23755	1RB#12	21.58
Band17	5MHz	64QAM	23755	1RB#24	21.43
Band17	5MHz	64QAM	23755	12RB#0	20.44
Band17	5MHz	64QAM	23755	12RB#6	20.41
Band17	5MHz	64QAM	23755	12RB#13	20.34
Band17	5MHz	64QAM	23755	25RB#0	20.38
Band17	5MHz	64QAM	23790	1RB#0	21.61
Band17	5MHz	64QAM	23790	1RB#12	21.33
Band17	5MHz	64QAM	23790	1RB#24	21.39
Band17	5MHz	64QAM	23790	12RB#0	20.49
Band17	5MHz	64QAM	23790	12RB#6	20.38
Band17	5MHz	64QAM	23790	12RB#13	20.44
Band17	5MHz	64QAM	23790	25RB#0	20.34
Band17	5MHz	64QAM	23825	1RB#0	21.52
Band17	5MHz	64QAM	23825	1RB#12	21.36
Band17	5MHz	64QAM	23825	1RB#24	21.34
Band17	5MHz	64QAM	23825	12RB#0	20.42
Band17	5MHz	64QAM	23825	12RB#6	20.48
Band17	5MHz	64QAM	23825	12RB#13	20.30
Band17	5MHz	64QAM	23825	25RB#0	20.29
Band17	10MHz	QPSK	23780	1RB#0	23.39
Band17	10MHz	QPSK	23780	1RB#24	23.32
Band17	10MHz	QPSK	23780	1RB#49	23.32
Band17	10MHz	QPSK	23780	25RB#0	22.31
Band17	10MHz	QPSK	23780	25RB#12	22.46
Band17	10MHz	QPSK	23780	25RB#25	22.37
Band17	10MHz	QPSK	23780	50RB#0	22.31
Band17	10MHz	QPSK	23790	1RB#0	23.35
Band17	10MHz	QPSK	23790	1RB#24	23.17
Band17	10MHz	QPSK	23790	1RB#49	23.26
Band17	10MHz	QPSK	23790	25RB#0	22.39
Band17	10MHz	QPSK	23790	25RB#12	22.41
Band17	10MHz	QPSK	23790	25RB#25	22.33
Band17	10MHz	QPSK	23790	50RB#0	22.32
Band17	10MHz	QPSK	23800	1RB#0	23.34
Band17	10MHz	QPSK	23800	1RB#24	23.23
Band17	10MHz	QPSK	23800	1RB#49	23.06

Band17	10MHz	QPSK	23800	25RB#0	22.38
Band17	10MHz	QPSK	23800	25RB#12	22.30
Band17	10MHz	QPSK	23800	25RB#25	22.38
Band17	10MHz	QPSK	23800	50RB#0	22.33
Band17	10MHz	16QAM	23780	1RB#0	22.79
Band17	10MHz	16QAM	23780	1RB#24	22.63
Band17	10MHz	16QAM	23780	1RB#49	22.69
Band17	10MHz	16QAM	23780	25RB#0	21.40
Band17	10MHz	16QAM	23780	25RB#12	21.48
Band17	10MHz	16QAM	23780	25RB#25	21.22
Band17	10MHz	16QAM	23780	50RB#0	21.40
Band17	10MHz	16QAM	23790	1RB#0	22.92
Band17	10MHz	16QAM	23790	1RB#24	22.67
Band17	10MHz	16QAM	23790	1RB#49	22.55
Band17	10MHz	16QAM	23790	25RB#0	21.39
Band17	10MHz	16QAM	23790	25RB#12	21.41
Band17	10MHz	16QAM	23790	25RB#25	21.33
Band17	10MHz	16QAM	23790	50RB#0	21.31
Band17	10MHz	16QAM	23800	1RB#0	22.68
Band17	10MHz	16QAM	23800	1RB#24	22.61
Band17	10MHz	16QAM	23800	1RB#49	22.56
Band17	10MHz	16QAM	23800	25RB#0	21.40
Band17	10MHz	16QAM	23800	25RB#12	21.36
Band17	10MHz	16QAM	23800	25RB#25	21.31
Band17	10MHz	16QAM	23800	50RB#0	21.30
Band17	10MHz	64QAM	23780	1RB#0	21.42
Band17	10MHz	64QAM	23780	1RB#24	21.33
Band17	10MHz	64QAM	23780	1RB#49	21.42
Band17	10MHz	64QAM	23780	25RB#0	20.40
Band17	10MHz	64QAM	23780	25RB#12	20.52
Band17	10MHz	64QAM	23780	25RB#25	20.38
Band17	10MHz	64QAM	23780	50RB#0	20.28
Band17	10MHz	64QAM	23790	1RB#0	21.54
Band17	10MHz	64QAM	23790	1RB#24	21.41
Band17	10MHz	64QAM	23790	1RB#49	21.42
Band17	10MHz	64QAM	23790	25RB#0	20.48
Band17	10MHz	64QAM	23790	25RB#12	20.47
Band17	10MHz	64QAM	23790	25RB#25	20.39
Band17	10MHz	64QAM	23790	50RB#0	20.37
Band17	10MHz	64QAM	23800	1RB#0	21.81
Band17	10MHz	64QAM	23800	1RB#24	21.52
Band17	10MHz	64QAM	23800	1RB#49	21.29
Band17	10MHz	64QAM	23800	25RB#0	20.42
Band17	10MHz	64QAM	23800	25RB#12	20.40
Band17	10MHz	64QAM	23800	25RB#25	20.38

Band17	10MHz	64QAM	23800	50RB#0	20.37
Band26	1.4MHz	QPSK	26697	1RB#0	23.73
Band26	1.4MHz	QPSK	26697	1RB#3	23.88
Band26	1.4MHz	QPSK	26697	1RB#5	23.69
Band26	1.4MHz	QPSK	26697	3RB#0	23.80
Band26	1.4MHz	QPSK	26697	3RB#2	23.84
Band26	1.4MHz	QPSK	26697	3RB#3	23.75
Band26	1.4MHz	QPSK	26697	6RB#0	22.86
Band26	1.4MHz	QPSK	26740	1RB#0	23.76
Band26	1.4MHz	QPSK	26740	1RB#3	23.73
Band26	1.4MHz	QPSK	26740	1RB#5	23.75
Band26	1.4MHz	QPSK	26740	3RB#0	23.86
Band26	1.4MHz	QPSK	26740	3RB#2	23.92
Band26	1.4MHz	QPSK	26740	3RB#3	23.77
Band26	1.4MHz	QPSK	26740	6RB#0	22.88
Band26	1.4MHz	QPSK	26783	1RB#0	23.75
Band26	1.4MHz	QPSK	26783	1RB#3	23.85
Band26	1.4MHz	QPSK	26783	1RB#5	23.68
Band26	1.4MHz	QPSK	26783	3RB#0	23.82
Band26	1.4MHz	QPSK	26783	3RB#2	23.76
Band26	1.4MHz	QPSK	26783	3RB#3	23.81
Band26	1.4MHz	QPSK	26783	6RB#0	22.94
Band26	1.4MHz	16QAM	26697	1RB#0	23.11
Band26	1.4MHz	16QAM	26697	1RB#3	23.16
Band26	1.4MHz	16QAM	26697	1RB#5	23.20
Band26	1.4MHz	16QAM	26697	3RB#0	22.92
Band26	1.4MHz	16QAM	26697	3RB#2	23.06
Band26	1.4MHz	16QAM	26697	3RB#3	23.09
Band26	1.4MHz	16QAM	26697	6RB#0	21.89
Band26	1.4MHz	16QAM	26740	1RB#0	23.10
Band26	1.4MHz	16QAM	26740	1RB#3	23.03
Band26	1.4MHz	16QAM	26740	1RB#5	22.95
Band26	1.4MHz	16QAM	26740	3RB#0	23.07
Band26	1.4MHz	16QAM	26740	3RB#2	23.07
Band26	1.4MHz	16QAM	26740	3RB#3	23.01
Band26	1.4MHz	16QAM	26740	6RB#0	22.00
Band26	1.4MHz	16QAM	26783	1RB#0	23.07
Band26	1.4MHz	16QAM	26783	1RB#3	23.25
Band26	1.4MHz	16QAM	26783	1RB#5	22.96
Band26	1.4MHz	16QAM	26783	3RB#0	22.93
Band26	1.4MHz	16QAM	26783	3RB#2	22.98
Band26	1.4MHz	16QAM	26783	3RB#3	22.86
Band26	1.4MHz	16QAM	26783	6RB#0	21.85
Band26	1.4MHz	64QAM	26697	1RB#0	22.02
Band26	1.4MHz	64QAM	26697	1RB#3	22.17



Band26	1.4MHz	64QAM	26697	1RB#5	21.92
Band26	1.4MHz	64QAM	26697	3RB#0	21.82
Band26	1.4MHz	64QAM	26697	3RB#2	22.06
Band26	1.4MHz	64QAM	26697	3RB#3	22.07
Band26	1.4MHz	64QAM	26697	6RB#0	20.92
Band26	1.4MHz	64QAM	26740	1RB#0	21.95
Band26	1.4MHz	64QAM	26740	1RB#3	22.10
Band26	1.4MHz	64QAM	26740	1RB#5	22.02
Band26	1.4MHz	64QAM	26740	3RB#0	21.88
Band26	1.4MHz	64QAM	26740	3RB#2	22.10
Band26	1.4MHz	64QAM	26740	3RB#3	22.01
Band26	1.4MHz	64QAM	26740	6RB#0	20.84
Band26	1.4MHz	64QAM	26783	1RB#0	21.95
Band26	1.4MHz	64QAM	26783	1RB#3	22.07
Band26	1.4MHz	64QAM	26783	1RB#5	22.04
Band26	1.4MHz	64QAM	26783	3RB#0	21.95
Band26	1.4MHz	64QAM	26783	3RB#2	22.08
Band26	1.4MHz	64QAM	26783	3RB#3	21.84
Band26	1.4MHz	64QAM	26783	6RB#0	20.85
Band26	3MHz	QPSK	26705	1RB#0	23.89
Band26	3MHz	QPSK	26705	1RB#7	23.79
Band26	3MHz	QPSK	26705	1RB#14	23.97
Band26	3MHz	QPSK	26705	8RB#0	22.93
Band26	3MHz	QPSK	26705	8RB#4	23.00
Band26	3MHz	QPSK	26705	8RB#7	22.99
Band26	3MHz	QPSK	26705	15RB#0	22.97
Band26	3MHz	QPSK	26740	1RB#0	23.85
Band26	3MHz	QPSK	26740	1RB#7	23.77
Band26	3MHz	QPSK	26740	1RB#14	23.89
Band26	3MHz	QPSK	26740	8RB#0	22.99
Band26	3MHz	QPSK	26740	8RB#4	22.99
Band26	3MHz	QPSK	26740	8RB#7	22.96
Band26	3MHz	QPSK	26740	15RB#0	23.02
Band26	3MHz	QPSK	26775	1RB#0	23.87
Band26	3MHz	QPSK	26775	1RB#7	23.83
Band26	3MHz	QPSK	26775	1RB#14	23.93
Band26	3MHz	QPSK	26775	8RB#0	23.01
Band26	3MHz	QPSK	26775	8RB#4	22.93
Band26	3MHz	QPSK	26775	8RB#7	23.01
Band26	3MHz	QPSK	26775	15RB#0	22.97
Band26	3MHz	16QAM	26705	1RB#0	23.19
Band26	3MHz	16QAM	26705	1RB#7	23.28
Band26	3MHz	16QAM	26705	1RB#14	23.18
Band26	3MHz	16QAM	26705	8RB#0	22.06
Band26	3MHz	16QAM	26705	8RB#4	22.16

