

FCC Radio Test Report

FCC ID: 2AUSF-BKW700

This report concerns: **Original Grant**

Project No. : 1909C175
Equipment : Borqs Kids Smartwatch
Brand Name : WatchMeGo
Model Name : BKW700, ANSBKW700
Applicant : BORQS INTERNATIONAL HOLDING CORP
Address : Building B23-A, Universal Business Park, No.10 jiuxianqiao Road, Chaoyang District Beijing, 100015 China
Manufacturer : BORQS INTERNATIONAL HOLDING CORP
Address : Building B23-A, Universal Business Park, No.10 jiuxianqiao Road, Chaoyang District Beijing, 100015 China
Factory : BORQS INTERNATIONAL HOLDING CORP
Address : Building B23-A, Universal Business Park, No.10 jiuxianqiao Road, Chaoyang District Beijing, 100015 China
Date of Receipt : Sep. 27, 2019
Date of Test : Sep. 27, 2019 ~ Dec. 12, 2019
Issued Date : Dec. 17, 2019
Report Version : R00
Test Sample : Engineering Sample No.: DG2019092792 for conducted, DG2019112539 for radiated.
Standard(s) : 47 CFR FCC Part 27 Subpart L
47 CFR FCC Part 27 Subpart H
47 CFR FCC Part 2
ANSI/TIA/EIA-603-E-2016
KDB 971168 D01 Power Meas License Digital Systems v03r01

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



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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

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BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

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.

Please note that the measurement uncertainty is provided for informational purpose only and is not use in determining the Pass/Fail results.

Table of Contents	Page
REPORT ISSUED HISTORY	5
1 . SUMMARY OF TEST RESULTS	6
1.1 TEST FACILITY	7
1.2 MEASUREMENT UNCERTAINTY	7
1.3 TEST ENVIRONMENT CONDITIONS	7
2 . GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF EUT	8
2.2 DESCRIPTION OF TEST MODES	10
2.3 BLOCK DIGRAM SHOWING THECONFIGURATIONOFSYSTEMTESTED	12
3.4 DESCRIPTION OF SUPPORT UNITS	12
3 . TEST RESULT	13
3.1 OUTPUT POWER MEASUREMENT	13
3.1.1 LIMIT	13
3.1.2 TEST PROCEDURE	13
3.1.3 TEST SETUP LAYOUT	13
3.1.4 TEST DEVIATION	13
3.1.5 TEST RESULTS	13
3.2 OCCUPIED BANDWIDTH MEASUREMENT	14
3.2.1 TEST PROCEDURE	14
3.2.2 TEST SETUP LAYOUT	14
3.2.3 TEST DEVIATION	14
3.2.4 TEST RESULTS	14
3.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	15
3.3.1 LIMIT	15
3.3.2 TEST PROCEDURES	15
3.3.3 TEST SETUP LAYOUT	15
3.3.4 TEST DEVIATION	15
3.3.5 TEST RESULTS	15
3.4 RADIATED SPURIOUS EMISSIONS MEASUREMENT	16
3.4.1 LIMIT	16
3.4.2 TEST PROCEDURES	16
3.4.3 TEST SETUP LAYOUT	17
3.4.4 TEST RESULTS (9KHZ TO 30MHZ)	18
3.4.5 TEST RESULTS (30MHZ TO 1000MHZ)	18
3.4.6 TEST RESULTS (ABOVE 1000MHZ)	18
3.5 BAND EDGE MEASUREMENT	19
3.5.1 LIMIT	19
3.5.2 TEST PROCEDURES	19

Table of Contents	Page
3.5.3 TEST SETUP LAYOUT	19
3.5.4 TEST DEVIATION	19
3.5.5 TEST RESULTS	19
3.6 PEAK TO AVERAGE RATIO MEASUREMENT	20
3.6.1 LIMIT	20
3.6.2 TEST PROCEDURES	20
3.6.3 TEST SETUP LAYOUT	20
3.6.4 TEST DEVIATION	20
3.6.5 TEST RESULTS	20
3.7 FREQUENCY STABILITY MEASUREMENT	21
3.7.1 LIMIT	21
3.7.2 TEST PROCEDURES	21
3.7.3 TEST SETUP LAYOUT	21
3.7.4 TEST DEVIATION	21
3.7.5 TEST RESULTS	21
4. LIST OF MEASUREMENT EQUIPMENTS	22
5. EUT TEST PHOTO	24
APPENDIX A - OUTPUT POWER	27
APPENDIX B - OCCUPIED BANDWIDTH	38
APPENDIX C - CONDUCTED SPURIOUS EMISSIONS	59
APPENDIX D - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)	66
APPENDIX E - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1GHZ)	71
APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1GHZ)	84
APPENDIX G - BAND EDGE	97
APPENDIX H - PEAK TO AVERAGE RATIO	108
APPENDIX I - FREQUENCY STABILITY	119

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Dec. 17, 2019

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 27 Subpart L, H & Part 2			
Standard(s) Section	Test Item	Judgment	Remark
2.1046 27.50(d)(4) 27.50(c)(10)	Effective Radiated Power & Equivalent Isotropic Radiated Power	PASS	-----
2.1049	Occupied Bandwidth	PASS	-----
2.1051 27.53(h) 27.53(g)	Conducted Spurious Emissions	PASS	-----
2.1053 27.53(h) 27.53(g)	Radiated Spurious Emissions	PASS	-----
2.1051 27.53(h) 27.53(g)	Band Edge Measurements	PASS	-----
-	Peak To Average Ratio	PASS	Record Only
2.1055 27.54	Frequency Stability	PASS	-----

Note:

(1) "N/A" denotes test is not applicable in this test report.

1.1 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 Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) $k=1.96$ or $k=2$ (which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Measurement Uncertainty for a Level of Confidence of 95 %, $U=2 \times U_c(y)$.

The BTL measurement uncertainty as below table:

A. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U_c (dB)
DG-CB03 (3m)	CISPR	9KHz ~ 30MHz	V	3.79
		9KHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	4.88
		30MHz ~ 200MHz	H	4.14
		200MHz ~ 1,000MHz	V	4.62
		200MHz ~ 1,000MHz	H	4.80

Test Site	Method	Measurement Frequency Range	U_c (dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.58
		6GHz ~ 18GHz	5.18

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Output Power & ERP & EIRP	25.1°C	50.6%	DC 3.8V	Vegeta Li
Occupied Bandwidth	25.1°C	50.6%	DC 3.8V	Vegeta Li
Conducted Spurious Emissions	25.1°C	50.6%	DC 3.8V	Vegeta Li
Radiated Spurious Emissions	24°C	68%	AC 120V/60Hz	Berton Luo
Band Edge	25.1°C	50.6%	DC 3.8V	Vegeta Li
Peak to Average Ratio	25.1°C	50.6%	DC 3.8V	Vegeta Li
Frequency Stability	Normal and Extreme			Vegeta Li

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Borqs Kids Smartwatch			
Brand Name	WatchMeGo			
Model Name	BKW700, ANSBKW700			
Model Difference(s)	Only differ in model name.			
Hardware Version	DVT1			
Software Version	SW_MD_034_190920_GCF_USERDEBUG			
Power Source	1# Supplied from battery. Model: ZWD512724V 2# DC Voltage supplied from AC/DC adapter. Model: A18A-050100U-US2 3# Supplied from USB port.			
Power Rating	1# DC 4.35V(Limited Charge), 400mAh 2# Input: 100-240V~, 50/60Hz, Max 0.2A, Output:5V  1A 3# DC 5V 1A			
IEMI No.	Radiated	866027035004528		
	Conducted	866027035001201		
Modulation Type	UL: QPSK,16QAM DL: QPSK,16QAM			
Max. EIRP	LTE	Channel Bandwidth (MHz)	QPSK (dBm)	16QAM (dBm)
	Band 4	1.4	21.22	20.16
		3	21.13	20.01
		5	21.06	20.21
		10	21.21	20.30
		15	21.05	20.00
		20	21.22	20.07
Max. ERP	Band 12	1.4	20.66	19.60
		3	20.67	19.59
		5	20.58	19.69
		10	20.66	19.56

Note:

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

2. Channel List:

LTE Band 4					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	19957	1710.7	1957	2110.7
	3	19965	1711.5	1965	2111.5
	5	19975	1712.5	1975	2112.5
	10	20000	1715	2000	2115
	15	20025	1717.5	2025	2117.5
	20	20050	1720	2050	2120
Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
High Range	1.4	20393	1754.3	2393	2154.3
	3	20385	1753.5	2385	2153.5
	5	20375	1752.5	2375	2152.5
	10	20350	1750	2350	2150
	15	20325	1747.5	2325	2147.5
	20	20300	1745	2300	2145

LTE Band 12					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	23017	699.7	5017	729.7
	3	23025	700.5	5023	730.5
	5	23035	701.5	5035	731.5
	10	23060	704	5060	734
Mid Range	1.4/3/5/10	23095	707.5	5095	737.5
High Range	1.4	23173	715.3	5173	745.3
	3	23165	714.5	5163	744.5
	5	23155	713.5	5155	743.5
	10	23130	711	5130	741

3. Table for Filed Antenna:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	Internal	N/A	-2	LTE Band 4
N/A	N/A	Internal	N/A	0	LTE Band 12

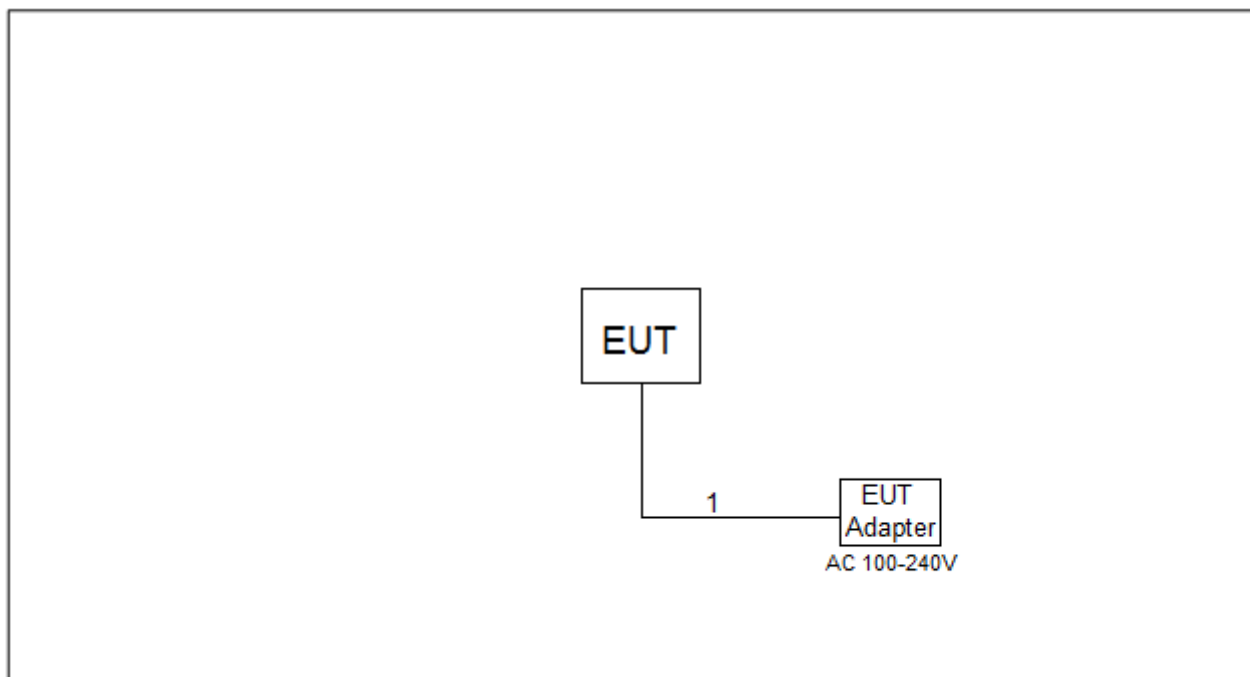
2.2 DESCRIPTION OF TEST MODES

Following mode(s) is (were) found to be the worst case(s) and selected for the final test.

