



Project No: TM-2310000293P  
Report No.: TMWK2310003861KR

FCC ID: KA2G403A3

Page: 1 / 148  
Rev.: 01

## FCC TEST REPORT

For

**N300 4G Smart Router**

**Trade Name: D-Link**

**Model: G403**

Issued to

**D-Link Corporation**  
**14420 Myford Road Suite 100 Irvine California United States 92606**

Issued by

**Compliance Certification Services Inc.**  
**Wugu Laboratory**  
**No.11, Wugong 6th Rd., Wugu Dist.,**  
**New Taipei City 24891, Taiwan.**  
**Issued Date: December 15, 2023**

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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### Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	December 8, 2023	Initial Issue	ALL	Peggy Tsai
01	December 15, 2023	See the following Note Rev. (01)	P. 4	Peggy Tsai

Rev. (01):

1. Modify Date of Test in section 1.

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# 1. TEST RESULT CERTIFICATION

**Applicant:** D-Link Corporation  
14420 Myford Road Suite 100 Irvine California United States 92606

**Manufacturer:** D-Link Corporation  
14420 Myford Road Suite 100 Irvine California United States 92606

**Equipment Under Test:** N300 4G Smart Router

**Trade Name:** D-Link

**Model:** G403

**Date of Test:** October 24 ~ 30, 2023

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E & 27 Subpart D, L, M	Compliance
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

**We hereby certify that:**

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:




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Shawn Wu  
Supervisor

## 2. EUT DESCRIPTION

<b>Product</b>	N300 4G Smart Router																															
<b>Trade Name</b>	D-Link																															
<b>Model:</b>	G403																															
<b>Model Discrepancy</b>	N/A																															
<b>Received Date</b>	October 18, 2023																															
<b>Power Supply</b>	Power form Adapter AMIGO / AMS159A-1201000FU																															
<b>Modulation Technique</b>	LTE Band 2	QPSK, 16QAM																														
	LTE Band 4	QPSK, 16QAM																														
	LTE Band 5	QPSK, 16QAM																														
	LTE Band 7	QPSK, 16QAM																														
	LTE Band 40	QPSK, 16QAM																														
	LTE Band 66	QPSK, 16QAM																														
<b>Frequency Range</b>	<table border="1"> <thead> <tr> <th colspan="3">LTE Band 2</th> </tr> <tr> <th>BW (MHz)</th> <th colspan="2">Operation Frequency (MHz)</th> </tr> </thead> <tbody> <tr> <td>1.4</td> <td>1850.7</td> <td>-</td> <td>1909.3</td> </tr> <tr> <td>3</td> <td>1851.5</td> <td>-</td> <td>1908.5</td> </tr> <tr> <td>5</td> <td>1852.5</td> <td>-</td> <td>1907.5</td> </tr> <tr> <td>10</td> <td>1855.0</td> <td>-</td> <td>1905.0</td> </tr> <tr> <td>15</td> <td>1857.5</td> <td>-</td> <td>1902.5</td> </tr> <tr> <td>20</td> <td>1860.0</td> <td>-</td> <td>1900.0</td> </tr> </tbody> </table>		LTE Band 2			BW (MHz)	Operation Frequency (MHz)		1.4	1850.7	-	1909.3	3	1851.5	-	1908.5	5	1852.5	-	1907.5	10	1855.0	-	1905.0	15	1857.5	-	1902.5	20	1860.0	-	1900.0
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<p><b>Antenna Specification</b></p>	<p>Antenna Type: Dipole Antenna</p> <p>Chain 0. INPAQ / RFDPA191723IMTB301            LTE Band 2: Gain: 4.27dBi            LTE Band 4: Gain: 2.21dBi            LTE Band 5: Gain: 1.48dBi            LTE Band 7: Gain: 2.34dBi            LTE Band 40: Gain: 4.36dBi            LTE Band 66: Gain: 4.15dBi</p> <p>Chain 1. INPAQ / RFDPA191708IMTB301            LTE Band 2: Gain: 4.35dBi            LTE Band 4: Gain: 3.99dBi            LTE Band 5: Gain: 2.71dBi            LTE Band 7: Gain: 3.21dBi            LTE Band 40: Gain: 4.9dBi            LTE Band 66: Gain: 3.99dBi</p>
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**Remark:**

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

### 3. TEST METHODOLOGY

Both conducted and radiated testing were performed according to ANSI C63.26, FCC CFR 47, Part 22 Subpart H & Part 24 Subpart E、PART 27 SUBPART D, L, M.

#### 3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

#### 3.2 EUT EXERCISE

The EUT (Model: G403) had been tested under operating condition.  
The EUT be set in maximum power transmission via call box during testing.

#### LTE Band 2: 1850MHz ~ 1910MHz

Three channels had been tested for each channel bandwidth.

Channel	1.4MHz		3MHz		5MHz	
	Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
Lowest	18607	1850.7	18615	1851.5	18625	1852.5
Middle	18900	1880.0	18900	1880.0	18900	1880.0
Highest	19193	1909.3	19185	1908.5	19175	1907.5
Channel	10MHz		15MHz		20MHz	
	Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
Lowest	18650	1855.0	18675	1857.5	18700	1860.0
Middle	18900	1880.0	18900	1880.0	18900	1880.0
Highest	19150	1905.0	19125	1902.5	19100	1900.0

#### LTE Band 4: 1710MHz ~ 1755MHz

Three channels had been tested for each channel bandwidth.

Channel Bandwidth	1.4MHz		3MHz		5MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	19957	1710.7	19965	1711.5	19975	1712.5
Middle CH	20175	1732.5	20175	1732.5	20175	1732.5
High CH	20393	1754.3	20385	1753.5	20375	1752.5
Channel Bandwidth	10MHz		15MHz		20MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20000	1715.0	20025	1717.5	20050	1720.00
Middle CH	20175	1732.5	20175	1732.5	20175	1732.50
High CH	20350	1750.0	20325	1747.5	20300	1745.00

**LTE Band 5: 824MHz ~ 849MHz**

Three channels had been tested for each channel bandwidth.

Channel	1.4MHz		3MHz	
	Channel	Frequency(MHz)	Channel	Frequency(MHz)
Lowest	20407	824.7	20415	825.5
Middle	20525	836.5	20525	836.5
Highest	20634	848.3	20635	847.5
Channel	5MHz		10MHz	
	Channel	Frequency(MHz)	Channel	Frequency(MHz)
Lowest	20425	826.5	20450	829.0
Middle	20525	836.5	20525	836.5
Highest	20625	846.5	20600	844.0

**LTE Band 7: 2500 MHz ~ 2570 MHz**

Three channels had been tested for each channel bandwidth.

Channel Bandwidth	5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low channel (L)	20775	2502.5	20800	2505.0
Middle channel (M)	21100	2535.0	21100	2535.0
High channel (H)	21425	2567.5	21400	2565.0
Channel Bandwidth	15MHz		20MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low channel (L)	20825	2507.5	20850	2510.0
Middle channel (M)	21100	2535.0	21100	2535.0
High channel (H)	21375	2562.5	21350	2560.0

**LTE Band 40: 2305MHz ~ 2315MHz**

Three channels had been tested for each channel bandwidth.

Channel Bandwidth	5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	38725	2307.5	/	/
Middle CH	38750	2310	38750	2310
High CH	38775	2312.5	/	/

**LTE Band 40: 2350MHz ~ 2360MHz**

Three channels had been tested for each channel bandwidth.

Channel Bandwidth	5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	39175	2352.5	/	/
Middle CH	39200	2355	39200	2355
High CH	39225	2357.5	/	/



**LTE Band 66: 1710.7MHz ~ 1779.3MHz**

Three channels had been tested for each channel bandwidth.

Channel Bandwidth	1.4MHz		3MHz		5MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	131979	1710.7	131987	1711.5	131997	1712.5
Middle CH	132322	1745	132322	1745	132322	1745
High CH	132665	1779.3	132657	1778.5	132647	1777.5
Channel Bandwidth	10MHz		15MHz		20MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	132022	1715	132047	1717.5	132072	1720
Middle CH	132322	1745	132322	1745	132322	1745
High CH	132622	1775	132597	1772.5	132572	1770

### 3.3 DESCRIPTION OF TEST MODES

The EUT (Model: G403) had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

#### 3.4.1 The worst mode of measurement

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by Adapter
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4
Worst Position	<input type="checkbox"/> Placed in fixed position. <input checked="" type="checkbox"/> Placed in fixed position at X-Plane (E2-Plane) <input type="checkbox"/> Placed in fixed position at Y-Plane (E1-Plane) <input type="checkbox"/> Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by Adapter
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4

**Remark:**

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(X-Plane) were recorded in this report

#### 4. TEST SUMMARY

FCC Standard Sec.	Report Section	Test Item	Result
-	2	Antenna Requirement	Pass
27.50(d) 22.913(a), 24.232(c) 27.50(b), 27.50(h)	8.1	ERP and EIRP Measurement	Pass
2.1055, 27.54, 22.355, 24.235	8.2	Frequency Stability v.s. temperature measurement	Pass
2.1049 27.53(a)	8.3	Occupied Bandwidth Measurement	Pass
27.50(d) 22.913(d), 24.232(d)	8.4	Peak to Average Ratio	Pass
27.53(h) 22.917(a), 24.238(a) 27.53(c), 27.53(m)	8.5 & 8.6	Conducted Band Edge & Conducted Spurious Emission	Pass
27.53(h) 22.917(a), 24.238(a) 27.53(c), 27.53(m)	8.7	Spurious Radiation Measurement	Pass

## 5. INSTRUMENT CALIBRATION

### 5.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

### 5.2 MEASUREMENT EQUIPMENT USED

#### Equipment Used for Emissions Measurement

Conducted_FCC/IC/NCC (WWAN)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Signal Analyzer	Keysight	N9030B	MY62291089	2023-10-13	2024-10-12
Radio Communication Analyzer	Rohde & Schwarz	CMW500	116875	2023-06-08	2024-06-07
Cable	Woken	SUMITOMO	1	2023-03-02	2024-03-01
Software	Radio Test Software Ver. 21				

966A_Radiated WWAN					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Loop Antenna	COM-POWER	AL-130	121051	2023-05-23	2024-05-22
Preamplifier	EMEC	EM330	060609	2023-02-22	2024-02-21
Thermo-Hygro Meter	WISEWIND	1206	D07	2022-12-19	2023-12-18
Signal Analyzer	KEYSIGHT	N9010A	MY54200716	2023-10-13	2024-10-12
Preamplifier	HP	8449B	3008A00965	2022-12-23	2023-12-22
Bi-Log Antenna	Sunol Sciences	JB1	A052609	2023-02-09	2024-02-08
Bi-Log Antenna	Sunol Sciences	JB3	A030105	2023-08-08	2024-08-07
Cable	Huber+Suhner	104PEA	20995+21000+182330	2023-02-22	2024-02-21
Cable	EMCI	EMC101G	221213+221011+221012	2023-10-17	2024-10-16
Cable	EMCI	EMC104G	SN230204	2023-05-13	2024-05-12
Horn Antenna	ETS LINDGREN	3117	55165	2023-07-12	2024-07-11
Horn Antenna	ETC	MCTD 1209	DRH13M02003	2023-01-12	2024-01-11
Horn Antenna	SCHWARZBECK	BBHA9170	1047	2022-12-30	2023-12-29
Pre-Amplifier	EMCI	EMC184045SE	980860	2022-12-27	2023-12-26
Signal Generator	Agilent	E8257C	US42340383	2022-06-29	2023-06-28
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Software	e3 V9-210616c				

**Remark:**

1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Required.

### 5.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
RF Output Power	± 2.533 dB
Channel Bandwidth	± 2.532 MHz
Peak to average ratio	± 2.531 dB
Conducted Bandedge	± 2.532 dB
Conducted Unwanted Emissions	± 2.533 dB
Frequency Stability	± 2.579 Hz
Radiated Emission_9kHz-30MHz	± 3.778 dB
Radiated Emission_30MHz-200MHz	± 3.457 dB
Radiated Emission_200MHz-1GHz	± 3.962 dB
Radiated Emission_1GHz-6GHz	± 4.804 dB
Radiated Emission_6GHz-18GHz	± 4.781 dB
Radiated Emission_18GHz-26GHz	± 3.112 dB
Radiated Emission_26GHz-40GHz	± 3.314 dB

**Remark:** This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## **6. FACILITIES AND ACCREDITATIONS**

### **6.1 FACILITIES**

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan.

Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045

## 7. SETUP OF EQUIPMENT UNDER TEST

### 7.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

### 7.2 SUPPORT EQUIPMENT

Support Unit List					
NO	Kind	Brand	Model	Core	Length
A	Adapter	AMIGO	AMS159A-1201000FU	N/A	N/A

**Remark:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

## 8. FCC PART 22 & 24 & 27 REQUIREMENTS

### 8.1 ERP & EIRP MEASUREMENT

#### LIMIT

**FCC 22.913(b):**

The Effective Radiated Power (ERP) of mobile transmitters must not exceed 7 Watts.

**FCC 24.232(b):**

The equivalent Isotropic Radiated Power (EIRP) must not exceed 2 Watts.

**FCC 27.50 (d) (4):**

Fixed, mobile, and portable (handheld) stations operating in the 1710-1755MHz band and mobile and portable stations operating in the 1695-1710MHz and 1755-1780MHz bands are limited to 1 watt EIRP.

**FCC 27.50 (b) (10):**

Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

**FCC 27.50 (h):**

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

#### Test Procedures

##### CONDUCTED POWER MEASUREMENT:

1. The transmitter output power was connected to the call box.
2. Set EUT at maximum output power via call box.
3. Set Call box at lowest, middle and highest channels for each band and modulation.

#### TEST RESULTS

Compliance.