Band26	3MHz	16QAM	26705	8RB#7	21.99
Band26	3MHz	16QAM	26705	15RB#0	22.05
Band26	3MHz	16QAM	26740	1RB#0	23.09
Band26	3MHz	16QAM	26740	1RB#7	23.14
Band26	3MHz	16QAM	26740	1RB#14	23.23
Band26	3MHz	16QAM	26740	8RB#0	22.05
Band26	3MHz	16QAM	26740	8RB#4	22.12
Band26	3MHz	16QAM	26740	8RB#7	22.08
Band26	3MHz	16QAM	26740	15RB#0	21.94
Band26	3MHz	16QAM	26775	1RB#0	23.40
Band26	3MHz	16QAM	26775	1RB#7	23.17
Band26	3MHz	16QAM	26775	1RB#14	23.13
Band26	3MHz	16QAM	26775	8RB#0	22.02
Band26	3MHz	16QAM	26775	8RB#4	22.19
Band26	3MHz	16QAM	26775	8RB#7	22.08
Band26	3MHz	16QAM	26775	15RB#0	22.07
Band26	3MHz	64QAM	26705	1RB#0	21.91
Band26	3MHz	64QAM	26705	1RB#7	21.97
Band26	3MHz	64QAM	26705	1RB#14	22.18
Band26	3MHz	64QAM	26705	8RB#0	20.99
Band26	3MHz	64QAM	26705	8RB#4	20.98
Band26	3MHz	64QAM	26705	8RB#7	21.07
Band26	3MHz	64QAM	26705	15RB#0	21.01
Band26	3MHz	64QAM	26740	1RB#0	22.13
Band26	3MHz	64QAM	26740	1RB#7	22.02
Band26	3MHz	64QAM	26740	1RB#14	22.12
Band26	3MHz	64QAM	26740	8RB#0	20.95
Band26	3MHz	64QAM	26740	8RB#4	21.04
Band26	3MHz	64QAM	26740	8RB#7	21.03
Band26	3MHz	64QAM	26740	15RB#0	21.01
Band26	3MHz	64QAM	26775	1RB#0	21.68
Band26	3MHz	64QAM	26775	1RB#7	22.19
Band26	3MHz	64QAM	26775	1RB#14	22.11
Band26	3MHz	64QAM	26775	8RB#0	21.00
Band26	3MHz	64QAM	26775	8RB#4	21.13
Band26	3MHz	64QAM	26775	8RB#7	21.09
Band26	3MHz	64QAM	26775	15RB#0	20.95
Band26	5MHz	QPSK	26715	1RB#0	23.87
Band26	5MHz	QPSK	26715	1RB#12	23.76
Band26	5MHz	QPSK	26715	1RB#24	23.70
Band26	5MHz	QPSK	26715	12RB#0	22.98
Band26	5MHz	QPSK	26715	12RB#6	22.95
Band26	5MHz	QPSK	26715	12RB#13	23.04
Band26	5MHz	QPSK	26715	25RB#0	23.03
Band26	5MHz	QPSK	26740	1RB#0	23.94

Band26	5MHz	QPSK	26740	1RB#12	23.79
Band26	5MHz	QPSK	26740	1RB#24	23.80
Band26	5MHz	QPSK	26740	12RB#0	22.91
Band26	5MHz	QPSK	26740	12RB#6	23.06
Band26	5MHz	QPSK	26740	12RB#13	23.02
Band26	5MHz	QPSK	26740	25RB#0	23.01
Band26	5MHz	QPSK	26765	1RB#0	23.77
Band26	5MHz	QPSK	26765	1RB#12	23.76
Band26	5MHz	QPSK	26765	1RB#24	23.84
Band26	5MHz	QPSK	26765	12RB#0	22.97
Band26	5MHz	QPSK	26765	12RB#6	22.97
Band26	5MHz	QPSK	26765	12RB#13	22.97
Band26	5MHz	QPSK	26765	25RB#0	23.00
Band26	5MHz	16QAM	26715	1RB#0	23.30
Band26	5MHz	16QAM	26715	1RB#12	23.19
Band26	5MHz	16QAM	26715	1RB#24	23.30
Band26	5MHz	16QAM	26715	12RB#0	21.89
Band26	5MHz	16QAM	26715	12RB#6	21.98
Band26	5MHz	16QAM	26715	12RB#13	21.97
Band26	5MHz	16QAM	26715	25RB#0	21.99
Band26	5MHz	16QAM	26740	1RB#0	23.24
Band26	5MHz	16QAM	26740	1RB#12	23.32
Band26	5MHz	16QAM	26740	1RB#24	23.26
Band26	5MHz	16QAM	26740	12RB#0	21.94
Band26	5MHz	16QAM	26740	12RB#6	22.10
Band26	5MHz	16QAM	26740	12RB#13	22.01
Band26	5MHz	16QAM	26740	25RB#0	22.05
Band26	5MHz	16QAM	26765	1RB#0	23.24
Band26	5MHz	16QAM	26765	1RB#12	23.18
Band26	5MHz	16QAM	26765	1RB#24	23.18
Band26	5MHz	16QAM	26765	12RB#0	22.02
Band26	5MHz	16QAM	26765	12RB#6	22.10
Band26	5MHz	16QAM	26765	12RB#13	22.10
Band26	5MHz	16QAM	26765	25RB#0	22.07
Band26	5MHz	64QAM	26715	1RB#0	22.21
Band26	5MHz	64QAM	26715	1RB#12	22.09
Band26	5MHz	64QAM	26715	1RB#24	22.06
Band26	5MHz	64QAM	26715	12RB#0	21.04
Band26	5MHz	64QAM	26715	12RB#6	21.08
Band26	5MHz	64QAM	26715	12RB#13	21.11
Band26	5MHz	64QAM	26715	25RB#0	21.04
Band26	5MHz	64QAM	26740	1RB#0	22.06
Band26	5MHz	64QAM	26740	1RB#12	22.11
Band26	5MHz	64QAM	26740	1RB#24	22.04
Band26	5MHz	64QAM	26740	12RB#0	20.99

Band26	5MHz	64QAM	26740	12RB#6	21.12
Band26	5MHz	64QAM	26740	12RB#13	21.01
Band26	5MHz	64QAM	26740	25RB#0	21.00
Band26	5MHz	64QAM	26765	1RB#0	22.13
Band26	5MHz	64QAM	26765	1RB#12	22.03
Band26	5MHz	64QAM	26765	1RB#24	22.11
Band26	5MHz	64QAM	26765	12RB#0	21.05
Band26	5MHz	64QAM	26765	12RB#6	21.08
Band26	5MHz	64QAM	26765	12RB#13	21.14
Band26	5MHz	64QAM	26765	25RB#0	21.06
Band26	10MHz	QPSK	26740	1RB#0	23.84
Band26	10MHz	QPSK	26740	1RB#24	23.84
Band26	10MHz	QPSK	26740	1RB#49	23.82
Band26	10MHz	QPSK	26740	25RB#0	22.89
Band26	10MHz	QPSK	26740	25RB#12	23.05
Band26	10MHz	QPSK	26740	25RB#25	22.98
Band26	10MHz	QPSK	26740	50RB#0	23.08
Band26	10MHz	16QAM	26740	1RB#0	23.35
Band26	10MHz	16QAM	26740	1RB#24	23.35
Band26	10MHz	16QAM	26740	1RB#49	23.25
Band26	10MHz	16QAM	26740	25RB#0	22.03
Band26	10MHz	16QAM	26740	25RB#12	22.00
Band26	10MHz	16QAM	26740	25RB#25	22.01
Band26	10MHz	16QAM	26740	50RB#0	22.05
Band26	10MHz	64QAM	26740	1RB#0	22.30
Band26	10MHz	64QAM	26740	1RB#24	22.16
Band26	10MHz	64QAM	26740	1RB#49	22.01
Band26	10MHz	64QAM	26740	25RB#0	21.08
Band26	10MHz	64QAM	26740	25RB#12	21.11
Band26	10MHz	64QAM	26740	25RB#25	21.02
Band26	10MHz	64QAM	26740	50RB#0	21.07
Band26	15MHz	QPSK	26765	1RB#0	23.69
Band26	15MHz	QPSK	26765	1RB#38	23.69
Band26	15MHz	QPSK	26765	1RB#74	23.74
Band26	15MHz	QPSK	26765	38RB#0	23.70
Band26	15MHz	QPSK	26765	38RB#18	23.75
Band26	15MHz	QPSK	26765	38RB#37	23.75
Band26	15MHz	QPSK	26765	75RB#0	22.93
Band26	15MHz	QPSK	26865	1RB#0	23.89
Band26	15MHz	QPSK	26865	1RB#38	23.73
Band26	15MHz	QPSK	26865	1RB#74	23.65
Band26	15MHz	QPSK	26865	38RB#0	23.81
Band26	15MHz	QPSK	26865	38RB#18	23.82
Band26	15MHz	QPSK	26865	38RB#37	23.74
Band26	15MHz	QPSK	26865	75RB#0	22.87

Band26	15MHz	QPSK	26915	1RB#0	23.75
Band26	15MHz	QPSK	26915	1RB#38	23.78
Band26	15MHz	QPSK	26915	1RB#74	23.85
Band26	15MHz	QPSK	26915	38RB#0	23.66
Band26	15MHz	QPSK	26915	38RB#18	23.70
Band26	15MHz	QPSK	26915	38RB#37	23.64
Band26	15MHz	QPSK	26915	75RB#0	22.92
Band26	15MHz	QPSK	26965	1RB#0	23.77
Band26	15MHz	QPSK	26965	1RB#38	23.76
Band26	15MHz	QPSK	26965	1RB#74	23.79
Band26	15MHz	QPSK	26965	38RB#0	23.67
Band26	15MHz	QPSK	26965	38RB#18	23.88
Band26	15MHz	QPSK	26965	38RB#37	23.90
Band26	15MHz	QPSK	26965	75RB#0	22.90
Band26	15MHz	16QAM	26765	1RB#0	23.16
Band26	15MHz	16QAM	26765	1RB#38	23.02
Band26	15MHz	16QAM	26765	1RB#74	23.12
Band26	15MHz	16QAM	26765	38RB#0	23.03
Band26	15MHz	16QAM	26765	38RB#18	23.18
Band26	15MHz	16QAM	26765	38RB#37	23.08
Band26	15MHz	16QAM	26765	75RB#0	21.92
Band26	15MHz	16QAM	26865	1RB#0	23.08
Band26	15MHz	16QAM	26865	1RB#38	23.05
Band26	15MHz	16QAM	26865	1RB#74	23.04
Band26	15MHz	16QAM	26865	38RB#0	23.15
Band26	15MHz	16QAM	26865	38RB#18	23.14
Band26	15MHz	16QAM	26865	38RB#37	23.10
Band26	15MHz	16QAM	26865	75RB#0	21.93
Band26	15MHz	16QAM	26915	1RB#0	23.16
Band26	15MHz	16QAM	26915	1RB#38	23.15
Band26	15MHz	16QAM	26915	1RB#74	23.02
Band26	15MHz	16QAM	26915	38RB#0	23.05
Band26	15MHz	16QAM	26915	38RB#18	23.12
Band26	15MHz	16QAM	26915	38RB#37	23.19
Band26	15MHz	16QAM	26915	75RB#0	21.90
Band26	15MHz	16QAM	26965	1RB#0	22.99
Band26	15MHz	16QAM	26965	1RB#38	23.16
Band26	15MHz	16QAM	26965	1RB#74	23.19
Band26	15MHz	16QAM	26965	38RB#0	23.07
Band26	15MHz	16QAM	26965	38RB#18	23.24
Band26	15MHz	16QAM	26965	38RB#37	23.09
Band26	15MHz	16QAM	26965	75RB#0	21.83
Band26	15MHz	64QAM	26765	1RB#0	21.89
Band26	15MHz	64QAM	26765	1RB#38	21.75
Band26	15MHz	64QAM	26765	1RB#74	21.93

