

FCC Radio Test Report

FCC ID: 2AQ68DG501

Report No. : BTL-FCCP-3-2511E011
Equipment : 5G Redcap Dongle
Model Name : DG501VZ
Brand Name : General Mobile
Applicant : HON LIN Technology Co., Ltd.
Address : 11F, No.32, Jihu Rd., Neihu Dist., Taipei City 114699, Taiwan
Manufacturer : HON LIN Technology Co., Ltd.
Address : 11F, No.32, Jihu Rd., Neihu Dist., Taipei City 114699, Taiwan
Factory : FUYU PRECISION COMPONENT CO., LTD
Address : Lot M1, Lot F and Lot T1, Quang Chau Industrial Zone, Nenh Ward, Bac Ninh Province, Vietnam

Radio Function : LTE Band 4,13, 66 & 5G NR n66

FCC Rule Part(s) : FCC CFR Title 47, Part 27, Subpart L
FCC CFR Title 47, Part 27, Subpart H

Date of Receipt : 2025/12/9
Date of Test : 2026/1/5 ~ 2026/1/27
Issued Date : 2026/1/29

The above equipment has been tested and found in compliance with the requirement of the above 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).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the Customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

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 are not use in determining the Pass/Fail results.

CONTENTS

1	SUMMARY OF TEST RESULTS	6
1.1	REFERENCE TEST GUIDANCE	7
1.2	TEST FACILITY	7
1.3	MEASUREMENT UNCERTAINTY	7
1.4	TEST ENVIRONMENT CONDITIONS	7
2	GENERAL INFORMATION	8
2.1	DESCRIPTION OF EUT	8
2.2	TEST MODES	12
2.3	BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	16
2.4	SUPPORT UNITS	16
3	CONDUCTED OUTPUT POWER AND EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER MEASUREMENT	17
3.1	LIMIT	17
3.2	TEST PROCEDURE	18
3.3	DEVIATION FROM TEST STANDARD	18
3.4	TEST SETUP	18
3.5	EUT OPERATING CONDITIONS	18
3.6	TEST RESULT	18
4	OCCUPIED BANDWIDTH MEASUREMENT	19
4.1	TEST PROCEDURE	19
4.2	DEVIATION FROM TEST STANDARD	19
4.3	TEST SETUP	19
4.4	TEST RESULT	19
5	CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	20
5.1	LIMIT	20
5.2	TEST PROCEDURE	20
5.3	DEVIATION FROM TEST STANDARD	20
5.4	TEST SETUP	20
5.5	TEST RESULT	20
6	RADIATED SPURIOUS EMISSIONS MEASUREMENT	21
6.1	LIMIT	21
6.2	TEST PROCEDURE	21
6.3	DEVIATION FROM TEST STANDARD	21
6.4	TEST SETUP	22
6.5	EUT OPERATING CONDITIONS	22
6.6	TEST RESULT	22
7	BAND EDGE MEASUREMENT	23
7.1	LIMIT	23
7.2	TEST PROCEDURE	24
7.3	DEVIATION FROM TEST STANDARD	24
7.4	TEST SETUP	24
7.5	TEST RESULT	24
8	PEAK TO AVERAGE RATIO MEASUREMENT	25
8.1	LIMIT	25
8.2	TEST PROCEDURE	25
8.3	DEVIATION FROM TEST STANDARD	25
8.4	TEST SETUP	25
8.5	TEST RESULT	25

9	FREQUENCY STABILITY MEASUREMENT	26
9.1	LIMIT	26
9.2	TEST PROCEDURE	26
9.3	DEVIATION FROM TEST STANDARD	26
9.4	TEST SETUP	26
9.5	TEST RESULT	26
10	LIST OF MEASURING EQUIPMENTS	27
11	EUT TEST PHOTO	28
12	EUT PHOTOS	28
APPENDIX A	CONDUCTED OUTPUT POWER AND EFFECTIVE RADIATED POWER & EQUIVALENT ISOTROPIC RADIATED POWER	29
APPENDIX B	OCCUPIED BANDWIDTH	45
APPENDIX C	CONDUCTED SPURIOUS EMISSIONS	103
APPENDIX D	RADIATED SPURIOUS EMISSIONS	121
APPENDIX E	BAND EDGE	150
APPENDIX F	PEAK TO AVERAGE RATIO	177
APPENDIX G	FREQUENCY STABILITY	213

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2511E011	R00	Original Report.	2026/1/29	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
2.1046 27.50(b)(10) 27.50(c)(10) 27.50(d)(4) 27.50(h)(2) 27.50(a)(3)	Conducted Output Power Effective Radiated Power & Equivalent Isotropic Radiated Power	APPENDIX A	Pass	-----
2.1049	Occupied Bandwidth	APPENDIX B	Pass	-----
2.1051 27.53(c)(2) 27.53(g) 27.53(m)(4) 27.53(a)(4)	Conducted Spurious Emissions	APPENDIX C	Pass	-----
2.1053 27.53(c)(2) 27.53(f) 27.53(g) 27.53(m)(4) 27.53(a)(4)	Radiated Spurious Emissions	APPENDIX D	Pass	-----
2.1051 27.53(c)(2)(4) 27.53(f) 27.53(g) 27.53(m)(4) 27.53(a)(4)	Band Edge Measurements	APPENDIX E	Pass	-----
27.53(d)(5)	Peak To Average Ratio	APPENDIX F	Pass	-----
2.1055 27.54	Frequency Stability	APPENDIX G	Pass	-----

Statement of Conformity

The statement of conformity is based on the binary decision rule according to IEC Guide 115 and ILAC G8 "simple acceptance" principle. Without considering measurement uncertainty, its specific risk is less than 50% PFA. (PFA: Probability of False Accept)

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.

1.1 REFERENCE TEST GUIDANCE

ANSI C63.26-2015

ANSI/TIA-603-E-2016

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

1.2 TEST FACILITY

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☐ C05 ☐ CB08 ☐ CB11 ☒ SR10 ☐ SR11

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☐ C06 ☒ CB21 ☐ CB22

1.3 MEASUREMENT UNCERTAINTY

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. Effective Radiated Power & Equivalent Isotropic Radiated Power and Radiated emissions test :

Test Site	Measurement Frequency Range	U,(dB)
CB21	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
	1 GHz ~ 6 GHz	5.21
	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

NOTE:

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

1.4 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
Conducted Output Power	23 °C, 45 %	DC 5V	Cai Hu
Effective Radiated Power & Equivalent Isotropic Radiated Power	23 °C, 45 %	DC 5V	Cai Hu
Occupied Bandwidth	23 °C, 45 %	DC 5V	Cai Hu
Conducted Spurious Emissions	23 °C, 45 %	DC 5V	Cai Hu
Radiated Spurious Emissions	Refer to data	DC 5V	Mark Wang
Band Edge	23 °C, 45 %	DC 5V	Cai Hu
Peak to Average Ratio	23 °C, 45 %	DC 5V	Cai Hu
Frequency Stability	Normal and Extreme		Cai Hu

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	5G Redcap Dongle				
Model Name	DG501VZ				
Brand Name	General Mobile				
Model Difference	N/A				
Power Source	Supplied from Type-C port.				
Power Rating	5V  2.5W				
IMEI No.	358267601500170				
Operation Frequency	Band	UL Frequency (MHz)		DL Frequency (MHz)	
	LTE 4	1710 ~ 1755		2110 ~ 2155	
	LTE 13	777 ~ 787		746 ~ 756	
	LTE 66	1710 ~ 1780		2110 ~ 2200	
	5G NR n66	1710 ~ 1780		2110 ~ 2200	
Maximum EIRP	Band	BW (MHz)	Mode		Power (W)
	LTE 4	1.4	QPSK		0.167
			16QAM		0.136
			64QAM		0.101
			256QAM		0.056
		3	QPSK		0.169
			16QAM		0.137
			64QAM		0.103
			256QAM		0.056
		5	QPSK		0.171
			16QAM		0.139
			64QAM		0.105
			256QAM		0.057
		10	QPSK		0.173
			16QAM		0.140
			64QAM		0.106
			256QAM		0.058
		15	QPSK		0.175
			16QAM		0.142
			64QAM		0.107
			256QAM		0.058
		20	QPSK		0.177
			16QAM		0.144
			64QAM		0.109
			256QAM		0.059

Maximum EIRP	Band	BW (MHz)	Mode	Power (W)
	LTE 66	1.4	QPSK	0.186
			16QAM	0.151
			64QAM	0.143
			256QAM	0.061
		3	QPSK	0.187
			16QAM	0.151
			64QAM	0.145
			256QAM	0.062
		5	QPSK	0.189
			16QAM	0.153
			64QAM	0.148
			256QAM	0.062
		10	QPSK	0.191
			16QAM	0.155
			64QAM	0.150
			256QAM	0.063
		15	QPSK	0.193
			16QAM	0.157
			64QAM	0.153
			256QAM	0.064
		20	QPSK	0.195
			16QAM	0.158
			64QAM	0.154
			256QAM	0.064
	5G NR n66	5	DFT-s-OFDM QPSK	0.192
		10	DFT-s-OFDM QPSK	0.194
		15	DFT-s-OFDM QPSK	0.193
		20	DFT-s-OFDM PI/2 BPSK	0.191
			DFT-s-OFDM QPSK	0.191
			DFT-s-OFDM 16QAM	0.156
			DFT-s-OFDM 64QAM	0.105
DFT-s-OFDM 256QAM			0.062	
Maximum ERP	LTE 13	5	QPSK	0.072
			16QAM	0.059
			64QAM	0.044
			256QAM	0.024
		10	QPSK	0.073
			16QAM	0.059
			64QAM	0.044
			256QAM	0.024
Test Model	DG501VZ			
Sample Status	Engineering Sample			
EUT Modification(s)	N/A			

NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or 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	1740	2300	2145

LTE Band 13					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	5	23205	779.5	5205	748.5
Mid Range	5/10	23230	782.0	5230	751
High Range	5	23255	784.5	5255	753.5

LTE Band 66					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	131979	1710.7	66443	2110.7
	3	131987	1711.5	66451	2111.5
	5	131997	1712.5	66461	2112.5
	10	132022	1715	66486	2115
	15	132047	1717.5	66511	2117.5
	20	132072	1720	66536	2120
Mid Range	1.4/3/5/10/15/20	132322	1745	66786	2145
High Range	1.4	132665	1779.3	67129	2179.3
	3	132657	1778.5	67121	2178.5
	5	132647	1777.5	67111	2177.5
	10	132622	1775	67086	2175
	15	132597	1772.5	67061	2172.5
	20	132572	1770	67036	2170

5G NR n66						
Bandwidth	Low Channel	Mid Channel	High Channel	Low Frequency	Mid Frequency	High Frequency
5	342500	349000	355500	1712.5	1745	1777.5
10	343000	349000	355000	1715	1745	1775
15	343500	349000	354500	1717.5	1745	1772.5
20	344000	349000	354000	1720	1745	1770

(3) Table for Filed Antenna:

Brand Name	Model Name	Antenna Type	Connector	Gain (dBi)	Note
	B01W033	FPC	N/A	-0.19	LTE Band 4
				-2.31	LTE Band 13
				-0.09	LTE Band 66
				-0.09	5G NR n66

(4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2.2 TEST MODES

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, 64QAM, 256QAM	1RB/3RB/6RB
	19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/8RB/15RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/12RB/25RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/25RB/50RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/36RB/75RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/50RB/100RB
Occupied Bandwidth	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	6RB
	19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM, 256QAM	15RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM, 256QAM	25RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM, 256QAM	50RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM, 256QAM	75RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM, 256QAM	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	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, 64QAM, 256QAM	1RB
	19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB
Frequency Stability	20050 to 20300	20050, 20300	20MHz	QPSK	Full RB

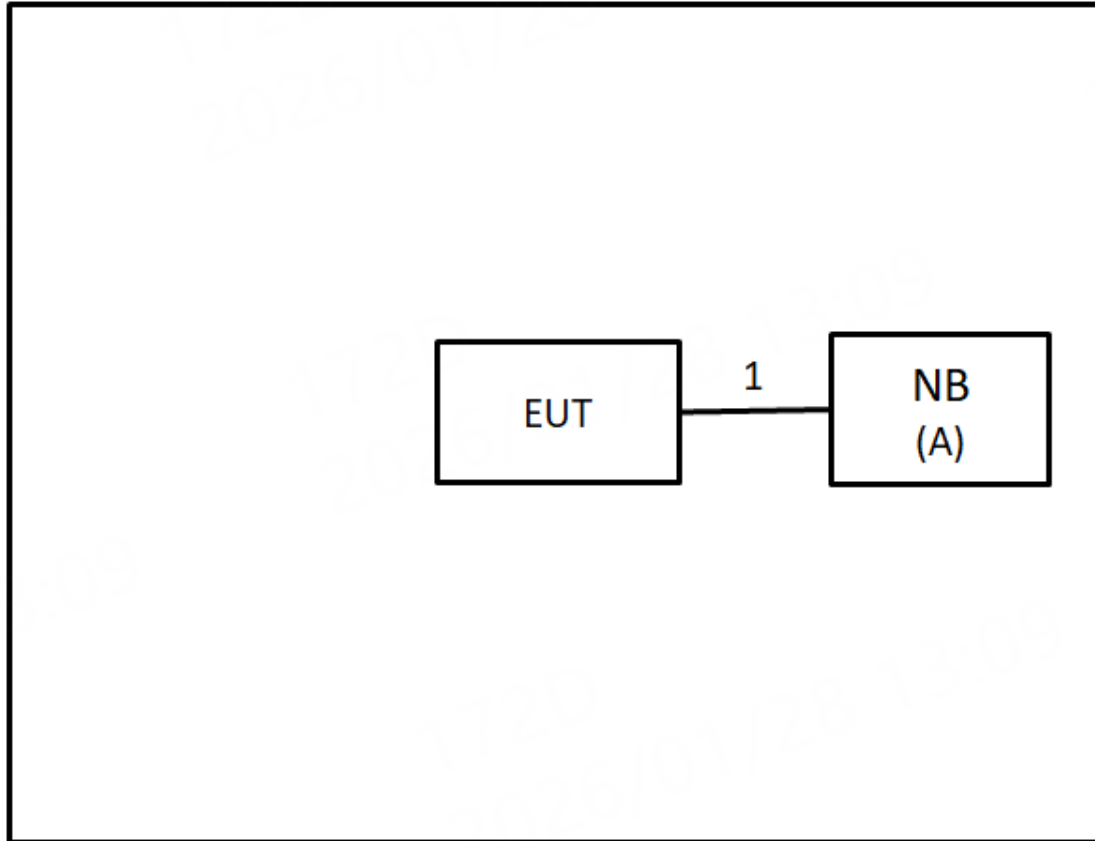
LTE BAND 13 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Output Power & Effective Radiated Power	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/12RB/25RB
	23230	23230	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/25RB/50RB
Occupied Bandwidth	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM, 256QAM	25RB
	23230	23230	10MHz	QPSK, 16QAM, 64QAM, 256QAM	50RB
Band Edge	23205 to 23255	23205, 23255	5MHz	QPSK	1RB/25RB
	23230	23230	10MHz	QPSK	1RB/50RB
Conducted Emission	23205 to 23255	23230	5MHz	QPSK	1RB
	23230	23230	10MHz	QPSK	1RB
Radiated Emission	23230	23230	10MHz	QPSK	1RB
Peak to Average Ratio	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB
	23230	23230	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB
Frequency Stability	23230	23230	10MHz	QPSK	Full RB

LTE BAND 66 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/3RB/6RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/8RB/15RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/12RB/25RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/25RB/50RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/36RB/75RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/50RB/100RB
Occupied Bandwidth	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	6RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM, 256QAM	15RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM, 256QAM	25RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM, 256QAM	50RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM, 256QAM	75 RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM, 256QAM	100RB
Conducted Spurious Emissions	131979 to 132665	132322	1.4MHz	QPSK	1RB
	131997 to 132647	132322	5MHz	QPSK	1RB
	132072 to 132572	132322	20MHz	QPSK	1RB
Radiated Spurious Emissions	132072 to 132572	132072, 132322, 132572	20MHz	QPSK	1RB
Band Edge	131979 to	131979, 132665	1.4MHz	QPSK	1RB/6RB
	131987 to	131987, 132657	3MHz	QPSK	1RB/15RB
	131997 to	131997, 132647	5MHz	QPSK	1RB/25RB
	132022 to	132022, 132622	10MHz	QPSK	1RB/50RB
	132047 to	132047, 132597	15MHz	QPSK	1RB/75RB
	132072 to	132072, 132572	20MHz	QPSK	1RB/100RB
Peak to Average Ratio	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/3RB/6RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/8RB/15RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/12RB/25RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/25RB/50RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/36RB/75RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/50RB/100RB
Frequency Stability	132072 to 132572	132072, 132572	20MHz	QPSK	Full RB

NR n66				
Test Item	Tested Channel	Channel Bandwidth	Modulation	RB allocation
Conducted Output Power and EIRP	342500, 349000, 355500	5MHz	DFT-s-OFDM PI/2 BPSK	Inner_Full Inner_1RB_Left Inner_1RB_Right Outer_Full Partial RB
	343000, 349000, 355000	10MHz		
	343500, 349000, 354500	15MHz		
	344000, 349000, 354000	20MHz	DFT-s-OFDM PI/2 BPSK, DFT-s-OFDM QPSK DFT-s-OFDM 16QAM DFT-s-OFDM 64QAM DFT-s-OFDM 256QAM	
Occupied Bandwidth	349000	5MHz	DFT-s-OFDM PI/2 BPSK, DFT-s-OFDM QPSK DFT-s-OFDM 16QAM DFT-s-OFDM 64QAM DFT-s-OFDM 256QAM CP-OFDM QPSK CP-OFDM 16QAM CP-OFDM 64QAM CP-OFDM 256QAM	Outer Full
		10MHz		
		15MHz		
		20MHz		
Conducted Spurious Emission	349000	5MHz	DFT-s-OFDM PI/2 BPSK, DFT-s-OFDM QPSK CP-OFDM QPSK	1RB # 0
		15MHz		
		20MHz		
Radiated Spurious Emission	344000, 349000, 354000	20MHz	DFT-s-OFDM QPSK	1RB # 0
Band Edge	342500, 355500	5MHz	DFT-s-OFDM PI/2 BPSK, DFT-s-OFDM QPSK CP-OFDM QPSK	Edge 1RB Left Edge 1RB Right Outer Full
	343000, 355000	10MHz		
	343500, 354500	15MHz		
	344000, 354000	20MHz		
Peak To Average Ratio	342500, 349000, 355500	5MHz	DFT-s-OFDM PI/2 BPSK, DFT-s-OFDM QPSK CP-OFDM QPSK	Edge 1RB Left Outer Full
	343000, 349000, 355000	10MHz		
	343500, 349000, 354500	15MHz		
	344000, 349000, 354000	20MHz		
Frequency Stability	349000	20MHz	DFT-s-OFDM QPSK	Outer Full

2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	NB	dyna	Satellite C40-H	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1m	VGA HD-15	Supplied by test requester.

