

FCC Test Report (ENDC: n66 + LTE B2)

Report No.: RFBCKT-WTW-P22010886-12

FCC ID: HFSQTAD53N

Test Model: QTAD53

Received Date: Feb. 10, 2022

Test Date: Feb. 27 ~ Mar. 06, 2022

Issued Date: Mar. 30, 2022

Applicant: Quanta Computer Inc.

Address: NO. 188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan
(R.O.C)

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 /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RFBCKT-WTW-P22010886-12	Original release	Mar. 30, 2022

1 Certificate of Conformity

Product: 5G Hotspot
Brand: T-Mobile
Test Model: QTAD53
Sample Status: Engineering sample
Applicant: Quanta Computer Inc.
Test Date: Feb. 27 ~ Mar. 06, 2022
Standards: FCC Part 24, Subpart E
FCC Part 27, Subpart C, L

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 : Pettie Chen, **Date:** Mar. 30, 2022
Pettie Chen / Senior Specialist

Approved by : Jeremy Lin, **Date:** Mar. 30, 2022
Jeremy Lin / Project Engineer

2 Summary of Test Results

For n66

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50 (d)(4)	Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.
27.50 (d)(5)	Peak To Average Ratio	Pass	Meet the requirement of limit.
2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Meet the requirement of limit.
2.1049	Occupied Bandwidth	Pass	Meet the requirement of limit.
2.1051 27.53 (h)	Band Edge Measurements	Pass	Meet the requirement of limit.
2.1051 27.53 (h)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 27.53 (h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -35.20dB at 935.98MHz.

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

For LTE Band 2

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective Isotropically Radiated Power	Pass	Meet the requirement of limit.
2.1046 24.232 (d)	Peak To Average Ratio	Pass	Refer to Note 1
2.1047	Modulation Characteristics	Pass	Refer to Note 1
2.1055 24.235	Frequency Stability	Pass	Refer to Note 1
2.1049	Occupied Bandwidth	Pass	Refer to Note 1
24.238	Band Edge Measurements	Pass	Refer to Note 1
2.1051 24.238	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -34.12dB at 3818.60MHz.

Note:

1. This report is a partial report. Therefore, only test item of Transmitter Output Power and Equivalent Isotropically Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBCKT-WTW-P22010886-4.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.59 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. 09, 2021	Apr. 08, 2022
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 10, 2021	Jun. 09, 2022
MXG Vector signal generator Agilent	N5182B	MY53050430	Nov. 25, 2021	Nov. 24, 2022
Radio Communication Analyzer Anritsu	MT8821C	6261806803	Feb. 16, 2022	Feb. 15, 2023
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Oct. 28, 2021	Oct. 27, 2022
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 14, 2021	Nov. 13, 2022
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Oct. 26, 2021	Oct. 25, 2022
Loop Antenna TESEQ	HLA 6121	45745	Jul. 21, 2021	Jul. 20, 2022
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jun. 05, 2021	Jun. 04, 2022
Preamplifier Agilent (Above 1GHz)	8449B	3008A01887	Feb. 17, 2022	Feb. 16, 2023
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM- SM8000	CABLE-CH9-02 (248780+171006)	Jan. 15, 2022	Jan. 14, 2023
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9- (250795/4)	Jan. 15, 2022	Jan. 14, 2023
RF signal cable Woken	8D-FB	Cable-CH9-01	Jun. 05, 2021	Jun. 04, 2022
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	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
Standard Temperature And Humidity Chamber GIANT FORCE	GTH-120-40-CP-AR	MAA1306-019	Sep. 10, 2021	Sep. 09, 2022
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
True RMS Clamp Meter Fluke	325	31130711WS	Jun. 02, 2021	Jun. 01, 2022
DC power supply Keysight	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	5G Hotspot
Brand	T-Mobile
Test Model	QTAD53
Sample Status	Engineering sample
Power Supply	5Vdc / 9Vdc / 12Vdc (Adapter)
Rating	3.85Vdc (Battery)

n66

Modulation Type	$\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM					
Waveform Type	CP-OFDM, DFT-s-OFDM					
Operating Frequency	n66 (Channel Bandwidth 5MHz)	1712.5MHz ~ 1777.5MHz				
	n66 (Channel Bandwidth 10MHz)	1715.0MHz ~ 1775.0MHz				
	n66 (Channel Bandwidth 15MHz)	1717.5MHz ~ 1772.5MHz				
	n66 (Channel Bandwidth 20MHz)	1720.0MHz ~ 1770.0MHz				
	n66 (Channel Bandwidth 40MHz)	1730.0MHz ~ 1760.0MHz				
Max. EIRP Power		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
	n66 (Channel Bandwidth 5MHz)	420.727mW (26.24dBm)	437.522mW (26.41dBm)	319.154mW (25.04dBm)	287.740mW (24.59dBm)	183.231mW (22.63dBm)
	n66 (Channel Bandwidth 10MHz)	429.536mW (26.33dBm)	428.549mW (26.32dBm)	315.500mW (24.99dBm)	295.121mW (24.70dBm)	183.231mW (22.63dBm)
	n66 (Channel Bandwidth 15MHz)	433.511mW (26.37dBm)	429.536mW (26.33dBm)	320.627mW (25.06dBm)	303.389mW (24.82dBm)	188.365mW (22.75dBm)
	n66 (Channel Bandwidth 20MHz)	436.516mW (26.40dBm)	432.514mW (26.36dBm)	314.051mW (24.97dBm)	296.483mW (24.72dBm)	182.810mW (22.62dBm)
	n66 (Channel Bandwidth 40MHz)	433.511mW (26.37dBm)	443.609mW (26.47dBm)	325.087mW (25.12dBm)	309.030mW (24.90dBm)	191.426mW (22.82dBm)
Emission Designator		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
	n66 (Channel Bandwidth 5MHz)	4M47G7D	4M47G7D	4M47D7W	4M47D7W	4M46D7W
	n66 (Channel Bandwidth 10MHz)	8M92G7D	8M93G7D	8M92D7W	8M93D7W	8M93D7W
	n66 (Channel Bandwidth 15MHz)	13M4G7D	13M4G7D	13M4D7W	13M4D7W	13M4D7W
	n66 (Channel Bandwidth 20MHz)	17M8G7D	17M8G7D	17M9D7W	17M8D7W	17M8D7W
	n66 (Channel Bandwidth 40MHz)	38M5G7D	38M6G7D	38M5D7W	38M5D7W	38M5D7W

LTE Band

Modulation Type	QPSK, 16QAM, 64QAM, 256QAM				
Operating Frequency	LTE Band 2 (Channel Bandwidth 1.4MHz)	1850.7MHz ~ 1909.3MHz			
	LTE Band 2 (Channel Bandwidth 3MHz)	1851.5MHz ~ 1908.5MHz			
	LTE Band 2 (Channel Bandwidth 5MHz)	1852.5MHz ~ 1907.5MHz			
	LTE Band 2 (Channel Bandwidth 10MHz)	1855.0MHz ~ 1905.0MHz			
	LTE Band 2 (Channel Bandwidth 15MHz)	1857.5MHz ~ 1902.5MHz			
	LTE Band 2 (Channel Bandwidth 20MHz)	1860.0MHz ~ 1900.0MHz			
Max. EIRP Power		QPSK	16QAM	64QAM	256QAM
	LTE Band 2 (Channel Bandwidth 1.4MHz)	298.538mW (24.75dBm)	243.781mW (23.87dBm)	189.671mW (22.78dBm)	97.724mW (19.90dBm)
	LTE Band 2 (Channel Bandwidth 3MHz)	298.538mW (24.75dBm)	244.343mW (23.88dBm)	189.234mW (22.77dBm)	97.051mW (19.87dBm)
	LTE Band 2 (Channel Bandwidth 5MHz)	300.608mW (24.78dBm)	246.037mW (23.91dBm)	190.108mW (22.79dBm)	97.051mW (19.87dBm)
	LTE Band 2 (Channel Bandwidth 10MHz)	298.538mW (24.75dBm)	242.661mW (23.85dBm)	189.234mW (22.77dBm)	97.949mW (19.91dBm)
	LTE Band 2 (Channel Bandwidth 15MHz)	300.608mW (24.78dBm)	244.906mW (23.89dBm)	189.671mW (22.78dBm)	97.051mW (19.87dBm)
	LTE Band 2 (Channel Bandwidth 20MHz)	304.089mW (24.83dBm)	246.604mW (23.92dBm)	190.546mW (22.80dBm)	98.175mW (19.92dBm)
Antenna Type	Refer to Note as below				
Antenna Connector	Refer to Note as below				
Accessory Device	Refer to Note as below				
Cable Supplied	Refer to Note as below				

Note:

- The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter 1	TEN PAO INTERNATIONAL LTD.	S018BYU1200150	I/P: 100-240Vac, 50/60Hz, 600mA O/P: 5Vdc/9Vdc/12Vdc=3A/2A/1.5A
Adapter 2	Aohai Technology Co., Ltd	A138A-120150U-US2	I/P: 100-240V~50/60Hz, 0.5A O/P: 5Vdc, 2.5A/9Vdc, 2A/12Vdc, 1.5A
USB Cable 1	Electronics Taiwai Ltd.	DDEMU110079	0.95m shielded USB cable without core
USB Cable 2	IMEX INC	60-6382-520-FA	0.97m shielded USB cable without core
Battery	VEKEN	141033	3.85Vdc, 6460mAh, 24.87Wh

* After pre-tested, adapter 2 and USB cable 1 were the worst case and chosen for final test.