LTE BAND 4 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & 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 Spurious Emissions	19957 to 20393	20175	1.4MHz	QPSK	1RB
	19975 to 20375	20175	5MHz	QPSK	1RB
	20050 to 20300	20175	20MHz	QPSK	1RB
Radiated Spurious Emissions	19957 to 20393	20175	1.4MHz	QPSK	1RB
	19975 to 20375	20175	5MHz	QPSK	1RB
	20050 to 20300	20175	20MHz	QPSK	1RB
Band Edge	19957 to 20393	19957, 20393	1.4MHz	QPSK	1RB/6RB
	19965 to 20385	19965, 20385	3MHz	QPSK	1RB/15RB
	19975 to 20375	19975, 20375	5MHz	QPSK	1RB/25RB
	20000 to 20350	20000, 20350	10MHz	QPSK	1RB/50RB
	20025 to 20325	20025, 20325	15MHz	QPSK	1RB/75RB
	20050 to 20300	20050, 20300	20MHz	QPSK	1RB/100RB
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 12 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & ERP	23017 to 13173	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
Occupied Bandwidth	23017 to 13173	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
Conducted Spurious Emissions	23017 to 13173	23095	1.4MHz	QPSK	1RB
	23035 to 23155	23095	5MHz	QPSK	1RB
	23060 to 23130	23095	10MHz	QPSK	1RB
Radiated Spurious Emissions	23017 to 13173	23095	1.4MHz	QPSK	1RB
	23035 to 23155	23095	5MHz	QPSK	1RB
	23060 to 23130	23095	10MHz	QPSK	1RB
Band Edge	23017 to 13173	23017, 23173	1.4MHz	QPSK	1RB/6RB
	23025 to 23165	23025, 23165	3MHz	QPSK	1RB/15RB
	23035 to 23155	23035, 23155	5MHz	QPSK	1RB/25RB
	23060 to 23130	23060, 23130	10MHz	QPSK	1RB/50RB
Peak To Average Ratio	23017 to 13173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	1RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	1RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	1RB
Frequency Stability	23017 to 13173	23095	1.4MHz	QPSK	1RB
	23025 to 23165	23095	3MHz	QPSK	1RB
	23035 to 23155	23095	5MHz	QPSK	1RB
	23060 to 23130	23095	10MHz	QPSK	1RB

2.3 BLOCK DIGRAM SHOWING THECONFIGURATIONOFSYSTEMTESTED



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.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	0.8m

3. TEST RESULT

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMIT

Mobile / Portable station are limited to 1 watts e.i.r.p. (Part 27 Subpart L)

Mobile / Portable station are limited to 3 watts e.r.p. (Part 27 Subpart H)

3.1.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.

EIRP / ERP:

$EIRP = \text{Output Power} + \text{Antenan gain}$

$ERP = EIPR - 2.15dBi.$

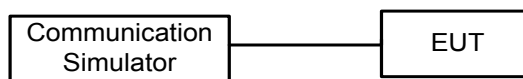
Output Power:

The EUT was set up for the maximum power with 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.

3.1.3 TEST SETUP LAYOUT

Output Power Measurement



3.1.4 TEST DEVIATION

No deviation

3.1.5 TEST RESULTS

Please refer to the APPENDIX A.

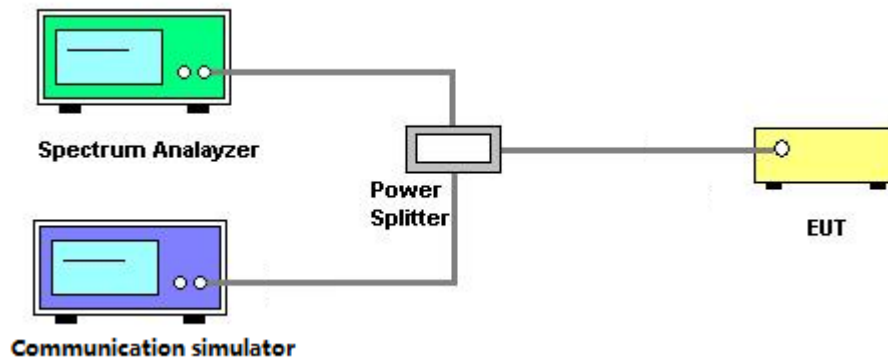
3.2 OCCUPIED BANDWIDTH MEASUREMENT

3.2.1 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 4.

1. 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.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. $RBW = (1\% \sim 5\%) * EBW$
 $VBW \geq 3 * RBW$
4. Set spectrum analyzer with Peak detector.

3.2.2 TEST SETUP LAYOUT



3.2.3 TEST DEVIATION

No deviation

3.2.4 TEST RESULTS

Please refer to the APPENDIX B.

3.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

3.3.1 LIMIT

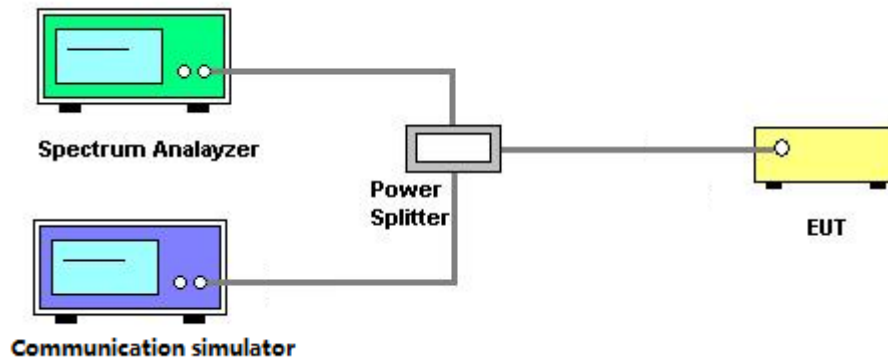
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

3.3.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW>=1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with Peak detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.3.3 TEST SETUP LAYOUT



3.3.4 TEST DEVIATION

No deviation

3.3.5 TEST RESULTS

Please refer to the APPENDIX C.

3.4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

3.4.1 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.

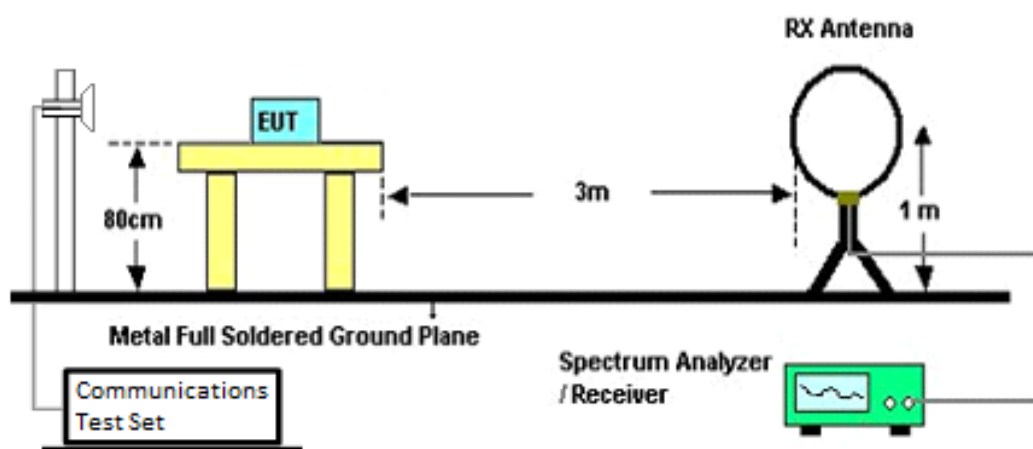
3.4.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.2.

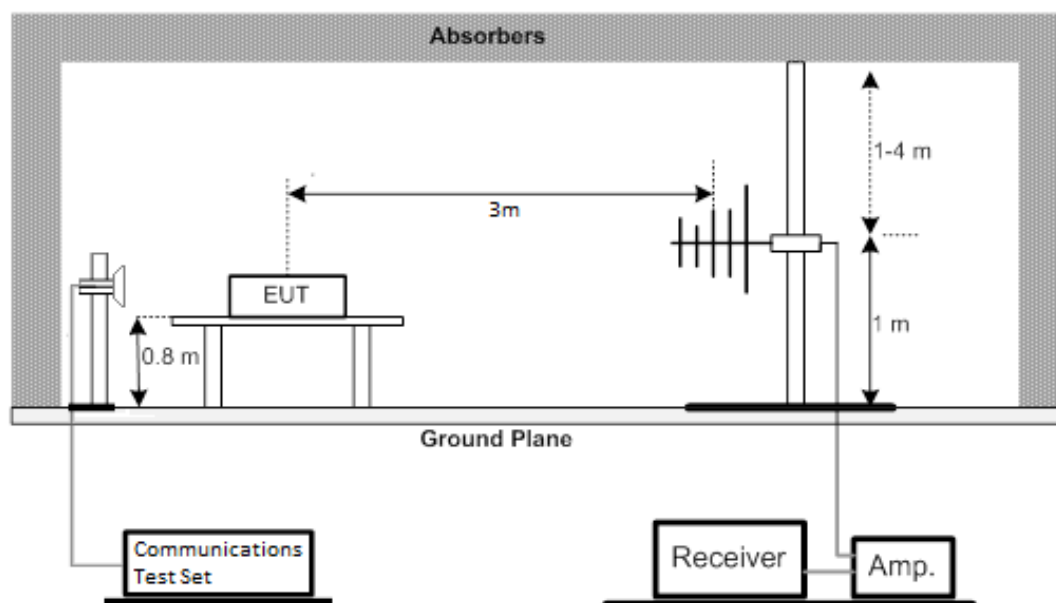
1. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. 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. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
4. ERP can be calculated form EIRP by subtracting the gain of dipole, $ERP = EIPR - 2.15\text{dBi}.$
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

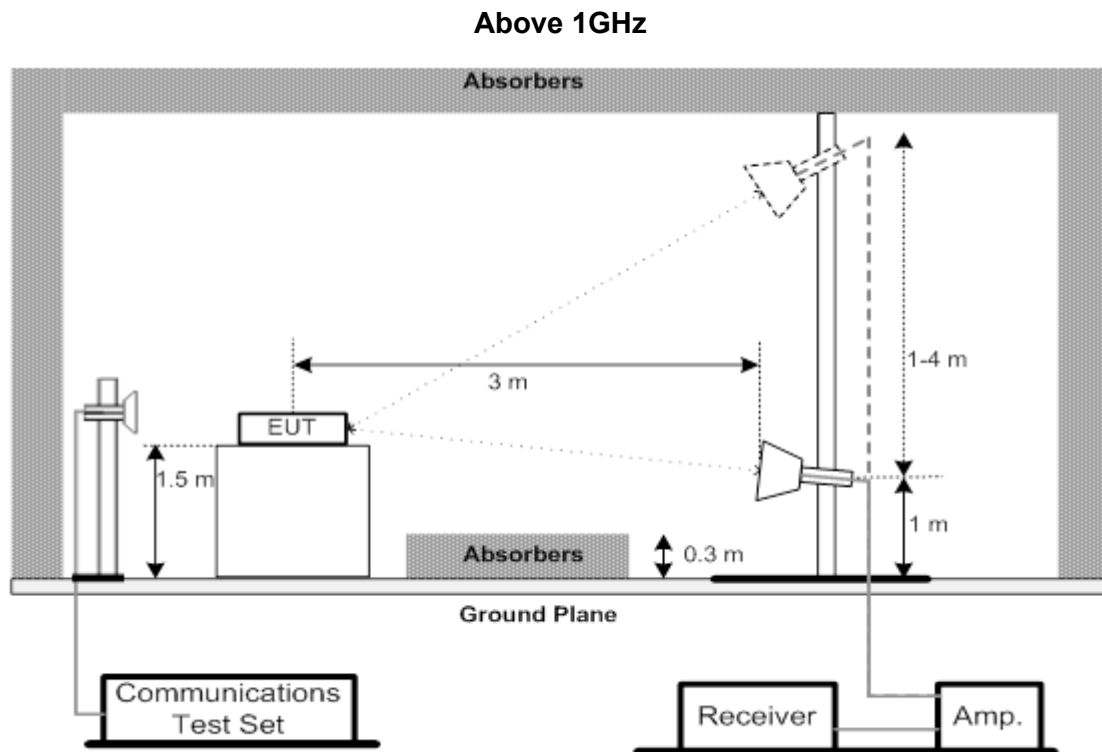
3.4.3 TEST SETUP LAYOUT

Below 30MHz



30MHz to 1GHz





3.4.4 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the APPENDIX D.