3 CONDUCTED OUTPUT POWER AND EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER MEASUREMENT

3.1 LIMIT

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band and mobile and portable stations operating in the 1695–1710 MHz and 1755–1780 MHz bands are limited to 1 watt EIRP.

Mobile stations of BRS/EBS are operating in the 2496–2690 MHz band limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

Control stations and mobile stations transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands and fixed stations transmitting in the 787–788 MHz and 805–806 MHz bands are limited to 30 watts ERP.

Portable stations (hand-held devices) transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands are limited to 3 watts ERP.

Control and mobile stations in the 698–746 MHz band are limited to 30 watts ERP.

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698–746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

For mobile and portable stations transmitting in the 2305–2315 MHz band or the 2350–2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305–2315 MHz and 2350–2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305–2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

NOTE:

(1) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level (dBm)		Correct Factor (dB)		Measurement Value (dBm)
-29.66	+	34.26	=	4.60

Measurement Value (dBm)		Limit Value (dBm)		Margin Level (dB)
4.60	-	38.45	=	-33.85

3.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.

EIRP / ERP Power Measurement:

EIRP = Conducted Power + Antenna gain.

ERP power = EIPR power - 2.15 dBi.

Conducted Measurement:

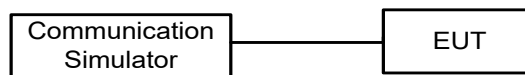
The EUT was set up for the maximum power with LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP

Conducted Measurement:



3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULT

Please refer to the APPENDIX A.

4 OCCUPIED BANDWIDTH MEASUREMENT

4.1 TEST PROCEDURE

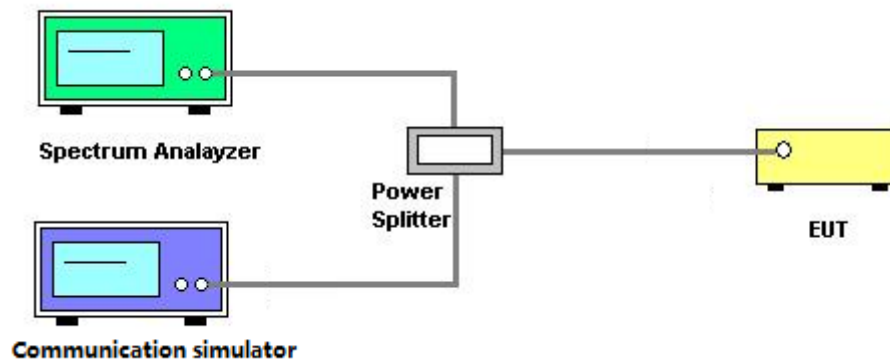
The testing follows FCC KDB 971168 v03r01 Section 4.

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

4.2 DEVIATION FROM TEST STANDARD

No deviation.

4.3 TEST SETUP



4.4 TEST RESULT

Please refer to the APPENDIX B.

5 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

5.1 LIMIT

For operations in the 600MHz band and 698 -746 MHz band, 776-788 MHz band, 1710-1755 MHz band: 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.

For operations in the 2496 -2690 MHz band:

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 $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm.

For operations in the 2305-2315 MHz and 2350-2360 MHz bands:

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 $70 + 10 \log(P)$ dB. The emission limit equal to -40dBm.

5.2 TEST PROCEDURE

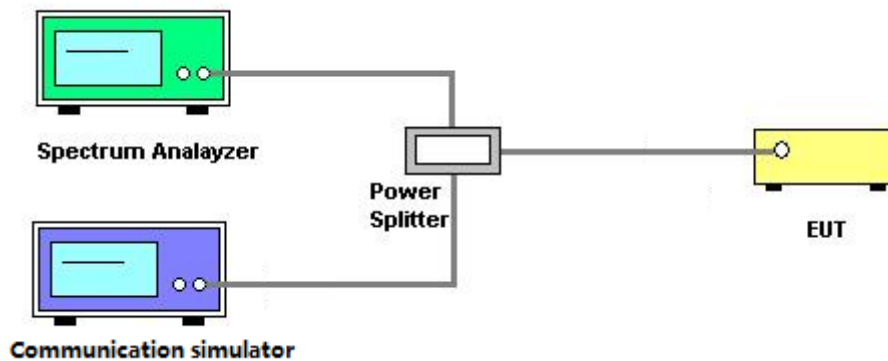
The testing follows FCC KDB 971168 v03r01 Section 6.

- The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 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.
- Set spectrum analyzer with Peak detector.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP



5.5 TEST RESULT

Please refer to the APPENDIX C.

6 RADIATED SPURIOUS EMISSIONS MEASUREMENT

6.1 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. (Part 27 Subpart L & H)

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 $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm. (Part 27 Subpart M)

NOTE:

(2) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level (dBm)		Correct Factor (dB)		Measurement Value (dBm)
-50.43	+	-2.11	=	-52.54

Measurement Value (dBm)		Limit Value (dBm)		Margin Level (dB)
-52.54	-	-13	=	-39.54

6.2 TEST PROCEDURE

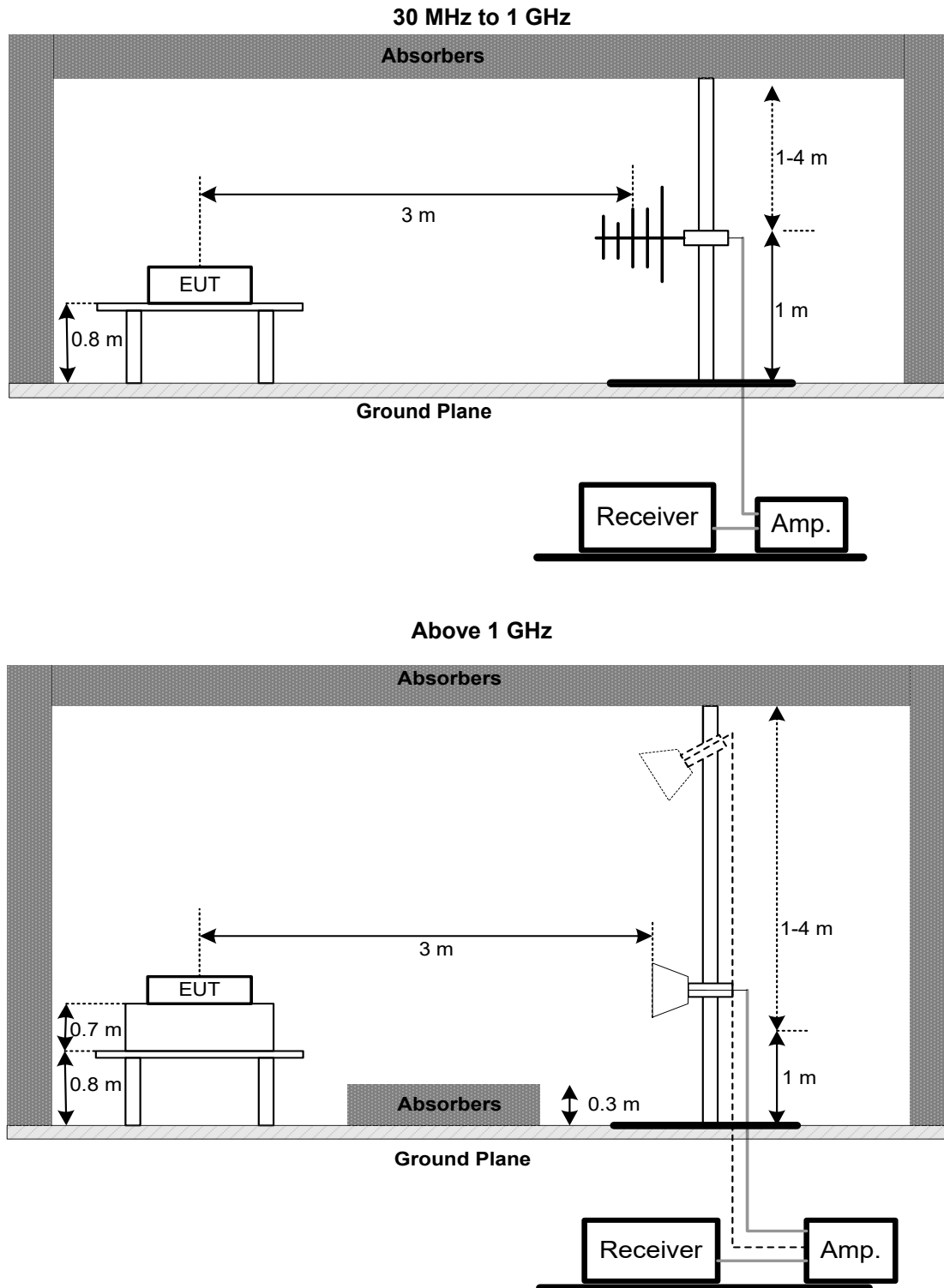
The testing follows FCC KDB 971168 v03r01 Section 6.2.

- 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.
- 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
- EIRP = Output power level of S.G - TX cable loss + Antenna gain of substitution horn.
- ERP power can be calculated form EIRP power by subtracting the gain of dipole,
ERP power = EIRP power - 2.15 dBi.
- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz / 3 MHz.

6.3 DEVIATION FROM TEST STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULT

Please refer to the APPENDIX D

7 BAND EDGE MEASUREMENT

7.1 LIMIT

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. 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 band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

- (i) By a factor of
 - not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation,
 - not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz,
 - not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz,
 - and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of
 - not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz,
 - $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz,
 - $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz,
 - $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;
- (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

- (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;

(iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

7.2 TEST PROCEDURE

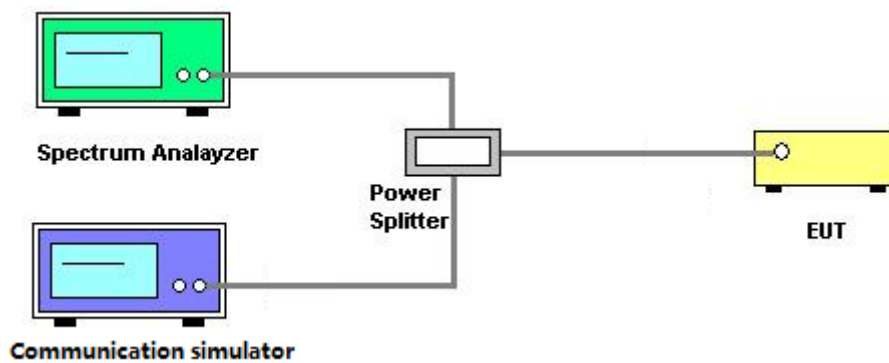
The testing follows FCC KDB 971168 v03r01 Section 6.

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

7.3 DEVIATION FROM TEST STANDARD

No deviation.

7.4 TEST SETUP



7.5 TEST RESULT

Please refer to the APPENDIX E.

8 PEAK TO AVERAGE RATIO MEASUREMENT

8.1 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.

8.2 TEST PROCEDURE

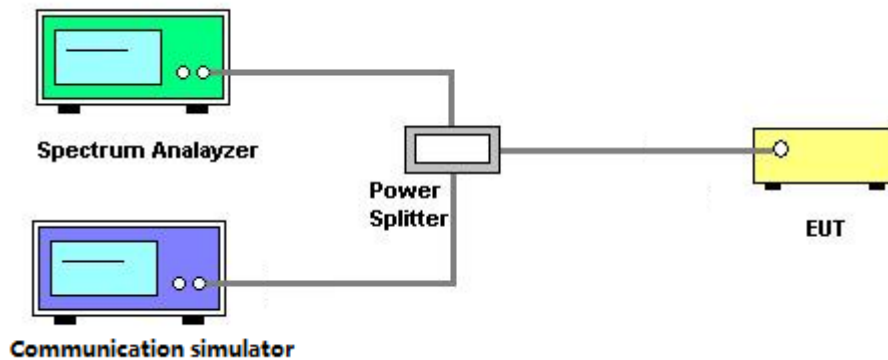
The testing follows FCC KDB 971168 v03r01 Section 5.7.

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

8.3 DEVIATION FROM TEST STANDARD

No deviation.

8.4 TEST SETUP



8.5 TEST RESULT

Please refer to the APPENDIX F.

9 FREQUENCY STABILITY MEASUREMENT

9.1 LIMIT

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

9.2 TEST PROCEDURE

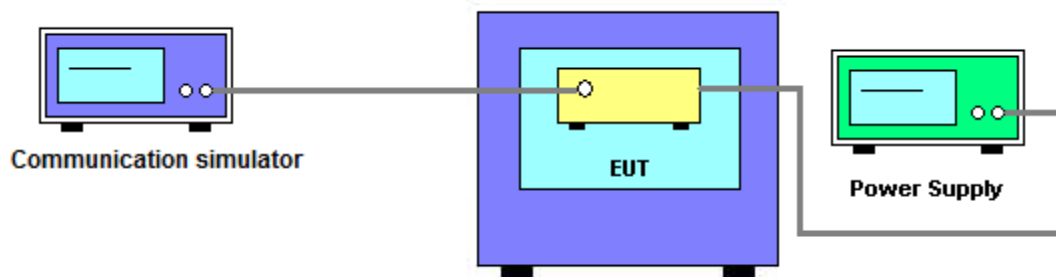
The testing follows FCC KDB 971168 v03r01 Section 9.

- 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.
- 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.
- 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.
- The frequency error was recorded frequency error from the communication simulator.

9.3 DEVIATION FROM TEST STANDARD

No deviation.

9.4 TEST SETUP



9.5 TEST RESULT

Please refer to the APPENDIX G.

10 LIST OF MEASURING EQUIPMENTS

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2025/9/3	2026/9/2
2	Preamplifier	EMCI	EMC118A45SE	980819	2025/3/5	2026/3/4
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2025/9/3	2026/9/2
4	Preamplifier	EMCI	EMC001340	980579	2025/9/3	2026/9/2
5	Test Cable	EMCI	EMC104-SM-1000	180809	2025/3/5	2026/3/4
6	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2025/3/5	2026/3/4
7	Test Cable	EMCI	EMC105-SM-SM-8000	220422	2025/10/15	2026/10/14
8	EXA Signal Analyzer	keysight	N9020B	MY57120120	2025/2/19	2026/2/18
9	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2025/9/1	2026/8/31
10	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2025/5/9	2026/5/8
11	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2025/5/15	2026/5/14
12	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2025/7/4	2026/7/3
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2025/7/4	2026/7/3
14	Test Cable	EMCI	EMC101G-KM-KM-3000	220329	2025/3/12	2026/3/11
15	Test Cable	EMCI	EMC102-KM-KM-1000	220327	2025/3/12	2026/3/11
16	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A
17	Radio Communication Analyzer	Keysight	E7515B	MY59020217	2025/7/8	2026/7/7
18	Preamplifier	EMCI	EMC330N	980850	2025/9/3	2026/9/2
19	Preamplifier	EMCI	EMC118A45SE	980819	2025/3/5	2026/3/4

Conducted Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	Keysight	N9010A	MY56480554	2025/9/22	2026/9/21
2	Over Tester	CF	CF-1BS-T	2024010205	2025/2/25	2026/2/24
3	Radio Communication Analyzer	ANRITSU	MT8820C	6201381608	2025/12/12	2026/12/11
4	Wideband Radio Communication Tester	R&S	CMW500	154121	2025/6/25	2026/6/24
5	Radio Communication Analyzer	Keysight	E7515B	MY59020217	2025/7/8	2026/7/7

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

11 EUT TEST PHOTO

Please refer to document Appendix No.: TP-2511E011-FCCP-1 (APPENDIX-TEST PHOTOS).

12 EUT PHOTOS

Please refer to document Appendix No.: EP-2511E011-1 (APPENDIX-EUT PHOTOS).

APPENDIX A CONDUCTED OUTPUT POWER AND EFFECTIVE RADIATED POWER & EQUIVALENT ISOTROPIC RADIATED POWER

Conducted Output Power and calculated ERP/EIRP:

LTE Band 4 Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
4	1.4	19957	1710.7	QPSK	1	0	0	22.19	22.00	0.158
					1	2	0	22.33	22.14	0.164
					1	5	0	22.14	21.95	0.157
					3	0	1	22.19	22.00	0.158
					3	1	1	22.33	22.14	0.164
					3	2	1	22.14	21.95	0.157
				16QAM	6	0	1	21.30	21.11	0.129
					1	0	1	21.28	21.09	0.129
					1	2	1	21.43	21.24	0.133
					1	5	1	21.25	21.06	0.128
					3	0	2	21.28	21.09	0.129
					3	1	2	21.43	21.24	0.133
					3	2	2	21.25	21.06	0.128
					6	0	2	20.36	20.17	0.104
				64QAM	1	0	2	20.04	19.85	0.097
					1	2	2	20.05	19.86	0.097
					1	5	2	19.99	19.80	0.095
					3	0	3	19.29	19.10	0.081
					3	1	3	19.34	19.15	0.082
					3	2	3	19.21	19.02	0.080
				256QAM	6	0	3	19.20	19.01	0.080
					1	0	5	17.39	17.20	0.052
					1	2	5	17.40	17.21	0.053
					1	5	5	17.19	17.00	0.050
					3	0	5	16.46	16.27	0.042
					3	1	5	16.61	16.42	0.044
					3	2	5	16.33	16.14	0.041
					6	0	5	16.53	16.34	0.043
				QPSK	1	0	0	22.42	22.23	0.167
					1	2	0	22.40	22.21	0.166
					1	5	0	22.24	22.05	0.160
					3	0	1	22.42	22.23	0.167
					3	1	1	22.40	22.21	0.166
					3	2	1	22.24	22.05	0.160
				16QAM	6	0	1	21.53	21.34	0.136
					1	0	1	21.51	21.32	0.136
					1	2	1	21.50	21.31	0.135
					1	5	1	21.35	21.16	0.131
					3	0	2	21.51	21.32	0.136
					3	1	2	21.50	21.31	0.135
				64QAM	3	2	2	21.35	21.16	0.131
					6	0	2	20.29	20.10	0.102
					1	0	2	20.11	19.92	0.098
					1	2	2	20.16	19.97	0.099
					1	5	2	20.06	19.87	0.097
					3	0	3	19.37	19.18	0.083
				256QAM	3	1	3	19.48	19.29	0.085
					3	2	3	19.35	19.16	0.082
					6	0	3	19.34	19.15	0.082
					1	0	5	17.66	17.47	0.056
					1	2	5	17.55	17.36	0.054
					1	5	5	17.28	17.09	0.051
				QPSK	3	0	5	16.61	16.42	0.044
					3	1	5	16.61	16.42	0.044
					3	2	5	16.41	16.22	0.042
					6	0	5	16.72	16.53	0.045
					1	0	0	22.31	22.12	0.163
					1	2	0	22.22	22.03	0.160
				16QAM	1	5	0	22.34	22.15	0.164
					3	0	1	22.31	22.12	0.163
					3	1	1	22.22	22.03	0.160
					3	2	1	22.34	22.15	0.164
					6	0	1	21.42	21.23	0.133
					1	0	1	21.40	21.21	0.132
				64QAM	1	2	1	21.32	21.13	0.130
					1	5	1	21.45	21.26	0.134
					3	0	2	21.40	21.21	0.132
					3	1	2	21.32	21.13	0.130
					3	2	2	21.45	21.26	0.134
					6	0	2	20.39	20.20	0.105
				256QAM	1	0	2	20.17	19.98	0.100
					1	2	2	20.24	20.05	0.101
					1	5	2	20.16	19.97	0.099
					3	0	3	19.48	19.29	0.085
					3	1	3	19.50	19.31	0.085
					3	2	3	19.45	19.26	0.084
				QPSK	6	0	3	19.46	19.27	0.085
					1	0	5	17.48	17.29	0.054
					1	2	5	17.36	17.17	0.052
					1	5	5	17.38	17.19	0.052
					3	0	5	16.63	16.44	0.044
					3	1	5	16.52	16.33	0.043
					3	2	5	16.54	16.35	0.043
					6	0	5	16.63	16.44	0.044

