

TEST REPORT

APPLICANT : Shenzhen Chainway Information

Technology Co.,Ltd.

PRODUCT NAME: Mobile Data Terminal

MODEL NAME : C72

BRAND NAME: CHAINWAY

FCC ID : 2AC6AC72

47 CFR Part 22, Subpart H

STANDARD(S): 47 CFR Part 24, Subpart E

47 CFR Part 27, Subpart L&M

TEST DATE : 2018-02-02 to 2018-05-21

ISSUE DATE : 2018-05-21

Tested by:

Su Hang (Test Engineer)

Approved by:

Andy Yeh (Technical Director)

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Change History								
Issue	Date	Reason for change						
1.0	2018-05-21	First edition						





1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant: Shenzhen Chainway Information Technology Co.,Ltd.			
Applicant Address:	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District		
	67, Bao'an, Shenzhen		
Manufacturer:	Shenzhen Chainway Information Technology Co.,Ltd.		
Manufacturer Address:	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District		
	67, Bao'an, Shenzhen		

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Data Terminal			
Serial No:	(N/A, marked #	#1 by test site)		
Hardware Version:	C70SE_MB_V11			
Software Version:	C72A_MT6735	5_V1.1-AM_GIT938ee72_20171205		
Modulation Type:	QPSK, 16QAM	1		
Operation Band:	Band 2 / 4 / 7 /	12/17		
	LTE Band 2	Tx: 1850MHz -1910MHz		
	LIE Ballu Z	Rx: 1930MHz -1990MHz		
	LTE Band 4	Tx: 1710MHz -1755MHz		
		Rx: 2110MHz - 2155MHz		
Erogueney Benge	LTE Band 7	Tx: 2500MHz - 2570MHz		
Frequency Range:		Rx: 2500MHz - 2570MHz		
	LTE Band 12	Tx: 699MHz - 716MHz		
		Rx: 729MHz - 746MHz		
	LTE Bond 17	Tx: 704MHz - 716MHz		
	LTE Band 17	Rx: 734MHz- 746MHz		
	LTE Band 2	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz		
	LTE Band 4	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz		
Channel Bandwidth	LTE Band 7	5 MHz, 10MHz, 15 MHz, 20 MHz		
	LTE Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz		
	LTE Band 17 5 MHz, 10MHz			





1M10G7D (LTE Band 2, QPSK, BW 1.4MHz) 1M10W7D (LTE Band 2, 16QAM, BW 1.4MHz) 2M71G7D (LTE Band 2, QPSK, BW 3MHz) 2M71 W7D (LTE Band 2, 16QAM, BW 3MHz) 4M53G7D (LTE Band 2, QPSK, BW 5MHz) 4M53W7D (LTE Band 2, 16QAM, BW 5MHz) 9M02G7D (LTE Band 2, QPSK, BW 10MHz) 9M01W7D (LTE Band 2, 16QAM, BW 10MHz) 13M52G7D (LTE Band 2, QPSK, BW 15MHz) 13M52W7D (LTE Band 2, 16QAM, BW 15MHz) 18M04G7D (LTE Band 2, QPSK, BW 20MHz) 18M05W7D (LTE Band 2, 16QAM, BW 20MHz) 1M13G7D (LTE Band 4, QPSK, BW 1.4MHz) 1M11W7D (LTE Band 4, 16QAM, BW 1.4MHz) 2M74G7D (LTE Band 4, QPSK, BW 3MHz) 2M73W7D (LTE Band 4, 16QAM, BW 3MHz) 4M57G7D (LTE Band 4, QPSK, BW 5MHz) 4M58W7D (LTE Band 4, 16QAM, BW 5MHz)

Emission Designator:

9M11G7D (LTE Band 4, QPSK, BW 10MHz) 9M06W7D (LTE Band 4, 16QAM, BW 10MHz) 13M60G7D (LTE Band 4, QPSK, BW 15MHz) 13M62W7D (LTE Band 4, 16QAM, BW 15MHz) 18M04G7D (LTE Band 4, QPSK, BW 20MHz) 18M09W7D (LTE Band 4, 16QAM, BW 20MHz) 4M54G7D (LTE Band 7, QPSK, BW 5MHz) 4M54W7D (LTE Band 7, 16QAM, BW 5MHz) 9M12G7D (LTE Band 7, QPSK, BW 10MHz) 9M01W7D (LTE Band 7, 16QAM, BW 10MHz) 13M54G7D (LTE Band 7, QPSK, BW 15MHz) 13M55W7D (LTE Band 7, 16QAM, BW 15MHz) 18M02G7D (LTE Band 7, QPSK, BW 20MHz) 18M06W7D (LTE Band 7, 16QAM, BW 20MHz) 1M10G7D (LTE Band 12, QPSK, BW 1.4MHz) 1M11W7D (LTE Band 12, 16QAM, BW 1.4MHz) 2M72G7D (LTE Band 12, QPSK, BW 3MHz) 2M71W7D (LTE Band 12, 16QAM, BW 3MHz) 4M54G7D (LTE Band 12, QPSK, BW 5MHz) 4M54W7D (LTE Band 12, 16QAM, BW 5MHz) 9M04G7D (LTE Band 12, QPSK, BW 10MHz)





	9M03W7D (LTE Band 12, 16QAM, BW 10MHz)					
	4M54G7D (LTE Band 17, QPSK, B)	4M54G7D (LTE Band 17, QPSK, BW 5MHz)				
	4M54W7D (LTE Band 17, 16QAM,	BW 5MHz)				
	9M03G7D (LTE Band 17, QPSK, B)	W 10MHz)				
	9M04W7D (LTE Band 17, 16QAM, BW 10MHz)					
Antenna Type:	PIFA Antenna					
Antenna Gain:	0.49 dBi					
	Normal(NV): 3.8V					
Operating voltage:	Lowest(LV): 3.6V					
	Highest(HV):	4.35V				

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.3. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 24 and Part 27 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 24	Personal Communications Services
3	47 CFR Part 27	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are as below:

Section	Description	Test Date	Test Engineer	Result
2.1046	Transmitter Conducted Output Power	May 21, 2018	Su Hang	PASS
2.1049	Occupied Bandwidth	Feb 02&05, 2018	Su Hang	PASS
2.1055, 24.235, 27.54	Frequency Stability	Feb 05, 2018	Su Hang	PASS
24.232(d), 27.50(d)(5)	Peak to Average Radio	Feb 05, 2018	Su Hang	PASS
2.1051, 24.238, 27.53(g)(h), 27.53(m)(4)	Conducted Spurious Emissions	Feb 05, 2018	Su Hang	PASS
2.1051, 24.238, 27.53(g)(h), 27.53(m)(4)	Band Edge	Feb 09&24, 2018	Su Hang	PASS
24.232(c), 27.50(c)(10) 27.50(d)(4), 27.50(h)(2)	Equivalent Isotropic Radiated Power	May 20, 2018	Wu Zhongwen	PASS
2.1051, 24.238, 27.53(g)(h), 27.53(m)(4)	Radiated Spurious Emissions	Feb 02, 2018	Wu Zhongwen	PASS

Note: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 (Oct 27, 2017) and ANSI/TIA-603-E-2016.