Band26	15MHz	64QAM	26765	38RB#0	21.93
Band26	15MHz	64QAM	26765	38RB#18	21.91
Band26	15MHz	64QAM	26765	38RB#37	22.00
Band26	15MHz	64QAM	26765	75RB#0	20.92
Band26	15MHz	64QAM	26865	1RB#0	22.03
Band26	15MHz	64QAM	26865	1RB#38	21.90
Band26	15MHz	64QAM	26865	1RB#74	21.85
Band26	15MHz	64QAM	26865	38RB#0	21.86
Band26	15MHz	64QAM	26865	38RB#18	21.98
Band26	15MHz	64QAM	26865	38RB#37	21.91
Band26	15MHz	64QAM	26865	75RB#0	20.89
Band26	15MHz	64QAM	26915	1RB#0	21.93
Band26	15MHz	64QAM	26915	1RB#38	21.91
Band26	15MHz	64QAM	26915	1RB#74	21.97
Band26	15MHz	64QAM	26915	38RB#0	21.90
Band26	15MHz	64QAM	26915	38RB#18	22.03
Band26	15MHz	64QAM	26915	38RB#37	22.02
Band26	15MHz	64QAM	26915	75RB#0	20.90
Band26	15MHz	64QAM	26965	1RB#0	21.86
Band26	15MHz	64QAM	26965	1RB#38	21.98
Band26	15MHz	64QAM	26965	1RB#74	21.86
Band26	15MHz	64QAM	26965	38RB#0	21.93
Band26	15MHz	64QAM	26965	38RB#18	21.79
Band26	15MHz	64QAM	26965	38RB#37	21.90
Band26	15MHz	64QAM	26965	75RB#0	20.82
Band38	5MHz	QPSK	37775	1RB#0	23.92
Band38	5MHz	QPSK	37775	1RB#12	23.96
Band38	5MHz	QPSK	37775	1RB#24	23.86
Band38	5MHz	QPSK	37775	12RB#0	22.99
Band38	5MHz	QPSK	37775	12RB#6	22.95
Band38	5MHz	QPSK	37775	12RB#13	22.94
Band38	5MHz	QPSK	37775	25RB#0	22.93
Band38	5MHz	QPSK	38000	1RB#0	23.84
Band38	5MHz	QPSK	38000	1RB#12	23.93
Band38	5MHz	QPSK	38000	1RB#24	23.78
Band38	5MHz	QPSK	38000	12RB#0	22.84
Band38	5MHz	QPSK	38000	12RB#6	22.89
Band38	5MHz	QPSK	38000	12RB#13	22.86
Band38	5MHz	QPSK	38000	25RB#0	22.86
Band38	5MHz	QPSK	38225	1RB#0	23.89
Band38	5MHz	QPSK	38225	1RB#12	23.68
Band38	5MHz	QPSK	38225	1RB#24	23.83
Band38	5MHz	QPSK	38225	12RB#0	22.93
Band38	5MHz	QPSK	38225	12RB#6	22.88
Band38	5MHz	QPSK	38225	12RB#13	22.86

Band38	5MHz	QPSK	38225	25RB#0	22.86
Band38	5MHz	16QAM	37775	1RB#0	23.06
Band38	5MHz	16QAM	37775	1RB#12	22.89
Band38	5MHz	16QAM	37775	1RB#24	22.94
Band38	5MHz	16QAM	37775	12RB#0	21.85
Band38	5MHz	16QAM	37775	12RB#6	21.83
Band38	5MHz	16QAM	37775	12RB#13	21.84
Band38	5MHz	16QAM	37775	25RB#0	21.99
Band38	5MHz	16QAM	38000	1RB#0	22.94
Band38	5MHz	16QAM	38000	1RB#12	22.83
Band38	5MHz	16QAM	38000	1RB#24	22.94
Band38	5MHz	16QAM	38000	12RB#0	21.70
Band38	5MHz	16QAM	38000	12RB#6	21.77
Band38	5MHz	16QAM	38000	12RB#13	21.75
Band38	5MHz	16QAM	38000	25RB#0	21.94
Band38	5MHz	16QAM	38225	1RB#0	22.93
Band38	5MHz	16QAM	38225	1RB#12	22.85
Band38	5MHz	16QAM	38225	1RB#24	22.88
Band38	5MHz	16QAM	38225	12RB#0	21.79
Band38	5MHz	16QAM	38225	12RB#6	21.80
Band38	5MHz	16QAM	38225	12RB#13	21.79
Band38	5MHz	16QAM	38225	25RB#0	21.93
Band38	5MHz	64QAM	37775	1RB#0	21.64
Band38	5MHz	64QAM	37775	1RB#12	21.78
Band38	5MHz	64QAM	37775	1RB#24	21.82
Band38	5MHz	64QAM	37775	12RB#0	21.03
Band38	5MHz	64QAM	37775	12RB#6	20.93
Band38	5MHz	64QAM	37775	12RB#13	20.89
Band38	5MHz	64QAM	37775	25RB#0	20.99
Band38	5MHz	64QAM	38000	1RB#0	21.59
Band38	5MHz	64QAM	38000	1RB#12	21.73
Band38	5MHz	64QAM	38000	1RB#24	21.84
Band38	5MHz	64QAM	38000	12RB#0	20.92
Band38	5MHz	64QAM	38000	12RB#6	20.96
Band38	5MHz	64QAM	38000	12RB#13	20.84
Band38	5MHz	64QAM	38000	25RB#0	20.92
Band38	5MHz	64QAM	38225	1RB#0	21.77
Band38	5MHz	64QAM	38225	1RB#12	21.85
Band38	5MHz	64QAM	38225	1RB#24	21.74
Band38	5MHz	64QAM	38225	12RB#0	20.86
Band38	5MHz	64QAM	38225	12RB#6	20.91
Band38	5MHz	64QAM	38225	12RB#13	20.84
Band38	5MHz	64QAM	38225	25RB#0	20.93
Band38	10MHz	QPSK	37800	1RB#0	23.85
Band38	10MHz	QPSK	37800	1RB#24	23.83

Band38	10MHz	QPSK	37800	1RB#49	23.80
Band38	10MHz	QPSK	37800	25RB#0	22.90
Band38	10MHz	QPSK	37800	25RB#12	22.98
Band38	10MHz	QPSK	37800	25RB#25	22.91
Band38	10MHz	QPSK	37800	50RB#0	22.99
Band38	10MHz	QPSK	38000	1RB#0	23.85
Band38	10MHz	QPSK	38000	1RB#24	23.79
Band38	10MHz	QPSK	38000	1RB#49	23.81
Band38	10MHz	QPSK	38000	25RB#0	22.84
Band38	10MHz	QPSK	38000	25RB#12	22.92
Band38	10MHz	QPSK	38000	25RB#25	22.85
Band38	10MHz	QPSK	38000	50RB#0	22.93
Band38	10MHz	QPSK	38200	1RB#0	23.87
Band38	10MHz	QPSK	38200	1RB#24	23.82
Band38	10MHz	QPSK	38200	1RB#49	23.77
Band38	10MHz	QPSK	38200	25RB#0	22.80
Band38	10MHz	QPSK	38200	25RB#12	22.85
Band38	10MHz	QPSK	38200	25RB#25	22.87
Band38	10MHz	QPSK	38200	50RB#0	22.87
Band38	10MHz	16QAM	37800	1RB#0	22.96
Band38	10MHz	16QAM	37800	1RB#24	22.91
Band38	10MHz	16QAM	37800	1RB#49	22.87
Band38	10MHz	16QAM	37800	25RB#0	22.01
Band38	10MHz	16QAM	37800	25RB#12	21.96
Band38	10MHz	16QAM	37800	25RB#25	21.94
Band38	10MHz	16QAM	37800	50RB#0	22.00
Band38	10MHz	16QAM	38000	1RB#0	22.89
Band38	10MHz	16QAM	38000	1RB#24	22.86
Band38	10MHz	16QAM	38000	1RB#49	22.89
Band38	10MHz	16QAM	38000	25RB#0	21.87
Band38	10MHz	16QAM	38000	25RB#12	21.94
Band38	10MHz	16QAM	38000	25RB#25	21.91
Band38	10MHz	16QAM	38000	50RB#0	21.93
Band38	10MHz	16QAM	38200	1RB#0	22.91
Band38	10MHz	16QAM	38200	1RB#24	22.83
Band38	10MHz	16QAM	38200	1RB#49	22.91
Band38	10MHz	16QAM	38200	25RB#0	21.92
Band38	10MHz	16QAM	38200	25RB#12	21.90
Band38	10MHz	16QAM	38200	25RB#25	21.88
Band38	10MHz	16QAM	38200	50RB#0	21.84
Band38	10MHz	64QAM	37800	1RB#0	21.88
Band38	10MHz	64QAM	37800	1RB#24	21.79
Band38	10MHz	64QAM	37800	1RB#49	21.73
Band38	10MHz	64QAM	37800	25RB#0	21.07
Band38	10MHz	64QAM	37800	25RB#12	21.08



Band38	10MHz	64QAM	37800	25RB#25	21.01
Band38	10MHz	64QAM	37800	50RB#0	21.03
Band38	10MHz	64QAM	38000	1RB#0	21.77
Band38	10MHz	64QAM	38000	1RB#24	21.66
Band38	10MHz	64QAM	38000	1RB#49	21.74
Band38	10MHz	64QAM	38000	25RB#0	20.94
Band38	10MHz	64QAM	38000	25RB#12	21.02
Band38	10MHz	64QAM	38000	25RB#25	20.97
Band38	10MHz	64QAM	38000	50RB#0	20.94
Band38	10MHz	64QAM	38200	1RB#0	21.76
Band38	10MHz	64QAM	38200	1RB#24	21.70
Band38	10MHz	64QAM	38200	1RB#49	21.79
Band38	10MHz	64QAM	38200	25RB#0	20.93
Band38	10MHz	64QAM	38200	25RB#12	20.94
Band38	10MHz	64QAM	38200	25RB#25	20.95
Band38	10MHz	64QAM	38200	50RB#0	20.88
Band38	15MHz	QPSK	37825	1RB#0	23.85
Band38	15MHz	QPSK	37825	1RB#38	23.78
Band38	15MHz	QPSK	37825	1RB#74	23.69
Band38	15MHz	QPSK	37825	38RB#0	23.77
Band38	15MHz	QPSK	37825	38RB#18	23.78
Band38	15MHz	QPSK	37825	38RB#37	23.72
Band38	15MHz	QPSK	37825	75RB#0	22.83
Band38	15MHz	QPSK	38000	1RB#0	23.73
Band38	15MHz	QPSK	38000	1RB#38	23.71
Band38	15MHz	QPSK	38000	1RB#74	23.66
Band38	15MHz	QPSK	38000	38RB#0	23.73
Band38	15MHz	QPSK	38000	38RB#18	23.74
Band38	15MHz	QPSK	38000	38RB#37	23.69
Band38	15MHz	QPSK	38000	75RB#0	22.76
Band38	15MHz	QPSK	38175	1RB#0	23.70
Band38	15MHz	QPSK	38175	1RB#38	23.71
Band38	15MHz	QPSK	38175	1RB#74	23.66
Band38	15MHz	QPSK	38175	38RB#0	23.72
Band38	15MHz	QPSK	38175	38RB#18	23.74
Band38	15MHz	QPSK	38175	38RB#37	23.70
Band38	15MHz	QPSK	38175	75RB#0	22.81
Band38	15MHz	16QAM	37825	1RB#0	22.90
Band38	15MHz	16QAM	37825	1RB#38	22.84
Band38	15MHz	16QAM	37825	1RB#74	22.71
Band38	15MHz	16QAM	37825	38RB#0	22.90
Band38	15MHz	16QAM	37825	38RB#18	22.90
Band38	15MHz	16QAM	37825	38RB#37	22.77
Band38	15MHz	16QAM	37825	75RB#0	21.82
Band38	15MHz	16QAM	38000	1RB#0	22.74

Band38	15MHz	16QAM	38000	1RB#38	22.76
Band38	15MHz	16QAM	38000	1RB#74	22.67
Band38	15MHz	16QAM	38000	38RB#0	22.75
Band38	15MHz	16QAM	38000	38RB#18	22.82
Band38	15MHz	16QAM	38000	38RB#37	22.69
Band38	15MHz	16QAM	38000	75RB#0	21.75
Band38	15MHz	16QAM	38175	1RB#0	22.79
Band38	15MHz	16QAM	38175	1RB#38	22.78
Band38	15MHz	16QAM	38175	1RB#74	22.77
Band38	15MHz	16QAM	38175	38RB#0	22.74
Band38	15MHz	16QAM	38175	38RB#18	22.84
Band38	15MHz	16QAM	38175	38RB#37	22.74
Band38	15MHz	16QAM	38175	75RB#0	21.83
Band38	15MHz	64QAM	37825	1RB#0	21.66
Band38	15MHz	64QAM	37825	1RB#38	21.68
Band38	15MHz	64QAM	37825	1RB#74	21.64
Band38	15MHz	64QAM	37825	38RB#0	21.69
Band38	15MHz	64QAM	37825	38RB#18	21.71
Band38	15MHz	64QAM	37825	38RB#37	21.64
Band38	15MHz	64QAM	37825	75RB#0	20.83
Band38	15MHz	64QAM	38000	1RB#0	21.57
Band38	15MHz	64QAM	38000	1RB#38	21.65
Band38	15MHz	64QAM	38000	1RB#74	21.60
Band38	15MHz	64QAM	38000	38RB#0	21.60
Band38	15MHz	64QAM	38000	38RB#18	21.69
Band38	15MHz	64QAM	38000	38RB#37	21.56
Band38	15MHz	64QAM	38000	75RB#0	20.80
Band38	15MHz	64QAM	38175	1RB#0	21.59
Band38	15MHz	64QAM	38175	1RB#38	21.68
Band38	15MHz	64QAM	38175	1RB#74	21.68
Band38	15MHz	64QAM	38175	38RB#0	21.61
Band38	15MHz	64QAM	38175	38RB#18	21.69
Band38	15MHz	64QAM	38175	38RB#37	21.61
Band38	15MHz	64QAM	38175	75RB#0	20.84
Band38	20MHz	QPSK	37850	1RB#0	23.81
Band38	20MHz	QPSK	37850	1RB#49	23.73
Band38	20MHz	QPSK	37850	1RB#99	23.67
Band38	20MHz	QPSK	37850	50RB#0	22.78
Band38	20MHz	QPSK	37850	50RB#25	22.83
Band38	20MHz	QPSK	37850	50RB#50	22.76
Band38	20MHz	QPSK	37850	100RB#0	22.81
Band38	20MHz	QPSK	38000	1RB#0	23.72
Band38	20MHz	QPSK	38000	1RB#49	23.67
Band38	20MHz	QPSK	38000	1RB#99	23.65
Band38	20MHz	QPSK	38000	50RB#0	22.68

