

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant:	Quanta Computer Inc. No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City 33377, Taiwan
Manufacturer:	Quanta Computer Inc. No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City 33377, Taiwan
Product Name:	Clover Mini
Brand Name:	Clover
Model No.:	C305
Model Difference:	N/A
Report Number:	E2/2022/20116
FCC ID	HFS-C305
IC:	1787B-C305
Issue Date:	April 14, 2022
Date of Test:	March 11, 2022 ~ March 23, 2022
Date of EUT Received:	February 22, 2022

Approved By

Jay Lin

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 22H & 24E & 27 C and ISED RSS-Gen, 130, 132, 133, 139.

The results of this report relate only to the sample identified in this report.

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.

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Revision History						
Report Number	Revision	Description	Issue Date	Revised By	Remark	
E2/2022/20116	00	Original	April 14, 2022	Yuri Tsai		

Note:

1 . The remark "*" indicates modification of the report upon requests from certification body.

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GS Taiwan Ltd



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GENERAL PRODUCT INFORMATION 1

1.1 **Product Description**

Product Name:	Clover Mini
Brand Name:	Clover
Model No.:	C305
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	C035UT20430001
Power Supply:	12V from Adapter
Test Software (Name/Version)	default

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Operation Frequency Range 1.2

	LTE Band 2				
BW (MHz)	Operation	Freque	ency (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		
	LTE Bar	nd 4			
BW (MHz)	Operation	Freque	ency (MHz)		
1.4	1710.7	-	1754.3		
3	1711.5	-	1753.5		
5	1712.5	-	1752.5		
10	1715.0	-	1750.0		
15	1717.5	-	1747.5		
20	1720.0	-	1745.0		
	LTE Bar	nd 5			
BW (MHz)	Operation	Freque	ency (MHz)		
1.4	824.7	-	848.3		
3	825.5	-	847.5		
5	826.5	-	846.5		
10	829.0	-	844.0		

LTE Band 12				
BW (MHz)	Operation	Freque	ency (MHz)	
1.4	699.7	-	715.3	
3	700.5	-	714.5	
5	701.5	-	713.5	
10	704.0	-	711.0	
	LTE Ban	d 13		
BW (MHz)	Operation	Freque	ency (MHz)	
5	779.5	-	784.5	
10	782.0			
	LTE Ban	d 17		
BW (MHz)	Operation	Freque	ency (MHz)	
5	706.5	-	713.5	
10	709.0	-	711.0	
	LTE Ban	d 66		
BW (MHz)	Operation	Freque	ency (MHz)	
1.4	1710.7	-	1779.3	
3	1711.5	-	1778.5	
5	1712.5	-	1777.5	
10	1715.0	-	1775.0	
10				
15	1717.5	-	1772.5	

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1.3 Antenna Designation

Туре	Modulation	Frequency (MHz)			Peak Antenna Gain (dBi)
	LTE-Band 2	1850	~	1910	2
	LTE-Band 4	1710	~	1755	2.19
	LTE-Band 5	824	~	849	0.34
PIFA	LTE-Band 12	699	~	716	2.47
	LTE-Band 13	777	~	787	1.75
	LTE-Band 17	704	~	716	2.47
	LTE-Band 66	1710	~	1780	2.19

Note: Antenna information is provided by the applicant.

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1.4 Type of Emission & Max ERP/EIRP Power Measurement Result:

LTE Band	BW	Frequ	iency	Modulation	ERP / EIR	P (dBm)	(W)	99%	Type of Emission
2	1.4	1850.7	1909.3	QPSK	23.92	EIRP	0.247	1.0868	1M09G7D
2	1.4	1850.7	1404.3	16QAM	23.00	EIRP	0.200	1.0883	1M09D7W
2	3	10515	1000 5	QPSK	24.01	EIRP	0.252	2.6862	2M69G7D
2	3	1851.5	1908.5	16QAM	23.06	EIRP	0.202	2.6912	2M69D7W
2	5	1050.5	1007 5	QPSK	24.08	EIRP	0.256	4.4915	4M49G7D
2	5	1852.5	1907.5	16QAM	22.97	EIRP	0.198	4.4925	4M49D7W
2	10	1055.0	1905.0	QPSK	24.01	EIRP	0.252	8.9634	8M96G7D
2	10	1855.0	1905.0	16QAM	23.39	EIRP	0.218	3.0713	3M07D7W
2	10	10575	1000 F	QPSK	24.05	EIRP	0.254	13.436	13M4G7D
2	15	1857.5	1902.5	16QAM	23.16	EIRP	0.207	3.198	3M20D7W
2	20	10/0.0	1900.0	QPSK	23.92	EIRP	0.247	17.893	17M9G7D
2	20	1860.0	1900.0	16QAM	23.23	EIRP	0.210	3.766	3M77D7W
LTE Band	BW	Frequ	iency	Modulation	ERP / EIR	P (dBm)	(W)	99%	Type of Emission
4	1.4	1710.7	1754.0	QPSK	24.51	EIRP	0.282	1.0875	1M09G7D
4	1.4	1710.7	1754.3	16QAM	23.55	EIRP	0.226	1.0877	1M09D7W
4	3	1711 5	1753.5	QPSK	24.67	EIRP	0.293	2.6883	2M69G7D
4	3	1711.5	1/53.5	16QAM	23.29	EIRP	0.213	2.6899	2M69D7W
4	5	1710 5	1750.5	QPSK	24.60	EIRP	0.288	4.4917	4M49G7D
4	5	1712.5	1752.5	16QAM	24.01	EIRP	0.252	4.4925	4M49D7W
4	10	1715.0	1750.0	QPSK	24.66	EIRP	0.292	8.9729	8M97G7D
4	10	1715.0	1750.0	16QAM	23.93	EIRP	0.247	3.0523	3M05D7W
4	15	1717.5	1747.5	QPSK	24.78	EIRP	0.301	13.4270	13M4G7D
4	15	1/1/.5	1/4/.5	16QAM	24.47	EIRP	0.280	3.1772	3M18D7W
4	20	1720.0	1745.0	QPSK	24.64	EIRP	0.291	17.8580	17M9G7D
4	20	1720.0	1745.0	16QAM	23.90	EIRP	0.245	3.7599	3M76D7W
LTE Band	BW	Frequ	iency	Modulation	ERP / EIR	P (dBm)	(W)	99%	Type of Emission
				QPSK	20.84	ERP	0.121	1.0876	1M09G7D
5	1.4	824.7	848.3	16QAM	20.05	ERP	0.101	1.0874	1M09D7W
				QPSK	20.88	ERP	0.122	2.6893	2M69G7D
5	3	825.5	847.5	16QAM	20.75	ERP	0.119	2.6911	2M69D7W
	r	00/ 5	044.5	QPSK	20.70	ERP	0.117	4.4859	4M49G7D
5	5	826.5	846.5	16QAM	20.01	ERP	0.100	4.4917	4M49D7W
_				QPSK	20.98	ERP	0.125	8.9620	8M96G7D
5	10	829.0	844.0	16QAM	20.19	ERP	0.104	3.0526	3M05D7W
· · · · · ·									

LTE Band	BW	Frequ	Jency	Modulation	ERP / EIR	P (dBm)	(W)	99%	Type of Emission
				QPSK	23.02	ERP	0.200	1.0869	1M09G7D
12	1.4	699.7	715.3	16QAM	22.18	ERP	0.165	1.0875	1M09D7W
				QPSK	23.09	ERP	0.204	2.6874	2M69G7D
12	3	700.5	714.5	16QAM	21.87	ERP	0.154	2.6921	2M69D7W
				QPSK	22.85	ERP	0.193	4,4883	4M49G7D
12	5	701.5	713.5	16QAM	22.18	ERP	0.165	4.4901	4M49D7W
				QPSK	22.95	ERP	0.197	8.9849	8M98G7D
12	10	704.0	711.0	16QAM	22.38	ERP	0.173	3.0536	3M05D7W
LTE	-	E			500 / 510			0001	Type of
Band	BW	Frequ	uency	Modulation	ERP / EIR	P (dBm)	(W)	99%	Emission
				QPSK	22.23	ERP	0.167	4.4880	4M49G7D
10	-	770 5	7045	16QAM	21.53	ERP	0.142	4.4941	4M49D7W
13	5	779.5	784.5						0KD7W
									0KD7W
				QPSK	22.06	ERP	0.161	8.9372	8M94G7D
				16QAM	21.50	ERP	0.141	3.0287	3M03D7W
13	10	782.0	0 782.0						0KD7W
									0KD7W
LTE	BW	E ro m	uency				0.10	000/	Type of
Band	BW	Fiequ	lency	Modulation	ERP / EIR	P (aBM)	(W)	99%	Emission
17	5	706.5	713.5	QPSK	23.14	ERP	0.206	4.4911	4M49G7D
17	5	/00.5	/13.5	16QAM	21.86	ERP	0.153	4.4908	4M49D7W
17	10								
17		700.0	711.0	QPSK	23.12	ERP	0.205	8.9639	8M96G7D
		709.0	711.0		23.12 22.69	ERP ERP	0.205 0.186	8.9639 3.0520	8M96G7D 3M05D7W
LTE				QPSK 16QAM	22.69	ERP	0.186	3.0520	
LTE Band	BW		711.0 Jency	QPSK 16QAM	22.69	ERP			3M05D7W
Band	BW	Frequ	Jency	QPSK 16QAM Modulation QPSK	22.69 ERP / EIR 23.91	ERP	0.186 (W) 0.246	3.0520 99% 1.0867	3M05D7W Type of
				QPSK 16QAM Modulation	22.69 ERP / EIR	ERP P (dBm)	0.186 (W)	3.0520 99%	3M05D7W Type of Emission
Band 66	BW 1.4	Frequ 1710.7	uency 1779.3	QPSK 16QAM Modulation QPSK	22.69 ERP / EIR 23.91	ERP P (dBm) EIRP	0.186 (W) 0.246	3.0520 99% 1.0867	3M05D7W Type of Emission 1M09G7D
Band	BW	Frequ	Jency	QPSK 16QAM Modulation QPSK 16QAM	22.69 ERP / EIR 23.91 23.21	ERP P (dBm) EIRP EIRP	0.186 (W) 0.246 0.209	3.0520 99% 1.0867 1.0872	3M05D7W Type of Emission 1M09G7D 1M09D7W
Band 66 66	BW 1.4 3	Frequ 1710.7 1711.5	uency 1779.3 1778.5	QPSK 16QAM Modulation QPSK 16QAM QPSK	22.69 ERP / EIR 23.91 23.21 24.06	ERP P (dBm) EIRP EIRP EIRP	0.186 (W) 0.246 0.209 0.255	3.0520 99% 1.0867 1.0872 2.6885	3M05D7W Type of Emission 1M09G7D 1M09D7W 2M69G7D
Band 66	BW 1.4	Frequ 1710.7	uency 1779.3	QPSK 16QAM Modulation QPSK 16QAM QPSK 16QAM	22.69 ERP / EIR 23.91 23.21 24.06 22.80	ERP (dBm) EIRP EIRP EIRP EIRP	0.186 (W) 0.246 0.209 0.255 0.191	3.0520 99% 1.0867 1.0872 2.6885 2.6922	3M05D7W Type of Emission 1M09G7D 1M09D7W 2M69G7D 2M69D7W
Band 66 66 66	BW 1.4 3 5	Frequ 1710.7 1711.5 1712.5	1779.3 1778.5 1777.5	QPSK 16QAM Modulation QPSK 16QAM QPSK 16QAM QPSK	22.69 ERP / EIR 23.91 23.21 24.06 22.80 23.92	ERP (dBm) EIRP EIRP EIRP EIRP EIRP	0.186 (W) 0.246 0.209 0.255 0.191 0.247	3.0520 99% 1.0867 1.0872 2.6885 2.6922 4.4881	3M05D7W Type of Emission 1M09G7D 1M09D7W 2M69G7D 2M69D7W 4M49G7D
Band 66 66	BW 1.4 3	Frequ 1710.7 1711.5	uency 1779.3 1778.5	QPSK 16QAM Modulation QPSK 16QAM QPSK 16QAM QPSK 16QAM	22.69 ERP / EIR 23.91 23.21 24.06 22.80 23.92 22.98	ERP (dBm) EIRP EIRP EIRP EIRP EIRP EIRP	0.186 (W) 0.246 0.209 0.255 0.191 0.247 0.199	3.0520 99% 1.0867 1.0872 2.6885 2.6922 4.4881 4.4918	3M05D7W Type of Emission 1M09G7D 1M09D7W 2M69G7D 2M69D7W 4M49G7D 4M49D7W
Band 66 66 66 66	BW 1.4 3 5 10	Frequ 1710.7 1711.5 1712.5 1715.0	1779.3 1778.5 1777.5 1775.0	QPSK 16QAM Modulation QPSK 16QAM QPSK 16QAM QPSK 16QAM QPSK	22.69 ERP / EIR 23.91 23.21 24.06 22.80 23.92 22.98 24.15	ERP (dBm) EIRP EIRP EIRP EIRP EIRP EIRP EIRP	0.186 (W) 0.246 0.209 0.255 0.191 0.247 0.199 0.260	3.0520 99% 1.0867 1.0872 2.6885 2.6922 4.4881 4.4918 8.9631	3M05D7W Type of Emission 1M09G7D 1M09D7W 2M69G7D 2M69D7W 4M49G7D 4M49D7W 8M96G7D
Band 66 66 66	BW 1.4 3 5	Frequ 1710.7 1711.5 1712.5	1779.3 1778.5 1777.5	QPSK 16QAM Modulation QPSK 16QAM QPSK 16QAM QPSK 16QAM QPSK 16QAM	22.69 ERP / EIR 23.91 23.21 24.06 22.80 23.92 22.98 24.15 23.50	ERP (dBm) EIRP EIRP EIRP EIRP EIRP EIRP EIRP EIRP	0.186 (W) 0.246 0.209 0.255 0.191 0.247 0.199 0.260 0.224	3.0520 99% 1.0867 1.0872 2.6885 2.6922 4.4881 4.4918 8.9631 3.0303	3M05D7W Type of Emission 1M09G7D 1M09D7W 2M69G7D 2M69D7W 4M49G7D 4M49D7W 8M96G7D 3M03D7W
Band 66 66 66 66	BW 1.4 3 5 10	Frequ 1710.7 1711.5 1712.5 1715.0	1779.3 1778.5 1777.5 1775.0	OPSK 16QAM Modulation OPSK 16QAM OPSK 16QAM OPSK 16QAM OPSK	22.69 ERP / EIR 23.91 23.21 24.06 22.80 23.92 22.98 24.15 23.50 23.97	ERP P (dBm) EIRP EIRP EIRP EIRP EIRP EIRP EIRP EIRP	0.186 (W) 0.246 0.209 0.255 0.191 0.247 0.199 0.260 0.224 0.249	3.0520 99% 1.0867 1.0872 2.6885 2.6922 4.4881 4.4918 8.9631 3.0303 13.4410	3M05D7W Type of Emission 1M09G7D 2M69G7D 2M69D7W 4M49G7D 4M49D7W 8M96G7D 3M03D7W 13M4G7D

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號



1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C.