3.4.5 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the APPENDIX E.

3.4.6 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the APPENDIX F.

3.5 BAND EDGE MEASUREMENT

3.5.1 LIMIT

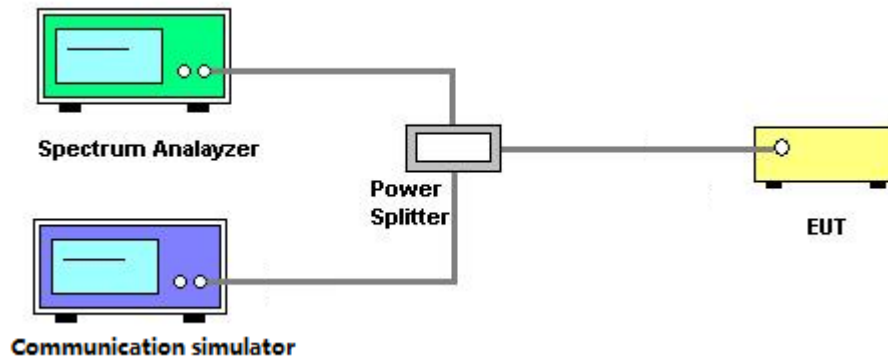
The power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation 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.

3.5.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

1. All measurements were done at low and high operational frequency range.
2. Record the max trace plot into the test report.

3.5.3 TEST SETUP LAYOUT



3.5.4 TEST DEVIATION

No deviation

3.5.5 TEST RESULTS

Please refer to the APPENDIX G.

3.6 PEAK TO AVERAGE RATIO MEASUREMENT

3.6.1 LIMIT

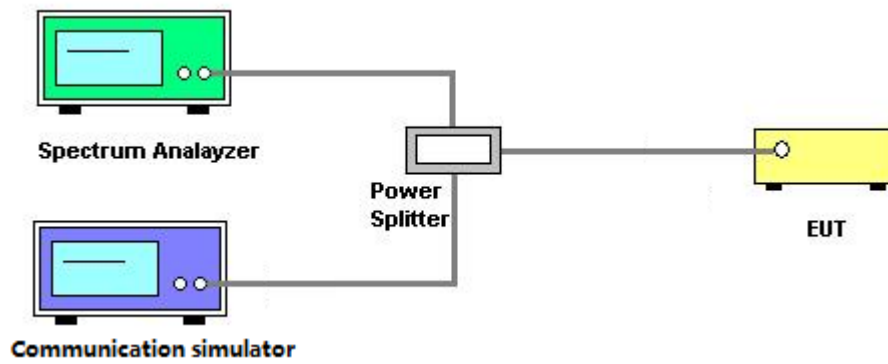
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.6.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 5.7.

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%.

3.6.3 TEST SETUP LAYOUT



3.6.4 TEST DEVIATION

No deviation

3.6.5 TEST RESULTS

Please refer to the APPENDIX H.

3.7 FREQUENCY STABILITY MEASUREMENT

3.7.1 LIMIT

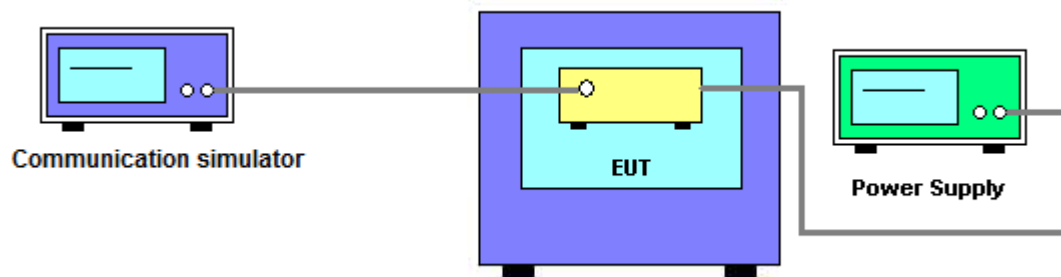
± 1.5 ppm is for base and fixed station. ± 2.5 ppm is for mobile station.

3.7.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 9.

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.

3.7.3 TEST SETUP LAYOUT



3.7.4 TEST DEVIATION

No deviation

3.7.5 TEST RESULTS

Please refer to the APPENDIX I.

4. LIST OF MEASUREMENT EQUIPMENTS

Radiated Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2020
2	Amplifier	Agilent	8449B	3008A02274	Mar. 10, 2020
3	HighPass Filter	Wairwright Instruments Gmbh	WHK 1.5/15G-10ST	11	Mar. 10, 2020
4	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 1710/1785-1690/1805-60/12SS	38	Mar. 10, 2020
5	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 824/849-810/863-60/9 SS	7	Mar. 10, 2020
6	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 880/915-860/935-60/9 SS	14	Mar. 10, 2020
7	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 1850/1910-1830/1930-60/10SS	17	Mar. 10, 2020
8	HighPass Filter	Wairwright Instruments Gmbh	WHK3.1/18G-10SS	24	Mar. 10, 2020
9	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Mar. 10, 2020
10	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 10, 2020
11	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
12	wideband radio communication tester	R&S	CMW500	152372	Mar. 10, 2020
13	High pass filter	KANGMAIWEI	ZHPF-M3-12.75G-3869	B2015073763	Feb. 12, 2020
14	High pass filter	KANGMAIWEI	ZHPF-M1000-4000-1	B2015073762	Feb. 12, 2020
15	High pass filter	KANGMAIWEI	ZHPF-M6-186-1727	B2015073764	Feb. 12, 2020
16	Cable	emci	LMR-400(30MHz-1GHz)(8m+5m)	N/A	May 24, 2020
17	Cable	mitron	B10-01-01-12M	18072744	Jun. 29, 2020
18	Controller	ETS-Lindgren	2090	N/A	N/A
19	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
20	Loop Antenna	EM	EM-6876-1	230	Jan. 15, 2020
21	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 09, 2020
22	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2020

Conducted Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Mar. 10, 2020
2	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 10, 2020
3	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	331000910-1	Mar. 10, 2020
4	wideband radio communication tester	R&S	CMW500	152372	Mar. 10, 2020

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Mar. 10, 2020
2	Multi-output DC Power Supply	GW Instek	GPC-3030DN	EK880675	Sep. 26, 2020
3	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	331000910-1	Mar. 10, 2020
4	wideband radio communication tester	R&S	CMW500	152372	Mar. 10, 2020
5	Const Temp,& Humidity Chamber	Bell	BTH-50C	20170306001	Mar. 10, 2020

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

5. EUT TEST PHOTO

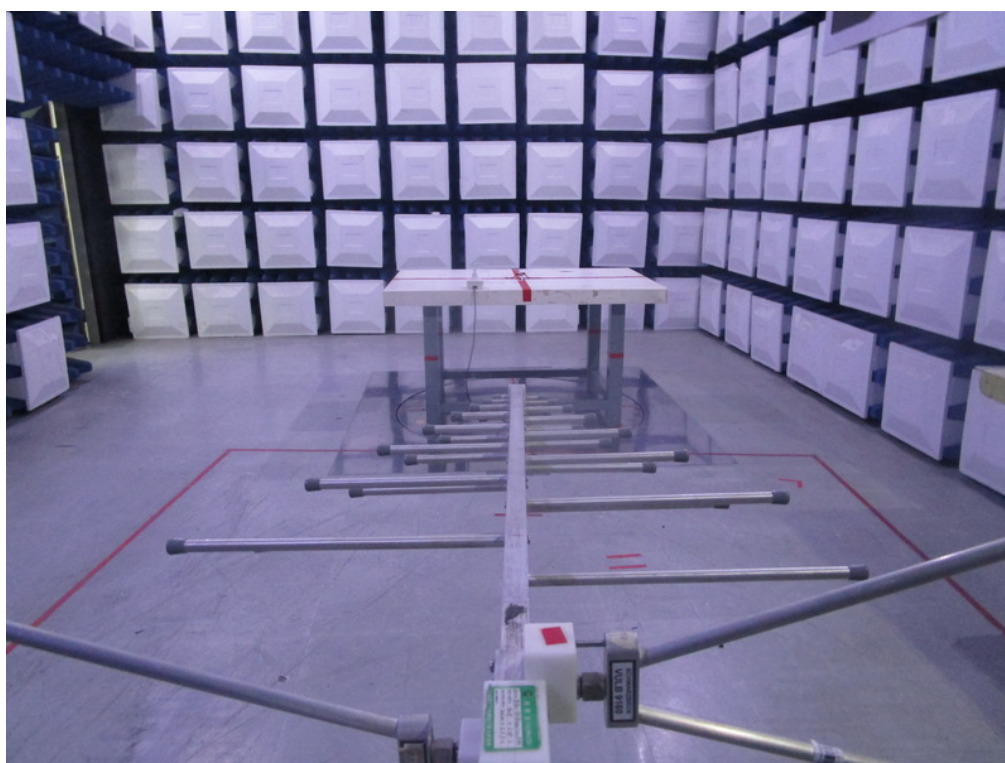
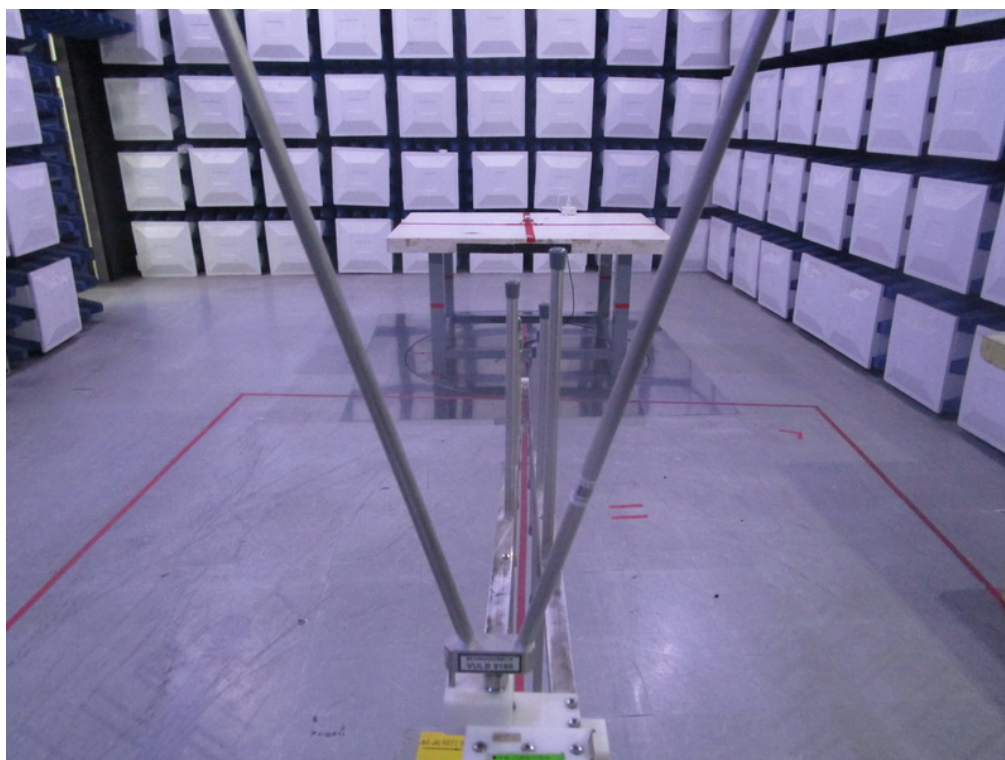
Radiated Emissions Test Photos

