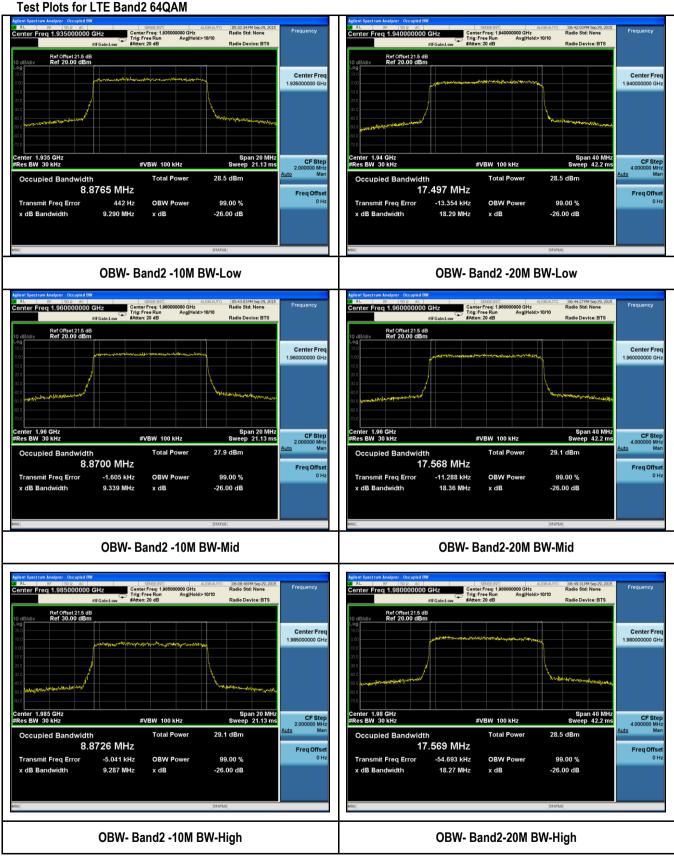
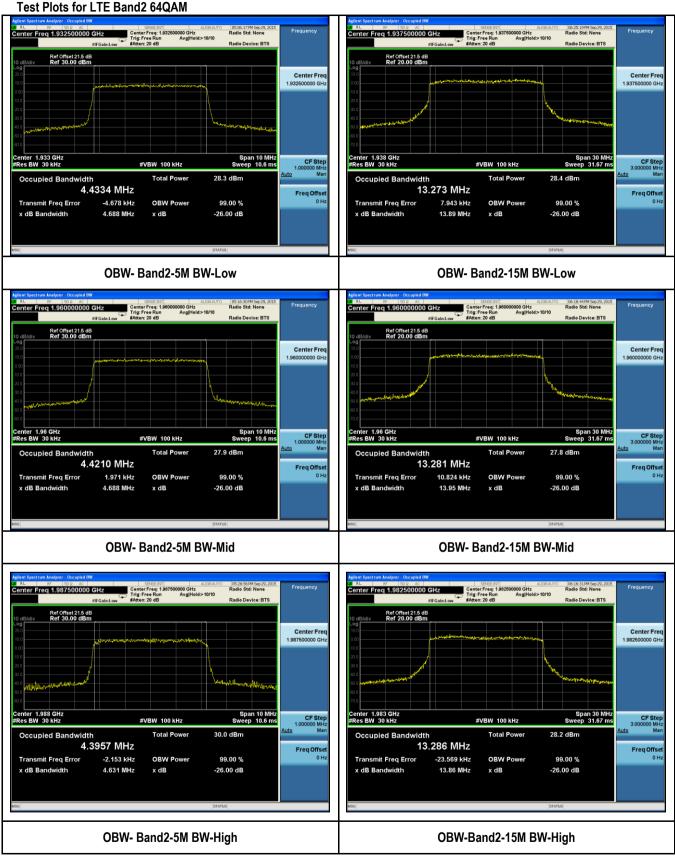


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10.4 Band Edge

Requirement(s):

Spec	Item	Requirement			Applicable
47CFR22.917	-	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.			
47CFR24.238	-		Dut of band emissions. The power of any emission outside of the authorized operating requency ranges must be attenuated below the transmitting power (P) by a factor of		
47CFR27.53	-		Dut of band emissions. The power of any emission outside of the authorized operating requency ranges must be attenuated below the transmitting power (P) by a factor of		
Test Setup		Spectrum Analyzer		EUT	
Test Procedure	1 2 3	. The spectrum analyzer w . A RBW of 1% greater that	was connected to the antenn an the 26 dB emission band wer RBW is used, a correct	d mode and highest RF output p a terminal. width should be used for band e factor calculated with formula 1	edge
Test Date		03/17/2014 /03/2015 – 04/13/2015 /24/2015 – 09/30/2015	Environmental condition	Temperature Relative Humidity Atmospheric Pressure	22°C 48% 1008mbar
Remark	NONE				
Result	⊠ Pa:	ss 🛛 Fail			

