



TEST REPORT

APPLICANT : Rhino Mobility LLC

PRODUCT NAME : Smartphone

MODEL NAME : C6

BRAND NAME : RHINO

FCC ID : 2AUOUC6

STANDARD(S) : 47 CFR Part 2
: 47 CFR Part 27

RECEIPT DATE : 2023-04-20

TEST DATE : 2023-04-25 to 2023-05-22

ISSUE DATE : 2023-07-03



Edited by: Li Huaijie
Li Huaijie (Rapporteur)

Approved by: Shen Junsheng
Shen Junsheng(Supervisor)

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Change History		
Version	Date	Reason for change
1.0	2023-07-03	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:	Smartphone	
Hardware Version:	Q6010_MB_V1.0	
Software Version:	C6(001)_20230510	
IMEI:	359939470003470	
Modulation Type:	QPSK, 16QAM, 64QAM	
Operation Band:	Uplink: CA_7C, CA_41C	
Frequency Range:	LTE CA_7C	Tx: 2500MHz–2570MHz
		Rx: 2620MHz–2690MHz
	LTE CA_41C	Tx: 2496 MHz–2690MHz
		Rx: 2496 MHz–2690MHz
Channel Bandwidth:	LTE CA_7C	10MHz+20MHz,20MHz+10MHz,15MHz+10MHz 15MHz+15MHz,15MHz+20MHz,20MHz+15MHz 20MHz+20MHz
	LTE CA_41C	5MHz+20MHz,20MHz+5MHz,10MHz+15MHz, 15MHz+10MHz,10MHz+20MHz,20MHz+10MHz 15MHz+15MHz,15MHz+20MHz,20MHz+15MHz 20MHz+20MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	LTE Band 7	1.16 dBi
	LTE Band 41	1.54 dBi



Accessory Information:	Battery	
	Brand Name:	N/A
	Model No.:	BPC6
	Serial No.:	N/A
	Rated Capacity:	3950 mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	Phenix New Energy (Huizhou) Co., Ltd.
	AC Adapter	
	Brand Name:	RHINO
	Model No.:	TPA-10S120150UU01
	Serial No.:	N/A
	Rated Output:	3.6-6.0V \Rightarrow 3.0A or 6.0-9.0V \Rightarrow 2.0A or 9.0-12.0V \Rightarrow 1.5A
	Rated Input:	100-240V \sim 1.8A
	Manufacturer:	Shenzhen Tianyin Electronics Co., Ltd.
	USB Cable 1	
	Model No.:	188.123022001-09
	Manufacturer:	Yibin Ruirun Electronics Co., Ltd.
	USB Cable 2	
	Model No.:	188.123022002-09
Manufacturer:	Yibin Ruirun Electronics Co., Ltd.	
USB Cable 3		
Model No.:	USB TYPE A TO C 2.0 Cable 2.0m	
Manufacturer:	HUIZHOU WASHIN ELECTRONICTS CO.,LTD.	
USB Cable 4		
Model No.:	USB TYPE A TO C 2.0 Cable 1.0m	
Manufacturer:	HUIZHOU WASHIN ELECTRONICTS CO.,LTD.	

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.3. Maximum ERP/EIRP and Emission Designator

Channel bandwidth	Maximum ERP/EIRP (W)		
LTE CA_7C	QPSK	16QAM	64QAM
20+20	0.148	/	/
LTE CA_41C	QPSK	16QAM	64QAM
20+20	0.234	/	/

Channel bandwidth	Emission Designator (99%OBW)		
LTE CA_7C	QPSK	16QAM	64QAM
10+20	27M6G7W	27M6D7W	27M7D7W
15+10	23M2G7W	23M4D7W	23M4D7W
15+15	28M2G7W	28M3D7W	28M2D7W
15+20	32M4G7W	32M6D7W	32M3D7W
20+10	27M8G7W	27M7D7W	27M7D7W
20+15	32M6G7W	32M5D7W	32M4D7W
20+20	37M2G7W	37M4D7W	37M2D7W

Channel bandwidth	Emission Designator (99%OBW)		
LTE CA_41C	QPSK	16QAM	64QAM
5+20	22M7G7W	22M8D7W	22M8D7W
10+15	23M1G7W	23M0D7W	23M0D7W
10+20	27M6G7W	27M6D7W	27M6D7W
15+10	23M1G7W	23M0D7W	23M1D7W
15+15	28M2G7W	28M3D7W	28M2D7W
15+20	32M4G7W	32M4D7W	32M5D7W
20+5	22M8G7W	22M9D7W	22M8D7W
20+10	27M7G7W	27M7D7W	27M7D7W
20+15	32M5G7W	32M5D7W	32M4D7W
20+20	37M2G7W	37M3D7W	37M2D7W