9 kHz to 30 MHz



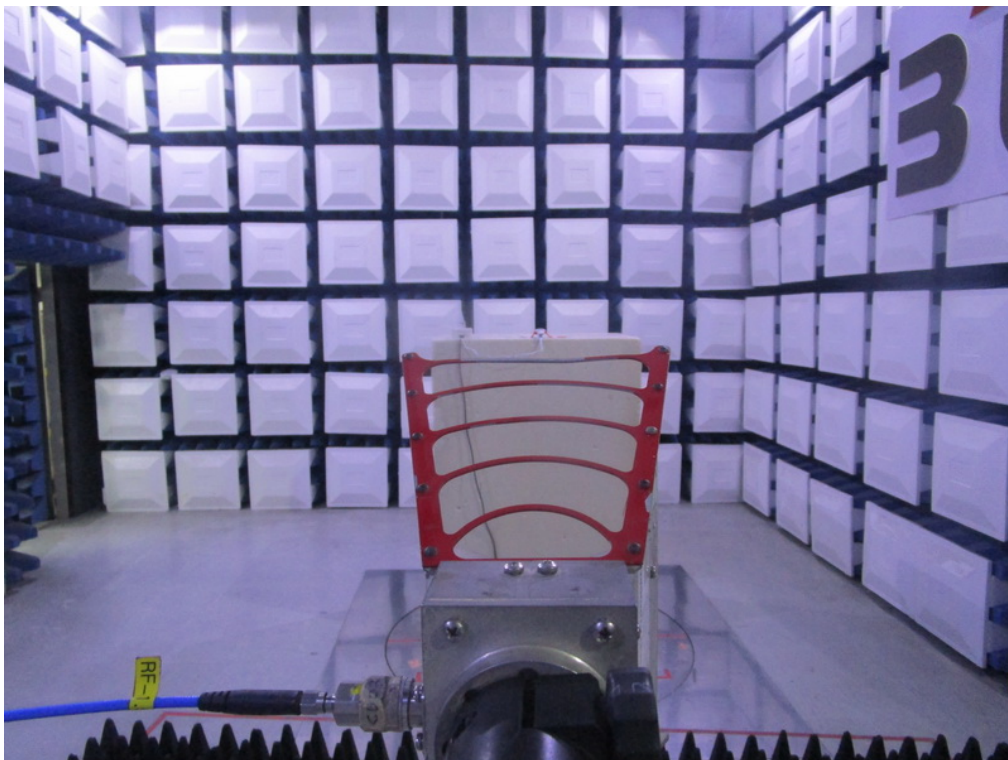
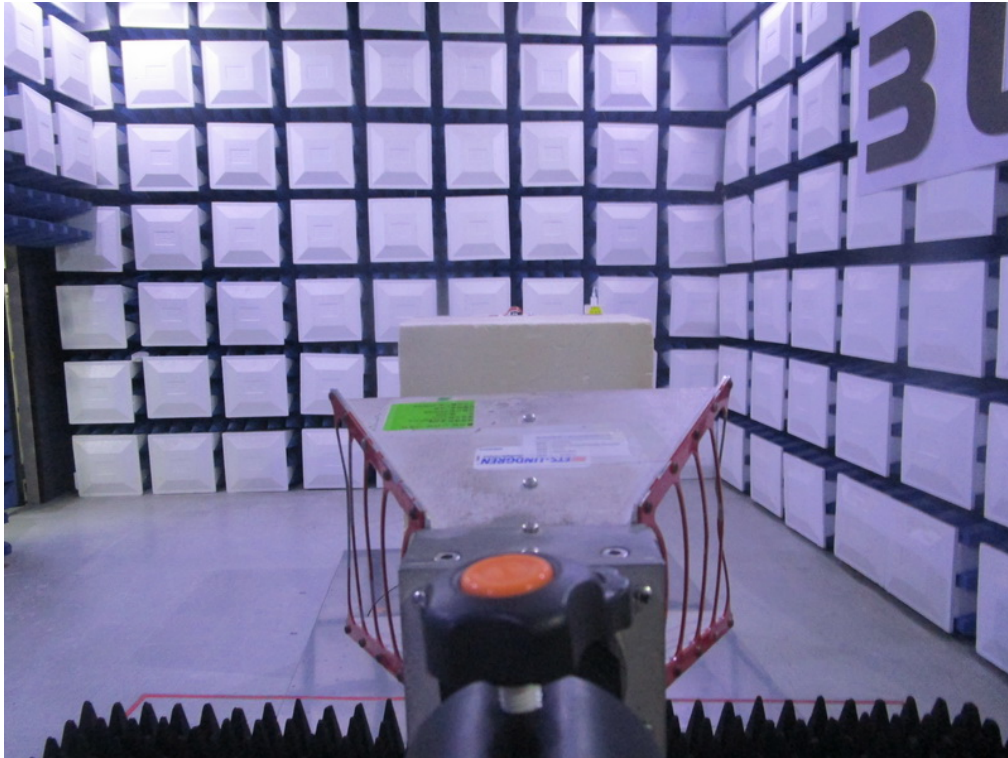
Radiated Emissions Test Photos

30 MHz to 1 GHz



Radiated Emissions Test Photos

Above 1 GHz



APPENDIX A - OUTPUT POWER

Output Power (dBm):

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19957CH	20175CH	20393CH
				1710.7MHz	1732.5MHz	1754.3MHz
4 / 1.4M	QPSK	1	0	22.25	23.08	22.84
		1	2	22.30	23.22	22.92
		1	5	22.26	23.13	22.88
		3	0	22.28	23.09	22.79
		3	1	22.22	23.01	22.76
		3	2	22.20	22.95	22.75
		6	0	21.30	22.01	21.83
	16QAM	1	0	21.48	22.12	21.93
		1	2	21.51	21.96	22.01
		1	5	21.47	21.87	21.99
		3	0	21.22	22.16	21.77
		3	1	21.30	21.99	21.89
		3	2	21.29	22.03	21.93
		6	0	20.29	21.05	20.75

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19965CH	20175CH	20385CH
				1711.5MHz	1732.5MHz	1753.5MHz
4 / 3M	QPSK	1	0	22.32	23.04	22.86
		1	7	22.28	23.06	22.71
		1	14	22.31	23.13	22.78
		8	0	21.30	22.02	21.82
		8	4	21.32	22.02	21.85
		8	7	21.33	22.05	21.78
		15	0	21.29	22.05	21.87
	16QAM	1	0	21.47	22.00	21.88
		1	7	21.36	21.81	21.91
		1	14	21.54	21.70	22.01
		8	0	20.35	20.94	20.81
		8	4	20.30	21.00	20.78
		8	7	20.39	21.04	20.80
		15	0	20.30	20.99	20.80

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19975CH	20175CH	20375CH
				1712.5MHz	1732.5MHz	1752.5MHz
4 / 5M	QPSK	1	0	22.11	22.92	23.06
		1	13	22.27	23.04	22.94
		1	24	22.24	22.99	22.94
		12	0	21.30	22.01	22.00
		12	6	21.30	22.01	22.01
		12	11	21.28	22.00	22.02
		25	0	21.28	22.02	21.93
	16QAM	1	0	21.19	21.94	22.21
		1	13	21.42	22.06	22.01
		1	24	21.35	22.00	21.88
		12	0	20.22	20.91	20.95
		12	6	20.23	20.97	20.91
		12	11	20.22	20.92	20.97
		25	0	20.30	20.97	20.99

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20000CH	20175CH	20350CH
				1715MHz	1732.5MHz	1750MHz
4 / 10M	QPSK	1	0	22.78	23.03	23.18
		1	25	22.45	23.11	23.21
		1	49	22.56	22.92	23.03
		25	0	21.37	21.97	22.10
		25	13	21.36	21.98	22.11
		25	25	21.53	22.09	22.01
		50	0	21.33	21.98	22.14
	16QAM	1	0	21.48	21.90	22.30
		1	25	21.52	21.89	22.23
		1	49	21.54	21.89	22.09
		25	0	20.37	20.96	21.09
		25	13	20.33	20.93	21.10
		25	25	20.44	20.92	21.02
		50	0	20.33	20.98	21.09

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20025CH	20175CH	20325CH
				1717.5MHz	1732.5MHz	1747.5MHz
4 / 15M	QPSK	1	0	22.95	22.97	23.01
		1	38	22.35	23.01	23.01
		1	74	22.41	23.05	22.92
		36	0	21.26	21.86	21.99
		36	18	21.17	21.86	22.02
		36	39	21.44	21.81	21.90
		75	0	21.41	21.95	21.97
	16QAM	1	0	21.14	21.95	22.00
		1	38	21.36	21.82	21.89
		1	74	21.41	21.77	21.71
		36	0	20.22	20.86	21.02
		36	18	20.29	20.90	21.04
		36	39	20.46	20.82	20.92
		75	0	20.41	20.89	21.05

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20050CH	20175CH	20300CH
				1720MHz	1732.5MHz	1745MHz
4 / 20M	QPSK	1	0	22.84	23.12	23.22
		1	50	22.53	22.93	23.03
		1	99	22.42	22.81	22.74
		50	0	21.27	21.81	22.04
		50	25	21.30	21.80	21.95
		50	50	21.83	21.75	21.87
		100	0	21.61	21.81	21.88
	16QAM	1	0	21.01	21.58	21.74
		1	50	21.40	22.05	22.07
		1	99	21.60	21.88	21.84
		50	0	20.20	20.73	20.99
		50	25	20.24	20.74	20.91
		50	50	20.64	20.66	20.83
		100	0	20.61	20.67	20.89

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23017CH	23095CH	23173CH
				699.7MHz	707.5MHz	715.3MHz
12 / 1.4M	QPSK	1	0	22.70	22.68	22.62
		1	2	22.77	22.81	22.59
		1	5	22.67	22.72	22.60
		3	0	22.73	22.64	22.55
		3	1	22.71	22.67	22.48
		3	2	22.71	22.66	22.57
		6	0	21.69	21.61	21.45
	16QAM	1	0	21.63	21.63	21.67
		1	2	21.70	21.74	21.67
		1	5	21.75	21.53	21.57
		3	0	21.64	21.61	21.42
		3	1	21.72	21.69	21.62
		3	2	21.67	21.61	21.48
		6	0	20.77	20.62	20.59

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23025CH	23095CH	23165CH
				700.5MHz	707.5MHz	714.5MHz
12 / 3M	QPSK	1	0	22.71	22.74	22.50
		1	7	22.69	22.69	22.46
		1	14	22.79	22.82	22.44
		8	0	21.75	21.70	21.44
		8	4	21.76	21.71	21.44
		8	7	21.62	21.72	21.47
		15	0	21.65	21.51	21.46
	16QAM	1	0	21.61	21.60	21.67
		1	7	21.74	21.63	21.39
		1	14	21.62	21.53	21.38
		8	0	20.71	20.65	20.35
		8	4	20.66	20.72	20.38
		8	7	20.60	20.49	20.44
		15	0	20.65	20.53	20.44

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23035CH	23095CH	23155CH
				701.5MHz	707.5MHz	713.5MHz
12 / 5M	QPSK	1	0	22.59	22.58	22.73
		1	13	22.68	22.59	22.57
		1	24	22.59	22.53	22.49
		12	0	21.65	21.60	21.56
		12	6	21.67	21.65	21.60
		12	11	21.67	21.64	21.62
		25	0	21.64	21.59	21.49
	16QAM	1	0	21.72	21.35	21.67
		1	13	21.61	21.59	21.84
		1	24	21.62	21.51	21.58
		12	0	20.58	20.55	20.50
		12	6	20.57	20.57	20.59
		12	11	20.70	20.66	20.75
		25	0	20.55	20.61	20.47

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23060CH	23095CH	23130CH
				704MHz	707.5MHz	711MHz
12 / 10M	QPSK	1	0	22.59	22.60	22.65
		1	25	22.65	22.69	22.81
		1	49	22.67	22.70	22.50
		25	0	21.43	21.43	21.58
		25	13	21.45	21.47	21.59
		25	25	21.46	21.51	21.51
		50	0	21.58	21.49	21.49
	16QAM	1	0	21.65	21.53	21.40
		1	25	21.70	21.71	21.61
		1	49	21.58	21.55	21.31
		25	0	20.47	20.41	20.55
		25	13	20.44	20.42	20.57
		25	25	20.51	20.60	20.49
		50	0	20.55	20.49	20.54

EIRP (dBm):

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19957CH	20175CH	20393CH
				1710.7MHz	1732.5MHz	1754.3MHz
4 / 1.4M	QPSK	1	0	20.25	21.08	20.84
		1	2	20.30	21.22	20.92
		1	5	20.26	21.13	20.88
		3	0	20.28	21.09	20.79
		3	1	20.22	21.01	20.76
		3	2	20.20	20.95	20.75
		6	0	19.30	20.01	19.83
	16QAM	1	0	19.48	20.12	19.93
		1	2	19.51	19.96	20.01
		1	5	19.47	19.87	19.99
		3	0	19.22	20.16	19.77
		3	1	19.30	19.99	19.89
		3	2	19.29	20.03	19.93
		6	0	18.29	19.05	18.75