**Temperature:** 22.3 ~ 25.6°C

**Test date:** October 24 ~ 27, 2023

**Humidity:** 55 ~ 57% RH

**Tested by:** Marco Chan



**LTE Band 2**

Antenna gain (dBi)		4.35							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	24.35	<b>28.70</b>	33	-4.3
				1	5	24.32	28.67	33	-4.33
				3	2	24.22	28.57	33	-4.43
				6	0	23.34	27.69	33	-5.31
	18900	1880	QPSK	1	0	22.53	26.88	33	-6.12
				1	5	22.53	26.88	33	-6.12
				3	2	22.40	26.75	33	-6.25
				6	0	21.42	25.77	33	-7.23
	19193	1909.3	QPSK	1	0	22.08	26.43	33	-6.57
				1	5	22.21	26.56	33	-6.44
				3	2	22.04	26.39	33	-6.61
				6	0	21.01	25.36	33	-7.64
1.4	18607	1850.7	16QAM	1	0	23.83	<b>28.18</b>	33	-4.82
				1	5	23.83	<b>28.18</b>	33	-4.82
				3	2	23.34	27.69	33	-5.31
				6	0	22.45	26.80	33	-6.2
	18900	1880	16QAM	1	0	21.68	26.03	33	-6.97
				1	5	21.61	25.96	33	-7.04
				3	2	21.45	25.80	33	-7.2
				6	0	20.57	24.92	33	-8.08
	19193	1909.3	16QAM	1	0	21.26	25.61	33	-7.39
				1	5	21.22	25.57	33	-7.43
				3	2	21.09	25.44	33	-7.56
				6	0	20.46	24.81	33	-8.19

Antenna gain (dBi)		4.35							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	24.19	28.54	33	-4.46
				1	14	24.12	28.47	33	-4.53
				8	4	23.39	27.74	33	-5.26
				15	0	23.35	27.70	33	-5.3
	18900	1880	QPSK	1	0	22.35	26.70	33	-6.3
				1	14	22.37	26.72	33	-6.28
				8	4	21.44	25.79	33	-7.21
				15	0	21.37	25.72	33	-7.28
	19185	1908.5	QPSK	1	0	21.82	26.17	33	-6.83
				1	14	22.04	26.39	33	-6.61
				8	4	20.98	25.33	33	-7.67
				15	0	20.96	25.31	33	-7.69
3	18615	1851.5	16QAM	1	0	23.47	27.82	33	-5.18
				1	14	23.39	27.74	33	-5.26
				8	4	22.45	26.80	33	-6.2
				15	0	22.36	26.71	33	-6.29
	18900	1880	16QAM	1	0	21.56	25.91	33	-7.09
				1	14	21.55	25.90	33	-7.1
				8	4	20.49	24.84	33	-8.16
				15	0	20.50	24.85	33	-8.15
	19185	1908.5	16QAM	1	0	21.22	25.57	33	-7.43
				1	14	21.39	25.74	33	-7.26
				8	4	20.02	24.37	33	-8.63
				15	0	20.01	24.36	33	-8.64

Antenna gain (dBi)		4.35							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	24.19	28.54	33	-4.46
				1	24	24.04	28.39	33	-4.61
				12	6	23.34	27.69	33	-5.31
				25	0	23.26	27.61	33	-5.39
	18900	1880	QPSK	1	0	22.26	26.61	33	-6.39
				1	24	22.24	26.59	33	-6.41
				12	6	21.41	25.76	33	-7.24
				25	0	21.35	25.70	33	-7.3
	19175	1907.5	QPSK	1	0	21.85	26.20	33	-6.8
				1	24	22.01	26.36	33	-6.64
				12	6	20.92	25.27	33	-7.73
				25	0	20.89	25.24	33	-7.76
5	18625	1852.5	16QAM	1	0	23.40	27.75	33	-5.25
				1	24	23.29	27.64	33	-5.36
				12	6	22.39	26.74	33	-6.26
				25	0	22.18	26.53	33	-6.47
	18900	1880	16QAM	1	0	21.68	26.03	33	-6.97
				1	24	21.68	26.03	33	-6.97
				12	6	20.56	24.91	33	-8.09
				25	0	20.46	24.81	33	-8.19
	19175	1907.5	16QAM	1	0	21.37	25.72	33	-7.28
				1	24	21.47	25.82	33	-7.18
				12	6	20.08	24.43	33	-8.57
				25	0	20.00	24.35	33	-8.65

Antenna gain (dBi)		4.35							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	24.15	<b>28.50</b>	33	-4.5
				1	49	23.54	27.89	33	-5.11
				25	12	23.14	27.49	33	-5.51
				50	0	23.01	27.36	33	-5.64
	18900	1880	QPSK	1	0	22.08	26.43	33	-6.57
				1	49	22.14	26.49	33	-6.51
				25	12	21.30	25.65	33	-7.35
				50	0	21.22	25.57	33	-7.43
	19150	1905	QPSK	1	0	22.49	26.84	33	-6.16
				1	49	21.80	26.15	33	-6.85
				25	12	20.95	25.30	33	-7.7
				50	0	20.93	25.28	33	-7.72
10	18650	1855	16QAM	1	0	23.26	<b>27.61</b>	33	-5.39
				1	49	22.66	27.01	33	-5.99
				25	12	22.13	26.48	33	-6.52
				50	0	21.98	26.33	33	-6.67
	18900	1880	16QAM	1	0	21.07	25.42	33	-7.58
				1	49	21.22	25.57	33	-7.43
				25	12	20.41	24.76	33	-8.24
				50	0	20.31	24.66	33	-8.34
	19150	1905	16QAM	1	0	21.57	25.92	33	-7.08
				1	49	20.87	25.22	33	-7.78
				25	12	20.04	24.39	33	-8.61
				50	0	20.01	24.36	33	-8.64

Antenna gain (dBi)		4.35							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	24.18	<b>28.53</b>	33	-4.47
				1	74	23.15	27.50	33	-5.5
				36	18	22.93	27.28	33	-5.72
				75	0	22.75	27.10	33	-5.9
	18900	1880	QPSK	1	0	22.30	26.65	33	-6.35
				1	74	22.56	26.91	33	-6.09
				36	18	21.36	25.71	33	-7.29
				75	0	21.37	25.72	33	-7.28
	19125	1902.5	QPSK	1	0	22.93	27.28	33	-5.72
				1	74	21.81	26.16	33	-6.84
				36	18	21.40	25.75	33	-7.25
				75	0	21.35	25.70	33	-7.3
15	18675	1857.5	16QAM	1	0	23.46	<b>27.81</b>	33	-5.19
				1	74	22.47	26.82	33	-6.18
				36	18	22.00	26.35	33	-6.65
				75	0	21.77	26.12	33	-6.88
	18900	1880	16QAM	1	0	21.78	26.13	33	-6.87
				1	74	22.10	26.45	33	-6.55
				36	18	20.43	24.78	33	-8.22
				75	0	20.42	24.77	33	-8.23
	19125	1902.5	16QAM	1	0	22.39	26.74	33	-6.26
				1	74	20.98	25.33	33	-7.67
				36	18	20.48	24.83	33	-8.17
				75	0	20.39	24.74	33	-8.26

Antenna gain (dBi)		4.35							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	24.11	28.46	33	-4.54
				1	99	22.49	26.84	33	-6.16
				50	25	22.54	26.89	33	-6.11
				100	0	22.30	26.65	33	-6.35
	18900	1880	QPSK	1	0	22.40	26.75	33	-6.25
				1	99	22.64	26.99	33	-6.01
				50	25	21.36	25.71	33	-7.29
				100	0	21.39	25.74	33	-7.26
	19100	1900	QPSK	1	0	22.92	27.27	33	-5.73
				1	99	21.79	26.14	33	-6.86
				50	25	21.64	25.99	33	-7.01
				100	0	21.45	25.80	33	-7.2
20	18700	1860	16QAM	1	0	23.58	27.93	33	-5.07
				1	99	22.03	26.38	33	-6.62
				50	25	21.67	26.02	33	-6.98
				100	0	21.40	25.75	33	-7.25
	18900	1880	16QAM	1	0	21.65	26.00	33	-7
				1	99	21.90	26.25	33	-6.75
				50	25	20.45	24.80	33	-8.2
				100	0	20.47	24.82	33	-8.18
	19100	1900	16QAM	1	0	22.16	26.51	33	-6.49
				1	99	20.98	25.33	33	-7.67
				50	25	20.78	25.13	33	-7.87
				100	0	20.52	24.87	33	-8.13

**LTE Band 4**

Antenna gain (dBi)		3.99							
<b>LTE Band 4_Uplink frequency band : 1710 to 1755 MHz</b>									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	24.63	<b>28.62</b>	30	-1.38
				1	5	24.43	28.42	30	-1.58
				3	2	24.34	28.33	30	-1.67
				6	0	23.26	27.25	30	-2.75
	20175	1732.5	QPSK	1	0	23.80	27.79	30	-2.21
				1	5	23.96	27.95	30	-2.05
				3	2	23.69	27.68	30	-2.32
				6	0	22.69	26.68	30	-3.32
	20393	1754.3	QPSK	1	0	22.77	26.76	30	-3.24
				1	5	22.74	26.73	30	-3.27
				3	2	22.59	26.58	30	-3.42
				6	0	21.55	25.54	30	-4.46
1.4	19957	1710.7	16QAM	1	0	23.66	<b>27.65</b>	30	-2.35
				1	5	23.63	27.62	30	-2.38
				3	2	23.21	27.20	30	-2.8
				6	0	22.10	26.09	30	-3.91
	20175	1732.5	16QAM	1	0	23.17	27.16	30	-2.84
				1	5	23.29	27.28	30	-2.72
				3	2	22.71	26.70	30	-3.3
				6	0	21.80	25.79	30	-4.21
	20393	1754.3	16QAM	1	0	21.86	25.85	30	-4.15
				1	5	21.85	25.84	30	-4.16
				3	2	21.61	25.60	30	-4.4
				6	0	21.06	25.05	30	-4.95

Antenna gain (dBi)		3.99							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	24.36	<b>28.35</b>	30	-1.65
				1	14	24.13	28.12	30	-1.88
				8	4	23.21	27.20	30	-2.8
				15	0	23.18	27.17	30	-2.83
	20175	1732.5	QPSK	1	0	23.46	27.45	30	-2.55
				1	14	23.84	27.83	30	-2.17
				8	4	22.80	26.79	30	-3.21
				15	0	22.67	26.66	30	-3.34
	20385	1753.5	QPSK	1	0	22.69	26.68	30	-3.32
				1	14	22.53	26.52	30	-3.48
				8	4	21.58	25.57	30	-4.43
				15	0	21.56	25.55	30	-4.45
3	19965	1711.5	16QAM	1	0	23.62	<b>27.61</b>	30	-2.39
				1	14	23.48	27.47	30	-2.53
				8	4	22.20	26.19	30	-3.81
				15	0	22.17	26.16	30	-3.84
	20175	1732.5	16QAM	1	0	22.61	26.60	30	-3.4
				1	14	22.98	26.97	30	-3.03
				8	4	21.87	25.86	30	-4.14
				15	0	21.73	25.72	30	-4.28
	20385	1753.5	16QAM	1	0	21.85	25.84	30	-4.16
				1	14	21.75	25.74	30	-4.26
				8	4	20.54	24.53	30	-5.47
				15	0	20.59	24.58	30	-5.42



Antenna gain (dBi)		3.99							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	24.43	28.42	30	-1.58
				1	24	23.96	27.95	30	-2.05
				12	6	23.19	27.18	30	-2.82
				25	0	23.09	27.08	30	-2.92
	20175	1732.5	QPSK	1	0	23.30	27.29	30	-2.71
				1	24	23.91	27.90	30	-2.1
				12	6	22.73	26.72	30	-3.28
				25	0	22.64	26.63	30	-3.37
	20375	1752.5	QPSK	1	0	22.85	26.84	30	-3.16
				1	24	22.47	26.46	30	-3.54
				12	6	21.70	25.69	30	-4.31
				25	0	21.63	25.62	30	-4.38
5	19975	1712.5	16QAM	1	0	23.35	27.34	30	-2.66
				1	24	22.87	26.86	30	-3.14
				12	6	22.19	26.18	30	-3.82
				25	0	22.00	25.99	30	-4.01
	20175	1732.5	16QAM	1	0	22.47	26.46	30	-3.54
				1	24	23.10	27.09	30	-2.91
				12	6	21.78	25.77	30	-4.23
				25	0	21.68	25.67	30	-4.33
	20375	1752.5	16QAM	1	0	22.23	26.22	30	-3.78
				1	24	21.82	25.81	30	-4.19
				12	6	20.71	24.70	30	-5.3
				25	0	20.63	24.62	30	-5.38

Antenna gain (dBi)		3.99							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	24.40	<b>28.39</b>	30	-1.61
				1	49	23.13	27.12	30	-2.88
				25	12	22.79	26.78	30	-3.22
				50	0	22.61	26.60	30	-3.4
	20175	1732.5	QPSK	1	0	23.07	27.06	30	-2.94
				1	49	23.89	27.88	30	-2.12
				25	12	22.58	26.57	30	-3.43
				50	0	22.43	26.42	30	-3.58
	20350	1750	QPSK	1	0	23.21	27.20	30	-2.8
				1	49	22.35	26.34	30	-3.66
				25	12	21.85	25.84	30	-4.16
				50	0	21.75	25.74	30	-4.26
10	20000	1715	16QAM	1	0	23.29	<b>27.28</b>	30	-2.72
				1	49	22.26	26.25	30	-3.75
				25	12	21.79	25.78	30	-4.22
				50	0	21.60	25.59	30	-4.41
	20175	1732.5	16QAM	1	0	22.14	26.13	30	-3.87
				1	49	22.88	26.87	30	-3.13
				25	12	21.63	25.62	30	-4.38
				50	0	21.49	25.48	30	-4.52
	20350	1750	16QAM	1	0	22.20	26.19	30	-3.81
				1	49	21.33	25.32	30	-4.68
				25	12	20.83	24.82	30	-5.18
				50	0	20.72	24.71	30	-5.29

Antenna gain (dBi)		3.99							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	24.30	<b>28.29</b>	30	-1.71
				1	74	22.91	26.90	30	-3.1
				36	18	22.43	26.42	30	-3.58
				75	0	22.38	26.37	30	-3.63
	20175	1732.5	QPSK	1	0	22.99	26.98	30	-3.02
				1	74	23.93	27.92	30	-2.08
				36	18	22.57	26.56	30	-3.44
				75	0	22.40	26.39	30	-3.61
	20325	1747.5	QPSK	1	0	23.83	27.82	30	-2.18
				1	74	22.38	26.37	30	-3.63
				36	18	22.15	26.14	30	-3.86
				75	0	22.13	26.12	30	-3.88
15	20025	1717.5	16QAM	1	0	23.30	<b>27.29</b>	30	-2.71
				1	74	22.08	26.07	30	-3.93
				36	18	21.39	25.38	30	-4.62
				75	0	21.38	25.37	30	-4.63
	20175	1732.5	16QAM	1	0	22.34	26.33	30	-3.67
				1	74	23.16	27.15	30	-2.85
				36	18	21.63	25.62	30	-4.38
				75	0	21.45	25.44	30	-4.56
	20325	1747.5	16QAM	1	0	23.23	27.22	30	-2.78
				1	74	21.74	25.73	30	-4.27
				36	18	21.14	25.13	30	-4.87
				75	0	21.11	25.10	30	-4.9

Antenna gain (dBi)		3.99							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	24.40	28.39	30	-1.61
				1	99	22.97	26.96	30	-3.04
				50	25	22.17	26.16	30	-3.84
				100	0	22.16	26.15	30	-3.85
	20175	1732.5	QPSK	1	0	22.98	26.97	30	-3.03
				1	99	23.54	27.53	30	-2.47
				50	25	22.55	26.54	30	-3.46
				100	0	22.29	26.28	30	-3.72
	20300	1745	QPSK	1	0	24.00	27.99	30	-2.01
				1	99	22.38	26.37	30	-3.63
				50	25	22.45	26.44	30	-3.56
				100	0	22.37	26.36	30	-3.64
20	20050	1720	16QAM	1	0	23.54	27.53	30	-2.47
				1	99	22.36	26.35	30	-3.65
				50	25	21.15	25.14	30	-4.86
				100	0	21.16	25.15	30	-4.85
	20175	1732.5	16QAM	1	0	22.39	26.38	30	-3.62
				1	99	22.99	26.98	30	-3.02
				50	25	21.61	25.60	30	-4.4
				100	0	21.31	25.30	30	-4.7
	20300	1745	16QAM	1	0	23.11	27.10	30	-2.9
				1	99	21.52	25.51	30	-4.49
				50	25	21.42	25.41	30	-4.59
				100	0	21.33	25.32	30	-4.68

**LTE Band 5**

Antenna gain (dBi)		2.71								
LTE Band 5 Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	24.26	26.97	24.82	38.45	-13.63
				1	5	24.19	26.90	24.75	38.45	-13.70
				3	2	24.15	26.86	24.71	38.45	-13.74
				6	0	23.21	25.92	23.77	38.45	-14.68
	20525	836.5	QPSK	1	0	24.85	27.56	<b>25.41</b>	38.45	-13.04
				1	5	24.81	27.52	25.37	38.45	-13.08
				3	2	24.75	27.46	25.31	38.45	-13.14
				6	0	23.79	26.50	24.35	38.45	-14.10
	20643	848.3	QPSK	1	0	24.49	27.20	25.05	38.45	-13.40
				1	5	24.56	27.27	25.12	38.45	-13.33
				3	2	24.45	27.16	25.01	38.45	-13.44
				6	0	23.47	26.18	24.03	38.45	-14.42
1.4	20407	824.7	16QAM	1	0	23.42	26.13	23.98	38.45	-14.47
				1	5	23.36	26.07	23.92	38.45	-14.53
				3	2	23.22	25.93	23.78	38.45	-14.67
				6	0	22.43	25.14	22.99	38.45	-15.46
	20525	836.5	16QAM	1	0	24.09	26.80	24.65	38.45	-13.80
				1	5	24.00	26.71	24.56	38.45	-13.89
				3	2	23.84	26.55	24.40	38.45	-14.05
				6	0	23.02	25.73	23.58	38.45	-14.87
	20643	848.3	16QAM	1	0	23.99	26.70	24.55	38.45	-13.90
				1	5	24.15	26.86	<b>24.71</b>	38.45	-13.74
				3	2	23.52	26.23	24.08	38.45	-14.37
				6	0	22.42	25.13	22.98	38.45	-15.47

