

FCC TEST REPORT

Client Name : MOBILE INTOUCH CORP.

Address : 3311 S RAINBOW BLVD STE105,LAS VEGAS,NV 89146
USA

Product Name : 4G ROUTER

Date : Jan. 21, 2021

Shenzhen Anbotech Compliance Laboratory Limited



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TEST REPORT

Applicant : MOBILE INTOUCH CORP.
Manufacturer : SHENZHEN MELON ELECTRONICS CO., LTD.
Product Name : 4G ROUTER
Model No. : Beam, Eagle, Plex, Flex
Trade Mark : Mobile Intouch/ MITWireless
Rating(s) : Input: DC 12V/1.5A with DC 7.4V, 4800 mAh Battery inside (via adapter input:
AC 100-240V/0.6A; Output: DC 12V 1.5A)

Test Standard(s) : FCC PART 2, FCC Part 22(H), FCC Part 24(E), FCC Part 27

Test Method(s) : ANSI C63.26-2015, KDB971168 D01 v03r01

The device described above is tested by Shenzhen Anbotech Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotech Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 22/FCC Part 24/FCC Part 27 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotech Compliance Laboratory Limited.

Date of Receipt

Oct. 28, 2020

Date of Test :

Oct. 28, 2020~Jan. 07, 2021

Prepared by :

Yilia Zhong

(Engineer / Yilia Zhong)

Reviewer :

Bibo Zhang

(Supervisor / Bibo Zhang)

Approved & Authorized Signer :

Kingkong Jin

(Manager / Kingkong Jin)

1. General Information

1.1. Client Information

Applicant	:	MOBILE INTOUCH CORP.
Address	:	3311 S RAINBOW BLVD STE105,LAS VEGAS,NV 89146 USA
Manufacturer	:	SHENZHEN MELON ELECTRONICS CO., LTD.
Address	:	No.5 factory building, No.89 Hengping Road, Baoan community, Yuanshan street, Longgang District, Shenzhen, Guangdong,China
Factory	:	SHENZHEN MELON ELECTRONICS CO., LTD.
Address	:	No.5 factory building, No.89 Hengping Road, Baoan community, Yuanshan street, Longgang District, Shenzhen, Guangdong,China

1.2. Description of Device (EUT)

Product Name	:	4G ROUTER
Model No.	:	Beam, Eagle, Plex, Flex (Note: All samples are the same except the model number and appearance color, so we prepare "Eagle" for test only.)
Trade Mark	:	Mobile Intouch/ MITWireless
Test Power Supply	:	DC 7.4V Battery inside
Test Sample NO.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Product Description	Operation Frequency:	WiFi 2.4G: 802.11b/ g/ n(HT20): 2412-2462MHz 802.11n(HT40): 2422-2452MHz WiFi 5.1G: 5180MHz~5240MHz WiFi 5.8G: 5745MHz~5825MHz LTE-FDD Band 2 TX: 1850.7 ~ 1909.3 MHz; RX: 1930.7 ~ 1989.3 MHz LTE-FDD Band 4 TX:1710.7 ~ 1754.3 MHz; RX: 2110.7 ~ 2154.3 MHz
	Number of Channel:	WiFi 2.4G: 11 Channels for 802.11b/ g/ n(HT20) 7 Channels for 802.11n(HT40) WiFi 5.1G: 4 Channels for 802.11a 4 Channels for 802.11n(HT20) 4 Channels for 802.11ac(HT20) 2 Channels for 802.11n(HT40) 2 Channels for 802.11ac(HT40)

		1 Channels for 802.11ac(HT80) WiFi 5.8G: 5 Channels for 802.11a 5 Channels for 802.11n(HT20) 5 Channels for 802.11ac(HT20) 2 Channels for 802.11n(HT40) 2 Channels for 802.11ac(HT40) 1 Channels for 802.11ac(HT80)
	Modulation Type:	WiFi 2.4G: 802.11b CCK; 802.11g/n OFDM WiFi 5.1G: OFDM with BPSK/QPSK/16QAM/64QAM/256QAM WiFi 5.8G: OFDM with BPSK/QPSK/16QAM/64QAM/256QAM LTE: QPSK, 16QAM
	Antenna Type:	PIFA Antenna
	Antenna Gain(Peak):	WiFi 2.4G ANT A/ ANT B: 5dBi WiFi 5.1G ANT A/ ANT B: 2dBi WiFi 5.8G ANT A/ ANT B: 2dBi LTE Band 2/4: 3dBi
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) This report is for LTE module.		

1.3. Auxiliary Equipment Used During Test

N/A	
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1.4. Description of Test Modes

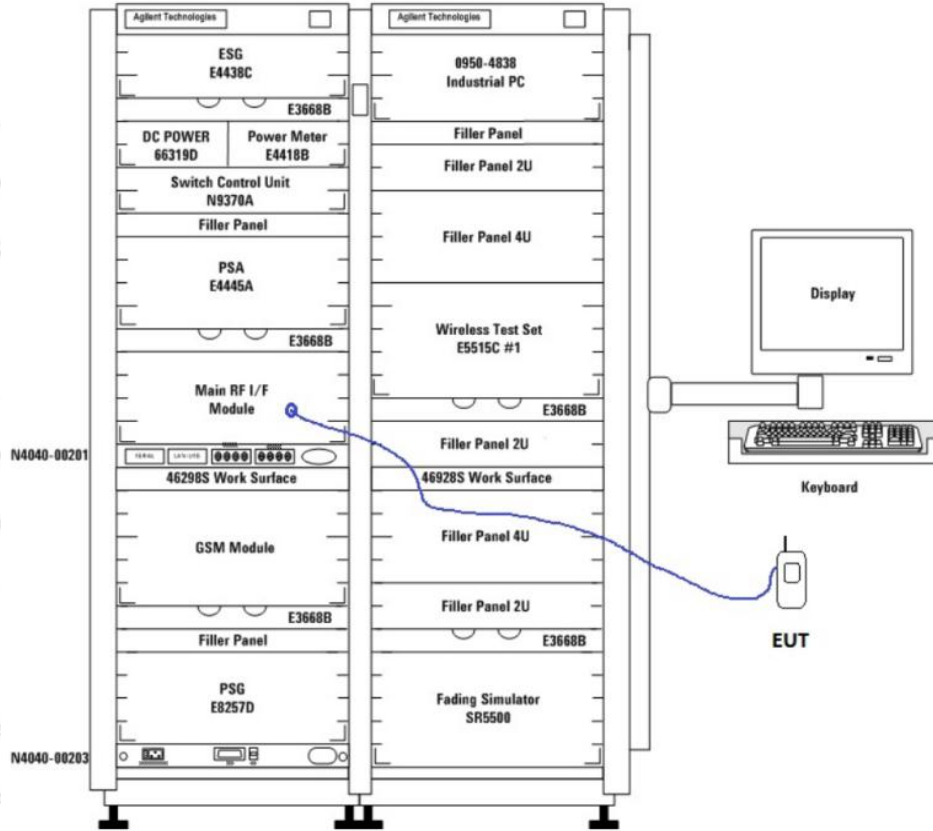
The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
Emissions Testing	The EUT was communicating with base station.
Others Testing	The EUT was communicating with base station.

