



REPORT No.: SZ24090048W09

TEST REPORT

APPLICANT : Rhino Mobility LLC

PRODUCT NAME : Tablet

MODEL NAME : T105

PART NUMBER : T105-001-RHN-0A-001

BRAND NAME : RHINO

FCC ID : 2AUOUT105

STANDARD(S) : 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27
47 CFR Part 96

RECEIPT DATE : 2024-09-09

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Change History		
Version	Date	Reason for change
1.0	2024-11-29	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Rhino Mobility LLC
Applicant Address:	8 The Green, Suite A, Dover, Delaware, 19901, USA
Manufacturer:	Rhino Mobility LLC
Manufacturer Address:	8 The Green, Suite A, Dover, Delaware, 19901, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	Tablet	
Sample No.:	1#	
Hardware Version:	T1007-MB_V1.0	
Software Version:	T105(001)_20241114	
Modulation Type:	QPSK, 16QAM, 64QAM, 256QAM	
Operation Band:	Uplink: 2A-4A, 2A-5A, 2A-12A, 2A-13A, 2A-66A, 4A-5A, 4A-12A, 4A-13A, 5A-66A, 12A-66A, 13A-66A, 2C, 5B, 41C, 48C, 66B, 66C	
Frequency Range:	LTE Band 2	Tx: 1850MHz–1910MHz
		Rx: 1930MHz–1990MHz
	LTE Band 4	Tx: 1710MHz–1755MHz
		Rx: 2110MHz–2155MHz
	LTE Band 5	Tx: 824MHz–849MHz
		Rx: 869MHz–894MHz
	LTE Band 12	Tx: 699MHz–716MHz
		Rx: 729MHz–746MHz
	LTE Band 13	Tx: 777MHz–787MHz
		Rx: 746MHz–756MHz
Intra-band Operation Frequency Range:	LTE Band 41	Tx: 2496MHz–2690MHz Rx: 2496MHz–2690MHz
	LTE Band 66	Tx: 1710MHz–1780MHz Rx: 2110MHz–2200MHz
Intra-band Operation Frequency Range:	2C	1862.5MHz-1897.5MHz
	5B	828MHz-845MHz



	41C	2508.5MHz-2677.5MHz
	48C	3562.5MHz-3687.5MHz
	66B	1715MHz-1775MHz
	66C	1722.5MHz-1767.5MHz
Channel Bandwidth:	Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz
	Band 13	5 MHz, 10MHz
	Band 41	5 MHz, 10MHz, 15MHz, 20MHz
	Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	CA_2C	5MHz+20MHz, 20MHz+5MHz, 10MHz+15MHz, 15MHz+10MHz, 10MHz+20MHz, 20MHz+10MHz 15MHz+15MHz, 15MHz+20MHz, 20MHz+15MHz, 20MHz+20MHz
	CA_5B	3MHz+5MHz, 5MHz+3MHz, 5MHz+10MHz, 10MHz+5MHz, 10MHz+10MHz
	CA_41C	5MHz+20MHz, 20MHz+5MHz, 10MHz+15MHz, 15MHz+10MHz, 10MHz+20MHz, 20MHz+10MHz 15MHz+15MHz, 15MHz+20MHz, 20MHz+15MHz, 20 MHz+20MHz
Antenna Type:	CA_48C	5MHz+20MHz, 20MHz+5MHz, 10MHz+20MHz, 20MHz+10MHz, 15MHz+20MHz, 20MHz+15MHz, 20MHz+20MHz
	CA_66B	5MHz+5MHz, 5MHz+10MHz, 10MHz+5MHz, 5MHz+15MHz, 15MHz+5MHz, 10MHz+10MHz
	CA_66C	5MHz+20MHz, 20MHz+5MHz, 10MHz+15MHz, 15MHz+10MHz, 10MHz+20MHz, 20MHz+10MHz 15MHz+15MHz, 15MHz+20MHz, 20MHz+15MHz, 20MHz+20MHz
	PIFA Antenna	
Antenna Gain:	Band 2	ANT3: -0.47dBi, ANT4: 1.64dBi
	Band 4	ANT3: -1.25dBi, ANT4: 1.13dBi
	Band 5	-1.38dBi
	Band 12	-2.21dBi
	Band 13	-2.54dBi
	Band 41	ANT3: 0.22dBi, ANT5: 1.44dBi
	Band 48	-1.52dBi



	Band 66	ANT3: -1.22dBi, ANT4: 1.41dBi,
Accessory Information:	Battery	
	Brand Name:	N/A
	Model No.:	BPT105
	Serial No.:	N/A
	Capacity:	7000mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.40V
	Manufacturer:	Phenix New Energy (Huizhou) Co., Ltd.
	AC Adapter	
	Brand Name:	RHINO
	Model No.:	PS20C120K1670UC
	Serial No.:	N/A
	Rated Output:	5V $\Rightarrow$ 3A or 9.0V $\Rightarrow$ 2.22A or 12V $\Rightarrow$ 1.67A
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.6A
	Manufacturer:	Shenzhen Flypower Technology Co., Ltd.

Note1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.3. Maximum E.R.P./E.I.R.P. and Emission Designator

Channel bandwidth	Maximum ERP/EIRP (W)			
CA_2C	QPSK	16QAM	64QAM	256QAM
20+20	0.295	/	/	/
CA_5B	QPSK	16QAM	64QAM	256QAM
10+10	0.084	/	/	/
CA_41C_PC3	QPSK	16QAM	64QAM	256QAM
20+20	0.290	/	/	/
CA_41C_PC2	QPSK	16QAM	64QAM	256QAM
20+20	0.455	/	/	/
CA_48C	QPSK	16QAM	64QAM	256QAM
20+20	0.147	/	/	/
CA_66B	QPSK	16QAM	64QAM	256QAM
15+5	0.286	/	/	/
CA_66C	QPSK	16QAM	64QAM	256QAM
20+20	0.284	/	/	/
CA_2A-4A	QPSK	16QAM	64QAM	256QAM
20+20	0.298	/	/	/
CA_2A-5A	QPSK	16QAM	64QAM	256QAM
20+10	0.262	/	/	/
CA_2A-12A	QPSK	16QAM	64QAM	256QAM
20+5	0.258	/	/	/
CA_2A-13A	QPSK	16QAM	64QAM	256QAM
20+10	0.253	/	/	/
CA_2A-66A	QPSK	16QAM	64QAM	256QAM
20+20	0.294	/	/	/
CA_4A-5A	QPSK	16QAM	64QAM	256QAM
20+10	0.237	/	/	/
CA_4A-12A	QPSK	16QAM	64QAM	256QAM
20+5	0.235	/	/	/
CA_4A-13A	QPSK	16QAM	64QAM	256QAM
20+10	0.230	/	/	/
CA_5A-66A	QPSK	16QAM	64QAM	256QAM
10+20	0.292	/	/	/
CA_12A-66A	QPSK	16QAM	64QAM	256QAM
5+20	0.292	/	/	/



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CA_13A-66A	QPSK	16QAM	64QAM	256QAM
10+20	0.302	/	/	/

Channel bandwidth	Emission Designator (99%OBW)		
CA_2C	QPSK	16QAM	64QAM
5+20	22M7G7D	22M8W7D	22M8W7D
10+15	23M1G7D	23M0W7D	23M1W7D
10+20	27M7G7D	27M7W7D	27M7W7D
15+10	23M1G7D	23M2W7D	23M1W7D
15+15	28M3G7D	28M3W7D	28M3W7D
15+20	32M6G7D	32M6W7D	32M7W7D
20+5	22M8G7D	22M9W7D	22M8W7D
20+10	27M7G7D	27M7W7D	27M7W7D
20+15	32M6G7D	32M6W7D	32M6W7D
20+20	37M5G7D	37M5W7D	37M5W7D
CA_5B	QPSK	16QAM	64QAM
3+5	7M54G7D	7M56W7D	7M56W7D
5+3	7M53G7D	7M56W7D	7M58W7D
5+10	13M9G7D	13M9W7D	13M9W7D
10+5	13M9G7D	13M9W7D	13M9W7D
10+10	18M9G7D	18M9W7D	18M9W7D
LTE 41C	QPSK	16QAM	64QAM
5+20	22M9G7D	22M9W7D	22M8W7D
10+15	23M1G7D	23M1W7D	23M1W7D
10+20	27M7G7D	27M7W7D	27M7W7D
15+10	23M1G7D	23M1W7D	23M1W7D
15+15	28M3G7D	28M3W7D	28M3W7D
15+20	32M6G7D	32M6W7D	32M7W7D
20+5	22M9G7D	22M8W7D	22M9W7D
20+10	27M7G7D	27M8W7D	27M8W7D
20+15	32M7G7D	32M7W7D	32M7W7D
20+20	37M6G7D	37M5W7D	37M6W7D
LTE 48C	QPSK	16QAM	64QAM
5+20	22M8G7D	22M8W7D	22M8W7D
10+20	27M7G7D	27M7W7D	27M7W7D
15+20	32M6G7D	32M7W7D	32M6W7D
20+5	22M9G7D	22M9W7D	22M8W7D
20+10	27M7G7D	27M7W7D	27M7W7D



