

FCC Test Report

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

Report No.: RF200514C16B-2

FCC ID: T8GSAN9001

Original FCC ID: T8GSAN9000

Test Model: SA-N9001 CUS D1

Received Date: May 14, 2020

Test Date: Nov. 29 ~ Dec. 24, 2020

Issued Date: Dec. 30, 2020

Applicant: Harman Connected Car Division

Address: Parking 3, 85748 Garching Germany

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, Taiwan

FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF200514C16B-2	Original release	Dec. 30, 2020

1 Certificate of Conformity

Product: Module

Brand: Harman

Test Model: SA-N9001 CUS D1

Sample Status: Standard Sample

Applicant: Harman Connected Car Division

Test Date: Nov. 29 ~ Dec. 24, 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. 30, 2020
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Dec. 30, 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.
2.1053 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 -18.60dB at 5070.00MHz.

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) (\pm)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.59 dB
	200MHz ~ 1000MHz	3.60 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 KEYSIGHT	N9038A	MY55420137	Apr. 16, 2020	Apr. 15, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 12, 2020	Jun. 11, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 06, 2020	Nov. 05, 2021
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Loop Antenna TESEQ	HLA 6121	45745	Jul. 06, 2020	Jul. 05, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jun. 08, 2020	Jun. 07, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 18, 2020	Feb. 17, 2021
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM8 000	CABLE-CH9-02 (248780+171006)	Jan. 18, 2020	Jan. 17, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Jan. 18, 2020	Jan. 17, 2021
RF signal cable Woken	8D-FB	Cable-CH9-01	Jun. 08, 2020	Jun. 07, 2021
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Sep. 04, 2020	Sep. 03, 2021
UXM 5G Wireless Test Platform Keysight	E7515B	MY58300759	Apr. 18, 2020	Apr. 17, 2021
Standard Temperature And Humidity Chamber TERCHY	MHU-225AU	920842	May 27, 2020	May 31, 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 9.

3 General Information

3.1 General Description of EUT

Product	Module	
Brand	Harman	
Test Model	SA-N9001 CUS 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	

Max. EIRP Power		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
	n7 (Channel Bandwidth: 5MHz)	396.278mW (25.98dBm)	204.174mW (23.10dBm)	198.609mW (22.98dBm)	177.419mW (22.49dBm)	87.096mW (19.40dBm)
n7 (Channel Bandwidth: 10MHz)	397.192mW (25.99dBm)	204.174mW (23.10dBm)	199.526mW (23.00dBm)	177.828mW (22.50dBm)	89.125mW (19.50dBm)	
n7 (Channel Bandwidth: 15MHz)	389.942mW (25.91dBm)	203.704mW (23.09dBm)	197.697mW (22.96dBm)	176.198mW (22.46dBm)	88.920mW (19.49dBm)	
n7 (Channel Bandwidth: 20MHz)	396.278mW (25.98dBm)	204.174mW (23.10dBm)	198.609mW (22.98dBm)	177.828mW (22.50dBm)	88.308mW (19.46dBm)	
n38 (Channel Bandwidth: 10MHz)	346.737mW (25.40dBm)	180.717mW (22.57dBm)	173.780mW (22.40dBm)	155.955mW (21.93dBm)	79.068mW (18.98dBm)	
n38 (Channel Bandwidth: 15MHz)	349.945mW (25.44dBm)	180.717mW (22.57dBm)	177.011mW (22.48dBm)	156.675mW (21.95dBm)	79.068mW (18.98dBm)	
n38 (Channel Bandwidth: 20MHz)	352.371mW (25.47dBm)	180.302mW (22.56dBm)	174.985mW (22.43dBm)	157.036mW (21.96dBm)	78.705mW (18.96dBm)	
n41 (Channel Bandwidth: 10MHz)	364.754mW (25.62dBm)	190.108mW (22.79dBm)	180.717mW (22.57dBm)	162.930mW (22.12dBm)	81.846mW (19.13dBm)	
n41 (Channel Bandwidth: 15MHz)	368.978mW (25.67dBm)	189.234mW (22.77dBm)	184.502mW (22.66dBm)	165.959mW (22.20dBm)	80.910mW (19.08dBm)	
n41 (Channel Bandwidth: 20MHz)	369.828mW (25.68dBm)	189.671mW (22.78dBm)	185.353mW (22.68dBm)	163.682mW (22.14dBm)	82.794mW (19.18dBm)	
n41 (Channel Bandwidth: 40MHz)	362.243mW (25.59dBm)	190.108mW (22.79dBm)	185.780mW (22.69dBm)	165.959mW (22.20dBm)	82.035mW (19.14dBm)	
n41 (Channel Bandwidth: 50MHz)	370.681mW (25.69dBm)	189.671mW (22.78dBm)	182.810mW (22.62dBm)	165.196mW (22.18dBm)	81.096mW (19.09dBm)	
n41 (Channel Bandwidth: 60MHz)	363.915mW (25.61dBm)	188.799mW (22.76dBm)	185.353mW (22.68dBm)	162.181mW (22.10dBm)	83.176mW (19.20dBm)	
n41 (Channel Bandwidth: 80MHz)	360.579mW (25.57dBm)	187.068mW (22.72dBm)	183.231mW (22.63dBm)	163.682mW (22.14dBm)	83.176mW (19.20dBm)	
n41 (Channel Bandwidth: 90MHz)	368.129mW (25.66dBm)	187.932mW (22.74dBm)	185.780mW (22.69dBm)	165.959mW (22.20dBm)	82.414mW (19.16dBm)	
n41 (Channel Bandwidth: 100MHz)	366.438mW (25.64dBm)	190.108mW (22.79dBm)	183.231mW (22.63dBm)	165.959mW (22.20dBm)	82.035mW (19.14dBm)	
n66 (Channel Bandwidth: 5MHz)	523.600mW (27.19dBm)	271.019mW (24.33dBm)	265.461mW (24.24dBm)	235.505mW (23.72dBm)	117.490mW (20.70dBm)	
n66 (Channel Bandwidth: 10MHz)	527.230mW (27.22dBm)	270.396mW (24.32dBm)	261.216mW (24.17dBm)	236.592mW (23.74dBm)	118.032mW (20.72dBm)	
n66 (Channel Bandwidth: 15MHz)	529.663mW (27.24dBm)	271.644mW (24.34dBm)	263.633mW (24.21dBm)	235.505mW (23.72dBm)	118.304mW (20.73dBm)	
n66 (Channel Bandwidth: 20MHz)	526.017mW (27.21dBm)	271.644mW (24.34dBm)	263.027mW (24.20dBm)	236.592mW (23.74dBm)	118.304mW (20.73dBm)	
n66 (Channel Bandwidth: 40MHz)	526.017mW (27.21dBm)	270.396mW (24.32dBm)	264.850mW (24.23dBm)	230.144mW (23.62dBm)	118.032mW (20.72dBm)	

Max. EIRP Power		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
	n77 (Channel Bandwidth: 10MHz)	394.457mW (25.96dBm)	197.697mW (22.96dBm)	198.609mW (22.98dBm)	175.388mW (22.44dBm)	88.920mW (19.49dBm)
	n77 (Channel Bandwidth: 15MHz)	396.278mW (25.98dBm)	203.704mW (23.09dBm)	199.526mW (23.00dBm)	174.181mW (22.41dBm)	87.297mW (19.41dBm)
	n77 (Channel Bandwidth: 20MHz)	398.107mW (26.00dBm)	201.372mW (23.04dBm)	195.434mW (22.91dBm)	175.792mW (22.45dBm)	88.716mW (19.48dBm)
	n77 (Channel Bandwidth: 40MHz)	398.107mW (26.00dBm)	201.372mW (23.04dBm)	196.789mW (22.94dBm)	174.985mW (22.43dBm)	87.902mW (19.44dBm)
	n77 (Channel Bandwidth: 50MHz)	399.025mW (26.01dBm)	204.174mW (23.10dBm)	199.526mW (23.00dBm)	176.198mW (22.46dBm)	87.096mW (19.40dBm)
	n77 (Channel Bandwidth: 60MHz)	398.107mW (26.00dBm)	199.526mW (23.00dBm)	199.986mW (23.01dBm)	178.238mW (22.51dBm)	88.716mW (19.48dBm)
	n77 (Channel Bandwidth: 80MHz)	387.258mW (25.88dBm)	201.372mW (23.04dBm)	195.434mW (22.91dBm)	178.238mW (22.51dBm)	88.308mW (19.46dBm)
	n77 (Channel Bandwidth: 90MHz)	388.150mW (25.89dBm)	203.236mW (23.08dBm)	199.067mW (22.99dBm)	177.011mW (22.48dBm)	89.125mW (19.50dBm)
	n77 (Channel Bandwidth: 100MHz)	393.550mW (25.95dBm)	202.302mW (23.06dBm)	197.242mW (22.95dBm)	177.828mW (22.50dBm)	89.125mW (19.50dBm)
Max. ERP Power		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
	n71 (Channel Bandwidth: 5MHz)	227.510mW (23.57dBm)	116.413mW (20.66dBm)	113.501mW (20.55dBm)	100.000mW (20.00dBm)	50.816mW (17.06dBm)
	n71 (Channel Bandwidth: 10MHz)	222.331mW (23.47dBm)	116.681mW (20.67dBm)	113.501mW (20.55dBm)	100.462mW (20.02dBm)	50.466mW (17.03dBm)
	n71 (Channel Bandwidth: 15MHz)	226.986mW (23.56dBm)	113.240mW (20.54dBm)	114.025mW (20.57dBm)	98.628mW (19.94dBm)	50.933mW (17.07dBm)
	n71 (Channel Bandwidth: 20MHz)	222.331mW (23.47dBm)	115.611mW (20.63dBm)	112.980mW (20.53dBm)	100.925mW (20.04dBm)	50.816mW (17.06dBm)

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. This report is a supplementary report to the original BV CPS report no.: RF200514C16A-2. Exhibit prepared for FCC Spot Check Verification report, the format, test items and amount of spot-check test data are decided by applicant's engineering judgment, for more details please refer to declaration letter exhibit. Radiated emission and output power verification worst test refer to original report.
2. The antenna information is listed as below.

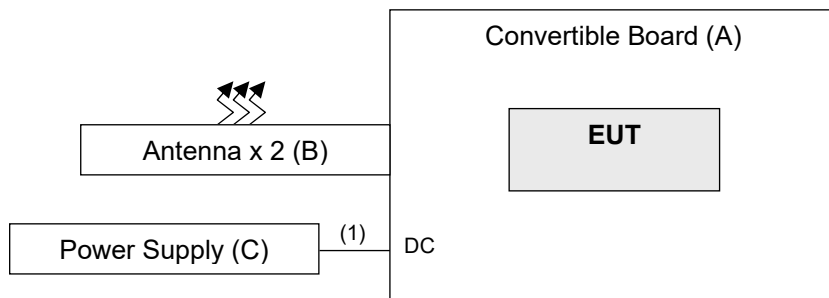
Operating frequency band	Antenna	Gain (dBi)	Connector Type
Band 2	5G/4G Terminal Mount Monopole Antenna	2.92	SMA
Band 5		1.01	
Band 7		2.20	
Band 12		-1.17	
Band 25		2.97	
Band 38		2.18	
Band 41		2.20	
Band 66		3.44	
Band 71		1.72	
Band 77		2.61	

* 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.

3. The EUT supports the following ENDC configuration.

	FCC 5G FR1			ENDC
	Band	SCS	Bandwidth (MHz)	
5G NR	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 2	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
-	Radiated Emission Below 1GHz	502000 to 512000	507000 (2535.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	502000 to 512000	507000 (2535.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

n38

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
-	Radiated Emission Below 1GHz	516000 to 522000	519000 (2595.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	516000 to 522000	519000 (2595.0MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

n41

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
-	Radiated Emission Below 1GHz	509202 to 528000	518598 (2592.99MHz)	100MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	509202 to 528000	518598 (2592.99MHz)	100MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

n66

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
-	Radiated Emission Below 1GHz	346000 to 352000	349000 (1745.0MHz)	40MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	346000 to 352000	349000 (1745.0MHz)	40MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

n71

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
-	Radiated Emission Below 1GHz	134600 to 137600	136100 (680.5MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	134600 to 137600	136100 (680.5MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

n77

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
-	Radiated Emission Below 1GHz	648000 to 664000	656000 (3840.00MHz)	40MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	648000 to 664000	656000 (3840.00MHz)	40MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

Test Condition:

Test Item	Environmental Conditions	Input Power (System)	Tested By
EIRP / ERP	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	23.74	23.75	23.74
		1	53	23.78	23.68	23.74
		1	105	23.17	23.22	23.30
		53	0	23.64	23.68	23.67
		53	27	23.63	23.65	23.54
		53	53	23.64	23.53	23.60
		106	0	23.65	23.58	23.68
	QPSK	1	0	20.83	20.79	20.90
		1	53	20.73	20.86	20.84
		1	105	20.29	20.40	20.24
		53	0	20.78	20.63	20.69
		53	27	20.63	20.80	20.66
		53	53	20.76	20.74	20.68
		106	0	20.77	20.62	20.60
	16QAM	1	0	20.65	20.63	20.66
		1	53	20.60	20.66	20.78
		1	105	20.23	20.15	20.14
		53	0	20.68	20.62	20.58
		53	27	20.57	20.52	20.68
		53	53	20.65	20.59	20.51
		106	0	20.50	20.60	20.50
	64QAM	1	0	20.30	20.24	20.17
		1	53	20.17	20.30	20.20
		1	105	19.63	19.80	19.80
		53	0	20.04	20.00	20.02
		53	27	20.03	20.00	20.09
		53	53	20.19	20.07	20.10
		106	0	20.15	20.07	20.08
	256QAM	1	0	17.26	17.14	17.24
		1	53	17.26	17.17	17.14
1		105	16.78	16.69	16.66	
53		0	17.03	17.12	17.16	
53		27	17.07	17.09	17.07	
53		53	17.04	17.09	17.01	
106		0	17.05	17.02	17.08	

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	23.68	23.71	23.65
		1	39	23.62	23.62	23.61
		1	78	23.20	23.12	23.22
		39	0	23.62	23.69	23.54
		39	19	23.64	23.50	23.61
		39	40	23.63	23.52	23.53
		79	0	23.66	23.56	23.59
	QPSK	1	0	20.80	20.72	20.82
		1	39	20.87	20.89	20.88
		1	78	20.28	20.38	20.37
		39	0	20.64	20.79	20.62
		39	19	20.66	20.76	20.72
		39	40	20.76	20.78	20.66
		79	0	20.60	20.73	20.61
	16QAM	1	0	20.69	20.60	20.72
		1	39	20.63	20.76	20.64
		1	78	20.13	20.16	20.17
		39	0	20.59	20.53	20.58
		39	19	20.51	20.61	20.59
		39	40	20.66	20.60	20.67
		79	0	20.52	20.53	20.56
	64QAM	1	0	20.25	20.23	20.15
		1	39	20.24	20.26	20.20
		1	78	19.65	19.63	19.79
		39	0	20.18	20.18	20.03
		39	19	20.07	20.11	20.20
		39	40	20.13	20.05	20.14
		79	0	20.09	20.11	20.10
	256QAM	1	0	17.17	17.27	17.27
		1	39	17.11	17.29	17.25
1		78	16.70	16.62	16.80	
39		0	17.15	17.09	17.11	
39		19	17.02	17.19	17.16	
39		40	17.06	17.19	17.19	
79		0	17.07	17.15	17.07	

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	23.74	23.79	23.66
		1	26	23.71	23.77	23.75
		1	51	23.12	23.17	23.18
		26	0	23.57	23.59	23.56
		26	13	23.63	23.52	23.50
		26	26	23.56	23.64	23.51
		52	0	23.65	23.62	23.58
	QPSK	1	0	20.90	20.90	20.72
		1	26	20.90	20.90	20.84
		1	51	20.40	20.27	20.23
		26	0	20.62	20.76	20.74
		26	13	20.67	20.74	20.78
		26	26	20.65	20.71	20.75
		52	0	20.80	20.61	20.75
	16QAM	1	0	20.63	20.75	20.67
		1	26	20.63	20.68	20.80
		1	51	20.23	20.10	20.29
		26	0	20.62	20.65	20.58
		26	13	20.69	20.69	20.61
		26	26	20.62	20.56	20.66
		52	0	20.59	20.62	20.51
	64QAM	1	0	20.28	20.13	20.26
		1	26	20.30	20.22	20.12
		1	51	19.72	19.62	19.71
		26	0	20.12	20.14	20.12
		26	13	20.06	20.09	20.00
		26	26	20.20	20.03	20.05
		52	0	20.04	20.13	20.13
	256QAM	1	0	17.10	17.30	17.26
		1	26	17.11	17.26	17.24
		1	51	16.60	16.67	16.79
		26	0	17.07	17.09	17.16
		26	13	17.13	17.03	17.07
		26	26	17.07	17.00	17.00
		52	0	17.12	17.09	17.17

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	23.69	23.67	23.78
		1	12	23.68	23.74	23.74
		1	24	23.15	23.19	23.18
		12	0	23.69	23.67	23.62
		12	6	23.67	23.60	23.60
		12	13	23.64	23.65	23.57
		25	0	23.70	23.67	23.69
	QPSK	1	0	20.86	20.87	20.90
		1	12	20.85	20.78	20.86
		1	24	20.30	20.34	20.25
		12	0	20.77	20.70	20.70
		12	6	20.77	20.77	20.65
		12	13	20.63	20.70	20.71
		25	0	20.76	20.68	20.64
	16QAM	1	0	20.76	20.78	20.73
		1	12	20.71	20.60	20.65
		1	24	20.30	20.28	20.28
		12	0	20.54	20.52	20.60
		12	6	20.60	20.59	20.51
		12	13	20.67	20.58	20.63
		25	0	20.64	20.56	20.61
	64QAM	1	0	20.29	20.26	20.17
		1	12	20.11	20.24	20.24
		1	24	19.72	19.80	19.66
		12	0	20.08	20.05	20.15
		12	6	20.10	20.18	20.14
		12	13	20.02	20.04	20.12
		25	0	20.15	20.04	20.07
	256QAM	1	0	17.16	17.11	17.20
		1	12	17.19	17.10	17.10
		1	24	16.61	16.65	16.77
		12	0	17.10	17.10	17.14
		12	6	17.16	17.16	17.07
		12	13	17.02	17.14	17.19
		25	0	17.20	17.14	17.19