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19965CH	20175CH	20385CH
				1711.5MHz	1732.5MHz	1753.5MHz
4 / 3M	QPSK	1	0	20.32	21.04	20.86
		1	7	20.28	21.06	20.71
		1	14	20.31	21.13	20.78
		8	0	19.30	20.02	19.82
		8	4	19.32	20.02	19.85
		8	7	19.33	20.05	19.78
		15	0	19.29	20.05	19.87
	16QAM	1	0	19.47	20.00	19.88
		1	7	19.36	19.81	19.91
		1	14	19.54	19.70	20.01
		8	0	18.35	18.94	18.81
		8	4	18.30	19.00	18.78
		8	7	18.39	19.04	18.80
		15	0	18.30	18.99	18.80

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19975CH	20175CH	20375CH
				1712.5MHz	1732.5MHz	1752.5MHz
4 / 5M	QPSK	1	0	20.11	20.92	21.06
		1	13	20.27	21.04	20.94
		1	24	20.24	20.99	20.94
		12	0	19.30	20.01	20.00
		12	6	19.30	20.01	20.01
		12	11	19.28	20.00	20.02
		25	0	19.28	20.02	19.93
	16QAM	1	0	19.19	19.94	20.21
		1	13	19.42	20.06	20.01
		1	24	19.35	20.00	19.88
		12	0	18.22	18.91	18.95
		12	6	18.23	18.97	18.91
		12	11	18.22	18.92	18.97
		25	0	18.30	18.97	18.99

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20000CH	20175CH	20350CH
				1715MHz	1732.5MHz	1750MHz
4 / 10M	QPSK	1	0	20.78	21.03	21.18
		1	25	20.45	21.11	21.21
		1	49	20.56	20.92	21.03
		25	0	19.37	19.97	20.10
		25	13	19.36	19.98	20.11
		25	25	19.53	20.09	20.01
		50	0	19.33	19.98	20.14
	16QAM	1	0	19.48	19.90	20.30
		1	25	19.52	19.89	20.23
		1	49	19.54	19.89	20.09
		25	0	18.37	18.96	19.09
		25	13	18.33	18.93	19.10
		25	25	18.44	18.92	19.02
		50	0	18.33	18.98	19.09

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20025CH	20175CH	20325CH
				1717.5MHz	1732.5MHz	1747.5MHz
4 / 15M	QPSK	1	0	20.95	20.97	21.01
		1	38	20.35	21.01	21.01
		1	74	20.41	21.05	20.92
		36	0	19.26	19.86	19.99
		36	18	19.17	19.86	20.02
		36	39	19.44	19.81	19.90
		75	0	19.41	19.95	19.97
	16QAM	1	0	19.14	19.95	20.00
		1	38	19.36	19.82	19.89
		1	74	19.41	19.77	19.71
		36	0	18.22	18.86	19.02
		36	18	18.29	18.90	19.04
		36	39	18.46	18.82	18.92
		75	0	18.41	18.89	19.05

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20050CH	20175CH	20300CH
				1720MHz	1732.5MHz	1745MHz
4 / 20M	QPSK	1	0	20.84	21.12	21.22
		1	50	20.53	20.93	21.03
		1	99	20.42	20.81	20.74
		50	0	19.27	19.81	20.04
		50	25	19.30	19.80	19.95
		50	50	19.83	19.75	19.87
		100	0	19.61	19.81	19.88
	16QAM	1	0	19.01	19.58	19.74
		1	50	19.40	20.05	20.07
		1	99	19.60	19.88	19.84
		50	0	18.20	18.73	18.99
		50	25	18.24	18.74	18.91
		50	50	18.64	18.66	18.83
		100	0	18.61	18.67	18.89

ERP (dBm):

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23017CH	23095CH	23173CH
				699.7MHz	707.5MHz	715.3MHz
12 / 1.4M	QPSK	1	0	20.55	20.53	20.47
		1	2	20.62	20.66	20.44
		1	5	20.52	20.57	20.45
		3	0	20.58	20.49	20.40
		3	1	20.56	20.52	20.33
		3	2	20.56	20.51	20.42
		6	0	19.54	19.46	19.30
	16QAM	1	0	19.48	19.48	19.52
		1	2	19.55	19.59	19.52
		1	5	19.60	19.38	19.42
		3	0	19.49	19.46	19.27
		3	1	19.57	19.54	19.47
		3	2	19.52	19.46	19.33
		6	0	18.62	18.47	18.44

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23025CH	23095CH	23165CH
				700.5MHz	707.5MHz	714.5MHz
12 / 3M	QPSK	1	0	20.56	20.59	20.35
		1	7	20.54	20.54	20.31
		1	14	20.64	20.67	20.29
		8	0	19.60	19.55	19.29
		8	4	19.61	19.56	19.29
		8	7	19.47	19.57	19.32
		15	0	19.50	19.36	19.31
	16QAM	1	0	19.46	19.45	19.52
		1	7	19.59	19.48	19.24
		1	14	19.47	19.38	19.23
		8	0	18.56	18.50	18.20
		8	4	18.51	18.57	18.23
		8	7	18.45	18.34	18.29
		15	0	18.50	18.38	18.29

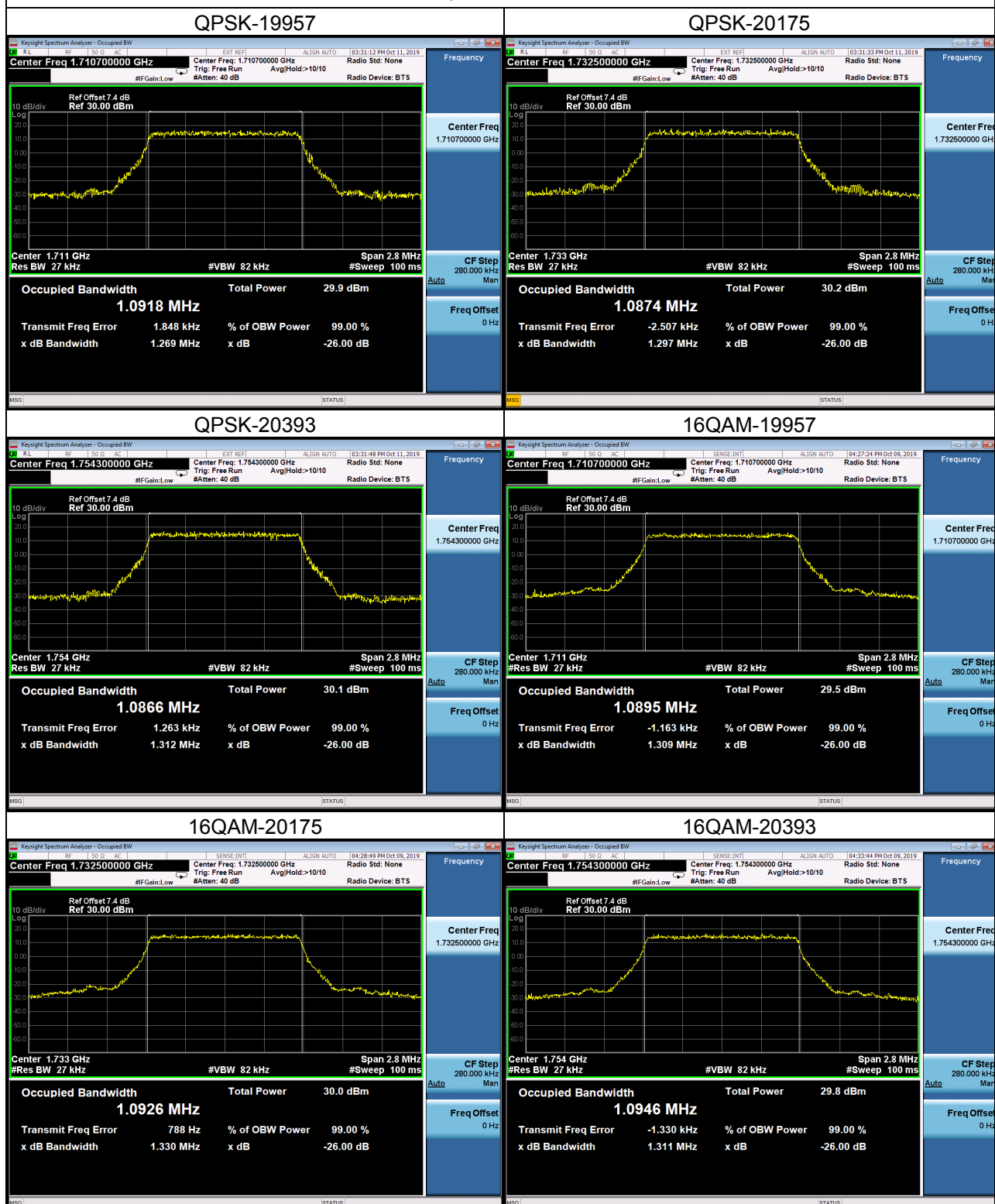
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23035CH	23095CH	23155CH
				701.5MHz	707.5MHz	713.5MHz
12 / 5M	QPSK	1	0	20.44	20.43	20.58
		1	13	20.53	20.44	20.42
		1	24	20.44	20.38	20.34
		12	0	19.50	19.45	19.41
		12	6	19.52	19.50	19.45
		12	11	19.52	19.49	19.47
		25	0	19.49	19.44	19.34
	16QAM	1	0	19.57	19.20	19.52
		1	13	19.46	19.44	19.69
		1	24	19.47	19.36	19.43
		12	0	18.43	18.40	18.35
		12	6	18.42	18.42	18.44
		12	11	18.55	18.51	18.60
		25	0	18.40	18.46	18.32

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23060CH	23095CH	23130CH
				704MHz	707.5MHz	711MHz
12 / 10M	QPSK	1	0	20.44	20.45	20.50
		1	25	20.50	20.54	20.66
		1	49	20.52	20.55	20.35
		25	0	19.28	19.28	19.43
		25	13	19.30	19.32	19.44
		25	25	19.31	19.36	19.36
		50	0	19.43	19.34	19.34
	16QAM	1	0	19.50	19.38	19.25
		1	25	19.55	19.56	19.46
		1	49	19.43	19.40	19.16
		25	0	18.32	18.26	18.40
		25	13	18.29	18.27	18.42
		25	25	18.36	18.45	18.34
		50	0	18.40	18.34	18.39