- There are two sources for EUT's memory. Only the supplier is different and the rest of the specifications are the same.

Sample	Item	Brand	Model
A	Memory - Main	Nanya Technology Corporation	NM4888KSPAXAI-3E
B	Memory - Second	Jeju Semiconductor Corp.	JSFDDQ5QHAFGD-405

* After pre-tested, sample A was the worse and chosen for final test.

3. The following antennas were provided to the EUT.

LTE Band														
Ant. No.	Type	Connector	Gain (dBi)											
			B2	B4	B5	B7	B12	B13	B25	B26	B38	B41	B66	B71
0	PIFA	MUR	1.23871	3.16163	0.345671	1.15435	0.154297	-3.23099	1.23871	0.702007	0.371642	1.15435	3.16163	0.426023
1	PIFA	IPEX	-	-	-	-	-	-	-	-	-	-	-	-
2	PIFA	IPEX	0.861738	0.805343	-	-	-	-	-	-	-	-	0.805343	-
3	PIFA	MUR	-	-	-	-	-	-	-	-	-	-	-	-
4	PIFA	IPEX	-	-	-	-	-	-	-	-	-	-	-	-

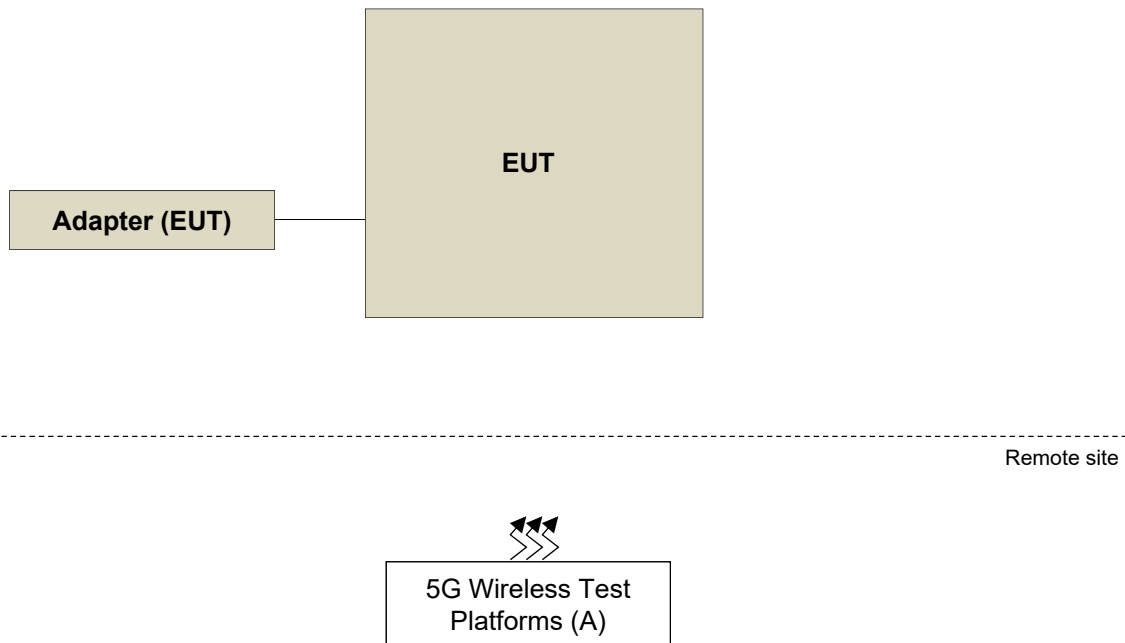
5G FR1 Band							
Ant. No.	Type	Connector	Gain (dBi)				
			n25	n41	n66	n71	
0	PIFA	MUR	1.23871	-	3.16163	0.426023	
1	PIFA	IPEX	-	-	-	-	
2	PIFA	IPEX	-	0.854078	-	-	
3	PIFA	MUR	-	-	-	-	
4	PIFA	IPEX	-	-0.283214	-	-	

* 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.

4. The EUT supports the following ENDC configuration.

5G NR	FCC 5G FR1			ENDC
	Band	SCS	Bandwidth (MHz)	
	n25	15kHz	5/10/15/20	Band 66
	n41	30kHz	10/15/20/40/50/60/80/90/100	Band 2/66
	n66	15kHz	5/10/15/20/40	Band 2
	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.	5G Wireless Test Platforms	Keysight	E7515B	MY58300759	NA	-

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

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

Band	Radiated Emission
n66	X-plane
LTE Band 2	X-plane

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 / 1 RB Offset 1 RB / 13 RB Offset 1 RB / 23 RB Offset 12 RB / 0 RB Offset 12 RB / 7 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 / 1 RB Offset 1 RB / 26 RB Offset 1 RB / 50 RB Offset 25 RB / 0 RB Offset 25 RB / 14 RB Offset 25 RB / 27 RB Offset 50 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 / 1 RB Offset 1 RB / 40 RB Offset 1 RB / 77 RB Offset 36 RB / 0 RB Offset 36 RB / 22 RB Offset 36 RB / 43 RB Offset 75 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 / 1 RB Offset 1 RB / 53 RB Offset 1 RB / 104 RB Offset 50RB / 0 RB Offset 50 RB / 28 RB Offset 50 RB / 56 RB Offset 100 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 / 1 RB Offset 1 RB / 108 RB Offset 1 RB / 214 RB Offset 108RB / 0 RB Offset 108 RB / 54 RB Offset 108 RB / 108 RB Offset 216 RB / 0 RB Offset
-	Modulation characteristics	346000 to 352000	349000 (1745.0MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	216 RB / 0 RB Offset

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

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Peak to Average Ratio	342500 to 355500	342500 (1712.5MHz), 349000 (1745.0MHz), 355500 (1777.5MHz)	5MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		343000 to 355000	343000 (1715.0MHz), 349000 (1745.0MHz), 355000 (1775.0MHz)	10MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		343500 to 354500	343500 (1717.5MHz), 349000 (1745.0MHz), 354500 (1772.5MHz)	15MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		344000 to 354000	344000 (1720.0MHz), 349000 (1745.0MHz), 354000 (1770.0MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		346000 to 352000	346000 (1730.0MHz), 349000 (1745.0MHz), 352000 (1760.0MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
-	Conducted Emission	342500 to 355500	342500 (1712.5MHz), 349000 (1745.0MHz), 355500 (1777.5MHz)	5MHz	QPSK	1 RB / 1 RB Offset
		343000 to 355000	343000 (1715.0MHz), 349000 (1745.0MHz), 355000 (1775.0MHz)	10MHz	QPSK	1 RB / 1 RB Offset
		343500 to 354500	343500 (1717.5MHz), 349000 (1745.0MHz), 354500 (1772.5MHz)	15MHz	QPSK	1 RB / 1 RB Offset
		344000 to 354000	344000 (1720.0MHz), 349000 (1745.0MHz), 354000 (1770.0MHz)	20MHz	QPSK	1 RB / 1 RB Offset
		346000 to 352000	346000 (1730.0MHz), 349000 (1745.0MHz), 352000 (1760.0MHz)	40MHz	QPSK	1 RB / 1 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	346000 to 352000	349000 (1745.0MHz)	40MHz	QPSK	1 RB / 1 RB Offset
-	Radiated Emission Above 1GHz	342500 to 355500	342500 (1712.5MHz), 349000 (1745.0MHz), 355500 (1777.5MHz)	5MHz	QPSK	1 RB / 1 RB Offset
		344000 to 354000	344000 (1720.0MHz), 349000 (1745.0MHz), 354000 (1770.0MHz)	20MHz	QPSK	1 RB / 1 RB Offset
		346000 to 352000	346000 (1730.0MHz), 349000 (1745.0MHz), 352000 (1760.0MHz)	40MHz	QPSK	1 RB / 1 RB Offset

Note:

1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 38.521-1 Section 6.5.3.1.4, choose the lowest, mid and highest channel bandwidth for final test.
3. Only output power, modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM modes, the other test items were performed under worse mode according to the maximum output power.