ISED RSS-130 Issue 2 Feb. 2019,

ISED RSS-132 Issue 3 Jan. 2013

ISED RSS-133 Issue 6, Amendment 1 Jan. 18, 2018, ISED RSS-139 Issue 3 July 16, 2015 ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB412172 D01 Determining ERP and EIRP v01r01

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1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 3		
		Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1		
	Industrial Park, Wuku District, New	Conducted 2	TW0027	
	Taipei City, Taiwan.	Conducted 3		TW3702
		Conducted 4		
		Conducted 5	-	
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		
	ame is remarked on the equipmen measurements occurred in specif			s an indica-

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1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber,

the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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SYSTEM TEST CONFIGURATION 2

2.1 **EUT Configuration**

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

2.2 **EUT Exercise**

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 **Test Procedure**

2.3.1 **Conducted Measurement at Antenna Port**

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 **Measurement Results Explanation Example**

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	3.6	10	13.6
High Band (Above 1 GHz)	3.8	10	13.8

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(株計方分 就) 「し根守部末 (注力列 執人(株 前 見)」)「可能(株 前 注 新 部 以入) う 本 紙 守 永 年 本 近 句 音 副 計 う ・ 大 う 部 汚 表 そ This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. SGS Taiwan Ltd. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

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Final Amplifier Voltage and Current Information: 2.5

LTE Band 2

Test mode	DC voltage (V)	DC current (mA)
LTE Band 2_20M QPSK	12	612
LTE Band 4		
Test mode	DC voltage (V)	DC current (mA)
LTE Band 4_20M QPSK	12	592
LTE Band 5		
Test mode	DC voltage (V)	DC current (mA)
LTE Band 5_10M QPSK	12	573
LTE Band 12		
Test mode	DC voltage (V)	DC current (mA)
LTE Band 5_10M QPSK	12	575
LTE Band 13		
Test mode	DC voltage (V)	DC current (mA)
LTE Band 13_10M QPSK	12	579
LTE Band 17		
Test mode	DC voltage (V)	DC current (mA)
LTE Band 17_10M QPSK	12	584
LTE Band 66		
Test mode	DC voltage (V)	DC current (mA)
LTE Band 66_20M QPSK	12	635

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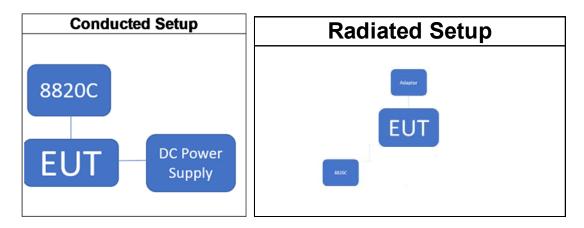
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2.6 Test Configuration



Note: Radio Communication Analyzer is placed in remote side for radiated test.

2.7 Control Unit(s)

	Conducted Emission Test Site: Conducted E											
EQUIPMENT TYPE	TYPE MFR MODEL NUMBER SERIAL NUMBER				CAL DUE.							
DC Power Supply	Gwinstek SPS-3610 GEV856769		2021/8/4	08/03/2022								
	Ra	diated Emission Test Si	te: SAC D									
EQUIPMENT TYPE MFR		MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.							
Adapter	Clover	FSP040-RHBN3	N/A	N/A	N/A							

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SUMMARY OF TEST RESULTS 3

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	RSS-GEN §6.12	RF Power Output	Compliant
§22.913(a)(5) §24.232(c) §27.50(c)(9) §27.50(d)(4)	RSS-130 §4.6 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.5	ERP/ EIRP measure- ment	Compliant
§2.1049(h)	RSS-GEN §6.7	99% & 26dB Occu- pied Bandwidth	Compliant
§2.1051 §22.917(a)(b) §24.238(a) §27.53(c) §27.53(g) §27.53(h)	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6	Out of Band Emis- sions at Antenna Ter- minals and Band Edge / Emis- sion mask require- ments	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(f) §27.53(g) §27.53(h)	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50(a)(1)(B)	RSS-130 §4.6.1 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.4	Peak to Average Ra- tio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	RSS-130 §4.5 RSS-132 §5.3 RSS-133 §6.3 RSS-139 §6.5	Frequency Stability	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
- 3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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4.2 **Measurement Configuration**

-	Test Iter	ms						Max.	Output I	Power				
David	Te	st Chan	nel	Bandwidth (MHz)						Modu	lation		RB #	
Band	L	М	Н	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
2	V	V	V	V	v	V	V	v	V	V	V	V	v	V
4	V	V	v	v	v	v	v	v	V	v	V	v	v	V
5	V	V	V	V	v	V	V	-	-	V	V	V	V	V
12	V	V	V	V	V	V	V	-	-	v	V	V	V	V
13	V	V	V	-	-	V	V	-	-	V	V	V	V	V
17 66	V	V	V	-	-	V	V	-	-	V	V	V	V	V
00	V	V	V	V	V	V	V	V	V	V	V	V	V	V
-	Test Items							Freqe	ency Sta	bility				
2	-	V	-	-	-	-	v	-	-	v	-	-	-	V
4	-	v	-	-	-	-	v	-	-	v	-	-	-	V
5	-	V	-	-	-	-	V	-	-	v	-	-	-	V
12	-	V	-	-	-	-	V	-	-	V	-	-	-	V
13	-	V	-	-	-	-	V	-	-	V	-	-	-	V
17	-	V	-	-	-		V	-	-	V	-	-	-	V
66	-	V	-	-	-	-	V	-	-	V	-	-	-	V
Test Items														
	Test Iter	ms							IB and 9 andwidt					
Pand		ms st Chan	nel		E	Bandwid	th (MHz	В		th	lation		RB #	
Band			nel H	1.4	E 3	3andwid	th (MHz 10	В		th	lation 16QAM	1	RB # Half	Full
2	Te	st Chan		1.4 V	-))	andwidt	th Modu		1		Full
2 4	Te L V V	st Chan M v v	H V V	V V	3 V V	5 V V	10 V V	B) 15	andwidt 20	th Modu QPSK V V	16QAM V V		Half	V V
2 4 5	Te L V V	st Chan M V V V	H V V V	V V V	3 V V V	5 V V V	10 V V V) 15 v v -	andwidt 20 v v -	th Modu QPSK V V V	16QAM V V V	- - -	Half - -	V V V
2 4 5 12	Te L v v v v v v v v	st Chan M V V V V	H V V V	V V V V	3 V V V V	5 V V V V	10 V V V V	B 15 V V -	andwidt 20 V v -	th Modu QPSK V V V V	16QAM V V V V		Half - - -	V V V V
2 4 5 12 13	Te L V V V V V V V V V	st Chan M V V V V V V	H V V V V	V V V V -	3 V V V V	5 V V V V V	10 v v v v v v	B) 15 V - - - -	20 V V - - -	th Modu QPSK V V V V V	16QAM V V V V V	- - - -	Half - - - -	V V V V V
2 4 5 12 13 17	Te L v v v v v v v v v v v v v v v v	st Chan M V V V V V V V	H V V V V V V	V V V -	3 V V V - -	5 V V V V V V V	10 v v v v v v v v v	B) 15 v v - - - -	andwidt 20 V - - - -	th Modu QPSK V V V V V V V V	16QAM V V V V V V	- - - - -	Half - - - - -	V V V V V V
2 4 5 12 13	Te L V V V V V V V V V	st Chan M V V V V V V	H V V V V	V V V V -	3 V V V V	5 V V V V V	10 v v v v v v	B) 15 V - - -	20 V V - - -	th Modu QPSK V V V V V V	16QAM V V V V V	- - - -	Half - - - -	V V V V V
2 4 5 12 13 17 66	Te L v v v v v v v v v v v v v v v v	st Chan M V V V V V V V V V V	H V V V V V V	V V V -	3 V V V - -	5 V V V V V V	10 V V V V V V V V	B) 15 v v - - - -	andwidt 20 V - - - - V	th QPSK V V V V V V V V V V	16QAM V V V V V V V V	- - - - -	Half - - - - -	V V V V V V
2 4 5 12 13 17 66	Te L V	st Chan M V V V V V V V V M S	H V V V V V V V V	V V V - V V	3 V V V - - V V	5 V V V V V V V V	10 V V V V V V V V	B 15 V - - - - V Peak-to	andwidt 20 V - - - V - Av erag	th Modu QPSK V V V V V V V V V V V V V	16QAM V V V V V V V		Half - - - - - - -	V V V V V V V
2 4 5 12 13 17 66 2 4	Te L V	st Chan M V V V V V V V V V V V V V V V V	H V V V V V V V V V V	V V - - V V V V	3 V V V - - V V V V	5 V V V V V V V V V	10 V V V V V V V V V	B 15 V - - - - V Peak-to	andwidt 20 v - - - v - Av erag	th Modu QPSK V V V V V V V V V V V V V	16QAM V V V V V V V V V		Half - - - - - -	V V V V V V V
2 4 5 12 13 17 66 2 4 5	Te L V	st Chan M V V V V V V V V V V V V V V V V V	H V V V V V V V V V V V	V V - - V V V V V V	3 V V V - - V V V V V	5 V V V V V V V V V V	10 V V V V V V V V V V V	B 15 V - - - - V Peak-to V V -	andwidt 20 V - - - V - Av erag	th Modu QPSK V V V V V V V V V V V V V	16QAM V V V V V V V V V V V		Half - - - - - - - - - - - - -	V V V V V V V V V
2 4 5 12 13 17 66 2 4 5 12	Te L V	st Chan M V V V V V V V V V V V V V V V V V	H V V V V V V V V V V V V V	V V V - - V V V V V V V V	3 V V V - - V V V V V V V	5 V V V V V V V V V V V	10 V V V V V V V V V V V V	B 15 V - - - V Peak-to V V - - - - - - - - - - - - -	andwidt 20 V - - - - - V - Av erag	th Modu QPSK V V V V V V V V V V V V V	16QAM V V V V V V V V V V V V V		Half - - - - - - - - - - - - - - - -	V V V V V V V V V V V
2 4 5 12 13 17 66 2 4 5 12 12 13	Te: L V	st Chan M V V V V V V V V V V V V V V V V V V	H V V V V V V V V V V V V V	V V V - - V V V V V V V V V	3 V V V - - V V V V V V V V - - - V	5 V V V V V V V V V V V V V	10 V V V V V V V V V V V V	B 15 V - - - V Peak-to V V - - - - - - - - - - - - -	andwidt 20 V - - - - V - Av erag	th Modu QPSK V V V V V V V V V V V V V	16QAM V V V V V V V V V V V V V		Half - - - - - - - - - - - - - - - - - - -	V V V V V V V V V V V V V V
2 4 5 12 13 17 66 2 4 5 12	Te L V	st Chan M V V V V V V V V V V V V V V V V V	H V V V V V V V V V V V V V	V V V - - V V V V V V V V	3 V V V - - V V V V V V V	5 V V V V V V V V V V V	10 V V V V V V V V V V V V	B 15 V - - - V Peak-to V V - - - - - - - - - - - - -	andwidt 20 V - - - - - V - Av erag	th Modu QPSK V V V V V V V V V V V V V	16QAM V V V V V V V V V V V V V		Half - - - - - - - - - - - - - - - - -	V V V V V V V V V V V

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	Test Ite	ms		Band Edge										
Band	Test Channel			Bandwidth (MHz)							Modulation		RB #	
Danu	L	М	Н	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
2	V	-	v	v	v	v	v	v	v	v	-	v	v	v
4	V	-	v	v	v	v	v	v	v	v	-	v	v	V
5	V	-	v	v	v	v	v	-	-	v	-	V	v	V
12	V	-	v	v	v	v	v	-	-	v	-	V	v	V
13	V	-	v	-	-	v	v	-	-	V	-	V	v	V
17	V	-	v	-	-	v	v	-	-	v	-	v	v	V
66	V	-	v	v	v	v	v	v	v	v	-	v	v	V
	Test Ite	ms		Conducted Emission										
2	V	V	V	v	V	V	V	V	V	V	-	v	-	-
4	V	V	V	V	v	V	V	V	v	V	-	V	-	-
5	V	v	v	v	v	v	v	-	-	V	-	V	-	-
12	V	V	V	V	V	V	V	-	-	V	-	V	-	-
13	V	v	v	-	-	v	v	-	-	v	-	v	-	-
17	V	v	v	-	-	v	v	-	-	v	-	v	-	-
66	V	V	V	v	v	v	V	v	v	v	-	v	-	-

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MEASUREMENT UNCERTAINTY 5

Test Items	Und	certair	nty
RF Power Output	+/-	1	dB
ERP/ EIRP measurement	+/-	3	dB
	+/-	3	dB
Emission Bandwidth	+/-	1.53	Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/-	1.68	dB
Peak to Average Ratio	+/-	1	dB
Frequency Stability vs. Temperature	+/-	1.53	Hz
Frequency Stability vs. Voltage	+/-	1.53	Hz
Temperature	+/-	0.4	°C
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty								
	+/-	2.57	dB	9kHz~30MHz				
Polarization: Vertical	+/-	4.85	dB	30MHz - 1000MHz				
	+/-	4.45	dB	1GHz - 18GHz				
	+/-	4.24	dB	18GHz - 40GHz				
	+/-	2.57	dB	9kHz~30MHz				
Polarization: Horizontal	+/-	4.37	dB	30MHz - 1000MHz				
	+/-	4.45	dB	1GHz - 18GHz				
	+/-	4.24	dB	18GHz - 40GHz				

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

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MEASUREMENT EQUIPMENT USED 6

6.1 **Conducted Measurement**

	Con	ducted Emission Test Site: Co	onducted E		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Gwinstek	SPS-3610	GEV856769	2021/8/4	08/03/2022
Radio Communication Analyer	Anritsu	MT8820C	6201107337	07/28/2021	07/27/2022
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/01/2021	06/30/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Coaxial Cables	Woken	00100A1F1A185C	RF87	11/18/2021	11/17/2022
Coaxial Cables	Woken	00100A1F1A185C	RF92	11/18/2021	11/17/2022
Coaxial Cables	Woken	00100A1F2A196C	RF93	11/18/2021	11/17/2022
Attenuator	Marvelous	MVE2213-10	RF06	11/18/2021	11/17/2022
DC Block	PASTERNACK	PE8210	RF158	11/18/2021	11/17/2022
Splitter	Woken	DOM35LW1A2	RF258	11/18/2021	11/17/2022

6.2 **Radiated Measurement**

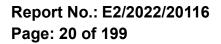
	Rac	liated Emission Test Si	te: SAC D			
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	11/12/2021	11/11/2022	
Horn Antenna	Schwarzbeck	BBHA9170	185	08/06/2021	08/05/2022	
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/04/2021	06/03/2022	
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022	
3m Site NSA	SGS	966 chamber D	N/A	07/12/2021	07/11/2022	
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R	
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/01/2021	05/31/2022	
Radio Communication Analyer	Anritsu	MT8820C	6201107337	07/28/2021	07/27/2022	
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022	
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/18/2021	11/17/2022	
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/18/2021	11/17/2022	
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/18/2021	11/17/2022	
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/18/2021	11/17/2022	
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/18/2021	11/17/2022	
Attenuator	Marvelous	WATT-218FS-10	RF17	11/18/2021	11/17/2022	
Lowpass Filter	Woken	EWT-56-0019	RF173	11/18/2021	11/17/2022	
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/18/2021	11/17/2022	
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/18/2021	11/17/2022	

NOTE: N.C.R refers to Not Calibrated Required.

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7 MAXMUM OUTPUT POWER

7.1 Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

7.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50 (b)

(9) Control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 30 watts ERP.

FCC 27.50(c)

(9) Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

RSS-130 §4.6

The e.r.p. shall not exceed 3 watts for portable equipment and indoor fixed subscriber equipment operating in 698-756 and 777-787 MHz.

RSS-132 §5.4

The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment in operating in the Bands 824-849 and 869-894MHz shall not exceed 11.5 watts.

RSS-133 §6.4

The equivalent isotropically radiated power (e.i.r.p.) for transmitters shall not exceed the limits given in SRSP-510.