 Test Data
 ⊠ Yes
 □ N/A

Test Plot \boxtimes Yes (See below) \square N/A

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Band Edge Measurement Data for LTE band 4

Туре	Channel	Channel Frequency (MHz)	Measurement Band Edge (dBm)	RBW Correction factor (dB)	Corrected Band Edge (dBm)	Limit (dBm)
5MHz BW, QPSK	Low	2112.5	-24.011	0	-24.011	-13
	High	2152.5	-25.676	0	-25.676	-13
	Low	2112.5	-22.79	0	-22.79	-13
5MHz BW, 64QAM	High	2152.5	-23.05	0	-23.05	-13
	Low	2115	-16.585	0	-16.585	-13
10MHz BW, QPSK	High	2150	-16.782	0	-16.782	-13
	Low	2115	-17.989	0	-17.989	-13
10MHz BW, 64QAM	High	2150	-18.330	0	-18.33	-13
15MHz BW, QPSK	Low	2117.5	-33.148	1.76	-31.388	-13
	High	2147.5	-35.78	1.76	-34.02	-13
	Low	2117.5	-33.83	1.76	-32.07	-13
15MHz BW, 64QAM	High	2147.5	-32.88	1.76	-31.12	-13
20MHz BW, QPSK	Low	2120	-23.696	3.01	-20.686	-13
	High	2145	-25.753	3.01	-22.743	-13
	Low	2120	-21.896	3.01	-18.886	-13
20MHz BW, 64QAM	High	2145	-20.486	3.01	-17.476	-13
Note:	Correction Factor (15MHz BW): 10 log (150/100)= 1.76 Correction Factor (20MHz BW): 10 log (200/100)= 3.01					

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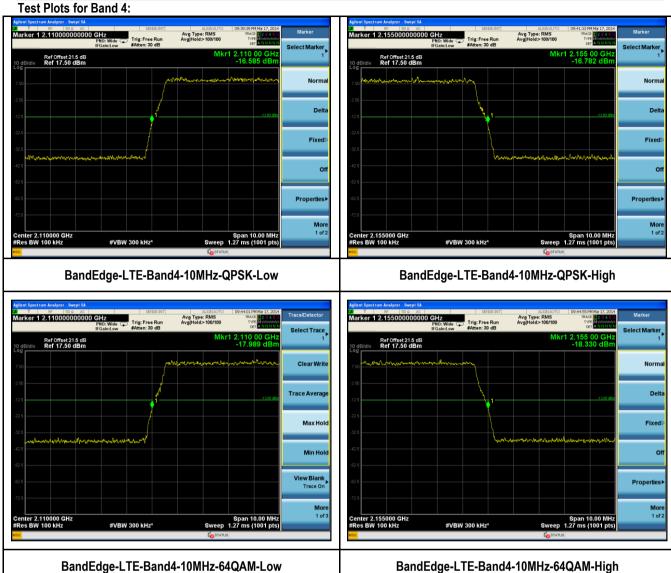
Band Edge Measurement Data for LTE band 2

Туре	Channel	Channel Frequency (MHz)	Measurement Band Edge (dBm)	Limit (dBm)
5MHz BW, QPSK	Low	1932.5	-34.15	-13
JIVII IZ DVV, QF SK	High	1987.5	-51.46	-13
5MHz BW, 64QAM	Low	1932.5	-34.20	-13
	High	1987.5	-51.53	-13
10MHz BW, QPSK	Low	1935	-33.47	-13
	High	1985	-47.66	-13
10MHz BW, 64QAM	Low	1935	-35.98	-13
	High	1985	-49.01	-13
15MHz BW, QPSK	Low	1937.5	-32.79	-13
IDIVINZ BVV, QPSK	High	1982.5	-46.95	-13
15MHz BW, 64QAM	Low	1937.5	-34.75	-13
	High	1982.5	-46.93	-13
20MHz BW, QPSK	Low	1940	-42.60	-13
	High	1980	-46.43	-13
	Low	1940	-41.80	-13
20MHz BW, 64QAM	High	1980	-45.55	-13