1.4. Environmental Conditions

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

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106





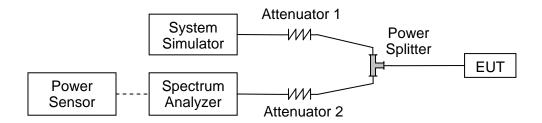
2. 47 CFR Part 2, Part 24E & 27 Requirements

2.1. Transmitter Conducted Output Power

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

2.1.4. Result





Band	Donal Width	Channal	Frag (MILE)	Modulation	RB Cor	nfiguration	Average Power
Danu	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	23.02
					1	49	22.94
					1	99	22.75
				QPSK	50	0	22.43
					50	25	22.31
		L			50	49	22.15
		_	1860		100	0	22.15
		40700	1000		1	0	21.73
		18700			1	49	21.88
					1	99	21.93
				16-QAM	50	0	20.83
					50	25	20.74
					50	49	20.77
					100	0	20.77
					1	0	23.08
	20MHz	M 18900			1	49	23.02
					1	99	22.95
				QPSK	50	0	23.05
			1880		50	25	22.82
					50	49	22.76
LTE					100	0	22.55
				16-QAM	1	0	22.21
Band 2					1	49	22.28
					1	99	22.02
					50	0	20.98
					50	25	20.91
					50	49	20.99
					100	0	21.00
					1	0	23.14
					1	49	23.22
					1	99	23.27
				QPSK	50	0	22.83
					50	25	22.74
		Н			50	49	22.73
			1900		100	0	22.73
		40400	1900		1	0	22.43
		19100			1	49	22.29
					1	99	22.20
				16-QAM	50	0	21.07
					50	25	21.04
					50	49	21.13
					100	0	21.15





Band	Donal Width	Chamal	Freq.(MHz)	Madulation	RB Cor	figuration	Average Power
Danu	Band Width	Channel	1 16q.(IVII 12)	Modulation	RB Size	RB Offset	(dBm)
					1	0	22.57
					1	37	22.39
					1	74	22.24
				QPSK	36	0	21.99
					36	18	21.76
		L			36	35	21.72
		_	1857.5		75	0	21.55
		40075	1657.5		1	0	21.71
		18675			1	37	21.86
					1	74	21.82
				16-QAM	36	0	20.65
					36	18	20.62
	15MHz				36	35	20.64
					75	0	20.64
					1	0	23.24
		M 18900		QPSK	1	37	23.11
					1	74	23.00
					36	0	23.11
					36	18	22.98
LTE					36	35	22.83
LIE			1880		75	0	22.81
			1880	16-QAM	1	0	22.26
Band 2					1	37	22.28
					1	74	21.89
					36	0	20.92
					36	18	20.92
					36	35	20.89
					75	0	20.92
					1	0	23.22
					1	37	23.13
					1	74	22.96
				QPSK	36	0	22.96
					36	18	22.76
		Н			36	35	22.62
			1902.5		75	0	22.74
		19125			1	0	22.47
		19120			1	37	22.25
					1	74	22.35
				16-QAM	36	0	20.98
					36	18	21.01
					36	35	21.04
					75	0	21.05





Dond	Donal Minth	Chamal	From (MIII-)	Madulation	RB Cor	figuration	Average Power
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	22.49
					1	24	22.89
					1	49	22.88
				QPSK	25	0	21.75
					25	12	21.53
		L			25	24	21.40
		_	4055		50	0	21.49
			1855		1	0	21.46
		18650			1	24	21.94
					1	49	21.85
				16-QAM	25	0	20.57
					25	12	20.49
	10MHz				25	24	20.51
					50	0	20.59
					1	0	22.76
		M 18900			1	24	22.92
					1	49	23.04
			1880	QPSK	25	0	23.01
					25	12	22.81
					25	24	22.90
LTE					50	0	22.88
				16-QAM	1	0	21.64
Band 2					1	24	22.30
					1	49	21.87
					25	0	20.88
					25	12	20.84
					25	24	20.88
					50	0	20.93
					1	0	22.91
					1	24	23.00
					1	49	23.31
				QPSK	25	0	22.36
					25	12	22.21
		Н			25	24	22.19
			1905		50	0	22.05
		10150	1900		1	0	21.83
		19150			1	24	22.17
					1	49	22.03
				16-QAM	25	0	20.98
					25	12	20.96
					25	24	21.07
					50	0	21.05





Band	Donal Width	Chamal	Freq.(MHz)	Madulation	RB Cor	figuration	Average Power
Danu	Band Width	Channel	rieq.(IVII IZ)	Modulation	RB Size	RB Offset	(dBm)
					1	0	22.48
					1	12	22.33
					1	24	22.35
				QPSK	12	0	21.12
					12	6	21.31
		L			12	11	21.37
		_	1852.5		25	0	21.05
		40005	1002.0		1	0	21.36
		18625			1	12	21.80
					1	24	21.45
				16-QAM	12	0	20.62
					12	6	20.50
					12	11	20.55
	5MHz				25	0	20.48
					1	0	22.81
		M 18900	1880	QPSK	1	12	22.85
					1	24	22.72
					12	0	22.96
					12	6	22.49
LTE					12	11	22.69
LIE					25	0	22.49
				16-QAM	1	0	21.57
Band 2					1	12	22.08
					1	24	21.81
					12	0	20.83
					12	6	20.82
					12	11	20.86
					25	0	20.86
					1	0	22.92
					1	12	22.79
					1	24	22.80
				QPSK	12	0	22.22
					12	6	22.01
		Н			12	11	22.03
			1907.5		25	0	22.01
		19175			1	0	21.96
		19173			1	12	22.35
					1	24	21.75
				16-QAM	12	0	21.08
					12	6	21.00
					12	11	21.10
					25	0	20.96





Band	Band Width	Channel	Fra 7 (MIII-)	Madulation	RB Cor	figuration	Average Power
Бапи	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	23.21
					1	7	23.30
					1	14	23.05
				QPSK	8	0	22.65
		L			8	4	22.63
					8	7	22.51
		_	1851.5		15	0	22.19
		40045	1051.5		1	0	21.88
		18615			1	7	21.52
					1	14	21.54
				16-QAM	8	0	20.47
					8	4	20.40
					8	7	20.51
	_				15	0	20.53
					1	0	23.43
		M 18900			1	7	23.43
					1	14	23.14
			1880	QPSK	8	0	22.67
					8	4	22.32
LTE					8	7	22.45
LIE					15	0	22.19
	3MHz			16-QAM	1	0	22.27
Band 2					1	7	21.78
					1	14	21.93
					8	0	20.97
					8	4	20.87
					8	7	20.83
					15	0	20.95
					1	0	23.43
					1	7	23.02
					1	14	23.20
				QPSK	8	0	22.44
					8	4	22.58
		н			8	7	22.30
]	1908.5		15	0	22.00
		10105	1000.0		1	0	22.21
		19185			1	7	22.15
					1	14	22.31
				16-QAM	8	0	20.92
					8	4	21.10
					8	7	21.05
					15	0	20.98



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David	D 100% 101		- (A411.)	M 11 c	RB Cor	figuration	Average Power
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	22.24
					1	2	22.13
					1	5	22.23
				QPSK	3	0	21.96
					3	1	21.76
		L			3	2	21.63
		_	1850.7		6	0	21.45
			1650.7		1	0	21.32
		18607			1	2	21.74
					1	5	21.40
				16-QAM	3	0	21.47
					3	1	21.46
					3	2	21.38
					6	0	20.46
		M			1	0	22.54
					1	2	22.75
			1880		1	5	22.54
				QPSK	3	0	22.40
					3	1	22.38
LTE					3	2	22.43
LIL	4.48411				6	0	23.10
	1.4MHz	18900			1	0	21.68
Band 2					1	2	22.28
					1	5	21.64
				16-QAM	3	0	22.21
					3	2	21.99
					3	5	21.79
					6	0	20.87
					1	0	22.65
					1	2	22.35
					1	5	22.70
				QPSK	3	0	22.29
					3	1	22.26
		Н			3	2	22.23
			1909.3		6	0	22.02
		19193			1	0	22.01
		19193			1	2	22.19
					1	5	21.96
				16-QAM	3	0	21.91
					3	1	22.14
					3	2	22.12
					6	0	21.07