According to section 5.1.2 of SRSP-510, Mobile stations and hand-held portables are limited to 2 watts maximum e.i.r.p. The equipment shall employ means to limit the power to the minimum necessary for successful communication.

RSS-139 §6.5

The equivalent isotropically radiated power (e.i.r.p.) for mobile and portable transmitters in the Bands 1710-1780MHz shall not exceed one watt.

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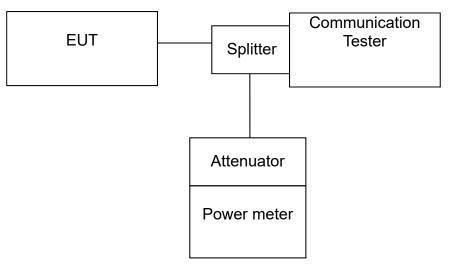
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7.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

7.3 Output Power Measurement Applicable Guideance

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

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7.4 Determining ERP and/or EIRP from conducted RF output power measurements

According to KDB 412172 D01 Power Approach,

 $EIRP = P_{T} + G_{T} - L_{C},$

ERP= EIRP-2.15,

Where:

ERP or EIRP	 effective radiated power or equivalent isotropically radiated power (expressed in the same units as PT, typically dBW, dBm, or power spectral density (PSD)2), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);
Ρτ	= transmitter output power, expressed in dBW, dBm, or PSD;
Gτ	= gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
Lc	 signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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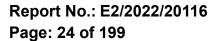
7.5 **Measurement Results:**

Antenna	gain (dBi)	2							
		l	_TE Band 2_Up	link frequ	iency bar	nd : 1850 to 191	0 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.73	23.73	33	-9.27
	18607	1850.7	QPSK	1	5	21.58	23.58	33	-9.42
	10007	1030.7	0151	3	2	21.91	23.91	33	-9.09
				6	0	20.88	22.88	33	-10.12
				1	0	21.51	23.51	33	-9.49
1.4	18900	1880	QPSK	1	5	21.69	23.69	33	-9.31
1.7	10700	1000	0151	3	2	21.68	23.68	33	-9.32
				6	0	20.72	22.72	33	-10.28
		1909.3	QPSK	1	0	21.62	23.62	33	-9.38
	19193			1	5	21.92	23.92	33	-9.08
	17175	1707.5		3	2	21.83	23.83	33	-9.17
				6	0	20.84	22.84	33	-10.16
				1	0	21.00	23.00	33	-10
	18607	1850.7	16QAM	1	5	20.73	22.73	33	-10.27
	10007	1030.7	TOCAM	3	2	20.93	22.93	33	-10.07
				6	0	19.98	21.98	33	-11.02
				1	0	20.49	22.49	33	-10.51
1.4	18900	1880	16QAM	1	5	20.56	22.56	33	-10.44
т. т	10700	1000	TOCAW	3	2	20.83	22.83	33	-10.17
				6	0	19.67	21.67	33	-11.33
				1	0	20.65	22.65	33	-10.35
	19193	1000 3	16QAM	1	5	20.60	22.60	33	-10.4
	17175	1909.3	TOCAW	3	2	21.00	23.00	33	-10
				6	0	19.92	21.92	33	-11.08

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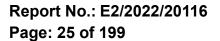
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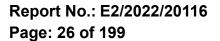


Antenna	gain (dBi)	2							
			TE Band 2_Upl	link frequ	iency bar	nd : 1850 to 191	0 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.01	24.01	33	-8.99
	18615	1851.5	QPSK	1	14	21.78	23.78	33	-9.22
	10013	1051.5	QISK	8	4	21.03	23.03	33	-9.97
				15	0	20.92	22.92	33	-10.08
				1	0	21.73	23.73	33	-9.27
3	18900	1880	QPSK	1	14	21.52	23.52	33	-9.48
5	10700	1000	QISK	8	4	20.69	22.69	33	-10.31
				15	0	20.67	22.67	33	-10.33
			QPSK	1	0	21.57	23.57	33	-9.43
	19185	1908.5		1	14	21.85	23.85	33	-9.15
	19105	1900.5		8	4	20.93	22.93	33	-10.07
				15	0	20.79	22.79	33	-10.21
				1	0	21.06	23.06	33	-9.94
	18615	1851.5	16QAM	1	14	20.71	22.71	33	-10.29
	10015	1051.5	TOQAW	8	4	20.03	22.03	33	-10.97
				15	0	19.86	21.86	33	-11.14
				1	0	20.89	22.89	33	-10.11
3	18900	1880	16QAM	1	14	20.51	22.51	33	-10.49
3	18900	1000	TOQAIVI	8	4	19.65	21.65	33	-11.35
				15	0	19.73	21.73	33	-11.27
				1	0	20.71	22.71	33	-10.29
	19185	1908.5	16QAM	1	14	20.69	22.69	33	-10.31
	19100	0.906.0	TOQAIN	8	4	19.85	21.85	33	-11.15
				15	0	19.77	21.77	33	-11.23





Antenna	gain (dBi)	2							
		l	TE Band 2_Upl	ink frequ	iency bar	nd : 1850 to 191	0 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.08	24.08	33	-8.92
	18625	625 1852.5	QPSK	1	24	21.66	23.66	33	-9.34
	10023	1052.5	QISK	12	6	20.85	22.85	33	-10.15
			25	0	20.88	22.88	33	-10.12	
				1	0	21.51	23.51	33	-9.49
5	18900	1880	QPSK	1	24	21.50	23.50	33	-9.5
5	10900	1000	QPSK	12	6	20.61	22.61	33	-10.39
				25	0	20.61	22.61	33	-10.39
			.5 QPSK	1	0	21.53	23.53	33	-9.47
	19175	1907.5		1	24	21.67	23.67	33	-9.33
	19175	1907.5		12	6	20.67	22.67	33	-10.33
				25	0	20.82	22.82	33	-10.18
				1	0	20.53	22.53	33	-10.47
	18625	1852.5	16QAM	1	24	20.86	22.86	33	-10.14
	10025	1002.0	TOQAIVI	12	6	19.84	21.84	33	-11.16
				25	0	19.84	21.84	33	-11.16
				1	0	20.97	22.97	33	-10.03
E	10000	1000	14001	1	24	20.41	22.41	33	-10.59
5	18900	1880	16QAM	12	6	19.70	21.70	33	-11.3
				25	0	19.55	21.55	33	-11.45
				1	0	20.78	22.78	33	-10.22
	19175	1907.5	16QAM	1	24	20.78	22.78	33	-10.22
	19170	1907.5	TOUAIVI	12	6	19.66	21.66	33	-11.34
				25	0	20.01	22.01	33	-10.99





Antenna	gain (dBi)	2							
		l	_TE Band 2_Upl	ink frequ	iency bar	nd : 1850 to 191	0 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.87	23.87	33	-9.13
	18650	1855	QPSK	1	49	21.66	23.66	33	-9.34
	10030	1055		25	12	20.93	22.93	33	-10.07
				50	0	20.93	22.93	33	-10.07
			QPSK	1	0	22.01	24.01	33	-8.99
10	18900	1880		1	49	21.80	23.80	33	-9.2
10	10900			25	12	20.87	22.87	33	-10.13
				50	0	20.94	22.94	33	-10.06
		1905	QPSK	1	0	21.59	23.59	33	-9.41
	19150			1	49	21.99	23.99	33	-9.01
				25	12	20.94	22.94	33	-10.06
				50	0	20.97	22.97	33	-10.03
				1	0	20.96	22.96	33	-10.04
	18650	1855	16QAM	1	15	21.03	23.03	33	-9.97
	10000	1000	TOQAIN	12	0	21.39	23.39	33	-9.61
				16	0	20.18	22.18	33	-10.82
				1	0	21.11	23.11	33	-9.89
10	18900	1880	16QAM	1	15	21.36	23.36	33	-9.64
10	18900	1000	TOQAIVI	12	0	21.11	23.11	33	-9.89
				16	0	20.22	22.22	33	-10.78
				1	0	20.36	22.36	33	-10.64
	19150	1905	16QAM	1	15	21.15	23.15	33	-9.85
	19100	1900	TOQAIVI	12	0	21.11	23.11	33	-9.89
				16	0	20.17	22.17	33	-10.83

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Antenna	gain (dBi)	2							
		l	LTE Band 2_Upl	ink frequ	iency bar	nd : 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	0	22.05	24.05	33	- <mark>8.9</mark> 5
	18675	1857.5	QPSK	1	74	21.62	23.62	33	-9.38
	10070	1007.0	GION	36	18	20.81	22.81	33	-10.19
				75	0	20.79	22.79	33	-10.21
			QPSK	1	0	21.72	23.72	33	-9.28
15	18900	1880		1	74	21.55	23.55	33	-9.45
15	10300	1000		36	18	20.75	22.75	33	-10.25
				75	0	20.76	22.76	33	-10.24
		1902.5	QPSK	1	0	21.77	23.77	33	-9.23
	19125			1	74	21.85	23.85	33	-9.15
	19125			36	18	20.68	22.68	33	-10.32
				75	0	20.70	22.70	33	-10.3
				1	0	20.75	22.75	33	-10.25
	18675	1857.5	16QAM	1	15	21.16	23.16	33	-9.84
				16	0	21.07	23.07	33	-9.93
				1	0	20.86	22.86	33	-10.14
15	18900	1880	16QAM	1	15	20.83	22.83	33	-10.17
				16	0	20.94	22.94	33	-10.06
				1	0	20.70	22.70	33	-10.3
	19125	1902.5	16QAM	1	15	20.76	22.76	33	-10.24
				16	0	20.69	22.69	33	-10.31

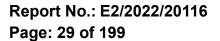
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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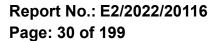
Antenna	gain (dBi)	2							
		l	LTE Band 2_Upl	ink frequ	iency bar	nd : 1850 to 1910) MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.92	23.92	33	-9.08
	18700	1860	QPSK	1	99	21.46	23.46	33	-9.54
	10100	1000	Qi Oit	50	25	20.89	22.89	33	-10.11
				100	0	20.82	22.82	33	-10.18
			QPSK	1	0	21.51	23.51	33	-9.49
20	18900	1880		1	99	21.52	23.52	33	-9.48
20	10000	1000		50	25	20.75	22.75	33	-10.25
				100	0	20.88	22.88	33	-10.12
		1900	QPSK	1	0	21.55	23.55	33	-9.45
	19100			1	99	21.69	23.69	33	-9.31
	13100			50	25	20.58	22.58	33	-10.42
				100	0	20.86	22.86	33	-10.14
				1	0	20.77	22.77	33	-10.23
	18700	1860	16QAM	1	17	21.23	23.23	33	-9.77
				18	0	21.17	23.17	33	-9.83
				1	0	20.57	22.57	33	-10.43
20	18900	1880	16QAM	1	17	20.82	22.82	33	-10.18
				18	0	21.01	23.01	33	-9.99
				1	0	20.57	22.57	33	-10.43
	19100	1900	16QAM	1	17	20.29	22.29	33	-10.71
				18	0	20.62	22.62	33	-10.38

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Antenna	gain (dBi)	2.19							
		l	TE Band 4_Up	link frequ	iency bar	nd : 1710 to 175	5 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.07	24.26	30	-5.74
	19957	1710.7	QPSK	1	5	22.14	24.33	30	-5.67
	17757	1710.7	QUSIC	3	2	22.18	24.37	30	-5.63
				6	0	21.14	23.33	30	-6.67
			QPSK	1	0	22.13	24.32	30	-5.68
1.4	20175	1732.5		1	5	22.31	24.50	30	-5.5
1.4	20175			3	2	22.22	24.41	30	-5.59
				6	0	20.98	23.17	30	-6.83
Ī		1754.3	QPSK	1	0	22.29	24.48	30	-5.52
	20393			1	5	22.14	24.33	30	-5.67
				3	2	22.32	24.51	30	-5.49
				6	0	21.45	23.64	30	-6.36
				1	0	21.14	23.33	30	-6.67
	19957	1710.7	16QAM	1	5	20.65	22.84	30	-7.16
	17757	1710.7	TOCAW	3	2	21.14	23.33	30	-6.67
				6	0	19.81	22.00	30	-8
				1	0	20.79	22.98	30	-7.02
1.4	20175	1732.5	16QAM	1	5	20.57	22.76	30	-7.24
1.4	20175	1752.0	TOQAIVI	3	2	21.35	23.54	30	-6.46
				6	0	19.82	22.01	30	-7.99
				1	0	21.17	23.36	30	-6.64
	20393	1754.3	16QAM	1	5	21.15	23.34	30	-6.66
	20373	1704.0	TOCAIVI	3	2	21.36	23.55	30	-6.45
				6	0	20.02	22.21	30	-7.79





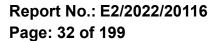
Antenna	gain (dBi)	2.19							
		l	TE Band 4_Upl	link frequ	iency bar	nd : 1710 to 175	5 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.81	24.00	30	-6
	19965	1711.5	QPSK	1	14	22.04	24.23	30	-5.77
	19903	1711.5		8	4	21.17	23.36	30	-6.64
				15	0	21.12	23.31	30	-6.69
			QPSK	1	0	22.20	24.39	30	-5.61
3	20175	1732.5		1	14	21.93	24.12	30	-5.88
5	20175	1752.5		8	4	21.12	23.31	30	-6.69
				15	0	21.04	23.23	30	-6.77
Ī		1753.5	QPSK	1	0	22.33	24.52	30	-5.48
	20385			1	14	22.48	24.67	30	-5.33
				8	4	20.85	23.04	30	-6.96
				15	0	21.41	23.60	30	-6.4
				1	0	20.96	23.15	30	-6.85
	19965	1711.5	16QAM	1	14	21.04	23.23	30	-6.77
	19905	1711.5	TOQAW	8	4	20.08	22.27	30	-7.73
				15	0	19.92	22.11	30	-7.89
				1	0	20.98	23.17	30	-6.83
3	20175	1732.5	16QAM	1	14	20.97	23.16	30	-6.84
3	20175	1752.5	TOQAIVI	8	4	20.35	22.54	30	-7.46
				15	0	20.16	22.35	30	-7.65
				1	0	20.93	23.12	30	-6.88
	20385	1753.5	160AM	1	14	21.10	23.29	30	-6.71
	20305	1755.5	16QAM	8	4	20.60	22.79	30	-7.21
				15	0	19.86	22.05	30	-7.95

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Antenna	gain (dBi)	2.19							
		I	_TE Band 4_Upl	ink frequ	iency bar	nd : 1710 to 175	5 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.00	24.19	30	-5.81
	19975	1712.5	QPSK	1	24	21.91	24.10	30	-5.9
	17773	1712.5	01510	12	6	21.07	23.26	30	-6.74
				25	0	20.78	22.97	30	-7.03
				1	0	22.11	24.30	30	-5.7
5	20175	1732.5	QPSK	1	24	21.95	24.14	30	-5.86
0	20170	1702.0		12	6	20.95	23.14	30	-6.86
				25	0	20.89	23.08	30	-6.92
		1752.5	QPSK	1	0	22.20	24.39	30	-5.61
	20375			1	24	22.41	24.60	30	-5.4
				12	6	21.36	23.55	30	-6.45
				25	0	21.25	23.44	30	-6.56
				1	0	20.72	22.91	30	-7.09
	19975	1712.5	16QAM	1	24	21.06	23.25	30	-6.75
	17770	1712.0	1002/111	12	6	20.06	22.25	30	-7.75
				25	0	19.87	22.06	30	-7.94
				1	0	20.48	22.67	30	-7.33
5	20175	1732.5	160AM	1	24	20.82	23.01	30	-6.99
5	20175	1752.5	1002/101	12	6	19.82	22.01	30	-7.99
				25	0	20.01	22.20	30	-7.8
				1	0	21.82	24.01	30	-5.99
	20375	1752.5	16QAM	1	24	21.16	23.35	30	-6.65
	20373	1752.5		12	6	20.43	22.62	30	-7.38
				25	0	20.22	22.41	30	-7.59