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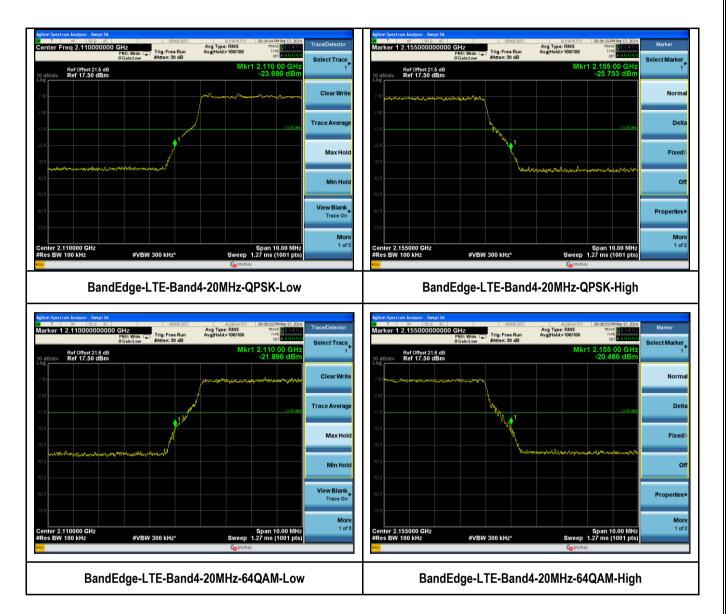


BandEdge-LTE-Band4-10MHz-64QAM-Low

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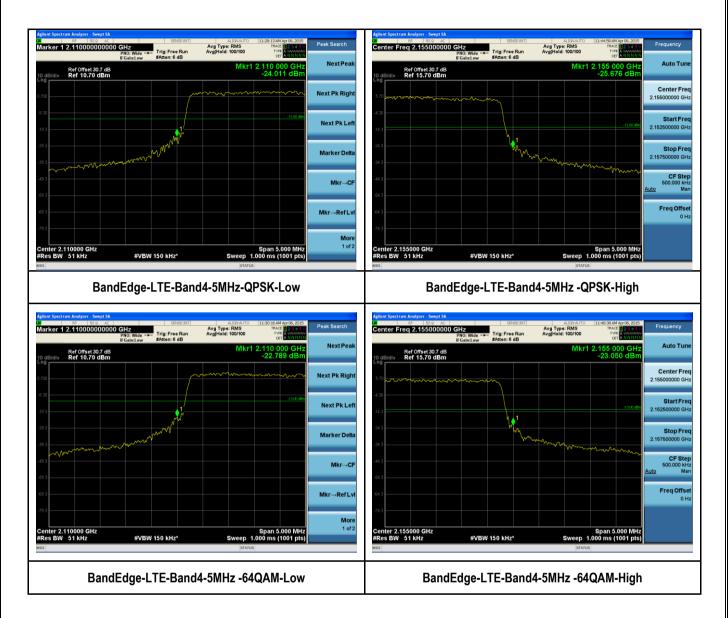


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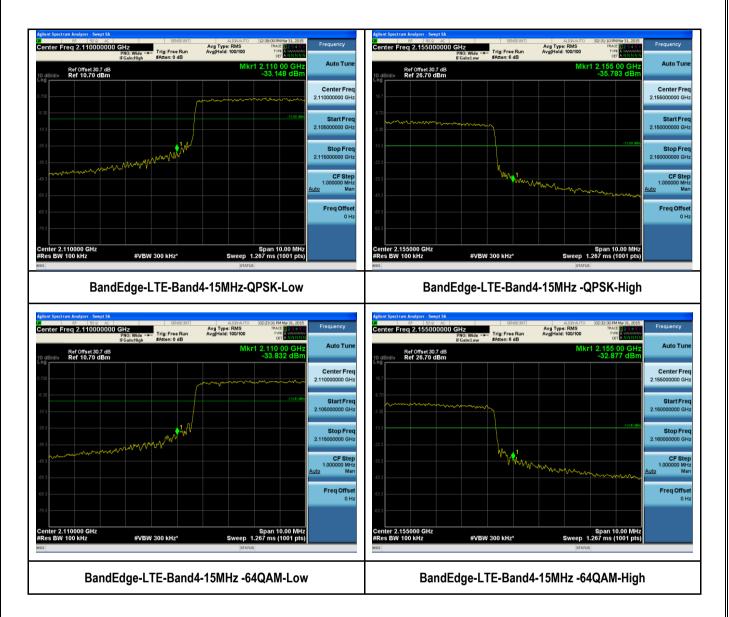


