

FCC Test Report

(Part 27 – SA Mode: n7, n38, n41, n66, n71, n77 Band)

Report No.: RF200514C16A-2

FCC ID: T8GSAN9000

Test Model: SA-N9000 OEM D1

Received Date: May 14, 2020

Test Date: Nov. 10 ~ Dec. 03, 2020

Issued Date: Dec. 08, 2020

Applicant: Harman Connected Car Division

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF200514C16A-2	Original release	Dec. 08, 2020

1 Certificate of Conformity

Product: Module

Brand: Harman

Test Model: SA-N9000 OEM D1

Sample Status: Standard Sample

Applicant: Harman Connected Car Division

Test Date: Nov. 10 ~ Dec. 03, 2020

Standards: FCC Part 27, Subpart L, M, N, O

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Celine Chou , **Date:** Dec. 08, 2020
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Dec. 08, 2020
Bruce Chen / Senior Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 27 & Part 2							
FCC Clause				Test Item	Result	Remarks	
n7, n38, n41,	n66	n71	n77				
2.1046 27.50 (h)(2)	2.1046 27.50 (d)(4)	2.1046 27.50 (c)	2.1046 27.50 (j)	Equivalent Isotropically Radiated Power / Equivalent Radiated Power	Pass	Meet the requirement of limit.	
2.1047	2.1047	2.1047	2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.	
----	27.50 (d)(5)	----	----	Peak To Average Ratio	Pass	Meet the requirement of limit.	
2.1055 27.54	2.1055 27.54	2.1055 27.54	2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Meet the requirement of limit.	
2.1049	2.1049	2.1049	2.1049	Occupied Bandwidth	Pass	Meet the requirement of limit.	
2.1051 27.53 (m)(4)(6)	2.1051 27.53(h)	2.1051 27.53(g)	2.1051 27.53(l)	Band Edge Measurements	Pass	Meet the requirement of limit.	
2.1051 27.53 (m)(4)(6)	2.1051 27.53(h)	2.1051 27.53(g)	2.1051 27.53(l)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.	
2.1053 27.53 (m)(4)(6)	2.1053 27.53(h)	2.1053 27.53(g)	2.1053 27.53(l)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -8.50dB at 35.67MHz.	

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.63 dB
	200MHz ~ 1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Dec. 31, 2019	Dec. 30, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 16, 2020	Sep. 15, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Nov. 03, 2020	Nov. 02, 2021
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Nov. 24, 2019	Nov. 23, 2020
			Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 24, 2019	Nov. 23, 2020
			Nov. 22, 2020	Nov. 21, 2021
Horn Antenna ETS	3117	00034128	Nov. 24, 2019	Nov. 23, 2020
			Nov. 22, 2020	Nov. 21, 2021
MXG Vector signal generator Agilent	N5182B	MY53050162	Jan. 14, 2020	Jan. 13, 2021
Spectrum Analyzer KEYSIGHT	N9030B	MY57140953	Jul. 02, 2020	Jul. 01, 2021
5G Wireless Test Platforms Keysight	E7515B	MY58300759	Apr. 18, 2020	Apr. 17, 2021
Loop Antenna TESEQ	HLA 6121	45745	Jul. 06, 2020	Jul. 05, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10631	Jun. 08, 2020	Jun. 07, 2021
Preamplifier KEYSIGHT (Above 1GHz)	83017A	MY53270295	Jun. 08, 2020	Jun. 07, 2021
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH4-01	Aug. 16, 2020	Aug. 15, 2021
RF Coaxial Cable EMCI	EMC102-KM-KM-300 0	150929	Aug. 16, 2020	Aug. 15, 2021
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Jun. 08, 2020	Jun. 07, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Jun. 08, 2020	Jun. 07, 2021
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Sep. 04, 2020	Sep. 03, 2021
Standard Temperature And Humidity Chamber TERCHY	MHU-225AU	920842	May 27, 2020	May 26, 2021
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
True RMS Clamp Meter Fluke	325	31130711WS	Jun. 06, 2020	Jun. 05, 2021
DC power supply	U8002A	MY56330015	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 4.

3 General Information

3.1 General Description of EUT

Product	Module	
Brand	Harman	
Test Model	SA-N9000 OEM D1	
Sample Status	Standard Sample	
Power Supply rating	4.2Vdc	
Modulation Type	$\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM	
Waveform Type	CP-OFDM, DFT-s-OFDM	
Operating Frequency	n7 (Channel Bandwidth: 5MHz)	2502.5 ~ 2567.5MHz
	n7 (Channel Bandwidth: 10MHz)	2505.0 ~ 2565.0MHz
	n7 (Channel Bandwidth: 15MHz)	2507.5 ~ 2562.5MHz
	n7 (Channel Bandwidth: 20MHz)	2510.0 ~ 2560.0MHz
	n38 (Channel Bandwidth: 10MHz)	2575.0 ~ 2615.0MHz
	n38 (Channel Bandwidth: 15MHz)	2577.5 ~ 2612.5MHz
	n38 (Channel Bandwidth: 20MHz)	2580.0 ~ 2610.0MHz
	n41 (Channel Bandwidth: 10MHz)	2501.01 ~ 2685.00MHz
	n41 (Channel Bandwidth: 15MHz)	2503.50 ~ 2682.48MHz
	n41 (Channel Bandwidth: 20MHz)	2506.02 ~ 2679.99MHz
	n41 (Channel Bandwidth: 40MHz)	2516.01 ~ 2670.00MHz
	n41 (Channel Bandwidth: 50MHz)	2521.02 ~ 2664.99MHz
	n41 (Channel Bandwidth: 60MHz)	2526.00 ~ 2659.98MHz
	n41 (Channel Bandwidth: 80MHz)	2536.02 ~ 2649.99MHz
	n41 (Channel Bandwidth: 90MHz)	2541.00 ~ 2644.98MHz
	n41 (Channel Bandwidth: 100MHz)	2546.01 ~ 2640.00MHz
	n66 (Channel Bandwidth: 5MHz)	1712.5 ~ 1777.5MHz
	n66 (Channel Bandwidth: 10MHz)	1715.0 ~ 1775.0MHz
	n66 (Channel Bandwidth: 15MHz)	1717.5 ~ 1772.5MHz
	n66 (Channel Bandwidth: 20MHz)	1720.0 ~ 1770.0MHz
	n66 (Channel Bandwidth: 40MHz)	1730.0 ~ 1760.0MHz
	n71 (Channel Bandwidth: 5MHz)	665.5 ~ 695.5MHz
	n71 (Channel Bandwidth: 10MHz)	668.0 ~ 693.0MHz
	n71 (Channel Bandwidth: 15MHz)	670.5 ~ 690.5MHz
	n71 (Channel Bandwidth: 20MHz)	673.0 ~ 688.0MHz
	n77 (Channel Bandwidth: 10MHz)	3705.00 ~ 3975.00MHz
	n77 (Channel Bandwidth: 15MHz)	3707.52 ~ 3972.48MHz
	n77 (Channel Bandwidth: 20MHz)	3710.01 ~ 3969.99MHz
	n77 (Channel Bandwidth: 40MHz)	3720.00 ~ 3960.00MHz
	n77 (Channel Bandwidth: 50MHz)	3725.01 ~ 3954.99MHz
	n77 (Channel Bandwidth: 60MHz)	3730.02 ~ 3949.98MHz
	n77 (Channel Bandwidth: 80MHz)	3740.01 ~ 3939.99MHz
	n77 (Channel Bandwidth: 90MHz)	3745.02 ~ 3934.98MHz
	n77 (Channel Bandwidth: 100MHz)	3750.00 ~ 3930.00MHz

		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
Max. EIRP Power	n7 (Channel Bandwidth: 5MHz)	426.580mW (26.30dBm)	211.349mW (23.25dBm)	213.304mW (23.29dBm)	184.927mW (22.67dBm)	92.470mW (19.66dBm)
	n7 (Channel Bandwidth: 10MHz)	419.759mW (26.23dBm)	212.814mW (23.28dBm)	211.349mW (23.25dBm)	184.077mW (22.65dBm)	92.683mW (19.67dBm)
	n7 (Channel Bandwidth: 15MHz)	420.727mW (26.24dBm)	211.836mW (23.26dBm)	212.814mW (23.28dBm)	185.353mW (22.68dBm)	92.897mW (19.68dBm)
	n7 (Channel Bandwidth: 20MHz)	425.598mW (26.29dBm)	212.324mW (23.27dBm)	211.836mW (23.26dBm)	185.780mW (22.69dBm)	93.325mW (19.70dBm)
	n38 (Channel Bandwidth: 10MHz)	374.973mW (25.74dBm)	186.638mW (22.71dBm)	181.134mW (22.58dBm)	168.655mW (22.27dBm)	84.723mW (19.28dBm)
	n38 (Channel Bandwidth: 15MHz)	376.704mW (25.76dBm)	187.932mW (22.74dBm)	180.717mW (22.57dBm)	169.044mW (22.28dBm)	84.723mW (19.28dBm)
	n38 (Channel Bandwidth: 20MHz)	378.443mW (25.78dBm)	189.234mW (22.77dBm)	181.134mW (22.58dBm)	168.655mW (22.27dBm)	84.333mW (19.26dBm)
	n41 (Channel Bandwidth: 10MHz)	398.107mW (26.00dBm)	199.067mW (22.99dBm)	190.546mW (22.80dBm)	177.828mW (22.50dBm)	89.125mW (19.50dBm)
	n41 (Channel Bandwidth: 15MHz)	393.550mW (25.95dBm)	198.153mW (22.97dBm)	189.671mW (22.78dBm)	177.011mW (22.48dBm)	88.512mW (19.47dBm)
	n41 (Channel Bandwidth: 20MHz)	397.192mW (25.99dBm)	199.526mW (23.00dBm)	190.546mW (22.80dBm)	177.828mW (22.50dBm)	88.105mW (19.45dBm)
	n41 (Channel Bandwidth: 40MHz)	395.367mW (25.97dBm)	199.526mW (23.00dBm)	189.671mW (22.78dBm)	177.419mW (22.49dBm)	88.920mW (19.49dBm)
	n41 (Channel Bandwidth: 50MHz)	397.192mW (25.99dBm)	198.609mW (22.98dBm)	189.671mW (22.78dBm)	177.419mW (22.49dBm)	88.716mW (19.48dBm)
	n41 (Channel Bandwidth: 60MHz)	398.107mW (26.00dBm)	199.067mW (22.99dBm)	188.365mW (22.75dBm)	176.198mW (22.46dBm)	88.920mW (19.49dBm)
	n41 (Channel Bandwidth: 80MHz)	397.192mW (25.99dBm)	199.526mW (23.00dBm)	189.671mW (22.78dBm)	177.011mW (22.48dBm)	88.920mW (19.49dBm)
	n41 (Channel Bandwidth: 90MHz)	398.107mW (26.00dBm)	199.067mW (22.99dBm)	189.671mW (22.78dBm)	177.011mW (22.48dBm)	88.920mW (19.49dBm)
	n41 (Channel Bandwidth: 100MHz)	398.107mW (26.00dBm)	199.067mW (22.99dBm)	190.108mW (22.79dBm)	177.419mW (22.49dBm)	89.125mW (19.50dBm)
	n66 (Channel Bandwidth: 5MHz)	563.638mW (27.51dBm)	280.543mW (24.48dBm)	271.644mW (24.34dBm)	252.930mW (24.03dBm)	126.765mW (21.03dBm)
	n66 (Channel Bandwidth: 10MHz)	562.341mW (27.50dBm)	279.898mW (24.47dBm)	271.644mW (24.34dBm)	247.172mW (23.93dBm)	126.183mW (21.01dBm)
	n66 (Channel Bandwidth: 15MHz)	561.048mW (27.49dBm)	283.792mW (24.53dBm)	271.019mW (24.33dBm)	253.513mW (24.04dBm)	126.765mW (21.03dBm)
	n66 (Channel Bandwidth: 20MHz)	567.545mW (27.54dBm)	283.139mW (24.52dBm)	269.774mW (24.31dBm)	249.459mW (23.97dBm)	127.057mW (21.04dBm)
	n66 (Channel Bandwidth: 40MHz)	567.545mW (27.54dBm)	283.792mW (24.53dBm)	271.019mW (24.33dBm)	253.513mW (24.04dBm)	127.057mW (21.04dBm)

Max. EIRP Power		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
	n77 (Channel Bandwidth: 10MHz)	422.669mW (26.26dBm)	209.894mW (23.22dBm)	199.986mW (23.01dBm)	189.671mW (22.78dBm)	95.060mW (19.78dBm)
	n77 (Channel Bandwidth: 15MHz)	418.794mW (26.22dBm)	213.304mW (23.29dBm)	204.174mW (23.10dBm)	190.985mW (22.81dBm)	95.499mW (19.80dBm)
	n77 (Channel Bandwidth: 20MHz)	418.794mW (26.22dBm)	213.796mW (23.30dBm)	199.986mW (23.01dBm)	186.638mW (22.71dBm)	95.719mW (19.81dBm)
	n77 (Channel Bandwidth: 40MHz)	417.830mW (26.21dBm)	212.324mW (23.27dBm)	200.447mW (23.02dBm)	190.546mW (22.80dBm)	94.842mW (19.77dBm)
	n77 (Channel Bandwidth: 50MHz)	420.727mW (26.24dBm)	209.411mW (23.21dBm)	204.644mW (23.11dBm)	188.799mW (22.76dBm)	93.541mW (19.71dBm)
	n77 (Channel Bandwidth: 60MHz)	423.643mW (26.27dBm)	212.324mW (23.27dBm)	203.236mW (23.08dBm)	187.932mW (22.74dBm)	95.060mW (19.78dBm)
	n77 (Channel Bandwidth: 80MHz)	425.598mW (26.29dBm)	212.324mW (23.27dBm)	203.704mW (23.09dBm)	187.499mW (22.73dBm)	95.719mW (19.81dBm)
	n77 (Channel Bandwidth: 90MHz)	422.669mW (26.26dBm)	213.304mW (23.29dBm)	203.704mW (23.09dBm)	187.932mW (22.74dBm)	94.624mW (19.76dBm)
	n77 (Channel Bandwidth: 100MHz)	426.580mW (26.30dBm)	212.814mW (23.28dBm)	203.236mW (23.08dBm)	190.985mW (22.81dBm)	93.325mW (19.70dBm)
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
Max. ERP Power	n71 (Channel Bandwidth: 5MHz)	238.781mW (23.78dBm)	122.180mW (20.87dBm)	113.501mW (20.55dBm)	106.905mW (20.29dBm)	54.075mW (17.33dBm)
	n71 (Channel Bandwidth: 10MHz)	240.436mW (23.81dBm)	122.180mW (20.87dBm)	116.413mW (20.66dBm)	108.143mW (20.34dBm)	52.723mW (17.22dBm)
	n71 (Channel Bandwidth: 15MHz)	242.661mW (23.85dBm)	121.619mW (20.85dBm)	115.878mW (20.64dBm)	107.152mW (20.30dBm)	53.703mW (17.30dBm)
	n71 (Channel Bandwidth: 20MHz)	242.103mW (23.84dBm)	120.504mW (20.81dBm)	116.145mW (20.65dBm)	104.713mW (20.20dBm)	54.325mW (17.35dBm)
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM

Emission Designator		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
	n7 (Channel Bandwidth: 5MHz)	4M47G7D	4M46G7D	4M47D7W	4M47D7W	4M46D7W
	n7 (Channel Bandwidth: 10MHz)	9M28G7D	9M28G7D	9M28D7W	9M27D7W	9M27D7W
	n7 (Channel Bandwidth: 15MHz)	14M1G7D	14M1G7D	14M1D7W	14M1D7W	14M1D7W
	n7 (Channel Bandwidth: 20MHz)	18M9G7D	18M9G7D	18M9D7W	18M9D7W	18M9D7W
	n38 (Channel Bandwidth: 10MHz)	8M57G7D	8M56G7D	8M57D7W	8M56D7W	8M56D7W
	n38 (Channel Bandwidth: 15MHz)	13M5G7D	13M5G7D	13M5D7W	13M5D7W	13M5D7W
	n38 (Channel Bandwidth: 20MHz)	18M2G7D	18M2G7D	18M2D7W	18M2D7W	18M2D7W
	n41 (Channel Bandwidth: 10MHz)	8M62G7D	8M59G7D	8M58D7W	8M58D7W	8M56D7W
	n41 (Channel Bandwidth: 15MHz)	13M6G7D	13M6G7D	13M6D7W	13M6D7W	13M5D7W
	n41 (Channel Bandwidth: 20MHz)	18M3G7D	18M2G7D	18M2D7W	18M2D7W	18M2D7W
	n41 (Channel Bandwidth: 40MHz)	37M9G7D	37M8G7D	37M8D7W	37M8D7W	37M8D7W
	n41 (Channel Bandwidth: 50MHz)	47M4G7D	47M4G7D	47M4D7W	47M4D7W	47M4D7W
	n41 (Channel Bandwidth: 60MHz)	57M7G7D	57M7G7D	57M7D7W	57M7D7W	57M7D7W
	n41 (Channel Bandwidth: 80MHz)	77M4G7D	77M3G7D	77M3D7W	77M3D7W	77M3D7W
	n41 (Channel Bandwidth: 90MHz)	87M3G7D	87M3G7D	87M2D7W	87M3D7W	87M3D7W
	n41 (Channel Bandwidth: 100MHz)	97M3G7D	97M2G7D	97M2D7W	97M1D7W	97M2D7W
	n66 (Channel Bandwidth: 5MHz)	4M47G7D	4M46G7D	4M47D7W	4M47D7W	4M46D7W
	n66 (Channel Bandwidth: 10MHz)	9M29G7D	9M28G7D	9M28D7W	9M28D7W	9M27D7W
	n66 (Channel Bandwidth: 15MHz)	14M1G7D	14M1G7D	14M1D7W	14M1D7W	14M1D7W
	n66 (Channel Bandwidth: 20MHz)	18M9G7D	18M9G7D	18M9D7W	18M9D7W	18M9D7W
	n66 (Channel Bandwidth: 40MHz)	38M6G7D	38M6G7D	38M6D7W	38M6D7W	38M6D7W
	n71 (Channel Bandwidth: 5MHz)	4M47G7D	4M46G7D	4M47D7W	4M46D7W	4M47D7W
	n71 (Channel Bandwidth: 10MHz)	9M28G7D	9M27G7D	9M28D7W	9M27D7W	9M27D7W
	n71 (Channel Bandwidth: 15MHz)	14M1G7D	14M1G7D	14M1D7W	14M1D7W	14M1D7W
	n71 (Channel Bandwidth: 20MHz)	18M9G7D	18M9G7D	18M9D7W	18M9D7W	18M9D7W
	n77 (Channel Bandwidth: 10MHz)	8M72G7D	8M58G7D	8M59D7W	8M58D7W	8M59D7W
	n77 (Channel Bandwidth: 15MHz)	13M7G7D	13M6G7D	13M6D7W	13M6D7W	13M6D7W
	n77 (Channel Bandwidth: 20MHz)	18M4G7D	18M2G7D	18M2D7W	18M2D7W	18M2D7W
	n77 (Channel Bandwidth: 40MHz)	38M1G7D	37M9G7D	37M9D7W	37M9D7W	37M9D7W
	n77 (Channel Bandwidth: 50MHz)	47M7G7D	47M4G7D	47M4D7W	47M4D7W	47M4D7W
	n77 (Channel Bandwidth: 60MHz)	58M1G7D	57M7G7D	57M7D7W	57M7D7W	57M7D7W
	n77 (Channel Bandwidth: 80MHz)	77M8G7D	77M3G7D	77M3D7W	77M3D7W	77M3D7W
	n77 (Channel Bandwidth: 90MHz)	87M8G7D	87M2G7D	87M2D7W	87M2D7W	87M2D7W
	n77 (Channel Bandwidth: 100MHz)	97M7G7D	97M2G7D	97M2D7W	97M2D7W	97M1D7W
Antenna Type	Refer to note					
Antenna Connector	Refer to note					
Accessory Device	NA					
Cable Supplied	NA					

Note:

1. The antenna information is listed as below.

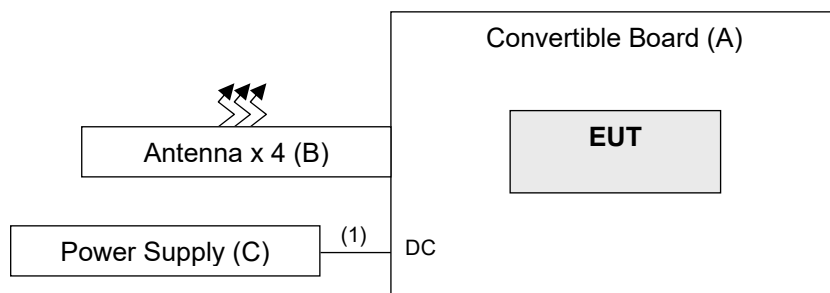
Operating frequency band	Antenna	Gain (dBi)	Connector Type
Band 2	5G/4G Terminal Mount Monopole Antenna	2.92	SMA
Band 5		1.01	
Band 7		2.20	
Band 12		-1.17	
Band 25		2.97	
Band 38		2.18	
Band 41		2.20	
Band 66		3.44	
Band 71		1.72	
Band 77		2.61	

* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2. The EUT supports the following ENDC configuration.

5GNR	FCC 5G FR1			ENDC
	Band	SCS	Bandwidth (MHz)	
	n5	15kHz	5/10/15/20	Band 2/66
	n41	30kHz	10/15/20/40/50/60/80/90/100	Band 26
	n66	15kHz	5/10/15/20/40	Band 5/12
	n71	15kHz	5/10/15/20	Band 2/66

3.2 Configuration of System under Test



3.2.1 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.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Convertible Board	NA	NA	NA	NA	Provided by client
B.	Antenna x 4	TAOGLAS	TG.55.8113	NA	NA	Provided by client
C.	DC Power supply	TECPEL	GPS-3030DD	GEO855739	NA	-

Note: All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC cable	1	1	N	0	-

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on X-plane. Following channel(s) was (were) selected for the final test as listed below.

n7

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	500500 to 513500	500500 (2502.5MHz), 507000 (2535.0MHz), 513500 (2567.5MHz)	5MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		501000 to 513000	501000 (2505.0MHz), 507000 (2535.0MHz), 513000 (2565.0MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 26 RB Offset 1 RB / 51 RB Offset 26 RB / 0 RB Offset 26 RB / 13 RB Offset 26 RB / 26 RB Offset 52 RB / 0 RB Offset
		501500 to 512500	501500 (2507.5MHz), 507000 (2535.0MHz), 512500 (2562.5MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 39 RB Offset 1 RB / 78 RB Offset 39 RB / 0 RB Offset 39 RB / 19 RB Offset 39 RB / 40 RB Offset 79 RB / 0 RB Offset
		502000 to 512000	502000 (2510.0MHz), 507000 (2535.0MHz), 512000 (2560.0MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 53 RB Offset 1 RB / 105 RB Offset 53 RB / 0 RB Offset 53 RB / 27 RB Offset 53 RB / 53 RB Offset 106 RB / 0 RB Offset
-	Modulation Characteristics	502000 to 512000	507000 (2535.0MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	106 RB / 0 RB Offset
-	Frequency Stability	500500 to 513500	500500 (2502.5MHz), 513500 (2567.5MHz)	5MHz	$\pi/2$ BPSK	25 RB / 0 RB Offset
		501000 to 513000	501000 (2505.0MHz), 513000 (2565.0MHz)	10MHz	$\pi/2$ BPSK	52 RB / 0 RB Offset
		501500 to 512500	501500 (2507.5MHz), 512500 (2562.5MHz)	15MHz	$\pi/2$ BPSK	79 RB / 0 RB Offset
		502000 to 512000	502000 (2510.0MHz), 512000 (2560.0MHz)	20MHz	$\pi/2$ BPSK	106 RB / 0 RB Offset
-	Emission Bandwidth	500500 to 513500	500500 (2502.5MHz), 507000 (2535.0MHz), 513500 (2567.5MHz)	5MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	25 RB / 0 RB Offset
		501000 to 513000	501000 (2505.0MHz), 507000 (2535.0MHz), 513000 (2565.0MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	52 RB / 0 RB Offset
		501500 to 512500	501500 (2507.5MHz), 507000 (2535.0MHz), 512500 (2562.5MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	79 RB / 0 RB Offset
		502000 to 512000	502000 (2510.0MHz), 507000 (2535.0MHz), 512000 (2560.0MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	106 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Emission Mask	500500 to 513500	500500 (2502.5MHz), 507000 (2535.0MHz), 513500 (2567.5MHz)	5MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		501000 to 513000	501000 (2505.0MHz), 507000 (2535.0MHz), 513000 (2565.0MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 51 RB Offset 52 RB / 0 RB Offset
		501500 to 512500	501500 (2507.5MHz), 507000 (2535.0MHz), 512500 (2562.5MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 78 RB Offset 79 RB / 0 RB Offset
		502000 to 512000	502000 (2510.0MHz), 507000 (2535.0MHz), 512000 (2560.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 105 RB Offset 106 RB / 0 RB Offset
-	Peak to Average Ratio	500500 to 513500	500500 (2502.5MHz), 507000 (2535.0MHz), 513500 (2567.5MHz)	5MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		501000 to 513000	501000 (2505.0MHz), 507000 (2535.0MHz), 513000 (2565.0MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		501500 to 512500	501500 (2507.5MHz), 507000 (2535.0MHz), 512500 (2562.5MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		502000 to 512000	502000 (2510.0MHz), 507000 (2535.0MHz), 512000 (2560.0MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
-	Conducted Emission	500500 to 513500	500500 (2502.5MHz), 507000 (2535.0MHz), 513500 (2567.5MHz)	5MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		501000 to 513000	501000 (2505.0MHz), 507000 (2535.0MHz), 513000 (2565.0MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		501500 to 512500	501500 (2507.5MHz), 507000 (2535.0MHz), 512500 (2562.5MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		502000 to 512000	502000 (2510.0MHz), 507000 (2535.0MHz), 512000 (2560.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	502000 to 512000	507000 (2535.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	500500 to 513500	500500 (2502.5MHz), 507000 (2535.0MHz), 513500 (2567.5MHz)	5MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		501000 to 513000	501000 (2505.0MHz), 507000 (2535.0MHz), 513000 (2565.0MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		501500 to 512500	501500 (2507.5MHz), 507000 (2535.0MHz), 512500 (2562.5MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		502000 to 512000	502000 (2510.0MHz), 507000 (2535.0MHz), 512000 (2560.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

Note: The conducted output power for $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM, measured value of $\pi/2$ BPSK is higher than QPSK, 16QAM, 64QAM and 256QAM mode. Therefore, only EIRP, Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM modes, the other test items were performed under $\pi/2$ BPSK mode only.

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EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	515000 to 523000	515000 (2575.0MHz), 519000 (2595.0MHz), 523000 (2615.0MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 23 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 12 RB Offset 24 RB / 0 RB Offset
		515500 to 522500	515500 (2577.5MHz), 519000 (2595.0MHz), 522500 (2612.5MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 19 RB Offset 1 RB / 37 RB Offset 19 RB / 0 RB Offset 19 RB / 9 RB Offset 19 RB / 20 RB Offset 38 RB / 0 RB Offset
		516000 to 522000	516000 (2580.0MHz), 519000 (2595.0MHz), 522000 (2610.0MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 25 RB Offset 1 RB / 50 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 51 RB / 0 RB Offset
-	Modulation Characteristics	516000 to 522000	519000 (2595.0MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	51 RB / 0 RB Offset
-	Frequency Stability	515000 to 523000	515000 (2575.0MHz), 523000 (2615.0MHz)	10MHz	$\pi/2$ BPSK	24 RB / 0 RB Offset
		515500 to 522500	515500 (2577.5MHz), 522500 (2612.5MHz)	15MHz	$\pi/2$ BPSK	38 RB / 0 RB Offset
		516000 to 522000	516000 (2580.0MHz), 522000 (2610.0MHz)	20MHz	$\pi/2$ BPSK	51 RB / 0 RB Offset
-	Emission Bandwidth	515000 to 523000	515000 (2575.0MHz), 519000 (2595.0MHz), 523000 (2615.0MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	24 RB / 0 RB Offset
		515500 to 522500	515500 (2577.5MHz), 519000 (2595.0MHz), 522500 (2612.5MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	38 RB / 0 RB Offset
		516000 to 522000	516000 (2580.0MHz), 519000 (2595.0MHz), 522000 (2610.0MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	51 RB / 0 RB Offset
-	Emission Mask	515000 to 523000	515000 (2575.0MHz), 519000 (2595.0MHz), 523000 (2615.0MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 23 RB Offset 24 RB / 0 RB Offset
		515500 to 522500	515500 (2577.5MHz), 519000 (2595.0MHz), 522500 (2612.5MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 37 RB Offset 38 RB / 0 RB Offset
		516000 to 522000	516000 (2580.0MHz), 519000 (2595.0MHz), 522000 (2610.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 50 RB Offset 51 RB / 0 RB Offset
-	Peak to Average Ratio	515000 to 523000	515000 (2575.0MHz), 519000 (2595.0MHz), 523000 (2615.0MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		515500 to 522500	515500 (2577.5MHz), 519000 (2595.0MHz), 522500 (2612.5MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		516000 to 522000	516000 (2580.0MHz), 519000 (2595.0MHz), 522000 (2610.0MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	515000 to 523000	515000 (2575.0MHz), 519000 (2595.0MHz), 523000 (2615.0MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		515500 to 522500	515500 (2577.5MHz), 519000 (2595.0MHz), 522500 (2612.5MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		516000 to 522000	516000 (2580.0MHz), 519000 (2595.0MHz), 522000 (2610.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	516000 to 522000	519000 (2595.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	515000 to 523000	515000 (2575.0MHz), 519000 (2595.0MHz), 523000 (2615.0MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		515500 to 522500	515500 (2577.5MHz), 519000 (2595.0MHz), 522500 (2612.5MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		516000 to 522000	516000 (2580.0MHz), 519000 (2595.0MHz), 522000 (2610.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

Note: The conducted output power for $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM, measured value of $\pi/2$ BPSK is higher than QPSK, 16QAM, 64QAM and 256QAM mode. Therefore, only EIRP, Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM modes, the other test items were performed under $\pi/2$ BPSK mode only.