Band38	20MHz	QPSK	38000	50RB#25	22.78
Band38	20MHz	QPSK	38000	50RB#50	22.76
Band38	20MHz	QPSK	38000	100RB#0	22.77
Band38	20MHz	QPSK	38150	1RB#0	23.76
Band38	20MHz	QPSK	38150	1RB#49	23.73
Band38	20MHz	QPSK	38150	1RB#99	23.71
Band38	20MHz	QPSK	38150	50RB#0	22.73
Band38	20MHz	QPSK	38150	50RB#25	22.75
Band38	20MHz	QPSK	38150	50RB#50	22.78
Band38	20MHz	QPSK	38150	100RB#0	22.73
Band38	20MHz	16QAM	37850	1RB#0	22.86
Band38	20MHz	16QAM	37850	1RB#49	22.79
Band38	20MHz	16QAM	37850	1RB#99	22.72
Band38	20MHz	16QAM	37850	50RB#0	21.79
Band38	20MHz	16QAM	37850	50RB#25	21.86
Band38	20MHz	16QAM	37850	50RB#50	21.78
Band38	20MHz	16QAM	37850	100RB#0	21.85
Band38	20MHz	16QAM	38000	1RB#0	22.78
Band38	20MHz	16QAM	38000	1RB#49	22.74
Band38	20MHz	16QAM	38000	1RB#99	22.63
Band38	20MHz	16QAM	38000	50RB#0	21.73
Band38	20MHz	16QAM	38000	50RB#25	21.80
Band38	20MHz	16QAM	38000	50RB#50	21.74
Band38	20MHz	16QAM	38000	100RB#0	21.79
Band38	20MHz	16QAM	38150	1RB#0	22.73
Band38	20MHz	16QAM	38150	1RB#49	22.70
Band38	20MHz	16QAM	38150	1RB#99	22.77
Band38	20MHz	16QAM	38150	50RB#0	21.72
Band38	20MHz	16QAM	38150	50RB#25	21.75
Band38	20MHz	16QAM	38150	50RB#50	21.78
Band38	20MHz	16QAM	38150	100RB#0	21.74
Band38	20MHz	64QAM	37850	1RB#0	21.68
Band38	20MHz	64QAM	37850	1RB#49	21.68
Band38	20MHz	64QAM	37850	1RB#99	21.59
Band38	20MHz	64QAM	37850	50RB#0	20.79
Band38	20MHz	64QAM	37850	50RB#25	20.89
Band38	20MHz	64QAM	37850	50RB#50	20.85
Band38	20MHz	64QAM	37850	100RB#0	20.80
Band38	20MHz	64QAM	38000	1RB#0	21.63
Band38	20MHz	64QAM	38000	1RB#49	21.61
Band38	20MHz	64QAM	38000	1RB#99	21.59
Band38	20MHz	64QAM	38000	50RB#0	20.75
Band38	20MHz	64QAM	38000	50RB#25	20.84
Band38	20MHz	64QAM	38000	50RB#50	20.77
Band38	20MHz	64QAM	38000	100RB#0	20.78

Band38	20MHz	64QAM	38150	1RB#0	21.61
Band38	20MHz	64QAM	38150	1RB#49	21.56
Band38	20MHz	64QAM	38150	1RB#99	21.64
Band38	20MHz	64QAM	38150	50RB#0	20.77
Band38	20MHz	64QAM	38150	50RB#25	20.76
Band38	20MHz	64QAM	38150	50RB#50	20.81
Band38	20MHz	64QAM	38150	100RB#0	20.75
Band41	5MHz	QPSK	39675	1RB#0	25.4
Band41	5MHz	QPSK	39675	1RB#12	25.37
Band41	5MHz	QPSK	39675	1RB#24	25.39
Band41	5MHz	QPSK	39675	12RB#0	24.62
Band41	5MHz	QPSK	39675	12RB#6	24.63
Band41	5MHz	QPSK	39675	12RB#13	24.64
Band41	5MHz	QPSK	39675	25RB#0	24.63
Band41	5MHz	QPSK	40620	1RB#0	25.55
Band41	5MHz	QPSK	40620	1RB#12	25.63
Band41	5MHz	QPSK	40620	1RB#24	25.63
Band41	5MHz	QPSK	40620	12RB#0	24.74
Band41	5MHz	QPSK	40620	12RB#6	24.76
Band41	5MHz	QPSK	40620	12RB#13	24.74
Band41	5MHz	QPSK	40620	25RB#0	24.71
Band41	5MHz	QPSK	41565	1RB#0	25.51
Band41	5MHz	QPSK	41565	1RB#12	25.52
Band41	5MHz	QPSK	41565	1RB#24	25.51
Band41	5MHz	QPSK	41565	12RB#0	24.44
Band41	5MHz	QPSK	41565	12RB#6	24.46
Band41	5MHz	QPSK	41565	12RB#13	24.5
Band41	5MHz	QPSK	41565	25RB#0	24.43
Band41	5MHz	16QAM	39675	1RB#0	24.82
Band41	5MHz	16QAM	39675	1RB#12	24.77
Band41	5MHz	16QAM	39675	1RB#24	24.8
Band41	5MHz	16QAM	39675	12RB#0	23.63
Band41	5MHz	16QAM	39675	12RB#6	23.66
Band41	5MHz	16QAM	39675	12RB#13	23.67
Band41	5MHz	16QAM	39675	25RB#0	23.67
Band41	5MHz	16QAM	40620	1RB#0	24.83
Band41	5MHz	16QAM	40620	1RB#12	24.9
Band41	5MHz	16QAM	40620	1RB#24	24.88
Band41	5MHz	16QAM	40620	12RB#0	23.75
Band41	5MHz	16QAM	40620	12RB#6	23.74
Band41	5MHz	16QAM	40620	12RB#13	23.73
Band41	5MHz	16QAM	40620	25RB#0	23.74
Band41	5MHz	16QAM	41565	1RB#0	24.77
Band41	5MHz	16QAM	41565	1RB#12	24.93
Band41	5MHz	16QAM	41565	1RB#24	24.97

Band41	5MHz	16QAM	41565	12RB#0	23.4
Band41	5MHz	16QAM	41565	12RB#6	23.35
Band41	5MHz	16QAM	41565	12RB#13	23.57
Band41	5MHz	16QAM	41565	25RB#0	23.47
Band41	5MHz	64QAM	39675	1RB#0	23.33
Band41	5MHz	64QAM	39675	1RB#12	23.26
Band41	5MHz	64QAM	39675	1RB#24	23.29
Band41	5MHz	64QAM	39675	12RB#0	22.44
Band41	5MHz	64QAM	39675	12RB#6	22.43
Band41	5MHz	64QAM	39675	12RB#13	22.4
Band41	5MHz	64QAM	39675	25RB#0	22.42
Band41	5MHz	64QAM	40620	1RB#0	23.29
Band41	5MHz	64QAM	40620	1RB#12	23.22
Band41	5MHz	64QAM	40620	1RB#24	23.24
Band41	5MHz	64QAM	40620	12RB#0	22.37
Band41	5MHz	64QAM	40620	12RB#6	22.37
Band41	5MHz	64QAM	40620	12RB#13	22.37
Band41	5MHz	64QAM	40620	25RB#0	22.39
Band41	5MHz	64QAM	41565	1RB#0	23.12
Band41	5MHz	64QAM	41565	1RB#12	23.15
Band41	5MHz	64QAM	41565	1RB#24	23.21
Band41	5MHz	64QAM	41565	12RB#0	22.26
Band41	5MHz	64QAM	41565	12RB#6	22.3
Band41	5MHz	64QAM	41565	12RB#13	22.28
Band41	5MHz	64QAM	41565	25RB#0	22.27
Band41	10MHz	QPSK	39700	1RB#0	25.57
Band41	10MHz	QPSK	39700	1RB#24	25.53
Band41	10MHz	QPSK	39700	1RB#49	25.58
Band41	10MHz	QPSK	39700	25RB#0	24.69
Band41	10MHz	QPSK	39700	25RB#12	24.72
Band41	10MHz	QPSK	39700	25RB#25	24.73
Band41	10MHz	QPSK	39700	50RB#0	24.72
Band41	10MHz	QPSK	40620	1RB#0	25.71
Band41	10MHz	QPSK	40620	1RB#24	25.66
Band41	10MHz	QPSK	40620	1RB#49	25.66
Band41	10MHz	QPSK	40620	25RB#0	24.78
Band41	10MHz	QPSK	40620	25RB#12	24.8
Band41	10MHz	QPSK	40620	25RB#25	24.81
Band41	10MHz	QPSK	40620	50RB#0	24.81
Band41	10MHz	QPSK	41540	1RB#0	25.59
Band41	10MHz	QPSK	41540	1RB#24	25.52
Band41	10MHz	QPSK	41540	1RB#49	25.51
Band41	10MHz	QPSK	41540	25RB#0	24.5
Band41	10MHz	QPSK	41540	25RB#12	24.49
Band41	10MHz	QPSK	41540	25RB#25	24.7

Band41	10MHz	QPSK	41540	50RB#0	24.54
Band41	10MHz	16QAM	39700	1RB#0	24.65
Band41	10MHz	16QAM	39700	1RB#24	24.53
Band41	10MHz	16QAM	39700	1RB#49	24.67
Band41	10MHz	16QAM	39700	25RB#0	23.77
Band41	10MHz	16QAM	39700	25RB#12	23.74
Band41	10MHz	16QAM	39700	25RB#25	23.69
Band41	10MHz	16QAM	39700	50RB#0	23.72
Band41	10MHz	16QAM	40620	1RB#0	25.16
Band41	10MHz	16QAM	40620	1RB#24	25.06
Band41	10MHz	16QAM	40620	1RB#49	25.14
Band41	10MHz	16QAM	40620	25RB#0	23.93
Band41	10MHz	16QAM	40620	25RB#12	23.92
Band41	10MHz	16QAM	40620	25RB#25	23.95
Band41	10MHz	16QAM	40620	50RB#0	23.84
Band41	10MHz	16QAM	41540	1RB#0	24.53
Band41	10MHz	16QAM	41540	1RB#24	24.47
Band41	10MHz	16QAM	41540	1RB#49	24.47
Band41	10MHz	16QAM	41540	25RB#0	23.54
Band41	10MHz	16QAM	41540	25RB#12	23.51
Band41	10MHz	16QAM	41540	25RB#25	23.63
Band41	10MHz	16QAM	41540	50RB#0	23.58
Band41	10MHz	64QAM	39700	1RB#0	23.49
Band41	10MHz	64QAM	39700	1RB#24	23.47
Band41	10MHz	64QAM	39700	1RB#49	23.49
Band41	10MHz	64QAM	39700	25RB#0	22.7
Band41	10MHz	64QAM	39700	25RB#12	22.7
Band41	10MHz	64QAM	39700	25RB#25	22.68
Band41	10MHz	64QAM	39700	50RB#0	22.66
Band41	10MHz	64QAM	40620	1RB#0	23.56
Band41	10MHz	64QAM	40620	1RB#24	23.36
Band41	10MHz	64QAM	40620	1RB#49	23.41
Band41	10MHz	64QAM	40620	25RB#0	22.67
Band41	10MHz	64QAM	40620	25RB#12	22.64
Band41	10MHz	64QAM	40620	25RB#25	22.62
Band41	10MHz	64QAM	40620	50RB#0	22.65
Band41	10MHz	64QAM	41540	1RB#0	23.46
Band41	10MHz	64QAM	41540	1RB#24	23.39
Band41	10MHz	64QAM	41540	1RB#49	23.38
Band41	10MHz	64QAM	41540	25RB#0	22.52
Band41	10MHz	64QAM	41540	25RB#12	22.55
Band41	10MHz	64QAM	41540	25RB#25	22.58
Band41	10MHz	64QAM	41540	50RB#0	22.52
Band41	15MHz	QPSK	39725	1RB#0	25.34
Band41	15MHz	QPSK	39725	1RB#38	25.33