LTE Band 2

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	18607 to 19193	18607 (1850.7MHz), 18900 (1880.0MHz), 19193 (1909.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		18615 to 19185	18615 (1851.5MHz), 18900 (1880.0MHz), 19185 (1908.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		18625 to 19175	18625 (1852.5MHz), 18900 (1880.0MHz), 19175 (1907.5MHz)	5MHz	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
		18650 to 19150	18650 (1855.0MHz), 18900 (1880.0MHz), 19150 (1905.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		18675 to 19125	18675 (1857.5MHz), 18900 (1880.0MHz), 19125 (1902.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		18700 to 19100	18700 (1860.0MHz), 18900 (1880.0MHz), 19100 (1900.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	18700 to 19100	18900 (1880.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	18607 to 19193	18607 (1850.7MHz), 18900 (1880.0MHz), 19193 (1909.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625 (1852.5MHz), 18900 (1880.0MHz), 19175 (1907.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700 (1860.0MHz), 18900 (1880.0MHz), 19100 (1900.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore the radiated emission test items was performed under QPSK mode only.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	25deg. C, 60%RH	120Vac, 60Hz	James Yang
Modulation Characteristics	25deg. C, 60%RH	120Vac, 60Hz	James Yang
Frequency Stability	25deg. C, 60%RH	3.85Vdc	James Yang
Occupied Bandwidth	25deg. C, 60%RH	120Vac, 60Hz	James Yang
Band Edge	25deg. C, 60%RH	120Vac, 60Hz	James Yang
Peak To Average Ratio	25deg. C, 60%RH	120Vac, 60Hz	James Yang
Conducted Emission	25deg. C, 60%RH	120Vac, 60Hz	James Yang
Radiated Emission	23deg. C, 65%RH 22deg. C, 66%RH	120Vac, 60Hz	Jones Chang Rex Wang

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 24

FCC 47 CFR Part 27

ANSI/TIA/EIA-603-D-2010

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

KDB 971168 D02 Misc Rev Approv License Devices v02r01

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

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

For n66:

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

For LTE Band 2:

Mobile / Portable station are limited to 2 watts e.i.r.p.

4.1.2 Test Procedures

Conducted Power Measurement:

The EUT was set up for the maximum power with 5GNR and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

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:

$$\text{EIRP} = P_{\text{Meas}} + G_{\text{T}}$$

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

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:



4.1.4 Test Results

Conducted Output Power (dBm)

NR Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		346000	349000	352000
		Frequency (MHz)		1730	1745	1760
40M	$\pi/2$ BPSK	1	1	23.18	23.07	23.21
40M	QPSK	1	1	23.24	23.14	23.31
		1	108	23.25	23.22	23.24
		1	214	23.02	23.01	23.10
		108	0	21.98	22.04	22.12
		108	54	23.20	23.15	23.30
		108	108	21.97	22.03	22.11
		216	0	22.05	22.11	22.19
40M	16QAM	1	1	21.82	21.88	21.96
40M	64QAM	1	1	21.60	21.66	21.74
40M	256QAM	1	1	19.52	19.58	19.66
BW	MCS Index	Channel		344000	349000	354000
		Frequency (MHz)		1720	1745	1770
20M	$\pi/2$ BPSK	1	1	23.21	23.10	23.24
20M	QPSK	1	1	23.15	23.05	23.20
		1	53	23.18	23.15	23.17
		1	104	22.95	22.94	23.03
		50	0	21.95	22.01	22.09
		50	28	23.06	23.01	23.07
		50	56	21.90	21.96	22.04
		100	0	21.94	22.00	22.08
20M	16QAM	1	1	21.67	21.73	21.81
20M	64QAM	1	1	21.42	21.48	21.56
20M	256QAM	1	1	19.32	19.38	19.46
BW	MCS Index	Channel		343500	349000	354500
		Frequency (MHz)		1717.5	1745	1772.5
15M	$\pi/2$ BPSK	1	1	23.18	23.07	23.21
15M	QPSK	1	1	23.12	23.02	23.17
		1	40	23.15	23.12	23.14
		1	77	23.09	23.08	23.17
		36	0	21.86	21.92	22.00
		36	22	23.00	22.95	23.01
		36	43	21.89	21.95	22.03
		75	0	21.96	22.02	22.10
15M	16QAM	1	1	21.76	21.82	21.90
15M	64QAM	1	1	21.52	21.58	21.66
15M	256QAM	1	1	19.45	19.51	19.59

NR Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		343000	349000	355000
		Frequency (MHz)		1715	1745	1775
10M	$\pi/2$ BPSK	1	1	23.14	23.03	23.17
10M	QPSK	1	1	23.11	23.01	23.16
		1	26	23.03	23.00	23.02
		1	50	22.96	22.95	23.04
		25	0	21.92	21.98	22.06
		25	14	23.05	23.00	23.06
		25	27	21.90	21.96	22.04
		50	0	21.87	21.93	22.01
10M	16QAM	1	1	21.69	21.75	21.83
10M	64QAM	1	1	21.40	21.46	21.54
10M	256QAM	1	1	19.33	19.39	19.47
BW	MCS Index	Channel		342500	349000	355500
		Frequency (MHz)		1712.5	1745	1777.5
5M	$\pi/2$ BPSK	1	1	23.05	22.94	23.08
5M	QPSK	1	1	23.20	23.10	23.25
		1	13	23.05	23.02	23.04
		1	23	23.02	23.01	23.10
		12	0	21.80	21.86	21.94
		12	7	22.90	22.85	22.91
		12	13	21.83	21.89	21.97
		25	0	21.95	22.01	22.09
5M	16QAM	1	1	21.74	21.80	21.88
5M	64QAM	1	1	21.29	21.35	21.43
5M	256QAM	1	1	19.33	19.39	19.47

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	23.59	23.54	23.49
		1	50	23.53	23.50	23.45
		1	99	23.47	23.44	23.39
		50	0	22.69	22.66	22.61
		50	25	22.65	22.62	22.57
		50	50	22.62	22.59	22.54
		100	0	22.61	22.58	22.53
20M	16QAM	1	0	22.68	22.65	22.60
		1	50	22.65	22.62	22.57
		1	99	22.63	22.60	22.55
		50	0	21.65	21.62	21.57
		50	25	21.58	21.55	21.50
		50	50	21.57	21.54	21.49
		100	0	21.53	21.50	21.45
20M	64QAM	1	0	21.56	21.53	21.48
		1	50	21.54	21.51	21.46
		1	99	21.53	21.50	21.45
		50	0	20.75	20.72	20.67
		50	25	20.67	20.64	20.59
		50	50	20.65	20.62	20.57
		100	0	20.61	20.58	20.53
20M	256QAM	1	0	18.68	18.60	18.55
		1	50	18.67	18.64	18.59
		1	99	18.59	18.56	18.51
		50	0	18.63	18.60	18.55
		50	25	18.63	18.60	18.55
		50	50	18.58	18.55	18.50
		100	0	18.61	18.58	18.53

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	23.54	23.46	23.43
		1	37	23.48	23.41	23.42
		1	74	23.43	23.44	23.38
		36	0	22.62	22.59	22.53
		36	19	22.58	22.53	22.51
		36	39	22.60	22.54	22.45
		75	0	22.59	22.51	22.43
15M	16QAM	1	0	22.65	22.62	22.54
		1	37	22.60	22.59	22.52
		1	74	22.53	22.54	22.54
		36	0	21.65	21.60	21.49
		36	19	21.52	21.45	21.40
		36	39	21.57	21.51	21.40
		75	0	21.47	21.48	21.43
15M	64QAM	1	0	21.54	21.51	21.42
		1	37	21.51	21.51	21.36
		1	74	21.53	21.41	21.42
		36	0	20.65	20.70	20.60
		36	19	20.65	20.61	20.53
		36	39	20.59	20.54	20.52
		75	0	20.52	20.56	20.51
15M	256QAM	1	0	18.63	18.59	18.50
		1	37	18.60	18.61	18.58
		1	74	18.59	18.54	18.46
		36	0	18.57	18.51	18.54
		36	19	18.57	18.54	18.49
		36	39	18.57	18.52	18.45
		75	0	18.52	18.57	18.47

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	23.45	23.51	23.40
		1	24	23.48	23.50	23.45
		1	49	23.45	23.43	23.36
		25	0	22.64	22.60	22.57
		25	12	22.60	22.57	22.48
		25	25	22.55	22.55	22.46
		50	0	22.54	22.53	22.53
10M	16QAM	1	0	22.61	22.60	22.50
		1	24	22.57	22.60	22.55
		1	49	22.53	22.55	22.48
		25	0	21.61	21.62	21.48
		25	12	21.53	21.48	21.45
		25	25	21.51	21.49	21.44
		50	0	21.51	21.49	21.37
10M	64QAM	1	0	21.51	21.48	21.39
		1	24	21.53	21.49	21.45
		1	49	21.43	21.50	21.42
		25	0	20.69	20.67	20.65
		25	12	20.61	20.57	20.49
		25	25	20.65	20.56	20.54
		50	0	20.51	20.58	20.44
10M	256QAM	1	0	18.62	18.52	18.54
		1	24	18.67	18.59	18.51
		1	49	18.54	18.46	18.51
		25	0	18.56	18.51	18.52
		25	12	18.58	18.60	18.49
		25	25	18.57	18.45	18.41
		50	0	18.60	18.55	18.44

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	23.54	23.47	23.37
		1	12	23.49	23.46	23.41
		1	24	23.47	23.41	23.35
		12	0	22.64	22.58	22.53
		12	6	22.60	22.55	22.47
		12	13	22.53	22.50	22.53
		25	0	22.60	22.48	22.49
5M	16QAM	1	0	22.67	22.60	22.56
		1	12	22.57	22.56	22.49
		1	24	22.62	22.55	22.49
		12	0	21.56	21.62	21.50
		12	6	21.57	21.53	21.40
		12	13	21.55	21.54	21.40
		25	0	21.48	21.44	21.45
5M	64QAM	1	0	21.55	21.49	21.38
		1	12	21.47	21.45	21.38
		1	24	21.53	21.50	21.44
		12	0	20.69	20.69	20.61
		12	6	20.58	20.56	20.53
		12	13	20.63	20.58	20.54
		25	0	20.56	20.51	20.49
5M	256QAM	1	0	18.63	18.56	18.49
		1	12	18.58	18.60	18.57
		1	24	18.53	18.52	18.43
		12	0	18.55	18.59	18.52
		12	6	18.58	18.56	18.54
		12	13	18.57	18.55	18.48
		25	0	18.57	18.57	18.44