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EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	500202 to 537000	500202 (2501.01MHz), 518598 (2592.99MHz), 537000 (2685.00MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 23 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 12 RB Offset 24 RB / 0 RB Offset
		500700 to 536496	500700 (2503.50MHz), 518598 (2592.99MHz), 536496 (2682.48MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 19 RB Offset 1 RB / 37 RB Offset 19 RB / 0 RB Offset 19 RB / 9 RB Offset 19 RB / 20 RB Offset 38 RB / 0 RB Offset
		501204 to 535998	501204 (2506.02MHz), 518598 (2592.99MHz), 535998 (2679.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 25 RB Offset 1 RB / 50 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 51 RB / 0 RB Offset
		503202 to 534000	503202 (2516.01MHz), 518598 (2592.99MHz), 534000 (2670.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 53 RB Offset 1 RB / 105 RB Offset 53 RB / 0 RB Offset 53 RB / 26 RB Offset 53 RB / 53 RB Offset 106 RB / 0 RB Offset
		504204 to 532998	504204 (2521.02MHz), 518598 (2592.99MHz), 532998 (2664.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 66 RB Offset 1 RB / 132 RB Offset 66 RB / 0 RB Offset 66 RB / 33 RB Offset 66 RB / 66 RB Offset 133 RB / 0 RB Offset
		505200 to 531996	505200 (2526.00MHz), 518598 (2592.99MHz), 531996 (2659.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 81 RB Offset 1 RB / 161 RB Offset 81 RB / 0 RB Offset 81 RB / 40 RB Offset 81 RB / 81 RB Offset 162 RB / 0 RB Offset
		507204 to 529998	507204 (2536.02MHz), 518598 (2592.99MHz), 529998 (2649.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 108 RB Offset 1 RB / 216 RB Offset 108 RB / 0 RB Offset 108 RB / 54 RB Offset 108 RB / 108 RB Offset 217 RB / 0 RB Offset
		508200 to 528996	508200 (2541.00MHz), 518598 (2592.99MHz), 528996 (2644.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 122 RB Offset 1 RB / 244 RB Offset 122 RB / 0 RB Offset 122 RB / 61 RB Offset 122 RB / 122 RB Offset 245 RB / 0 RB Offset
		509202 to 528000	509202 (2546.01MHz), 518598 (2592.99MHz), 528000 (2640.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 136 RB Offset 1 RB / 272 RB Offset 136 RB / 0 RB Offset 136 RB / 68 RB Offset 136 RB / 136 RB Offset 273 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Modulation Characteristics	509202 to 528000	518598 (2592.99MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	273 RB / 0 RB Offset
-	Frequency Stability	500202 to 537000	500202 (2501.01MHz), 537000 (2685.00MHz)	10MHz	$\pi/2$ BPSK	24 RB / 0 RB Offset
		500700 to 536496	500700 (2503.50MHz), 536496 (2682.48MHz)	15MHz	$\pi/2$ BPSK	38 RB / 0 RB Offset
		501204 to 535998	501204 (2506.02MHz), 535998 (2679.99MHz)	20MHz	$\pi/2$ BPSK	51 RB / 0 RB Offset
		503202 to 534000	503202 (2516.01MHz), 534000 (2670.00MHz)	40MHz	$\pi/2$ BPSK	106 RB / 0 RB Offset
		504204 to 532998	504204 (2521.02MHz), 532998 (2664.99MHz)	50MHz	$\pi/2$ BPSK	133 RB / 0 RB Offset
		505200 to 531996	505200 (2526.00MHz), 531996 (2659.98MHz)	60MHz	$\pi/2$ BPSK	162 RB / 0 RB Offset
		507204 to 529998	507204 (2536.02MHz), 529998 (2649.99MHz)	80MHz	$\pi/2$ BPSK	217 RB / 0 RB Offset
		508200 to 528996	508200 (2541.00MHz), 528996 (2644.98MHz)	90MHz	$\pi/2$ BPSK	245 RB / 0 RB Offset
		509202 to 528000	509202 (2546.01MHz), 528000 (2640.00MHz)	100MHz	$\pi/2$ BPSK	273 RB / 0 RB Offset
-	Emission Bandwidth	500202 to 537000	500202 (2501.01MHz), 518598 (2592.99MHz), 537000 (2685.00MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	24 RB / 0 RB Offset
		500700 to 536496	500700 (2503.50MHz), 518598 (2592.99MHz), 536496 (2682.48MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	38 RB / 0 RB Offset
		501204 to 535998	501204 (2506.02MHz), 518598 (2592.99MHz), 535998 (2679.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	51 RB / 0 RB Offset
		503202 to 534000	503202 (2516.01MHz), 518598 (2592.99MHz), 534000 (2670.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	106 RB / 0 RB Offset
		504204 to 532998	504204 (2521.02MHz), 518598 (2592.99MHz), 532998 (2664.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	133 RB / 0 RB Offset
		505200 to 531996	505200 (2526.00MHz), 518598 (2592.99MHz), 531996 (2659.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	162 RB / 0 RB Offset
		507204 to 529998	507204 (2536.02MHz), 518598 (2592.99MHz), 529998 (2649.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	217 RB / 0 RB Offset
		508200 to 528996	508200 (2541.00MHz), 518598 (2592.99MHz), 528996 (2644.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	245 RB / 0 RB Offset
		509202 to 528000	509202 (2546.01MHz), 518598 (2592.99MHz), 528000 (2640.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	273 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Emission Mask	500202 to 537000	500202 (2501.01MHz), 518598 (2592.99MHz), 537000 (2685.00MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 23 RB Offset 24 RB / 0 RB Offset
		500700 to 536496	500700 (2503.50MHz), 518598 (2592.99MHz), 536496 (2682.48MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 37 RB Offset 38 RB / 0 RB Offset
		501204 to 535998	501204 (2506.02MHz), 518598 (2592.99MHz), 535998 (2679.99MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 50 RB Offset 51 RB / 0 RB Offset
		503202 to 534000	503202 (2516.01MHz), 518598 (2592.99MHz), 534000 (2670.00MHz)	40MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 105 RB Offset 106 RB / 0 RB Offset
		504204 to 532998	504204 (2521.02MHz), 518598 (2592.99MHz), 532998 (2664.99MHz)	50MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 132 RB Offset 133 RB / 0 RB Offset
		505200 to 531996	505200 (2526.00MHz), 518598 (2592.99MHz), 531996 (2659.98MHz)	60MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 161 RB Offset 162 RB / 0 RB Offset
		507204 to 529998	507204 (2536.02MHz), 518598 (2592.99MHz), 529998 (2649.99MHz)	80MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 216 RB Offset 217 RB / 0 RB Offset
		508200 to 528996	508200 (2541.00MHz), 518598 (2592.99MHz), 528996 (2644.98MHz)	90MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 244 RB Offset 245 RB / 0 RB Offset
		509202 to 528000	509202 (2546.01MHz), 518598 (2592.99MHz), 528000 (2640.00MHz)	100MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 272 RB Offset 273 RB / 0 RB Offset
-	Peak to Average Ratio	500202 to 537000	500202 (2501.01MHz), 518598 (2592.99MHz), 537000 (2685.00MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		500700 to 536496	500700 (2503.50MHz), 518598 (2592.99MHz), 536496 (2682.48MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		501204 to 535998	501204 (2506.02MHz), 518598 (2592.99MHz), 535998 (2679.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		503202 to 534000	503202 (2516.01MHz), 518598 (2592.99MHz), 534000 (2670.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		504204 to 532998	504204 (2521.02MHz), 518598 (2592.99MHz), 532998 (2664.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		505200 to 531996	505200 (2526.00MHz), 518598 (2592.99MHz), 531996 (2659.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		507204 to 529998	507204 (2536.02MHz), 518598 (2592.99MHz), 529998 (2649.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		508200 to 528996	508200 (2541.00MHz), 518598 (2592.99MHz), 528996 (2644.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		509202 to 528000	509202 (2546.01MHz), 518598 (2592.99MHz), 528000 (2640.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	500202 to 537000	500202 (2501.01MHz), 518598 (2592.99MHz), 537000 (2685.00MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		500700 to 536496	500700 (2503.50MHz), 518598 (2592.99MHz), 536496 (2682.48MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		501204 to 535998	501204 (2506.02MHz), 518598 (2592.99MHz), 535998 (2679.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		503202 to 534000	503202 (2516.01MHz), 518598 (2592.99MHz), 534000 (2670.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		504204 to 532998	504204 (2521.02MHz), 518598 (2592.99MHz), 532998 (2664.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		505200 to 531996	505200 (2526.00MHz), 518598 (2592.99MHz), 531996 (2659.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		507204 to 529998	507204 (2536.02MHz), 518598 (2592.99MHz), 529998 (2649.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		508200 to 528996	508200 (2541.00MHz), 518598 (2592.99MHz), 528996 (2644.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		509202 to 528000	509202 (2546.01MHz), 518598 (2592.99MHz), 528000 (2640.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	509202 to 528000	518598 (2592.99MHz)	100MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Above 1GHz	500202 to 537000	500202 (2501.01MHz), 518598 (2592.99MHz), 537000 (2685.00MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		500700 to 536496	500700 (2503.50MHz), 518598 (2592.99MHz), 536496 (2682.48MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		501204 to 535998	501204 (2506.02MHz), 518598 (2592.99MHz), 535998 (2679.99MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		503202 to 534000	503202 (2516.01MHz), 518598 (2592.99MHz), 534000 (2670.00MHz)	40MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		504204 to 532998	504204 (2521.02MHz), 518598 (2592.99MHz), 532998 (2664.99MHz)	50MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		505200 to 531996	505200 (2526.00MHz), 518598 (2592.99MHz), 531996 (2659.98MHz)	60MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		507204 to 529998	507204 (2536.02MHz), 518598 (2592.99MHz), 529998 (2649.99MHz)	80MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		508200 to 528996	508200 (2541.00MHz), 518598 (2592.99MHz), 528996 (2644.98MHz)	90MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		509202 to 528000	509202 (2546.01MHz), 518598 (2592.99MHz), 528000 (2640.00MHz)	100MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

Note: The conducted output power for $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM, measured value of $\pi/2$ BPSK is higher than QPSK, 16QAM, 64QAM and 256QAM mode. Therefore, only EIRP, Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM modes, the other test items were performed under $\pi/2$ BPSK mode only.

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EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	342500 to 355500	342500 (1712.5MHz), 349000 (1745.0MHz), 355500 (1777.5MHz)	5MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		343000 to 355000	343000 (1715.0MHz), 349000 (1745.0MHz), 355000 (1775.0MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 26 RB Offset 1 RB / 51 RB Offset 26 RB / 0 RB Offset 26 RB / 13 RB Offset 26 RB / 26 RB Offset 52 RB / 0 RB Offset
		343500 to 354500	343500 (1717.5MHz), 349000 (1745.0MHz), 354500 (1772.5MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 39 RB Offset 1 RB / 78 RB Offset 39 RB / 0 RB Offset 39 RB / 19 RB Offset 39 RB / 40 RB Offset 79 RB / 0 RB Offset
		344000 to 354000	344000 (1720.0MHz), 349000 (1745.0MHz), 354000 (1770.0MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 53 RB Offset 1 RB / 105 RB Offset 53 RB / 0 RB Offset 53 RB / 27 RB Offset 53 RB / 53 RB Offset 106 RB / 0 RB Offset
		346000 to 352000	346000 (1730.0MHz), 349000 (1745.0MHz), 352000 (1760.0MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 108 RB Offset 1 RB / 215 RB Offset 108 RB / 0 RB Offset 108 RB / 53 RB Offset 108 RB / 107 RB Offset 216 RB / 0 RB Offset
-	Modulation Characteristics	346000 to 352000	349000 (1745.0MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	216 RB / 0 RB Offset
-	Frequency Stability	342500 to 355500	342500 (1712.5MHz), 355500 (1777.5MHz)	5MHz	$\pi/2$ BPSK	25 RB / 0 RB Offset
		343000 to 355000	343000 (1715.0MHz), 355000 (1775.0MHz)	10MHz	$\pi/2$ BPSK	52 RB / 0 RB Offset
		343500 to 354500	343500 (1717.5MHz), 354500 (1772.5MHz)	15MHz	$\pi/2$ BPSK	79 RB / 0 RB Offset
		344000 to 354000	344000 (1720.0MHz), 354000 (1770.0MHz)	20MHz	$\pi/2$ BPSK	106 RB / 0 RB Offset
		346000 to 352000	346000 (1730.0MHz), 352000 (1760.0MHz)	40MHz	$\pi/2$ BPSK	216 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Emission Bandwidth	342500 to 355500	342500 (1712.5MHz), 349000 (1745.0MHz), 355500 (1777.5MHz)	5MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	25 RB / 0 RB Offset
		343000 to 355000	343000 (1715.0MHz), 349000 (1745.0MHz), 355000 (1775.0MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	52 RB / 0 RB Offset
		343500 to 354500	343500 (1717.5MHz), 349000 (1745.0MHz), 354500 (1772.5MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	79 RB / 0 RB Offset
		344000 to 354000	344000 (1720.0MHz), 349000 (1745.0MHz), 354000 (1770.0MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	106 RB / 0 RB Offset
		346000 to 352000	346000 (1730.0MHz), 349000 (1745.0MHz), 352000 (1760.0MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	216 RB / 0 RB Offset
-	Band Edge	342500 to 355500	342500 (1712.5MHz), 355500 (1777.5MHz)	5MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		343000 to 355000	343000 (1715.0MHz), 355000 (1775.0MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 51 RB Offset 52 RB / 0 RB Offset
		343500 to 354500	343500 (1717.5MHz), 354500 (1772.5MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 78 RB Offset 79 RB / 0 RB Offset
		344000 to 354000	344000 (1720.0MHz), 354000 (1770.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 105 RB Offset 106 RB / 0 RB Offset
		346000 to 352000	346000 (1730.0MHz), 352000 (1760.0MHz)	40MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 215 RB Offset 216 RB / 0 RB Offset
-	Peak to Average Ratio	342500 to 355500	342500 (1712.5MHz), 349000 (1745.0MHz), 355500 (1777.5MHz)	5MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		343000 to 355000	343000 (1715.0MHz), 349000 (1745.0MHz), 355000 (1775.0MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		343500 to 354500	343500 (1717.5MHz), 349000 (1745.0MHz), 354500 (1772.5MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		344000 to 354000	344000 (1720.0MHz), 349000 (1745.0MHz), 354000 (1770.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		346000 to 352000	346000 (1730.0MHz), 349000 (1745.0MHz), 352000 (1760.0MHz)	40MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	342500 to 355500	342500 (1712.5MHz), 349000 (1745.0MHz), 355500 (1777.5MHz)	5MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		343000 to 355000	343000 (1715.0MHz), 349000 (1745.0MHz), 355000 (1775.0MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		343500 to 354500	343500 (1717.5MHz), 349000 (1745.0MHz), 354500 (1772.5MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		344000 to 354000	344000 (1720.0MHz), 349000 (1745.0MHz), 354000 (1770.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		346000 to 352000	346000 (1730.0MHz), 349000 (1745.0MHz), 352000 (1760.0MHz)	40MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	346000 to 352000	349000 (1745.0MHz)	40MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	342500 to 355500	342500 (1712.5MHz), 349000 (1745.0MHz), 355500 (1777.5MHz)	5MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		343000 to 355000	343000 (1715.0MHz), 349000 (1745.0MHz), 355000 (1775.0MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		343500 to 354500	343500 (1717.5MHz), 349000 (1745.0MHz), 354500 (1772.5MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		344000 to 354000	344000 (1720.0MHz), 349000 (1745.0MHz), 354000 (1770.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		346000 to 352000	346000 (1730.0MHz), 349000 (1745.0MHz), 352000 (1760.0MHz)	40MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

Note: The conducted output power for $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM, measured value of $\pi/2$ BPSK is higher than QPSK, 16QAM, 64QAM and 256QAM mode. Therefore, only EIRP, Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM modes, the other test items were performed under $\pi/2$ BPSK mode only.

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EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	133100 to 139100	133100 (665.5MHz), 136100 (680.5MHz), 139100 (695.5MHz)	5MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		133600 to 138600	133600 (668.0MHz), 136100 (680.5MHz), 138600 (693.0MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 26 RB Offset 1 RB / 51 RB Offset 26 RB / 0 RB Offset 26 RB / 13 RB Offset 26 RB / 26 RB Offset 52 RB / 0 RB Offset
		134100 to 138100	134100 (670.5MHz), 136100 (680.5MHz), 138100 (690.5MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 39 RB Offset 1 RB / 78 RB Offset 39 RB / 0 RB Offset 39 RB / 19 RB Offset 39 RB / 40 RB Offset 79 RB / 0 RB Offset
		134600 to 137600	134600 (673.0MHz), 136100 (680.5MHz), 137600 (688.0MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 53 RB Offset 1 RB / 105 RB Offset 53 RB / 0 RB Offset 53 RB / 27 RB Offset 53 RB / 53 RB Offset 106 RB / 0 RB Offset
-	Modulation Characteristics	134600 to 137600	136100 (680.5MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	106 RB / 0 RB Offset
-	Frequency Stability	133100 to 139100	133100 (665.5MHz), 139100 (695.5MHz)	5MHz	$\pi/2$ BPSK	25 RB / 0 RB Offset
		133600 to 138600	133600 (668.0MHz), 138600 (693.0MHz)	10MHz	$\pi/2$ BPSK	52 RB / 0 RB Offset
		134100 to 138100	134100 (670.5MHz), 138100 (690.5MHz)	15MHz	$\pi/2$ BPSK	79 RB / 0 RB Offset
		134600 to 137600	134600 (673.0MHz), 137600 (688.0MHz)	20MHz	$\pi/2$ BPSK	106 RB / 0 RB Offset
-	Emission Bandwidth	133100 to 139100	133100 (665.5MHz), 136100 (680.5MHz), 139100 (695.5MHz)	5MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	25 RB / 0 RB Offset
		133600 to 138600	133600 (668.0MHz), 136100 (680.5MHz), 138600 (693.0MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	52 RB / 0 RB Offset
		134100 to 138100	134100 (670.5MHz), 136100 (680.5MHz), 138100 (690.5MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	79 RB / 0 RB Offset
		134600 to 137600	134600 (673.0MHz), 136100 (680.5MHz), 137600 (688.0MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	106 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Band Edge	133100 to 139100	133100 (665.5MHz), 139100 (695.5MHz)	5MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		133600 to 138600	133600 (668.0MHz), 138600 (693.0MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 51 RB Offset 52 RB / 0 RB Offset
		134100 to 138100	134100 (670.5MHz), 138100 (690.5MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 78 RB Offset 79 RB / 0 RB Offset
		134600 to 137600	134600 (673.0MHz), 137600 (688.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 105 RB Offset 106 RB / 0 RB Offset
-	Peak to Average Ratio	133100 to 139100	133100 (665.5MHz), 136100 (680.5MHz), 139100 (695.5MHz)	5MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		133600 to 138600	133600 (668.0MHz), 136100 (680.5MHz), 138600 (693.0MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		134100 to 138100	134100 (670.5MHz), 136100 (680.5MHz), 138100 (690.5MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		134600 to 137600	134600 (673.0MHz), 136100 (680.5MHz), 137600 (688.0MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
-	Conducted Emission	133100 to 139100	133100 (665.5MHz), 136100 (680.5MHz), 139100 (695.5MHz)	5MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		133600 to 138600	133600 (668.0MHz), 136100 (680.5MHz), 138600 (693.0MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		134100 to 138100	134100 (670.5MHz), 136100 (680.5MHz), 138100 (690.5MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		134600 to 137600	134600 (673.0MHz), 136100 (680.5MHz), 137600 (688.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	134600 to 137600	136100 (680.5MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	133100 to 139100	133100 (665.5MHz), 136100 (680.5MHz), 139100 (695.5MHz)	5MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		133600 to 138600	133600 (668.0MHz), 136100 (680.5MHz), 138600 (693.0MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		134100 to 138100	134100 (670.5MHz), 136100 (680.5MHz), 138100 (690.5MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		134600 to 137600	134600 (673.0MHz), 136100 (680.5MHz), 137600 (688.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

Note: The conducted output power for $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM, measured value of $\pi/2$ BPSK is higher than QPSK, 16QAM, 64QAM and 256QAM mode. Therefore, only ERP, Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM modes, the other test items were performed under $\pi/2$ BPSK mode only.

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EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	647000 to 665000	647000 (3705.00MHz), 656000 (3840.00MHz), 665000 (3975.00MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 23 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 12 RB Offset 24 RB / 0 RB Offset
		647168 to 664832	647168 (3707.52MHz), 656000 (3840.00MHz), 664832 (3972.48MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 19 RB Offset 1 RB / 37 RB Offset 19 RB / 0 RB Offset 19 RB / 9 RB Offset 19 RB / 20 RB Offset 38 RB / 0 RB Offset
		647334 to 664666	647334 (3710.01MHz), 656000 (3840.00MHz), 664666 (3969.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 25 RB Offset 1 RB / 50 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 51 RB / 0 RB Offset
		648000 to 664000	648000 (3720.00MHz), 656000 (3840.00MHz), 664000 (3960.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 53 RB Offset 1 RB / 105 RB Offset 53 RB / 0 RB Offset 53 RB / 26 RB Offset 53 RB / 53 RB Offset 106 RB / 0 RB Offset
		648334 to 663666	648334 (3725.01MHz), 656000 (3840.00MHz), 663666 (3954.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 66 RB Offset 1 RB / 132 RB Offset 66 RB / 0 RB Offset 66 RB / 33 RB Offset 66 RB / 66 RB Offset 133 RB / 0 RB Offset
		648668 to 663332	648668 (3730.02MHz), 656000 (3840.00MHz), 663332 (3949.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 81 RB Offset 1 RB / 161 RB Offset 81 RB / 0 RB Offset 81 RB / 40 RB Offset 81 RB / 81 RB Offset 162 RB / 0 RB Offset
		649334 to 662666	649334 (3740.01MHz), 656000 (3840.00MHz), 662666 (3939.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 108 RB Offset 1 RB / 216 RB Offset 108 RB / 0 RB Offset 108 RB / 54 RB Offset 108 RB / 108 RB Offset 217 RB / 0 RB Offset
		649668 to 662332	649668 (3745.02MHz), 656000 (3840.00MHz), 662332 (3934.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 122 RB Offset 1 RB / 244 RB Offset 122 RB / 0 RB Offset 122 RB / 61 RB Offset 122 RB / 122 RB Offset 245 RB / 0 RB Offset
		650000 to 662000	650000 (3750.00MHz), 656000 (3840.00MHz), 662000 (3930.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 136 RB Offset 1 RB / 272 RB Offset 136 RB / 0 RB Offset 136 RB / 68 RB Offset 136 RB / 136 RB Offset 273 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Modulation Characteristics	650000 to 662000	656000 (3840.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	273 RB / 0 RB Offset
-	Frequency Stability	647000 to 665000	647000 (3705.00MHz), 665000 (3975.00MHz)	10MHz	$\pi/2$ BPSK	24 RB / 0 RB Offset
		647168 to 664832	647168 (3707.52MHz), 664832 (3972.48MHz)	15MHz	$\pi/2$ BPSK	38 RB / 0 RB Offset
		647334 to 664666	647334 (3710.01MHz), 664666 (3969.99MHz)	20MHz	$\pi/2$ BPSK	51 RB / 0 RB Offset
		648000 to 664000	648000 (3720.00MHz), 664000 (3960.00MHz)	40MHz	$\pi/2$ BPSK	106 RB / 0 RB Offset
		648334 to 663666	648334 (3725.01MHz), 663666 (3954.99MHz)	50MHz	$\pi/2$ BPSK	133 RB / 0 RB Offset
		648668 to 663332	648668 (3730.02MHz), 663332 (3949.98MHz)	60MHz	$\pi/2$ BPSK	162 RB / 0 RB Offset
		649334 to 662666	649334 (3740.01MHz), 662666 (3939.99MHz)	80MHz	$\pi/2$ BPSK	217 RB / 0 RB Offset
		649668 to 662332	649668 (3745.02MHz), 662332 (3934.98MHz)	90MHz	$\pi/2$ BPSK	245 RB / 0 RB Offset
		650000 to 662000	650000 (3750.00MHz), 662000 (3930.00MHz)	100MHz	$\pi/2$ BPSK	273 RB / 0 RB Offset
-	Emission Bandwidth	647000 to 665000	647000 (3705.00MHz), 656000 (3840.00MHz), 665000 (3975.00MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	24 RB / 0 RB Offset
		647168 to 664832	647168 (3707.52MHz), 656000 (3840.00MHz), 664832 (3972.48MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	38 RB / 0 RB Offset
		647334 to 664666	647334 (3710.01MHz), 656000 (3840.00MHz), 664666 (3969.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	51 RB / 0 RB Offset
		648000 to 664000	648000 (3720.00MHz), 656000 (3840.00MHz), 664000 (3960.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	106 RB / 0 RB Offset
		648334 to 663666	648334 (3725.01MHz), 656000 (3840.00MHz), 663666 (3954.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	133 RB / 0 RB Offset
		648668 to 663332	648668 (3730.02MHz), 656000 (3840.00MHz), 663332 (3949.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	162 RB / 0 RB Offset
		649334 to 662666	649334 (3740.01MHz), 656000 (3840.00MHz), 662666 (3939.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	217 RB / 0 RB Offset
		649668 to 662332	649668 (3745.02MHz), 656000 (3840.00MHz), 662332 (3934.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	245 RB / 0 RB Offset
		650000 to 662000	650000 (3750.00MHz), 656000 (3840.00MHz), 662000 (3930.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	273 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Band Edge	647000 to 665000	647000 (3705.00MHz), 665000 (3975.00MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 23 RB Offset 24 RB / 0 RB Offset
		647168 to 664832	647168 (3707.52MHz), 664832 (3972.48MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 37 RB Offset 38 RB / 0 RB Offset
		647334 to 664666	647334 (3710.01MHz), 664666 (3969.99MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 50 RB Offset 51 RB / 0 RB Offset
		648000 to 664000	648000 (3720.00MHz), 664000 (3960.00MHz)	40MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 105 RB Offset 106 RB / 0 RB Offset
		648334 to 663666	648334 (3725.01MHz), 663666 (3954.99MHz)	50MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 132 RB Offset 133 RB / 0 RB Offset
		648668 to 663332	648668 (3730.02MHz), 663332 (3949.98MHz)	60MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 161 RB Offset 162 RB / 0 RB Offset
		649334 to 662666	649334 (3740.01MHz), 662666 (3939.99MHz)	80MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 216 RB Offset 217 RB / 0 RB Offset
		649668 to 662332	649668 (3745.02MHz), 662332 (3934.98MHz)	90MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 244 RB Offset 245 RB / 0 RB Offset
		650000 to 662000	650000 (3750.00MHz), 662000 (3930.00MHz)	100MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 272 RB Offset 273 RB / 0 RB Offset
-	Peak to Average Ratio	647000 to 665000	647000 (3705.00MHz), 656000 (3840.00MHz), 665000 (3975.00MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		647168 to 664832	647168 (3707.52MHz), 656000 (3840.00MHz), 664832 (3972.48MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		647334 to 664666	647334 (3710.01MHz), 656000 (3840.00MHz), 664666 (3969.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		648000 to 664000	648000 (3720.00MHz), 656000 (3840.00MHz), 664000 (3960.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		648334 to 663666	648334 (3725.01MHz), 656000 (3840.00MHz), 663666 (3954.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		648668 to 663332	648668 (3730.02MHz), 656000 (3840.00MHz), 663332 (3949.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		649334 to 662666	649334 (3740.01MHz), 656000 (3840.00MHz), 662666 (3939.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		649668 to 662332	649668 (3745.02MHz), 656000 (3840.00MHz), 662332 (3934.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		650000 to 662000	650000 (3750.00MHz), 656000 (3840.00MHz), 662000 (3930.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	647000 to 665000	647000 (3705.00MHz), 656000 (3840.00MHz), 665000 (3975.00MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		647168 to 664832	647168 (3707.52MHz), 656000 (3840.00MHz), 664832 (3972.48MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		647334 to 664666	647334 (3710.01MHz), 656000 (3840.00MHz), 664666 (3969.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		648000 to 664000	648000 (3720.00MHz), 656000 (3840.00MHz), 664000 (3960.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		648334 to 663666	648334 (3725.01MHz), 656000 (3840.00MHz), 663666 (3954.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		648668 to 663332	648668 (3730.02MHz), 656000 (3840.00MHz), 663332 (3949.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		649334 to 662666	649334 (3740.01MHz), 656000 (3840.00MHz), 662666 (3939.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		649668 to 662332	649668 (3745.02MHz), 656000 (3840.00MHz), 662332 (3934.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		650000 to 662000	650000 (3750.00MHz), 656000 (3840.00MHz), 662000 (3930.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	648000 to 664000	656000 (3840.00MHz)	40MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Above 1GHz	647000 to 665000	647000 (3705.00MHz), 656000 (3840.00MHz), 665000 (3975.00MHz)	10MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		647168 to 664832	647168 (3707.52MHz), 656000 (3840.00MHz), 664832 (3972.48MHz)	15MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		647334 to 664666	647334 (3710.01MHz), 656000 (3840.00MHz), 664666 (3969.99MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		648000 to 664000	648000 (3720.00MHz), 656000 (3840.00MHz), 664000 (3960.00MHz)	40MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		648334 to 663666	648334 (3725.01MHz), 656000 (3840.00MHz), 663666 (3954.99MHz)	50MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		648668 to 663332	648668 (3730.02MHz), 656000 (3840.00MHz), 663332 (3949.98MHz)	60MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		649334 to 662666	649334 (3740.01MHz), 656000 (3840.00MHz), 662666 (3939.99MHz)	80MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		649668 to 662332	649668 (3745.02MHz), 656000 (3840.00MHz), 662332 (3934.98MHz)	90MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
		650000 to 662000	650000 (3750.00MHz), 656000 (3840.00MHz), 662000 (3930.00MHz)	100MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

Note: The conducted output power for $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM, measured value of $\pi/2$ BPSK is higher than QPSK, 16QAM, 64QAM and 256QAM mode. Therefore, only EIRP, Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM modes, the other test items were performed under $\pi/2$ BPSK mode only.

Test Condition:

Test Item	Environmental Conditions	Input Power (System)	Tested By
EIRP / ERP	25deg. C, 70%RH	4.2Vdc	James Yang
Modulation characteristics	25deg. C, 70%RH	4.2Vdc	James Yang
Frequency Stability	25deg. C, 70%RH	4.2Vdc	James Yang
Occupied Bandwidth	25deg. C, 70%RH	4.2Vdc	James Yang
Band Edge	25deg. C, 70%RH	4.2Vdc	James Yang
Peak To Average Ratio	25deg. C, 70%RH	4.2Vdc	James Yang
Conducted Emission	25deg. C, 70%RH	4.2Vdc	James Yang
Radiated Emission	22deg. C, 66%RH	120Vac, 60Hz	Jones Chang Han Wu

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and References:

Test Standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

For n7, n38, n41:

Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

For n66:

Mobile / Portable station are limited to 1 watts e.i.r.p.

For n71:

Control and mobile stations in the 698-746 MHz, 746-757 MHz, 787-788 MHz and 805-806 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, 746-757 MHz, 787-788 MHz and 805-806 MHz band are limited to 3 watts ERP.

For n77:

Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

4.1.2 Test Procedures

Conducted Power Measurement:

1. Connect the DUT transmitter output to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
2. Set span to at least 1.5 times the OBW.
3. Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
4. Set VBW $\geq 3 \times$ RBW.
5. Set number of points in sweep $\geq 2 \times$ span / RBW.
6. Sweep time = auto-couple.
7. Detector = RMS (power averaging).
8. If the EUT can be configured to transmit continuously (i.e., burst duty cycle $\geq 98\%$), then set the trigger to free run.
9. If the EUT cannot be configured to transmit continuously (i.e., burst duty cycle $< 98\%$), then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Ensure that the sweep time is less than or equal to the transmission burst duration.
10. Trace average at least 100 traces in power averaging (i.e., RMS) mode.
11. Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with the band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\text{EIRP} = P_{\text{Meas}} + G_T$$

$$\text{ERP} = P_{\text{Meas}} + G_T - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

4.1.3 Test Setup

Conducted Power Measurement:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.4 Test Results

Conducted Output Power (dBm)

NR Band 7 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		502000	507000	512000
		Frequency (MHz)		2510	2535	2560
20M	pi/2 BPSK	1	0	24.00	24.09	23.91
		1	53	24.05	23.99	23.98
		1	105	23.51	23.50	23.61
		53	0	23.96	23.89	23.94
		53	27	23.98	23.99	23.84
		53	53	23.70	23.74	23.74
		106	0	23.85	23.78	23.89
	QPSK	1	0	20.93	21.07	21.06
		1	53	20.90	21.00	20.96
		1	105	20.63	20.68	20.57
		53	0	20.98	20.94	20.98
		53	27	20.90	20.81	20.90
		53	53	20.71	20.72	20.75
		106	0	20.74	20.71	20.85
	16QAM	1	0	20.90	21.06	20.97
		1	53	20.92	20.96	20.97
		1	105	20.65	20.64	20.60
		53	0	20.99	20.92	20.91
		53	27	20.97	20.84	20.82
		53	53	20.70	20.75	20.82
		106	0	20.76	20.88	20.71
	64QAM	1	0	20.31	20.49	20.49
		1	53	20.49	20.45	20.40
		1	105	20.09	20.00	19.95
		53	0	20.37	20.26	20.39
		53	27	20.24	20.20	20.20
		53	53	20.13	20.14	20.17
		106	0	20.18	20.24	20.26
	256QAM	1	0	17.50	17.30	17.44
		1	53	17.39	17.41	17.49
		1	105	16.95	17.06	17.07
		53	0	17.37	17.27	17.35
		53	27	17.28	17.24	17.21
		53	53	17.14	17.14	17.15
		106	0	17.30	17.28	17.10

NR Band 7 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		501500	507000	512500
		Frequency (MHz)		2507.5	2535	2562.5
15M	pi/2 BPSK	1	0	23.90	23.94	23.90
		1	39	23.99	24.04	23.92
		1	78	23.70	23.52	23.67
		39	0	23.86	23.92	23.99
		39	19	23.96	23.81	23.83
		39	40	23.77	23.83	23.70
		79	0	23.89	23.72	23.89
	QPSK	1	0	21.06	21.03	20.93
		1	39	20.92	20.99	20.93
		1	78	20.68	20.68	20.55
		39	0	20.94	21.00	20.92
		39	19	20.87	20.86	20.97
		39	40	20.82	20.78	20.79
		79	0	20.70	20.70	20.77
	16QAM	1	0	20.90	21.00	21.00
		1	39	20.93	21.03	21.08
		1	78	20.57	20.59	20.66
		39	0	20.82	20.85	20.96
		39	19	20.93	20.92	20.97
		39	40	20.70	20.86	20.70
		79	0	20.71	20.78	20.90
	64QAM	1	0	20.45	20.34	20.48
		1	39	20.31	20.35	20.47
		1	78	20.03	19.90	19.99
		39	0	20.34	20.25	20.20
		39	19	20.35	20.22	20.21
		39	40	20.12	20.13	20.27
		79	0	20.18	20.12	20.12
	256QAM	1	0	17.38	17.32	17.32
		1	39	17.44	17.48	17.44
		1	78	16.96	17.06	16.95
		39	0	17.40	17.39	17.27
		39	19	17.35	17.26	17.30
		39	40	17.23	17.29	17.24
		79	0	17.18	17.26	17.10

NR Band 7 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		501000	507000	513000
		Frequency (MHz)		2505	2535	2565
10M	pi/2 BPSK	1	0	24.00	23.92	24.03
		1	26	24.01	24.01	24.00
		1	51	23.60	23.66	23.55
		26	0	23.80	23.98	23.81
		26	13	23.98	23.94	23.90
		26	26	23.87	23.85	23.86
		52	0	23.89	23.77	23.88
	QPSK	1	0	21.06	21.08	20.92
		1	26	20.95	21.01	20.92
		1	51	20.69	20.58	20.69
		26	0	20.97	20.86	20.91
		26	13	20.83	20.91	20.80
		26	26	20.76	20.77	20.86
		52	0	20.80	20.78	20.84
	16QAM	1	0	20.91	20.92	20.96
		1	26	20.92	20.91	21.05
		1	51	20.51	20.59	20.59
		26	0	20.85	20.96	20.94
		26	13	20.84	20.87	21.00
		26	26	20.80	20.77	20.79
		52	0	20.71	20.89	20.81
	64QAM	1	0	20.39	20.43	20.44
		1	26	20.38	20.34	20.45
		1	51	19.98	19.95	20.06
		26	0	20.33	20.24	20.28
		26	13	20.36	20.20	20.25
		26	26	20.25	20.19	20.10
		52	0	20.12	20.18	20.30
	256QAM	1	0	17.35	17.43	17.41
		1	26	17.47	17.37	17.34
		1	51	16.99	17.09	17.09
		26	0	17.38	17.21	17.30
		26	13	17.28	17.24	17.38
		26	26	17.19	17.20	17.12
		52	0	17.27	17.22	17.23

NR Band 7 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		500500	507000	513500
		Frequency (MHz)		2502.5	2535	2567.5
5M	pi/2 BPSK	1	0	24.07	24.10	24.06
		1	12	23.90	23.93	24.08
		1	24	23.60	23.61	23.65
		12	0	23.82	24.00	23.93
		12	6	23.81	23.87	23.92
		12	13	23.87	23.89	23.73
		25	0	23.84	23.88	23.77
	QPSK	1	0	20.92	20.96	20.96
		1	12	21.00	20.98	21.05
		1	24	20.61	20.60	20.69
		12	0	20.87	20.87	20.85
		12	6	20.95	20.86	20.85
		12	13	20.80	20.73	20.72
		25	0	20.87	20.83	20.80
	16QAM	1	0	20.90	21.01	21.03
		1	12	21.09	20.94	20.91
		1	24	20.61	20.53	20.56
		12	0	20.99	20.85	20.94
		12	6	20.96	20.84	20.83
		12	13	20.73	20.75	20.90
		25	0	20.85	20.72	20.89
	64QAM	1	0	20.35	20.33	20.47
		1	12	20.40	20.32	20.40
		1	24	19.98	20.10	20.04
		12	0	20.29	20.40	20.30
		12	6	20.21	20.20	20.35
		12	13	20.12	20.13	20.13
		25	0	20.21	20.12	20.12
	256QAM	1	0	17.35	17.32	17.46
		1	12	17.40	17.37	17.44
		1	24	17.06	17.10	17.00
		12	0	17.21	17.22	17.35
		12	6	17.27	17.26	17.36
		12	13	17.23	17.17	17.26
		25	0	17.30	17.16	17.30

