

RF Test Report

Project Number: 4975321 **Proposal:** SUW-202108001433
Report Number: 4975321EMC16 **Revision Level:** 2
Client: Deere & Company

Equipment Under Test: JDLINK™ M Modem - 4G

Model Number: MA4M

FCC ID: OV5-MA4M

IC ID: 11137A-MA4M

Applicable Standards: ANSI C63.26:2015

Part 2, Part 22(H), Part 24(E), Part 27, Part 90

RSS-130, Issue 2; RSS-132 Issue 3

RSS-133 Issue 6; RSS-139, Issue 4

RSS-199, Issue 3, RSS-GEN, Issue 5

Report issued on: 20 February 2023

Test Result: Compliant



FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

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TABLE OF CONTENTS

1	SUMMARY OF TEST RESULTS.....	4
1.1	MODIFICATIONS REQUIRED TO COMPLIANCE	4
2	GENERAL INFORMATION.....	5
2.1	CLIENT INFORMATION.....	5
2.2	TEST LABORATORY	5
2.3	GENERAL INFORMATION OF EUT	5
2.4	DESCRIPTION OF TEST MODES.....	5
3	RF OUTPUT POWER / EFFECTIVE RADIATED POWER.....	6
3.1	TEST RESULT.....	6
3.2	TEST METHOD.....	6
3.3	TEST SITE	6
3.4	TEST EQUIPMENT	6
3.5	TEST DATA - LTE BAND 2.....	7
3.6	TEST DATA - LTE BAND 4.....	10
3.7	TEST DATA - LTE BAND 5.....	13
3.8	TEST DATA - LTE BAND 7.....	15
3.9	TEST DATA - LTE BAND 12.....	17
3.10	TEST DATA - LTE BAND 13.....	19
3.11	TEST DATA - LTE BAND 26A	20
3.12	TEST DATA - LTE BAND 38.....	22
3.13	TEST DATA - LTE BAND 41.....	24
3.14	TEST DATA - LTE BAND 66.....	26
4	PEAK TO AVERAGE RATIO	29
4.1	TEST RESULT.....	29
4.2	TEST METHOD.....	29
4.3	TEST SITE	29
4.4	TEST EQUIPMENT	29
4.5	TEST DATA – LTE BAND 2.....	30
4.6	TEST DATA – LTE BAND 4.....	31
4.7	TEST DATA – LTE BAND 5.....	31
4.8	TEST DATA – LTE BAND 7.....	32
4.9	TEST DATA – LTE BAND 12.....	32
4.10	TEST DATA – LTE BAND 13.....	32
4.11	TEST DATA – LTE BAND 26A.....	33
4.12	TEST DATA – LTE BAND 38.....	33
4.13	TEST DATA – LTE BAND 41	34
4.14	TEST DATA – LTE BAND 66.....	34
5	OCCUPIED BANDWIDTH	35
5.1	TEST RESULT.....	35
5.2	TEST METHOD.....	35
5.3	TEST SITE	35
5.4	TEST EQUIPMENT	35
5.5	TEST DATA – LTE BAND 2.....	36
5.6	TEST DATA – LTE BAND 4.....	37
5.7	TEST DATA – LTE BAND 5.....	37
5.8	TEST DATA – LTE BAND 7.....	38
5.9	TEST DATA – LTE BAND 12.....	38
5.10	TEST DATA – LTE BAND 13.....	38
5.11	TEST DATA – LTE BAND 26A.....	39
5.12	TEST DATA – LTE BAND 38.....	39

5.13	TEST DATA – LTE BAND 41	40
5.14	TEST DATA – LTE BAND 66	40
6	BAND EDGE AND CONDUCTED SPURIOUS EMISSIONS	41
6.1	TEST RESULT	41
6.2	TEST METHOD	41
6.3	TEST SITE	41
6.4	TEST EQUIPMENT	41
6.5	TEST DATA - BAND EDGE – LTE BAND 2	42
6.6	TEST DATA - BAND EDGE – LTE BAND 4	46
6.7	TEST DATA - BAND EDGE – LTE BAND 5	50
6.8	TEST DATA - BAND EDGE – LTE BAND 7	53
6.9	TEST DATA - BAND EDGE – LTE BAND 12	56
6.10	TEST DATA - BAND EDGE – LTE BAND 13	59
6.11	TEST DATA - BAND EDGE – LTE BAND 26A	60
6.12	TEST DATA - BAND EDGE – LTE BAND 38	62
6.13	TEST DATA - BAND EDGE – LTE BAND 41	65
6.14	TEST DATA - BAND EDGE – LTE BAND 66	68
6.15	TEST DATA – SPURIOUS EMISSION - LTE BAND 2	72
6.16	TEST DATA – SPURIOUS EMISSION - LTE BAND 4	73
6.17	TEST DATA – SPURIOUS EMISSION - LTE BAND 5	74
6.18	TEST DATA – SPURIOUS EMISSION - LTE BAND 7	75
6.19	TEST DATA – SPURIOUS EMISSION - LTE BAND 12	76
6.20	TEST DATA – SPURIOUS EMISSION - LTE BAND 13	77
6.21	TEST DATA – SPURIOUS EMISSION - LTE BAND 26A	78
6.22	TEST DATA – SPURIOUS EMISSION - LTE BAND 38	79
6.23	TEST DATA – SPURIOUS EMISSION - LTE BAND 41	80
6.24	TEST DATA – SPURIOUS EMISSION - LTE BAND 66	81
7	RADIATED SPURIOUS EMISSIONS	82
7.1	TEST RESULT	82
7.2	TEST METHOD	82
7.3	TEST SITE	82
7.4	TEST EQUIPMENT	83
7.5	TEST DATA – LTE BAND 2	84
7.6	TEST DATA – LTE BAND 4	93
7.7	TEST DATA – LTE BAND 5	102
7.8	TEST DATA – LTE BAND 7	111
7.9	TEST DATA – LTE BAND 12	120
7.10	TEST DATA – LTE BAND 13	126
7.11	TEST DATA – LTE BAND 26A	134
7.12	TEST DATA – LTE BAND 38	140
7.13	TEST DATA – LTE BAND 41	149
7.14	TEST DATA – LTE BAND 66	160
8	FREQUENCY STABILITY	169
8.1	TEST RESULT	169
8.2	TEST METHOD	169
8.3	TEST SITE	169
8.4	TEST EQUIPMENT	169
8.5	TEST DATA	170
9	MEASUREMENT UNCERTAINTY	180
10	REVISION HISTORY	181

1 Summary of Test Results

Reference Sections		Test Description	Test Condition	Test Result
FCC	ISED			
2.1046	RSS-GEN (6.12)	Conducted Output Power	Conducted	Compliant
24.232(d) 27.50(d)(5)	RSS-130 (4.6) RSS-132 (5.4) RSS-133 (6.4) RSS-139 (5.5) RSS-199 (4.4)	Peak-to-Average Ratio		Compliant
2.1049(h) 22.917(b) 24.238(b) 27.53(h)(m)	RSS-GEN (6.7) RSS-133 (2.3) RSS-199 (4.2)	Occupied Bandwidth		Reported
2.1051 22.917(a)/(b) 24.238(a)/(b) 27.53(c) 27.53(g)/(h) 27.53(m)(4) 90.691	RSS-130 (4.7) RSS-132 (5.5) RSS-133 (6.5) RSS-139 (5.6) RSS-199 (4.5)	Band Edge / Conducted Spurious Emissions		Compliant
22.913(a)(5) 27.50(b)(9) 27.50(c)(9) 90.635	--	Effective Radiated Power	Radiated	Compliant
2.1046(a) 24.232(c) 27.50(d)(4) 27.50(h)(2)	RSS-130 (4.6) RSS-132 (5.4) RSS-133 (6.4) RSS-139 (5.5) RSS-199 (4.4)	Equivalent Isotropically Radiated Power		Compliant
2.1053 22.917(a)/(b) 24.238(a)/(b) 27.53(c) 27.53(g)/(h) 27.53(m)(4) 90.691	RSS-GEN (6.13) RSS-130 (4.7) RSS-132 (5.5) RSS-133 (6.5.1) RSS-139 (5.6) RSS-199 (4.5)	Radiated Spurious Emissions		Compliant
2.1055 22.355 24.235 27.54 90.213	RSS-GEN (6.11) RSS-130 (4.5) RSS-132 (5.3) RSS-133 (6.3) RSS-139 (5.4) RSS-199 (4.3)	Frequency Stability		Compliant

1.1 Modifications Required to Compliance

None

2 General Information

2.1 Client Information

Name: Deere & Company dba John Deere Intelligent Solutions
 Address: 9505 Northpark Drive
 City, State, Zip, Country: Urbandale, IA 50131 USA

2.2 Test Laboratory

Name: SGS North America, Inc.
 Address: 620 Old Peachtree Road NW, Suite 100
 City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
 Type of lab: Testing Laboratory
 Certificate Number: 3212.01
 Designation Number: US1126
 CAB Identifier: US0186

2.3 General Information of EUT

Product Description: JDLINK™ M Modem - 4G
 Model Number: MA4M
 Serial Number: SUWEM2210000502

Modes of Operation: LTE Bands 2/4/5/7/12/13/26a/38/41/66

Antenna Type: Internal – Band 2 (3.2dBi); Band 4 (4.1dBi); Band 5 (0dBi); Band 7 (4.2dBi);
 Band 12 (0dBi); Band 13 (0.5dBi); Band 26 (0dBi); Band 38 (4.2dBi); Band
 41 (4.2dBi); Band 66 (4.1dBi)
 IMEI: 351072640039065

Sample Received Date: 22 October 2022
 Dates of testing: 01 November – 03 December 2022

2.4 Description of Test Modes

The EUT was tested under normal operating conditions. A Rhode & Schwarz test SIM was installed in the unit with a base station simulator directly connect to the cellular port for conducted measurements and over the air for radiated measurements. The base station simulator was set to control the EUT to output maximum power and operate in LTE Bands 2, 4, 5, 7, 12, 13, 26, 38, 41, and 66 on low, middle, and high channels.