Band	Donal Wielth	Channal	Frag (MILE)	Madulation	RB Cor	figuration	Average Power
Бапи	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	23.36
					1	49	23.30
					1	99	23.41
				QPSK	50	0	23.32
					50	25	22.80
		L			50	49	22.80
		_	1720.0		100	0	22.68
			1720.0		1	0	22.60
		20050			1	49	22.54
					1	99	22.14
				16-QAM	50	0	21.23
					50	25	21.11
					50	49	21.02
					100	0	21.14
					1	0	23.38
					1	49	23.52
					1	99	23.34
			QPSK	50	0	23.31	
		M 20175	1732.5		50	25	23.32
					50	49	23.03
LTE					100	0	22.96
	20MHz			16-QAM	1	0	22.33
Band 4					1	49	22.50
					1	99	22.44
					50	0	21.24
					50	25	21.10
					50	49	21.20
					100	0	21.18
					1	0	23.93
					1	49	23.81
					1	99	23.99
				QPSK	50	0	23.34
					50	25	23.86
		н			50	49	23.90
			1745.0		100	0	23.48
		20000	1740.0		1	0	22.66
		20300			1	49	22.59
					1	99	22.77
				16-QAM	50	0	21.44
					50	25	21.46
					50	49	21.74
					100	0	21.55





David	D 1347:141	0	E (MIL)	M 11 c	RB Cor	figuration	Average Power
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	22.80
					1	37	22.82
					1	74	22.63
		L		QPSK	36	0	22.42
					36	18	22.51
					36	35	22.52
			4747.5		75	0	22.46
			1717.5		1	0	22.49
		20025			1	37	22.42
					1	74	22.10
				16-QAM	36	0	21.18
					36	18	21.12
					36	35	21.03
					75	0	21.10
					1	0	23.14
					1	37	23.02
					1	74	22.87
			QPSK	36	0	22.63	
		M 20175	1732.5		36	18	22.40
					36	35	22.55
LTE					75	0	22.00
	15MHz				1	0	22.37
Band 4					1	37	22.12
				16-QAM	1	74	22.18
					36	0	21.13
					36	18	21.05
					36	35	21.09
					75	0	21.13
					1	0	23.66
					1	37	23.62
					1	74	23.59
				QPSK	36	0	23.02
					36	18	23.11
		Н			36	35	22.96
			1747.5		75	0	22.91
		20225	1171.0		1	0	22.51
		20325			1	37	22.95
					1	74	22.91
				16-QAM	36	0	21.46
					36	18	21.63
					36	35	21.78
					75	0	21.61





Dond	Donal Width	Channal	Frag (MILE)	Madulation	RB Cor	figuration	Average Power
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	23.08
					1	24	22.98
					1	49	22.78
				QPSK	25	0	23.22
					25	12	22.96
		L			25	24	22.82
		_	1715.0		50	0	22.83
			1715.0		1	0	21.85
		20000			1	24	22.29
					1	49	22.28
				16-QAM	25	0	21.07
					25	12	21.02
					25	24	21.01
					50	0	21.04
					1	0	23.09
		M 10MHz 20175			1	24	23.00
			1732.5		1	49	22.84
				QPSK	25	0	23.21
					25	12	22.81
					25	24	22.69
LTE					50	0	22.52
	10MHz				1	0	22.12
Band 4					1	24	22.36
				16-QAM	1	49	22.37
					25	0	21.06
					25	12	20.98
					25	24	21.07
					50	0	21.13
					1	0	23.75
					1	24	23.61
					1	49	24.00
				QPSK	25	0	23.90
					25	12	23.89
		Н			25	24	23.62
			1750.0		50	0	23.33
		20252	1730.0		1	0	22.46
		20350			1	24	22.80
					1	49	23.17
				16-QAM	25	0	21.54
					25	12	21.61
					25	24	21.76
					50	0	21.70





David	D 100% 101	01 1	- (A411.)	Maria	RB Cor	figuration	Average Power
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	23.05
					1	12	22.98
					1	24	22.79
				QPSK	12	0	23.20
		L			12	6	22.74
					12	11	22.81
			1712.5		25	0	22.72
		40075	1712.5		1	0	22.14
		19975			1	12	22.41
					1	24	21.93
				16-QAM	12	0	21.06
					12	6	21.06
					12	11	21.10
					25	0	21.01
					1	0	22.91
					1	12	23.19
		M 20175			1	24	23.00
			1732.5	QPSK	12	0	23.18
					12	6	22.99
LTE					12	11	22.98
LIC					25	0	22.77
	5MHz			16-QAM	1	0	21.89
Band 4					1	12	22.13
					1	24	21.68
					12	0	21.16
					12	6	20.95
					12	11	21.00
					25	0	20.95
					1	0	23.72
					1	12	23.44
					1	24	23.57
				QPSK	12	0	23.00
					12	6	22.46
		Н			12	11	23.84
			1752.5		25	0	22.56
		20375	1102.0		1	0	22.63
		203/3			1	12	23.09
					1	24	22.41
				16-QAM	12	0	21.71
					12	6	21.69
					12	11	21.68
					25	0	21.65





Band	Donal Width	Chamal	Frag (MILE)	Madulation	RB Cor	nfiguration	Average Power
Danu	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	23.56
					1	7	23.35
					1	14	23.22
				QPSK	8	0	23.23
		L			8	4	23.02
					8	7	23.01
		_	1711.5		15	0	22.86
			1711.5		1	0	22.15
		19965			1	7	22.04
					1	14	22.47
				16-QAM	8	0	20.95
					8	4	21.07
					8	7	21.05
					15	0	21.08
					1	0	23.21
					1	7	23.14
		M 20175		QPSK	1	14	23.34
			1732.5		8	0	22.42
					8	4	22.70
					8	7	22.35
LTE					15	0	22.40
	3MHz			16-QAM	1	0	22.19
Band 4					1	7	22.31
					1	14	22.40
					8	0	21.19
					8	4	21.09
					8	7	20.99
					15	0	21.17
					1	0	23.87
					1	7	23.42
					1	14	23.35
				QPSK	8	0	23.57
					8	4	22.97
		Н			8	7	23.14
			1753.5		15	0	23.30
	0000=	1700.0		1	0	23.01	
		20385			1	7	22.86
					1	14	23.09
				16-QAM	8	0	21.56
					8	4	21.60
					8	7	21.87
					15	0	21.70





Band	Band Width	Channel	Frog (MHz)	Modulation	RB Cor	figuration	Average Power
Danu	Danu Wiuin	Charmer	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	22.69
					1	2	22.52
					1	5	22.35
				QPSK	3	0	22.11
					3	1	22.00
		L			3	2	22.21
		_	1710.7		6	0	23.16
			1710.7		1	0	21.92
		19957			1	2	22.27
					1	5	21.92
				16-QAM	3	0	22.34
					3	1	22.13
					3	2	21.93
					6	0	21.01
					1	0	22.74
		M 20175			1	2	22.56
					1	5	22.44
			1732.5	QPSK	3	0	22.42
					3	1	22.10
					3	2	22.35
LTE					6	0	23.20
	1.4MHz				1	0	21.72
Band 4					1	2	22.42
					1	5	21.89
					3	0	22.07
					3	2	22.18
					3	5	22.10
					6	0	21.00
					1	0	23.77
					1	2	23.32
					1	5	23.56
				QPSK	3	0	23.15
					3	1	23.01
		н			3	2	23.23
		''	1754.3		6	0	23.87
		00000	1734.3		1	0	22.56
		20393			1	2	22.74
					1	5	22.52
				16-QAM	3	0	22.82
					3	1	22.75
					3	2	22.70
					6	0	21.71





