

FCC Radio Test Report

FCC ID: QISAGS-L03

This report concerns (check one): Original Grant Class II Change

Project No. : 1705C003
Equipment : Huawei MediaPad T3 10 (MediaPad T3 10 for short)
Model Name : AGS-L03
Applicant : Huawei Technologies Co., Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

Date of Receipt : May 02, 2017
Date of Test : May 02, 2017 ~ May 19, 2017
Issued Date : May 22, 2017
Tested by : BTL Inc.

Technical Engineer :

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Declaration

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For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-8-1705C003	Original Issue.	May 22, 2017

1. CERTIFICATION

Equipment : Huawei MediaPad T3 10 (MediaPad T3 10 for short)
Brand Name : HUAWEI
Model Name : AGS-L03
Applicant : Huawei Technologies Co., Ltd
Manufacturer: Huawei Technologies Co., Ltd
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District Shenzhen China
Factory : Huawei Technologies Co., Ltd
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District Shenzhen China
Date of Test : May 02, 2017 ~ May 19, 2017
Test Sample : Engineering Sample
Standard(s) : 47 CFR FCC Part 27
47 CFR FCC Part 2 & ANSI/TIA-603-D-2010
KDB 971168 D01 Power Meas License Digital Systems v02r02

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-8-1705C003) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the WCDMA Band 4, LTE Band 4, 7, 12, 17 and 41 part.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 27 & Part 2			
Standard(s) Section	Test Item	Judgment	Tested By
2.1046 27.50(d)(4)	Radiated power	PASS	Paul Li
2.1046 27.50(d)(4)	Conducted Output Power	PASS	Paul Li
2.1049 27.53(h)	Occupied Bandwidth	PASS	Paul Li
2.1051 27.53(h)	Conducted Spurious Emissions	PASS	Paul Li
2.1053 27.53(h)	Radiated Spurious Emissions	PASS	Paul Li
27.53(h)	Band Edge Measurements	PASS	Paul Li
27.50	Peak To Average Ratio	PASS	Paul Li
2.1055 27.54	Frequency Stability	PASS	Paul Li

NOTE:

(1) "N/A" denotes test is not applicable to this device.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{CISPR} requirement.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95%**.

A. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	9KHz ~ 30MHz	V	3.79
		9KHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	H	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	H	4.06

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 18GHz	V	3.12
		1GHz ~ 18GHz	H	3.68

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (1m)	CISPR	18GHz ~ 40GHz	V	4.15
		18GHz ~ 40GHz	H	4.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Huawei MediaPad T3 10 (MediaPad T3 10 for short)	
Brand Name	HUAWEI	
Model Name	AGS-L03	
Model Difference	N/A	
Modulation Type	WCDMA	UP: QPSK DP: QPSK,16QAM,64AQM
	LTE	UP: QPSK,16QAM DP: QPSK,16QAM,64AQM
Operation Frequency	WCDMA Band 4	1712.4 ~ 1752.6MHz
	LTE 4 (Channel Bandwidth: 1.4MHz)	1710.7 ~ 1754.3 MHz
	LTE 4 (Channel Bandwidth: 3MHz)	1711.5 ~ 1753.5 MHz
	LTE 4 (Channel Bandwidth: 5MHz)	1712.5 ~ 1752.5 MHz
	LTE 4 (Channel Bandwidth: 10MHz)	1715.0 ~ 1750.0 MHz
	LTE 4 (Channel Bandwidth: 15MHz)	1717.5 ~ 1747.5 MHz
	LTE 4 (Channel Bandwidth: 20MHz)	1720.0 ~ 1745.0 MHz
	LTE 7 (Channel Bandwidth: 5MHz)	2502.5 ~ 2567.5 MHz
	LTE 7 (Channel Bandwidth: 10MHz)	2505.0 ~ 2565.0 MHz
	LTE 7 (Channel Bandwidth: 15MHz)	2507.5 ~ 2562.5 MHz
	LTE 7 (Channel Bandwidth: 20MHz)	2510.0 ~ 2560.0 MHz
	LTE 12 (Channel Bandwidth: 1.4MHz)	699.7 ~ 715.3MHz
	LTE 12 (Channel Bandwidth: 3MHz)	700.5 ~ 714.5MHz
	LTE 12 (Channel Bandwidth: 5MHz)	701.5 ~ 713.5MHz
	LTE 12 (Channel Bandwidth: 10MHz)	704.0 ~ 711.0MHz
	LTE 17 (Channel Bandwidth: 5MHz)	706.5 ~ 713.5 MHz
	LTE 17 (Channel Bandwidth: 10MHz)	709.0 ~ 711.0 MHz
LTE 41 (Channel Bandwidth: 5MHz)	2498.5 ~ 2687.5 MHz	
LTE 41 (Channel Bandwidth: 10MHz)	2501.0 ~ 2685.0 MHz	
LTE 41 (Channel Bandwidth: 15MHz)	2503.5 ~ 2682.5 MHz	
LTE 41 (Channel Bandwidth: 20MHz)	2506.0 ~ 2680.0 MHz	

Max. EIRP Power	WCDMA Band 4(WCDMA)	QPSK	24.53	dBm
	WCDMA Band 4(HSDPA)	QPSK	23.55	dBm
	WCDMA Band 4(HSUPA)	QPSK	23.56	dBm
	WCDMA Band 4(DC-HSDPA)	QPSK	23.55	dBm
	LTE 4 (Channel Bandwidth: 1.4MHz)	QPSK	20.83	dBm
		16QAM	23.30	dBm
	LTE 4 (Channel Bandwidth: 3MHz)	QPSK	24.12	dBm
		16QAM	23.25	dBm
	LTE 4 (Channel Bandwidth: 5MHz)	QPSK	24.04	dBm
		16QAM	22.81	dBm
	LTE 4 (Channel Bandwidth: 10MHz)	QPSK	24.11	dBm
		16QAM	23.11	dBm
LTE 4 (Channel Bandwidth: 15MHz)	QPSK	23.92	dBm	
	16QAM	23.62	dBm	
LTE 4 (Channel Bandwidth: 20MHz)	QPSK	24.10	dBm	
	16QAM	22.94	dBm	
Max. EIRP Power	LTE 7 (Channel Bandwidth: 5MHz)	QPSK	23.82	dBm
		16QAM	22.59	dBm
	LTE 7 (Channel Bandwidth: 10MHz)	QPSK	24.39	dBm
		16QAM	23.21	dBm
	LTE 7 (Channel Bandwidth: 15MHz)	QPSK	24.26	dBm
		16QAM	23.50	dBm
	LTE 7 (Channel Bandwidth: 20MHz)	QPSK	24.52	dBm
		16QAM	23.00	dBm
Max. ERP Power	LTE 12 (Channel Bandwidth: 1.4MHz)	QPSK	21.06	dBm
		16QAM	20.19	dBm
	LTE 12 (Channel Bandwidth: 3MHz)	QPSK	21.13	dBm
		16QAM	20.41	dBm
	LTE 12 (Channel Bandwidth: 5MHz)	QPSK	21.26	dBm
		16QAM	19.68	dBm
	LTE 12 (Channel Bandwidth: 10MHz)	QPSK	21.36	dBm
		16QAM	20.41	dBm
	LTE 17 (Channel Bandwidth: 5MHz)	QPSK	20.43	dBm
		16QAM	19.40	dBm
LTE 17 (Channel Bandwidth: 10MHz)	QPSK	20.80	dBm	
	16QAM	19.69	dBm	
Max. EIRP Power	LTE 41 (Channel Bandwidth: 5MHz)	QPSK	25.08	dBm
		16QAM	23.36	dBm
	LTE 41 (Channel Bandwidth: 10MHz)	QPSK	24.84	dBm
		16QAM	23.52	dBm
	LTE 41 (Channel Bandwidth: 15MHz)	QPSK	24.81	dBm
		16QAM	23.64	dBm
LTE 41 (Channel Bandwidth: 20MHz)	QPSK	25.00	dBm	
	16QAM	23.69	dBm	

Antenna Type	Fixed Internal Antenna	
Antenna Gain	WCDMA Band 4 & LTE 4	1.2dBi
	LTE 7 & 41	1.6dBi
	LTE 12 & 17	-0.5dBi
Hardware Version	SH1AGSL09M	
Software Version	AGS-L03C331B005-log	
IMEI No.	Radiated	864273030006025
	Conducted	864273030006389
Power Source	#1 DC voltage supplied from adapter. #2 Supplied from battery. #3 Supplied from USB port.	
Power Rating	#1 100-240V~ 50/60Hz 0.2A #2 DC 3.8V 4650mAh #2 DC 5V 1A	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. The EUT contains following accessory devices.

Item	Mfr/Brand	Model.
Battery	Sunwoda Electronic Co., LTD	HB3080G1EBC/ HB3080G1EBW
	Harbin Coslight Power Co.,Ltd.	
Earphone	JIANGXI LIANCHUANG HONGSHENG ELECTRONIC CO., LTD	22040150
	BOLUO COUNTY QUANCHENG ELECTRONIC CO., LTD	22040150
	Goer Tek Inc	22040150
USB Cable	Shenzhen Luxshare Precision Industry Co.,Ltd.	L99U2017-CS-H
	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	CUBB01M-HC304-DH
	HONGLIN TECHNOLOGY CO.,LTD	130-26988
Adapter	DONGGUAN PHITEK ELECTRONICS CO.,LTD.	HW-050100U01
	SHENZHEN HUNTKEY ELECTRONIC CO.,LTD.	HW-050100A01 HW-050100E01
	HUIZHOU BYD ELECTRONIC CO., LTD.	HW-050100B01

3.2 DESCRIPTION OF TEST MODES AND TEST CONDITION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports

The worst case was found when positioned on X-plane for EIRP and X-axis for radiated emission.

Following channel(s) was (were) selected for the final test as listed below:

WCDMA BAND 4			
Test Item	Available Channel	Tested Channel	Mode
EIRP	1312 to 1513	1312, 1413, 1513	WCDMA,HSDPA, HSUPA
Frequency Stability	1312 to 1513	1413	WCDMA
Occupied Bandwidth	1312 to 1513	1312, 1413, 1513	WCDMA,HSDPA, HSUPA
Band Edge	1312 to 1513	1312, 1513	WCDMA,HSDPA, HSUPA
Peak to Average Ratio	1312 to 1513	1312, 1413, 1513	WCDMA,HSDPA, HSUPA
Conducuted Emission	1312 to 1513	1413	WCDMA,HSDPA, HSUPA
Radiated Emission	1312 to 1513	1312	WCDMA,HSDPA, HSUPA

LTE BAND 4					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	1RB/3RB/6RB
	19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	1RB/8RB/15RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1RB/25RB/50RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1RB/36RB/75RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1RB/50RB/100RB
Occupied Bandwidth	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	6RB
	19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	15RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	25RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	50RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	75 RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	100RB
Conducted Emission	19957 to 20393	20175	1.4MHz	QPSK	1RB
	19965 to 20385	20175	3MHz	QPSK	1RB
	19975 to 20375	20175	5MHz	QPSK	1RB
	20000 to 20350	20175	10MHz	QPSK	1RB
	20025 to 20325	20175	15MHz	QPSK	1RB
	20050 to 20300	20175	20MHz	QPSK	1RB
Radiated Emission	19957 to 20393	20175	1.4MHz	QPSK	1RB
	20050 to 20300	20175	20MHz	QPSK	1RB

LTE BAND 4						
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode	
Band Edge	19957 to 20393	19957	1.4MHz	QPSK	1RB/6RB	
		20393	1.4MHz	QPSK		
	19965 to 20385	19965	3MHz	QPSK	1RB/15RB	
		20385	3MHz	QPSK		
	19975 to 20375	19975	5MHz	QPSK	1RB/25RB	
		20375	5MHz	QPSK		
	20000 to 20350	20000	10MHz	QPSK	1RB/50RB	
		20350	10MHz	QPSK		
	20025 to 20325	20025	15MHz	QPSK	1RB/75RB	
		20325	15MHz	QPSK		
	20050 to 20300	20050	20MHz	QPSK	1RB/100RB	
		20300	20MHz	QPSK		
	Peak To Average Ratio	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	1RB
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	1RB
19975 to 20375		19975, 20175, 20375	5MHz	QPSK, 16QAM	1RB	
20000 to 20350		20000, 20175, 20350	10MHz	QPSK, 16QAM	1RB	
20025 to 20325		20025, 20175, 20325	15MHz	QPSK, 16QAM	1RB	
20050 to 20300		20050, 20175, 20300	20MHz	QPSK, 16QAM	1RB	
Frequency Stability	19957 to 20393	20175	1.4MHz	QPSK	1RB	
	19965 to 20385	20175	3MHz	QPSK	1RB	
	19975 to 20375	20175	5MHz	QPSK	1RB	
	20000 to 20350	20175	10MHz	QPSK	1RB	
	20025 to 20325	20175	15MHz	QPSK	1RB	
	20050 to 20300	20175	20MHz	QPSK	1RB	

LTE BAND 7					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1RB/25RB/50RB
	20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	1RB/36RB/75RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1RB/50RB/100RB
Occupied Bandwidth	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	25RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	50RB
	20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	75RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	100RB
Conducted Emission	20775 to 21425	21100	5MHz	QPSK	1 RB
	20800 to 21400	21100	10MHz	QPSK	1 RB
	20825 to 21375	21100	15MHz	QPSK	1 RB
	20850 to 21350	21100	20MHz	QPSK	1 RB
Radiated Emission	20775 to 21425	21100	5MHz	QPSK	1 RB
	20850 to 21350	21100	20MHz	QPSK	1 RB
Band Edge	20775 to 21425	20775	5MHz	QPSK	1RB/25RB
		21425	5MHz	QPSK	
	20800 to 21400	20800	10MHz	QPSK	1RB/50RB
		21400	10MHz	QPSK	
	20825 to 21375	20825	15MHz	QPSK	1RB/75RB
		21375	15MHz	QPSK	
	20850 to 21350	20850	20MHz	QPSK	1RB/100RB
		21350	20MHz	QPSK	
Peak To Average Ratio	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1RB
	20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	1RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1RB
Frequency Stability	20775 to 21425	21100	5MHz	QPSK	1RB
	20800 to 21400	21100	10MHz	QPSK	1RB
	20825 to 21375	21100	15MHz	QPSK	1RB
	20850 to 21350	21100	20MHz	QPSK	1RB

LTE BAND 12					
Test Item	Available Channel	Tested Channel	Channel	Modulation	Mode
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	1RB/3RB/6RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	1RB/8RB/15RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	1RB/25RB/50RB
Frequency Stability	23017 to 23173	23095	1.4MHz	QPSK	1 RB
	23025 to 23165	23095	3MHz	QPSK	1 RB
	23035 to 23155	23095	5MHz	QPSK	1 RB
	23060 to 23130	23095	10MHz	QPSK	1 RB
Occupied Bandwidth	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	6RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	15RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	25RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	50RB
Peak to Average Ratio	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	1 RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	1 RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1 RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	1 RB
Band Edge	23017 to 23173	23017	1.4MHz	QPSK	1RB/6RB
		23173	1.4MHz	QPSK	
	23025 to 23165	23025	3MHz	QPSK	1RB/15RB
		23165	3MHz	QPSK	
	23035 to 23155	23035	5MHz	QPSK	1RB/25RB
		23155	5MHz	QPSK	
	23060 to 23130	23060	10MHz	QPSK	1RB/50RB
		23130	10MHz	QPSK	
Conducted Emission	23017 to 23173	23095	1.4MHz	QPSK	1 RB
	23025 to 23165	23095	3MHz	QPSK	1 RB
	23035 to 23155	23095	5MHz	QPSK	1 RB
	23060 to 23130	23095	10MHz	QPSK	1 RB
Radiated Emission	23017 to 23173	23095	1.4MHz	QPSK	1 RB
	23060 to 23130	23095	10MHz	QPSK	1 RB