Antenna gain (dBi)		2.71								
LTE Band 5 Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	24.17	26.88	24.73	38.45	-13.72
				1	14	23.95	26.66	24.51	38.45	-13.94
				8	4	23.13	25.84	23.69	38.45	-14.76
				15	0	23.11	25.82	23.67	38.45	-14.78
	20525	836.5	QPSK	1	0	24.68	27.39	<b>25.24</b>	38.45	-13.21
				1	14	24.66	27.37	25.22	38.45	-13.23
				8	4	23.79	26.50	24.35	38.45	-14.10
				15	0	23.76	26.47	24.32	38.45	-14.13
	20635	847.5	QPSK	1	0	24.25	26.96	24.81	38.45	-13.64
				1	14	24.53	27.24	25.09	38.45	-13.36
				8	4	23.47	26.18	24.03	38.45	-14.42
				15	0	23.45	26.16	24.01	38.45	-14.44
3	20415	825.5	16QAM	1	0	23.31	26.02	23.87	38.45	-14.58
				1	14	23.12	25.83	23.68	38.45	-14.77
				8	4	22.26	24.97	22.82	38.45	-15.63
				15	0	22.29	25.00	22.85	38.45	-15.60
	20525	836.5	16QAM	1	0	23.75	26.46	<b>24.31</b>	38.45	-14.14
				1	14	23.68	26.39	24.24	38.45	-14.21
				8	4	22.94	25.65	23.50	38.45	-14.95
				15	0	22.80	25.51	23.36	38.45	-15.09
	20635	847.5	16QAM	1	0	23.31	26.02	23.87	38.45	-14.58
				1	14	23.65	26.36	24.21	38.45	-14.24
				8	4	22.54	25.25	23.10	38.45	-15.35
				15	0	22.47	25.18	23.03	38.45	-15.42

Antenna gain (dBi)		2.71								
LTE Band 5 Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	24.12	26.83	24.68	38.45	-13.77
				1	24	24.09	26.80	24.65	38.45	-13.80
				12	6	23.11	25.82	23.67	38.45	-14.78
				25	0	23.08	25.79	23.64	38.45	-14.81
	20525	836.5	QPSK	1	0	24.44	27.15	25.00	38.45	-13.45
				1	24	24.58	27.29	25.14	38.45	-13.31
				12	6	23.78	26.49	24.34	38.45	-14.11
				25	0	23.68	26.39	24.24	38.45	-14.21
	20625	846.5	QPSK	1	0	24.24	26.95	24.80	38.45	-13.65
				1	24	24.46	27.17	25.02	38.45	-13.43
				12	6	23.35	26.06	23.91	38.45	-14.54
				25	0	23.30	26.01	23.86	38.45	-14.59
5	20425	826.5	16QAM	1	0	23.40	26.11	23.96	38.45	-14.49
				1	24	23.30	26.01	23.86	38.45	-14.59
				12	6	22.12	24.83	22.68	38.45	-15.77
				25	0	22.09	24.80	22.65	38.45	-15.80
	20525	836.5	16QAM	1	0	23.91	26.62	24.47	38.45	-13.98
				1	24	23.94	26.65	24.50	38.45	-13.95
				12	6	22.82	25.53	23.38	38.45	-15.07
				25	0	22.70	25.41	23.26	38.45	-15.19
	20625	846.5	16QAM	1	0	23.61	26.32	24.17	38.45	-14.28
				1	24	24.00	26.71	24.56	38.45	-13.89
				12	6	22.48	25.19	23.04	38.45	-15.41
				25	0	22.38	25.09	22.94	38.45	-15.51

Antenna gain (dBi)		2.71								
LTE Band 5 Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	23.87	26.58	24.43	38.45	-14.02
				1	49	24.23	26.94	24.79	38.45	-13.66
				25	12	22.97	25.68	23.53	38.45	-14.92
				50	0	22.93	25.64	23.49	38.45	-14.96
	20525	836.5	QPSK	1	0	24.12	26.83	24.68	38.45	-13.77
				1	49	24.16	26.87	24.72	38.45	-13.73
				25	12	23.64	26.35	24.20	38.45	-14.25
				50	0	23.44	26.15	24.00	38.45	-14.45
	20600	844	QPSK	1	0	24.28	26.99	24.84	38.45	-13.61
				1	49	24.20	26.91	24.76	38.45	-13.69
				25	12	23.19	25.90	23.75	38.45	-14.70
				50	0	23.10	25.81	23.66	38.45	-14.79
10	20450	829	16QAM	1	0	23.41	26.12	23.97	38.45	-14.48
				1	49	23.69	26.40	24.25	38.45	-14.20
				25	12	22.03	24.74	22.59	38.45	-15.86
				50	0	21.98	24.69	22.54	38.45	-15.91
	20525	836.5	16QAM	1	0	23.63	26.34	24.19	38.45	-14.26
				1	49	23.77	26.48	24.33	38.45	-14.12
				25	12	22.73	25.44	23.29	38.45	-15.16
				50	0	22.53	25.24	23.09	38.45	-15.36
	20600	844	16QAM	1	0	23.58	26.29	24.14	38.45	-14.31
				1	49	23.46	26.17	24.02	38.45	-14.43
				25	12	22.33	25.04	22.89	38.45	-15.56
				50	0	22.25	24.96	22.81	38.45	-15.64



**LTE Band 7**

Antenna gain (dBi)		3.21							
LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20775	2502.5	QPSK	1	0	22.07	25.28	33	-7.72
				1	24	23.17	26.38	33	-6.62
				12	6	22.19	25.40	33	-7.6
				25	0	22.11	25.32	33	-7.68
	21100	2535	QPSK	1	0	23.76	26.97	33	-6.03
				1	24	23.55	26.76	33	-6.24
				12	6	22.68	25.89	33	-7.11
				25	0	22.61	25.82	33	-7.18
	21425	2567.5	QPSK	1	0	23.98	<b>27.19</b>	33	-5.81
				1	24	23.18	26.39	33	-6.61
				12	6	22.65	25.86	33	-7.14
				25	0	22.53	25.74	33	-7.26
5	20775	2502.5	16QAM	1	0	22.34	25.55	33	-7.45
				1	24	22.37	25.58	33	-7.42
				12	6	21.22	24.43	33	-8.57
				25	0	21.16	24.37	33	-8.63
	21100	2535	16QAM	1	0	22.90	26.11	33	-6.89
				1	24	22.67	25.88	33	-7.12
				12	6	21.76	24.97	33	-8.03
				25	0	21.71	24.92	33	-8.08
	21425	2567.5	16QAM	1	0	22.91	<b>26.12</b>	33	-6.88
				1	24	22.35	25.56	33	-7.44
				12	6	21.60	24.81	33	-8.19
				25	0	21.54	24.75	33	-8.25

Antenna gain (dBi)		3.21							
LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20800	2505	QPSK	1	0	23.02	26.23	33	-6.77
				1	49	23.22	26.43	33	-6.57
				25	12	22.10	25.31	33	-7.69
				50	0	21.96	25.17	33	-7.83
	21100	2535	QPSK	1	0	23.91	27.12	33	-5.88
				1	49	23.37	26.58	33	-6.42
				25	12	22.58	25.79	33	-7.21
				50	0	22.43	25.64	33	-7.36
	21400	2565	QPSK	1	0	24.06	27.27	33	-5.73
				1	49	23.00	26.21	33	-6.79
				25	12	22.81	26.02	33	-6.98
				50	0	22.65	25.86	33	-7.14
10	20800	2505	16QAM	1	0	21.95	25.16	33	-7.84
				1	49	22.21	25.42	33	-7.58
				25	12	21.10	24.31	33	-8.69
				50	0	20.98	24.19	33	-8.81
	21100	2535	16QAM	1	0	23.01	26.22	33	-6.78
				1	49	22.52	25.73	33	-7.27
				25	12	21.63	24.84	33	-8.16
				50	0	21.51	24.72	33	-8.28
	21400	2565	16QAM	1	0	23.30	26.51	33	-6.49
				1	49	22.42	25.63	33	-7.37
				25	12	21.83	25.04	33	-7.96
				50	0	21.70	24.91	33	-8.09

Antenna gain (dBi)		3.21							
<b>LTE Band 7_Uplink frequency band : 2500 to 2570 MHz</b>									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20825	2507.5	QPSK	1	0	22.90	26.11	33	-6.89
				1	74	23.61	26.82	33	-6.18
				36	18	22.08	25.29	33	-7.71
				75	0	22.07	25.28	33	-7.72
	21100	2535	QPSK	1	0	24.13	<b>27.34</b>	33	-5.66
				1	74	23.53	26.74	33	-6.26
				36	18	22.53	25.74	33	-7.26
				75	0	22.38	25.59	33	-7.41
	21375	2562.5	QPSK	1	0	24.12	27.33	33	-5.67
				1	74	23.11	26.32	33	-6.68
				36	18	23.07	26.28	33	-6.72
				75	0	22.89	26.10	33	-6.9
15	20825	2507.5	16QAM	1	0	22.27	25.48	33	-7.52
				1	74	22.98	26.19	33	-6.81
				36	18	21.13	24.34	33	-8.66
				75	0	21.09	24.30	33	-8.7
	21100	2535	16QAM	1	0	23.20	<b>26.41</b>	33	-6.59
				1	74	22.65	25.86	33	-7.14
				36	18	21.65	24.86	33	-8.14
				75	0	21.51	24.72	33	-8.28
	21375	2562.5	16QAM	1	0	23.05	26.26	33	-6.74
				1	74	22.04	25.25	33	-7.75
				36	18	22.07	25.28	33	-7.72
				75	0	22.05	25.26	33	-7.74

Antenna gain (dBi)		3.21							
LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20850	2510	QPSK	1	0	22.87	26.08	33	-6.92
				1	99	24.18	27.39	33	-5.61
				50	25	22.10	25.31	33	-7.69
				100	0	22.06	25.27	33	-7.73
	21100	2535	QPSK	1	0	24.09	27.30	33	-5.7
				1	99	23.55	26.76	33	-6.24
				50	25	22.46	25.67	33	-7.33
				100	0	22.30	25.51	33	-7.49
	21350	2560	QPSK	1	0	24.06	27.27	33	-5.73
				1	99	23.08	26.29	33	-6.71
				50	25	23.06	26.27	33	-6.73
				100	0	22.79	26.00	33	-7
20	20850	2510	QPSK	1	0	21.93	25.14	33	-7.86
				1	99	23.16	26.37	33	-6.63
				50	25	21.13	24.34	33	-8.66
				100	0	21.08	24.29	33	-8.71
	21100	2535	QPSK	1	0	23.43	26.64	33	-6.36
				1	99	22.93	26.14	33	-6.86
				50	25	21.54	24.75	33	-8.25
				100	0	21.37	24.58	33	-8.42
	21350	2560	QPSK	1	0	23.30	26.51	33	-6.49
				1	99	22.61	25.82	33	-7.18
				50	25	22.25	25.46	33	-7.54
				100	0	21.99	25.20	33	-7.8

**LTE Band 40**

Antenna gain (dBi)		4.9							
LTE Band 40_Uplink frequency band : 2300 to 2400 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	38725	2307.5	QPSK	1	0	24.03	28.93	33	-4.07
				1	24	23.92	28.82	33	-4.18
				12	6	23.22	28.12	33	-4.88
				25	0	23.13	28.03	33	-4.97
	38750	2310	QPSK	1	0	23.66	28.56	33	-4.44
				1	24	23.14	28.04	33	-4.96
				12	6	22.44	27.34	33	-5.66
	38775	2312.5	QPSK	25	0	22.35	27.25	33	-5.75
				1	0	23.27	28.17	33	-4.83
				1	24	22.82	27.72	33	-5.28
	38775	2312.5	QPSK	12	6	22.12	27.02	33	-5.98
				25	0	22.04	26.94	33	-6.06
				1	0	24.39	29.29	33	-3.71
	39175	2352.5	QPSK	1	24	24.38	29.28	33	-3.72
				12	6	23.70	28.60	33	-4.4
				25	0	23.71	28.61	33	-4.39
	39200	2355	QPSK	1	0	24.04	28.94	33	-4.06
				1	24	23.82	28.72	33	-4.28
				12	6	23.06	27.96	33	-5.04
	39200	2355	QPSK	25	0	23.01	27.91	33	-5.09
				1	0	24.00	28.90	33	-4.1
				1	24	23.91	28.81	33	-4.19
	39225	2357.5	QPSK	12	6	23.19	28.09	33	-4.91
				25	0	23.13	28.03	33	-4.97
1				0	23.10	28.00	33	-5	
5	38725	2307.5	16QAM	1	24	23.06	27.96	33	-5.04
				12	6	22.21	27.11	33	-5.89
				25	0	22.31	27.21	33	-5.79
				1	0	22.79	27.69	33	-5.31
	38750	2310	16QAM	1	24	22.30	27.20	33	-5.8
				12	6	21.71	26.61	33	-6.39
				25	0	21.63	26.53	33	-6.47
	38775	2312.5	16QAM	1	0	22.57	27.47	33	-5.53
				1	24	22.01	26.91	33	-6.09
				12	6	21.38	26.28	33	-6.72
	38775	2312.5	16QAM	25	0	21.31	26.21	33	-6.79
				1	0	23.57	28.47	33	-4.53
				1	24	23.62	28.52	33	-4.48
	39175	2352.5	16QAM	12	6	22.67	27.57	33	-5.43
				25	0	22.72	27.62	33	-5.38
				1	0	23.24	28.14	33	-4.86
	39200	2355	16QAM	1	24	23.03	27.93	33	-5.07
				12	6	22.27	27.17	33	-5.83
				25	0	22.21	27.11	33	-5.89
	39225	2357.5	16QAM	1	0	22.98	27.88	33	-5.12
				1	24	23.03	27.93	33	-5.07
				12	6	22.12	27.02	33	-5.98
	39225	2357.5	16QAM	25	0	22.25	27.15	33	-5.85

Antenna gain (dBi)		4.9							
LTE Band 40_Uplink frequency band : 2300 to 2400 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	38750	2310	QPSK	1	0	24.04	28.94	33	-4.06
				1	49	23.41	28.31	33	-4.69
				25	12	23.13	28.03	33	-4.97
				50	0	22.95	27.85	33	-5.15
	39200	2355	QPSK	1	0	24.31	29.21	33	-3.79
				1	49	24.54	<b>29.44</b>	33	-3.56
				25	12	23.80	28.70	33	-4.3
				50	0	23.70	28.60	33	-4.4
10	38750	2310	16QAM	1	0	23.21	28.11	33	-4.89
				1	49	22.48	27.38	33	-5.62
				25	12	22.28	27.18	33	-5.82
				50	0	22.07	26.97	33	-6.03
	39200	2355	16QAM	1	0	23.40	28.30	33	-4.7
				1	49	23.57	<b>28.47</b>	33	-4.53
				25	12	22.84	27.74	33	-5.26
				50	0	22.72	27.62	33	-5.38