3 RF Output Power / Effective Radiated Power

3.1 Test Result

Test Description	Specification		Test Result
	FCC	ISED	
RF Output Power	2.1046	RSS-GEN (6.12)	Compliant
Effective Radiated Power	22.913(a)(5) 27.50(b)(9) 27.50(c)(9) 90.635	--	Compliant
Effective Isotropic Radiated Power	2.1046(a) 24.232(c) 27.50(d)(4) 27.50(h)(2)	RSS-130 (4.6) RSS-132 (5.4) RSS-133 (6.4) RSS-139 (5.5) RSS-199 (4.4)	Compliant

3.2 Test Method

A radio link was established between EUT and Radio Communication Tester. The output power of the EUT was set to maximum value by using the maximum power setting on the Radio Communications Tester. The CMW500 was used to measure the output power.

The measurements were conducted at the low, middle, and high channel.

For ERP/EIRP calculations, the antenna gain was added to the conducted measurements.

3.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 22.8 °C

Relative Humidity: 41.1 %

Atmospheric Pressure: 97.8 kPa

3.4 Test Equipment

Test End Date: 28-Nov-2022

Tester: AB

Equipment	Model	Manufacturer	Asset	Cal Date	Cal Due Date
WIDEBAND RADIO COMMUNICATION TESTER	CMW500	ROHDE & SCHWARZ	B094874	13-Jan-2021	13-Jan-2023
RF CABLE SMA TO SMA, 0.01-40GHZ	084-0505-059	TELEDYNE STORM MICROWAVE	20109	16-Mar-2022	16-Mar-2023
RF CABLE (TS8997)	141	HUBER & SUHNER	B095588	5-Jul-2022	5-Jul-2023
ATTENUATOR, 10DB (TS8997)	10DB	ROHDE & SCHWARZ	B095593	12-May-2022	12-May-2023
POWER SPLITTER	ZFRSC-123-S+	MINI-CIRCUITS	B101739	13-Jul-2022	13-Jul-2023
RF CABLE SMA TO SMA, 0.01-40GHZ	084-0505-020	TELEDYNE STORM MICROWAVE	20105	16-Mar-2022	16-Mar-2023
EXA SIGNAL ANALYZER	N9010B	KEYSIGHT	1245605	17-Nov-2022	17-Nov-2023
TSTPASS SWITCHBOX	SB1	TSTPASS	20168	CNR	CNR

Software Profile:

TESTPass Version: 1.0.0, build: 2020.11.15.01

3.5 Test Data - LTE Band 2

Max Power: 23.37dBm

Test Band: 2 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.18	22.86	22.97	/	3.20	26.38	26.06	26.17	33.01	PASS
		2	23.36	22.90	22.93	/	3.20	26.56	26.10	26.13	33.01	PASS
		5	23.31	23.02	22.90	/	3.20	26.51	26.22	26.10	33.01	PASS
	3	0	23.22	22.94	23.00	/	3.20	26.42	26.14	26.20	33.01	PASS
		2	23.26	22.97	23.00	/	3.20	26.46	26.17	26.20	33.01	PASS
		3	23.23	23.11	22.82	/	3.20	26.43	26.31	26.02	33.01	PASS
16QAM	6	0	22.18	22.03	21.77	/	3.20	25.38	25.23	24.97	33.01	PASS
		2	22.10	22.33	22.20	/	3.20	25.30	25.53	25.40	33.01	PASS
	1	2	22.78	22.46	22.30	/	3.20	25.98	25.66	25.50	33.01	PASS
		5	22.43	22.32	22.29	/	3.20	25.63	25.52	25.49	33.01	PASS
		0	22.56	22.03	22.04	/	3.20	25.76	25.23	25.24	33.01	PASS
	3	2	22.61	22.12	22.06	/	3.20	25.81	25.32	25.26	33.01	PASS
		3	22.51	22.08	22.11	/	3.20	25.71	25.28	25.31	33.01	PASS
		6	0	21.47	21.10	20.85	/	3.20	24.67	24.30	24.05	33.01

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 2 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.21	23.07	22.92	/	3.20	26.41	26.27	26.12	33.01	PASS
		7	23.12	23.02	22.71	/	3.20	26.32	26.22	25.91	33.01	PASS
		14	23.03	22.90	22.69	/	3.20	26.23	26.10	25.89	33.01	PASS
	8	0	21.99	21.97	21.96	/	3.20	25.19	25.17	25.16	33.01	PASS
		4	22.02	22.01	21.89	/	3.20	25.22	25.21	25.09	33.01	PASS
		7	21.99	21.98	21.87	/	3.20	25.19	25.18	25.07	33.01	PASS
16QAM	15	0	22.12	21.99	21.97	/	3.20	25.32	25.19	25.17	33.01	PASS
		2	22.19	22.43	22.39	/	3.20	25.39	25.63	25.59	33.01	PASS
	1	7	22.23	22.38	22.32	/	3.20	25.43	25.58	25.52	33.01	PASS
		14	22.02	22.27	22.22	/	3.20	25.22	25.47	25.42	33.01	PASS
		0	21.05	20.92	20.90	/	3.20	24.25	24.12	24.10	33.01	PASS
	8	4	20.99	20.98	20.84	/	3.20	24.19	24.18	24.04	33.01	PASS
		7	21.00	20.93	20.82	/	3.20	24.20	24.13	24.02	33.01	PASS
		15	0	21.12	20.92	21.01	/	3.20	24.32	24.12	24.21	33.01

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 2 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.09	22.84	22.83	/	3.20	26.29	26.04	26.03	33.01	PASS
		13	23.04	22.88	22.73	/	3.20	26.24	26.08	25.93	33.01	PASS
		24	22.75	22.80	22.62	/	3.20	25.95	26.00	25.82	33.01	PASS
	12	0	21.96	22.03	22.00	/	3.20	25.16	25.23	25.20	33.01	PASS
		6	22.06	21.97	21.87	/	3.20	25.26	25.17	25.07	33.01	PASS
		13	22.03	22.01	21.91	/	3.20	25.23	25.21	25.11	33.01	PASS
25	0	22.06	21.89	21.90	/	3.20	25.26	25.09	25.10	33.01	PASS	
16QAM	1	0	22.24	22.36	21.51	/	3.20	25.44	25.56	24.71	33.01	PASS
		13	22.16	22.42	21.30	/	3.20	25.36	25.62	24.50	33.01	PASS
		24	22.03	22.33	21.60	/	3.20	25.23	25.53	24.80	33.01	PASS
	12	0	21.00	21.00	20.94	/	3.20	24.20	24.20	24.14	33.01	PASS
		6	21.02	20.96	20.93	/	3.20	24.22	24.16	24.13	33.01	PASS
		13	20.95	21.00	20.98	/	3.20	24.15	24.20	24.18	33.01	PASS
	25	0	21.12	21.05	20.99	/	3.20	24.32	24.25	24.19	33.01	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 2 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.94	22.64	22.84	/	3.20	26.14	25.84	26.04	33.01	PASS
		25	23.37	23.10	22.96	/	3.20	26.57	26.30	26.16	33.01	PASS
		49	23.21	22.52	22.51	/	3.20	26.41	25.72	25.71	33.01	PASS
	25	0	22.03	21.89	21.89	/	3.20	25.23	25.09	25.09	33.01	PASS
		13	22.11	21.95	21.93	/	3.20	25.31	25.15	25.13	33.01	PASS
		25	22.06	21.84	21.69	/	3.20	25.26	25.04	24.89	33.01	PASS
50	0	22.05	21.85	21.84	/	3.20	25.25	25.05	25.04	33.01	PASS	
16QAM	1	0	22.18	22.53	22.37	/	3.20	25.38	25.73	25.57	33.01	PASS
		25	22.84	23.05	22.97	/	3.20	26.04	26.25	26.17	33.01	PASS
		49	21.96	22.32	21.79	/	3.20	25.16	25.52	24.99	33.01	PASS
	25	0	21.24	20.83	20.97	/	3.20	24.44	24.03	24.17	33.01	PASS
		13	21.34	20.88	21.13	/	3.20	24.54	24.08	24.33	33.01	PASS
		25	21.33	20.76	20.89	/	3.20	24.53	23.96	24.09	33.01	PASS
50	0	20.93	20.89	20.89	/	3.20	24.13	24.09	24.09	33.01	PASS	

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 2 _ 15MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	22.74	22.42	22.57	/	3.20	25.94	25.62	25.77	33.01	PASS	
		38	22.91	22.90	22.66	/	3.20	26.11	26.10	25.86	33.01	PASS	
		74	22.52	22.30	22.41	/	3.20	25.72	25.50	25.61	33.01	PASS	
	36	0	21.88	21.81	21.72	/	3.20	25.08	25.01	24.92	33.01	PASS	
		18	21.95	21.94	21.70	/	3.20	25.15	25.14	24.90	33.01	PASS	
		39	21.79	21.77	21.67	/	3.20	24.99	24.97	24.87	33.01	PASS	
	75	0	21.86	21.73	21.70	/	3.20	25.06	24.93	24.90	33.01	PASS	
			22.17	22.80	21.86	/	3.20	25.37	26.00	25.06	33.01	PASS	
		38	22.00	22.18	22.23	/	3.20	25.20	25.38	25.43	33.01	PASS	
16QAM	1	74	21.48	22.40	21.67	/	3.20	24.68	25.60	24.87	33.01	PASS	
		36	0	20.93	20.88	20.85	/	3.20	24.13	24.08	24.05	33.01	PASS
			18	21.02	20.91	20.82	/	3.20	24.22	24.11	24.02	33.01	PASS
	39		20.76	20.86	20.79	/	3.20	23.96	24.06	23.99	33.01	PASS	
	75	0	20.84	20.83	20.79	/	3.20	24.04	24.03	23.99	33.01	PASS	

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 2 _ 20MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	22.53	22.70	22.54	/	3.20	25.73	25.90	25.74	33.01	PASS	
		50	23.13	23.09	22.77	/	3.20	26.33	26.29	25.97	33.01	PASS	
		99	22.37	22.52	22.33	/	3.20	25.57	25.72	25.53	33.01	PASS	
	50	0	21.97	21.69	21.72	/	3.20	25.17	24.89	24.92	33.01	PASS	
		25	21.86	21.84	21.59	/	3.20	25.06	25.04	24.79	33.01	PASS	
		50	21.77	21.70	21.61	/	3.20	24.97	24.90	24.81	33.01	PASS	
	100	0	21.81	21.73	21.68	/	3.20	25.01	24.93	24.88	33.01	PASS	
			22.11	21.75	21.73	/	3.20	25.31	24.95	24.93	33.01	PASS	
		50	23.12	22.02	22.43	/	3.20	26.32	25.22	25.63	33.01	PASS	
16QAM	1	99	21.95	21.58	21.46	/	3.20	25.15	24.78	24.66	33.01	PASS	
		50	0	20.99	20.74	20.88	/	3.20	24.19	23.94	24.08	33.01	PASS
			25	20.89	20.90	20.86	/	3.20	24.09	24.10	24.06	33.01	PASS
	50		20.70	20.86	20.83	/	3.20	23.90	24.06	24.03	33.01	PASS	
	100	0	20.86	20.87	20.85	/	3.20	24.06	24.07	24.05	33.01	PASS	