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20+15	32M6G7D	32M7W7D	32M5W7D
20+20	37M5G7D	37M5W7D	37M5W7D
LTE 66C	QPSK	16QAM	64QAM
5+20	22M8G7D	22M8W7D	22M8W7D
10+15	23M1G7D	23M1W7D	23M2W7D
10+20	27M7G7D	27M8W7D	27M8W7D
15+10	23M1G7D	23M1W7D	23M1W7D
15+15	28M3G7D	28M3W7D	28M4W7D
15+20	32M6G7D	32M6W7D	32M6W7D
20+5	22M8G7D	22M9W7D	22M8W7D
20+10	27M8G7D	27M7W7D	27M7W7D
20+15	32M6G7D	32M6W7D	32M6W7D
20+20	37M5G7D	37M6W7D	37M5W7D
LTE 66B	QPSK	16QAM	64QAM
5+5	9M33G7D	9M28W7D	9M29W7D
5+10	13M9G7D	13M9W7D	13M9W7D
5+15	18M3G7D	18M3W7D	18M3W7D
10+5	13M9G7D	14M0W7D	13M9W7D
10+10	18M9G7D	18M9W7D	18M9W7D
15+5	18M3G7D	18M3W7D	18M3W7D



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24, Part 27 and Part 96 for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
6	47 CFR Part 96	CITIZENS BROADBAND RADIO SERVICE

B2			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	$EIRP \leq 2\text{ W}$	PASS
Peak-Average Ratio	§24.232(d)	Limit $\leq 13\text{ dB}$	PASS
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §24.238(a)(b)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)(b)	$\leq -13\text{ dBm/1MHz}$	PASS
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	$\leq -13\text{ dBm/1MHz}$	PASS
Frequency Stability	§2.1055, §24.235	No limit	N/A



B4 & B66			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤ 1 W	PASS
Peak-Average Ratio	§27.50(d) (5)	Limit ≤ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(h)(1) §27.53(h)(3)(i)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)(1)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(h)(1)	≤ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

B5			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7 W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §22.917(a)(b)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §22.355	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §22.355	$\leq \pm 2.5$ ppm	PASS



B41			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤2W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(m)(4)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)(4)	≤ -25 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(m)(4)	≤ -25 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

B12			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(c)(10)	ERP ≤3W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(g)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A



B13			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(b)(10)	ERP ≤3W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(c)(2)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(c)(2)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(c)(2)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

B48			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §96.41(b)	Refer to section 2.1	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §96.41(e)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §96.41(e)	≤ -40 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §96.41(e)	≤ -40 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A



Test detailed items/section required by FCC rules and results are as below:

Test Item	Test Engineer	Result	Method Determination /Remark
Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Yu Xiaoming Gan Jing	PASS	No deviation
Occupied Bandwidth	Gan Jing	PASS	No deviation
Frequency Stability	Gan Jing	PASS ^{5}	No deviation
Peak to Average Ratio	Gan Jing	PASS	No deviation
Conducted Spurious Emissions	Gan Jing	PASS	No deviation
Band Edge	Gan Jing	PASS	No deviation
Radiated Spurious Emissions	Yang Lian	PASS	No deviation
Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016. Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipment. The ref offset 24.5dB contains two parts that cable loss 14.5dB and Attenuator 10dB. Note 3: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table. Note 4: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals. Note 5: This item has been tested in the single carrier frequency band, and the test data can be found in the report for the single carrier frequency band.			



1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60



2. Summary Test Results and Description

2.1. Transmitter Conducted Output Power

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single side band, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 24.232 (c) for LTE Band 2, Mobile and portable stations are limited to 2 watts E.I.R.P. and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50 (d)(4) for LTE Band 4/66, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

According to FCC section 22.913 (a)(2) for LTE Band 5, the E.R.P. of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (h)(2) for LTE Band 41, Mobile and other user stations. Mobile stations are limited to 2 watts E.I.R.P. All user stations are limited to 2 watts transmitter output power.

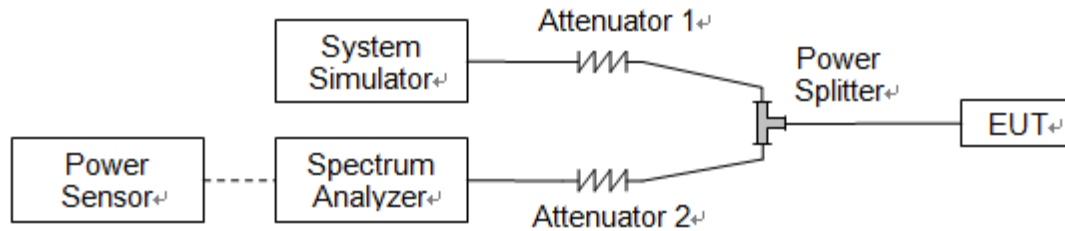
According to FCC section 27.50 (b)(10) for LTE Band 13, Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts E.R.P.

According to FCC section 27.50 (c)(10) for LTE Band 12, Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts E.R.P.

According to FCC section 96.41(b) for LTE Band 48, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

Device	Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a
Category A CBSD	30	20
Category B CBSD ¹	47	37

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test Procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

$E.I.R.P. (dBm) = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$E.R.P. (dBm) = E.I.R.P. (dBm) - 2.15$

2.1.4. Result

**Conducted Output Power**

CA_2C								
Combination:20MHz+20MHz(100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB Offset	RB Size	RB Offset		
18700	18898	QPSK	1	0	0	0	1	23.06
18801	18999	QPSK	1	0	0	0	1	22.91
18902	19100	QPSK	1	0	0	0	1	22.87
18700	18898	16QAM	1	0	0	0	1	22.10
18801	18999	16QAM	1	0	0	0	1	21.96
18902	19100	16QAM	1	0	0	0	1	21.74
18700	18898	64QAM	1	0	0	0	1	22.06
18801	18999	64QAM	1	0	0	0	1	21.90
18902	19100	64QAM	1	0	0	0	1	21.75
18700	18898	QPSK	50	0	0	0	1	22.06
18801	18999	QPSK	50	0	0	0	1	21.76
18902	19100	QPSK	50	0	0	0	1	21.77

CA_5B								
Combination:10MHz+10MHz(50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB Offset	RB Size	RB Offset		
20450	20549	QPSK	1	0	0	0	1	22.78
20476	20575	QPSK	1	0	0	0	1	22.66
20501	20600	QPSK	1	0	0	0	1	22.66
20450	20549	16QAM	1	0	0	0	1	21.90
20476	20575	16QAM	1	0	0	0	1	21.85
20501	20600	16QAM	1	0	0	0	1	21.80
20450	20549	64QAM	1	0	0	0	1	22.10
20476	20575	64QAM	1	0	0	0	1	22.08
20501	20600	64QAM	1	0	0	0	1	21.96
20450	20549	QPSK	25	0	0	0	1	20.82
20476	20575	QPSK	25	0	0	0	1	20.77
20501	20600	QPSK	25	0	0	0	1	20.83



CA_41C (PC3)								
Combination:20MHz+20MHz(100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
			RB Size	RB Offset	RB Size	RB Offset		
39750	39948	QPSK	1	0	0	0	1	22.77
40521	40719	QPSK	1	0	0	0	1	23.19
41292	41490	QPSK	1	0	0	0	1	22.90
39750	39948	16QAM	1	0	0	0	1	21.91
40521	40719	16QAM	1	0	0	0	1	22.11
41292	41490	16QAM	1	0	0	0	1	21.98
39750	39948	64QAM	1	0	0	0	1	20.85
40521	40719	64QAM	1	0	0	0	1	21.13
41292	41490	64QAM	1	0	0	0	1	20.92
39750	39948	QPSK	50	0	0	0	1	21.90
40521	40719	QPSK	50	0	0	0	1	22.25
41292	41490	QPSK	50	0	0	0	1	21.95

CA_41C(PC2)								
Combination:20MHz+20MHz(100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
			RB Size	RB Offset	RB Size	RB Offset		
39750	39948	QPSK	1	0	0	0	1	24.69
40521	40719	QPSK	1	0	0	0	1	25.14
41292	41490	QPSK	1	0	0	0	1	24.94
39750	39948	16QAM	1	0	0	0	1	23.88
40521	40719	16QAM	1	0	0	0	1	24.06
41292	41490	16QAM	1	0	0	0	1	23.80
39750	39948	64QAM	1	0	0	0	1	22.86
40521	40719	64QAM	1	0	0	0	1	23.12
41292	41490	64QAM	1	0	0	0	1	22.85
39750	39948	QPSK	50	0	0	0	1	23.74
40521	40719	QPSK	50	0	0	0	1	24.12
41292	41490	QPSK	50	0	0	0	1	23.78