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	23.47	23.47	23.37
		1	7	23.51	23.40	23.43
		1	14	23.40	23.37	23.34
		8	0	22.67	22.57	22.60
		8	3	22.63	22.55	22.52
		8	7	22.53	22.49	22.50
		15	0	22.56	22.49	22.45
3M	16QAM	1	0	22.64	22.55	22.55
		1	7	22.57	22.59	22.56
		1	14	22.56	22.51	22.54
		8	0	21.55	21.56	21.56
		8	3	21.49	21.53	21.49
		8	7	21.49	21.51	21.39
		15	0	21.48	21.43	21.40
3M	64QAM	1	0	21.51	21.46	21.48
		1	7	21.53	21.48	21.36
		1	14	21.50	21.48	21.44
		8	0	20.66	20.68	20.67
		8	3	20.62	20.60	20.59
		8	7	20.56	20.60	20.54
		15	0	20.55	20.57	20.51
3M	256QAM	1	0	18.63	18.54	18.50
		1	7	18.59	18.62	18.56
		1	14	18.56	18.49	18.46
		8	0	18.60	18.59	18.53
		8	3	18.59	18.55	18.49
		8	7	18.55	18.54	18.43
		15	0	18.61	18.58	18.43

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	23.51	23.44	23.45
		1	2	23.45	23.45	23.42
		1	5	23.47	23.34	23.34
		3	0	23.39	23.32	23.33
		3	1	23.33	23.33	23.30
		3	3	23.35	23.22	23.22
		6	0	22.58	22.49	22.50
1.4M	16QAM	1	0	22.61	22.60	22.58
		1	2	22.63	22.57	22.50
		1	5	22.55	22.53	22.45
		3	0	22.33	22.26	22.27
		3	1	22.27	22.27	22.24
		3	3	22.29	22.16	22.16
		6	0	21.48	21.47	21.41
1.4M	64QAM	1	0	21.52	21.53	21.48
		1	2	21.54	21.48	21.43
		1	5	21.46	21.44	21.36
		3	0	21.32	21.25	21.26
		3	1	21.26	21.26	21.23
		3	3	21.28	21.15	21.15
		6	0	20.56	20.49	20.46
1.4M	256QAM	1	0	18.63	18.55	18.54
		1	2	18.66	18.55	18.57
		1	5	18.52	18.52	18.46
		3	0	18.59	18.55	18.45
		3	1	18.58	18.60	18.51
		3	3	18.53	18.52	18.49
		6	0	18.61	18.49	18.45

EIRP Power (dBm)

NR Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		346000	349000	352000
		Frequency (MHz)		1730	1745	1760
40M	$\pi/2$ BPSK	1	1	26.34	26.23	26.37
40M	QPSK	1	1	26.40	26.30	26.47
		1	108	26.41	26.38	26.40
		1	214	26.18	26.17	26.26
		108	0	25.14	25.20	25.28
		108	54	26.36	26.31	26.46
		108	108	25.13	25.19	25.27
		216	0	25.21	25.27	25.35
40M	16QAM	1	1	24.98	25.04	25.12
40M	64QAM	1	1	24.76	24.82	24.90
40M	256QAM	1	1	22.68	22.74	22.82
BW	MCS Index	Channel		344000	349000	354000
		Frequency (MHz)		1720	1745	1770
20M	$\pi/2$ BPSK	1	1	26.37	26.26	26.40
20M	QPSK	1	1	26.31	26.21	26.36
		1	53	26.34	26.31	26.33
		1	104	26.11	26.10	26.19
		50	0	25.11	25.17	25.25
		50	28	26.22	26.17	26.23
		50	56	25.06	25.12	25.20
		100	0	25.10	25.16	25.24
20M	16QAM	1	1	24.83	24.89	24.97
20M	64QAM	1	1	24.58	24.64	24.72
20M	256QAM	1	1	22.48	22.54	22.62
BW	MCS Index	Channel		343500	349000	354500
		Frequency (MHz)		1717.5	1745	1772.5
15M	$\pi/2$ BPSK	1	1	26.34	26.23	26.37
15M	QPSK	1	1	26.28	26.18	26.33
		1	40	26.31	26.28	26.30
		1	77	26.25	26.24	26.33
		36	0	25.02	25.08	25.16
		36	22	26.16	26.11	26.17
		36	43	25.05	25.11	25.19
		75	0	25.12	25.18	25.26
15M	16QAM	1	1	24.92	24.98	25.06
15M	64QAM	1	1	24.68	24.74	24.82
15M	256QAM	1	1	22.61	22.67	22.75

NR Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		343000	349000	355000
		Frequency (MHz)		1715	1745	1775
10M	$\pi/2$ BPSK	1	1	26.30	26.19	26.33
10M	QPSK	1	1	26.27	26.17	26.32
		1	26	26.19	26.16	26.18
		1	50	26.12	26.11	26.20
		25	0	25.08	25.14	25.22
		25	14	26.21	26.16	26.22
		25	27	25.06	25.12	25.20
		50	0	25.03	25.09	25.17
10M	16QAM	1	1	24.85	24.91	24.99
10M	64QAM	1	1	24.56	24.62	24.70
10M	256QAM	1	1	22.49	22.55	22.63
BW	MCS Index	Channel		342500	349000	355500
		Frequency (MHz)		1712.5	1745	1777.5
5M	$\pi/2$ BPSK	1	1	26.21	26.10	26.24
5M	QPSK	1	1	26.36	26.26	26.41
		1	13	26.21	26.18	26.20
		1	23	26.18	26.17	26.26
		12	0	24.96	25.02	25.10
		12	7	26.06	26.01	26.07
		12	13	24.99	25.05	25.13
		25	0	25.11	25.17	25.25
5M	16QAM	1	1	24.90	24.96	25.04
5M	64QAM	1	1	24.45	24.51	24.59
5M	256QAM	1	1	22.49	22.55	22.63

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	24.83	24.78	24.73
		1	50	24.77	24.74	24.69
		1	99	24.71	24.68	24.63
		50	0	23.93	23.90	23.85
		50	25	23.89	23.86	23.81
		50	50	23.86	23.83	23.78
		100	0	23.85	23.82	23.77
20M	16QAM	1	0	23.92	23.89	23.84
		1	50	23.89	23.86	23.81
		1	99	23.87	23.84	23.79
		50	0	22.89	22.86	22.81
		50	25	22.82	22.79	22.74
		50	50	22.81	22.78	22.73
		100	0	22.77	22.74	22.69
20M	64QAM	1	0	22.80	22.77	22.72
		1	50	22.78	22.75	22.70
		1	99	22.77	22.74	22.69
		50	0	21.99	21.96	21.91
		50	25	21.91	21.88	21.83
		50	50	21.89	21.86	21.81
		100	0	21.85	21.82	21.77
20M	256QAM	1	0	19.92	19.84	19.79
		1	50	19.91	19.88	19.83
		1	99	19.83	19.80	19.75
		50	0	19.87	19.84	19.79
		50	25	19.87	19.84	19.79
		50	50	19.82	19.79	19.74
		100	0	19.85	19.82	19.77

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	24.78	24.70	24.67
		1	37	24.72	24.65	24.66
		1	74	24.67	24.68	24.62
		36	0	23.86	23.83	23.77
		36	19	23.82	23.77	23.75
		36	39	23.84	23.78	23.69
		75	0	23.83	23.75	23.67
15M	16QAM	1	0	23.89	23.86	23.78
		1	37	23.84	23.83	23.76
		1	74	23.77	23.78	23.78
		36	0	22.89	22.84	22.73
		36	19	22.76	22.69	22.64
		36	39	22.81	22.75	22.64
		75	0	22.71	22.72	22.67
15M	64QAM	1	0	22.78	22.75	22.66
		1	37	22.75	22.75	22.60
		1	74	22.77	22.65	22.66
		36	0	21.89	21.94	21.84
		36	19	21.89	21.85	21.77
		36	39	21.83	21.78	21.76
		75	0	21.76	21.80	21.75
15M	256QAM	1	0	19.87	19.83	19.74
		1	37	19.84	19.85	19.82
		1	74	19.83	19.78	19.70
		36	0	19.81	19.75	19.78
		36	19	19.81	19.78	19.73
		36	39	19.81	19.76	19.69
		75	0	19.76	19.81	19.71