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Antenna	gain (dBi)	2.19							
		l	_TE Band 4_Upl	link frequ	iency bar	nd : 1710 to 175	5 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.08	24.27	30	-5.73
	20000	1715	QPSK	1	49	22.23	24.42	30	-5.58
	20000	1715	QI SIK	25	12	21.10	23.29	30	-6.71
				50	0	21.57	23.76	30	-6.24
			QPSK	1	0	21.82	24.01	30	-5.99
10	20175	1732.5		1	49	22.06	24.25	30	-5.75
10	20175	1752.5		25	12	21.11	23.30	30	-6.7
				50	0	21.33	23.52	30	-6.48
ſ		1750	QPSK	1	0	22.47	24.66	30	-5.34
	20350			1	49	22.39	24.58	30	-5.42
				25	12	21.41	23.60	30	-6.4
				50	0	21.61	23.80	30	-6.2
				1	0	20.62	22.81	30	-7.19
	20000	1715	16QAM	1	15	21.74	23.93	30	-6.07
	20000	1715	TOQAIN	12	0	21.69	23.88	30	-6.12
				16	0	20.59	22.78	30	-7.22
				1	0	21.06	23.25	30	-6.75
10	20175	1732.5	16QAM	1	15	21.26	23.45	30	-6.55
10	20175	1732.5	TOQAIVI	12	0	21.57	23.76	30	-6.24
				16	0	20.15	22.34	30	-7.66
				1	0	21.25	23.44	30	-6.56
	20350	1750	160414	1	15	21.54	23.73	30	-6.27
	20350	1750	16QAM	12	0	21.42	23.61	30	-6.39
				16	0	20.32	22.51	30	-7.49

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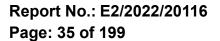


Antenna	Antenna gain (dBi)								
		l	LTE Band 4_Upl	ink frequ	iency bar	nd : 1710 to 175	5 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.59	24.78	30	-5.22
	20025	1717.5	QPSK	1	74	22.20	24.39	30	-5.61
	20020	1111.0	Gron	36	18	21.09	23.28	30	-6.72
				75	0	20.83	23.02	30	-6.98
			QPSK	1	0	22.22	24.41	30	-5.59
15	20175	1732.5		1	74	22.46	24.65	30	-5.35
10	20175	1102.0		36	18	21.22	23.41	30	-6.59
				75	0	20.85	23.04	30	-6.96
	20325	1747.5	QPSK	1	0	22.41	24.60	30	-5.4
				1	74	22.45	24.64	30	-5.36
	20020			36	18	21.39	23.58	30	-6.42
				75	0	20.88	23.07	30	-6.93
				1	0	22.28	24.47	30	-5.53
	20025	1717.5	16QAM	1	15	21.40	23.59	30	-6.41
				16	0	21.70	23.89	30	-6.11
				1	0	21.25	23.44	30	-6.56
15	20175	1732.5	16QAM	1	15	21.32	23.51	30	-6.49
				16	0	21.40	23.59	30	-6.41
				1	0	20.41	22.60	30	-7.4
	20325	1747.5	16QAM	1	15	21.57	23.76	30	-6.24
				16	0	21.49	23.68	30	-6.32

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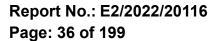


Antenna	gain (dBi)	2.19							
		I	LTE Band 4_Upl	ink frequ	iency bar	nd : 1710 to 175	5 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.18	23.37	30	-6.63
	20050	1720	OPSK	1	99	21.85	24.04	30	-5.96
	20000	1120	Gr on	50	25	21.04	23.23	30	-6.77
				100	0	21.03	23.22	30	-6.78
			QPSK	1	0	22.24	24.43	30	-5.57
20	20175	1732.5		1	99	22.26	24.45	30	-5.55
20	20175	1102.0		50	25	21.14	23.33	30	-6.67
				100	0	21.12	23.31	30	-6.69
	20300	1745	QPSK	1	0	22.43	24.62	30	-5.38
				1	99	22.45	24.64	30	-5.36
	20300			50	25	21.33	23.52	30	-6.48
				100	0	21.15	23.34	30	-6.66
				1	0	20.94	23.13	30	-6.87
	20050	1720	16QAM	1	17	21.48	23.67	30	-6.33
				18	0	21.62	23.81	30	-6.19
				1	0	20.83	23.02	30	-6.98
20	20175	1732.5	16QAM	1	17	21.13	23.32	30	-6.68
				18	0	21.49	23.68	30	-6.32
				1	0	20.62	22.81	30	-7.19
	20300	1745	16QAM	1	17	21.61	23.80	30	-6.2
				18	0	21.71	23.90	30	-6.1



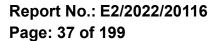


Antenna	gain (dBi)	0.34								
			LTE Ba	nd 5_Upl	link frequ	ency band : 824	4 to 849 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.53	20.72	22.87	38.45	-17.73
	20407	824.7	QPSK	1	5	22.39	20.58	22.73	38.45	-17.87
	20407	024.7		3	2	22.64	20.83	22.98	38.45	-17.62
				6	0	21.64	19.83	21.98	38.45	-18.62
		836.5	QPSK	1	0	22.32	20.51	22.66	38.45	-17.94
1.4	20525			1	5	22.29	20.48	22.63	38.45	-17.97
1.4	20323			3	2	22.46	20.65	22.80	38.45	-17.80
				6	0	21.50	19.69	21.84	38.45	-18.76
		848.3	QPSK	1	0	22.60	20.79	22.94	38.45	-17.66
	20643			1	5	22.65	20.84	22.99	38.45	-17.61
	20043			3	2	22.63	20.82	22.97	38.45	-17.63
				6	0	21.71	19.90	22.05	38.45	-18.55
				1	0	21.35	19.54	21.69	38.45	-18.91
	20407	824.7	16QAM	1	5	21.29	19.48	21.63	38.45	-18.97
	20407	024.7	TOQAIN	3	2	21.66	19.85	22.00	38.45	-18.60
				6	0	20.45	18.64	20.79	38.45	-19.81
				1	0	21.23	19.42	21.57	38.45	-19.03
1.4	20525	836.5	16QAM	1	5	21.35	19.54	21.69	38.45	-18.91
1.4	20020	030.0	TUQAIVI	3	2	21.61	19.80	21.95	38.45	-18.65
				6	0	20.40	18.59	20.74	38.45	-19.86
				1	0	21.56	19.75	21.90	38.45	-18.70
	20643	848.3	160AM	1	5	21.86	20.05	22.20	38.45	-18.40
	20043	040.3	16QAM	3	2	21.80	19.99	22.14	38.45	-18.46
				6	0	20.46	18.65	20.80	38.45	-19.80



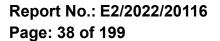


Antenna	gain (dBi)	0.34								
			LTE Ba	nd 5_Upl	ink frequ	ency band : 824	4 to 849 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.69	20.88	23.03	38.45	-17.57
	20415	825.5	QPSK	1	14	22.54	20.73	22.88	38.45	-17.72
	20413	023.5		8	4	21.57	19.76	21.91	38.45	-18.69
				15	0	21.55	19.74	21.89	38.45	-18.71
		836.5	QPSK	1	0	22.19	20.38	22.53	38.45	-18.07
3	20525			1	14	22.45	20.64	22.79	38.45	-17.81
J	20323			8	4	21.46	19.65	21.80	38.45	-18.80
				15	0	21.45	19.64	21.79	38.45	-18.81
		847.5	QPSK	1	0	22.59	20.78	22.93	38.45	-17.67
	20635			1	14	22.42	20.61	22.76	38.45	-17.84
	20033			8	4	21.80	19.99	22.14	38.45	-18.46
				15	0	21.77	19.96	22.11	38.45	-18.49
				1	0	21.38	19.57	21.72	38.45	-18.88
	20415	825.5	16QAM	1	14	21.38	19.57	21.72	38.45	-18.88
	20415	020.0	TOQAIN	8	4	20.48	18.67	20.82	38.45	-19.78
				15	0	20.24	18.43	20.58	38.45	-20.02
				1	0	21.10	19.29	21.44	38.45	-19.16
3	20525	836.5	16QAM	1	14	21.38	19.57	21.72	38.45	-18.88
J	20020	030.0	TUCAIVI	8	4	20.63	18.82	20.97	38.45	-19.63
				15	0	20.56	18.75	20.90	38.45	-19.70
				1	0	22.56	20.75	22.90	38.45	-17.70
	20635	847.5	160AM	1	14	21.51	19.70	21.85	38.45	-18.75
	20035	047.0	16QAM	8	4	20.50	18.69	20.84	38.45	-19.76
				15	0	20.53	18.72	20.87	38.45	-19.73





Antenna	Antenna gain (dBi) 0.34									
			LTE Ba	nd 5_Upl	ink frequ	ency band : 824	4 to 849 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.16	20.35	22.50	38.45	-18.10
	20425	826.5	QPSK	1	24	22.04	20.23	22.38	38.45	-18.22
	20423	020.5	QLSK	12	6	21.61	19.80	21.95	38.45	-18.65
				25	0	21.47	19.66	21.81	38.45	-18.79
				1	0	22.28	20.47	22.62	38.45	-17.98
5	20525	525 836.5	OPSK	1	24	22.51	20.70	22.85	38.45	-17.75
0	5 20525 836.5	030.5	UF SK	12	6	21.47	19.66	21.81	38.45	-18.79
				25	0	21.49	19.68	21.83	38.45	-18.77
		846.5		1	0	22.41	20.60	22.75	38.45	-17.85
	20625		QPSK	1	24	22.44	20.63	22.78	38.45	-17.82
	20025	040.5	QLSK	12	6	21.80	19.99	22.14	38.45	-18.46
				25	0	21.71	19.90	22.05	38.45	-18.55
				1	0	21.70	19.89	22.04	38.45	-18.56
	20425	826.5	16QAM	1	24	20.98	19.17	21.32	38.45	-19.28
	20425	020.5	TOQAIN	12	6	20.29	18.48	20.63	38.45	-19.97
				25	0	20.58	18.77	20.92	38.45	-19.68
				1	0	20.92	19.11	21.26	38.45	-19.34
Б	20525	926 5	16QAM	1	24	21.55	19.74	21.89	38.45	-18.71
5	5 20525 836.5	030.0	TUQAIVI	12	6	20.45	18.64	20.79	38.45	-19.81
			25	0	20.53	18.72	20.87	38.45	-19.73	
			1	0	21.82	20.01	22.16	38.45	-18.44	
		160AM	1	24	21.70	19.89	22.04	38.45	-18.56	
	20020	040.0	16QAM	12	6	20.68	18.87	21.02	38.45	-19.58
				25	0	20.70	18.89	21.04	38.45	-19.56

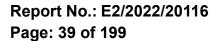




Antenna	gain (dBi)	0.34								
			LTE Ba	nd 5_Upl	ink frequ	ency band : 824	4 to 849 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.73	20.92	23.07	38.45	-17.53
	20450	829	QPSK	1	49	22.74	20.93	23.08	38.45	-17.52
	20430	02.7	QLSK	25	12	21.59	19.78	21.93	38.45	-18.67
				50	0	21.61	19.80	21.95	38.45	-18.65
				1	0	22.13	20.32	22.47	38.45	-18.13
10	20525	25 836.5	OPSK	1	49	22.51	20.70	22.85	38.45	-17.75
10		030.5	UF SK	25	12	21.61	19.80	21.95	38.45	-18.65
				50	0	21.55	19.74	21.89	38.45	-18.71
		844	QPSK	1	0	22.48	20.67	22.82	38.45	-17.78
	20600			1	49	22.79	20.98	23.13	38.45	-17.47
	20000	044	QLSK	25	12	21.78	19.97	22.12	38.45	-18.48
				50	0	21.71	19.90	22.05	38.45	-18.55
				1	0	21.46	19.65	21.80	38.45	-18.80
	20450	829	16QAM	1	15	21.54	19.73	21.88	38.45	-18.72
	20430	02.9	TOQAIN	12	0	21.80	19.99	22.14	38.45	-18.46
				16	0	20.81	19.00	21.15	38.45	-19.45
				1	0	21.47	19.66	21.81	38.45	-18.79
10	20525	926 5	16QAM	1	15	21.85	20.04	22.19	38.45	-18.41
IU	0 20525 836.5	030.0	TUQAIVI	12	0	21.71	19.90	22.05	38.45	-18.55
			16	0	20.67	18.86	21.01	38.45	-19.59	
				1	0	21.48	19.67	21.82	38.45	-18.78
	20600	844	160AM	1	15	22.00	20.19	22.34	38.45	-18.26
	20000	044	16QAM —	12	0	21.83	20.02	22.17	38.45	-18.43
				16	0	21.04	19.23	21.38	38.45	-19.22

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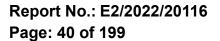




Antenna	gain (dBi)	2.47								
			LTE Ban	id 12_Up	link frequ	uency band : 69	9 to 716 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.10	22.42	24.57	34.77	-12.35
	23017	699.7	QPSK	1	5	22.45	22.77	24.92	34.77	-12.00
	23017	077.7	UF JK	3	2	22.44	22.76	24.91	34.77	-12.01
				6	0	21.41	21.73	23.88	34.77	-13.04
				1	0	22.41	22.73	24.88	34.77	-12.04
1.4	23095	707.5	QPSK	1	5	22.45	22.77	24.92	34.77	-12.00
1.4	23095	J45 707.5	QF SK	3	2	22.64	22.96	25.11	34.77	-11.81
				6	0	21.75	22.07	24.22	34.77	-12.70
			QPSK	1	0	22.53	22.85	25.00	34.77	-11.92
	23173	715.5		1	5	22.70	23.02	25.17	34.77	-11.75
	23173	/13.5		3	2	22.47	22.79	24.94	34.77	-11.98
				6	0	21.66	21.98	24.13	34.77	-12.79
				1	0	21.41	21.73	23.88	34.77	-13.04
	23017	699.7	16QAM	1	5	21.50	21.82	23.97	34.77	-12.95
	23017	077.7	TOQAM	3	2	21.63	21.95	24.10	34.77	-12.82
				6	0	20.43	20.75	22.90	34.77	-14.02
				1	0	21.70	22.02	24.17	34.77	-12.75
1.4	23095	707.5	16QAM	1	5	21.63	21.95	24.10	34.77	-12.82
1.4	23075	101.5	TUQAIVI	3	2	21.86	22.18	24.33	34.77	-12.59
				6	0	20.79	21.11	23.26	34.77	-13.66
			715.5 16QAM -	1	0	21.67	21.99	24.14	34.77	-12.78
	23173	715.5		1	5	21.66	21.98	24.13	34.77	-12.79
	23173	710.0	TUQAIVI	3	2	21.81	22.13	24.28	34.77	-12.64
				6	0	20.67	20.99	23.14	34.77	-13.78

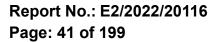
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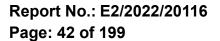