CA_48C Ant 6								
Combination:20MHz+20MHz(100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
			RB Size	RB Offset	RB Size	RB Offset		
55340	55538	QPSK	1	0	0	0	1	23.20
55891	56089	QPSK	1	0	0	0	1	23.17
56442	56640	QPSK	1	0	0	0	1	22.94
55340	55538	16QAM	1	0	0	0	1	22.29
55891	56089	16QAM	1	0	0	0	1	22.02
56442	56640	16QAM	1	0	0	0	1	21.92
55340	55538	64QAM	1	0	0	0	1	21.25
55891	56089	64QAM	1	0	0	0	1	21.27
56442	56640	64QAM	1	0	0	0	1	21.06
55340	55538	QPSK	50	0	0	0	1	22.25
55891	56089	QPSK	50	0	0	0	1	22.05
56442	56640	QPSK	50	0	0	0	1	21.95

CA_66B Ant 4								
Combination:15MHz+5MHz(75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
			RB Size	RB Offset	RB Size	RB Offset		
132047	132140	QPSK	1	0	0	0	1	23.04
132398	132491	QPSK	1	0	0	0	1	22.82
132549	132642	QPSK	1	0	0	0	1	23.16
132047	132140	16QAM	1	0	0	0	1	21.90
132398	132491	16QAM	1	0	0	0	1	21.95
132549	132642	16QAM	1	0	0	0	1	22.27
132047	132140	64QAM	1	0	0	0	1	20.88
132398	132491	64QAM	1	0	0	0	1	21.20
132549	132642	64QAM	1	0	0	0	1	21.22
132047	132140	QPSK	36	0	0	0	1	20.95
132398	132491	QPSK	36	0	0	0	1	21.04
132549	132642	QPSK	36	0	0	0	1	21.20



CA_66C Ant 4								
Combination:20MHz+20MHz(100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
			RB Size	RB Offset	RB Size	RB Offset		
132072	132270	QPSK	1	0	0	0	1	22.88
132323	132521	QPSK	1	0	0	0	1	22.96
132374	132572	QPSK	1	0	0	0	1	23.12
132072	132270	16QAM	1	0	0	0	1	21.81
132323	132521	16QAM	1	0	0	0	1	21.95
132374	132572	16QAM	1	0	0	0	1	22.07
132072	132270	64QAM	1	0	0	0	1	21.86
132323	132521	64QAM	1	0	0	0	1	21.98
132374	132572	64QAM	1	0	0	0	1	22.05
132072	132270	QPSK	50	0	0	0	1	21.81
132323	132521	QPSK	50	0	0	0	1	21.95
132374	132572	QPSK	50	0	0	0	1	22.04



Inter-band CA								
CA Configuration	PCC				SCC			Measured Power(dBm)
	Band	BW (MHz)	UL Channel	UL Mode (Modulation /RB/Offset)	Band	BW (MHz)	UL Channel	
CA_2A-4A	2	20	18700	QPSK/1#0	4	20	20300	23.10
CA_2A-5A	2	20	18700	QPSK/1#0	5	10	20600	22.55
CA_2A-12A	2	20	18700	QPSK/1#0	12	5	23155	22.48
CA_2A-13A	2	20	18700	QPSK/1#0	13	10	23230	22.39
CA_2A-66A	2	20	18700	QPSK/1#0	66	20	132572	23.04
CA_4A-5A	4	20	20050	QPSK/1#0	5	10	20600	22.61
CA_4A-12A	4	20	20050	QPSK/1#0	12	5	23155	22.58
CA_4A-13A	4	20	20050	QPSK/1#0	13	10	23230	22.48
CA_5A-66A	5	10	20450	QPSK/1#0	66	20	132572	23.25
CA_12A-66A	12	5	23035	QPSK/1#0	66	20	132572	23.25
CA_13A-66A	13	10	23230	QPSK/1#0	66	20	132572	23.39

**Effective Radiated Power and Effective Isotropic Radiated Power**

Note: Consider and evaluate all antennas separately by fully testing each band; This test report only records the worst-case scenario.

CA_2C									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	EIRP (dBm)	EIRP (W)
			RB Size	RB Offset	RB Size	RB Offset			
18700	18898	QPSK	1	0	0	0	1	24.70	0.295
18801	18999	QPSK	1	0	0	0	1	24.55	0.285
18902	19100	QPSK	1	0	0	0	1	24.51	0.282
18700	18898	16QAM	1	0	0	0	1	23.74	0.237
18801	18999	16QAM	1	0	0	0	1	23.60	0.229
18902	19100	16QAM	1	0	0	0	1	23.38	0.218
18700	18898	64QAM	1	0	0	0	1	23.70	0.234
18801	18999	64QAM	1	0	0	0	1	23.54	0.226
18902	19100	64QAM	1	0	0	0	1	23.39	0.218
18700	18898	QPSK	50	0	0	0	1	23.70	0.234
18801	18999	QPSK	50	0	0	0	1	23.40	0.219
18902	19100	QPSK	50	0	0	0	1	23.41	0.219



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CA_5B									
Combination:10MHz+10MHz(50RB+50RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	EIRP (dBm)	EIRP (W)
			RB Size	RB Offset	RB Size	RB Offset			
20450	20549	QPSK	1	0	0	0	1	19.25	0.084
20476	20575	QPSK	1	0	0	0	1	19.13	0.082
20501	20600	QPSK	1	0	0	0	1	19.13	0.082
20450	20549	16QAM	1	0	0	0	1	18.37	0.069
20476	20575	16QAM	1	0	0	0	1	18.32	0.068
20501	20600	16QAM	1	0	0	0	1	18.27	0.067
20450	20549	64QAM	1	0	0	0	1	18.57	0.072
20476	20575	64QAM	1	0	0	0	1	18.55	0.072
20501	20600	64QAM	1	0	0	0	1	18.43	0.070
20450	20549	QPSK	50	0	0	0	1	17.29	0.054
20476	20575	QPSK	50	0	0	0	1	17.24	0.053
20501	20600	QPSK	50	0	0	0	1	17.30	0.054

CA_41C (PC3)									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	EIRP (dBm)	EIRP (W)
			RB Size	RB Offset	RB Size	RB Offset			
39750	39948	QPSK	1	0	0	0	1	24.21	0.264
40521	40719	QPSK	1	0	0	0	1	24.63	0.290
41292	41490	QPSK	1	0	0	0	1	24.34	0.272
39750	39948	16QAM	1	0	0	0	1	23.35	0.216
40521	40719	16QAM	1	0	0	0	1	23.55	0.226
41292	41490	16QAM	1	0	0	0	1	23.42	0.220
39750	39948	64QAM	1	0	0	0	1	22.29	0.169
40521	40719	64QAM	1	0	0	0	1	22.57	0.181
41292	41490	64QAM	1	0	0	0	1	22.36	0.172
39750	39948	QPSK	50	0	0	0	1	23.34	0.216
40521	40719	QPSK	50	0	0	0	1	23.69	0.234
41292	41490	QPSK	50	0	0	0	1	23.39	0.218



CA_41C (PC2)									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	EIRP (dBm)	EIRP (W)
			RB Size	RB Offset	RB Size	RB Offset			
39750	39948	QPSK	1	0	0	0	1	26.13	0.410
40521	40719	QPSK	1	0	0	0	1	26.58	0.455
41292	41490	QPSK	1	0	0	0	1	26.38	0.435
39750	39948	16QAM	1	0	0	0	1	25.32	0.340
40521	40719	16QA	1	0	0	0	1	25.50	0.355
41292	41490	16QAM	1	0	0	0	1	25.24	0.334
39750	39948	64QAM	1	0	0	0	1	24.30	0.269
40521	40719	64QAM	1	0	0	0	1	24.56	0.286
41292	41490	64QAM	1	0	0	0	1	24.29	0.269
39750	39948	QPSK	50	0	0	0	1	25.18	0.330
40521	40719	QPSK	50	0	0	0	1	25.56	0.360
41292	41490	QPSK	50	0	0	0	1	25.22	0.333

CA_48C									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	EIRP (dBm)	EIRP (W)
			RB Size	RB Offset	RB Size	RB Offset			
55340	55538	QPSK	1	0	0	0	1	21.68	0.147
55891	56089	QPSK	1	0	0	0	1	21.65	0.146
56442	56640	QPSK	1	0	0	0	1	21.42	0.139
55340	55538	16QAM	1	0	0	0	1	20.77	0.119
55891	56089	16QAM	1	0	0	0	1	20.50	0.112
56442	56640	16QAM	1	0	0	0	1	20.40	0.110
55340	55538	64QAM	1	0	0	0	1	19.73	0.094
55891	56089	64QAM	1	0	0	0	1	19.75	0.094
56442	56640	64QAM	1	0	0	0	1	19.54	0.090
55340	55538	QPSK	50	0	0	0	1	20.73	0.118
55891	56089	QPSK	50	0	0	0	1	20.53	0.113
56442	56640	QPSK	50	0	0	0	1	20.43	0.110