**LTE Band 66**

Antenna gain (dBi)		4.15							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	131979	1710.7	QPSK	1	0	23.99	28.14	30	-1.86
				1	5	23.95	28.10	30	-1.9
				3	2	23.85	28.00	30	-2
				6	0	22.79	26.94	30	-3.06
	132322	1745	QPSK	1	0	23.45	27.60	30	-2.4
				1	5	23.36	27.51	30	-2.49
				3	2	23.30	27.45	30	-2.55
				6	0	22.41	26.56	30	-3.44
	132665	1779.3	QPSK	1	0	23.84	27.99	30	-2.01
				1	5	23.81	27.96	30	-2.04
				3	2	23.58	27.73	30	-2.27
				6	0	22.49	26.64	30	-3.36
1.4	131979	1710.7	16QAM	1	0	23.04	27.19	30	-2.81
				1	5	23.11	27.26	30	-2.74
				3	2	22.91	27.06	30	-2.94
				6	0	21.90	26.05	30	-3.95
	132322	1745	16QAM	1	0	22.61	26.76	30	-3.24
				1	5	22.58	26.73	30	-3.27
				3	2	22.44	26.59	30	-3.41
				6	0	21.53	25.68	30	-4.32
	132665	1779.3	16QAM	1	0	22.77	26.92	30	-3.08
				1	5	22.58	26.73	30	-3.27
				3	2	22.62	26.77	30	-3.23
				6	0	21.58	25.73	30	-4.27

Antenna gain (dBi)		4.15							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	131987	1711.5	QPSK	1	0	23.75	27.90	30	-2.1
				1	14	23.63	27.78	30	-2.22
				8	4	22.74	26.89	30	-3.11
				15	0	22.78	26.93	30	-3.07
	132322	1745	QPSK	1	0	23.35	27.50	30	-2.5
				1	14	23.05	27.20	30	-2.8
				8	4	22.35	26.50	30	-3.5
				15	0	22.39	26.54	30	-3.46
	132657	1778.5	QPSK	1	0	23.88	<b>28.03</b>	30	-1.97
				1	14	23.62	27.77	30	-2.23
				8	4	22.63	26.78	30	-3.22
				15	0	22.62	26.77	30	-3.23
3	131987	1711.5	16QAM	1	0	22.86	27.01	30	-2.99
				1	14	22.67	26.82	30	-3.18
				8	4	21.79	25.94	30	-4.06
				15	0	21.61	25.76	30	-4.24
	132322	1745	16QAM	1	0	22.58	26.73	30	-3.27
				1	14	22.35	26.50	30	-3.5
				8	4	21.37	25.52	30	-4.48
				15	0	21.34	25.49	30	-4.51
	132657	1778.5	16QAM	1	0	22.94	<b>27.09</b>	30	-2.91
				1	14	22.41	26.56	30	-3.44
				8	4	21.74	25.89	30	-4.11
				15	0	21.72	25.87	30	-4.13



Antenna gain (dBi)		4.15							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	131997	1712.5	QPSK	1	0	23.74	27.89	30	-2.11
				1	24	23.27	27.42	30	-2.58
				12	6	22.70	26.85	30	-3.15
				25	0	22.57	26.72	30	-3.28
	132322	1745	QPSK	1	0	23.33	27.48	30	-2.52
				1	24	22.93	27.08	30	-2.92
				12	6	22.34	26.49	30	-3.51
				25	0	22.29	26.44	30	-3.56
	132647	1777.5	QPSK	1	0	23.97	<b>28.12</b>	30	-1.88
				1	24	23.55	27.70	30	-2.3
				12	6	22.78	26.93	30	-3.07
				25	0	22.71	26.86	30	-3.14
5	131997	1712.5	16QAM	1	0	22.96	27.11	30	-2.89
				1	24	22.34	26.49	30	-3.51
				12	6	21.68	25.83	30	-4.17
				25	0	21.57	25.72	30	-4.28
	132322	1745	16QAM	1	0	22.50	26.65	30	-3.35
				1	24	21.93	26.08	30	-3.92
				12	6	21.24	25.39	30	-4.61
				25	0	21.18	25.33	30	-4.67
	132647	1777.5	16QAM	1	0	23.06	<b>27.21</b>	30	-2.79
				1	24	22.54	26.69	30	-3.31
				12	6	21.84	25.99	30	-4.01
				25	0	21.73	25.88	30	-4.12

Antenna gain (dBi)		4.15							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	132022	1715	QPSK	1	0	23.63	27.78	30	-2.22
				1	49	22.63	26.78	30	-3.22
				25	12	22.20	26.35	30	-3.65
				50	0	22.06	26.21	30	-3.79
	132322	1745	QPSK	1	0	23.35	27.50	30	-2.5
				1	49	22.57	26.72	30	-3.28
				25	12	22.26	26.41	30	-3.59
				50	0	22.16	26.31	30	-3.69
	132622	1775	QPSK	1	0	23.51	27.66	30	-2.34
				1	49	23.67	<b>27.82</b>	30	-2.18
				25	12	22.89	27.04	30	-2.96
				50	0	22.76	26.91	30	-3.09
10	132022	1715	16QAM	1	0	22.88	<b>27.03</b>	30	-2.97
				1	49	21.86	26.01	30	-3.99
				25	12	21.31	25.46	30	-4.54
				50	0	21.15	25.30	30	-4.7
	132322	1745	16QAM	1	0	22.60	26.75	30	-3.25
				1	49	21.83	25.98	30	-4.02
				25	12	21.34	25.49	30	-4.51
				50	0	21.15	25.30	30	-4.7
	132622	1775	16QAM	1	0	22.71	26.86	30	-3.14
				1	49	22.54	26.69	30	-3.31
				25	12	21.89	26.04	30	-3.96
				50	0	21.92	26.07	30	-3.93

Antenna gain (dBi)		4.15							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	132047	1717.5	QPSK	1	0	23.65	27.80	30	-2.2
				1	74	22.69	26.84	30	-3.16
				36	18	21.98	26.13	30	-3.87
				75	0	22.02	26.17	30	-3.83
	132322	1745	QPSK	1	0	23.51	27.66	30	-2.34
				1	74	22.45	26.60	30	-3.4
				36	18	22.26	26.41	30	-3.59
				75	0	22.17	26.32	30	-3.68
	132597	1772.5	QPSK	1	0	23.09	27.24	30	-2.76
				1	74	23.51	27.66	30	-2.34
				36	18	22.68	26.83	30	-3.17
				75	0	22.61	26.76	30	-3.24
15	132047	1717.5	16QAM	1	0	22.83	26.98	30	-3.02
				1	74	21.76	25.91	30	-4.09
				36	18	21.02	25.17	30	-4.83
				75	0	20.98	25.13	30	-4.87
	132322	1745	16QAM	1	0	22.76	26.91	30	-3.09
				1	74	21.78	25.93	30	-4.07
				36	18	21.47	25.62	30	-4.38
				75	0	21.31	25.46	30	-4.54
	132597	1772.5	16QAM	1	0	22.37	26.52	30	-3.48
				1	74	22.73	26.88	30	-3.12
				36	18	21.85	26.00	30	-4
				75	0	21.63	25.78	30	-4.22

Antenna gain (dBi)		4.15							
<b>LTE Band 66_Uplink frequency band : 1710 to 1780 MHz</b>									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	132072	1720	QPSK	1	0	23.60	27.75	30	-2.25
				1	99	22.77	26.92	30	-3.08
				50	25	21.73	25.88	30	-4.12
				100	0	21.78	25.93	30	-4.07
	132322	1745	QPSK	1	0	23.54	27.69	30	-2.31
				1	99	22.38	26.53	30	-3.47
				50	25	22.28	26.43	30	-3.57
				100	0	22.15	26.30	30	-3.7
	132572	1770	QPSK	1	0	22.45	26.60	30	-3.4
				1	99	23.72	<b>27.87</b>	30	-2.13
				50	25	22.44	26.59	30	-3.41
				100	0	22.14	26.29	30	-3.71
20	132072	1720	16QAM	1	0	22.73	26.88	30	-3.12
				1	99	21.94	26.09	30	-3.91
				50	25	20.75	24.90	30	-5.1
				100	0	20.78	24.93	30	-5.07
	132322	1745	16QAM	1	0	22.77	26.92	30	-3.08
				1	99	21.51	25.66	30	-4.34
				50	25	21.33	25.48	30	-4.52
				100	0	21.26	25.41	30	-4.59
	132572	1770	16QAM	1	0	21.48	25.63	30	-4.37
				1	99	22.86	<b>27.01</b>	30	-2.99
				50	25	21.56	25.71	30	-4.29
				100	0	21.26	25.41	30	-4.59

## 8.2 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

### LIMIT

**According to FCC §2.1055, FCC §22.355, FCC §24.235, FCC §27.54.**

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

### TEST CONFIGURATION

Use Anritsu 8820 with frequency Error measurement capability.

Temp = -30°C to +50°C

Voltage= 85% to 115% of the nominal value for AC powered equipment.

*NOTE: The frequency error was recorded frequency error from the communication simulator.*

### TEST RESULTS

Compliance.

**Temperature:** 22.3 ~ 25.6°C

**Test date:** October 24 ~ 27, 2023

**Humidity:** 55 ~ 57% RH

**Tested by:** Marco Chan

**FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT:**

Reference Freq.:		LTE B2 Mid Channel		1880.0000	MHz 10M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
<b>Freq. ERROR vs. VOLTAGE</b>					
126.5	25	1879.999990	-0.0051	+/- 2.5 ppm	
110	25	1879.999994	-0.0030		
93.5	25	1879.999997	-0.0018		
25.4 (End Point)	25	1879.999996	-0.0019		
<b>Freq. ERROR vs. Temp.</b>					
110	-30	1879.999997	-0.0015	+/- 2.5 ppm	
110	-20	1879.999979	-0.0111		
110	-10	1879.999978	-0.0119		
110	0	1879.999960	-0.0215		
110	10	1879.999990	-0.0055		
110	20	1879.999967	-0.0174		
110	30	1879.999978	-0.0118		
110	40	1879.999978	-0.0116		
110	50	1880.000000	0.0002		

Reference Freq.:		LTE B4 Mid Channel		1732.5000	MHz 10M QPSK CH 20175
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
<b>Freq. ERROR vs. VOLTAGE</b>					
126.5	25	1732.499980	-0.0116	+/- 2.5 ppm	
110	25	1732.499978	-0.0127		
93.5	25	1732.499977	-0.0133		
25.4 (End Point)	25	1732.499981	-0.0109		
<b>Freq. ERROR vs. Temp.</b>					
110	-30	1732.499989	-0.0066	+/- 2.5 ppm	
110	-20	1732.499999	-0.0004		
110	-10	1732.499988	-0.0067		
110	0	1732.499977	-0.0135		
110	10	1732.499978	-0.0126		
110	20	1732.499954	-0.0263		
110	30	1732.499986	-0.0084		
110	40	1732.499981	-0.0111		
110	50	1732.499999	-0.0005		

Reference Freq.:		LTE B5 Mid Channel		836.5000	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
<b>Freq. ERROR vs. VOLTAGE</b>					
126.5	25	836.500002	0.0026	+/- 2.5 ppm	
110	25	836.499998	-0.0024		
93.5	25	836.500000	0.0000		
25.4 (End Point)	25	836.500001	0.0012		
<b>Freq. ERROR vs. Temp.</b>					
110	-30	836.499990	-0.0116	+/- 2.5 ppm	
110	-20	836.499986	-0.0172		
110	-10	836.499995	-0.0063		
110	0	836.499989	-0.0134		
110	10	836.499975	-0.0304		
110	20	836.499982	-0.0212		
110	30	836.499970	-0.0355		
110	40	836.499974	-0.0312		
110	50	836.499983	-0.0200		



Reference Freq.:		LTE B7 Mid Channel		2535.0000	MHz 10M QPSK CH 21100
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
<b>Freq. ERROR vs. VOLTAGE</b>					
126.5	25	2534.999963	-0.0147	+/- 2.5 ppm	
110	25	2535.000003	0.0012		
93.5	25	2534.999987	-0.0052		
25.4 (End Point)	25	2534.999975	-0.0099		
<b>Freq. ERROR vs. Temp.</b>					
110	-30	2534.999988	-0.0049	+/- 2.5 ppm	
110	-20	2535.000032	0.0124		
110	-10	2534.999978	-0.0085		
110	0	2534.999959	-0.0162		
110	10	2534.999980	-0.0078		
110	20	2534.999981	-0.0075		
110	30	2534.999971	-0.0114		
110	40	2534.999967	-0.0130		
110	50	2534.999996	-0.0015		

Reference Freq.:		LTE B40 Mid Channel		2310.0000	MHz 10M QPSK CH 38750
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
<b>Freq. ERROR vs. VOLTAGE</b>					
126.5	25	2309.999967	-0.0191	+/- 2.5 ppm	
110	25	2309.999958	-0.0241		
93.5	25	2309.999988	-0.0069		
25.4 (End Point)	25	2309.999981	-0.0107		
<b>Freq. ERROR vs. Temp.</b>					
110	-30	2309.999970	-0.0171	+/- 2.5 ppm	
110	-20	2309.999993	-0.0042		
110	-10	2309.999993	-0.0041		
110	0	2309.999975	-0.0146		
110	10	2309.999976	-0.0140		
110	20	2309.999981	-0.0107		
110	30	2309.999966	-0.0195		
110	40	2309.999990	-0.0056		
110	50	2310.000007	0.0038		

Reference Freq.:		LTE B66 Mid Channel		1745.0000	MHz 10M QPSK CH 132322
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
<b>Freq. ERROR vs. VOLTAGE</b>					
126.5	25	1744.999989	-0.0061	+/- 2.5 ppm	
110	25	1744.999988	-0.0068		
93.5	25	1745.000005	0.0026		
25.4 (End Point)	25	1744.999985	-0.0084		
<b>Freq. ERROR vs. Temp.</b>					
110	-30	1744.999969	-0.0178	+/- 2.5 ppm	
110	-20	1745.000006	0.0032		
110	-10	1744.999981	-0.0109		
110	0	1744.999989	-0.0061		
110	10	1745.000003	0.0017		
110	20	1744.999992	-0.0046		
110	30	1744.999982	-0.0101		
110	40	1745.000005	0.0028		
110	50	1744.999988	-0.0071		

## 8.3 OCCUPIED BANDWIDTH MEASUREMENT

### LIMITS

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

### TEST PROCEDURE

KDB 971168 D01

1. The occupied bandwidth was measured with the spectrum analyzer at the lowest, middle and highest channels in each band and different modulation. The 99% and -26dB bandwidth was measured and recorded.
2. RBW = 1-5% of the expected OBW
3. VBW  $\geq$  3 x RBW
4. Detector = Peak
5. Trace mode = max. hold

### TEST RESULTS

Compliance

**Temperature:** 22.3 ~ 25.6°C

**Test date:** October 24 ~ 27, 2023

**Humidity:** 55 ~ 57% RH

**Tested by:** Marco Chan

### LTE Band 2

LTE BAND 2 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.0906	1.0939	1.256	1.267
1880.0	18900	1.0913	1.0946	1.261	1.269
1909.3	19193	<b>1.0944</b>	<b>1.0978</b>	<b>1.273</b>	<b>1.339</b>

LTE BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	18615	<b>2.6871</b>	<b>2.6886</b>	2.893	2.895
1880.0	18900	2.6849	2.6872	2.899	2.892
1908.5	19185	<b>2.6871</b>	<b>2.6886</b>	<b>2.905</b>	<b>2.903</b>

LTE BAND 2 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	18625	4.4663	4.4713	<b>4.816</b>	4.829
1880.0	18900	4.4692	4.4714	4.806	4.837
1907.5	19175	<b>4.4714</b>	<b>4.4736</b>	4.779	<b>4.843</b>