Band	Donal Wielth	Channal	Frag (MILE)	Madulation	RB Cor	figuration	Average Power
Бапи	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	22.68
					1	49	22.42
					1	99	23.00
				QPSK	50	0	21.99
					50	25	22.31
		L			50	49	22.20
		_	2510		100	0	22.01
		00050	2310		1	0	21.38
		20850			1	49	21.95
					1	99	21.87
				16-QAM	50	0	20.58
					50	25	20.59
					50	49	20.76
					100	0	20.68
					1	0	23.87
		M 21100			1	49	23.44
				QPSK	1	99	23.87
			2535		50	0	23.88
					50	25	23.67
					50	49	23.53
LTE					100	0	22.98
	20MHz			16-QAM	1	0	22.93
Band 7					1	49	22.93
					1	99	23.09
					50	0	21.77
					50	25	21.48
					50	49	21.67
					100	0	21.80
					1	0	24.18
					1	49	23.92
					1	99	23.98
				QPSK	50	0	23.25
					50	25	23.51
		н			50	49	23.05
			2560		100	0	23.12
		04050	2000		1	0	23.44
		21350			1	49	23.07
					1	99	22.85
				16-QAM	50	0	21.92
					50	25	21.82
					50	49	21.77
					100	0	21.93





David	D 1347:141		E (MIL)	M 11 c	RB Cor	figuration	Average Power
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	22.89
					1	37	22.26
					1	74	22.27
				QPSK	36	0	21.63
					36	18	21.94
		L			36	35	22.21
		_	2507.5		75	0	22.10
		22225	2507.5		1	0	21.86
		20825			1	37	22.12
					1	74	21.85
				16-QAM	36	0	20.43
					36	18	20.60
					36	35	20.67
					75	0	20.56
					1	0	24.17
					1	37	24.13
					1	74	23.98
			QPSK	36	0	23.20	
		M 21100	2535		36	18	23.40
LTE					36	35	22.99
LTE					75	0	22.89
	15MHz				1	0	23.06
Band 7					1	37	22.92
					1	74	22.93
				16-QAM	36	0	21.62
					36	18	21.49
					36	35	21.60
					75	0	21.56
					1	0	23.97
					1	37	23.45
					1	74	23.87
				QPSK	36	0	23.42
					36	18	23.06
		Н			36	35	23.00
			2562.5		75	0	23.04
		21375	2002.0		1	0	22.84
		213/3			1	37	22.84
					1	74	22.85
				16-QAM	36	0	21.77
					36	18	21.81
					36	35	21.81
					75	0	21.83





Band	Band Width	Channal	From (MILIT)	Modulation	RB Cor	figuration	Average Power
Danu	band widin	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	22.76
					1	24	22.43
					1	49	22.13
				QPSK	25	0	22.72
					25	12	22.65
		L			25	24	22.22
		_	2505		50	0	21.97
		00000	2303		1	0	21.06
		20800			1	24	21.74
					1	49	21.82
				16-QAM	25	0	20.42
					25	12	20.39
					25	24	20.57
					50	0	20.50
					1	0	23.89
					1	24	23.82
		M z 21100			1	49	23.58
			2535	QPSK	25	0	22.97
					25	12	23.21
LTE					25	24	23.31
LIE					50	0	22.99
	10MHz				1	0	22.63
Band 7					1	24	22.71
				16-QAM	1	49	22.68
					25	0	21.56
					25	12	21.42
					25	24	21.51
					50	0	21.51
					1	0	23.86
					1	24	23.14
					1	49	23.19
				QPSK	25	0	22.98
					25	12	23.23
		н			25	24	23.18
			2565		50	0	23.30
		24.400	2000		1	0	22.68
		21400			1	24	23.02
					1	49	23.12
				16-QAM	25	0	21.75
					25	12	21.69
					25	24	21.80
					50	0	21.79





Band	Donal Width	Channel	From (MIII-)	Madulatian	RB Cor	figuration	Average Power
Danu	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	22.29
					1	12	22.25
					1	24	22.27
		L		QPSK	12	0	21.84
					12	6	21.81
					12	11	21.61
			2502.5		25	0	21.34
		00775	2502.5		1	0	21.21
		20775			1	12	21.57
					1	24	21.05
				16-QAM	12	0	20.29
					12	6	20.34
					12	11	20.32
					25	0	20.31
					1	0	23.55
					1	12	23.34
		M MHz 21100	2535		1	24	23.59
				QPSK	12	0	23.58
					12	6	23.35
LTE					12	11	23.43
LIE					25	0	22.18
	5MHz				1	0	22.53
Band 7				16-QAM	1	12	22.75
					1	24	22.81
					12	0	21.63
					12	6	21.37
					12	11	21.54
					25	0	21.54
					1	0	23.68
					1	12	23.66
					1	24	23.63
				QPSK	12	0	23.03
					12	6	23.23
		Н			12	11	23.20
			2567.5		25	0	23.28
	24.405	2001.0		1	0	22.67	
		21425			1	12	22.93
					1	24	22.72
				16-QAM	12	0	21.77
					12	6	21.81
					12	11	21.83
					25	0	21.74





Dend	D 1 \\ \\ \\ \\ \ \ \ \ \ \ \ \ \ \	Observati	F (A411-)	Marshalatian	RB Cor	figuration	Average Power
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	22.22
					1	24	22.21
					1	49	22.22
				QPSK	25	0	21.87
					25	12	21.87
		L			25	24	21.77
		_	704		50	0	21.57
			704		1	0	21.68
		23060			1	24	21.58
					1	49	21.60
				16-QAM	25	0	20.26
					25	12	20.12
					25	24	20.07
					50	0	20.22
			707.5	QPSK	1	0	22.19
		M 23095			1	24	21.10
					1	49	22.12
					25	0	22.29
					25	12	22.36
					25	24	21.99
LTE					50	0	22.09
	10MHz			16-QAM	1	0	21.46
Band 12					1	24	21.59
					1	49	21.02
					25	0	20.20
					25	12	20.06
					25	24	20.04
					50	0	20.12
					1	0	21.97
					1	24	21.56
					1	49	21.84
				QPSK	25	0	21.24
					25	12	21.62
		Н			25	24	21.40
		''	711		50	0	21.21
			711		1	0	20.93
		23130			1	24	21.08
					1	49	20.88
				16-QAM	25	0	19.96
					25	12	19.85
					25	24	19.73
					50	0	19.92





David	D 1147 141		- (A411.)	Maria	RB Cor	figuration	Average Power
Band	Band Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	22.27
					1	12	21.85
					1	24	21.99
				QPSK	12	0	21.85
					12	6	21.64
		L			12	11	21.52
		_	701.5		25	0	21.63
		22025	701.5		1	0	21.37
		23035			1	12	21.89
					1	24	21.15
				16-QAM	12	0	20.41
					12	6	20.15
					12	11	20.24
					25	0	20.29
				QPSK	1	0	22.10
		M 23095	707.5		1	12	22.11
					1	24	21.79
					12	0	22.22
					12	6	22.11
LTE					12	11	21.97
	5MHz				25	0	22.01
5 140	SIVITZ			16-QAM	1	0	21.10
Band 12					1	12	21.27
					1	24	21.09
					12	0	20.18
					12	6	20.09
					12	11	20.08
					25	0	20.04
					1	0	21.62
					1	12	21.35
					1	24	21.25
				QPSK	12	0	21.62
					12	6	21.44
		Н			12	11	21.49
			713.5		25	0	21.14
		23155	7 10.0		1	0	20.74
		23155			1	12	21.22
					1	24	20.32
				16-QAM	12	0	19.84
					12	6	19.67
					12	11	19.47
					25	0	19.60