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3.6 Test Data - LTE Band 4

Max Power: 23.78dBm

Test Band: 4 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.36	23.40	23.28	/	4.10	27.46	27.50	27.38	30.00	PASS
		2	23.78	23.32	23.57	/	4.10	27.88	27.42	27.67	30.00	PASS
		5	23.77	23.28	23.40	/	4.10	27.87	27.38	27.50	30.00	PASS
	3	0	23.42	23.26	23.04	/	4.10	27.52	27.36	27.14	30.00	PASS
		2	23.55	23.25	23.22	/	4.10	27.65	27.35	27.32	30.00	PASS
		3	23.33	23.17	23.41	/	4.10	27.43	27.27	27.51	30.00	PASS
16QAM	6	0	22.24	22.17	22.21	/	4.10	26.34	26.27	26.31	30.00	PASS
			22.07	22.66	22.33	/	4.10	26.17	26.76	26.43	30.00	PASS
	1	2	22.13	22.60	22.48	/	4.10	26.23	26.70	26.58	30.00	PASS
		5	22.25	22.37	22.37	/	4.10	26.35	26.47	26.47	30.00	PASS
		0	22.53	22.24	22.48	/	4.10	26.63	26.34	26.58	30.00	PASS
	3	2	22.01	22.53	22.32	/	4.10	26.11	26.63	26.42	30.00	PASS
		3	22.18	22.16	22.35	/	4.10	26.28	26.26	26.45	30.00	PASS
		6	0	20.98	21.14	21.18	/	4.10	25.08	25.24	25.28	30.00

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 4 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.25	23.19	23.57	/	4.10	27.35	27.29	27.67	30.00	PASS
		7	23.49	23.19	23.26	/	4.10	27.59	27.29	27.36	30.00	PASS
		14	23.39	23.06	23.15	/	4.10	27.49	27.16	27.25	30.00	PASS
	8	0	22.32	22.29	22.33	/	4.10	26.42	26.39	26.43	30.00	PASS
		4	22.39	22.34	22.14	/	4.10	26.49	26.44	26.24	30.00	PASS
		7	22.39	22.24	22.15	/	4.10	26.49	26.34	26.25	30.00	PASS
16QAM	15	0	22.36	22.33	22.38	/	4.10	26.46	26.43	26.48	30.00	PASS
			22.60	22.20	22.25	/	4.10	26.70	26.30	26.35	30.00	PASS
	1	7	22.75	22.65	22.26	/	4.10	26.85	26.75	26.36	30.00	PASS
		14	22.72	22.18	22.26	/	4.10	26.82	26.28	26.36	30.00	PASS
		0	21.23	21.21	21.23	/	4.10	25.33	25.31	25.33	30.00	PASS
	8	4	21.21	21.15	21.20	/	4.10	25.31	25.25	25.30	30.00	PASS
		7	21.18	21.21	21.20	/	4.10	25.28	25.31	25.30	30.00	PASS
		15	0	21.32	21.34	21.25	/	4.10	25.42	25.44	25.35	30.00

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 4 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.01	23.04	23.21	/	4.10	27.11	27.14	27.31	30.00	PASS
		13	23.40	23.07	22.94	/	4.10	27.50	27.17	27.04	30.00	PASS
		24	23.30	23.10	22.92	/	4.10	27.40	27.20	27.02	30.00	PASS
	12	0	22.28	22.25	22.09	/	4.10	26.38	26.35	26.19	30.00	PASS
		6	22.39	22.28	22.22	/	4.10	26.49	26.38	26.32	30.00	PASS
		13	22.31	22.19	22.28	/	4.10	26.41	26.29	26.38	30.00	PASS
25	0	22.35	22.20	22.30	/	4.10	26.45	26.30	26.40	30.00	PASS	
		22.72	22.55	21.88	/	4.10	26.82	26.65	25.98	30.00	PASS	
16QAM	1	13	22.38	22.64	22.02	/	4.10	26.48	26.74	26.12	30.00	PASS
		24	22.48	22.72	21.88	/	4.10	26.58	26.82	25.98	30.00	PASS
		0	21.33	21.10	21.28	/	4.10	25.43	25.20	25.38	30.00	PASS
	12	6	21.44	21.11	21.31	/	4.10	25.54	25.21	25.41	30.00	PASS
		13	21.49	20.94	21.36	/	4.10	25.59	25.04	25.46	30.00	PASS
		25	0	21.29	21.10	21.29	/	4.10	25.39	25.20	25.39	30.00

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 4 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.31	22.91	23.49	/	4.10	27.41	27.01	27.59	30.00	PASS
		25	23.56	23.26	23.41	/	4.10	27.66	27.36	27.51	30.00	PASS
		49	23.50	23.03	23.09	/	4.10	27.60	27.13	27.19	30.00	PASS
	25	0	22.32	22.15	22.12	/	4.10	26.42	26.25	26.22	30.00	PASS
		13	22.35	22.16	22.26	/	4.10	26.45	26.26	26.36	30.00	PASS
		25	22.23	22.09	22.24	/	4.10	26.33	26.19	26.34	30.00	PASS
50	0	22.24	22.11	22.24	/	4.10	26.34	26.21	26.34	30.00	PASS	
		22.05	22.41	22.52	/	4.10	26.15	26.51	26.62	30.00	PASS	
16QAM	1	25	23.05	22.39	23.17	/	4.10	27.15	26.49	27.27	30.00	PASS
		49	22.04	22.52	22.64	/	4.10	26.14	26.62	26.74	30.00	PASS
		0	21.19	21.13	21.21	/	4.10	25.29	25.23	25.31	30.00	PASS
	25	13	21.46	21.22	21.34	/	4.10	25.56	25.32	25.44	30.00	PASS
		25	21.33	21.15	21.33	/	4.10	25.43	25.25	25.43	30.00	PASS
		50	0	21.18	21.18	21.17	/	4.10	25.28	25.28	25.27	30.00

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 4 _ 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.05	22.86	23.15	/	4.10	27.15	26.96	27.25	30.00	PASS
		38	23.04	22.89	23.14	/	4.10	27.14	26.99	27.24	30.00	PASS
		74	22.77	22.91	23.05	/	4.10	26.87	27.01	27.15	30.00	PASS
	36	0	22.25	21.95	22.05	/	4.10	26.35	26.05	26.15	30.00	PASS
		18	22.32	21.99	22.05	/	4.10	26.42	26.09	26.15	30.00	PASS
		39	22.05	22.05	22.00	/	4.10	26.15	26.15	26.10	30.00	PASS
16QAM	1	0	22.04	22.05	22.04	/	4.10	26.14	26.15	26.14	30.00	PASS
			22.49	21.86	22.33	/	4.10	26.59	25.96	26.43	30.00	PASS
		38	22.38	22.33	22.09	/	4.10	26.48	26.43	26.19	30.00	PASS
	36	74	21.47	22.59	22.60	/	4.10	25.57	26.69	26.70	30.00	PASS
		0	21.26	21.03	21.17	/	4.10	25.36	25.13	25.27	30.00	PASS
		18	21.26	21.08	21.27	/	4.10	25.36	25.18	25.37	30.00	PASS
75	39	21.10	21.01	21.12	/	4.10	25.20	25.11	25.22	30.00	PASS	
	0	21.09	21.16	21.21	/	4.10	25.19	25.26	25.31	30.00	PASS	

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 4 _ 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.93	22.96	23.09	/	4.10	27.03	27.06	27.19	30.00	PASS
		50	23.29	22.98	23.31	/	4.10	27.39	27.08	27.41	30.00	PASS
		99	22.63	23.14	23.20	/	4.10	26.73	27.24	27.30	30.00	PASS
	50	0	22.18	22.02	22.08	/	4.10	26.28	26.12	26.18	30.00	PASS
		25	22.11	22.01	22.25	/	4.10	26.21	26.11	26.35	30.00	PASS
		50	21.97	22.01	22.09	/	4.10	26.07	26.11	26.19	30.00	PASS
16QAM	1	100	22.11	21.91	22.12	/	4.10	26.21	26.01	26.22	30.00	PASS
			22.43	22.10	22.20	/	4.10	26.53	26.20	26.30	30.00	PASS
		50	23.34	22.17	22.85	/	4.10	27.44	26.27	26.95	30.00	PASS
	50	99	22.68	22.10	22.01	/	4.10	26.78	26.20	26.11	30.00	PASS
		0	21.04	21.09	21.13	/	4.10	25.14	25.19	25.23	30.00	PASS
		25	21.09	20.98	21.29	/	4.10	25.19	25.08	25.39	30.00	PASS
100	50	20.92	21.08	21.13	/	4.10	25.02	25.18	25.23	30.00	PASS	
	0	21.07	20.88	21.19	/	4.10	25.17	24.98	25.29	30.00	PASS	

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3.7 Test Data - LTE Band 5

Max Power: 23.29dBm

Test Band: 5 _ 1.4MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	23.02	22.93	23.12	-2.15	0.00	20.87	20.78	20.97	38.45	PASS	
		2	23.16	22.96	22.86	-2.15	0.00	21.01	20.81	20.71	38.45	PASS	
		5	23.03	22.87	22.60	-2.15	0.00	20.88	20.72	20.45	38.45	PASS	
	3	0	23.15	22.94	22.75	-2.15	0.00	21.00	20.79	20.60	38.45	PASS	
		2	23.19	22.93	22.75	-2.15	0.00	21.04	20.78	20.60	38.45	PASS	
		3	23.15	22.87	22.64	-2.15	0.00	21.00	20.72	20.49	38.45	PASS	
16QAM	6	0	22.20	21.97	21.94	-2.15	0.00	20.05	19.82	19.79	38.45	PASS	
			22.09	22.46	22.44	-2.15	0.00	19.94	20.31	20.29	38.45	PASS	
		2	22.28	22.84	22.30	-2.15	0.00	20.13	20.69	20.15	38.45	PASS	
	1	5	22.20	22.81	22.10	-2.15	0.00	20.05	20.66	19.95	38.45	PASS	
		3	0	22.46	22.58	22.03	-2.15	0.00	20.31	20.43	19.88	38.45	PASS
			2	22.50	22.57	21.88	-2.15	0.00	20.35	20.42	19.73	38.45	PASS
	3		22.46	22.49	21.71	-2.15	0.00	20.31	20.34	19.56	38.45	PASS	
	6	0	21.30	21.44	21.01	-2.15	0.00	19.15	19.29	18.86	38.45	PASS	