NR Band 38 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		51600	519000	522000
		Frequency (MHz)		2580	2595	2610
20M	pi/2 BPSK	1	0	23.60	23.52	23.45
		1	25	23.41	23.35	23.42
		1	50	23.32	23.48	23.33
		25	0	23.54	23.56	23.42
		25	12	23.50	23.48	23.41
		25	25	23.51	23.41	23.60
		51	0	23.38	23.40	23.21
	QPSK	1	0	20.57	20.42	20.43
		1	25	20.31	20.40	20.45
		1	50	20.40	20.49	20.35
		25	0	20.49	20.51	20.54
		25	12	20.40	20.51	20.57
		25	25	20.50	20.59	20.58
		51	0	20.25	20.25	20.27
	16QAM	1	0	20.38	20.30	20.38
		1	25	20.19	20.27	20.17
		1	50	20.10	20.11	20.11
		25	0	20.21	20.25	20.22
		25	12	20.22	20.23	20.23
		25	25	20.40	20.35	20.27
		51	0	20.02	20.01	20.16
	64QAM	1	0	20.05	20.05	20.01
		1	25	19.99	19.85	19.82
		1	50	19.83	19.97	19.96
		25	0	20.04	19.97	19.98
		25	12	20.08	20.09	19.99
		25	25	19.92	20.08	20.09
		51	0	19.72	19.87	19.79
	256QAM	1	0	16.95	17.07	17.02
		1	25	16.81	16.81	16.81
		1	50	16.85	16.86	16.83
		25	0	16.92	17.06	16.90
		25	12	16.98	17.01	16.91
		25	25	16.96	17.08	16.90
		51	0	16.76	16.89	16.71

NR Band 38 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		515500	519000	522500
		Frequency (MHz)		2577.5	2595	2612.5
15M	pi/2 BPSK	1	0	23.57	23.48	23.58
		1	19	23.42	23.32	23.36
		1	37	23.45	23.48	23.34
		19	0	23.54	23.49	23.54
		19	9	23.51	23.48	23.51
		19	20	23.47	23.42	23.47
		38	0	23.32	23.24	23.38
	QPSK	1	0	20.46	20.51	20.53
		1	19	20.37	20.46	20.43
		1	37	20.48	20.46	20.40
		19	0	20.47	20.54	20.50
		19	9	20.41	20.54	20.52
		19	20	20.40	20.56	20.46
		38	0	20.26	20.27	20.32
	16QAM	1	0	20.24	20.21	20.22
		1	19	20.28	20.18	20.14
		1	37	20.29	20.21	20.17
		19	0	20.33	20.26	20.30
		19	9	20.38	20.39	20.39
		19	20	20.32	20.33	20.31
		38	0	20.00	20.02	20.00
	64QAM	1	0	20.03	19.98	20.02
		1	19	19.86	19.88	19.81
		1	37	19.95	19.86	19.84
		19	0	20.05	19.94	20.00
		19	9	20.10	19.94	20.07
		19	20	20.07	19.97	19.90
		38	0	19.71	19.71	19.79
	256QAM	1	0	16.91	16.95	17.06
		1	19	16.84	16.80	16.84
		1	37	16.92	16.91	16.88
		19	0	17.02	16.94	16.98
		19	9	16.98	17.09	16.93
		19	20	16.98	17.02	17.10
		38	0	16.81	16.71	16.83

NR Band 38 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		515000	519000	523000
		Frequency (MHz)		2575	2595	2615
10M	pi/2 BPSK	1	0	23.56	23.45	23.41
		1	12	23.48	23.34	23.41
		1	23	23.35	23.31	23.38
		12	0	23.50	23.56	23.53
		12	6	23.45	23.42	23.51
		12	12	23.46	23.46	23.49
		24	0	23.32	23.28	23.27
	QPSK	1	0	20.44	20.41	20.40
		1	12	20.50	20.34	20.46
		1	23	20.41	20.32	20.40
		12	0	20.52	20.44	20.52
		12	6	20.45	20.44	20.53
		12	12	20.50	20.49	20.53
		24	0	20.22	20.29	20.22
	16QAM	1	0	20.22	20.29	20.25
		1	12	20.26	20.10	20.21
		1	23	20.21	20.25	20.17
		12	0	20.34	20.35	20.26
		12	6	20.28	20.23	20.20
		12	12	20.40	20.36	20.28
		24	0	20.15	20.03	20.12
	64QAM	1	0	19.96	19.90	20.02
		1	12	19.88	19.86	19.87
		1	23	19.81	19.91	20.00
		12	0	20.07	19.92	20.00
		12	6	19.92	19.99	19.97
		12	12	19.96	20.08	20.09
		24	0	19.89	19.86	19.84
	256QAM	1	0	16.96	17.10	16.96
		1	12	16.97	16.82	16.94
		1	23	16.86	16.81	16.97
		12	0	16.90	17.00	16.97
		12	6	17.09	16.96	17.03
		12	12	17.03	16.91	16.90
		24	0	16.87	16.70	16.83

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		509202	518598	528000
		Frequency (MHz)		2546.01	2592.99	2640
100M	pi/2 BPSK	1	0	23.70	23.66	23.75
		1	136	23.53	23.59	23.51
		1	272	23.10	23.02	23.19
		136	0	23.60	23.80	23.74
		136	68	23.61	23.73	23.77
		136	136	23.45	23.59	23.48
		273	0	23.50	23.64	23.54
	QPSK	1	0	20.65	20.79	20.65
		1	136	20.63	20.58	20.58
		1	272	20.18	20.07	20.11
		136	0	20.79	20.69	20.67
		136	68	20.63	20.69	20.61
		136	136	20.54	20.47	20.55
		273	0	20.54	20.52	20.57
	16QAM	1	0	20.40	20.45	20.53
		1	136	20.38	20.41	20.30
		1	272	19.94	19.96	20.00
		136	0	20.59	20.55	20.51
		136	68	20.46	20.43	20.56
		136	136	20.23	20.34	20.34
		273	0	20.42	20.39	20.46
	64QAM	1	0	20.27	20.23	20.25
		1	136	20.12	20.02	20.15
		1	272	19.68	19.58	19.58
		136	0	20.29	20.12	20.27
		136	68	20.27	20.28	20.18
		136	136	19.98	19.98	19.91
		273	0	20.05	20.01	20.16
	256QAM	1	0	17.30	17.15	17.12
		1	136	17.04	17.00	17.00
		1	272	16.58	16.51	16.61
		136	0	17.27	17.25	17.22
		136	68	17.17	17.11	17.26
		136	136	16.99	16.95	17.02
		273	0	17.13	17.15	17.07

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		508200	518598	528996
		Frequency (MHz)		2541	2592.99	2644.98
90M	pi/2 BPSK	1	0	23.74	23.80	23.75
		1	122	23.58	23.70	23.53
		1	244	23.05	23.06	23.06
		122	0	23.63	23.76	23.73
		122	61	23.70	23.68	23.72
		122	122	23.52	23.44	23.50
		245	0	23.69	23.65	23.66
	QPSK	1	0	20.79	20.70	20.70
		1	122	20.60	20.56	20.69
		1	244	20.05	20.10	20.04
		122	0	20.60	20.73	20.71
		122	61	20.79	20.67	20.78
		122	122	20.53	20.53	20.47
		245	0	20.64	20.59	20.65
	16QAM	1	0	20.58	20.57	20.55
		1	122	20.30	20.35	20.49
		1	244	19.99	19.93	20.00
		122	0	20.41	20.51	20.57
		122	61	20.57	20.46	20.58
		122	122	20.36	20.35	20.29
		245	0	20.34	20.34	20.36
	64QAM	1	0	20.16	20.28	20.23
		1	122	20.05	20.10	20.15
		1	244	19.66	19.58	19.57
		122	0	20.11	20.28	20.25
		122	61	20.28	20.19	20.17
		122	122	20.10	19.90	19.94
		245	0	20.20	20.17	20.05
	256QAM	1	0	17.20	17.29	17.13
		1	122	17.05	17.07	17.09
		1	244	16.64	16.56	16.54
		122	0	17.25	17.29	17.19
		122	61	17.23	17.13	17.20
		122	122	16.90	17.04	17.00
		245	0	17.18	17.11	17.05

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		507204	518598	529998
		Frequency (MHz)		2536.02	2592.99	2649.99
80M	pi/2 BPSK	1	0	23.75	23.72	23.79
		1	108	23.65	23.59	23.54
		1	216	23.14	23.02	23.06
		108	0	23.79	23.78	23.65
		108	54	23.63	23.71	23.63
		108	108	23.60	23.51	23.59
		217	0	23.67	23.68	23.54
	QPSK	1	0	20.67	20.74	20.79
		1	108	20.69	20.62	20.55
		1	216	20.10	20.13	20.10
		108	0	20.79	20.73	20.71
		108	54	20.65	20.80	20.77
		108	108	20.40	20.59	20.46
		217	0	20.54	20.54	20.53
	16QAM	1	0	20.57	20.56	20.45
		1	108	20.41	20.42	20.35
		1	216	19.90	19.86	19.83
		108	0	20.56	20.52	20.58
		108	54	20.51	20.52	20.47
		108	108	20.38	20.40	20.40
		217	0	20.46	20.46	20.48
	64QAM	1	0	20.12	20.19	20.28
		1	108	20.14	20.09	20.17
		1	216	19.68	19.66	19.61
		108	0	20.13	20.26	20.17
		108	54	20.25	20.25	20.22
		108	108	20.03	19.90	20.02
		217	0	20.06	20.00	20.19
	256QAM	1	0	17.11	17.24	17.11
		1	108	17.20	17.14	17.08
		1	216	16.53	16.65	16.57
		108	0	17.25	17.12	17.25
		108	54	17.18	17.29	17.24
		108	108	17.07	17.01	17.07
		217	0	17.19	17.17	17.05

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		505200	518598	531996
		Frequency (MHz)		2526	2592.99	2659.98
60M	pi/2 BPSK	1	0	23.79	23.61	23.62
		1	81	23.63	23.52	23.53
		1	161	23.05	23.06	23.05
		81	0	23.63	23.67	23.64
		81	40	23.62	23.61	23.80
		81	81	23.57	23.44	23.47
		162	0	23.56	23.69	23.57
	QPSK	1	0	20.68	20.68	20.71
		1	81	20.66	20.57	20.58
		1	161	20.07	20.07	20.06
		81	0	20.66	20.69	20.73
		81	40	20.79	20.63	20.61
		81	81	20.49	20.58	20.49
		162	0	20.57	20.55	20.58
	16QAM	1	0	20.50	20.51	20.46
		1	81	20.31	20.44	20.32
		1	161	20.00	19.96	19.99
		81	0	20.55	20.41	20.53
		81	40	20.46	20.46	20.49
		81	81	20.28	20.36	20.32
		162	0	20.36	20.46	20.47
	64QAM	1	0	20.22	20.12	20.10
		1	81	20.01	20.04	20.12
		1	161	19.70	19.50	19.55
		81	0	20.26	20.17	20.25
		81	40	20.13	20.19	20.19
		81	81	20.09	20.08	19.90
		162	0	20.02	20.10	20.13
	256QAM	1	0	17.20	17.10	17.29
		1	81	17.07	17.03	17.03
		1	161	16.50	16.70	16.65
		81	0	17.23	17.21	17.13
		81	40	17.22	17.18	17.23
		81	81	16.97	16.90	16.98
		162	0	17.10	17.13	17.16

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		504204	518598	532998
		Frequency (MHz)		2521.02	2592.99	2664.99
50M	pi/2 BPSK	1	0	23.67	23.61	23.79
		1	66	23.58	23.67	23.60
		1	132	23.10	23.15	23.12
		66	0	23.75	23.72	23.70
		66	33	23.75	23.70	23.71
		66	66	23.56	23.60	23.48
		133	0	23.68	23.69	23.68
	QPSK	1	0	20.60	20.78	20.75
		1	66	20.56	20.54	20.50
		1	132	20.06	20.00	20.08
		66	0	20.73	20.60	20.71
		66	33	20.61	20.71	20.69
		66	66	20.46	20.41	20.41
		133	0	20.55	20.51	20.69
	16QAM	1	0	20.58	20.45	20.55
		1	66	20.34	20.41	20.46
		1	132	19.93	19.96	19.80
		66	0	20.47	20.55	20.52
		66	33	20.42	20.44	20.47
		66	66	20.23	20.22	20.34
		133	0	20.30	20.39	20.32
	64QAM	1	0	20.24	20.29	20.25
		1	66	20.06	20.04	20.19
		1	132	19.53	19.69	19.55
		66	0	20.23	20.24	20.13
		66	33	20.12	20.26	20.25
		66	66	19.95	19.99	20.05
		133	0	20.19	20.02	20.15
	256QAM	1	0	17.28	17.10	17.25
		1	66	17.06	17.18	17.03
		1	132	16.61	16.59	16.57
		66	0	17.11	17.28	17.28
		66	33	17.16	17.20	17.17
		66	66	17.03	17.00	17.10
		133	0	17.09	17.06	17.06

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		503202	518598	534000
		Frequency (MHz)		2516.01	2592.99	2670
40M	pi/2 BPSK	1	0	23.67	23.74	23.71
		1	53	23.58	23.65	23.61
		1	105	23.16	23.09	23.19
		53	0	23.62	23.68	23.62
		53	26	23.77	23.73	23.65
		53	53	23.40	23.41	23.47
		106	0	23.67	23.50	23.70
	QPSK	1	0	20.76	20.62	20.62
		1	53	20.68	20.59	20.61
		1	105	20.18	20.00	20.05
		53	0	20.79	20.78	20.61
		53	26	20.66	20.80	20.74
		53	53	20.57	20.48	20.47
		106	0	20.66	20.66	20.52
	16QAM	1	0	20.47	20.48	20.58
		1	53	20.39	20.40	20.45
		1	105	19.89	19.82	19.93
		53	0	20.53	20.47	20.57
		53	26	20.57	20.57	20.56
		53	53	20.27	20.38	20.34
		106	0	20.34	20.45	20.36
	64QAM	1	0	20.26	20.16	20.15
		1	53	20.09	20.08	20.01
		1	105	19.67	19.64	19.61
		53	0	20.14	20.12	20.28
		53	26	20.23	20.29	20.21
		53	53	19.90	20.09	19.90
		106	0	20.19	20.09	20.15
	256QAM	1	0	17.19	17.10	17.17
		1	53	17.16	17.00	17.13
		1	105	16.65	16.59	16.65
		53	0	17.21	17.28	17.19
		53	26	17.29	17.25	17.16
		53	53	16.96	16.93	16.97
		106	0	17.19	17.15	17.02

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		501204	518598	535998
		Frequency (MHz)		2506.02	2592.99	2679.99
20M	pi/2 BPSK	1	0	23.71	23.79	23.60
		1	25	23.58	23.67	23.51
		1	50	23.03	23.11	23.16
		25	0	23.76	23.68	23.67
		25	12	23.65	23.66	23.77
		25	25	23.54	23.48	23.53
		51	0	23.55	23.63	23.58
	QPSK	1	0	20.60	20.66	20.76
		1	25	20.66	20.64	20.54
		1	50	20.19	20.04	20.00
		25	0	20.76	20.80	20.69
		25	12	20.66	20.80	20.64
		25	25	20.58	20.53	20.45
		51	0	20.56	20.68	20.64
	16QAM	1	0	20.54	20.50	20.43
		1	25	20.33	20.40	20.33
		1	50	19.95	19.81	19.87
		25	0	20.58	20.52	20.41
		25	12	20.48	20.60	20.43
		25	25	20.37	20.27	20.34
		51	0	20.37	20.50	20.32
	64QAM	1	0	20.20	20.22	20.30
		1	25	20.04	20.05	20.09
		1	50	19.64	19.54	19.53
		25	0	20.15	20.26	20.27
		25	12	20.24	20.11	20.16
		25	25	19.96	19.98	19.94
		51	0	20.05	20.14	20.13
	256QAM	1	0	17.25	17.25	17.23
		1	25	17.02	17.01	17.01
		1	50	16.69	16.61	16.54
		25	0	17.25	17.13	17.10
		25	12	17.13	17.11	17.25
		25	25	16.94	17.00	17.05
		51	0	17.01	17.11	17.06

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		500700	518598	536496
		Frequency (MHz)		2503.5	2592.99	2682.48
15M	pi/2 BPSK	1	0	23.74	23.67	23.67
		1	19	23.54	23.57	23.53
		1	37	23.04	23.00	23.18
		19	0	23.65	23.66	23.75
		19	9	23.66	23.74	23.73
		19	20	23.60	23.60	23.40
		38	0	23.63	23.58	23.60
	QPSK	1	0	20.74	20.68	20.63
		1	19	20.69	20.70	20.58
		1	37	20.15	20.08	20.19
		19	0	20.66	20.70	20.69
		19	9	20.65	20.63	20.77
		19	20	20.53	20.58	20.48
		38	0	20.55	20.51	20.52
	16QAM	1	0	20.47	20.46	20.40
		1	19	20.31	20.36	20.49
		1	37	19.95	19.98	19.91
		19	0	20.46	20.52	20.58
		19	9	20.42	20.47	20.57
		19	20	20.28	20.37	20.27
		38	0	20.42	20.30	20.48
	64QAM	1	0	20.25	20.26	20.28
		1	19	20.17	20.10	20.15
		1	37	19.60	19.63	19.57
		19	0	20.10	20.11	20.20
		19	9	20.20	20.24	20.24
		19	20	19.93	20.05	20.05
		38	0	20.09	20.06	20.10
	256QAM	1	0	17.19	17.10	17.20
		1	19	17.11	17.18	17.15
		1	37	16.70	16.63	16.68
		19	0	17.14	17.27	17.17
		19	9	17.18	17.13	17.17
		19	20	16.98	17.05	17.08
		38	0	17.15	17.07	17.03

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		500202	518598	537000
		Frequency (MHz)		2501.01	2592.99	2685
10M	pi/2 BPSK	1	0	23.79	23.68	23.75
		1	12	23.54	23.63	23.60
		1	23	23.12	23.13	23.00
		12	0	23.65	23.80	23.72
		12	6	23.71	23.72	23.66
		12	12	23.49	23.40	23.60
		24	0	23.65	23.51	23.55
	QPSK	1	0	20.71	20.78	20.66
		1	12	20.62	20.64	20.70
		1	23	20.11	20.03	20.03
		12	0	20.61	20.68	20.79
		12	6	20.76	20.72	20.69
		12	12	20.41	20.60	20.49
		24	0	20.52	20.58	20.52
	16QAM	1	0	20.53	20.55	20.47
		1	12	20.43	20.31	20.49
		1	23	19.82	19.93	19.96
		12	0	20.58	20.50	20.40
		12	6	20.40	20.45	20.60
		12	12	20.34	20.21	20.26
		24	0	20.36	20.48	20.31
	64QAM	1	0	20.12	20.15	20.29
		1	12	20.13	20.01	20.11
		1	23	19.66	19.67	19.65
		12	0	20.20	20.10	20.26
		12	6	20.11	20.24	20.30
		12	12	20.00	20.05	20.05
		24	0	20.00	20.05	20.11
	256QAM	1	0	17.16	17.18	17.30
		1	12	17.03	17.17	17.01
		1	23	16.53	16.64	16.53
		12	0	17.27	17.20	17.15
		12	6	17.24	17.22	17.29
		12	12	17.02	17.10	16.92
		24	0	17.03	17.07	17.08

NR Band 66 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		346000	349000	352000
		Frequency (MHz)		1730	1745	1760
40M	pi/2 BPSK	1	0	23.64	23.59	23.65
		1	108	24.08	24.00	23.95
		1	215	24.01	23.93	24.10
		108	0	23.94	23.92	23.95
		108	53	23.87	23.82	23.98
		108	107	23.93	23.81	23.87
		216	0	23.95	23.96	23.89
	QPSK	1	0	20.53	20.66	20.53
		1	108	21.09	20.94	21.04
		1	215	21.00	20.93	21.01
		108	0	21.00	20.98	20.91
		108	53	20.98	20.86	20.87
		108	107	20.98	20.88	20.85
		216	0	20.94	20.90	20.86
	16QAM	1	0	20.45	20.43	20.39
		1	108	20.86	20.88	20.87
		1	215	20.89	20.72	20.81
		108	0	20.71	20.71	20.60
		108	53	20.73	20.73	20.63
		108	107	20.77	20.80	20.72
		216	0	20.77	20.68	20.78
	64QAM	1	0	20.19	20.19	20.07
		1	108	20.41	20.54	20.50
		1	215	20.44	20.59	20.60
		108	0	20.35	20.31	20.32
		108	53	20.46	20.48	20.31
		108	107	20.38	20.50	20.37
		216	0	20.35	20.50	20.43
	256QAM	1	0	17.00	17.16	17.04
		1	108	17.57	17.60	17.60
		1	215	17.56	17.47	17.47
		108	0	17.46	17.35	17.37
		108	53	17.32	17.48	17.30
		108	107	17.44	17.30	17.45
		216	0	17.32	17.41	17.34

NR Band 66 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		344000	349000	354000
		Frequency (MHz)		1720	1745	1770
20M	pi/2 BPSK	1	0	23.69	23.67	23.58
		1	53	24.10	23.92	23.97
		1	105	23.99	24.02	23.90
		53	0	23.89	23.93	23.81
		53	27	23.98	23.81	23.93
		53	53	23.97	23.82	23.92
		106	0	23.80	23.99	23.99
	QPSK	1	0	20.54	20.60	20.64
		1	53	20.95	20.95	21.08
		1	105	21.02	20.92	20.95
		53	0	20.92	20.85	20.81
		53	27	20.84	20.99	20.97
		53	53	20.95	20.97	20.93
		106	0	20.98	20.90	20.98
	16QAM	1	0	20.35	20.33	20.34
		1	53	20.73	20.79	20.73
		1	105	20.87	20.71	20.74
		53	0	20.63	20.60	20.78
		53	27	20.66	20.80	20.62
		53	53	20.61	20.75	20.60
		106	0	20.78	20.77	20.67
	64QAM	1	0	20.17	20.16	20.08
		1	53	20.41	20.44	20.49
		1	105	20.47	20.51	20.53
		53	0	20.33	20.48	20.50
		53	27	20.46	20.48	20.33
		53	53	20.49	20.35	20.47
		106	0	20.37	20.50	20.31
	256QAM	1	0	17.12	17.05	17.13
		1	53	17.45	17.41	17.51
		1	105	17.60	17.40	17.52
		53	0	17.41	17.45	17.37
		53	27	17.44	17.31	17.37
		53	53	17.39	17.48	17.44
		106	0	17.35	17.44	17.42

NR Band 66 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		343500	349000	354500
		Frequency (MHz)		1717.5	1745	1772.5
15M	pi/2 BPSK	1	0	23.57	23.66	23.68
		1	39	24.05	23.96	23.94
		1	78	24.04	23.93	23.96
		39	0	23.97	23.81	23.89
		39	19	23.88	23.87	23.83
		39	40	23.81	23.84	23.94
		79	0	23.81	23.88	23.82
	QPSK	1	0	20.56	20.54	20.68
		1	39	20.95	21.08	21.09
		1	78	21.06	21.03	20.90
		39	0	20.92	20.96	20.89
		39	19	20.93	20.88	20.89
		39	40	20.93	20.91	20.85
		79	0	20.97	20.88	20.85
	16QAM	1	0	20.50	20.44	20.40
		1	39	20.86	20.75	20.88
		1	78	20.71	20.89	20.78
		39	0	20.63	20.78	20.65
		39	19	20.66	20.72	20.61
		39	40	20.80	20.63	20.76
		79	0	20.61	20.65	20.72
	64QAM	1	0	20.17	20.03	20.02
		1	39	20.54	20.48	20.40
		1	78	20.58	20.60	20.41
		39	0	20.40	20.49	20.34
		39	19	20.31	20.48	20.46
		39	40	20.43	20.49	20.41
		79	0	20.49	20.44	20.45
	256QAM	1	0	17.11	17.01	17.01
		1	39	17.57	17.59	17.43
		1	78	17.49	17.52	17.58
		39	0	17.43	17.42	17.35
		39	19	17.31	17.46	17.40
		39	40	17.32	17.46	17.42
		79	0	17.30	17.37	17.46

NR Band 66 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		343000	349000	355000
		Frequency (MHz)		1715	1745	1775
10M	pi/2 BPSK	1	0	23.59	23.56	23.62
		1	26	24.01	23.98	24.06
		1	51	24.06	23.99	23.92
		26	0	23.97	23.88	23.80
		26	13	23.89	23.89	23.92
		26	26	23.89	23.94	23.86
		52	0	23.97	23.85	23.92
	QPSK	1	0	20.70	20.63	20.60
		1	26	21.03	20.90	20.99
		1	51	20.96	20.90	20.98
		26	0	20.89	20.83	20.86
		26	13	20.97	20.94	20.81
		26	26	20.92	20.92	20.96
		52	0	20.81	21.00	20.85
	16QAM	1	0	20.37	20.35	20.39
		1	26	20.85	20.89	20.74
		1	51	20.72	20.90	20.76
		26	0	20.71	20.62	20.70
		26	13	20.72	20.72	20.76
		26	26	20.79	20.73	20.70
		52	0	20.64	20.68	20.70
	64QAM	1	0	20.05	20.11	20.08
		1	26	20.47	20.48	20.49
		1	51	20.43	20.44	20.49
		26	0	20.40	20.42	20.45
		26	13	20.30	20.43	20.32
		26	26	20.35	20.33	20.47
		52	0	20.49	20.38	20.46
	256QAM	1	0	17.08	17.12	17.01
		1	26	17.56	17.54	17.57
		1	51	17.40	17.53	17.50
		26	0	17.41	17.43	17.36
		26	13	17.45	17.42	17.35
		26	26	17.35	17.41	17.50
		52	0	17.41	17.34	17.42

NR Band 66 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		342500	349000	355500
		Frequency (MHz)		1712.5	1745	1777.5
5M	pi/2 BPSK	1	0	23.70	23.59	23.52
		1	12	23.98	23.90	23.97
		1	24	23.93	23.92	24.07
		12	0	23.92	23.87	23.99
		12	6	23.91	23.96	23.87
		12	13	23.85	23.90	23.80
		25	0	23.89	23.80	23.97
	QPSK	1	0	20.61	20.67	20.58
		1	12	20.95	20.99	21.04
		1	24	20.99	21.02	20.92
		12	0	20.82	20.88	20.84
		12	6	20.92	20.90	20.94
		12	13	20.93	20.92	20.84
		25	0	21.00	20.95	20.87
	16QAM	1	0	20.32	20.48	20.42
		1	12	20.73	20.79	20.74
		1	24	20.73	20.90	20.89
		12	0	20.69	20.73	20.62
		12	6	20.60	20.76	20.61
		12	13	20.64	20.72	20.73
		25	0	20.62	20.76	20.63
	64QAM	1	0	20.19	20.19	20.14
		1	12	20.59	20.40	20.43
		1	24	20.55	20.41	20.57
		12	0	20.36	20.35	20.39
		12	6	20.41	20.45	20.35
		12	13	20.37	20.46	20.31
		25	0	20.50	20.36	20.37
	256QAM	1	0	17.20	17.06	17.14
		1	12	17.40	17.43	17.51
		1	24	17.52	17.54	17.59
		12	0	17.39	17.40	17.43
		12	6	17.49	17.33	17.32
		12	13	17.47	17.41	17.46
		25	0	17.48	17.35	17.48

NR Band 71 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		134600	136100	137600
		Frequency (MHz)		673	680.5	688
20M	pi/2 BPSK	1	0	24.26	24.24	24.27
		1	53	23.96	23.97	24.06
		1	105	23.92	24.08	23.95
		53	0	24.05	24.09	24.10
		53	27	24.09	23.95	24.09
		53	53	23.91	24.02	24.03
		106	0	24.01	23.92	24.10
	QPSK	1	0	21.19	21.24	21.22
		1	53	20.90	21.05	21.03
		1	105	21.01	21.10	20.95
		53	0	21.01	20.95	20.97
		53	27	20.98	21.10	20.96
		53	53	20.92	21.08	20.95
		106	0	20.90	20.99	21.06
	16QAM	1	0	21.08	20.90	20.96
		1	53	20.89	20.81	20.89
		1	105	20.74	20.84	20.78
		53	0	20.76	20.84	20.77
		53	27	20.79	20.90	20.73
		53	53	20.70	20.90	20.80
		106	0	20.84	20.85	20.71
	64QAM	1	0	20.62	20.62	20.63
		1	53	20.41	20.48	20.45
		1	105	20.44	20.41	20.52
		53	0	20.56	20.50	20.46
		53	27	20.60	20.59	20.51
		53	53	20.40	20.44	20.57
		106	0	20.47	20.40	20.57
	256QAM	1	0	17.75	17.75	17.78
		1	53	17.52	17.52	17.47
		1	105	17.45	17.47	17.49
		53	0	17.48	17.41	17.48
		53	27	17.57	17.54	17.41
		53	53	17.45	17.59	17.56
		106	0	17.45	17.45	17.59

NR Band 71 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		134100	136100	138100
		Frequency (MHz)		670.5	680.5	690.5
15M	pi/2 BPSK	1	0	24.19	24.28	24.14
		1	39	24.08	24.06	24.02
		1	78	24.01	23.95	24.04
		39	0	24.10	24.06	23.97
		39	19	24.09	24.04	24.09
		39	40	24.04	23.92	23.99
		79	0	24.02	23.97	24.06
	QPSK	1	0	21.23	21.28	21.28
		1	39	20.96	21.05	21.07
		1	78	20.99	20.99	20.92
		39	0	20.99	21.09	21.08
		39	19	21.01	20.93	20.96
		39	40	20.91	20.98	21.08
		79	0	21.08	20.90	20.98
	16QAM	1	0	20.90	20.94	21.07
		1	39	20.85	20.88	20.81
		1	78	20.82	20.82	20.73
		39	0	20.71	20.79	20.78
		39	19	20.83	20.77	20.85
		39	40	20.90	20.81	20.74
		79	0	20.73	20.71	20.70
	64QAM	1	0	20.73	20.64	20.70
		1	39	20.50	20.44	20.52
		1	78	20.54	20.54	20.42
		39	0	20.50	20.49	20.54
		39	19	20.46	20.42	20.49
		39	40	20.46	20.55	20.53
		79	0	20.45	20.46	20.53
	256QAM	1	0	17.63	17.73	17.67
		1	39	17.58	17.46	17.41
		1	78	17.51	17.43	17.43
		39	0	17.60	17.47	17.50
		39	19	17.60	17.54	17.48
		39	40	17.46	17.46	17.44
		79	0	17.49	17.58	17.56

NR Band 71 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133600	136100	138600
		Frequency (MHz)		668	680.5	693
10M	pi/2 BPSK	1	0	24.10	24.24	24.17
		1	26	24.10	24.05	23.97
		1	51	24.08	23.91	23.90
		26	0	24.07	23.99	23.97
		26	13	23.96	24.04	23.96
		26	26	23.93	23.96	24.04
		52	0	24.08	24.05	23.92
	QPSK	1	0	21.18	21.30	21.25
		1	26	21.03	20.92	20.98
		1	51	20.92	20.91	20.92
		26	0	21.07	20.92	20.91
		26	13	21.06	21.00	20.91
		26	26	20.96	21.09	21.09
		52	0	21.07	20.94	20.90
	16QAM	1	0	21.02	21.09	20.90
		1	26	20.72	20.86	20.76
		1	51	20.75	20.75	20.78
		26	0	20.81	20.78	20.89
		26	13	20.72	20.88	20.70
		26	26	20.75	20.75	20.83
		52	0	20.74	20.80	20.72
	64QAM	1	0	20.72	20.60	20.77
		1	26	20.60	20.53	20.53
		1	51	20.41	20.60	20.47
		26	0	20.44	20.54	20.53
		26	13	20.44	20.45	20.42
		26	26	20.44	20.53	20.58
		52	0	20.48	20.43	20.54
	256QAM	1	0	17.65	17.60	17.63
		1	26	17.50	17.60	17.52
		1	51	17.44	17.48	17.40
		26	0	17.40	17.44	17.57
		26	13	17.57	17.50	17.55
		26	26	17.59	17.52	17.54
		52	0	17.57	17.46	17.45

NR Band 71 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133100	136100	139100
		Frequency (MHz)		665.5	680.5	695.5
5M	pi/2 BPSK	1	0	24.13	24.13	24.21
		1	12	23.98	23.95	23.97
		1	24	24.09	23.92	24.00
		12	0	24.07	24.09	23.93
		12	6	24.10	24.09	24.06
		12	13	23.99	23.91	23.91
		25	0	23.94	23.98	24.08
	QPSK	1	0	21.30	21.21	21.17
		1	12	20.93	20.97	21.07
		1	24	21.04	21.00	21.06
		12	0	21.10	20.93	20.91
		12	6	20.93	20.93	20.93
		12	13	20.96	21.03	20.97
		25	0	21.09	21.10	20.97
	16QAM	1	0	20.98	20.95	20.91
		1	12	20.77	20.86	20.90
		1	24	20.80	20.87	20.87
		12	0	20.81	20.88	20.70
		12	6	20.83	20.73	20.71
		12	13	20.81	20.71	20.73
		25	0	20.88	20.76	20.88
	64QAM	1	0	20.71	20.72	20.62
		1	12	20.55	20.47	20.47
		1	24	20.58	20.54	20.56
		12	0	20.46	20.50	20.48
		12	6	20.42	20.40	20.54
		12	13	20.45	20.45	20.44
		25	0	20.54	20.40	20.52
	256QAM	1	0	17.76	17.64	17.69
		1	12	17.50	17.43	17.43
		1	24	17.51	17.47	17.60
		12	0	17.51	17.51	17.47
		12	6	17.50	17.54	17.58
		12	13	17.60	17.57	17.59
		25	0	17.53	17.47	17.53