CA_66B Ant 4									
Combination: 15MHz+5MHz(75RB+25RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	EIRP (dBm)	EIRP (W)
			RB Size	RB Offset	RB Size	RB Offset			
132047	132140	QPSK	1	0	0	0	1	24.45	0.279
132398	132491	QPSK	1	0	0	0	1	24.23	0.265
132549	132642	QPSK	1	0	0	0	1	24.57	0.286
132047	132140	16QAM	1	0	0	0	1	23.31	0.214
132398	132491	16QAM	1	0	0	0	1	23.36	0.217
132549	132642	16QAM	1	0	0	0	1	23.68	0.233
132047	132140	64QAM	1	0	0	0	1	22.29	0.169
132398	132491	64QAM	1	0	0	0	1	22.61	0.182
132549	132642	64QAM	1	0	0	0	1	22.63	0.183
132047	132140	QPSK	36	0	0	0	1	22.36	0.172
132398	132491	QPSK	36	0	0	0	1	22.45	0.176
132549	132642	QPSK	36	0	0	0	1	22.61	0.182

CA_66C Ant 4									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	EIRP (dBm)	EIRP (W)
			RB Size	RB Offset	RB Size	RB Offset			
132072	132270	QPSK	1	0	0	0	1	24.29	0.269
132323	132521	QPSK	1	0	0	0	1	24.37	0.274
132374	132572	QPSK	1	0	0	0	1	24.53	0.284
132072	132270	16QAM	1	0	0	0	1	23.22	0.210
132323	132521	16QAM	1	0	0	0	1	23.36	0.217
132374	132572	16QAM	1	0	0	0	1	23.48	0.223
132072	132270	64QAM	1	0	0	0	1	23.27	0.212
132323	132521	64QAM	1	0	0	0	1	23.39	0.218
132374	132572	64QAM	1	0	0	0	1	23.46	0.222
132072	132270	QPSK	50	0	0	0	1	23.22	0.210
132323	132521	QPSK	50	0	0	0	1	23.36	0.217
132374	132572	QPSK	50	0	0	0	1	23.45	0.221



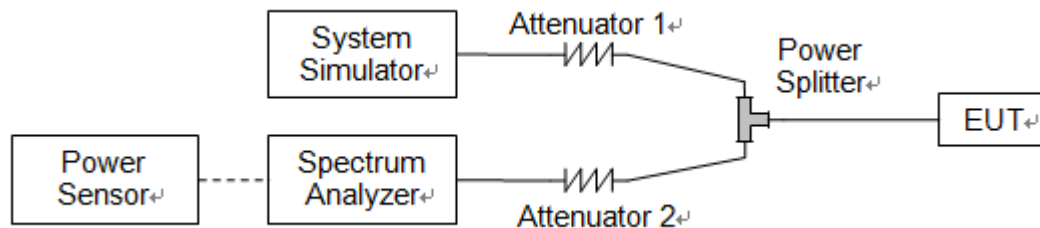
Inter-band CA										
CA Configuration	PCC				SCC			Measured Power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
	Band	BW (MHz)	UL Channel	UL Mode (Modulation /RB/Offset)	Band	BW (MHz)	UL Channel			
CA_2A-4A	2	20	18700	QPSK/1#0	4	20	20300	23.10	24.74	0.298
CA_2A-5A	2	20	18700	QPSK/1#0	5	10	20600	22.55	24.19	0.262
CA_2A-12A	2	20	18700	QPSK/1#0	12	5	23155	22.48	24.12	0.258
CA_2A-13A	2	20	18700	QPSK/1#0	13	10	23230	22.39	24.03	0.253
CA_2A-66A	2	20	18700	QPSK/1#0	66	20	132572	23.04	24.68	0.294
CA_4A-5A	4	20	20050	QPSK/1#0	5	10	20600	22.61	23.74	0.237
CA_4A-12A	4	20	20050	QPSK/1#0	12	5	23155	22.58	23.71	0.235
CA_4A-13A	4	20	20050	QPSK/1#0	13	10	23230	22.48	23.61	0.230
CA_5A-66A	5	10	20450	QPSK/1#0	66	20	132572	23.25	24.66	0.292
CA_12A-66A	12	5	23035	QPSK/1#0	66	20	132572	23.25	24.66	0.292
CA_13A-66A	13	10	23230	QPSK/1#0	66	20	132572	23.39	24.8	0.302

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth 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 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test Procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

2.2.4. Test Result



LTE Band	BW(MHz)	Channel Level	PCC CH	SCC CH	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
2C	5+20	Low	18633	18750	QPSK	22.745	23.783	PASS
2C	5+20	Low	18633	18750	16QAM	22.720	23.718	PASS
2C	5+20	Low	18633	18750	64QAM	22.771	23.678	PASS
2C	5+20	Mid	18808	18925	QPSK	22.692	23.733	PASS
2C	5+20	Mid	18808	18925	16QAM	22.756	23.685	PASS
2C	5+20	Mid	18808	18925	64QAM	22.721	23.715	PASS
2C	5+20	High	18983	19100	QPSK	22.729	23.781	PASS
2C	5+20	High	18983	19100	16QAM	22.664	23.771	PASS
2C	5+20	High	18983	19100	64QAM	22.644	23.677	PASS
2C	10+15	Low	18653	18773	QPSK	23.055	24.258	PASS
2C	10+15	Low	18653	18773	16QAM	22.973	24.107	PASS
2C	10+15	Low	18653	18773	64QAM	23.023	24.149	PASS
2C	10+20	Low	18655	18799	QPSK	27.608	28.820	PASS
2C	10+20	Low	18655	18799	16QAM	27.514	28.877	PASS
2C	10+20	Low	18655	18799	64QAM	27.599	28.846	PASS
2C	10+15	Mid	18829	18949	QPSK	23.050	24.279	PASS
2C	10+15	Mid	18829	18949	16QAM	23.016	24.209	PASS
2C	10+15	Mid	18829	18949	64QAM	23.085	24.095	PASS
2C	10+20	Mid	18806	18950	QPSK	27.654	28.903	PASS
2C	10+20	Mid	18806	18950	16QAM	27.681	28.787	PASS
2C	10+20	Mid	18806	18950	64QAM	27.655	28.966	PASS
2C	10+15	High	19005	19125	QPSK	22.966	24.329	PASS
2C	10+15	High	19005	19125	16QAM	23.006	24.261	PASS
2C	10+15	High	19005	19125	64QAM	23.020	24.133	PASS
2C	10+20	High	18956	19100	QPSK	27.579	29.008	PASS
2C	10+20	High	18956	19100	16QAM	27.581	28.946	PASS
2C	10+20	High	18956	19100	64QAM	27.628	28.905	PASS
2C	15+10	Low	18675	18795	QPSK	23.063	24.295	PASS
2C	15+10	Low	18675	18795	16QAM	23.067	24.288	PASS
2C	15+10	Low	18675	18795	64QAM	23.087	24.350	PASS
2C	15+15	Low	18675	18825	QPSK	28.235	29.671	PASS
2C	15+15	Low	18675	18825	16QAM	28.267	29.645	PASS
2C	15+15	Low	18675	18825	64QAM	28.282	29.595	PASS
2C	15+20	Low	18678	18849	QPSK	32.531	34.277	PASS
2C	15+20	Low	18678	18849	16QAM	32.531	34.048	PASS