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 27 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 27	Miscellaneous Wireless Communications Services

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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046, 27.50(h)(2),	Transmitter Conducted Output Power and ERP/EIRP	2023/05/15	Shen Biaohong Li Huaijie	PASS	No deviation
2.1049	Occupied Bandwidth	2023/04/26- 2023/05/16	Li Huaijie	PASS	No deviation
2.1051, 27.53(m)(4), 27.53(h)	Conducted Spurious Emissions	2023/04/25- 2023/05/08	Li Huaijie	PASS	No deviation
2.1051, 27.53(m)(4),	Band Edge	2023/04/25- 2023/05/08	Li Huaijie	PASS	No deviation
2.1051, 27.53(m)(4),	Radiated Spurious Emissions	2023/05/22	Lin jiayong Li hanbin	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 8dB contains two parts that cable loss 5dB and Attenuator3dB.

Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.



1.5. Environmental Conditions

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

Temperature (°C):	15 - 35
Relative Humidity (%):	30 - 60
Atmospheric Pressure (kPa):	86-106

2. 47 CFR Part 2 and Part 27 Requirements

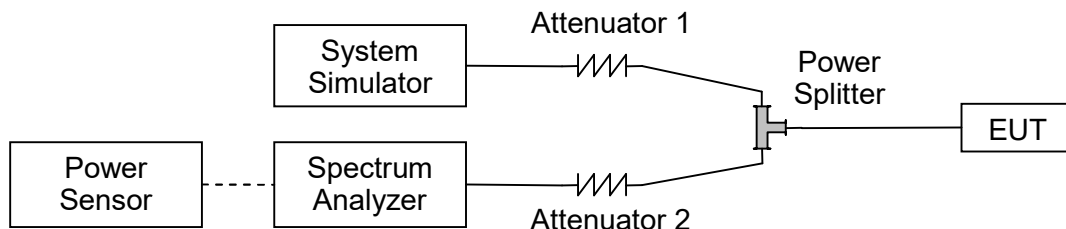
2.1. Transmitter Conducted Output Power and ERP/EIPR

2.1.1. Requirement

According to FCC section 2.1046(a) for transmitters other than single sideband, 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 27.50 (h)(2) for LTE Band 7, 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.

2.1.1. 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.

2.1.2. Test procedure

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

$EIRP \text{ (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$ERP \text{ (dBm)} = EIPR \text{ (dBm)} - 2.15$



2.1.3. Result

Conducted Output Power

LTE CA_7C								
Combination:20MHz+20MHz(100RB+100RB)								
PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
			RB Size	RB Offset	RB Size	RB Offset		
20850	21048	QPSK	1	0	100	0	1	20.48
21001	21199	QPSK	1	0	100	0	1	20.53
21152	21350	QPSK	1	0	100	0	1	20.29

LTE CA_41C								
Combination:20MHz+20MHz(100RB+100RB)								
PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
			RB Size	RB Offset	RB Size	RB Offset		
39750	39948	QPSK	1	0	100	0	1	22.12
40521	40719	QPSK	1	0	100	0	1	22.16
41292	41490	QPSK	1	0	100	0	1	22.07

Effective Radiated Power and Effective Isotropic Radiated Power

LTE CA_7C									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Measured EIRP(W)
			RB Size	RB Offset	RB Size	RB Offset			
39750	39948	QPSK	1	0	100	0	1	21.64	0.146
40521	40719	QPSK	1	0	100	0	1	21.69	0.148
41292	41490	QPSK	1	0	100	0	1	21.45	0.140

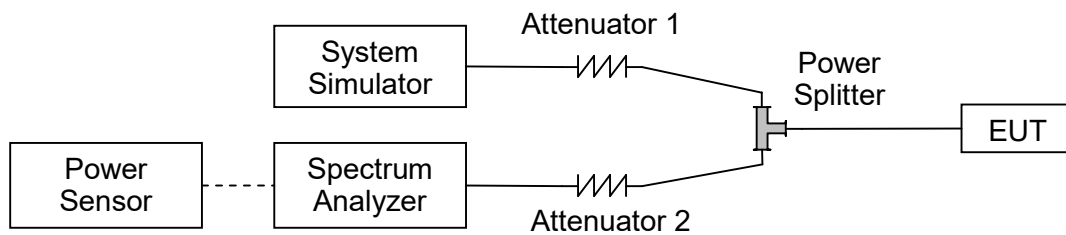
LTE CA_41C									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Measured EIRP(W)
			RB Size	RB Offset	RB Size	RB Offset			
55340	55538	QPSK	1	0	100	0	1	23.66	0.232
55891	56089	QPSK	1	0	100	0	1	23.70	0.234
56442	56640	QPSK	1	0	100	0	1	23.61	0.230