APPENDIX B - OCCUPIED BANDWIDTH

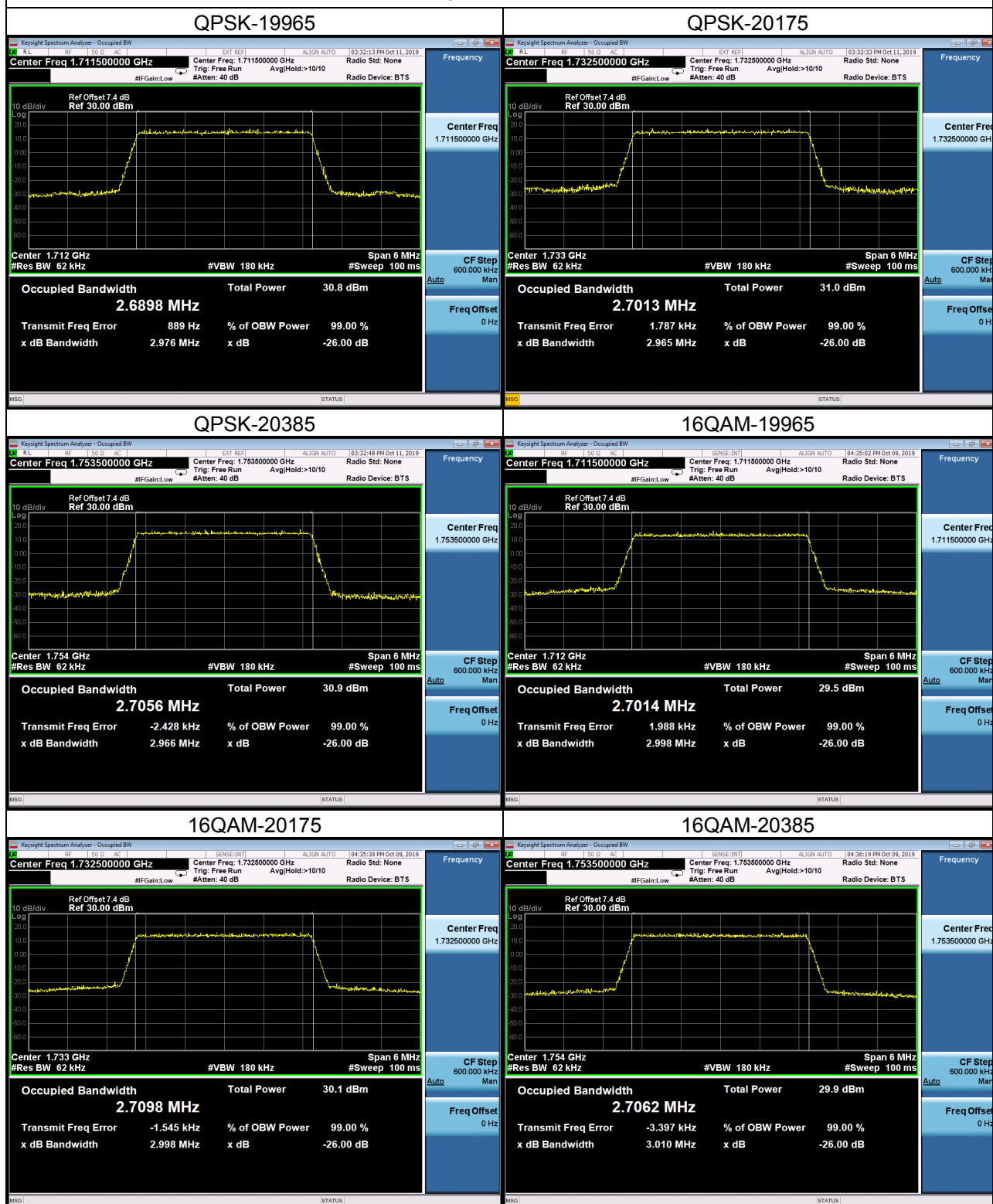
LTE Band 4_1.4M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19957	1710.7	1.0918	19957	1710.7	1.269
20175	1732.5	1.0874	20175	1732.5	1.297
20393	1754.3	1.0866	20393	1754.3	1.312
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19957	1710.7	1.0895	19957	1710.7	1.309
20175	1732.5	1.0926	20175	1732.5	1.330
20393	1754.3	1.0946	20393	1754.3	1.311

Spectrum Plot



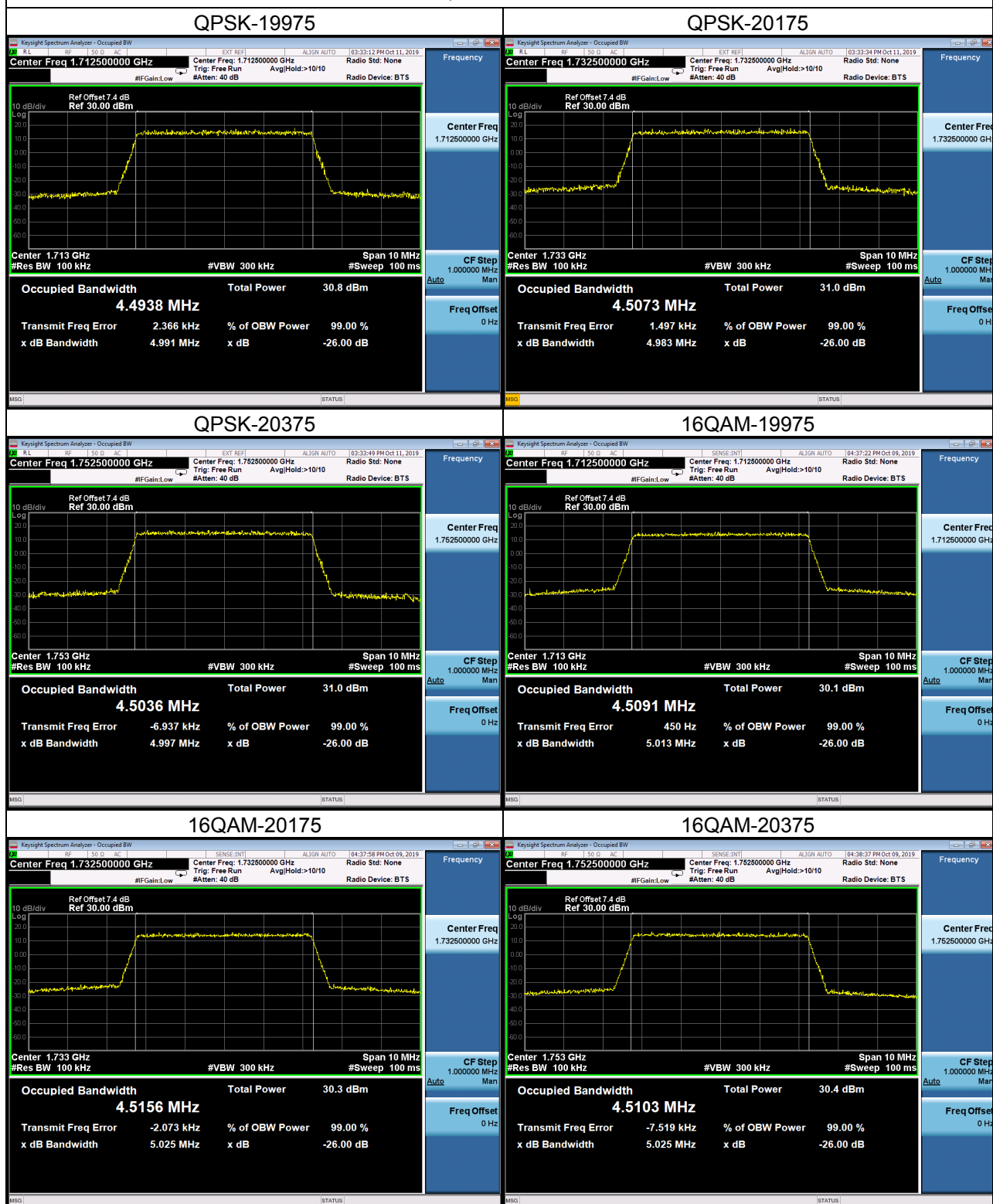
LTE Band 4_3M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19965	1711.5	2.6898	19965	1711.5	2.976
20175	1732.5	2.7013	20175	1732.5	2.965
20385	1753.5	2.7056	20385	1753.5	2.966
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19965	1711.5	2.7014	19965	1711.5	2.998
20175	1732.5	2.7098	20175	1732.5	2.998
20385	1753.5	2.7062	20385	1753.5	3.010

Spectrum Plot



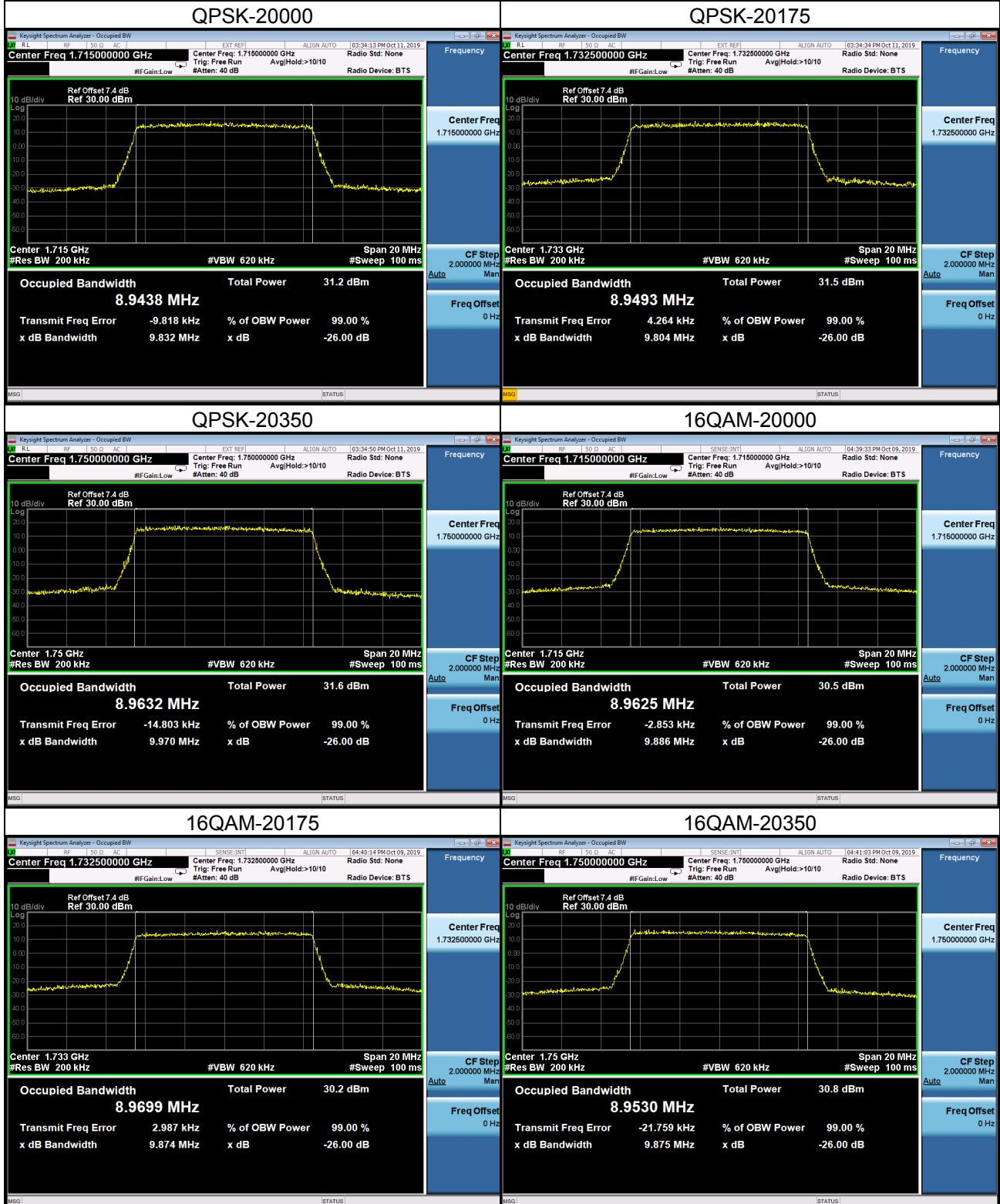
LTE Band 4_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19975	1712.5	4.4938	19975	1712.5	4.991
20175	1732.5	4.5073	20175	1732.5	4.983
20375	1752.5	4.5036	20375	1752.5	4.997
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19975	1712.5	4.5091	19975	1712.5	5.013
20175	1732.5	4.5156	20175	1732.5	5.025
20375	1752.5	4.5103	20375	1752.5	5.025