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
4	3	19965	1711.5	QPSK	1	0	0	22.24	22.05	0.160
					1	7	0	22.38	22.19	0.166
					1	14	0	22.19	22.00	0.158
					8	0	1	21.35	21.16	0.131
					8	4	1	21.54	21.35	0.136
					8	7	1	21.33	21.14	0.130
				16QAM	15	0	1	21.35	21.16	0.131
					1	0	1	21.33	21.14	0.130
					1	7	1	21.48	21.29	0.135
					1	14	1	21.30	21.11	0.129
					8	0	2	20.24	20.05	0.101
					8	4	2	20.49	20.30	0.107
					8	7	2	20.44	20.25	0.106
				64QAM	15	0	2	20.41	20.22	0.105
					1	0	2	20.11	19.92	0.098
					1	7	2	20.12	19.93	0.098
					1	14	2	20.03	19.84	0.096
					8	0	3	19.36	19.17	0.083
					8	4	3	19.42	19.23	0.084
					8	7	3	19.28	19.09	0.081
				256QAM	15	0	3	19.21	19.02	0.080
					1	0	5	17.44	17.25	0.053
					1	7	5	17.46	17.27	0.053
					1	14	5	17.24	17.05	0.051
					8	0	5	16.52	16.33	0.043
					8	4	5	16.65	16.46	0.044
					8	7	5	16.36	16.17	0.041
				256QAM	15	0	5	16.54	16.35	0.043
		20175	1732.5	QPSK	1	0	0	22.47	22.28	0.169
					1	7	0	22.45	22.26	0.168
					1	14	0	22.29	22.10	0.162
					8	0	1	21.58	21.39	0.138
					8	4	1	21.61	21.42	0.139
					8	7	1	21.43	21.24	0.133
				16QAM	15	0	1	21.58	21.39	0.138
					1	0	1	21.56	21.37	0.137
					1	7	1	21.55	21.36	0.137
					1	14	1	21.40	21.21	0.132
					8	0	2	20.34	20.15	0.104
					8	4	2	20.56	20.37	0.109
					8	7	2	20.51	20.32	0.108
				64QAM	15	0	2	20.48	20.29	0.107
					1	0	2	20.16	19.97	0.099
					1	7	2	20.23	20.04	0.101
					1	14	2	20.14	19.95	0.099
					8	0	3	19.43	19.24	0.084
					8	4	3	19.52	19.33	0.086
				256QAM	8	7	3	19.38	19.19	0.083
					15	0	3	19.36	19.17	0.083
					1	0	5	17.70	17.51	0.056
					1	7	5	17.60	17.41	0.055
					1	14	5	17.32	17.13	0.052
					8	0	5	16.68	16.49	0.045
				256QAM	8	4	5	16.69	16.50	0.045
					8	7	5	16.48	16.29	0.043
					15	0	5	16.75	16.56	0.045
		20385	1753.5	QPSK	1	0	0	22.36	22.17	0.165
					1	7	0	22.27	22.08	0.161
					1	14	0	22.39	22.20	0.166
					8	0	1	21.47	21.28	0.134
					8	4	1	21.43	21.24	0.133
					8	7	1	21.53	21.34	0.136
				16QAM	15	0	1	21.47	21.28	0.134
					1	0	1	21.45	21.26	0.134
					1	7	1	21.37	21.18	0.131
					1	14	1	21.50	21.31	0.135
					8	0	2	20.44	20.25	0.106
					8	4	2	20.38	20.19	0.104
					8	7	2	20.33	20.14	0.103
				64QAM	15	0	2	20.30	20.11	0.103
					1	0	2	20.25	20.06	0.101
					1	7	2	20.31	20.12	0.103
					1	14	2	20.23	20.04	0.101
					8	0	3	19.53	19.34	0.086
					8	4	3	19.57	19.38	0.087
				256QAM	8	7	3	19.51	19.32	0.086
					15	0	3	19.48	19.29	0.085
					1	0	5	17.54	17.35	0.054
					1	7	5	17.42	17.23	0.053
					1	14	5	17.46	17.27	0.053
					8	0	5	16.66	16.47	0.044
					8	4	5	16.54	16.35	0.043
					8	7	5	16.61	16.42	0.044
					15	0	5	16.68	16.49	0.045

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
4	5	19975	1712.5	QPSK	1	0	0	22.29	22.10	0.162
					1	12	0	22.43	22.24	0.167
					1	24	0	22.24	22.05	0.160
					12	0	1	21.40	21.21	0.132
					12	6	1	21.59	21.40	0.138
					12	11	1	21.38	21.19	0.132
					25	0	1	21.40	21.21	0.132
				16QAM	1	0	1	21.38	21.19	0.132
					1	12	1	21.53	21.34	0.136
					1	24	1	21.35	21.16	0.131
					12	0	2	20.29	20.10	0.102
					12	6	2	20.54	20.35	0.108
					12	11	2	20.49	20.30	0.107
					25	0	2	20.46	20.27	0.106
				64QAM	1	0	2	20.15	19.96	0.099
					1	12	2	20.18	19.99	0.100
					1	24	2	20.10	19.91	0.098
					12	0	3	19.38	19.19	0.083
					12	6	3	19.49	19.30	0.085
					12	11	3	19.34	19.15	0.082
				256QAM	25	0	3	19.28	19.09	0.081
					1	0	5	17.51	17.32	0.054
					1	12	5	17.52	17.33	0.054
					1	24	5	17.26	17.07	0.051
					12	0	5	16.53	16.34	0.043
					12	6	5	16.71	16.52	0.045
					12	11	5	16.44	16.25	0.042
					25	0	5	16.56	16.37	0.043
		20175	1732.5	QPSK	1	0	0	22.52	22.33	0.171
					1	12	0	22.50	22.31	0.170
					1	24	0	22.34	22.15	0.164
					12	0	1	21.63	21.44	0.139
					12	6	1	21.66	21.47	0.140
					12	11	1	21.48	21.29	0.135
				16QAM	25	0	1	21.63	21.44	0.139
					1	0	1	21.61	21.42	0.139
					1	12	1	21.60	21.41	0.138
					1	24	1	21.45	21.26	0.134
					12	0	2	20.39	20.20	0.105
					12	6	2	20.61	20.42	0.110
				64QAM	12	11	2	20.56	20.37	0.109
					25	0	2	20.53	20.34	0.108
					1	0	2	20.24	20.05	0.101
					1	12	2	20.30	20.11	0.103
					1	24	2	20.20	20.01	0.100
					12	0	3	19.45	19.26	0.084
				256QAM	12	6	3	19.59	19.40	0.087
					12	11	3	19.46	19.27	0.085
					25	0	3	19.38	19.19	0.083
					1	0	5	17.74	17.55	0.057
					1	12	5	17.67	17.48	0.056
					1	24	5	17.39	17.20	0.052
		20375	1752.5	QPSK	12	0	5	16.69	16.50	0.045
					12	6	5	16.75	16.56	0.045
					12	11	5	16.56	16.37	0.043
					25	0	5	16.76	16.57	0.045
					1	0	0	22.41	22.22	0.167
					1	12	0	22.32	22.13	0.163
				16QAM	1	24	0	22.44	22.25	0.168
					12	0	1	21.52	21.33	0.136
					12	6	1	21.48	21.29	0.135
					12	11	1	21.58	21.39	0.138
					25	0	1	21.52	21.33	0.136
					1	0	1	21.50	21.31	0.135
				64QAM	1	12	1	21.42	21.23	0.133
					1	24	1	21.55	21.36	0.137
					12	0	2	20.49	20.30	0.107
					12	6	2	20.43	20.24	0.106
					12	11	2	20.38	20.19	0.104
					25	0	2	20.35	20.16	0.104
				256QAM	1	0	2	20.33	20.14	0.103
					1	12	2	20.39	20.20	0.105
					1	24	2	20.30	20.11	0.103
					12	0	3	19.55	19.36	0.086
					12	6	3	19.64	19.45	0.088
					12	11	3	19.57	19.38	0.087
				256QAM	25	0	3	19.50	19.31	0.085
					1	0	5	17.61	17.42	0.055
					1	12	5	17.48	17.29	0.054
					1	24	5	17.51	17.32	0.054
					12	0	5	16.67	16.48	0.044
					12	6	5	16.60	16.41	0.044
					12	11	5	16.69	16.50	0.045
					25	0	5	16.69	16.50	0.045

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) P(W) = $1 \text{ W} \cdot 10^{(P(\text{dBm}) / 10)} / 1000$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)		
4	10	20000	1715.0	QPSK	1	0	0	22.34	22.15	0.164		
					1	24	0	22.48	22.29	0.169		
					1	49	0	22.29	22.10	0.162		
					25	0	1	21.45	21.26	0.134		
					25	12	1	21.64	21.45	0.140		
					25	24	1	21.43	21.24	0.133		
				16QAM	50	0	1	21.45	21.26	0.134		
					1	0	1	21.43	21.24	0.133		
					1	24	1	21.58	21.39	0.138		
					1	49	1	21.40	21.21	0.132		
					25	0	2	20.34	20.15	0.104		
					25	12	2	20.59	20.40	0.110		
				64QAM	25	24	2	20.54	20.35	0.108		
					50	0	2	20.51	20.32	0.108		
					1	0	2	20.20	20.01	0.100		
					1	24	2	20.23	20.04	0.101		
					1	49	2	20.18	19.99	0.100		
					25	0	3	19.45	19.26	0.084		
				256QAM	25	12	3	19.54	19.35	0.086		
					25	24	3	19.40	19.21	0.083		
					50	0	3	19.33	19.14	0.082		
					1	0	5	17.55	17.36	0.054		
					1	24	5	17.58	17.39	0.055		
					1	49	5	17.33	17.14	0.052		
				20175	1732.5	QPSK	25	0	5	16.58	16.39	0.044
							25	12	5	16.77	16.58	0.045
							25	24	5	16.51	16.32	0.043
							50	0	5	16.63	16.44	0.044
							1	0	0	22.57	22.38	0.173
							1	24	0	22.55	22.36	0.172
						16QAM	1	49	0	22.39	22.20	0.166
							25	0	1	21.68	21.49	0.141
							25	12	1	21.71	21.52	0.142
							25	24	1	21.53	21.34	0.136
							50	0	1	21.68	21.49	0.141
							1	0	1	21.66	21.47	0.140
						64QAM	1	24	1	21.65	21.46	0.140
							1	49	1	21.50	21.31	0.135
							25	0	2	20.44	20.25	0.106
							25	12	2	20.66	20.47	0.111
		25	24				2	20.61	20.42	0.110		
		50	0				2	20.58	20.39	0.109		
		256QAM	1			0	2	20.30	20.11	0.103		
			1			24	2	20.36	20.17	0.104		
			1			49	2	20.27	20.08	0.102		
			25			0	3	19.52	19.33	0.086		
			25			12	3	19.64	19.45	0.088		
			25			24	3	19.52	19.33	0.086		
		20350	1750.0			QPSK	50	0	3	19.45	19.26	0.084
							1	0	5	17.80	17.61	0.058
							1	24	5	17.71	17.52	0.056
							1	49	5	17.45	17.26	0.053
							25	0	5	16.74	16.55	0.045
							25	12	5	16.81	16.62	0.046
						16QAM	25	24	5	16.63	16.44	0.044
							50	0	5	16.80	16.61	0.046
							1	0	0	22.46	22.27	0.169
							1	24	0	22.37	22.18	0.165
							1	49	0	22.49	22.30	0.170
							25	0	1	21.57	21.38	0.137
						64QAM	25	12	1	21.53	21.34	0.136
							25	24	1	21.63	21.44	0.139
							50	0	1	21.57	21.38	0.137
							1	0	1	21.55	21.36	0.137
				1	24		1	21.47	21.28	0.134		
				1	49		1	21.60	21.41	0.138		
				256QAM	25	0	2	20.54	20.35	0.108		
					25	12	2	20.48	20.29	0.107		
					25	24	2	20.43	20.24	0.106		
					50	0	2	20.40	20.21	0.105		
					1	0	2	20.40	20.21	0.105		
					1	24	2	20.45	20.26	0.106		
				256QAM	1	49	2	20.37	20.18	0.104		
					25	0	3	19.61	19.42	0.087		
					25	12	3	19.71	19.52	0.090		
					25	24	3	19.64	19.45	0.088		
					50	0	3	19.56	19.37	0.086		
					1	0	5	17.65	17.46	0.056		
					1	24	5	17.53	17.34	0.054		
					1	49	5	17.56	17.37	0.055		
					25	0	5	16.71	16.52	0.045		
					25	12	5	16.66	16.47	0.044		
				25	24	5	16.74	16.55	0.045			
				50	0	5	16.73	16.54	0.045			

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) P(W) = $1 \text{ W} \cdot 10^{(P(\text{dBm}) / 10)} / 1000$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
4	15	20025	1717.5	QPSK	1	0	0	22.39	22.20	0.166
					1	38	0	22.53	22.34	0.171
					1	74	0	22.34	22.15	0.164
					36	0	1	21.50	21.31	0.135
					36	18	1	21.69	21.50	0.141
					36	35	1	21.48	21.29	0.135
					75	0	1	21.50	21.31	0.135
				16QAM	1	0	1	21.48	21.29	0.135
					1	38	1	21.63	21.44	0.139
					1	74	1	21.45	21.26	0.134
					36	0	2	20.39	20.20	0.105
					36	18	2	20.64	20.45	0.111
					36	35	2	20.59	20.40	0.110
					75	0	2	20.56	20.37	0.109
				64QAM	1	0	2	20.26	20.07	0.102
					1	38	2	20.29	20.10	0.102
					1	74	2	20.22	20.03	0.101
					36	0	3	19.49	19.30	0.085
					36	18	3	19.58	19.39	0.087
					36	35	3	19.44	19.25	0.084
					75	0	3	19.40	19.21	0.083
				256QAM	1	0	5	17.60	17.41	0.055
					1	38	5	17.65	17.46	0.056
					1	74	5	17.41	17.22	0.053
					36	0	5	16.62	16.43	0.044
					36	18	5	16.81	16.62	0.046
					36	35	5	16.55	16.36	0.043
					75	0	5	16.66	16.47	0.044
		20175	1732.5	QPSK	1	0	0	22.62	22.43	0.175
					1	38	0	22.60	22.41	0.174
					1	74	0	22.44	22.25	0.168
					36	0	1	21.73	21.54	0.143
					36	18	1	21.76	21.57	0.144
					36	35	1	21.58	21.39	0.138
					75	0	1	21.73	21.54	0.143
				16QAM	1	0	1	21.71	21.52	0.142
					1	38	1	21.70	21.51	0.142
					1	74	1	21.55	21.36	0.137
					36	0	2	20.49	20.30	0.107
					36	18	2	20.71	20.52	0.113
					36	35	2	20.66	20.47	0.111
					75	0	2	20.63	20.44	0.111
				64QAM	1	0	2	20.36	20.17	0.104
					1	38	2	20.41	20.22	0.105
					1	74	2	20.34	20.15	0.104
					36	0	3	19.56	19.37	0.086
					36	18	3	19.68	19.49	0.089
					36	35	3	19.56	19.37	0.086
					75	0	3	19.52	19.33	0.086
				256QAM	1	0	5	17.84	17.65	0.058
					1	38	5	17.75	17.56	0.057
					1	74	5	17.51	17.32	0.054
					36	0	5	16.82	16.63	0.046
					36	18	5	16.88	16.69	0.047
					36	35	5	16.67	16.48	0.044
		20325	1747.5	QPSK	75	0	5	16.88	16.69	0.047
					1	0	0	22.51	22.32	0.171
					1	38	0	22.42	22.23	0.167
					1	74	0	22.54	22.35	0.172
					36	0	1	21.62	21.43	0.139
					36	18	1	21.58	21.39	0.138
					36	35	1	21.68	21.49	0.141
					75	0	1	21.62	21.43	0.139
				16QAM	1	0	1	21.60	21.41	0.138
					1	38	1	21.52	21.33	0.136
					1	74	1	21.65	21.46	0.140
					36	0	2	20.59	20.40	0.110
					36	18	2	20.53	20.34	0.108
					36	35	2	20.48	20.29	0.107
					75	0	2	20.45	20.26	0.106
				64QAM	1	0	2	20.48	20.29	0.107
					1	38	2	20.50	20.31	0.107
					1	74	2	20.43	20.24	0.106
					36	0	3	19.69	19.50	0.089
					36	18	3	19.78	19.59	0.091
					36	35	3	19.68	19.49	0.089
					75	0	3	19.62	19.43	0.088
				256QAM	1	0	5	17.73	17.54	0.057
					1	38	5	17.57	17.38	0.055
					1	74	5	17.61	17.42	0.055
					36	0	5	16.75	16.56	0.045
					36	18	5	16.70	16.51	0.045
					36	35	5	16.78	16.59	0.046
					75	0	5	16.77	16.58	0.045