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 CA_7C					
BW(MHz)	Channel Level	Channel	Modulation	99% BW (MHz)	26dB BW (MHz)
10MHz+20MHz	Low	20805	QPSK	27.62	28.66
10MHz+20MHz	Low	20805	16QAM	27.58	28.76
10MHz+20MHz	Low	20805	64QAM	27.65	28.80
20MHz+10MHz	Low	20850	QPSK	27.62	28.96
20MHz+10MHz	Low	20850	16QAM	27.69	29.04
20MHz+10MHz	Low	20850	64QAM	27.66	28.95
15MHz+10MHz	Low	20825	QPSK	23.03	24.27
15MHz+10MHz	Low	20825	16QAM	23.17	31.34
15MHz+10MHz	Low	20825	64QAM	23.19	34.01
15MHz+15MHz	Low	20825	QPSK	28.24	29.45
15MHz+15MHz	Low	20825	16QAM	28.14	29.18
15MHz+15MHz	Low	20825	64QAM	28.18	29.57
15MHz+20MHz	Low	20828	QPSK	32.44	33.83
15MHz+20MHz	Low	20828	16QAM	32.51	34.05
15MHz+20MHz	Low	20828	64QAM	32.34	33.90
20MHz+15MHz	Low	20850	QPSK	32.41	33.95
20MHz+15MHz	Low	20850	16QAM	32.51	34.02
20MHz+15MHz	Low	20850	64QAM	32.38	34.08
20MHz+20MHz	Low	20850	QPSK	37.18	38.91
20MHz+20MHz	Low	20850	16QAM	37.34	38.99
20MHz+20MHz	Low	20850	64QAM	37.17	38.98
10MHz+20MHz	Mid	21006	QPSK	27.52	29.74
10MHz+20MHz	Mid	21006	16QAM	27.55	28.66
10MHz+20MHz	Mid	21006	64QAM	27.39	28.74
20MHz+10MHz	Mid	21051	QPSK	27.82	28.83
20MHz+10MHz	Mid	21051	16QAM	27.63	29.07
20MHz+10MHz	Mid	21051	64QAM	27.65	28.95
15MHz+10MHz	Mid	21051	QPSK	23.21	35.74
15MHz+10MHz	Mid	21051	16QAM	23.42	42.77
15MHz+10MHz	Mid	21051	64QAM	23.40	46.83
15MHz+15MHz	Mid	21025	QPSK	28.20	30.73
15MHz+15MHz	Mid	21025	16QAM	28.25	29.39
15MHz+15MHz	Mid	21025	64QAM	28.16	29.53
15MHz+20MHz	Mid	21003	QPSK	32.40	33.84
15MHz+20MHz	Mid	21003	16QAM	32.41	33.85
15MHz+20MHz	Mid	21003	64QAM	32.29	33.87
20MHz+15MHz	Mid	21026	QPSK	32.57	33.97
20MHz+15MHz	Mid	21026	16QAM	32.43	34.07
20MHz+15MHz	Mid	21026	64QAM	32.40	34.09
20MHz+20MHz	Mid	21001	QPSK	37.07	38.90
20MHz+20MHz	Mid	21001	16QAM	37.25	38.97
20MHz+20MHz	Mid	21001	64QAM	37.07	39.00
10MHz+20MHz	High	21206	QPSK	27.61	28.65
10MHz+20MHz	High	21206	16QAM	27.53	28.63
10MHz+20MHz	High	21206	64QAM	27.46	28.85



20MHz+10MHz	High	21251	QPSK	27.71	29.02
20MHz+10MHz	High	21251	16QAM	27.64	29.05
20MHz+10MHz	High	21251	64QAM	27.61	28.98
15MHz+10MHz	High	21277	QPSK	23.15	38.29
15MHz+10MHz	High	21277	16QAM	23.14	35.78
15MHz+10MHz	High	21277	64QAM	23.18	37.35
15MHz+15MHz	High	21225	QPSK	28.13	29.43
15MHz+15MHz	High	21225	16QAM	28.24	29.54
15MHz+15MHz	High	21225	64QAM	28.15	29.59
15MHz+20MHz	High	21179	QPSK	32.30	33.71
15MHz+20MHz	High	21179	16QAM	32.56	33.90
15MHz+20MHz	High	21179	64QAM	32.30	33.97
20MHz+15MHz	High	21201	QPSK	32.44	34.18
20MHz+15MHz	High	21201	16QAM	32.45	33.99
20MHz+15MHz	High	21201	64QAM	32.39	33.91
20MHz+20MHz	High	21152	QPSK	37.10	38.88
20MHz+20MHz	High	21152	16QAM	37.37	38.92
20MHz+20MHz	High	21152	64QAM	37.15	39.10