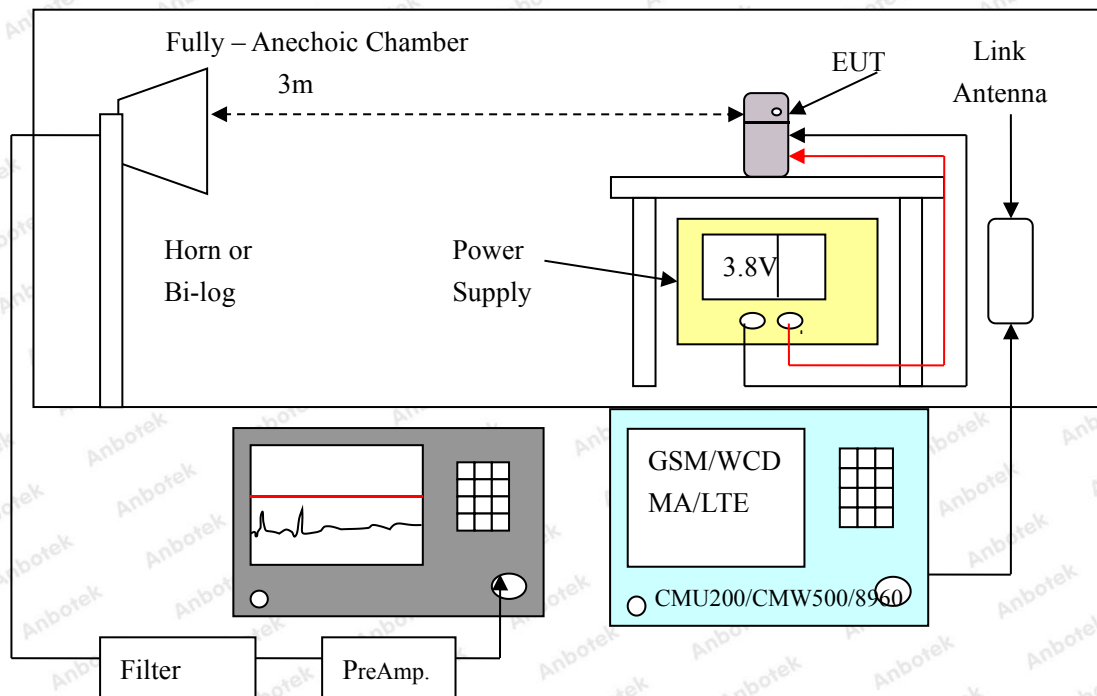
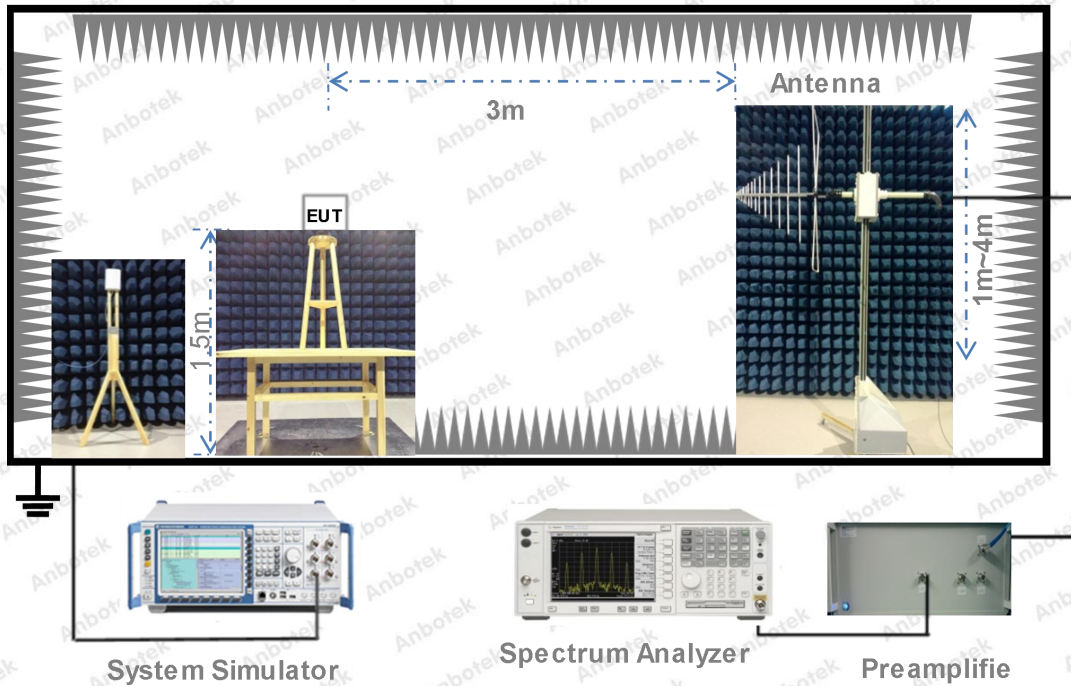


1.5. Description Of Test Setup

1.5.1 Conducted Test Setup



1.5.2 Radiated Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Oct. 26 2020	1 Year
2.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Oct. 26 2020	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Oct. 26 2020	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Oct. 26 2020	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 26 2020	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Oct. 26 2020	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
8.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26 2020	1 Year
9.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 26 2020	1 Year
10.	DC Power Supply	LW	TPR-6420D	374470	Oct. 26 2020	1 Year
11.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 26 2020	1 Year
12.	Universal Radio Communication Tester	Rohde & Schwarz	CMU 200	117888	Oct. 26 2020	1 Year
13.	Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	104209	Oct. 26 2020	1 Year
14.	High-Pass Filter	CDKMV	ZHPF-BM110 0 -4000-0730	B2015094550	Oct. 26 2020	1 Year
15.	High-Pass Filter	CDKMV	ZHPF-M3.5 -18G-3834	1307006523	Oct. 26 2020	1 Year
16.	4 Ch. Simultaneous Sampling 14 Bits 2 MS/s	Agilent	U2531A	TW54063507	Oct. 26 2020	1 Year
17.	4 Ch. Simultaneous Sampling 14 Bits 2 MS/s	Agilent	U2531A	TW54063513	Oct. 26 2020	1 Year

1.7. Measurement Uncertainty

Maximum measurement uncertainty

Parameter	Uncertainty
RF output power, conducted	±1,5 dB
Power Spectral Density, conducted	±3 dB
Unwanted Emissions, conducted	±3 dB
All emissions, radiated	±6 dB
Temperature	±1 °C
Humidity	±5 %
DC and low frequency voltages	±3 %
Time	±5 %
Confidence interval: 95%. Confidence factor:k=2	

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 30, 2020.

ISED-Registration No.: 8058A-1

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, September 30, 2020.

Test Location

All Emissions tests were performed at
Shenzhen Anbotech Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



2. Summary of Test

2.1. Summary of test result

FCC Rules	Description of Test	Result
§2.1046; § 22.913(a); § 24.232(c); § 27.50(c.10); § 27.50(d.4)	RF Output Power	Compliance
§ 24.232 (d); § 27.50(d)	Peak-Average Ratio	Compliance
§ 2.1047	Modulation Characteristics	N/A
§ 2.1049; § 22.905; § 22.917; § 24.238; § 27.53(a.5)	99% & -26 dB Occupied Bandwidth	Compliance
§ 2.1051; § 22.917(a); § 24.238(a); § 27.53(h)	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053; § 22.917(a); § 24.238(a); § 27.53(h)	Field Strength of Spurious Radiation	Compliance
§ 22.917(a); § 24.238(a); § 27.53(h)	Out of band emission, Band Edge	Compliance
§ 2.1055; § 22.355; § 24.235; § 27.5(h); § 27.54	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different

2.2. Test mode

During all testing, EUT is in link mode with base station emulator at maximum power level in each test mode and channel as below:

Temperature range	21-25℃
Humidity range	40-75%
Pressure range	86-106kPa

Support Band	Test Mode BW(MHz)	Channel Frequency	Channel Number
LTE Band 2	1.4	1850.7 MHz	18607
		1880.0 MHz	18900
		1909.3 MHz	19193
	3	1851.5 MHz	18615
		1880.0 MHz	18900
		1908.5 MHz	19185
	5	1852.5 MHz	18625
		1880.0 MHz	18900
		1907.5 MHz	19175
	10	1855.0 MHz	18650
		1880.0 MHz	18900
		1905.0 MHz	19150
	15	1857.5 MHz	18675
		1880.0 MHz	18900
		1902.5 MHz	19125
	20	1860.0 MHz	18700
		1880.0 MHz	18900
		1900.0 MHz	19100
LTE Band 4	1.4	1710.7 MHz	19957
		1732.5 MHz	20175
		1754.3 MHz	20393
	3	1711.5 MHz	19965
		1732.5 MHz	20175
		1753.5 MHz	20385
	5	1712.5 MHz	19975
		1732.5 MHz	20175
		1752.5 MHz	20375
	10	1715.0 MHz	20000
		1732.5 MHz	20175
		1750.0 MHz	20350
	15	1717.5 MHz	20025
		1732.5 MHz	20175
		1747.5 MHz	20325
	20	1720.0 MHz	20050
		1732.5 MHz	20175
		1745.0 MHz	20300
	5	2502.5 MHz	20775
		2535 MHz	21100
		2567.5 MHz	21425
	10	2505 MHz	20800
		2535 MHz	21100
		2565 MHz	21400
		2507.5 MHz	20825