Antenna	gain (dBi)	2.47								
		1	LTE Bar	nd 12_Up	link frequ	uency band : 69	9 to 716 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.41	22.73	24.88	34.77	-12.04
	23025	700.5	QPSK	1	14	22.40	22.72	24.87	34.77	-12.05
	23023	700.5	UPSK	8	4	21.55	21.87	24.02	34.77	-12.90
				15	0	21.53	21.85	24.00	34.77	-12.92
				1	0	22.62	22.94	25.09	34.77	-11.83
3	23095	707.5	QPSK	1	14	22.77	23.09	25.24	34.77	-11.68
3	3 23095 707.5	707.5	UPSK	8	4	21.82	22.14	24.29	34.77	-12.63
				15	0	21.78	22.10	24.25	34.77	-12.67
			14.5 QPSK	1	0	22.56	22.88	25.03	34.77	-11.89
	23165	714.5		1	14	22.41	22.73	24.88	34.77	-12.04
	23103	/14.5	QLSK	8	4	21.61	21.93	24.08	34.77	-12.84
				15	0	21.54	21.86	24.01	34.77	-12.91
				1	0	21.52	21.84	23.99	34.77	-12.93
	23025	700.5	16QAM	1	14	21.51	21.83	23.98	34.77	-12.94
	23025	700.5	TOQAIN	8	4	20.45	20.77	22.92	34.77	-14.00
				15	0	20.32	20.64	22.79	34.77	-14.13
				1	0	21.36	21.68	23.83	34.77	-13.09
3	22005	707 5	16QAM	1	14	21.55	21.87	24.02	34.77	-12.90
3	23095 707.5	101.5	TOUAIVI	8	4	20.74	21.06	23.21	34.77	-13.71
		165 714.5 16QAM		15	0	20.70	21.02	23.17	34.77	-13.75
				1	0	21.34	21.66	23.81	34.77	-13.11
	23165		16QAM	1	14	21.50	21.82	23.97	34.77	-12.95
	23103	/ 14.0	TUQAIVI	8	4	20.72	21.04	23.19	34.77	-13.73
				15	0	20.24	20.56	22.71	34.77	-14.21



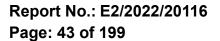


Antenna	gain (dBi)	2.47								
		1	LTE Bar	nd 12_Up	link frequ	uency band : 69	9 to 716 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.30	22.62	24.77	34.77	-12.15
	23035	701.5	QPSK	1	24	21.96	22.28	24.43	34.77	-12.49
	23035	701.5	UF SK	12	6	21.48	21.80	23.95	34.77	-12.97
				25	0	21.45	21.77	23.92	34.77	-13.00
				1	0	22.53	22.85	25.00	34.77	-11.92
5	23095	5 707.5	QPSK	1	24	22.45	22.77	24.92	34.77	-12.00
5	5 23095 707.5	101.5		12	6	21.72	22.04	24.19	34.77	-12.73
				25	0	21.72	22.04	24.19	34.77	-12.73
			QPSK	1	0	22.31	22.63	24.78	34.77	-12.14
	23155	713.5		1	24	22.23	22.55	24.70	34.77	-12.22
	23133	715.5	QLOK	12	6	21.52	21.84	23.99	34.77	-12.93
				25	0	21.43	21.75	23.90	34.77	-13.02
				1	0	21.17	21.49	23.64	34.77	-13.28
	23035	701.5	16QAM	1	24	21.24	21.56	23.71	34.77	-13.21
	23033	701.5	TOCAM	12	6	20.32	20.64	22.79	34.77	-14.13
				25	0	20.35	20.67	22.82	34.77	-14.10
				1	0	21.40	21.72	23.87	34.77	-13.05
5	22005	707 5	16QAM	1	24	21.31	21.63	23.78	34.77	-13.14
J	23095 707.5	101.5	102AW	12	6	20.55	20.87	23.02	34.77	-13.90
				25	0	20.57	20.89	23.04	34.77	-13.88
				1	0	21.86	22.18	24.33	34.77	-12.59
	23155	713.5 16QAM	16QAM	1	24	21.39	21.71	23.86	34.77	-13.06
	23133	715.5		12	6	20.23	20.55	22.70	34.77	-14.22
				25	0	20.47	20.79	22.94	34.77	-13.98





Antenna	gain (dBi)	2.47								
			LTE Bar	nd 12_Up	link frequ	uency band : 69	9 to 716 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.00	22.32	24.47	34.77	-12.45
	23060	704	QPSK	1	49	22.63	22.95	25.10	34.77	-11.82
	23000	704	QLSK	25	12	21.53	21.85	24.00	34.77	-12.92
				50	0	21.64	21.96	24.11	34.77	-12.81
				1	0	22.42	22.74	24.89	34.77	-12.03
10	23005	23095 707.5	QPSK	1	49	22.37	22.69	24.84	34.77	-12.08
10	23075		UF SK	25	12	21.56	21.88	24.03	34.77	-12.89
			50	0	21.61	21.93	24.08	34.77	-12.84	
			QPSK	1	0	22.22	22.54	24.69	34.77	-12.23
	23130	711		1	49	22.38	22.70	24.85	34.77	-12.07
	23130	/ 1 1		25	12	21.54	21.86	24.01	34.77	-12.91
				50	0	21.63	21.95	24.10	34.77	-12.82
				1	0	21.51	21.83	23.98	34.77	-12.94
	23060	704	16QAM	1	15	21.75	22.07	24.22	34.77	-12.70
	23000	704	TOQAIN	12	0	21.93	22.25	24.40	34.77	-12.52
				16	0	20.82	21.14	23.29	34.77	-13.63
				1	0	21.13	21.45	23.60	34.77	-13.32
10	23095	707 5	1600M	1	15	21.92	22.24	24.39	34.77	-12.53
10	23075		TUQAIVI	12	0	21.74	22.06	24.21	34.77	-12.71
				16	0	21.05	21.37	23.52	34.77	-13.40
				1	0	21.42	21.74	23.89	34.77	-13.03
	23130		16QAM	1	15	21.59	21.91	24.06	34.77	-12.86
	23130	/ 1 1	TUQAIVI	12	0	22.06	22.38	24.53	34.77	-12.39
				16	0	21.00	21.32	23.47	34.77	-13.45

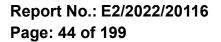




Antenna	gain (dBi)	1.75								
		<u> </u>	LTE Bar	nd 13_Up	link frequ	uency band : 77	'7 to 787 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.63	22.23	24.38	34.77	-12.54
	23205	779.5	QPSK	1	24	22.11	21.71	23.86	34.77	-13.06
	23203	117.5	UF JK	12	6	21.47	21.07	23.22	34.77	-13.70
				25	0	21.43	21.03	23.18	34.77	-13.74
				1	0	22.53	22.13	24.28	34.77	-12.64
5	23230	782	QPSK	1	24	22.08	21.68	23.83	34.77	-13.09
5	5 23230 762	702		12	6	21.48	21.08	23.23	34.77	-13.69
				25	0	21.48	21.08	23.23	34.77	-13.69
			784.5 QPSK	1	0	22.49	22.09	24.24	34.77	-12.68
	23255	784.5		1	24	22.27	21.87	24.02	34.77	-12.90
	23233	704.5	QI SIX	12	6	21.51	21.11	23.26	34.77	-13.66
				25	0	21.63	21.23	23.38	34.77	-13.54
				1	0	21.36	20.96	23.11	34.77	-13.81
	23205	779.5	16QAM	1	24	21.25	20.85	23.00	34.77	-13.92
	23203	117.5	TOCAM	12	6	20.22	19.82	21.97	34.77	-14.95
				25	0	20.33	19.93	22.08	34.77	-14.84
				1	0	21.93	21.53	23.68	34.77	-13.24
5	23230	782	16QAM	1	24	21.28	20.88	23.03	34.77	-13.89
J	23230	102		12	6	20.37	19.97	22.12	34.77	-14.80
	23255 784.5		25	0	20.50	20.10	22.25	34.77	-14.67	
			1	0	21.19	20.79	22.94	34.77	-13.98	
		16QAM	1	24	21.21	20.81	22.96	34.77	-13.96	
	23233	704.5	10QAW	12	6	20.34	19.94	22.09	34.77	-14.83
				25	0	20.46	20.06	22.21	34.77	-14.71

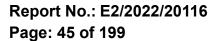
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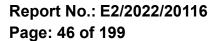


Antenna	gain (dBi)	1.75								
			LTE Bar	id 13_Up	link frequ	uency band : 77	7 to 787 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.39	21.99	24.14	34.77	-12.78
10	23230	782	QPSK	1	49	22.46	22.06	24.21	34.77	-12.71
			UPSK	25	12	21.42	21.02	23.17	34.77	-13.75
				50	0	21.45	21.05	23.20	34.77	-13.72
				1	0	21.33	20.93	23.08	34.77	-13.84
10	23230	782	160AM	1	15	21.37	20.97	23.12	34.77	-13.80
	20200		16QAM	12	0	21.90	21.50	23.65	34.77	-13.27
				16	0	20.75	20.35	22.50	34.77	-14.42



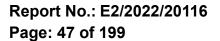


Antenna	gain (dBi)	2.47								
		<u> </u>	LTE Bar	nd 17_Up	link frequ	uency band : 70	4 to 716 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.56	22.88	25.03	34.77	-11.89
	23755	706.5	QPSK	1	24	22.45	22.77	24.92	34.77	-12.00
	23733	700.5	QLSK	12	6	21.73	22.05	24.20	34.77	-12.72
				25	0	21.67	21.99	24.14	34.77	-12.78
				1	0	22.82	23.14	25.29	34.77	-11.63
5	23790	710	QPSK	1	24	22.51	22.83	24.98	34.77	-11.94
J	5 23/90 /10	710	QLOK	12	6	21.45	21.77	23.92	34.77	-13.00
				25	0	21.57	21.89	24.04	34.77	-12.88
		713 5	713.5 QPSK	1	0	22.34	22.66	24.81	34.77	-12.11
	23825			1	24	22.03	22.35	24.50	34.77	-12.42
	23023	715.5		12	6	21.52	21.84	23.99	34.77	-12.93
				25	0	21.52	21.84	23.99	34.77	-12.93
				1	0	21.54	21.86	24.01	34.77	-12.91
	23755	706.5	16QAM	1	24	21.34	21.66	23.81	34.77	-13.11
	23733	700.5	TOCAM	12	6	20.56	20.88	23.03	34.77	-13.89
				25	0	20.54	20.86	23.01	34.77	-13.91
				1	0	21.49	21.81	23.96	34.77	-12.96
5	23790	710	16QAM	1	24	21.44	21.76	23.91	34.77	-13.01
5	5 23790 710	/10	TOCAM	12	6	20.26	20.58	22.73	34.77	-14.19
			25	0	20.64	20.96	23.11	34.77	-13.81	
		23825 713.5 16		1	0	21.40	21.72	23.87	34.77	-13.05
	23825		160AM	1	24	21.10	21.42	23.57	34.77	-13.35
	23023	715.5	16QAM	12	6	20.26	20.58	22.73	34.77	-14.19
				25	0	20.44	20.76	22.91	34.77	-14.01



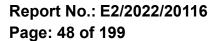


Antenna	gain (dBi)	2.47								
			LTE Ban	nd 17_Up	link frequ	uency band : 70	4 to 716 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.58	22.90	25.05	34.77	-11.87
	23780	709	QPSK	1	49	22.80	23.12	25.27	34.77	-11.65
	23700	707	UF JK	25	12	21.64	21.96	24.11	34.77	-12.81
				50	0	21.60	21.92	24.07	34.77	-12.85
				1	0	22.51	22.83	24.98	34.77	-11.94
10	23790	710	QPSK	1	49	22.60	22.92	25.07	34.77	-11.85
10	10 23740 710	QLSK	25	12	21.57	21.89	24.04	34.77	-12.88	
			50	0	21.64	21.96	24.11	34.77	-12.81	
			OPSK	1	0	22.38	22.70	24.85	34.77	-12.07
	23800	711		1	49	22.26	22.58	24.73	34.77	-12.19
	23000	/ 11	QUSIC	25	12	21.54	21.86	24.01	34.77	-12.91
				50	0	21.61	21.93	24.08	34.77	-12.84
				1	0	21.35	21.67	23.82	34.77	-13.10
	23780	709	16QAM	1	15	22.33	22.65	24.80	34.77	-12.12
	23700	107		12	0	22.08	22.40	24.55	34.77	-12.37
				16	0	21.11	21.43	23.58	34.77	-13.34
				1	0	21.59	21.91	24.06	34.77	-12.86
10	23700	710	16QAM	1	15	22.15	22.47	24.62	34.77	-12.30
10	23770	23790 710 160		12	0	22.37	22.69	24.84	34.77	-12.08
				16	0	21.13	21.45	23.60	34.77	-13.32
				1	0	21.55	21.87	24.02	34.77	-12.90
	23800	711	16QAM	1	15	21.88	22.20	24.35	34.77	-12.57
	23000	/ ! !		12	0	22.37	22.69	24.84	34.77	-12.08
				16	0	20.86	21.18	23.33	34.77	-13.59



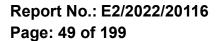


Antenna	gain (dBi)	2.19							
		L	TE Band 66_Up	link freq	uency ba	nd : 1710 to 178	80 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.57	23.76	30	-6.24
	131979	1710.7	QPSK	1	5	21.60	23.79	30	-6.21
	131777	1710.7	QUSK	3	2	21.62	23.81	30	-6.19
				6	0	20.60	22.79	30	-7.21
				1	0	21.34	23.53	30	-6.47
1.4	132322	1745	QPSK	1	5	21.37	23.56	30	-6.44
1.4	132322	1745	QF 3K	3	2	21.59	23.78	30	-6.22
				6	0	20.44	22.63	30	-7.37
				1	0	21.72	23.91	30	-6.09
	132665	665 1779.3	ODSK	1	5	21.67	23.86	30	-6.14
	132005	1779.3	QPSK	3	2	21.71	23.90	30	-6.1
				6	0	20.75	22.94	30	-7.06
				1	0	20.26	22.45	30	-7.55
	131979	1710.7	16QAM	1	5	20.43	22.62	30	-7.38
	131979	1710.7	TOQAIN	3	2	20.82	23.01	30	-6.99
				6	0	19.45	21.64	30	-8.36
				1	0	20.69	22.88	30	-7.12
1.4	132322	1745	16QAM	1	5	20.33	22.52	30	-7.48
1.4	132322	1745	TOQAIVI	3	2	20.56	22.75	30	-7.25
			6	0	19.25	21.44	30	-8.56	
				1	0	21.02	23.21	30	-6.79
	132665 1779.3	16QAM	1	5	20.97	23.16	30	-6.84	
	132003	1//7.3	TOQAIVI	3	2	20.68	22.87	30	-7.13
			6	0	19.65	21.84	30	-8.16	





Antenna	gain (dBi)	2.19							
		L	TE Band 66_Up	link freq	uency ba	nd : 1710 to 178	80 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.63	23.82	30	-6.18
	131987	1711.5	QPSK	1	14	21.87	24.06	30	-5.94
	131907	1711.5	UF 3K	8	4	20.53	22.72	30	-7.28
				15	0	20.39	22.58	30	-7.42
				1	0	21.72	23.91	30	-6.09
3	132322	1745	QPSK	1	14	21.61	23.80	30	-6.2
5	132322	1745	UF 3N	8	4	20.48	22.67	30	-7.33
				15	0	20.48	22.67	30	-7.33
			1	0	21.46	23.65	30	-6.35	
	132657			1	14	21.32	23.51	30	-6.49
	132037	1778.5	QPSK	8	4	20.55	22.74	30	-7.26
				15	0	20.57	22.76	30	-7.24
				1	0	20.14	22.33	30	-7.67
	131987	1711.5	16QAM	1	14	20.30	22.49	30	-7.51
	131967	1711.5	TOQAIVI	8	4	19.72	21.91	30	-8.09
				15	0	19.47	21.66	30	-8.34
				1	0	20.61	22.80	30	-7.2
3	12222	1745	16QAM	1	14	20.00	22.19	30	-7.81
3	132322	1745	TOQAIVI	8	4	19.52	21.71	30	-8.29
			15	0	19.37	21.56	30	-8.44	
		100/F7 1770 F		1	0	20.52	22.71	30	-7.29
	122457		16QAM	1	14	20.32	22.51	30	-7.49
	132657 1778.5	TOQAIVI	8	4	19.78	21.97	30	-8.03	
				15	0	19.62	21.81	30	-8.19