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		650000	656000	662000
		Frequency (MHz)		3750	3840	3930
100M	pi/2 BPSK	1	0	23.50	23.49	23.50
		1	136	23.54	23.69	23.55
		1	272	23.54	23.50	23.52
		136	0	23.57	23.47	23.40
		136	68	23.54	23.40	23.60
		136	136	23.55	23.58	23.44
		273	0	23.46	23.44	23.59
	QPSK	1	0	20.43	20.51	20.54
		1	136	20.67	20.54	20.52
		1	272	20.49	20.59	20.57
		136	0	20.58	20.58	20.47
		136	68	20.53	20.60	20.50
		136	136	20.54	20.44	20.44
		273	0	20.58	20.50	20.55
	16QAM	1	0	20.29	20.28	20.40
		1	136	20.41	20.47	20.46
		1	272	20.26	20.28	20.26
		136	0	20.22	20.29	20.40
		136	68	20.40	20.33	20.30
		136	136	20.34	20.30	20.23
		273	0	20.35	20.40	20.31
	64QAM	1	0	20.07	20.06	19.95
		1	136	20.18	20.20	20.11
		1	272	19.94	20.09	20.03
		136	0	20.09	20.02	20.06
		136	68	19.96	19.92	19.97
		136	136	20.07	19.92	20.04
		273	0	20.02	20.01	19.98
	256QAM	1	0	17.02	16.91	16.90
		1	136	17.06	17.07	17.00
		1	272	16.93	16.95	17.03
		136	0	16.90	17.05	16.94
		136	68	16.93	17.03	16.98
		136	136	17.09	17.08	16.93
		273	0	16.92	16.93	16.90

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		649668	656000	662332
		Frequency (MHz)		3745.02	3840	3934.98
90M	pi/2 BPSK	1	0	23.50	23.41	23.56
		1	122	23.63	23.65	23.62
		1	244	23.45	23.48	23.52
		122	0	23.47	23.60	23.43
		122	61	23.54	23.44	23.51
		122	122	23.44	23.57	23.46
		245	0	23.58	23.45	23.60
	QPSK	1	0	20.57	20.55	20.46
		1	122	20.65	20.66	20.68
		1	244	20.56	20.55	20.47
		122	0	20.40	20.43	20.55
		122	61	20.45	20.58	20.49
		122	122	20.43	20.59	20.43
		245	0	20.55	20.58	20.50
	16QAM	1	0	20.21	20.32	20.38
		1	122	20.38	20.39	20.48
		1	244	20.24	20.23	20.40
		122	0	20.27	20.33	20.36
		122	61	20.22	20.28	20.24
		122	122	20.31	20.27	20.29
		245	0	20.38	20.21	20.25
	64QAM	1	0	20.03	20.09	19.97
		1	122	20.00	20.13	20.07
		1	244	19.93	19.92	19.92
		122	0	19.92	20.03	19.91
		122	61	20.04	20.02	20.07
		122	122	20.10	19.95	20.08
		245	0	19.97	20.01	20.05
	256QAM	1	0	17.04	16.91	17.00
		1	122	17.01	17.15	17.04
		1	244	16.90	16.93	16.98
		122	0	16.93	16.95	16.91
		122	61	17.01	16.99	17.01
		122	122	17.10	16.97	17.09
		245	0	16.91	16.97	16.99

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		649334	656000	662666
		Frequency (MHz)		3740.01	3840	3939.99
80M	pi/2 BPSK	1	0	23.54	23.49	23.50
		1	108	23.64	23.57	23.68
		1	216	23.52	23.57	23.44
		108	0	23.60	23.52	23.51
		108	54	23.55	23.42	23.54
		108	108	23.50	23.55	23.41
		217	0	23.45	23.56	23.53
	QPSK	1	0	20.47	20.47	20.49
		1	108	20.58	20.51	20.66
		1	216	20.52	20.47	20.42
		108	0	20.42	20.58	20.48
		108	54	20.51	20.60	20.51
		108	108	20.45	20.47	20.60
		217	0	20.59	20.57	20.42
	16QAM	1	0	20.32	20.28	20.24
		1	108	20.38	20.48	20.43
		1	216	20.37	20.23	20.37
		108	0	20.29	20.33	20.35
		108	54	20.36	20.32	20.36
		108	108	20.33	20.25	20.26
		217	0	20.32	20.22	20.40
	64QAM	1	0	20.06	20.07	20.03
		1	108	20.09	20.12	20.05
		1	216	20.04	19.90	20.00
		108	0	19.97	20.08	20.01
		108	54	20.00	19.94	19.94
		108	108	19.93	20.04	20.04
		217	0	20.00	20.04	20.06
	256QAM	1	0	17.06	17.03	17.08
		1	108	17.08	17.20	17.08
		1	216	17.10	16.93	16.90
		108	0	17.06	17.09	16.93
		108	54	16.97	17.06	17.06
		108	108	16.94	16.99	16.99
		217	0	16.98	16.91	16.98

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		648668	656000	663332
		Frequency (MHz)		3730.02	3840	3949.98
60M	pi/2 BPSK	1	0	23.53	23.60	23.58
		1	81	23.63	23.64	23.66
		1	161	23.49	23.50	23.41
		81	0	23.44	23.49	23.60
		81	40	23.58	23.56	23.51
		81	81	23.56	23.43	23.60
		162	0	23.51	23.56	23.40
	QPSK	1	0	20.55	20.58	20.56
		1	81	20.66	20.60	20.65
		1	161	20.43	20.44	20.52
		81	0	20.47	20.45	20.44
		81	40	20.46	20.42	20.51
		81	81	20.55	20.45	20.46
		162	0	20.45	20.40	20.45
	16QAM	1	0	20.39	20.29	20.25
		1	81	20.41	20.47	20.40
		1	161	20.20	20.28	20.21
		81	0	20.40	20.35	20.39
		81	40	20.22	20.24	20.37
		81	81	20.22	20.24	20.35
		162	0	20.27	20.39	20.29
	64QAM	1	0	20.01	20.07	19.92
		1	81	20.10	20.13	20.09
		1	161	19.98	20.01	20.01
		81	0	20.10	19.94	19.93
		81	40	20.01	19.95	19.99
		81	81	19.92	20.09	19.99
		162	0	20.00	19.92	20.03
	256QAM	1	0	16.95	16.99	17.01
		1	81	17.15	17.00	17.17
		1	161	16.95	16.90	16.93
		81	0	16.94	16.94	17.06
		81	40	17.02	16.98	17.08
		81	81	17.10	17.06	17.05
		162	0	16.95	16.99	16.98

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		648334	656000	663666
		Frequency (MHz)		3725.01	3840	3954.99
50M	pi/2 BPSK	1	0	23.51	23.53	23.52
		1	66	23.63	23.54	23.52
		1	132	23.47	23.42	23.46
		66	0	23.42	23.40	23.59
		66	33	23.42	23.45	23.57
		66	66	23.43	23.46	23.58
		133	0	23.54	23.51	23.49
	QPSK	1	0	20.49	20.46	20.47
		1	66	20.52	20.57	20.53
		1	132	20.51	20.50	20.54
		66	0	20.50	20.60	20.42
		66	33	20.43	20.46	20.60
		66	66	20.41	20.43	20.47
		133	0	20.50	20.43	20.49
	16QAM	1	0	20.33	20.38	20.22
		1	66	20.38	20.50	20.47
		1	132	20.31	20.37	20.30
		66	0	20.22	20.38	20.21
		66	33	20.36	20.31	20.21
		66	66	20.40	20.21	20.39
		133	0	20.35	20.20	20.24
	64QAM	1	0	20.00	19.96	19.90
		1	66	20.03	20.03	20.15
		1	132	19.99	19.96	20.01
		66	0	20.02	19.94	19.98
		66	33	19.98	19.96	19.95
		66	66	20.06	19.91	20.03
		133	0	20.04	19.98	20.05
	256QAM	1	0	17.10	17.01	17.07
		1	66	17.09	17.01	17.05
		1	132	17.03	17.03	17.03
		66	0	17.08	17.07	17.01
		66	33	16.91	17.07	17.09
		66	66	17.08	16.97	17.03
		133	0	17.04	17.07	16.96

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		648000	656000	664000
		Frequency (MHz)		3720	3840	3960
40M	pi/2 BPSK	1	0	23.43	23.47	23.57
		1	53	23.59	23.51	23.50
		1	105	23.48	23.57	23.48
		53	0	23.40	23.60	23.55
		53	26	23.58	23.52	23.51
		53	53	23.51	23.60	23.45
		106	0	23.43	23.52	23.40
	QPSK	1	0	20.42	20.40	20.42
		1	53	20.50	20.66	20.56
		1	105	20.48	20.56	20.40
		53	0	20.60	20.57	20.43
		53	26	20.48	20.41	20.57
		53	53	20.56	20.44	20.46
		106	0	20.46	20.48	20.59
	16QAM	1	0	20.38	20.20	20.30
		1	53	20.41	20.38	20.31
		1	105	20.25	20.32	20.31
		53	0	20.25	20.21	20.23
		53	26	20.32	20.23	20.26
		53	53	20.35	20.23	20.31
		106	0	20.31	20.40	20.25
	64QAM	1	0	20.06	19.99	19.90
		1	53	20.19	20.04	20.09
		1	105	19.93	19.94	19.97
		53	0	19.90	20.05	19.97
		53	26	20.07	20.00	20.06
		53	53	19.93	19.96	20.09
		106	0	19.97	20.08	20.03
	256QAM	1	0	17.00	16.99	16.98
		1	53	17.05	17.05	17.16
		1	105	17.00	16.94	16.92
		53	0	16.91	16.99	17.07
		53	26	17.04	16.97	16.94
		53	53	16.99	16.90	16.90
		106	0	16.91	17.05	16.90

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		647334	656000	664666
		Frequency (MHz)		3710.01	3840	3969.99
20M	pi/2 BPSK	1	0	23.58	23.57	23.52
		1	25	23.59	23.61	23.61
		1	50	23.59	23.49	23.45
		25	0	23.60	23.60	23.52
		25	12	23.50	23.45	23.42
		25	25	23.45	23.46	23.41
		51	0	23.53	23.41	23.52
	QPSK	1	0	20.57	20.40	20.53
		1	25	20.69	20.63	20.52
		1	50	20.44	20.53	20.54
		25	0	20.54	20.45	20.55
		25	12	20.42	20.41	20.59
		25	25	20.57	20.55	20.45
		51	0	20.50	20.49	20.54
	16QAM	1	0	20.39	20.34	20.26
		1	25	20.34	20.34	20.40
		1	50	20.31	20.24	20.26
		25	0	20.39	20.26	20.23
		25	12	20.38	20.37	20.40
		25	25	20.32	20.27	20.30
		51	0	20.23	20.31	20.29
	64QAM	1	0	19.90	19.97	20.03
		1	25	20.07	20.09	20.10
		1	50	19.99	20.05	20.02
		25	0	20.01	20.00	20.00
		25	12	19.98	20.00	19.93
		25	25	19.99	19.96	20.07
		51	0	20.00	20.05	20.09
	256QAM	1	0	17.08	17.05	16.98
		1	25	17.13	17.20	17.20
		1	50	17.10	16.96	17.01
		25	0	17.04	17.02	17.02
		25	12	17.04	17.00	17.07
		25	25	16.97	17.05	17.09
		51	0	16.96	17.09	17.01

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		647168	656000	664832
		Frequency (MHz)		3707.52	3840	3972.48
15M	pi/2 BPSK	1	0	23.54	23.56	23.53
		1	19	23.54	23.61	23.54
		1	37	23.52	23.47	23.43
		19	0	23.43	23.60	23.43
		19	9	23.46	23.41	23.57
		19	20	23.58	23.45	23.52
		38	0	23.46	23.55	23.40
	QPSK	1	0	20.49	20.51	20.59
		1	19	20.59	20.68	20.51
		1	37	20.44	20.44	20.47
		19	0	20.43	20.40	20.52
		19	9	20.58	20.57	20.54
		19	20	20.49	20.45	20.60
		38	0	20.54	20.49	20.56
	16QAM	1	0	20.38	20.26	20.28
		1	19	20.38	20.49	20.43
		1	37	20.40	20.38	20.23
		19	0	20.21	20.25	20.34
		19	9	20.26	20.34	20.34
		19	20	20.33	20.30	20.34
		38	0	20.39	20.31	20.24
	64QAM	1	0	19.91	20.02	20.02
		1	19	20.04	20.02	20.20
		1	37	19.92	19.98	20.08
		19	0	19.98	20.00	20.04
		19	9	19.99	20.09	20.01
		19	20	19.99	20.00	20.02
		38	0	20.01	20.10	19.98
	256QAM	1	0	17.01	16.96	16.96
		1	19	17.19	17.14	17.04
		1	37	17.01	16.96	16.91
		19	0	16.95	17.06	17.08
		19	9	17.04	16.99	16.94
		19	20	17.05	16.97	16.94
		38	0	16.92	16.96	17.00

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		647000	656000	665000
		Frequency (MHz)		3705	3840	3975
10M	pi/2 BPSK	1	0	23.54	23.43	23.59
		1	12	23.56	23.65	23.55
		1	23	23.44	23.52	23.47
		12	0	23.56	23.45	23.48
		12	6	23.53	23.47	23.51
		12	12	23.41	23.58	23.53
		24	0	23.44	23.59	23.51
	QPSK	1	0	20.56	20.45	20.43
		1	12	20.60	20.50	20.61
		1	23	20.40	20.57	20.60
		12	0	20.42	20.53	20.43
		12	6	20.53	20.47	20.53
		12	12	20.51	20.58	20.53
		24	0	20.43	20.52	20.40
	16QAM	1	0	20.29	20.40	20.31
		1	12	20.36	20.35	20.36
		1	23	20.36	20.26	20.40
		12	0	20.28	20.36	20.36
		12	6	20.24	20.21	20.32
		12	12	20.22	20.37	20.36
		24	0	20.22	20.26	20.35
	64QAM	1	0	19.91	19.96	19.99
		1	12	20.04	20.17	20.12
		1	23	19.90	19.98	20.06
		12	0	20.05	20.04	20.09
		12	6	20.04	19.93	20.06
		12	12	20.08	19.93	20.08
		24	0	20.03	19.96	19.99
	256QAM	1	0	16.92	17.06	17.06
		1	12	17.05	17.06	17.17
		1	23	17.03	17.05	16.92
		12	0	16.97	16.95	16.97
		12	6	16.97	17.04	17.08
		12	12	16.99	16.98	17.01
		24	0	17.02	16.96	17.01

EIRP Power (dBm)

NR Band 7 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		502000	507000	512000
		Frequency (MHz)		2510	2535	2560
20M	pi/2 BPSK	1	0	26.20	26.29	26.11
		1	53	26.25	26.19	26.18
		1	105	25.71	25.70	25.81
		53	0	26.16	26.09	26.14
		53	27	26.18	26.19	26.04
		53	53	25.90	25.94	25.94
		106	0	26.05	25.98	26.09
	QPSK	1	0	23.13	23.27	23.26
		1	53	23.10	23.20	23.16
		1	105	22.83	22.88	22.77
		53	0	23.18	23.14	23.18
		53	27	23.10	23.01	23.10
		53	53	22.91	22.92	22.95
		106	0	22.94	22.91	23.05
	16QAM	1	0	23.10	23.26	23.17
		1	53	23.12	23.16	23.17
		1	105	22.85	22.84	22.80
		53	0	23.19	23.12	23.11
		53	27	23.17	23.04	23.02
		53	53	22.90	22.95	23.02
		106	0	22.96	23.08	22.91
	64QAM	1	0	22.51	22.69	22.69
		1	53	22.69	22.65	22.60
		1	105	22.29	22.20	22.15
		53	0	22.57	22.46	22.59
		53	27	22.44	22.40	22.40
		53	53	22.33	22.34	22.37
		106	0	22.38	22.44	22.46
	256QAM	1	0	19.70	19.50	19.64
		1	53	19.59	19.61	19.69
		1	105	19.15	19.26	19.27
		53	0	19.57	19.47	19.55
		53	27	19.48	19.44	19.41
		53	53	19.34	19.34	19.35
		106	0	19.50	19.48	19.30

*EIRP = Conducted + antenna gain

NR Band 7 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		501500	507000	512500
		Frequency (MHz)		2507.5	2535	2562.5
15M	pi/2 BPSK	1	0	26.10	26.14	26.10
		1	39	26.19	26.24	26.12
		1	78	25.90	25.72	25.87
		39	0	26.06	26.12	26.19
		39	19	26.16	26.01	26.03
		39	40	25.97	26.03	25.90
		79	0	26.09	25.92	26.09
	QPSK	1	0	23.26	23.23	23.13
		1	39	23.12	23.19	23.13
		1	78	22.88	22.88	22.75
		39	0	23.14	23.20	23.12
		39	19	23.07	23.06	23.17
		39	40	23.02	22.98	22.99
		79	0	22.90	22.90	22.97
	16QAM	1	0	23.10	23.20	23.20
		1	39	23.13	23.23	23.28
		1	78	22.77	22.79	22.86
		39	0	23.02	23.05	23.16
		39	19	23.13	23.12	23.17
		39	40	22.90	23.06	22.90
		79	0	22.91	22.98	23.10
	64QAM	1	0	22.65	22.54	22.68
		1	39	22.51	22.55	22.67
		1	78	22.23	22.10	22.19
		39	0	22.54	22.45	22.40
		39	19	22.55	22.42	22.41
		39	40	22.32	22.33	22.47
		79	0	22.38	22.32	22.32
	256QAM	1	0	19.58	19.52	19.52
		1	39	19.64	19.68	19.64
		1	78	19.16	19.26	19.15
		39	0	19.60	19.59	19.47
		39	19	19.55	19.46	19.50
		39	40	19.43	19.49	19.44
		79	0	19.38	19.46	19.30

*EIRP = Conducted + antenna gain

NR Band 7 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		501000	507000	513000
		Frequency (MHz)		2505	2535	2565
10M	pi/2 BPSK	1	0	26.20	26.12	26.23
		1	26	26.21	26.21	26.20
		1	51	25.80	25.86	25.75
		26	0	26.00	26.18	26.01
		26	13	26.18	26.14	26.10
		26	26	26.07	26.05	26.06
		52	0	26.09	25.97	26.08
	QPSK	1	0	23.26	23.28	23.12
		1	26	23.15	23.21	23.12
		1	51	22.89	22.78	22.89
		26	0	23.17	23.06	23.11
		26	13	23.03	23.11	23.00
		26	26	22.96	22.97	23.06
		52	0	23.00	22.98	23.04
	16QAM	1	0	23.11	23.12	23.16
		1	26	23.12	23.11	23.25
		1	51	22.71	22.79	22.79
		26	0	23.05	23.16	23.14
		26	13	23.04	23.07	23.20
		26	26	23.00	22.97	22.99
		52	0	22.91	23.09	23.01
	64QAM	1	0	22.59	22.63	22.64
		1	26	22.58	22.54	22.65
		1	51	22.18	22.15	22.26
		26	0	22.53	22.44	22.48
		26	13	22.56	22.40	22.45
		26	26	22.45	22.39	22.30
		52	0	22.32	22.38	22.50
	256QAM	1	0	19.55	19.63	19.61
		1	26	19.67	19.57	19.54
		1	51	19.19	19.29	19.29
		26	0	19.58	19.41	19.50
		26	13	19.48	19.44	19.58
		26	26	19.39	19.40	19.32
		52	0	19.47	19.42	19.43

*EIRP = Conducted + antenna gain

NR Band 7 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		500500	507000	513500
		Frequency (MHz)		2502.5	2535	2567.5
5M	pi/2 BPSK	1	0	26.27	26.30	26.26
		1	12	26.10	26.13	26.28
		1	24	25.80	25.81	25.85
		12	0	26.02	26.20	26.13
		12	6	26.01	26.07	26.12
		12	13	26.07	26.09	25.93
		25	0	26.04	26.08	25.97
	QPSK	1	0	23.12	23.16	23.16
		1	12	23.20	23.18	23.25
		1	24	22.81	22.80	22.89
		12	0	23.07	23.07	23.05
		12	6	23.15	23.06	23.05
		12	13	23.00	22.93	22.92
		25	0	23.07	23.03	23.00
	16QAM	1	0	23.10	23.21	23.23
		1	12	23.29	23.14	23.11
		1	24	22.81	22.73	22.76
		12	0	23.19	23.05	23.14
		12	6	23.16	23.04	23.03
		12	13	22.93	22.95	23.10
		25	0	23.05	22.92	23.09
	64QAM	1	0	22.55	22.53	22.67
		1	12	22.60	22.52	22.60
		1	24	22.18	22.30	22.24
		12	0	22.49	22.60	22.50
		12	6	22.41	22.40	22.55
		12	13	22.32	22.33	22.33
		25	0	22.41	22.32	22.32
	256QAM	1	0	19.55	19.52	19.66
		1	12	19.60	19.57	19.64
		1	24	19.26	19.30	19.20
		12	0	19.41	19.42	19.55
		12	6	19.47	19.46	19.56
		12	13	19.43	19.37	19.46
		25	0	19.50	19.36	19.50

*EIRP = Conducted + antenna gain

NR Band 38 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		51600	519000	522000
		Frequency (MHz)		2580	2595	2610
20M	pi/2 BPSK	1	0	25.78	25.70	25.63
		1	25	25.59	25.53	25.60
		1	50	25.50	25.66	25.51
		25	0	25.72	25.74	25.60
		25	12	25.68	25.66	25.59
		25	25	25.69	25.59	25.78
		51	0	25.56	25.58	25.39
	QPSK	1	0	22.75	22.60	22.61
		1	25	22.49	22.58	22.63
		1	50	22.58	22.67	22.53
		25	0	22.67	22.69	22.72
		25	12	22.58	22.69	22.75
		25	25	22.68	22.77	22.76
		51	0	22.43	22.43	22.45
	16QAM	1	0	22.56	22.48	22.56
		1	25	22.37	22.45	22.35
		1	50	22.28	22.29	22.29
		25	0	22.39	22.43	22.40
		25	12	22.40	22.41	22.41
		25	25	22.58	22.53	22.45
		51	0	22.20	22.19	22.34
	64QAM	1	0	22.23	22.23	22.19
		1	25	22.17	22.03	22.00
		1	50	22.01	22.15	22.14
		25	0	22.22	22.15	22.16
		25	12	22.26	22.27	22.17
		25	25	22.10	22.26	22.27
		51	0	21.90	22.05	21.97
	256QAM	1	0	19.13	19.25	19.20
		1	25	18.99	18.99	18.99
		1	50	19.03	19.04	19.01
		25	0	19.10	19.24	19.08
		25	12	19.16	19.19	19.09
		25	25	19.14	19.26	19.08
		51	0	18.94	19.07	18.89

*EIRP = Conducted + antenna gain

NR Band 38 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		515500	519000	522500
		Frequency (MHz)		2577.5	2595	2612.5
15M	pi/2 BPSK	1	0	25.75	25.66	25.76
		1	19	25.60	25.50	25.54
		1	37	25.63	25.66	25.52
		19	0	25.72	25.67	25.72
		19	9	25.69	25.66	25.69
		19	20	25.65	25.60	25.65
		38	0	25.50	25.42	25.56
	QPSK	1	0	22.64	22.69	22.71
		1	19	22.55	22.64	22.61
		1	37	22.66	22.64	22.58
		19	0	22.65	22.72	22.68
		19	9	22.59	22.72	22.70
		19	20	22.58	22.74	22.64
		38	0	22.44	22.45	22.50
	16QAM	1	0	22.42	22.39	22.40
		1	19	22.46	22.36	22.32
		1	37	22.47	22.39	22.35
		19	0	22.51	22.44	22.48
		19	9	22.56	22.57	22.57
		19	20	22.50	22.51	22.49
		38	0	22.18	22.20	22.18
	64QAM	1	0	22.21	22.16	22.20
		1	19	22.04	22.06	21.99
		1	37	22.13	22.04	22.02
		19	0	22.23	22.12	22.18
		19	9	22.28	22.12	22.25
		19	20	22.25	22.15	22.08
		38	0	21.89	21.89	21.97
	256QAM	1	0	19.09	19.13	19.24
		1	19	19.02	18.98	19.02
		1	37	19.10	19.09	19.06
		19	0	19.20	19.12	19.16
		19	9	19.16	19.27	19.11
		19	20	19.16	19.20	19.28
		38	0	18.99	18.89	19.01

*EIRP = Conducted + antenna gain

NR Band 38 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		515000	519000	523000
		Frequency (MHz)		2575	2595	2615
10M	pi/2 BPSK	1	0	25.74	25.63	25.59
		1	12	25.66	25.52	25.59
		1	23	25.53	25.49	25.56
		12	0	25.68	25.74	25.71
		12	6	25.63	25.60	25.69
		12	12	25.64	25.64	25.67
		24	0	25.50	25.46	25.45
	QPSK	1	0	22.62	22.59	22.58
		1	12	22.68	22.52	22.64
		1	23	22.59	22.50	22.58
		12	0	22.70	22.62	22.70
		12	6	22.63	22.62	22.71
		12	12	22.68	22.67	22.71
		24	0	22.40	22.47	22.40
	16QAM	1	0	22.40	22.47	22.43
		1	12	22.44	22.28	22.39
		1	23	22.39	22.43	22.35
		12	0	22.52	22.53	22.44
		12	6	22.46	22.41	22.38
		12	12	22.58	22.54	22.46
		24	0	22.33	22.21	22.30
	64QAM	1	0	22.14	22.08	22.20
		1	12	22.06	22.04	22.05
		1	23	21.99	22.09	22.18
		12	0	22.25	22.10	22.18
		12	6	22.10	22.17	22.15
		12	12	22.14	22.26	22.27
		24	0	22.07	22.04	22.02
	256QAM	1	0	19.14	19.28	19.14
		1	12	19.15	19.00	19.12
		1	23	19.04	18.99	19.15
		12	0	19.08	19.18	19.15
		12	6	19.27	19.14	19.21
		12	12	19.21	19.09	19.08
		24	0	19.05	18.88	19.01

*EIRP = Conducted + antenna gain

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		509202	518598	528000
		Frequency (MHz)		2546.01	2592.99	2640
100M	pi/2 BPSK	1	0	25.90	25.86	25.95
		1	136	25.73	25.79	25.71
		1	272	25.30	25.22	25.39
		136	0	25.80	26.00	25.94
		136	68	25.81	25.93	25.97
		136	136	25.65	25.79	25.68
		273	0	25.70	25.84	25.74
	QPSK	1	0	22.85	22.99	22.85
		1	136	22.83	22.78	22.78
		1	272	22.38	22.27	22.31
		136	0	22.99	22.89	22.87
		136	68	22.83	22.89	22.81
		136	136	22.74	22.67	22.75
		273	0	22.74	22.72	22.77
	16QAM	1	0	22.60	22.65	22.73
		1	136	22.58	22.61	22.50
		1	272	22.14	22.16	22.20
		136	0	22.79	22.75	22.71
		136	68	22.66	22.63	22.76
		136	136	22.43	22.54	22.54
		273	0	22.62	22.59	22.66
	64QAM	1	0	22.47	22.43	22.45
		1	136	22.32	22.22	22.35
		1	272	21.88	21.78	21.78
		136	0	22.49	22.32	22.47
		136	68	22.47	22.48	22.38
		136	136	22.18	22.18	22.11
		273	0	22.25	22.21	22.36
	256QAM	1	0	19.50	19.35	19.32
		1	136	19.24	19.20	19.20
		1	272	18.78	18.71	18.81
		136	0	19.47	19.45	19.42
		136	68	19.37	19.31	19.46
		136	136	19.19	19.15	19.22
		273	0	19.33	19.35	19.27

*EIRP = Conducted + antenna gain

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		508200	518598	528996
		Frequency (MHz)		2541	2592.99	2644.98
90M	pi/2 BPSK	1	0	25.94	26.00	25.95
		1	122	25.78	25.90	25.73
		1	244	25.25	25.26	25.26
		122	0	25.83	25.96	25.93
		122	61	25.90	25.88	25.92
		122	122	25.72	25.64	25.70
		245	0	25.89	25.85	25.86
	QPSK	1	0	22.99	22.90	22.90
		1	122	22.80	22.76	22.89
		1	244	22.25	22.30	22.24
		122	0	22.80	22.93	22.91
		122	61	22.99	22.87	22.98
		122	122	22.73	22.73	22.67
		245	0	22.84	22.79	22.85
	16QAM	1	0	22.78	22.77	22.75
		1	122	22.50	22.55	22.69
		1	244	22.19	22.13	22.20
		122	0	22.61	22.71	22.77
		122	61	22.77	22.66	22.78
		122	122	22.56	22.55	22.49
		245	0	22.54	22.54	22.56
	64QAM	1	0	22.36	22.48	22.43
		1	122	22.25	22.30	22.35
		1	244	21.86	21.78	21.77
		122	0	22.31	22.48	22.45
		122	61	22.48	22.39	22.37
		122	122	22.30	22.10	22.14
		245	0	22.40	22.37	22.25
	256QAM	1	0	19.40	19.49	19.33
		1	122	19.25	19.27	19.29
		1	244	18.84	18.76	18.74
		122	0	19.45	19.49	19.39
		122	61	19.43	19.33	19.40
		122	122	19.10	19.24	19.20
		245	0	19.38	19.31	19.25

*EIRP = Conducted + antenna gain

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		507204	518598	529998
		Frequency (MHz)		2536.02	2592.99	2649.99
80M	pi/2 BPSK	1	0	25.95	25.92	25.99
		1	108	25.85	25.79	25.74
		1	216	25.34	25.22	25.26
		108	0	25.99	25.98	25.85
		108	54	25.83	25.91	25.83
		108	108	25.80	25.71	25.79
		217	0	25.87	25.88	25.74
	QPSK	1	0	22.87	22.94	22.99
		1	108	22.89	22.82	22.75
		1	216	22.30	22.33	22.30
		108	0	22.99	22.93	22.91
		108	54	22.85	23.00	22.97
		108	108	22.60	22.79	22.66
		217	0	22.74	22.74	22.73
	16QAM	1	0	22.77	22.76	22.65
		1	108	22.61	22.62	22.55
		1	216	22.10	22.06	22.03
		108	0	22.76	22.72	22.78
		108	54	22.71	22.72	22.67
		108	108	22.58	22.60	22.60
		217	0	22.66	22.66	22.68
	64QAM	1	0	22.32	22.39	22.48
		1	108	22.34	22.29	22.37
		1	216	21.88	21.86	21.81
		108	0	22.33	22.46	22.37
		108	54	22.45	22.45	22.42
		108	108	22.23	22.10	22.22
		217	0	22.26	22.20	22.39
	256QAM	1	0	19.31	19.44	19.31
		1	108	19.40	19.34	19.28
		1	216	18.73	18.85	18.77
		108	0	19.45	19.32	19.45
		108	54	19.38	19.49	19.44
		108	108	19.27	19.21	19.27
		217	0	19.39	19.37	19.25

*EIRP = Conducted + antenna gain

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		505200	518598	531996
		Frequency (MHz)		2526	2592.99	2659.98
60M	pi/2 BPSK	1	0	25.99	25.81	25.82
		1	81	25.83	25.72	25.73
		1	161	25.25	25.26	25.25
		81	0	25.83	25.87	25.84
		81	40	25.82	25.81	26.00
		81	81	25.77	25.64	25.67
		162	0	25.76	25.89	25.77
	QPSK	1	0	22.88	22.88	22.91
		1	81	22.86	22.77	22.78
		1	161	22.27	22.27	22.26
		81	0	22.86	22.89	22.93
		81	40	22.99	22.83	22.81
		81	81	22.69	22.78	22.69
		162	0	22.77	22.75	22.78
	16QAM	1	0	22.70	22.71	22.66
		1	81	22.51	22.64	22.52
		1	161	22.20	22.16	22.19
		81	0	22.75	22.61	22.73
		81	40	22.66	22.66	22.69
		81	81	22.48	22.56	22.52
		162	0	22.56	22.66	22.67
	64QAM	1	0	22.42	22.32	22.30
		1	81	22.21	22.24	22.32
		1	161	21.90	21.70	21.75
		81	0	22.46	22.37	22.45
		81	40	22.33	22.39	22.39
		81	81	22.29	22.28	22.10
		162	0	22.22	22.30	22.33
	256QAM	1	0	19.40	19.30	19.49
		1	81	19.27	19.23	19.23
		1	161	18.70	18.90	18.85
		81	0	19.43	19.41	19.33
		81	40	19.42	19.38	19.43
		81	81	19.17	19.10	19.18
		162	0	19.30	19.33	19.36

*EIRP = Conducted + antenna gain

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		504204	518598	532998
		Frequency (MHz)		2521.02	2592.99	2664.99
50M	pi/2 BPSK	1	0	25.87	25.81	25.99
		1	66	25.78	25.87	25.80
		1	132	25.30	25.35	25.32
		66	0	25.95	25.92	25.90
		66	33	25.95	25.90	25.91
		66	66	25.76	25.80	25.68
		133	0	25.88	25.89	25.88
	QPSK	1	0	22.80	22.98	22.95
		1	66	22.76	22.74	22.70
		1	132	22.26	22.20	22.28
		66	0	22.93	22.80	22.91
		66	33	22.81	22.91	22.89
		66	66	22.66	22.61	22.61
		133	0	22.75	22.71	22.89
	16QAM	1	0	22.78	22.65	22.75
		1	66	22.54	22.61	22.66
		1	132	22.13	22.16	22.00
		66	0	22.67	22.75	22.72
		66	33	22.62	22.64	22.67
		66	66	22.43	22.42	22.54
		133	0	22.50	22.59	22.52
	64QAM	1	0	22.44	22.49	22.45
		1	66	22.26	22.24	22.39
		1	132	21.73	21.89	21.75
		66	0	22.43	22.44	22.33
		66	33	22.32	22.46	22.45
		66	66	22.15	22.19	22.25
		133	0	22.39	22.22	22.35
	256QAM	1	0	19.48	19.30	19.45
		1	66	19.26	19.38	19.23
		1	132	18.81	18.79	18.77
		66	0	19.31	19.48	19.48
		66	33	19.36	19.40	19.37
		66	66	19.23	19.20	19.30
		133	0	19.29	19.26	19.26