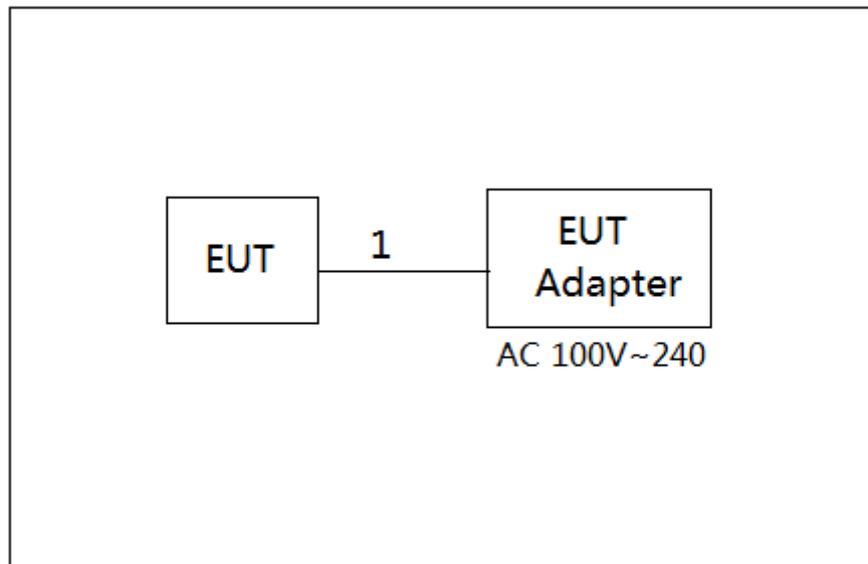
LTE BAND 17					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	706.5 to 713.5	23755, 23790, 23825	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	709.0 to 711.0	23780, 23790, 23775	10MHz	QPSK, 16QAM	1RB/25RB/50RB
Occupied Bandwidth	706.5 to 713.5	23755, 23790, 23825	5MHz	QPSK, 16QAM	25RB
	709.0 to 711.0	23780, 23790, 23775	10MHz	QPSK, 16QAM	50RB
Conducted Emission	706.5 to 713.5	23790	5MHz	QPSK	1 RB
	709.0 to 711.0	23790	10MHz	QPSK	1 RB
Radiated Emission	706.5 to 713.5	23755	5MHz	QPSK	1 RB
	709.0 to 711.0	23755	10MHz	QPSK	1 RB
Band Edge	706.5 to 713.5	23755	5MHz	QPSK	1RB/25RB
		23825	5MHz	QPSK	
	709.0 to 711.0	23780	10MHz	QPSK	1RB/50RB
		23775	10MHz	QPSK	
Peak To Average Ratio	706.5 to 713.5	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB
	709.0 to 711.0	23780, 23790, 23775	10MHz	QPSK, 16QAM	1 RB
Frequency Stability	706.5 to 713.5	23790	5MHz	QPSK	1 RB
	709.0 to 711.0	23790	10MHz	QPSK	1 RB

LTE BAND 41					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	1RB/25RB/50RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	1RB/36RB/75RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	1RB/50RB/100RB
Frequency Stability	39675 to 41565	40620	5MHz	QPSK	1 RB
	39700 to 41540	40620	10MHz	QPSK	1 RB
	39725 to 41515	40620	15MHz	QPSK	1 RB
	39750 to 41490	40620	20MHz	QPSK	1 RB
Occupied Bandwidth	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	25RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	50RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	75 RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	100RB
Peak to Average Ratio	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	1 RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	1 RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	1 RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	1 RB
Band Edge	39675 to 41565	39675, 41565	5MHz	QPSK, 16QAM	1RB/25RB
	39700 to 41540	39700, 41540	10MHz	QPSK, 16QAM	1RB/50RB
	39725 to 41515	39725, 41515	15MHz	QPSK, 16QAM	1RB/75RB
	39750 to 41490	39750, 41490	20MHz	QPSK, 16QAM	1RB/100RB
Conducted Emission	39675 to 41565	40620	5MHz	QPSK	1 RB
	39700 to 41540	40620	10MHz	QPSK	1 RB
	39725 to 41515	40620	15MHz	QPSK	1 RB
	39750 to 41490	40620	20MHz	QPSK	1 RB
Radiated Emission	39675 to 41565	40620	5MHz	QPSK	1 RB
	39700 to 41540	40620	10MHz	QPSK	1 RB
	39725 to 41515	40620	15MHz	QPSK	1 RB
	39750 to 41490	40620	20MHz	QPSK	1 RB

EUT TEST CONDITIONS:

Test Item	Environmental Conditions	Test Voltage
EIRP	24°C, 63%RH	AC 120V/60Hz
Conducted Output Power	25°C, 65%RH	AC 120V/60Hz
Occupied Bandwidth	25°C, 65%RH	AC 120V/60Hz
Conducted Emission	25°C, 65%RH	AC 120V/60Hz
Radiated Emission	25°C, 60%RH	AC 120V/60Hz
Band Edge	25°C, 65%RH	AC 120V/60Hz
Peak to Average Ratio	25°C, 65%RH	AC 120V/60Hz
Frequency Stability	25°C, 65%RH	AC 120V/60Hz

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	YES	NO	1m	USB cable

4. TEST RESULT

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMIT

Mobile / Portable station are limited to 1 watts e.i.r.p. (LTE 4)

Mobile / Portable station are limited to 2 watts e.i.r.p. (LTE 7 and LTE 41)

Mobile / Portable station are limited to 3 watts e.i.r.p. (LTE 12 and LTE 17)

4.1.2 TEST PROCEDURE

EIRP/ERP:

EIRP= Conducted Power +Antenan gain

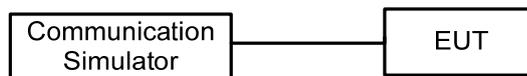
ERP power=EIPR power-2.15dBi.

Conducted Power:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA, CDMA, and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TESTSETUP LAYOUT

Conducted Power Measurement



4.1.4 TEST DEVIATION

No deviation

4.1.5 TEST RESULTS

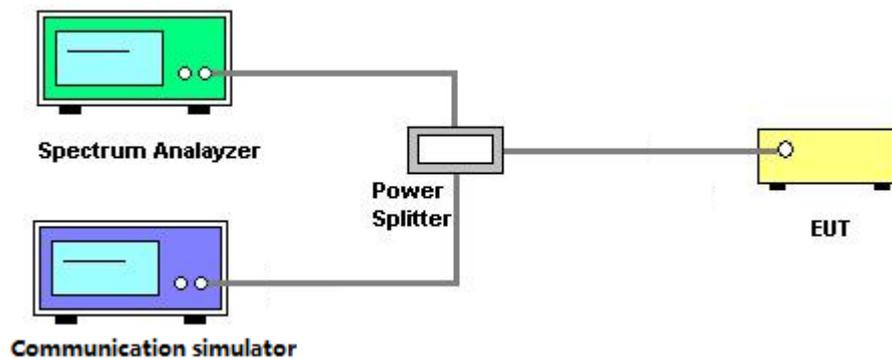
Please refer to the Attachment A.

4.2 OCCUPIED BANDWIDTH MEASUREMENT

4.2.1 TEST PROCEDURE

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.

4.2.2 TEST SETUP LAYOUT



4.2.3 TEST DEVIATION

No deviation

4.2.4 TEST RESULTS

Please refer to the Attachment B.

4.3 CONDUCTED EMISSIONS MEASUREMENT

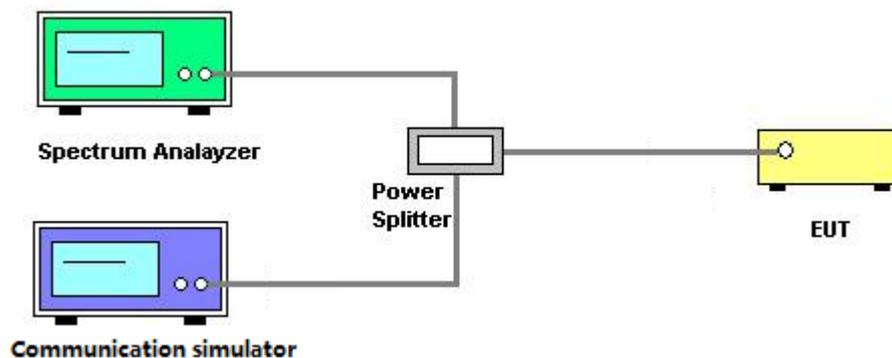
4.3.1 LIMIT

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. The emission limit equal to -13dBm.

4.3.2 TEST PROCEDURES

1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured. Set $RBW \geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Set spectrum analyzer with RMS detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43+10\log(P)$ dB below the transmitter power P(Watts)
 $=P(W)-[43+10\log(P)](dB)$
 $=[30+10\log(P)](dBm)-[43+10\log(P)](dB)$
 $=-13dBm$

4.3.3 TESTSETUP LAYOUT



4.3.4 TESTDEVIATION

No deviation

4.3.5 TEST RESULTS

Please refer to the Attachment C.

4.4 RADIATED EMISSIONS MEASUREMENT

4.4.1 LIMIT

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. The emission limit equal to -13dBm.

4.4.2 TEST PROCEDURES

1. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
2. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
3. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
4. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15dBi.
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.4.3 TESTSETUP LAYOUT

This test setup layout is the same as that shown in **section 4.1.3**.

4.4.4 TESTDEVIATION

No deviation

4.4.5 TEST RESULTS

Please refer to the Attachment D.

4.5 BAND EDGE MEASUREMENT

4.5.1 LIMIT

For operations in the 704-716 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

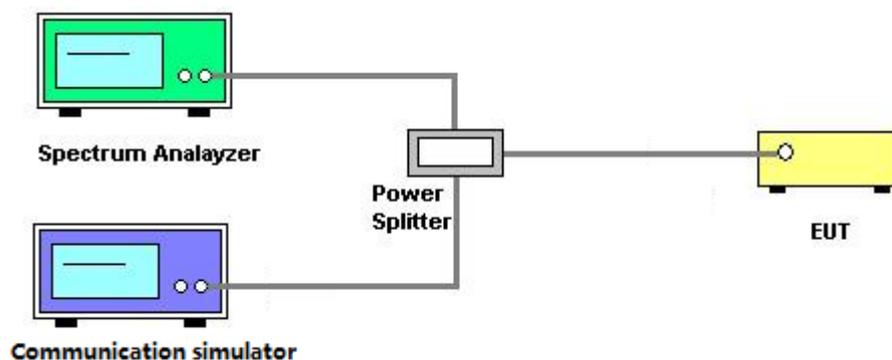
However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

For operations in the 1710–1755 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

4.5.2 TEST PROCEDURES

1. All measurements were done at low and high operational frequency range.
2. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 13kHz and VB of the spectrum is 51kHz (LTE Bandwidth 1.4MHz).
3. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 30kHz and VB of the spectrum is 100kHz (LTE Bandwidth 3MHz).
4. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Bandwidth 5MHz/10MHz).
5. Record the max trace plot into the test report.

4.5.3 TESTSETUP LAYOUT



4.5.4 TESTDEVIATION

No deviation

4.5.5 TEST RESULTS

Please refer to the Attachment E.

4.6 PEAK TO AVERAGE RATIO MEASUREMENT

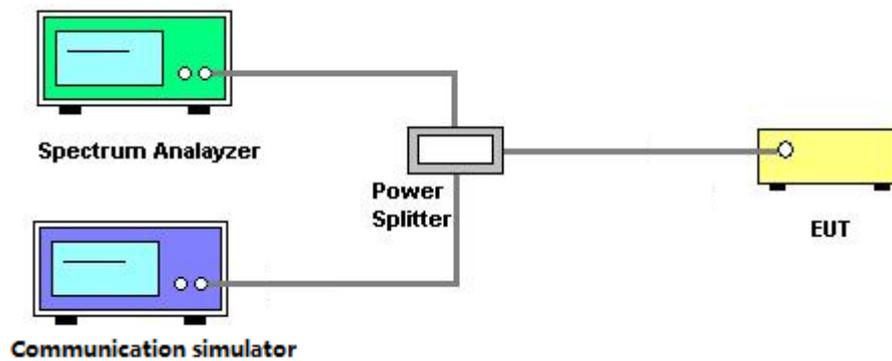
4.6.1 LIMIT

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

4.6.2 TEST PROCEDURES

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

4.6.3 TESTSETUP LAYOUT



4.6.4 TESTDEVIATION

No deviation

4.6.5 TEST RESULTS

Please refer to the Attachment F.

4.7 FREQUENCY STABILITY MEASUREMENT

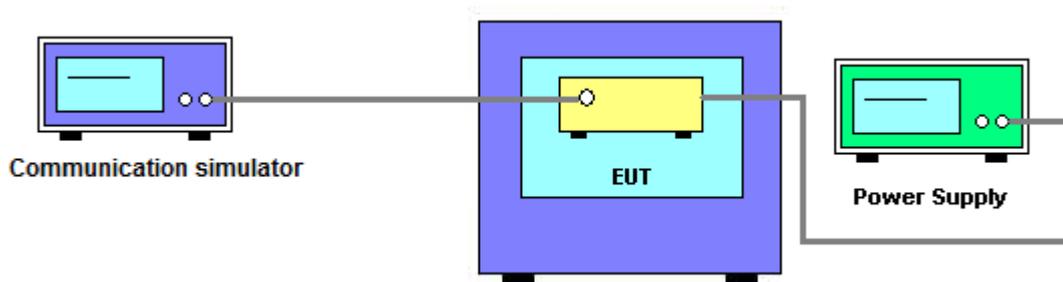
4.7.1 LIMIT

1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.7.2 TEST PROCEDURES

1. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
2. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
3. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.
4. The frequency error was recorded frequency error from the communication simulator.

4.7.3 TESTSETUP LAYOUT



4.7.4 TESTDEVIATION

No deviation

4.7.5 TEST RESULTS

Please refer to the Attachment G.