LTE BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	18650	8.9521	<b>8.9778</b>	<b>9.602</b>	<b>9.620</b>
1880.0	18900	8.9487	8.9761	9.593	9.589
1905.0	19150	<b>8.9711</b>	8.9698	9.590	9.607

LTE BAND 2 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	18675	13.4580	13.4280	14.360	14.330
1880.0	18900	<b>13.4630</b>	<b>13.4540</b>	<b>14.430</b>	<b>14.360</b>
1902.5	19125	13.4500	13.4510	14.250	<b>14.360</b>

LTE BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	18700	17.8920	17.8490	<b>19.430</b>	19.410
1880.0	18900	<b>17.9060</b>	<b>17.8900</b>	19.310	<b>19.420</b>
1900.0	19100	17.9010	17.8460	19.380	19.350

### LTE Band 4

LTE BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	<b>1.0928</b>	<b>1.0933</b>	1.251	1.257
1732.5	20175	1.0911	1.0928	<b>1.257</b>	1.258
1754.3	20393	1.0898	1.0920	1.253	<b>1.259</b>

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.6864	2.6864	<b>2.899</b>	<b>2.901</b>
1732.5	20175	<b>2.6886</b>	2.6869	2.898	2.890
1753.5	20385	2.6858	<b>2.6876</b>	2.897	2.898

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	19975	4.4670	4.4721	4.812	4.817
1732.5	20175	4.4659	4.4677	4.804	4.812
1752.5	20375	<b>4.4704</b>	<b>4.4733</b>	<b>4.823</b>	<b>4.822</b>

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	<b>8.9677</b>	<b>8.9731</b>	9.583	9.597
1732.5	20175	8.9574	8.9707	9.580	<b>9.614</b>
1750.0	20350	8.9638	8.9715	<b>9.590</b>	<b>9.614</b>

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.4530	13.4170	14.430	14.310
1732.5	20175	<b>13.4570</b>	<b>13.4280</b>	<b>14.440</b>	14.290
1747.5	20325	13.4400	13.4060	14.390	<b>14.350</b>

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	<b>17.9020</b>	<b>17.8910</b>	19.360	<b>19.480</b>
1732.5	20175	17.8970	17.8620	<b>19.370</b>	19.370
1745.0	20300	17.8760	17.8550	19.310	19.400

**LTE Band 5**

LTE BAND 5 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
824.7	20407	1.0900	1.0916	1.249	1.253
836.5	20525	<b>1.0904</b>	<b>1.0917</b>	<b>1.252</b>	<b>1.257</b>
848.3	20643	1.0886	1.0908	1.243	1.254

LTE BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
825.5	20415	2.6841	2.6861	<b>2.900</b>	<b>2.890</b>
836.5	20525	2.6853	2.6834	2.898	2.870
847.5	20635	<b>2.6878</b>	<b>2.6876</b>	2.896	2.889

LTE BAND 5 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
826.5	20425	4.4700	<b>4.4735</b>	4.753	4.819
836.5	20525	4.4631	4.4684	<b>4.814</b>	<b>4.823</b>
846.5	20625	<b>4.4821</b>	4.4730	4.789	<b>4.823</b>

LTE BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
829.0	20450	8.9648	<b>8.9845</b>	9.591	9.596
836.5	20525	8.9542	8.9615	9.579	9.621
844.0	20600	<b>8.9749</b>	8.9699	<b>9.596</b>	<b>9.622</b>

**LTE Band 7**

LTE BAND 7 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2502.5	20775	4.4648	<b>4.4738</b>	4.817	4.825
2535.0	21100	4.4666	4.4729	<b>4.823</b>	4.818
2567.5	21425	<b>4.4690</b>	4.4686	4.761	<b>4.834</b>

LTE BAND 7 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2505.0	20800	<b>8.9687</b>	<b>9.0042</b>	9.585	9.481
2535.0	21100	8.9635	8.9697	9.604	<b>9.589</b>
2565.0	21400	8.9554	8.9872	<b>9.605</b>	9.577

LTE BAND 7 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2507.5	20825	<b>13.5320</b>	13.4310	14.200	14.340
2535.0	21100	13.4490	<b>13.5210</b>	<b>14.410</b>	14.150
2562.5	21375	13.4090	13.4330	14.320	<b>14.360</b>

LTE BAND 7 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2510.0	20850	<b>17.9130</b>	<b>17.8980</b>	<b>19.380</b>	19.370
2535.0	21100	17.8910	17.8840	19.360	<b>19.490</b>
2560.0	21350	17.8800	17.8800	19.360	19.420

**LTE Band 40**

LTE BAND 40 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2307.5	38725	4.4731	4.4720	4.824	4.811
2310.0	38750	4.4717	<b>4.4741</b>	4.828	4.821
2312.5	38775	<b>4.4753</b>	4.4736	<b>4.843</b>	4.824
2352.5	39175	4.4740	4.4716	4.814	<b>4.828</b>
2355.0	39200	4.4730	4.4700	4.811	4.823
2357.5	39225	4.4737	4.4737	4.808	4.809

LTE BAND 40 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2310.0	37850	<b>8.9433</b>	<b>8.9337</b>	9.554	9.555
2355.0	39200	8.9309	8.9333	<b>9.617</b>	<b>9.568</b>

### LTE Band 66

LTE BAND 66 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	131979	1.0893	1.0935	1.247	1.258
1745.0	132322	<b>1.0932</b>	<b>1.0940</b>	<b>1.275</b>	<b>1.265</b>
1779.3	132665	1.0879	1.0926	1.256	1.260

LTE BAND 66 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	131987	<b>2.6876</b>	2.6872	2.900	<b>2.897</b>
1745.0	132322	2.6868	<b>2.6892</b>	<b>2.902</b>	<b>2.897</b>
1778.5	132657	2.6860	2.6789	2.897	2.870

LTE BAND 66 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	131997	4.4683	4.4688	4.802	4.828
1745.0	132322	<b>4.4711</b>	<b>4.4725</b>	<b>4.827</b>	<b>4.836</b>
1777.5	132647	4.4664	4.4703	4.825	4.825

LTE BAND 66 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	132022	8.9654	<b>8.9974</b>	9.584	9.377
1745.0	132322	<b>8.9664</b>	8.9764	9.578	<b>9.606</b>
1775.0	132622	8.9306	8.9668	<b>9.603</b>	9.603

LTE BAND 66 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	132047	13.4520	13.4440	<b>14.370</b>	<b>14.340</b>
1745.0	132322	<b>13.4670</b>	13.4190	<b>14.370</b>	14.320
1772.5	132597	13.4010	<b>13.5090</b>	14.310	14.110

LTE BAND 66 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	132072	<b>17.9010</b>	<b>18.0550</b>	<b>19.420</b>	18.840
1745.0	132322	17.8860	17.8600	19.350	<b>19.370</b>
1770.0	132572	17.8630	17.8540	19.340	19.360

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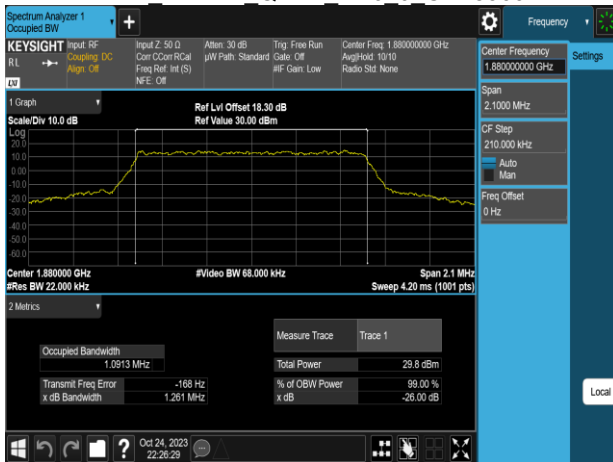
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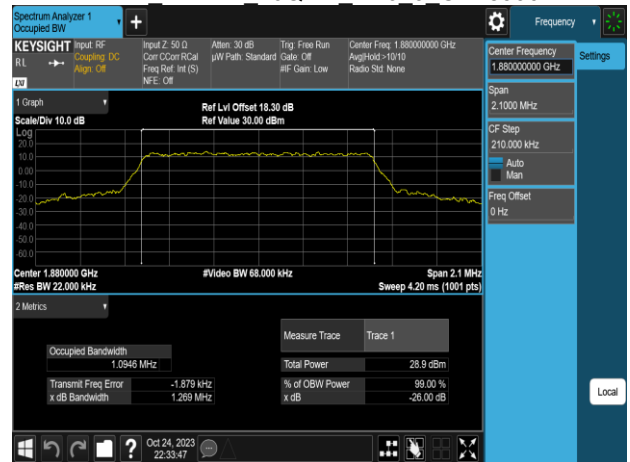
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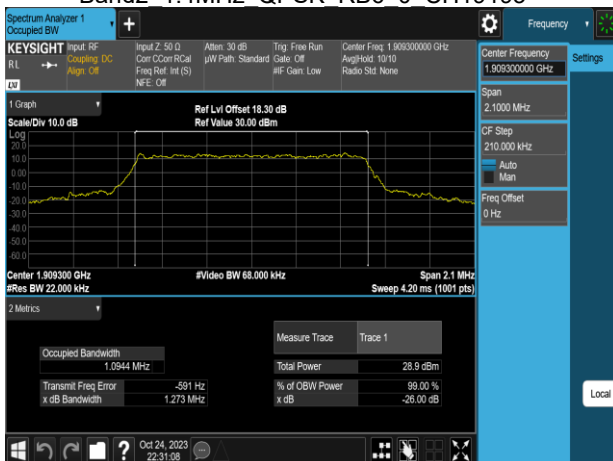
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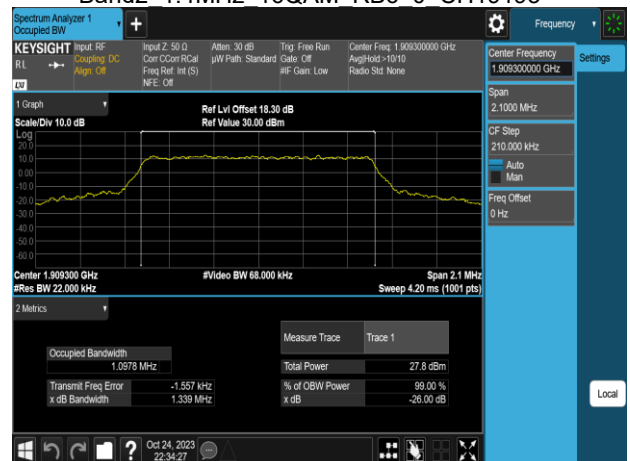
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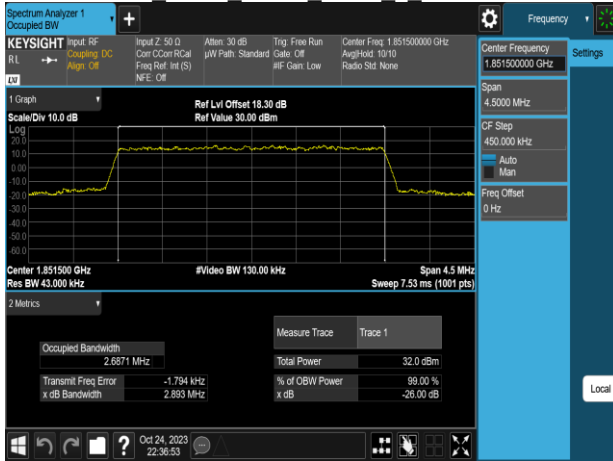


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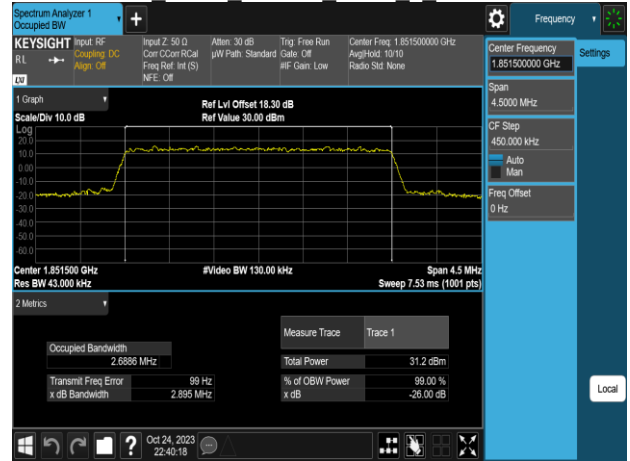




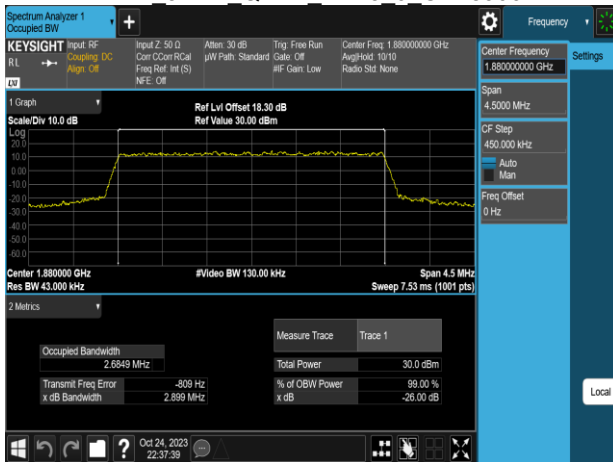
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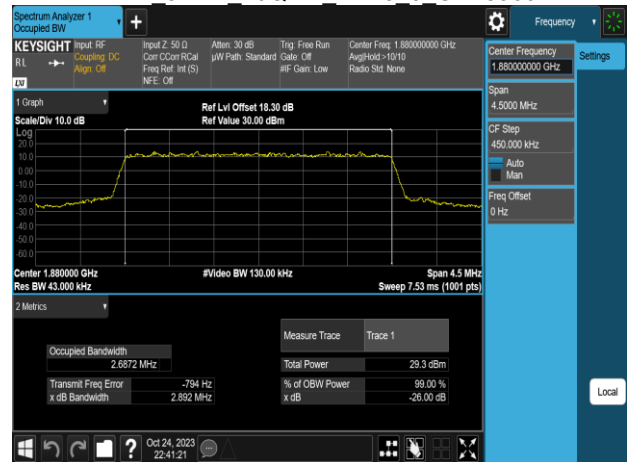
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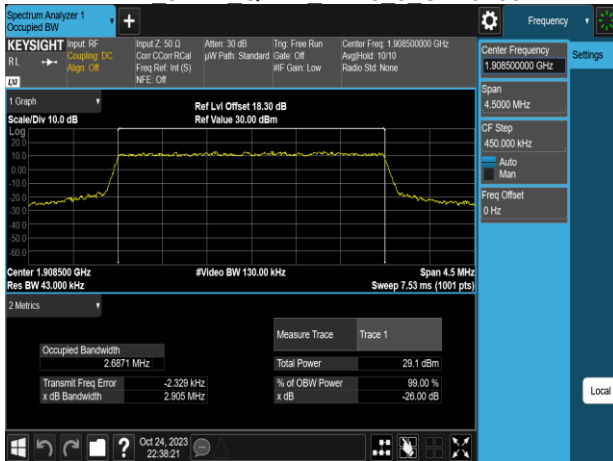
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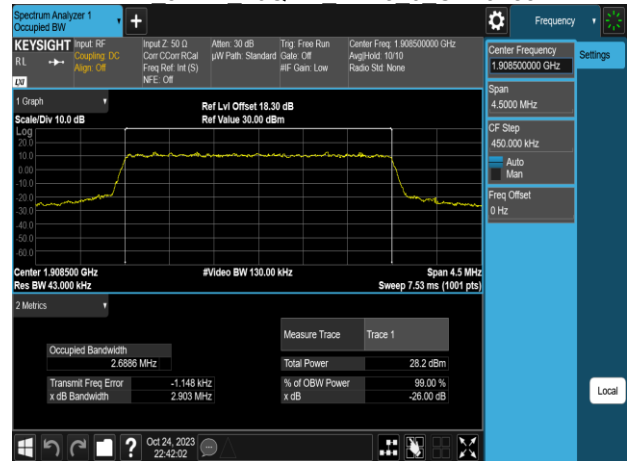
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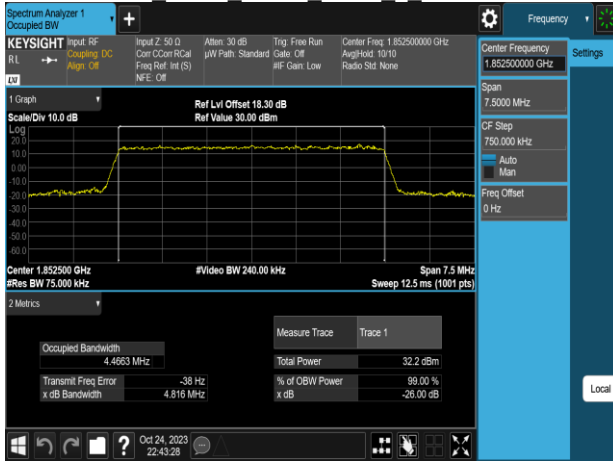