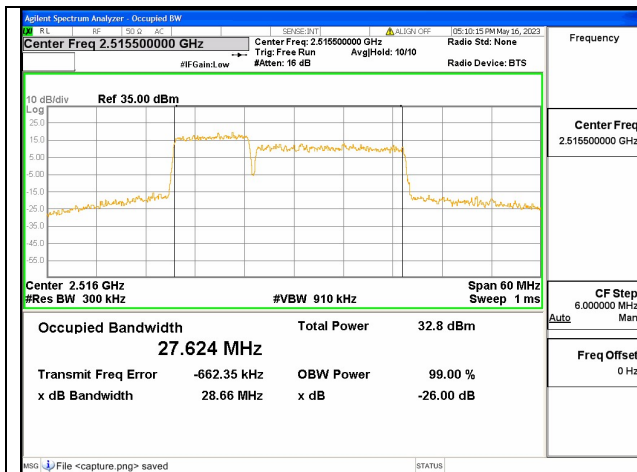
LTE CA_41C					
BW(MHz)	Channel Level	Channel	Modulation	99% BW (MHz)	26dB BW (MHz)
5MHz+20MHz	Low	39683	QPSK	22.70	23.58
5MHz+20MHz	Low	39683	16QAM	22.73	23.56
5MHz+20MHz	Low	39683	64QAM	22.76	23.63
20MHz+5MHz	Low	39750	QPSK	22.81	23.76
20MHz+5MHz	Low	39750	16QAM	22.81	23.83
20MHz+5MHz	Low	39750	64QAM	22.82	23.98
10MHz+15MHz	Low	39703	QPSK	23.06	24.12
10MHz+15MHz	Low	39703	16QAM	23.00	24.20
10MHz+15MHz	Low	39703	64QAM	23.03	24.02
15MHz+10MHz	Low	39725	QPSK	23.09	24.20
15MHz+10MHz	Low	39725	16QAM	23.04	24.34
15MHz+10MHz	Low	39725	64QAM	23.06	24.18
10MHz+20MHz	Low	39705	QPSK	27.57	28.75
10MHz+20MHz	Low	39705	16QAM	27.63	28.81
10MHz+20MHz	Low	39705	64QAM	27.55	29.13
20MHz+10MHz	Low	39750	QPSK	27.63	28.94
20MHz+10MHz	Low	39750	16QAM	27.68	29.23
20MHz+10MHz	Low	39750	64QAM	27.65	28.80
15MHz+15MHz	Low	39725	QPSK	28.18	29.58
15MHz+15MHz	Low	39725	16QAM	28.27	29.37
15MHz+15MHz	Low	39725	64QAM	28.17	29.63
15MHz+20MHz	Low	39728	QPSK	32.43	34.01
15MHz+20MHz	Low	39728	16QAM	32.35	33.88
15MHz+20MHz	Low	39728	64QAM	32.40	34.10
20MHz+15MHz	Low	39750	QPSK	32.45	33.91
20MHz+15MHz	Low	39750	16QAM	32.45	34.03