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	23.29	23.22	23.14
		1	25	23.13	23.11	23.16
		1	50	22.92	22.91	23.09
		25	0	23.16	23.19	23.05
		25	12	23.09	23.14	23.09
		25	25	23.13	23.12	23.09
		51	0	23.05	23.07	22.91
	QPSK	1	0	20.34	20.38	20.29
		1	25	20.29	20.14	20.15
		1	50	20.03	20.18	20.11
		25	0	20.27	20.23	20.29
		25	12	20.14	20.16	20.25
		25	25	20.25	20.15	20.17
		51	0	20.17	20.01	20.18
	16QAM	1	0	20.25	20.17	20.17
		1	25	20.07	20.13	20.01
		1	50	20.09	20.08	19.96
		25	0	20.10	20.02	20.09
		25	12	20.11	20.08	20.20
		25	25	20.06	20.08	20.00
		51	0	20.02	20.02	19.99
	64QAM	1	0	19.74	19.78	19.72
		1	25	19.69	19.69	19.66
		1	50	19.60	19.60	19.53
		25	0	19.68	19.59	19.63
		25	12	19.54	19.63	19.56
		25	25	19.57	19.55	19.69
		51	0	19.60	19.47	19.59
	256QAM	1	0	16.78	16.66	16.75
		1	25	16.51	16.59	16.59
		1	50	16.58	16.50	16.52
		25	0	16.66	16.66	16.60
		25	12	16.61	16.65	16.51
		25	25	16.50	16.50	16.56
		51	0	16.40	16.56	16.46

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	23.13	23.26	23.15
		1	19	23.05	23.18	23.14
		1	37	23.03	22.91	22.90
		19	0	23.12	23.03	23.10
		19	9	23.00	23.06	23.13
		19	20	23.10	23.11	23.13
		38	0	23.09	22.94	23.01
	QPSK	1	0	20.39	20.31	20.26
		1	19	20.17	20.12	20.24
		1	37	20.11	20.17	20.06
		19	0	20.27	20.20	20.19
		19	9	20.10	20.11	20.26
		19	20	20.15	20.21	20.16
		38	0	20.01	20.00	20.15
	16QAM	1	0	20.11	20.17	20.30
		1	19	20.04	20.15	20.06
		1	37	19.90	20.09	20.03
		19	0	20.08	20.00	20.12
		19	9	20.18	20.01	20.13
		19	20	20.03	20.07	20.07
		38	0	19.99	20.07	20.10
	64QAM	1	0	19.76	19.63	19.77
		1	19	19.61	19.61	19.69
		1	37	19.43	19.50	19.50
		19	0	19.69	19.69	19.58
		19	9	19.50	19.70	19.62
		19	20	19.53	19.55	19.56
		38	0	19.46	19.50	19.46
	256QAM	1	0	16.73	16.80	16.79
		1	19	16.56	16.61	16.57
		1	37	16.45	16.55	16.59
		19	0	16.63	16.59	16.60
		19	9	16.53	16.57	16.63
		19	20	16.70	16.69	16.58
		38	0	16.52	16.50	16.55

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	23.22	23.19	23.22
		1	12	23.03	23.07	23.12
		1	23	23.09	22.96	22.93
		12	0	23.12	23.04	23.18
		12	6	23.09	23.16	23.03
		12	12	23.04	23.08	23.05
		24	0	22.92	23.05	23.01
	QPSK	1	0	20.20	20.39	20.34
		1	12	20.16	20.11	20.12
		1	23	20.13	20.06	20.14
		12	0	20.10	20.16	20.24
		12	6	20.15	20.16	20.28
		12	12	20.18	20.22	20.23
		24	0	20.03	20.15	20.18
	16QAM	1	0	20.17	20.22	20.21
		1	12	20.14	20.02	20.18
		1	23	19.99	19.97	20.02
		12	0	20.17	20.14	20.08
		12	6	20.02	20.06	20.09
		12	12	20.13	20.00	20.16
		24	0	20.04	20.09	19.98
	64QAM	1	0	19.67	19.75	19.68
		1	12	19.62	19.70	19.52
		1	23	19.44	19.59	19.55
		12	0	19.69	19.61	19.58
		12	6	19.53	19.52	19.67
		12	12	19.65	19.68	19.51
		24	0	19.60	19.44	19.50
	256QAM	1	0	16.80	16.63	16.65
		1	12	16.59	16.67	16.56
		1	23	16.51	16.57	16.43
		12	0	16.62	16.57	16.59
		12	6	16.56	16.57	16.61
		12	12	16.65	16.69	16.58
		24	0	16.47	16.54	16.46

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	23.30	23.37	23.44
		1	136	23.16	23.23	23.20
		1	272	22.74	22.84	22.79
		136	0	23.39	23.39	23.20
		136	68	23.40	23.35	23.29
		136	136	23.15	23.13	23.22
		273	0	23.26	23.10	23.20
	QPSK	1	0	20.42	20.54	20.59
		1	136	20.20	20.33	20.37
		1	272	19.99	19.85	19.98
		136	0	20.30	20.37	20.30
		136	68	20.37	20.43	20.35
		136	136	20.40	20.21	20.37
		273	0	20.26	20.21	20.23
	16QAM	1	0	20.38	20.43	20.42
		1	136	20.27	20.29	20.15
		1	272	19.76	19.84	19.88
		136	0	20.32	20.24	20.33
		136	68	20.28	20.25	20.23
		136	136	20.10	20.23	20.19
		273	0	20.16	20.25	20.26
	64QAM	1	0	20.00	19.87	19.92
		1	136	19.76	19.71	19.60
		1	272	19.28	19.40	19.38
		136	0	19.71	19.82	19.72
		136	68	19.86	19.73	19.88
		136	136	19.74	19.72	19.60
		273	0	19.69	19.79	19.67
	256QAM	1	0	16.94	16.82	16.80
		1	136	16.60	16.78	16.71
		1	272	16.28	16.30	16.27
		136	0	16.81	16.82	16.73
		136	68	16.90	16.89	16.84
		136	136	16.72	16.66	16.78
		273	0	16.71	16.67	16.64

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	23.46	23.32	23.30
		1	122	23.15	23.20	23.12
		1	244	22.79	22.72	22.82
		122	0	23.28	23.39	23.35
		122	61	23.29	23.22	23.34
		122	122	23.13	23.29	23.22
		245	0	23.10	23.11	23.26
	QPSK	1	0	20.51	20.46	20.54
		1	122	20.29	20.20	20.35
		1	244	19.81	20.00	19.80
		122	0	20.35	20.46	20.33
		122	61	20.49	20.46	20.48
		122	122	20.34	20.33	20.39
		245	0	20.30	20.38	20.32
	16QAM	1	0	20.34	20.49	20.37
		1	122	20.20	20.29	20.17
		1	244	19.86	19.88	19.82
		122	0	20.39	20.28	20.27
		122	61	20.39	20.24	20.33
		122	122	20.22	20.23	20.27
		245	0	20.19	20.28	20.15
	64QAM	1	0	20.00	19.92	19.91
		1	122	19.66	19.62	19.65
		1	244	19.29	19.25	19.25
		122	0	19.82	19.73	19.86
		122	61	19.70	19.83	19.89
		122	122	19.70	19.67	19.60
		245	0	19.63	19.68	19.64
256QAM	1	0	16.96	16.82	16.96	
	1	122	16.65	16.76	16.66	
	1	244	16.21	16.40	16.26	
	122	0	16.81	16.84	16.86	
	122	61	16.70	16.71	16.87	
	122	122	16.68	16.75	16.77	
	245	0	16.79	16.74	16.72	

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	23.35	23.32	23.30
		1	108	23.19	23.21	23.13
		1	216	22.83	22.72	22.86
		108	0	23.37	23.29	23.28
		108	54	23.26	23.28	23.24
		108	108	23.12	23.13	23.19
		217	0	23.16	23.30	23.20
	QPSK	1	0	20.47	20.51	20.52
		1	108	20.22	20.29	20.21
		1	216	19.92	20.00	19.92
		108	0	20.50	20.45	20.40
		108	54	20.42	20.36	20.40
		108	108	20.38	20.22	20.38
		217	0	20.28	20.31	20.26
	16QAM	1	0	20.39	20.36	20.43
		1	108	20.11	20.18	20.16
		1	216	19.70	19.75	19.79
		108	0	20.20	20.21	20.28
		108	54	20.23	20.34	20.34
		108	108	20.13	20.19	20.22
		217	0	20.26	20.11	20.25
	64QAM	1	0	19.94	19.87	19.85
		1	108	19.60	19.63	19.73
		1	216	19.24	19.31	19.26
		108	0	19.70	19.70	19.74
		108	54	19.81	19.83	19.75
		108	108	19.66	19.80	19.79
		217	0	19.63	19.65	19.66
	256QAM	1	0	16.92	16.89	17.00
		1	108	16.79	16.71	16.78
1		216	16.24	16.23	16.26	
108		0	16.72	16.88	16.73	
108		54	16.79	16.70	16.83	
108		108	16.60	16.68	16.74	
217		0	16.77	16.60	16.65	

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	23.35	23.30	23.41
		1	81	23.15	23.10	23.16
		1	161	22.86	22.78	22.70
		81	0	23.29	23.22	23.30
		81	40	23.39	23.21	23.40
		81	81	23.10	23.22	23.22
		162	0	23.21	23.23	23.25
	QPSK	1	0	20.54	20.50	20.56
		1	81	20.30	20.33	20.36
		1	161	19.95	19.81	19.99
		81	0	20.37	20.30	20.48
		81	40	20.48	20.33	20.31
		81	81	20.24	20.25	20.40
		162	0	20.22	20.38	20.32
	16QAM	1	0	20.40	20.33	20.48
		1	81	20.14	20.15	20.15
		1	161	19.80	19.80	19.87
		81	0	20.31	20.32	20.40
		81	40	20.33	20.27	20.35
		81	81	20.30	20.21	20.30
		162	0	20.24	20.21	20.16
	64QAM	1	0	19.88	19.85	19.84
		1	81	19.60	19.61	19.80
		1	161	19.25	19.40	19.36
		81	0	19.90	19.86	19.80
		81	40	19.87	19.77	19.84
		81	81	19.60	19.60	19.69
		162	0	19.69	19.77	19.79
	256QAM	1	0	16.98	16.96	17.00
		1	81	16.77	16.68	16.75
		1	161	16.33	16.23	16.36
		81	0	16.90	16.86	16.78
		81	40	16.87	16.74	16.75
		81	81	16.77	16.73	16.61
		162	0	16.65	16.80	16.79

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	23.41	23.37	23.49
		1	66	23.24	23.14	23.28
		1	132	22.79	22.84	22.72
		66	0	23.36	23.40	23.33
		66	33	23.30	23.29	23.32
		66	66	23.25	23.30	23.29
		133	0	23.15	23.12	23.16
	QPSK	1	0	20.58	20.58	20.48
		1	66	20.38	20.23	20.25
		1	132	19.99	19.98	19.91
		66	0	20.43	20.36	20.33
		66	33	20.41	20.49	20.35
		66	66	20.23	20.37	20.40
		133	0	20.40	20.31	20.27
	16QAM	1	0	20.42	20.39	20.32
		1	66	20.21	20.15	20.17
		1	132	19.90	19.82	19.90
		66	0	20.40	20.30	20.22
		66	33	20.27	20.23	20.30
		66	66	20.29	20.20	20.29
		133	0	20.21	20.16	20.25
	64QAM	1	0	19.88	19.85	19.98
		1	66	19.61	19.78	19.62
		1	132	19.37	19.35	19.23
		66	0	19.71	19.84	19.79
		66	33	19.88	19.87	19.81
		66	66	19.67	19.73	19.78
		133	0	19.80	19.68	19.68
	256QAM	1	0	16.84	16.83	16.84
		1	66	16.72	16.60	16.80
1		132	16.38	16.35	16.31	
66		0	16.80	16.83	16.83	
66		33	16.89	16.89	16.74	
66		66	16.74	16.66	16.75	
133		0	16.72	16.66	16.74	

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	23.36	23.34	23.31
		1	53	23.22	23.18	23.10
		1	105	22.70	22.86	22.75
		53	0	23.21	23.33	23.39
		53	26	23.34	23.24	23.38
		53	53	23.21	23.19	23.15
		106	0	23.16	23.27	23.22
	QPSK	1	0	20.59	20.46	20.52
		1	53	20.34	20.40	20.23
		1	105	19.85	19.85	19.86
		53	0	20.47	20.33	20.47
		53	26	20.44	20.44	20.36
		53	53	20.20	20.38	20.40
		106	0	20.29	20.39	20.28
	16QAM	1	0	20.45	20.49	20.49
		1	53	20.11	20.22	20.17
		1	105	19.75	19.79	19.70
		53	0	20.36	20.31	20.24
		53	26	20.25	20.20	20.25
		53	53	20.13	20.12	20.17
		106	0	20.25	20.24	20.10
	64QAM	1	0	19.89	19.83	20.00
		1	53	19.63	19.61	19.66
		1	105	19.25	19.38	19.26
		53	0	19.71	19.80	19.71
		53	26	19.85	19.78	19.80
		53	53	19.76	19.66	19.65
		106	0	19.69	19.71	19.65
	256QAM	1	0	16.94	16.90	16.88
		1	53	16.60	16.69	16.75
1		105	16.21	16.28	16.25	
53		0	16.77	16.78	16.88	
53		26	16.88	16.76	16.77	
53		53	16.69	16.64	16.80	
106		0	16.66	16.62	16.62	

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	23.32	23.48	23.31
		1	25	23.24	23.14	23.16
		1	50	22.70	22.88	22.70
		25	0	23.24	23.31	23.39
		25	12	23.38	23.35	23.26
		25	25	23.30	23.28	23.11
		51	0	23.17	23.20	23.22
	QPSK	1	0	20.41	20.58	20.44
		1	25	20.36	20.23	20.28
		1	50	19.81	19.86	20.00
		25	0	20.48	20.49	20.42
		25	12	20.46	20.30	20.32
		25	25	20.24	20.22	20.36
		51	0	20.28	20.26	20.40
	16QAM	1	0	20.47	20.48	20.39
		1	25	20.13	20.30	20.18
		1	50	19.90	19.79	19.86
		25	0	20.24	20.33	20.32
		25	12	20.29	20.36	20.25
		25	25	20.24	20.11	20.30
		51	0	20.12	20.17	20.26
	64QAM	1	0	19.94	19.91	19.84
		1	25	19.80	19.77	19.60
		1	50	19.36	19.32	19.38
		25	0	19.79	19.77	19.71
		25	12	19.86	19.75	19.88
		25	25	19.66	19.70	19.62
		51	0	19.62	19.64	19.62
	256QAM	1	0	16.80	16.98	16.86
		1	25	16.70	16.66	16.80
		1	50	16.28	16.33	16.39
		25	0	16.82	16.75	16.86
		25	12	16.86	16.89	16.75
		25	25	16.66	16.61	16.76
		51	0	16.72	16.65	16.63

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	23.47	23.39	23.30
		1	19	23.22	23.20	23.21
		1	37	22.83	22.88	22.78
		19	0	23.36	23.33	23.25
		19	9	23.28	23.36	23.35
		19	20	23.17	23.19	23.22
		38	0	23.27	23.18	23.14
	QPSK	1	0	20.52	20.57	20.49
		1	19	20.32	20.39	20.30
		1	37	19.96	19.83	19.86
		19	0	20.48	20.35	20.44
		19	9	20.38	20.40	20.37
		19	20	20.35	20.40	20.30
		38	0	20.36	20.28	20.40
	16QAM	1	0	20.46	20.37	20.42
		1	19	20.26	20.15	20.30
		1	37	19.73	19.88	19.70
		19	0	20.33	20.27	20.21
		19	9	20.23	20.33	20.24
		19	20	20.21	20.21	20.21
		38	0	20.15	20.22	20.30
	64QAM	1	0	19.87	19.82	20.00
		1	19	19.60	19.65	19.76
		1	37	19.37	19.34	19.31
		19	0	19.83	19.75	19.70
		19	9	19.87	19.72	19.79
		19	20	19.67	19.76	19.69
		38	0	19.68	19.63	19.64
	256QAM	1	0	16.88	16.86	16.82
		1	19	16.66	16.71	16.60
		1	37	16.20	16.22	16.34
		19	0	16.71	16.76	16.71
		19	9	16.75	16.80	16.70
		19	20	16.75	16.62	16.70
		38	0	16.70	16.76	16.69

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	23.38	23.37	23.42
		1	12	23.30	23.29	23.21
		1	23	22.75	22.70	22.89
		12	0	23.28	23.24	23.37
		12	6	23.34	23.37	23.36
		12	12	23.11	23.19	23.11
		24	0	23.22	23.11	23.30
	QPSK	1	0	20.53	20.47	20.59
		1	12	20.40	20.20	20.39
		1	23	20.00	20.00	20.00
		12	0	20.43	20.34	20.35
		12	6	20.30	20.36	20.33
		12	12	20.31	20.23	20.28
		24	0	20.30	20.22	20.20
	16QAM	1	0	20.32	20.36	20.32
		1	12	20.16	20.22	20.22
		1	23	19.77	19.81	19.75
		12	0	20.37	20.36	20.20
		12	6	20.20	20.34	20.34
		12	12	20.17	20.22	20.12
		24	0	20.24	20.19	20.27
	64QAM	1	0	19.84	19.86	19.92
		1	12	19.77	19.80	19.69
		1	23	19.23	19.37	19.25
		12	0	19.89	19.80	19.85
		12	6	19.76	19.76	19.81
		12	12	19.76	19.79	19.76
		24	0	19.70	19.61	19.62
	256QAM	1	0	16.93	16.90	16.91
		1	12	16.73	16.63	16.60
		1	23	16.32	16.33	16.30
		12	0	16.86	16.84	16.73
		12	6	16.90	16.70	16.90
		12	12	16.78	16.77	16.62
		24	0	16.74	16.61	16.71