LTE Band 7	15	2535 MHz	21100
		2562.5 MHz	21375
	20	2510 MHz	20850
		2535 MHz	21100
		2560 MHz	21350

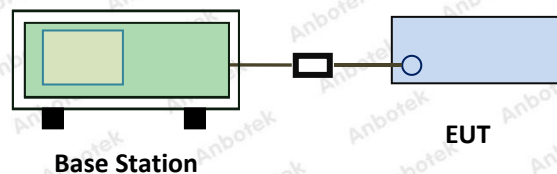


3. RF Output Power Test

3.1. Test Standard and Limit

Spec	Item	Requirement
§22.913 (a)	a)	ERP:38.5dBm
§24.232 (c)	b)	EIRP:33dBm
§27.50 (c)	c)	EIRP:30dBm

3.2. Test Setup



3.3. Test Procedure

For Conducted Power:

The transmitter output port was connected to base station.

Set EUT at maximum power through base station.

Select lowest, middle, and highest channels for each band and different test mode.

For ERP/EIRP:

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = $10 \log (\text{TX power in Watts}/0.001)$ – the absolute level

Spurious attenuation limit in dB = $43 + 10 \log_{10} (\text{power out in Watts})$.

3.4. Test Data

Please to see the following pages

Conducted Power:

LTE Mode:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	23.93	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	24.06	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.97	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	24.14	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	24.09	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	24.06	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	23.02	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.59	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.58	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.64	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	23.73	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	23.77	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	23.74	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.75	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.82	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.82	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	23.78	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	23.94	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	23.85	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	23.88	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.83	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	23.66	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	23.24	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	23.63	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	22.61	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	22.61	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	22.65	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	22.16	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.99	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.97	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	23.02	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	22.44	PASS



Band2	1.4MHz	16QAM	18900	3RB#1	22.44	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	22.50	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.81	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	23.31	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	23.29	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	23.28	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	22.68	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	22.67	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	22.67	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	22.16	PASS
Band2	3MHz	QPSK	18615	1RB#8	24.15	PASS
Band2	3MHz	QPSK	18615	1RB#14	24.20	PASS
Band2	3MHz	QPSK	18615	1RB#0	24.17	PASS
Band2	3MHz	QPSK	18615	8RB#0	23.10	PASS
Band2	3MHz	QPSK	18615	8RB#4	23.12	PASS
Band2	3MHz	QPSK	18615	8RB#7	23.16	PASS
Band2	3MHz	QPSK	18615	15RB#0	23.16	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.71	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.66	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.66	PASS
Band2	3MHz	QPSK	18900	8RB#7	22.74	PASS
Band2	3MHz	QPSK	18900	8RB#4	22.80	PASS
Band2	3MHz	QPSK	18900	8RB#0	22.78	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.77	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.80	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.87	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.75	PASS
Band2	3MHz	QPSK	19185	8RB#0	22.92	PASS
Band2	3MHz	QPSK	19185	8RB#7	22.90	PASS
Band2	3MHz	QPSK	19185	8RB#4	22.81	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.90	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.99	PASS
Band2	3MHz	16QAM	18615	1RB#14	23.03	PASS
Band2	3MHz	16QAM	18615	1RB#0	23.06	PASS
Band2	3MHz	16QAM	18615	8RB#4	22.35	PASS
Band2	3MHz	16QAM	18615	8RB#0	22.34	PASS



Band2	3MHz	16QAM	18615	8RB#7	22.39	PASS
Band2	3MHz	16QAM	18615	15RB#0	22.10	PASS
Band2	3MHz	16QAM	18900	1RB#8	23.18	PASS
Band2	3MHz	16QAM	18900	1RB#0	23.09	PASS
Band2	3MHz	16QAM	18900	1RB#14	23.15	PASS
Band2	3MHz	16QAM	18900	8RB#7	21.71	PASS
Band2	3MHz	16QAM	18900	8RB#4	21.79	PASS
Band2	3MHz	16QAM	18900	8RB#0	21.75	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.80	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.90	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.82	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.83	PASS
Band2	3MHz	16QAM	19185	8RB#7	22.13	PASS
Band2	3MHz	16QAM	19185	8RB#4	22.16	PASS
Band2	3MHz	16QAM	19185	8RB#0	22.14	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.94	PASS
Band2	5MHz	QPSK	18625	1RB#0	24.26	PASS
Band2	5MHz	QPSK	18625	1RB#12	24.21	PASS
Band2	5MHz	QPSK	18625	1RB#24	24.28	PASS
Band2	5MHz	QPSK	18625	12RB#13	23.28	PASS
Band2	5MHz	QPSK	18625	12RB#0	23.27	PASS
Band2	5MHz	QPSK	18625	12RB#6	23.20	PASS
Band2	5MHz	QPSK	18625	25RB#0	23.19	PASS
Band2	5MHz	QPSK	18900	1RB#24	24.29	PASS
Band2	5MHz	QPSK	18900	1RB#12	24.15	PASS
Band2	5MHz	QPSK	18900	1RB#0	24.18	PASS
Band2	5MHz	QPSK	18900	12RB#13	23.25	PASS
Band2	5MHz	QPSK	18900	12RB#6	23.21	PASS
Band2	5MHz	QPSK	18900	12RB#0	23.21	PASS
Band2	5MHz	QPSK	18900	25RB#0	23.19	PASS
Band2	5MHz	QPSK	19175	1RB#0	24.53	PASS
Band2	5MHz	QPSK	19175	1RB#24	25.39	PASS
Band2	5MHz	QPSK	19175	1RB#12	25.79	FAIL
Band2	5MHz	QPSK	19175	12RB#13	23.62	PASS
Band2	5MHz	QPSK	19175	12RB#6	23.61	PASS
Band2	5MHz	QPSK	19175	12RB#0	23.61	PASS



Band2	5MHz	QPSK	19175	25RB#0	23.65	PASS
Band2	5MHz	16QAM	18625	1RB#0	23.35	PASS
Band2	5MHz	16QAM	18625	1RB#24	22.78	PASS
Band2	5MHz	16QAM	18625	1RB#12	23.23	PASS
Band2	5MHz	16QAM	18625	12RB#0	22.27	PASS
Band2	5MHz	16QAM	18625	12RB#6	22.20	PASS
Band2	5MHz	16QAM	18625	12RB#13	22.09	PASS
Band2	5MHz	16QAM	18625	25RB#0	22.23	PASS
Band2	5MHz	16QAM	18900	1RB#24	23.41	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.97	PASS
Band2	5MHz	16QAM	18900	1RB#0	23.23	PASS
Band2	5MHz	16QAM	18900	12RB#13	21.95	PASS
Band2	5MHz	16QAM	18900	12RB#6	22.21	PASS
Band2	5MHz	16QAM	18900	12RB#0	22.03	PASS
Band2	5MHz	16QAM	18900	25RB#0	22.34	PASS
Band2	5MHz	16QAM	19175	1RB#0	23.63	PASS
Band2	5MHz	16QAM	19175	1RB#12	24.70	PASS
Band2	5MHz	16QAM	19175	1RB#24	24.04	PASS
Band2	5MHz	16QAM	19175	12RB#6	22.66	PASS
Band2	5MHz	16QAM	19175	12RB#13	22.49	PASS
Band2	5MHz	16QAM	19175	12RB#0	22.68	PASS
Band2	5MHz	16QAM	19175	25RB#0	22.84	PASS
Band2	10MHz	QPSK	18650	1RB#49	24.09	PASS
Band2	10MHz	QPSK	18650	1RB#24	24.13	PASS
Band2	10MHz	QPSK	18650	1RB#0	24.11	PASS
Band2	10MHz	QPSK	18650	25RB#0	23.08	PASS
Band2	10MHz	QPSK	18650	25RB#12	23.06	PASS
Band2	10MHz	QPSK	18650	25RB#25	23.12	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.98	PASS
Band2	10MHz	QPSK	18900	1RB#49	24.49	PASS
Band2	10MHz	QPSK	18900	1RB#0	24.33	PASS
Band2	10MHz	QPSK	18900	1RB#24	24.40	PASS
Band2	10MHz	QPSK	18900	25RB#0	23.22	PASS
Band2	10MHz	QPSK	18900	25RB#25	23.38	PASS
Band2	10MHz	QPSK	18900	25RB#12	23.25	PASS
Band2	10MHz	QPSK	18900	50RB#0	23.09	PASS