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) P(W) = $1 \text{ W} \cdot 10^{(P(\text{dBm}) / 10)} / 1000$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
4	20	20050	1720.0	QPSK	1	0	0	22.44	22.25	0.168
					1	49	0	22.58	22.39	0.173
					1	99	0	22.39	22.20	0.166
					50	0	1	21.55	21.36	0.137
					50	24	1	21.74	21.55	0.143
					50	49	1	21.53	21.34	0.136
					100	0	1	21.55	21.36	0.137
				16QAM	1	0	1	21.53	21.34	0.136
					1	49	1	21.68	21.49	0.141
					1	99	1	21.50	21.31	0.135
					50	0	2	20.44	20.25	0.106
					50	24	2	20.69	20.50	0.112
					50	49	2	20.64	20.45	0.111
					100	0	2	20.61	20.42	0.110
				64QAM	1	0	2	20.31	20.12	0.103
					1	49	2	20.36	20.17	0.104
					1	99	2	20.29	20.10	0.102
					50	0	3	19.54	19.35	0.086
					50	24	3	19.62	19.43	0.088
					50	49	3	19.52	19.33	0.086
					100	0	3	19.47	19.28	0.085
				256QAM	1	0	5	17.66	17.47	0.056
					1	49	5	17.73	17.54	0.057
					1	99	5	17.46	17.27	0.053
					50	0	5	16.67	16.48	0.044
					50	24	5	16.85	16.66	0.046
					50	49	5	16.63	16.44	0.044
					100	0	5	16.70	16.51	0.045
		20175	1732.5	QPSK	1	0	0	22.67	22.48	0.177
					1	49	0	22.65	22.46	0.176
					1	99	0	22.49	22.30	0.170
					50	0	1	21.78	21.59	0.144
					50	24	1	21.81	21.62	0.145
					50	49	1	21.63	21.44	0.139
					100	0	1	21.78	21.59	0.144
				16QAM	1	0	1	21.76	21.57	0.144
					1	49	1	21.75	21.56	0.143
					1	99	1	21.60	21.41	0.138
					50	0	2	20.54	20.35	0.108
					50	24	2	20.76	20.57	0.114
					50	49	2	20.71	20.52	0.113
					100	0	2	20.68	20.49	0.112
				64QAM	1	0	2	20.41	20.22	0.105
					1	49	2	20.46	20.27	0.106
					1	99	2	20.39	20.20	0.105
					50	0	3	19.64	19.45	0.088
					50	24	3	19.72	19.53	0.090
					50	49	3	19.62	19.43	0.088
					100	0	3	19.57	19.38	0.087
				256QAM	1	0	5	17.89	17.70	0.059
					1	49	5	17.80	17.61	0.058
					1	99	5	17.56	17.37	0.055
					50	0	5	16.90	16.71	0.047
					50	24	5	16.92	16.73	0.047
					50	49	5	16.73	16.54	0.045
					100	0	5	16.93	16.74	0.047
		20300	1745.0	QPSK	1	0	0	22.56	22.37	0.173
					1	49	0	22.47	22.28	0.169
					1	99	0	22.59	22.40	0.174
					50	0	1	21.67	21.48	0.141
					50	24	1	21.63	21.44	0.139
					50	49	1	21.73	21.54	0.143
					100	0	1	21.67	21.48	0.141
				16QAM	1	0	1	21.65	21.46	0.140
					1	49	1	21.57	21.38	0.137
					1	99	1	21.70	21.51	0.142
					50	0	2	20.64	20.45	0.111
					50	24	2	20.58	20.39	0.109
					50	49	2	20.53	20.34	0.108
					100	0	2	20.50	20.31	0.107
				64QAM	1	0	2	20.51	20.32	0.108
					1	49	2	20.56	20.37	0.109
					1	99	2	20.49	20.30	0.107
					50	0	3	19.74	19.55	0.090
					50	24	3	19.82	19.63	0.092
					50	49	3	19.72	19.53	0.090
					100	0	3	19.67	19.48	0.089
				256QAM	1	0	5	17.78	17.59	0.057
					1	49	5	17.62	17.43	0.055
					1	99	5	17.66	17.47	0.056
					50	0	5	16.79	16.60	0.046
					50	24	5	16.74	16.55	0.045
					50	49	5	16.83	16.64	0.046
					100	0	5	16.82	16.63	0.046

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) P(W) = $1 \text{ W} \cdot 10^{(P(\text{dBm}) / 10)} / 1000$

LTE Band 13 Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
13	5	23205	779.5	QPSK	1	0	0	22.98	18.52	0.071
					1	12	0	23.02	18.56	0.072
					1	24	0	22.87	18.41	0.069
					12	0	1	22.09	17.63	0.058
					12	6	1	22.18	17.72	0.059
					12	11	1	22.02	17.56	0.057
				16QAM	25	0	1	22.12	17.66	0.058
					1	0	1	22.08	17.62	0.058
					1	12	1	22.12	17.66	0.058
					1	24	1	21.98	17.52	0.056
					12	0	2	20.91	16.45	0.044
					12	6	2	21.12	16.66	0.046
					12	11	2	21.08	16.62	0.046
				64QAM	25	0	2	21.05	16.59	0.046
					1	0	2	20.78	16.32	0.043
					1	49	2	20.83	16.37	0.043
					1	99	2	20.76	16.30	0.043
					50	0	3	20.01	15.55	0.036
					50	24	3	20.09	15.63	0.037
				256QAM	50	49	3	19.99	15.53	0.036
					100	0	3	19.94	15.48	0.035
					1	0	5	18.20	13.74	0.024
					1	49	5	18.17	13.71	0.023
					1	99	5	17.94	13.48	0.022
					50	0	5	17.21	12.75	0.019
		23230	782.0	QPSK	50	24	5	17.29	12.83	0.019
					50	49	5	17.12	12.66	0.018
					100	0	5	17.27	12.81	0.019
				16QAM	1	0	0	23.01	18.55	0.072
					1	12	0	23.05	18.59	0.072
					1	24	0	22.91	18.45	0.070
					12	0	1	22.13	17.67	0.058
					12	6	1	22.21	17.75	0.059
				64QAM	12	11	1	22.05	17.59	0.057
					25	0	1	22.13	17.67	0.058
					1	0	1	22.11	17.65	0.058
					1	12	1	22.15	17.69	0.059
					1	24	1	22.02	17.56	0.057
				256QAM	12	0	2	20.96	16.50	0.045
					12	6	2	21.16	16.70	0.047
					12	11	2	21.11	16.65	0.046
					25	0	2	21.08	16.62	0.046
				16QAM	1	0	2	20.81	16.35	0.043
					1	49	2	20.86	16.40	0.044
					1	99	2	20.79	16.33	0.043
					50	0	3	20.01	15.55	0.036
					50	24	3	20.13	15.67	0.037
				64QAM	50	49	3	20.01	15.55	0.036
					100	0	3	19.97	15.51	0.036
					1	0	5	18.22	13.76	0.024
					1	49	5	18.18	13.72	0.024
					1	99	5	17.96	13.50	0.022
				256QAM	50	0	5	17.20	12.74	0.019
					50	24	5	17.31	12.85	0.019
					50	49	5	17.12	12.66	0.018
					100	0	5	17.26	12.80	0.019
		23255	784.5	QPSK	1	0	0	23.00	18.54	0.071
					1	12	0	23.03	18.57	0.072
					1	24	0	22.89	18.43	0.070
					12	0	1	22.11	17.65	0.058
					12	6	1	22.19	17.73	0.059
					12	11	1	22.03	17.57	0.057
				16QAM	25	0	1	22.11	17.65	0.058
					1	0	1	22.09	17.63	0.058
					1	12	1	22.13	17.67	0.059
					1	24	1	22.00	17.54	0.057
					12	0	2	20.94	16.48	0.044
					12	6	2	21.14	16.68	0.047
				64QAM	12	11	2	21.09	16.63	0.046
					25	0	2	21.06	16.60	0.046
					1	0	2	20.81	16.35	0.043
					1	12	2	20.86	16.40	0.044
					1	24	2	20.79	16.33	0.043
				256QAM	12	0	3	20.04	15.58	0.036
					12	6	3	20.12	15.66	0.037
					12	11	3	20.02	15.56	0.036
					25	0	3	19.97	15.51	0.036
					1	0	5	18.22	13.76	0.024
					1	12	5	18.18	13.72	0.024
					1	24	5	17.96	13.50	0.022
					12	0	5	17.23	12.77	0.019
					12	6	5	17.30	12.84	0.019
					12	11	5	17.13	12.67	0.019
					25	0	5	17.26	12.80	0.019

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) P(W) = $1 \text{ W} \cdot 10^{(P(\text{dBm}) / 10)} / 1000$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
13	10	23203	782.0	QPSK	1	0	0	23.05	18.59	0.072
					1	24	0	23.08	18.62	0.073
					1	49	0	22.94	18.48	0.070
					25	0	1	22.16	17.70	0.059
					25	12	1	22.24	17.78	0.060
					25	24	1	22.08	17.62	0.058
				16QAM	50	0	1	22.16	17.70	0.059
					1	0	1	22.14	17.68	0.059
					1	24	1	22.18	17.72	0.059
					1	49	1	22.05	17.59	0.057
					25	0	2	20.99	16.53	0.045
					25	12	2	21.19	16.73	0.047
					25	24	2	21.14	16.68	0.047
				64QAM	50	0	2	21.11	16.65	0.046
					1	0	2	20.86	16.40	0.044
					1	49	2	20.91	16.45	0.044
					1	99	2	20.84	16.38	0.043
					50	0	3	20.09	15.63	0.037
					50	24	3	20.17	15.71	0.037
					50	49	3	20.07	15.61	0.036
				256QAM	100	0	3	20.02	15.56	0.036
					1	0	5	18.27	13.81	0.024
					1	24	5	18.23	13.77	0.024
					1	49	5	18.01	13.55	0.023
					25	0	5	17.28	12.82	0.019
					25	12	5	17.35	12.89	0.019
					25	24	5	17.18	12.72	0.019
					50	0	5	17.31	12.85	0.019

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) $P(W) = 1 \text{ W} \cdot 10^{(P(\text{dBm}) / 10)} / 1000$

LTE Band 66 Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)		
66	1.4	131979	1710.7	QPSK	1	0	0	22.64	22.55	0.180		
					1	2	0	22.74	22.65	0.184		
					1	5	0	22.61	22.52	0.179		
					3	0	1	22.64	22.55	0.180		
					3	1	1	22.74	22.65	0.184		
					3	2	1	22.61	22.52	0.179		
				16QAM	6	0	1	21.75	21.66	0.147		
					1	0	1	21.73	21.64	0.146		
					1	2	1	21.84	21.75	0.150		
					3	5	1	21.72	21.63	0.146		
					3	0	2	21.73	21.64	0.146		
					3	1	2	21.84	21.75	0.150		
				64QAM	3	2	2	21.72	21.63	0.146		
					6	0	2	20.77	20.68	0.117		
					1	0	2	20.51	20.42	0.110		
					1	2	2	20.52	20.43	0.110		
					1	5	2	20.46	20.37	0.109		
					3	0	3	19.76	19.67	0.093		
				256QAM	3	1	3	19.81	19.72	0.094		
					3	2	3	19.68	19.59	0.091		
					6	0	3	19.67	19.58	0.091		
					1	0	5	17.84	17.75	0.060		
					1	2	5	17.81	17.72	0.059		
					1	5	5	17.66	17.57	0.057		
					3	0	5	16.91	16.82	0.048		
					3	1	5	17.02	16.93	0.049		
					3	2	5	16.80	16.71	0.047		
					6	0	5	16.98	16.89	0.049		
					132322	QPSK	1	0	0	22.70	22.61	0.182
							1	2	0	22.57	22.48	0.177
							1	5	0	22.55	22.46	0.176
							3	0	1	22.70	22.61	0.182
				3			1	1	22.57	22.48	0.177	
				3			2	1	22.55	22.46	0.176	
				16QAM		6	0	1	21.81	21.72	0.149	
						1	0	1	21.79	21.70	0.148	
		1	2			1	21.67	21.58	0.144			
		1	5			1	21.66	21.57	0.144			
		3	0			2	21.79	21.70	0.148			
		3	1			2	21.67	21.58	0.144			
		64QAM	3	2	2	21.66	21.57	0.144				
			6	0	2	20.60	20.51	0.112				
			1	0	2	20.42	20.33	0.108				
			1	2	2	20.47	20.38	0.109				
			1	5	2	20.37	20.28	0.107				
			3	0	3	19.68	19.59	0.091				
		132665	QPSK	3	1	3	19.79	19.70	0.093			
				3	2	3	19.66	19.57	0.091			
				6	0	3	19.65	19.56	0.090			
				1	0	5	17.94	17.85	0.061			
				1	2	5	17.72	17.63	0.058			
				1	5	5	17.59	17.50	0.056			
			16QAM	3	0	5	16.89	16.80	0.048			
				3	1	5	16.78	16.69	0.047			
				3	2	5	16.72	16.63	0.046			
				6	0	5	17.00	16.91	0.049			
		256QAM		1	0	0	22.69	22.60	0.182			
				1	2	0	22.79	22.70	0.186			
			1	5	0	22.66	22.57	0.181				
			3	0	1	21.80	21.71	0.148				
			3	1	1	21.95	21.86	0.153				
			3	2	1	21.80	21.71	0.148				
		1779.3	QPSK	6	0	1	21.80	21.71	0.148			
				1	0	1	21.78	21.69	0.148			
				1	2	1	21.89	21.80	0.151			
				1	5	1	21.77	21.68	0.147			
				3	0	2	20.71	20.62	0.115			
				3	1	2	20.90	20.81	0.121			
			16QAM	3	2	2	20.85	20.76	0.119			
				6	0	2	20.82	20.73	0.118			
				1	0	2	21.63	21.54	0.143			
				1	2	2	21.58	21.49	0.141			
				1	5	2	20.82	20.73	0.118			
				3	0	3	20.97	20.88	0.122			
		64QAM	3	1	3	20.81	20.72	0.118				
			3	2	3	20.81	20.72	0.118				
			6	0	3	20.22	20.13	0.103				
			256QAM	1	0	5	17.85	17.76	0.060			
				1	2	5	17.68	17.59	0.057			
				1	5	5	17.78	17.69	0.059			
				3	0	5	17.06	16.97	0.050			
				3	1	5	16.91	16.82	0.048			
				3	2	5	16.94	16.85	0.048			
6	0		5	16.55	16.46	0.044						

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) P(W) = $1 \text{ W} \cdot 10^{(P(\text{dBm}) / 10)} / 1000$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
66	3	131987	1711.5	QPSK	1	0	0	22.69	22.60	0.182
					1	7	0	22.79	22.70	0.186
					1	14	0	22.66	22.57	0.181
					8	0	1	21.80	21.71	0.148
					8	4	1	21.95	21.86	0.153
					8	7	1	21.80	21.71	0.148
				16QAM	15	0	1	21.80	21.71	0.148
					1	0	1	21.78	21.69	0.148
					1	7	1	21.89	21.80	0.151
					1	14	1	21.77	21.68	0.147
					8	0	2	20.71	20.62	0.115
					8	4	2	20.90	20.81	0.121
					8	7	2	20.85	20.76	0.119
					15	0	2	20.82	20.73	0.118
				64QAM	1	0	2	20.58	20.49	0.112
					1	7	2	20.59	20.50	0.112
					1	14	2	20.50	20.41	0.110
					8	0	3	19.83	19.74	0.094
					8	4	3	19.89	19.80	0.095
					8	7	3	19.75	19.66	0.092
				256QAM	15	0	3	19.68	19.59	0.091
					1	0	5	17.89	17.80	0.060
					1	7	5	17.87	17.78	0.060
					1	14	5	17.71	17.62	0.058
					8	0	5	16.97	16.88	0.049
					8	4	5	17.06	16.97	0.050
		132322	1745.0	QPSK	8	7	5	16.83	16.74	0.047
					15	0	5	16.99	16.90	0.049
					1	0	0	22.75	22.66	0.185
					1	7	0	22.62	22.53	0.179
					1	14	0	22.60	22.51	0.178
					8	0	1	21.86	21.77	0.150
				16QAM	8	4	1	21.78	21.69	0.148
					8	7	1	21.74	21.65	0.146
					15	0	1	21.86	21.77	0.150
					1	0	1	21.84	21.75	0.150
					1	7	1	21.72	21.63	0.146
					1	14	1	21.71	21.62	0.145
				64QAM	8	0	2	20.65	20.56	0.114
					8	4	2	20.73	20.64	0.116
					8	7	2	20.68	20.59	0.115
					15	0	2	20.65	20.56	0.114
					1	0	2	20.47	20.38	0.109
				256QAM	1	7	2	20.54	20.45	0.111
					1	14	2	20.45	20.36	0.109
					8	0	3	19.74	19.65	0.092
					8	4	3	19.83	19.74	0.094
					8	7	3	19.69	19.60	0.091
					15	0	3	19.67	19.58	0.091
		132657	1778.5	QPSK	1	0	5	17.98	17.89	0.062
					1	7	5	17.77	17.68	0.059
					1	14	5	17.63	17.54	0.057
					8	0	5	16.96	16.87	0.049
					8	4	5	16.86	16.77	0.048
					8	7	5	16.79	16.70	0.047
				16QAM	15	0	5	17.03	16.94	0.049
					1	0	0	22.80	22.71	0.187
					1	7	0	22.67	22.58	0.181
					1	14	0	22.74	22.65	0.184
					8	0	1	21.91	21.82	0.152
					8	4	1	21.83	21.74	0.149
				64QAM	8	7	1	21.88	21.79	0.151
					15	0	1	21.91	21.82	0.152
					1	0	1	21.89	21.80	0.151
					1	7	1	21.77	21.68	0.147
					1	14	1	21.85	21.76	0.150
					8	0	2	20.79	20.70	0.117
				256QAM	8	4	2	20.78	20.69	0.117
					8	7	2	20.73	20.64	0.116
					15	0	2	20.70	20.61	0.115
					1	0	2	21.71	21.62	0.145
					1	7	2	21.65	21.56	0.143
					1	14	2	20.89	20.80	0.120
				256QAM	8	0	3	21.02	20.93	0.124
					8	4	3	20.88	20.79	0.120
					8	7	3	20.87	20.78	0.120
					15	0	3	20.24	20.15	0.104
					1	0	5	17.91	17.82	0.061
					1	7	5	17.74	17.65	0.058
					1	14	5	17.86	17.77	0.060
					8	0	5	17.09	17.00	0.050
					8	4	5	16.93	16.84	0.048
					8	7	5	17.01	16.92	0.049
					15	0	5	17.12	17.03	0.050