*EIRP = Conducted + antenna gain

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		503202	518598	534000
		Frequency (MHz)		2516.01	2592.99	2670
40M	pi/2 BPSK	1	0	25.87	25.94	25.91
		1	53	25.78	25.85	25.81
		1	105	25.36	25.29	25.39
		53	0	25.82	25.88	25.82
		53	26	25.97	25.93	25.85
		53	53	25.60	25.61	25.67
		106	0	25.87	25.70	25.90
	QPSK	1	0	22.96	22.82	22.82
		1	53	22.88	22.79	22.81
		1	105	22.38	22.20	22.25
		53	0	22.99	22.98	22.81
		53	26	22.86	23.00	22.94
		53	53	22.77	22.68	22.67
		106	0	22.86	22.86	22.72
	16QAM	1	0	22.67	22.68	22.78
		1	53	22.59	22.60	22.65
		1	105	22.09	22.02	22.13
		53	0	22.73	22.67	22.77
		53	26	22.77	22.77	22.76
		53	53	22.47	22.58	22.54
		106	0	22.54	22.65	22.56
	64QAM	1	0	22.46	22.36	22.35
		1	53	22.29	22.28	22.21
		1	105	21.87	21.84	21.81
		53	0	22.34	22.32	22.48
		53	26	22.43	22.49	22.41
		53	53	22.10	22.29	22.10
		106	0	22.39	22.29	22.35
	256QAM	1	0	19.39	19.30	19.37
		1	53	19.36	19.20	19.33
		1	105	18.85	18.79	18.85
		53	0	19.41	19.48	19.39
		53	26	19.49	19.45	19.36
		53	53	19.16	19.13	19.17
		106	0	19.39	19.35	19.22

*EIRP = Conducted + antenna gain

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		501204	518598	535998
		Frequency (MHz)		2506.02	2592.99	2679.99
20M	pi/2 BPSK	1	0	25.91	25.99	25.80
		1	25	25.78	25.87	25.71
		1	50	25.23	25.31	25.36
		25	0	25.96	25.88	25.87
		25	12	25.85	25.86	25.97
		25	25	25.74	25.68	25.73
		51	0	25.75	25.83	25.78
	QPSK	1	0	22.80	22.86	22.96
		1	25	22.86	22.84	22.74
		1	50	22.39	22.24	22.20
		25	0	22.96	23.00	22.89
		25	12	22.86	23.00	22.84
		25	25	22.78	22.73	22.65
		51	0	22.76	22.88	22.84
	16QAM	1	0	22.74	22.70	22.63
		1	25	22.53	22.60	22.53
		1	50	22.15	22.01	22.07
		25	0	22.78	22.72	22.61
		25	12	22.68	22.80	22.63
		25	25	22.57	22.47	22.54
		51	0	22.57	22.70	22.52
	64QAM	1	0	22.40	22.42	22.50
		1	25	22.24	22.25	22.29
		1	50	21.84	21.74	21.73
		25	0	22.35	22.46	22.47
		25	12	22.44	22.31	22.36
		25	25	22.16	22.18	22.14
		51	0	22.25	22.34	22.33
	256QAM	1	0	19.45	19.45	19.43
		1	25	19.22	19.21	19.21
		1	50	18.89	18.81	18.74
		25	0	19.45	19.33	19.30
		25	12	19.33	19.31	19.45
		25	25	19.14	19.20	19.25
		51	0	19.21	19.31	19.26

*EIRP = Conducted + antenna gain

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		500700	518598	536496
		Frequency (MHz)		2503.5	2592.99	2682.48
15M	pi/2 BPSK	1	0	25.94	25.87	25.87
		1	19	25.74	25.77	25.73
		1	37	25.24	25.20	25.38
		19	0	25.85	25.86	25.95
		19	9	25.86	25.94	25.93
		19	20	25.80	25.80	25.60
		38	0	25.83	25.78	25.80
	QPSK	1	0	22.94	22.88	22.83
		1	19	22.89	22.90	22.78
		1	37	22.35	22.28	22.39
		19	0	22.86	22.90	22.89
		19	9	22.85	22.83	22.97
		19	20	22.73	22.78	22.68
		38	0	22.75	22.71	22.72
	16QAM	1	0	22.67	22.66	22.60
		1	19	22.51	22.56	22.69
		1	37	22.15	22.18	22.11
		19	0	22.66	22.72	22.78
		19	9	22.62	22.67	22.77
		19	20	22.48	22.57	22.47
		38	0	22.62	22.50	22.68
	64QAM	1	0	22.45	22.46	22.48
		1	19	22.37	22.30	22.35
		1	37	21.80	21.83	21.77
		19	0	22.30	22.31	22.40
		19	9	22.40	22.44	22.44
		19	20	22.13	22.25	22.25
		38	0	22.29	22.26	22.30
	256QAM	1	0	19.39	19.30	19.40
		1	19	19.31	19.38	19.35
		1	37	18.90	18.83	18.88
		19	0	19.34	19.47	19.37
		19	9	19.38	19.33	19.37
		19	20	19.18	19.25	19.28
		38	0	19.35	19.27	19.23

*EIRP = Conducted + antenna gain

FCC NR Band 41 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		500202	518598	537000
		Frequency (MHz)		2501.01	2592.99	2685
10M	pi/2 BPSK	1	0	25.99	25.88	25.95
		1	12	25.74	25.83	25.80
		1	23	25.32	25.33	25.20
		12	0	25.85	26.00	25.92
		12	6	25.91	25.92	25.86
		12	12	25.69	25.60	25.80
		24	0	25.85	25.71	25.75
	QPSK	1	0	22.91	22.98	22.86
		1	12	22.82	22.84	22.90
		1	23	22.31	22.23	22.23
		12	0	22.81	22.88	22.99
		12	6	22.96	22.92	22.89
		12	12	22.61	22.80	22.69
		24	0	22.72	22.78	22.72
	16QAM	1	0	22.73	22.75	22.67
		1	12	22.63	22.51	22.69
		1	23	22.02	22.13	22.16
		12	0	22.78	22.70	22.60
		12	6	22.60	22.65	22.80
		12	12	22.54	22.41	22.46
		24	0	22.56	22.68	22.51
	64QAM	1	0	22.32	22.35	22.49
		1	12	22.33	22.21	22.31
		1	23	21.86	21.87	21.85
		12	0	22.40	22.30	22.46
		12	6	22.31	22.44	22.50
		12	12	22.20	22.25	22.25
		24	0	22.20	22.25	22.31
	256QAM	1	0	19.36	19.38	19.50
		1	12	19.23	19.37	19.21
		1	23	18.73	18.84	18.73
		12	0	19.47	19.40	19.35
		12	6	19.44	19.42	19.49
		12	12	19.22	19.30	19.12
		24	0	19.23	19.27	19.28

*EIRP = Conducted + antenna gain

NR Band 66 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		346000	349000	352000
		Frequency (MHz)		1730	1745	1760
40M	pi/2 BPSK	1	0	27.08	27.03	27.09
		1	108	27.52	27.44	27.39
		1	215	27.45	27.37	27.54
		108	0	27.38	27.36	27.39
		108	53	27.31	27.26	27.42
		108	107	27.37	27.25	27.31
		216	0	27.39	27.40	27.33
	QPSK	1	0	23.97	24.10	23.97
		1	108	24.53	24.38	24.48
		1	215	24.44	24.37	24.45
		108	0	24.44	24.42	24.35
		108	53	24.42	24.30	24.31
		108	107	24.42	24.32	24.29
		216	0	24.38	24.34	24.30
	16QAM	1	0	23.89	23.87	23.83
		1	108	24.30	24.32	24.31
		1	215	24.33	24.16	24.25
		108	0	24.15	24.15	24.04
		108	53	24.17	24.17	24.07
		108	107	24.21	24.24	24.16
		216	0	24.21	24.12	24.22
	64QAM	1	0	23.63	23.63	23.51
		1	108	23.85	23.98	23.94
		1	215	23.88	24.03	24.04
		108	0	23.79	23.75	23.76
		108	53	23.90	23.92	23.75
		108	107	23.82	23.94	23.81
		216	0	23.79	23.94	23.87
	256QAM	1	0	20.44	20.60	20.48
		1	108	21.01	21.04	21.04
		1	215	21.00	20.91	20.91
		108	0	20.90	20.79	20.81
		108	53	20.76	20.92	20.74
		108	107	20.88	20.74	20.89
		216	0	20.76	20.85	20.78

*EIRP = Conducted + antenna gain

NR Band 66 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		344000	349000	354000
		Frequency (MHz)		1720	1745	1770
20M	pi/2 BPSK	1	0	27.13	27.11	27.02
		1	53	27.54	27.36	27.41
		1	105	27.43	27.46	27.34
		53	0	27.33	27.37	27.25
		53	27	27.42	27.25	27.37
		53	53	27.41	27.26	27.36
		106	0	27.24	27.43	27.43
	QPSK	1	0	23.98	24.04	24.08
		1	53	24.39	24.39	24.52
		1	105	24.46	24.36	24.39
		53	0	24.36	24.29	24.25
		53	27	24.28	24.43	24.41
		53	53	24.39	24.41	24.37
		106	0	24.42	24.34	24.42
	16QAM	1	0	23.79	23.77	23.78
		1	53	24.17	24.23	24.17
		1	105	24.31	24.15	24.18
		53	0	24.07	24.04	24.22
		53	27	24.10	24.24	24.06
		53	53	24.05	24.19	24.04
		106	0	24.22	24.21	24.11
	64QAM	1	0	23.61	23.60	23.52
		1	53	23.85	23.88	23.93
		1	105	23.91	23.95	23.97
		53	0	23.77	23.92	23.94
		53	27	23.90	23.92	23.77
		53	53	23.93	23.79	23.91
		106	0	23.81	23.94	23.75
	256QAM	1	0	20.56	20.49	20.57
		1	53	20.89	20.85	20.95
		1	105	21.04	20.84	20.96
		53	0	20.85	20.89	20.81
		53	27	20.88	20.75	20.81
		53	53	20.83	20.92	20.88
		106	0	20.79	20.88	20.86

*EIRP = Conducted + antenna gain

NR Band 66 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		343500	349000	354500
		Frequency (MHz)		1717.5	1745	1772.5
15M	pi/2 BPSK	1	0	27.01	27.10	27.12
		1	39	27.49	27.40	27.38
		1	78	27.48	27.37	27.40
		39	0	27.41	27.25	27.33
		39	19	27.32	27.31	27.27
		39	40	27.25	27.28	27.38
		79	0	27.25	27.32	27.26
	QPSK	1	0	24.00	23.98	24.12
		1	39	24.39	24.52	24.53
		1	78	24.50	24.47	24.34
		39	0	24.36	24.40	24.33
		39	19	24.37	24.32	24.33
		39	40	24.37	24.35	24.29
		79	0	24.41	24.32	24.29
	16QAM	1	0	23.94	23.88	23.84
		1	39	24.30	24.19	24.32
		1	78	24.15	24.33	24.22
		39	0	24.07	24.22	24.09
		39	19	24.10	24.16	24.05
		39	40	24.24	24.07	24.20
		79	0	24.05	24.09	24.16
	64QAM	1	0	23.61	23.47	23.46
		1	39	23.98	23.92	23.84
		1	78	24.02	24.04	23.85
		39	0	23.84	23.93	23.78
		39	19	23.75	23.92	23.90
		39	40	23.87	23.93	23.85
		79	0	23.93	23.88	23.89
	256QAM	1	0	20.55	20.45	20.45
		1	39	21.01	21.03	20.87
		1	78	20.93	20.96	21.02
		39	0	20.87	20.86	20.79
		39	19	20.75	20.90	20.84
		39	40	20.76	20.90	20.86
		79	0	20.74	20.81	20.90

*EIRP = Conducted + antenna gain

NR Band 66 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		343000	349000	355000
		Frequency (MHz)		1715	1745	1775
10M	pi/2 BPSK	1	0	27.03	27.00	27.06
		1	26	27.45	27.42	27.50
		1	51	27.50	27.43	27.36
		26	0	27.41	27.32	27.24
		26	13	27.33	27.33	27.36
		26	26	27.33	27.38	27.30
		52	0	27.41	27.29	27.36
	QPSK	1	0	24.14	24.07	24.04
		1	26	24.47	24.34	24.43
		1	51	24.40	24.34	24.42
		26	0	24.33	24.27	24.30
		26	13	24.41	24.38	24.25
		26	26	24.36	24.36	24.40
		52	0	24.25	24.44	24.29
	16QAM	1	0	23.81	23.79	23.83
		1	26	24.29	24.33	24.18
		1	51	24.16	24.34	24.20
		26	0	24.15	24.06	24.14
		26	13	24.16	24.16	24.20
		26	26	24.23	24.17	24.14
		52	0	24.08	24.12	24.14
	64QAM	1	0	23.49	23.55	23.52
		1	26	23.91	23.92	23.93
		1	51	23.87	23.88	23.93
		26	0	23.84	23.86	23.89
		26	13	23.74	23.87	23.76
		26	26	23.79	23.77	23.91
		52	0	23.93	23.82	23.90
	256QAM	1	0	20.52	20.56	20.45
		1	26	21.00	20.98	21.01
		1	51	20.84	20.97	20.94
		26	0	20.85	20.87	20.80
		26	13	20.89	20.86	20.79
		26	26	20.79	20.85	20.94
		52	0	20.85	20.78	20.86

*EIRP = Conducted + antenna gain

NR Band 66 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		342500	349000	355500
		Frequency (MHz)		1712.5	1745	1777.5
5M	pi/2 BPSK	1	0	27.14	27.03	26.96
		1	12	27.42	27.34	27.41
		1	24	27.37	27.36	27.51
		12	0	27.36	27.31	27.43
		12	6	27.35	27.40	27.31
		12	13	27.29	27.34	27.24
		25	0	27.33	27.24	27.41
	QPSK	1	0	24.05	24.11	24.02
		1	12	24.39	24.43	24.48
		1	24	24.43	24.46	24.36
		12	0	24.26	24.32	24.28
		12	6	24.36	24.34	24.38
		12	13	24.37	24.36	24.28
		25	0	24.44	24.39	24.31
	16QAM	1	0	23.76	23.92	23.86
		1	12	24.17	24.23	24.18
		1	24	24.17	24.34	24.33
		12	0	24.13	24.17	24.06
		12	6	24.04	24.20	24.05
		12	13	24.08	24.16	24.17
		25	0	24.06	24.20	24.07
	64QAM	1	0	23.63	23.63	23.58
		1	12	24.03	23.84	23.87
		1	24	23.99	23.85	24.01
		12	0	23.80	23.79	23.83
		12	6	23.85	23.89	23.79
		12	13	23.81	23.90	23.75
		25	0	23.94	23.80	23.81
	256QAM	1	0	20.64	20.50	20.58
		1	12	20.84	20.87	20.95
		1	24	20.96	20.98	21.03
		12	0	20.83	20.84	20.87
		12	6	20.93	20.77	20.76
		12	13	20.91	20.85	20.90
		25	0	20.92	20.79	20.92

*EIRP = Conducted + antenna gain

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		650000	656000	662000
		Frequency (MHz)		3750	3840	3930
100M	pi/2 BPSK	1	0	26.11	26.10	26.11
		1	136	26.15	26.30	26.16
		1	272	26.15	26.11	26.13
		136	0	26.18	26.08	26.01
		136	68	26.15	26.01	26.21
		136	136	26.16	26.19	26.05
		273	0	26.07	26.05	26.20
	QPSK	1	0	23.04	23.12	23.15
		1	136	23.28	23.15	23.13
		1	272	23.10	23.20	23.18
		136	0	23.19	23.19	23.08
		136	68	23.14	23.21	23.11
		136	136	23.15	23.05	23.05
		273	0	23.19	23.11	23.16
	16QAM	1	0	22.90	22.89	23.01
		1	136	23.02	23.08	23.07
		1	272	22.87	22.89	22.87
		136	0	22.83	22.90	23.01
		136	68	23.01	22.94	22.91
		136	136	22.95	22.91	22.84
		273	0	22.96	23.01	22.92
	64QAM	1	0	22.68	22.67	22.56
		1	136	22.79	22.81	22.72
		1	272	22.55	22.70	22.64
		136	0	22.70	22.63	22.67
		136	68	22.57	22.53	22.58
		136	136	22.68	22.53	22.65
		273	0	22.63	22.62	22.59
	256QAM	1	0	19.63	19.52	19.51
		1	136	19.67	19.68	19.61
		1	272	19.54	19.56	19.64
		136	0	19.51	19.66	19.55
		136	68	19.54	19.64	19.59
		136	136	19.70	19.69	19.54
		273	0	19.53	19.54	19.51

*EIRP = Conducted + antenna gain

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		649668	656000	662332
		Frequency (MHz)		3745.02	3840	3934.98
90M	pi/2 BPSK	1	0	26.11	26.02	26.17
		1	122	26.24	26.26	26.23
		1	244	26.06	26.09	26.13
		122	0	26.08	26.21	26.04
		122	61	26.15	26.05	26.12
		122	122	26.05	26.18	26.07
		245	0	26.19	26.06	26.21
	QPSK	1	0	23.18	23.16	23.07
		1	122	23.26	23.27	23.29
		1	244	23.17	23.16	23.08
		122	0	23.01	23.04	23.16
		122	61	23.06	23.19	23.10
		122	122	23.04	23.20	23.04
		245	0	23.16	23.19	23.11
	16QAM	1	0	22.82	22.93	22.99
		1	122	22.99	23.00	23.09
		1	244	22.85	22.84	23.01
		122	0	22.88	22.94	22.97
		122	61	22.83	22.89	22.85
		122	122	22.92	22.88	22.90
		245	0	22.99	22.82	22.86
	64QAM	1	0	22.64	22.70	22.58
		1	122	22.61	22.74	22.68
		1	244	22.54	22.53	22.53
		122	0	22.53	22.64	22.52
		122	61	22.65	22.63	22.68
		122	122	22.71	22.56	22.69
		245	0	22.58	22.62	22.66
	256QAM	1	0	19.65	19.52	19.61
		1	122	19.62	19.76	19.65
		1	244	19.51	19.54	19.59
		122	0	19.54	19.56	19.52
		122	61	19.62	19.60	19.62
		122	122	19.71	19.58	19.70
		245	0	19.52	19.58	19.60

*EIRP = Conducted + antenna gain

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		649334	656000	662666
		Frequency (MHz)		3740.01	3840	3939.99
80M	pi/2 BPSK	1	0	26.15	26.10	26.11
		1	108	26.25	26.18	26.29
		1	216	26.13	26.18	26.05
		108	0	26.21	26.13	26.12
		108	54	26.16	26.03	26.15
		108	108	26.11	26.16	26.02
		217	0	26.06	26.17	26.14
	QPSK	1	0	23.08	23.08	23.10
		1	108	23.19	23.12	23.27
		1	216	23.13	23.08	23.03
		108	0	23.03	23.19	23.09
		108	54	23.12	23.21	23.12
		108	108	23.06	23.08	23.21
		217	0	23.20	23.18	23.03
	16QAM	1	0	22.93	22.89	22.85
		1	108	22.99	23.09	23.04
		1	216	22.98	22.84	22.98
		108	0	22.90	22.94	22.96
		108	54	22.97	22.93	22.97
		108	108	22.94	22.86	22.87
		217	0	22.93	22.83	23.01
	64QAM	1	0	22.67	22.68	22.64
		1	108	22.70	22.73	22.66
		1	216	22.65	22.51	22.61
		108	0	22.58	22.69	22.62
		108	54	22.61	22.55	22.55
		108	108	22.54	22.65	22.65
		217	0	22.61	22.65	22.67
	256QAM	1	0	19.67	19.64	19.69
		1	108	19.69	19.81	19.69
		1	216	19.71	19.54	19.51
		108	0	19.67	19.70	19.54
		108	54	19.58	19.67	19.67
		108	108	19.55	19.60	19.60
		217	0	19.59	19.52	19.59

*EIRP = Conducted + antenna gain

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		648668	656000	663332
		Frequency (MHz)		3730.02	3840	3949.98
60M	pi/2 BPSK	1	0	26.14	26.21	26.19
		1	81	26.24	26.25	26.27
		1	161	26.10	26.11	26.02
		81	0	26.05	26.10	26.21
		81	40	26.19	26.17	26.12
		81	81	26.17	26.04	26.21
		162	0	26.12	26.17	26.01
	QPSK	1	0	23.16	23.19	23.17
		1	81	23.27	23.21	23.26
		1	161	23.04	23.05	23.13
		81	0	23.08	23.06	23.05
		81	40	23.07	23.03	23.12
		81	81	23.16	23.06	23.07
		162	0	23.06	23.01	23.06
	16QAM	1	0	23.00	22.90	22.86
		1	81	23.02	23.08	23.01
		1	161	22.81	22.89	22.82
		81	0	23.01	22.96	23.00
		81	40	22.83	22.85	22.98
		81	81	22.83	22.85	22.96
		162	0	22.88	23.00	22.90
	64QAM	1	0	22.62	22.68	22.53
		1	81	22.71	22.74	22.70
		1	161	22.59	22.62	22.62
		81	0	22.71	22.55	22.54
		81	40	22.62	22.56	22.60
		81	81	22.53	22.70	22.60
		162	0	22.61	22.53	22.64
	256QAM	1	0	19.56	19.60	19.62
		1	81	19.76	19.61	19.78
		1	161	19.56	19.51	19.54
		81	0	19.55	19.55	19.67
		81	40	19.63	19.59	19.69
		81	81	19.71	19.67	19.66
		162	0	19.56	19.60	19.59

*EIRP = Conducted + antenna gain

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		648334	656000	663666
		Frequency (MHz)		3725.01	3840	3954.99
50M	pi/2 BPSK	1	0	26.12	26.14	26.13
		1	66	26.24	26.15	26.13
		1	132	26.08	26.03	26.07
		66	0	26.03	26.01	26.20
		66	33	26.03	26.06	26.18
		66	66	26.04	26.07	26.19
		133	0	26.15	26.12	26.10
	QPSK	1	0	23.10	23.07	23.08
		1	66	23.13	23.18	23.14
		1	132	23.12	23.11	23.15
		66	0	23.11	23.21	23.03
		66	33	23.04	23.07	23.21
		66	66	23.02	23.04	23.08
		133	0	23.11	23.04	23.10
	16QAM	1	0	22.94	22.99	22.83
		1	66	22.99	23.11	23.08
		1	132	22.92	22.98	22.91
		66	0	22.83	22.99	22.82
		66	33	22.97	22.92	22.82
		66	66	23.01	22.82	23.00
		133	0	22.96	22.81	22.85
	64QAM	1	0	22.61	22.57	22.51
		1	66	22.64	22.64	22.76
		1	132	22.60	22.57	22.62
		66	0	22.63	22.55	22.59
		66	33	22.59	22.57	22.56
		66	66	22.67	22.52	22.64
		133	0	22.65	22.59	22.66
	256QAM	1	0	19.71	19.62	19.68
		1	66	19.70	19.62	19.66
		1	132	19.64	19.64	19.64
		66	0	19.69	19.68	19.62
		66	33	19.52	19.68	19.70
		66	66	19.69	19.58	19.64
		133	0	19.65	19.68	19.57

*EIRP = Conducted + antenna gain

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		648000	656000	664000
		Frequency (MHz)		3720	3840	3960
40M	pi/2 BPSK	1	0	26.04	26.08	26.18
		1	53	26.20	26.12	26.11
		1	105	26.09	26.18	26.09
		53	0	26.01	26.21	26.16
		53	26	26.19	26.13	26.12
		53	53	26.12	26.21	26.06
		106	0	26.04	26.13	26.01
	QPSK	1	0	23.03	23.01	23.03
		1	53	23.11	23.27	23.17
		1	105	23.09	23.17	23.01
		53	0	23.21	23.18	23.04
		53	26	23.09	23.02	23.18
		53	53	23.17	23.05	23.07
		106	0	23.07	23.09	23.20
	16QAM	1	0	22.99	22.81	22.91
		1	53	23.02	22.99	22.92
		1	105	22.86	22.93	22.92
		53	0	22.86	22.82	22.84
		53	26	22.93	22.84	22.87
		53	53	22.96	22.84	22.92
		106	0	22.92	23.01	22.86
	64QAM	1	0	22.67	22.60	22.51
		1	53	22.80	22.65	22.70
		1	105	22.54	22.55	22.58
		53	0	22.51	22.66	22.58
		53	26	22.68	22.61	22.67
		53	53	22.54	22.57	22.70
		106	0	22.58	22.69	22.64
	256QAM	1	0	19.61	19.60	19.59
		1	53	19.66	19.66	19.77
		1	105	19.61	19.55	19.53
		53	0	19.52	19.60	19.68
		53	26	19.65	19.58	19.55
		53	53	19.60	19.51	19.51
		106	0	19.52	19.66	19.51

*EIRP = Conducted + antenna gain

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		647334	656000	664666
		Frequency (MHz)		3710.01	3840	3969.99
20M	pi/2 BPSK	1	0	26.19	26.18	26.13
		1	25	26.20	26.22	26.22
		1	50	26.20	26.10	26.06
		25	0	26.21	26.21	26.13
		25	12	26.11	26.06	26.03
		25	25	26.06	26.07	26.02
		51	0	26.14	26.02	26.13
	QPSK	1	0	23.18	23.01	23.14
		1	25	23.30	23.24	23.13
		1	50	23.05	23.14	23.15
		25	0	23.15	23.06	23.16
		25	12	23.03	23.02	23.20
		25	25	23.18	23.16	23.06
		51	0	23.11	23.10	23.15
	16QAM	1	0	23.00	22.95	22.87
		1	25	22.95	22.95	23.01
		1	50	22.92	22.85	22.87
		25	0	23.00	22.87	22.84
		25	12	22.99	22.98	23.01
		25	25	22.93	22.88	22.91
		51	0	22.84	22.92	22.90
	64QAM	1	0	22.51	22.58	22.64
		1	25	22.68	22.70	22.71
		1	50	22.60	22.66	22.63
		25	0	22.62	22.61	22.61
		25	12	22.59	22.61	22.54
		25	25	22.60	22.57	22.68
		51	0	22.61	22.66	22.70
	256QAM	1	0	19.69	19.66	19.59
		1	25	19.74	19.81	19.81
		1	50	19.71	19.57	19.62
		25	0	19.65	19.63	19.63
		25	12	19.65	19.61	19.68
		25	25	19.58	19.66	19.70
		51	0	19.57	19.70	19.62

*EIRP = Conducted + antenna gain

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		647168	656000	664832
		Frequency (MHz)		3707.52	3840	3972.48
15M	pi/2 BPSK	1	0	26.15	26.17	26.14
		1	19	26.15	26.22	26.15
		1	37	26.13	26.08	26.04
		19	0	26.04	26.21	26.04
		19	9	26.07	26.02	26.18
		19	20	26.19	26.06	26.13
		38	0	26.07	26.16	26.01
	QPSK	1	0	23.10	23.12	23.20
		1	19	23.20	23.29	23.12
		1	37	23.05	23.05	23.08
		19	0	23.04	23.01	23.13
		19	9	23.19	23.18	23.15
		19	20	23.10	23.06	23.21
		38	0	23.15	23.10	23.17
	16QAM	1	0	22.99	22.87	22.89
		1	19	22.99	23.10	23.04
		1	37	23.01	22.99	22.84
		19	0	22.82	22.86	22.95
		19	9	22.87	22.95	22.95
		19	20	22.94	22.91	22.95
		38	0	23.00	22.92	22.85
	64QAM	1	0	22.52	22.63	22.63
		1	19	22.65	22.63	22.81
		1	37	22.53	22.59	22.69
		19	0	22.59	22.61	22.65
		19	9	22.60	22.70	22.62
		19	20	22.60	22.61	22.63
		38	0	22.62	22.71	22.59
	256QAM	1	0	19.62	19.57	19.57
		1	19	19.80	19.75	19.65
		1	37	19.62	19.57	19.52
		19	0	19.56	19.67	19.69
		19	9	19.65	19.60	19.55
		19	20	19.66	19.58	19.55
		38	0	19.53	19.57	19.61

*EIRP = Conducted + antenna gain

NR Band 77 (SCS 30kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		647000	656000	665000
		Frequency (MHz)		3705	3840	3975
10M	pi/2 BPSK	1	0	26.15	26.04	26.20
		1	12	26.17	26.26	26.16
		1	23	26.05	26.13	26.08
		12	0	26.17	26.06	26.09
		12	6	26.14	26.08	26.12
		12	12	26.02	26.19	26.14
		24	0	26.05	26.20	26.12
	QPSK	1	0	23.17	23.06	23.04
		1	12	23.21	23.11	23.22
		1	23	23.01	23.18	23.21
		12	0	23.03	23.14	23.04
		12	6	23.14	23.08	23.14
		12	12	23.12	23.19	23.14
		24	0	23.04	23.13	23.01
	16QAM	1	0	22.90	23.01	22.92
		1	12	22.97	22.96	22.97
		1	23	22.97	22.87	23.01
		12	0	22.89	22.97	22.97
		12	6	22.85	22.82	22.93
		12	12	22.83	22.98	22.97
		24	0	22.83	22.87	22.96
	64QAM	1	0	22.52	22.57	22.60
		1	12	22.65	22.78	22.73
		1	23	22.51	22.59	22.67
		12	0	22.66	22.65	22.70
		12	6	22.65	22.54	22.67
		12	12	22.69	22.54	22.69
		24	0	22.64	22.57	22.60
	256QAM	1	0	19.53	19.67	19.67
		1	12	19.66	19.67	19.78
		1	23	19.64	19.66	19.53
		12	0	19.58	19.56	19.58
		12	6	19.58	19.65	19.69
		12	12	19.60	19.59	19.62
		24	0	19.63	19.57	19.62

*EIRP = Conducted + antenna gain

ERP Power (dBm)

NR Band 71 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		134600	136100	137600
		Frequency (MHz)		673	680.5	688
20M	pi/2 BPSK	1	0	23.83	23.81	23.84
		1	53	23.53	23.54	23.63
		1	105	23.49	23.65	23.52
		53	0	23.62	23.66	23.67
		53	27	23.66	23.52	23.66
		53	53	23.48	23.59	23.60
		106	0	23.58	23.49	23.67
	QPSK	1	0	20.76	20.81	20.79
		1	53	20.47	20.62	20.60
		1	105	20.58	20.67	20.52
		53	0	20.58	20.52	20.54
		53	27	20.55	20.67	20.53
		53	53	20.49	20.65	20.52
		106	0	20.47	20.56	20.63
	16QAM	1	0	20.65	20.47	20.53
		1	53	20.46	20.38	20.46
		1	105	20.31	20.41	20.35
		53	0	20.33	20.41	20.34
		53	27	20.36	20.47	20.30
		53	53	20.27	20.47	20.37
		106	0	20.41	20.42	20.28
	64QAM	1	0	20.19	20.19	20.20
		1	53	19.98	20.05	20.02
		1	105	20.01	19.98	20.09
		53	0	20.13	20.07	20.03
		53	27	20.17	20.16	20.08
		53	53	19.97	20.01	20.14
		106	0	20.04	19.97	20.14
	256QAM	1	0	17.32	17.32	17.35
		1	53	17.09	17.09	17.04
		1	105	17.02	17.04	17.06
		53	0	17.05	16.98	17.05
		53	27	17.14	17.11	16.98
		53	53	17.02	17.16	17.13
		106	0	17.02	17.02	17.16

*ERP = Conducted + antenna gain - 2.15

NR Band 71 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		134100	136100	138100
		Frequency (MHz)		670.5	680.5	690.5
15M	pi/2 BPSK	1	0	23.76	23.85	23.71
		1	39	23.65	23.63	23.59
		1	78	23.58	23.52	23.61
		39	0	23.67	23.63	23.54
		39	19	23.66	23.61	23.66
		39	40	23.61	23.49	23.56
		79	0	23.59	23.54	23.63
	QPSK	1	0	20.80	20.85	20.85
		1	39	20.53	20.62	20.64
		1	78	20.56	20.56	20.49
		39	0	20.56	20.66	20.65
		39	19	20.58	20.50	20.53
		39	40	20.48	20.55	20.65
		79	0	20.65	20.47	20.55
	16QAM	1	0	20.47	20.51	20.64
		1	39	20.42	20.45	20.38
		1	78	20.39	20.39	20.30
		39	0	20.28	20.36	20.35
		39	19	20.40	20.34	20.42
		39	40	20.47	20.38	20.31
		79	0	20.30	20.28	20.27
	64QAM	1	0	20.30	20.21	20.27
		1	39	20.07	20.01	20.09
		1	78	20.11	20.11	19.99
		39	0	20.07	20.06	20.11
		39	19	20.03	19.99	20.06
		39	40	20.03	20.12	20.10
		79	0	20.02	20.03	20.10
	256QAM	1	0	17.20	17.30	17.24
		1	39	17.15	17.03	16.98
		1	78	17.08	17.00	17.00
		39	0	17.17	17.04	17.07
		39	19	17.17	17.11	17.05
		39	40	17.03	17.03	17.01
		79	0	17.06	17.15	17.13

*ERP = Conducted + antenna gain - 2.15

NR Band 71 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133600	136100	138600
		Frequency (MHz)		668	680.5	693
10M	pi/2 BPSK	1	0	23.67	23.81	23.74
		1	26	23.67	23.62	23.54
		1	51	23.65	23.48	23.47
		26	0	23.64	23.56	23.54
		26	13	23.53	23.61	23.53
		26	26	23.50	23.53	23.61
		52	0	23.65	23.62	23.49
	QPSK	1	0	20.75	20.87	20.82
		1	26	20.60	20.49	20.55
		1	51	20.49	20.48	20.49
		26	0	20.64	20.49	20.48
		26	13	20.63	20.57	20.48
		26	26	20.53	20.66	20.66
		52	0	20.64	20.51	20.47
	16QAM	1	0	20.59	20.66	20.47
		1	26	20.29	20.43	20.33
		1	51	20.32	20.32	20.35
		26	0	20.38	20.35	20.46
		26	13	20.29	20.45	20.27
		26	26	20.32	20.32	20.40
		52	0	20.31	20.37	20.29
	64QAM	1	0	20.29	20.17	20.34
		1	26	20.17	20.10	20.10
		1	51	19.98	20.17	20.04
		26	0	20.01	20.11	20.10
		26	13	20.01	20.02	19.99
		26	26	20.01	20.10	20.15
		52	0	20.05	20.00	20.11
	256QAM	1	0	17.22	17.17	17.20
		1	26	17.07	17.17	17.09
		1	51	17.01	17.05	16.97
		26	0	16.97	17.01	17.14
		26	13	17.14	17.07	17.12
		26	26	17.16	17.09	17.11
		52	0	17.14	17.03	17.02