Spectrum Plot



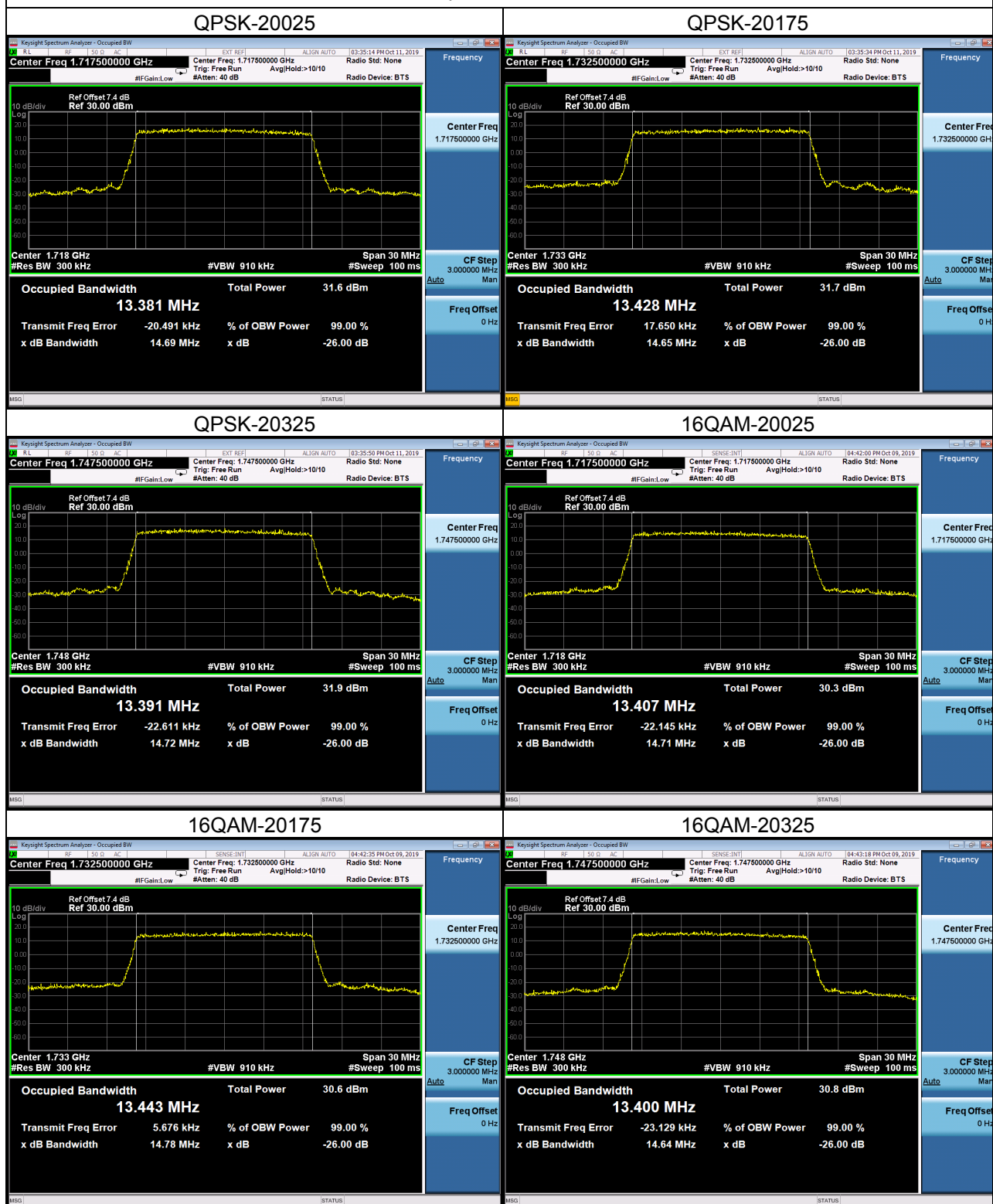
LTE Band 4_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20000	1715	8.9438	20000	1715	9.832
20175	1732.5	8.9493	20175	1732.5	9.804
20350	1750	8.9632	20350	1750	9.970
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20000	1715	8.9625	20000	1715	9.886
20175	1732.5	8.9699	20175	1732.5	9.874
20350	1750	8.9530	20350	1750	9.875

Spectrum Plot



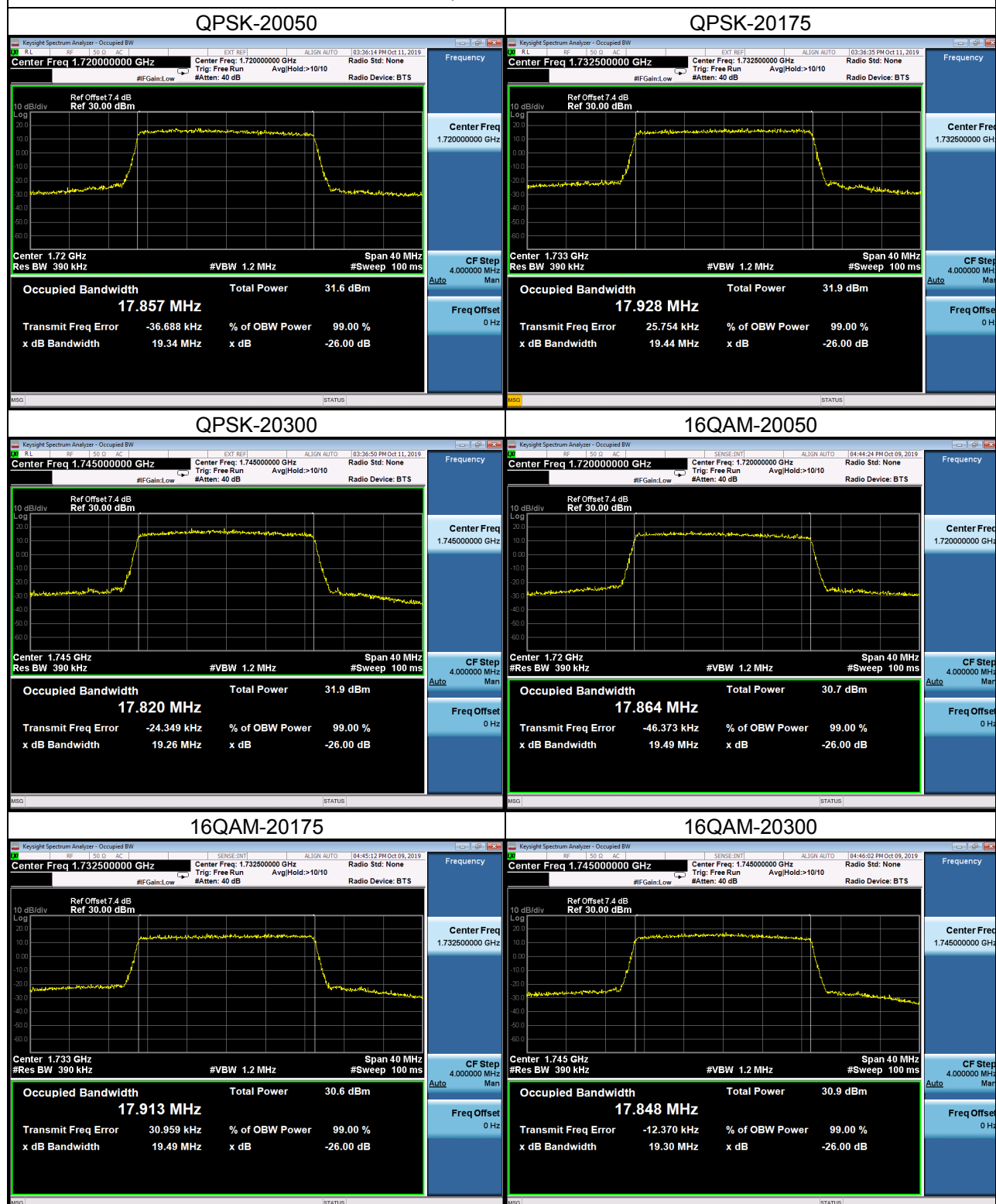
LTE Band 4_15M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20025	1717.5	13.381	20025	1717.5	14.69
20175	1732.5	13.428	20175	1732.5	14.65
20325	1747.5	13.391	20325	1747.5	14.72
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20025	1717.5	13.407	20025	1717.5	14.71
20175	1732.5	13.443	20175	1732.5	14.78
20325	1747.5	13.400	20325	1747.5	14.64

Spectrum Plot



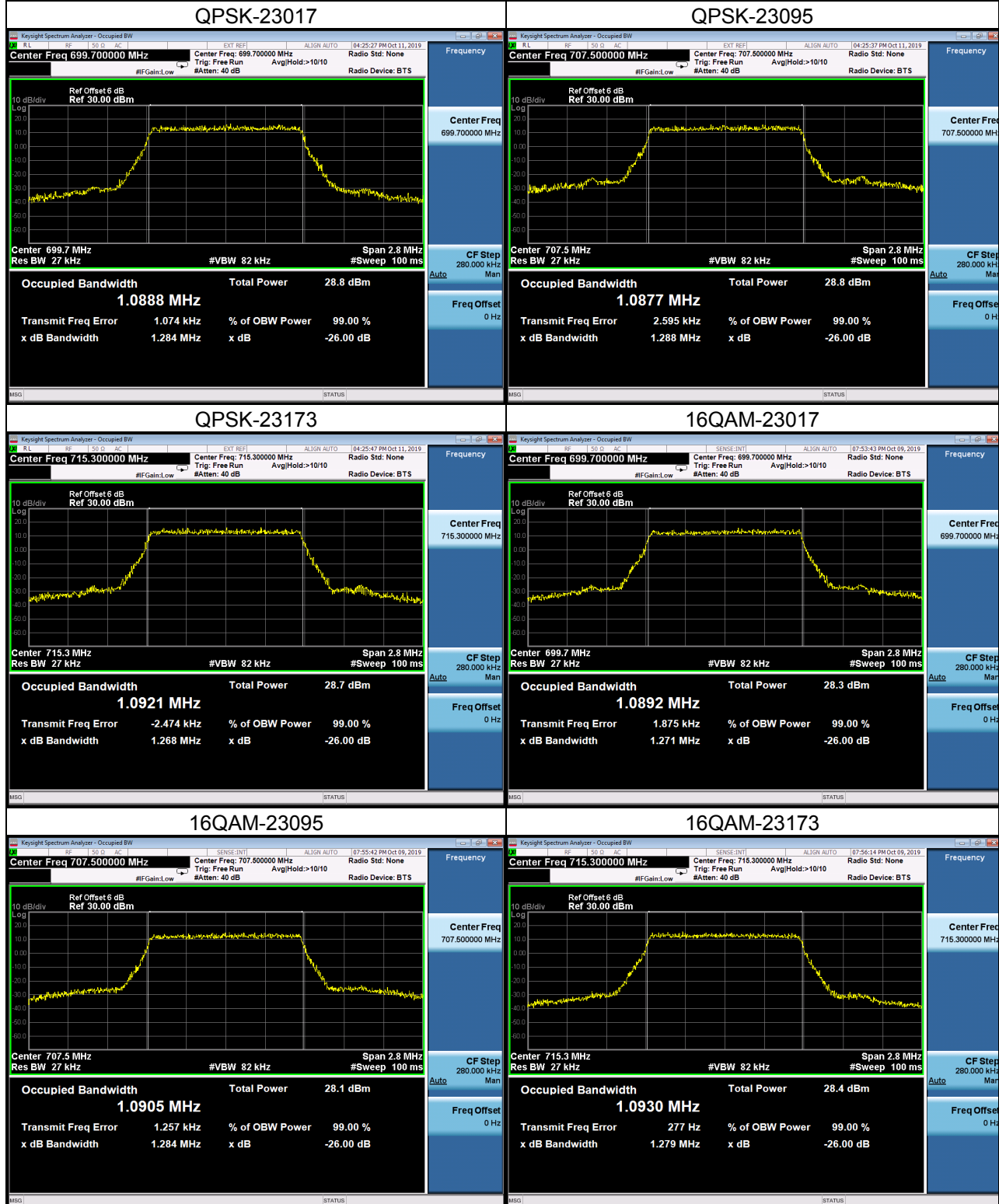
LTE Band 4_20M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20050	1720	17.857	20050	1720	19.34
20175	1732.5	17.928	20175	1732.5	19.44
20300	1745	17.820	20300	1745	19.26
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20050	1720	17.864	20050	1720	19.49
20175	1732.5	17.913	20175	1732.5	19.49
20300	1745	17.848	20300	1745	19.30