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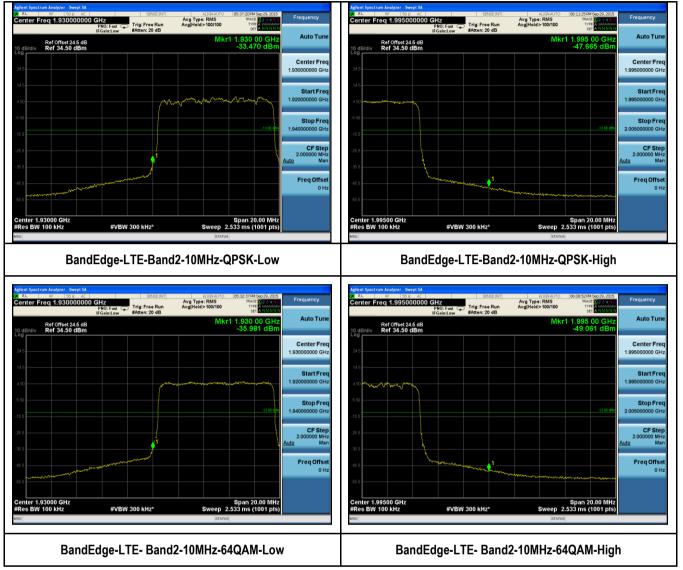
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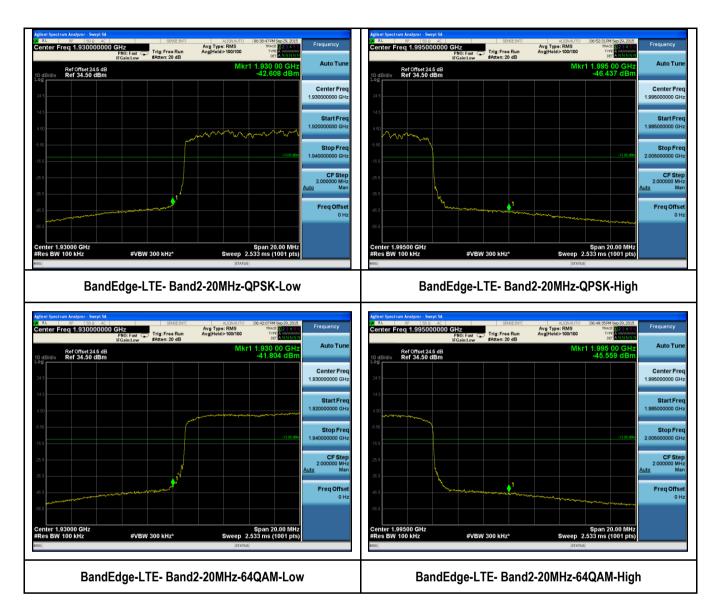
Test Plots for Band 2:



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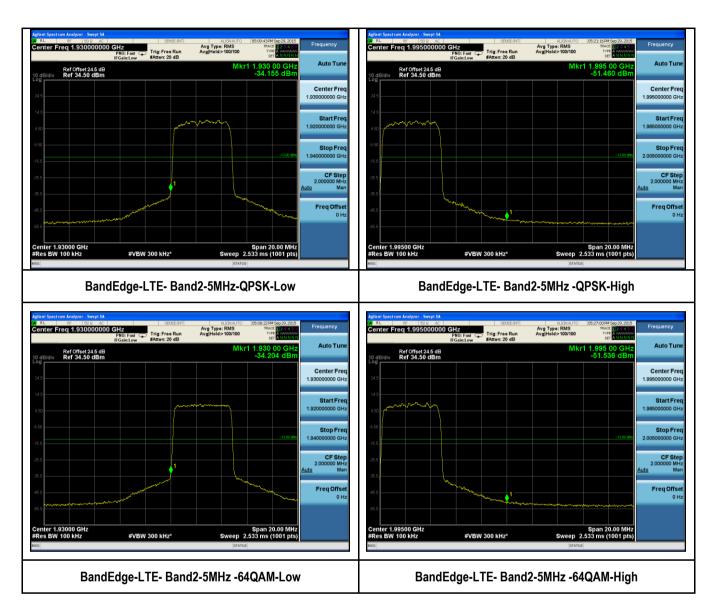
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Q+

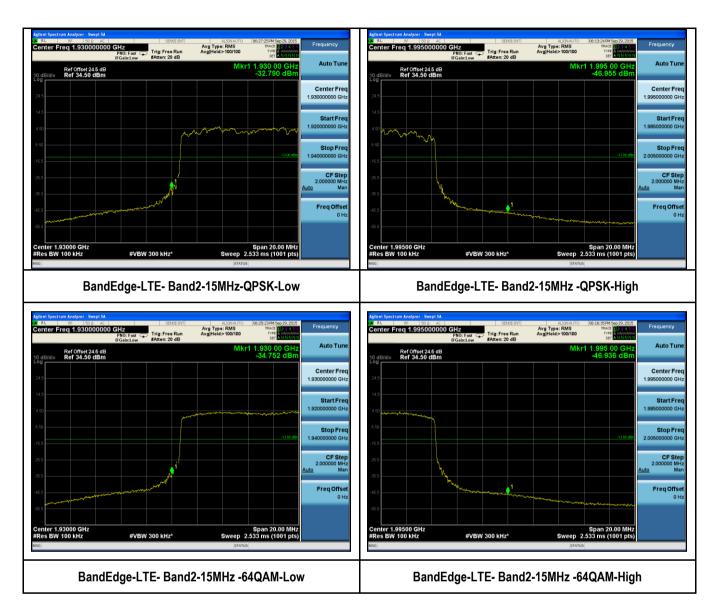


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Q+



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10.5 Spurious Emission below 1GHz