Band41	15MHz	QPSK	39725	1RB#74	25.42
Band41	15MHz	QPSK	39725	38RB#0	24.47
Band41	15MHz	QPSK	39725	38RB#18	24.5
Band41	15MHz	QPSK	39725	38RB#37	24.52
Band41	15MHz	QPSK	39725	75RB#0	24.49
Band41	15MHz	QPSK	40620	1RB#0	25.73
Band41	15MHz	QPSK	40620	1RB#38	25.44
Band41	15MHz	QPSK	40620	1RB#74	25.47
Band41	15MHz	QPSK	40620	38RB#0	24.61
Band41	15MHz	QPSK	40620	38RB#18	24.63
Band41	15MHz	QPSK	40620	38RB#37	24.64
Band41	15MHz	QPSK	40620	75RB#0	24.65
Band41	15MHz	QPSK	41515	1RB#0	25.57
Band41	15MHz	QPSK	41515	1RB#38	25.25
Band41	15MHz	QPSK	41515	1RB#74	25.28
Band41	15MHz	QPSK	41515	38RB#0	24.33
Band41	15MHz	QPSK	41515	38RB#18	24.49
Band41	15MHz	QPSK	41515	38RB#37	24.37
Band41	15MHz	QPSK	41515	75RB#0	24.41
Band41	15MHz	16QAM	39725	1RB#0	24.71
Band41	15MHz	16QAM	39725	1RB#38	24.25
Band41	15MHz	16QAM	39725	1RB#74	24.37
Band41	15MHz	16QAM	39725	38RB#0	24.46
Band41	15MHz	16QAM	39725	38RB#18	24.4
Band41	15MHz	16QAM	39725	38RB#37	24.43
Band41	15MHz	16QAM	39725	75RB#0	23.45
Band41	15MHz	16QAM	40620	1RB#0	24.84
Band41	15MHz	16QAM	40620	1RB#38	24.79
Band41	15MHz	16QAM	40620	1RB#74	24.89
Band41	15MHz	16QAM	40620	38RB#0	24.58
Band41	15MHz	16QAM	40620	38RB#18	24.57
Band41	15MHz	16QAM	40620	38RB#37	24.58
Band41	15MHz	16QAM	40620	75RB#0	23.62
Band41	15MHz	16QAM	41515	1RB#0	24.45
Band41	15MHz	16QAM	41515	1RB#38	24.42
Band41	15MHz	16QAM	41515	1RB#74	24.5
Band41	15MHz	16QAM	41515	38RB#0	24.34
Band41	15MHz	16QAM	41515	38RB#18	24.31
Band41	15MHz	16QAM	41515	38RB#37	24.44
Band41	15MHz	16QAM	41515	75RB#0	23.34
Band41	15MHz	64QAM	39725	1RB#0	23.26
Band41	15MHz	64QAM	39725	1RB#38	23.34
Band41	15MHz	64QAM	39725	1RB#74	23.3
Band41	15MHz	64QAM	39725	38RB#0	23.28
Band41	15MHz	64QAM	39725	38RB#18	23.33

Band41	15MHz	64QAM	39725	38RB#37	23.33
Band41	15MHz	64QAM	39725	75RB#0	22.53
Band41	15MHz	64QAM	40620	1RB#0	23.29
Band41	15MHz	64QAM	40620	1RB#38	23.24
Band41	15MHz	64QAM	40620	1RB#74	23.3
Band41	15MHz	64QAM	40620	38RB#0	23.31
Band41	15MHz	64QAM	40620	38RB#18	23.43
Band41	15MHz	64QAM	40620	38RB#37	23.23
Band41	15MHz	64QAM	40620	75RB#0	22.46
Band41	15MHz	64QAM	41515	1RB#0	23.3
Band41	15MHz	64QAM	41515	1RB#38	23.27
Band41	15MHz	64QAM	41515	1RB#74	23.29
Band41	15MHz	64QAM	41515	38RB#0	23.29
Band41	15MHz	64QAM	41515	38RB#18	23.34
Band41	15MHz	64QAM	41515	38RB#37	23.24
Band41	15MHz	64QAM	41515	75RB#0	22.37
Band41	20MHz	QPSK	39750	1RB#0	25.33
Band41	20MHz	QPSK	39750	1RB#49	25.3
Band41	20MHz	QPSK	39750	1RB#99	25.4
Band41	20MHz	QPSK	39750	50RB#0	24.4
Band41	20MHz	QPSK	39750	50RB#25	24.36
Band41	20MHz	QPSK	39750	50RB#50	24.51
Band41	20MHz	QPSK	39750	100RB#0	24.49
Band41	20MHz	QPSK	40620	1RB#0	25.53
Band41	20MHz	QPSK	40620	1RB#49	25.52
Band41	20MHz	QPSK	40620	1RB#99	25.58
Band41	20MHz	QPSK	40620	50RB#0	24.58
Band41	20MHz	QPSK	40620	50RB#25	24.59
Band41	20MHz	QPSK	40620	50RB#50	24.63
Band41	20MHz	QPSK	40620	100RB#0	24.65
Band41	20MHz	QPSK	41490	1RB#0	25.48
Band41	20MHz	QPSK	41490	1RB#49	25.38
Band41	20MHz	QPSK	41490	1RB#99	25.43
Band41	20MHz	QPSK	41490	50RB#0	24.47
Band41	20MHz	QPSK	41490	50RB#25	24.46
Band41	20MHz	QPSK	41490	50RB#50	24.51
Band41	20MHz	QPSK	41490	100RB#0	24.5
Band41	20MHz	16QAM	39750	1RB#0	24.56
Band41	20MHz	16QAM	39750	1RB#49	24.63
Band41	20MHz	16QAM	39750	1RB#99	24.71
Band41	20MHz	16QAM	39750	50RB#0	23.41
Band41	20MHz	16QAM	39750	50RB#25	23.44
Band41	20MHz	16QAM	39750	50RB#50	23.47
Band41	20MHz	16QAM	39750	100RB#0	23.51
Band41	20MHz	16QAM	40620	1RB#0	24.25



Band41	20MHz	16QAM	40620	1RB#49	24.16
Band41	20MHz	16QAM	40620	1RB#99	24.27
Band41	20MHz	16QAM	40620	50RB#0	23.6
Band41	20MHz	16QAM	40620	50RB#25	23.61
Band41	20MHz	16QAM	40620	50RB#50	23.66
Band41	20MHz	16QAM	40620	100RB#0	23.66
Band41	20MHz	16QAM	41490	1RB#0	24.4
Band41	20MHz	16QAM	41490	1RB#49	24.37
Band41	20MHz	16QAM	41490	1RB#99	24.35
Band41	20MHz	16QAM	41490	50RB#0	23.41
Band41	20MHz	16QAM	41490	50RB#25	23.4
Band41	20MHz	16QAM	41490	50RB#50	23.44
Band41	20MHz	16QAM	41490	100RB#0	23.53
Band41	20MHz	64QAM	39750	1RB#0	23.23
Band41	20MHz	64QAM	39750	1RB#49	23.33
Band41	20MHz	64QAM	39750	1RB#99	23.33
Band41	20MHz	64QAM	39750	50RB#0	22.43
Band41	20MHz	64QAM	39750	50RB#25	22.5
Band41	20MHz	64QAM	39750	50RB#50	22.45
Band41	20MHz	64QAM	39750	100RB#0	22.44
Band41	20MHz	64QAM	40620	1RB#0	23.31
Band41	20MHz	64QAM	40620	1RB#49	23.24
Band41	20MHz	64QAM	40620	1RB#99	23.21
Band41	20MHz	64QAM	40620	50RB#0	22.4
Band41	20MHz	64QAM	40620	50RB#25	22.46
Band41	20MHz	64QAM	40620	50RB#50	22.38
Band41	20MHz	64QAM	40620	100RB#0	22.4
Band41	20MHz	64QAM	41490	1RB#0	23.32
Band41	20MHz	64QAM	41490	1RB#49	23.19
Band41	20MHz	64QAM	41490	1RB#99	23.21
Band41	20MHz	64QAM	41490	50RB#0	22.39
Band41	20MHz	64QAM	41490	50RB#25	22.41
Band41	20MHz	64QAM	41490	50RB#50	22.35
Band41	20MHz	64QAM	41490	100RB#0	22.39

**LTE-CA:**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)
41-41	10MHz-15MHz	QPSK-QPSK	39703-39823	12RB#0-0RB#0	22.81
41-41	10MHz-15MHz	QPSK-QPSK	39703-39823	1RB#0-0RB#0	22.77
41-41	10MHz-15MHz	QPSK-QPSK	40549-40669	12RB#0-0RB#0	22.72
41-41	10MHz-15MHz	QPSK-QPSK	40549-40669	1RB#0-0RB#0	22.69
41-41	10MHz-15MHz	QPSK-QPSK	41395-41515	12RB#0-0RB#0	22.72
41-41	10MHz-15MHz	QPSK-QPSK	41395-41515	1RB#0-0RB#0	22.71
41-41	10MHz-15MHz	16QAM-16QAM	39703-39823	12RB#0-0RB#0	21.90

41-41	10MHz-15MHz	16QAM-16QAM	39703-39823	1RB#0-0RB#0	21.87
41-41	10MHz-15MHz	16QAM-16QAM	40549-40669	12RB#0-0RB#0	21.81
41-41	10MHz-15MHz	16QAM-16QAM	40549-40669	1RB#0-0RB#0	21.73
41-41	10MHz-15MHz	16QAM-16QAM	41395-41515	12RB#0-0RB#0	21.83
41-41	10MHz-15MHz	16QAM-16QAM	41395-41515	1RB#0-0RB#0	21.84
41-41	10MHz-15MHz	64QAM-64QAM	39703-39823	12RB#0-0RB#0	20.98
41-41	10MHz-15MHz	64QAM-64QAM	39703-39823	1RB#0-0RB#0	20.84
41-41	10MHz-15MHz	64QAM-64QAM	40549-40669	12RB#0-0RB#0	20.88
41-41	10MHz-15MHz	64QAM-64QAM	40549-40669	1RB#0-0RB#0	20.78
41-41	10MHz-15MHz	64QAM-64QAM	41395-41515	12RB#0-0RB#0	20.86
41-41	10MHz-15MHz	64QAM-64QAM	41395-41515	1RB#0-0RB#0	20.80
41-41	10MHz-20MHz	QPSK-QPSK	39705-39849	12RB#0-0RB#0	22.70
41-41	10MHz-20MHz	QPSK-QPSK	39705-39849	1RB#0-0RB#0	22.68
41-41	10MHz-20MHz	QPSK-QPSK	40526-40670	12RB#0-0RB#0	22.81
41-41	10MHz-20MHz	QPSK-QPSK	40526-40670	1RB#0-0RB#0	22.75
41-41	10MHz-20MHz	QPSK-QPSK	41346-41490	12RB#0-0RB#0	22.72
41-41	10MHz-20MHz	QPSK-QPSK	41346-41490	1RB#0-0RB#0	22.70
41-41	10MHz-20MHz	16QAM-16QAM	39705-39849	12RB#0-0RB#0	21.83
41-41	10MHz-20MHz	16QAM-16QAM	39705-39849	1RB#0-0RB#0	21.79
41-41	10MHz-20MHz	16QAM-16QAM	40526-40670	12RB#0-0RB#0	21.88
41-41	10MHz-20MHz	16QAM-16QAM	40526-40670	1RB#0-0RB#0	21.81
41-41	10MHz-20MHz	16QAM-16QAM	41346-41490	12RB#0-0RB#0	21.90
41-41	10MHz-20MHz	16QAM-16QAM	41346-41490	1RB#0-0RB#0	21.74
41-41	10MHz-20MHz	64QAM-64QAM	39705-39849	12RB#0-0RB#0	20.84
41-41	10MHz-20MHz	64QAM-64QAM	39705-39849	1RB#0-0RB#0	20.78
41-41	10MHz-20MHz	64QAM-64QAM	40526-40670	12RB#0-0RB#0	20.96
41-41	10MHz-20MHz	64QAM-64QAM	40526-40670	1RB#0-0RB#0	20.90
41-41	10MHz-20MHz	64QAM-64QAM	41346-41490	12RB#0-0RB#0	20.89
41-41	10MHz-20MHz	64QAM-64QAM	41346-41490	1RB#0-0RB#0	20.92
41-41	15MHz-10MHz	QPSK-QPSK	39725-39845	16RB#0-0RB#0	21.67
41-41	15MHz-10MHz	QPSK-QPSK	39725-39845	1RB#0-0RB#0	22.66
41-41	15MHz-10MHz	QPSK-QPSK	40571-40691	16RB#0-0RB#0	21.69
41-41	15MHz-10MHz	QPSK-QPSK	40571-40691	1RB#0-0RB#0	22.66
41-41	15MHz-10MHz	QPSK-QPSK	41417-41537	16RB#0-0RB#0	21.61
41-41	15MHz-10MHz	QPSK-QPSK	41417-41537	1RB#0-0RB#0	22.61
41-41	15MHz-10MHz	16QAM-16QAM	39725-39845	16RB#0-0RB#0	20.83