		L	TE Band 66_Up	link freq	uency ba	nd : 1710 to 178	80 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.41	23.60	30	-6.4
	131997	1712.5	QPSK	1	24	21.73	23.92	30	-6.08
	131777	1712.5	UI JK	12	6	20.40	22.59	30	-7.41
	5 132322 1745		25	0	20.39	22.58	30	-7.42	
			1	0	21.59	23.78	30	-6.22	
Б		OPSK	1	24	21.64	23.83	30	-6.17	
5		UF 3K	12	6	20.38	22.57	30	-7.43	
				25	0	20.46	22.65	30	-7.35
	132647	1777.5	QPSK	1	0	21.69	23.88	30	-6.12
				1	24	21.46	23.65	30	-6.35
	132047	1777.5		12	6	20.50	22.69	30	-7.31
				25	0	20.58	22.77	30	-7.23
				1	0	19.99	22.18	30	-7.82
	131997	1712.5	16QAM	1	24	20.06	22.25	30	-7.75
	131997	1712.0	TOQAIN	12	6	19.39	21.58	30	-8.42
				25	0	19.42	21.61	30	-8.39
				1	0	20.32	22.51	30	-7.49
5	132322	1745	16QAM	1	24	20.11	22.30	30	-7.7
5	132322	1740	TUQAIVI	12	6	19.28	21.47	30	-8.53
				25	0	19.44	21.63	30	-8.37
				1	0	20.79	22.98	30	-7.02
	132647	1777.5	16QAM	1	24	20.13	22.32	30	-7.68
	132047	1777.0	TUQAIVI	12	6	19.34	21.53	30	-8.47
				25	0	19.49	21.68	30	-8.32

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Antenna	gain (dBi)	2.19							
		L	TE Band 66_Up	link freq	uency ba	nd : 1710 to 178	80 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.82	24.01	30	-5.99
	132022	1715	QPSK	1	49	21.26	23.45	30	-6.55
	132022	1715	QUSK	25	12	20.61	22.80	30	-7.2
				50	0	20.61	22.80	30	-7.2
	132322			1	0	21.69	23.88	30	-6.12
10		1745	QPSK	1	49	21.42	23.61	30	-6.39
			QP3K	25	12	20.59	22.78	30	-7.22
				50	0	20.65	22.84	30	-7.16
	132622	1775	QPSK	1	0	21.96	24.15	30	-5.85
				1	49	21.51	23.70	30	-6.3
				25	12	20.73	22.92	30	-7.08
				50	0	20.78	22.97	30	-7.03
				1	0	20.56	22.75	30	-7.25
	132022	1715	16QAM	1	15	20.75	22.94	30	-7.06
	132022	1715	TOCAN	12	0	20.94	23.13	30	-6.87
				16	0	19.85	22.04	30	-7.96
				1	0	20.91	23.10	30	-6.9
10	132322	1745	16QAM	1	15	20.85	23.04	30	-6.96
10	132322	1745	TOQAIVI	12	0	20.54	22.73	30	-7.27
				16	0	19.75	21.94	30	-8.06
				1	0	21.31	23.50	30	-6.5
	132622	1775	16QAM	1	15	20.40	22.59	30	-7.41
	132022	1775	TOUAIVI	12	0	20.89	23.08	30	-6.92
				16	0	19.92	22.11	30	-7.89

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.

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Antenna	gain (dBi)	2.19							
		L	TE Band 66_Up	link freq	uency ba	nd : 1710 to 178	80 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.56	23.75	30	-6.25
	132047	1717.5	QPSK	1	74	21.58	23.77	30	-6.23
	132047	1717.5	QUSK	36	18	20.48	22.67	30	-7.33
			75	0	20.62	22.81	30	-7.19	
				1	0	21.68	23.87	30	-6.13
15	132322	1745	QPSK	1	74	21.75	23.94	30	-6.06
	132322	1745	QPSK	36	18	20.60	22.79	30	-7.21
				75	0	20.67	22.86	30	-7.14
	132597	1772.5	QPSK	1	0	21.78	23.97	30	-6.03
				1	74	21.73	23.92	30	-6.08
	132377			36	18	20.99	23.18	30	-6.82
				75	0	20.63	22.82	30	-7.18
				1	0	20.34	22.53	30	-7.47
	132047	1717.5	16QAM	1	15	20.65	22.84	30	-7.16
	132047	1717.5	TOCAW	12	0	20.82	23.01	30	-6.99
				16	0	20.70	22.89	30	-7.11
				1	0	20.54	22.73	30	-7.27
15	132322	1745	16QAM	1	15	20.42	22.61	30	-7.39
10	132322	1745	TOCAW	12	0	20.69	22.88	30	-7.12
				16	0	20.63	22.82	30	-7.18
				1	0	21.01	23.20	30	-6.8
	132597	1772.5	16QAM	1	15	20.64	22.83	30	-7.17
	132377	1772.3		12	0	20.64	22.83	30	-7.17
				16	0	20.67	22.86	30	-7.14

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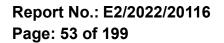
Taiwan Ltd.

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Antenna	gain (dBi)	2.19							
		L	TE Band 66_Up	link freq	uency ba	nd : 1710 to 178	0 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.51	23.70	30	-6.3
	132072	1720	QPSK	1	99	21.17	23.36	30	-6.64
	102012		Q. OIL	50	25	20.41	22.60	30	-7.4
				100	0	20.59	22.78	30	-7.22
	132322	1745		1	0	21.73	23.92	30	-6.08
20			QPSK	1	99	21.67	23.86	30	-6.14
20				50	25	20.71	22.90	30	-7.1
				100	0	20.56	22.75	30	-7.25
		1770	OPSK	1	0	21.80	23.99	30	-6.01
	132572			1	99	21.31	23.50	30	-6.5
	102012		QI OIX	50	25	20.89	23.08	30	-6.92
				100	0	20.50	22.69	30	-7.31
				1	0	20.46	22.65	30	-7.35
	132072	1720	16QAM	1	17	20.72	22.91	30	-7.09
				18	0	20.74	22.93	30	-7.07
				1	0	20.98	23.17	30	-6.83
20	132322	1745	16QAM	1	17	20.58	22.77	30	-7.23
				18	0	20.59	22.78	30	-7.22
				1	0	20.96	23.15	30	-6.85
	132572	1770	16QAM	1	17	20.37	22.56	30	-7.44
				18	0	20.35	22.54	30	-7.46

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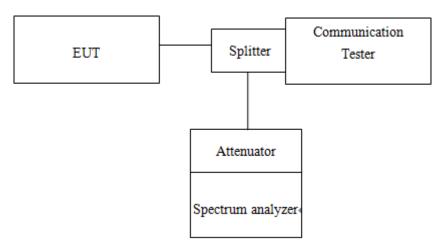


8 OCCUPIED BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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.

8.2 Test Set-up



8.3 Measurement Procedure

99% &26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 * RBW, with span > 2 * Signal BW, set % Power = 99%.

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about $1\% \sim 5\%$ of emission BW, VBW= 3 times RBW. Set RBW= $1\% \sim 5\%$, VBW= 3 * RBW, with span > 2 * Signal BW, set % Power = 99%.

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8.4 **Measurement Result**

LTE BAND 2 Channel bandwidth: 1.4MHz									
Freq.	СН	99% BV	V (MHz)	26 dB BW (MHz)					
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM				
1850.7	18607	1.0868	1.0883	1.267	1.296				
1880.0	18900	1.0868	1.0883	1.261	1.288				
1909.3	19193	1.0824	1.0882	1.293	1.288				

	LTE BAND 2 Channel bandwidth: 5MHz									
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)						
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM					
1852.5	18625	4.4857	4.4910	4.992	5.023					
1880.0	18900	4.4846	4.4895	5.010	4.976					
1907.5	19175	4.4915	4.4925	5.006	4.976					

	LTE BANI	D 2 Channe	el bandwid	th: 15MHz					
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)					
(MHz)	СП	QPSK	16QAM	QPSK	16QAM				
1857.5	18675	13.375	3.1979	14.51	4.579				
1880.0	18900	13.436	3.1975	14.64	4.149				
1902.5	19125	13.414	3.1657	14.50	4.273				
LTE BAND 4 Channel bandwidth: 1.4MHz									
	LTE BAND	0 4 Channe	el bandwidt	h: 1.4MHz					
Freq.			el bandwidt V (MHz)		W (MHz)				
Freq. (MHz)	LTE BANE								
		99% BV	V (MHz)	26 dB B	W (MHz)				
(MHz)	СН	99% BV QPSK	V (MHz) 16QAM	26 dB B QPSK	W (MHz) 16QAM				

	LTE BAND 4 Channel bandwidth: 5MHz									
Freq.	СН	99% BV	V (MHz)	26 dB BW (MHz)						
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM					
1712.5	19975	4.4837	4.4893	5.010	4.960					
1732.5	20175	4.4879	4.4882	5.030	4.987					
1752.5	20375	4.4917	4.4925	5.006	4.974					

	LTE BAND 4 Channel bandwidth: 15MHz									
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)						
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM					
1717.5	20025	13.378	3.1751	14.51	4.330					
1732.5	20175	13.416	3.1695	14.56	4.280					
1747.5	20325	13.427	3.1772	14.58	4.467					

ſ	LTE BAND 2 Channel bandwidth: 3MHz									
	Freq.	СН	99% BV	V (MHz)	26 dB BW (MHz)					
	(MHz)	CIT	QPSK	16QAM	QPSK	16QAM				
	1851.5	18615	2.6858	2.6899	2.947	2.964				
	1880.0	18900	2.6849	2.6912	2.958	2.964				
	1908.5	19185	2.6862	2.6888	2.947	2.969				

	LTE BAND 2 Channel bandwidth: 10MHz									
Freq.	СН	99% BV	99% BW (MHz)		26 dB BW (MHz)					
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM					
1855.0	18650	8.9443	3.0502	9.757	3.726					
1880.0	18900	8.9490	3.0713	9.868	4.043					
1905.0	19150	8.9634	3.0425	9.851	3.781					

	LTE BAND	2 Channe	el bandwid	th: 20MHz		
Freq.	СН	99% BV	V (MHz)	26 dB BW (MHz)		
(MHz)	СП	QPSK	16QAM	QPSK	16QAM	
1860.0	18700	17.770	3.766	19.15	5.573	
1880.0	18900	17.893	3.678	19.36	5.309	
1900.0	19100	17.790	3.757	19.18	5.326	
	LTE BAN	D 4 Chann	el bandwic	Ith: 3MHz		
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)	
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM	
1711.5	19965	2.6842	2.6865	2.941	2.971	
1732.5	20175	2.6883	2.6899	2.960	2.955	
1753.5	20385	2.6864	2.6894	2.951	2.961	

LTE BAND 4 Channel bandwidth: 10MHz								
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)			
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM			
1715.0	20000	8.9455	3.0481	9.795	3.794			
1732.5	20175	8.9567	3.0475	9.793	3.991			
1750.0	20350	8.9729	3.0523	9.848	4.121			

LTE BAND 4 Channel bandwidth: 20MHz							
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
1720.0	20050	17.800	3.7599	19.18	5.156		
1732.5	20175	17.833	3.6977	19.31	5.266		
1745.0	20300	17.858	3.6976	19.34	5.234		

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LTE BAND 5 Channel bandwidth: 1.4MHz								
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)			
(MHz)	СП	QPSK	16QAM	QPSK	16QAM			
824.7	20407	1.0866	1.0867	1.286	1.269			
836.5	20525	1.0868	1.0867	1.266	1.272			
848.3	20643	1.0876	1.0874	1.278	1.269			

LTE BAND 5 Channel bandwidth: 5MHz							
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)		QPSK	16QAM	QPSK	16QAM		
826.5	20425	4.4838	4.4778	4.998	4.966		
836.5	20525	4.4859	4.4915	4.969	4.970		
846.5	20625	4.4852	4.4917	4.993	4.980		
LTE BAND 12 Channel bandwidth: 1.4MHz							
					_		
Freq.		99% BV			W (MHz)		
Freq. (MHz)	CH						
		99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	СН	99% BV QPSK	V (MHz) 16QAM	26 dB B QPSK	W (MHz) 16QAM		

LTE BAND 12 Channel bandwidth: 5MHz							
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)			
(MHz)	СП	QPSK	16QAM	QPSK	16QAM		
701.5	23035	4.4759	4.4830	4.961	4.956		
707.5	23095	4.4883	4.4901	4.983	4.997		
713.5	23155	4.4802	4.4789	4.974	4.952		
	LTE BAN	0 13 Chanr	nel bandwi	dth: 5MHz			
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
779.5	23205	4.4880	4.4941	4.949	4.989		
782.0	23230	4.4770	4.4797	4.979	4.958		
784.5	23255	4.4848	4.4863	4.985	4.961		
	LTE BAN	0 17 Chanr	nel bandwi	dth: 5MHz			
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
706.5	23755	4.4911	4.4873	5.010	4.964		
710.0	23790	4.4874	4.4908	4.991	4.965		
713.5	23825	4.4796	4.4831	4.954	4.948		

LTE BAND 5 Channel bandwidth: 3MHz							
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
825.5	20415	2.6842	2.6911	2.945	2.960		
836.5	20525	2.6893	2.6892	2.968	2.967		
847.5	20635	2.6855	2.6911	2.938	2.962		

LTE BAND 5 Channel bandwidth: 10MHz							
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
829.0	20450	8.9515	3.0526	9.758	3.809		
836.5	20525	8.9620	3.0503	9.809	3.815		
844.0	20600	8.9552	3.0359	9.738	3.798		
LTE BAND 12 Channel bandwidth: 3MHz							
	LTE BAND	D 12 Chanr	nel bandwi	dth: 3MHz			
Freq.			nel bandwi V (MHz)		W (MHz)		
Freq. (MHz)	LTE BANE CH				w (MHz) 16QAM		
		99% BV	V (MHz)	26 dB B	, ,		
(MHz)	СН	99% BV QPSK	V (MHz) 16QAM	26 dB B QPSK	16QAM		

LTE BAND 12 Channel bandwidth: 10MHz							
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	OIT	QPSK	16QAM	QPSK	16QAM		
704.0	23060	8.9521	3.0158	9.731	3.670		
707.5	23095	8.9849	3.0240	9.795	3.692		
711.0	23130	8.9434	3.0536	9.703	3.812		
	lte band	13 Chann	el bandwic	Ith: 10MHz			
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)		QPSK	16QAM	QPSK	16QAM		
782.0	23230	8.9372	3.0287	9.713	3.787		

LTE BAND 17 Channel bandwidth: 10MHz							
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
709.0	23780	8.9639	3.0425	9.792	3.686		
710.0	23790	8.9542	3.0520	9.755	3.780		
711.0	23800	8.9438	3.0486	9.714	3.755		