Band2	10MHz	QPSK	19150	1RB#24	24.64	PASS
Band2	10MHz	QPSK	19150	1RB#49	24.11	PASS
Band2	10MHz	QPSK	19150	1RB#0	24.52	PASS
Band2	10MHz	QPSK	19150	25RB#25	23.64	PASS
Band2	10MHz	QPSK	19150	25RB#12	23.73	PASS
Band2	10MHz	QPSK	19150	25RB#0	23.77	PASS
Band2	10MHz	QPSK	19150	50RB#0	23.62	PASS
Band2	10MHz	16QAM	18650	1RB#0	23.23	PASS
Band2	10MHz	16QAM	18650	1RB#24	23.36	PASS
Band2	10MHz	16QAM	18650	1RB#49	23.16	PASS
Band2	10MHz	16QAM	18650	25RB#12	22.09	PASS
Band2	10MHz	16QAM	18650	25RB#0	21.91	PASS
Band2	10MHz	16QAM	18650	25RB#25	22.08	PASS
Band2	10MHz	16QAM	18650	50RB#0	22.03	PASS
Band2	10MHz	16QAM	18900	1RB#49	23.51	PASS
Band2	10MHz	16QAM	18900	1RB#0	23.37	PASS
Band2	10MHz	16QAM	18900	1RB#24	23.08	PASS
Band2	10MHz	16QAM	18900	25RB#25	22.57	PASS
Band2	10MHz	16QAM	18900	25RB#12	22.33	PASS
Band2	10MHz	16QAM	18900	25RB#0	22.32	PASS
Band2	10MHz	16QAM	18900	50RB#0	22.49	PASS
Band2	10MHz	16QAM	19150	1RB#0	23.79	PASS
Band2	10MHz	16QAM	19150	1RB#49	23.25	PASS
Band2	10MHz	16QAM	19150	1RB#24	23.63	PASS
Band2	10MHz	16QAM	19150	25RB#12	22.64	PASS
Band2	10MHz	16QAM	19150	25RB#0	22.78	PASS
Band2	10MHz	16QAM	19150	25RB#25	22.64	PASS
Band2	10MHz	16QAM	19150	50RB#0	22.72	PASS
Band2	15MHz	QPSK	18675	1RB#38	24.01	PASS
Band2	15MHz	QPSK	18675	1RB#0	24.38	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.60	PASS
Band2	15MHz	QPSK	18675	38RB#18	23.19	PASS
Band2	15MHz	QPSK	18675	38RB#0	23.13	PASS
Band2	15MHz	QPSK	18675	38RB#37	22.79	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.98	PASS
Band2	15MHz	QPSK	18900	1RB#74	24.08	PASS

Band2	15MHz	QPSK	18900	1RB#38	24.13	PASS
Band2	15MHz	QPSK	18900	1RB#0	24.04	PASS
Band2	15MHz	QPSK	18900	38RB#18	23.18	PASS
Band2	15MHz	QPSK	18900	38RB#37	23.27	PASS
Band2	15MHz	QPSK	18900	38RB#0	22.57	PASS
Band2	15MHz	QPSK	18900	75RB#0	23.39	PASS
Band2	15MHz	QPSK	19125	1RB#38	24.47	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.96	PASS
Band2	15MHz	QPSK	19125	1RB#0	24.27	PASS
Band2	15MHz	QPSK	19125	38RB#37	23.18	PASS
Band2	15MHz	QPSK	19125	38RB#18	23.61	PASS
Band2	15MHz	QPSK	19125	38RB#0	23.53	PASS
Band2	15MHz	QPSK	19125	75RB#0	23.73	PASS
Band2	15MHz	16QAM	18675	1RB#74	23.54	PASS
Band2	15MHz	16QAM	18675	1RB#38	23.16	PASS
Band2	15MHz	16QAM	18675	1RB#0	23.15	PASS
Band2	15MHz	16QAM	18675	38RB#18	23.18	PASS
Band2	15MHz	16QAM	18675	38RB#0	23.09	PASS
Band2	15MHz	16QAM	18675	38RB#37	22.98	PASS
Band2	15MHz	16QAM	18675	75RB#0	22.02	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.98	PASS
Band2	15MHz	16QAM	18900	1RB#38	23.28	PASS
Band2	15MHz	16QAM	18900	1RB#74	23.17	PASS
Band2	15MHz	16QAM	18900	38RB#0	22.53	PASS
Band2	15MHz	16QAM	18900	38RB#37	23.17	PASS
Band2	15MHz	16QAM	18900	38RB#18	23.32	PASS
Band2	15MHz	16QAM	18900	75RB#0	22.50	PASS
Band2	15MHz	16QAM	19125	1RB#74	23.17	PASS
Band2	15MHz	16QAM	19125	1RB#38	23.70	PASS
Band2	15MHz	16QAM	19125	1RB#0	23.52	PASS
Band2	15MHz	16QAM	19125	38RB#0	23.24	PASS
Band2	15MHz	16QAM	19125	38RB#18	23.62	PASS
Band2	15MHz	16QAM	19125	38RB#37	23.11	PASS
Band2	15MHz	16QAM	19125	75RB#0	22.69	PASS
Band2	20MHz	QPSK	18700	1RB#0	24.15	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.75	PASS

Band2	20MHz	QPSK	18700	1RB#49	23.85	PASS
Band2	20MHz	QPSK	18700	50RB#0	23.16	PASS
Band2	20MHz	QPSK	18700	50RB#50	22.92	PASS
Band2	20MHz	QPSK	18700	50RB#25	23.16	PASS
Band2	20MHz	QPSK	18700	100RB#0	22.96	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.82	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.99	PASS
Band2	20MHz	QPSK	18900	1RB#99	23.74	PASS
Band2	20MHz	QPSK	18900	50RB#50	22.80	PASS
Band2	20MHz	QPSK	18900	50RB#25	22.77	PASS
Band2	20MHz	QPSK	18900	50RB#0	22.75	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.81	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.95	PASS
Band2	20MHz	QPSK	19100	1RB#49	24.03	PASS
Band2	20MHz	QPSK	19100	1RB#99	24.15	PASS
Band2	20MHz	QPSK	19100	50RB#0	22.82	PASS
Band2	20MHz	QPSK	19100	50RB#25	22.84	PASS
Band2	20MHz	QPSK	19100	50RB#50	22.92	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.92	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.66	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.74	PASS
Band2	20MHz	16QAM	18700	1RB#0	22.82	PASS
Band2	20MHz	16QAM	18700	50RB#0	22.27	PASS
Band2	20MHz	16QAM	18700	50RB#50	22.03	PASS
Band2	20MHz	16QAM	18700	50RB#25	22.23	PASS
Band2	20MHz	16QAM	18700	100RB#0	22.03	PASS
Band2	20MHz	16QAM	18900	1RB#99	23.56	PASS
Band2	20MHz	16QAM	18900	1RB#49	23.68	PASS
Band2	20MHz	16QAM	18900	1RB#0	23.39	PASS
Band2	20MHz	16QAM	18900	50RB#50	21.85	PASS
Band2	20MHz	16QAM	18900	50RB#25	22.00	PASS
Band2	20MHz	16QAM	18900	50RB#0	22.00	PASS
Band2	20MHz	16QAM	18900	100RB#0	21.85	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.69	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.74	PASS
Band2	20MHz	16QAM	19100	1RB#99	22.89	PASS