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	23.28	23.23	23.27
		1	108	23.67	23.77	23.72
		1	215	23.63	23.60	23.75
		108	0	23.51	23.57	23.64
		108	53	23.65	23.53	23.61
		108	107	23.68	23.70	23.55
		216	0	23.64	23.70	23.67
	QPSK	1	0	20.44	20.42	20.40
		1	108	20.81	20.78	20.81
		1	215	20.79	20.82	20.88
		108	0	20.72	20.79	20.63
		108	53	20.76	20.63	20.61
		108	107	20.78	20.79	20.77
		216	0	20.68	20.62	20.77
	16QAM	1	0	20.35	20.35	20.35
		1	108	20.66	20.65	20.75
		1	215	20.62	20.61	20.79
		108	0	20.65	20.69	20.63
		108	53	20.56	20.66	20.61
		108	107	20.60	20.67	20.68
		216	0	20.69	20.60	20.70
	64QAM	1	0	19.78	19.79	19.78
		1	108	20.17	20.16	20.14
		1	215	20.12	20.11	20.16
		108	0	20.00	20.18	20.06
		108	53	20.11	20.17	20.09
		108	107	20.13	20.07	20.13
		216	0	20.14	20.06	20.13
	256QAM	1	0	16.74	16.77	16.89
		1	108	17.14	17.25	17.28
1		215	17.26	17.25	17.26	
108		0	17.09	17.19	17.19	
108		53	17.17	17.14	17.07	
108		107	17.01	17.06	17.05	
216		0	17.10	17.09	17.03	

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	23.28	23.26	23.34
		1	53	23.75	23.77	23.74
		1	105	23.70	23.63	23.71
		53	0	23.58	23.51	23.66
		53	27	23.65	23.63	23.52
		53	53	23.68	23.66	23.64
		106	0	23.58	23.60	23.64
	QPSK	1	0	20.49	20.42	20.32
		1	53	20.87	20.84	20.84
		1	105	20.90	20.70	20.74
		53	0	20.67	20.75	20.68
		53	27	20.61	20.80	20.69
		53	53	20.79	20.66	20.66
		106	0	20.66	20.67	20.70
	16QAM	1	0	20.37	20.31	20.25
		1	53	20.74	20.63	20.60
		1	105	20.76	20.61	20.71
		53	0	20.62	20.63	20.53
		53	27	20.65	20.60	20.66
		53	53	20.51	20.69	20.53
		106	0	20.62	20.63	20.68
	64QAM	1	0	19.87	19.87	19.81
		1	53	20.10	20.23	20.24
		1	105	20.20	20.22	20.30
		53	0	20.00	20.11	20.04
		53	27	20.12	20.06	20.11
		53	53	20.01	20.05	20.04
		106	0	20.03	20.20	20.12
	256QAM	1	0	16.88	16.71	16.75
		1	53	17.18	17.29	17.18
		1	105	17.26	17.13	17.24
		53	0	17.00	17.19	17.05
		53	27	17.05	17.04	17.05
		53	53	17.16	17.10	17.05
		106	0	17.20	17.08	17.10

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	23.21	23.36	23.35
		1	39	23.66	23.62	23.69
		1	78	23.80	23.76	23.72
		39	0	23.65	23.60	23.52
		39	19	23.61	23.64	23.58
		39	40	23.54	23.51	23.58
		79	0	23.58	23.69	23.54
	QPSK	1	0	20.49	20.38	20.42
		1	39	20.85	20.77	20.79
		1	78	20.86	20.86	20.90
		39	0	20.66	20.66	20.70
		39	19	20.61	20.62	20.61
		39	40	20.68	20.67	20.64
		79	0	20.73	20.71	20.65
	16QAM	1	0	20.32	20.24	20.24
		1	39	20.62	20.66	20.69
		1	78	20.75	20.68	20.77
		39	0	20.61	20.61	20.50
		39	19	20.63	20.54	20.52
		39	40	20.59	20.57	20.50
		79	0	20.59	20.54	20.50
	64QAM	1	0	19.74	19.88	19.74
		1	39	20.11	20.12	20.28
		1	78	20.13	20.23	20.14
		39	0	20.03	20.00	20.06
		39	19	20.12	20.09	20.06
		39	40	20.13	20.05	20.07
		79	0	20.02	20.20	20.20
	256QAM	1	0	16.87	16.80	16.75
		1	39	17.29	17.28	17.10
		1	78	17.13	17.10	17.12
		39	0	17.04	17.03	17.14
		39	19	17.05	17.13	17.06
		39	40	17.07	17.13	17.12
		79	0	17.13	17.04	17.15

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	23.27	23.37	23.33
		1	26	23.67	23.72	23.78
		1	51	23.68	23.69	23.68
		26	0	23.65	23.51	23.68
		26	13	23.52	23.52	23.66
		26	26	23.62	23.63	23.64
		52	0	23.63	23.66	23.61
	QPSK	1	0	20.33	20.31	20.43
		1	26	20.73	20.87	20.85
		1	51	20.88	20.88	20.73
		26	0	20.79	20.61	20.67
		26	13	20.74	20.60	20.64
		26	26	20.60	20.67	20.62
		52	0	20.77	20.70	20.67
	16QAM	1	0	20.36	20.35	20.33
		1	26	20.69	20.73	20.73
		1	51	20.70	20.73	20.67
		26	0	20.67	20.64	20.50
		26	13	20.64	20.68	20.60
		26	26	20.51	20.59	20.64
		52	0	20.65	20.50	20.53
	64QAM	1	0	19.90	19.86	19.77
		1	26	20.20	20.21	20.26
		1	51	20.15	20.14	20.30
		26	0	20.01	20.18	20.15
		26	13	20.03	20.20	20.12
		26	26	20.12	20.05	20.14
		52	0	20.16	20.06	20.06
	256QAM	1	0	16.72	16.75	16.80
		1	26	17.16	17.13	17.28
		1	51	17.25	17.12	17.16
		26	0	17.14	17.10	17.03
		26	13	17.15	17.03	17.08
		26	26	17.13	17.00	17.01
		52	0	17.18	17.15	17.17

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	23.26	23.25	23.30
		1	12	23.64	23.75	23.64
		1	24	23.72	23.69	23.65
		12	0	23.66	23.52	23.68
		12	6	23.56	23.70	23.67
		12	13	23.53	23.61	23.62
		25	0	23.56	23.62	23.53
	QPSK	1	0	20.48	20.36	20.43
		1	12	20.70	20.76	20.84
		1	24	20.70	20.73	20.89
		12	0	20.79	20.75	20.68
		12	6	20.60	20.66	20.75
		12	13	20.65	20.80	20.67
		25	0	20.64	20.80	20.60
	16QAM	1	0	20.28	20.20	20.22
		1	12	20.78	20.64	20.80
		1	24	20.65	20.78	20.69
		12	0	20.66	20.70	20.56
		12	6	20.54	20.56	20.70
		12	13	20.62	20.64	20.66
		25	0	20.70	20.64	20.57
	64QAM	1	0	19.84	19.72	19.70
		1	12	20.28	20.17	20.15
		1	24	20.19	20.12	20.18
		12	0	20.10	20.15	20.04
		12	6	20.13	20.17	20.00
		12	13	20.06	20.13	20.19
		25	0	20.06	20.11	20.00
	256QAM	1	0	16.70	16.88	16.71
		1	12	17.10	17.23	17.17
		1	24	17.21	17.14	17.26
		12	0	17.18	17.08	17.11
		12	6	17.09	17.01	17.04
		12	13	17.05	17.19	17.16
		25	0	17.08	17.00	17.18

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	23.88	23.90
		1	53	23.65	23.73	23.63
		1	105	23.67	23.75	23.72
		53	0	23.59	23.67	23.60
		53	27	23.53	23.60	23.64
		53	53	23.57	23.61	23.59
		106	0	23.53	23.64	23.70
	QPSK	1	0	21.05	21.01	21.06
		1	53	20.70	20.74	20.79
		1	105	20.70	20.83	20.90
		53	0	20.69	20.73	20.79
		53	27	20.76	20.80	20.79
		53	53	20.76	20.63	20.76
		106	0	20.72	20.73	20.63
	16QAM	1	0	20.87	20.96	20.85
		1	53	20.74	20.79	20.79
		1	105	20.78	20.65	20.74
		53	0	20.50	20.68	20.53
		53	27	20.51	20.50	20.57
		53	53	20.64	20.56	20.64
		106	0	20.58	20.70	20.67
	64QAM	1	0	20.46	20.43	20.47
		1	53	20.14	20.27	20.21
		1	105	20.16	20.21	20.11
		53	0	20.14	20.06	20.05
		53	27	20.06	20.15	20.07
		53	53	20.20	20.11	20.09
		106	0	20.05	20.12	20.07
	256QAM	1	0	17.35	17.49	17.31
		1	53	17.14	17.25	17.13
1		105	17.24	17.29	17.29	
53		0	17.17	17.10	17.00	
53		27	17.05	17.03	17.20	
53		53	17.13	17.08	17.16	
106		0	17.14	17.00	17.20	

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	23.92	23.91	23.99
		1	39	23.78	23.72	23.80
		1	78	23.74	23.74	23.72
		39	0	23.66	23.57	23.67
		39	19	23.58	23.50	23.50
		39	40	23.50	23.54	23.59
		79	0	23.70	23.65	23.66
	QPSK	1	0	20.90	20.97	20.90
		1	39	20.70	20.79	20.82
		1	78	20.73	20.80	20.75
		39	0	20.80	20.78	20.68
		39	19	20.76	20.60	20.80
		39	40	20.60	20.66	20.76
		79	0	20.72	20.71	20.79
	16QAM	1	0	21.00	20.82	20.92
		1	39	20.75	20.67	20.78
		1	78	20.78	20.65	20.62
		39	0	20.65	20.59	20.64
		39	19	20.52	20.62	20.60
		39	40	20.64	20.55	20.69
		79	0	20.54	20.61	20.61
	64QAM	1	0	20.33	20.35	20.37
		1	39	20.21	20.12	20.17
		1	78	20.12	20.25	20.13
		39	0	20.12	20.19	20.14
		39	19	20.20	20.08	20.15
		39	40	20.14	20.12	20.11
		79	0	20.10	20.05	20.12
	256QAM	1	0	17.50	17.30	17.36
		1	39	17.12	17.29	17.16
		1	78	17.10	17.30	17.10
		39	0	17.12	17.20	17.00
		39	19	17.11	17.09	17.05
		39	40	17.07	17.02	17.19
		79	0	17.10	17.02	17.06

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	23.85	23.90	23.90
		1	26	23.68	23.78	23.68
		1	51	23.61	23.63	23.63
		26	0	23.53	23.55	23.60
		26	13	23.66	23.62	23.68
		26	26	23.57	23.67	23.70
		52	0	23.61	23.63	23.64
	QPSK	1	0	21.07	21.10	21.07
		1	26	20.80	20.80	20.89
		1	51	20.88	20.79	20.86
		26	0	20.79	20.64	20.80
		26	13	20.65	20.78	20.66
		26	26	20.71	20.75	20.74
		52	0	20.69	20.78	20.63
	16QAM	1	0	20.92	20.83	20.98
		1	26	20.74	20.75	20.60
		1	51	20.64	20.74	20.71
		26	0	20.55	20.50	20.65
		26	13	20.60	20.56	20.51
		26	26	20.60	20.64	20.61
		52	0	20.59	20.67	20.56
	64QAM	1	0	20.45	20.43	20.35
		1	26	20.16	20.22	20.15
		1	51	20.22	20.14	20.12
		26	0	20.07	20.15	20.19
		26	13	20.13	20.09	20.19
		26	26	20.10	20.13	20.13
		52	0	20.18	20.06	20.17
	256QAM	1	0	17.34	17.46	17.42
		1	26	17.13	17.27	17.18
		1	51	17.27	17.18	17.19
		26	0	17.17	17.12	17.12
		26	13	17.08	17.07	17.09
		26	26	17.09	17.06	17.18
		52	0	17.10	17.05	17.20

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	24.00	23.96	23.98
		1	12	23.69	23.65	23.78
		1	24	23.73	23.68	23.69
		12	0	23.52	23.60	23.59
		12	6	23.63	23.54	23.64
		12	13	23.53	23.59	23.66
		25	0	23.63	23.63	23.52
	QPSK	1	0	21.08	21.09	20.95
		1	12	20.74	20.75	20.78
		1	24	20.74	20.85	20.70
		12	0	20.64	20.80	20.75
		12	6	20.67	20.65	20.80
		12	13	20.65	20.76	20.75
		25	0	20.64	20.73	20.78
	16QAM	1	0	20.83	20.98	20.85
		1	12	20.78	20.80	20.70
		1	24	20.77	20.64	20.69
		12	0	20.64	20.55	20.51
		12	6	20.50	20.60	20.60
		12	13	20.53	20.67	20.70
		25	0	20.51	20.63	20.53
	64QAM	1	0	20.43	20.39	20.34
		1	12	20.22	20.16	20.17
		1	24	20.30	20.11	20.27
		12	0	20.16	20.07	20.09
		12	6	20.17	20.11	20.19
		12	13	20.08	20.19	20.11
		25	0	20.12	20.20	20.08
	256QAM	1	0	17.43	17.49	17.42
		1	12	17.29	17.24	17.23
		1	24	17.17	17.30	17.10
		12	0	17.20	17.14	17.04
		12	6	17.11	17.07	17.09
		12	13	17.03	17.00	17.02
		25	0	17.17	17.00	17.11

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	23.03	23.06	23.03
		1	136	23.33	23.28	23.34
		1	272	23.25	23.10	23.19
		136	0	23.18	23.28	23.14
		136	68	23.21	23.13	23.13
		136	136	23.28	23.26	23.29
		273	0	23.19	23.19	23.26
	QPSK	1	0	20.19	20.14	20.16
		1	136	20.45	20.44	20.32
		1	272	20.29	20.31	20.24
		136	0	20.38	20.33	20.22
		136	68	20.39	20.23	20.27
		136	136	20.28	20.28	20.26
		273	0	20.34	20.27	20.35
	16QAM	1	0	20.03	20.18	20.09
		1	136	20.30	20.34	20.29
		1	272	20.12	20.22	20.25
		136	0	20.22	20.16	20.13
		136	68	20.28	20.23	20.24
		136	136	20.14	20.11	20.21
		273	0	20.16	20.27	20.26
	64QAM	1	0	19.69	19.62	19.53
		1	136	19.89	19.71	19.83
		1	272	19.72	19.61	19.71
		136	0	19.66	19.72	19.67
		136	68	19.77	19.63	19.71
		136	136	19.63	19.65	19.66
		273	0	19.73	19.77	19.74
	256QAM	1	0	16.51	16.70	16.62
		1	136	16.75	16.89	16.79
		1	272	16.60	16.64	16.74
		136	0	16.63	16.80	16.70
		136	68	16.79	16.74	16.72
		136	136	16.69	16.71	16.60
		273	0	16.79	16.64	16.61

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	23.03	23.09	23.16
		1	122	23.22	23.21	23.27
		1	244	23.19	23.25	23.26
		122	0	23.22	23.23	23.19
		122	61	23.17	23.20	23.19
		122	122	23.28	23.14	23.28
		245	0	23.27	23.14	23.13
	QPSK	1	0	20.30	20.16	20.28
		1	122	20.47	20.36	20.43
		1	244	20.31	20.34	20.29
		122	0	20.38	20.37	20.20
		122	61	20.33	20.24	20.27
		122	122	20.26	20.24	20.29
		245	0	20.35	20.33	20.39
	16QAM	1	0	20.03	20.17	20.00
		1	122	20.38	20.28	20.31
		1	244	20.28	20.26	20.24
		122	0	20.13	20.10	20.30
		122	61	20.27	20.13	20.19
		122	122	20.18	20.29	20.30
		245	0	20.12	20.11	20.20
	64QAM	1	0	19.68	19.65	19.69
		1	122	19.86	19.83	19.87
		1	244	19.79	19.62	19.60
		122	0	19.74	19.80	19.73
		122	61	19.65	19.61	19.74
		122	122	19.71	19.77	19.69
		245	0	19.69	19.75	19.78
	256QAM	1	0	16.57	16.50	16.64
		1	122	16.89	16.85	16.87
1		244	16.73	16.78	16.60	
122		0	16.80	16.62	16.67	
122		61	16.60	16.78	16.74	
122		122	16.62	16.72	16.71	
245		0	16.75	16.62	16.70	

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	23.15	23.10	23.16
		1	108	23.22	23.20	23.25
		1	216	23.21	23.15	23.26
		108	0	23.17	23.23	23.15
		108	54	23.25	23.15	23.25
		108	108	23.15	23.22	23.27
		217	0	23.22	23.13	23.14
	QPSK	1	0	20.17	20.20	20.13
		1	108	20.43	20.42	20.41
		1	216	20.21	20.29	20.35
		108	0	20.33	20.36	20.20
		108	54	20.23	20.29	20.24
		108	108	20.36	20.25	20.24
		217	0	20.34	20.26	20.31
	16QAM	1	0	20.16	20.08	20.13
		1	108	20.20	20.24	20.27
		1	216	20.22	20.30	20.16
		108	0	20.18	20.29	20.14
		108	54	20.25	20.25	20.28
		108	108	20.21	20.28	20.18
		217	0	20.12	20.19	20.13
	64QAM	1	0	19.68	19.52	19.66
		1	108	19.88	19.82	19.90
		1	216	19.77	19.79	19.76
		108	0	19.68	19.69	19.71
		108	54	19.77	19.63	19.80
		108	108	19.80	19.73	19.71
		217	0	19.80	19.71	19.63
	256QAM	1	0	16.57	16.61	16.57
		1	108	16.77	16.85	16.74
1		216	16.62	16.69	16.73	
108		0	16.61	16.62	16.76	
108		54	16.66	16.64	16.62	
108		108	16.62	16.73	16.77	
217		0	16.72	16.63	16.65	