Requirement(s):

Spec	Item	Requirement	Applicable
47CFR27.53	-	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 $43 + 10 \log(P) dB$.	\boxtimes
Test Setup		Semi Anechoic Chamber adio Absorbing Material EUT 0.8m Ground Plane	7
Procedure	2. 3. 4.	n method: The EUT was switched on and allowed to warm up to its normal operating condition. The test was carried out at the selected frequency points obtained from the EUT characteris the emissions, was carried out by rotating the EUT, changing the antenna polarization, and height in the following manner: a. Vertical or horizontal polarisation (whichever gave the higher emission level over EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emission. c. Finally, the antenna height was adjusted to the height that gave the maximum en frequency involved). The center of the substitution antenna (the antenna should be had frequency involved). The center of the substitution antenna should be approximately at the sec center of the transmitter. Feed the substitution antenna at the transmitter end with a signal generator connected to of a non-radiating cable. With the antennas at both ends horizontally polarized, and with tuned to a particular spurious frequency, raise and lower the test antenna to obtain a max spectrum analyzer. Adjust the level of the signal generator output until the previously rec for this set of conditions is obtained. teps 4 were repeated for the next frequency point, until all selected frequency points were m	adjusting the antenna r a full rotation of the mission. alf-wavelength for each same location as the the antenna by means the signal generator kimum reading at the orded maximum reading
Remark	All differer QPSK mo	nt modulation and bandwidth configuration has been verified and only the test da dulation and greatest bandwidth (20MHz) was presented in this report. it = PdBm – [43+ 10 log (Pw)] → 10log(1000 x Pw) - 43 - 10log(Pw) → 30-43 =	ata of worst case with
Result	⊠ Pass	🗆 Fail	

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Radiated Emission Test Results

Test specification	below 1GH	Z			
	Temp (°C):	22			
Environmental Conditions:	Humidity (%)	45	1		
	Atmospheric (mbar):	Atmospheric (mbar): 1008		Pass	
Mains Power:	56VDC PoE	56VDC PoE		F 855	
Tested by:	Chen Ge				
Test Date:	10/01/2015	10/01/2015			
Remarks:	LTE band2, Mid CH, QPS	SK			

Frequency MHz	SG Level dBm	Cable Loss dB	Antenna Gain dBd	Substituted Level dBm	Measuremen t Type	Pol	Hgt cm	Azt Deg	Limit dBm	Margin dB	Pass /Fail
996.89	-60.33	10.78	4.85	-44.70	RMS Max	Н	359.00	357.00	-13.00	-31.70	Pass
186.40	-60.12	11.04	0.95	-48.13	RMS Max	V	100.00	356.00	-13.00	-35.13	Pass
242.88	-63.50	11.25	3.65	-48.60	RMS Max	V	100.00	9.00	-13.00	-35.60	Pass
58.24	-71.6	12.13	0.15	-59.32	RMS Max	V	100.00	291.00	-13.00	-46.32	Pass

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Test specification	below 1GH	Z		
	Temp (°C):	22		
Environmental Conditions:	Humidity (%)	45		
	Atmospheric (mbar):	1008	Result	Pass
Mains Power:	56VDC PoE		rtesuit	1 035
Tested by:	Chen Ge			
Test Date:	10/01/2015			
Remarks:	LTE band2, Mid CH, QPS	SK		

Frequency MHz	SG Level dBm	Cable Loss dB	Antenna Gain dBd	Substituted Level dBm	Measuremen t Type	Pol	Hgt cm	Azt Deg	Limit dBm	Margin dB	Pass /Fail
173.87	-49.69	13.71	-27.38	-63.36	RMS Max	Н	102	356	-13	-50.36	Pass
62.52	-36.84	12.85	-30.21	-54.21	RMS Max	V	100	54	-13	-41.21	Pass
629.46	-72.09	15.76	-19.39	-75.73	RMS Max	V	179	235	-13	-62.73	Pass
376.67	-69.04	14.77	-23.4	-77.67	RMS Max	V	296	82	-13	-64.67	Pass

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10.6 Radiated Spurious Emissions above 1GHz

Requirement(s):