Band2	20MHz	16QAM	19100	50RB#0	21.88	PASS
Band2	20MHz	16QAM	19100	50RB#25	21.89	PASS
Band2	20MHz	16QAM	19100	50RB#50	22.04	PASS
Band2	20MHz	16QAM	19100	100RB#0	21.95	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	23.55	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.55	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.58	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.61	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.62	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.65	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.68	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.73	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.80	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.82	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.84	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.88	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.88	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.94	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.77	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.75	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.80	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.68	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.79	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.69	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.70	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.75	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.74	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.75	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.19	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.19	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.23	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.70	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	23.46	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	23.45	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.40	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.67	PASS

Band4	1.4MHz	16QAM	20175	3RB#1	22.64	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.64	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	22.18	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.38	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.38	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.38	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	22.37	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.49	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.47	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.87	PASS
Band4	3MHz	QPSK	19965	1RB#0	24.86	PASS
Band4	3MHz	QPSK	19965	1RB#8	24.58	PASS
Band4	3MHz	QPSK	19965	1RB#14	24.76	PASS
Band4	3MHz	QPSK	19965	8RB#0	24.03	PASS
Band4	3MHz	QPSK	19965	8RB#7	23.78	PASS
Band4	3MHz	QPSK	19965	8RB#4	23.79	PASS
Band4	3MHz	QPSK	19965	15RB#0	24.05	PASS
Band4	3MHz	QPSK	20175	1RB#8	24.65	PASS
Band4	3MHz	QPSK	20175	1RB#0	24.91	PASS
Band4	3MHz	QPSK	20175	1RB#14	24.79	PASS
Band4	3MHz	QPSK	20175	8RB#4	24.03	PASS
Band4	3MHz	QPSK	20175	8RB#7	23.93	PASS
Band4	3MHz	QPSK	20175	8RB#0	24.05	PASS
Band4	3MHz	QPSK	20175	15RB#0	24.07	PASS
Band4	3MHz	QPSK	20385	1RB#0	24.75	PASS
Band4	3MHz	QPSK	20385	1RB#14	24.68	PASS
Band4	3MHz	QPSK	20385	1RB#8	24.31	PASS
Band4	3MHz	QPSK	20385	8RB#0	23.40	PASS
Band4	3MHz	QPSK	20385	8RB#7	23.47	PASS
Band4	3MHz	QPSK	20385	8RB#4	23.38	PASS
Band4	3MHz	QPSK	20385	15RB#0	23.41	PASS
Band4	3MHz	16QAM	19965	1RB#14	23.89	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.87	PASS
Band4	3MHz	16QAM	19965	1RB#0	23.87	PASS
Band4	3MHz	16QAM	19965	8RB#4	23.06	PASS
Band4	3MHz	16QAM	19965	8RB#0	22.66	PASS



Band4	3MHz	16QAM	19965	8RB#7	23.09	PASS
Band4	3MHz	16QAM	19965	15RB#0	23.16	PASS
Band4	3MHz	16QAM	20175	1RB#14	23.99	PASS
Band4	3MHz	16QAM	20175	1RB#8	23.69	PASS
Band4	3MHz	16QAM	20175	1RB#0	23.98	PASS
Band4	3MHz	16QAM	20175	8RB#7	23.28	PASS
Band4	3MHz	16QAM	20175	8RB#0	23.36	PASS
Band4	3MHz	16QAM	20175	8RB#4	23.18	PASS
Band4	3MHz	16QAM	20175	15RB#0	23.12	PASS
Band4	3MHz	16QAM	20385	1RB#0	23.57	PASS
Band4	3MHz	16QAM	20385	1RB#14	23.34	PASS
Band4	3MHz	16QAM	20385	1RB#8	23.05	PASS
Band4	3MHz	16QAM	20385	8RB#0	22.83	PASS
Band4	3MHz	16QAM	20385	8RB#4	22.69	PASS
Band4	3MHz	16QAM	20385	8RB#7	22.36	PASS
Band4	3MHz	16QAM	20385	15RB#0	22.23	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.05	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.94	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.90	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.98	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.86	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.86	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.15	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.16	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.14	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.09	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.03	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.04	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.10	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.89	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.92	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.88	PASS
Band4	5MHz	QPSK	20375	12RB#13	21.88	PASS
Band4	5MHz	QPSK	20375	12RB#6	21.89	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.01	PASS



Band4	5MHz	QPSK	20375	25RB#0	22.01	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.64	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.62	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.74	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.01	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.91	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.91	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.88	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.39	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.41	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.36	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.01	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.15	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.15	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.13	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.12	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.13	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.10	PASS
Band4	5MHz	16QAM	20375	12RB#13	20.95	PASS
Band4	5MHz	16QAM	20375	12RB#0	20.93	PASS
Band4	5MHz	16QAM	20375	12RB#6	20.93	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.78	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.05	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.92	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.86	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.99	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.94	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.95	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.91	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.95	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.99	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.99	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.96	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.08	PASS



Band4	10MHz	QPSK	20350	1RB#49	23.01	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.02	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.98	PASS
Band4	10MHz	QPSK	20350	25RB#0	21.92	PASS
Band4	10MHz	QPSK	20350	25RB#12	21.98	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.02	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.91	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.22	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.28	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.37	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.11	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.13	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.11	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.98	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.82	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.74	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.71	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.07	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.07	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.03	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.07	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.77	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.73	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.68	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.04	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.04	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.03	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.97	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.03	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.20	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.93	PASS
Band4	15MHz	QPSK	20025	38RB#37	22.26	PASS
Band4	15MHz	QPSK	20025	38RB#0	21.97	PASS
Band4	15MHz	QPSK	20025	38RB#18	22.07	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.94	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.94	PASS



Band4	15MHz	QPSK	20175	1RB#38	22.98	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.99	PASS
Band4	15MHz	QPSK	20175	38RB#0	21.81	PASS
Band4	15MHz	QPSK	20175	38RB#18	21.82	PASS
Band4	15MHz	QPSK	20175	38RB#37	21.72	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.99	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.66	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.70	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.68	PASS
Band4	15MHz	QPSK	20325	38RB#0	21.94	PASS
Band4	15MHz	QPSK	20325	38RB#37	21.88	PASS
Band4	15MHz	QPSK	20325	38RB#18	21.88	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.99	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.07	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.97	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.23	PASS
Band4	15MHz	16QAM	20025	38RB#37	22.22	PASS
Band4	15MHz	16QAM	20025	38RB#18	22.05	PASS
Band4	15MHz	16QAM	20025	38RB#0	21.98	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.12	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.75	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.82	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.79	PASS
Band4	15MHz	16QAM	20175	38RB#37	21.74	PASS
Band4	15MHz	16QAM	20175	38RB#18	21.80	PASS
Band4	15MHz	16QAM	20175	38RB#0	21.77	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.13	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.90	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.89	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.89	PASS
Band4	15MHz	16QAM	20325	38RB#0	21.96	PASS
Band4	15MHz	16QAM	20325	38RB#37	21.88	PASS
Band4	15MHz	16QAM	20325	38RB#18	21.88	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.01	PASS
Band4	20MHz	QPSK	20050	1RB#99	24.03	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.87	PASS