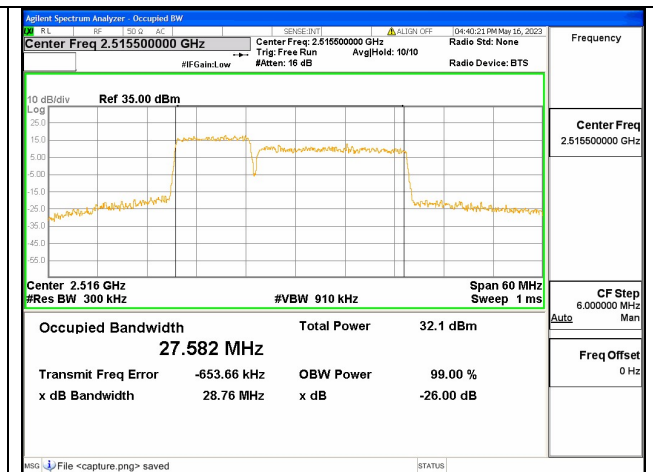
20MHz+15MHz	Low	39750	64QAM	32.40	34.07
20MHz+20MHz	Low	39750	QPSK	37.18	38.87
20MHz+20MHz	Low	39750	16QAM	37.27	38.95
20MHz+20MHz	Low	39750	64QAM	37.22	38.84
5MHz+20MHz	Mid	40528	QPSK	22.70	23.72
5MHz+20MHz	Mid	40528	16QAM	22.75	23.80
5MHz+20MHz	Mid	40528	64QAM	22.68	23.58
20MHz+5MHz	Mid	40595	QPSK	22.78	23.83
20MHz+5MHz	Mid	40595	16QAM	22.85	23.84
20MHz+5MHz	Mid	40595	64QAM	22.79	24.09
10MHz+15MHz	Mid	40549	QPSK	22.99	24.05
10MHz+15MHz	Mid	40549	16QAM	22.93	23.99
10MHz+15MHz	Mid	40549	64QAM	22.94	24.19
15MHz+10MHz	Mid	40571	QPSK	23.04	24.26
15MHz+10MHz	Mid	40571	16QAM	23.04	24.14
15MHz+10MHz	Mid	40571	64QAM	23.08	24.37
10MHz+20MHz	Mid	40526	QPSK	27.56	28.62
10MHz+20MHz	Mid	40526	16QAM	27.62	28.64
10MHz+20MHz	Mid	40526	64QAM	27.54	28.97
20MHz+10MHz	Mid	40571	QPSK	27.69	29.07
20MHz+10MHz	Mid	40571	16QAM	27.61	28.99
20MHz+10MHz	Mid	40571	64QAM	27.68	28.93
15MHz+15MHz	Mid	40545	QPSK	28.16	29.49
15MHz+15MHz	Mid	40545	16QAM	28.25	29.39
15MHz+15MHz	Mid	40545	64QAM	28.16	29.52
15MHz+20MHz	Mid	40523	QPSK	32.36	34.02
15MHz+20MHz	Mid	40523	16QAM	32.36	33.94
15MHz+20MHz	Mid	40523	64QAM	32.45	34.33
20MHz+15MHz	Mid	40546	QPSK	32.45	33.83
20MHz+15MHz	Mid	40546	16QAM	32.39	34.36
20MHz+15MHz	Mid	40546	64QAM	32.44	33.86
20MHz+20MHz	Mid	40521	QPSK	37.22	38.92
20MHz+20MHz	Mid	40521	16QAM	37.23	38.95
20MHz+20MHz	Mid	40521	64QAM	37.22	39.06
5MHz+20MHz	High	41373	QPSK	22.64	23.63
5MHz+20MHz	High	41373	16QAM	22.69	23.56
5MHz+20MHz	High	41373	64QAM	22.67	23.66
20MHz+5MHz	High	41440	QPSK	22.81	23.82
20MHz+5MHz	High	41440	16QAM	22.78	23.92
20MHz+5MHz	High	41440	64QAM	22.73	23.86
10MHz+15MHz	High	41395	QPSK	22.94	24.03
10MHz+15MHz	High	41395	16QAM	22.92	23.96
10MHz+15MHz	High	41395	64QAM	22.96	24.11
15MHz+10MHz	High	41417	QPSK	23.04	24.37
15MHz+10MHz	High	41417	16QAM	23.03	24.16
15MHz+10MHz	High	41417	64QAM	23.05	24.30
10MHz+20MHz	High	41346	QPSK	27.43	28.75
10MHz+20MHz	High	41346	16QAM	27.53	28.66



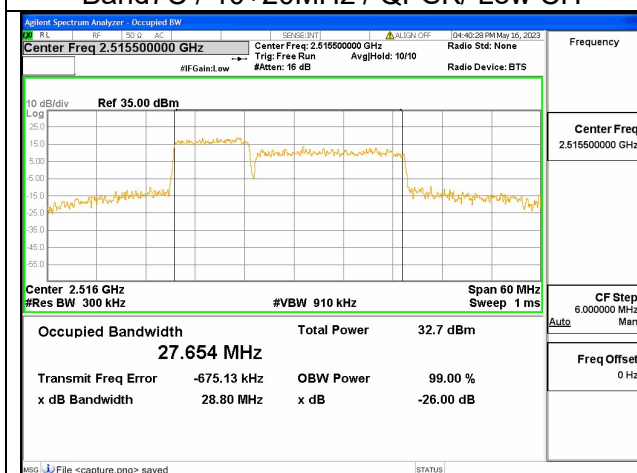
10MHz+20MHz	High	41346	64QAM	27.44	28.65
20MHz+10MHz	High	41391	QPSK	27.60	28.88
20MHz+10MHz	High	41391	16QAM	27.63	28.90
20MHz+10MHz	High	41391	64QAM	27.55	28.78
15MHz+15MHz	High	41365	QPSK	28.07	29.52
15MHz+15MHz	High	41365	16QAM	28.20	29.44
15MHz+15MHz	High	41365	64QAM	28.12	29.46
15MHz+20MHz	High	41319	QPSK	32.29	33.97
15MHz+20MHz	High	41319	16QAM	32.26	33.81
15MHz+20MHz	High	41319	64QAM	32.41	33.91
20MHz+15MHz	High	41341	QPSK	32.39	33.98
20MHz+15MHz	High	41341	16QAM	32.52	34.66
20MHz+15MHz	High	41341	64QAM	32.43	34.55
20MHz+20MHz	High	41292	QPSK	37.11	38.89
20MHz+20MHz	High	41292	16QAM	37.01	40.03
20MHz+20MHz	High	41292	64QAM	37.23	38.94