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	23.08	23.10	23.01
		1	81	23.39	23.27	23.34
		1	161	23.19	23.25	23.25
		81	0	23.22	23.30	23.29
		81	40	23.19	23.12	23.30
		81	81	23.11	23.30	23.17
		162	0	23.28	23.11	23.13
	QPSK	1	0	20.13	20.23	20.24
		1	81	20.36	20.33	20.33
		1	161	20.20	20.27	20.22
		81	0	20.31	20.22	20.22
		81	40	20.29	20.39	20.26
		81	81	20.30	20.35	20.21
		162	0	20.21	20.25	20.27
	16QAM	1	0	20.11	20.03	20.12
		1	81	20.40	20.33	20.29
		1	161	20.30	20.26	20.11
		81	0	20.19	20.13	20.15
		81	40	20.25	20.12	20.24
		81	81	20.24	20.22	20.10
		162	0	20.19	20.30	20.13
	64QAM	1	0	19.69	19.59	19.57
		1	81	19.76	19.90	19.77
		1	161	19.79	19.65	19.64
		81	0	19.78	19.65	19.68
		81	40	19.75	19.69	19.79
		81	81	19.73	19.75	19.67
		162	0	19.67	19.65	19.62
	256QAM	1	0	16.68	16.50	16.60
		1	81	16.81	16.87	16.80
		1	161	16.80	16.65	16.71
		81	0	16.71	16.68	16.60
		81	40	16.73	16.71	16.80
		81	81	16.70	16.80	16.68
		162	0	16.78	16.80	16.74

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	23.12	23.03	23.04
		1	66	23.33	23.33	23.40
		1	132	23.14	23.29	23.12
		66	0	23.17	23.16	23.24
		66	33	23.25	23.11	23.19
		66	66	23.24	23.13	23.14
		133	0	23.25	23.17	23.13
	QPSK	1	0	20.21	20.22	20.11
		1	66	20.43	20.41	20.49
		1	132	20.25	20.21	20.25
		66	0	20.39	20.24	20.23
		66	33	20.24	20.34	20.34
		66	66	20.31	20.35	20.36
		133	0	20.36	20.33	20.38
	16QAM	1	0	20.11	20.03	20.04
		1	66	20.38	20.21	20.39
		1	132	20.11	20.29	20.20
		66	0	20.30	20.28	20.20
		66	33	20.29	20.18	20.19
		66	66	20.26	20.25	20.14
		133	0	20.14	20.16	20.12
	64QAM	1	0	19.58	19.61	19.61
		1	66	19.85	19.85	19.74
		1	132	19.60	19.80	19.77
		66	0	19.75	19.72	19.71
		66	33	19.64	19.65	19.74
		66	66	19.68	19.68	19.62
		133	0	19.63	19.65	19.65
256QAM	1	0	16.64	16.67	16.55	
	1	66	16.72	16.75	16.77	
	1	132	16.60	16.69	16.65	
	66	0	16.67	16.69	16.69	
	66	33	16.79	16.75	16.69	
	66	66	16.78	16.79	16.64	
	133	0	16.71	16.75	16.70	

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	23.19	23.12	23.07
		1	53	23.39	23.21	23.38
		1	105	23.16	23.27	23.15
		53	0	23.30	23.23	23.25
		53	26	23.14	23.13	23.12
		53	53	23.22	23.29	23.19
		106	0	23.11	23.21	23.21
	QPSK	1	0	20.20	20.28	20.25
		1	53	20.36	20.41	20.43
		1	105	20.36	20.31	20.40
		53	0	20.21	20.30	20.22
		53	26	20.32	20.20	20.34
		53	53	20.25	20.39	20.28
		106	0	20.32	20.40	20.36
	16QAM	1	0	20.04	20.20	20.04
		1	53	20.22	20.33	20.29
		1	105	20.25	20.17	20.27
		53	0	20.30	20.30	20.28
		53	26	20.10	20.21	20.15
		53	53	20.29	20.12	20.27
		106	0	20.29	20.23	20.20
	64QAM	1	0	19.60	19.55	19.61
		1	53	19.80	19.82	19.71
		1	105	19.75	19.60	19.61
		53	0	19.65	19.79	19.68
		53	26	19.72	19.71	19.71
		53	53	19.62	19.60	19.74
		106	0	19.60	19.72	19.68
	256QAM	1	0	16.64	16.57	16.67
		1	53	16.76	16.70	16.83
		1	105	16.60	16.75	16.75
		53	0	16.68	16.77	16.74
		53	26	16.68	16.73	16.77
		53	53	16.73	16.77	16.64
		106	0	16.72	16.77	16.61

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	23.06	23.13	23.01
		1	25	23.39	23.27	23.32
		1	50	23.30	23.19	23.19
		25	0	23.22	23.17	23.23
		25	12	23.19	23.12	23.18
		25	25	23.15	23.18	23.27
		51	0	23.22	23.30	23.13
	QPSK	1	0	20.28	20.24	20.14
		1	25	20.42	20.43	20.43
		1	50	20.25	20.34	20.25
		25	0	20.20	20.36	20.39
		25	12	20.39	20.20	20.35
		25	25	20.36	20.34	20.38
		51	0	20.30	20.27	20.32
	16QAM	1	0	20.10	20.00	20.09
		1	25	20.25	20.22	20.22
		1	50	20.16	20.13	20.30
		25	0	20.27	20.29	20.17
		25	12	20.24	20.12	20.18
		25	25	20.12	20.20	20.18
		51	0	20.24	20.25	20.20
	64QAM	1	0	19.64	19.56	19.62
		1	25	19.84	19.82	19.74
		1	50	19.68	19.71	19.68
		25	0	19.62	19.69	19.75
		25	12	19.62	19.78	19.60
		25	25	19.77	19.73	19.80
		51	0	19.75	19.66	19.80
	256QAM	1	0	16.53	16.70	16.51
		1	25	16.87	16.78	16.82
1		50	16.71	16.76	16.64	
25		0	16.65	16.74	16.67	
25		12	16.62	16.68	16.77	
25		25	16.71	16.71	16.65	
51		0	16.62	16.69	16.61	

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	23.12	23.16	23.00
		1	19	23.37	23.26	23.32
		1	37	23.18	23.29	23.14
		19	0	23.23	23.15	23.17
		19	9	23.22	23.15	23.17
		19	20	23.11	23.21	23.10
		38	0	23.14	23.20	23.24
	QPSK	1	0	20.22	20.15	20.10
		1	19	20.34	20.48	20.35
		1	37	20.29	20.21	20.38
		19	0	20.23	20.20	20.24
		19	9	20.22	20.23	20.33
		19	20	20.21	20.38	20.25
		38	0	20.31	20.24	20.29
	16QAM	1	0	20.00	20.10	20.16
		1	19	20.39	20.32	20.20
		1	37	20.21	20.18	20.16
		19	0	20.18	20.27	20.25
		19	9	20.14	20.18	20.30
		19	20	20.20	20.15	20.15
		38	0	20.13	20.15	20.14
	64QAM	1	0	19.52	19.50	19.66
		1	19	19.78	19.70	19.80
		1	37	19.61	19.60	19.74
		19	0	19.79	19.79	19.63
		19	9	19.75	19.75	19.80
		19	20	19.80	19.80	19.68
		38	0	19.73	19.60	19.61
	256QAM	1	0	16.67	16.59	16.70
		1	19	16.79	16.73	16.75
		1	37	16.76	16.75	16.80
		19	0	16.70	16.79	16.69
		19	9	16.79	16.61	16.69
		19	20	16.62	16.79	16.75
		38	0	16.71	16.74	16.68

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	23.14	23.08	23.02
		1	12	23.33	23.26	23.35
		1	23	23.16	23.20	23.29
		12	0	23.25	23.25	23.26
		12	6	23.27	23.22	23.20
		12	12	23.25	23.10	23.12
		24	0	23.30	23.23	23.24
	QPSK	1	0	20.29	20.21	20.27
		1	12	20.33	20.30	20.33
		1	23	20.33	20.28	20.28
		12	0	20.35	20.32	20.27
		12	6	20.21	20.26	20.30
		12	12	20.29	20.24	20.20
		24	0	20.35	20.22	20.35
	16QAM	1	0	20.18	20.12	20.13
		1	12	20.37	20.24	20.36
		1	23	20.19	20.13	20.29
		12	0	20.10	20.29	20.22
		12	6	20.22	20.18	20.23
		12	12	20.14	20.21	20.14
		24	0	20.24	20.30	20.22
	64QAM	1	0	19.64	19.70	19.69
		1	12	19.83	19.75	19.83
		1	23	19.74	19.72	19.64
		12	0	19.64	19.80	19.80
		12	6	19.73	19.62	19.70
		12	12	19.60	19.64	19.73
		24	0	19.69	19.74	19.73
	256QAM	1	0	16.62	16.56	16.58
		1	12	16.82	16.83	16.88
		1	23	16.70	16.63	16.69
		12	0	16.75	16.78	16.61
		12	6	16.62	16.76	16.69
		12	12	16.61	16.79	16.75
		24	0	16.70	16.61	16.80

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	25.94	25.95	25.94
		1	53	25.98	25.88	25.94
		1	105	25.37	25.42	25.50
		53	0	25.84	25.88	25.87
		53	27	25.83	25.85	25.74
		53	53	25.84	25.73	25.80
		106	0	25.85	25.78	25.88
	QPSK	1	0	23.03	22.99	23.10
		1	53	22.93	23.06	23.04
		1	105	22.49	22.60	22.44
		53	0	22.98	22.83	22.89
		53	27	22.83	23.00	22.86
		53	53	22.96	22.94	22.88
		106	0	22.97	22.82	22.80
	16QAM	1	0	22.85	22.83	22.86
		1	53	22.80	22.86	22.98
		1	105	22.43	22.35	22.34
		53	0	22.88	22.82	22.78
		53	27	22.77	22.72	22.88
		53	53	22.85	22.79	22.71
		106	0	22.70	22.80	22.70
	64QAM	1	0	22.50	22.44	22.37
		1	53	22.37	22.50	22.40
		1	105	21.83	22.00	22.00
		53	0	22.24	22.20	22.22
		53	27	22.23	22.20	22.29
		53	53	22.39	22.27	22.30
		106	0	22.35	22.27	22.28
	256QAM	1	0	19.46	19.34	19.44
		1	53	19.46	19.37	19.34
1		105	18.98	18.89	18.86	
53		0	19.23	19.32	19.36	
53		27	19.27	19.29	19.27	
53		53	19.24	19.29	19.21	
106		0	19.25	19.22	19.28	

*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	25.88	25.91	25.85
		1	39	25.82	25.82	25.81
		1	78	25.40	25.32	25.42
		39	0	25.82	25.89	25.74
		39	19	25.84	25.70	25.81
		39	40	25.83	25.72	25.73
		79	0	25.86	25.76	25.79
	QPSK	1	0	23.00	22.92	23.02
		1	39	23.07	23.09	23.08
		1	78	22.48	22.58	22.57
		39	0	22.84	22.99	22.82
		39	19	22.86	22.96	22.92
		39	40	22.96	22.98	22.86
		79	0	22.80	22.93	22.81
	16QAM	1	0	22.89	22.80	22.92
		1	39	22.83	22.96	22.84
		1	78	22.33	22.36	22.37
		39	0	22.79	22.73	22.78
		39	19	22.71	22.81	22.79
		39	40	22.86	22.80	22.87
		79	0	22.72	22.73	22.76
	64QAM	1	0	22.45	22.43	22.35
		1	39	22.44	22.46	22.40
		1	78	21.85	21.83	21.99
		39	0	22.38	22.38	22.23
		39	19	22.27	22.31	22.40
		39	40	22.33	22.25	22.34
		79	0	22.29	22.31	22.30
	256QAM	1	0	19.37	19.47	19.47
		1	39	19.31	19.49	19.45
1		78	18.90	18.82	19.00	
39		0	19.35	19.29	19.31	
39		19	19.22	19.39	19.36	
39		40	19.26	19.39	19.39	
79		0	19.27	19.35	19.27	

*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	25.94	25.99	25.86
		1	26	25.91	25.97	25.95
		1	51	25.32	25.37	25.38
		26	0	25.77	25.79	25.76
		26	13	25.83	25.72	25.70
		26	26	25.76	25.84	25.71
		52	0	25.85	25.82	25.78
	QPSK	1	0	23.10	23.10	22.92
		1	26	23.10	23.10	23.04
		1	51	22.60	22.47	22.43
		26	0	22.82	22.96	22.94
		26	13	22.87	22.94	22.98
		26	26	22.85	22.91	22.95
		52	0	23.00	22.81	22.95
	16QAM	1	0	22.83	22.95	22.87
		1	26	22.83	22.88	23.00
		1	51	22.43	22.30	22.49
		26	0	22.82	22.85	22.78
		26	13	22.89	22.89	22.81
		26	26	22.82	22.76	22.86
		52	0	22.79	22.82	22.71
	64QAM	1	0	22.48	22.33	22.46
		1	26	22.50	22.42	22.32
		1	51	21.92	21.82	21.91
		26	0	22.32	22.34	22.32
		26	13	22.26	22.29	22.20
		26	26	22.40	22.23	22.25
		52	0	22.24	22.33	22.33
	256QAM	1	0	19.30	19.50	19.46
		1	26	19.31	19.46	19.44
		1	51	18.80	18.87	18.99
		26	0	19.27	19.29	19.36
		26	13	19.33	19.23	19.27
		26	26	19.27	19.20	19.20
		52	0	19.32	19.29	19.37

*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	25.89	25.87	25.98
		1	12	25.88	25.94	25.94
		1	24	25.35	25.39	25.38
		12	0	25.89	25.87	25.82
		12	6	25.87	25.80	25.80
		12	13	25.84	25.85	25.77
		25	0	25.90	25.87	25.89
	QPSK	1	0	23.06	23.07	23.10
		1	12	23.05	22.98	23.06
		1	24	22.50	22.54	22.45
		12	0	22.97	22.90	22.90
		12	6	22.97	22.97	22.85
		12	13	22.83	22.90	22.91
		25	0	22.96	22.88	22.84
	16QAM	1	0	22.96	22.98	22.93
		1	12	22.91	22.80	22.85
		1	24	22.50	22.48	22.48
		12	0	22.74	22.72	22.80
		12	6	22.80	22.79	22.71
		12	13	22.87	22.78	22.83
		25	0	22.84	22.76	22.81
	64QAM	1	0	22.49	22.46	22.37
		1	12	22.31	22.44	22.44
		1	24	21.92	22.00	21.86
		12	0	22.28	22.25	22.35
		12	6	22.30	22.38	22.34
		12	13	22.22	22.24	22.32
		25	0	22.35	22.24	22.27
	256QAM	1	0	19.36	19.31	19.40
		1	12	19.39	19.30	19.30
		1	24	18.81	18.85	18.97
		12	0	19.30	19.30	19.34
		12	6	19.36	19.36	19.27
		12	13	19.22	19.34	19.39
		25	0	19.40	19.34	19.39

*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	25.47	25.40	25.32
		1	25	25.31	25.29	25.34
		1	50	25.10	25.09	25.27
		25	0	25.34	25.37	25.23
		25	12	25.27	25.32	25.27
		25	25	25.31	25.30	25.27
		51	0	25.23	25.25	25.09
	QPSK	1	0	22.52	22.56	22.47
		1	25	22.47	22.32	22.33
		1	50	22.21	22.36	22.29
		25	0	22.45	22.41	22.47
		25	12	22.32	22.34	22.43
		25	25	22.43	22.33	22.35
		51	0	22.35	22.19	22.36
	16QAM	1	0	22.43	22.35	22.35
		1	25	22.25	22.31	22.19
		1	50	22.27	22.26	22.14
		25	0	22.28	22.20	22.27
		25	12	22.29	22.26	22.38
		25	25	22.24	22.26	22.18
		51	0	22.20	22.20	22.17
	64QAM	1	0	21.92	21.96	21.90
		1	25	21.87	21.87	21.84
		1	50	21.78	21.78	21.71
		25	0	21.86	21.77	21.81
		25	12	21.72	21.81	21.74
		25	25	21.75	21.73	21.87
		51	0	21.78	21.65	21.77
	256QAM	1	0	18.96	18.84	18.93
		1	25	18.69	18.77	18.77
		1	50	18.76	18.68	18.70
		25	0	18.84	18.84	18.78
		25	12	18.79	18.83	18.69
		25	25	18.68	18.68	18.74
		51	0	18.58	18.74	18.64

*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	25.31	25.44	25.33
		1	19	25.23	25.36	25.32
		1	37	25.21	25.09	25.08
		19	0	25.30	25.21	25.28
		19	9	25.18	25.24	25.31
		19	20	25.28	25.29	25.31
		38	0	25.27	25.12	25.19
	QPSK	1	0	22.57	22.49	22.44
		1	19	22.35	22.30	22.42
		1	37	22.29	22.35	22.24
		19	0	22.45	22.38	22.37
		19	9	22.28	22.29	22.44
		19	20	22.33	22.39	22.34
		38	0	22.19	22.18	22.33
	16QAM	1	0	22.29	22.35	22.48
		1	19	22.22	22.33	22.24
		1	37	22.08	22.27	22.21
		19	0	22.26	22.18	22.30
		19	9	22.36	22.19	22.31
		19	20	22.21	22.25	22.25
		38	0	22.17	22.25	22.28
	64QAM	1	0	21.94	21.81	21.95
		1	19	21.79	21.79	21.87
		1	37	21.61	21.68	21.68
		19	0	21.87	21.87	21.76
		19	9	21.68	21.88	21.80
		19	20	21.71	21.73	21.74
		38	0	21.64	21.68	21.64
	256QAM	1	0	18.91	18.98	18.97
		1	19	18.74	18.79	18.75
		1	37	18.63	18.73	18.77
		19	0	18.81	18.77	18.78
		19	9	18.71	18.75	18.81
		19	20	18.88	18.87	18.76
		38	0	18.70	18.68	18.73