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) P(W) = $1 \text{ W} \cdot 10^{(P(\text{dBm}) / 10)} / 1000$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
66	5	131997	1712.5	QPSK	1	0	0	22.74	22.65	0.184
					1	12	0	22.84	22.75	0.188
					1	24	0	22.71	22.62	0.183
					12	0	1	21.85	21.76	0.150
					12	6	1	22.00	21.91	0.155
					12	11	1	21.85	21.76	0.150
				16QAM	25	0	1	21.85	21.76	0.150
					1	0	1	21.83	21.74	0.149
					1	12	1	21.94	21.85	0.153
					1	24	1	21.82	21.73	0.149
					12	0	2	20.76	20.67	0.117
					12	6	2	20.95	20.86	0.122
					12	11	2	20.90	20.81	0.121
					25	0	2	20.87	20.78	0.120
				64QAM	1	0	2	20.62	20.53	0.113
					1	12	2	20.65	20.56	0.114
					1	24	2	20.57	20.48	0.112
					12	0	3	19.85	19.76	0.095
					12	6	3	19.96	19.87	0.097
					12	11	3	19.81	19.72	0.094
				256QAM	25	0	3	19.75	19.66	0.092
					1	0	5	17.96	17.87	0.061
					1	12	5	17.93	17.84	0.061
					1	24	5	17.73	17.64	0.058
					12	0	5	16.98	16.89	0.049
					12	6	5	17.12	17.03	0.050
		132322	1745.0	QPSK	12	11	5	16.91	16.82	0.048
					25	0	5	17.01	16.92	0.049
					1	0	0	22.80	22.71	0.187
					1	12	0	22.67	22.58	0.181
					1	24	0	22.65	22.56	0.180
					12	0	1	21.91	21.82	0.152
				16QAM	12	6	1	21.83	21.74	0.149
					12	11	1	21.79	21.70	0.148
					25	0	1	21.91	21.82	0.152
					1	0	1	21.89	21.80	0.151
					1	12	1	21.77	21.68	0.147
					1	24	1	21.76	21.67	0.147
				64QAM	12	0	2	20.70	20.61	0.115
					12	6	2	20.78	20.69	0.117
					12	11	2	20.73	20.64	0.116
					25	0	2	20.70	20.61	0.115
					1	0	2	20.55	20.46	0.111
					1	12	2	20.61	20.52	0.113
				256QAM	1	24	2	20.51	20.42	0.110
					12	0	3	19.76	19.67	0.093
					12	6	3	19.90	19.81	0.096
					12	11	3	19.77	19.68	0.093
					25	0	3	19.69	19.60	0.091
					1	0	5	18.02	17.93	0.062
		132647	1777.5	QPSK	1	12	5	17.84	17.75	0.060
					1	24	5	17.70	17.61	0.058
					12	0	5	16.97	16.88	0.049
					12	6	5	16.92	16.83	0.048
					12	11	5	16.87	16.78	0.048
					25	0	5	17.04	16.95	0.050
				16QAM	1	0	0	22.85	22.76	0.189
					1	12	0	22.72	22.63	0.183
					1	24	0	22.79	22.70	0.186
					12	0	1	21.96	21.87	0.154
					12	6	1	21.88	21.79	0.151
					12	11	1	21.93	21.84	0.153
				64QAM	25	0	1	21.96	21.87	0.154
					1	0	1	21.94	21.85	0.153
					1	12	1	21.82	21.73	0.149
					1	24	1	21.90	21.81	0.152
					12	0	2	20.84	20.75	0.119
					12	6	2	20.83	20.74	0.119
				256QAM	12	11	2	20.78	20.69	0.117
					25	0	2	20.75	20.66	0.116
					1	0	2	21.79	21.70	0.148
					1	12	2	21.73	21.64	0.146
					1	24	2	20.96	20.87	0.122
					12	0	3	21.04	20.95	0.124
				256QAM	12	6	3	20.95	20.86	0.122
					12	11	3	20.93	20.84	0.121
					25	0	3	20.26	20.17	0.104
					1	0	5	17.98	17.89	0.062
					1	12	5	17.80	17.71	0.059
					1	24	5	17.91	17.82	0.061
				256QAM	12	0	5	17.10	17.01	0.050
					12	6	5	16.99	16.90	0.049
					12	11	5	17.09	17.00	0.050
					25	0	5	17.07	16.98	0.050

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) P(W) = $1 \text{ W} \cdot 10^{(P(\text{dBm}) / 10)} / 1000$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
66	10	132022	1715.0	QPSK	1	0	0	22.79	22.70	0.186
					1	24	0	22.89	22.80	0.191
					1	49	0	22.76	22.67	0.185
					25	0	1	21.90	21.81	0.152
					25	12	1	22.05	21.96	0.157
					25	24	1	21.90	21.81	0.152
				16QAM	50	0	1	21.90	21.81	0.152
					1	0	1	21.88	21.79	0.151
					1	24	1	21.99	21.90	0.155
					1	49	1	21.87	21.78	0.151
					25	0	2	20.81	20.72	0.118
					25	12	2	21.00	20.91	0.123
					25	24	2	20.95	20.86	0.122
				64QAM	50	0	2	20.92	20.83	0.121
					1	0	2	20.67	20.58	0.114
					1	24	2	20.70	20.61	0.115
					1	49	2	20.65	20.56	0.114
					25	0	3	19.92	19.83	0.096
					25	12	3	20.01	19.92	0.098
				256QAM	25	24	3	19.87	19.78	0.095
					50	0	3	19.80	19.71	0.094
					1	0	5	18.00	17.91	0.062
					1	24	5	17.99	17.90	0.062
					1	49	5	17.80	17.71	0.059
					25	0	5	17.03	16.94	0.049
		132322	1745.0	QPSK	25	12	5	17.18	17.09	0.051
					25	24	5	16.98	16.89	0.049
					50	0	5	17.08	16.99	0.050
				16QAM	1	0	0	22.85	22.76	0.189
					1	24	0	22.72	22.63	0.183
					1	49	0	22.70	22.61	0.182
					25	0	1	21.96	21.87	0.154
					25	12	1	21.88	21.79	0.151
					25	24	1	21.84	21.75	0.150
				64QAM	50	0	1	21.96	21.87	0.154
					1	0	1	21.94	21.85	0.153
					1	24	1	21.82	21.73	0.149
					1	49	1	21.81	21.72	0.149
					25	0	2	20.75	20.66	0.116
					25	12	2	20.83	20.74	0.119
				256QAM	25	24	2	20.78	20.69	0.117
					50	0	2	20.75	20.66	0.116
				16QAM	1	0	2	20.61	20.52	0.113
					1	24	2	20.67	20.58	0.114
					1	49	2	20.58	20.49	0.112
					25	0	3	19.83	19.74	0.094
				64QAM	25	12	3	19.95	19.86	0.097
					25	24	3	19.83	19.74	0.094
					50	0	3	19.76	19.67	0.093
				256QAM	1	0	5	18.08	17.99	0.063
					1	24	5	17.88	17.79	0.060
					1	49	5	17.76	17.67	0.058
					25	0	5	17.02	16.93	0.049
					25	12	5	16.98	16.89	0.049
					25	24	5	16.94	16.85	0.048
		132622	1775.0	QPSK	50	0	5	17.08	16.99	0.050
					1	0	0	22.90	22.81	0.191
					1	24	0	22.77	22.68	0.185
					1	49	0	22.84	22.75	0.188
					25	0	1	22.01	21.92	0.156
					25	12	1	21.93	21.84	0.153
				16QAM	25	24	1	21.98	21.89	0.155
					50	0	1	22.01	21.92	0.156
					1	0	1	21.99	21.90	0.155
					1	24	1	21.87	21.78	0.151
					1	49	1	21.95	21.86	0.153
					25	0	2	20.89	20.80	0.120
				64QAM	25	12	2	20.88	20.79	0.120
					25	24	2	20.83	20.74	0.119
					50	0	2	20.80	20.71	0.118
					1	0	2	21.86	21.77	0.150
					1	24	2	21.79	21.70	0.148
					1	49	2	21.03	20.94	0.124
				256QAM	25	0	3	21.10	21.01	0.126
					25	12	3	21.02	20.93	0.124
					25	24	3	21.00	20.91	0.123
					50	0	3	20.32	20.23	0.105
					1	0	5	18.02	17.93	0.062
					1	24	5	17.85	17.76	0.060
					1	49	5	17.96	17.87	0.061
					25	0	5	17.14	17.05	0.051
					25	12	5	17.05	16.96	0.050
					25	24	5	17.14	17.05	0.051
					50	0	5	17.21	17.12	0.052

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)		
66	15	132047	1717.5	QPSK	1	0	0	22.84	22.75	0.188		
					1	38	0	22.94	22.85	0.193		
					1	74	0	22.81	22.72	0.187		
					36	0	1	21.95	21.86	0.153		
					36	18	1	22.10	22.01	0.159		
					36	35	1	21.95	21.86	0.153		
				16QAM	75	0	1	21.95	21.86	0.153		
					1	0	1	21.93	21.84	0.153		
					1	38	1	22.04	21.95	0.157		
					1	74	1	21.92	21.83	0.152		
					36	0	2	20.86	20.77	0.119		
					36	18	2	21.05	20.96	0.125		
				64QAM	36	35	2	21.00	20.91	0.123		
					75	0	2	20.97	20.88	0.122		
					1	0	2	20.73	20.64	0.116		
					1	38	2	20.76	20.67	0.117		
					1	74	2	20.69	20.60	0.115		
					36	0	3	19.96	19.87	0.097		
				256QAM	36	18	3	20.05	19.96	0.099		
					36	35	3	19.91	19.82	0.096		
					75	0	3	19.87	19.78	0.095		
					1	0	5	18.05	17.96	0.063		
					1	38	5	18.06	17.97	0.063		
					1	74	5	17.88	17.79	0.060		
				132322	1745.0	QPSK	36	0	5	17.07	16.98	0.050
							36	18	5	17.22	17.13	0.052
							36	35	5	17.02	16.93	0.049
							75	0	5	17.11	17.02	0.050
							1	0	0	22.90	22.81	0.191
							1	38	0	22.77	22.68	0.185
						16QAM	1	74	0	22.75	22.66	0.185
							36	0	1	22.01	21.92	0.156
							36	18	1	21.93	21.84	0.153
							36	35	1	21.89	21.80	0.151
							75	0	1	22.01	21.92	0.156
							1	0	1	21.99	21.90	0.155
		64QAM	1			38	1	21.87	21.78	0.151		
			1			74	1	21.86	21.77	0.150		
			36			0	2	20.80	20.71	0.118		
			36			18	2	20.88	20.79	0.120		
			36			35	2	20.83	20.74	0.119		
			75			0	2	20.80	20.71	0.118		
		256QAM	1			0	2	20.67	20.58	0.114		
			1			38	2	20.72	20.63	0.116		
			1			74	2	20.65	20.56	0.114		
			36			0	3	19.87	19.78	0.095		
			36			18	3	19.99	19.90	0.098		
			36			35	3	19.87	19.78	0.095		
		132597	1772.5			QPSK	75	0	3	19.83	19.74	0.094
							1	0	5	18.12	18.03	0.064
							1	38	5	17.92	17.83	0.061
							1	74	5	17.82	17.73	0.059
							36	0	5	17.10	17.01	0.050
							36	18	5	17.05	16.96	0.050
						16QAM	36	35	5	16.98	16.89	0.049
							75	0	5	17.16	17.07	0.051
							1	0	0	22.95	22.86	0.193
							1	38	0	22.82	22.73	0.187
							1	74	0	22.89	22.80	0.191
							36	0	1	22.06	21.97	0.157
				64QAM	36	18	1	21.98	21.89	0.155		
					36	35	1	22.03	21.94	0.156		
					75	0	1	22.06	21.97	0.157		
					1	0	1	22.04	21.95	0.157		
					1	38	1	21.92	21.83	0.152		
					1	74	1	22.00	21.91	0.155		
				256QAM	36	0	2	20.94	20.85	0.122		
					36	18	2	20.93	20.84	0.121		
					36	35	2	20.88	20.79	0.120		
					75	0	2	20.85	20.76	0.119		
					1	0	2	21.94	21.85	0.153		
					1	38	2	21.84	21.75	0.150		
				QPSK	1	74	2	21.09	21.00	0.126		
					36	0	3	21.18	21.09	0.129		
					36	18	3	21.09	21.00	0.126		
					36	35	3	21.04	20.95	0.124		
					75	0	3	20.38	20.29	0.107		
					1	0	5	18.10	18.01	0.063		
					1	38	5	17.89	17.80	0.060		
					1	74	5	18.01	17.92	0.062		
					36	0	5	17.18	17.09	0.051		
					36	18	5	17.09	17.00	0.050		
					36	35	5	17.18	17.09	0.051		
					75	0	5	17.16	17.07	0.051		

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) P(W) = $1 \text{ W} \cdot 10^{(P(\text{dBm}) / 10)} / 1000$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
2	20	132072	1720.0	QPSK	1	0	0	22.89	22.80	0.191
					1	49	0	22.99	22.90	0.195
					1	99	0	22.86	22.77	0.189
					50	0	1	22.00	21.91	0.155
					50	24	1	22.15	22.06	0.161
					50	49	1	22.00	21.91	0.155
					100	0	1	22.00	21.91	0.155
				16QAM	1	0	1	21.98	21.89	0.155
					1	49	1	22.09	22.00	0.158
					1	99	1	21.97	21.88	0.154
					50	0	2	20.91	20.82	0.121
					50	24	2	21.10	21.01	0.126
					50	49	2	21.05	20.96	0.125
					100	0	2	21.02	20.93	0.124
				64QAM	1	0	2	20.78	20.69	0.117
					1	49	2	20.83	20.74	0.119
					1	99	2	20.76	20.67	0.117
					50	0	3	20.01	19.92	0.098
					50	24	3	20.09	20.00	0.100
					50	49	3	19.99	19.90	0.098
					100	0	3	19.94	19.85	0.097
				256QAM	1	0	5	18.11	18.02	0.063
					1	49	5	18.14	18.05	0.064
					1	99	5	17.93	17.84	0.061
					50	0	5	17.12	17.03	0.050
					50	24	5	17.26	17.17	0.052
					50	49	5	17.10	17.01	0.050
					100	0	5	17.15	17.06	0.051
		132322	1745.0	QPSK	1	0	0	22.95	22.86	0.193
					1	49	0	22.82	22.73	0.187
					1	99	0	22.80	22.71	0.187
					50	0	1	22.06	21.97	0.157
					50	24	1	21.98	21.89	0.155
					50	49	1	21.94	21.85	0.153
					100	0	1	22.06	21.97	0.157
				16QAM	1	0	1	22.04	21.95	0.157
					1	49	1	21.92	21.83	0.152
					1	99	1	21.91	21.82	0.152
					50	0	2	20.85	20.76	0.119
					50	24	2	20.93	20.84	0.121
					50	49	2	20.88	20.79	0.120
					100	0	2	20.85	20.76	0.119
				64QAM	1	0	2	20.72	20.63	0.116
					1	49	2	20.77	20.68	0.117
					1	99	2	20.70	20.61	0.115
					50	0	3	19.95	19.86	0.097
					50	24	3	20.03	19.94	0.099
					50	49	3	19.93	19.84	0.096
					100	0	3	19.88	19.79	0.095
				256QAM	1	0	5	18.17	18.08	0.064
					1	49	5	17.97	17.88	0.061
					1	99	5	17.87	17.78	0.060
					50	0	5	17.18	17.09	0.051
					50	24	5	17.09	17.00	0.050
					50	49	5	17.04	16.95	0.050
					100	0	5	17.21	17.12	0.052
		132572	1770.0	QPSK	1	0	0	23.00	22.91	0.195
					1	49	0	22.87	22.78	0.190
					1	99	0	22.94	22.85	0.193
					50	0	1	22.11	22.02	0.159
					50	24	1	22.03	21.94	0.156
					50	49	1	22.08	21.99	0.158
					100	0	1	22.11	22.02	0.159
				16QAM	1	0	1	22.09	22.00	0.158
					1	49	1	21.97	21.88	0.154
					1	99	1	22.05	21.96	0.157
					50	0	2	20.99	20.90	0.123
					50	24	2	20.98	20.89	0.123
					50	49	2	20.93	20.84	0.121
					100	0	2	21.92	21.83	0.152
				64QAM	1	0	2	21.97	21.88	0.154
					1	49	2	21.90	21.81	0.152
					1	99	2	21.15	21.06	0.128
					50	0	3	21.23	21.14	0.130
					50	24	3	21.13	21.04	0.127
					50	49	3	21.08	20.99	0.126
					100	0	3	20.43	20.34	0.108
				256QAM	1	0	5	18.15	18.06	0.064
					1	49	5	17.94	17.85	0.061
					1	99	5	18.06	17.97	0.063
					50	0	5	17.22	17.13	0.052
					50	24	5	17.13	17.04	0.051
					50	49	5	17.23	17.14	0.052
					100	0	5	17.04	16.95	0.050

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) P(W) = $1 \text{ W} \cdot 10^{(P(\text{dBm}) / 10)} / 1000$

5G NR n66 Power:

Band	SCS	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
n66	15	5	342500	1712.5	DFT-s-OFDM QPSK	50	28	22.88	22.79	0.190
			349000	1745.0	DFT-s-OFDM QPSK	50	28	22.92	22.83	0.192
			355500	1777.5	DFT-s-OFDM QPSK	50	28	22.12	22.03	0.160
Band	SCS	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
n66	15	10	343000	1715.0	DFT-s-OFDM QPSK	50	28	22.91	22.82	0.191
			349000	1745.0	DFT-s-OFDM QPSK	50	28	22.96	22.87	0.194
			355000	1775.0	DFT-s-OFDM QPSK	50	28	22.25	22.16	0.164
Band	SCS	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
n66	15	15	343500	1717.5	DFT-s-OFDM QPSK	50	28	22.87	22.78	0.190
			349000	1745.0	DFT-s-OFDM QPSK	50	28	22.94	22.85	0.193
			354500	1772.5	DFT-s-OFDM QPSK	50	28	22.36	22.27	0.169
Band	SCS	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
n66	15	20	344000	1720.0	DFT-s-OFDM PI/2 BPSK	1	1	22.64	22.55	0.180
						1	53	22.66	22.57	0.181
						1	104	22.83	22.74	0.149
						50	0	22.27	22.18	0.165
						50	28	22.73	22.64	0.184
						50	56	21.78	21.69	0.148
						100	0	22.26	22.17	0.165
					DFT-s-OFDM QPSK	1	1	22.80	22.71	0.187
						1	53	22.71	22.62	0.183
						1	104	21.84	21.75	0.150
						50	0	21.75	21.66	0.147
						50	28	22.72	22.63	0.183
						50	56	21.78	21.69	0.148
						100	0	21.80	21.71	0.148
					DFT-s-OFDM 16QAM	1	1	21.75	21.66	0.147
					DFT-s-OFDM 64QAM	1	1	20.32	20.23	0.105
					DFT-s-OFDM 256QAM	1	1	17.87	17.78	0.060
			349000	1745.0	DFT-s-OFDM PI/2 BPSK	1	1	22.86	22.77	0.189
						1	53	22.91	22.82	0.191
						1	104	22.47	22.38	0.173
						50	0	22.40	22.31	0.170
						50	28	22.90	22.81	0.191
						50	56	22.20	22.11	0.163
						100	0	22.26	22.17	0.165
					DFT-s-OFDM QPSK	1	1	22.80	22.71	0.187
						1	53	22.77	22.68	0.185
						1	104	22.48	22.39	0.173
						50	0	21.93	21.84	0.153
						50	28	22.91	22.82	0.191
						50	56	21.80	21.71	0.148
						100	0	21.78	21.69	0.148
					DFT-s-OFDM 16QAM	1	1	22.02	21.93	0.156
					DFT-s-OFDM 64QAM	1	1	20.13	20.04	0.101
					DFT-s-OFDM 256QAM	1	1	18.02	17.93	0.062
			354000	1770.0	DFT-s-OFDM PI/2 BPSK	1	1	22.34	22.25	0.168
						1	53	22.03	21.94	0.156
						1	104	21.81	21.72	0.149
						50	0	21.73	21.64	0.146
						50	28	22.22	22.13	0.163
						50	56	21.55	21.46	0.140
						100	0	21.60	21.51	0.142
					DFT-s-OFDM QPSK	1	1	22.27	22.18	0.165
						1	53	22.04	21.95	0.157
						1	104	21.77	21.68	0.147
						50	0	21.31	21.22	0.132
						50	28	22.15	22.06	0.161
						50	56	20.92	20.83	0.121
						100	0	21.20	21.11	0.129
					DFT-s-OFDM 16QAM	1	1	21.57	21.48	0.141
					DFT-s-OFDM 64QAM	1	1	19.64	19.55	0.090
					DFT-s-OFDM 256QAM	1	1	17.57	17.48	0.056

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) P(W) = $1 \text{ W} \cdot 10^{(P(\text{dBm}) / 10)} / 1000$