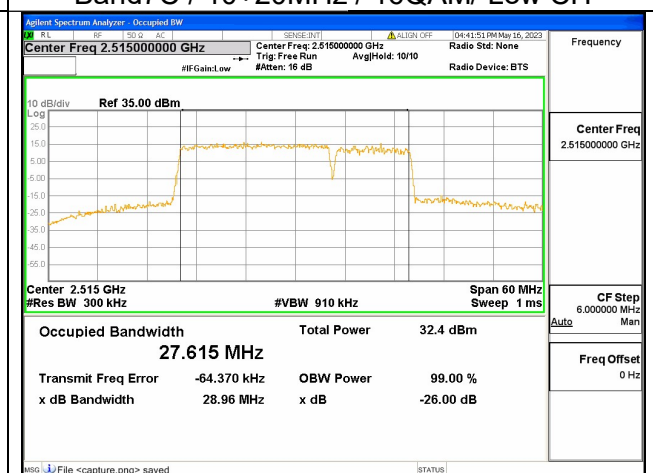
Band7C / 10+20MHz / QPSK/ Low CH



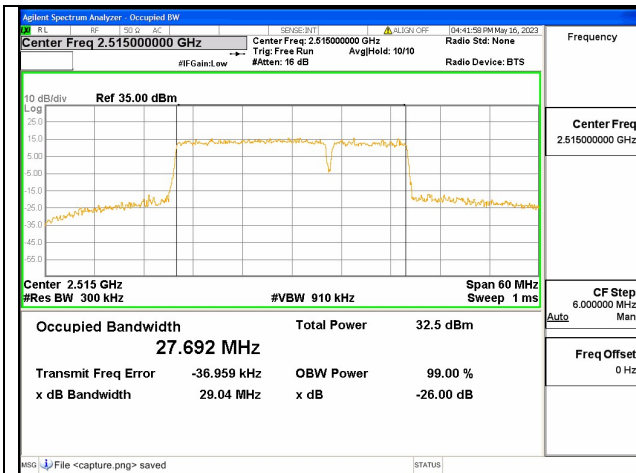
Band7C / 10+20MHz / 16QAM/ Low CH



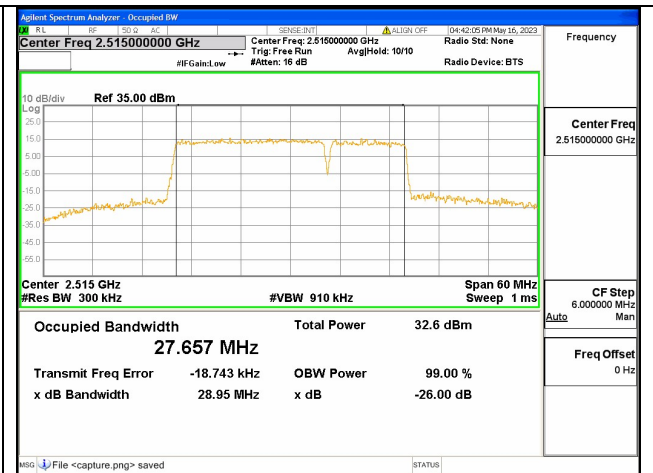
Band7C / 10+20MHz / 64QAM/ Low CH



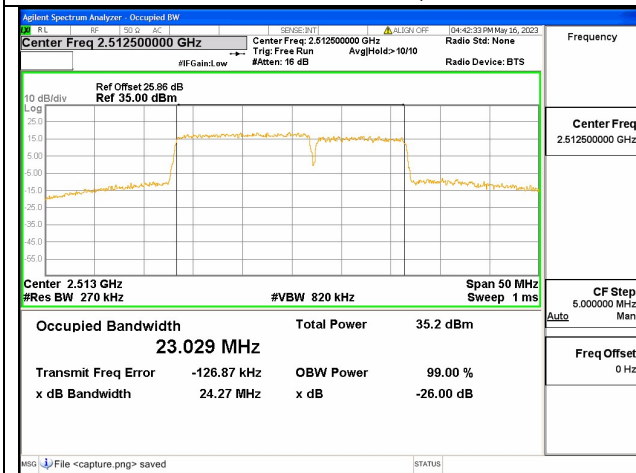
Band7C / 20+10MHz / QPSK/ Low CH



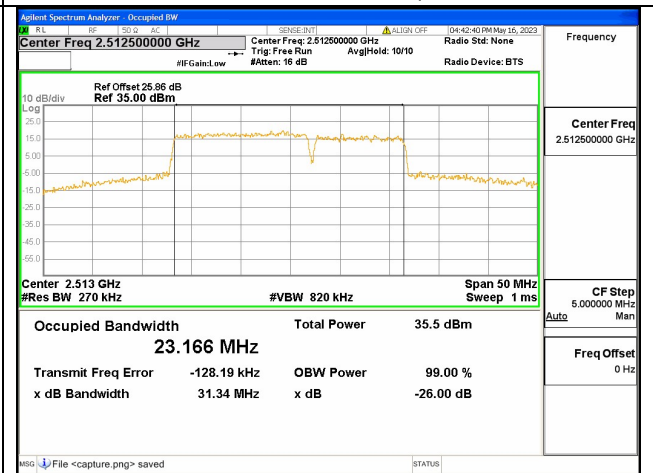
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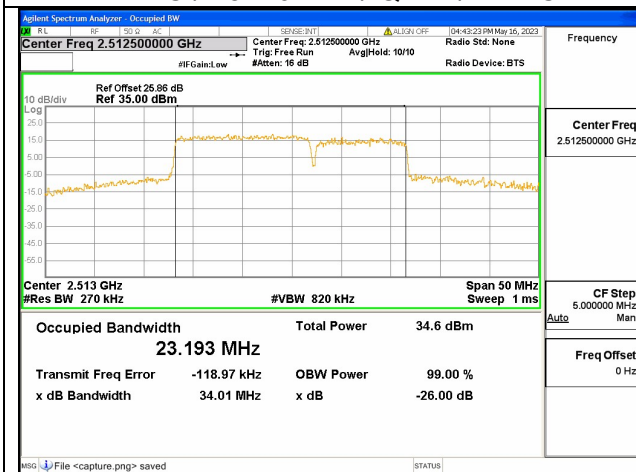
Band7C / 20+10MHz / 64QAM/ Low CH