Spectrum Plot



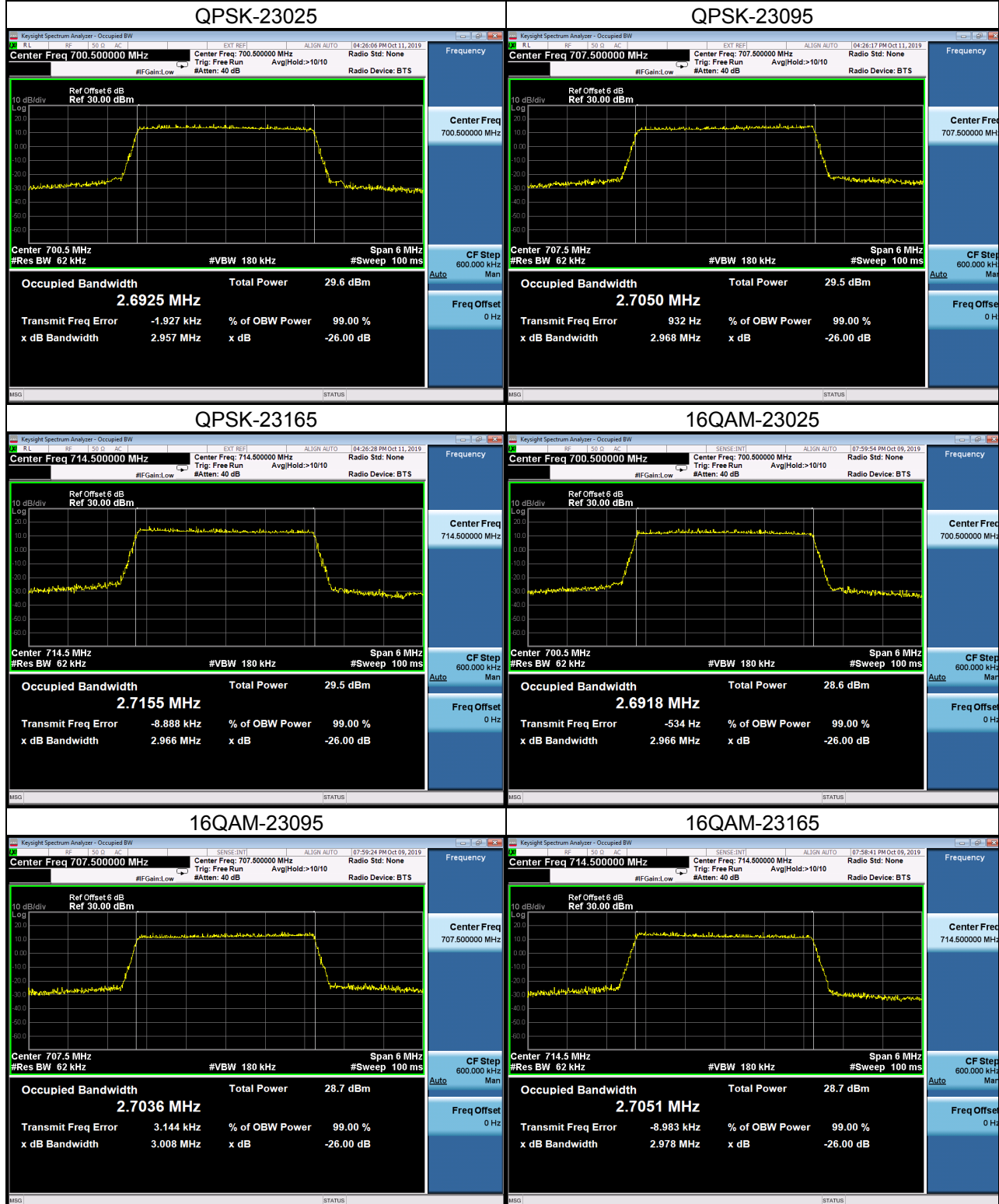
LTE Band 12_1.4M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23017	699.7	1.0888	23017	699.7	1.284
23095	707.5	1.0877	23095	707.5	1.288
23173	715.3	1.0921	23173	715.3	1.268
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23017	699.7	1.0892	23017	699.7	1.271
23095	707.5	1.0905	23095	707.5	1.284
23173	715.3	1.0930	23173	715.3	1.279

Spectrum Plot



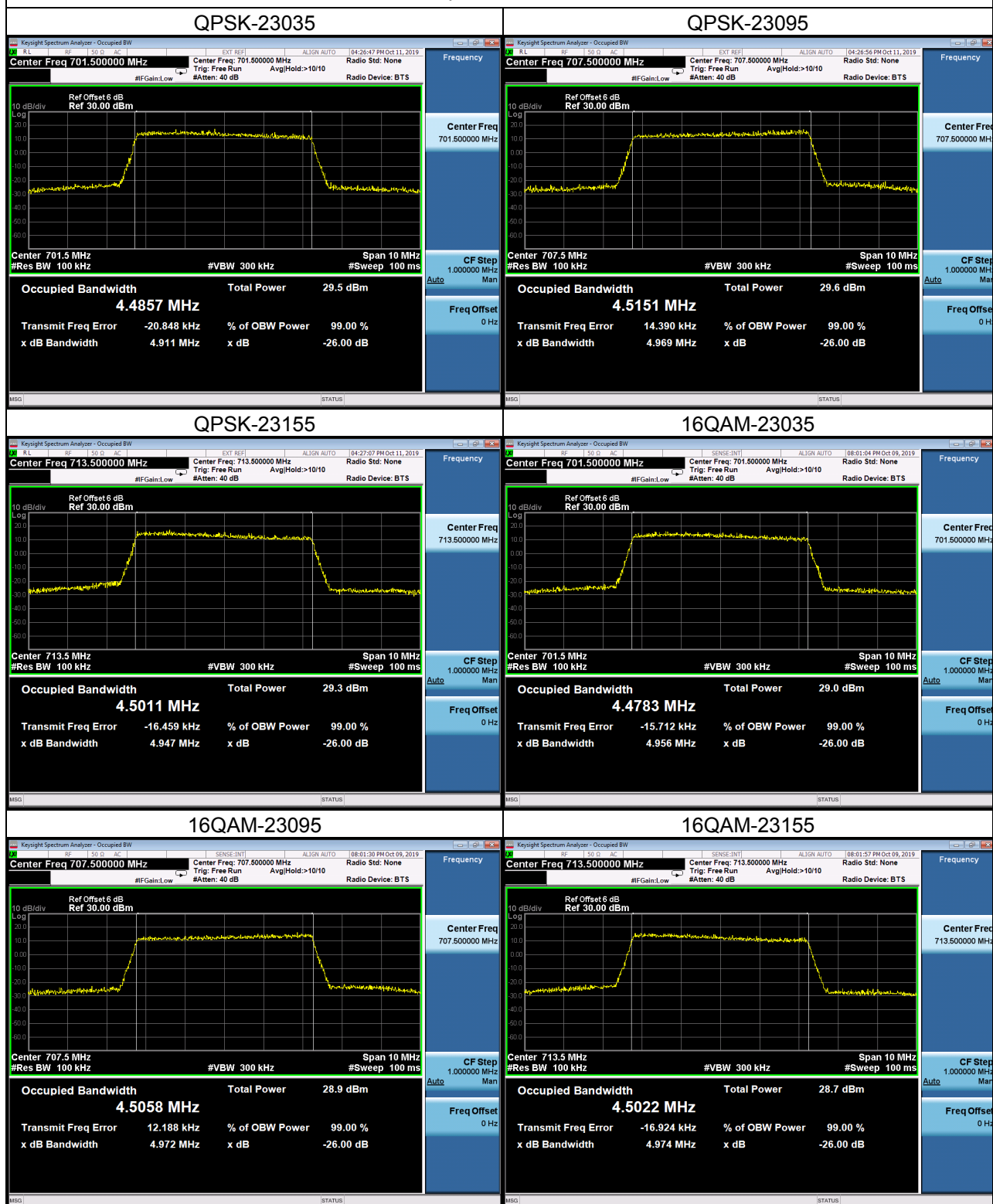
LTE Band 12_3M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23025	700.5	2.6925	23025	700.5	2.957
23095	707.5	2.7050	23095	707.5	2.968
23165	714.5	2.7155	23165	714.5	2.966
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23025	700.5	2.6918	23025	700.5	2.966
23095	707.5	2.7036	23095	707.5	3.008
23165	714.5	2.7051	23165	714.5	2.978

Spectrum Plot



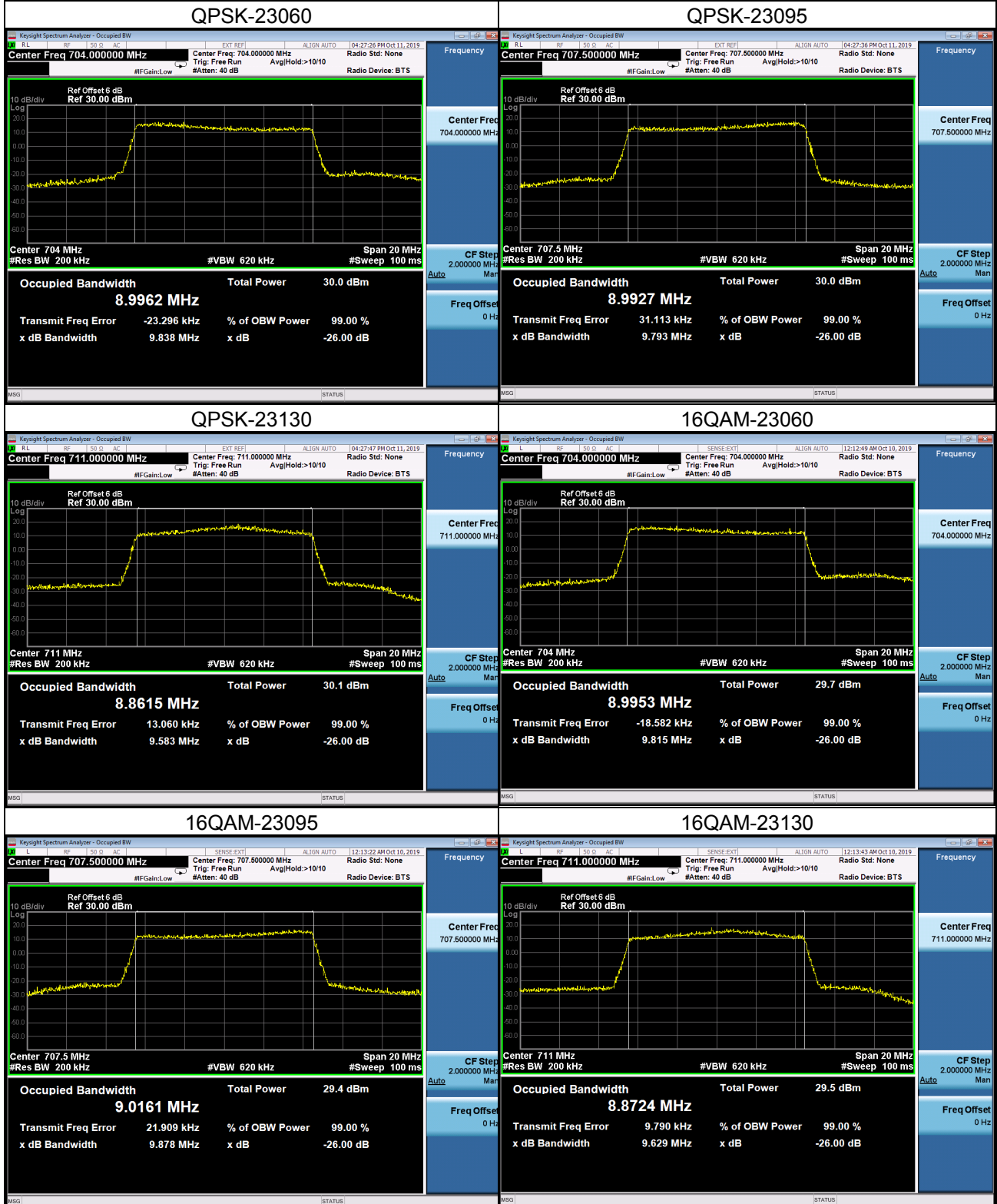
LTE Band 12_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23035	701.5	4.4857	23035	701.5	4.911
23095	707.5	4.5151	23095	707.5	4.969
23155	713.5	4.5011	23155	713.5	4.947
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23035	701.5	4.4783	23035	701.5	4.956
23095	707.5	4.5058	23095	707.5	4.972
23155	713.5	4.5022	23155	713.5	4.974

Spectrum Plot



LTE Band 12_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23060	704	8.9962	23060	704	9.838
23095	707.5	8.9927	23095	707.5	9.793
23130	711	8.9615	23130	711	9.583
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23060	704	8.9953	23060	704	9.815
23095	707.5	9.0161	23095	707.5	9.878
23130	711	8.8724	23130	711	9.629

Spectrum Plot



APPENDIX C - CONDUCTED SPURIOUS EMISSIONS