*ERP = Conducted + antenna gain - 2.15

NR Band 71 (SCS 15kHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133100	136100	139100
		Frequency (MHz)		665.5	680.5	695.5
5M	pi/2 BPSK	1	0	23.70	23.70	23.78
		1	12	23.55	23.52	23.54
		1	24	23.66	23.49	23.57
		12	0	23.64	23.66	23.50
		12	6	23.67	23.66	23.63
		12	13	23.56	23.48	23.48
		25	0	23.51	23.55	23.65
	QPSK	1	0	20.87	20.78	20.74
		1	12	20.50	20.54	20.64
		1	24	20.61	20.57	20.63
		12	0	20.67	20.50	20.48
		12	6	20.50	20.50	20.50
		12	13	20.53	20.60	20.54
		25	0	20.66	20.67	20.54
	16QAM	1	0	20.55	20.52	20.48
		1	12	20.34	20.43	20.47
		1	24	20.37	20.44	20.44
		12	0	20.38	20.45	20.27
		12	6	20.40	20.30	20.28
		12	13	20.38	20.28	20.30
		25	0	20.45	20.33	20.45
	64QAM	1	0	20.28	20.29	20.19
		1	12	20.12	20.04	20.04
		1	24	20.15	20.11	20.13
		12	0	20.03	20.07	20.05
		12	6	19.99	19.97	20.11
		12	13	20.02	20.02	20.01
		25	0	20.11	19.97	20.09
	256QAM	1	0	17.33	17.21	17.26
		1	12	17.07	17.00	17.00
		1	24	17.08	17.04	17.17
		12	0	17.08	17.08	17.04
		12	6	17.07	17.11	17.15
		12	13	17.17	17.14	17.16
		25	0	17.10	17.04	17.10

*ERP = Conducted + antenna gain - 2.15

4.2 Modulation Characteristics Measurement

4.2.1 Limits of Modulation Characteristics

N/A

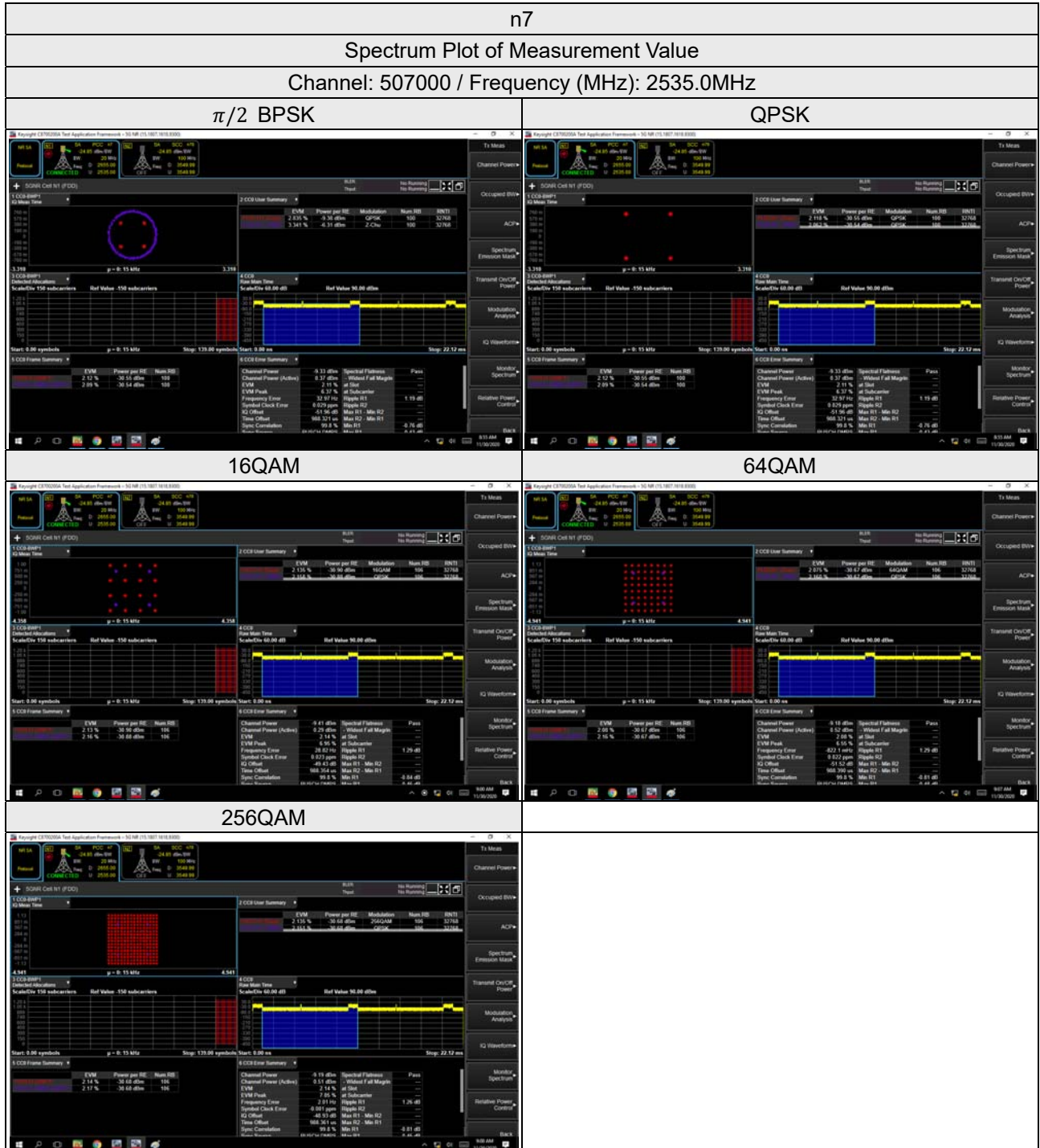
4.2.2 Test Procedure

Connect the EUT to Communication Simulator via the antenna connector, The frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

4.2.3 Test Setup



4.2.4 Test Results

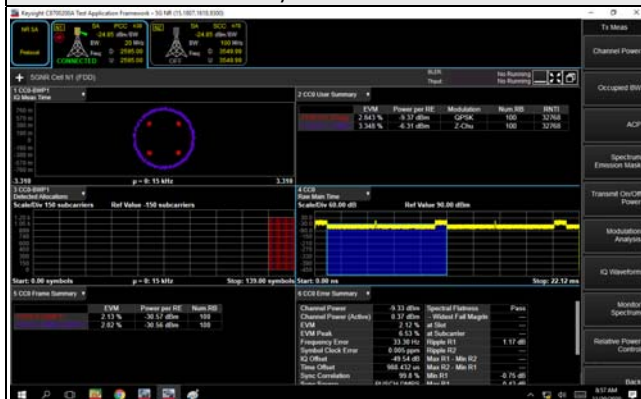


n38

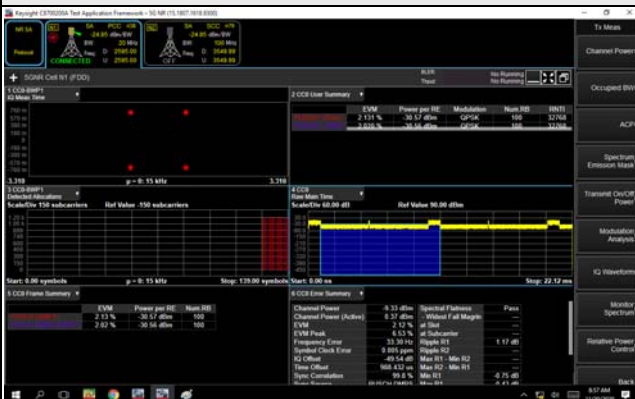
Spectrum Plot of Measurement Value

Channel: 507000 / Frequency (MHz): 2535.0MHz

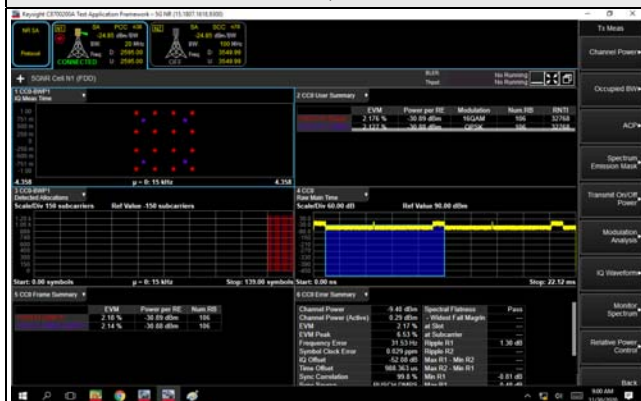
$\pi/2$ BPSK



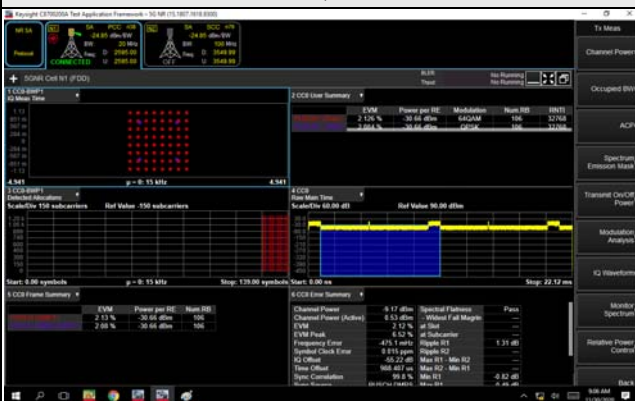
QPSK



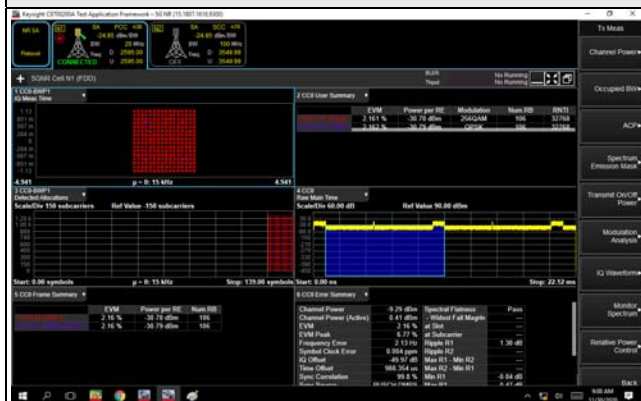
16QAM



64QAM



256QAM



n41

Spectrum Plot of Measurement Value

Channel: 518598 / Frequency (MHz): 2592.99MHz

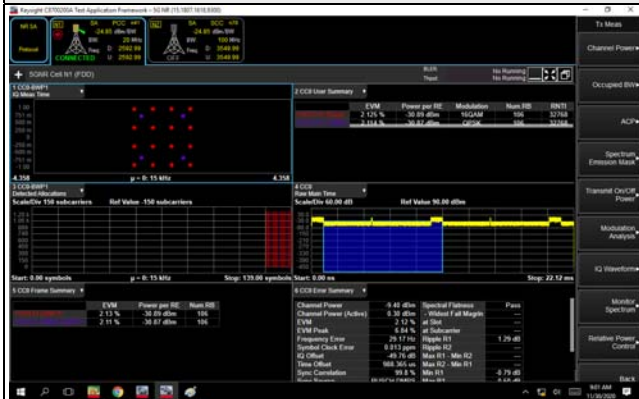
$\pi/2$ BPSK



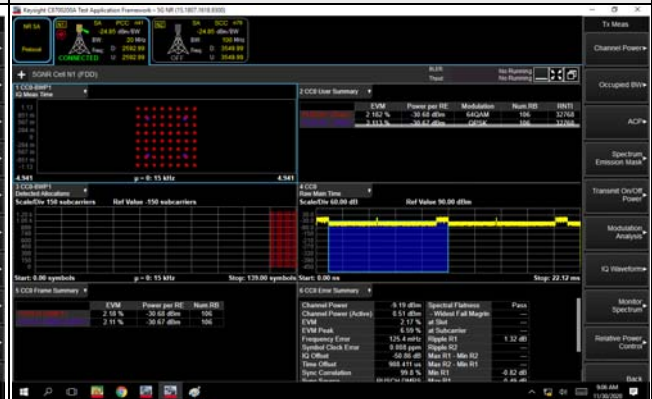
QPSK



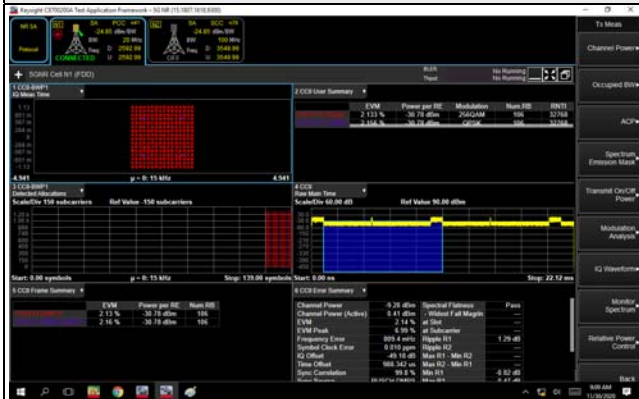
16QAM



64QAM



256QAM



n66

Spectrum Plot of Measurement Value

Channel: 349000 / Frequency (MHz): 1745.0MHz

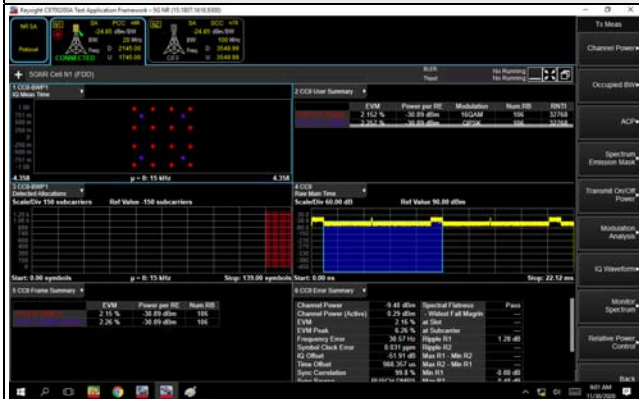
$\pi/2$ BPSK



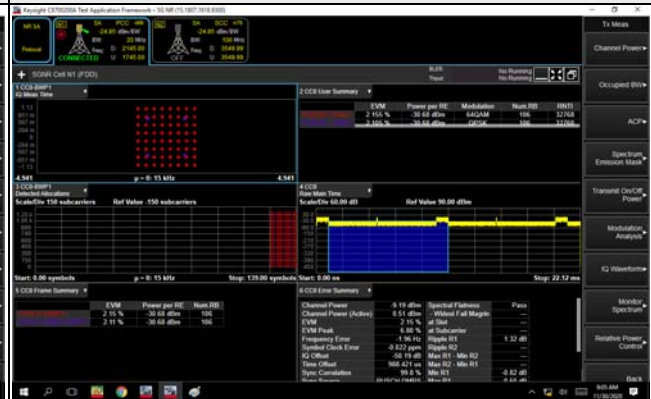
QPSK



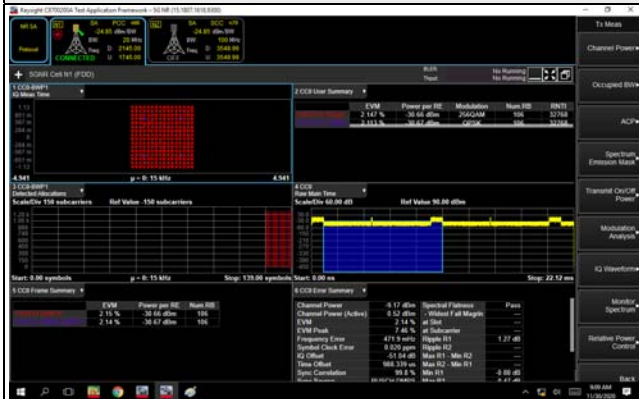
16QAM



64QAM



256QAM



n71

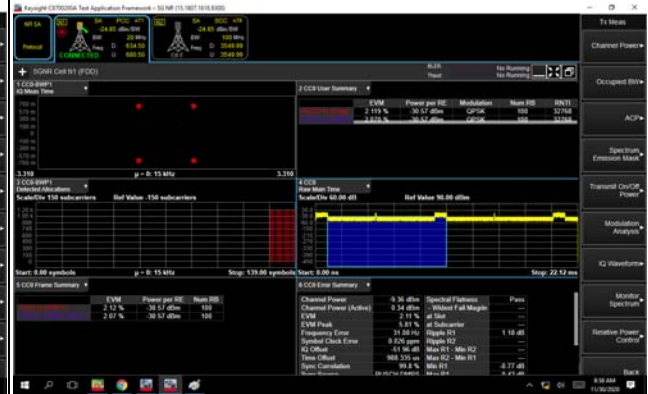
Spectrum Plot of Measurement Value

Channel: 136100 / Frequency (MHz): 680.5MHz

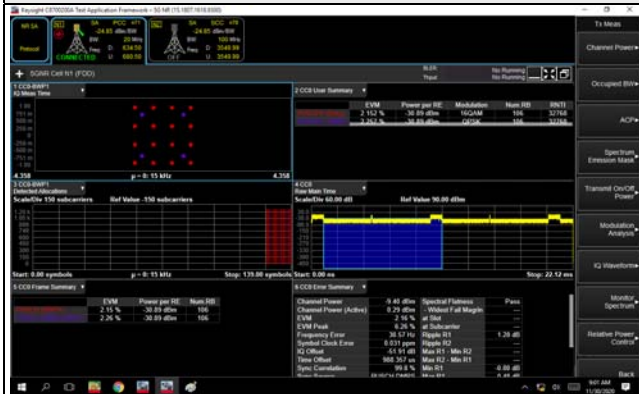
$\pi/2$ BPSK



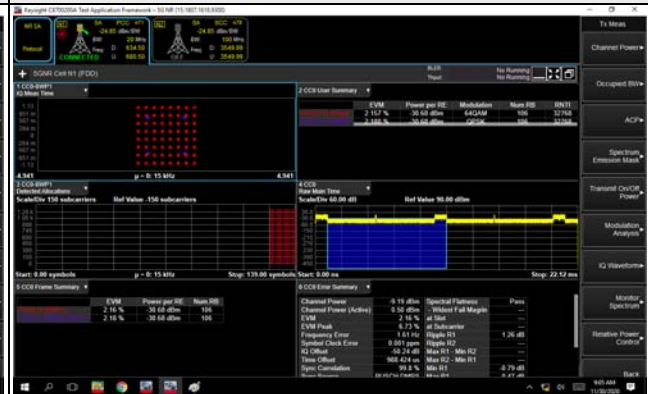
QPSK



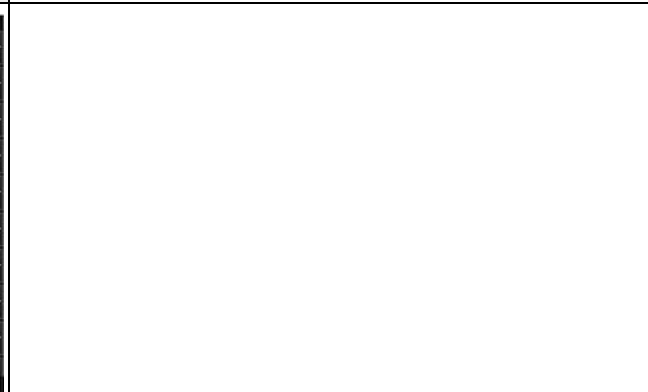
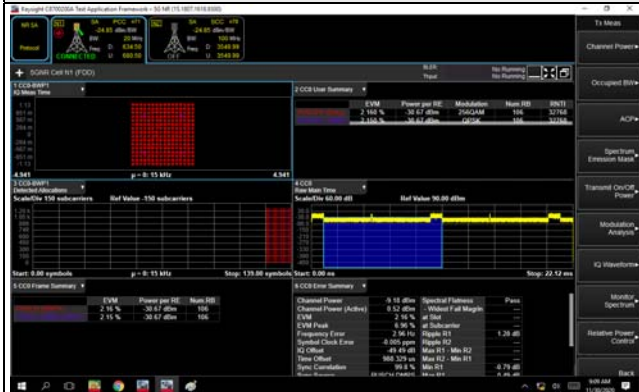
16QAM



64QAM



256QAM

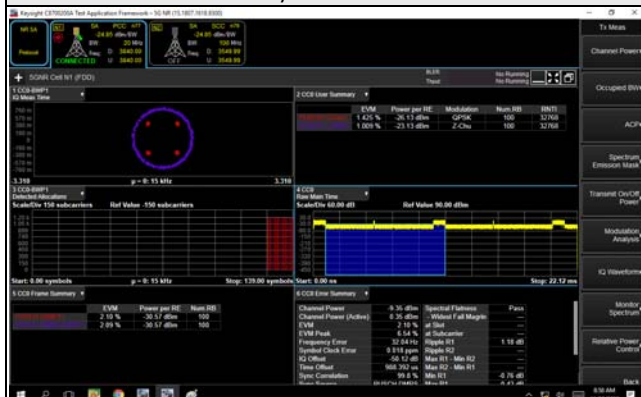


n77

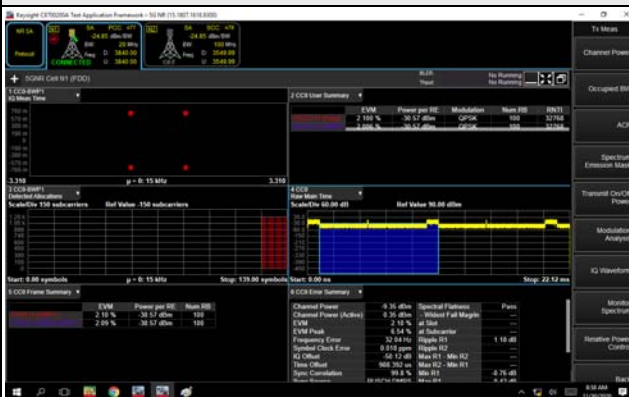
Spectrum Plot of Measurement Value

Channel: 656000 / Frequency (MHz): 3840.00MHz

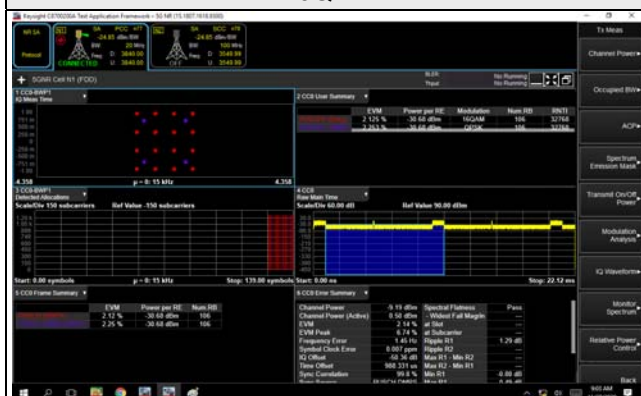
$\pi/2$ BPSK



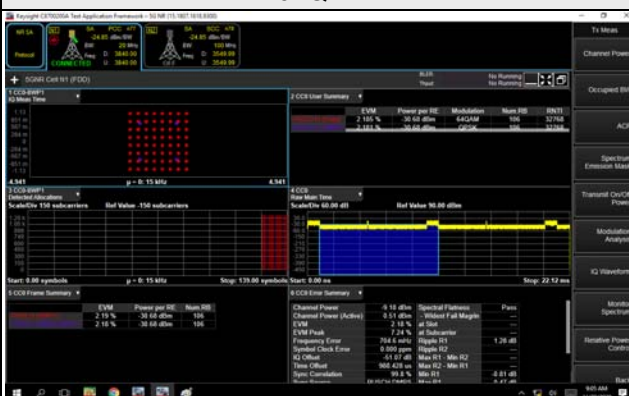
QPSK



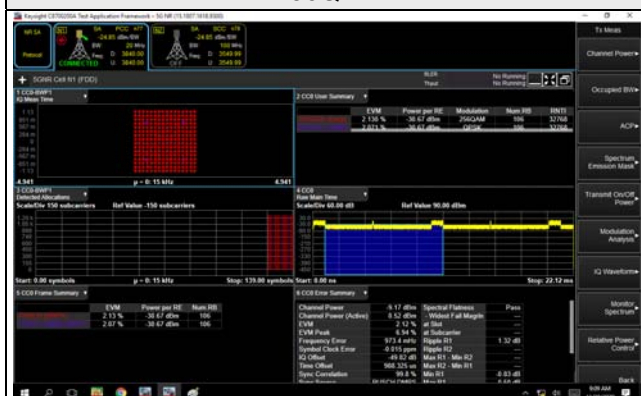
16QAM



64QAM



256QAM



4.3 Frequency Stability Measurement

4.3.1 Limits of Frequency Stability Measurement

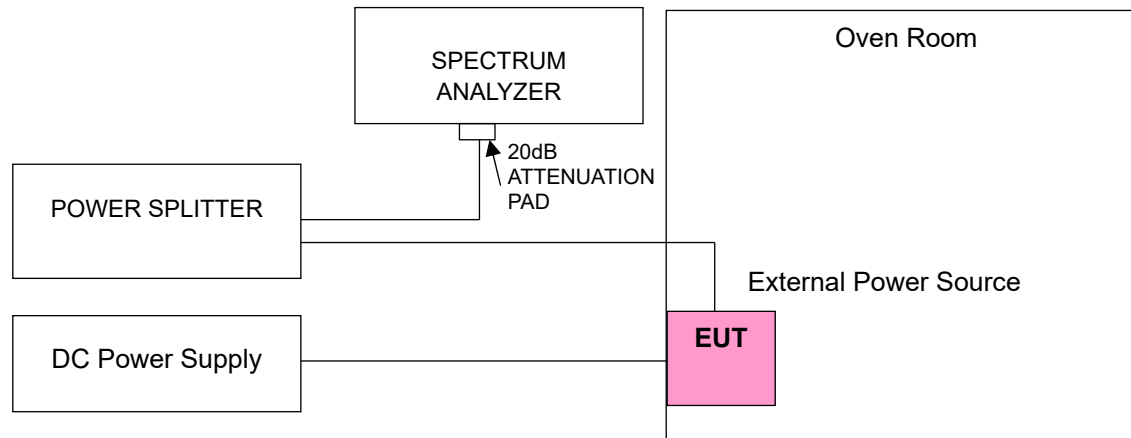
According to the FCC part 2.1055 shall be tested the frequency stability. The rule is defined that "The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block." The test extreme voltage is according to the 2.1055(d)(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and the extreme temperature rule is comply with specification of EUT $-30^{\circ}\text{C} \sim 50^{\circ}\text{C}$.

4.3.2 Test Procedure

- 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.

Note: The frequency error was recorded frequency error from the communication simulator.

4.3.3 Test Setup



4.3.4 Test Results

Frequency Error vs. Voltage

Voltage (Volts)	n7			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2502.500002	0.001	2567.500000	0.001
4.2	2502.500003	0.001	2567.500000	0.001
4.4	2502.500002	0.001	2567.500000	0.002

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n7			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2502.500003	0.001	2567.500000	0.001
-20	2502.500003	0.001	2567.500000	0.000
-10	2502.500003	0.001	2567.500000	0.001
0	2502.500002	0.001	2567.500000	0.001
10	2502.500004	0.001	2567.500000	0.000
20	2502.499997	-0.001	2567.500000	-0.001
30	2502.499997	-0.001	2567.500000	-0.001
40	2502.499998	-0.001	2567.500000	-0.001
50	2502.499998	-0.001	2567.500000	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n7			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2502.500002	0.001	2565.000004	0.002
4.2	2502.500004	0.002	2565.000002	0.001
4.4	2502.500003	0.001	2565.000001	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n7			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2505.000001	0.001	2565.000003	0.001
-20	2502.500001	0.001	2565.000004	0.001
-10	2502.500002	0.001	2565.000003	0.001
0	2502.500004	0.002	2565.000003	0.001
10	2502.500002	0.001	2565.000002	0.001
20	2502.499998	-0.001	2564.999996	-0.001
30	2502.499998	-0.001	2564.999997	-0.001
40	2502.499999	-0.001	2564.999998	-0.001
50	2502.499998	-0.001	2564.999997	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n7			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2507.500003	0.001	2562.500004	0.001
4.2	2507.500003	0.001	2562.500001	0.001
4.4	2507.500003	0.001	2562.500001	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n7			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2507.500002	0.001	2562.500003	0.001
-20	2507.500001	0.000	2562.500001	0.000
-10	2507.500003	0.001	2562.500003	0.001
0	2507.500003	0.001	2562.500004	0.002
10	2507.500002	0.001	2562.500002	0.001
20	2507.499996	-0.001	2562.499999	0.000
30	2507.499998	-0.001	2562.499999	-0.001
40	2507.499996	-0.001	2562.499998	-0.001
50	2507.499997	-0.001	2562.499998	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n7			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2510.000001	0.001	2560.000003	0.001
4.2	2510.000002	0.001	2560.000003	0.001
4.4	2510.000002	0.001	2560.000003	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n7			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2510.000004	0.001	2560.000003	0.001
-20	2510.000001	0.001	2560.000002	0.001
-10	2510.000002	0.001	2560.000004	0.001
0	2510.000002	0.001	2560.000003	0.001
10	2510.000002	0.001	2560.000004	0.001
20	2509.999997	-0.001	2559.999998	-0.001
30	2509.999999	0.000	2559.999997	-0.001
40	2509.999998	-0.001	2559.999998	-0.001
50	2509.999998	-0.001	2559.999996	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n38			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2575.000001	0.000	2615.000000	0.001
4.2	2575.000003	0.001	2615.000000	0.000
4.4	2575.000002	0.001	2615.000000	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n38			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2575.000002	0.001	2615.000000	0.000
-20	2575.000003	0.001	2615.000000	0.001
-10	2575.000001	0.001	2615.000000	0.001
0	2575.000003	0.001	2615.000000	0.001
10	2575.000001	0.000	2615.000000	0.001
20	2574.999998	-0.001	2615.000000	-0.001
30	2574.999997	-0.001	2615.000000	0.000
40	2574.999999	-0.001	2615.000000	-0.001
50	2574.999998	-0.001	2615.000000	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n38			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2577.500004	0.001	2612.500000	0.001
4.2	2577.500001	0.001	2612.500000	0.001
4.4	2577.500003	0.001	2612.500000	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n38			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2577.500004	0.001	2612.500000	0.001
-20	2577.500004	0.001	2612.500000	0.001
-10	2577.500001	0.000	2612.500000	0.001
0	2577.500003	0.001	2612.500000	0.001
10	2577.500004	0.001	2612.500000	0.001
20	2577.499999	0.000	2612.500000	-0.001
30	2577.499996	-0.002	2612.500000	-0.001
40	2577.499998	-0.001	2612.500000	-0.001
50	2577.499997	-0.001	2612.500000	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n38			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2580.000002	0.001	2610.000000	0.001
4.2	2580.000003	0.001	2610.000000	0.001
4.4	2580.000002	0.001	2610.000000	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n38			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2580.000002	0.001	2610.000000	0.001
-20	2580.000002	0.001	2610.000000	0.001
-10	2580.000002	0.001	2610.000000	0.001
0	2580.000004	0.002	2610.000000	0.001
10	2580.000002	0.001	2610.000000	0.001
20	2579.999999	-0.001	2610.000000	-0.001
30	2579.999998	-0.001	2610.000000	-0.001
40	2579.999998	-0.001	2610.000000	-0.001
50	2579.999998	-0.001	2610.000000	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n41			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2501.010003	0.001	2685.000000	0.001
4.2	2501.010004	0.001	2685.000000	0.001
4.4	2501.010003	0.001	2685.000000	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2501.010003	0.001	2685.000000	0.001
-20	2501.010004	0.001	2685.000000	0.000
-10	2501.010001	0.000	2685.000000	0.001
0	2501.010003	0.001	2685.000000	0.000
10	2501.010004	0.002	2685.000000	0.001
20	2501.009997	-0.001	2685.000000	-0.001
30	2501.009997	-0.001	2685.000000	-0.001
40	2501.009998	-0.001	2685.000000	-0.001
50	2501.009998	-0.001	2685.000000	0.000

Frequency Error vs. Voltage

Voltage (Volts)	n41			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2503.500003	0.001	2682.480000	0.001
4.2	2503.500003	0.001	2682.480000	0.001
4.4	2503.500001	0.000	2682.480000	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2503.500003	0.001	2682.480000	0.001
-20	2503.500003	0.001	2682.480000	0.001
-10	2503.500002	0.001	2682.480000	0.000
0	2503.500003	0.001	2682.480000	0.001
10	2503.500004	0.002	2682.480000	0.001
20	2503.499997	-0.001	2682.480000	-0.001
30	2503.499999	0.000	2682.480000	0.000
40	2503.499998	-0.001	2682.480000	-0.001
50	2503.499996	-0.001	2682.480000	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n41			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2506.020003	0.001	2679.990000	0.001
4.2	2506.020003	0.001	2679.990000	0.000
4.4	2506.020003	0.001	2679.990000	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2506.020001	0.001	2679.990000	0.001
-20	2506.020002	0.001	2679.990000	0.001
-10	2506.020002	0.001	2679.990000	0.001
0	2506.020004	0.001	2679.990000	0.001
10	2506.020001	0.001	2679.990000	0.001
20	2506.019999	-0.001	2679.990000	-0.001
30	2506.019998	-0.001	2679.990000	-0.001
40	2506.019997	-0.001	2679.990000	-0.001
50	2506.019996	-0.002	2679.990000	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n41			
	Channel Bandwidth: 40 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2516.010003	0.001	2670.000001	0.000
4.2	2516.010003	0.001	2670.000003	0.001
4.4	2516.010004	0.001	2670.000001	0.000

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth: 40 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2516.010003	0.001	2670.000002	0.001
-20	2516.010001	0.000	2670.000004	0.001
-10	2516.010003	0.001	2670.000002	0.001
0	2516.010002	0.001	2670.000002	0.001
10	2516.010002	0.001	2670.000001	0.000
20	2516.009996	-0.002	2669.999999	-0.001
30	2516.009998	-0.001	2669.999999	0.000
40	2516.009996	-0.002	2669.999998	-0.001
50	2516.009999	0.000	2669.999996	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n41			
	Channel Bandwidth: 50 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2521.020002	0.001	2664.990004	0.001
4.2	2521.020002	0.001	2664.990002	0.001
4.4	2521.020002	0.001	2664.990002	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth: 50 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2521.020003	0.001	2664.990003	0.001
-20	2521.020002	0.001	2664.990004	0.001
-10	2521.020003	0.001	2664.990001	0.000
0	2521.020004	0.002	2664.990003	0.001
10	2521.020001	0.000	2664.990002	0.001
20	2521.019999	0.000	2664.989996	-0.001
30	2521.019996	-0.001	2664.989999	-0.001
40	2521.019997	-0.001	2664.989998	-0.001
50	2521.019999	-0.001	2664.989999	0.000