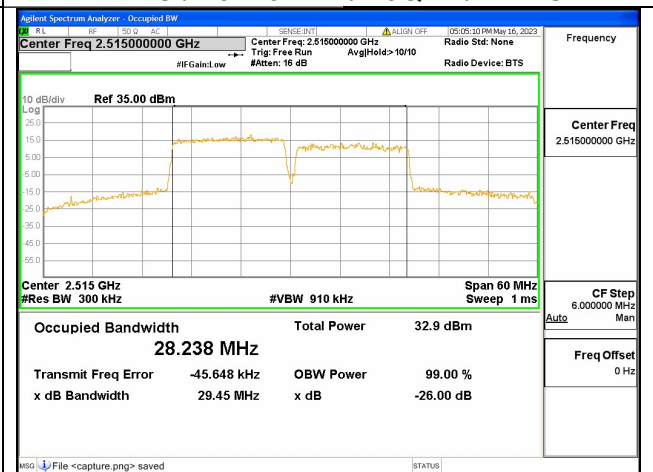
Band7C / 15+10MHz / QPSK/ Low CH



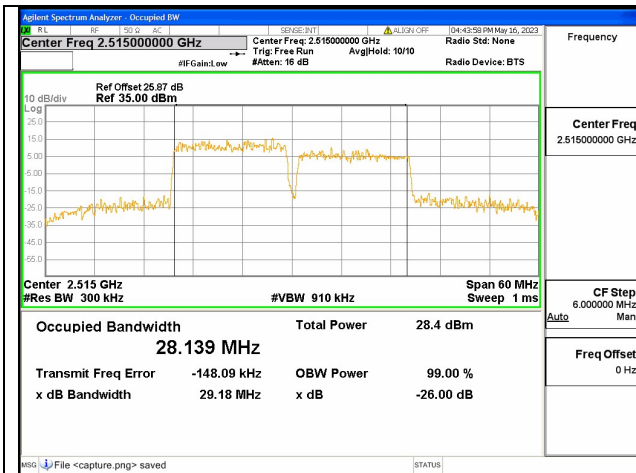
Band7C / 15+10MHz / 16QAM/ Low CH



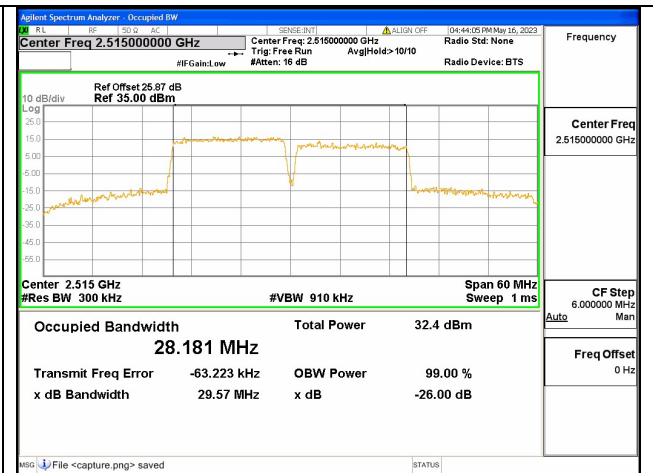
Band7C / 15+10MHz / 64QAM/ Low CH



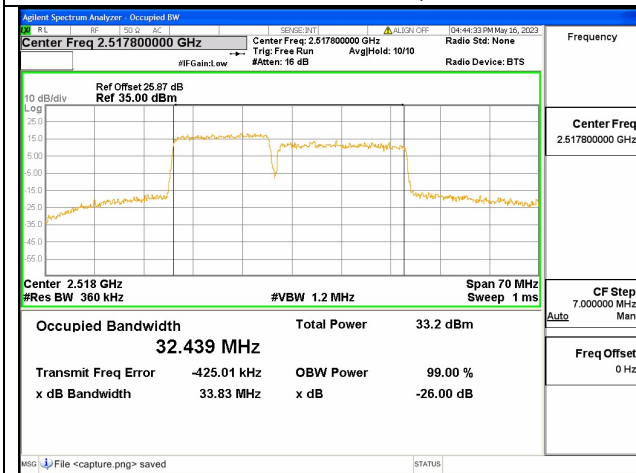
Band7C / 15+15MHz / QPSK/ Low CH