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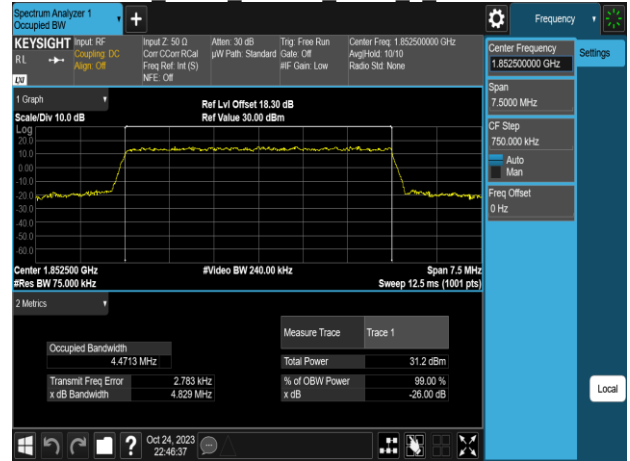


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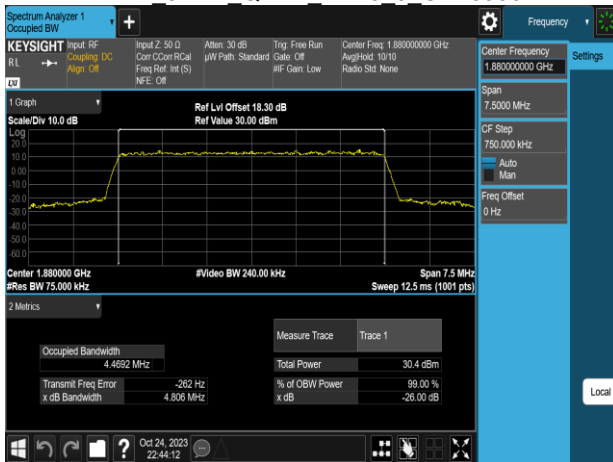
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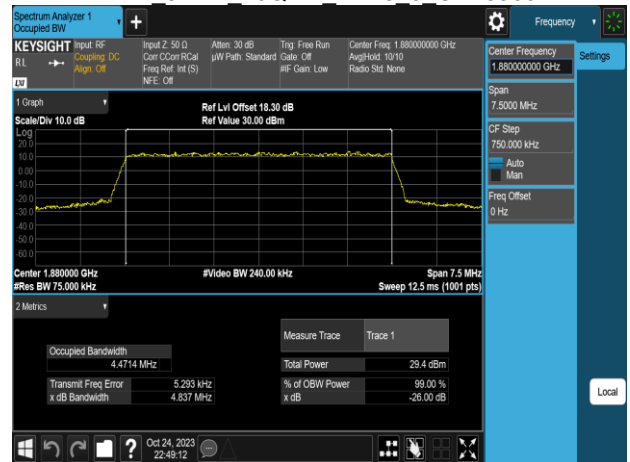
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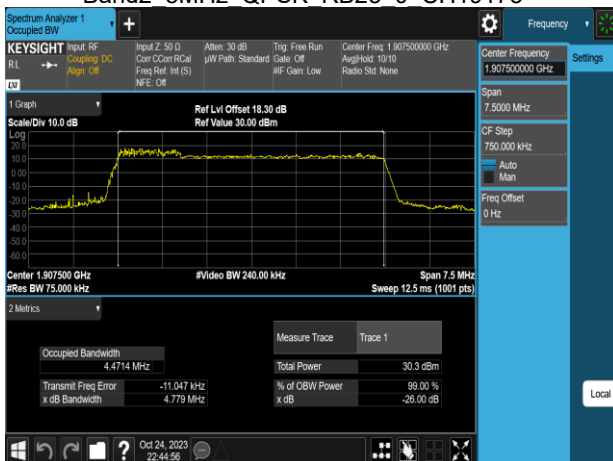
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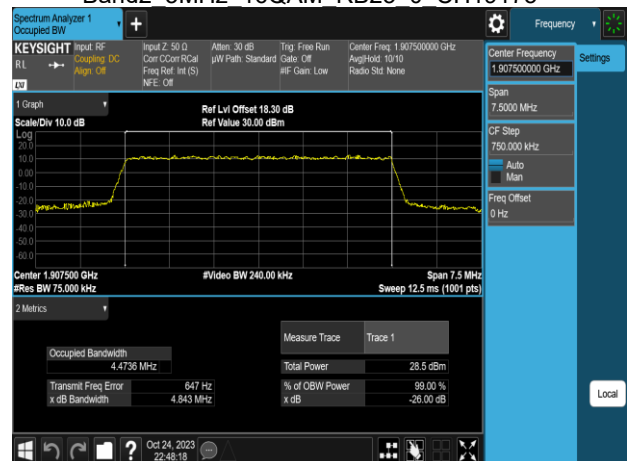
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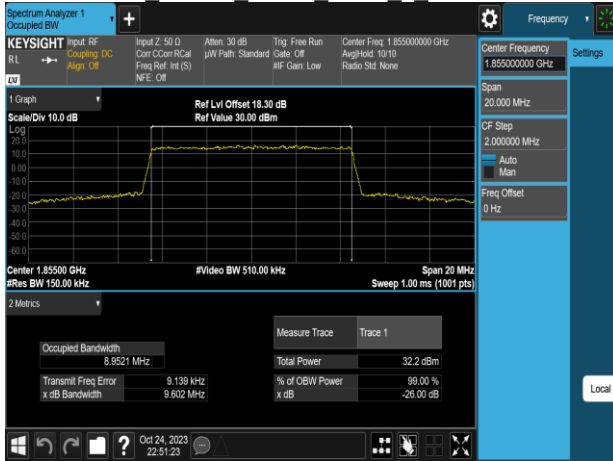


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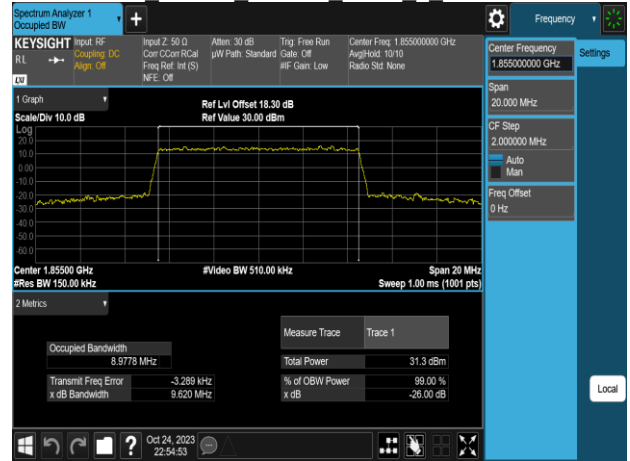


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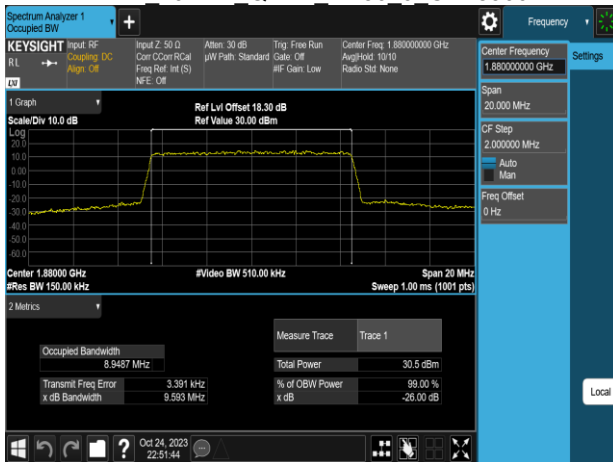
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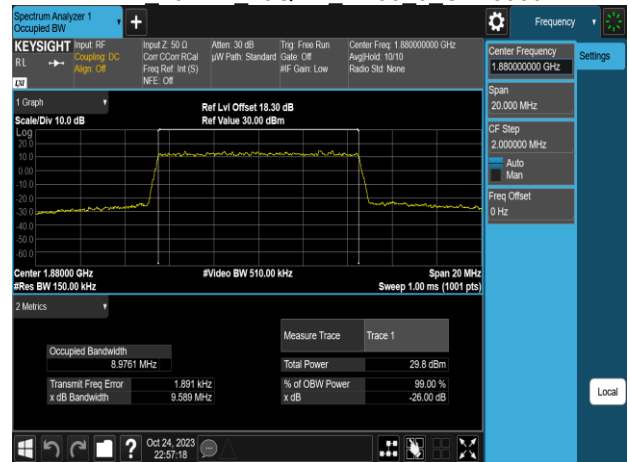
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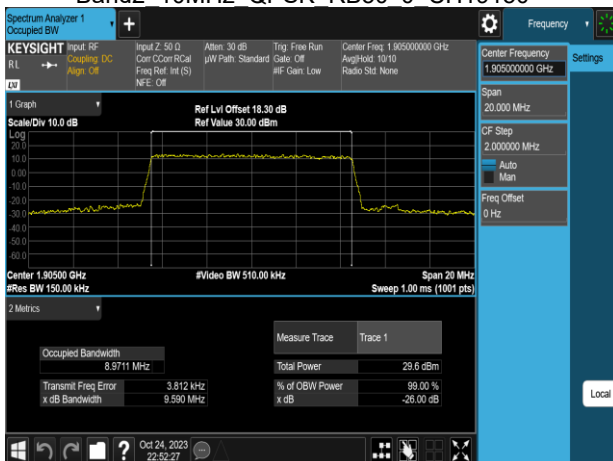
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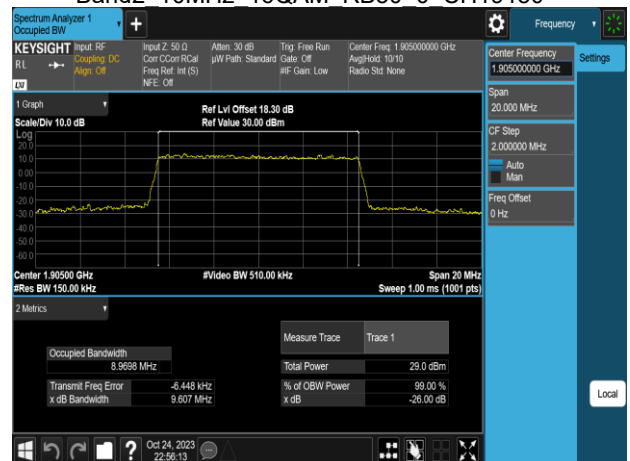
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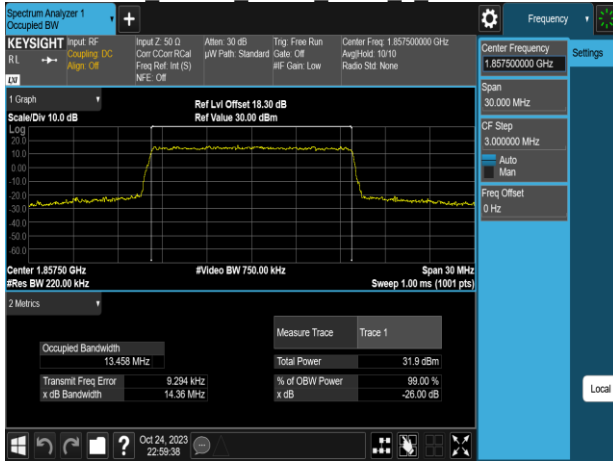
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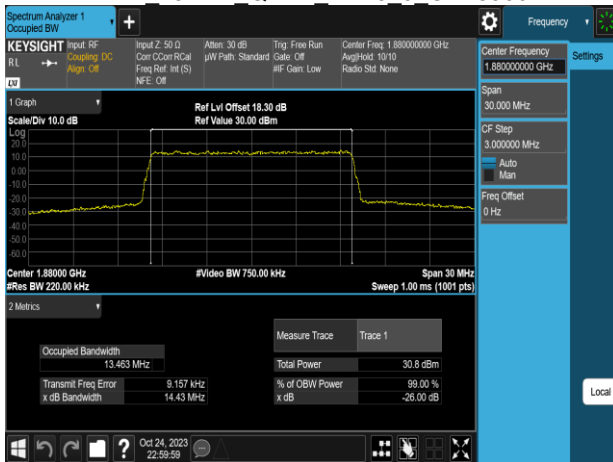
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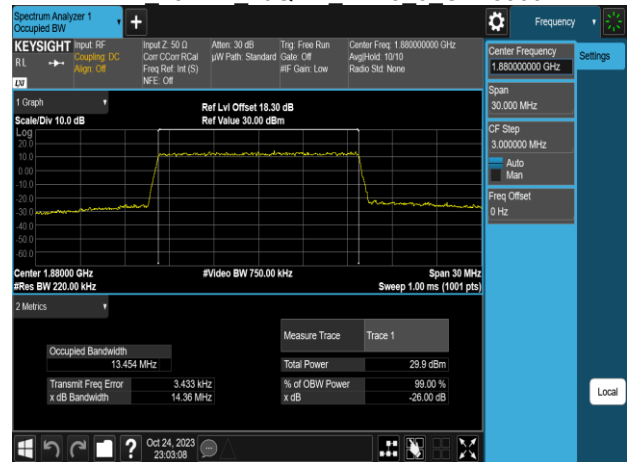
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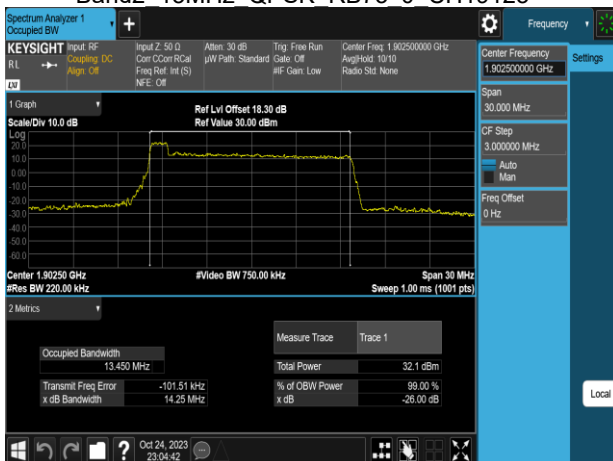
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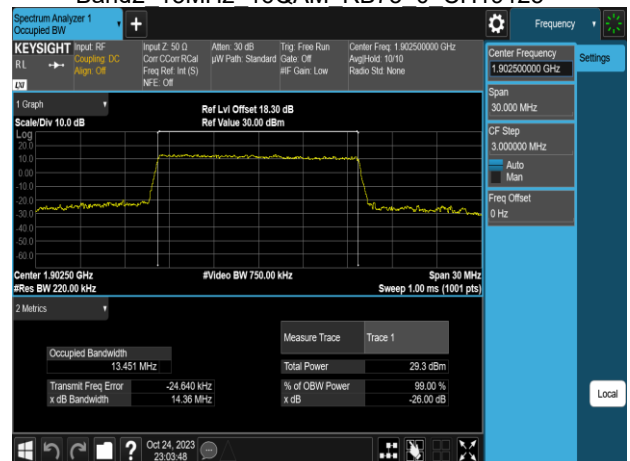
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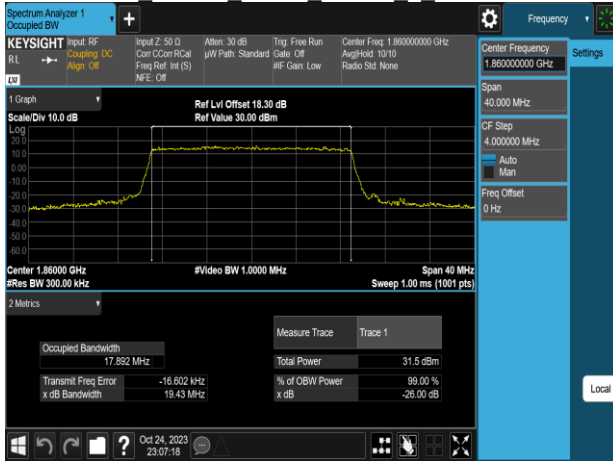