	5 1145.61	<u> </u>	- (4)	N 114	RB Configuration		Average Power
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	23.50
					1	7	23.21
					1	14	23.48
				QPSK	8	0	22.96
					8	4	22.79
		L			8	7	22.65
		_	700.5		15	0	22.30
			700.5		1	0	21.92
		23025			1	7	21.73
					1	14	21.55
				16-QAM	8	0	20.45
					8	4	20.35
					8	7	20.46
					15	0	20.26
				QPSK	1	0	22.58
		M 23095			1	7	22.32
					1	14	22.15
			707.5		8	0	22.10
					8	4	21.98
LTE					8	7	21.98
LIE	2.41.				15	0	21.86
	3MHz			16-QAM	1	0	21.44
Band 12					1	7	21.36
					1	14	21.46
					8	0	20.10
ı					8	4	20.18
ı					8	7	19.94
					15	0	20.14
					1	0	22.36
					1	7	22.49
					1	14	22.32
				QPSK	8	0	21.90
					8	4	21.87
		Н			8	7	21.76
			714.5		15	0	21.46
		23165			1	0	20.95
		20100			1	7	20.45
					1	14	20.55
				16-QAM	8	0	19.45
					8	4	19.28
					8	7	19.30
					15	0	19.58





Band	Donal Width	Channal	Freq.(MHz)	Modulation	RB Cor	figuration	Average Power
Danu	Band Width	Channel	1 1eq.(IVII 12)	Wodulation	RB Size	RB Offset	(dBm)
					1	0	22.11
					1	2	22.11
					1	5	22.29
				QPSK	3	0	21.90
					3	1	21.67
		L			3	2	21.34
		_	699.7		6	0	21.54
		00047	099.1		1	0	21.10
		23017			1	2	21.97
					1	5	21.25
				16-QAM	3	0	21.54
					3	1	21.80
					3	2	21.46
					6	0	20.31
				QPSK	1	0	21.74
		M 23095			1	2	21.62
					1	5	21.38
			707.5		3	0	21.21
					3	1	21.06
LTE					3	2	20.95
LIE					6	0	22.14
	1.4MHz			16-QAM	1	0	21.08
Band 12					1	2	21.47
					1	5	21.01
					3	0	21.50
					3	2	21.22
					3	5	21.08
					6	0	20.11
					1	0	21.22
					1	2	21.45
					1	5	21.60
				QPSK	3	0	21.01
					3	1	20.80
		Н			3	2	20.83
			715.3		6	0	20.66
		00470	1 10.0		1	0	20.35
		23173			1	2	20.74
					1	5	20.10
				16-QAM	3	0	20.56
					3	1	20.62
					3	2	20.49
					6	0	19.49





Donal	Daniel Mindel	Observati	F (A411-)	Marshalatian	RB Configuration		Average Power
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	22.26
					1	24	22.14
					1	49	22.01
				QPSK	25	0	22.40
					25	12	22.22
		L			25	24	22.19
		_	709		50	0	21.89
		00700	709		1	0	21.50
		23780			1	24	21.37
					1	49	21.36
				16-QAM	25	0	20.28
					25	12	20.27
					25	24	20.12
					50	0	20.19
			710	QPSK	1	0	22.26
		M 23790			1	24	22.32
					1	49	22.44
					25	0	22.38
					25	12	22.13
LTE					25	24	21.99
LTE					50	0	21.99
	10MHz			16-QAM	1	0	21.20
Band 17					1	24	21.58
					1	49	21.28
					25	0	20.33
					25	12	20.13
					25	24	19.94
					50	0	20.15
					1	0	21.98
					1	24	21.47
					1	49	21.91
				QPSK	25	0	21.93
					25	12	21.65
		Н			25	24	21.89
			711		50	0	21.58
		00000	/ 11		1	0	21.41
		23800			1	24	21.24
					1	49	20.93
				16-QAM	25	0	20.10
					25	12	19.97
					25	24	19.80
					50	0	19.95





Band	Dand Width	Channal	From (MILIT)	Modulation	RB Cor	figuration	Average Power
Бапи	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
					1	0	22.16
					1	12	22.10
					1	24	22.14
				QPSK	12	0	22.32
					12	6	21.90
		L			12	11	21.95
		_	706.5		25	0	21.92
		00755	700.5		1	0	21.01
		23755			1	12	21.50
					1	24	21.00
				16-QAM	12	0	20.37
					12	6	20.27
					12	11	20.24
					25	0	20.24
				QPSK	1	0	22.16
		M 23790			1	12	22.06
					1	24	22.20
			710		12	0	22.28
					12	6	22.21
LTE					12	11	21.94
LIL					25	0	21.92
	5MHz			16-QAM	1	0	21.34
Band 17					1	12	21.58
					1	24	21.23
					12	0	20.34
					12	6	20.07
					12	11	20.17
					25	0	20.07
					1	0	21.69
					1	12	21.53
					1	24	21.40
				QPSK	12	0	21.59
					12	6	21.36
		Н			12	11	21.28
			713.5		25	0	21.30
		23825			1	0	20.95
		23020			1	12	20.87
					1	24	20.54
				16-QAM	12	0	19.83
					12	6	19.72
					12	11	19.51
					25	0	19.72



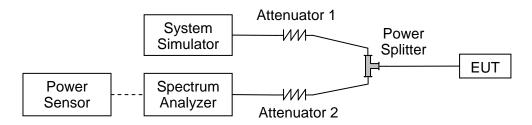


2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth 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. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

2.2.4. Test Result

LTE Band 2, BW: 1.4MHz								
	Eroguenev	QP	SK	16QAM				
Channel	Frequency (MHz)	99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth			
	(IVITIZ)	(MHz)	(MHz)	(MHz)	(MHz)			
18607	1850.7	1.1006	1.283	1.0949	1.260			
18900	1880.0	1.0976	1.273	1.1012	1.283			
19192	1909.2	1.1010	1.287	1.0962	1.258			