41-41	15MHz-10MHz	16QAM-16QAM	39725-39845	1RB#0-0RB#0	21.74
41-41	15MHz-10MHz	16QAM-16QAM	40571-40691	16RB#0-0RB#0	20.82
41-41	15MHz-10MHz	16QAM-16QAM	40571-40691	1RB#0-0RB#0	21.69
41-41	15MHz-10MHz	16QAM-16QAM	41417-41537	16RB#0-0RB#0	20.73
41-41	15MHz-10MHz	16QAM-16QAM	41417-41537	1RB#0-0RB#0	21.63
41-41	15MHz-10MHz	64QAM-64QAM	39725-39845	16RB#0-0RB#0	19.80
41-41	15MHz-10MHz	64QAM-64QAM	39725-39845	1RB#0-0RB#0	20.74
41-41	15MHz-10MHz	64QAM-64QAM	40571-40691	16RB#0-0RB#0	19.76
41-41	15MHz-10MHz	64QAM-64QAM	40571-40691	1RB#0-0RB#0	20.71
41-41	15MHz-10MHz	64QAM-64QAM	41417-41537	16RB#0-0RB#0	19.70
41-41	15MHz-10MHz	64QAM-64QAM	41417-41537	1RB#0-0RB#0	20.67
41-41	15MHz-15MHz	QPSK-QPSK	39725-39875	16RB#0-0RB#0	22.74
41-41	15MHz-15MHz	QPSK-QPSK	39725-39875	1RB#0-0RB#0	22.67
41-41	15MHz-15MHz	QPSK-QPSK	40545-40695	16RB#0-0RB#0	22.77
41-41	15MHz-15MHz	QPSK-QPSK	40545-40695	1RB#0-0RB#0	22.73
41-41	15MHz-15MHz	QPSK-QPSK	41365-41515	16RB#0-0RB#0	22.60
41-41	15MHz-15MHz	QPSK-QPSK	41365-41515	1RB#0-0RB#0	22.56
41-41	15MHz-15MHz	16QAM-16QAM	39725-39875	16RB#0-0RB#0	21.85
41-41	15MHz-15MHz	16QAM-16QAM	39725-39875	1RB#0-0RB#0	21.76
41-41	15MHz-15MHz	16QAM-16QAM	40545-40695	16RB#0-0RB#0	21.90
41-41	15MHz-15MHz	16QAM-16QAM	40545-40695	1RB#0-0RB#0	21.93
41-41	15MHz-15MHz	16QAM-16QAM	41365-41515	16RB#0-0RB#0	21.73
41-41	15MHz-15MHz	16QAM-16QAM	41365-41515	1RB#0-0RB#0	21.94
41-41	15MHz-15MHz	64QAM-64QAM	39725-39875	16RB#0-0RB#0	22.18
41-41	15MHz-15MHz	64QAM-64QAM	39725-39875	1RB#0-0RB#0	20.15
41-41	15MHz-15MHz	64QAM-64QAM	40545-40695	16RB#0-0RB#0	22.19
41-41	15MHz-15MHz	64QAM-64QAM	40545-40695	1RB#0-0RB#0	20.37
41-41	15MHz-15MHz	64QAM-64QAM	41365-41515	16RB#0-0RB#0	22.18
41-41	15MHz-15MHz	64QAM-64QAM	41365-41515	1RB#0-0RB#0	20.25
41-41	15MHz-20MHz	QPSK-QPSK	39728-39899	16RB#0-0RB#0	22.56
41-41	15MHz-20MHz	QPSK-QPSK	39728-39899	1RB#0-0RB#0	22.57
41-41	15MHz-20MHz	QPSK-QPSK	40523-40694	16RB#0-0RB#0	22.60
41-41	15MHz-20MHz	QPSK-QPSK	40523-40694	1RB#0-0RB#0	22.60
41-41	15MHz-20MHz	QPSK-QPSK	41319-41490	16RB#0-0RB#0	22.68
41-41	15MHz-20MHz	QPSK-QPSK	41319-41490	1RB#0-0RB#0	20.12
41-41	15MHz-20MHz	16QAM-16QAM	39728-39899	16RB#0-0RB#0	21.72

41-41	15MHz-20MHz	16QAM-16QAM	39728-39899	1RB#0-0RB#0	21.63
41-41	15MHz-20MHz	16QAM-16QAM	40523-40694	16RB#0-0RB#0	21.75
41-41	15MHz-20MHz	16QAM-16QAM	40523-40694	1RB#0-0RB#0	21.75
41-41	15MHz-20MHz	16QAM-16QAM	41319-41490	16RB#0-0RB#0	21.80
41-41	15MHz-20MHz	16QAM-16QAM	41319-41490	1RB#0-0RB#0	22.00
41-41	15MHz-20MHz	64QAM-64QAM	39728-39899	16RB#0-0RB#0	20.67
41-41	15MHz-20MHz	64QAM-64QAM	39728-39899	1RB#0-0RB#0	20.61
41-41	15MHz-20MHz	64QAM-64QAM	40523-40694	16RB#0-0RB#0	20.70
41-41	15MHz-20MHz	64QAM-64QAM	40523-40694	1RB#0-0RB#0	20.71
41-41	15MHz-20MHz	64QAM-64QAM	41319-41490	16RB#0-0RB#0	20.76
41-41	15MHz-20MHz	64QAM-64QAM	41319-41490	1RB#0-0RB#0	20.75
41-41	20MHz-10MHz	QPSK-QPSK	39750-39894	18RB#0-0RB#0	21.66
41-41	20MHz-10MHz	QPSK-QPSK	39750-39894	1RB#0-0RB#0	22.61
41-41	20MHz-10MHz	QPSK-QPSK	40571-40715	18RB#0-0RB#0	21.73
41-41	20MHz-10MHz	QPSK-QPSK	40571-40715	1RB#0-0RB#0	22.63
41-41	20MHz-10MHz	QPSK-QPSK	41391-41535	18RB#0-0RB#0	21.66
41-41	20MHz-10MHz	QPSK-QPSK	41391-41535	1RB#0-0RB#0	22.61
41-41	20MHz-10MHz	16QAM-16QAM	39750-39894	18RB#0-0RB#0	20.78
41-41	20MHz-10MHz	16QAM-16QAM	39750-39894	1RB#0-0RB#0	21.67
41-41	20MHz-10MHz	16QAM-16QAM	40571-40715	18RB#0-0RB#0	20.84
41-41	20MHz-10MHz	16QAM-16QAM	40571-40715	1RB#0-0RB#0	21.96
41-41	20MHz-10MHz	16QAM-16QAM	41391-41535	18RB#0-0RB#0	20.78
41-41	20MHz-10MHz	16QAM-16QAM	41391-41535	1RB#0-0RB#0	21.65
41-41	20MHz-10MHz	64QAM-64QAM	39750-39894	18RB#0-0RB#0	19.75
41-41	20MHz-10MHz	64QAM-64QAM	39750-39894	1RB#0-0RB#0	20.66
41-41	20MHz-10MHz	64QAM-64QAM	40571-40715	18RB#0-0RB#0	19.75
41-41	20MHz-10MHz	64QAM-64QAM	40571-40715	1RB#0-0RB#0	20.78
41-41	20MHz-10MHz	64QAM-64QAM	41391-41535	18RB#0-0RB#0	19.77
41-41	20MHz-10MHz	64QAM-64QAM	41391-41535	1RB#0-0RB#0	20.82
41-41	20MHz-15MHz	QPSK-QPSK	39750-39921	18RB#0-0RB#0	21.71
41-41	20MHz-15MHz	QPSK-QPSK	39750-39921	1RB#0-0RB#0	22.63
41-41	20MHz-15MHz	QPSK-QPSK	40546-40717	18RB#0-0RB#0	21.79
41-41	20MHz-15MHz	QPSK-QPSK	40546-40717	1RB#0-0RB#0	22.67
41-41	20MHz-15MHz	QPSK-QPSK	41341-41512	18RB#0-0RB#0	21.70
41-41	20MHz-15MHz	QPSK-QPSK	41341-41512	1RB#0-0RB#0	22.58
41-41	20MHz-15MHz	16QAM-16QAM	39750-39921	18RB#0-0RB#0	20.84

41-41	20MHz-15MHz	16QAM-16QAM	39750-39921	1RB#0-0RB#0	21.80
41-41	20MHz-15MHz	16QAM-16QAM	40546-40717	18RB#0-0RB#0	20.90
41-41	20MHz-15MHz	16QAM-16QAM	40546-40717	1RB#0-0RB#0	21.77
41-41	20MHz-15MHz	16QAM-16QAM	41341-41512	18RB#0-0RB#0	20.83
41-41	20MHz-15MHz	16QAM-16QAM	41341-41512	1RB#0-0RB#0	21.80
41-41	20MHz-15MHz	64QAM-64QAM	39750-39921	18RB#0-0RB#0	19.78
41-41	20MHz-15MHz	64QAM-64QAM	39750-39921	1RB#0-0RB#0	20.70
41-41	20MHz-15MHz	64QAM-64QAM	40546-40717	18RB#0-0RB#0	19.85
41-41	20MHz-15MHz	64QAM-64QAM	40546-40717	1RB#0-0RB#0	20.79
41-41	20MHz-15MHz	64QAM-64QAM	41341-41512	18RB#0-0RB#0	19.76
41-41	20MHz-15MHz	64QAM-64QAM	41341-41512	1RB#0-0RB#0	20.76
41-41	20MHz-20MHz	QPSK-QPSK	39750-39948	18RB#0-0RB#0	22.64
41-41	20MHz-20MHz	QPSK-QPSK	39750-39948	1RB#0-0RB#0	22.55
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	18RB#0-0RB#0	22.71
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	1RB#0-0RB#0	22.69
41-41	20MHz-20MHz	QPSK-QPSK	41292-41490	18RB#0-0RB#0	22.69
41-41	20MHz-20MHz	QPSK-QPSK	41292-41490	1RB#0-0RB#0	22.59
41-41	20MHz-20MHz	16QAM-16QAM	39750-39948	18RB#0-0RB#0	21.76
41-41	20MHz-20MHz	16QAM-16QAM	39750-39948	1RB#0-0RB#0	21.69
41-41	20MHz-20MHz	16QAM-16QAM	40521-40719	18RB#0-0RB#0	21.90
41-41	20MHz-20MHz	16QAM-16QAM	40521-40719	1RB#0-0RB#0	21.78
41-41	20MHz-20MHz	16QAM-16QAM	41292-41490	18RB#0-0RB#0	21.81
41-41	20MHz-20MHz	16QAM-16QAM	41292-41490	1RB#0-0RB#0	21.59
41-41	20MHz-20MHz	64QAM-64QAM	39750-39948	18RB#0-0RB#0	20.72
41-41	20MHz-20MHz	64QAM-64QAM	39750-39948	1RB#0-0RB#0	20.64
41-41	20MHz-20MHz	64QAM-64QAM	40521-40719	18RB#0-0RB#0	20.88
41-41	20MHz-20MHz	64QAM-64QAM	40521-40719	1RB#0-0RB#0	21.12
41-41	20MHz-20MHz	64QAM-64QAM	41292-41490	18RB#0-0RB#0	20.78
41-41	20MHz-20MHz	64QAM-64QAM	41292-41490	1RB#0-0RB#0	20.84
41-41	20MHz-5MHz	QPSK-QPSK	39750-39867	18RB#0-0RB#0	21.67
41-41	20MHz-5MHz	QPSK-QPSK	39750-39867	1RB#0-0RB#0	22.62
41-41	20MHz-5MHz	QPSK-QPSK	40595-40712	18RB#0-0RB#0	21.71
41-41	20MHz-5MHz	QPSK-QPSK	40595-40712	1RB#0-0RB#0	22.62
41-41	20MHz-5MHz	QPSK-QPSK	41440-41557	18RB#0-0RB#0	21.68
41-41	20MHz-5MHz	QPSK-QPSK	41440-41557	1RB#0-0RB#0	22.55
41-41	20MHz-5MHz	16QAM-16QAM	39750-39867	18RB#0-0RB#0	20.75