*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	25.40	25.37	25.40
		1	12	25.21	25.25	25.30
		1	23	25.27	25.14	25.11
		12	0	25.30	25.22	25.36
		12	6	25.27	25.34	25.21
		12	12	25.22	25.26	25.23
		24	0	25.10	25.23	25.19
	QPSK	1	0	22.38	22.57	22.52
		1	12	22.34	22.29	22.30
		1	23	22.31	22.24	22.32
		12	0	22.28	22.34	22.42
		12	6	22.33	22.34	22.46
		12	12	22.36	22.40	22.41
		24	0	22.21	22.33	22.36
	16QAM	1	0	22.35	22.40	22.39
		1	12	22.32	22.20	22.36
		1	23	22.17	22.15	22.20
		12	0	22.35	22.32	22.26
		12	6	22.20	22.24	22.27
		12	12	22.31	22.18	22.34
		24	0	22.22	22.27	22.16
	64QAM	1	0	21.85	21.93	21.86
		1	12	21.80	21.88	21.70
		1	23	21.62	21.77	21.73
		12	0	21.87	21.79	21.76
		12	6	21.71	21.70	21.85
		12	12	21.83	21.86	21.69
		24	0	21.78	21.62	21.68
	256QAM	1	0	18.98	18.81	18.83
		1	12	18.77	18.85	18.74
		1	23	18.69	18.75	18.61
		12	0	18.80	18.75	18.77
		12	6	18.74	18.75	18.79
		12	12	18.83	18.87	18.76
		24	0	18.65	18.72	18.64

*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	25.50	25.57	25.64
		1	136	25.36	25.43	25.40
		1	272	24.94	25.04	24.99
		136	0	25.59	25.59	25.40
		136	68	25.60	25.55	25.49
		136	136	25.35	25.33	25.42
		273	0	25.46	25.30	25.40
	QPSK	1	0	22.62	22.74	22.79
		1	136	22.40	22.53	22.57
		1	272	22.19	22.05	22.18
		136	0	22.50	22.57	22.50
		136	68	22.57	22.63	22.55
		136	136	22.60	22.41	22.57
		273	0	22.46	22.41	22.43
	16QAM	1	0	22.58	22.63	22.62
		1	136	22.47	22.49	22.35
		1	272	21.96	22.04	22.08
		136	0	22.52	22.44	22.53
		136	68	22.48	22.45	22.43
		136	136	22.30	22.43	22.39
		273	0	22.36	22.45	22.46
	64QAM	1	0	22.20	22.07	22.12
		1	136	21.96	21.91	21.80
		1	272	21.48	21.60	21.58
		136	0	21.91	22.02	21.92
		136	68	22.06	21.93	22.08
		136	136	21.94	21.92	21.80
		273	0	21.89	21.99	21.87
	256QAM	1	0	19.14	19.02	19.00
		1	136	18.80	18.98	18.91
1		272	18.48	18.50	18.47	
136		0	19.01	19.02	18.93	
136		68	19.10	19.09	19.04	
136		136	18.92	18.86	18.98	
273		0	18.91	18.87	18.84	

*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	25.66	25.52	25.50
		1	122	25.35	25.40	25.32
		1	244	24.99	24.92	25.02
		122	0	25.48	25.59	25.55
		122	61	25.49	25.42	25.54
		122	122	25.33	25.49	25.42
		245	0	25.30	25.31	25.46
	QPSK	1	0	22.71	22.66	22.74
		1	122	22.49	22.40	22.55
		1	244	22.01	22.20	22.00
		122	0	22.55	22.66	22.53
		122	61	22.69	22.66	22.68
		122	122	22.54	22.53	22.59
		245	0	22.50	22.58	22.52
	16QAM	1	0	22.54	22.69	22.57
		1	122	22.40	22.49	22.37
		1	244	22.06	22.08	22.02
		122	0	22.59	22.48	22.47
		122	61	22.59	22.44	22.53
		122	122	22.42	22.43	22.47
		245	0	22.39	22.48	22.35
	64QAM	1	0	22.20	22.12	22.11
		1	122	21.86	21.82	21.85
		1	244	21.49	21.45	21.45
		122	0	22.02	21.93	22.06
		122	61	21.90	22.03	22.09
		122	122	21.90	21.87	21.80
		245	0	21.83	21.88	21.84
	256QAM	1	0	19.16	19.02	19.16
		1	122	18.85	18.96	18.86
1		244	18.41	18.60	18.46	
122		0	19.01	19.04	19.06	
122		61	18.90	18.91	19.07	
122		122	18.88	18.95	18.97	
245		0	18.99	18.94	18.92	

*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	25.55	25.52	25.50
		1	108	25.39	25.41	25.33
		1	216	25.03	24.92	25.06
		108	0	25.57	25.49	25.48
		108	54	25.46	25.48	25.44
		108	108	25.32	25.33	25.39
		217	0	25.36	25.50	25.40
	QPSK	1	0	22.67	22.71	22.72
		1	108	22.42	22.49	22.41
		1	216	22.12	22.20	22.12
		108	0	22.70	22.65	22.60
		108	54	22.62	22.56	22.60
		108	108	22.58	22.42	22.58
		217	0	22.48	22.51	22.46
	16QAM	1	0	22.59	22.56	22.63
		1	108	22.31	22.38	22.36
		1	216	21.90	21.95	21.99
		108	0	22.40	22.41	22.48
		108	54	22.43	22.54	22.54
		108	108	22.33	22.39	22.42
		217	0	22.46	22.31	22.45
	64QAM	1	0	22.14	22.07	22.05
		1	108	21.80	21.83	21.93
		1	216	21.44	21.51	21.46
		108	0	21.90	21.90	21.94
		108	54	22.01	22.03	21.95
		108	108	21.86	22.00	21.99
		217	0	21.83	21.85	21.86
	256QAM	1	0	19.12	19.09	19.20
		1	108	18.99	18.91	18.98
1		216	18.44	18.43	18.46	
108		0	18.92	19.08	18.93	
108		54	18.99	18.90	19.03	
108		108	18.80	18.88	18.94	
217		0	18.97	18.80	18.85	

*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	25.55	25.50	25.61
		1	81	25.35	25.30	25.36
		1	161	25.06	24.98	24.90
		81	0	25.49	25.42	25.50
		81	40	25.59	25.41	25.60
		81	81	25.30	25.42	25.42
		162	0	25.41	25.43	25.45
	QPSK	1	0	22.74	22.70	22.76
		1	81	22.50	22.53	22.56
		1	161	22.15	22.01	22.19
		81	0	22.57	22.50	22.68
		81	40	22.68	22.53	22.51
		81	81	22.44	22.45	22.60
		162	0	22.42	22.58	22.52
	16QAM	1	0	22.60	22.53	22.68
		1	81	22.34	22.35	22.35
		1	161	22.00	22.00	22.07
		81	0	22.51	22.52	22.60
		81	40	22.53	22.47	22.55
		81	81	22.50	22.41	22.50
		162	0	22.44	22.41	22.36
	64QAM	1	0	22.08	22.05	22.04
		1	81	21.80	21.81	22.00
		1	161	21.45	21.60	21.56
		81	0	22.10	22.06	22.00
		81	40	22.07	21.97	22.04
		81	81	21.80	21.80	21.89
		162	0	21.89	21.97	21.99
	256QAM	1	0	19.18	19.16	19.20
		1	81	18.97	18.88	18.95
		1	161	18.53	18.43	18.56
		81	0	19.10	19.06	18.98
		81	40	19.07	18.94	18.95
		81	81	18.97	18.93	18.81
		162	0	18.85	19.00	18.99

*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	25.61	25.57	25.69
		1	66	25.44	25.34	25.48
		1	132	24.99	25.04	24.92
		66	0	25.56	25.60	25.53
		66	33	25.50	25.49	25.52
		66	66	25.45	25.50	25.49
		133	0	25.35	25.32	25.36
	QPSK	1	0	22.78	22.78	22.68
		1	66	22.58	22.43	22.45
		1	132	22.19	22.18	22.11
		66	0	22.63	22.56	22.53
		66	33	22.61	22.69	22.55
		66	66	22.43	22.57	22.60
		133	0	22.60	22.51	22.47
	16QAM	1	0	22.62	22.59	22.52
		1	66	22.41	22.35	22.37
		1	132	22.10	22.02	22.10
		66	0	22.60	22.50	22.42
		66	33	22.47	22.43	22.50
		66	66	22.49	22.40	22.49
		133	0	22.41	22.36	22.45
	64QAM	1	0	22.08	22.05	22.18
		1	66	21.81	21.98	21.82
		1	132	21.57	21.55	21.43
		66	0	21.91	22.04	21.99
		66	33	22.08	22.07	22.01
		66	66	21.87	21.93	21.98
		133	0	22.00	21.88	21.88
	256QAM	1	0	19.04	19.03	19.04
		1	66	18.92	18.80	19.00
1		132	18.58	18.55	18.51	
66		0	19.00	19.03	19.03	
66		33	19.09	19.09	18.94	
66		66	18.94	18.86	18.95	
133		0	18.92	18.86	18.94	

*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	25.56	25.54	25.51
		1	53	25.42	25.38	25.30
		1	105	24.90	25.06	24.95
		53	0	25.41	25.53	25.59
		53	26	25.54	25.44	25.58
		53	53	25.41	25.39	25.35
		106	0	25.36	25.47	25.42
	QPSK	1	0	22.79	22.66	22.72
		1	53	22.54	22.60	22.43
		1	105	22.05	22.05	22.06
		53	0	22.67	22.53	22.67
		53	26	22.64	22.64	22.56
		53	53	22.40	22.58	22.60
		106	0	22.49	22.59	22.48
	16QAM	1	0	22.65	22.69	22.69
		1	53	22.31	22.42	22.37
		1	105	21.95	21.99	21.90
		53	0	22.56	22.51	22.44
		53	26	22.45	22.40	22.45
		53	53	22.33	22.32	22.37
		106	0	22.45	22.44	22.30
	64QAM	1	0	22.09	22.03	22.20
		1	53	21.83	21.81	21.86
		1	105	21.45	21.58	21.46
		53	0	21.91	22.00	21.91
		53	26	22.05	21.98	22.00
		53	53	21.96	21.86	21.85
		106	0	21.89	21.91	21.85
	256QAM	1	0	19.14	19.10	19.08
		1	53	18.80	18.89	18.95
1		105	18.41	18.48	18.45	
53		0	18.97	18.98	19.08	
53		26	19.08	18.96	18.97	
53		53	18.89	18.84	19.00	
106		0	18.86	18.82	18.82	

*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	25.52	25.68	25.51
		1	25	25.44	25.34	25.36
		1	50	24.90	25.08	24.90
		25	0	25.44	25.51	25.59
		25	12	25.58	25.55	25.46
		25	25	25.50	25.48	25.31
		51	0	25.37	25.40	25.42
	QPSK	1	0	22.61	22.78	22.64
		1	25	22.56	22.43	22.48
		1	50	22.01	22.06	22.20
		25	0	22.68	22.69	22.62
		25	12	22.66	22.50	22.52
		25	25	22.44	22.42	22.56
		51	0	22.48	22.46	22.60
	16QAM	1	0	22.67	22.68	22.59
		1	25	22.33	22.50	22.38
		1	50	22.10	21.99	22.06
		25	0	22.44	22.53	22.52
		25	12	22.49	22.56	22.45
		25	25	22.44	22.31	22.50
		51	0	22.32	22.37	22.46
	64QAM	1	0	22.14	22.11	22.04
		1	25	22.00	21.97	21.80
		1	50	21.56	21.52	21.58
		25	0	21.99	21.97	21.91
		25	12	22.06	21.95	22.08
		25	25	21.86	21.90	21.82
		51	0	21.82	21.84	21.82
	256QAM	1	0	19.00	19.18	19.06
		1	25	18.90	18.86	19.00
1		50	18.48	18.53	18.59	
25		0	19.02	18.95	19.06	
25		12	19.06	19.09	18.95	
25		25	18.86	18.81	18.96	
51		0	18.92	18.85	18.83	

*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	25.67	25.59	25.50
		1	19	25.42	25.40	25.41
		1	37	25.03	25.08	24.98
		19	0	25.56	25.53	25.45
		19	9	25.48	25.56	25.55
		19	20	25.37	25.39	25.42
		38	0	25.47	25.38	25.34
	QPSK	1	0	22.72	22.77	22.69
		1	19	22.52	22.59	22.50
		1	37	22.16	22.03	22.06
		19	0	22.68	22.55	22.64
		19	9	22.58	22.60	22.57
		19	20	22.55	22.60	22.50
		38	0	22.56	22.48	22.60
	16QAM	1	0	22.66	22.57	22.62
		1	19	22.46	22.35	22.50
		1	37	21.93	22.08	21.90
		19	0	22.53	22.47	22.41
		19	9	22.43	22.53	22.44
		19	20	22.41	22.41	22.41
		38	0	22.35	22.42	22.50
	64QAM	1	0	22.07	22.02	22.20
		1	19	21.80	21.85	21.96
		1	37	21.57	21.54	21.51
		19	0	22.03	21.95	21.90
		19	9	22.07	21.92	21.99
		19	20	21.87	21.96	21.89
		38	0	21.88	21.83	21.84
	256QAM	1	0	19.08	19.06	19.02
		1	19	18.86	18.91	18.80
		1	37	18.40	18.42	18.54
		19	0	18.91	18.96	18.91
		19	9	18.95	19.00	18.90
		19	20	18.95	18.82	18.90
		38	0	18.90	18.96	18.89

*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	25.58	25.57	25.62
		1	12	25.50	25.49	25.41
		1	23	24.95	24.90	25.09
		12	0	25.48	25.44	25.57
		12	6	25.54	25.57	25.56
		12	12	25.31	25.39	25.31
		24	0	25.42	25.31	25.50
	QPSK	1	0	22.73	22.67	22.79
		1	12	22.60	22.40	22.59
		1	23	22.20	22.20	22.20
		12	0	22.63	22.54	22.55
		12	6	22.50	22.56	22.53
		12	12	22.51	22.43	22.48
		24	0	22.50	22.42	22.40
	16QAM	1	0	22.52	22.56	22.52
		1	12	22.36	22.42	22.42
		1	23	21.97	22.01	21.95
		12	0	22.57	22.56	22.40
		12	6	22.40	22.54	22.54
		12	12	22.37	22.42	22.32
		24	0	22.44	22.39	22.47
	64QAM	1	0	22.04	22.06	22.12
		1	12	21.97	22.00	21.89
		1	23	21.43	21.57	21.45
		12	0	22.09	22.00	22.05
		12	6	21.96	21.96	22.01
		12	12	21.96	21.99	21.96
		24	0	21.90	21.81	21.82
	256QAM	1	0	19.13	19.10	19.11
		1	12	18.93	18.83	18.80
		1	23	18.52	18.53	18.50
		12	0	19.06	19.04	18.93
		12	6	19.10	18.90	19.10
		12	12	18.98	18.97	18.82
		24	0	18.94	18.81	18.91

*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	26.72	26.67	26.71
		1	108	27.11	27.21	27.16
		1	215	27.07	27.04	27.19
		108	0	26.95	27.01	27.08
		108	53	27.09	26.97	27.05
		108	107	27.12	27.14	26.99
		216	0	27.08	27.14	27.11
	QPSK	1	0	23.88	23.86	23.84
		1	108	24.25	24.22	24.25
		1	215	24.23	24.26	24.32
		108	0	24.16	24.23	24.07
		108	53	24.20	24.07	24.05
		108	107	24.22	24.23	24.21
		216	0	24.12	24.06	24.21
	16QAM	1	0	23.79	23.79	23.79
		1	108	24.10	24.09	24.19
		1	215	24.06	24.05	24.23
		108	0	24.09	24.13	24.07
		108	53	24.00	24.10	24.05
		108	107	24.04	24.11	24.12
		216	0	24.13	24.04	24.14
	64QAM	1	0	23.22	23.23	23.22
		1	108	23.61	23.60	23.58
		1	215	23.56	23.55	23.60
		108	0	23.44	23.62	23.50
		108	53	23.55	23.61	23.53
		108	107	23.57	23.51	23.57
		216	0	23.58	23.50	23.57
	256QAM	1	0	20.18	20.21	20.33
		1	108	20.58	20.69	20.72
1		215	20.70	20.69	20.70	
108		0	20.53	20.63	20.63	
108		53	20.61	20.58	20.51	
108		107	20.45	20.50	20.49	
216		0	20.54	20.53	20.47	

*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	26.72	26.70	26.78
		1	53	27.19	27.21	27.18
		1	105	27.14	27.07	27.15
		53	0	27.02	26.95	27.10
		53	27	27.09	27.07	26.96
		53	53	27.12	27.10	27.08
		106	0	27.02	27.04	27.08
	QPSK	1	0	23.93	23.86	23.76
		1	53	24.31	24.28	24.28
		1	105	24.34	24.14	24.18
		53	0	24.11	24.19	24.12
		53	27	24.05	24.24	24.13
		53	53	24.23	24.10	24.10
		106	0	24.10	24.11	24.14
	16QAM	1	0	23.81	23.75	23.69
		1	53	24.18	24.07	24.04
		1	105	24.20	24.05	24.15
		53	0	24.06	24.07	23.97
		53	27	24.09	24.04	24.10
		53	53	23.95	24.13	23.97
		106	0	24.06	24.07	24.12
	64QAM	1	0	23.31	23.31	23.25
		1	53	23.54	23.67	23.68
		1	105	23.64	23.66	23.74
		53	0	23.44	23.55	23.48
		53	27	23.56	23.50	23.55
		53	53	23.45	23.49	23.48
		106	0	23.47	23.64	23.56
	256QAM	1	0	20.32	20.15	20.19
		1	53	20.62	20.73	20.62
		1	105	20.70	20.57	20.68
		53	0	20.44	20.63	20.49
		53	27	20.49	20.48	20.49
		53	53	20.60	20.54	20.49
		106	0	20.64	20.52	20.54