APPENDIX B OCCUPIED BANDWIDTH

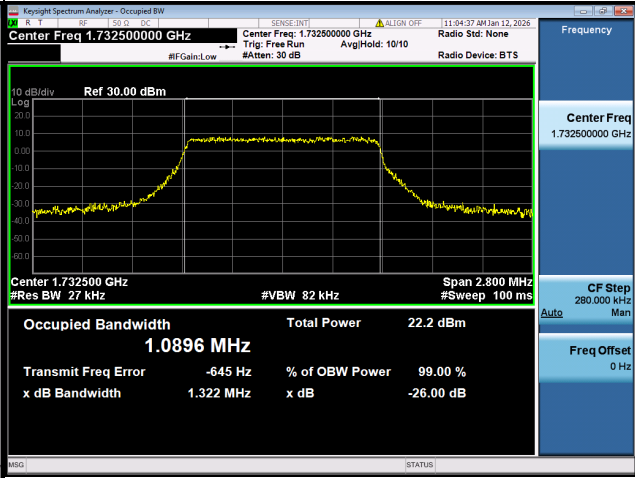
LTE Band 4_1.4M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19957	1710.7	1.0877	19957	1710.7	1.341
20175	1732.5	1.0896	20175	1732.5	1.322
20393	1754.3	1.0870	20393	1754.3	1.344
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19957	1710.7	1.0845	19957	1710.7	1.348
20175	1732.5	1.0872	20175	1732.5	1.332
20393	1754.3	1.0866	20393	1754.3	1.341
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19957	1710.7	1.0861	19957	1710.7	1.336
20175	1732.5	1.0864	20175	1732.5	1.326
20393	1754.3	1.0869	20393	1754.3	1.334
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19957	1710.7	1.0879	19957	1710.7	1.351
20175	1732.5	1.0882	20175	1732.5	1.334
20393	1754.3	1.0880	20393	1754.3	1.329

Spectrum Plot

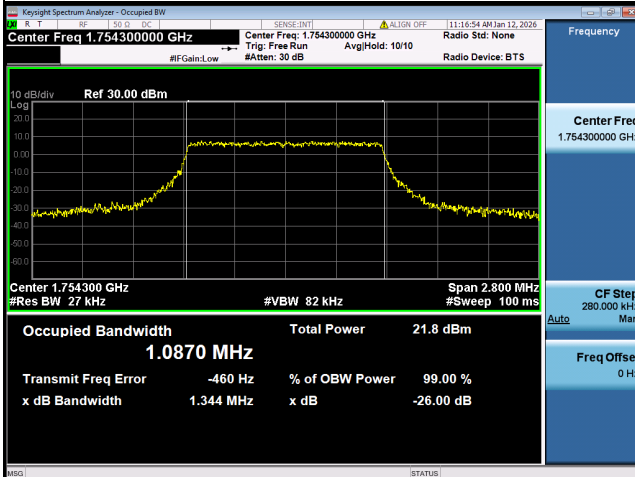
QPSK-19957



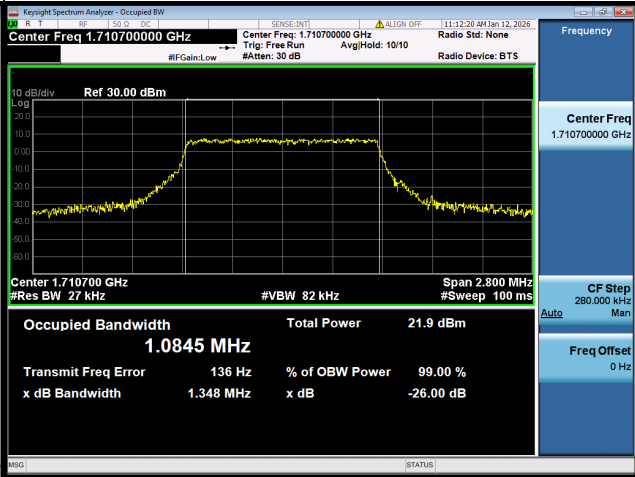
QPSK-20175



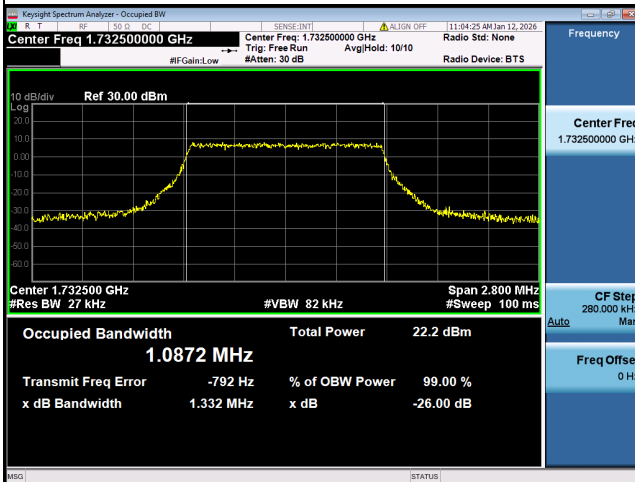
QPSK-20393



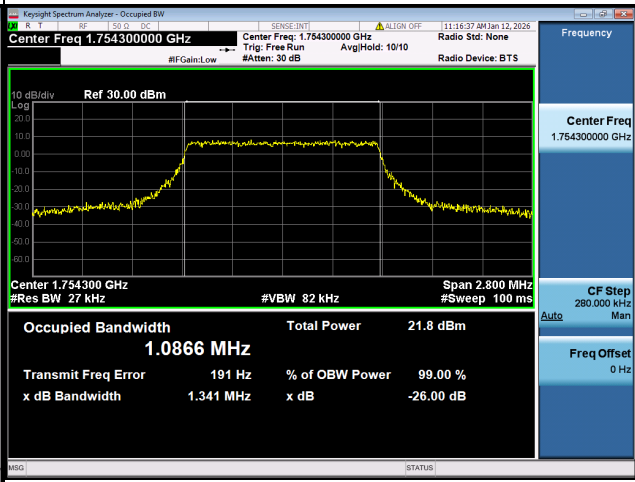
16QAM-19957

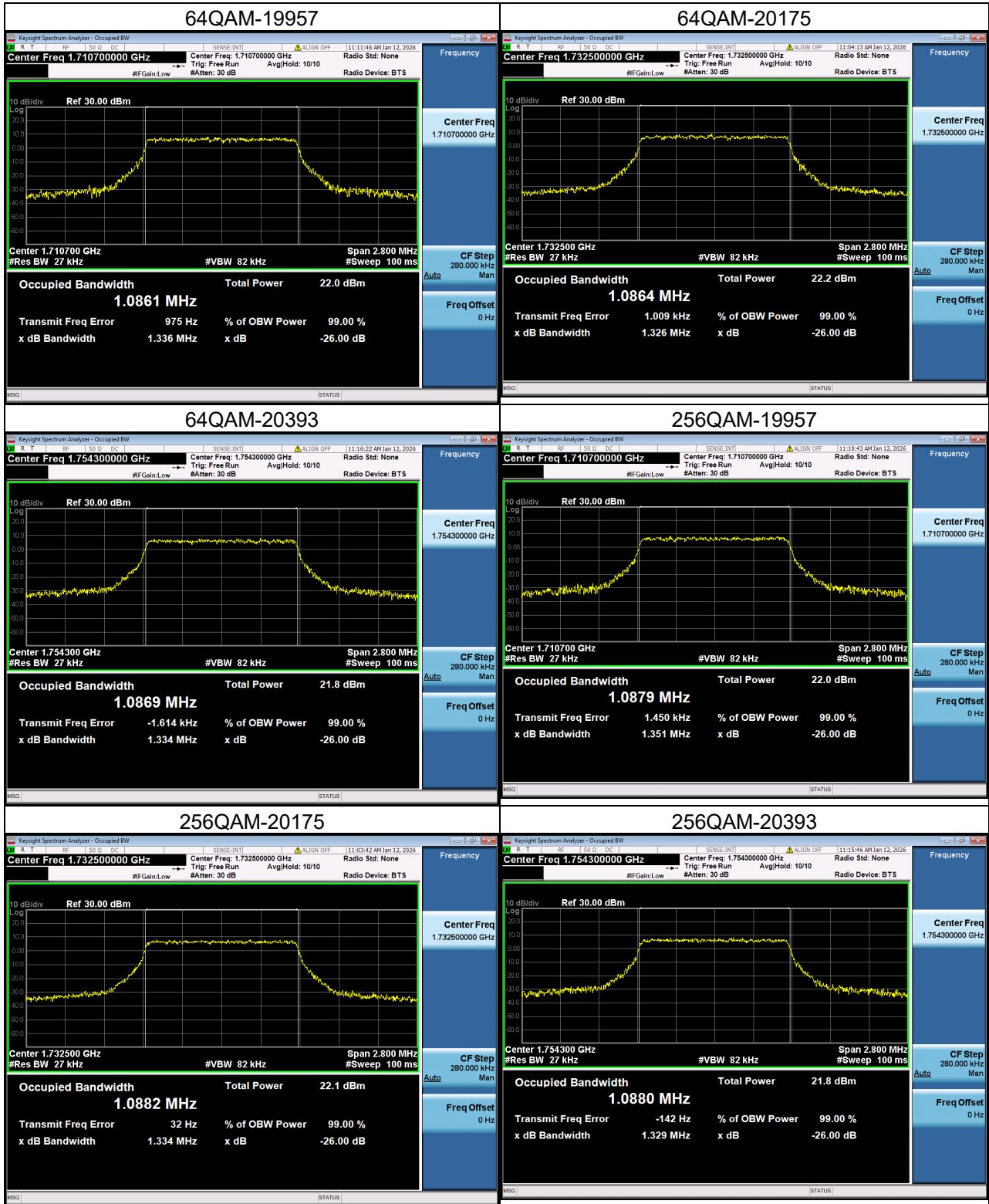


16QAM-20175



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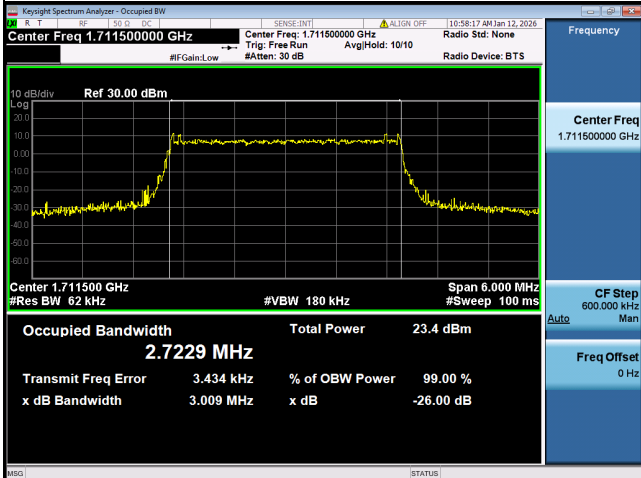




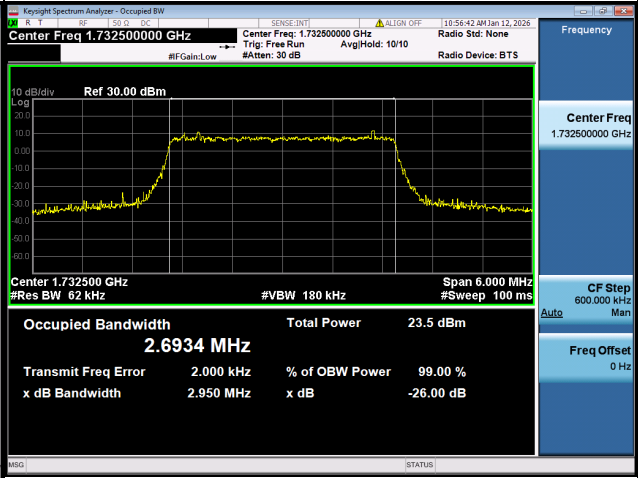
LTE Band 4_3M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19965	1711.5	2.7229	19965	1711.5	3.009
20175	1732.5	2.6934	20175	1732.5	2.950
20385	1753.5	2.7066	20385	1753.5	2.935
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19965	1711.5	2.7179	19965	1711.5	2.934
20175	1732.5	2.6906	20175	1732.5	2.912
20385	1753.5	2.7141	20385	1753.5	2.923
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19965	1711.5	2.6902	19965	1711.5	2.927
20175	1732.5	2.6859	20175	1732.5	2.935
20385	1753.5	2.6899	20385	1753.5	2.968
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19965	1711.5	2.7048	19965	1711.5	2.982
20175	1732.5	2.6857	20175	1732.5	2.959
20385	1753.5	2.7307	20385	1753.5	2.971

Spectrum Plot

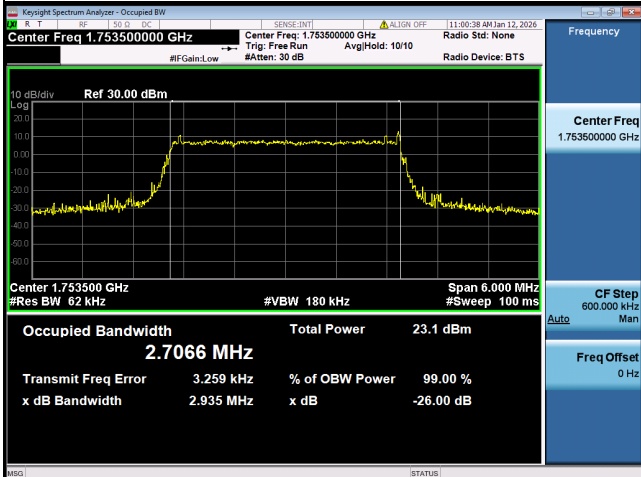
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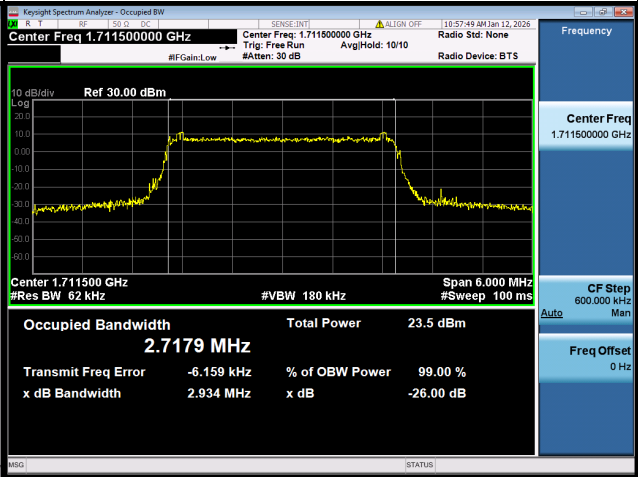
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QPSK-20385



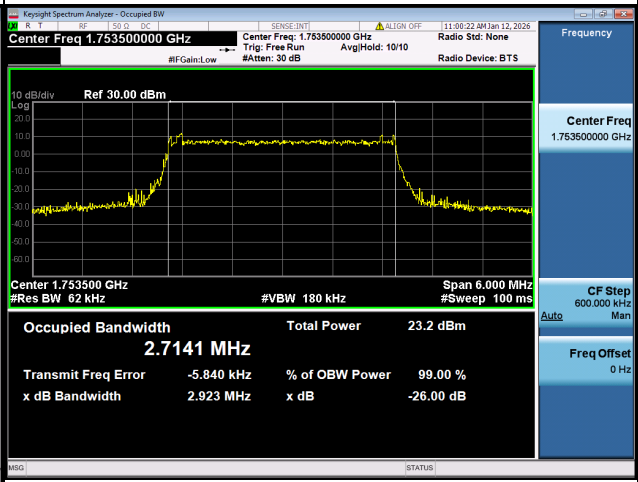
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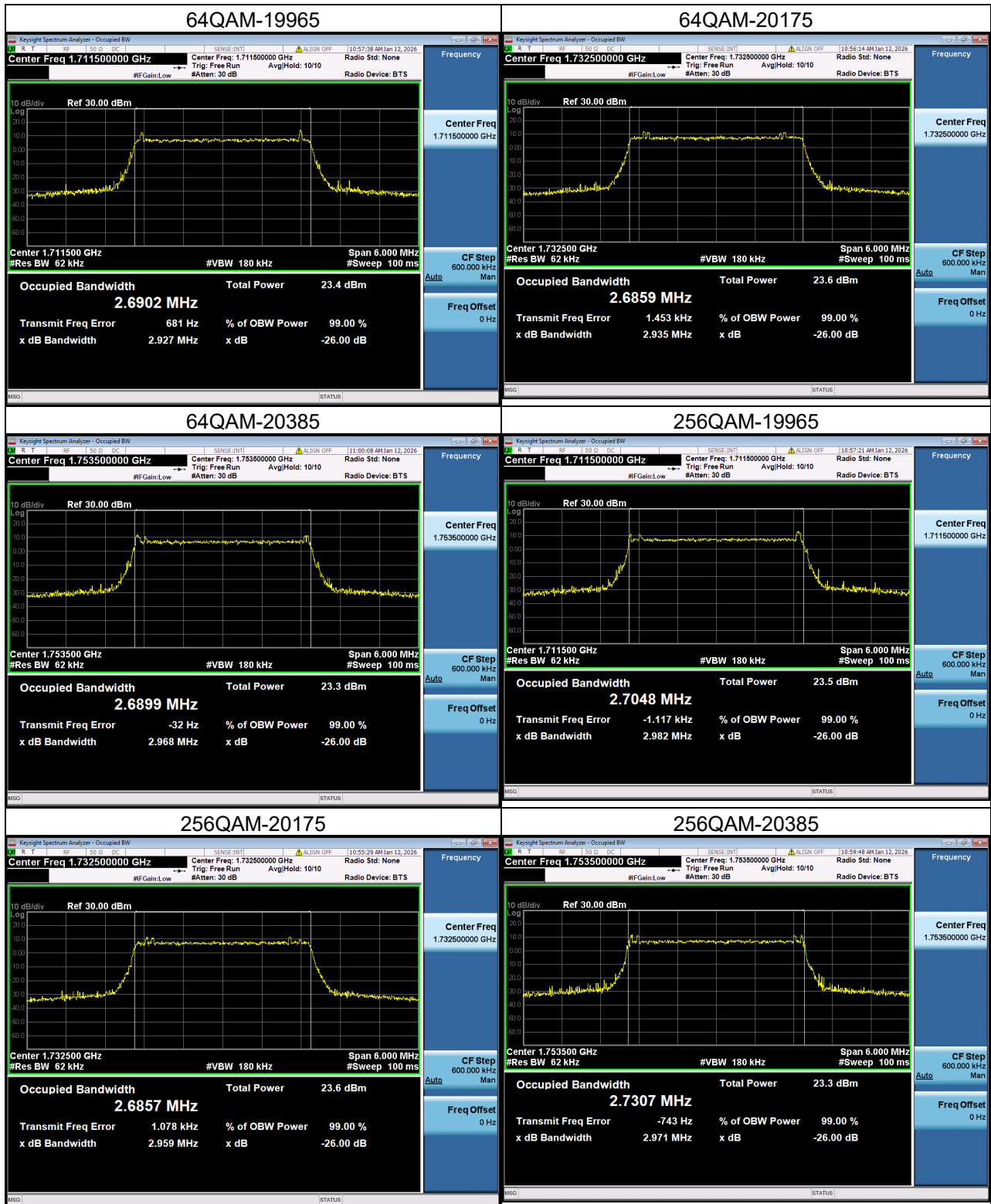