41-41	20MHz-5MHz	16QAM-16QAM	39750-39867	1RB#0-0RB#0	21.70
41-41	20MHz-5MHz	16QAM-16QAM	40595-40712	18RB#0-0RB#0	20.83
41-41	20MHz-5MHz	16QAM-16QAM	40595-40712	1RB#0-0RB#0	21.95
41-41	20MHz-5MHz	16QAM-16QAM	41440-41557	18RB#0-0RB#0	20.74
41-41	20MHz-5MHz	16QAM-16QAM	41440-41557	1RB#0-0RB#0	21.79
41-41	20MHz-5MHz	64QAM-64QAM	39750-39867	18RB#0-0RB#0	19.76
41-41	20MHz-5MHz	64QAM-64QAM	39750-39867	1RB#0-0RB#0	20.67
41-41	20MHz-5MHz	64QAM-64QAM	40595-40712	18RB#0-0RB#0	19.79
41-41	20MHz-5MHz	64QAM-64QAM	40595-40712	1RB#0-0RB#0	20.74
41-41	20MHz-5MHz	64QAM-64QAM	41440-41557	18RB#0-0RB#0	19.64
41-41	20MHz-5MHz	64QAM-64QAM	41440-41557	1RB#0-0RB#0	20.73
41-41	5MHz-20MHz	QPSK-QPSK	39683-39800	1RB#0-0RB#0	22.67
41-41	5MHz-20MHz	QPSK-QPSK	39683-39800	8RB#0-0RB#0	22.69
41-41	5MHz-20MHz	QPSK-QPSK	40528-40645	1RB#0-0RB#0	22.68
41-41	5MHz-20MHz	QPSK-QPSK	40528-40645	8RB#0-0RB#0	22.64
41-41	5MHz-20MHz	QPSK-QPSK	41373-41490	1RB#0-0RB#0	22.57
41-41	5MHz-20MHz	QPSK-QPSK	41373-41490	8RB#0-0RB#0	22.56
41-41	5MHz-20MHz	16QAM-16QAM	39683-39800	1RB#0-0RB#0	21.80
41-41	5MHz-20MHz	16QAM-16QAM	39683-39800	8RB#0-0RB#0	21.92
41-41	5MHz-20MHz	16QAM-16QAM	40528-40645	1RB#0-0RB#0	21.70
41-41	5MHz-20MHz	16QAM-16QAM	40528-40645	8RB#0-0RB#0	21.87
41-41	5MHz-20MHz	16QAM-16QAM	41373-41490	1RB#0-0RB#0	21.61
41-41	5MHz-20MHz	16QAM-16QAM	41373-41490	8RB#0-0RB#0	21.84
41-41	5MHz-20MHz	64QAM-64QAM	39683-39800	1RB#0-0RB#0	20.77
41-41	5MHz-20MHz	64QAM-64QAM	39683-39800	8RB#0-0RB#0	20.73
41-41	5MHz-20MHz	64QAM-64QAM	40528-40645	1RB#0-0RB#0	20.75
41-41	5MHz-20MHz	64QAM-64QAM	40528-40645	8RB#0-0RB#0	20.71
41-41	5MHz-20MHz	64QAM-64QAM	41373-41490	1RB#0-0RB#0	20.71
41-41	5MHz-20MHz	64QAM-64QAM	41373-41490	8RB#0-0RB#0	20.62

Note: FCC rule Part 22.905 of LTE Band 26 (824-849MHz) is covered by LTE band 5 of same rule, since they have the same output power and supported bandwidths. In this report, only test FCC rule Part 90S of LTE Band 26 (814-824MHz) and Part 22.905 of LTE Band 26 (824-849MHz) bandwidth 15MHz.

### **3.6. Environmental Conditions**

Date of test : Mar.14, 2023 – Apr.14, 2023

Date of EUT Receive : Mar.14, 2023

Temperature: (22-26) °C

Relative Humidity: (44-51)%

Air Pressure: (100.7-101.9) kPa

### **3.7. Special Accessories**

Not available for this EUT intended for grant.

### **3.8. Equipment Modifications**

Not available for this EUT intended for grant.

#### 4. TEST EQUIPMENT USED

##### Conducted test equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB18827	Wideband Radio communication Tester	Rohde & Schwarz	CMW500	Apr.26, 2022	1 Year
SB9721/02	Signal Analyzer	Agilent	N9020A	Jun.06, 2022	1 Year
SB20321/01	Signal Analyzer	Rohde & Schwarz	FSV3044	Dec.16, 2022	1 Year
SB9721/07	DC Power Supply	Agilent	66319D	--	--
SB11818	Temperature & Humidity Test chamber	Espec	EH-010U	Dec.16, 2022	1 Year
--	Test Software	Tonscend	JS1120	--	--

##### Radiated spurious test equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB8501/09	EMI Test Receiver	Rohde & Schwarz	ESU40	Jan.19, 2023	1 Year
SB9054/08	Bilog Antenna	Schwarzbeck	VULB9163	Dec.29, 2022	1 Year
SB3435	Horn Antenna	Rohde & Schwarz	HF906	Dec.03, 2022	1 Year
SB8501/11	Horn Antenna	ETS-Lindgren	3160-09	Feb.22, 2023	3 Year
SB8501/12	Horn Antenna	ETS-Lindgren	3160-10	Feb.22, 2023	3 Year
SB8501/14	Preamplifier	Rohde & Schwarz	SCU-03	Jan.31, 2023	1 Year
SB8501/17	Preamplifier	Rohde & Schwarz	SCU-18	Jan.31, 2023	1 Year
SB8501/16	Preamplifier	Rohde & Schwarz	SCU-26	Jan.31, 2023	1 Year
SB9059	Preamplifier	Rohde & Schwarz	SCU-40	Aug.10, 2022	1 Year
SB12724/06	Wideband Radio communication Tester	Rohde & Schwarz	CMW500	Apr.26, 2022	1 Year
--	Radiated Test Software	Rohde & Schwarz	EMC 32	--	--
SB9555/02	Fully Anechoic Chamber	Albatross	10.0*5.2*5.4(m)	Aug.16,2022	1 Year
SB15044/01	Test Receiver	Rohde & Schwarz	ESW8	Sep.13,2022	1 Year
SB12944	Broadband Antenna	Rohde & Schwarz	VULB9163	Dec.29,2022	1 Year
SB18844	Semi Anechoic Chamber	Albatross	9*6*6(m)	Mar.20,2023	1 Year



## 5. MEASUREMENT UNCERTAINTY

For a 95% confidence level ( $k = 2$ ), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

26dB & Occupied Bandwidth:  $\pm 0.39\%$

Frequency Stability:  $\pm 0.42\%$

Peak to Average Ratio:  $\pm 0.45$  dB

Conducted power:  $\pm 0.3$  dB

Conducted Spurious Emissions:  $\pm 2.0$  dB

Conducted Band Edge:  $\pm 2.0$  dB

Temperature:  $\pm 0.698$  °C

Supply voltages:  $\pm 0.15\%$

Radiated Emission:

30MHz~1000MHz 4.5dB

1GHz~6GHz 4.6dB

6GHz~18GHz 5.1dB

18GHz~26.5GHz 5.1dB

## 6. TEST ITEMS

### 6.1. Conducted Power & Effective Radiated Power

#### 6.1.1. Test Standard

FCC: CFR Part 2.1046, CFR Part 22.913, CFR Part 24.232 CFR Part 27.50, CFR Part 90.635

#### 6.1.2. Test Limit

22.913 (a) Effective radiated power limits.

The effective radiated power (ERP) of mobile transmitters must not exceed 7 Watts.

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.

27.50(a) (3), for mobile and portable stations transmitting in the 2305-2315MHz band or the 2350-2360MHz 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.

27.50(b) (10), portable stations (hand-held devices) transmitting in the 746-757MHz, 776-788MHz, and 805-806MHz bands are limited to 3 watts ERP.

FCC section 27.50(c) (10), portable stations (hand-held devices) in the 600MHz uplink band and the 698-746MHz band, and fixed and mobile stations in the 600MHz uplink band are limited to 3 watts ERP.

27.50(d) (4), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications. (7) Fixed, mobile, and portable (hand-held) stations operating in the 2000-2020 MHz band are limited to 2 watts EIRP.

27.50(h) (2), for 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.

90.635(b), the maximum output power of the transmitter for mobile stations is 100 watts (20dBW).

### 6.1.3. Test Procedure

KDB 971168 Section 5.6

$EIRP \text{ (dBm)} = ERP \text{ (dBm)} + 2.15 \text{ (dB)}$

$ERP/EIRP = P_{Meas} + GT - LC$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P<sub>Meas</sub>, typically dBW or dBm);

P<sub>Meas</sub> = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted and ERP/EIRP output powers.

### 6.1.4. Test Data

Please refer to Appendix A

## 6.2. Peak to Average Ratio

### 6.2.1. Test Standard

FCC: CFR 47 (FCC) Part 22.913, 24.232(d) & 27.50(d)

### 6.2.2. Test Limit

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

### 6.2.3. Test Procedure

According to KDB 971168 D01, there is CCDF procedure for PAPR:  
Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;

Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;

Set the number of counts to a value that stabilizes the measured CCDF curve;

Set the measurement interval as follows:

for continuous transmissions, set to 1 ms,

for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

Record the maximum PAPR level associated with a probability of 0.1%.

Alternate procedure for PAPR:

Use one of the procedures presented in 4.1 to measure the total peak power and record as PPk. Use one of the applicable procedures presented 4.2 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$PAPR (dB) = PPk (dBm) - PAvg (dBm).$

### 6.2.4. Test Data

Please refer to Appendix B

## **6.3. Occupied Bandwidth & Emission Bandwidth**

### **6.3.1. Test Standard**

FCC: CFR Part 2.1049, Part 22.913, Part 24.238, Part 27.53

### **6.3.2. Test Limit**

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the following conditions as applicable.

Transmitters employing digital modulation techniques-when modulated by an input signal such that its amplitude and symbol rate represent the maximum rated conditions under which the equipment will be operated.

### **6.3.3. Test Procedure**

1. Connect the equipment as shown in the above diagram.
2. Adjust the settings of the Universal Radio Communication Tester (CMU/CMW) to set the EUT to its maximum power at the required channel.
3. Set the spectrum analyzer to measure the 99% occupied bandwidth. Record the value.
4. Set the spectrum analyzer to measure the -26 dB emission bandwidth. Record the value.
5. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.

Spectrum analyzer settings: Measurement bandwidth of at least 1% of the occupied bandwidth.

### **6.3.4. Test Data**

Please refer to Appendix C

## 6.4. Conducted Band Edge

### 6.4.1. Test Standard

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(g) & 27.53(h) & 27.53(m) & 90.691 & 90.543

### 6.4.2. Test Limit

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 22.917(a) & 24.238(a)

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. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

By a factor of not less than:  $43 + 10 \log(P)$  dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than  $55 + 10 \log(P)$  dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than  $61 + 10 \log(P)$  dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than  $67 + 10 \log(P)$  dB on all frequencies between 2328 and 2337MHz.

By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2300 and 2305MHz,  $55 + 10 \log(P)$  dB on all frequencies between 2296 and 2300MHz,  $61 + 10 \log(P)$  dB on all frequencies between 2292 and 2296MHz,  $67 + 10 \log(P)$  dB on all frequencies between 2288 and 2292MHz, and  $70 + 10 \log(P)$  dB below 2288MHz.

By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2360 and 2365MHz, and not less than  $70 + 10 \log(P)$  dB above 2365MHz.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;

On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;

On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $76 + 10 \log (P)$  dB in a 6.25 kHz band segment, for base and fixed stations;

On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations;

Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

#### FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log(P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

#### FCC § 27.53(h) (1)

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 (BRS and EBS stations), the attenuation factor shall be not less than:

$40 + 10 \log P$  dB (–10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.