*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	26.65	26.80	26.79
		1	39	27.10	27.06	27.13
		1	78	27.24	27.20	27.16
		39	0	27.09	27.04	26.96
		39	19	27.05	27.08	27.02
		39	40	26.98	26.95	27.02
		79	0	27.02	27.13	26.98
	QPSK	1	0	23.93	23.82	23.86
		1	39	24.29	24.21	24.23
		1	78	24.30	24.30	24.34
		39	0	24.10	24.10	24.14
		39	19	24.05	24.06	24.05
		39	40	24.12	24.11	24.08
		79	0	24.17	24.15	24.09
	16QAM	1	0	23.76	23.68	23.68
		1	39	24.06	24.10	24.13
		1	78	24.19	24.12	24.21
		39	0	24.05	24.05	23.94
		39	19	24.07	23.98	23.96
		39	40	24.03	24.01	23.94
		79	0	24.03	23.98	23.94
	64QAM	1	0	23.18	23.32	23.18
		1	39	23.55	23.56	23.72
		1	78	23.57	23.67	23.58
		39	0	23.47	23.44	23.50
		39	19	23.56	23.53	23.50
		39	40	23.57	23.49	23.51
		79	0	23.46	23.64	23.64
	256QAM	1	0	20.31	20.24	20.19
		1	39	20.73	20.72	20.54
		1	78	20.57	20.54	20.56
		39	0	20.48	20.47	20.58
		39	19	20.49	20.57	20.50
		39	40	20.51	20.57	20.56
		79	0	20.57	20.48	20.59

*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	26.71	26.81	26.77
		1	26	27.11	27.16	27.22
		1	51	27.12	27.13	27.12
		26	0	27.09	26.95	27.12
		26	13	26.96	26.96	27.10
		26	26	27.06	27.07	27.08
		52	0	27.07	27.10	27.05
	QPSK	1	0	23.77	23.75	23.87
		1	26	24.17	24.31	24.29
		1	51	24.32	24.32	24.17
		26	0	24.23	24.05	24.11
		26	13	24.18	24.04	24.08
		26	26	24.04	24.11	24.06
		52	0	24.21	24.14	24.11
	16QAM	1	0	23.80	23.79	23.77
		1	26	24.13	24.17	24.17
		1	51	24.14	24.17	24.11
		26	0	24.11	24.08	23.94
		26	13	24.08	24.12	24.04
		26	26	23.95	24.03	24.08
		52	0	24.09	23.94	23.97
	64QAM	1	0	23.34	23.30	23.21
		1	26	23.64	23.65	23.70
		1	51	23.59	23.58	23.74
		26	0	23.45	23.62	23.59
		26	13	23.47	23.64	23.56
		26	26	23.56	23.49	23.58
		52	0	23.60	23.50	23.50
	256QAM	1	0	20.16	20.19	20.24
		1	26	20.60	20.57	20.72
		1	51	20.69	20.56	20.60
		26	0	20.58	20.54	20.47
		26	13	20.59	20.47	20.52
		26	26	20.57	20.44	20.45
		52	0	20.62	20.59	20.61

*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	26.70	26.69	26.74
		1	12	27.08	27.19	27.08
		1	24	27.16	27.13	27.09
		12	0	27.10	26.96	27.12
		12	6	27.00	27.14	27.11
		12	13	26.97	27.05	27.06
		25	0	27.00	27.06	26.97
	QPSK	1	0	23.92	23.80	23.87
		1	12	24.14	24.20	24.28
		1	24	24.14	24.17	24.33
		12	0	24.23	24.19	24.12
		12	6	24.04	24.10	24.19
		12	13	24.09	24.24	24.11
		25	0	24.08	24.24	24.04
	16QAM	1	0	23.72	23.64	23.66
		1	12	24.22	24.08	24.24
		1	24	24.09	24.22	24.13
		12	0	24.10	24.14	24.00
		12	6	23.98	24.00	24.14
		12	13	24.06	24.08	24.10
		25	0	24.14	24.08	24.01
	64QAM	1	0	23.28	23.16	23.14
		1	12	23.72	23.61	23.59
		1	24	23.63	23.56	23.62
		12	0	23.54	23.59	23.48
		12	6	23.57	23.61	23.44
		12	13	23.50	23.57	23.63
		25	0	23.50	23.55	23.44
	256QAM	1	0	20.14	20.32	20.15
		1	12	20.54	20.67	20.61
		1	24	20.65	20.58	20.70
		12	0	20.62	20.52	20.55
		12	6	20.53	20.45	20.48
		12	13	20.49	20.63	20.60
		25	0	20.52	20.44	20.62

*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	25.64	25.67	25.64
		1	136	25.94	25.89	25.95
		1	272	25.86	25.71	25.80
		136	0	25.79	25.89	25.75
		136	68	25.82	25.74	25.74
		136	136	25.89	25.87	25.90
		273	0	25.80	25.80	25.87
	QPSK	1	0	22.80	22.75	22.77
		1	136	23.06	23.05	22.93
		1	272	22.90	22.92	22.85
		136	0	22.99	22.94	22.83
		136	68	23.00	22.84	22.88
		136	136	22.89	22.89	22.87
		273	0	22.95	22.88	22.96
	16QAM	1	0	22.64	22.79	22.70
		1	136	22.91	22.95	22.90
		1	272	22.73	22.83	22.86
		136	0	22.83	22.77	22.74
		136	68	22.89	22.84	22.85
		136	136	22.75	22.72	22.82
		273	0	22.77	22.88	22.87
	64QAM	1	0	22.30	22.23	22.14
		1	136	22.50	22.32	22.44
		1	272	22.33	22.22	22.32
		136	0	22.27	22.33	22.28
		136	68	22.38	22.24	22.32
		136	136	22.24	22.26	22.27
		273	0	22.34	22.38	22.35
	256QAM	1	0	19.12	19.31	19.23
		1	136	19.36	19.50	19.40
1		272	19.21	19.25	19.35	
136		0	19.24	19.41	19.31	
136		68	19.40	19.35	19.33	
136		136	19.30	19.32	19.21	
273		0	19.40	19.25	19.22	

*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	25.64	25.70	25.77
		1	122	25.83	25.82	25.88
		1	244	25.80	25.86	25.87
		122	0	25.83	25.84	25.80
		122	61	25.78	25.81	25.80
		122	122	25.89	25.75	25.89
		245	0	25.88	25.75	25.74
	QPSK	1	0	22.91	22.77	22.89
		1	122	23.08	22.97	23.04
		1	244	22.92	22.95	22.90
		122	0	22.99	22.98	22.81
		122	61	22.94	22.85	22.88
		122	122	22.87	22.85	22.90
		245	0	22.96	22.94	23.00
	16QAM	1	0	22.64	22.78	22.61
		1	122	22.99	22.89	22.92
		1	244	22.89	22.87	22.85
		122	0	22.74	22.71	22.91
		122	61	22.88	22.74	22.80
		122	122	22.79	22.90	22.91
		245	0	22.73	22.72	22.81
	64QAM	1	0	22.29	22.26	22.30
		1	122	22.47	22.44	22.48
		1	244	22.40	22.23	22.21
		122	0	22.35	22.41	22.34
		122	61	22.26	22.22	22.35
		122	122	22.32	22.38	22.30
		245	0	22.30	22.36	22.39
256QAM	1	0	19.18	19.11	19.25	
	1	122	19.50	19.46	19.48	
	1	244	19.34	19.39	19.21	
	122	0	19.41	19.23	19.28	
	122	61	19.21	19.39	19.35	
	122	122	19.23	19.33	19.32	
	245	0	19.36	19.23	19.31	

*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	25.76	25.71	25.77
		1	108	25.83	25.81	25.86
		1	216	25.82	25.76	25.87
		108	0	25.78	25.84	25.76
		108	54	25.86	25.76	25.86
		108	108	25.76	25.83	25.88
		217	0	25.83	25.74	25.75
	QPSK	1	0	22.78	22.81	22.74
		1	108	23.04	23.03	23.02
		1	216	22.82	22.90	22.96
		108	0	22.94	22.97	22.81
		108	54	22.84	22.90	22.85
		108	108	22.97	22.86	22.85
		217	0	22.95	22.87	22.92
	16QAM	1	0	22.77	22.69	22.74
		1	108	22.81	22.85	22.88
		1	216	22.83	22.91	22.77
		108	0	22.79	22.90	22.75
		108	54	22.86	22.86	22.89
		108	108	22.82	22.89	22.79
		217	0	22.73	22.80	22.74
	64QAM	1	0	22.29	22.13	22.27
		1	108	22.49	22.43	22.51
		1	216	22.38	22.40	22.37
		108	0	22.29	22.30	22.32
		108	54	22.38	22.24	22.41
		108	108	22.41	22.34	22.32
		217	0	22.41	22.32	22.24
	256QAM	1	0	19.18	19.22	19.18
		1	108	19.38	19.46	19.35
		1	216	19.23	19.30	19.34
		108	0	19.22	19.23	19.37
		108	54	19.27	19.25	19.23
		108	108	19.23	19.34	19.38
		217	0	19.33	19.24	19.26

*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	25.69	25.71	25.62
		1	81	26.00	25.88	25.95
		1	161	25.80	25.86	25.86
		81	0	25.83	25.91	25.90
		81	40	25.80	25.73	25.91
		81	81	25.72	25.91	25.78
		162	0	25.89	25.72	25.74
	QPSK	1	0	22.74	22.84	22.85
		1	81	22.97	22.94	22.94
		1	161	22.81	22.88	22.83
		81	0	22.92	22.83	22.83
		81	40	22.90	23.00	22.87
		81	81	22.91	22.96	22.82
		162	0	22.82	22.86	22.88
	16QAM	1	0	22.72	22.64	22.73
		1	81	23.01	22.94	22.90
		1	161	22.91	22.87	22.72
		81	0	22.80	22.74	22.76
		81	40	22.86	22.73	22.85
		81	81	22.85	22.83	22.71
		162	0	22.80	22.91	22.74
	64QAM	1	0	22.30	22.20	22.18
		1	81	22.37	22.51	22.38
		1	161	22.40	22.26	22.25
		81	0	22.39	22.26	22.29
		81	40	22.36	22.30	22.40
		81	81	22.34	22.36	22.28
		162	0	22.28	22.26	22.23
	256QAM	1	0	19.29	19.11	19.21
		1	81	19.42	19.48	19.41
1		161	19.41	19.26	19.32	
81		0	19.32	19.29	19.21	
81		40	19.34	19.32	19.41	
81		81	19.31	19.41	19.29	
162		0	19.39	19.41	19.35	

*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	25.73	25.64	25.65
		1	66	25.94	25.94	26.01
		1	132	25.75	25.90	25.73
		66	0	25.78	25.77	25.85
		66	33	25.86	25.72	25.80
		66	66	25.85	25.74	25.75
		133	0	25.86	25.78	25.74
	QPSK	1	0	22.82	22.83	22.72
		1	66	23.04	23.02	23.10
		1	132	22.86	22.82	22.86
		66	0	23.00	22.85	22.84
		66	33	22.85	22.95	22.95
		66	66	22.92	22.96	22.97
		133	0	22.97	22.94	22.99
	16QAM	1	0	22.72	22.64	22.65
		1	66	22.99	22.82	23.00
		1	132	22.72	22.90	22.81
		66	0	22.91	22.89	22.81
		66	33	22.90	22.79	22.80
		66	66	22.87	22.86	22.75
		133	0	22.75	22.77	22.73
	64QAM	1	0	22.19	22.22	22.22
		1	66	22.46	22.46	22.35
		1	132	22.21	22.41	22.38
		66	0	22.36	22.33	22.32
		66	33	22.25	22.26	22.35
		66	66	22.29	22.29	22.23
		133	0	22.24	22.26	22.26
	256QAM	1	0	19.25	19.28	19.16
		1	66	19.33	19.36	19.38
1		132	19.21	19.30	19.26	
66		0	19.28	19.30	19.30	
66		33	19.40	19.36	19.30	
66		66	19.39	19.40	19.25	
133		0	19.32	19.36	19.31	

*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	25.80	25.73	25.68
		1	53	26.00	25.82	25.99
		1	105	25.77	25.88	25.76
		53	0	25.91	25.84	25.86
		53	26	25.75	25.74	25.73
		53	53	25.83	25.90	25.80
		106	0	25.72	25.82	25.82
	QPSK	1	0	22.81	22.89	22.86
		1	53	22.97	23.02	23.04
		1	105	22.97	22.92	23.01
		53	0	22.82	22.91	22.83
		53	26	22.93	22.81	22.95
		53	53	22.86	23.00	22.89
		106	0	22.93	23.01	22.97
	16QAM	1	0	22.65	22.81	22.65
		1	53	22.83	22.94	22.90
		1	105	22.86	22.78	22.88
		53	0	22.91	22.91	22.89
		53	26	22.71	22.82	22.76
		53	53	22.90	22.73	22.88
		106	0	22.90	22.84	22.81
	64QAM	1	0	22.21	22.16	22.22
		1	53	22.41	22.43	22.32
		1	105	22.36	22.21	22.22
		53	0	22.26	22.40	22.29
		53	26	22.33	22.32	22.32
		53	53	22.23	22.21	22.35
		106	0	22.21	22.33	22.29
	256QAM	1	0	19.25	19.18	19.28
		1	53	19.37	19.31	19.44
		1	105	19.21	19.36	19.36
		53	0	19.29	19.38	19.35
		53	26	19.29	19.34	19.38
		53	53	19.34	19.38	19.25
		106	0	19.33	19.38	19.22

*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	25.67	25.74	25.62
		1	25	26.00	25.88	25.93
		1	50	25.91	25.80	25.80
		25	0	25.83	25.78	25.84
		25	12	25.80	25.73	25.79
		25	25	25.76	25.79	25.88
		51	0	25.83	25.91	25.74
	QPSK	1	0	22.89	22.85	22.75
		1	25	23.03	23.04	23.04
		1	50	22.86	22.95	22.86
		25	0	22.81	22.97	23.00
		25	12	23.00	22.81	22.96
		25	25	22.97	22.95	22.99
		51	0	22.91	22.88	22.93
	16QAM	1	0	22.71	22.61	22.70
		1	25	22.86	22.83	22.83
		1	50	22.77	22.74	22.91
		25	0	22.88	22.90	22.78
		25	12	22.85	22.73	22.79
		25	25	22.73	22.81	22.79
		51	0	22.85	22.86	22.81
	64QAM	1	0	22.25	22.17	22.23
		1	25	22.45	22.43	22.35
		1	50	22.29	22.32	22.29
		25	0	22.23	22.30	22.36
		25	12	22.23	22.39	22.21
		25	25	22.38	22.34	22.41
		51	0	22.36	22.27	22.41
	256QAM	1	0	19.14	19.31	19.12
		1	25	19.48	19.39	19.43
1		50	19.32	19.37	19.25	
25		0	19.26	19.35	19.28	
25		12	19.23	19.29	19.38	
25		25	19.32	19.32	19.26	
51		0	19.23	19.30	19.22	

*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	25.73	25.77	25.61
		1	19	25.98	25.87	25.93
		1	37	25.79	25.90	25.75
		19	0	25.84	25.76	25.78
		19	9	25.83	25.76	25.78
		19	20	25.72	25.82	25.71
		38	0	25.75	25.81	25.85
	QPSK	1	0	22.83	22.76	22.71
		1	19	22.95	23.09	22.96
		1	37	22.90	22.82	22.99
		19	0	22.84	22.81	22.85
		19	9	22.83	22.84	22.94
		19	20	22.82	22.99	22.86
		38	0	22.92	22.85	22.90
	16QAM	1	0	22.61	22.71	22.77
		1	19	23.00	22.93	22.81
		1	37	22.82	22.79	22.77
		19	0	22.79	22.88	22.86
		19	9	22.75	22.79	22.91
		19	20	22.81	22.76	22.76
		38	0	22.74	22.76	22.75
	64QAM	1	0	22.13	22.11	22.27
		1	19	22.39	22.31	22.41
		1	37	22.22	22.21	22.35
		19	0	22.40	22.40	22.24
		19	9	22.36	22.36	22.41
		19	20	22.41	22.41	22.29
		38	0	22.34	22.21	22.22
	256QAM	1	0	19.28	19.20	19.31
		1	19	19.40	19.34	19.36
		1	37	19.37	19.36	19.41
		19	0	19.31	19.40	19.30
		19	9	19.40	19.22	19.30
		19	20	19.23	19.40	19.36
		38	0	19.32	19.35	19.29

*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	25.75	25.69	25.63
		1	12	25.94	25.87	25.96
		1	23	25.77	25.81	25.90
		12	0	25.86	25.86	25.87
		12	6	25.88	25.83	25.81
		12	12	25.86	25.71	25.73
		24	0	25.91	25.84	25.85
	QPSK	1	0	22.90	22.82	22.88
		1	12	22.94	22.91	22.94
		1	23	22.94	22.89	22.89
		12	0	22.96	22.93	22.88
		12	6	22.82	22.87	22.91
		12	12	22.90	22.85	22.81
		24	0	22.96	22.83	22.96
	16QAM	1	0	22.79	22.73	22.74
		1	12	22.98	22.85	22.97
		1	23	22.80	22.74	22.90
		12	0	22.71	22.90	22.83
		12	6	22.83	22.79	22.84
		12	12	22.75	22.82	22.75
		24	0	22.85	22.91	22.83
	64QAM	1	0	22.25	22.31	22.30
		1	12	22.44	22.36	22.44
		1	23	22.35	22.33	22.25
		12	0	22.25	22.41	22.41
		12	6	22.34	22.23	22.31
		12	12	22.21	22.25	22.34
		24	0	22.30	22.35	22.34
	256QAM	1	0	19.23	19.17	19.19
		1	12	19.43	19.44	19.49
		1	23	19.31	19.24	19.30
		12	0	19.36	19.39	19.22
		12	6	19.23	19.37	19.30
		12	12	19.22	19.40	19.36
		24	0	19.31	19.22	19.41

*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	23.40	23.45	23.47
		1	53	23.22	23.30	23.20
		1	105	23.24	23.32	23.29
		53	0	23.16	23.24	23.17
		53	27	23.10	23.17	23.21
		53	53	23.14	23.18	23.16
		106	0	23.10	23.21	23.27
	QPSK	1	0	20.62	20.58	20.63
		1	53	20.27	20.31	20.36
		1	105	20.27	20.40	20.47
		53	0	20.26	20.30	20.36
		53	27	20.33	20.37	20.36
		53	53	20.33	20.20	20.33
		106	0	20.29	20.30	20.20
	16QAM	1	0	20.44	20.53	20.42
		1	53	20.31	20.36	20.36
		1	105	20.35	20.22	20.31
		53	0	20.07	20.25	20.10
		53	27	20.08	20.07	20.14
		53	53	20.21	20.13	20.21
		106	0	20.15	20.27	20.24
	64QAM	1	0	20.03	20.00	20.04
		1	53	19.71	19.84	19.78
		1	105	19.73	19.78	19.68
		53	0	19.71	19.63	19.62
		53	27	19.63	19.72	19.64
		53	53	19.77	19.68	19.66
		106	0	19.62	19.69	19.64
	256QAM	1	0	16.92	17.06	16.88
		1	53	16.71	16.82	16.70
1		105	16.81	16.86	16.86	
53		0	16.74	16.67	16.57	
53		27	16.62	16.60	16.77	
53		53	16.70	16.65	16.73	
106		0	16.71	16.57	16.77	