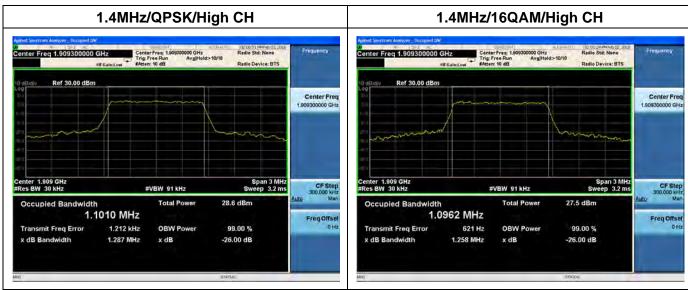


LTE Band 2, BW: 3MHz								
LIE Band	a 2, BW: 3WF		Ol	400	\			
	Frequency	QP	I		QAM			
Channel	(MHz)	99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth			
	, ,	(MHz)	(MHz)	(MHz)	(MHz)			
18615	1851.5	2.7149	2.973	2.7067	2.990			
18900	1880.0	2.7072	2.984	2.7131	2.994			
19184	1908.4	2.7081	2.977	2.7037	2.974			
LTE Band	d 2, BW: 5MI	łz						
	Eroguenav	QP	SK	160	QAM			
Channel	Frequency	99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth			
	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)			
18625	1852.5	4.5322	5.088	4.5336	5.065			
18900	1880.0	4.5348	5.046	4.5330	5.083			
19175	1907.5	4.4760	4.870	4.4676	4.888			
LTE Band	d 2, BW: 10N	lHz	I		l			
		QP	SK	16QAM				
Channel	Frequency (MHz)	99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth			
		(MHz)	(MHz)	(MHz)	(MHz)			
18650	1855.0	8.9822	9.955	8.9948	9.937			
18900	1880.0	9.0175	10.93	9.0089	9.852			
19150	1905.0	8.9988	9.991	8.9851	9.974			
	d 2, BW: 15N				<u> </u>			
		QP	SK	16QAM				
Channel	Frequency (MHz)	99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth			
		(MHz)	(MHz)	(MHz)	(MHz)			
18675	1857.5	13.488	15.06	13.488	14.42			
18900	1880.0	13.524	14.96	13.519	14.90			
19125	1902.5	13.483	15.03	13.497	14.96			
	l .		10.00	10.407	14.50			
LTE Band 2, BW: 20MHz _ QPSK 16QAM								
Channel	Frequency	99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth			
Chame	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)			
18700	1860.0	, ,	` '	` ,	` ,			
		17.997	19.63	18.054	19.95			
18900	1880.0	18.041	21.39	18.100	22.37			
19100	1900.0	17.992	19.70	17.951	19.52			



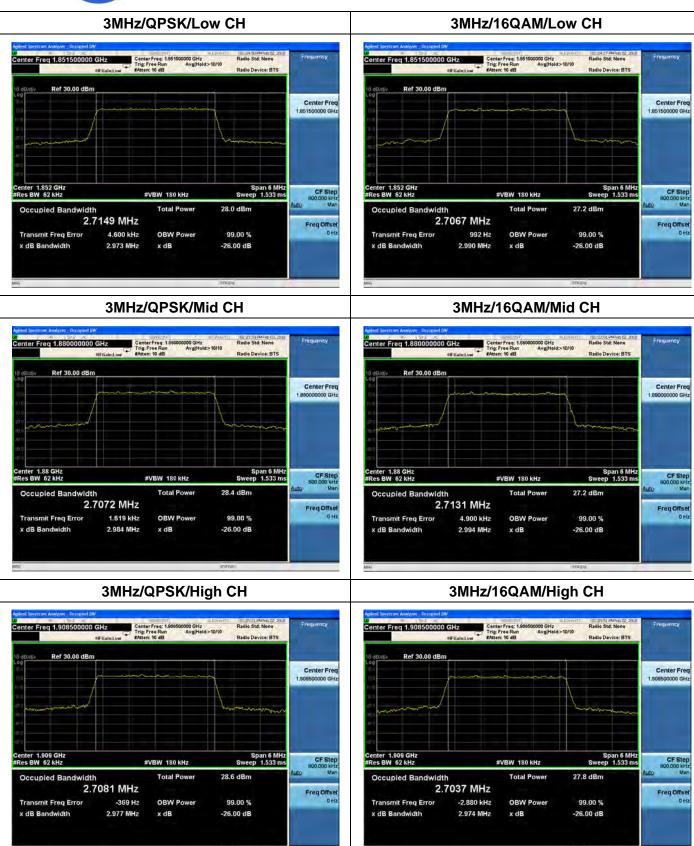
LTE Band 2 99%&26dB Bandwidth 1.4MHz/QPSK/Low CH 1.4MHz/16QAM/Low CH Radio Std: None Frequency Center Freq: 1.850700000 GHz Trig: Free Run AvgiHold>10/10 Center Freq: 1.850700000 GHz Trig: Free Run Avg|Hold>10/10 Radio Device: BTS Ref 30.00 dBm Center Freq 1.850700000 GHz Center Freq Center 1.851 GHz #Res BW 30 kHz Center 1.851 GHz #Res BW 30 kHz Span 3 MHz Sweep 3.2 ms CF Step 300,000 kHz Man CF Step #VBW 91 kHz #VBW 91 kHz Occupied Bandwidth Occupied Bandwidth 1.1006 MHz 1.0949 MHz Freq Offse Freq Offse Transmit Freq Error 2.079 kHz **OBW Power** 99.00 % Transmit Freq Error -879 Hz OBW Power 99.00 % 1.283 MHz -26.00 dB x dB Bandwidth 1.260 MHz -26.00 dB 1.4MHz/QPSK/Mid CH 1.4MHz/16QAM/Mid CH Ref 30.00 dBm Ref 30.00 dBm Center Freq Center Freq CF Ster Center 1.88 GHz #Res BW 30 kHz Center 1.88 GHz #Res BW 30 kHz Span 3 MHz weep 3.2 ms CF Step Occupied Bandwidth 27.7 dBm Occupied Bandwidth 27.1 dBm 1.0976 MHz 1.1012 MHz Freq Offse Freq Offse Transmit Freq Error -2.511 kHz **OBW Power** 99.00 % Transmit Freq Error -2.488 kHz OBW Power 99.00 % x dB Bandwidth 1.273 MHz -26.00 dB x dB Bandwidth 1.283 MHz x dB -26.00 dB