Band4	20MHz	QPSK	20050	1RB#0	23.71	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.84	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.74	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.74	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.76	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.98	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.58	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.96	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.83	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.80	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.84	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.78	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.69	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.86	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.70	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.67	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.64	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.69	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.73	PASS
Band4	20MHz	16QAM	20050	1RB#0	23.06	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.32	PASS
Band4	20MHz	16QAM	20050	1RB#99	23.51	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.79	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.76	PASS
Band4	20MHz	16QAM	20050	50RB#50	22.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.87	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.68	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.67	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.40	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.88	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.95	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.94	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.91	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.98	PASS
Band4	20MHz	16QAM	20300	1RB#0	23.13	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.94	PASS

Band4	20MHz	16QAM	20300	50RB#0	21.83	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.83	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.69	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.85	PASS



Radiated Output power:**EIRP for LTE Band 2 (Part 24E)**

Frequency (MHz)	BW (MHz)	Modulation	RB Size/Offset	Substitute d level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.7	1.4	QPSK	1/0	9.50	V	7.88	0.85	16.53	33
1880	1.4	QPSK	1/0	10.54	V	7.88	0.85	17.57	33
1909.3	1.4	QPSK	1/0	9.77	V	7.88	0.85	16.80	33
1850.7	1.4	QPSK	1/0	10.55	H	7.88	0.85	17.58	33
1880	1.4	QPSK	1/0	9.79	H	7.88	0.85	16.82	33
1909.3	1.4	QPSK	1/0	9.69	H	7.88	0.85	16.72	33
1850.7	1.4	16-QAM	1/0	10.11	V	7.88	0.85	17.14	33
1880	1.4	16-QAM	1/0	10.17	V	7.88	0.85	17.20	33
1909.3	1.4	16-QAM	1/0	9.86	V	7.88	0.85	16.89	33
1850.7	1.4	16-QAM	1/0	9.82	H	7.88	0.85	16.85	33
1880	1.4	16-QAM	1/0	9.91	H	7.88	0.85	16.94	33
1909.3	1.4	16-QAM	1/0	9.62	H	7.88	0.85	16.65	33
1851.5	3	QPSK	1/0	9.95	V	7.88	0.85	16.98	33
1880	3	QPSK	1/0	9.94	V	7.88	0.85	16.97	33
1908.5	3	QPSK	1/0	9.15	V	7.88	0.85	16.18	33
1851.5	3	QPSK	1/0	10.59	H	7.88	0.85	17.62	33
1880	3	QPSK	1/0	10.69	H	7.88	0.85	17.72	33
1908.5	3	QPSK	1/0	9.00	H	7.88	0.85	16.03	33
1851.5	3	16-QAM	1/0	10.35	V	7.88	0.85	17.38	33
1880	3	16-QAM	1/0	10.12	V	7.88	0.85	17.15	33
1908.5	3	16-QAM	1/0	9.09	V	7.88	0.85	16.12	33
1851.5	3	16-QAM	1/0	10.53	H	7.88	0.85	17.56	33
1880	3	16-QAM	1/0	9.15	H	7.88	0.85	16.18	33
1908.5	3	16-QAM	1/0	10.72	H	7.88	0.85	17.75	33
1852.5	5	QPSK	1/24	10.62	V	7.88	0.85	17.65	33
1880	5	QPSK	1/0	9.93	V	7.88	0.85	16.96	33
1907.5	5	QPSK	1/24	10.04	V	7.88	0.85	17.07	33
1852.5	5	QPSK	1/24	10.35	H	7.88	0.85	17.38	33
1880	5	QPSK	1/0	10.40	H	7.88	0.85	17.43	33
1907.5	5	QPSK	1/24	10.70	H	7.88	0.85	17.73	33
1852.5	5	16-QAM	1/24	9.11	V	7.88	0.85	16.14	33
1880	5	16-QAM	1/0	9.71	V	7.88	0.85	16.74	33
1907.5	5	16-QAM	1/24	10.82	V	7.88	0.85	17.85	33
1852.5	5	16-QAM	1/24	9.75	H	7.88	0.85	16.78	33

1880	5	16-QAM	1/0	10.66	H	7.88	0.85	17.69	33
1907.5	5	16-QAM	1/24	9.69	H	7.88	0.85	16.72	33
1855	10	QPSK	1/0	9.98	V	7.88	0.85	17.01	33
1880	10	QPSK	1/0	10.21	V	7.88	0.85	17.24	33
1905	10	QPSK	1/49	10.00	V	7.88	0.85	17.03	33
1855	10	QPSK	1/0	9.62	H	7.88	0.85	16.65	33
1880	10	QPSK	1/0	10.48	H	7.88	0.85	17.51	33
1905	10	QPSK	1/49	9.74	H	7.88	0.85	16.77	33
1855	10	16-QAM	1/0	10.03	V	7.88	0.85	17.06	33
1880	10	16-QAM	1/0	9.88	V	7.88	0.85	16.91	33
1905	10	16-QAM	1/49	9.83	V	7.88	0.85	16.86	33
1855	10	16-QAM	1/0	10.55	H	7.88	0.85	17.58	33
1880	10	16-QAM	1/0	9.77	H	7.88	0.85	16.80	33
1905	10	16-QAM	1/49	10.48	H	7.88	0.85	17.51	33
1857.5	15	QPSK	1/0	9.92	V	7.88	0.85	16.95	33
1880	15	QPSK	1/0	9.35	V	7.88	0.85	16.38	33
1902.5	15	QPSK	1/0	9.62	V	7.88	0.85	16.65	33
1857.5	15	QPSK	1/0	10.08	H	7.88	0.85	17.11	33
1880	15	QPSK	1/0	10.08	H	7.88	0.85	17.11	33
1902.5	15	QPSK	1/0	9.22	H	7.88	0.85	16.25	33
1857.5	15	16-QAM	1/0	10.24	V	7.88	0.85	17.27	33
1880	15	16-QAM	1/0	10.76	V	7.88	0.85	17.79	33
1902.5	15	16-QAM	1/0	10.30	V	7.88	0.85	17.33	33
1857.5	15	16-QAM	1/0	10.56	H	7.88	0.85	17.59	33
1880	15	16-QAM	1/0	9.78	H	7.88	0.85	16.81	33
1902.5	15	16-QAM	1/0	10.45	H	7.88	0.85	17.48	33
1860	20	QPSK	1/0	9.22	V	7.88	0.85	16.25	33
1880	20	QPSK	1/0	10.26	V	7.88	0.85	17.29	33
1900	20	QPSK	1/0	8.93	V	7.88	0.85	15.96	33
1860	20	QPSK	1/0	9.97	H	7.88	0.85	17.00	33
1880	20	QPSK	1/0	9.44	H	7.88	0.85	16.47	33
1900	20	QPSK	1/0	10.31	H	7.88	0.85	17.34	33
1860	20	16-QAM	1/0	9.92	V	7.88	0.85	16.95	33
1880	20	16-QAM	1/0	9.89	V	7.88	0.85	16.92	33
1900	20	16-QAM	1/0	9.97	V	7.88	0.85	17.00	33
1860	20	16-QAM	1/0	9.94	H	7.88	0.85	16.97	33
1880	20	16-QAM	1/0	10.27	H	7.88	0.85	17.30	33
1900	20	16-QAM	1/0	9.61	H	7.88	0.85	16.64	33



EIRP for LTE Band 4 (Part 27)