Spec	Item	Requirement			Applicable
47CFR27.53	-		power of any emission outside ttenuated below the transmittin		
Test Setup		Radio Absorbing Material	Semi Anechoic Chamber	Antenna	ectrum Analyzer
Procedure	<u>Substi</u> 1. 2. 3. 4.	The test was carried out at the of the emissions, was carried antenna height in the followin a. Vertical or horizor EUT) was chosen b. The EUT was the c. Finally, the antenn Remove the transmitter and each frequency involved). The the center of the transmitter. Feed the substitution antenn means of a non-radiating ca generator tuned to a particul reading at the spectrum ana maximum reading for this set	Tal polarisation (whichever gave the n. In rotated to the direction that gave na height was adjusted to the height replace it with a substitution anten the center of the substitution anten at the transmitter end with a single. With the antennas at both er lar spurious frequency, raise and lyzer. Adjust the level of the signal	ned from the EUT characterisation of the antenna polarization, and ad the higher emission level over a ful the higher emission level over a ful the that gave the maximum emission. In that gave the maximum emission a (the antenna should be half-wa a should be approximately at the gnal generator connected to the ds horizontally polarized, and wi lower the test antenna to obtain al generator output until the previous the frequency points were measu	justing the II rotation of the on. avelength for same location as antenna by th the signal a maximum iously recorded ired.
Test Date	02	2/13/2014 – 03/17/2014 09/30/2015	Environmental condition	Temperature Relative Humidity Atmospheric Pressure	23ºC 48% 1008mbar
Remark	with Q	PSK modulation and greates	idth configuration has been ve t bandwidth (20MHz) was pre Pw)] ➔ 10log(1000 x Pw) - 4	erified and only the test data c sented in this report.	of worst case
Result	⊠ Pa	ss 🛛 🗆 Fail			
Test Plot 🛛 Yes	s (See be (See be ion Te	,	z)		
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LTE band 4 Low Channel, 20MHz BW, QPSK

Frequency MHz	SG Level dBm	Cable Loss dB	Antenna Gain dBd	Substituted Level dBm	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBm	Margin dB	Pass /Fail
4218.353	-60.85	4.74	8.32	-47.79	RMS Max	Н	125.00	350.00	-13.00	-34.79	Pass
6849.014	-71.95	6.23	9.74	-55.98	RMS Max	V	107.00	243.00	-13.00	-42.98	Pass
2110.337	-59.11	3.74	6.33	-49.04	RMS Max	Н	100.00	29.00	-13.00	-36.04	Pass
8441.214	-71.43	5.81	9.37	-56.25	RMS Max	V	194.0	211.00	-13.00	-43.25	Pass
Remark				GHz; no emissic polarizations wer	ons were detected a re verified.	bove th	e noise floc	or which was a	at least 20dB b	elow the speci	fication

LTE band 4 Mid Channel, 20MHz BW, QPSK

Frequency MHz	SG Level dBm	Cable Loss dB	Antenna Gain dBd	Substituted Level dBm	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBm	Margin dB	Pass /Fail
4266.415	-61.99	4.76	8.32	-48.91	RMS Max	Н	142.00	102.00	-13.00	-35.91	Pass
6935.074	-71.22	6.31	9.65	-55.26	RMS Max	V	145.00	175.00	-13.00	-42.26	Pass
8525.015	-70.74	5.82	9.12	-55.80	RMS Max	V	100.00	89.00	-13.00	-42.80	Pass
4266.415	-61.98	4.76	8.31	-48.91	RMS Max	Н	142.00	102.00	-13.00	-35.91	Pass
Remark				GHz; no emissic polarizations wer	ons were detected a re verified.	bove th	ne noise floo	or which was a	at least 20dB b	elow the speci	fication

LTE band 4 High Channel, 20MHz BW, QPSK

Frequency MHz	SG Level dBm	Cable Loss dB	Antenna Gain dBd	Substituted Level dBm	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBm	Margin dB	Pass /Fail
4310.894	-61.27	4.76	8.32	-48.19	RMS Max	Н	153.00	102.00	-13.00	-35.19	Pass
6934.573	-71.22	6.31	9.65	-55.26	RMS Max	V	146.00	14.00	-13.00	-42.26	Pass
8525.925	-70.94	5.82	9.12	-56.00	RMS Max	V	170.00	174.00	-13.00	-43.00	Pass
Remark				GHz; no emissic	ons were detected a re verified.	bove th	ne noise floc	or which was a	at least 20dB b	elow the speci	fication

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LTE band 2 Low Channel, 20MHz BW, QPSK

Frequency MHz	SG Level dBm	Cable Loss dB	Antenna Gain dBd	Substituted Level dBm	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBm	Margin dB	Pass /Fail
9890.842	-82.34	5.81	9.37	-45.44	RMS Max	Н	V	100	110	-13	Pass
4033.367	-84.88	17.63	15.58	-51.67	RMS Max	V	Н	115	156	-13	Pass
6241.413	-79.21	19.38	13.56	-46.26	RMS Max	Н	V	125	184	-13	Pass
3265.57	-85.85	17.27	14.49	-54.09	RMS Max	V	V	193	271	-13	Pass
Remark				GHz; no emissic polarizations wer	ons were detected a re verified.	bove th	e noise floo	or which was a	at least 20dB b	elow the speci	fication