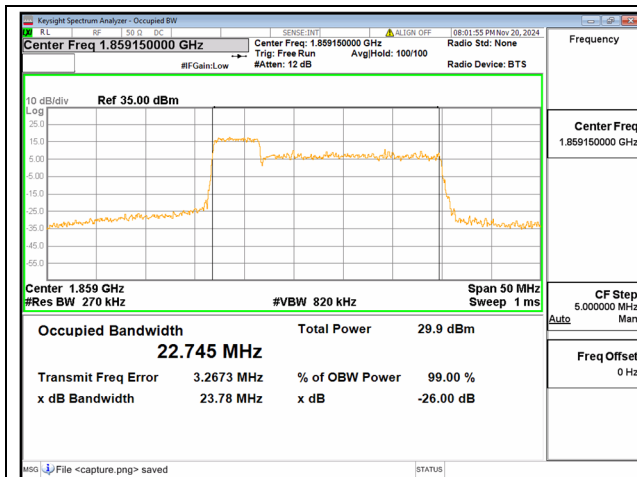
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2C	15+20	Low	18678	18849	64QAM	32.555	34.092	PASS
2C	15+10	Mid	18851	18971	QPSK	23.045	24.335	PASS
2C	15+10	Mid	18851	18971	16QAM	23.100	24.336	PASS
2C	15+10	Mid	18851	18971	64QAM	23.083	24.348	PASS
2C	15+15	Mid	18825	18975	QPSK	28.254	29.588	PASS
2C	15+15	Mid	18825	18975	16QAM	28.294	29.675	PASS
2C	15+15	Mid	18825	18975	64QAM	28.256	29.704	PASS
2C	15+20	Mid	18803	18974	QPSK	32.587	34.105	PASS
2C	15+20	Mid	18803	18974	16QAM	32.551	34.145	PASS
2C	15+20	Mid	18803	18974	64QAM	32.701	34.204	PASS
2C	15+10	High	19027	19147	QPSK	23.046	24.419	PASS
2C	15+10	High	19027	19147	16QAM	23.153	24.464	PASS
2C	15+10	High	19027	19147	64QAM	23.051	24.419	PASS
2C	15+15	High	18975	19125	QPSK	28.189	29.709	PASS
2C	15+15	High	18975	19125	16QAM	28.220	29.524	PASS
2C	15+15	High	18975	19125	64QAM	28.255	29.770	PASS
2C	15+20	High	18929	19100	QPSK	32.550	34.259	PASS
2C	15+20	High	18929	19100	16QAM	32.561	34.070	PASS
2C	15+20	High	18929	19100	64QAM	32.615	34.074	PASS
2C	20+5	Low	18700	18817	QPSK	22.844	23.977	PASS
2C	20+5	Low	18700	18817	16QAM	22.852	23.948	PASS
2C	20+5	Low	18700	18817	64QAM	22.803	23.993	PASS
2C	20+10	Low	18700	18844	QPSK	27.707	29.164	PASS
2C	20+10	Low	18700	18844	16QAM	27.661	29.172	PASS
2C	20+10	Low	18700	18844	64QAM	27.627	29.269	PASS
2C	20+15	Low	18700	18871	QPSK	32.612	34.176	PASS
2C	20+15	Low	18700	18871	16QAM	32.543	34.199	PASS
2C	20+15	Low	18700	18871	64QAM	32.511	34.268	PASS
2C	20+20	Low	18700	18898	QPSK	37.475	39.422	PASS
2C	20+20	Low	18700	18898	16QAM	37.460	39.406	PASS
2C	20+20	Low	18700	18898	64QAM	37.477	39.111	PASS
2C	20+5	Mid	18875	18992	QPSK	22.832	24.090	PASS
2C	20+5	Mid	18875	18992	16QAM	22.842	23.985	PASS
2C	20+5	Mid	18875	18992	64QAM	22.825	23.995	PASS
2C	20+10	Mid	18851	18995	QPSK	27.723	29.334	PASS
2C	20+10	Mid	18851	18995	16QAM	27.711	29.117	PASS
2C	20+10	Mid	18851	18995	64QAM	27.745	29.191	PASS
2C	20+15	Mid	18826	18997	QPSK	32.638	34.413	PASS

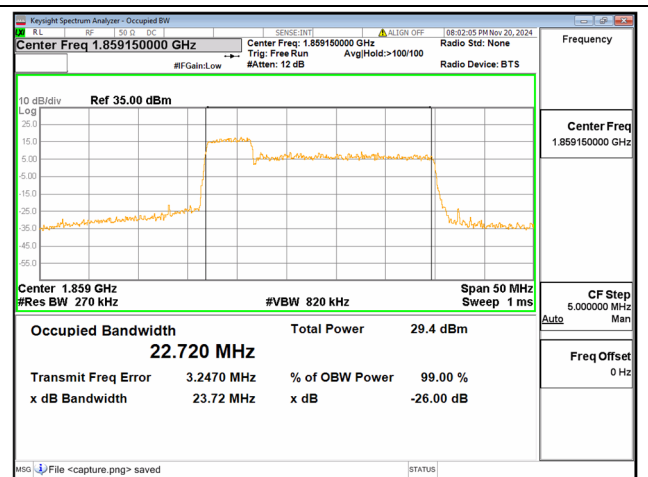


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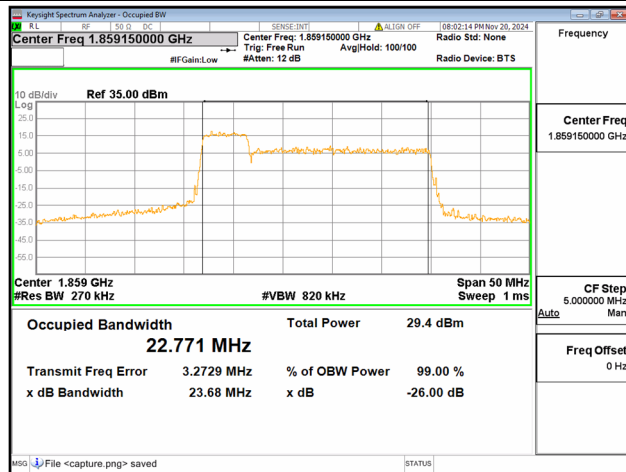
2C	20+15	Mid	18826	18997	16QAM	32.594	34.185	PASS
2C	20+15	Mid	18826	18997	64QAM	32.580	34.235	PASS
2C	20+20	Mid	18801	18999	QPSK	37.501	39.261	PASS
2C	20+20	Mid	18801	18999	16QAM	37.458	39.249	PASS
2C	20+20	Mid	18801	18999	64QAM	37.491	39.229	PASS
2C	20+5	High	19050	19167	QPSK	22.794	24.039	PASS
2C	20+5	High	19050	19167	16QAM	22.843	24.093	PASS
2C	20+5	High	19050	19167	64QAM	22.790	24.125	PASS
2C	20+10	High	19001	19145	QPSK	27.667	29.327	PASS
2C	20+10	High	19001	19145	16QAM	27.696	29.447	PASS
2C	20+10	High	19001	19145	64QAM	27.720	29.242	PASS
2C	20+15	High	18951	19122	QPSK	32.628	34.332	PASS
2C	20+15	High	18951	19122	16QAM	32.542	34.435	PASS
2C	20+15	High	18951	19122	64QAM	32.557	34.203	PASS
2C	20+20	High	18902	19100	QPSK	37.424	39.485	PASS
2C	20+20	High	18902	19100	16QAM	37.420	39.100	PASS
2C	20+20	High	18902	19100	64QAM	37.390	39.431	PASS