*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	23.49	23.48	23.56
		1	39	23.35	23.29	23.37
		1	78	23.31	23.31	23.29
		39	0	23.23	23.14	23.24
		39	19	23.15	23.07	23.07
		39	40	23.07	23.11	23.16
		79	0	23.27	23.22	23.23
	QPSK	1	0	20.47	20.54	20.47
		1	39	20.27	20.36	20.39
		1	78	20.30	20.37	20.32
		39	0	20.37	20.35	20.25
		39	19	20.33	20.17	20.37
		39	40	20.17	20.23	20.33
		79	0	20.29	20.28	20.36
	16QAM	1	0	20.57	20.39	20.49
		1	39	20.32	20.24	20.35
		1	78	20.35	20.22	20.19
		39	0	20.22	20.16	20.21
		39	19	20.09	20.19	20.17
		39	40	20.21	20.12	20.26
		79	0	20.11	20.18	20.18
	64QAM	1	0	19.90	19.92	19.94
		1	39	19.78	19.69	19.74
		1	78	19.69	19.82	19.70
		39	0	19.69	19.76	19.71
		39	19	19.77	19.65	19.72
		39	40	19.71	19.69	19.68
		79	0	19.67	19.62	19.69
	256QAM	1	0	17.07	16.87	16.93
		1	39	16.69	16.86	16.73
		1	78	16.67	16.87	16.67
		39	0	16.69	16.77	16.57
		39	19	16.68	16.66	16.62
		39	40	16.64	16.59	16.76
		79	0	16.67	16.59	16.63

*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	23.42	23.47	23.47
		1	26	23.25	23.35	23.25
		1	51	23.18	23.20	23.20
		26	0	23.10	23.12	23.17
		26	13	23.23	23.19	23.25
		26	26	23.14	23.24	23.27
		52	0	23.18	23.20	23.21
	QPSK	1	0	20.64	20.67	20.64
		1	26	20.37	20.37	20.46
		1	51	20.45	20.36	20.43
		26	0	20.36	20.21	20.37
		26	13	20.22	20.35	20.23
		26	26	20.28	20.32	20.31
		52	0	20.26	20.35	20.20
	16QAM	1	0	20.49	20.40	20.55
		1	26	20.31	20.32	20.17
		1	51	20.21	20.31	20.28
		26	0	20.12	20.07	20.22
		26	13	20.17	20.13	20.08
		26	26	20.17	20.21	20.18
		52	0	20.16	20.24	20.13
	64QAM	1	0	20.02	20.00	19.92
		1	26	19.73	19.79	19.72
		1	51	19.79	19.71	19.69
		26	0	19.64	19.72	19.76
		26	13	19.70	19.66	19.76
		26	26	19.67	19.70	19.70
		52	0	19.75	19.63	19.74
	256QAM	1	0	16.91	17.03	16.99
		1	26	16.70	16.84	16.75
		1	51	16.84	16.75	16.76
		26	0	16.74	16.69	16.69
26		13	16.65	16.64	16.66	
26		26	16.66	16.63	16.75	
52		0	16.67	16.62	16.77	

*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	23.57	23.53	23.55
		1	12	23.26	23.22	23.35
		1	24	23.30	23.25	23.26
		12	0	23.09	23.17	23.16
		12	6	23.20	23.11	23.21
		12	13	23.10	23.16	23.23
		25	0	23.20	23.20	23.09
	QPSK	1	0	20.65	20.66	20.52
		1	12	20.31	20.32	20.35
		1	24	20.31	20.42	20.27
		12	0	20.21	20.37	20.32
		12	6	20.24	20.22	20.37
		12	13	20.22	20.33	20.32
		25	0	20.21	20.30	20.35
	16QAM	1	0	20.40	20.55	20.42
		1	12	20.35	20.37	20.27
		1	24	20.34	20.21	20.26
		12	0	20.21	20.12	20.08
		12	6	20.07	20.17	20.17
		12	13	20.10	20.24	20.27
		25	0	20.08	20.20	20.10
	64QAM	1	0	20.00	19.96	19.91
		1	12	19.79	19.73	19.74
		1	24	19.87	19.68	19.84
		12	0	19.73	19.64	19.66
		12	6	19.74	19.68	19.76
		12	13	19.65	19.76	19.68
		25	0	19.69	19.77	19.65
	256QAM	1	0	17.00	17.06	16.99
		1	12	16.86	16.81	16.80
		1	24	16.74	16.87	16.67
		12	0	16.77	16.71	16.61
		12	6	16.68	16.64	16.66
		12	13	16.60	16.57	16.59
		25	0	16.74	16.57	16.68

*ERP = Conducted + antenna gain - 2.15

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

For n7, n38, n41:

In the FCC 27.53(m)(4), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log (P)$ dB. The emission limit equal to -25dBm .

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.

4.2.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. Correction Factor (includes EIRP and ERP unit conversion factor) = $\text{Antenna gain of substitution horn} - \text{Tx cable loss}$. Measurement method refers to ANSI C63.26 section 5.5.3.2.
- c. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $\text{E.R.P power} = \text{E.I.R.P power} - 2.15\text{dBi}$.

Note:

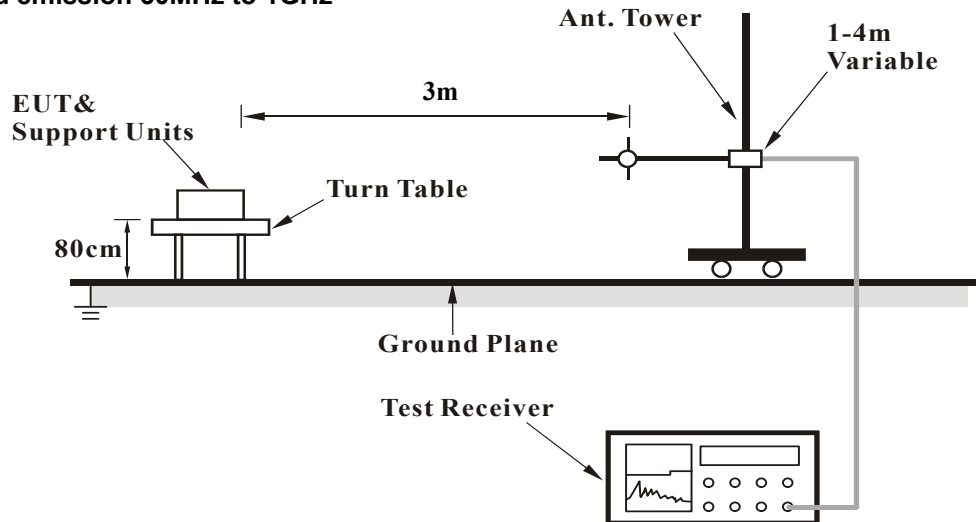
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz: The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report

4.2.3 Deviation from Test Standard

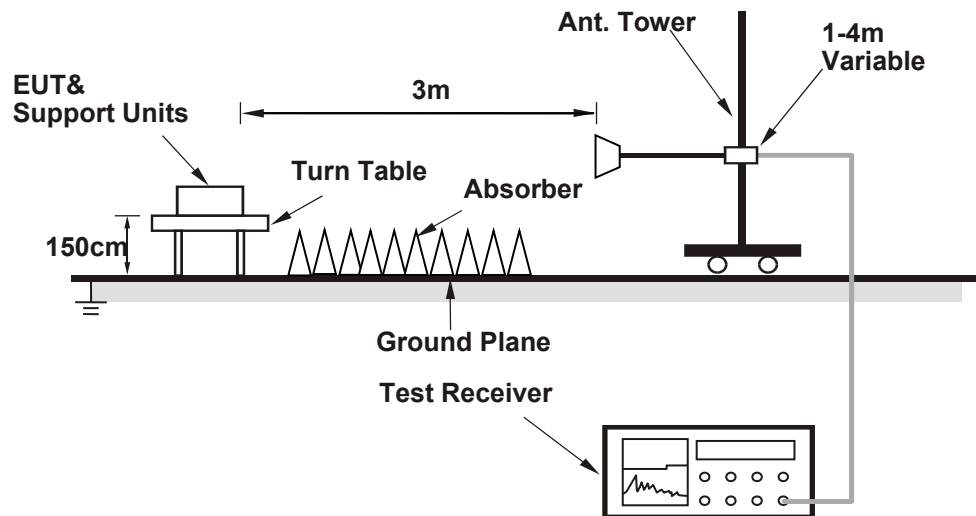
No deviation.

4.2.4 Test Setup

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



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

4.2.5 Test Results

Below 1GHz

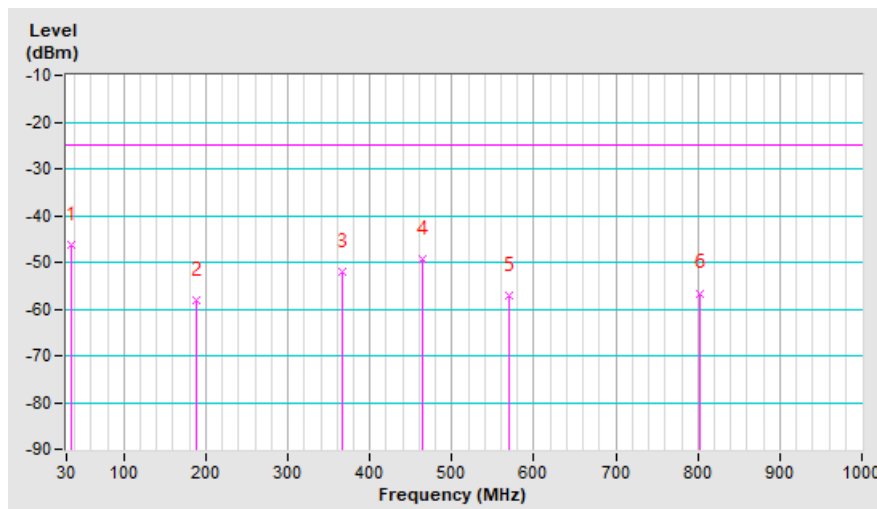
n7, Channel Bandwidth: 20MHz

Mode	TX channel 507000 (2535.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	35.82	-49.80	-30.40	-15.90	-46.30	-25.00	-21.30
2	189.08	-49.60	-55.20	-2.80	-58.00	-25.00	-33.00
3	365.62	-49.80	-56.00	3.80	-52.20	-25.00	-27.20
4	464.56	-49.10	-52.70	3.50	-49.20	-25.00	-24.20
5	569.32	-58.00	-60.80	3.80	-57.00	-25.00	-32.00
6	802.12	-62.30	-60.60	4.00	-56.60	-25.00	-31.60

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

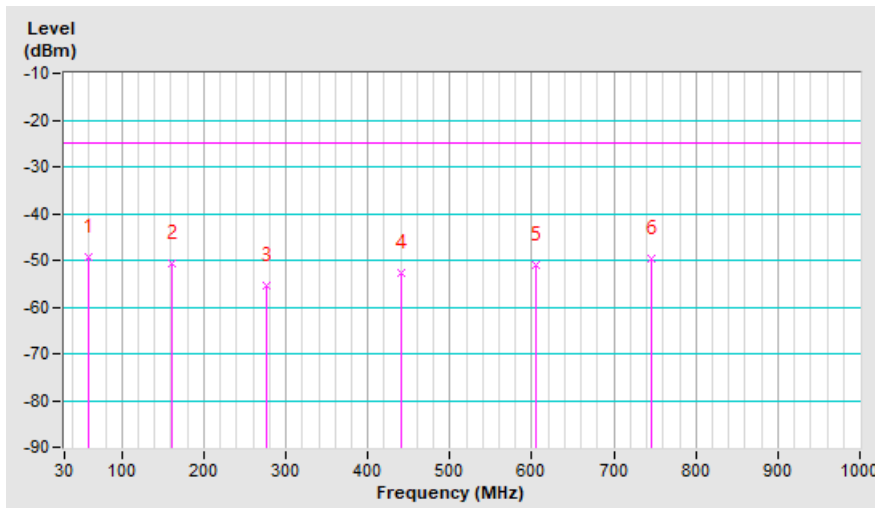


Mode	TX channel 507000 (2535.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	59.10	-42.60	-45.60	-3.80	-49.40	-25.00	-24.40
2	161.92	-47.90	-47.90	-2.90	-50.80	-25.00	-25.80
3	276.38	-58.60	-53.70	-1.60	-55.30	-25.00	-30.30
4	441.28	-52.70	-56.30	3.50	-52.80	-25.00	-27.80
5	604.24	-55.00	-54.60	3.60	-51.00	-25.00	-26.00
6	745.86	-56.70	-53.50	3.80	-49.70	-25.00	-24.70

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).



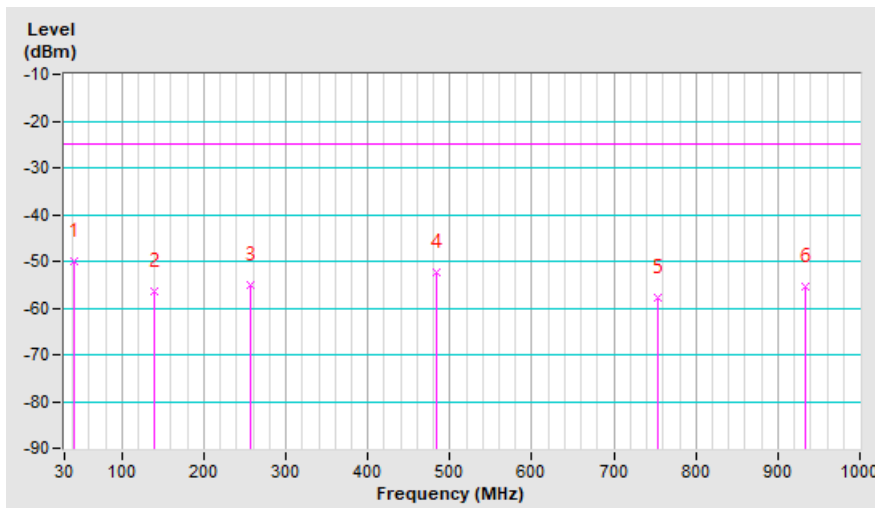
n38, Channel Bandwidth: 20MHz

Mode	TX channel 519000 (2595.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Jones Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	41.64	-52.10	-37.70	-12.30	-50.00	-25.00	-25.00
2	138.64	-50.30	-53.10	-3.20	-56.30	-25.00	-31.30
3	256.98	-49.80	-53.50	-1.50	-55.00	-25.00	-30.00
4	483.96	-52.30	-56.20	3.70	-52.50	-25.00	-27.50
5	753.62	-61.90	-61.80	3.90	-57.90	-25.00	-32.90
6	934.04	-63.50	-59.10	3.70	-55.40	-25.00	-30.40

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

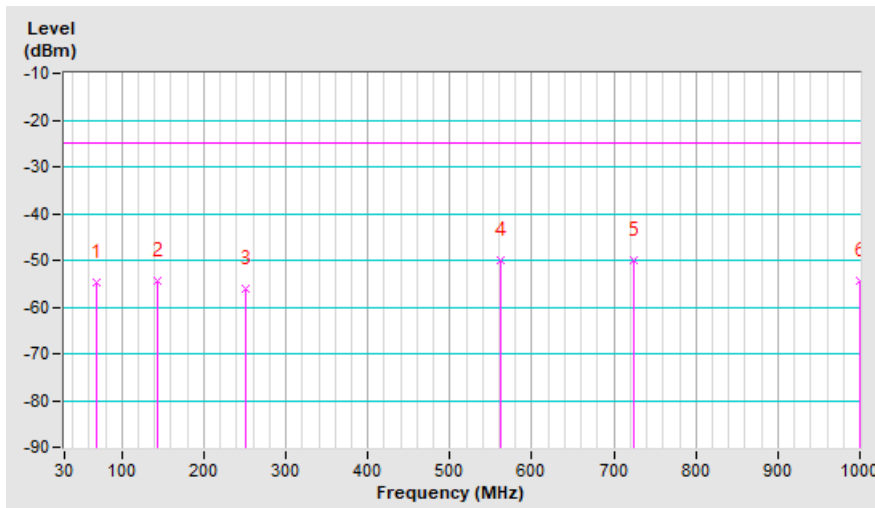


Mode	TX channel 519000 (2595.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Jones Chang		

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	68.80	-48.10	-53.90	-0.80	-54.70	-25.00	-29.70
2	142.52	-52.10	-51.20	-3.10	-54.30	-25.00	-29.30
3	251.16	-56.10	-54.70	-1.40	-56.10	-25.00	-31.10
4	561.56	-51.60	-53.60	3.70	-49.90	-25.00	-24.90
5	724.52	-56.50	-53.70	3.60	-50.10	-25.00	-25.10
6	1000.00	-64.60	-57.70	3.20	-54.50	-25.00	-29.50

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).