5. LIST OF MEASUREMENT EQUIPMENTS

Radiated Emission & ERP or EIRP Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 26, 2018
2	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 26, 2018
3	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 22, 2018
4	Amplifier	Agilent	8449B	3008A02274	Mar. 09, 2018
5	Amplifier	HP	8447D	2944A09673	Oct. 20, 2017
6	HighPass Filter	Wairwright Instruments Gmbh	WHK 1.5/15G-10ST	11	Mar. 09, 2018
7	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 1710/1785-1690/180 5-60/12SS	38	Feb. 22, 2018
8	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 824/849-810/863-60/ 9SS	7	Feb. 22, 2018
9	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 880/915-860/935-60/ 9SS	14	Feb. 22, 2018
10	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 1850/1910-1830/193 0-60/10SS	17	Feb. 22, 2018
11	HighPass Filter	Wairwright Instruments Gmbh	WHK3.1/18G-10SS	24	Mar. 09, 2018
12	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Mar. 26, 2018
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 26, 2018
14	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017
15	wideband radio communication tester	R&S	CMW500	152372	Mar. 26, 2018
16	High pass filter	ZHPF-M1000-4000-1	ZHPF-M3-12.75G-3869	B2015073763	Aug. 04, 2017
17	High pass filter	ZHPF-M3-12.75G-3869	ZHPF-M1000-4000-1	B2015073762	Aug. 04, 2017
18	High pass filter	ZHPF-M6-18G-1727	ZHPF-M6-186-1727	B2015073764	Aug. 04, 2017
19	Cable	emci	LMR-400(30MHz-1GHz)(8m+5m)	N/A	Jun. 27, 2017
20	Cable	emci	EMC104-SM-SM-12000(12m)	N/A	Jul. 06, 2017
21	Controller	ETS-Lindgren	2090	N/A	N/A
22	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Conducted Emission & Band Edge & Occupied Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Mar. 26, 2018
2	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 26, 2018
3	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S +	331000910-1	Feb. 25, 2018
4	wideband radio communication tester	R&S	CMW500	152372	Mar. 26, 2018
5	Cable	N/A	RG316(0.3m)	N/A	Jul. 06, 2017

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Mar. 26, 2018
2	DC power supply	GW Instek	GPC-3030DN	EK880675	Oct. 13, 2017
3	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S +	331000910-1	Feb. 25, 2018
4	wideband radio communication tester	R&S	CMW500	152372	Mar. 26, 2018
5	Const Temp, & Humidity Chamber	Giant?Force	ITH-225-20-S	IAB0309-001	Sep. 04, 2017
6	Cable	N/A	RG316(0.3m)	N/A	Jul. 06, 2017

Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

ATTACHMENT A - OUTPUT POWER

Conducted Power:

Modulation	Band	WCDMA IV		
	Tx Channel	1312 CH	1413 CH	1513 CH
	Rx Channel	1537 CH	1638 CH	1738 CH
	Frequency	1712.4	1732.6	1752.6
QPSK	RMC 12.2K	23.26	23.29	23.21
	RMC 64K	23.33	23.29	23.27
	RMC 144K	23.32	23.27	23.26
	RMC 384K	23.32	23.27	23.25
QPSK	HSDPA Subtest-1	22.35	22.33	22.29
	HSDPA Subtest-2	22.32	22.27	22.25
	HSDPA Subtest-3	21.75	21.74	21.66
	HSDPA Subtest-4	21.74	21.73	21.68
QPSK	HSUPA Subtest-1	22.27	22.26	22.27
	HSUPA Subtest-2	21.75	21.75	21.65
	HSUPA Subtest-3	22.32	22.28	22.24
	HSUPA Subtest-4	22.32	22.32	22.28
	HSUPA Subtest-5	22.34	22.32	22.36
QPSK	DC-HSDPA Subtest-1	22.35	22.33	22.29
	DC-HSDPA Subtest-2	22.32	22.27	22.25
	DC-HSDPA Subtest-3	21.75	21.74	21.66
	DC-HSDPA Subtest-4	21.74	21.73	21.68

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				19957 CH	20175 CH	20393 CH
				1710.7 MHz	1732.5 MHz	1754.3 MHz
4 / 1.4M	QPSK	1	0	22.53	22.50	22.58
		1	2	22.55	22.52	22.51
		1	5	22.51	22.51	22.56
		3	0	22.50	22.50	22.55
		3	1	22.54	22.58	22.59
		3	3	22.63	22.58	22.59
	16QAM	6	0	21.51	21.55	21.57
		1	0	21.51	21.94	21.54
		1	2	21.62	21.98	21.68
		1	5	21.59	21.94	21.60
		3	0	21.53	21.58	22.07
		3	1	21.51	21.52	21.88
		3	3	21.55	21.52	22.10
		6	0	20.57	20.53	21.07

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				19965 CH	20175 CH	20385 CH
				1711.5 MHz	1732.5 MHz	1753.5 MHz
4 / 3M	QPSK	1	0	22.55	22.53	22.52
		1	7	22.86	22.60	22.64
		1	14	22.92	22.52	22.74
		8	0	21.50	21.57	21.55
		8	3	21.58	21.59	21.64
		8	7	21.57	21.56	21.60
	16QAM	15	0	21.66	21.68	21.62
		1	0	21.65	22.05	21.55
		1	7	21.88	21.90	21.59
		1	14	21.78	21.59	21.51
		8	0	20.61	20.63	20.52
		8	3	20.64	20.57	20.50
		8	7	20.56	20.59	20.56
		15	0	20.83	20.68	20.59

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				19975 CH	20175 CH	20375 CH
				1712.5 MHz	1732.5 MHz	1752.5 MHz
4 / 5M	QPSK	1	0	22.59	22.56	22.70
		1	12	22.72	22.57	22.79
		1	24	22.73	22.51	22.84
		12	0	21.54	21.58	21.67
		12	6	21.65	21.61	21.70
		12	13	21.71	21.59	21.79
	16QAM	25	0	21.64	21.58	21.78
		1	0	21.58	21.53	21.53
		1	12	21.53	21.54	21.61
		1	24	21.51	21.57	21.57
		12	0	20.58	20.52	20.62
		12	6	20.59	20.55	20.65
		12	13	20.66	20.53	20.72
		25	0	20.72	20.54	20.70

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				20000 CH	20175 CH	20350 CH
				1715 MHz	1732.5 MHz	1750 MHz
4 / 10M	QPSK	1	0	22.56	22.56	22.57
		1	24	22.75	22.52	22.91
		1	49	22.62	22.52	22.74
		25	0	21.61	21.67	21.64
		25	12	21.70	21.66	21.72
		25	25	21.57	21.59	21.66
		50	0	21.65	21.64	21.67
	16QAM	1	0	21.56	21.85	21.55
		1	24	21.87	21.91	21.51
		1	49	21.61	21.87	21.75
		25	0	20.58	20.61	20.63
		25	12	20.55	20.59	20.69
		25	25	20.55	20.52	20.67
		50	0	20.60	20.54	20.60

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				20025 CH	20175 CH	20325 CH
				1717.5 MHz	1732.5 MHz	1747.5 MHz
4 / 15M	QPSK	1	0	22.72	22.56	22.56
		1	37	22.59	22.56	22.50
		1	74	22.71	22.51	22.55
		36	0	21.75	22.31	21.64
		36	19	21.58	21.57	21.71
		36	39	21.54	21.58	21.58
		75	0	21.53	21.55	21.61
	16QAM	1	0	21.60	21.58	22.42
		1	37	22.20	21.53	22.07
		1	74	21.74	21.59	22.38
		36	0	20.62	20.99	20.59
		36	19	20.65	20.69	20.65
		36	39	20.60	20.61	20.63
		75	0	20.60	20.56	20.61

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				20050 CH	20175 CH	20300 CH
				1720 MHz	1732.5 MHz	1745 MHz
4 / 20M	QPSK	1	0	22.55	22.52	22.55
		1	50	22.55	22.60	22.60
		1	99	22.88	22.90	22.64
		50	0	21.61	21.64	21.76
		50	25	21.62	21.65	21.70
		50	50	21.60	21.53	21.60
		100	0	21.61	21.60	21.66
	16QAM	1	0	21.55	21.60	21.74
		1	50	21.57	21.63	21.68
		1	99	21.56	21.58	21.53
		50	0	20.67	20.56	20.75
		50	25	20.59	20.58	20.69
		50	50	20.53	20.56	20.59
		100	0	20.68	20.60	20.57

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				20775 CH	21100 CH	21425 CH
				2502.5 MHz	2535 MHz	2567.5 MHz
7 / 5M	QPSK	1	0	22.07	22.08	22.04
		1	12	22.16	22.22	22.12
		1	24	21.95	21.97	21.98
		12	0	21.10	21.31	21.27
		12	6	21.02	21.35	21.28
		12	13	21.07	21.42	21.26
		25	0	21.12	21.46	21.28
	16QAM	1	0	20.54	20.75	20.92
		1	12	20.51	20.78	20.99
		1	24	20.33	20.68	20.96
		12	0	19.93	20.26	20.19
		12	6	19.83	20.31	20.21
		12	13	19.79	20.25	20.12
		25	0	20.11	20.25	20.14

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				20800 CH	21100 CH	21400 CH
				2505 MHz	2535 MHz	2565 MHz
7 / 10M	QPSK	1	0	22.27	22.37	22.30
		1	24	22.24	22.79	22.52
		1	49	22.22	22.32	21.43
		25	0	21.15	21.41	21.28
		25	12	21.13	21.41	21.34
		25	25	21.09	21.36	21.21
		50	0	21.09	21.40	21.34
	16QAM	1	0	21.21	21.12	21.31
		1	24	21.19	21.61	21.19
		1	49	21.20	21.51	20.73
		25	0	20.11	20.54	20.37
		25	12	19.98	20.45	20.42
		25	25	19.92	20.41	20.19
		50	0	20.08	20.42	20.25

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				20825 CH	21100 CH	21375 CH
				2507.5 MHz	2535 MHz	2562.5 MHz
7 / 15M	QPSK	1	0	22.47	22.18	22.22
		1	37	22.66	22.41	22.32
		1	74	22.36	22.19	21.59
		36	0	21.16	21.44	21.39
		36	19	21.20	21.42	21.28
		36	39	21.17	21.41	21.20
		75	0	21.19	21.44	21.32
	16QAM	1	0	21.38	20.84	21.88
		1	37	21.65	21.67	21.90
		1	74	21.34	21.61	21.20
		36	0	20.19	20.34	20.25
		36	19	20.22	20.30	20.03
		36	39	20.11	20.29	19.98
		75	0	20.13	20.31	20.12

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				20850 CH	21100 CH	21350 CH
				2510 MHz	2535 MHz	2560 MHz
7 / 20M	QPSK	1	0	21.96	22.23	22.05
		1	50	22.25	22.92	22.78
		1	99	21.75	22.22	21.34
		50	0	21.19	21.44	21.35
		50	25	21.23	21.38	21.29
		50	50	21.17	21.43	21.24
		100	0	21.09	21.45	21.30
	16QAM	1	0	20.83	21.14	21.25
		1	50	20.85	21.40	21.32
		1	99	20.75	21.19	20.97
		50	0	19.96	20.41	20.28
		50	25	20.28	20.30	20.30
		50	50	20.28	20.38	20.00
		100	0	20.16	20.41	20.16

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				23017 CH	23095 CH	23173 CH
				699.7 MHz	707.5 MHz	715.3 MHz
12 / 1.4M	QPSK	1	0	23.40	23.53	23.41
		1	2	23.49	23.51	23.40
		1	5	23.53	23.48	23.42
		3	0	23.36	23.64	23.54
		3	1	23.43	23.71	23.63
		3	3	23.45	23.64	23.58
	16QAM	6	0	22.71	22.71	22.71
		1	0	22.53	22.49	22.17
		1	2	22.61	22.64	22.14
		1	5	22.67	22.52	22.84
		3	0	22.59	22.31	22.63
		3	1	22.71	22.27	22.62
		3	3	22.72	22.30	22.57
		6	0	21.80	21.82	21.51

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				23025 CH	23095 CH	23165 CH
				700.5 MHz	707.5 MHz	714.5 MHz
12 / 3M	QPSK	1	0	23.26	23.61	23.78
		1	7	23.59	23.70	23.66
		1	14	23.68	23.52	23.59
		8	0	22.66	22.63	22.74
		8	3	22.67	22.60	22.68
		8	7	22.60	22.62	22.64
		15	0	22.63	22.69	22.66
	16QAM	1	0	22.27	22.95	22.67
		1	7	22.60	23.06	22.65
		1	14	22.64	22.90	22.74
		8	0	21.89	21.79	21.91
		8	3	21.74	21.90	21.66
		8	7	21.79	21.77	21.57
		15	0	21.61	21.67	21.49

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				23035 CH	23095 CH	23155 CH
				701.5 MHz	707.5 MHz	713.5 MHz
12 / 5M	QPSK	1	0	23.25	23.48	23.39
		1	12	23.91	23.51	23.59
		1	24	23.60	23.39	23.42
		12	0	22.62	22.58	22.61
		12	6	22.69	22.57	22.72
		12	13	22.61	22.63	22.68
		25	0	22.54	22.69	22.66
	16QAM	1	0	21.77	21.96	22.24
		1	12	22.21	22.07	22.33
		1	24	21.86	21.95	22.29
		12	0	21.58	21.48	21.53
		12	6	21.75	21.49	21.65
		12	13	21.66	21.54	21.69
		25	0	21.31	21.60	21.68

LTE Band / BW	Modulation	RB Sizing	RB Offset	Low CH	Mid CH	High CH
				23060 CH	23095 CH	23130 CH
				704 MHz	707.5 MHz	711 MHz
12 / 10M	QPSK	1	0	22.53	23.13	23.05
		1	24	24.01	24.00	23.85
		1	49	23.24	23.57	23.47
		25	0	22.60	22.52	22.73
		25	12	22.52	22.60	22.67
		25	25	22.55	22.54	22.65
		50	0	22.62	22.58	22.65
	16QAM	1	0	21.55	22.53	22.17
		1	24	23.01	23.06	22.58
		1	49	22.23	22.95	22.21
		25	0	21.56	21.60	21.68
		25	12	21.59	21.71	21.83
		25	25	21.53	21.64	21.76
		50	0	21.58	21.55	21.54

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				23755 CH	23790 CH	23825 CH
				706.5 MHz	710.0 MHz	713.5 MHz
17 / 5M	QPSK	1	0	22.98	22.80	22.83
		1	12	23.08	22.86	22.92
		1	24	23.00	22.74	22.91
		12	0	22.11	22.05	22.08
		12	6	22.08	22.06	22.19
		12	13	22.05	22.04	22.18
		25	0	22.14	22.08	22.03
	16QAM	1	0	21.56	21.82	21.76
		1	12	21.51	22.05	21.80
		1	24	21.60	21.92	21.77
		12	0	21.05	20.88	21.02
		12	6	21.01	20.94	21.04
		12	13	21.07	20.93	21.01
		25	0	21.18	20.99	20.99

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				23780 CH	23790 CH	23800 CH
				709.0 MHz	710.0 MHz	711.0 MHz
17 / 10M	QPSK	1	0	23.22	22.95	23.16
		1	24	23.45	23.16	23.17
		1	49	23.17	22.83	22.81
		25	0	22.14	22.08	22.01
		25	12	22.19	22.12	22.08
		25	25	22.07	22.15	22.06
		50	0	22.11	22.06	22.05
	16QAM	1	0	22.21	22.34	22.02
		1	24	22.01	22.29	22.03
		1	49	22.19	22.31	21.96
		25	0	21.02	21.17	21.06
		25	12	20.98	21.22	21.09
		25	25	20.94	21.08	21.11
		50	0	21.07	20.98	20.96

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				39675 CH	40620 CH	41565 CH
				2498.5MHz	2593.0MHz	2687.5MHz
41 / 5M	QPSK	1	0	23.12	22.70	22.63
		1	12	23.48	23.08	22.98
		1	24	23.20	22.80	22.70
		12	0	22.34	21.94	21.84
		12	6	22.25	21.85	21.75
		12	13	22.16	21.76	21.66
		25	0	22.20	21.94	21.95
	16QAM	1	0	21.61	21.21	21.11
		1	12	21.76	21.36	21.26
		1	24	21.52	21.12	21.02
		12	0	20.96	20.56	20.46
		12	6	21.11	20.71	20.61
		12	13	21.17	20.77	20.67
		25	0	21.33	20.93	20.83

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				39700 CH	40620 CH	41540 CH
				2501.0MHz	2593.0MHz	2685.0MHz
41 / 10M	QPSK	1	0	22.90	22.73	22.63
		1	24	23.24	23.02	22.70
		1	49	22.88	22.71	22.61
		25	0	22.28	22.11	22.01
		25	12	22.23	22.06	21.96
		25	25	22.17	22.00	21.90
		50	0	22.24	22.07	21.97
	16QAM	1	0	21.81	21.64	21.54
		1	24	21.92	21.75	21.65
		1	49	21.68	21.51	21.41
		25	0	21.45	21.28	21.18
		25	12	21.36	21.19	21.09
		25	25	21.36	21.19	21.09
		50	0	21.37	21.20	21.10

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				39725 CH	40620 CH	41515 CH
				2503.5MHz	2593.0MHz	2682.5MHz
41 / 15M	QPSK	1	0	22.95	22.92	22.65
		1	37	23.21	23.18	22.91
		1	74	22.93	22.90	22.63
		36	0	22.28	22.25	21.98
		36	19	22.21	22.18	21.91
		36	39	22.12	22.09	21.82
		75	0	22.19	22.16	21.89
	16QAM	1	0	22.03	22.00	21.73
		1	37	22.04	22.01	21.74
		1	74	21.82	21.79	21.52
		36	0	21.39	21.36	21.09
		36	19	21.13	21.10	20.83
		36	39	21.01	20.98	20.71
		75	0	21.14	21.11	20.84