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)
 3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 5 _ 3MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	23.11	22.82	23.29	-2.15	0.00	20.96	20.67	21.14	38.45	PASS	
		7	23.25	22.91	22.97	-2.15	0.00	21.10	20.76	20.82	38.45	PASS	
		14	23.11	22.86	22.63	-2.15	0.00	20.96	20.71	20.48	38.45	PASS	
	8	0	22.12	21.94	22.03	-2.15	0.00	19.97	19.79	19.88	38.45	PASS	
		4	22.08	21.96	21.83	-2.15	0.00	19.93	19.81	19.68	38.45	PASS	
		7	22.07	21.94	21.77	-2.15	0.00	19.92	19.79	19.62	38.45	PASS	
16QAM	15	0	22.13	21.94	21.97	-2.15	0.00	19.98	19.79	19.82	38.45	PASS	
			21.98	22.58	22.47	-2.15	0.00	19.83	20.43	20.32	38.45	PASS	
		7	22.34	22.52	22.47	-2.15	0.00	20.19	20.37	20.32	38.45	PASS	
	1	14	22.47	22.35	21.79	-2.15	0.00	20.32	20.20	19.64	38.45	PASS	
		8	0	21.28	21.33	21.54	-2.15	0.00	19.13	19.18	19.39	38.45	PASS
			4	21.34	21.20	21.55	-2.15	0.00	19.19	19.05	19.40	38.45	PASS
	7		21.51	21.15	21.03	-2.15	0.00	19.36	19.00	18.88	38.45	PASS	
	15	0	21.28	20.97	21.05	-2.15	0.00	19.13	18.82	18.90	38.45	PASS	

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)
 3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 5 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.79	22.70	22.86	-2.15	0.00	20.64	20.55	20.71	38.45	PASS
		13	22.91	22.62	22.56	-2.15	0.00	20.76	20.47	20.41	38.45	PASS
		24	22.77	22.57	22.44	-2.15	0.00	20.62	20.42	20.29	38.45	PASS
	12	0	21.83	21.80	21.87	-2.15	0.00	19.68	19.65	19.72	38.45	PASS
		6	21.96	21.84	21.80	-2.15	0.00	19.81	19.69	19.65	38.45	PASS
		13	21.90	21.74	21.74	-2.15	0.00	19.75	19.59	19.59	38.45	PASS
25	0	21.81	21.73	21.81	-2.15	0.00	19.66	19.58	19.66	38.45	PASS	

Note:

- 1) dBd = dBi - 2.15
- 2) EIRP = Conducted output power + Antenna gain (dBi)
- 3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 5 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.88	22.60	22.59	-2.15	0.00	20.73	20.45	20.44	38.45	PASS
		25	23.14	22.69	22.86	-2.15	0.00	20.99	20.54	20.71	38.45	PASS
		49	22.44	22.58	22.48	-2.15	0.00	20.29	20.43	20.33	38.45	PASS
	25	0	21.84	21.79	21.87	-2.15	0.00	19.69	19.64	19.72	38.45	PASS
		13	21.93	21.80	21.94	-2.15	0.00	19.78	19.65	19.79	38.45	PASS
		25	21.73	21.74	21.63	-2.15	0.00	19.58	19.59	19.48	38.45	PASS
50	0	21.84	21.73	21.73	-2.15	0.00	19.69	19.58	19.58	38.45	PASS	
16QAM	1	0	21.78	22.49	21.65	-2.15	0.00	19.63	20.34	19.50	38.45	PASS
		25	22.58	22.20	22.46	-2.15	0.00	20.43	20.05	20.31	38.45	PASS
		49	21.51	22.43	21.64	-2.15	0.00	19.36	20.28	19.49	38.45	PASS
	25	0	21.07	20.92	20.91	-2.15	0.00	18.92	18.77	18.76	38.45	PASS
		13	21.17	21.03	21.08	-2.15	0.00	19.02	18.88	18.93	38.45	PASS
		25	21.16	20.86	20.80	-2.15	0.00	19.01	18.71	18.65	38.45	PASS
50	0	21.00	20.84	20.76	-2.15	0.00	18.85	18.69	18.61	38.45	PASS	

Note:

- 1) dBd = dBi - 2.15
- 2) EIRP = Conducted output power + Antenna gain (dBi)
- 3) ERP = Conducted output power + Antenna gain (dBd)

3.8 Test Data - LTE Band 7

Max Power: 22.40dBm

Test Band: 7 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	21.72	21.56	21.69	/	4.20	25.92	25.76	25.89	33.01	PASS
		13	22.03	21.86	21.65	/	4.20	26.23	26.06	25.85	33.01	PASS
		24	21.81	21.71	21.72	/	4.20	26.01	25.91	25.92	33.01	PASS
	12	0	20.97	20.85	20.88	/	4.20	25.17	25.05	25.08	33.01	PASS
		6	20.97	20.83	20.87	/	4.20	25.17	25.03	25.07	33.01	PASS
		13	20.83	20.77	20.79	/	4.20	25.03	24.97	24.99	33.01	PASS
25	0	20.90	20.75	20.79	/	4.20	25.10	24.95	24.99	33.01	PASS	
16QAM	1	0	20.69	21.27	19.98	/	4.20	24.89	25.47	24.18	33.01	PASS
		13	20.83	21.31	20.43	/	4.20	25.03	25.51	24.63	33.01	PASS
		24	20.78	21.15	20.05	/	4.20	24.98	25.35	24.25	33.01	PASS
	12	0	20.02	19.72	19.65	/	4.20	24.22	23.92	23.85	33.01	PASS
		6	20.13	19.83	19.63	/	4.20	24.33	24.03	23.83	33.01	PASS
		13	19.99	19.77	19.55	/	4.20	24.19	23.97	23.75	33.01	PASS
	25	0	19.89	19.70	19.85	/	4.20	24.09	23.90	24.05	33.01	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 7 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.11	21.91	22.23	/	4.20	26.31	26.11	26.43	33.01	PASS
		25	22.40	22.08	22.27	/	4.20	26.60	26.28	26.47	33.01	PASS
		49	21.77	21.79	21.80	/	4.20	25.97	25.99	26.00	33.01	PASS
	25	0	21.05	20.87	20.98	/	4.20	25.25	25.07	25.18	33.01	PASS
		13	21.03	20.86	20.98	/	4.20	25.23	25.06	25.18	33.01	PASS
		25	21.04	20.76	20.89	/	4.20	25.24	24.96	25.09	33.01	PASS
50	0	20.97	20.81	20.96	/	4.20	25.17	25.01	25.16	33.01	PASS	
16QAM	1	0	21.15	21.47	20.96	/	4.20	25.35	25.67	25.16	33.01	PASS
		25	20.92	22.03	21.39	/	4.20	25.12	26.23	25.59	33.01	PASS
		49	20.67	21.34	20.72	/	4.20	24.87	25.54	24.92	33.01	PASS
	25	0	20.09	19.74	20.19	/	4.20	24.29	23.94	24.39	33.01	PASS
		13	20.22	19.92	20.19	/	4.20	24.42	24.12	24.39	33.01	PASS
		25	20.13	19.70	19.98	/	4.20	24.33	23.90	24.18	33.01	PASS
50	0	19.91	19.86	20.04	/	4.20	24.11	24.06	24.24	33.01	PASS	

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 7 _ 15MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	21.95	21.75	21.87	/	4.20	26.15	25.95	26.07	33.01	PASS	
		38	22.01	21.97	22.01	/	4.20	26.21	26.17	26.21	33.01	PASS	
		74	21.67	21.70	21.72	/	4.20	25.87	25.90	25.92	33.01	PASS	
	36	0	20.99	20.89	20.87	/	4.20	25.19	25.09	25.07	33.01	PASS	
		18	21.02	20.95	21.09	/	4.20	25.22	25.15	25.29	33.01	PASS	
		39	20.99	20.78	20.82	/	4.20	25.19	24.98	25.02	33.01	PASS	
	75	0	20.96	20.83	20.79	/	4.20	25.16	25.03	24.99	33.01	PASS	
			21.30	21.33	21.26	/	4.20	25.50	25.53	25.46	33.01	PASS	
		38	21.30	21.16	21.40	/	4.20	25.50	25.36	25.60	33.01	PASS	
16QAM	1	74	20.41	21.44	21.29	/	4.20	24.61	25.64	25.49	33.01	PASS	
		36	0	20.10	19.64	20.16	/	4.20	24.30	23.84	24.36	33.01	PASS
			18	20.03	20.00	20.30	/	4.20	24.23	24.20	24.50	33.01	PASS
	39		19.88	19.83	20.11	/	4.20	24.08	24.03	24.31	33.01	PASS	
	75	0	19.98	19.81	19.96	/	4.20	24.18	24.01	24.16	33.01	PASS	

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 7 _ 20MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	21.85	21.90	21.76	/	4.20	26.05	26.10	25.96	33.01	PASS	
		50	22.23	22.20	22.15	/	4.20	26.43	26.40	26.35	33.01	PASS	
		99	21.65	21.83	21.60	/	4.20	25.85	26.03	25.80	33.01	PASS	
	50	0	20.99	20.88	20.84	/	4.20	25.19	25.08	25.04	33.01	PASS	
		25	20.93	20.86	20.90	/	4.20	25.13	25.06	25.10	33.01	PASS	
		50	20.86	20.77	20.83	/	4.20	25.06	24.97	25.03	33.01	PASS	
	100	0	20.93	20.82	20.84	/	4.20	25.13	25.02	25.04	33.01	PASS	
			21.73	20.89	21.32	/	4.20	25.93	25.09	25.52	33.01	PASS	
		50	22.31	20.89	21.73	/	4.20	26.51	25.09	25.93	33.01	PASS	
16QAM	1	99	21.71	20.24	21.26	/	4.20	25.91	24.44	25.46	33.01	PASS	
		50	0	20.13	19.76	20.02	/	4.20	24.33	23.96	24.22	33.01	PASS
			25	20.09	20.04	20.07	/	4.20	24.29	24.24	24.27	33.01	PASS
	50		19.82	19.84	20.01	/	4.20	24.02	24.04	24.21	33.01	PASS	
	100	0	20.11	19.80	19.94	/	4.20	24.31	24.00	24.14	33.01	PASS	