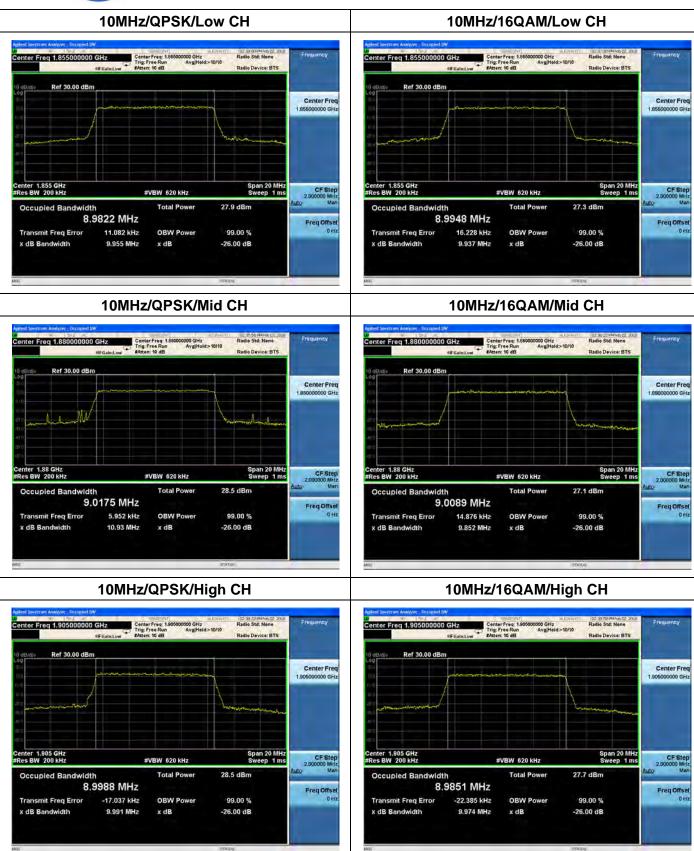






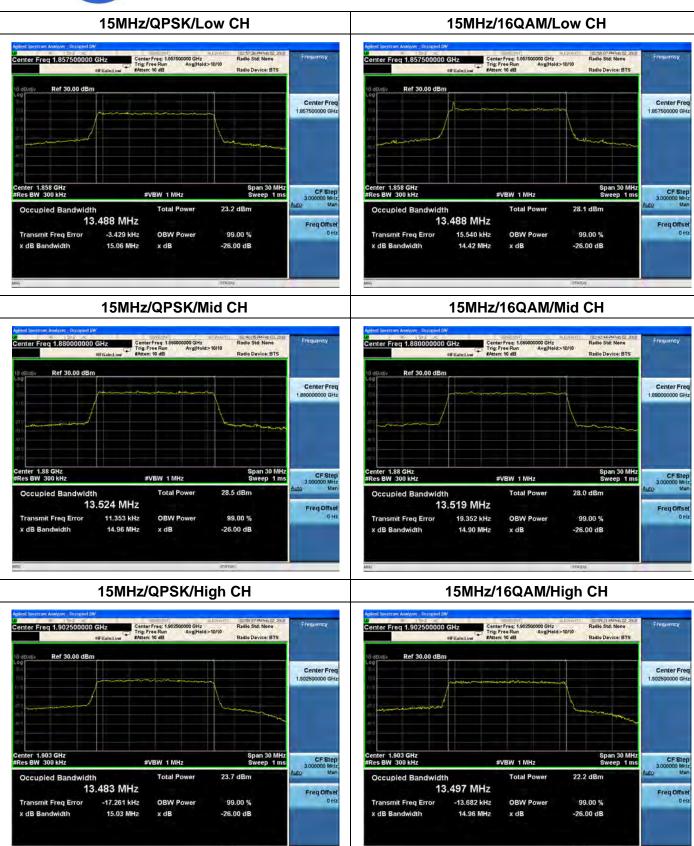






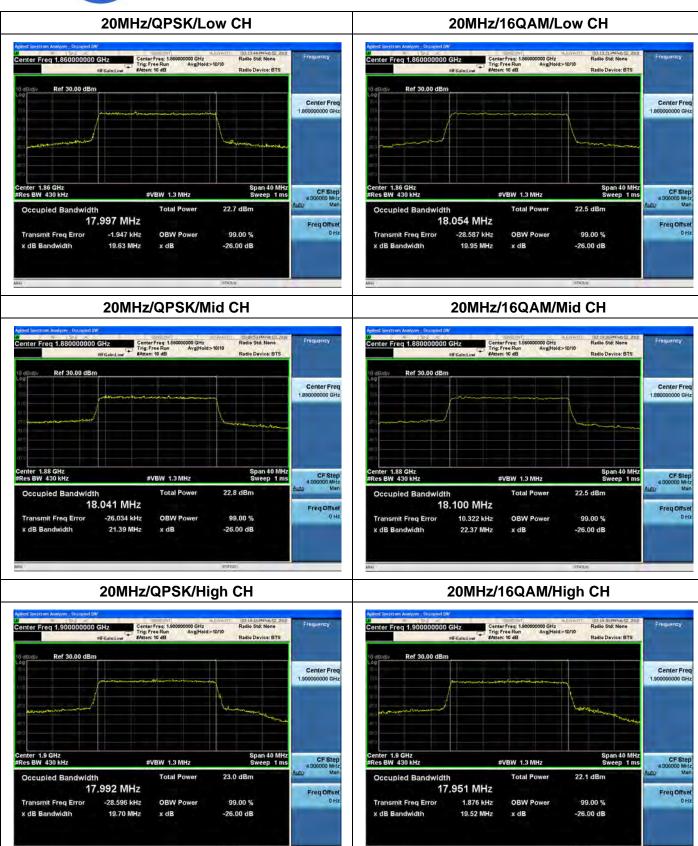
















LTE Band	d 4, BW: 1.4ľ	ИНz			
Channel	_	QPSK		16QAM	
	Frequency	99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth
	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)
19957	1710.7	1.1349	2.076	1.1143	2.128
20175	1732.5	1.0967	1.270	1.1032	1.282
20392	1754.2	1.1178	1.639	1.1090	1.674
LTE Band	d 4, BW: 3MI	Нz			
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth
		(MHz)	(MHz)	(MHz)	(MHz)
19965	1711.5	2.7429	4.325	2.7283	4.589
20175	1732.5	2.7103	2.989	2.7179	2.991
20384	1753.4	2.7302	4.013	2.7227	3.692
LTE Band	d 4, BW: 5MI	Hz			1
	F	QPSK		16QAM	
Channel	Frequency (MHz)	99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth
		(MHz)	(MHz)	(MHz)	(MHz)
19975	1712.5	4.5655	8.284	4.5727	7.004
20175	1732.5	4.5371	5.060	4.5335	5.088
20375	1752.5	4.5525	5.600	4.5767	6.295
LTE Band	d 4, BW: 10N	1Hz			
	Frequency (MHz)	QPSK		16QAM	
Channel		99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth
		(MHz)	(MHz)	(MHz)	(MHz)
20000	1715.0	9.0436	14.70	9.0596	14.56
20175	1732.5	9.0082	10.02	9.0059	9.949
20350	1750.0	9.1072	16.82	9.0643	16.06
LTE Band	d 4, BW: 15N	1Hz			
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth
		(MHz)	(MHz)	(MHz)	(MHz)
20025	1717.5	13.550	20.86	13.619	22.56
20175	1732.5	13.539	14.89	13.518	14.88
20325	1747.5	13.600	23.52	13.586	23.68

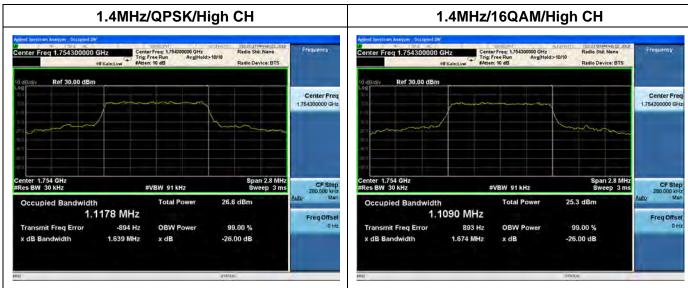


LTE Band 4, BW: 20MHz									
Channel	Frequency (MHz)	QPSK		16QAM					
		99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth				
		(MHz)	(MHz)	(MHz)	(MHz)				
20050	1720.0	17.980	19.60	17.995	19.76				
20175	1732.5	18.038	19.60	18.086	19.67				
20300	1745.0	17.969	19.57	17.965	19.64				

LTE Band 4 99%&26dB Bandwidth 1.4MHz/QPSK/Low CH 1.4MHz/16QAM/Low CH Center Freq: 1,710700000 GHz Trig: Free Run Avg|Hold>10/10 #Atten: 10 dB Radio Device: BTS Ref 30.00 dBm Ref 30.00 dBm Center Freq 1.710700000 GHz Center Freq Span 2.8 MHz Sweep 3 ms Span 2.8 MH Sweep 3 m #VBW 91 kHz #VBW 91 kHz 25.8 dBm Total Power 24.5 dBm 1.1349 MHz 1.1143 MHz Freq Offse 1.949 kHz 1.410 kHz 99.00 % **OBW Power** 99.00 % Transmit Freg Error **OBW Power** Transmit Free Error 2.076 MHz 2.128 MHz x dB Bandwidth x dB -26.00 dB x dB Bandwidth x dB -26.00 dB 1.4MHz/QPSK/Mid CH 1.4MHz/16QAM/Mid CH Center Freg 1.732500000 GHz Center Freg 1.732500000 GHz Radio Device: BTS Ref 30.00 dBm Ref 30.00 dBm Center Freq Center Freq Span 2.8 MHz Sweep 3 ms Span 2.8 MHz Sweep 3 ms #VBW 91 kHz **#VBW 91 kHz** 24.5 dBm 25.4 dBm Total Power Total Power 1.0967 MHz 1.1032 MHz Freq Offse -1.271 kHz **OBW Power** 99.00 % -1.707 kHz OBW Power 99.00 % Transmit Freq Error Transmit Freq Error 1.270 MHz 1.282 MHz -26.00 dB x dB -26.00 dB x dB Bandwidth x dB