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				39750 CH	40620 CH	41490 CH
				2506.0MHz	2593.0MHz	2680.0MHz
41 / 20M	QPSK	1	0	22.77	22.83	22.71
		1	50	23.40	23.23	23.03
		1	99	22.86	22.81	22.22
		50	0	22.73	22.15	22.02
		50	25	22.40	22.21	21.99
		50	50	22.14	21.89	21.52
		100	0	22.20	21.99	21.78
	16QAM	1	0	21.87	21.49	21.60
		1	50	22.09	21.83	21.55
		1	99	21.63	21.57	21.07
		50	0	21.36	21.12	20.86
		50	25	21.26	21.18	20.82
		50	50	21.20	20.86	20.66
		100	0	21.05	20.92	20.63

EIRP Power:

Modulation	Band	WCDMA IV		
	Tx Channel	1312 CH	1413 CH	1513 CH
	Rx Channel	1537 CH	1638 CH	1738 CH
	Frequency	1712.4	1732.6	1752.6
QPSK	RMC 12.2K	24.46	24.49	24.41
	RMC 64K	24.53	24.49	24.47
	RMC 144K	24.52	24.47	24.46
	RMC 384K	24.52	24.47	24.45
QPSK	HSDPA Subtest-1	23.55	23.53	23.49
	HSDPA Subtest-2	23.52	23.47	23.45
	HSDPA Subtest-3	22.95	22.94	22.86
	HSDPA Subtest-4	22.94	22.93	22.88
QPSK	HSUPA Subtest-1	23.47	23.46	23.47
	HSUPA Subtest-2	22.95	22.95	22.85
	HSUPA Subtest-3	23.52	23.48	23.44
	HSUPA Subtest-4	23.52	23.52	23.48
	HSUPA Subtest-5	23.54	23.52	23.56
QPSK	DC-HSDPA Subtest-1	23.55	23.53	23.49
	DC-HSDPA Subtest-2	23.52	23.47	23.45
	DC-HSDPA Subtest-3	22.95	22.94	22.86
	DC-HSDPA Subtest-4	22.94	22.93	22.88

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				19957 CH	20175 CH	20393 CH
				1710.7 MHz	1732.5 MHz	1754.3 MHz
4 / 1.4M	QPSK	1	0	23.73	23.70	23.78
		1	2	23.75	23.72	23.71
		1	5	23.71	23.71	23.76
		3	0	23.70	23.70	23.75
		3	1	23.74	23.78	23.79
		3	3	23.83	23.78	23.79
		6	0	22.71	22.75	22.77
	16QAM	1	0	22.71	23.14	22.74
		1	2	22.82	23.18	22.88
		1	5	22.79	23.14	22.80
		3	0	22.73	22.78	23.27
		3	1	22.71	22.72	23.08
		3	3	22.75	22.72	23.30
		6	0	21.77	21.73	22.27

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				19965 CH	20175 CH	20385 CH
				1711.5 MHz	1732.5 MHz	1753.5 MHz
4 / 3M	QPSK	1	0	23.75	23.73	23.72
		1	7	24.06	23.80	23.84
		1	14	24.12	23.72	23.94
		8	0	22.70	22.77	22.75
		8	3	22.78	22.79	22.84
		8	7	22.77	22.76	22.80
		15	0	22.86	22.88	22.82
	16QAM	1	0	22.85	23.25	22.75
		1	7	23.08	23.10	22.79
		1	14	22.98	22.79	22.71
		8	0	21.81	21.83	21.72
		8	3	21.84	21.77	21.70
		8	7	21.76	21.79	21.76
		15	0	22.03	21.88	21.79

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				19975 CH	20175 CH	20375 CH
				1712.5 MHz	1732.5 MHz	1752.5 MHz
4 / 5M	QPSK	1	0	23.79	23.76	23.90
		1	12	23.92	23.77	23.99
		1	24	23.93	23.71	24.04
		12	0	22.74	22.78	22.87
		12	6	22.85	22.81	22.90
		12	13	22.91	22.79	22.99
		25	0	22.84	22.78	22.98
	16QAM	1	0	22.78	22.73	22.73
		1	12	22.73	22.74	22.81
		1	24	22.71	22.77	22.77
		12	0	21.78	21.72	21.82
		12	6	21.79	21.75	21.85
		12	13	21.86	21.73	21.92
		25	0	21.92	21.74	21.90

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				20000 CH	20175 CH	20350 CH
				1715 MHz	1732.5 MHz	1750 MHz
4 / 10M	QPSK	1	0	23.76	23.76	23.77
		1	24	23.95	23.72	24.11
		1	49	23.82	23.72	23.94
		25	0	22.81	22.87	22.84
		25	12	22.90	22.86	22.92
		25	25	22.77	22.79	22.86
		50	0	22.85	22.84	22.87
	16QAM	1	0	22.76	23.05	22.75
		1	24	23.07	23.11	22.71
		1	49	22.81	23.07	22.95
		25	0	21.78	21.81	21.83
		25	12	21.75	21.79	21.89
		25	25	21.75	21.72	21.87
		50	0	21.80	21.74	21.80

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				20025 CH	20175 CH	20325 CH
				1717.5 MHz	1732.5 MHz	1747.5 MHz
4 / 15M	QPSK	1	0	23.92	23.76	23.76
		1	37	23.79	23.76	23.70
		1	74	23.91	23.71	23.75
		36	0	22.95	23.51	22.84
		36	19	22.78	22.77	22.91
		36	39	22.74	22.78	22.78
		75	0	22.73	22.75	22.81
	16QAM	1	0	22.80	22.78	23.62
		1	37	23.40	22.73	23.27
		1	74	22.94	22.79	23.58
		36	0	21.82	22.19	21.79
		36	19	21.85	21.89	21.85
		36	39	21.80	21.81	21.83
		75	0	21.80	21.76	21.81

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				20050 CH	20175 CH	20300 CH
				1720 MHz	1732.5 MHz	1745 MHz
4 / 20M	QPSK	1	0	23.75	23.72	23.75
		1	50	23.75	23.80	23.80
		1	99	24.08	24.10	23.84
		50	0	22.81	22.84	22.96
		50	25	22.82	22.85	22.90
		50	50	22.80	22.73	22.80
		100	0	22.81	22.80	22.86
	16QAM	1	0	22.75	22.80	22.94
		1	50	22.77	22.83	22.88
		1	99	22.76	22.78	22.73
		50	0	21.87	21.76	21.95
		50	25	21.79	21.78	21.89
		50	50	21.73	21.76	21.79
		100	0	21.88	21.80	21.77

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				20775 CH	21100 CH	21425 CH
				2502.5 MHz	2535 MHz	2567.5 MHz
7 / 5M	QPSK	1	0	23.67	23.68	23.64
		1	12	23.76	23.82	23.72
		1	24	23.55	23.57	23.58
		12	0	22.70	22.91	22.87
		12	6	22.62	22.95	22.88
		12	13	22.67	23.02	22.86
		25	0	22.72	23.06	22.88
	16QAM	1	0	22.14	22.35	22.52
		1	12	22.11	22.38	22.59
		1	24	21.93	22.28	22.56
		12	0	21.53	21.86	21.79
		12	6	21.43	21.91	21.81
		12	13	21.39	21.85	21.72
		25	0	21.71	21.85	21.74

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				20800 CH	21100 CH	21400 CH
				2505 MHz	2535 MHz	2565 MHz
7 / 10M	QPSK	1	0	23.87	23.97	23.90
		1	24	23.84	24.39	24.12
		1	49	23.82	23.92	23.03
		25	0	22.75	23.01	22.88
		25	12	22.73	23.01	22.94
		25	25	22.69	22.96	22.81
		50	0	22.69	23.00	22.94
	16QAM	1	0	22.81	22.72	22.91
		1	24	22.79	23.21	22.79
		1	49	22.80	23.11	22.33
		25	0	21.71	22.14	21.97
		25	12	21.58	22.05	22.02
		25	25	21.52	22.01	21.79
		50	0	21.68	22.02	21.85

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				20825 CH	21100 CH	21375 CH
				2507.5 MHz	2535 MHz	2562.5 MHz
7 / 15M	QPSK	1	0	24.07	23.78	23.82
		1	37	24.26	24.01	23.92
		1	74	23.96	23.79	23.19
		36	0	22.76	23.04	22.99
		36	19	22.80	23.02	22.88
		36	39	22.77	23.01	22.80
		75	0	22.79	23.04	22.92
	16QAM	1	0	22.98	22.44	23.48
		1	37	23.25	23.27	23.50
		1	74	22.94	23.21	22.80
		36	0	21.79	21.94	21.85
		36	19	21.82	21.90	21.63
		36	39	21.71	21.89	21.58
		75	0	21.73	21.91	21.72

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				20850 CH	21100 CH	21350 CH
				2510 MHz	2535 MHz	2560 MHz
7 / 20M	QPSK	1	0	23.56	23.83	23.65
		1	50	23.85	24.52	24.38
		1	99	23.35	23.82	22.94
		50	0	22.79	23.04	22.95
		50	25	22.83	22.98	22.89
		50	50	22.77	23.03	22.84
		100	0	22.69	23.05	22.90
	16QAM	1	0	22.43	22.74	22.85
		1	50	22.45	23.00	22.92
		1	99	22.35	22.79	22.57
		50	0	21.56	22.01	21.88
		50	25	21.88	21.90	21.90
		50	50	21.88	21.98	21.60
		100	0	21.76	22.01	21.76

ERP Power:

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				23017 CH	23095 CH	23173 CH
				699.7 MHz	707.5 MHz	715.3 MHz
12 / 1.4M	QPSK	1	0	20.75	20.88	20.76
		1	2	20.84	20.86	20.75
		1	5	20.88	20.83	20.77
		3	0	20.71	20.99	20.89
		3	1	20.78	21.06	20.98
		3	3	20.80	20.99	20.93
		6	0	20.06	20.06	20.06
	16QAM	1	0	19.88	19.84	19.52
		1	2	19.96	19.99	19.49
		1	5	20.02	19.87	20.19
		3	0	19.94	19.66	19.98
		3	1	20.06	19.62	19.97
		3	3	20.07	19.65	19.92
		6	0	19.15	19.17	18.86

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				23025 CH	23095 CH	23165 CH
				700.5 MHz	707.5 MHz	714.5 MHz
12 / 3M	QPSK	1	0	20.61	20.96	21.13
		1	7	20.94	21.05	21.01
		1	14	21.03	20.87	20.94
		8	0	20.01	19.98	20.09
		8	3	20.02	19.95	20.03
		8	7	19.95	19.97	19.99
		15	0	19.98	20.04	20.01
	16QAM	1	0	19.62	20.30	20.02
		1	7	19.95	20.41	20.00
		1	14	19.99	20.25	20.09
		8	0	19.24	19.14	19.26
		8	3	19.09	19.25	19.01
		8	7	19.14	19.12	18.92
		15	0	18.96	19.02	18.84

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				23035 CH	23095 CH	23155 CH
				701.5 MHz	707.5 MHz	713.5 MHz
12 / 5M	QPSK	1	0	20.60	20.83	20.74
		1	12	21.26	20.86	20.94
		1	24	20.95	20.74	20.77
		12	0	19.97	19.93	19.96
		12	6	20.04	19.92	20.07
		12	13	19.96	19.98	20.03
		25	0	19.89	20.04	20.01
	16QAM	1	0	19.12	19.31	19.59
		1	12	19.56	19.42	19.68
		1	24	19.21	19.30	19.64
		12	0	18.93	18.83	18.88
		12	6	19.10	18.84	19.00
		12	13	19.01	18.89	19.04
		25	0	18.66	18.95	19.03

LTE Band / BW	Modulation	RB Sizing	RB Offset	Low CH	Mid CH	High CH
				23060 CH	23095 CH	23130 CH
				704 MHz	707.5 MHz	711 MHz
12 / 10M	QPSK	1	0	19.88	20.48	20.40
		1	24	21.36	21.35	21.20
		1	49	20.59	20.92	20.82
		25	0	19.95	19.87	20.08
		25	12	19.87	19.95	20.02
		25	25	19.90	19.89	20.00
		50	0	19.97	19.93	20.00
	16QAM	1	0	18.90	19.88	19.52
		1	24	20.36	20.41	19.93
		1	49	19.58	20.30	19.56
		25	0	18.91	18.95	19.03
		25	12	18.94	19.06	19.18
		25	25	18.88	18.99	19.11
		50	0	18.93	18.90	18.89

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				23755 CH	23790 CH	23825 CH
				706.5 MHz	710.0 MHz	713.5 MHz
17 / 5M	QPSK	1	0	20.33	20.15	20.18
		1	12	20.43	20.21	20.27
		1	24	20.35	20.09	20.26
		12	0	19.46	19.40	19.43
		12	6	19.43	19.41	19.54
		12	13	19.40	19.39	19.53
		25	0	19.49	19.43	19.38
	16QAM	1	0	18.91	19.17	19.11
		1	12	18.86	19.40	19.15
		1	24	18.95	19.27	19.12
		12	0	18.40	18.23	18.37
		12	6	18.36	18.29	18.39
		12	13	18.42	18.28	18.36
		25	0	18.53	18.34	18.34

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				23780 CH	23790 CH	23800 CH
				709.0 MHz	710.0 MHz	711.0 MHz
17 / 10M	QPSK	1	0	20.57	20.30	20.51
		1	24	20.80	20.51	20.52
		1	49	20.52	20.18	20.16
		25	0	19.49	19.43	19.36
		25	12	19.54	19.47	19.43
		25	25	19.42	19.50	19.41
		50	0	19.46	19.41	19.40
	16QAM	1	0	19.56	19.69	19.37
		1	24	19.36	19.64	19.38
		1	49	19.54	19.66	19.31
		25	0	18.37	18.52	18.41
		25	12	18.33	18.57	18.44
		25	25	18.29	18.43	18.46
		50	0	18.42	18.33	18.31

EIRP Power:

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				39675 CH	40620 CH	41565 CH
				2498.5MHz	2593.0MHz	2687.5MHz
41 / 5M	QPSK	1	0	24.72	24.30	24.23
		1	12	25.08	24.68	24.58
		1	24	24.80	24.40	24.30
		12	0	23.94	23.54	23.44
		12	6	23.85	23.45	23.35
		12	13	23.76	23.36	23.26
		25	0	23.80	23.54	23.55
	16QAM	1	0	23.21	22.81	22.71
		1	12	23.36	22.96	22.86
		1	24	23.12	22.72	22.62
		12	0	22.56	22.16	22.06
		12	6	22.71	22.31	22.21
		12	13	22.77	22.37	22.27
		25	0	22.93	22.53	22.43

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				39700 CH	40620 CH	41540 CH
				2501.0MHz	2593.0MHz	2685.0MHz
41 / 10M	QPSK	1	0	24.50	24.33	24.23
		1	24	24.84	24.62	24.30
		1	49	24.48	24.31	24.21
		25	0	23.88	23.71	23.61
		25	12	23.83	23.66	23.56
		25	25	23.77	23.60	23.50
		50	0	23.84	23.67	23.57
	16QAM	1	0	23.41	23.24	23.14
		1	24	23.52	23.35	23.25
		1	49	23.28	23.11	23.01
		25	0	23.05	22.88	22.78
		25	12	22.96	22.79	22.69
		25	25	22.96	22.79	22.69
		50	0	22.97	22.80	22.70