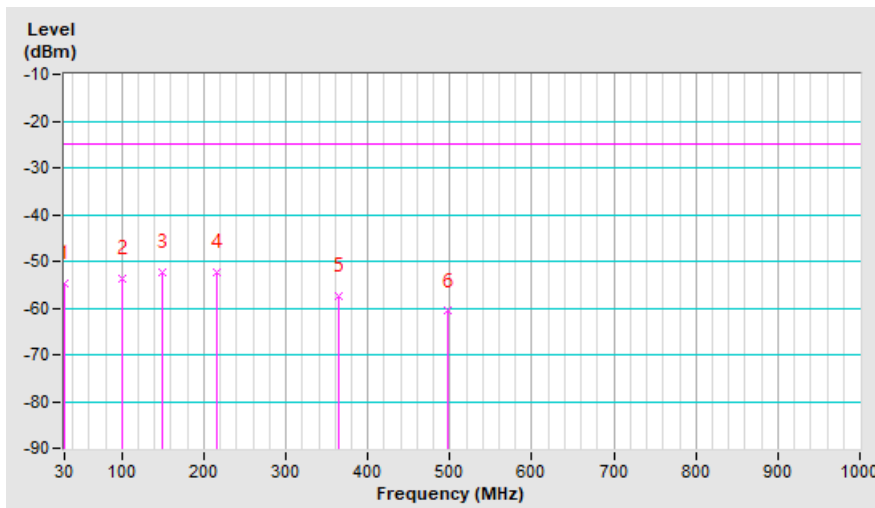
n41, Channel Bandwidth: 100MHz

Mode	TX channel 518598 (2592.99MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Jones Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	30.97	-58.30	-53.80	-0.80	-54.60	-25.00	-29.60
2	99.84	-45.40	-52.20	-1.60	-53.80	-25.00	-28.80
3	148.34	-47.60	-50.70	-1.70	-52.40	-25.00	-27.40
4	216.24	-44.20	-50.40	-2.10	-52.50	-25.00	-27.50
5	364.65	-54.90	-55.00	-2.40	-57.40	-25.00	-32.40
6	497.54	-60.60	-58.00	-2.70	-60.70	-25.00	-35.70

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

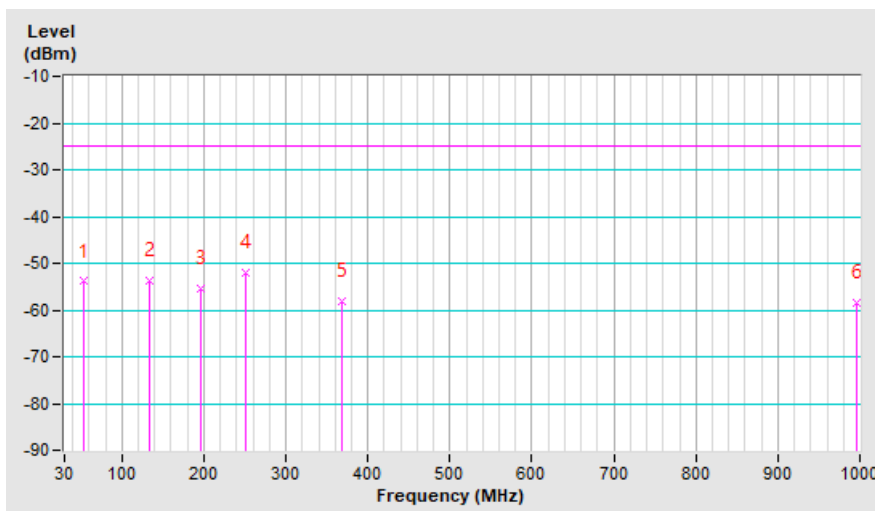


Mode	TX channel 518598 (2592.99MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Jones Chang		

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	53.28	-47.00	-47.70	-6.20	-53.90	-25.00	-28.90
2	132.82	-49.60	-50.50	-3.30	-53.80	-25.00	-28.80
3	195.87	-54.50	-52.90	-2.50	-55.40	-25.00	-30.40
4	250.19	-52.00	-50.70	-1.30	-52.00	-25.00	-27.00
5	368.53	-57.90	-62.00	3.80	-58.20	-25.00	-33.20
6	996.12	-68.60	-61.80	3.30	-58.50	-25.00	-33.50

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).



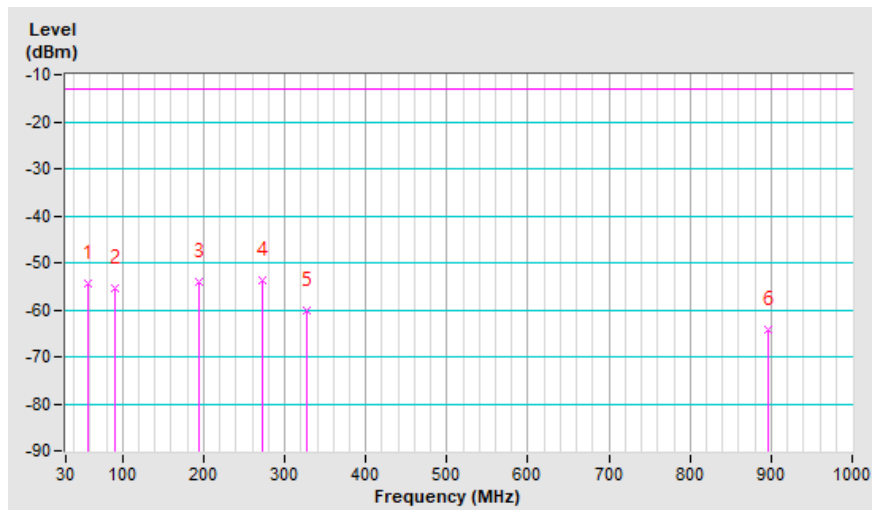
n66, Channel Bandwidth: 40MHz

Mode	TX channel 349000 (1745.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Jones Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	58.13	-50.30	-53.20	-1.20	-54.40	-13.00	-41.40
2	91.11	-47.20	-54.00	-1.50	-55.50	-13.00	-42.50
3	194.90	-45.70	-52.20	-2.00	-54.20	-13.00	-41.20
4	273.47	-49.40	-51.70	-2.10	-53.80	-13.00	-40.80
5	327.79	-56.40	-58.00	-2.20	-60.20	-13.00	-47.20
6	896.21	-71.60	-60.50	-3.70	-64.20	-13.00	-51.20

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

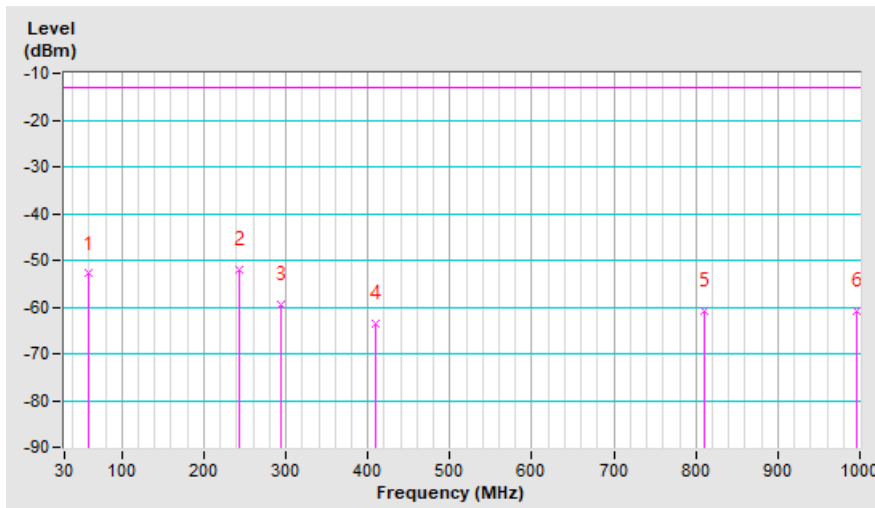


Mode	TX channel 349000 (1745.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Jones Chang		

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	59.10	-46.10	-51.70	-1.20	-52.90	-13.00	-39.90
2	243.40	-50.70	-50.00	-2.10	-52.10	-13.00	-39.10
3	293.84	-59.60	-57.20	-2.20	-59.40	-13.00	-46.40
4	409.27	-62.90	-60.80	-2.60	-63.40	-13.00	-50.40
5	810.85	-67.80	-57.50	-3.30	-60.80	-13.00	-47.80
6	995.15	-70.80	-56.70	-4.00	-60.70	-13.00	-47.70

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).



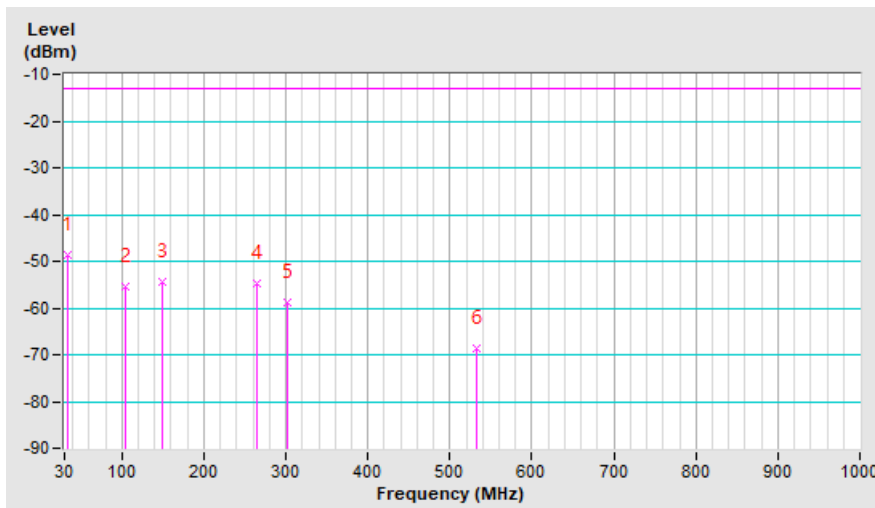
n71, Channel Bandwidth: 20MHz

Mode	TX channel 136100 (680.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Jones Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	33.88	-49.50	-31.60	-17.10	-48.70	-13.00	-35.70
2	103.72	-44.80	-53.40	-2.00	-55.40	-13.00	-42.40
3	149.31	-47.50	-51.40	-3.00	-54.40	-13.00	-41.40
4	264.74	-48.10	-53.10	-1.60	-54.70	-13.00	-41.70
5	302.57	-52.10	-62.40	3.70	-58.70	-13.00	-45.70
6	533.43	-66.80	-72.40	3.80	-68.60	-13.00	-55.60

Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB) + 2.15dB.

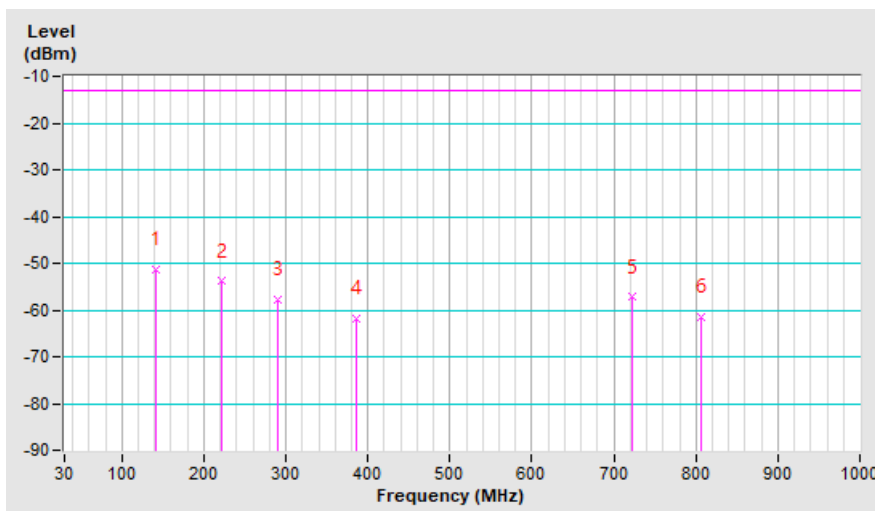


Mode	TX channel 136100 (680.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Jones Chang		

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	141.55	-46.80	-48.30	-3.00	-51.30	-13.00	-38.30
2	221.09	-47.80	-52.00	-1.90	-53.90	-13.00	-40.90
3	289.96	-56.80	-56.10	-1.70	-57.80	-13.00	-44.80
4	385.99	-59.10	-65.30	3.50	-61.80	-13.00	-48.80
5	721.61	-61.30	-60.90	3.60	-57.30	-13.00	-44.30
6	806.97	-66.30	-65.60	4.00	-61.60	-13.00	-48.60

Remarks:

- ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
- Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB) + 2.15dB.



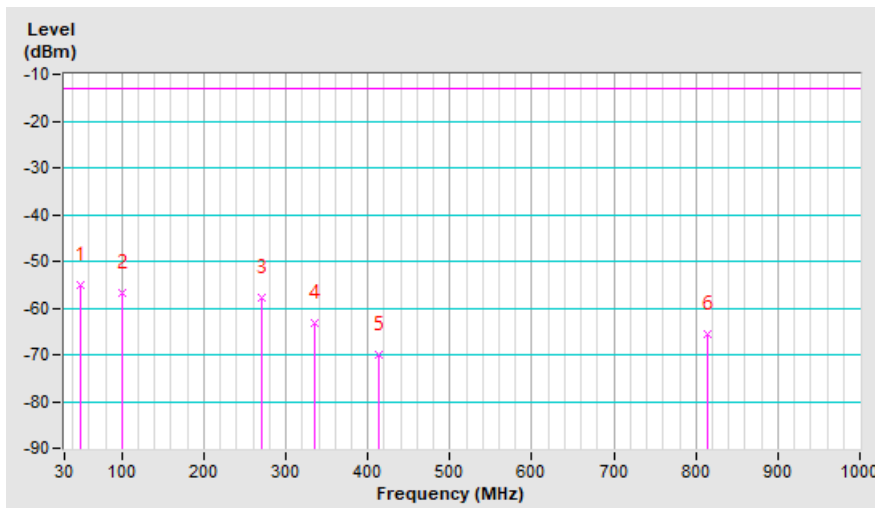
n77, Channel Bandwidth: 40MHz

Mode	TX channel 656000 (3840.00MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Jones Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	50.37	-54.20	-47.10	-7.90	-55.00	-13.00	-42.00
2	100.81	-48.40	-55.20	-1.60	-56.80	-13.00	-43.80
3	269.59	-53.70	-56.40	-1.40	-57.80	-13.00	-44.80
4	335.55	-59.60	-67.30	4.00	-63.30	-13.00	-50.30
5	413.15	-69.80	-73.20	3.30	-69.90	-13.00	-56.90
6	813.76	-71.60	-69.60	4.00	-65.60	-13.00	-52.60

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

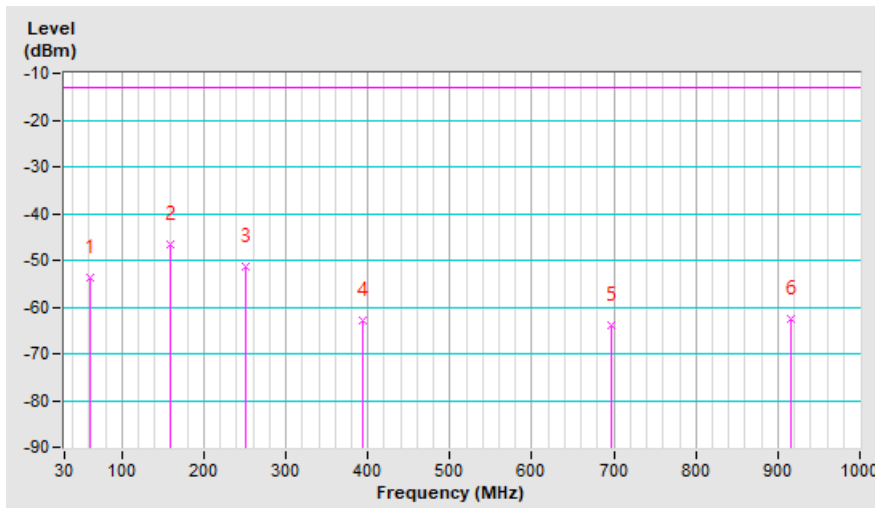


Mode	TX channel 656000 (3840.00MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Jones Chang		

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	61.04	-47.00	-50.60	-3.20	-53.80	-13.00	-40.80
2	159.01	-43.70	-43.90	-2.80	-46.70	-13.00	-33.70
3	250.19	-51.40	-50.10	-1.30	-51.40	-13.00	-38.40
4	394.72	-62.20	-66.20	3.30	-62.90	-13.00	-49.90
5	696.39	-69.50	-67.20	3.40	-63.80	-13.00	-50.80
6	915.61	-70.80	-66.00	3.60	-62.40	-13.00	-49.40

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).



Above 1GHz
n7, Channel Bandwidth: 20MHz

Mode	TX channel 507000 (2535.0MHz)	Frequency Range	1GHz ~ 26.5GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	5070.00	-57.50	-45.00	1.40	-43.60	-25.00	-18.60
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	5070.00	-61.40	-50.00	1.40	-48.60	-25.00	-23.60

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

n38, Channel Bandwidth: 20MHz

Mode	TX channel 519000 (2595.0MHz)	Frequency Range	1GHz ~ 26.5GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Jones Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	5190.00	-65.20	-53.50	1.40	-52.10	-25.00	-27.10
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	5190.00	-70.50	-58.30	1.40	-56.90	-25.00	-31.90

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

n41, Channel Bandwidth: 100MHz

Mode	TX channel 518598 (2592.99MHz)	Frequency Range	1GHz ~ 30GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Jones Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	5185.98	-66.10	-54.40	1.40	-53.00	-25.00	-28.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	5185.98	-68.10	-55.90	1.40	-54.50	-25.00	-29.50

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

n66, Channel Bandwidth: 40MHz

Mode	TX channel 349000 (1745.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Jones Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3490.00	-63.00	-54.80	1.50	-53.30	-13.00	-40.30
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3490.00	-61.10	-53.50	1.50	-52.00	-13.00	-39.00

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

n71, Channel Bandwidth: 20MHz

Mode	TX channel 136100 (680.5MHz)	Frequency Range	1GHz ~ 10GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Jones Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1361.00	-58.40	-52.60	0.60	-52.00	-13.00	-39.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1361.00	-60.00	-55.20	0.60	-54.60	-13.00	-41.60

Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB) + 2.15dB.

n77, Channel Bandwidth: 40MHz

Mode	TX channel 656000 (3840.00MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Jones Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	7680.00	-70.10	-52.30	1.10	-51.20	-13.00	-38.20
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	7680.00	-68.40	-50.30	1.10	-49.20	-13.00	-36.20

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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