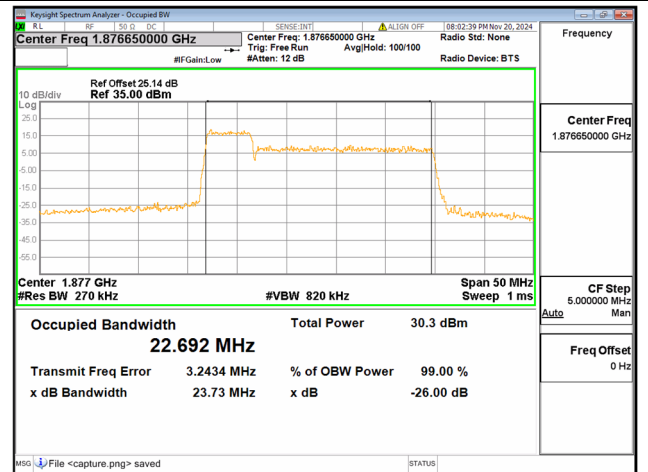
2C / 5+20MHz / QPSK/ Low CH



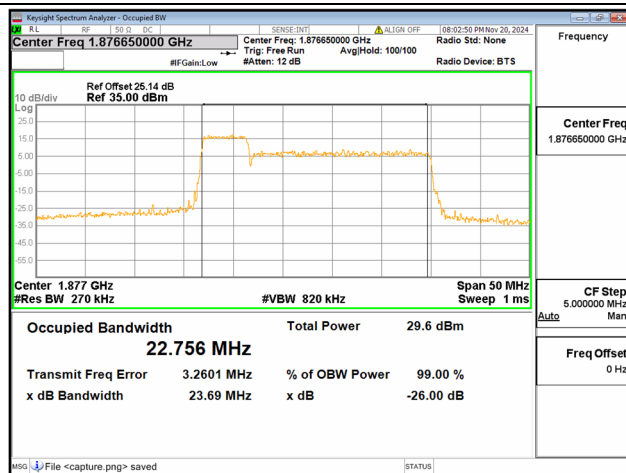
2C / 5+20MHz / 16QAM/ Low CH



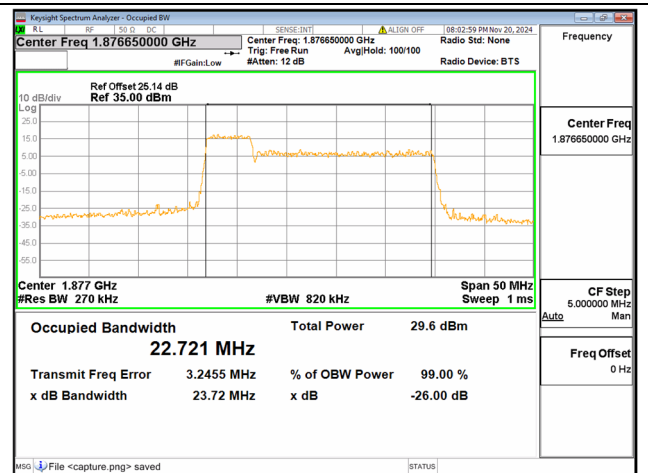
2C / 5+20MHz / 64QAM/ Low CH



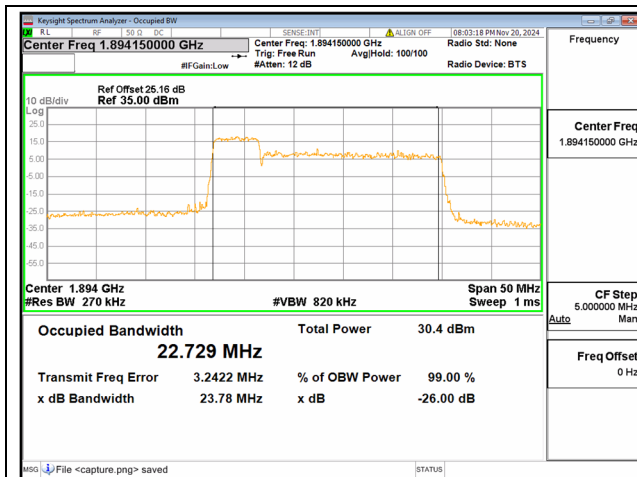
2C / 5+20MHz / QPSK/ Mid CH



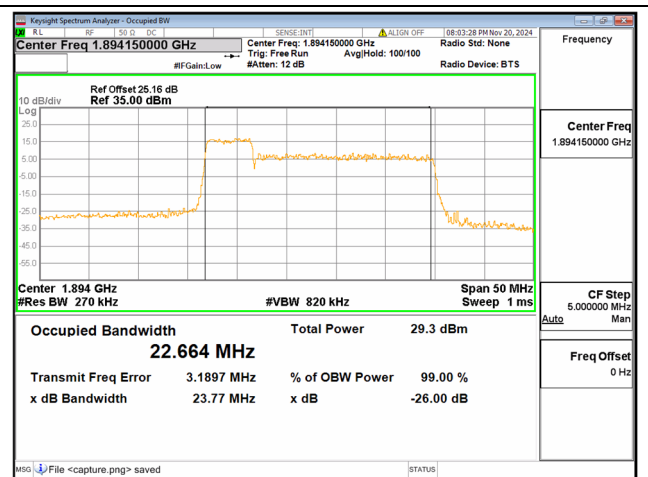
2C / 5+20MHz / 16QAM/ Mid CH



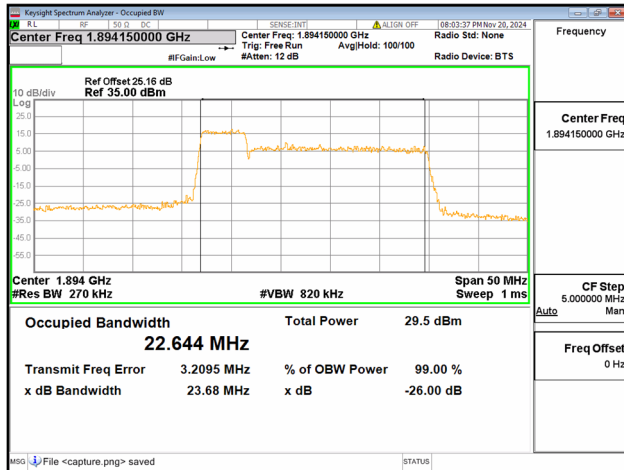
2C / 5+20MHz / 64QAM/ Mid CH



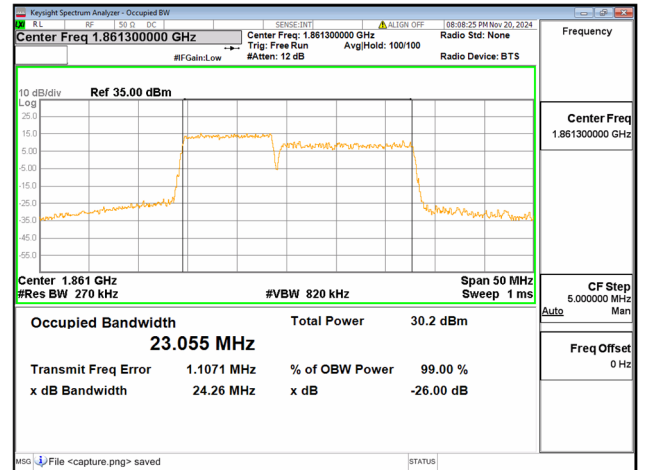
2C / 5+20MHz / QPSK / High CH



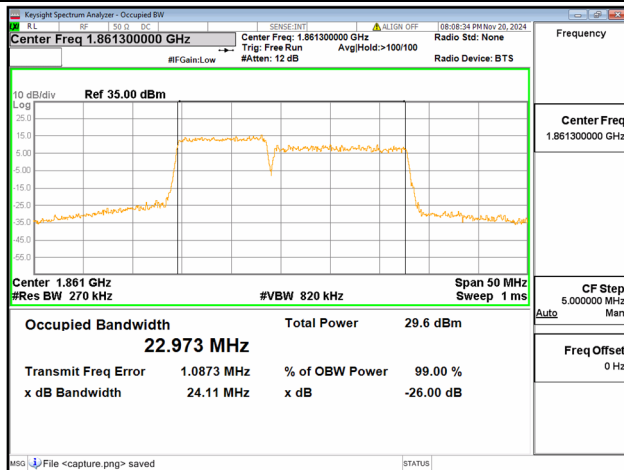
2C / 5+20MHz / 16QAM / High CH