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3.9 Test Data - LTE Band 12

Max Power: 23.27dBm

Test Band: 12 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.19	23.09	22.64	-2.15	0.00	21.04	20.94	20.49	44.77	PASS
		2	23.27	23.08	22.80	-2.15	0.00	21.12	20.93	20.65	44.77	PASS
		5	23.02	23.15	22.74	-2.15	0.00	20.87	21.00	20.59	44.77	PASS
	3	0	22.88	22.89	22.61	-2.15	0.00	20.73	20.74	20.46	44.77	PASS
		2	22.97	22.90	22.63	-2.15	0.00	20.82	20.75	20.48	44.77	PASS
		3	22.95	22.94	22.67	-2.15	0.00	20.80	20.79	20.52	44.77	PASS
16QAM	6	0	22.10	22.03	21.96	-2.15	0.00	19.95	19.88	19.81	44.77	PASS
		2	22.12	22.18	21.73	-2.15	0.00	19.97	20.03	19.58	44.77	PASS
	1	2	22.91	22.27	21.78	-2.15	0.00	20.76	20.12	19.63	44.77	PASS
		5	22.94	22.14	21.87	-2.15	0.00	20.79	19.99	19.72	44.77	PASS
		0	22.62	22.10	22.10	-2.15	0.00	20.47	19.94	19.95	44.77	PASS
	3	2	22.61	22.16	22.14	-2.15	0.00	20.46	20.01	19.99	44.77	PASS
		3	22.60	22.12	22.21	-2.15	0.00	20.45	19.97	20.06	44.77	PASS
		6	0	21.41	20.96	21.06	-2.15	0.00	19.26	18.81	18.91	44.77

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)
 3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 12 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.10	22.87	23.06	-2.15	0.00	20.95	20.72	20.91	44.77	PASS
		7	22.98	23.01	22.89	-2.15	0.00	20.83	20.86	20.74	44.77	PASS
		14	22.83	22.77	22.63	-2.15	0.00	20.68	20.62	20.48	44.77	PASS
	8	0	22.05	21.95	21.94	-2.15	0.00	19.90	19.80	19.79	44.77	PASS
		4	22.01	22.02	21.76	-2.15	0.00	19.86	19.87	19.61	44.77	PASS
		7	21.94	22.03	21.71	-2.15	0.00	19.79	19.88	19.56	44.77	PASS
16QAM	15	0	22.12	22.00	21.82	-2.15	0.00	19.97	19.85	19.67	44.77	PASS
		2	22.06	22.61	22.37	-2.15	0.00	19.91	20.46	20.22	44.77	PASS
	1	7	22.14	22.45	22.34	-2.15	0.00	19.99	20.30	20.19	44.77	PASS
		14	21.97	22.37	22.10	-2.15	0.00	19.82	20.22	19.95	44.77	PASS
		0	21.03	21.23	21.16	-2.15	0.00	18.88	19.08	19.01	44.77	PASS
	8	4	20.95	21.22	21.15	-2.15	0.00	18.80	19.07	19.00	44.77	PASS
		7	20.97	21.21	21.14	-2.15	0.00	18.82	19.06	18.99	44.77	PASS
		15	0	21.19	20.95	20.87	-2.15	0.00	19.04	18.80	18.72	44.77

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)
 3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 12 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.67	22.70	22.72	-2.15	0.00	20.52	20.55	20.57	44.77	PASS
		13	22.89	22.69	22.57	-2.15	0.00	20.74	20.54	20.42	44.77	PASS
		24	22.72	22.48	22.68	-2.15	0.00	20.57	20.33	20.53	44.77	PASS
	12	0	21.93	21.92	21.90	-2.15	0.00	19.78	19.77	19.75	44.77	PASS
		6	21.89	21.96	21.91	-2.15	0.00	19.74	19.81	19.76	44.77	PASS
		13	21.78	21.85	21.86	-2.15	0.00	19.63	19.70	19.71	44.77	PASS
16QAM	1	0	21.86	21.90	21.82	-2.15	0.00	19.71	19.75	19.67	44.77	PASS
		22.13	21.92	21.07	-2.15	0.00	19.98	19.77	18.92	44.77	PASS	
		13	21.86	21.86	21.20	-2.15	0.00	19.71	19.71	19.05	44.77	PASS
	12	24	21.68	21.45	21.00	-2.15	0.00	19.53	19.30	18.85	44.77	PASS
		0	20.97	20.79	20.51	-2.15	0.00	18.82	18.64	18.36	44.77	PASS
		6	20.94	20.72	20.52	-2.15	0.00	18.79	18.57	18.37	44.77	PASS
25	13	20.84	20.66	20.44	-2.15	0.00	18.69	18.51	18.29	44.77	PASS	
	0	20.94	20.85	20.75	-2.15	0.00	18.79	18.70	18.60	44.77	PASS	

Note:

- 1) dBd = dBi - 2.15
- 2) EIRP = Conducted output power + Antenna gain (dBi)
- 3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 12 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.99	22.57	22.76	-2.15	0.00	20.84	20.42	20.61	44.77	PASS
		25	23.09	22.88	22.89	-2.15	0.00	20.94	20.73	20.74	44.77	PASS
		49	22.72	22.53	22.53	-2.15	0.00	20.57	20.38	20.38	44.77	PASS
	25	0	21.92	21.86	21.95	-2.15	0.00	19.77	19.71	19.80	44.77	PASS
		13	21.95	21.76	21.90	-2.15	0.00	19.80	19.61	19.75	44.77	PASS
		25	21.80	21.77	21.78	-2.15	0.00	19.65	19.62	19.63	44.77	PASS
16QAM	1	0	21.85	21.80	21.88	-2.15	0.00	19.70	19.65	19.73	44.77	PASS
		22.09	22.23	22.24	-2.15	0.00	19.94	20.08	20.09	44.77	PASS	
		25	21.89	23.13	22.57	-2.15	0.00	19.74	20.98	20.42	44.77	PASS
	25	49	21.62	22.32	21.99	-2.15	0.00	19.47	20.17	19.84	44.77	PASS
		0	21.07	20.94	20.97	-2.15	0.00	18.92	18.79	18.82	44.77	PASS
		13	21.10	20.84	21.02	-2.15	0.00	18.95	18.69	18.87	44.77	PASS
50	25	20.96	20.64	20.91	-2.15	0.00	18.81	18.49	18.76	44.77	PASS	
	0	20.85	20.87	20.96	-2.15	0.00	18.70	18.72	18.81	44.77	PASS	

Note:

- 1) dBd = dBi - 2.15
- 2) EIRP = Conducted output power + Antenna gain (dBi)
- 3) ERP = Conducted output power + Antenna gain (dBd)

3.10 Test Data - LTE Band 13

Max Power: 23.11dBm

Test Band: 13 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.62	22.85	22.88	-1.65	0.50	20.97	21.20	21.23	44.77	PASS
		13	22.96	22.97	22.61	-1.65	0.50	21.31	21.32	20.96	44.77	PASS
		24	22.83	22.61	22.47	-1.65	0.50	21.18	20.96	20.82	44.77	PASS
	12	0	21.73	22.05	21.94	-1.65	0.50	20.08	20.40	20.29	44.77	PASS
		6	21.95	22.06	21.88	-1.65	0.50	20.30	20.41	20.23	44.77	PASS
		13	22.09	22.01	21.81	-1.65	0.50	20.44	20.36	20.16	44.77	PASS
25	0	21.95	21.91	21.88	-1.65	0.50	20.30	20.26	20.23	44.77	PASS	
16QAM	1	0	21.71	22.34	21.73	-1.65	0.50	20.06	20.69	20.08	44.77	PASS
		13	21.79	22.50	21.61	-1.65	0.50	20.14	20.85	19.96	44.77	PASS
		24	21.69	22.05	21.18	-1.65	0.50	20.04	20.40	19.53	44.77	PASS
	12	0	20.67	20.94	20.95	-1.65	0.50	19.02	19.29	19.30	44.77	PASS
		6	20.82	20.98	20.89	-1.65	0.50	19.17	19.33	19.24	44.77	PASS
		13	20.92	20.94	20.81	-1.65	0.50	19.27	19.29	19.16	44.77	PASS
	25	0	20.78	20.87	20.90	-1.65	0.50	19.13	19.22	19.25	44.77	PASS

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)
 3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 13 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	/	22.84	/	-1.65	0.50	/	21.19	/	44.77	PASS
		25	/	23.09	/	-1.65	0.50	/	21.44	/	44.77	PASS
		49	/	22.77	/	-1.65	0.50	/	21.12	/	44.77	PASS
	25	0	/	22.02	/	-1.65	0.50	/	20.37	/	44.77	PASS
		13	/	22.06	/	-1.65	0.50	/	20.41	/	44.77	PASS
		25	/	22.00	/	-1.65	0.50	/	20.35	/	44.77	PASS
50	0	/	21.89	/	-1.65	0.50	/	20.24	/	44.77	PASS	
16QAM	1	0	/	22.16	/	-1.65	0.50	/	20.51	/	44.77	PASS
		25	/	23.11	/	-1.65	0.50	/	21.46	/	44.77	PASS
		49	/	22.08	/	-1.65	0.50	/	20.43	/	44.77	PASS
	25	0	/	21.01	/	-1.65	0.50	/	19.36	/	44.77	PASS
		13	/	21.09	/	-1.65	0.50	/	19.44	/	44.77	PASS
		25	/	21.05	/	-1.65	0.50	/	19.40	/	44.77	PASS
50	0	/	20.81	/	-1.65	0.50	/	19.16	/	44.77	PASS	

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)
 3) ERP = Conducted output power + Antenna gain (dBd)