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	24.69	24.75	24.64
		1	24	24.72	24.74	24.69
		1	49	24.69	24.67	24.60
		25	0	23.88	23.84	23.81
		25	12	23.84	23.81	23.72
		25	25	23.79	23.79	23.70
		50	0	23.78	23.77	23.77
10M	16QAM	1	0	23.85	23.84	23.74
		1	24	23.81	23.84	23.79
		1	49	23.77	23.79	23.72
		25	0	22.85	22.86	22.72
		25	12	22.77	22.72	22.69
		25	25	22.75	22.73	22.68
		50	0	22.75	22.73	22.61
10M	64QAM	1	0	22.75	22.72	22.63
		1	24	22.77	22.73	22.69
		1	49	22.67	22.74	22.66
		25	0	21.93	21.91	21.89
		25	12	21.85	21.81	21.73
		25	25	21.89	21.80	21.78
		50	0	21.75	21.82	21.68
10M	256QAM	1	0	19.86	19.76	19.78
		1	24	19.91	19.83	19.75
		1	49	19.78	19.70	19.75
		25	0	19.80	19.75	19.76
		25	12	19.82	19.84	19.73
		25	25	19.81	19.69	19.65
		50	0	19.84	19.79	19.68

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	24.78	24.71	24.61
		1	12	24.73	24.70	24.65
		1	24	24.71	24.65	24.59
		12	0	23.88	23.82	23.77
		12	6	23.84	23.79	23.71
		12	13	23.77	23.74	23.77
		25	0	23.84	23.72	23.73
5M	16QAM	1	0	23.91	23.84	23.80
		1	12	23.81	23.80	23.73
		1	24	23.86	23.79	23.73
		12	0	22.80	22.86	22.74
		12	6	22.81	22.77	22.64
		12	13	22.79	22.78	22.64
		25	0	22.72	22.68	22.69
5M	64QAM	1	0	22.79	22.73	22.62
		1	12	22.71	22.69	22.62
		1	24	22.77	22.74	22.68
		12	0	21.93	21.93	21.85
		12	6	21.82	21.80	21.77
		12	13	21.87	21.82	21.78
		25	0	21.80	21.75	21.73
5M	256QAM	1	0	19.87	19.80	19.73
		1	12	19.82	19.84	19.81
		1	24	19.77	19.76	19.67
		12	0	19.79	19.83	19.76
		12	6	19.82	19.80	19.78
		12	13	19.81	19.79	19.72
		25	0	19.81	19.81	19.68

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	24.71	24.71	24.61
		1	7	24.75	24.64	24.67
		1	14	24.64	24.61	24.58
		8	0	23.91	23.81	23.84
		8	3	23.87	23.79	23.76
		8	7	23.77	23.73	23.74
		15	0	23.80	23.73	23.69
3M	16QAM	1	0	23.88	23.79	23.79
		1	7	23.81	23.83	23.80
		1	14	23.80	23.75	23.78
		8	0	22.79	22.80	22.80
		8	3	22.73	22.77	22.73
		8	7	22.73	22.75	22.63
		15	0	22.72	22.67	22.64
3M	64QAM	1	0	22.75	22.70	22.72
		1	7	22.77	22.72	22.60
		1	14	22.74	22.72	22.68
		8	0	21.90	21.92	21.91
		8	3	21.86	21.84	21.83
		8	7	21.80	21.84	21.78
		15	0	21.79	21.81	21.75
3M	256QAM	1	0	19.87	19.78	19.74
		1	7	19.83	19.86	19.80
		1	14	19.80	19.73	19.70
		8	0	19.84	19.83	19.77
		8	3	19.83	19.79	19.73
		8	7	19.79	19.78	19.67
		15	0	19.85	19.82	19.67

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	24.75	24.68	24.69
		1	2	24.69	24.69	24.66
		1	5	24.71	24.58	24.58
		3	0	24.63	24.56	24.57
		3	1	24.57	24.57	24.54
		3	3	24.59	24.46	24.46
		6	0	23.82	23.73	23.74
1.4M	16QAM	1	0	23.85	23.84	23.82
		1	2	23.87	23.81	23.74
		1	5	23.79	23.77	23.69
		3	0	23.57	23.50	23.51
		3	1	23.51	23.51	23.48
		3	3	23.53	23.40	23.40
		6	0	22.72	22.71	22.65
1.4M	64QAM	1	0	22.76	22.77	22.72
		1	2	22.78	22.72	22.67
		1	5	22.70	22.68	22.60
		3	0	22.56	22.49	22.50
		3	1	22.50	22.50	22.47
		3	3	22.52	22.39	22.39
		6	0	21.80	21.73	21.70
1.4M	256QAM	1	0	19.87	19.79	19.78
		1	2	19.90	19.79	19.81
		1	5	19.76	19.76	19.70
		3	0	19.83	19.79	19.69
		3	1	19.82	19.84	19.75
		3	3	19.77	19.76	19.73
		6	0	19.85	19.73	19.69

4.2 Modulation Characteristics Measurement

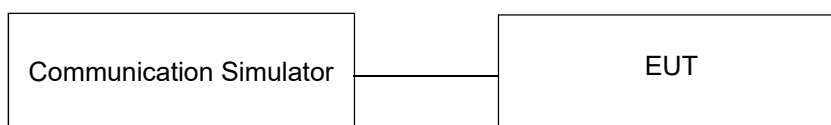
4.2.1 Limits of Modulation Characteristics