Frequency Error vs. Voltage

Voltage (Volts)	n41			
	Channel Bandwidth: 60 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2526.000001	0.000	2659.980003	0.001
4.2	2526.000004	0.002	2659.980004	0.001
4.4	2526.000002	0.001	2659.980003	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth: 60 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2526.000003	0.001	2659.980002	0.001
-20	2526.000002	0.001	2659.980003	0.001
-10	2526.000001	0.001	2659.980002	0.001
0	2526.000002	0.001	2659.980002	0.001
10	2526.000002	0.001	2659.980002	0.001
20	2525.999997	-0.001	2659.979996	-0.001
30	2525.999998	-0.001	2659.979999	0.000
40	2525.999999	-0.001	2659.979997	-0.001
50	2525.999997	-0.001	2659.979998	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n41			
	Channel Bandwidth: 80 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2536.020002	0.001	2649.990003	0.001
4.2	2536.020002	0.001	2649.990002	0.001
4.4	2536.020001	0.000	2649.990001	0.000

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth: 80 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2536.020003	0.001	2649.990002	0.001
-20	2536.020002	0.001	2649.990002	0.001
-10	2536.020001	0.000	2649.990001	0.000
0	2536.020003	0.001	2649.990002	0.001
10	2536.020004	0.002	2649.990001	0.000
20	2536.019997	-0.001	2649.989999	-0.001
30	2536.019999	-0.001	2649.989999	-0.001
40	2536.019998	-0.001	2649.989998	-0.001
50	2536.019998	-0.001	2649.989997	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n41			
	Channel Bandwidth: 90 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2514.000002	0.001	2644.980003	0.001
4.2	2514.000002	0.001	2644.980004	0.001
4.4	2514.000002	0.001	2644.980001	0.000

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth: 90 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2514.000004	0.000	2644.980001	0.001
-20	2514.000004	0.002	2644.980001	0.001
-10	2514.000002	0.001	2644.980004	0.001
0	2514.000002	0.001	2644.980001	0.000
10	2514.000002	0.001	2644.980003	0.001
20	2513.999997	-0.001	2644.979998	-0.001
30	2513.999998	-0.001	2644.979999	0.000
40	2513.999998	-0.001	2644.979997	-0.001
50	2513.999999	-0.001	2644.979999	0.000

Frequency Error vs. Voltage

Voltage (Volts)	n41			
	Channel Bandwidth: 100 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2546.010002	0.001	2640.000003	0.001
4.2	2546.010004	0.001	2640.000001	0.000
4.4	2546.010002	0.001	2640.000003	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth: 100 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2546.010001	0.001	2640.000003	0.001
-20	2546.010004	0.002	2640.000003	0.001
-10	2546.010004	0.001	2640.000002	0.001
0	2546.010003	0.001	2640.000002	0.001
10	2546.010002	0.001	2640.000004	0.001
20	2546.009999	0.000	2639.999999	0.000
30	2546.009996	-0.002	2639.999996	-0.001
40	2546.009997	-0.001	2639.999997	-0.001
50	2546.009997	-0.001	2639.999996	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n66			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	1712.500001	0.001	1777.500000	0.001
4.2	1712.500002	0.001	1777.500000	0.002
4.4	1712.500001	0.001	1777.500000	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n66			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1712.500001	0.001	1777.500000	0.001
-20	1712.500002	0.001	1777.500000	0.001
-10	1712.500004	0.002	1777.500000	0.001
0	1712.500004	0.002	1777.500000	0.002
10	1712.500003	0.002	1777.500000	0.001
20	1712.499998	-0.001	1777.500000	-0.001
30	1712.499997	-0.002	1777.500000	-0.001
40	1712.499998	-0.001	1777.500000	-0.001
50	1712.499998	-0.001	1777.500000	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n66			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	1715.000002	0.001	1775.000003	0.002
4.2	1715.000003	0.002	1775.000004	0.002
4.4	1715.000003	0.001	1775.000002	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n66			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1715.000004	0.002	1775.000004	0.002
-20	1715.000001	0.001	1775.000003	0.002
-10	1715.000001	0.001	1775.000004	0.002
0	1715.000002	0.001	1775.000003	0.002
10	1715.000002	0.001	1775.000004	0.002
20	1714.999999	-0.001	1774.999997	-0.002
30	1714.999997	-0.002	1774.999996	-0.002
40	1714.999998	-0.001	1774.999999	-0.001
50	1714.999997	-0.002	1774.999996	-0.002

Frequency Error vs. Voltage

Voltage (Volts)	n66			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	1717.500001	0.001	1772.500004	0.002
4.2	1717.500001	0.001	1772.500004	0.002
4.4	1717.500002	0.001	1772.500002	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n66			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1717.500003	0.002	1772.500003	0.002
-20	1717.500004	0.002	1772.500002	0.001
-10	1717.500001	0.001	1772.500004	0.002
0	1717.500003	0.002	1772.500004	0.002
10	1717.500002	0.001	1772.500003	0.002
20	1717.499997	-0.002	1772.499998	-0.001
30	1717.499998	-0.001	1772.499998	-0.001
40	1717.499997	-0.002	1772.499998	-0.001
50	1717.499999	-0.001	1772.499998	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n66			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	1720.000004	0.002	1770.000002	0.001
4.2	1720.000003	0.002	1770.000001	0.001
4.4	1720.000003	0.002	1770.000003	0.002

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n66			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1720.000003	0.002	1770.000002	0.001
-20	1720.000003	0.002	1770.000002	0.001
-10	1720.000002	0.001	1770.000001	0.001
0	1720.000003	0.002	1770.000001	0.001
10	1720.000002	0.001	1770.000002	0.001
20	1719.999998	-0.001	1769.999997	-0.002
30	1719.999999	-0.001	1769.999996	-0.002
40	1719.999997	-0.002	1769.999997	-0.002
50	1719.999996	-0.002	1769.999996	-0.002

Frequency Error vs. Voltage

Voltage (Volts)	n66			
	Channel Bandwidth: 40 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	1730.000002	0.001	1760.000004	0.002
4.2	1730.000004	0.002	1760.000002	0.001
4.4	1730.000002	0.001	1760.000004	0.002

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n66			
	Channel Bandwidth: 40 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1730.000003	0.002	1760.000002	0.001
-20	1730.000004	0.002	1760.000002	0.001
-10	1730.000001	0.001	1760.000002	0.001
0	1730.000002	0.001	1760.000002	0.001
10	1730.000004	0.002	1760.000003	0.002
20	1729.999998	-0.001	1759.999996	-0.002
30	1729.999999	-0.001	1759.999997	-0.002
40	1729.999997	-0.002	1759.999999	-0.001
50	1729.999997	-0.002	1759.999997	-0.002

Frequency Error vs. Voltage

Voltage (Volts)	n71			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	665.500002	0.003	695.500000	0.005
4.2	665.500003	0.004	695.500000	0.002
4.4	665.500002	0.003	695.500000	0.004

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n71			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	665.500002	0.003	695.500000	0.002
-20	665.500002	0.004	695.500000	0.002
-10	665.500003	0.004	695.500000	0.006
0	665.500003	0.005	695.500000	0.005
10	665.500003	0.005	695.500000	0.003
20	665.499996	-0.006	695.500000	-0.005
30	665.499998	-0.002	695.500000	-0.004
40	665.499996	-0.006	695.500000	-0.005
50	665.499998	-0.003	695.500000	-0.002

Frequency Error vs. Voltage

Voltage (Volts)	n71			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	668.000001	0.002	693.000001	0.002
4.2	668.000002	0.003	693.000002	0.003
4.4	668.000004	0.006	693.000002	0.003

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n71			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	668.000002	0.003	693.000004	0.005
-20	668.000004	0.005	693.000003	0.004
-10	668.000002	0.002	693.000002	0.002
0	668.000003	0.005	693.000003	0.005
10	668.000002	0.004	693.000003	0.004
20	667.999998	-0.003	692.999999	-0.002
30	667.999997	-0.005	692.999998	-0.003
40	667.999999	-0.002	692.999998	-0.003
50	667.999996	-0.006	692.999998	-0.003

Frequency Error vs. Voltage

Voltage (Volts)	n71			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	670.500003	0.005	690.500004	0.005
4.2	670.500002	0.003	690.500004	0.005
4.4	670.500004	0.006	690.500003	0.004

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n71			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	670.500002	0.003	690.500004	0.005
-20	670.500002	0.004	690.500004	0.006
-10	670.500001	0.002	690.500001	0.002
0	670.500003	0.004	690.500004	0.005
10	670.500001	0.002	690.500004	0.005
20	670.499997	-0.004	690.499998	-0.002
30	670.499998	-0.003	690.499998	-0.003
40	670.499998	-0.003	690.499996	-0.006
50	670.499997	-0.004	690.499998	-0.003

Frequency Error vs. Voltage

Voltage (Volts)	n71			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	673.000002	0.003	688.000002	0.003
4.2	673.000003	0.004	688.000001	0.002
4.4	673.000002	0.004	688.000002	0.003

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n71			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	673.000001	0.002	688.000001	0.002
-20	673.000001	0.002	688.000003	0.004
-10	673.000002	0.003	688.000002	0.002
0	673.000003	0.004	688.000001	0.002
10	673.000004	0.005	688.000001	0.002
20	672.999997	-0.004	687.999998	-0.003
30	672.999996	-0.006	687.999999	-0.002
40	672.999998	-0.003	687.999997	-0.005
50	672.999999	-0.002	687.999998	-0.003

Frequency Error vs. Voltage

Voltage (Volts)	n77			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	3705.000002	0.001	3975.000000	0.000
4.2	3705.000002	0.000	3975.000000	0.001
4.4	3705.000004	0.001	3975.000000	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n77			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3705.000003	0.001	3975.000000	0.001
-20	3705.000003	0.001	3975.000000	0.001
-10	3705.000004	0.001	3975.000000	0.000
0	3705.000002	0.001	3975.000000	0.000
10	3705.000002	0.000	3975.000000	0.000
20	3704.999997	-0.001	3975.000000	0.000
30	3704.999998	-0.001	3975.000000	-0.001
40	3704.999999	0.000	3975.000000	0.000
50	3704.999997	-0.001	3975.000000	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n77			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	3707.520001	0.000	3972.480000	0.000
4.2	3707.520003	0.001	3972.480000	0.001
4.4	3707.520001	0.000	3972.480000	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n77			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3707.520003	0.001	3972.480000	0.001
-20	3707.520002	0.000	3972.480000	0.000
-10	3707.520003	0.001	3972.480000	0.001
0	3707.520003	0.001	3972.480000	0.000
10	3707.520004	0.001	3972.480000	0.001
20	3707.519998	-0.001	3972.480000	-0.001
30	3707.519998	0.000	3972.480000	-0.001
40	3707.519999	0.000	3972.480000	-0.001
50	3707.519999	0.000	3972.480000	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n77			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	3710.010001	0.000	3969.990000	0.001
4.2	3710.010004	0.001	3969.990000	0.001
4.4	3710.010002	0.001	3969.990000	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n77			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3710.010002	0.000	3969.990000	0.001
-20	3710.010001	0.000	3969.990000	0.000
-10	3710.010002	0.001	3969.990000	0.001
0	3710.010004	0.001	3969.990000	0.001
10	3710.010003	0.001	3969.990000	0.001
20	3710.009997	-0.001	3969.990000	-0.001
30	3710.009998	-0.001	3969.990000	-0.001
40	3710.009997	-0.001	3969.990000	-0.001
50	3710.009997	-0.001	3969.990000	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n77			
	Channel Bandwidth: 40 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	3720.000002	0.000	3960.000002	0.000
4.2	3720.000003	0.001	3960.000003	0.001
4.4	3720.000004	0.001	3960.000002	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n77			
	Channel Bandwidth: 40 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3720.000004	0.001	3960.000002	0.001
-20	3720.000003	0.001	3960.000003	0.001
-10	3720.000002	0.001	3960.000001	0.000
0	3720.000001	0.000	3960.000001	0.000
10	3720.000001	0.000	3960.000003	0.001
20	3719.999997	-0.001	3959.999999	0.000
30	3719.999997	-0.001	3959.999998	0.000
40	3719.999998	-0.001	3959.999997	-0.001
50	3719.999999	0.000	3959.999998	0.000

Frequency Error vs. Voltage

Voltage (Volts)	n77			
	Channel Bandwidth: 50 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	3725.010002	0.000	3954.990001	0.000
4.2	3725.010003	0.001	3954.990002	0.001
4.4	3725.010004	0.001	3954.990003	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n77			
	Channel Bandwidth: 50 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3725.010004	0.001	3954.990003	0.001
-20	3725.010002	0.000	3954.990003	0.001
-10	3725.010001	0.000	3954.990003	0.001
0	3725.010003	0.001	3954.990002	0.001
10	3725.010002	0.000	3954.990004	0.001
20	3725.009998	-0.001	3954.989997	-0.001
30	3725.009997	-0.001	3954.989998	0.000
40	3725.009998	-0.001	3954.989998	0.000
50	3725.009998	-0.001	3954.989998	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n77			
	Channel Bandwidth: 60 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	3730.020002	0.001	3949.980001	0.000
4.2	3730.020001	0.000	3949.980002	0.000
4.4	3730.020003	0.001	3949.980002	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n77			
	Channel Bandwidth: 60 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3730.020002	0.001	3949.980004	0.001
-20	3730.020002	0.001	3949.980004	0.001
-10	3730.020003	0.001	3949.980003	0.001
0	3730.020001	0.000	3949.980002	0.000
10	3730.020001	0.000	3949.980003	0.001
20	3730.019996	-0.001	3949.979997	-0.001
30	3730.019998	-0.001	3949.979998	-0.001
40	3730.019997	-0.001	3949.979998	0.000
50	3730.019998	-0.001	3949.979999	0.000

Frequency Error vs. Voltage

Voltage (Volts)	n77			
	Channel Bandwidth: 80 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	3740.010004	0.001	3939.990001	0.000
4.2	3740.010001	0.000	3939.990003	0.001
4.4	3740.010003	0.001	3939.990003	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n77			
	Channel Bandwidth: 80 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3740.010003	0.001	3939.990004	0.001
-20	3740.010003	0.001	3939.990002	0.001
-10	3740.010002	0.000	3939.990003	0.001
0	3740.010004	0.001	3939.990002	0.001
10	3740.010002	0.000	3939.990004	0.001
20	3740.009999	0.000	3939.989996	-0.001
30	3740.009999	0.000	3939.989998	-0.001
40	3740.009996	-0.001	3939.989999	0.000
50	3740.009996	-0.001	3939.989996	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n77			
	Channel Bandwidth: 90 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	3745.020003	0.001	3934.980003	0.001
4.2	3745.020002	0.001	3934.980003	0.001
4.4	3745.020001	0.000	3934.980001	0.000

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n77			
	Channel Bandwidth: 90 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3745.020002	0.001	3934.980003	0.001
-20	3745.020002	0.001	3934.980003	0.001
-10	3745.020003	0.001	3934.980004	0.001
0	3745.020002	0.001	3934.980004	0.001
10	3745.020003	0.001	3934.980003	0.001
20	3745.019997	-0.001	3934.979998	-0.001
30	3745.019998	0.000	3934.979997	-0.001
40	3745.019997	-0.001	3934.979997	-0.001
50	3745.019998	-0.001	3934.979997	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	n77			
	Channel Bandwidth: 100 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	3750.000001	0.000	3930.000003	0.001
4.2	3750.000003	0.001	3930.000004	0.001
4.4	3750.000001	0.000	3930.000004	0.001

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n77			
	Channel Bandwidth: 100 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3750.000002	0.000	3930.000003	0.001
-20	3750.000002	0.000	3930.000002	0.001
-10	3750.000003	0.001	3930.000002	0.001
0	3750.000003	0.001	3930.000001	0.000
10	3750.000002	0.001	3930.000002	0.001
20	3749.999997	-0.001	3929.999997	-0.001
30	3749.999997	-0.001	3929.999998	-0.001
40	3749.999998	-0.001	3929.999996	-0.001
50	3749.999996	-0.001	3929.999996	-0.001

4.4 Occupied Bandwidth Measurement

4.4.1 Limits of Occupied Bandwidth Measurement

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

4.4.2 Test Procedure

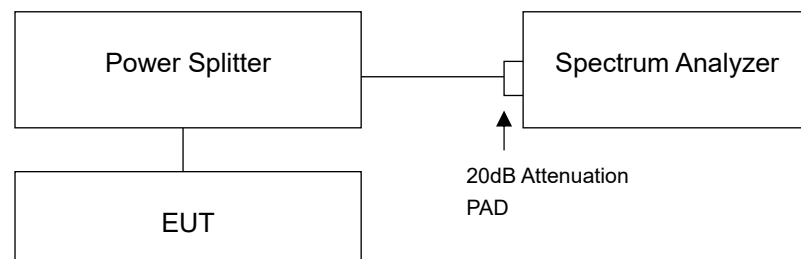
Occupied Bandwidth

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. Measurement method refers to ANSI C63.26 section 5.4.4.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

26dBc Bandwidth:

For the 26dBc bandwidth measurement method, please refer to section 5.4.3 of ANSI C63.26.

4.4.3 Test Setup



4.4.4 Test Result

Occupied Bandwidth

n7, Channel Bandwidth: 5MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
500500	2502.5	4.46	4.46	4.47	4.46	4.46
507000	2535.0	4.47	4.46	4.47	4.46	4.46
513500	2567.5	4.47	4.46	4.47	4.47	4.46
n7, Channel Bandwidth: 10MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
501000	2505.0	9.28	9.27	9.27	9.27	9.26
507000	2535.0	9.28	9.28	9.28	9.27	9.27
513000	2565.0	9.28	9.27	9.27	9.27	9.27
n7, Channel Bandwidth: 15MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
501500	2507.5	14.09	14.07	14.07	14.07	14.05
507000	2535.0	14.08	14.07	14.07	14.07	14.04
512500	2562.5	14.06	14.05	14.05	14.06	14.03
n7, Channel Bandwidth: 20MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
502000	2510.0	18.93	18.92	18.92	18.92	18.91
507000	2535.0	18.90	18.89	18.89	18.88	18.87
512000	2560.0	18.86	18.86	18.86	18.86	18.84

Spectrum Plot of Worst Value



n38, Channel Bandwidth: 10MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
515000	2575.0	8.57	8.56	8.57	8.56	8.56
519000	2595.0	8.57	8.56	8.57	8.56	8.56
523000	2615.0	8.57	8.56	8.57	8.56	8.56
n38, Channel Bandwidth: 15MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
515500	2577.5	13.54	13.54	13.54	13.53	13.53
519000	2595.0	13.54	13.54	13.54	13.53	13.54
522500	2612.5	13.54	13.54	13.54	13.53	13.53
n38, Channel Bandwidth: 20MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
516000	2580.0	18.20	18.20	18.18	18.19	18.21
519000	2595.0	18.20	18.20	18.18	18.18	18.21
522000	2610.0	18.20	18.19	18.20	18.17	18.19

Spectrum Plot of Worst Value

10MHz / $\pi/2$ BPSK



15MHz / QPSK



20MHz / 256QAM



n41, Channel Bandwidth: 10MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
500202	2501.01	8.57	8.56	8.55	8.56	8.56
518598	2592.99	8.57	8.57	8.55	8.56	8.56
537000	2685.00	8.62	8.59	8.58	8.58	8.56
n41, Channel Bandwidth: 15MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
500700	2503.50	13.56	13.55	13.54	13.55	13.54
518598	2592.99	13.56	13.56	13.54	13.55	13.54
536496	2682.48	13.62	13.59	13.57	13.56	13.54
n41, Channel Bandwidth: 20MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
501204	2506.02	18.22	18.20	18.18	18.19	18.21
518598	2592.99	18.22	18.21	18.19	18.20	18.21
535998	2679.99	18.30	18.24	18.22	18.21	18.20
n41, Channel Bandwidth: 40MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
503202	2516.01	37.87	37.84	37.84	37.84	37.82
518598	2592.99	37.87	37.84	37.84	37.83	37.82
534000	2670.00	37.86	37.79	37.79	37.76	37.74
n41, Channel Bandwidth: 50MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
504204	2521.02	47.40	47.37	47.37	47.41	47.38
518598	2592.99	47.42	47.38	47.38	47.42	47.39
532998	2664.99	47.33	47.26	47.26	47.29	47.26

n41, Channel Bandwidth: 60MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
505200	2526.00	57.67	57.65	57.65	57.66	57.63
518598	2592.99	57.72	57.70	57.69	57.71	57.68
531996	2659.98	57.57	57.53	57.52	57.53	57.49
n41, Channel Bandwidth: 80MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
507204	2536.02	77.19	77.19	77.20	77.18	77.17
518598	2592.99	77.38	77.33	77.29	77.30	77.27
529998	2649.99	77.16	77.14	77.10	77.08	77.01
n41, Channel Bandwidth: 90MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
508200	2514.00	87.09	87.05	87.03	87.03	87.01
518598	2592.99	87.32	87.27	87.23	87.29	87.25
528996	2644.98	87.03	87.02	86.97	87.00	86.95
n41, Channel Bandwidth: 100MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
509202	2546.01	96.96	96.92	96.91	96.88	96.94
518598	2592.99	97.25	97.20	97.19	97.14	97.21
528000	2640.00	96.93	96.91	96.90	96.86	96.86

Spectrum Plot of Worst Value

10MHz / QPSK



15MHz / $\pi/2$ BPSK



20MHz / $\pi/2$ BPSK



40MHz / $\pi/2$ BPSK



50MHz / $\pi/2$ BPSK



60MHz / $\pi/2$ BPSK

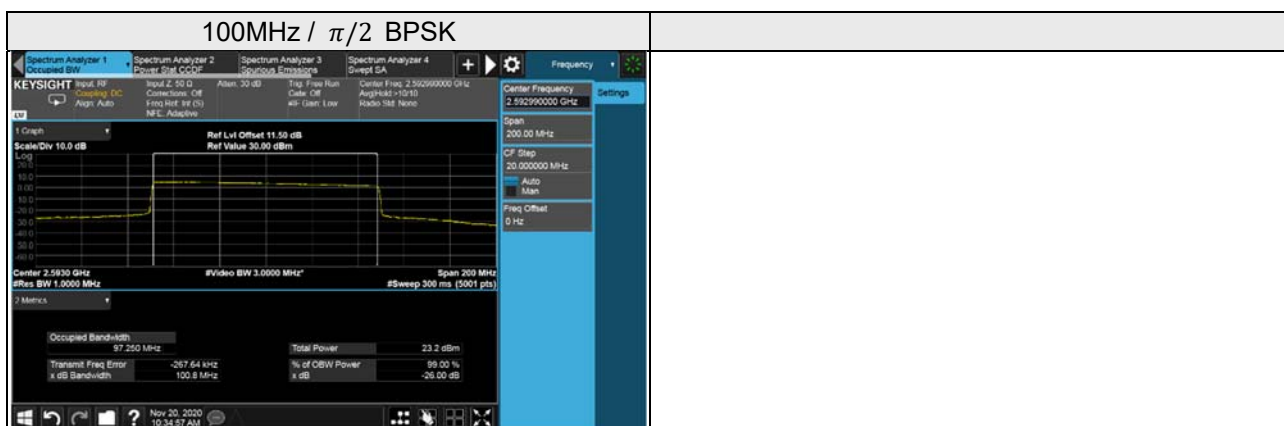


80MHz / $\pi/2$ BPSK



90MHz / $\pi/2$ BPSK





n66, Channel Bandwidth: 5MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
342500	1712.5	4.47	4.46	4.47	4.46	4.46
349000	1745.0	4.47	4.46	4.47	4.47	4.46
355500	1777.5	4.46	4.46	4.47	4.46	4.46
n66, Channel Bandwidth: 10MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
343000	1715.0	9.28	9.28	9.27	9.28	9.27
349000	1745.0	9.29	9.28	9.28	9.28	9.27
355000	1775.0	9.28	9.28	9.27	9.28	9.27
n66, Channel Bandwidth: 15MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
343500	1717.5	14.09	14.08	14.08	14.09	14.07
349000	1745.0	14.09	14.08	14.08	14.09	14.07
354500	1772.5	14.09	14.08	14.08	14.09	14.07
n66, Channel Bandwidth: 20MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
344000	1720.0	18.92	18.91	18.92	18.91	18.92
349000	1745.0	18.93	18.92	18.92	18.92	18.92
354000	1770.0	18.92	18.91	18.92	18.91	18.90
n66, Channel Bandwidth: 40MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
346000	1730.0	38.57	38.52	38.53	38.52	38.50
349000	1745.0	38.61	38.58	38.58	38.58	38.56
352000	1760.0	38.58	38.55	38.56	38.56	38.56

Spectrum Plot of Worst Value

5MHz / 16QAM



10MHz / $\pi/2$ BPSK



15MHz / $\pi/2$ BPSK



20MHz / $\pi/2$ BPSK



40MHz / $\pi/2$ BPSK



n71, Channel Bandwidth: 5MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
133100	665.5	4.47	4.46	4.47	4.46	4.47
136100	680.5	4.47	4.46	4.46	4.46	4.46
139100	695.5	4.46	4.46	4.46	4.46	4.46
n71, Channel Bandwidth: 10MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
133600	668.0	9.28	9.26	9.27	9.26	9.27
136100	680.5	9.28	9.27	9.28	9.27	9.27
138600	693.0	9.28	9.27	9.28	9.27	9.27
n71, Channel Bandwidth: 15MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
134100	670.5	14.06	14.05	14.05	14.06	14.03
136100	680.5	14.08	14.07	14.07	14.08	14.06
138100	690.5	14.07	14.07	14.07	14.08	14.06
n71, Channel Bandwidth: 20MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
134600	673.0	18.87	18.87	18.87	18.86	18.86
136100	680.5	18.92	18.91	18.92	18.91	18.91
137600	688.0	18.90	18.90	18.90	18.89	18.90

Spectrum Plot of Worst Value



n77, Channel Bandwidth: 10MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647000	3705.00	8.59	8.58	8.58	8.58	8.58
656000	3840.00	8.62	8.58	8.59	8.58	8.58
665000	3975.00	8.72	8.58	8.59	8.58	8.59
n77, Channel Bandwidth: 15MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647168	3707.52	13.58	13.58	13.57	13.57	13.57
656000	3840.00	13.61	13.58	13.57	13.57	13.57
664832	3972.48	13.74	13.59	13.58	13.57	13.58
n77, Channel Bandwidth: 20MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647334	3710.01	18.24	18.22	18.20	18.21	18.22
656000	3840.00	18.27	18.22	18.20	18.21	18.22
665666	3969.99	18.41	18.23	18.21	18.22	18.24
n77, Channel Bandwidth: 40MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648000	3720.00	37.89	37.85	37.86	37.85	37.83
656000	3840.00	37.96	37.85	37.86	37.84	37.83
664000	3960.00	38.14	37.86	37.87	37.85	37.85
n77, Channel Bandwidth: 50MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648334	3725.01	47.43	47.39	47.39	47.43	47.38
656000	3840.00	47.51	47.38	47.37	47.41	47.36
663666	3954.99	47.71	47.39	47.38	47.42	47.37

n77, Channel Bandwidth: 60MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648668	3730.02	57.74	57.72	57.71	57.73	57.69
656000	3840.00	57.83	57.69	57.67	57.70	57.65
663332	3949.98	58.05	57.71	57.70	57.71	57.68
n77, Channel Bandwidth: 80MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649334	3740.01	77.39	77.31	77.33	77.31	77.29
656000	3840.00	77.46	77.24	77.26	77.23	77.21
662666	3939.99	77.78	77.31	77.33	77.29	77.28
n77, Channel Bandwidth: 90MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649558	3745.02	87.31	87.24	87.24	87.24	87.19
656000	3840.00	87.41	87.14	87.14	87.14	87.08
662332	3934.98	87.79	87.23	87.23	87.21	87.17
n77, Channel Bandwidth: 100MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
650000	3750.00	97.23	97.15	97.19	97.17	97.12
656000	3840.00	97.31	97.06	97.05	97.08	96.98
662000	3930.00	97.70	97.15	97.17	97.15	97.10

Spectrum Plot of Worst Value

10MHz / $\pi/2$ BPSK



15MHz / $\pi/2$ BPSK



20MHz / $\pi/2$ BPSK



40MHz / $\pi/2$ BPSK



50MHz / $\pi/2$ BPSK



60MHz / $\pi/2$ BPSK

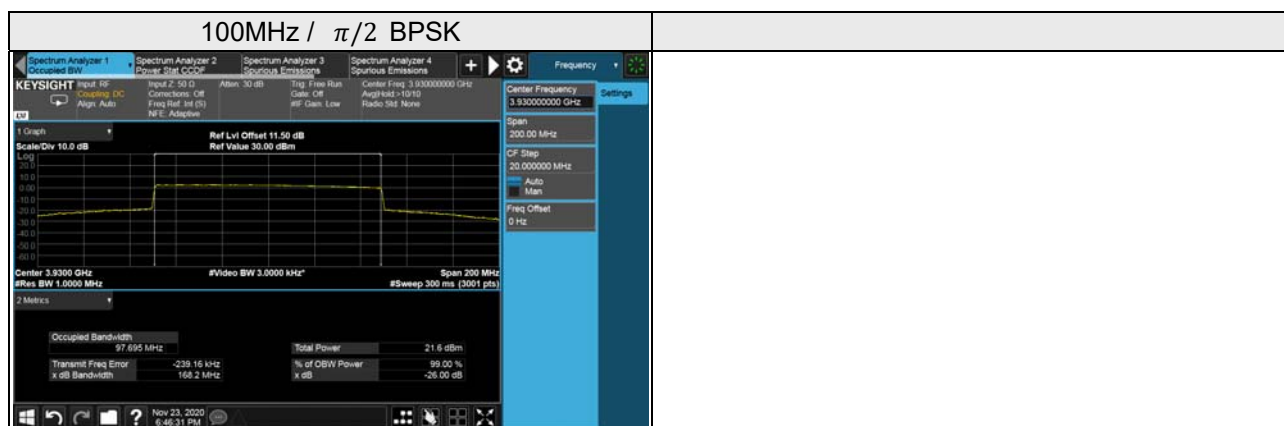


80MHz / $\pi/2$ BPSK



90MHz / $\pi/2$ BPSK





26dB Bandwidth

n7, Channel Bandwidth: 5MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
500500	2502.5	4.91	4.79	4.86	4.81	4.82
507000	2535.0	4.89	4.82	4.88	4.87	4.79
513500	2567.5	4.87	4.81	4.86	4.86	4.81
n7, Channel Bandwidth: 10MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
501000	2505.0	9.90	9.78	9.72	9.72	9.74
507000	2535.0	9.91	9.75	9.76	9.75	9.72
513000	2565.0	9.77	9.74	9.70	9.71	9.72
n7, Channel Bandwidth: 15MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
501500	2507.5	14.81	14.63	14.61	14.63	14.60
507000	2535.0	14.83	14.64	14.63	14.63	14.61
512500	2562.5	14.62	14.60	14.60	14.61	14.60
n7, Channel Bandwidth: 20MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
502000	2510.0	19.71	19.61	19.63	19.62	19.63
507000	2535.0	19.72	19.59	19.62	19.60	19.60
512000	2560.0	19.63	19.58	19.60	19.57	19.59

Spectrum Plot of Worst Value



n38, Channel Bandwidth: 10MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
515000	2575.0	9.31	9.26	9.36	9.21	9.18
519000	2595.0	9.32	9.27	9.30	9.22	9.20
523000	2615.0	9.30	9.25	9.31	9.22	9.19
n38, Channel Bandwidth: 15MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
515500	2577.5	14.32	14.37	14.36	14.27	14.27
519000	2595.0	14.32	14.40	14.36	14.26	14.28
522500	2612.5	14.32	14.36	14.37	14.26	14.27
n38, Channel Bandwidth: 20MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
516000	2580.0	19.21	19.08	19.15	19.01	19.08
519000	2595.0	19.19	19.07	19.13	19.01	19.09
522000	2610.0	19.11	18.98	18.96	18.96	19.00

Spectrum Plot of Worst Value

10MHz / $\pi/2$ BPSK



15MHz / QPSK



20MHz / $\pi/2$ BPSK



n41, Channel Bandwidth: 10MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
500202	2501.01	9.55	9.27	9.24	9.19	9.21
518598	2592.99	9.29	9.25	9.23	9.22	9.20
537000	2685.00	14.25	11.81	11.19	9.89	9.21
n41, Channel Bandwidth: 15MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
500700	2503.50	14.95	14.45	14.30	14.29	14.35
518598	2592.99	14.55	14.46	14.30	14.27	14.34
536496	2682.48	21.76	17.40	15.89	14.62	14.36
n41, Channel Bandwidth: 20MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
501204	2506.02	19.61	19.17	19.24	19.10	19.13
518598	2592.99	19.34	19.11	19.17	19.05	19.12
535998	2679.99	30.60	21.97	21.35	19.19	19.14
n41, Channel Bandwidth: 40MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
503202	2516.01	40.07	39.34	39.36	39.32	39.29
518598	2592.99	39.56	39.30	39.35	39.27	39.28
534000	2670.00	47.51	39.50	39.70	39.35	39.26
n41, Channel Bandwidth: 50MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
504204	2521.02	49.43	49.19	49.18	49.18	49.18
518598	2592.99	49.43	49.20	49.19	49.16	49.17
532998	2664.99	51.57	49.22	49.22	49.17	49.13

n41, Channel Bandwidth: 60MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
505200	2526.00	60.03	59.93	59.89	59.84	59.85
518598	2592.99	60.00	59.90	59.86	59.85	59.85
531996	2659.98	60.68	59.93	59.89	59.84	59.81
n41, Channel Bandwidth: 80MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
507204	2536.02	80.18	80.08	80.10	80.08	80.13
518598	2592.99	80.49	80.07	80.11	80.02	80.06
529998	2649.99	83.34	80.87	80.71	80.08	80.00
n41, Channel Bandwidth: 90MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
508200	2514.00	90.38	90.29	90.29	90.25	90.22
518598	2592.99	90.50	90.36	90.32	90.31	90.29
528996	2644.98	91.03	90.72	90.99	90.35	90.29
n41, Channel Bandwidth: 100MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
509202	2546.01	100.60	100.60	100.50	6.00	100.50
518598	2592.99	100.80	100.60	100.60	100.60	100.60
528000	2640.00	101.70	101.10	101.10	100.80	100.50