3.11 Test Data - LTE Band 26a

Max Power: 23.34dBm

Test Band: 26a 1.4MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	23.19	23.04	22.94	-2.15	0.00	21.04	20.89	20.79	50.00	PASS	
		2	23.24	23.06	23.02	-2.15	0.00	21.09	20.91	20.87	50.00	PASS	
		5	23.18	23.09	23.02	-2.15	0.00	21.03	20.94	20.87	50.00	PASS	
	3	0	23.12	23.19	23.06	-2.15	0.00	20.97	21.04	20.91	50.00	PASS	
		2	23.14	23.32	23.21	-2.15	0.00	20.99	21.17	21.06	50.00	PASS	
		3	23.21	23.23	23.28	-2.15	0.00	21.06	21.08	21.13	50.00	PASS	
16QAM	6	0	22.18	22.17	22.16	-2.15	0.00	20.03	20.02	20.01	50.00	PASS	
		0	22.57	21.77	21.80	-2.15	0.00	20.42	19.62	19.65	50.00	PASS	
		2	22.73	21.98	22.28	-2.15	0.00	20.58	19.83	20.13	50.00	PASS	
	1	5	22.46	22.15	22.26	-2.15	0.00	20.31	20.00	20.11	50.00	PASS	
		3	0	22.07	22.19	22.24	-2.15	0.00	19.92	20.04	20.09	50.00	PASS
			2	22.02	22.27	22.37	-2.15	0.00	19.87	20.12	20.22	50.00	PASS
	3		21.91	22.20	22.24	-2.15	0.00	19.76	20.05	20.09	50.00	PASS	
	6	0	21.05	21.27	21.26	-2.15	0.00	18.90	19.12	19.11	50.00	PASS	

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)
 3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 26a 3MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	23.20	22.99	23.03	-2.15	0.00	21.05	20.84	20.88	50.00	PASS	
		7	23.34	23.10	22.93	-2.15	0.00	21.19	20.95	20.78	50.00	PASS	
		14	23.19	22.94	22.89	-2.15	0.00	21.04	20.79	20.74	50.00	PASS	
	8	0	22.19	22.16	22.07	-2.15	0.00	20.04	20.01	19.92	50.00	PASS	
		4	22.15	22.15	21.96	-2.15	0.00	20.00	20.00	19.81	50.00	PASS	
		7	22.21	22.17	21.95	-2.15	0.00	20.06	20.02	19.80	50.00	PASS	
16QAM	15	0	22.15	22.23	22.14	-2.15	0.00	20.00	20.08	19.99	50.00	PASS	
		0	22.09	21.87	22.07	-2.15	0.00	19.94	19.72	19.92	50.00	PASS	
		7	22.30	21.77	22.37	-2.15	0.00	20.15	19.62	20.22	50.00	PASS	
	1	14	22.30	22.44	22.36	-2.15	0.00	20.15	20.29	20.21	50.00	PASS	
		8	0	21.40	21.37	21.45	-2.15	0.00	19.25	19.22	19.30	50.00	PASS
			4	21.21	21.29	21.35	-2.15	0.00	19.06	19.14	19.20	50.00	PASS
	7		21.27	21.39	21.33	-2.15	0.00	19.12	19.24	19.18	50.00	PASS	
	15	0	21.01	21.34	21.19	-2.15	0.00	18.86	19.19	19.04	50.00	PASS	

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)
 3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 26a _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.10	22.86	22.97	-2.15	0.00	20.95	20.71	20.82	50.00	PASS
		13	23.11	22.67	22.98	-2.15	0.00	20.96	20.52	20.83	50.00	PASS
		24	22.85	22.62	22.84	-2.15	0.00	20.70	20.47	20.69	50.00	PASS
	12	0	22.10	22.17	22.07	-2.15	0.00	19.95	20.02	19.92	50.00	PASS
		6	22.11	22.07	22.11	-2.15	0.00	19.96	19.92	19.96	50.00	PASS
		13	22.02	22.00	21.98	-2.15	0.00	19.87	19.85	19.83	50.00	PASS
	25	0	22.07	22.14	22.11	-2.15	0.00	19.92	19.99	19.96	50.00	PASS
			22.01	22.26	21.85	-2.15	0.00	19.86	20.11	19.70	50.00	PASS
		13	22.38	22.45	21.66	-2.15	0.00	20.23	20.30	19.51	50.00	PASS
16QAM	1	24	22.16	22.21	21.50	-2.15	0.00	20.01	20.06	19.35	50.00	PASS
		0	21.16	21.03	21.12	-2.15	0.00	19.01	18.88	18.97	50.00	PASS
		6	21.20	20.95	21.16	-2.15	0.00	19.05	18.80	19.01	50.00	PASS
	12	13	21.12	20.89	21.02	-2.15	0.00	18.97	18.74	18.87	50.00	PASS
		0	21.18	21.05	21.18	-2.15	0.00	19.03	18.90	19.03	50.00	PASS
		25	0	21.18	21.05	21.18	-2.15	0.00	19.03	18.90	19.03	50.00

Note:

- 1) dBd = dBi - 2.15
- 2) EIRP = Conducted output power + Antenna gain (dBi)
- 3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 26a _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	/	23.00	/	-2.15	0.00	/	20.85	/	50.00	PASS
		25	/	23.15	/	-2.15	0.00	/	21.00	/	50.00	PASS
		49	/	22.93	/	-2.15	0.00	/	20.78	/	50.00	PASS
	25	0	/	22.15	/	-2.15	0.00	/	20.00	/	50.00	PASS
		13	/	22.07	/	-2.15	0.00	/	19.92	/	50.00	PASS
		25	/	22.03	/	-2.15	0.00	/	19.88	/	50.00	PASS
	50	0	/	22.12	/	-2.15	0.00	/	19.97	/	50.00	PASS
			/	22.48	/	-2.15	0.00	/	20.33	/	50.00	PASS
		1	25	/	22.88	/	-2.15	0.00	/	20.73	/	50.00
16QAM	1	49	/	22.33	/	-2.15	0.00	/	20.18	/	50.00	PASS
		0	/	21.28	/	-2.15	0.00	/	19.13	/	50.00	PASS
		13	/	21.22	/	-2.15	0.00	/	19.07	/	50.00	PASS
	25	25	/	21.08	/	-2.15	0.00	/	18.93	/	50.00	PASS
		0	/	21.14	/	-2.15	0.00	/	18.99	/	50.00	PASS
		50	0	/	21.14	/	-2.15	0.00	/	18.99	/	50.00

Note:

- 1) dBd = dBi - 2.15
- 2) EIRP = Conducted output power + Antenna gain (dBi)
- 3) ERP = Conducted output power + Antenna gain (dBd)

3.12 Test Data - LTE Band 38

Max Power: 23.17dBm

Test Band: 38 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.81	22.59	22.45	/	4.20	27.01	26.79	26.65	33.01	PASS
		13	22.69	22.70	22.62	/	4.20	26.89	26.90	26.82	33.01	PASS
		24	22.48	22.61	22.49	/	4.20	26.68	26.81	26.69	33.01	PASS
	12	0	21.88	21.77	21.82	/	4.20	26.08	25.97	26.02	33.01	PASS
		6	22.04	21.86	21.83	/	4.20	26.24	26.06	26.03	33.01	PASS
		13	21.73	21.88	21.88	/	4.20	25.93	26.08	26.08	33.01	PASS
16QAM	1	0	21.84	21.75	21.75	/	4.20	26.04	25.95	25.95	33.01	PASS
			22.03	22.25	21.89	/	4.20	26.23	26.45	26.09	33.01	PASS
		13	22.06	21.92	21.60	/	4.20	26.26	26.12	25.80	33.01	PASS
	12	24	21.95	21.92	21.67	/	4.20	26.15	26.12	25.87	33.01	PASS
		0	20.56	20.54	20.72	/	4.20	24.76	24.74	24.92	33.01	PASS
		6	20.72	20.49	20.79	/	4.20	24.92	24.69	24.99	33.01	PASS
	25	13	20.73	20.51	20.78	/	4.20	24.93	24.71	24.98	33.01	PASS
		0	20.76	20.66	20.76	/	4.20	24.96	24.86	24.96	33.01	PASS

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 38 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.89	22.66	22.89	/	4.20	27.09	26.86	27.09	33.01	PASS
		25	22.83	22.75	22.71	/	4.20	27.03	26.95	26.91	33.01	PASS
		49	22.62	22.81	22.59	/	4.20	26.82	27.01	26.79	33.01	PASS
	25	0	21.96	21.92	21.80	/	4.20	26.16	26.12	26.00	33.01	PASS
		13	21.83	21.78	21.80	/	4.20	26.03	25.98	26.00	33.01	PASS
		25	21.76	21.72	21.73	/	4.20	25.96	25.92	25.93	33.01	PASS
16QAM	1	25	21.84	21.75	21.77	/	4.20	26.04	25.95	25.97	33.01	PASS
			21.99	21.73	21.55	/	4.20	26.19	25.93	25.75	33.01	PASS
		0	21.99	21.73	21.55	/	4.20	26.19	25.93	25.75	33.01	PASS
	25	25	22.67	22.50	21.75	/	4.20	26.87	26.70	25.95	33.01	PASS
		49	21.77	22.25	21.26	/	4.20	25.97	26.45	25.46	33.01	PASS
		0	20.92	20.79	20.62	/	4.20	25.12	24.99	24.82	33.01	PASS
	50	13	20.89	20.86	20.69	/	4.20	25.09	25.06	24.89	33.01	PASS
		25	20.85	20.76	20.64	/	4.20	25.05	24.96	24.84	33.01	PASS
		0	20.71	20.64	20.67	/	4.20	24.91	24.84	24.87	33.01	PASS