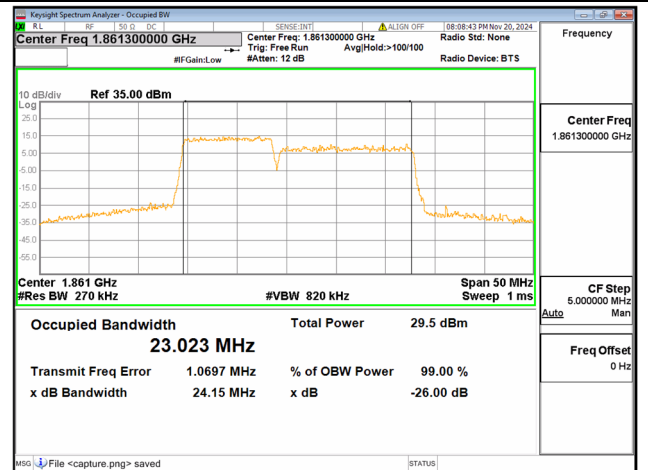
2C / 5+20MHz / 64QAM / High CH



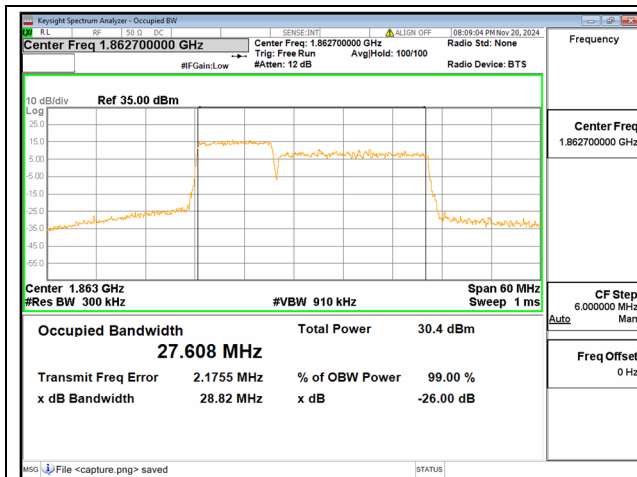
2C / 10+15MHz / QPSK / Low CH



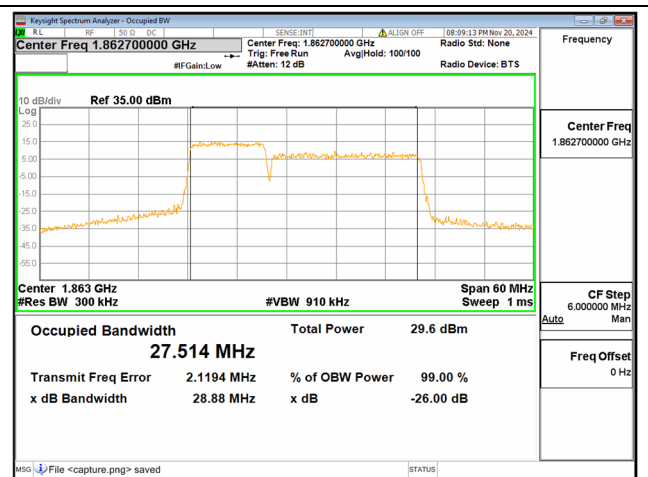
2C / 10+15MHz / 16QAM / Low CH



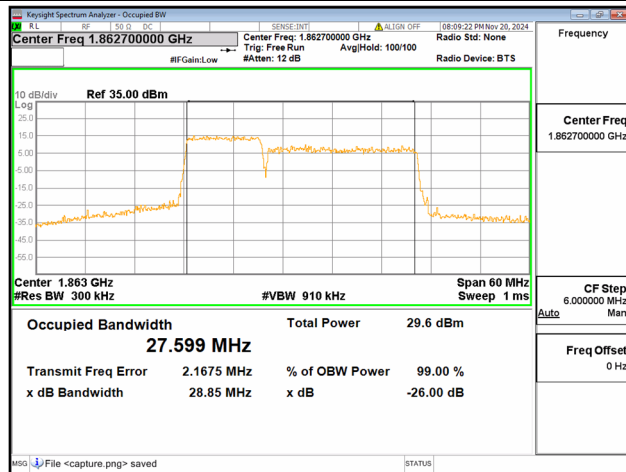
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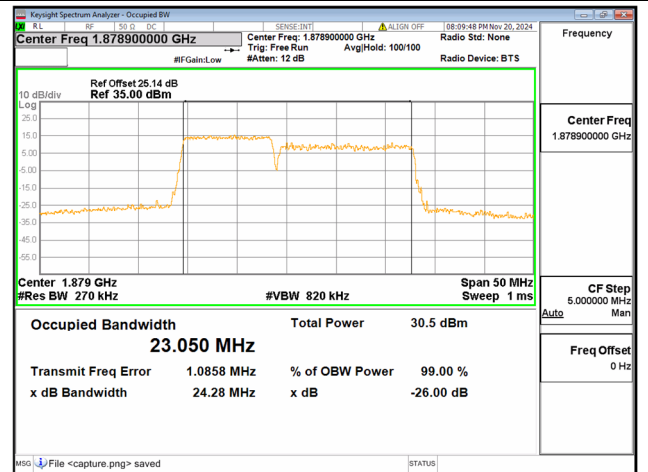
2C / 10+20MHz / QPSK/ Low CH



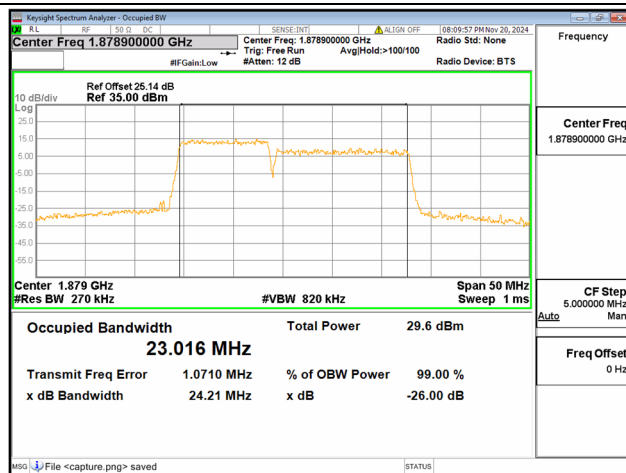
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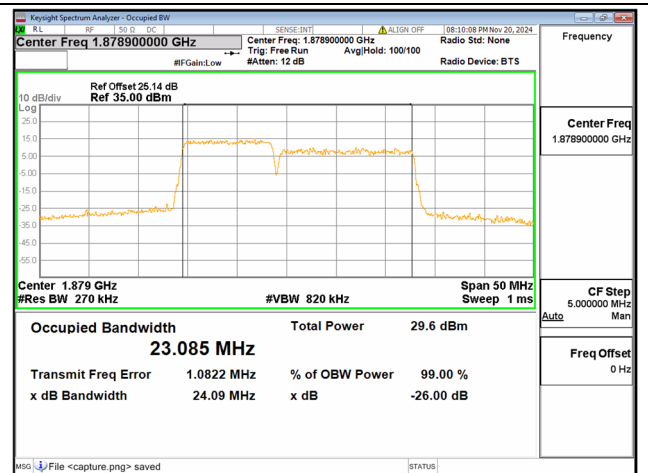
2C / 10+20MHz / 64QAM/ Low CH