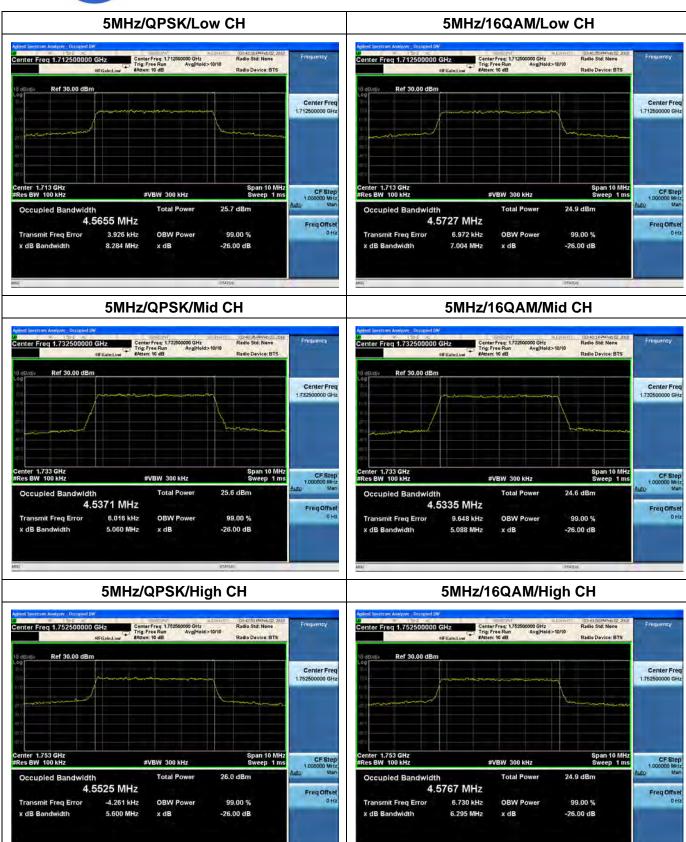












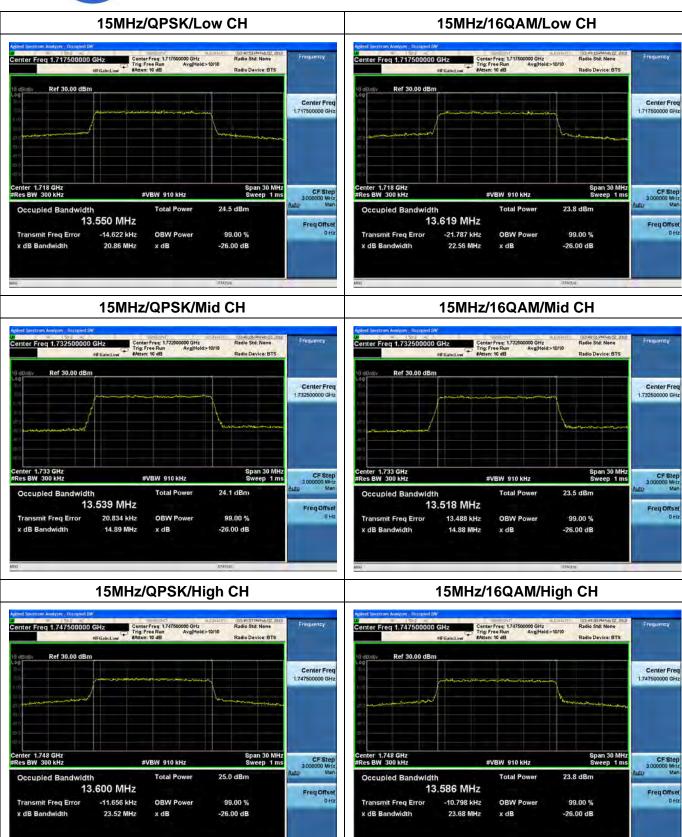






















LTE Band	d 7, BW: 5MH	Ηz			
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth
		(MHz)	(MHz)	(MHz)	(MHz)
20775	2502.5	4.5354	5.110	4.5241	5.048
21100	2535.0	4.5367	5.055	4.5311	5.094
21425	2567.5	4.5289	5.065	4.5428	5.100
LTE Band	d 7, BW: 10N	1Hz			
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth
		(MHz)	(MHz)	(MHz)	(MHz)
20800	2505.0	9.0003	9.925	9.0047	9.955
21100	2535.0	9.0129	10.06	9.0061	9.906
21400	2565.0	9.0118	9.997	9.0006	9.976
LTE Band	d 7, BW: 15N	1Hz			
	Frequency (MHz)	QPSK		16QAM	
Channel		99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth
		(MHz)	(MHz)	(MHz)	(MHz)
20825	2507.5	13.450	14.88	13.515	14.87
21100	2535.0	13.536	14.98	13.521	14.90
21375	2562.5	13.541	15.03	13.545	14.91
LTE Band	d 7, BW: 20N	1Hz			
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth	26dB Bandwidth	99% Bandwidth	26dB Bandwidth
		(MHz)	(MHz)	(MHz)	(MHz)
20850	2510.0	17.968	19.58	17.976	19.66
21100	2535.0	17.989	19.54	18.061	19.72
21350	2560.0	18.023	19.67	17.992	19.62



LTE Band 7 99%&26dB Bandwidth 5MHz/QPSK/Low CH 5MHz/16QAM/Low CH Center Freq: 2.502500000 GHz Trig: Free Run Avg|Hold>10/10 Center Freq: 2.502500000 GHz Trig: Free Run Avg|Hold>10/10 Center Freq Center Freq 2,502500000 GHz Span 10 MH: Sweep 1 ms Center 2.503 GHz Res BW 100 kHz enter 2.503 GHz Res BW 100 kHz Span 10 MHz Sweep 1 ms CF Step 1.000000 MHz CF Step 1.000000 MH #VBW 300 kHz #VBW 300 kHz Occupied Bandwidth Occupied Bandwidth 4.5354 MHz 4.5241 MHz Freq Offse Freq Offse Transmit Freq Error 6.384 kHz **OBW Power** 99.00 % Transmit Freq Error 3.914 kHz OBW Power 99.00 % 5.110 MHz -26.00 dB 5.048 MHz -26.00 dB 5MHz/QPSK/Mid CH 5MHz/16QAM/Mid CH Radio Std: None Center Freq: 2.5350 Trig: Free Run Ref 30,00 dBm Center Freq Center Freq CF Step. 1.000000 MHz Man Center 2.535 GHz #Res BW 100 kHz Span 10 MHz Sweep 1 ms Center 2.535 GHz #Res BW 100 kHz Span 10 MH: Sweep 1 ms CF Step Occupied Bandwidth 23.8 dBm 23.0 dBm Occupied Bandwidth 4.5367 MHz 4.5311 MHz Freq Offse Freq Offse Transmit Freq Error 6.788 kHz **OBW Power** 99.00 % Transmit Freq Error 6.847 kHz OBW Power 99.00 % y dB Randwidth 5.055 MHz x dB -26.00 dB x dB Bandwidth 5.094 MHz x dB -26.00 dB