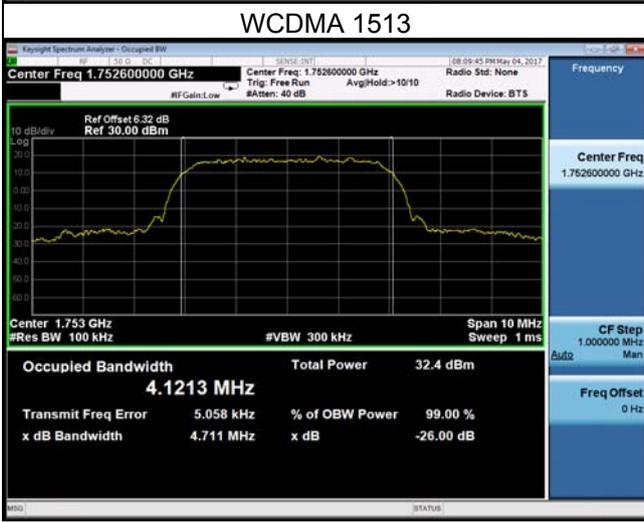
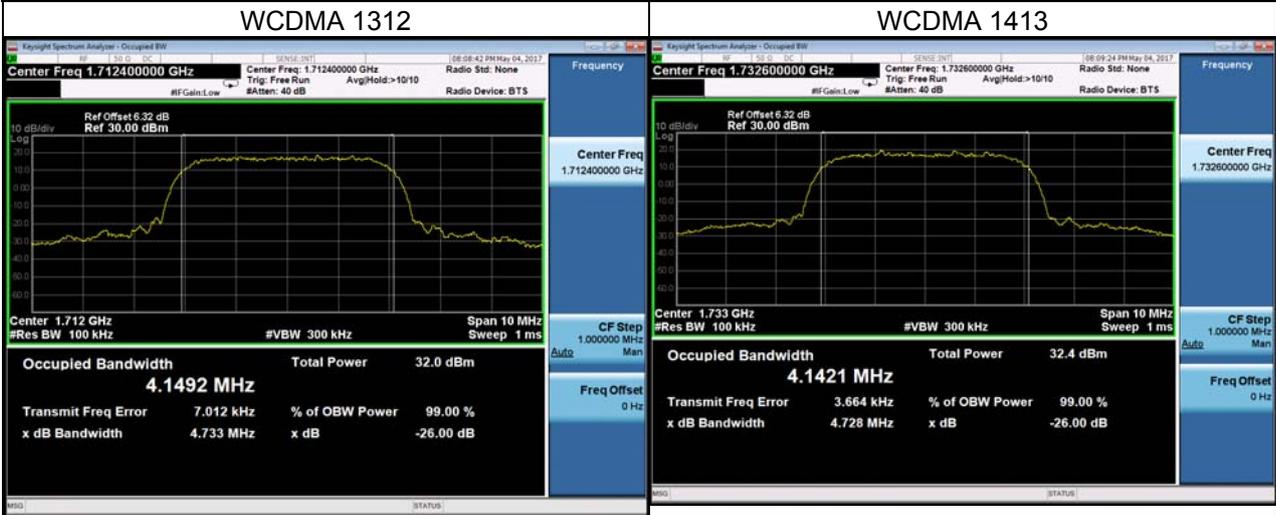
LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				39725 CH	40620 CH	41515 CH
				2503.5MHz	2593.0MHz	2682.5MHz
41 / 15M	QPSK	1	0	24.55	24.52	24.25
		1	37	24.81	24.78	24.51
		1	74	24.53	24.50	24.23
		36	0	23.88	23.85	23.58
		36	19	23.81	23.78	23.51
		36	39	23.72	23.69	23.42
		75	0	23.79	23.76	23.49
	16QAM	1	0	23.63	23.60	23.33
		1	37	23.64	23.61	23.34
		1	74	23.42	23.39	23.12
		36	0	22.99	22.96	22.69
		36	19	22.73	22.70	22.43
		36	39	22.61	22.58	22.31
		75	0	22.74	22.71	22.44

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				39750 CH	40620 CH	41490 CH
				2506.0MHz	2593.0MHz	2680.0MHz
41 / 20M	QPSK	1	0	24.37	24.43	24.31
		1	50	25.00	24.83	24.63
		1	99	24.46	24.41	23.82
		50	0	24.33	23.75	23.62
		50	25	24.00	23.81	23.59
		50	50	23.74	23.49	23.12
		100	0	23.80	23.59	23.38
	16QAM	1	0	23.47	23.09	23.20
		1	50	23.69	23.43	23.15
		1	99	23.23	23.17	22.67
		50	0	22.96	22.72	22.46
		50	25	22.86	22.78	22.42
		50	50	22.80	22.46	22.26
		100	0	22.65	22.52	22.23

ATTACHMENT B - OCCUPIED BANDWIDTH

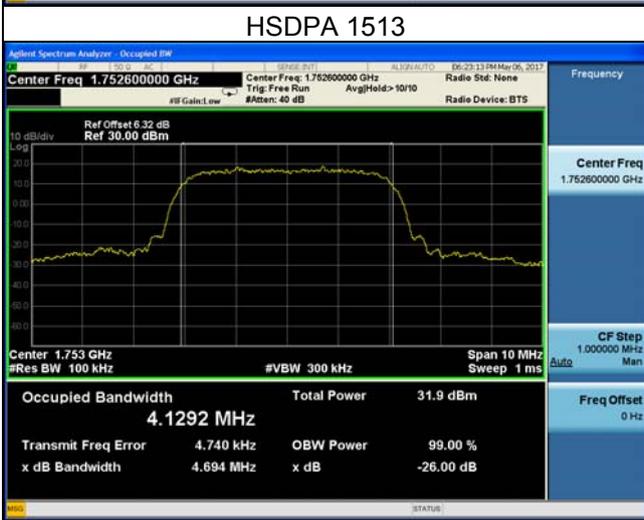
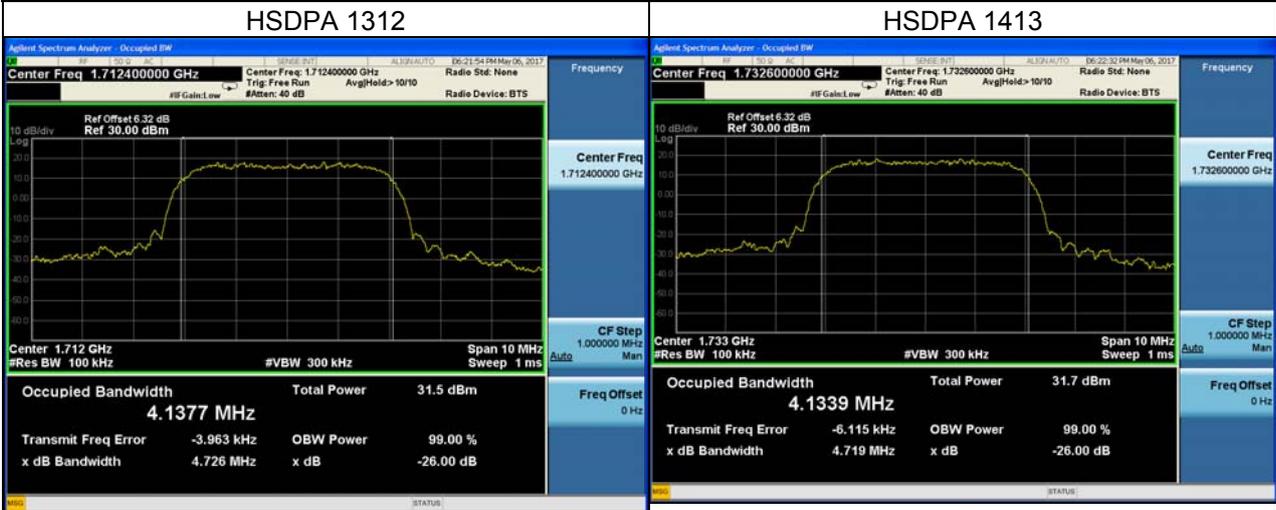
WCDMA Band 4 WCDMA					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
1312	1712.4	4.1492	19957	1710.7	4.733
1413	1732.6	4.1421	20175	1732.5	4.728
1513	1752.6	4.1213	20393	1754.3	4.711

Spectrum Plot



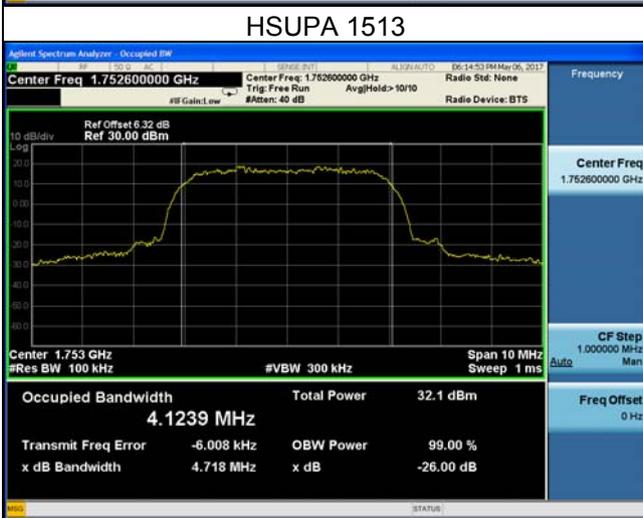
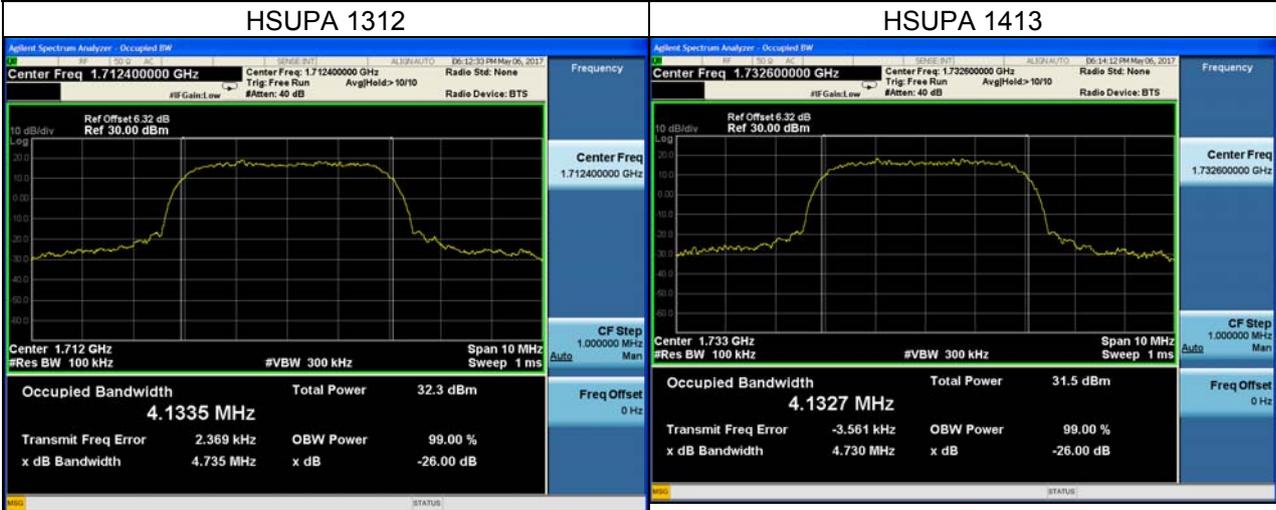
WCDMA Band 4 HSDPA					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
1312	1712.4	4.1377	19957	1710.7	4.726
1413	1732.6	4.1339	20175	1732.5	4.719
1513	1752.6	4.1292	20393	1754.3	4.694

Spectrum Plot



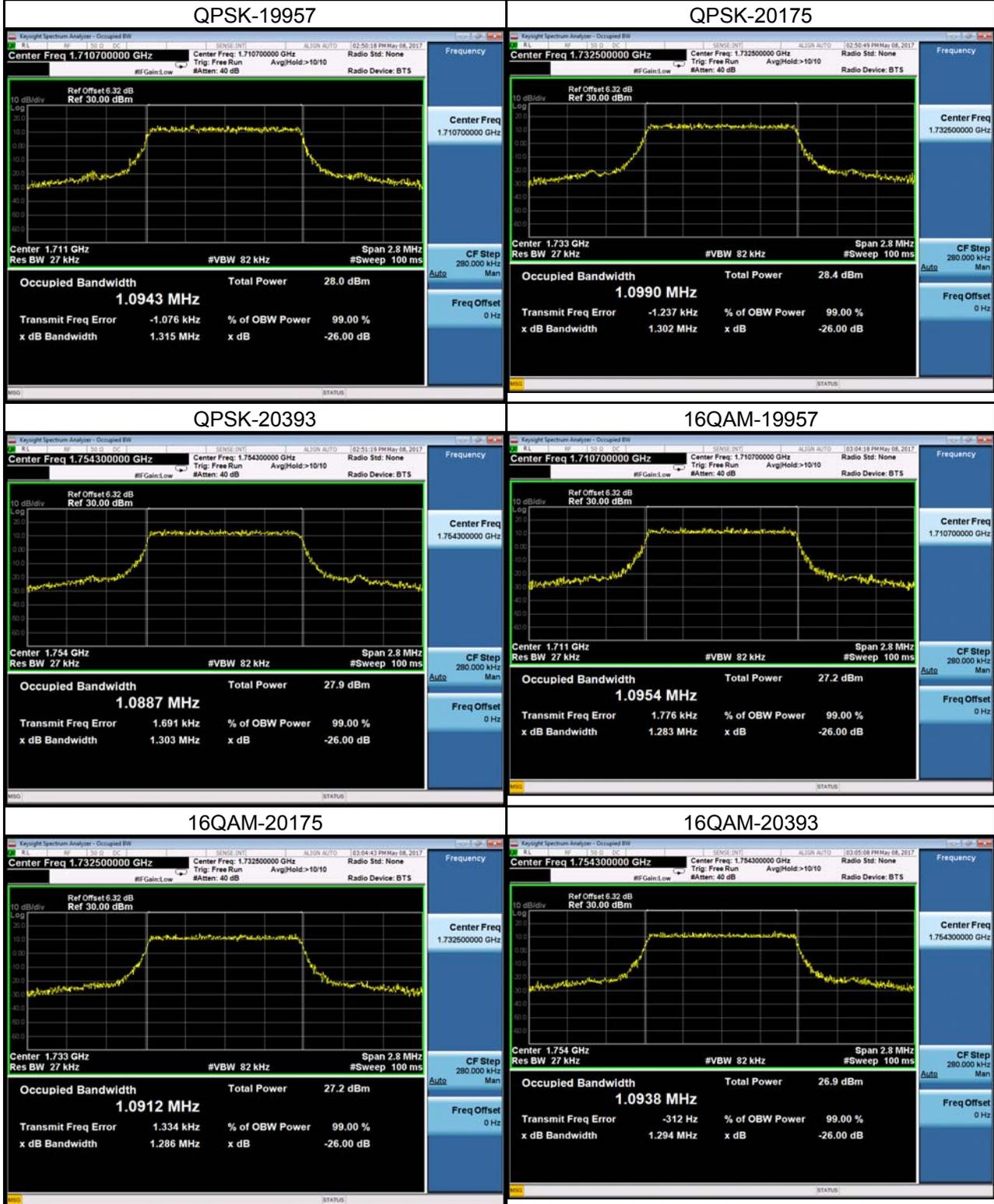
WCDMA Band 4 HSUPA					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
1312	1712.4	4.1335	19957	1710.7	4.735
1413	1732.6	4.1327	20175	1732.5	4.730
1513	1752.6	4.1239	20393	1754.3	4.718

Spectrum Plot



LTE Band 4_1.4M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
19957	1710.7	1.0943	19957	1710.7	1.0954
20175	1732.5	1.0990	20175	1732.5	1.0912
20393	1754.3	1.0887	20393	1754.3	1.9038
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19957	1710.7	1.315	19957	1710.7	1.283
20175	1732.5	1.302	20175	1732.5	1.286
20393	1754.3	1.303	20393	1754.3	1.294