N/A

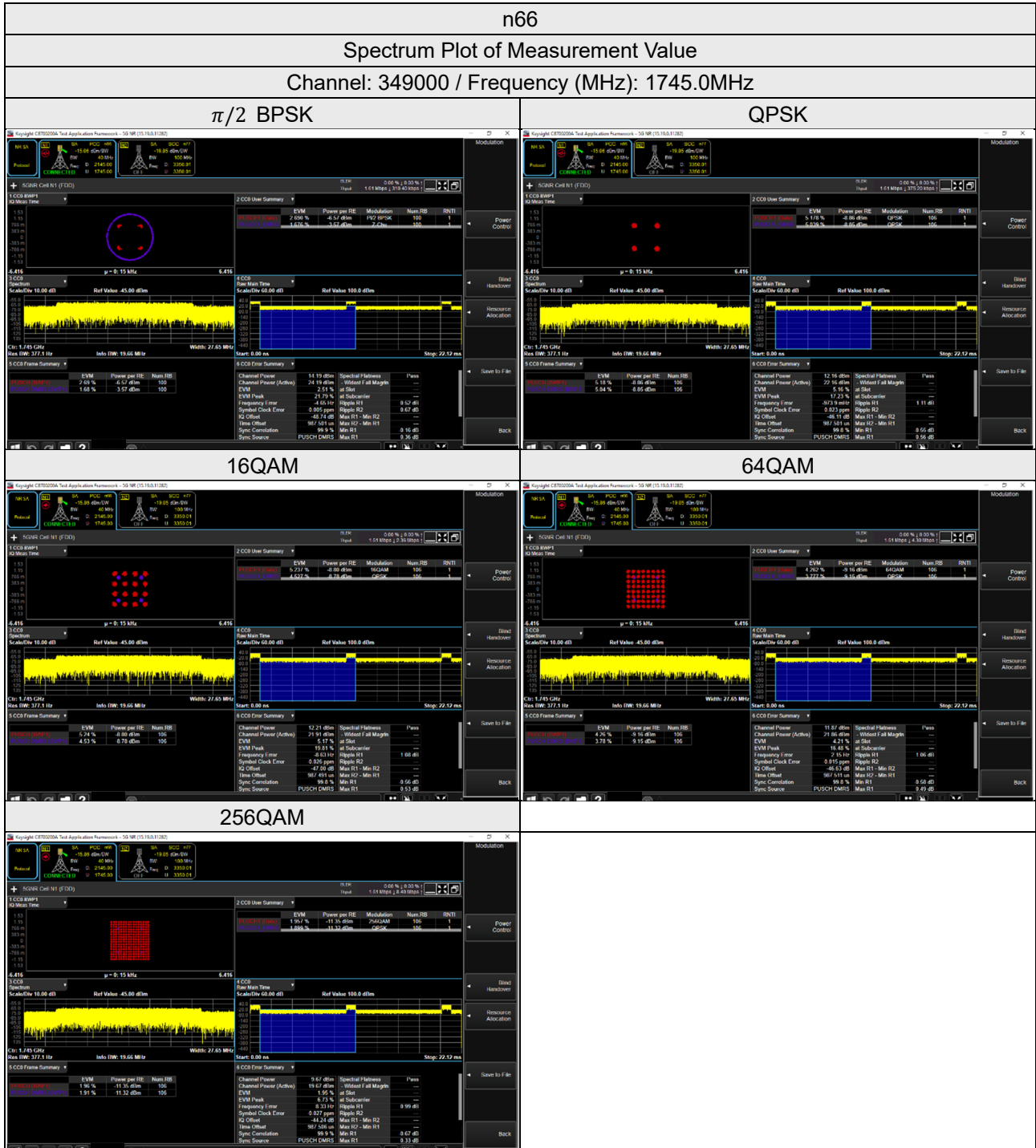
4.2.2 Test Procedure

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

4.2.3 Test Setup



4.2.4 Test Results



4.3 Frequency Stability Measurement

4.3.1 Limits of Frequency Stability Measurement

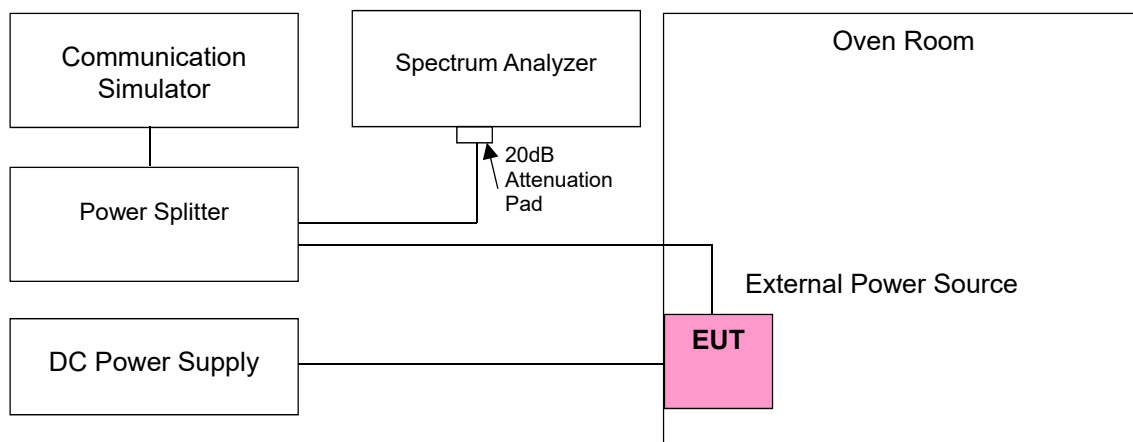
According to the FCC part 2.1055 shall be tested the frequency stability. The rule is defined that "The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block." The test extreme voltage is according to the 2.1055(d)(1) Vary primary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

4.3.2 Test Procedure

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

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

4.3.3 Test Setup



4.3.4 Test Results

Frequency Error vs. Voltage

Voltage (Vdc)	n66			
	Channel Bandwidth 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1712.499996	-0.002	1777.500000	-0.002
3.28	1712.500001	0.001	1777.500000	-0.002
4.43	1712.499999	-0.001	1777.500000	-0.002

Note: The applicant defined the normal working voltage is from 3.28Vdc to 4.43Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n66			
	Channel Bandwidth 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1712.499997	-0.002	1777.500000	-0.002
-20	1712.500001	0.001	1777.500000	0.001
-10	1712.500003	0.002	1777.500000	-0.001
0	1712.499997	-0.002	1777.500000	-0.001
10	1712.500004	0.002	1777.500000	0.002
20	1712.500002	0.001	1777.500000	-0.001
30	1712.500003	0.002	1777.500000	-0.002
40	1712.499997	-0.002	1777.500000	-0.001
50	1712.499999	-0.001	1777.500000	0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n66			
	Channel Bandwidth 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1715.000004	0.002	1774.999997	-0.002
3.28	1715.000001	0.001	1775.000001	0.001
4.43	1715.000002	0.001	1775.000003	0.002

Note: The applicant defined the normal working voltage is from 3.28Vdc to 4.43Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n66			
	Channel Bandwidth 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1714.999996	-0.002	1775.000001	0.001
-20	1715.000001	0.001	1775.000001	0.001
-10	1714.999996	-0.002	1775.000003	0.002
0	1714.999997	-0.002	1775.000002	0.001
10	1714.999997	-0.002	1775.000004	0.002
20	1715.000003	0.002	1774.999997	-0.002
30	1715.000002	0.001	1775.000003	0.002
40	1715.000001	0.001	1774.999998	-0.001
50	1715.000004	0.002	1775.000004	0.002

Frequency Error vs. Voltage

Voltage (Vdc)	n66			
	Channel Bandwidth 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1717.499999	-0.001	1772.499998	-0.001
3.28	1717.500004	0.002	1772.500003	0.002
4.43	1717.500003	0.002	1772.500003	0.002

Note: The applicant defined the normal working voltage is from 3.28Vdc to 4.43Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n66			
	Channel Bandwidth 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1717.499997	-0.002	1772.500001	0.001
-20	1717.499996	-0.002	1772.500001	0.001
-10	1717.500003	0.002	1772.499998	-0.001
0	1717.500004	0.002	1772.499996	-0.002
10	1717.499996	-0.002	1772.500004	0.002
20	1717.499999	-0.001	1772.499997	-0.002
30	1717.499998	-0.001	1772.500003	0.002
40	1717.500003	0.002	1772.499996	-0.002
50	1717.499997	-0.002	1772.499996	-0.002

Frequency Error vs. Voltage

Voltage (Vdc)	n66			
	Channel Bandwidth 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1720.000004	0.002	1770.000001	0.001
3.28	1719.999998	-0.001	1769.999998	-0.001
4.43	1719.999998	-0.001	1770.000003	0.002

Note: The applicant defined the normal working voltage is from 3.28Vdc to 4.43Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n66			
	Channel Bandwidth 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1720.000003	0.002	1770.000003	0.002
-20	1720.000002	0.001	1769.999997	-0.002
-10	1719.999996	-0.002	1769.999996	-0.002
0	1719.999998	-0.001	1770.000003	0.002
10	1720.000004	0.002	1770.000003	0.002
20	1719.999999	-0.001	1769.999999	-0.001
30	1719.999999	-0.001	1769.999997	-0.002
40	1719.999996	-0.002	1770.000004	0.002
50	1720.000002	0.001	1770.000003	0.002

Frequency Error vs. Voltage

Voltage (Vdc)	n66			
	Channel Bandwidth 40 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1729.999997	-0.002	1760.000001	0.001
3.28	1730.000002	0.001	1759.999997	-0.002
4.43	1730.000004	0.002	1759.999999	-0.001

Note: The applicant defined the normal working voltage is from 3.28Vdc to 4.43Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n66			
	Channel Bandwidth 40 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1730.000004	0.002	1760.000002	0.001
-20	1730.000004	0.002	1760.000001	0.001
-10	1730.000003	0.002	1759.999997	-0.002
0	1729.999997	-0.002	1760.000001	0.001
10	1729.999996	-0.002	1760.000001	0.001
20	1729.999999	-0.001	1760.000003	0.002
30	1729.999999	-0.001	1760.000003	0.002
40	1729.999996	-0.002	1760.000004	0.002
50	1729.999996	-0.002	1759.999997	-0.002

4.4 Occupied Bandwidth Measurement

4.4.1 Limits of Occupied Bandwidth Measurement

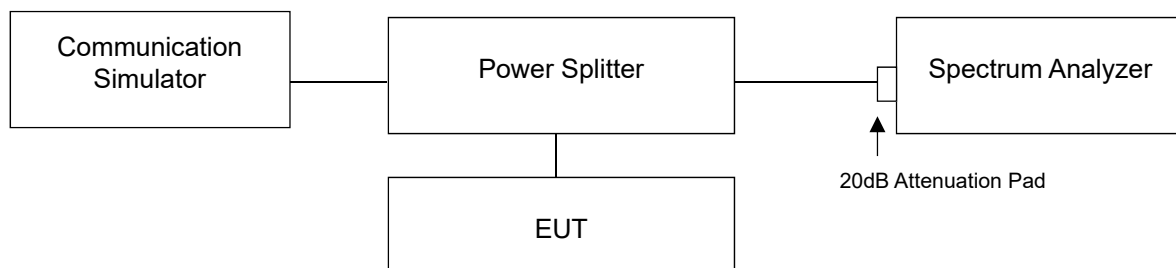
The occupied bandwidth (OBW), that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 % of the total mean power radiated by a given emission.

4.4.2 Test Procedure

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Measurement method, please refer to section 5.4.4 of ANSI C63.26. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