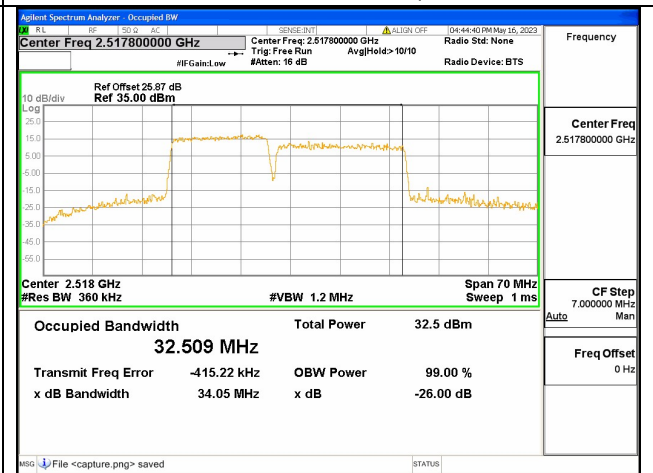
Band7C / 15+15MHz / 16QAM/ Low CH



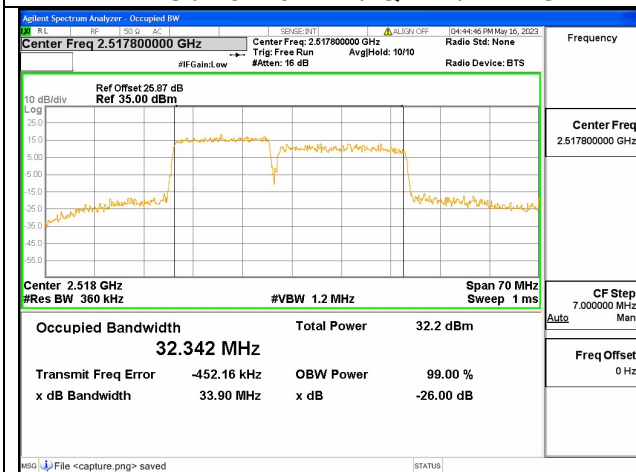
Band7C / 15+15MHz / 64QAM/ Low CH



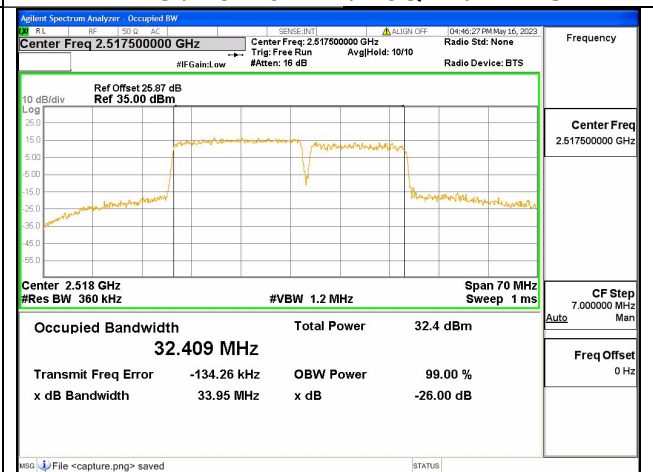
Band7C / 15+20MHz / QPSK/ Low CH



Band7C / 15+20MHz / 16QAM/ Low CH



Band7C / 15+20MHz / 64QAM/ Low CH



Band7C / 20+15MHz / QPSK/ Low CH