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LTE BAND 66 Channel bandwidth: 1.4MHz								
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)			
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM			
1710.7	131979	1.0867	1.0872	1.261	1.261			
1745.0	132322	1.0867	1.0862	1.264	1.261			
1779.3	132665	1.0861	1.0866	1.270	1.261			

LTE BAND 66 Channel bandwidth: 5MHz								
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)			
(MHz)	СП	QPSK	16QAM	QPSK	16QAM			
1712.5	131997	4.4801	4.4897	4.970	4.968			
1745.0	132322	4.4876	4.4918	4.986	4.989			
1777.5	132647	4.4881	4.4881	4.962	4.962			

LTE BAND 66 Channel bandwidth: 15MHz							
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
1717.5	132047	13.407	3.1568	14.42	4.063		
1745.0	132322	13.441	3.0253	14.53	3.782		
1772.5	132597	13.399	2.9841	14.48	3.738		

	LTE BAND 66 Channel bandwidth: 3MHz								
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)				
(MHz)	CIT	QPSK 16QAM QPS			16QAM				
1711.5	131987	2.6878	2.6922	2.947	2.956				
1745.0	132322	2.6876	2.6897	2.941	2.969				
1778.5	132657	2.6885	2.6870	2.944	2.959				

	LTE BAND 66 Channel bandwidth: 10MHz							
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)			
(MHz)	CIT	QPSK 16QAM QF			16QAM			
1715.0	132022	8.9615	3.0303	9.771	3.699			
1745.0	132322	8.9480	3.0275	9.738	3.757			
1775.0	132622	8.9631	2.8651	9.776	3.403			

	LTE BAND 66 Channel bandwidth: 20MHz						
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
1720.0	132072	17.782	3.6544	19.19	4.764		
1745.0	132322	17.884	3.6907	19.35	4.970		
1770.0	132572	17.808	3.6750	19.12	4.779		

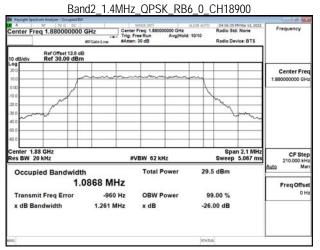
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Band2 1.4MHz QPSK RB6 0 CH18607

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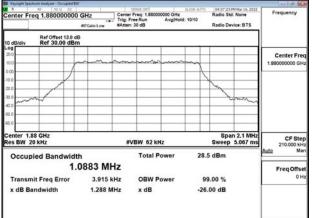
Band2 1.4MHz QPSK RB6 0 CH19193

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10 dB/div	Ref Offset 13.8 dE Ref 30.00 dBm					
200 100 100 200 100 200 200 400 400 500			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		han and a second	Center Freq 1.00930000 GHz 210.000 kHz Auto Man Freq Offset 0 Hz
Center 1.9 Res BW 2	0 kHz		#VBW 62 kHz	Swe	Span 2.1 MHz sep 5.067 ms	
Occup	ied Bandwidt	0824 MHz	Total Power	29.9 dBr	m	
	it Freq Error Indwidth	-1.067 kHz 1.293 MHz	OBW Power x dB	99.00 ⁰ -26.00 d		
650				status		

Band2_1.4MHz_16QAM_RB6_0_CH18607

Radio Std: None Radio Device: BTS	10'10	eq: 1.850700000 GHz Run Avg Hold			1.850700000	
		0 dB	#Atten:	#FGein:Low		Serie Fre
					Ref Offset 13.8 dE Ref 30.00 dBm	10 dB/div
	any	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		m		20.0 10.0
			-	-		10.00
June			-			30.0
			-	_		40.0 50.0
Span 2.1 MHz						Center 1.8
			#4	h		
				1.0883 M		
.00 %	99	OBW Power	kHz	4.565	Freq Error	Transm
00 dB	-26.	x dB	MHz	1.296 1	dwidth	x dB Ba
MHz	Span 2.1 Sweep 5.06 dBm .00 %	Span 2.1 Sweep 5.06	Span 2.1 BW 62 kHz Sweep 5.06 Total Power 28.8 dBm OBW Power 99.00 %	#VBW 62 kHz Span 2.1 #VBW 62 kHz Sweep 5.06 Total Power 28.8 dBm Hz kHz OBW Power 99.00 %	svBW 62 kHz Span 2.1 svBW 62 kHz Sweep 5.06 h Total Power 28.8 dBm 2883 MHz 4.565 kHz OBW Power 99.00 %	51 GHz Span 2.1 51 GHz #VBW 52 kHz Span 2.1 0 kHz #VBW 52 kHz Sweep 5.06 led Bandwidth Total Power 28.8 dBm 1.0883 MHz it Freq Error 4.565 kHz OBW Power 99.00 %

Band2 1.4MHz 16QAM RB6 0 CH18900



Band2 1.4MHz 16QAM RB6 0 CH19193

Keysight Spect	RF 50.0 CC		SENSE ONT	ALIGN AUTO 11:10:51 AM Mar 14	2022
Center Fre	eq 1.909300000	Trig.	er Freq: 1.909300000 GHz Free Run Avg Hold en: 30 dB	Radio Std: None : 10/10 Radio Device: B1	Frequency
10 dB/div	Ref Offset 13.8 dl Ref 30.00 dBn				
20.0		mm			Center Free 1.909300000 GHz
-10.0					_
40.0				- Marrie	Mar.
Center 1.9				Span 2.1	
Res BW 2	0 kHz		#VBW 62 kHz	Sweep 5.067	ms 210.000 kHz
Occup	ied Bandwidt	h	Total Power	29.0 dBm	Auto Man
	1.	0882 MHz			Freq Offset
Transm	it Freq Error	3.258 kHz	OBW Power	99.00 %	0 Hz
x dB Ba	andwidth	1.288 MHz	x dB	-26.00 dB	
MSG				status	

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Band2 3MHz QPSK RB15 0 CH18615

Keysight Spectrum Analyzer - Occupied BW	5	and a state of the state of the	1995/124-024			0-0-0-	
Center Freq 1.851500000	Trig	er Freq: 1.851500000 GHz Free Run Avg/Hold en: 30 dB	4.16N AUTO	Radio Std Radio Der		Frequency	
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm							
200 200 200	<u></u>					Center Free 1.851500000 GH	
10.0				1	~~~~~		
43.0							
60.0							
Center 1.852 GHz Res BW 43 kHz		Span 4.5 MHz #VBW 130 kHz Sweep 2.333 ms					
Occupied Bandwidth		Total Power	30.0) dBm		Auto Mar Freq Offsel 0 Ha	
2.6	6858 MHz						
Transmit Freq Error	3.051 kHz	OBW Power	99	.00 %			
x dB Bandwidth	2.947 MHz	x dB	-26.	00 dB			
esa			Statu	5			

R	autor Analyser - Occupied BW RF 38 0 00 eq 1.88800000000	Trig I	sense anti r Freq: 1.880000000 GHz Free Run AvgiHok a: 30 dB	ALIGN AUTO d: 10/10	Radio St	to: None evice: BTS	Frequency
10 dB/div	Ref Offset 13.8 dE Ref 30.00 dBm						
.09 20.0 10.0				~~~		_	Center Fred 1.88000000 GHz
10.0					1		
0.0						****	
enter 1.1						an 4.5 MHz	CF Stee
Occup	is kHz bied Bandwidt		#VBW 130 kHz Sweep 2.333 ms Total Power 29.9 dBm				450.000 kH Auto Mar Freq Offse
	2.0	6849 MHz	z				
	nit Freq Error andwidth	499 Hz 2.958 MHz	OBW Power x dB	100	9.00 % .00 dB		0 Hz
0				statu	5		

Band2 3MHz QPSK RB15 0 CH19185

Keysight Sp	ectrum Analyser - Occup				in the second second			-0-0-
Center F	req 1.908500		Center Trig: F	Freq: 1.908500000 ree Run Av : 30 dB	GHz g Hold: 10/10	Radio Std: Radio Devi	1000	Frequency
10 dB/div	Ref Offset 13 Ref 30.00							
20.0 10.0		~~~~~~			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Center Freq 1.908500000 GHz
10.0						\backslash		
40.0	-	_	_	-	_	tre	~~	
60 0 60 0								
	er 1.909 GHz BW 43 kHz #			Span 4.5 MHz #VBW 130 kHz Sweep 2.333 ms				CF Step 450.000 kHz
Occu	pied Bandw	/idth 2.6862	MHz	Total Power		0 dBm		Auto Mar Freq Offset
	mit Freq Erro Bandwidth		-112 Hz 47 MHz	OBW Powe x dB	·	9.00 % .00 dB		0 Hz
66					statt	5		

Band2_3MHz_16QAM_RB15_0_CH18615

Frequency	Radio Std: None Radio Device: BTS	ALIGN AUTO			0 GHz #FGain:Low	ng 1.851500000	Center Fr	
						Ref Offset 13.8 di Ref 30.00 dBn	10 dB/div	
Center Free 1.851500000 GH			voorante		annana		20.0 10.0	
							10.0	
			-				40.0	
			_				60 0 60 0	
CF Step 450.000 kH	Span 4.5 MHz Sweep 2.333 ms							
Auto Man Freq Offset 0 Hz	Total Power 29.4 dBm				ied Bandwidth 2.6899 MHz			
	9.00 %	99	BW Power	kHz	5.171	it Freq Error	Transm	
	00 dB	-26.	dB	MHz	2.964 N	ndwidth	x dB Ba	

Band2 3MHz 16QAM RB15 0 CH18900

	WICH WILLO				RF 50.0 0	R	
Radio Std: None Radio Device: BTS	d: 10/10		Trig: Fr	00 GHz #FGain:Low	q 1.8800000	enter Fre	
) dB/div	
		manana		m		0.0	
						00	
hanne	-	_			www	10	
			-			3.0	
Span 4.5 MHz Sweep 2.333 ms			enter 1.8 es BW 43				
0 dBm	29.0 dBm		0.42		bied Bandwidth 2.6912 MH		
		BW Power		2.916 I	t Freq Error		
	Radio Device: BTS Span 4.5 MHz Sweep 2.333 ms dBm	Radio Device: BTS	ArgiHold: 1010 Radio Device: BTS Radio Device: BTS Radio Device: BTS BW 130 kHz Span 4.5 MHz System 2.3.3 ms Total Power 29.0 dBm OBW Power 99.00 %	Trig: Free Run ArigiHold: 1010 Radio Device: BTS Radio Device: BTS Radio Device: BTS Radio Device: BTS Span 4.5 MHz Span 4.5 MHz #VBW 130 kHz Span 4.5 MHz Span 4.5 MHz Span 4.5 MHz Weep 2.333 ms Total Power 29.0 dBm Hz KHz OBW Power 99.00 %	Bit Gain Low Trig: Free Run Anter: 30 dB Argiteld: 1010 Bit Gain Low Anter: 30 dB Bit Gain Low Ratio Device: BTS 8 dB Bit Bit Gain Low Span 4.5 MHz svBW 130 kHz Span 4.5 MHz Science Span 4.5 MHz 2.6912 MHz 29.0 dBm 2.916 kHz OBW Power 99.00 %	Ref 0/feet 13.8 dB Ref 30.00 dBm Ref 30.00 dBm R	

Band2 3MHz 16QAM RB15 0 CH19185

Keysight Spectro	um Analyzer - Occupied 8	W					-02-02-04-04
Center Fre	q 1.90850000	-p- Tr	strist ovi inter Freq: 1.90850000 lg: Free Run A itten: 30 dB	ALIGN ALITO 0 GHz vg[Hold: 10/10	Radio Devic	lone	Frequency
10 dB/div	Ref Offset 13.8 c Ref 30.00 dB	iB m					
20.0 10.0	- pro-			~~~~~~			Center Fred 1.908500000 GH:
-10.0					\land		
30.0	~		-		low	~~~	
60 0 60 0					-		
Center 1.90 Res BW 43			#VBW 130 kHz		Span Sweep 2		CF Step 450,000 kH
Occupi	ed Bandwid	th	Total Pow	rer 29.	4 dBm		Auto Mar
	2	6888 MHz					Freq Offse
Transmi	t Freq Error	4.096 kHz	OBW Pow	er 9	9.00 %		0 H:
x dB Bar	ndwidth	2.969 MHz	x dB	-26	5.00 dB		
150				stat	us		

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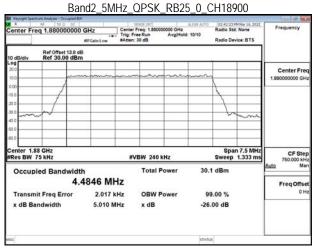
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Band2_5MHz_QPSK_RB25_0_CH18625

Keyoget Spectrum Analyses - Occupied By A SF Sta Cocc Center Freq 1.852500000	GHz	SENSE 2NT Center Freq: 1.8525 Trig: Free Run #Atten: 30 dB	Radio Dev	1000	Frequency	
Ref Offset 13.8 d 10 dB/div Ref 30.00 dBr	в					
				-		Center Fre 1.852500000 GH
20.0				1		
40.0						
Center 1.853 GHz Res BW 75 kHz		#VBW 240	kHz	Spar Sweep	7.5 MHz 1.333 ms	CF Step 750.000 kH
Occupied Bandwidt 4.	th 4857 MH	Total F	Power 30	.3 dBm		Auto Ma
Transmit Freq Error x dB Bandwidth	7.356 kH 4.992 MH			99.00 % 6.00 dB		он
50			STA	tus		



Band2 5MHz QPSK RB25 0 CH19175

Keysight Sp	ectrum Analyser - Occupied I	pw -				0.0
Center F	req 1.90750000	Tri	stree Run A tten: 30 dB	ALIGN ALITO 0 GHz vg[Hold: 10/10	Radio Device: E	Frequency
10 dB/div	Ref Offset 13.8 Ref 30.00 dB					
200 100		mmm		monte and a second s		Center Freq 1.907500000 GHz
-10.0					\backslash	
40.0					M	
60.0	.908 GHz				Span 7.5	Mile .
Res BW			#VBW 240 kHz		Sweep 1.33	33 ms 750.000 kHz
Occu	pied Bandwid 4	.4915 MHz	Total Pow	er 30.	2 dBm	Auto Man Freq Offset
	mit Freq Error Bandwidth	-600 Hz 5.006 MHz	OBW Pow x dB		9.00 % .00 dB	0 Hz
150				statt	8	

Band2_5MHz_16QAM_RB25_0_CH18625

Center Fre	eq 1.852500000	Trig	ter Freq: 1.852500000 GHz Free Run Avgillo en: 30 dB	R sld: 10/10	adio Std: None adio Device: BTS	Frequency
10 dB/div	Ref Offset 13.8 di Ref 30.00 dBn					
20.0 10.0			~~~~~			Center Free 1.852500000 GH
20.0					Lamo	
40.0						
Center 1.8			#VBW 240 kHz	s	Span 7.5 MHz weep 1.333 ms	CF Ste 750.000 kH
Occup	ied Bandwidt 4.	^h 4910 MHz	Total Power	29.4 d	Bm	Auto Ma
	it Freq Error ndwidth	5.662 kHz 5.023 MHz	OBW Power x dB	99.0 -26.00		он

				1000000				
	Ban	d2_5MHz_1	I6QAM_RB2	5_0_CH1890	0			
	n Analyser - Occupied BA	10	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	a sector and the sector of the	-0-6-0			
	1.880000000	Trig I	Trig: Free Run Avg[Hold: 10'10					
0 dB/div	Ref Offset 13.8 dE Ref 30.00 dBm							
.09 20.0 10.0					Center Freq 1.880000000 GHz			
0.00	A							
00				- horn	man			
00								
enter 1.88	GH7			Span 7.5	MHz			
Res BW 75			VBW 240 kHz	Sweep 1.33	13 ms 750.000 kHz			
Occupie	d Bandwidt		Total Power	29.2 dBm	Auto Man			
	4.4	4895 MHz			Freq Offset			
Transmit	Freq Error	2.939 kHz	OBW Power	99.00 %	0 Hz			
x dB Ban	dwidth	4.976 MHz	x dB	-26.00 dB				