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

4.4.3 Test Setup

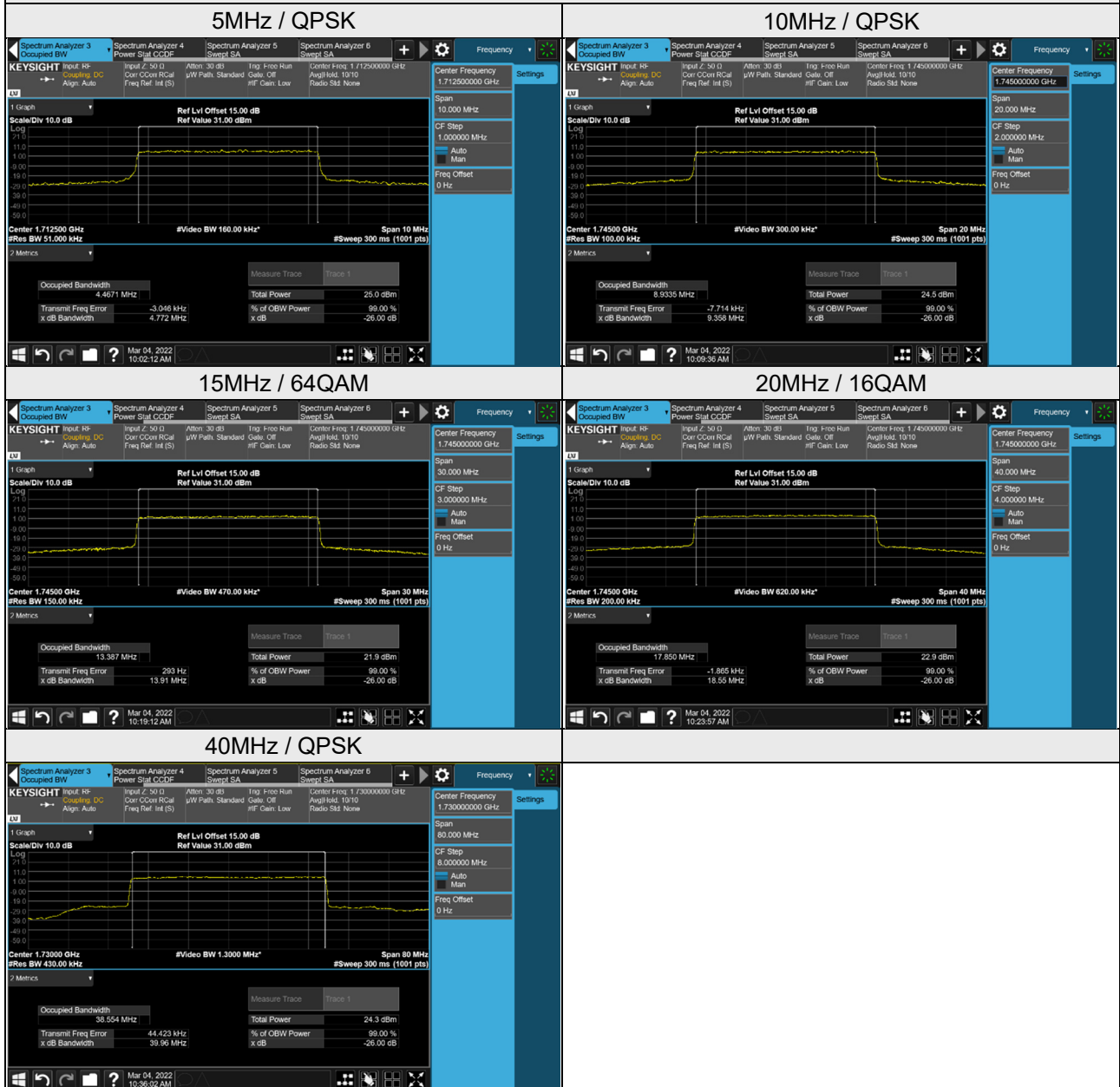


4.4.4 Test Result

Occupied Bandwidth

n66, Channel Bandwidth 5MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
342500	1712.5	4.47	4.47	4.47	4.47	4.46
349000	1745.0	4.46	4.47	4.46	4.47	4.46
355500	1777.5	4.47	4.46	4.46	4.46	4.46
n66, Channel Bandwidth 10MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
343000	1715.0	8.92	8.93	8.92	8.93	8.93
349000	1745.0	8.92	8.93	8.92	8.93	8.93
355000	1775.0	8.91	8.92	8.91	8.92	8.93
n66, Channel Bandwidth 15MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
343500	1717.5	13.37	13.36	13.38	13.38	13.37
349000	1745.0	13.37	13.38	13.38	13.39	13.38
354500	1772.5	13.36	13.36	13.36	13.38	13.37
n66, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
344000	1720.0	17.78	17.81	17.84	17.82	17.83
349000	1745.0	17.80	17.82	17.85	17.83	17.83
354000	1770.0	17.79	17.81	17.84	17.81	17.83
n66, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
346000	1730.0	38.52	38.55	38.54	38.53	38.47
349000	1745.0	38.51	38.55	38.53	38.53	38.48
352000	1760.0	38.47	38.52	38.49	38.49	38.44

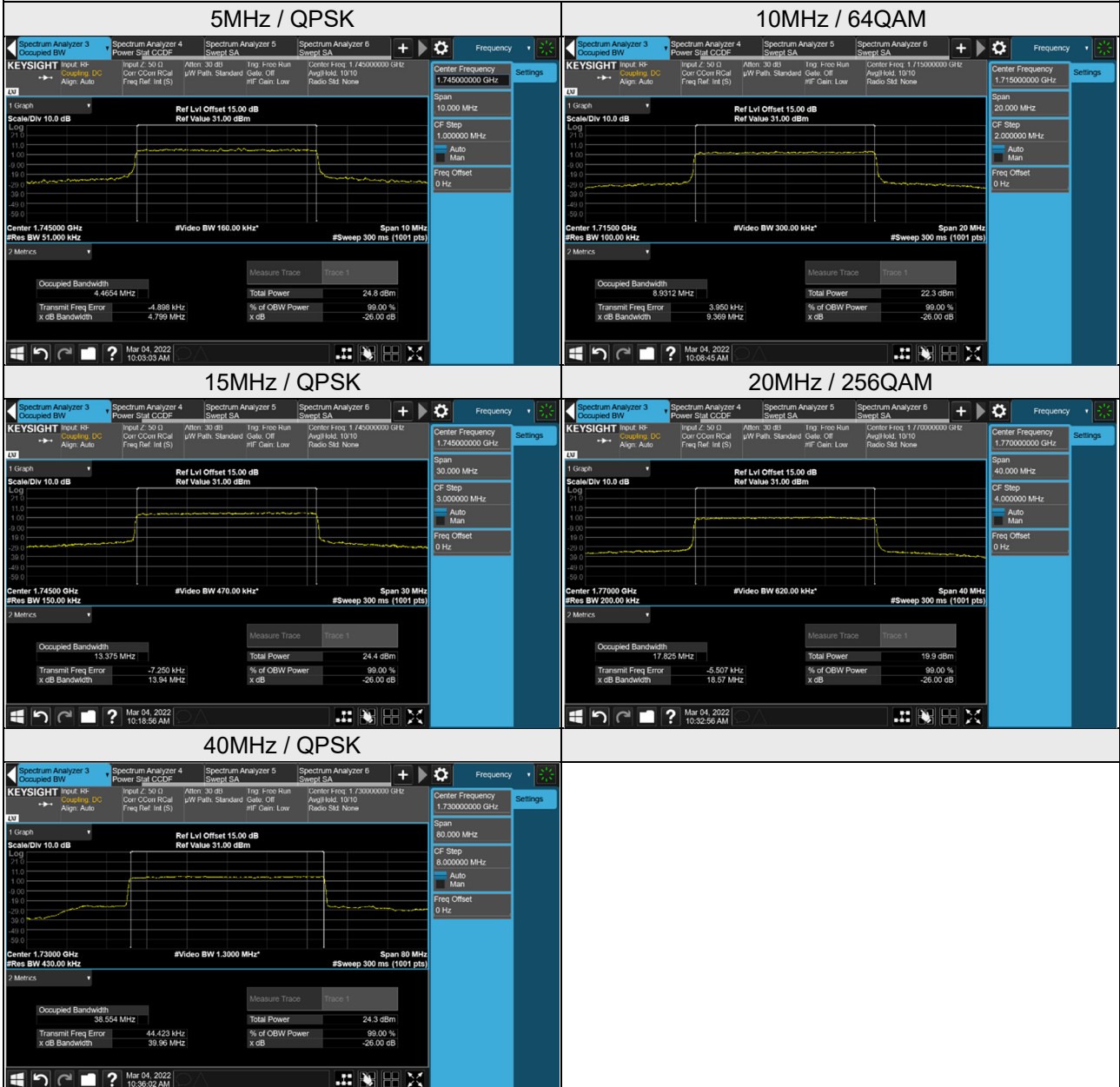
Spectrum Plot of Worst Value



26dB Bandwidth

n66, Channel Bandwidth 5MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
342500	1712.5	4.71	4.77	4.78	4.72	4.72
349000	1745.0	4.72	4.80	4.78	4.71	4.72
355500	1777.5	4.70	4.75	4.76	4.70	4.72
n66, Channel Bandwidth 10MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
343000	1715.0	8.92	9.34	9.35	9.37	9.35
349000	1745.0	9.28	9.36	9.34	9.35	9.33
355000	1775.0	9.29	9.30	9.29	9.34	9.34
n66, Channel Bandwidth 15MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
343500	1717.5	13.91	13.92	13.90	13.89	13.92
349000	1745.0	13.92	13.94	13.91	13.91	13.88
354500	1772.5	13.90	13.87	13.89	13.90	13.90
n66, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
344000	1720.0	18.54	18.52	18.54	18.52	18.56
349000	1745.0	18.54	18.54	18.55	18.55	18.55
354000	1770.0	18.54	18.50	18.53	18.53	18.57
n66, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
346000	1730.0	39.94	39.96	39.94	39.93	39.90
349000	1745.0	39.88	39.90	39.92	39.89	39.87
352000	1760.0	39.91	39.93	39.92	39.91	39.87

Spectrum Plot of Worst Value

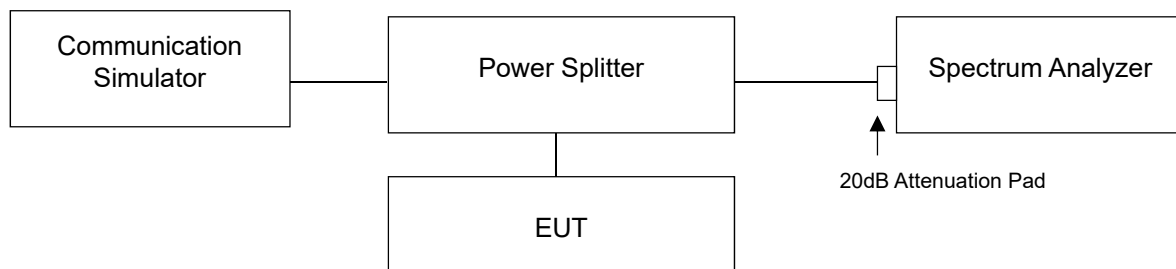


4.5 Band Edge Measurement

4.5.1 Limits of Band Edge Measurement

According to FCC 27.53(h) for operations in the 1695-1710MHz, 1710-1755MHz, 1755-1780 MHz, 1915-1920MHz, 1995-2000 MHz, 2000-2020MHz, 2110-2155MHz, 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.