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 38 _ 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.94	22.62	22.72	/	4.20	27.14	26.82	26.92	33.01	PASS
		38	22.65	22.70	22.80	/	4.20	26.85	26.90	27.00	33.01	PASS
		74	22.55	22.80	22.55	/	4.20	26.75	27.00	26.75	33.01	PASS
	36	0	21.76	21.72	21.77	/	4.20	25.96	25.92	25.97	33.01	PASS
		18	21.82	21.78	21.66	/	4.20	26.02	25.98	25.86	33.01	PASS
		39	21.83	21.65	21.50	/	4.20	26.03	25.85	25.70	33.01	PASS
16QAM	1	0	21.80	21.74	21.64	/	4.20	26.00	25.94	25.84	33.01	PASS
			22.31	21.94	21.54	/	4.20	26.51	26.14	25.74	33.01	PASS
		38	21.95	22.25	21.75	/	4.20	26.15	26.45	25.95	33.01	PASS
	36	74	21.77	21.65	21.32	/	4.20	25.97	25.85	25.52	33.01	PASS
		0	20.80	20.72	20.59	/	4.20	25.00	24.92	24.79	33.01	PASS
		18	20.59	20.73	20.73	/	4.20	24.79	24.93	24.93	33.01	PASS
75	39	20.59	20.57	20.55	/	4.20	24.79	24.77	24.75	33.01	PASS	
	0	20.76	20.60	20.58	/	4.20	24.96	24.80	24.78	33.01	PASS	

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 38 _ 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.03	22.80	22.49	/	4.20	27.23	27.00	26.69	33.01	PASS
		50	22.92	23.17	23.05	/	4.20	27.12	27.37	27.25	33.01	PASS
		99	22.75	22.63	22.36	/	4.20	26.95	26.83	26.56	33.01	PASS
	50	0	21.89	21.87	21.65	/	4.20	26.09	26.07	25.85	33.01	PASS
		25	21.90	21.81	21.66	/	4.20	26.10	26.01	25.86	33.01	PASS
		50	21.81	21.65	21.54	/	4.20	26.01	25.85	25.74	33.01	PASS
16QAM	1	100	21.80	21.70	21.67	/	4.20	26.00	25.90	25.87	33.01	PASS
			22.27	21.66	22.50	/	4.20	26.47	25.86	26.70	33.01	PASS
		50	22.50	22.37	22.53	/	4.20	26.70	26.57	26.73	33.01	PASS
	50	99	21.52	21.59	21.98	/	4.20	25.72	25.79	26.18	33.01	PASS
		0	20.85	20.73	20.76	/	4.20	25.05	24.93	24.96	33.01	PASS
		25	20.89	20.75	20.80	/	4.20	25.09	24.95	25.00	33.01	PASS
100	50	20.84	20.68	20.64	/	4.20	25.04	24.88	24.84	33.01	PASS	
	0	20.75	20.68	20.65	/	4.20	24.95	24.88	24.85	33.01	PASS	

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3.13 Test Data - LTE Band 41

Max Power: 23.43dBm

Test Band: 41 _ 5MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	22.21	22.18	22.03	/	4.20	26.41	26.38	26.23	33.01	PASS	
		13	23.16	22.52	22.29	/	4.20	27.36	26.72	26.49	33.01	PASS	
		24	22.66	22.41	21.87	/	4.20	26.86	26.61	26.07	33.01	PASS	
	12	0	21.84	21.41	21.16	/	4.20	26.04	25.61	25.36	33.01	PASS	
		6	21.90	21.45	21.33	/	4.20	26.10	25.65	25.53	33.01	PASS	
		13	21.76	21.44	21.08	/	4.20	25.96	25.64	25.28	33.01	PASS	
	25	0	21.89	21.37	21.21	/	4.20	26.09	25.57	25.41	33.01	PASS	
	16QAM	1	0	21.49	21.88	21.06	/	4.20	25.69	26.08	25.26	33.01	PASS
			13	22.76	21.97	21.09	/	4.20	26.96	26.17	25.29	33.01	PASS
24			21.57	21.57	20.96	/	4.20	25.77	25.77	25.16	33.01	PASS	
12		0	20.71	20.36	20.23	/	4.20	24.91	24.56	24.43	33.01	PASS	
		6	20.65	20.19	20.24	/	4.20	24.85	24.39	24.44	33.01	PASS	
		13	20.67	20.41	20.00	/	4.20	24.87	24.61	24.20	33.01	PASS	
25		0	20.81	20.47	20.22	/	4.20	25.01	24.67	24.42	33.01	PASS	

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 41 _ 10MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	21.70	22.45	22.36	/	4.20	25.90	26.65	26.56	33.01	PASS	
		25	23.43	22.56	22.30	/	4.20	27.63	26.76	26.50	33.01	PASS	
		49	22.71	22.45	22.21	/	4.20	26.91	26.65	26.41	33.01	PASS	
	25	0	22.01	21.47	21.44	/	4.20	26.21	25.67	25.64	33.01	PASS	
		13	21.82	21.43	21.43	/	4.20	26.02	25.63	25.63	33.01	PASS	
		25	21.79	21.51	21.18	/	4.20	25.99	25.71	25.38	33.01	PASS	
	50	0	21.73	21.40	21.22	/	4.20	25.93	25.60	25.42	33.01	PASS	
	16QAM	1	0	20.58	21.54	21.08	/	4.20	24.78	25.74	25.28	33.01	PASS
			25	23.14	21.66	21.26	/	4.20	27.34	25.86	25.46	33.01	PASS
49			21.87	21.51	20.90	/	4.20	26.07	25.71	25.10	33.01	PASS	
25		0	20.99	20.52	20.22	/	4.20	25.19	24.72	24.42	33.01	PASS	
		13	20.90	20.46	20.33	/	4.20	25.10	24.66	24.53	33.01	PASS	
		25	20.77	20.55	20.07	/	4.20	24.97	24.75	24.27	33.01	PASS	
50		0	20.86	20.43	20.11	/	4.20	25.06	24.63	24.31	33.01	PASS	

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 41 _ 15MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	21.90	22.60	22.45	/	4.20	26.10	26.80	26.65	33.01	PASS	
		38	22.82	22.44	22.44	/	4.20	27.02	26.64	26.64	33.01	PASS	
		74	22.47	22.48	22.22	/	4.20	26.67	26.68	26.42	33.01	PASS	
	36	0	21.71	21.40	21.39	/	4.20	25.91	25.60	25.59	33.01	PASS	
		18	21.59	21.34	21.31	/	4.20	25.79	25.54	25.51	33.01	PASS	
		39	21.55	21.47	21.24	/	4.20	25.75	25.67	25.44	33.01	PASS	
	75	0	21.52	21.37	21.37	/	4.20	25.72	25.57	25.57	33.01	PASS	
			21.24	21.95	20.99	/	4.20	25.44	26.15	25.19	33.01	PASS	
		38	22.30	21.77	21.05	/	4.20	26.50	25.97	25.25	33.01	PASS	
16QAM	1	74	21.84	21.80	21.00	/	4.20	26.04	26.00	25.20	33.01	PASS	
		0	20.45	20.56	20.26	/	4.20	24.65	24.76	24.46	33.01	PASS	
		18	20.58	20.45	20.21	/	4.20	24.78	24.65	24.41	33.01	PASS	
	36	39	20.53	20.52	20.12	/	4.20	24.73	24.72	24.32	33.01	PASS	
		75	0	20.53	20.45	20.25	/	4.20	24.73	24.65	24.45	33.01	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 41 _ 20MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	21.72	22.67	22.18	/	4.20	25.92	26.87	26.38	33.01	PASS	
		50	22.95	22.85	22.64	/	4.20	27.15	27.05	26.84	33.01	PASS	
		99	22.76	22.34	21.91	/	4.20	26.96	26.54	26.11	33.01	PASS	
	50	0	21.68	21.46	21.36	/	4.20	25.88	25.66	25.56	33.01	PASS	
		25	21.69	21.45	21.44	/	4.20	25.89	25.65	25.64	33.01	PASS	
		50	21.61	21.41	21.30	/	4.20	25.81	25.61	25.50	33.01	PASS	
	100	0	21.58	21.39	21.38	/	4.20	25.78	25.59	25.58	33.01	PASS	
			20.86	21.57	22.12	/	4.20	25.06	25.77	26.32	33.01	PASS	
		50	22.85	22.06	22.47	/	4.20	27.05	26.26	26.67	33.01	PASS	
16QAM	1	99	21.57	21.64	21.95	/	4.20	25.77	25.84	26.15	33.01	PASS	
		0	20.51	20.49	20.53	/	4.20	24.71	24.69	24.73	33.01	PASS	
		25	20.69	20.58	20.35	/	4.20	24.89	24.78	24.55	33.01	PASS	
	50	50	20.55	20.49	20.24	/	4.20	24.75	24.69	24.44	33.01	PASS	
		100	0	20.59	20.46	20.30	/	4.20	24.79	24.66	24.50	33.01	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3.14 Test Data - LTE Band 66

Max Power: 23.47dBm

Test Band: 66 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.08	23.47	23.15	/	4.10	27.18	27.57	27.25	30.00	PASS
		2	23.14	23.29	23.14	/	4.10	27.24	27.39	27.24	30.00	PASS
		5	23.12	23.33	23.03	/	4.10	27.22	27.43	27.13	30.00	PASS
	3	0	22.92	23.26	22.98	/	4.10	27.02	27.36	27.08	30.00	PASS
		2	23.00	23.02	22.99	/	4.10	27.10	27.12	27.09	30.00	PASS
		3	22.97	23.21	22.91	/	4.10	27.07	27.31	27.01	30.00	PASS
6	0	22.00	22.16	21.93	/	4.10	26.10	26.26	26.03	30.00	PASS	
16QAM	1	0	22.27	23.02	22.29	/	4.10	26.37	27.12	26.39	30.00	PASS
		2	22.33	22.96	22.18	/	4.10	26.43	27.06	26.28	30.00	PASS
		5	22.14	22.94	22.32	/	4.10	26.24	27.04	26.42	30.00	PASS
	3	0	22.08	22.49	22.14	/	4.10	26.18	26.59	26.24	30.00	PASS
		2	22.17	22.53	22.15	/	4.10	26.27	26.63	26.25	30.00	PASS
		3	22.26	22.47	22.09	/	4.10	26.36	26.57	26.19	30.00	PASS
	6	0	21.21	21.33	21.00	/	4.10	25.31	25.43	25.10	30.00	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 66 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.04	23.33	23.12	/	4.10	27.14	27.43	27.22	30.00	PASS
		7	23.17	23.23	23.22	/	4.10	27.27	27.33	27.32	30.00	PASS
		14	23.08	23.18	22.99	/	4.10	27.18	27.28	27.09	30.00	PASS
	8	0	21.91	22.16	21.94	/	4.10	26.01	26.26	26.04	30.00	PASS
		4	21.98	22.16	21.87	/	4.10	26.08	26.26	25.97	30.00	PASS
		7	21.98	22.22	21.86	/	4.10	26.08	26.32	25.96	30.00	PASS
15	0	21.94	22.24	21.96	/	4.10	26.04	26.34	26.06	30.00	PASS	
16QAM	1	0	21.93	22.71	21.85	/	4.10	26.03	26.81	25.95	30.00	PASS
		7	22.02	22.65	22.22	/	4.10	26.12	26.75	26.32	30.00	PASS
		14	21.74	22.56	22.12	/	4.10	25.84	26.66	26.22	30.00	PASS
	8	0	20.79	21.15	21.24	/	4.10	24.89	25.25	25.34	30.00	PASS
		4	20.77	21.17	21.23	/	4.10	24.87	25.27	25.33	30.00	PASS
		7	20.77	21.20	21.13	/	4.10	24.87	25.30	25.23	30.00	PASS
15	0	20.91	21.12	21.03	/	4.10	25.01	25.22	25.13	30.00	PASS	