Frequency (MHz)	BW (MHz)	Modulation	RB Size/Offset	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1710.7	1.4	QPSK	1/0	10.49	V	7.95	0.79	17.65	30
1732.5	1.4	QPSK	1/0	10.33	V	7.95	0.79	17.49	30
1754.3	1.4	QPSK	1/0	10.30	V	7.95	0.79	17.46	30
1710.7	1.4	QPSK	1/0	9.83	H	7.95	0.79	16.99	30
1732.5	1.4	QPSK	1/0	10.83	H	7.95	0.79	17.99	30
1754.3	1.4	QPSK	1/0	9.54	H	7.95	0.79	16.70	30
1710.7	1.4	16-QAM	1/5	10.09	V	7.95	0.79	17.25	30
1732.5	1.4	16-QAM	1/0	11.17	V	7.95	0.79	18.33	30
1754.3	1.4	16-QAM	1/0	10.29	V	7.95	0.79	17.45	30
1710.7	1.4	16-QAM	1/5	9.73	H	7.95	0.79	16.89	30
1732.5	1.4	16-QAM	1/0	9.77	H	7.95	0.79	16.93	30
1754.3	1.4	16-QAM	1/0	10.33	H	7.95	0.79	17.49	30
1711.5	3	QPSK	1/0	9.37	V	7.95	0.79	16.53	30
1732.5	3	QPSK	1/0	9.50	V	7.95	0.79	16.66	30
1753.5	3	QPSK	1/0	9.99	V	7.95	0.79	17.15	30
1711.5	3	QPSK	1/0	10.79	H	7.95	0.79	17.95	30
1732.5	3	QPSK	1/0	9.84	H	7.95	0.79	17.00	30
1753.5	3	QPSK	1/0	9.99	H	7.95	0.79	17.15	30
1711.5	3	16-QAM	1/0	9.20	V	7.95	0.79	16.36	30
1732.5	3	16-QAM	1/0	9.93	V	7.95	0.79	17.09	30
1753.5	3	16-QAM	1/0	10.24	V	7.95	0.79	17.40	30
1711.5	3	16-QAM	1/0	9.55	H	7.95	0.79	16.71	30
1732.5	3	16-QAM	1/0	9.60	H	7.95	0.79	16.76	30
1753.5	3	16-QAM	1/0	10.37	H	7.95	0.79	17.53	30
1712.5	5	QPSK	1/0	9.88	V	7.95	0.79	17.04	30
1732.5	5	QPSK	1/0	8.97	V	7.95	0.79	16.13	30
1752.5	5	QPSK	1/24	10.29	V	7.95	0.79	17.45	30
1712.5	5	QPSK	1/0	9.94	H	7.95	0.79	17.10	30
1732.5	5	QPSK	1/0	9.60	H	7.95	0.79	16.76	30
1752.5	5	QPSK	1/24	8.70	H	7.95	0.79	15.86	30
1712.5	5	16-QAM	1/0	10.17	V	7.95	0.79	17.33	30
1732.5	5	16-QAM	1/0	9.84	V	7.95	0.79	17.00	30
1752.5	5	16-QAM	1/24	9.93	V	7.95	0.79	17.09	30
1712.5	5	16-QAM	1/0	10.44	H	7.95	0.79	17.60	30
1732.5	5	16-QAM	1/0	9.59	H	7.95	0.79	16.75	30



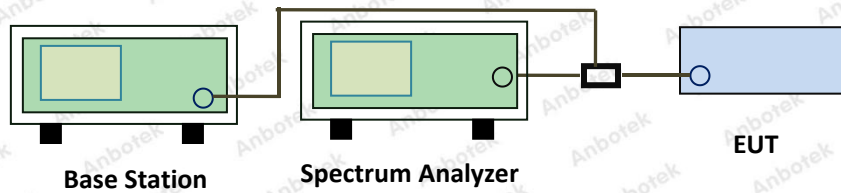
1752.5	5	16-QAM	1/24	9.71	H	7.95	0.79	16.87	30
1715	10	QPSK	1/0	10.15	V	7.95	0.79	17.31	30
1732.5	10	QPSK	1/49	9.67	V	7.95	0.79	16.83	30
1750	10	QPSK	1/0	9.50	V	7.95	0.79	16.66	30
1715	10	QPSK	1/0	9.52	H	7.95	0.79	16.68	30
1732.5	10	QPSK	1/49	10.18	H	7.95	0.79	17.34	30
1750	10	QPSK	1/0	9.36	H	7.95	0.79	16.52	30
1715	10	16-QAM	1/0	10.18	V	7.95	0.79	17.34	30
1732.5	10	16-QAM	1/49	9.98	V	7.95	0.79	17.14	30
1750	10	16-QAM	1/0	9.75	V	7.95	0.79	16.91	30
1715	10	16-QAM	1/0	9.56	H	7.95	0.79	16.72	30
1732.5	10	16-QAM	1/49	9.51	H	7.95	0.79	16.67	30
1750	10	16-QAM	1/0	9.98	H	7.95	0.79	17.14	30
1717.5	15	QPSK	1/0	10.25	V	7.95	0.79	17.41	30
1732.5	15	QPSK	1/74	9.13	V	7.95	0.79	16.29	30
1747.5	15	QPSK	1/0	10.14	V	7.95	0.79	17.30	30
1717.5	15	QPSK	1/0	9.79	H	7.95	0.79	16.95	30
1732.5	15	QPSK	1/74	9.76	H	7.95	0.79	16.92	30
1747.5	15	QPSK	1/0	9.08	H	7.95	0.79	16.24	30
1717.5	15	16-QAM	1/0	9.71	V	7.95	0.79	16.87	30
1732.5	15	16-QAM	1/74	9.98	V	7.95	0.79	17.14	30
1747.5	15	16-QAM	1/0	10.60	V	7.95	0.79	17.76	30
1717.5	15	16-QAM	1/0	9.71	H	7.95	0.79	16.87	30
1732.5	15	16-QAM	1/74	9.46	H	7.95	0.79	16.62	30
1747.5	15	16-QAM	1/0	9.39	H	7.95	0.79	16.55	30
1720	20	QPSK	1/99	10.81	V	7.95	0.79	17.97	30
1732.5	20	QPSK	1/99	9.72	V	7.95	0.79	16.88	30
1745	20	QPSK	1/0	9.24	V	7.95	0.79	16.40	30
1720	20	QPSK	1/99	10.26	H	7.95	0.79	17.42	30
1732.5	20	QPSK	1/99	9.52	H	7.95	0.79	16.68	30
1745	20	QPSK	1/0	9.79	H	7.95	0.79	16.95	30
1720	20	16-QAM	1/99	10.82	V	7.95	0.79	17.98	30
1732.5	20	16-QAM	1/99	10.30	V	7.95	0.79	17.46	30
1745	20	16-QAM	1/0	10.48	V	7.95	0.79	17.64	30
1720	20	16-QAM	1/99	9.72	H	7.95	0.79	16.88	30
1732.5	20	16-QAM	1/99	9.84	H	7.95	0.79	17.00	30
1745	20	16-QAM	1/0	9.45	H	7.95	0.79	16.61	30

4. Peak-Average Ratio

4.1. Test Standard and Limit

In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

4.2. Test Setup



4.3. Test Procedure

According with KDB 971168

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

4.4. Test Data

Please refer to separate files for Appendix B.

5. Modulation Characteristic

According to FCC § 2.1047(d), Part 22H, Part 24E& Part 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

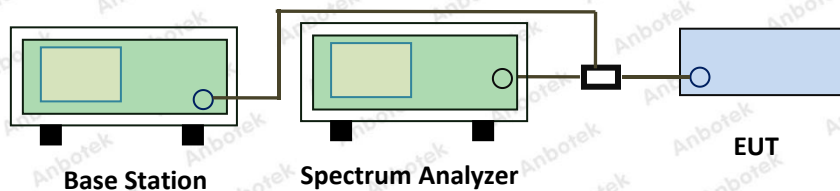


6. Occupied Bandwidth

6.1. Test Standard and Limit

Spec	Item	Requirement
§2.1049, §22.917, §22.905 §24.238 §27.53(a)	a)	99% Occupied Bandwidth(kHz)
	b)	26 dB Bandwidth(kHz)

6.2. Test Setup



6.3. Test Procedure

1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
2. RBW was set to about 1% of emission BW, VBW= 3 times RBW.
3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

6.4. Test Data

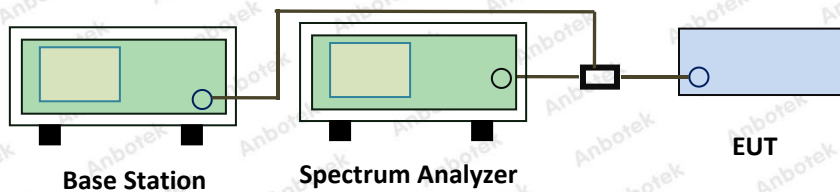
Please refer to separate files for Appendix C.