4.5.2 Test Setup



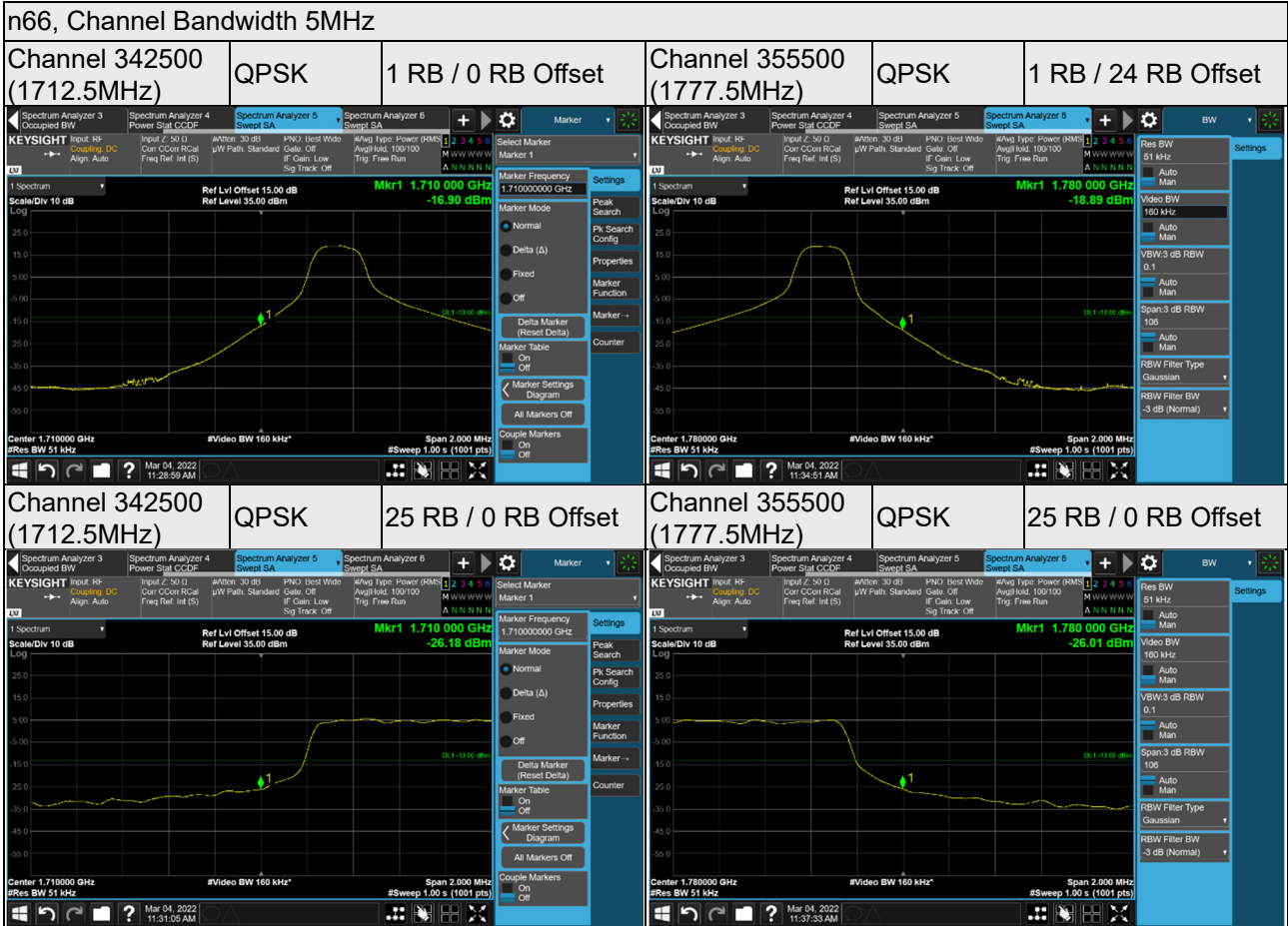
4.5.3 Test Procedures

- a. The testing follows ANSI C63.26 section 5.7
- b. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- c. The band edges of low and high channels for the highest RF powers were measured.
- d. Set RBW \geq 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- e. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
- f. Set spectrum analyzer with RMS detector.
- g. The emission operations in the 40 MHz channel BW mode of 5GNR, the 1% range channel edge using a 300 kHz bandwidth on the spectrum analyzer, the correction factor is further improved by $10 \log(400/300) = 1.25\text{dB}$, the spectrum reading value is added with the correction factor to determine whether the limit is met. Measurement method refers to ANSI C63.26 section 5.7.2.
Offset: $-15\text{dBm} + 1.25\text{dB} = -16.25\text{dBm}$
- h. Checked that all the results comply with the emission limit line.

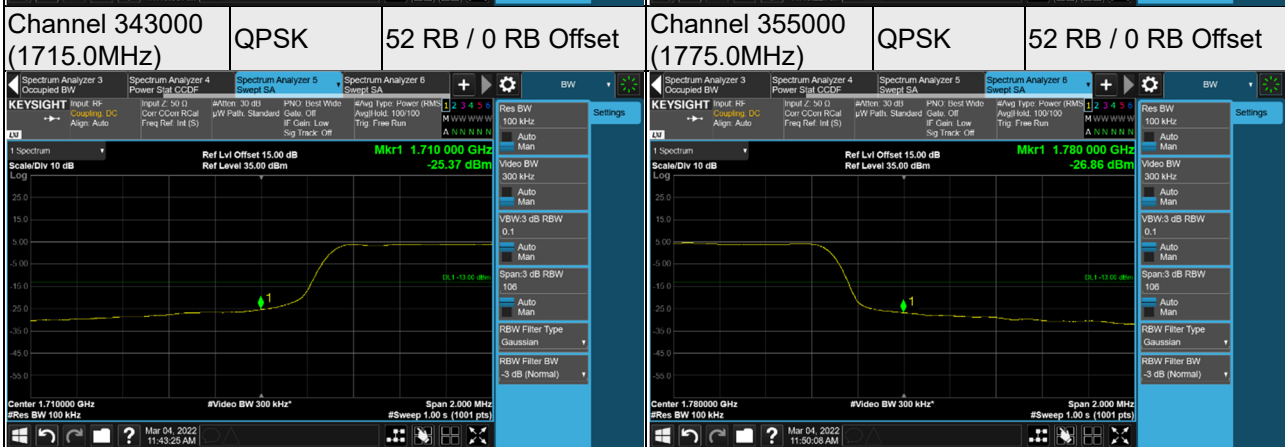
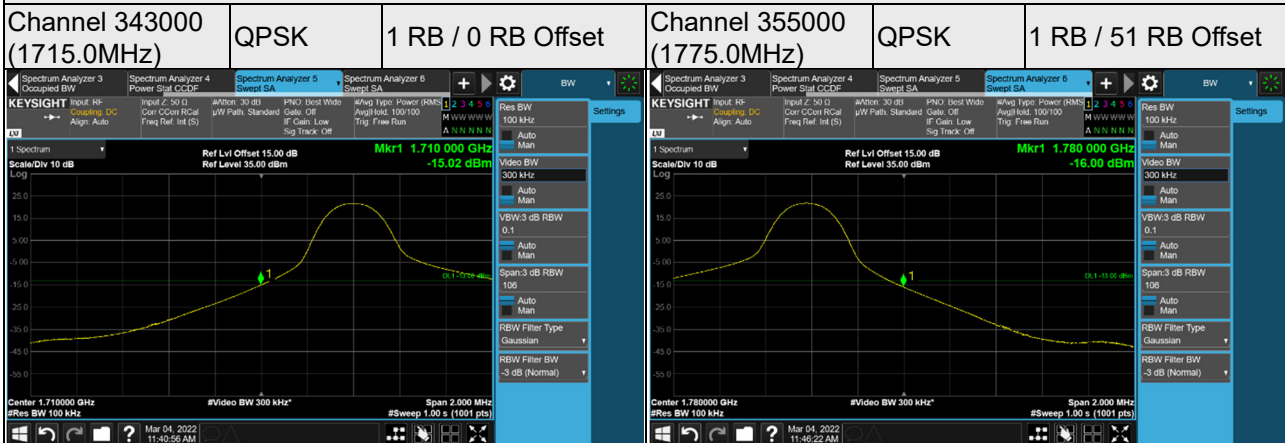


BUREAU VERITAS

4.5.4 Test Results



n66, Channel Bandwidth 10MHz



n66, Channel Bandwidth 15MHz