LTE band 2 Mid Channel, 20MHz BW, QPSK

Frequency MHz	SG Level dBm	Cable Loss dB	Antenna Gain dBd	Substituted Level dBm	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBm	Margin dB	Pass /Fail
9890.497	-82.37	23.22	13.68	-45.47	RMS Max	V	124	111	-13	-32.47	Pass
4100.469	-85.1	17.69	15.24	-52.17	RMS Max	V	148	292	-13	-39.17	Pass
2547.491	-85.75	16.91	14.14	-54.7	RMS Max	V	113	14	-13	-41.70	Pass
9890.497	-82.37	23.22	13.68	-45.47	RMS Max	V	124	111	-13	-32.47	Pass
Remark				GHz; no emission olarizations were	ns were detected al e verified.	pove the	e noise floor	r which was a	t least 20dB be	elow the specifi	ication

LTE band 2 High Channel, 20MHz BW, QPSK

Frequency MHz	SG Level dBm	Cable Loss dB	Antenna Gain dBd	Substituted Level dBm	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBm	Margin dB	Pass /Fail
9858.353	-82.12	23.32	13.6	-45.2	RMS Max	V	115	237	-13	-32.20	Pass
3996.164	-84.85	17.6	15.74	-51.51	RMS Max	Н	118	307	-13	-38.51	Pass
6238.912	-79.25	19.38	13.57	-46.31	RMS Max	V	157	304	-13	-33.31	Pass
Remark				GHz; no emission olarizations were	ns were detected al e verified.	pove the	e noise floor	r which was a	t least 20dB be	elow the specif	ication

LTE Band 4 and LTE Band 2 Mid Channel transmit simultaneously, QPSK

Frequency MHz	SG Level dBm	Cable Loss dB	Antenna Gain dBd	Substituted Level dBm	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBm	Margin dB	Pass /Fail
1955.315	-83.72	15.05	14.75	-53.93	RMS Max	Н	179	270	-13	-40.93	Pass
9857.808	-82.18	23.32	13.6	-45.26	RMS Max	Н	129	108	-13	-32.26	Pass
14458.36	-81.51	24.84	12.45	-44.23	RMS Max	Н	180	205	-13	-31.23	Pass
4031.427	-84.72	17.63	15.59	-51.51	RMS Max	V	118	101	-13	-38.51	Pass
Remark			•	GHz; no emission olarizations were	ns were detected al e verified.	pove the	e noise floor	r which was a	t least 20dB be	elow the specif	ication

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10.7 Frequency Stability

Requirement(s):

Spec	Item	Requirement			Applicable	
47 CFR 2.1055, 47 CFR	-	The frequency stability of the transmitter shall be maintained within ±0.0001 percent (±1 ppm) of the center frequency over a temperature variation of −30 °Celsius to +50 °Celsius at normal supply voltage, and over a variation in the primary supply voltage of 85 percent to 115 percent of the rated supply voltage at a temperature of 20 °Celsius.				
47 CFR 2.1055, 47 CFR 27.54	-		The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.			
Test Setup		Spectrum Analyzer	(EUT		
Test Procedure	The ca 1 2	The equipment is turned transmitter. Measureme applying power to the tra Frequency measuremer	nitter is measured at room temp d on in a "standby" condition for nt of the carrier frequency of the ansmitter. nts are made at 10°C intervals r ovided to allow stabilization of th	one minute before applying po e transmitter is made within on anging from -30°C to +50°C.	ower to the e minute after A period of at	
Test Date	03/10// 09/29//		Environmental condition	Temperature Relative Humidity Atmospheric Pressure	23ºC 48% 1008mbar	
Remark All different modulation and bandwidth configuration has been verified and only the test data of worst case with QPSK modulation and greatest bandwidth (20MHz) at mid channel was presented in this report.						
Result	🖂 Pa	ss 🗆 Fail				
est Data 🛛 🖂 Ye	s	□ N/A				
est Plot 🛛 Yes	s (See be	elow) 🖂 N/A				

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Test Data for LTE band 4:

Voltage (%)	Power (VDC)	Temp. (°)	Frequency (KHz)	Frequency Error (Hz)	Deviation (ppm)
100%		20 (ref)	2132000.012	0	0.000
100%		-30	2132000.001	-11	-0.005
100%		-20	2132000.003	-9	-0.004
100%		-10	2132000.01	-2	-0.001
100%	56	0	2132000.01	-2	-0.001
100%		10	2132000.021	9	0.004
100%		30	2132000.019	7	0.003
100%		40	2132000.015	3	0.001
100%		50	2132000.026	14	0.007
115%	64.4	20	2132000.02	8	0.004
85%	47.6	20	2132000.019	7	0.003