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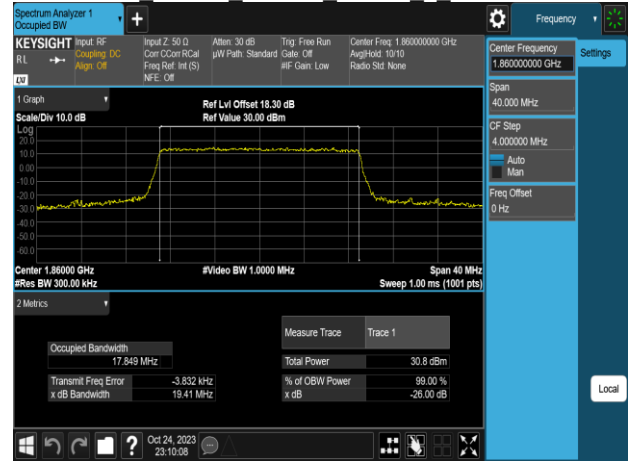


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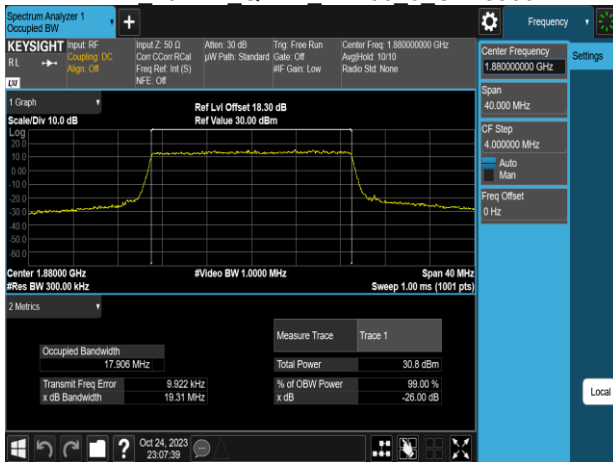
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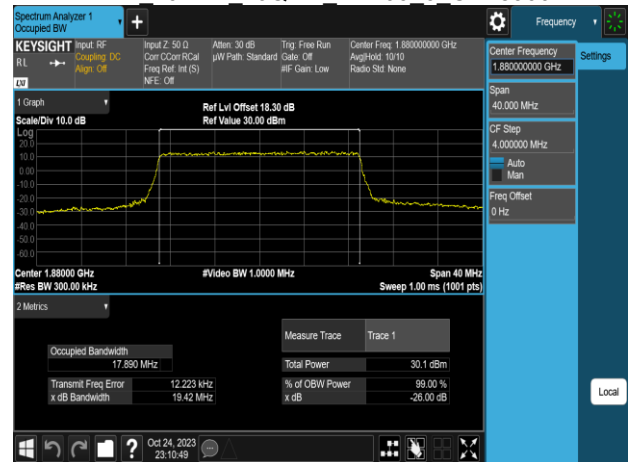
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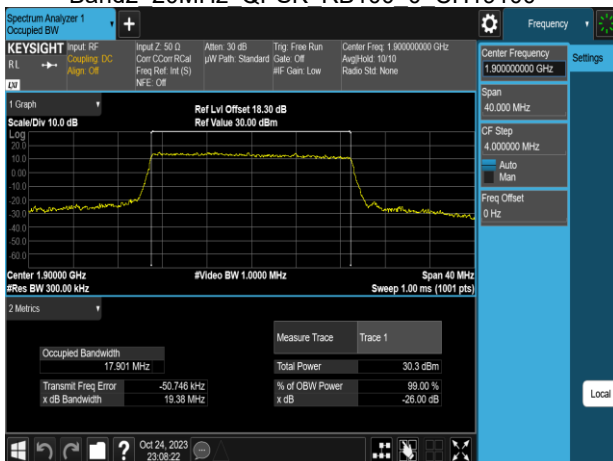
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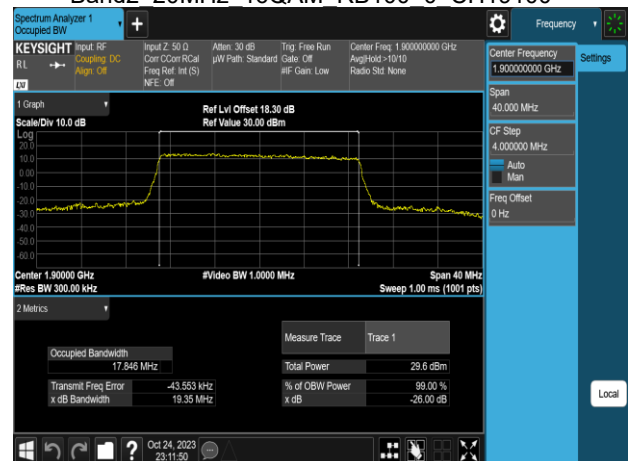
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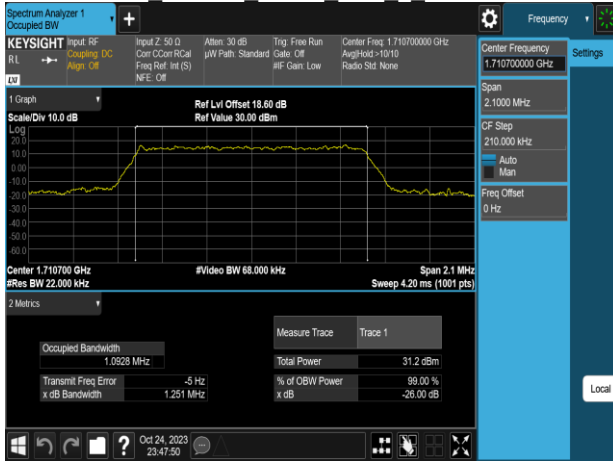


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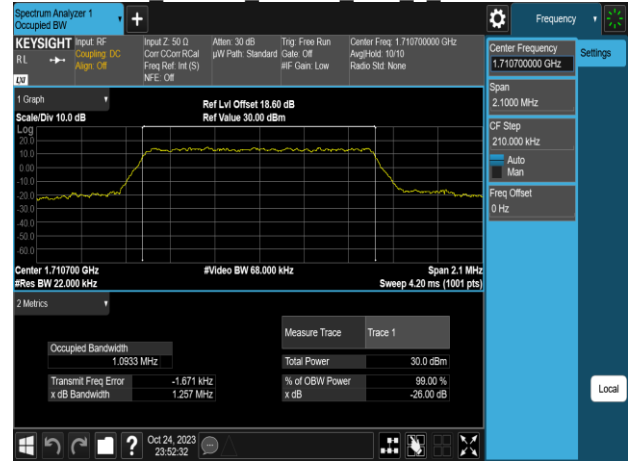


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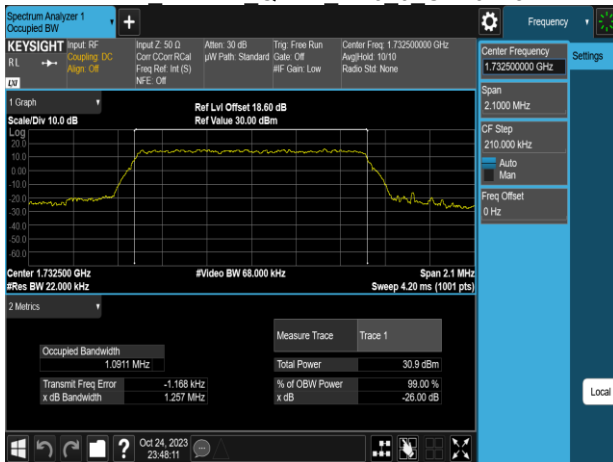
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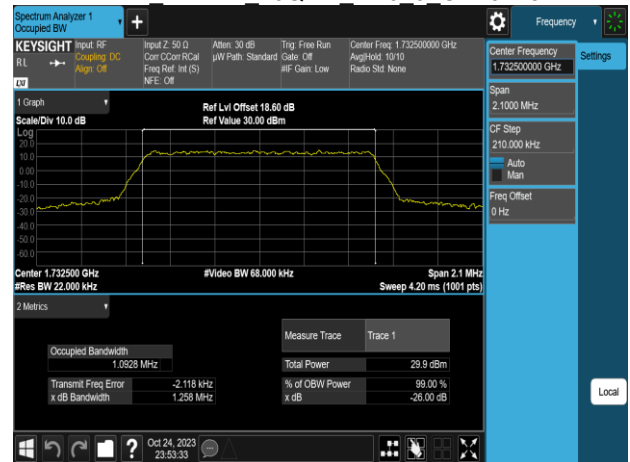
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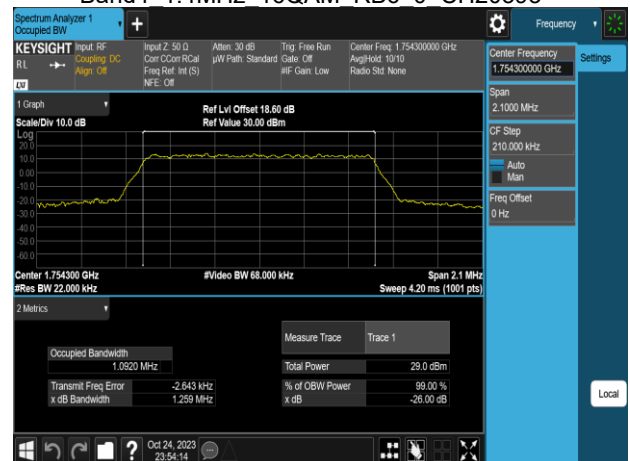
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Band4 1.4MHz QPSK RB6 0 CH20393

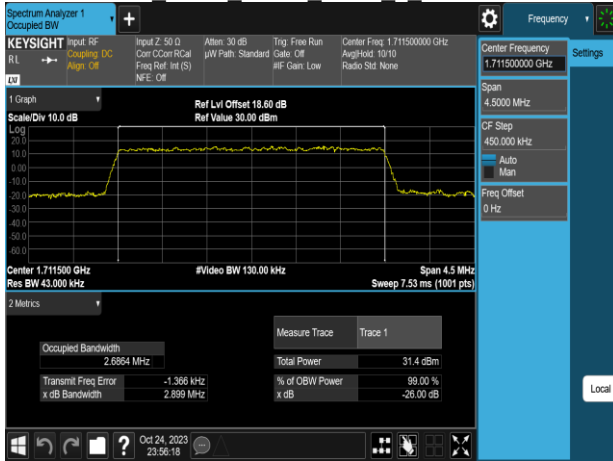


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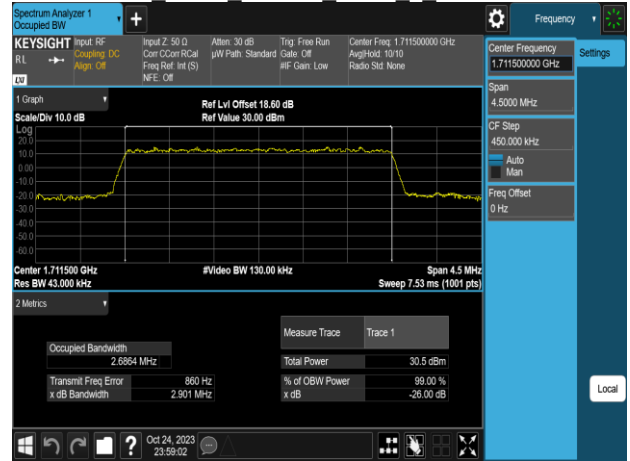


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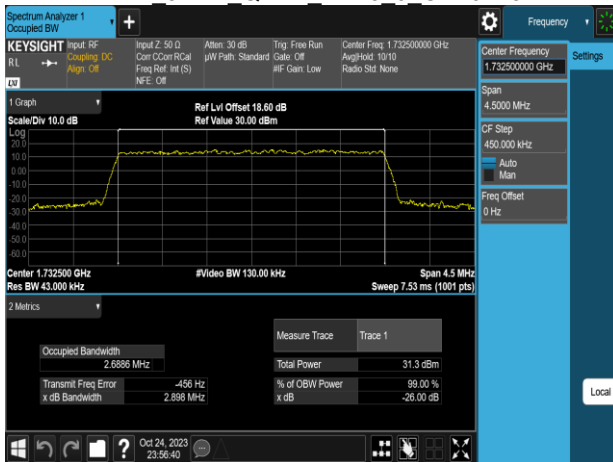
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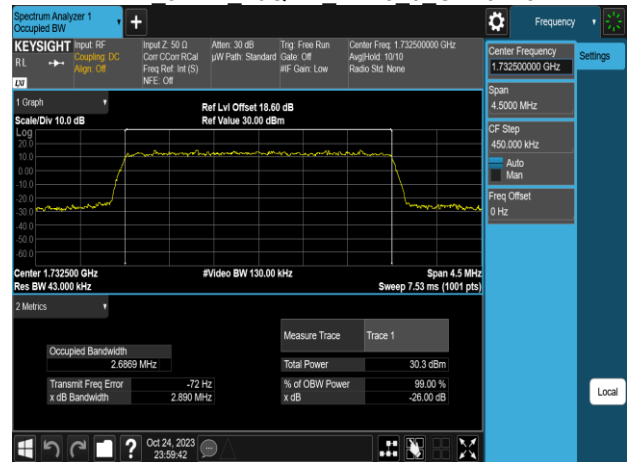
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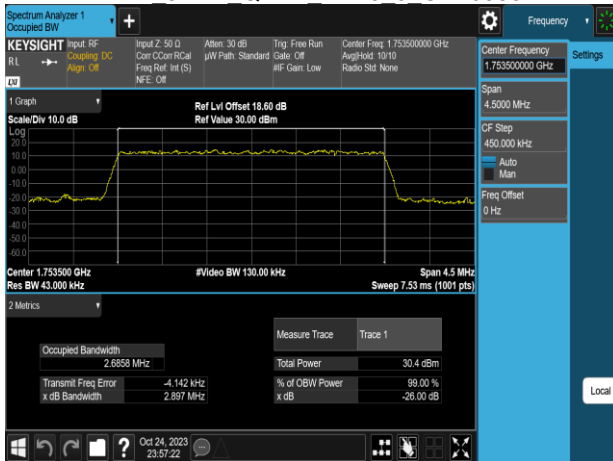
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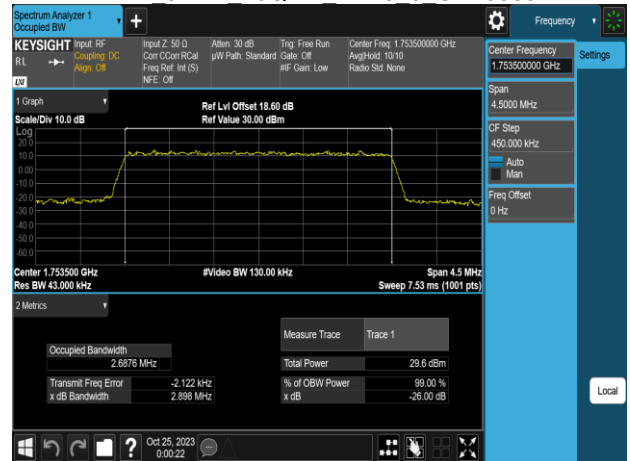
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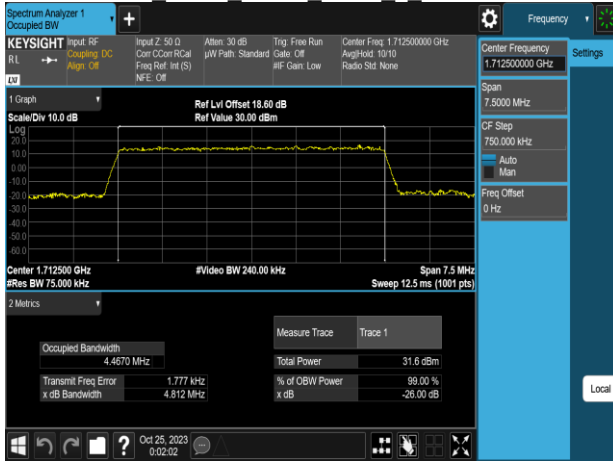