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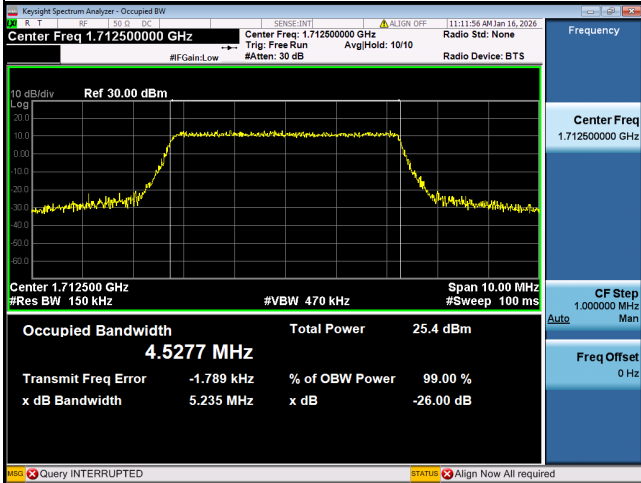




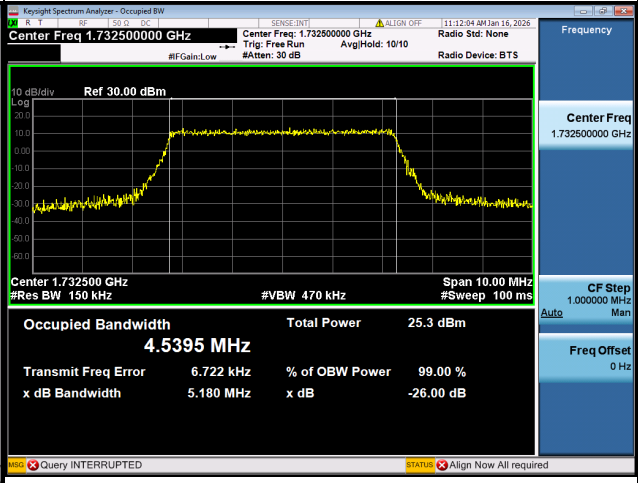
LTE Band 4_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19975	1712.5	4.5277	19975	1712.5	5.235
20175	1732.5	4.5395	20175	1732.5	5.180
20375	1752.5	4.5281	20375	1752.5	5.175
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19975	1712.5	4.5334	19975	1712.5	5.196
20175	1732.5	4.5422	20175	1732.5	5.118
20375	1752.5	4.5343	20375	1752.5	5.199
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19975	1712.5	4.5326	19975	1712.5	5.206
20175	1732.5	4.5369	20175	1732.5	5.195
20375	1752.5	4.5501	20375	1752.5	5.245
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19975	1712.5	4.4852	19975	1712.5	5.034
20175	1732.5	4.4779	20175	1732.5	5.051
20375	1752.5	4.4849	20375	1752.5	5.092

Spectrum Plot

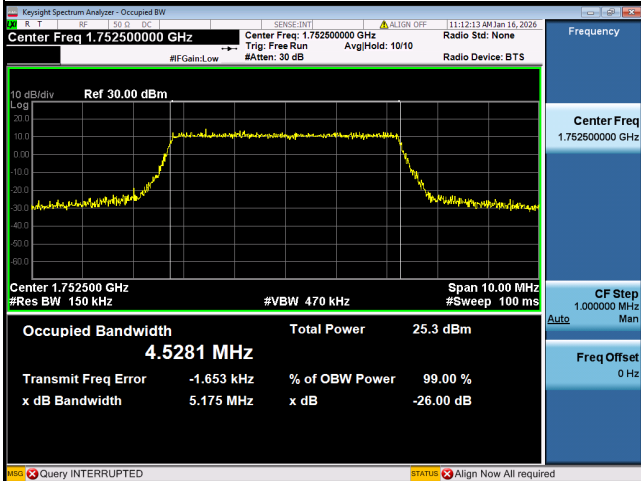
QPSK-19975



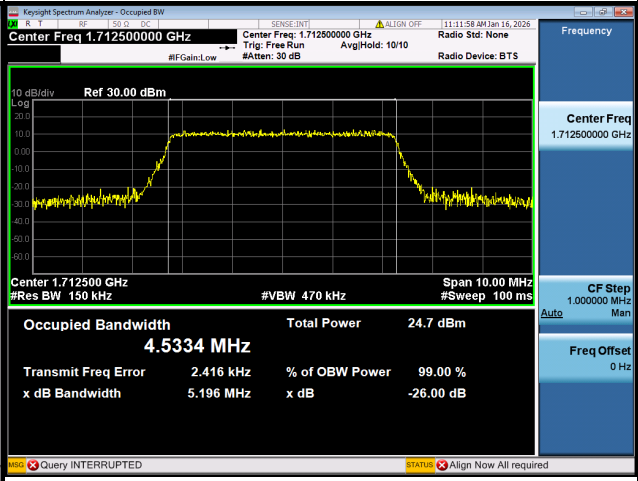
QPSK-20175



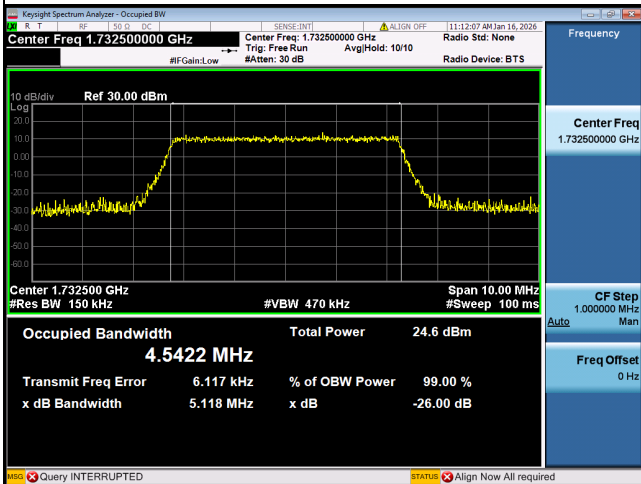
QPSK-20375



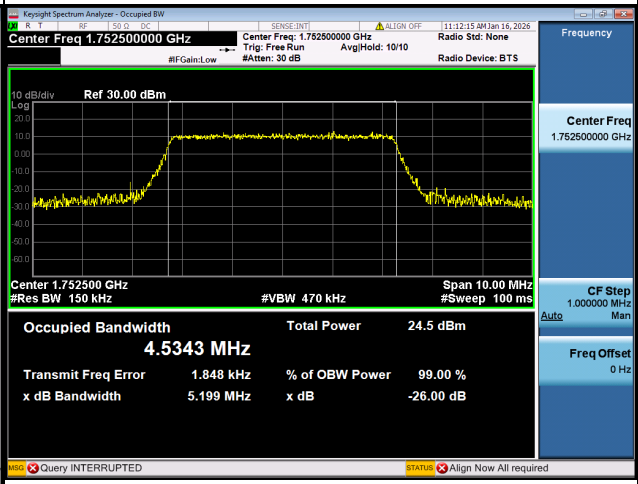
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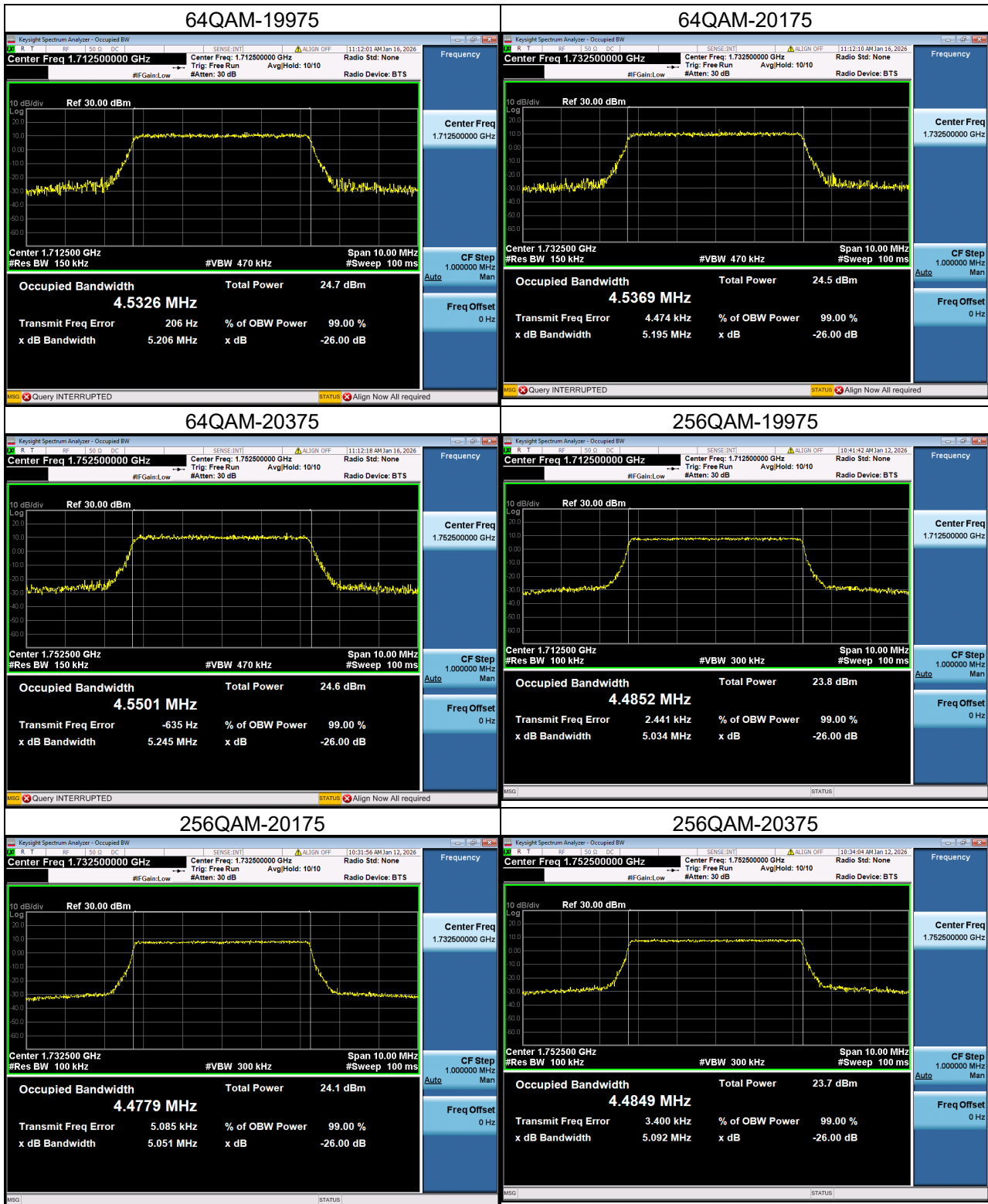


16QAM-20175



16QAM-20375

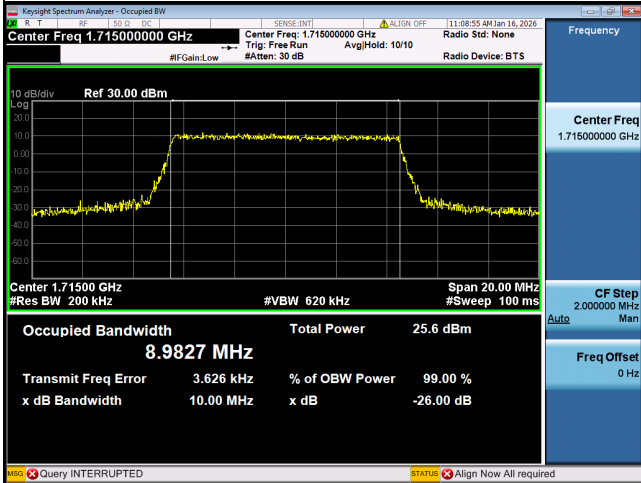




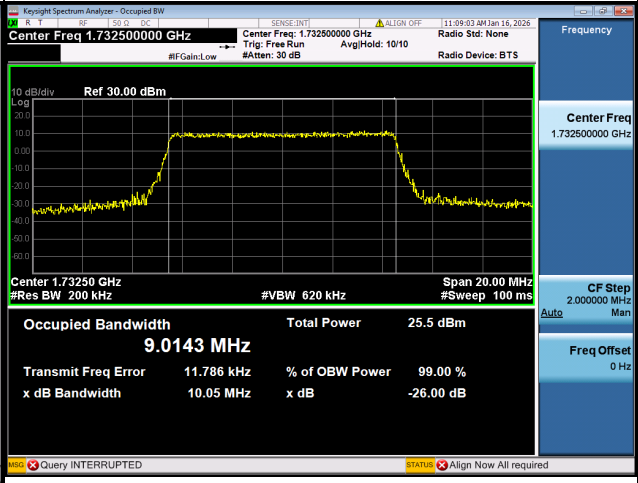
LTE Band 4_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20000	1715	8.9827	20000	1715	10.00
20175	1732.5	9.0143	20175	1732.5	10.05
20350	1750	8.9969	20350	1750	10.07
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20000	1715	8.9820	20000	1715	9.920
20175	1732.5	8.9970	20175	1732.5	10.09
20350	1750	8.9618	20350	1750	9.936
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20000	1715	8.9633	20000	1715	10.07
20175	1732.5	8.9919	20175	1732.5	10.05
20350	1750	8.9783	20350	1750	10.00
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20000	1715	8.9474	20000	1715	9.915
20175	1732.5	8.9740	20175	1732.5	9.974
20350	1750	8.9563	20350	1750	9.923

Spectrum Plot

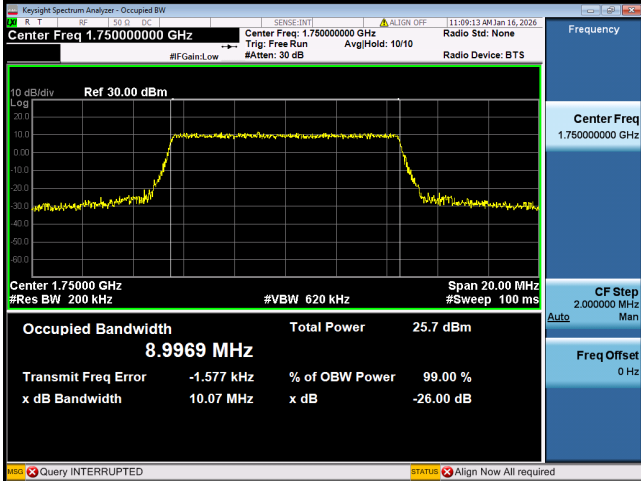
QPSK-20000



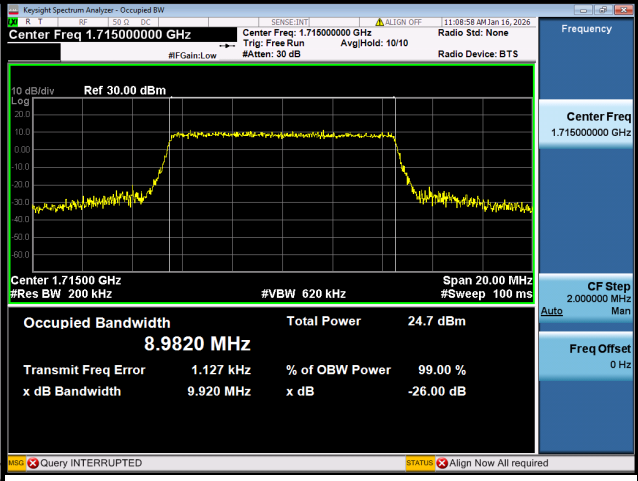
QPSK-20175



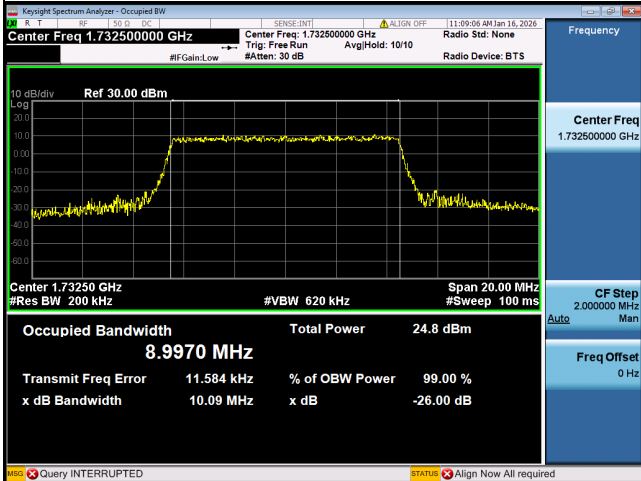
QPSK-20350



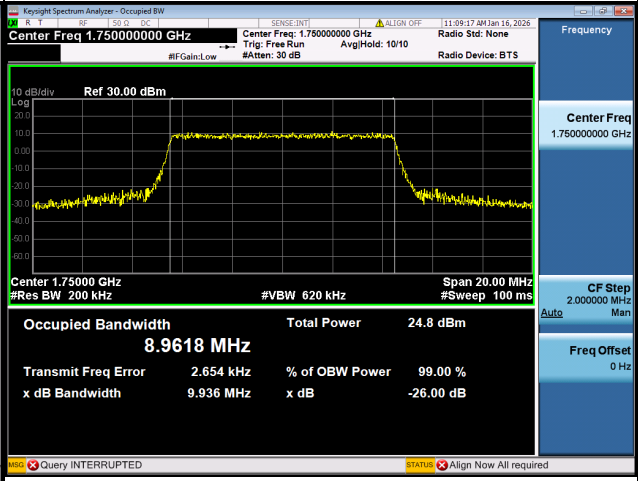
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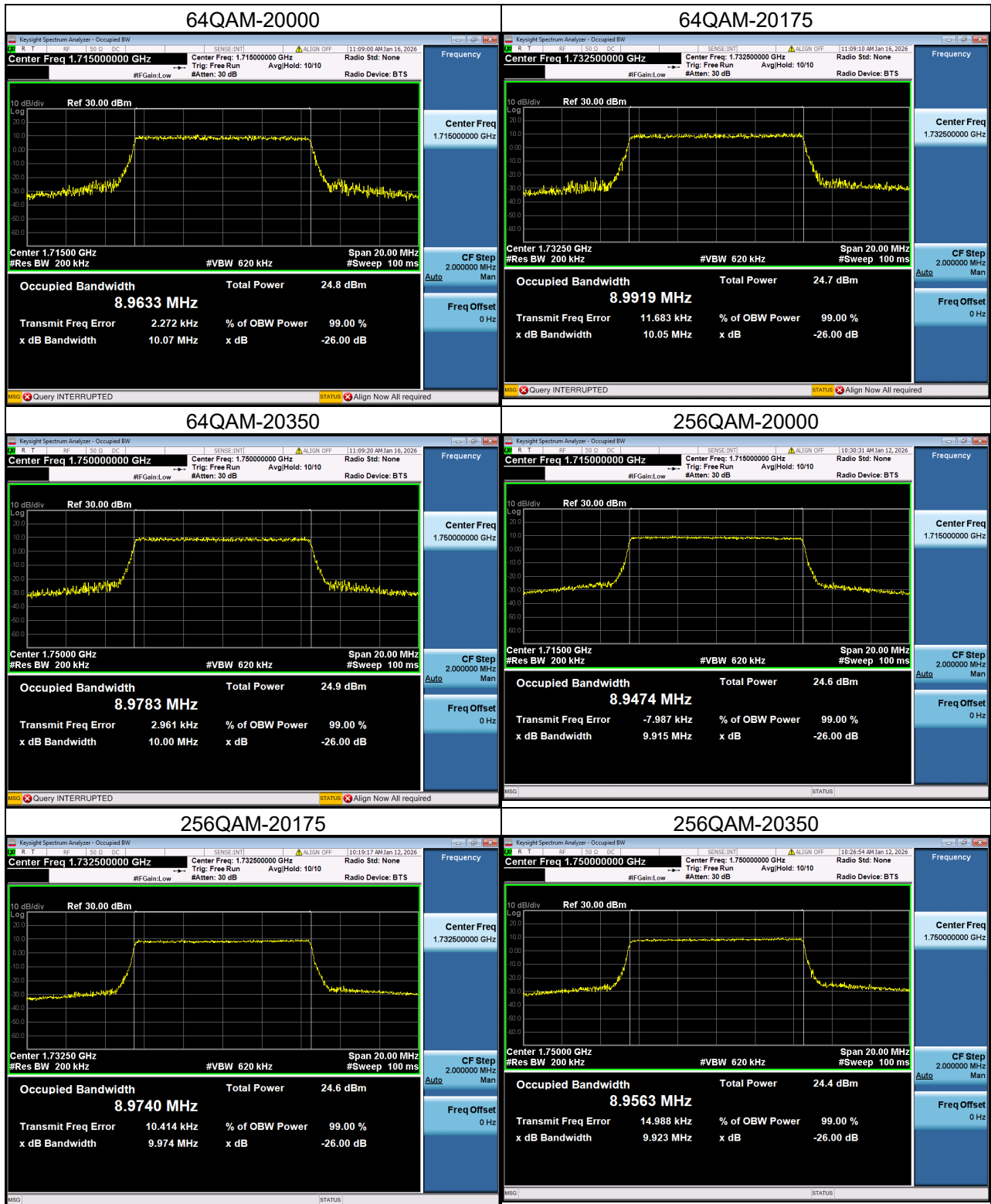