Spectrum Plot



LTE Band 4_3M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
19965	1711.5	2.6959	19965	1711.5	2.6958
20175	1732.5	2.6999	20175	1732.5	2.6995
20385	1753.5	2.7012	20385	1753.5	2.6968
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19965	1711.5	3.003	19965	1711.5	3.014
20175	1732.5	2.983	20175	1732.5	2.977
20385	1753.5	2.973	20385	1753.5	3.010

Spectrum Plot



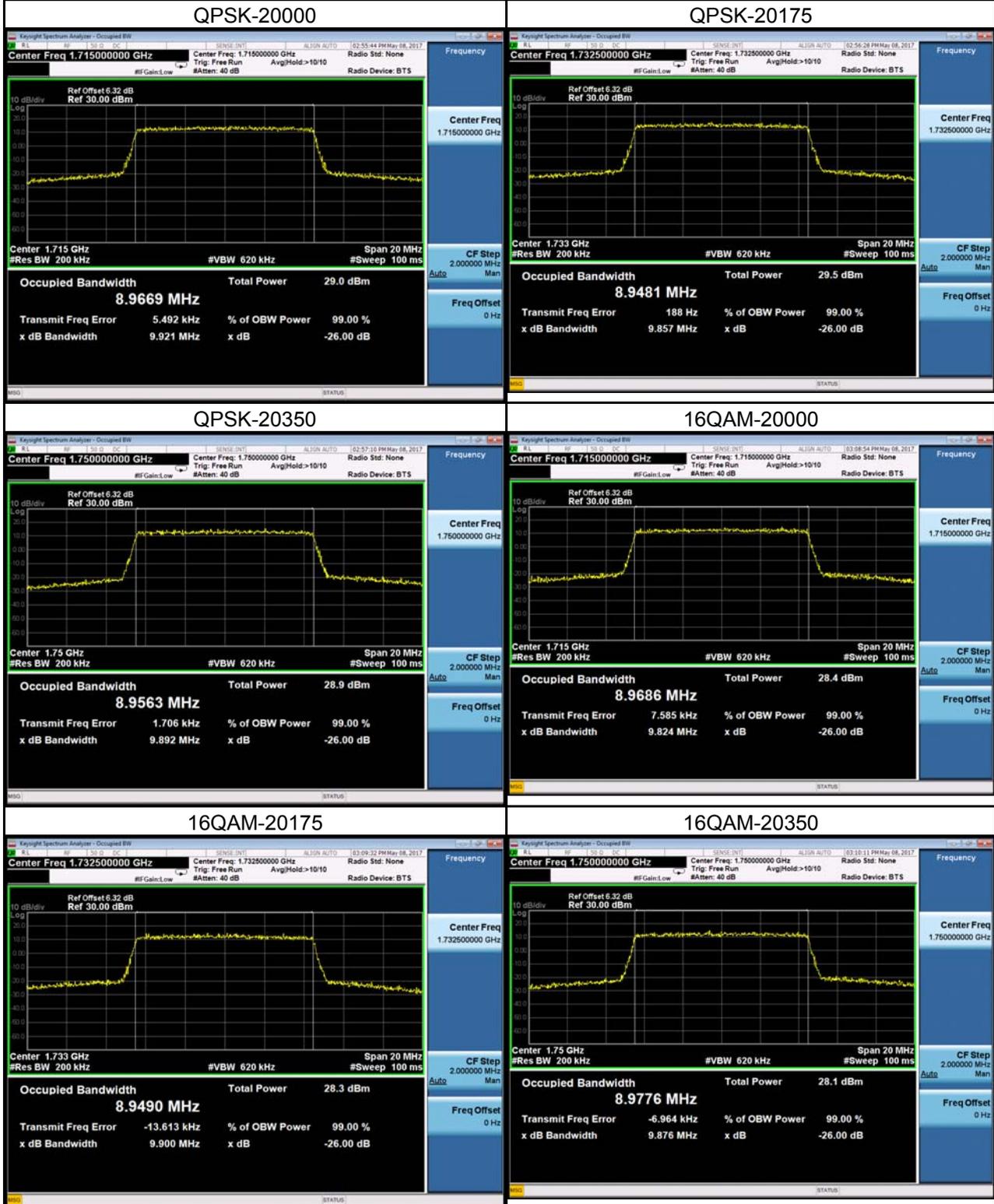
LTE Band 4_5M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
19975	1712.5	4.5198	19975	1712.5	4.4990
20175	1732.5	4.5097	20175	1732.5	4.5076
20375	1752.5	4.5147	20375	1752.5	4.5058
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19975	1712.5	5.022	19975	1712.5	4.991
20175	1732.5	4.948	20175	1732.5	4.976
20375	1752.5	4.949	20375	1752.5	4.971

Spectrum Plot



LTE Band 4_10M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
20000	1715	8.9669	20000	1715	8.9686
20175	1732.5	8.9481	20175	1732.5	8.9490
20350	1750	8.9563	20350	1750	8.9776
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20000	1715	9.921	20000	1715	9.824
20175	1732.5	9.857	20175	1732.5	9.900
20350	1750	9.892	20350	1750	9.876

Spectrum Plot



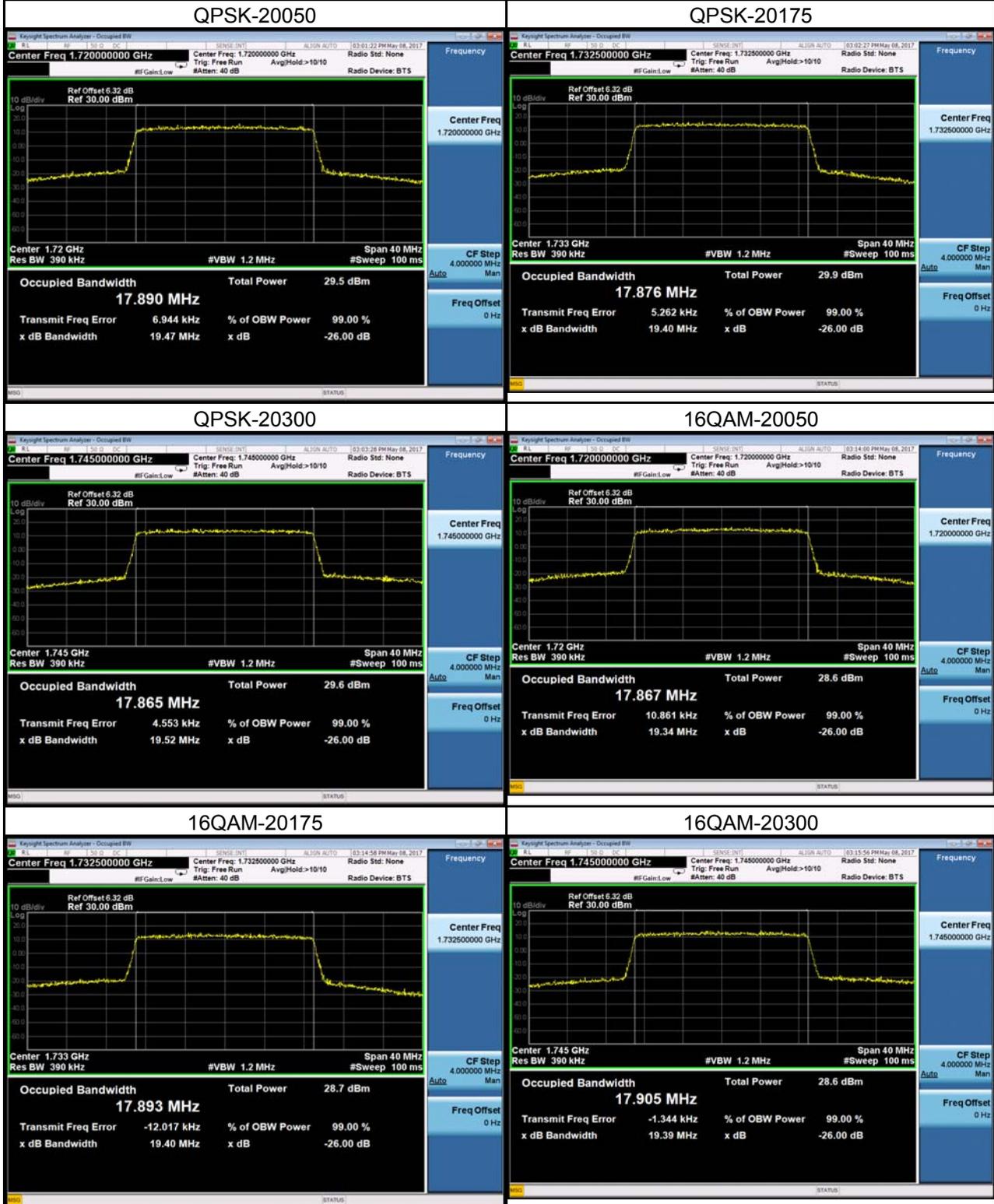
LTE Band 4_15M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
20025	1717.5	13.427	20025	1717.5	13.427
20175	1732.5	13.423	20175	1732.5	13.434
20325	1747.5	13.393	20325	1747.5	13.395
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20025	1717.5	14.79	20025	1717.5	14.62
20175	1732.5	14.62	20175	1732.5	14.71
20325	1747.5	14.74	20325	1747.5	14.63

Spectrum Plot



LTE Band 4_20M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
20050	1720	17.890	20050	1720	17.867
20175	1732.5	17.876	20175	1732.5	17.893
20300	1745	17.865	20300	1745	17.905
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20050	1720	19.47	20050	1720	19.34
20175	1732.5	19.40	20175	1732.5	19.40
20300	1745	19.52	20300	1745	19.39

Spectrum Plot



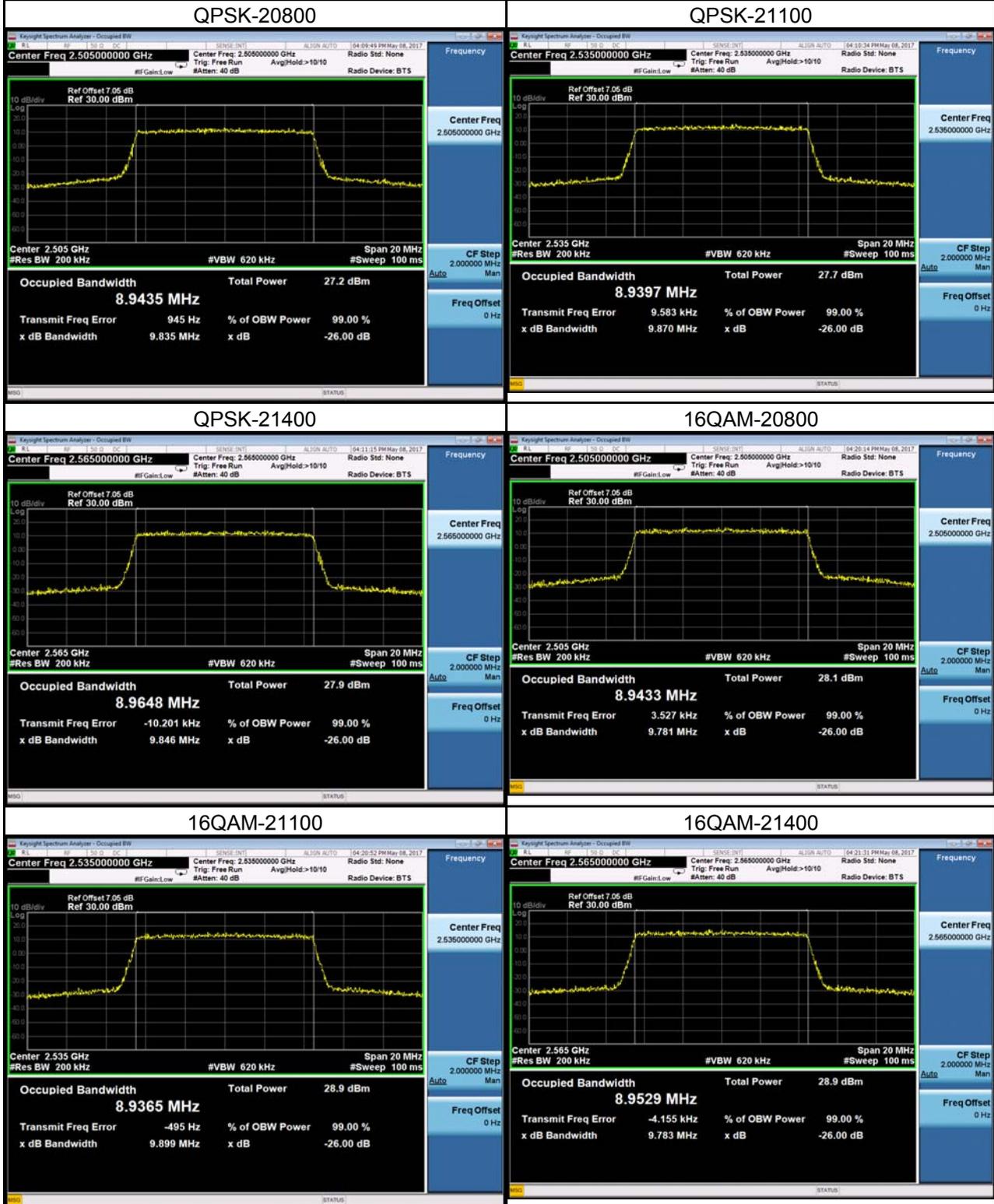
LTE Band 7_5M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
20775	2502.5	4.5092	20775	2502.5	4.5058
21100	2535	4.4947	21100	2535	4.4963
21425	2567.5	4.5022	21425	2567.5	4.4932
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20775	2502.5	5.012	20775	2502.5	4.955
21100	2535	4.997	21100	2535	5.015
21425	2567.5	5.010	21425	2567.5	4.988

Spectrum Plot



LTE Band 7_10M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
20800	2505	8.9435	20800	2505	8.9433
21100	2535	8.9397	21100	2535	8.9365
21400	2565	8.9648	21400	2565	8.9529
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20800	2505	9.835	20800	2505	9.781
21100	2535	9.870	21100	2535	9.899
21400	2565	9.846	21400	2565	9.783

Spectrum Plot



LTE Band 7_15M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
20825	2507.5	13.406	20825	2507.5	13.426
21100	2535	13.403	21100	2535	13.416
21375	2562.5	13.412	21375	2562.5	13.409
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20825	2507.5	14.55	20825	2507.5	14.57
21100	2535	14.60	21100	2535	14.61
21375	2562.5	14.60	21375	2562.5	14.68