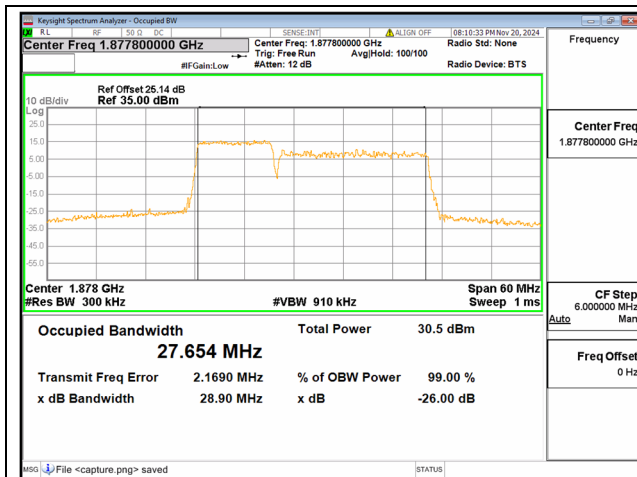
2C / 10+15MHz / QPSK/ Mid CH



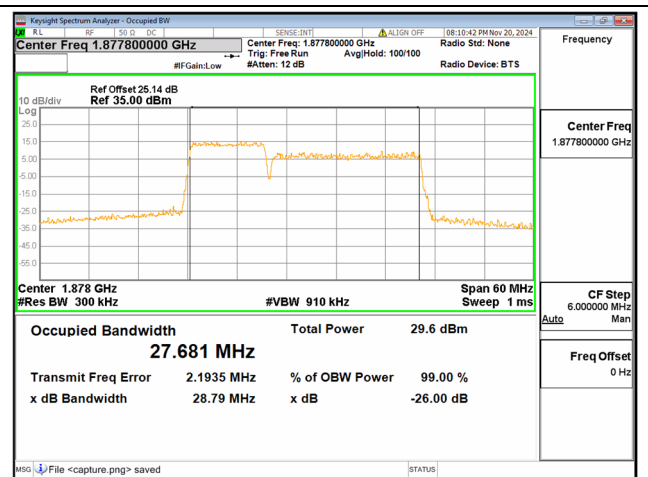
2C / 10+15MHz / 16QAM/ Mid CH



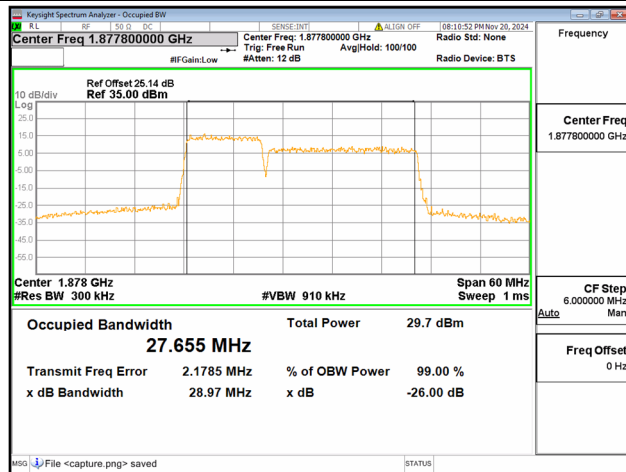
2C / 10+15MHz / 64QAM/ Mid CH



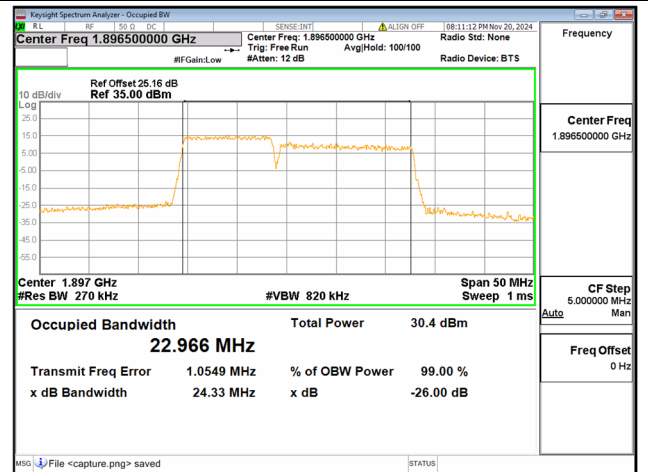
2C / 10+20MHz / QPSK/ Mid CH



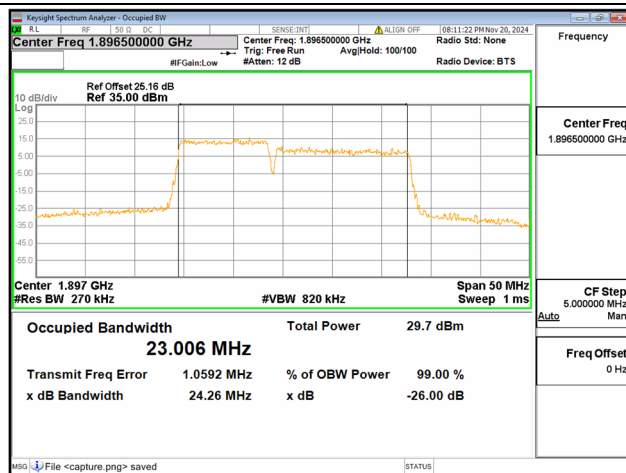
2C / 10+20MHz / 16QAM/ Mid CH



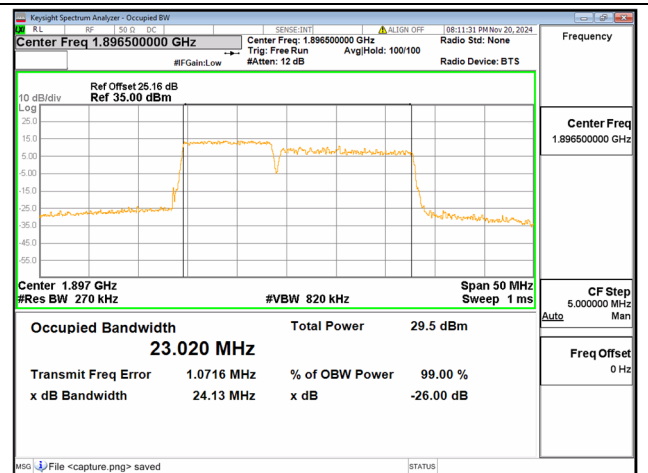
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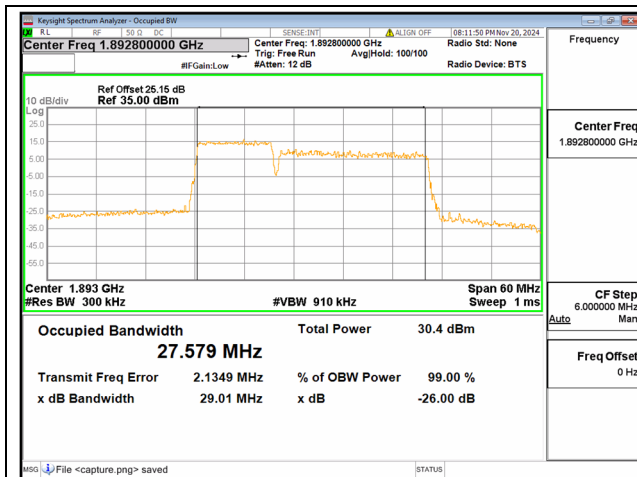
2C / 10+15MHz / QPSK/ High CH



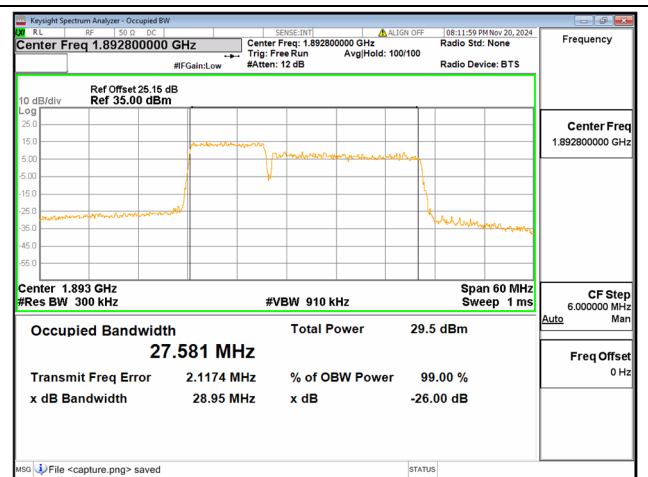
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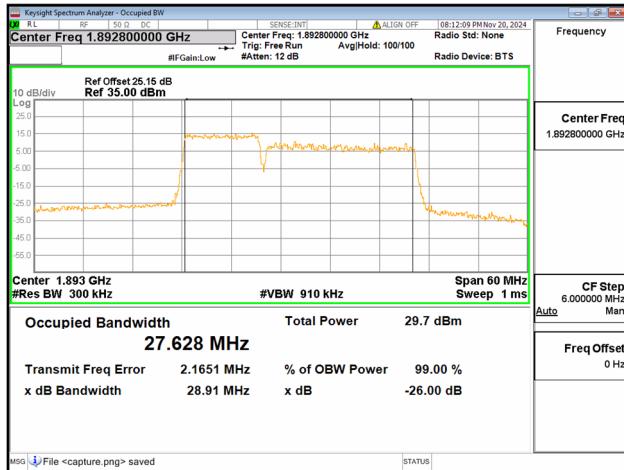
2C / 10+15MHz / 64QAM/ High CH



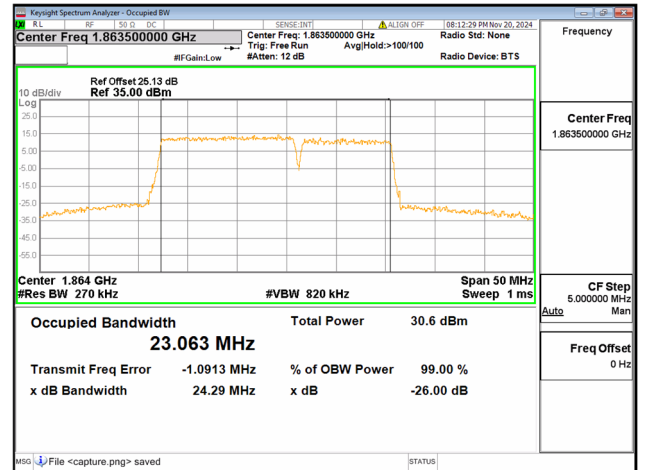
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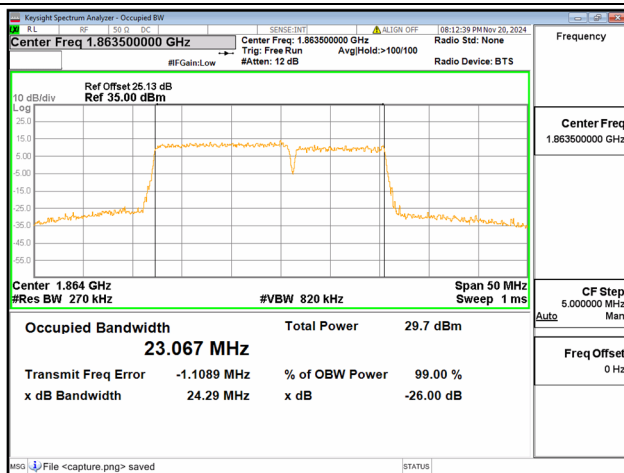
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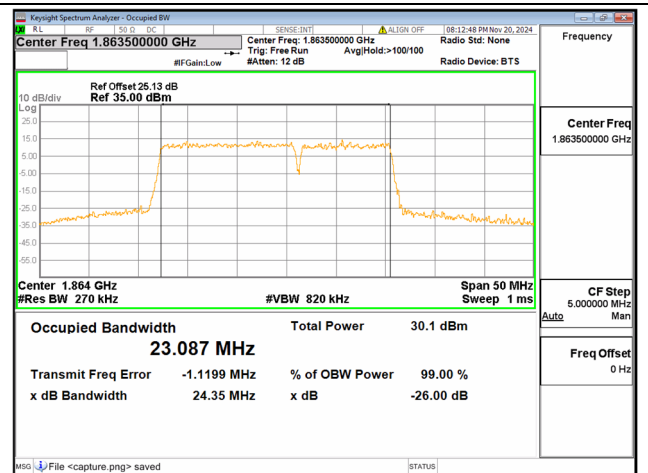
2C / 10+20MHz / 64QAM/ High CH



2C / 15+10MHz / QPSK/ Low CH



2C / 15+10MHz / 16QAM/ Low CH



2C / 15+10MHz / 64QAM/ Low CH