Spectrum Plot of Worst Value

10MHz / $\pi/2$ BPSK



15MHz / $\pi/2$ BPSK



20MHz / $\pi/2$ BPSK



40MHz / $\pi/2$ BPSK



50MHz / $\pi/2$ BPSK



60MHz / $\pi/2$ BPSK

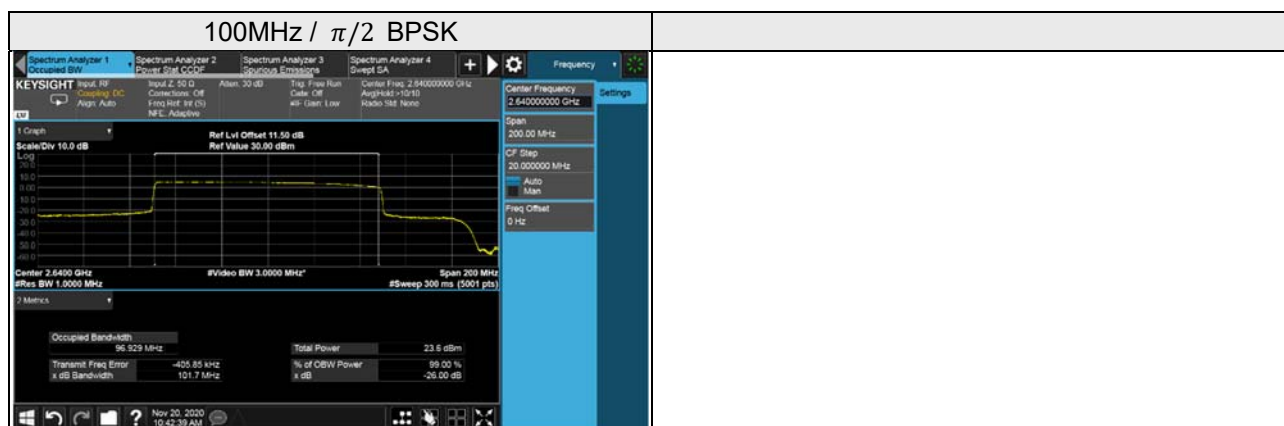


80MHz / $\pi/2$ BPSK



90MHz / $\pi/2$ BPSK

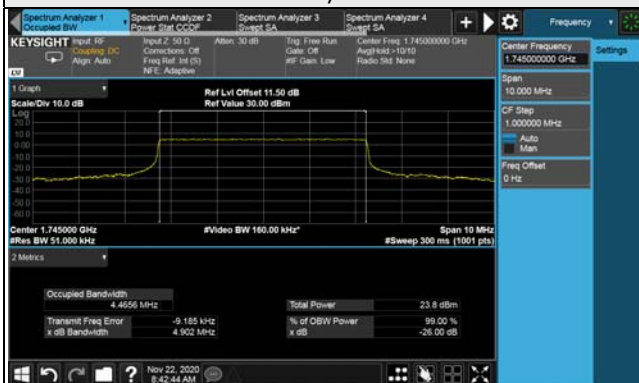




n66, Channel Bandwidth: 5MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
342500	1712.5	4.89	4.79	4.84	4.84	4.82
349000	1745.0	4.90	4.82	4.84	4.84	4.82
355500	1777.5	4.88	4.82	4.84	4.85	4.82
n66, Channel Bandwidth: 10MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
343000	1715.0	9.97	9.82	9.75	9.77	9.82
349000	1745.0	10.04	9.76	9.81	9.68	9.79
355000	1775.0	10.01	9.76	9.71	9.73	9.75
n66, Channel Bandwidth: 15MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
343500	1717.5	14.64	14.62	14.61	14.60	14.64
349000	1745.0	14.74	14.63	14.68	14.62	14.64
354500	1772.5	14.72	14.63	14.60	14.61	14.65
n66, Channel Bandwidth: 20MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
344000	1720.0	19.77	19.60	19.66	19.59	19.59
349000	1745.0	19.83	19.60	19.74	19.59	19.62
354000	1770.0	19.84	19.60	19.67	19.60	19.61
n66, Channel Bandwidth: 40MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
346000	1730.0	40.24	39.91	39.95	40.01	39.89
349000	1745.0	40.11	39.95	39.94	39.93	39.91
352000	1760.0	40.20	39.93	39.99	39.96	39.92

Spectrum Plot of Worst Value

5MHz / $\pi/2$ BPSK



10MHz / $\pi/2$ BPSK



15MHz / $\pi/2$ BPSK



20MHz / $\pi/2$ BPSK



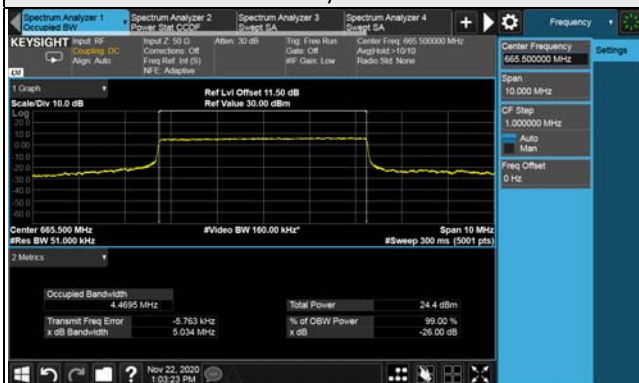
40MHz / $\pi/2$ BPSK



n71, Channel Bandwidth: 5MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
133100	665.5	5.03	4.88	4.87	4.83	4.84
136100	680.5	4.94	4.86	4.87	4.80	4.84
139100	695.5	4.90	4.83	4.91	4.75	4.81
n71, Channel Bandwidth: 10MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
133600	668.0	10.05	9.75	9.76	9.67	9.69
136100	680.5	9.83	9.75	9.78	9.70	9.71
138600	693.0	9.81	9.74	9.73	9.66	9.70
n71, Channel Bandwidth: 15MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
134100	670.5	14.75	14.60	14.64	14.60	14.64
136100	680.5	14.62	14.60	14.64	14.60	14.62
138100	690.5	14.62	14.60	14.61	14.59	14.64
n71, Channel Bandwidth: 20MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
134600	673.0	19.70	19.59	19.61	19.58	19.62
136100	680.5	19.89	19.61	19.67	19.60	19.67
137600	688.0	19.68	19.59	19.60	19.64	19.65

Spectrum Plot of Worst Value

5MHz / $\pi/2$ BPSK



10MHz / $\pi/2$ BPSK



15MHz / $\pi/2$ BPSK



20MHz / $\pi/2$ BPSK



n77, Channel Bandwidth: 10MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647000	3705.00	9.58	9.30	9.38	9.30	9.33
656000	3840.00	13.66	9.39	9.41	9.23	9.32
665000	3975.00	18.24	9.48	9.54	9.28	9.61
n77, Channel Bandwidth: 15MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647168	3707.52	14.53	14.50	14.48	14.31	14.39
656000	3840.00	18.38	14.52	14.45	14.31	14.45
664832	3972.48	29.23	14.81	14.55	14.36	14.61
n77, Channel Bandwidth: 20MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647334	3710.01	19.49	19.22	19.16	19.06	19.17
656000	3840.00	26.86	19.11	19.25	19.05	19.14
665666	3969.99	37.79	19.28	19.37	19.11	19.31
n77, Channel Bandwidth: 40MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648000	3720.00	39.62	39.27	39.32	39.27	39.24
656000	3840.00	50.60	39.27	39.39	39.27	39.28
664000	3960.00	72.97	39.38	39.44	39.29	39.34
n77, Channel Bandwidth: 50MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648334	3725.01	49.40	49.14	49.15	49.13	49.09
656000	3840.00	59.33	49.14	49.14	49.16	49.09
663666	3954.99	85.76	49.22	49.20	49.17	49.12

n77, Channel Bandwidth: 60MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648668	3730.02	59.94	59.89	59.83	59.80	59.81
656000	3840.00	74.39	59.86	59.81	59.81	59.80
663332	3949.98	101.30	59.98	59.87	59.81	59.84
n77, Channel Bandwidth: 80MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649334	3740.01	80.61	80.10	80.07	80.01	80.03
656000	3840.00	98.16	80.08	80.05	80.01	80.03
662666	3939.99	138.60	80.16	80.15	80.10	80.09
n77, Channel Bandwidth: 90MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649558	3745.02	90.45	90.38	90.33	90.34	90.31
656000	3840.00	108.50	90.34	90.35	90.32	90.29
662332	3934.98	161.40	90.42	90.47	90.37	90.35
n77, Channel Bandwidth: 100MHz						
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
650000	3750.00	100.70	100.60	100.60	100.60	100.60
656000	3840.00	121.90	100.60	100.60	100.60	100.50
662000	3930.00	168.20	100.70	100.70	100.60	100.60

Spectrum Plot of Worst Value

10MHz / $\pi/2$ BPSK



15MHz / $\pi/2$ BPSK



20MHz / $\pi/2$ BPSK



40MHz / $\pi/2$ BPSK



50MHz / $\pi/2$ BPSK



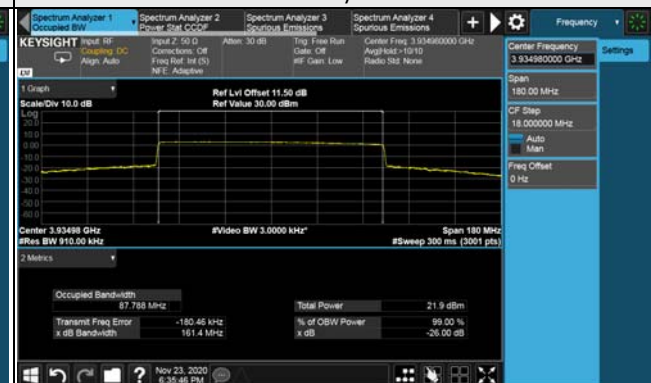
60MHz / $\pi/2$ BPSK

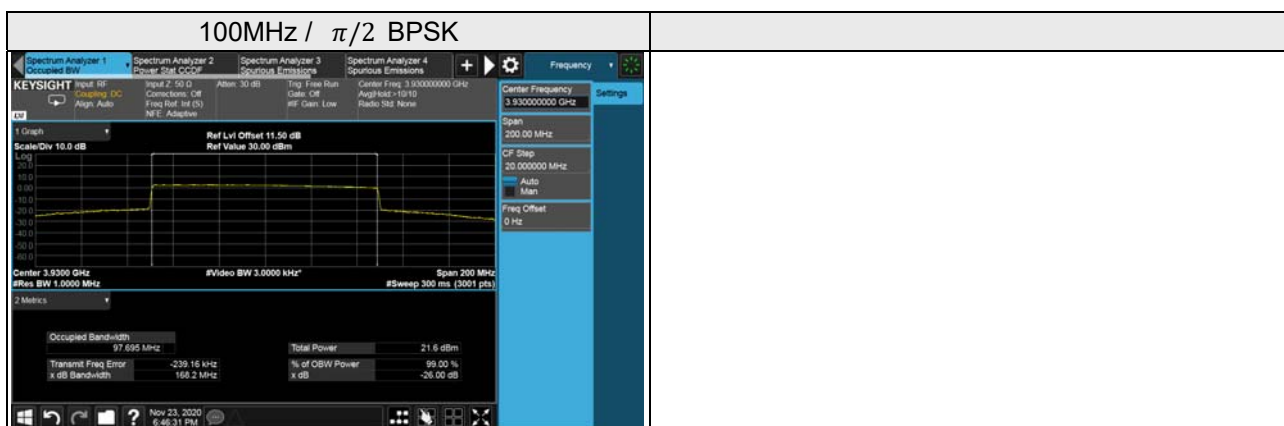


80MHz / $\pi/2$ BPSK



90MHz / $\pi/2$ BPSK





4.5 Band Edge Measurement

4.5.1 Limits of Band Edge Measurement

For n7, n38, n41:

According to FCC 27.53(m)(4) specified that power of any emission outside of the channel edge must be attenuated below the transmitting power (P) by a 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. 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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed.

For n66:

According to FCC 27.53(h) for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log (P)$ dB.

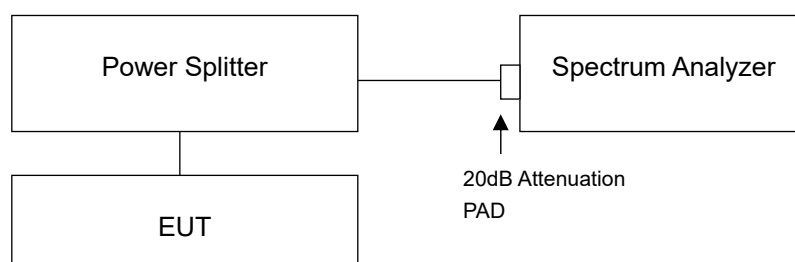
For n71:

According to FCC 27.53(g) for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

For n77:

According to FCC 27.53(l) for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

4.5.2 Test Setup



4.5.3 Test Procedures

- a. The testing follows ANSI C63.26 section 5.7
- b. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- c. The band edges of low and high channels for the highest RF powers were measured.
- d. Set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- e. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
- f. Set spectrum analyzer with RMS detector.
- g. Offset has included the duty factor for n7. Duty factor = $10 \log [(reference\ bandwidth) / (resolution\ or\ measurement\ bandwidth)]$, operations in the 5 MHz and 10 MHz channel BW mode, extend the 1% range from 1M to 2M above and below the channel edge and then reduce the limit further by $10 \log (1000/100)=10dB$ (i.e. total $-10 + -10=-20dB$) to compensate for the integration from 100k to 1M.
- h. Checked that all the results comply with the emission limit line.

4.5.4 Test Results

Emission Mask

n7, Channel Bandwidth: 5MHz

Channel 500500 (2502.5MHz) $\pi/2$ BPSK 1 RB / 0 RB Offset Channel 507000 (2535.0MHz) $\pi/2$ BPSK 1 RB / 0 RB Offset



Channel 500500 (2502.5MHz) $\pi/2$ BPSK 1 RB / 24 RB Offset Channel 507000 (2535.0MHz) $\pi/2$ BPSK 1 RB / 24 RB Offset

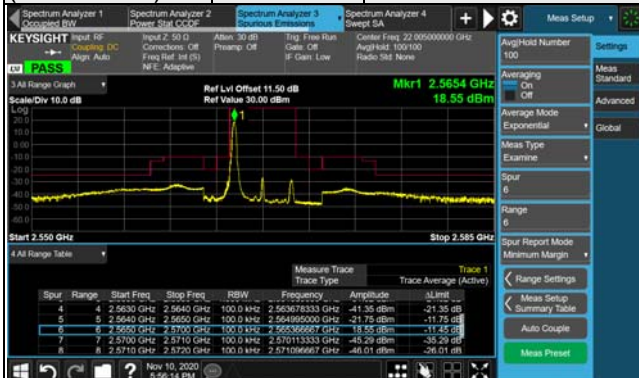


Channel 500500 (2502.5MHz) $\pi/2$ BPSK 25 RB / 0 RB Offset Channel 507000 (2535.0MHz) $\pi/2$ BPSK 25 RB / 0 RB Offset

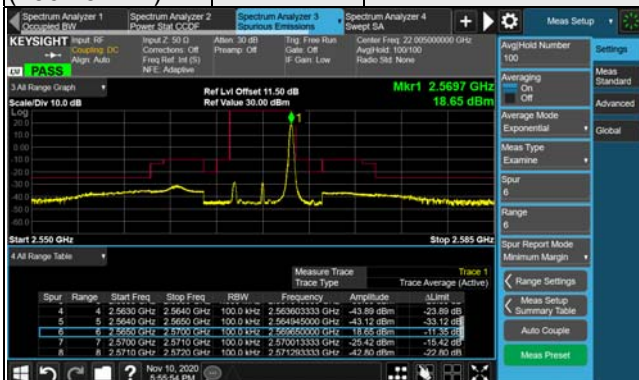


n7, Channel Bandwidth: 5MHz

Channel 513500
(2567.5MHz) $\pi/2$ BPSK 1 RB / 0 RB Offset



Channel 513500
(2567.5MHz) $\pi/2$ BPSK 1 RB / 24 RB Offset



Channel 513500
(2567.5MHz) $\pi/2$ BPSK 25 RB / 0 RB Offset



n7, Channel Bandwidth: 10MHz

Channel 501000 (2505.0MHz)	$\pi/2$ BPSK	1 RB / 0 RB Offset	Channel 507000 (2535.0MHz)	$\pi/2$ BPSK	1 RB / 0 RB Offset
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Channel 501000 (2505.0MHz)	$\pi/2$ BPSK	1 RB / 51 RB Offset	Channel 507000 (2535.0MHz)	$\pi/2$ BPSK	1 RB / 51 RB Offset
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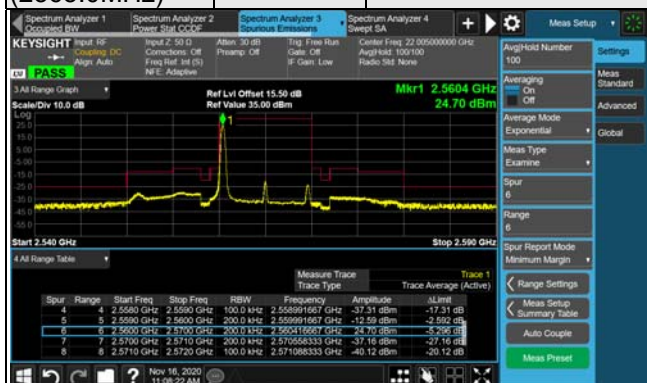


Channel 501000 (2505.0MHz)	$\pi/2$ BPSK	52 RB / 0 RB Offset	Channel 507000 (2535.0MHz)	$\pi/2$ BPSK	52 RB / 0 RB Offset
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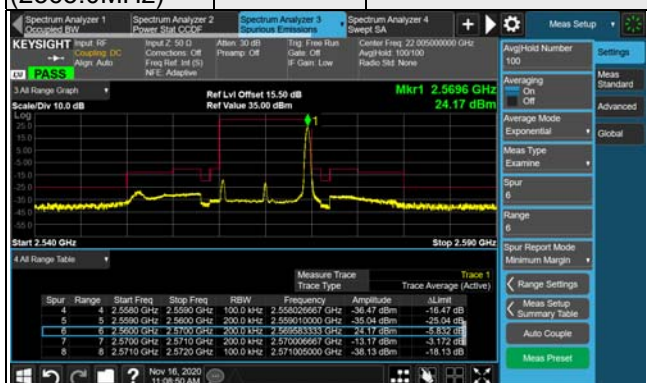


n7, Channel Bandwidth: 10MHz

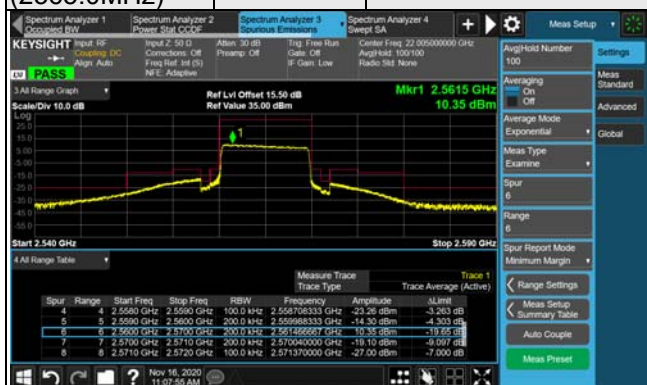
Channel 513000
(2565.0MHz) $\pi/2$ BPSK 1 RB / 0 RB Offset



Channel 513000
(2565.0MHz) $\pi/2$ BPSK 1 RB / 51 RB Offset



Channel 513000
(2565.0MHz) $\pi/2$ BPSK 52 RB / 0 RB Offset

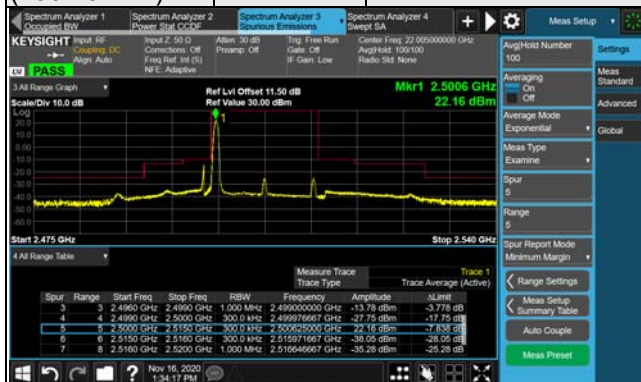


n7, Channel Bandwidth: 15MHz

Channel 501500
(2507.5MHz)

$\pi/2$ BPSK

1 RB / 0 RB Offset



Channel 507000
(2535.0MHz)

$\pi/2$ BPSK

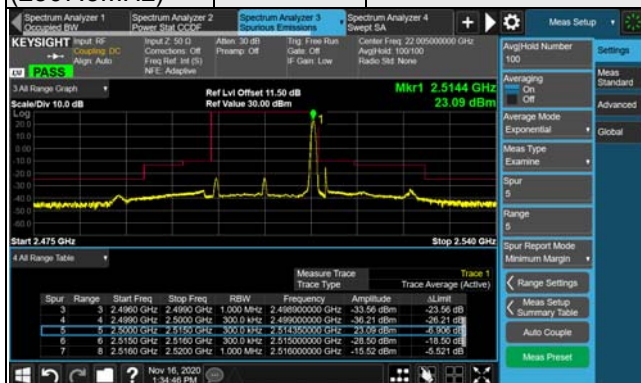
1 RB / 0 RB Offset



Channel 501500
(2507.5MHz)

$\pi/2$ BPSK

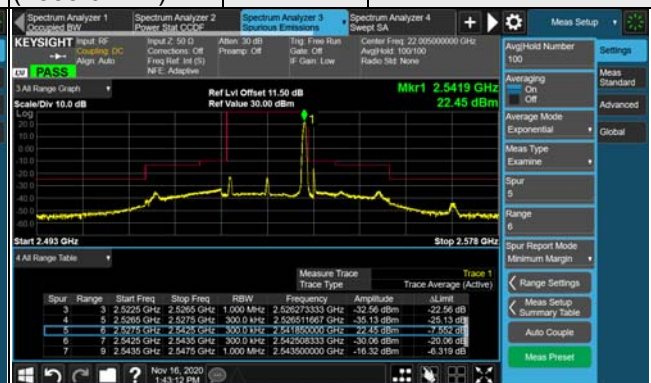
1 RB / 78 RB Offset



Channel 507000
(2535.0MHz)

$\pi/2$ BPSK

1 RB / 78 RB Offset



Channel 501500
(2507.5MHz)

$\pi/2$ BPSK

79 RB / 0 RB Offset



Channel 507000
(2535.0MHz)

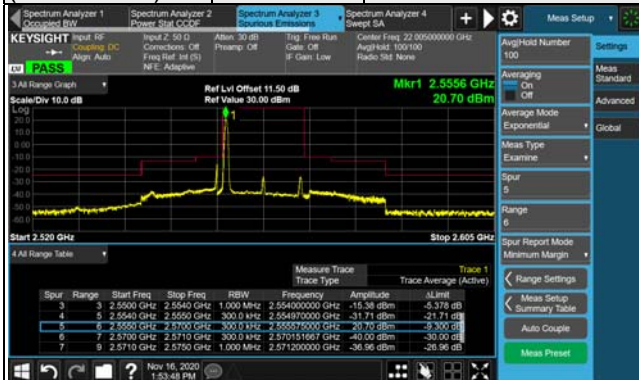
$\pi/2$ BPSK

79 RB / 0 RB Offset



n7, Channel Bandwidth: 15MHz

Channel 512500
(2562.5MHz) $\pi/2$ BPSK 1 RB / 0 RB Offset



Channel 512500
(2562.5MHz) $\pi/2$ BPSK 1 RB / 78 RB Offset



Channel 512500
(2562.5MHz) $\pi/2$ BPSK 79 RB / 0 RB Offset

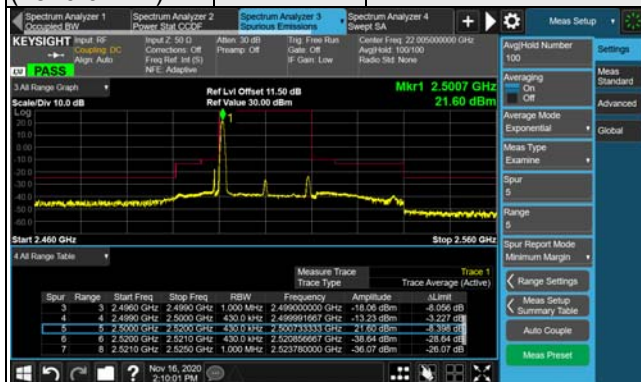


n7, Channel Bandwidth: 20MHz

Channel 502000
(2510.0MHz)

$\pi/2$ BPSK

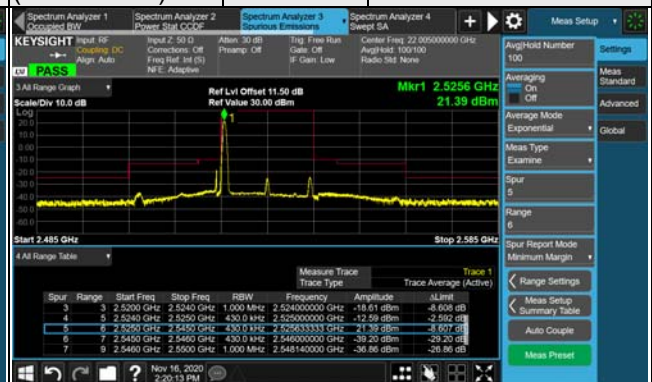
1 RB / 0 RB Offset



Channel 507000
(2535.0MHz)

$\pi/2$ BPSK

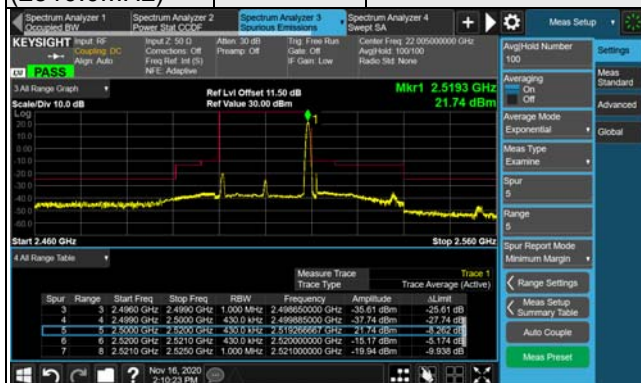
1 RB / 0 RB Offset



Channel 502000
(2510.0MHz)

$\pi/2$ BPSK

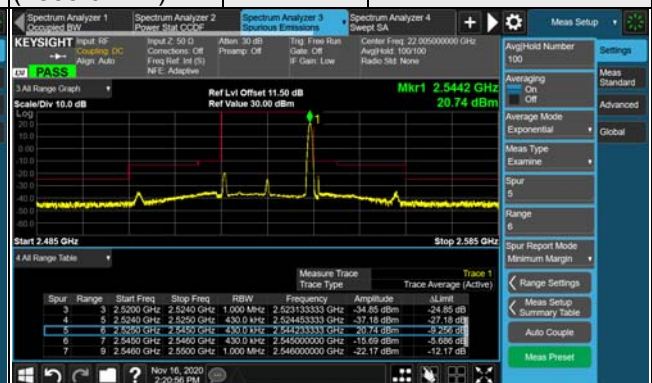
1 RB / 105 RB Offset



Channel 507000
(2535.0MHz)

$\pi/2$ BPSK

1 RB / 105 RB Offset



Channel 502000
(2510.0MHz)

$\pi/2$ BPSK

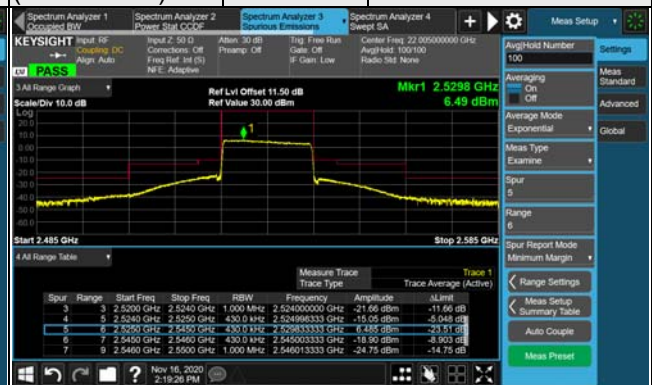
106 RB / 0 RB Offset



Channel 507000
(2535.0MHz)

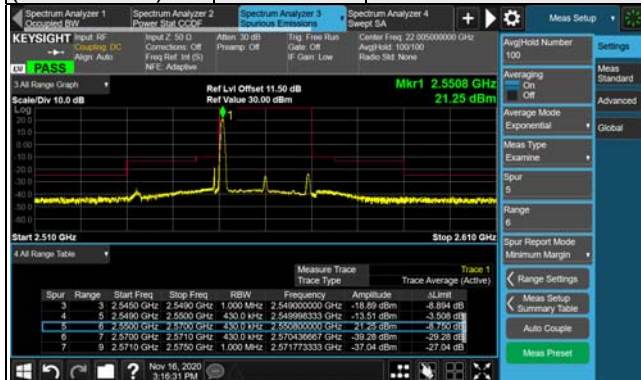
$\pi/2$ BPSK

106 RB / 0 RB Offset

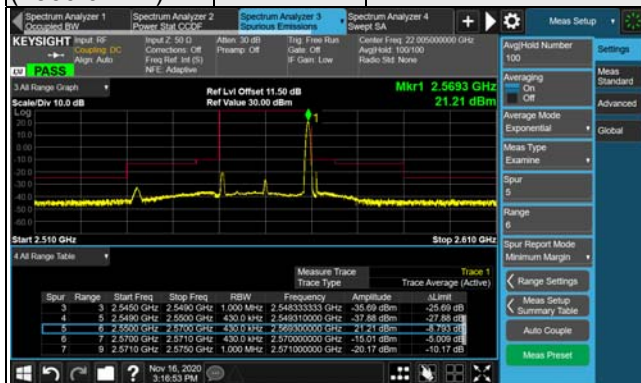


n7, Channel Bandwidth: 20MHz

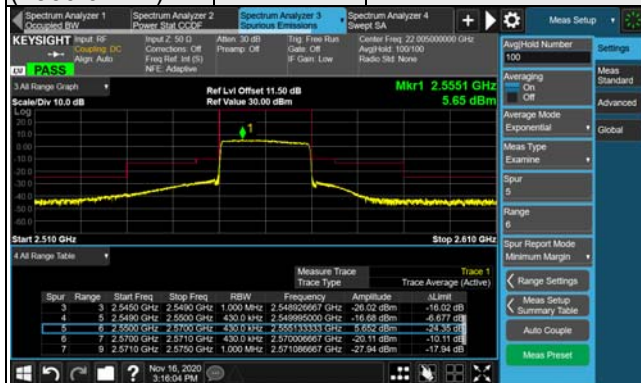
Channel 512000
(2560.0MHz) $\pi/2$ BPSK 1 RB / 0 RB Offset



Channel 512000
(2560.0MHz) $\pi/2$ BPSK 1 RB / 105 RB Offset



Channel 512000
(2560.0MHz) $\pi/2$ BPSK 106 RB / 0 RB Offset



n38, Channel Bandwidth: 10MHz

Channel 15000
(2575.0MHz)

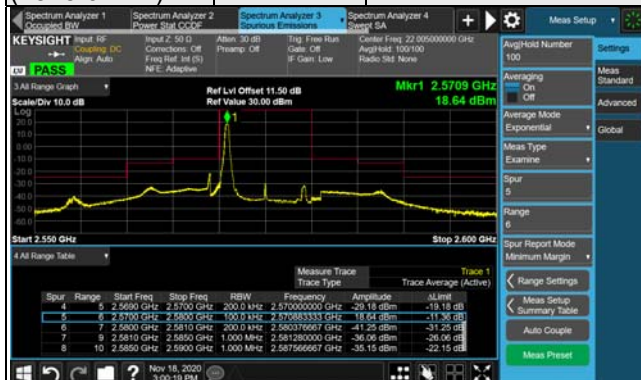
$\pi/2$ BPSK

1 RB / 0 RB Offset

Channel 519000
(2595.0MHz)

$\pi/2$ BPSK

1 RB / 0 RB Offset



Channel 15000
(2575.0MHz)

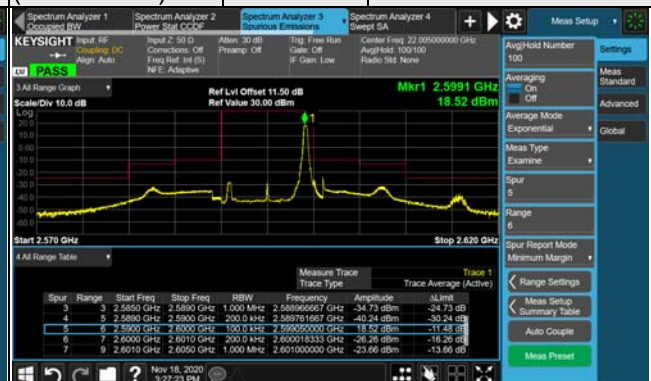
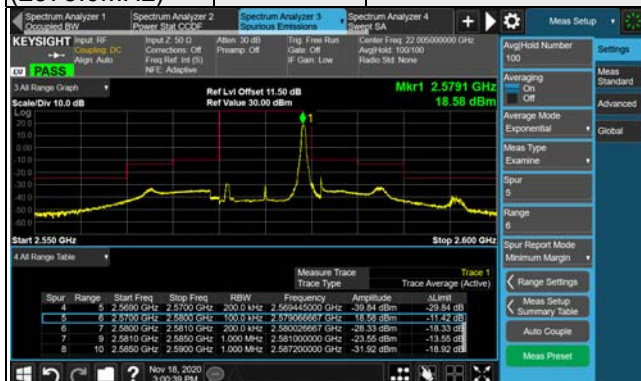
$\pi/2$ BPSK

1 RB / 23 RB Offset

Channel 519000
(2595.0MHz)

$\pi/2$ BPSK

1 RB / 23 RB Offset



Channel 15000
(2575.0MHz)

$\pi/2$ BPSK

24 RB / 0 RB Offset

Channel 519000
(2595.0MHz)

$\pi/2$ BPSK

24 RB / 0 RB Offset