$43 + 10 \log P$  dB (–13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,

$55 + 10 \log P$  dB (–25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

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 § 90.691

Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \text{ Log}_{10}(f/6.1)$  decibels or  $50 + 10 \text{ Log}_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \text{ Log}_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC § 90.543

(e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than  $76 + 10 \log (P)$  dB in a 6.25 kHz band segment, for base and fixed stations.

On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations.

On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least  $43 + 10 \log (P)$  dB.

Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.



#### 6.4.3. Test Procedure

1. Connect the equipment as shown in the above diagram with the EUT's antenna in a horizontal orientation.
2. Adjust the settings of the Wideband Radio Communication Tester to set the EUT to its maximum power at the required channel.
3. Set the spectrum analyzer to measure peak hold with the required settings.
4. Place the measurement antenna in a horizontal orientation. Rotate the EUT 360 . Raise the measurement antenna up to 4 meters in 0.5 meters increments and rotate the EUT 360 at each height to maximize all emissions. Measure and record all spurious emissions (LVL) up to the tenth harmonic of the carrier frequency.
5. Replace the EUT with a horizontally polarized half wave dipole or known gain antenna. The center of the antenna should be at the same location as the center of the EUT's antenna.
6. Connect the antenna to a signal generator with known output power and record the path loss in dB (LOSS).  $LOSS = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$ .
7. Determine the level of spurious emissions using the following equation:  
 $\text{Spurious (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$
8. Repeat steps 4, 5 and 6 with all antennas vertically polarized.
9. Determine the level of spurious emissions using the following equation:  
 $\text{Spurious (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$
10. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.  
(Note: Steps 5 and 6 above are performed prior to testing and LOSS is recorded by test software. Steps 3, 4 and 7 above are performed with test software.)  
Spectrum analyzer settings: RBW=1MHz, VBW=3\*RBW

#### 6.4.4. Test Data

Please refer to Appendix D

## 6.5. Conducted Spurious Emissions

### 6.5.1. Test Standard

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(m) & 90.691 & 90.543.

### 6.5.2. Test Limit

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 22.917(a) & 24.238(a)

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. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

By a factor of not less than:  $43 + 10 \log(P)$  dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than  $55 + 10 \log(P)$  dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than  $61 + 10 \log(P)$  dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than  $67 + 10 \log(P)$  dB on all frequencies between 2328 and 2337MHz.

By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2300 and 2305MHz,  $55 + 10 \log(P)$  dB on all frequencies between 2296 and 2300MHz,  $61 + 10 \log(P)$  dB on all frequencies between 2292 and 2296MHz,  $67 + 10 \log(P)$  dB on all frequencies between 2288 and 2292MHz, and  $70 + 10 \log(P)$  dB below 2288MHz.

By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2360 and 2365MHz, and not less than  $70 + 10 \log(P)$  dB above 2365MHz.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;

On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;

On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $76 + 10 \log (P)$  dB in a 6.25 kHz band segment, for base and fixed stations;

On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations;

Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

#### FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43+10*\log(P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

#### FCC § 27.53(h) (1)

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 (BRS and EBS stations), the attenuation factor shall be not less than:

$40+10\log P$  dB (–10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.

$43+10\log P$  dB (–13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,

$55+10\log P$  dB (–25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less that  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. 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 § 90.691

Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \text{ Log}_{10}(f/6.1)$  decibels or  $50 + 10 \text{ Log}_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \text{ Log}_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

#### FCC § 90.543

(e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than  $76 + 10 \log (P)$  dB in a 6.25 kHz band segment, for base and fixed stations.

On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations.

On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least  $43 + 10 \log (P)$  dB.

Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

### 6.5.3. Test Procedure

1. Connect the equipment as shown in the above diagram.
  2. Set the spectrum analyzer to measure peak hold with the required settings.
  3. Set the signal generator to a known output power and record the path loss in dB (LOSS) for frequencies up to the tenth harmonic of the EUT's carrier frequency.  
 $LOSS = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$ .
  4. Replace the signal generator with the EUT.
  5. Adjust the settings of the Universal Radio Communication Tester to set the EUT to its maximum power at the required channel.
  6. Set the spectrum analyzer to measure peak hold with the required settings. Offset the spectrum analyzer reference level by the path loss measured above.
  7. Measure and record all spurious emissions up to the tenth harmonic of the carrier frequency.
  8. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.
  9. If necessary steps 6 and 7 may be performed with the spectrum analyzer set to average detector.
- (Note: Step 3 above is performed prior to testing and LOSS is recorded by test software. Steps 2, 6, and 7 above are performed with test software.)

### 6.5.4. Test Data

Please refer to Appendix E

## 6.6. Frequency Stability

### 6.6.1. Test Standard

FCC § 2.1055 & 22.355 & 24.235 & 27.54 & 90.213.

### 6.6.2. Test Limit

According to part 22.355, from 821MHz to 896MHz, for mobile device, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances 2.5ppm.

FCC: §24.235 & §27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. Test Setup

#### Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size,

(1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

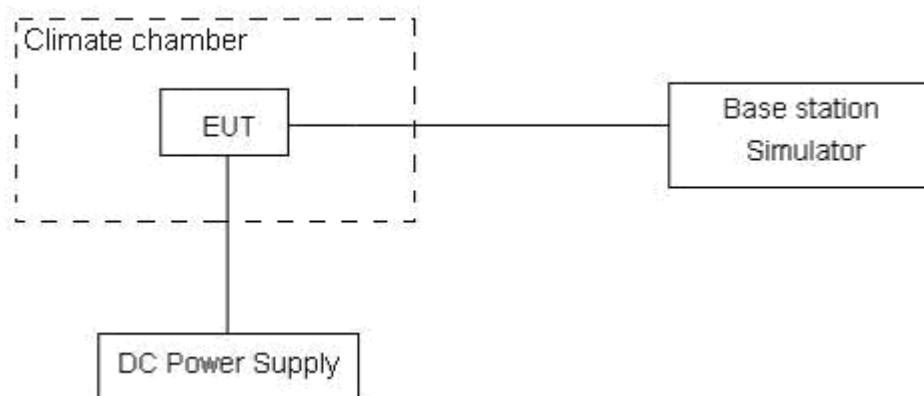
(3) Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

#### Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

(2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery-operating end point which shall be specified by the manufacturer.



### 6.6.3. Test Data

Please refer to Appendix F

## 6.7. Radiated Spurious Emissions

### 6.7.1. Test Standard

FCC § 2.1053 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(m) & 90.691 & 90.543.

### 6.7.2. Test Limit

The radio frequency voltage or power generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in FCC 2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

(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. For all power levels +30dBm to 0dBm, this becomes a constant specification of -13dBm.

#### §22.917:

The rules in this section govern the spectral characteristics of emissions in the Cellular Radio telephone Service.

(b) Measurement procedure. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz of 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

#### §24.238:

The rules in this section govern the spectral characteristics of emissions in the Broadband Personal Communications Service.

(b) Measurement procedure. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz of 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions



are attenuated at least 26 dB below the transmitter power.

§27.53:

(c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than  $76 + 10 \log(P)$  dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than  $65 + 10 \log(P)$  dB in a 6.25 kHz band segment, for mobile and portable stations;

(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log(P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(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.

(m)(4) For mobile digital stations, the attenuation factor shall be not less than  $43 + 10 \log(P)$  dB at the channel edge and  $55 + 10 \log(P)$  dB at 5.5 megahertz from the channel edges. (Channel edges are defined under §27.5 (i) Frequency assignment for the BRS/EBS band)

(m)(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz of 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

#### FCC § 90.691

Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \text{ Log}_{10}(f/6.1)$  decibels or  $50 + 10 \text{ Log}_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \text{ Log}_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

#### FCC § 90.543

(e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than  $76 + 10 \log (P)$  dB in a 6.25 kHz band segment, for base and fixed stations.

On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations.

On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least  $43 + 10 \log (P)$  dB.

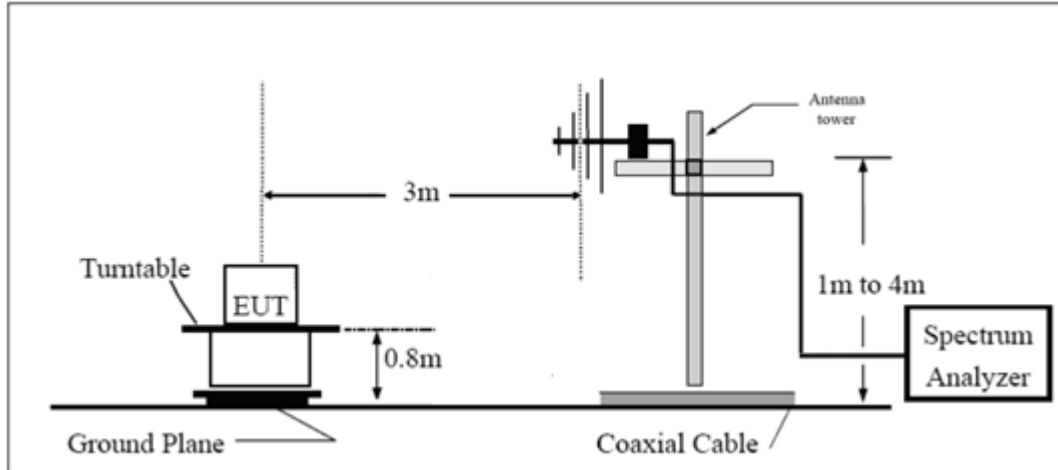
Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

### 6.7.3. Test Procedure

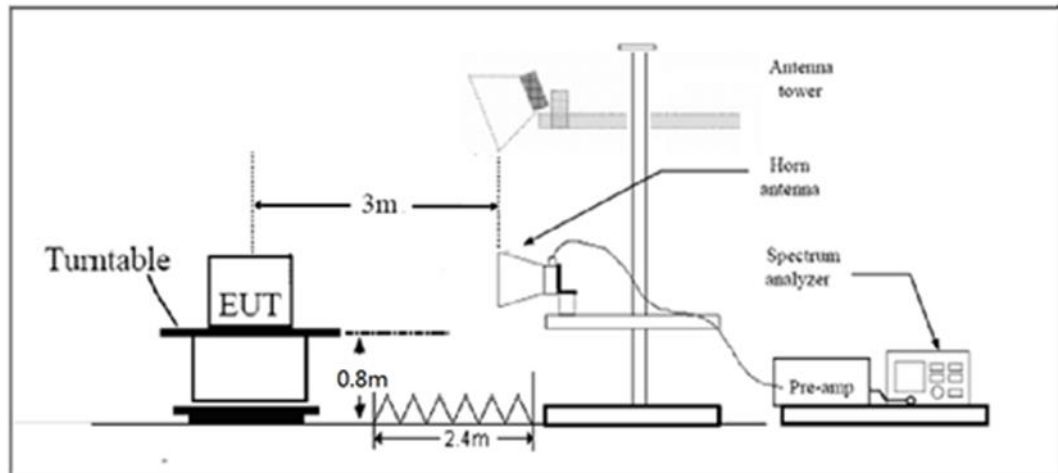
1. Connect the equipment as shown in the above diagram with the EUT's antenna in a horizontal orientation.
  2. Adjust the settings of the Wideband Radio Communication Tester (CMW500) to set the EUT to its maximum power at the required channel.
  3. Set the spectrum analyzer to measure peak hold with the required settings.
  4. Place the measurement antenna in a horizontal orientation. Rotate the EUT 360 . Raise the measurement antenna up to 4 meters in 0.5 meters increments and rotate the EUT 360 at each height to maximize all emissions. Measure and record all spurious emissions (LVL) up to the tenth harmonic of the carrier frequency.
  5. Replace the EUT with a horizontally polarized half wave dipole or known gain antenna. The center of the antenna should be at the same location as the center of the EUT's antenna.
  6. Connect the antenna to a signal generator with known output power and record the path loss in dB (LOSS).  $LOSS = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$ .
  7. Determine the level of spurious emissions using the following equation:  
 $\text{Spurious (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$
  8. Repeat steps 4, 5 and 6 with all antennas vertically polarized.
  9. Determine the level of spurious emissions using the following equation:  
 $\text{Spurious (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$
  10. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.
- (Note: Steps 5 and 6 above are performed prior to testing and LOSS is recorded by test software. Steps 3, 4 and 7 above are performed with test software.)  
Spectrum analyzer settings: RBW=VBW=1MHz

### 6.7.4. Test Setup

For Radiated test from 30MHz to 1GHz



For Radiated test above 1GHz



### 6.7.5. Test Data

Please refer to Appendix G