Spectrum Plot



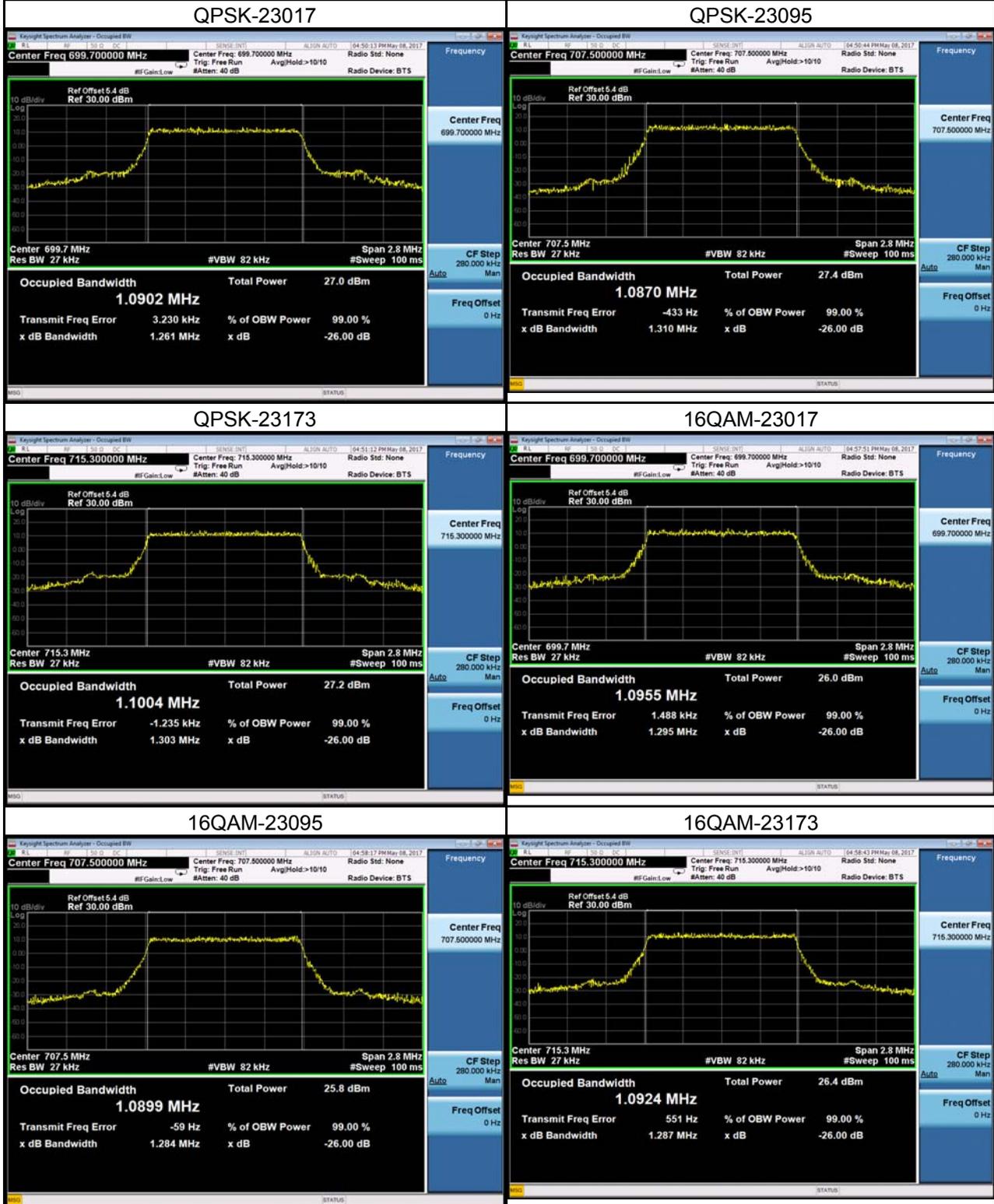
LTE Band 7_20M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
20850	2510	17.883	20850	2510	17.884
21100	2535	17.842	21100	2535	17.837
21350	2560	17.826	21350	2560	17.882
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20850	2510	19.36	20850	2510	19.37
21100	2535	19.36	21100	2535	19.40
21350	2560	19.33	21350	2560	19.46

Spectrum Plot



LTE Band 12_1.4M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23017	699.7	1.0902	23017	699.7	1.0955
23095	707.5	1.0870	23095	707.5	1.0899
23173	715.3	1.1004	23173	715.3	1.0924
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23017	699.7	1.261	23017	699.7	1.295
23095	707.5	1.310	23095	707.5	1.284
23173	715.3	1.303	23173	715.3	1.287

Spectrum Plot



LTE Band 12_3M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23025	700.5	2.7046	23025	700.5	2.6991
23095	707.5	2.6970	23095	707.5	2.6912
23165	714.5	2.7001	23165	714.5	2.6937
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23025	700.5	2.988	23025	700.5	2.990
23095	707.5	2.971	23095	707.5	2.984
23165	714.5	2.974	23165	714.5	2.998

Spectrum Plot



LTE Band 12_5M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23035	701.5	4.5225	23035	701.5	4.5140
23095	707.5	4.4975	23095	707.5	4.4936
23155	713.5	4.5236	23155	713.5	4.5043
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23035	701.5	5.024	23035	701.5	5.001
23095	707.5	4.966	23095	707.5	4.966
23155	713.5	4.966	23155	713.5	4.975

Spectrum Plot



LTE Band 12_10M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23060	704.0	8.9477	23060	704.0	8.9430
23095	707.5	8.9189	23095	707.5	8.9226
23130	711.0	8.9965	23130	711.0	8.9769
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23060	704.0	9.918	23060	704.0	9.835
23095	707.5	9.814	23095	707.5	9.796
23130	711.0	9.861	23130	711.0	9.821

Spectrum Plot



LTE Band 17_5M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23755	706.5	4.5110	23755	706.5	4.4961
23790	710.0	4.5013	23790	710.0	4.4975
23825	713.5	4.5157	23825	713.5	4.5111
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23755	706.5	4.973	23755	706.5	4.971
23790	710.0	4.924	23790	710.0	4.961
23825	713.5	4.998	23825	713.5	4.948

Spectrum Plot



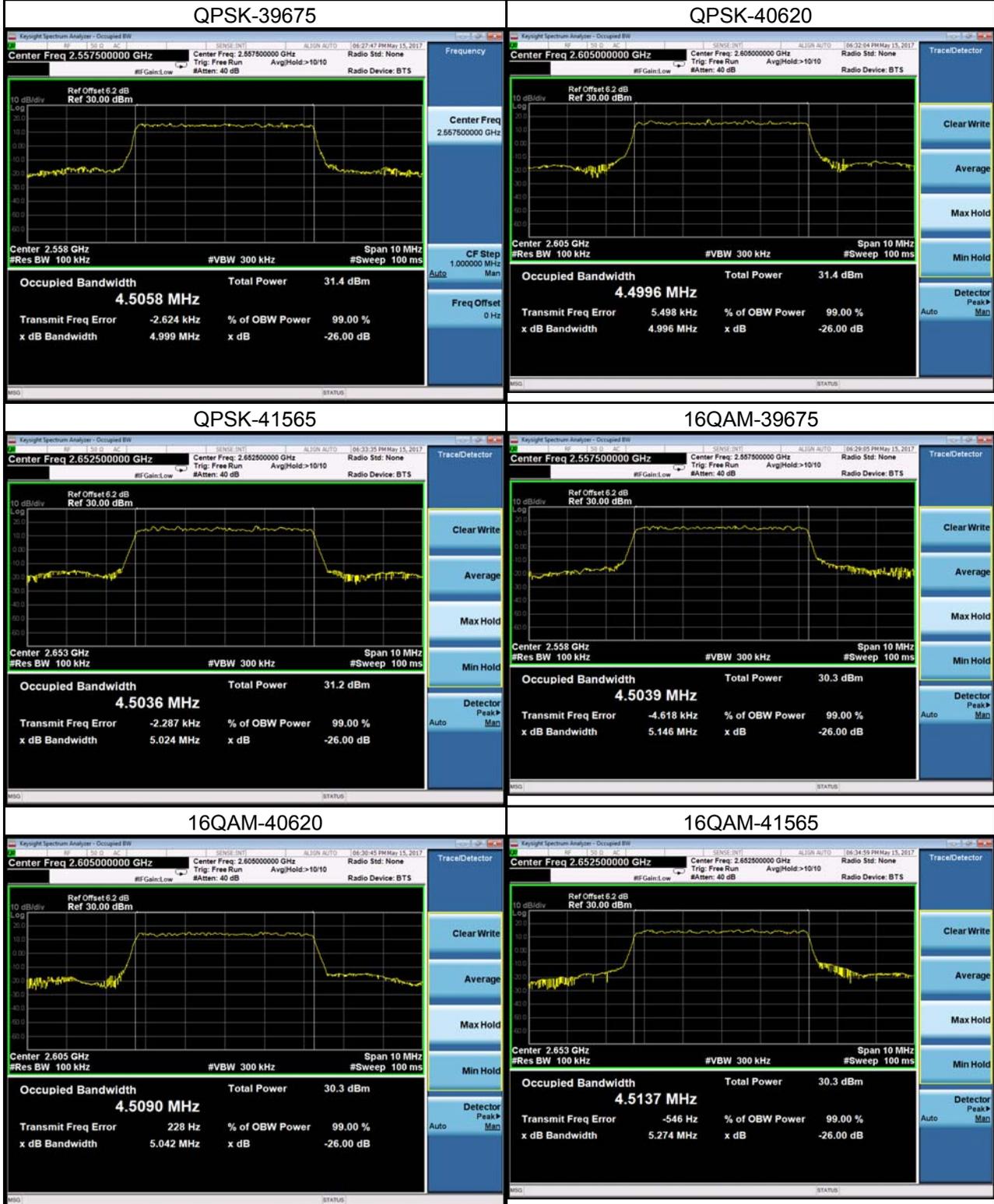
LTE Band 17_10M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23780	709.0	8.9606	23780	709.0	8.9364
23790	710.0	8.9386	23790	710.0	8.9651
23800	711.0	8.9855	23800	711.0	9.6767
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23780	709.0	9.893	23780	709.0	9.828
23790	710.0	9.945	23790	710.0	9.874
23800	711.0	9.901	23800	711.0	9.922

Spectrum Plot



LTE Band 41_5M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
39675	2498.5	4.5058	39675	2498.5	4.5039
40620	2593.0	4.4996	40620	2593.0	4.5090
41565	2687.5	4.5036	41565	2687.5	4.5137
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39675	2498.5	4.999	39675	2498.5	5.146
40620	2593.0	4.996	40620	2593.0	5.042
41565	2687.5	5.024	41565	2687.5	5.274

Spectrum Plot



LTE Band 41_10M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
39700	2501.0	8.9888	39700	2501.0	8.9878
40620	2593.0	9.0103	40620	2593.0	9.0110
41540	2685.0	9.9819	41540	2685.0	8.9502
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39700	2501.0	10.50	39700	2501.0	9.942
40620	2593.0	10.28	40620	2593.0	10.34
41540	2685.0	10.14	41540	2685.0	9.883

Spectrum Plot



LTE Band 41_15M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
39725	2503.5	13.475	39725	2503.5	13.527
40620	2593.0	13.532	40620	2593.0	13.546
41515	2682.5	13.526	41515	2682.5	13.523
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39725	2503.5	15.35	39725	2503.5	15.14
40620	2593.0	18.57	40620	2593.0	15.66
41515	2682.5	16.37	41515	2682.5	16.65

Spectrum Plot



LTE Band 41_20M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
39750	2506.0	17.956	39750	2506.0	18.000
40620	2593.0	17.938	40620	2593.0	17.915
41490	2680.0	17.975	41490	2680.0	17.920
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39750	2506.0	21.01	39750	2506.0	28.40
40620	2593.0	20.26	40620	2593.0	20.09
41490	2680.0	19.43	41490	2680.0	20.04

Spectrum Plot

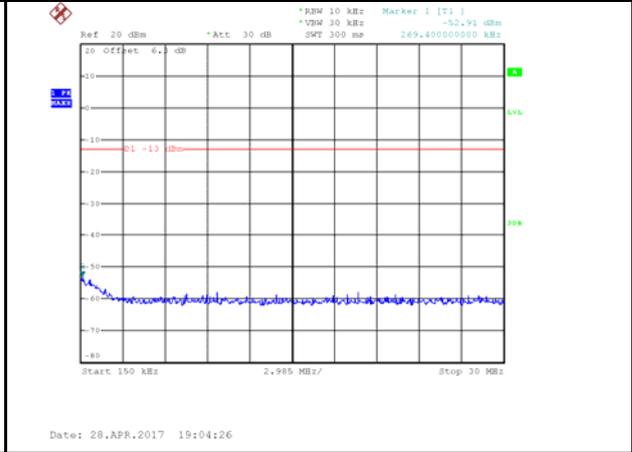
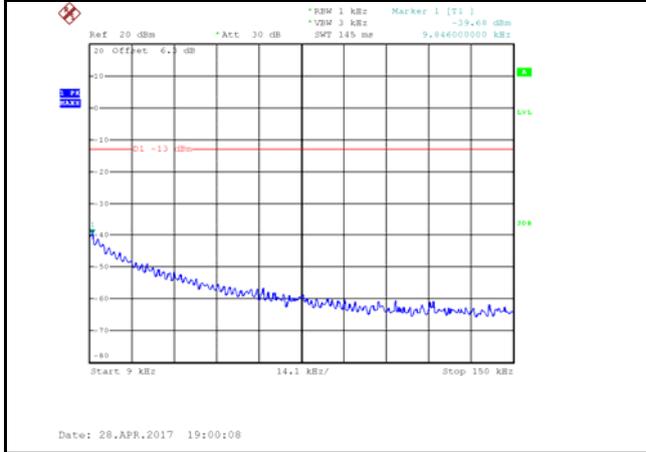


ATTACHMENT C - CONDUCTED EMISSIONS

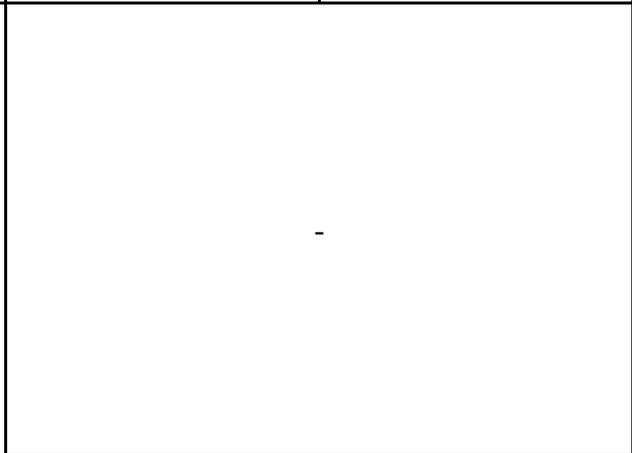
WCDMA Band 4_WCDMA			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
1413	1732.6	1413	1732.6
Channel	Frequency(MHz)	-	-
1413	1732.6	-	-
		-	

WCDMA Band 4_HSDPA

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1413	1732.6	1413	1732.6

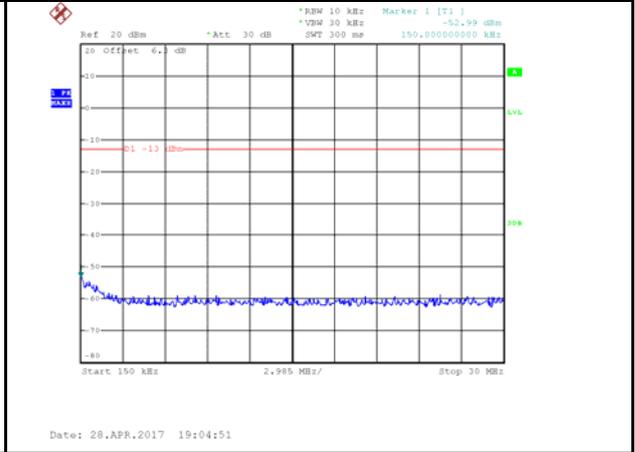
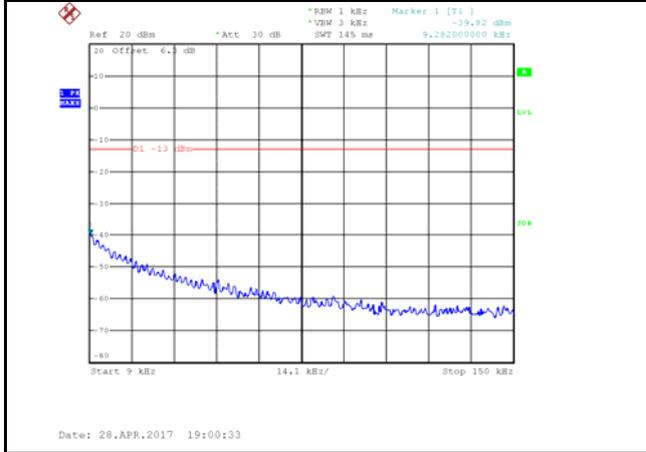