Test Data for LTE band 2:

Voltage (%)	Power (VDC)	Temp. (°)	Frequency (KHz)	Frequency Error (Hz)	Deviation (ppm)
100%		20 (ref)	1960000.008	0	0.000
100%		-30	1960000.042	34	0.013
100%		-20	1960000.034	26	0.008
100%		-10	1960000.023	15	0.009
100%	56	0	1960000.025	17	0.005
100%		10	1960000.018	10	0.002
100%		30	1960000.012	4	0.006
100%		40	1960000.020	12	0.008
100%		50	1960000.024	16	0.012
115%	64.4	20	1960000.031	23	0.013
85%	47.6	20	1960000.033	25	0.013

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Annex A. TEST INSTRUMENT

				1		
Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Radiated Emissions						
EMI Test Receiver	ESIB 40	100179	06/03/2015	1 Year	06/03/2016	>
Bi-Log antenna (30MHz~2GHz)	JB1	A030702	08/15/2015	1 Year	08/15/2016	V
Horn Antenna (1-18GHz)	3115	10SL0059	08/25/2015	1 Year	08/25/2016	2
Horn Antenna (18-40 GHz)	AH-840	101013	08/28/2015	1 Year	08/28/2016	2
Pre-Amplifier	LPA-6-30	11140711	02/19/2015	1 Year	02/19/2016	2
Microwave Preamplifier (18-40 GHz)	PA-840	181251	02/19/2015	1 Year	02/19/2016	1
3 Meters SAC	3M	N/A	08/08/2015	1 Year	08/08/2016	۲
10 Meters SAC	10M	N/A	09/05/2015	1 Year	09/05/2016	۲
RF Conducted Measurement						
Spectrum Analyzer	N9010A	MY51440112	08/20/2015	1 Year	08/20/2016	>
EMI Test Receiver	ESIB 40	100179	06/03/2015	1 Year	06/03/2016	>
Agilent Signal Generator	MXG N5182A	MY47071065	04/06/2015	1 Year	04/06/2016	2

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Annex B. SIEMIC Accreditation

Accreditations	Document	Scope / Remark
ISO 17025 (A2LA)		Please see the documents for the detailed scope
ISO Guide 65 (A2LA)		Please see the documents for the detailed scope
TCB Designation		A1, A2, A3, A4, B1, B2, B3, B4, C
FCC DoC Accreditation		FCC Declaration of Conformity Accreditation
FCC Site Registration		3 meter site
FCC Site Registration		10 meter site
IC Site Registration		3 meter site
IC Site Registration	~	10 meter site
	ħ	Radio & Telecommunications Terminal Equipment: EN45001 – EN ISO/IEC 17025
EU NB	R	Electromagnetic Compatibility: EN45001 – EN ISO/IEC 17025
Singapore iDA CB(Certification Body)		Phase I, Phase II
Vietnam MIC CAB Accreditation	ħ	Please see the document for the detailed scope
	R	(Phase II) OFCA Foreign Certification Body for Radio and Telecom
Hong Kong OFCA	R	(Phase I) Conformity Assessment Body for Radio and Telecom
		Radio: Scope A – All Radio Standard Specification in Category I
Industry Canada CAB		Telecom: CS-03 Part I, II, V, VI, VII, VIII

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Japan Recognized Certification Body Designation	1 1 1	 Radio: A1. Terminal equipment for purpose of calling Telecom: B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law
		EMI: KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMIEMS: KCC Notice 2008-38, RRL Notice 2008-4: CA Procedures for EMS KN24, KN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS
Korea CAB Accreditation	ħ	Radio: RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10, RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-21, RRL Notice 2007- 80, RRL Notice 2004-68
		Telecom: President Notice 20664, RRL Notice 2007-30, RRL Notice 2008-7 with attachments 1, 3, 5, 6; President Notice 20664, RRL Notice 2008-7 with attachment 4
Taiwan NCC CAB Recognition	Ā	LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08
Taiwan BSMI CAB Recognition	A	CNS 13438
Japan VCCI	Z	R-3083: Radiation 3 meter site C-3421: Main Ports Conducted Interference Measurement T-1597: Telecommunication Ports Conducted Interference Measurement
		EMC: AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4
Australia CAB Regocnition	ß	Radio communications: AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS 4769.2, AS/NZS 4770, AS/NZS 4771
		Telecommunications: AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06 AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043.2:06, AS/ACIF S60950.1
Australia NATA Recognition	A	AS/ACIF S002, AS/ACIF S003, AS/ACIF S004, AS/ACIF S006, AS/ACIF S016,AS/ACIF S031, AS/ACIF S038, AS/ACIF S040, AS/ACIF S041, AS/ACIF S043.2

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