7. Spurious Emissions at Antenna Terminals

7.1. Test Standard and Limit

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least $(43 + 10 \log P)$ dB, in this case, -13dBm.

7.2. Test Setup



7.3. Test Procedure

1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
2. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.
3. For the out of band: Set the RBW= 1MHz, VBW = 3MHz, Start=30MHz, Stop= 10th harmonic.

7.4. Test Data

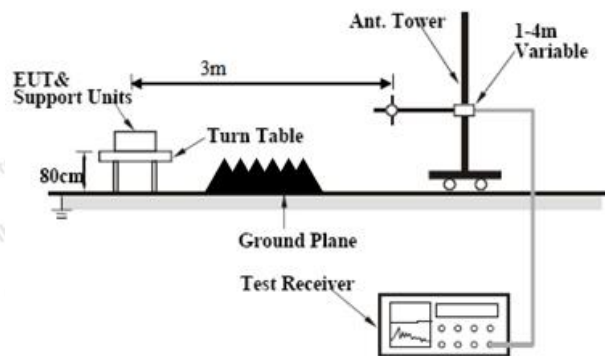
Please refer to separate files for Appendix E.

8. Spurious Radiated Emissions

8.1. Test Standard and Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

8.2. Test Setup



8.3. Test Procedure

1. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Sample Calculation:

EUT Field Strength = Raw Amplitude (dB μ V/m) – Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)

8.4. Test Data

Please to see the following pages

LTE Band II , Low Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
281.2	-55.99	V	5.4	0.24	-50.83	-13	-37.83
281.2	-49.62	H	5.4	0.24	-44.46	-13	-31.46
3705	-47.10	V	10.25	2.73	-39.58	-13	-26.58
3705	-42.90	H	10.25	2.73	-35.38	-13	-22.38

LTE Band II , Middle Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
281.2	-55.51	V	5.4	0.24	-50.35	-13	-37.35
281.2	-49.57	H	5.4	0.24	-44.41	-13	-31.41
3760	-46.99	V	10.25	2.73	-39.47	-13	-26.47
3760	-43.85	H	10.25	2.73	-36.33	-13	-23.33

LTE Band II , High Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
281.2	-56.17	V	5.4	0.24	-51.01	-13	-38.01
281.2	-50.32	H	5.4	0.24	-45.16	-13	-32.16
3815	-46.36	V	10.25	2.73	-38.84	-13	-25.84
3815	-43.50	H	10.25	2.73	-35.98	-13	-22.98

Note: The measurement have been performed for all mode, only report the worst case (5MHz QPSK).

LTE Band IV , Low Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
281.2	-56.30	V	5.4	0.24	-51.14	-13	-38.14
281.2	-50.30	H	5.4	0.24	-45.14	-13	-32.14
3423	-46.82	V	10.09	2.52	-39.25	-13	-26.25
3423	-46.97	H	10.09	2.52	-39.40	-13	-26.40

LTE Band IV , Middle Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
281.2	-56.56	V	5.4	0.24	-51.40	-13	-38.40
281.2	-50.12	H	5.4	0.24	-44.96	-13	-31.96
3465	-46.91	V	10.09	2.52	-39.34	-13	-26.34
3465	-46.91	H	10.09	2.52	-39.34	-13	-26.34

LTE Band IV , High Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
281.2	-56.10	V	5.4	0.24	-50.94	-13	-37.94
281.2	-49.42	H	5.4	0.24	-44.26	-13	-31.26
3507	-46.09	V	10.09	2.52	-38.52	-13	-25.52
3507	-46.80	H	10.09	2.52	-39.23	-13	-26.23

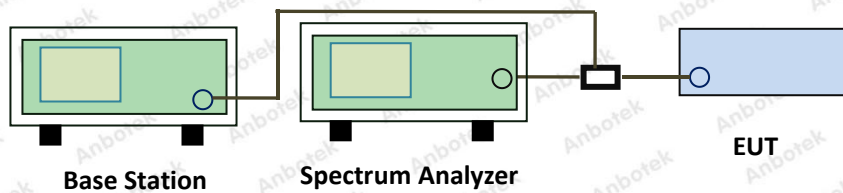
Note: The measurement have been performed for all mode, only report the worst case (3MHz 16QAM) .

9. Band Edge Compliance

9.1. Test Standard and Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

9.2. Test Setup



9.3. Test Procedure

1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
2. For the bandedge: 2G: Set the RBW=5.1KHz, VBW = 10KHz, Sweep time= Auto

9.4. Test Data

Please refer to separate files for Appendix D.

10. Frequency Stability

10.1. Test Standard and Limit

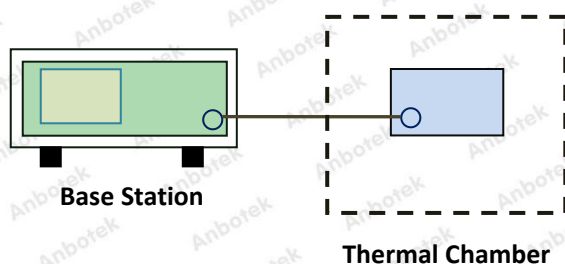
According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.

10.2. Test Setup



10.3. Test Procedure

A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage.

Limit: The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

10.4. Test Data

LTE Band II Test Frequency: 1880MHz(QPSK)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	7.4	-5	-0.0027	2.5
-20		-5	-0.0027	2.5
-10		-6	-0.0032	2.5
0		-3	-0.0016	2.5
10		-5	-0.0027	2.5
20		-3	-0.0016	2.5
30		5	0.0027	2.5
40		6	0.0032	2.5
50		-2	-0.0011	2.5
20	6.29	-7	-0.0037	2.5
20	8.51	-5	-0.0027	2.5

LTE Band II Test Frequency: 1880MHz(16QAM)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	7.4	-6	-0.0032	2.5
-20		-8	-0.0043	2.5
-10		-7	-0.0037	2.5
0		-9	-0.0048	2.5
10		-6	-0.0032	2.5
20		-8	-0.0043	2.5
30		4	0.0021	2.5
40		-7	-0.0037	2.5
50		-6	-0.0032	2.5
20	6.29	-4	-0.0021	2.5
20	8.51	-6	-0.0032	2.5



LTE Band IV Test Frequency:1732.5MHz(QPSK)				
Temperature(℃)	Power Supply(V ^{DC})	Frequency Error(Hz)	Frequency Error(ppm)	Limit(ppm)
-30	7.4	7	0.0040	2.5
-20		6	0.0035	2.5
-10		-1	-0.0006	2.5
0		-3	-0.0017	2.5
10		-4	-0.0023	2.5
20		-4	-0.0023	2.5
30		-5	-0.0029	2.5
40		-6	-0.0035	2.5
50		-3	-0.0017	2.5
20	6.29	-5	-0.0029	2.5
20	8.51	-2	-0.0012	2.5

LTE Band IV Test Frequency:1732.5MHz(16QAM)				
Temperature(℃)	Power Supply(V ^{DC})	Frequency Error(Hz)	Frequency Error(ppm)	Limit(ppm)
-30	7.4	6	0.0035	2.5
-20		5	0.0029	2.5
-10		-3	-0.0017	2.5
0		-5	-0.0029	2.5
10		-5	-0.0029	2.5
20		-6	-0.0035	2.5
30		-6	-0.0035	2.5
40		-8	-0.0046	2.5
50		-6	-0.0035	2.5
20	6.29	-5	-0.0029	2.5
20	8.51	-6	-0.0035	2.5

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files for Test Setup Photos of the EUT.

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files for External Photos of the EUT.

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files for Internal Photos of the EUT.

----- End of Report -----