Channel	Frequency(MHz)	-	-
1413	1732.6	-	-

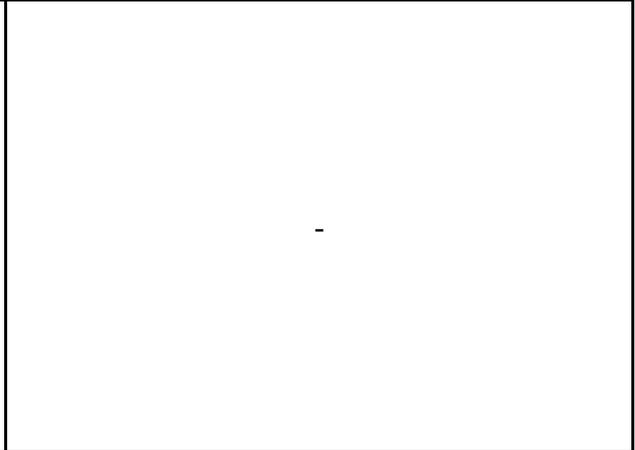


WCDMA Band 4_HSUPA

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1413	1732.6	1413	1732.6



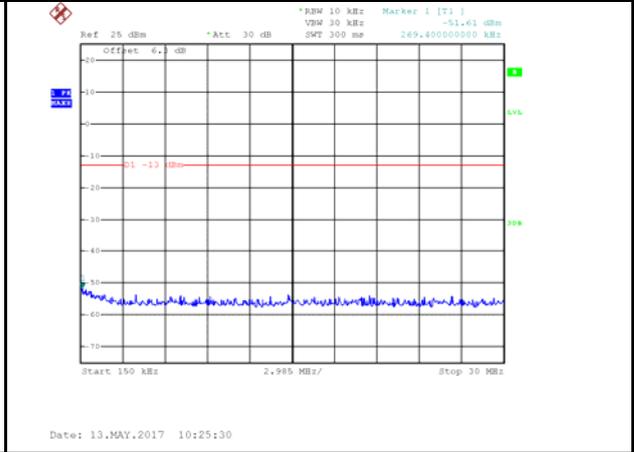
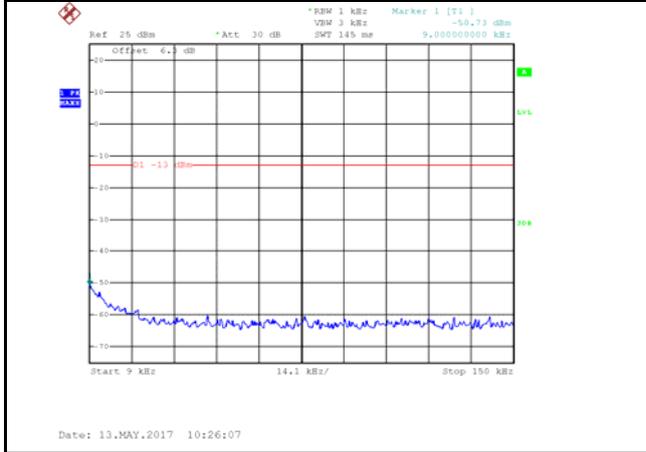
Channel	Frequency(MHz)	-	-
1413	1732.6	-	-



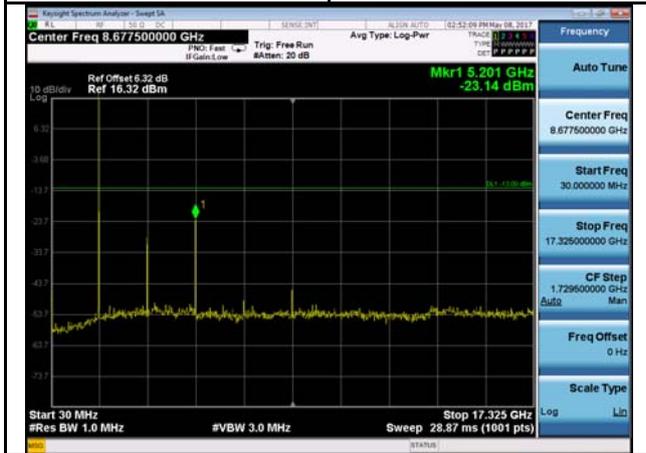
LTE Band 4_1.4M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
20175	1732.5	20175	1732.5
Date: 13.MAY.2017 10:26:41		Date: 13.MAY.2017 10:27:19	
Channel	Frequency(MHz)	-	-
20175	1732.5	-	-

LTE Band 4_3M

Channel	Frequency(MHz)	Channel	Frequency(MHz)
20175	1732.5	20175	1732.5



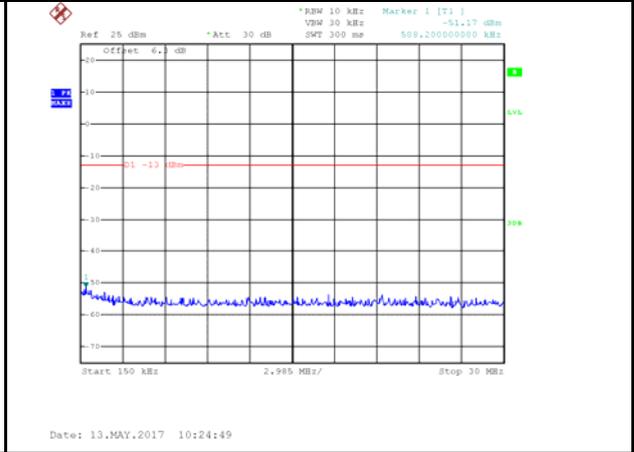
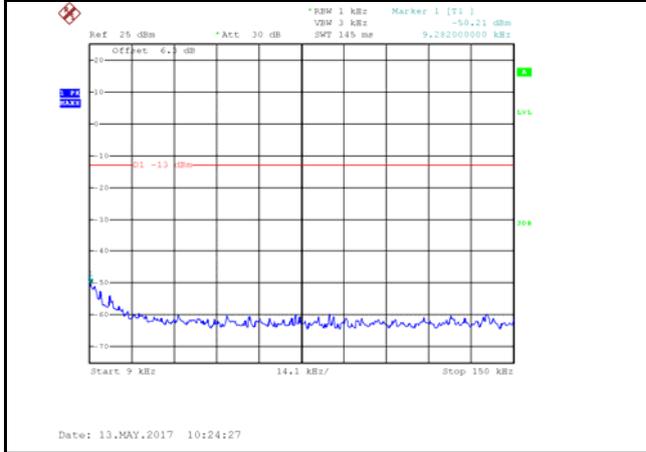
Channel	Frequency(MHz)	-	-
20175	1732.5	-	-



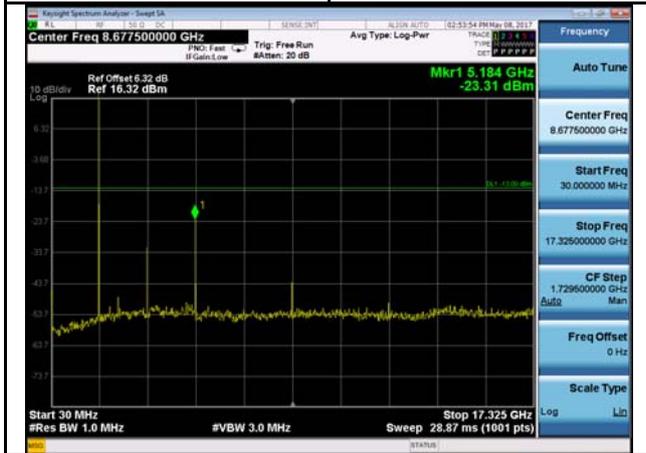
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LTE Band 4_5M

Channel	Frequency(MHz)	Channel	Frequency(MHz)
20175	1732.5	20175	1732.5



Channel	Frequency(MHz)	-	-
20175	1732.5	-	-

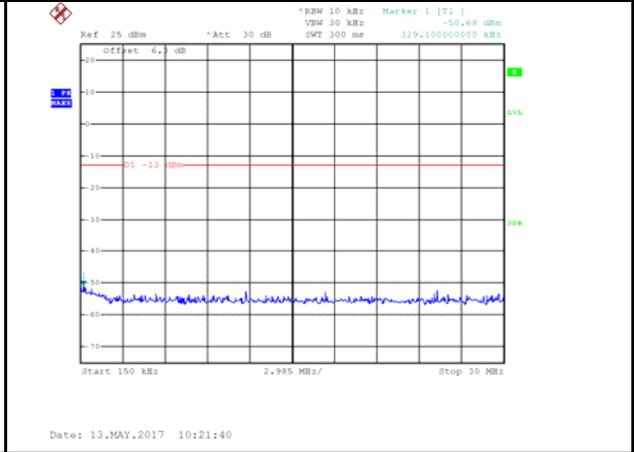
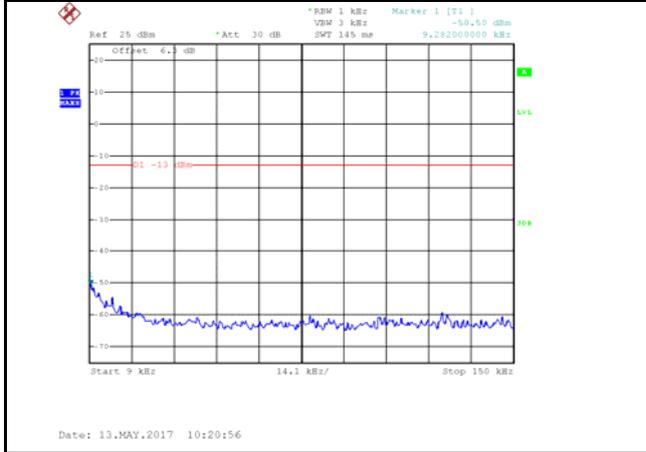


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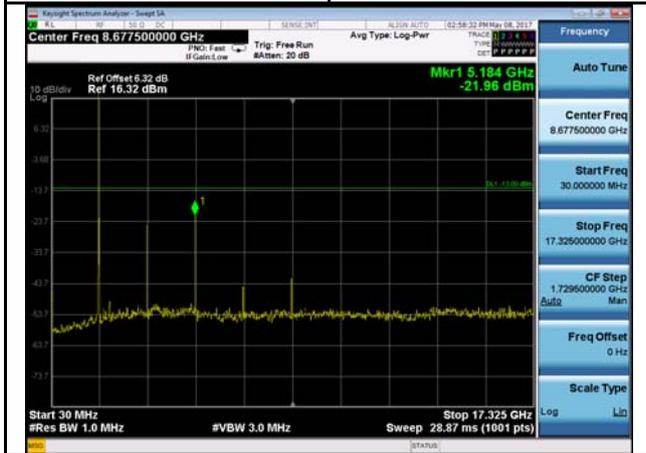
LTE Band 4_10M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
20175	1732.5	20175	1732.5
Date: 13.MAY.2017 10:23:34		Date: 13.MAY.2017 10:23:03	
Channel	Frequency(MHz)	-	-
20175	1732.5	-	-

LTE Band 4_15M

Channel	Frequency(MHz)	Channel	Frequency(MHz)
20175	1732.5	20175	1732.5



Channel	Frequency(MHz)		
20175	1732.5	-	-



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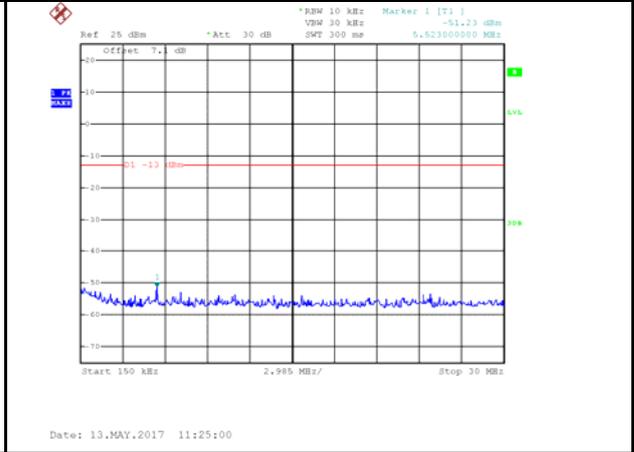
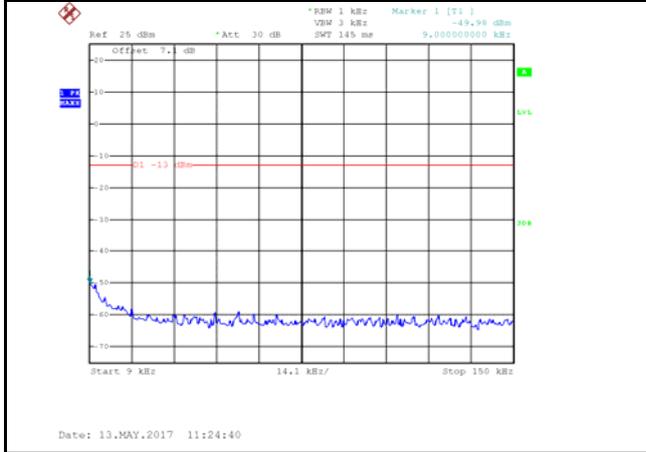
LTE Band 4_20M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
20175	1732.5	20175	1732.5
Date: 13.MAY.2017 10:19:25		Date: 13.MAY.2017 10:20:15	
Channel	Frequency(MHz)	-	-
20175	1732.5	-	-

LTE Band 7_5M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
21100	2535	21100	2535
Date: 13.MAY.2017 11:26:04		Date: 13.MAY.2017 11:26:22	
Channel	Frequency(MHz)	-	-
21100	2535	-	-

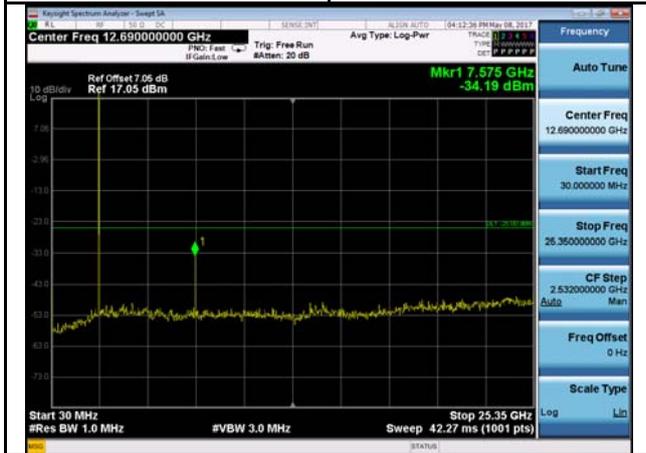
LTE Band 7_10M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
21100	2535	21100	2535
Date: 13.MAY.2017 11:25:43		Date: 13.MAY.2017 11:25:21	
Channel	Frequency(MHz)	-	-
21100	2535	-	-

LTE Band 7_15M

Channel	Frequency(MHz)	Channel	Frequency(MHz)
21100	2535	21100	2535



Channel	Frequency(MHz)	-	-
21100	2535	-	-



-

LTE Band 7_20M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
21100	2535	21100	2535
Date: 13.MAY.2017 11:23:29		Date: 13.MAY.2017 11:23:58	
Channel	Frequency(MHz)	-	-
21100	2535	-	-

LTE Band 12_1.4M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
23095	707.5	23095	707.5
Date: 13.MAY.2017 11:29:39		Date: 13.MAY.2017 11:29:16	
Channel	Frequency(MHz)	-	-
23095	707.5	-	-

LTE Band 12_3M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
23095	707.5	23095	707.5
Date: 13.MAY.2017 11:30:01		Date: 13.MAY.2017 11:30:26	
Channel	Frequency(MHz)	-	-
23095	707.5	-	-

LTE Band 12_5M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
23095	707.5	23095	707.5
Date: 13.MAY.2017 11:28:32		Date: 13.MAY.2017 11:28:53	
Channel	Frequency(MHz)	-	-
23095	707.5	-	-
		-	