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 66 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.69	22.84	22.75	/	4.10	26.79	26.94	26.85	30.00	PASS
		13	22.70	23.00	22.76	/	4.10	26.80	27.10	26.86	30.00	PASS
		24	22.73	23.16	22.64	/	4.10	26.83	27.26	26.74	30.00	PASS
	12	0	21.92	22.14	21.91	/	4.10	26.02	26.24	26.01	30.00	PASS
		6	22.02	22.14	21.78	/	4.10	26.12	26.24	25.88	30.00	PASS
		13	21.97	22.19	21.74	/	4.10	26.07	26.29	25.84	30.00	PASS
25	0	21.89	22.11	21.91	/	4.10	25.99	26.21	26.01	30.00	PASS	
		21.80	22.64	21.37	/	4.10	25.90	26.74	25.47	30.00	PASS	
	1	13	21.67	22.63	21.11	/	4.10	25.77	26.73	25.21	30.00	PASS
16QAM	1	24	21.96	22.55	21.05	/	4.10	26.06	26.65	25.15	30.00	PASS
		0	20.80	20.97	20.92	/	4.10	24.90	25.07	25.02	30.00	PASS
		6	21.10	21.01	20.87	/	4.10	25.20	25.11	24.97	30.00	PASS
	12	13	21.06	20.96	20.91	/	4.10	25.16	25.06	25.01	30.00	PASS
		0	21.01	21.10	21.04	/	4.10	25.11	25.20	25.14	30.00	PASS
		25	0	21.01	21.10	21.04	/	4.10	25.11	25.20	25.14	30.00

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 66 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.00	22.98	22.88	/	4.10	27.10	27.08	26.98	30.00	PASS
		25	23.16	23.25	22.99	/	4.10	27.26	27.35	27.09	30.00	PASS
		49	22.63	22.86	22.72	/	4.10	26.73	26.96	26.82	30.00	PASS
	25	0	21.81	22.06	21.92	/	4.10	25.91	26.16	26.02	30.00	PASS
		13	21.94	22.16	21.80	/	4.10	26.04	26.26	25.90	30.00	PASS
		25	21.91	22.04	21.76	/	4.10	26.01	26.14	25.86	30.00	PASS
50	0	21.92	22.04	21.93	/	4.10	26.02	26.14	26.03	30.00	PASS	
		22.13	22.68	22.27	/	4.10	26.23	26.78	26.37	30.00	PASS	
	1	25	22.60	23.33	22.70	/	4.10	26.70	27.43	26.80	30.00	PASS
16QAM	1	49	21.85	22.66	22.01	/	4.10	25.95	26.76	26.11	30.00	PASS
		0	20.98	21.17	21.03	/	4.10	25.08	25.27	25.13	30.00	PASS
		13	21.21	21.37	20.92	/	4.10	25.31	25.47	25.02	30.00	PASS
	25	25	21.18	21.23	20.82	/	4.10	25.28	25.33	24.92	30.00	PASS
		0	21.02	21.13	20.95	/	4.10	25.12	25.23	25.05	30.00	PASS
		50	0	21.02	21.13	20.95	/	4.10	25.12	25.23	25.05	30.00

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 66 _ 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.82	22.99	22.85	/	4.10	26.92	27.09	26.95	30.00	PASS
		38	22.92	23.07	22.82	/	4.10	27.02	27.17	26.92	30.00	PASS
		74	22.55	22.77	22.74	/	4.10	26.65	26.87	26.84	30.00	PASS
	36	0	21.78	22.04	21.88	/	4.10	25.88	26.14	25.98	30.00	PASS
		18	22.03	22.03	21.89	/	4.10	26.13	26.13	25.99	30.00	PASS
		39	22.07	21.95	21.70	/	4.10	26.17	26.05	25.80	30.00	PASS
16QAM	1	0	21.76	21.89	21.84	/	4.10	25.86	25.99	25.94	30.00	PASS
			22.35	22.87	21.89	/	4.10	26.45	26.97	25.99	30.00	PASS
		38	22.20	22.51	22.26	/	4.10	26.30	26.61	26.36	30.00	PASS
	36	74	21.91	22.62	21.70	/	4.10	26.01	26.72	25.80	30.00	PASS
		0	20.84	21.15	20.97	/	4.10	24.94	25.25	25.07	30.00	PASS
		18	21.00	21.15	20.90	/	4.10	25.10	25.25	25.00	30.00	PASS
75	39	21.05	21.09	20.82	/	4.10	25.15	25.19	24.92	30.00	PASS	
	0	20.87	21.04	20.93	/	4.10	24.97	25.14	25.03	30.00	PASS	

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 66 _ 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.67	23.09	22.92	/	4.10	26.77	27.19	27.02	30.00	PASS
		50	22.94	23.29	22.93	/	4.10	27.04	27.39	27.03	30.00	PASS
		99	22.78	22.89	22.71	/	4.10	26.88	26.99	26.81	30.00	PASS
	50	0	21.76	22.03	21.98	/	4.10	25.86	26.13	26.08	30.00	PASS
		25	21.90	22.08	21.98	/	4.10	26.00	26.18	26.08	30.00	PASS
		50	21.87	21.96	21.68	/	4.10	25.97	26.06	25.78	30.00	PASS
16QAM	1	100	21.82	21.99	21.79	/	4.10	25.92	26.09	25.89	30.00	PASS
		0	22.70	22.32	21.86	/	4.10	26.80	26.42	25.96	30.00	PASS
		50	23.13	22.05	22.63	/	4.10	27.23	26.15	26.73	30.00	PASS
	50	99	22.69	21.98	21.69	/	4.10	26.79	26.08	25.79	30.00	PASS
		0	20.70	21.03	20.99	/	4.10	24.80	25.13	25.09	30.00	PASS
		25	20.96	21.08	21.02	/	4.10	25.06	25.18	25.12	30.00	PASS
100	50	20.95	21.04	20.84	/	4.10	25.05	25.14	24.94	30.00	PASS	
	0	20.82	20.88	20.91	/	4.10	24.92	24.98	25.01	30.00	PASS	

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

4 Peak to Average Ratio

4.1 Test Result

Test Description	Specification		Test Result
	FCC	ISED	
Peak to Average Ratio	24.232(d) 27.50(d)(5)	RSS-130 (4.6) RSS-132 (5.4) RSS-133 (6.4) RSS-139 (5.5) RSS-199 (4.4)	Compliant

4.2 Test Method

KDB document 971168 D01 Power Meas License Digital Systems v03r01 was used to determine peak-to-average ratio. For the LTE measurements, Clause 5.7.2 was used which defined the measurement method using the CCDF function of the spectrum analyzer. Measurements were recorded at the lowest, middle, and highest channels.

4.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 22.8 °C

Relative Humidity: 41.1 %

Atmospheric Pressure: 97.8 kPa

4.4 Test Equipment

Test End Date: 28-Nov-2022

Tester: AB

Equipment	Model	Manufacturer	Asset	Cal Date	Cal Due Date
WIDEBAND RADIO COMMUNICATION TESTER	CMW500	ROHDE & SCHWARZ	B094874	13-Jan-2021	13-Jan-2023
RF CABLE SMA TO SMA, 0.01-40GHZ	084-0505-059	TELEDYNE STORM MICROWAVE	20109	16-Mar-2022	16-Mar-2023
RF CABLE (TS8997)	141	HUBER & SUHNER	B095588	5-Jul-2022	5-Jul-2023
ATTENUATOR, 10DB (TS8997)	10DB	ROHDE & SCHWARZ	B095593	12-May-2022	12-May-2023
POWER SPLITTER	ZFRSC-123-S+	MINI-CIRCUITS	B101739	13-Jul-2022	13-Jul-2023
RF CABLE SMA TO SMA, 0.01-40GHZ	084-0505-020	TELEDYNE STORM MICROWAVE	20105	16-Mar-2022	16-Mar-2023
EXA SIGNAL ANALYZER	N9010B	KEYSIGHT	1245605	17-Nov-2022	17-Nov-2023
TSTPASS SWITCHBOX	SB1	TSTPASS	20168	CNR	CNR

Software Profile:

TESTPass Version: 1.0.0, build: 2020.11.15.01

4.5 Test Data – LTE Band 2

Test Band: 2 _ 1.4MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	3.86	4.16	3.99	13	PASS
16QAM	6	0	4.68	4.96	4.80	13	PASS
Test Band: 2 _ 3MHz Bandwidth							
QPSK	15	0	4.10	4.39	4.32	13	PASS
16QAM	15	0	4.88	5.20	5.12	13	PASS
Test Band: 2 _ 5MHz Bandwidth							
QPSK	25	0	4.16	4.36	4.36	13	PASS
16QAM	25	0	4.95	5.13	5.11	13	PASS
Test Band: 2 _ 10MHz Bandwidth							
QPSK	50	0	5.40	5.48	5.46	13	PASS
16QAM	50	0	6.43	6.38	6.50	13	PASS
Test Band: 2 _ 15MHz Bandwidth							
QPSK	75	0	6.40	6.39	6.44	13	PASS
16QAM	75	0	7.07	7.10	7.10	13	PASS
Test Band: 2 _ 20MHz Bandwidth							
QPSK	100	0	6.88	6.90	6.97	13	PASS
16QAM	100	0	7.36	7.43	7.46	13	PASS

Representative Plot taken from data measured