16QAM-20175



16QAM-20350

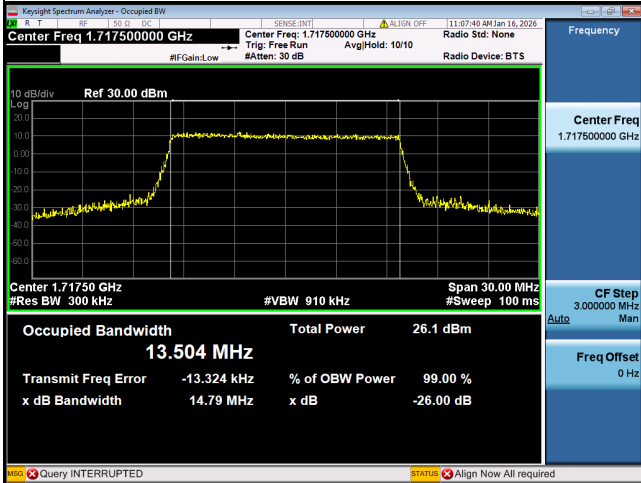




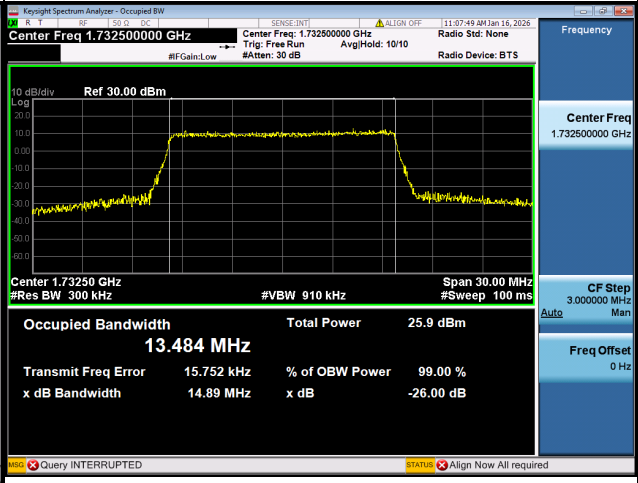
LTE Band 4_15M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20025	1717.5	13.504	20025	1717.5	14.79
20175	1732.5	13.484	20175	1732.5	14.89
20325	1747.5	13.491	20325	1747.5	14.99
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20025	1717.5	13.458	20025	1717.5	14.97
20175	1732.5	13.477	20175	1732.5	14.89
20325	1747.5	13.458	20325	1747.5	14.82
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20025	1717.5	14.484	20025	1717.5	14.87
20175	1732.5	13.478	20175	1732.5	14.95
20325	1747.5	13.455	20325	1747.5	15.02
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20025	1717.5	13.413	20025	1717.5	14.62
20175	1732.5	13.464	20175	1732.5	14.76
20325	1747.5	13.427	20325	1747.5	14.68

Spectrum Plot

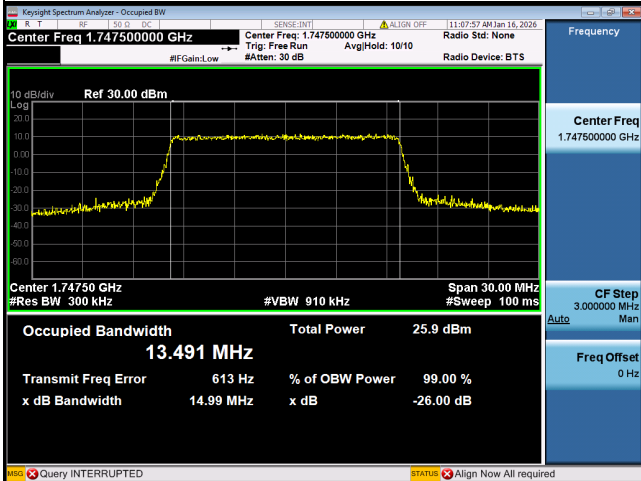
QPSK-20025



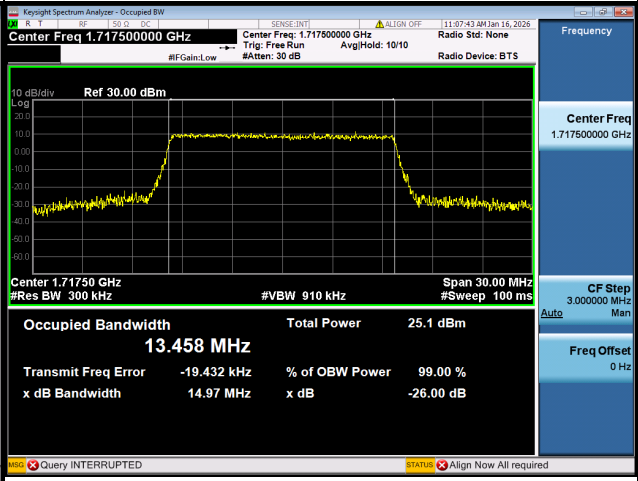
QPSK-20175



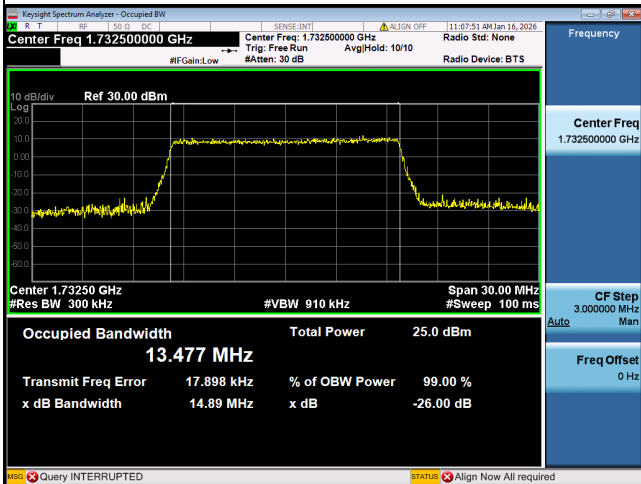
QPSK-20325



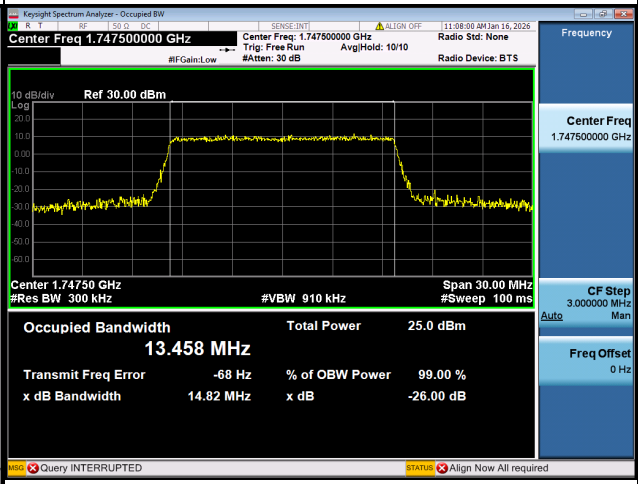
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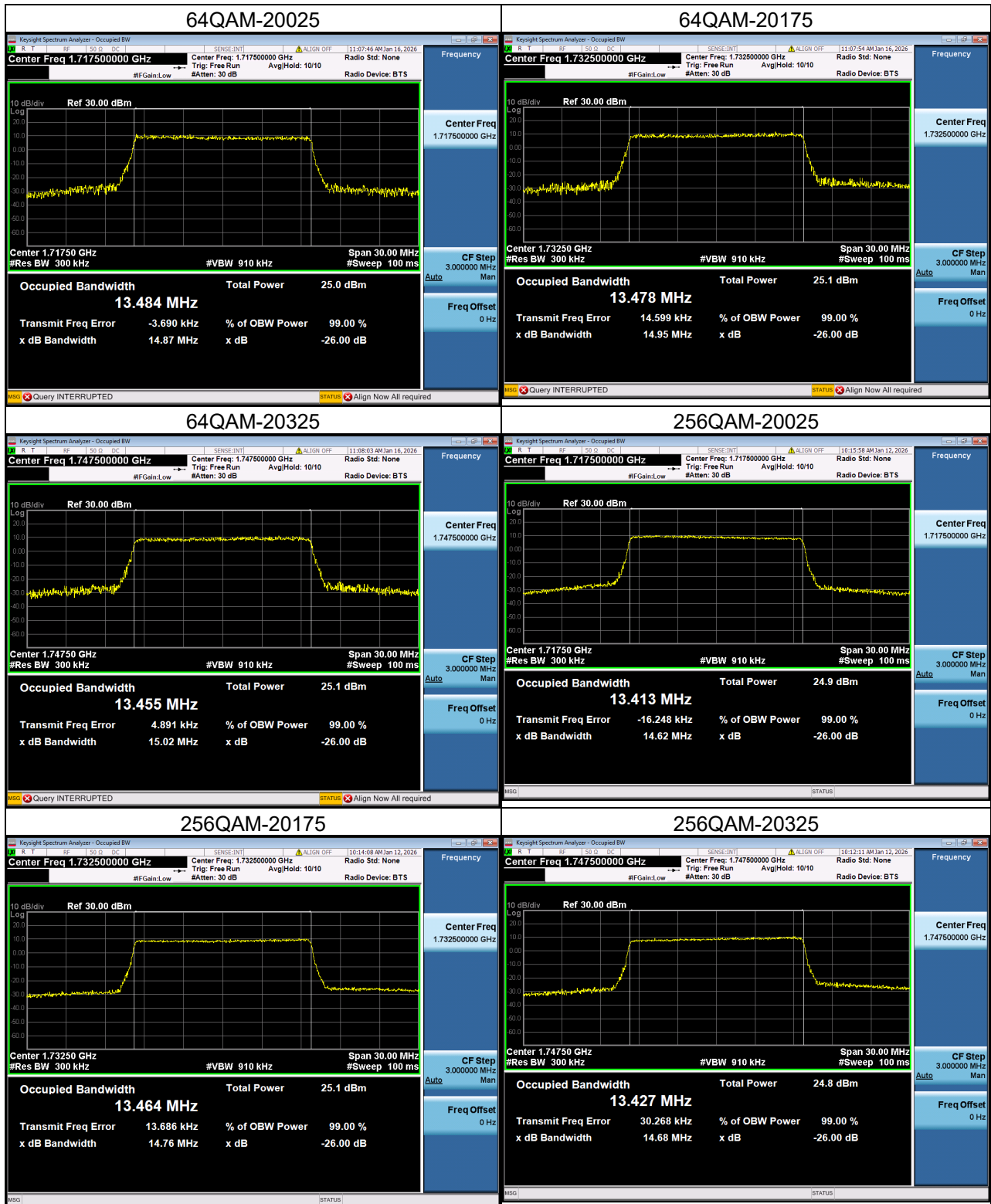


16QAM-20175



16QAM-20325

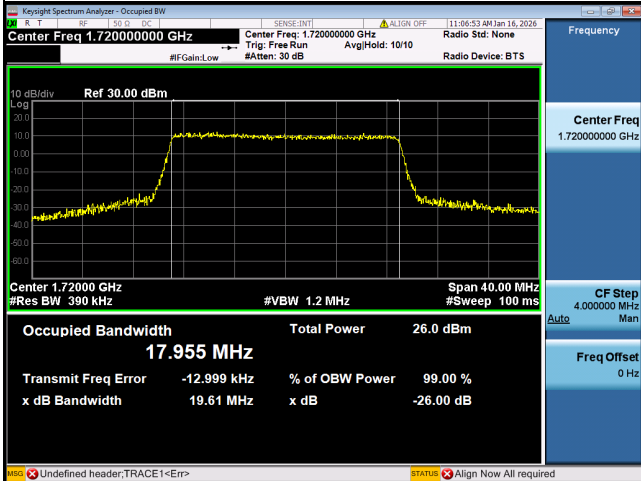




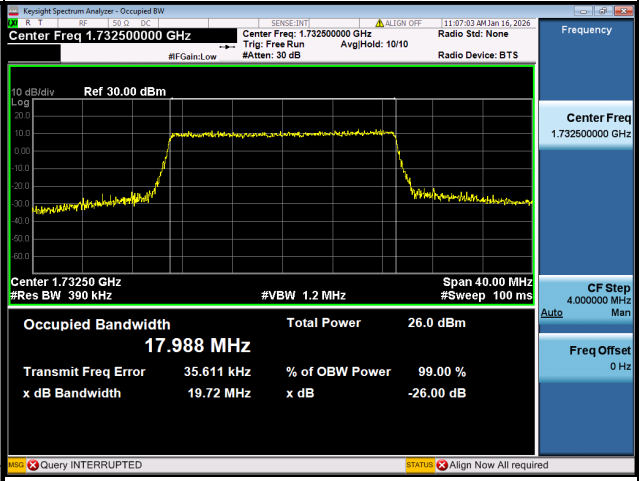
LTE Band 4_20M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20050	1720	17.955	20050	1720	19.61
20175	1732.5	17.988	20175	1732.5	19.72
20300	1740	17.905	20300	1740	19.71
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20050	1720	18.002	20050	1720	19.62
20175	1732.5	17.996	20175	1732.5	19.59
20300	1740	17.940	20300	1740	19.73
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20050	1720	17.958	20050	1720	19.68
20175	1732.5	17.989	20175	1732.5	19.67
20300	1740	17.941	20300	1740	19.65
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20050	1720	17.906	20050	1720	19.41
20175	1732.5	17.963	20175	1732.5	19.65
20300	1740	17.894	20300	1740	19.25

Spectrum Plot

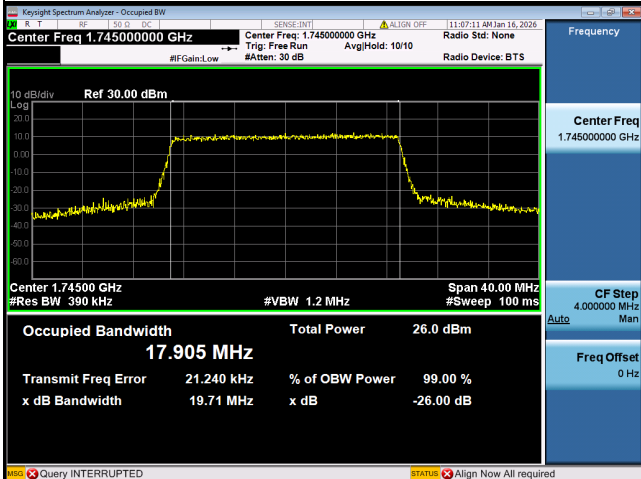
QPSK-20050



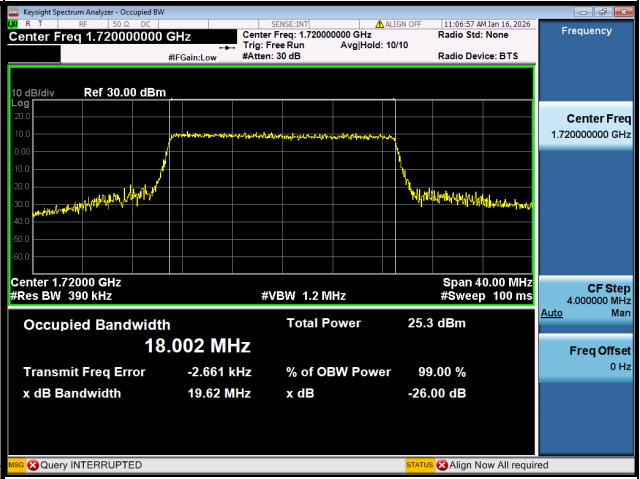
QPSK-20175



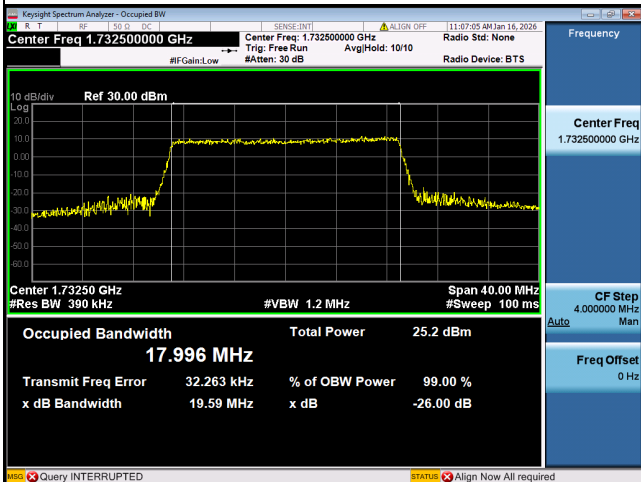
QPSK-20300



16QAM-20050



16QAM-20175



16QAM-20300