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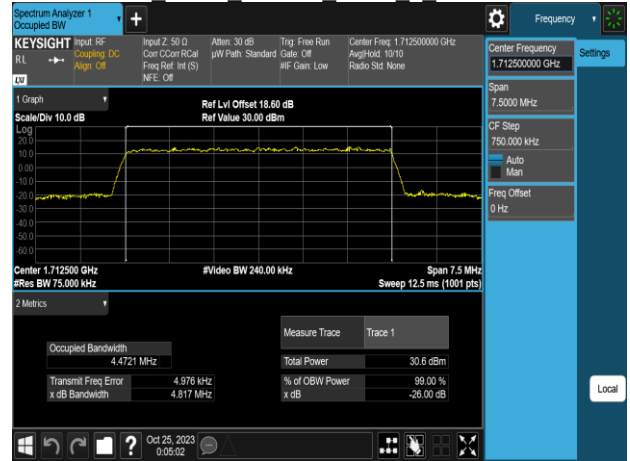


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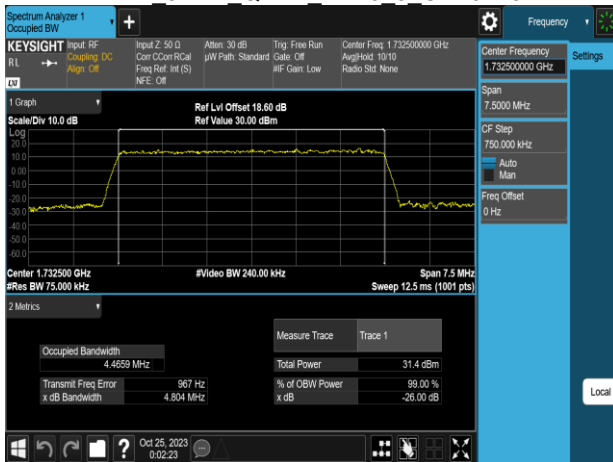
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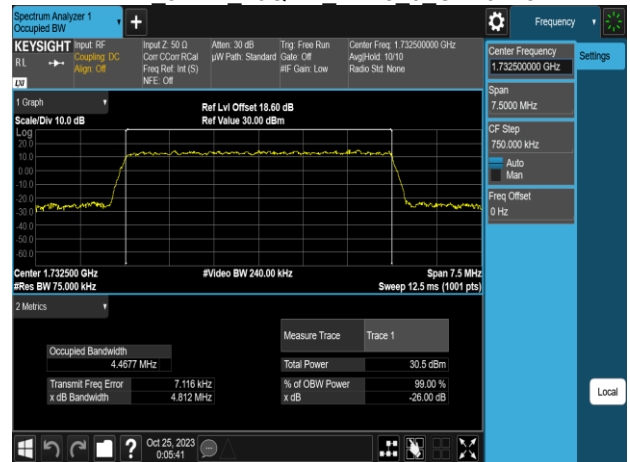
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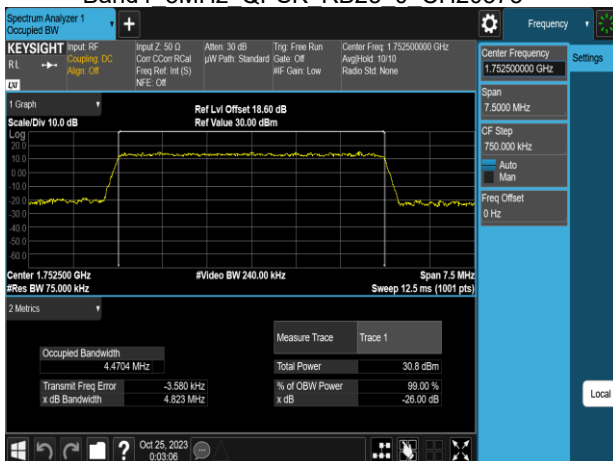
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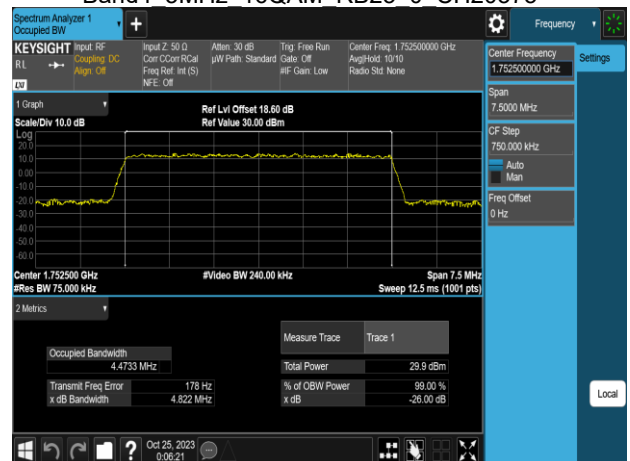
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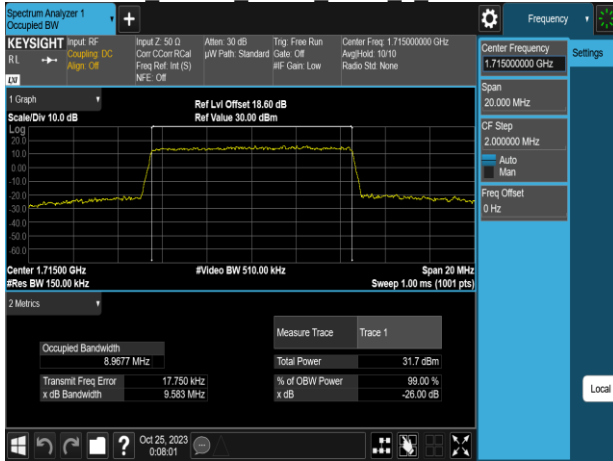
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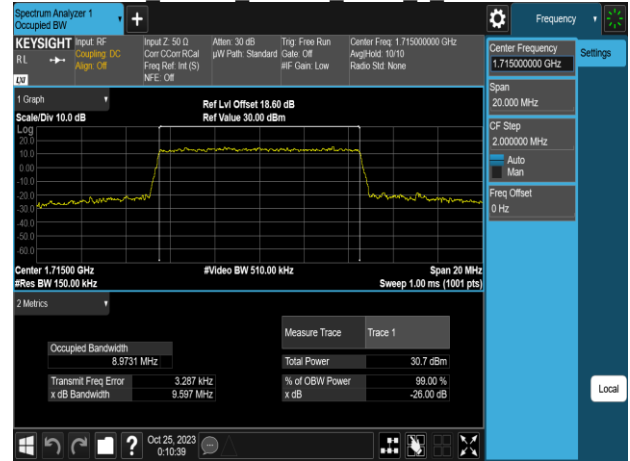


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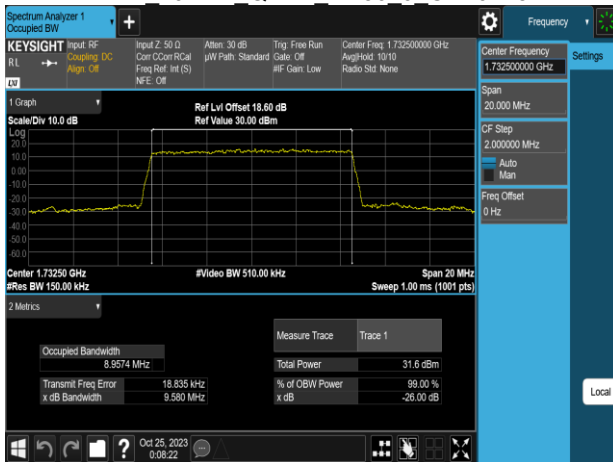
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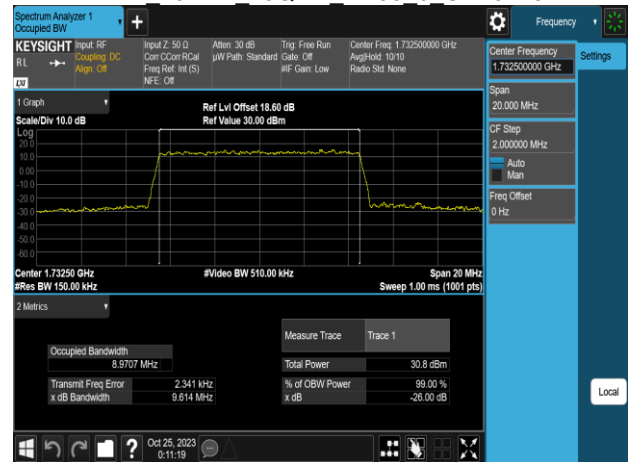
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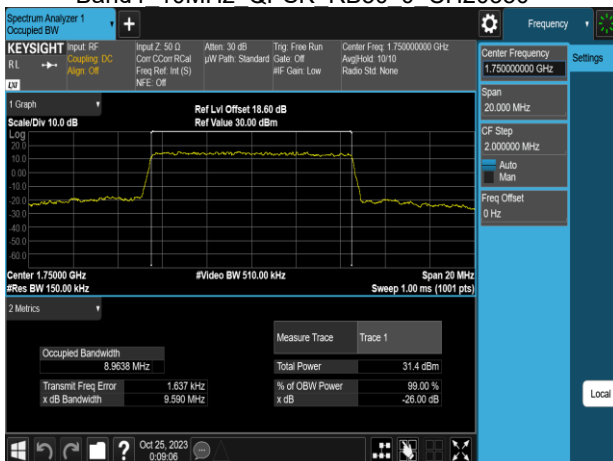
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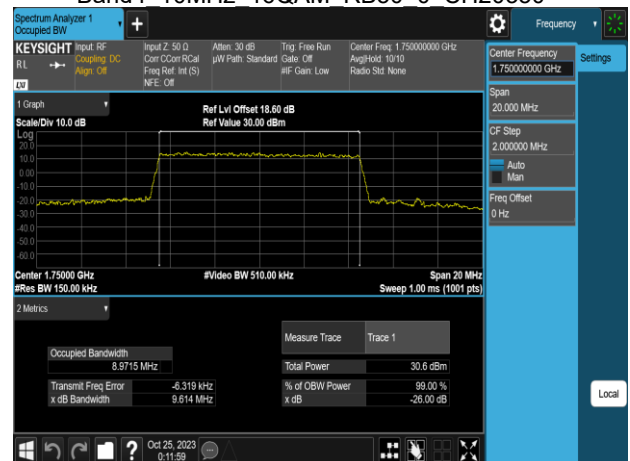
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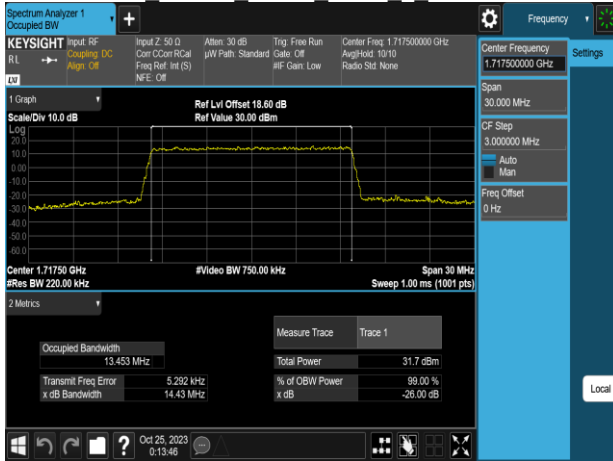


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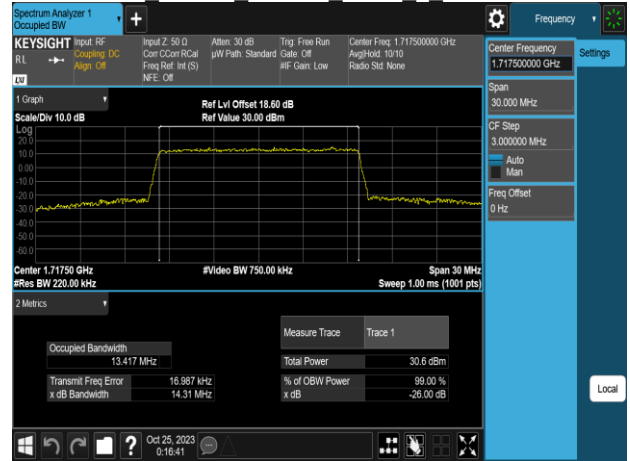


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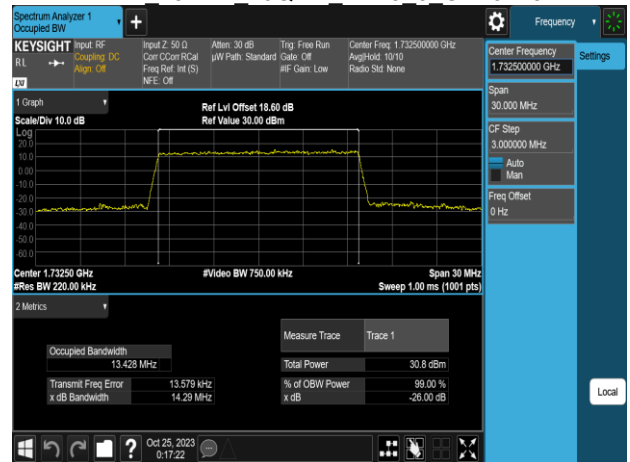
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Band4 15MHz QPSK RB75 0 CH20175



Band4 15MHz 16QAM RB75 0 CH20175



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Band4 15MHz 16QAM RB75 0 CH20325