Band2 5MHz 16QAM RB25 0 CH19175

Keysight Spect	bum Analyser - Occu			-			N IGN MUTO	100-000	PM Mar 16, 2022	0.0
Center Fre	eq 1.907500	0000 GH	łz Gain:Low	Center Freq: 1.907500000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency	
10 dB/div	Ref Offset 1 Ref 30.00									
20.0		190 - 000	10100000			-	00		-	Center Free 1.907500000 GH:
-10.0								1		
40.0	Jomes (-C	m	
60.0										
Res BW				#VE	BW 240 k	Hz			an 7.5 MHz 1.333 ms	CF Step 750.000 kH
Occup	ied Bandv		25 MH	łz	Total P	ower	29.3	3 dBm		Auto Mar Freq Offse
	it Freq Erro Indwidth	or	-522 4.976 M	1000	OBW P x dB	ower		9.00 % .00 dB		OH
60							STATU	5		

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Band2 10MHz QPSK RB50 0 CH18650

um Analyzer - Occupied Bi	N	street art		ALIGN AUTO	82-31-44		
	-+- 1	Center Freq: 1.85500000 GHz Trig: Free Run Avg/Hold: 10/10			Radio Std: None		Frequency
Ref Offset 13.8 d					riterio De		
Ref 30.00 dBr	n						
					-	-	Center Fre
	manne	mon		man	1	-	1.855000000 GH
- A-		_	-		R -	-	
+ / -					1	-	
+/+			-		1		
\sim	-	-	-		-		
					1		
			-				
55 GHz 60 kHz		#VBW 510	kHz				CF Ste 1.500000 MH
ed Bandwidt	th	Total	Power	30.	4 dBm		Auto Ma
						1	1211010220
							Freq Offse
t Freq Error	30.770 kH	OBW	Power	99	9.00 %		04
ndwidth	9.757 MH	x dB		-26	00 dB		
				STATU	5		
	Ref Office 138 d Ref 30:00 Br 55 GHz 55 GHz 00 KHz ed Bandwidd 8, t Freq Error	g 1.85500000 GHz #FGaintow Ref 30.00 dBm Ref 30.00 dBm 55 GHz 60 KHz ed Bandwidth 8.9443 MHz t Freq Error 30.770 kHz	g 1.855000000 GHz Center Freq: 1.85 #fGetture Tig Freq Run #fGetture Tig Freq Run Ref 30.00 dBm S5 GHz #VBW 510 ed Bandwidth Total 8.9443 MHz t Freq Error 30.770 kHz OBW	g 1.855000000 GHz Center Freq. 1.85500000 GHz Artgeride Stream Center Freq. 1.8550000 GHz Artgeride Stream Center Freq. 1.8550000 GHz Artgeride Stream Center Stream Center Stream Center Stream Center Stream Center Stream Center Cente	g 1.855000000 GHz #FGenture #Genture Ref 30.00 dBm Ref 30.00 dBm Fer 070s 138 dB Ref 30.00 dBm Fer 070s 138 dB Fer 0	g 1.855000000 GHz Center Frez: 1.8500000 0Hz Radio Sta affGenture Artige Frez: 1.8000000 0Hz Radio Sta Red of Sta Argel Hold: 1010 Radio Sta Ref 00:00 dBm Argel Hold: 1010 Radio Sta Ref 0:00 dBm Argel Hold: 1010 Radio Sta Statis: Sta Statis: Sta Radio Sta Matter: 30 dB Argel Hold: 1010 Radio Sta Statis: Sta Statis: Sta Radio Sta Statis: Sta Statis: Sta Statis: Sta S5 GHz #VBW 510 kHz Spa o kHz #VBW 510 kHz Spa B.9443 MHz Total Power 30.4 dBm t Freq Error 30.770 kHz OBW Power 99.00 %	g 1.855000000 GHz Gener Freq: 18500000 GHz Arginod: 1010 Radie: 10

R	thum Analyzer - Occupied IIV RF 150 0 0C reg 1.8800000000	Second and a second	sense anti Inter Freq: 1.880000000 GH	ALIGN ALITO	62-33-45 PH Har Radio Std: Nor	16,2022	Frequency	
Jenner Pr	eq 1.000000000	Tr	Trig: Free Run Avg Hold: 10/10 w #Atten: 30 dB			BTS		
0 dB/div	Ref Offset 13.8 dE Ref 30.00 dBm							
0.0					-		Center Fre	
00								
0.0								
0.0					- man	~~~~		
0.0								
enter 1.1 es BW 1			#VBW 510 kHz		Span 15 Sweep	1 ms	CF Ste 1.500000 MF	
Occup	oied Bandwidt		Total Power	30.	3 dBm	Aut	to Ma	
Transm	8.3 nit Freg Error	9490 MHz 17.035 kHz		0	9.00 %		Freq Offse	
	andwidth	9.868 MHz		100	.00 dB			
0				STAT	-			

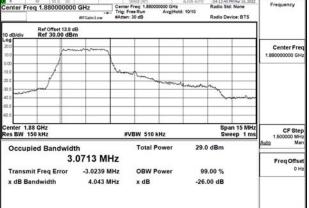
Band2 10MHz QPSK RB50 0 CH19150

Keysight Spe	trum Analyzer - Occupied B	W	and the second s			-0-0-0-
Center Fr	eq 1.90500000	Trig:	rr Freq: 1.905000000 GHz Free Run AvgiHold n: 30 dB	ALIGN AUTO	Radio Std: None Radio Device: B1	Frequency
10 dB/div	Ref Offset 13.8 c Ref 30.00 dB					
20.0 10.0	- jam					Center Freq 1.905000000 GHz
-10.0 -20.0					1	_
40.0					- mar	~~
Center 1. Res BW 1			VBW 510 kHz		Span 15 Sweep 1	Cr atep
			Total Power	20.2	sweep i	Auto Man
Occut	oled Bandwid	9634 MHz	Total Power	50.5	, abin	FreqOffset
	nit Freq Error andwidth	-8.928 kHz 9.851 MHz	OBW Power x dB		0.00 % 00 dB	0 Hz
MISG				status	5	

Band2_10MHz_16QAM_RB16_0_CH18650

Keysight Spe	ectrum Analyzer - Occupied B RF 50 0, 00	w		NOT THE		ALIGN ALITO			-0-0-00
Center Fr	req 1.85500000	0 GHz #FGein:Low	Center Freq: 1.855000000 GHz			Radio Device: BTS		Frequency	
10 dB/div	Ref Offset 13.8 c Ref 30.00 dB								
20.0 10.0		moning							Center Fred 1.85500000 GHz
0.00			Low	m	-				
40.0	~~~~							a de como como como como como como como com	
Center 1. Res BW 1				BW 5101				in 15 MHz	CF Step
	pied Bandwid			Total P		29.0) dBm	eep 1 ms	1.500000 MH Auto Mar
Transn	3. nit Freq Error	.0502 MH -3.0196 M		OBW P	ower	99	9.00 %		Freq Offse 0 H
x dB B	andwidth	3.726 M	Hz	x dB		-26.	00 dB		

Band2 10MHz 16QAM RB16 0 CH18900 04:12:40 PM Mar 1 Radio Std: None



Band2 10MHz 16QAM RB16 0 CH19150

Keysight Spectrum Analyser - Occi						
Center Freq 1.90500		Center Freq: 1.90500 Trig: Free Run #Atten: 30 dB	AugiHold: 10/10	Radio Std: No Radio Device:	ne Freq	uency
Ref Offset 10 dB/div Ref 30.00	13.8 dB 0 dBm					
10.0	munition					nter Frei 10000 GH
0.00 -10.0 -20.0		have and	marker			
40.0			annan harran		where a	
60.0						
Center 1.905 GHz Res BW 150 kHz		#VBW 510 k	Hz	Span 1 Sweep	1 ms 1.50	CF Step
Occupied Band		Total P	ower 2	9.0 dBm	Auto	Mar
	3.0425 MH	z			Fr	eq Offset
Transmit Freq Erro	or -3.0332 Mi	Hz OBW P	ower	99.00 %		0 Ha
x dB Bandwidth	3.781 M	lz xdΒ	-2	26.00 dB		
MSG			sb	ATUS		

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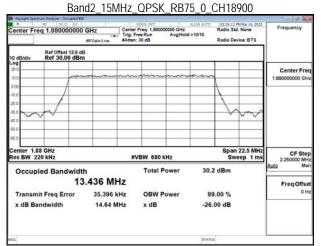
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Band2 15MHz QPSK RB75 0 CH18675

Keysight Spect	bum Analyser - Occ		10		1.000.002		- 14 14 14 14 14 14 14 14 14 14 14 14 14	-		-0-16-1
Center Fre	aq 1.85750	0000 G	Hz FGain:Low	Center Freq: 1.857500000 GHz Trig: Free Run AvgiHold: 10/10 tLow #Atten: 30 dB				Radio Std Radio Der	1000	Frequency
10 dB/div	Ref Offset Ref 30.00									
20.0 10.0							-			Center Free 1.857500000 GH
10.0	-/		-	_	-		-			
30.0	\sim			-				ha	m	
50 0 60 0	_				-					
Center 1.8 Res BW 22				۳V	/BW 680 k	Hz			22.5 MHz eep 1 ms	CF Ste 2.250000 MH
Occupied Bandwidth			375 MI	Total Power		30.3 dBm			Auto M	
	it Freq Err Indwidth		29.757 1 14.51 N	Hz	OBW P x dB	ower		9.00 % 00 dB		OH
50							statu	5		



Band2 15MHz QPSK RB75 0 CH19125

Keysight Spe	ctrum Analyzer - Occupied BW RF 53.0 CC	S		ALIGN AUTO		
Center Fr	eq 1.902500000	Trig: I	rr Freq: 1.902500000 GHz Free Run Avg Hold n: 30 dB		Radio Std: None Radio Device: B1	Frequency
10 dB/div	Ref Offset 13.8 dE Ref 30.00 dBm					
20.0 10.0	m	mmm		m		Center Freq 1.902500000 GHz
20.0						_
40.0					~~~	~
Center 1. Res BW 2			VBW 680 kHz		Span 22.5	
	oied Bandwidt		Total Power	30.2	dBm	Auto Man
	nit Freq Error andwidth	-6.989 kHz 14.50 MHz	OBW Power x dB		0.00 % 00 dB	Freq Offset 0 Hz
60				status	5	

Band2_15MHz_16QAM_RB16_0_CH18675

q 1.857500	0000 GH		Trig: F	ree Run		ALIGN ALITO d: 10/10	Radio Std		Frequency	
		7							Center Freq 1.857500000 GHz	
			June	-Ann	anne	-				
							- And	www.		
68 GHz 0 kHz				VBW 680	0 kHz				CF Step 2.250000 MH	
ed Bandv		79 M	Hz	Total	Power	30.2	2 dBm		Auto Mar Freq Offset	
t Freq Erro ndwidth	or -			OBW x dB	Power				0H	
	Ref Offset 1 Ref 30.00	Ref Office 138 dB Ref 30.00 dBm 9 dB	Ref Offset 13 8 dB Ref 30.00 dBm 8 GHz ed Bandwidth 3.1979 M t Freq Error -5.2515	Ref Offset 138 dB Ref 30.00 dBm Ref 30.00 dBm dBm dBm dBm dBm dBm dBm dBm dBm dBm	Ref Offset 13.8 dB Ref 30.00 dBm Ref 30.00 dBm 0 kHz 0 kHz 0 kHz 13.1979 MHz t Freq Error -5.2515 MHz 0 BW	Ref Officer 138 dB Ref 30.00 dBm 0 d	Arginolou of the second	Ref Offset 13.8 dB Ref 30.00 dBm Ref 30.00 d	Ref 000000000000000000000000000000000000	

Band2_15MHz_16QAM_RB16_0_CH18900

Keysigni spec	RF 50 Q 0				ENSE INT		ALIGN AUTO		PM Mar 16, 2022	
enter Fr	eq 1.880000	000 GH	lz Sein:Low		Freq: 1.88000 ee Run	AvgiHold		Radio Str		Frequency
0 dB/div	Ref Offset 13 Ref 30.00 d									
00	7	~~~	7							2.250000 M
0.0	M		N.v.	and the	Acrony	nun				
							- Prove	man.	-	
enter 1.1 es BW 2				#V	BW 680 P	Hz			22.5 MHz eep 1 ms	CF Ste 2.250000 Me Auto Ma Freq Offs: 0 F
Occup	ied Bandw		75 MI	łz	Total P	ower	30.	0 dBm		
	nit Freq Error andwidth	r 4	5.2724 N 4.149 N		OBW P x dB	ower	100	9.00 % .00 dB		

Band2 15MHz 16QAM RB16 0 CH19125

Keysight Spectr	rum Analyser - Occupies					12000			-0-6-
Center Fre	nq 1.9025000		Trig:	Free Run n: 30 dB		Ra (10	dio Std: N	one	Frequency
10 dB/div	Ref Offset 13.8 Ref 30.00 di								
20.0	T					-	-	_	Center Fri 1.902500000 Gi
20.0		×	the man	An	Same	_	_	_	
30.0 40.0 50.0					Same and	mma	m	um	
Center 1.9 Res BW 22			,	TVBW 6801	kHz		Span 22 Swee	.5 MHz p 1 ms	CF Step 2.250000 MH
Occupi	ied Bandwi	dth 3.1657	MHz	Total P	ower	29.6 di	Bm		Auto Mai
	it Freq Error ndwidth		8 MHz 3 MHz	OBW P x dB	ower	99.00 -26.00			он
66						STATUS			

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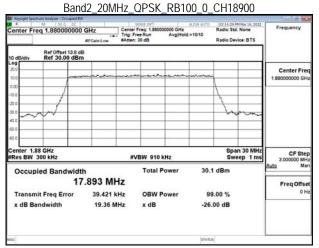
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Band2 20MHz QPSK RB100 0 CH18700

Keysight Spectrum Analyzer - Oc			Street and the second second	1938-1946-1946		-0-16-1
Center Freq 1.86000	0000 GHz		reg: 1.860000000 GHz Run Avg Hold 0 dB	ALIGN AUTO	Radio Std: None Radio Device: BTS	Frequency
10 dB/div Ref Offset						
20.0		man		and some		CF Ste
10.0						
30.0					hanna	
40.0						
60.0						
Center 1.86 GHz #Res BW 300 kHz		#VB	3W 910 kHz		Span 30 MHz Sweep 1 ms	3.000000 MH
Occupied Band			Total Power	30.2	dBm	Auto M
	17.770 M					Freq Offse
Transmit Freq Err			OBW Power	in the second	.00 %	04
x dB Bandwidth	19.15	MHz	x dB	-26.	00 dB	
150				statu	5	



Band2 20MHz QPSK RB100 0 CH19100

Keysight Spect	trum Analyser - Occupi			455993		033004000			0-0-0-0-
Center Fre	eq 1.900000	000 GHz		Freq: 1.90000 ee Run 30 dB	Avg Hold	4.164 AUTO	Radio St	off Mar 16, 2022 d: None evice: BTS	Frequency
10 dB/div	Ref Offset 13 Ref 30.00 c								
20.0				********	-				Center Freq 1.900000000 GHz
-10.0	- /						1		
30.0 40.0 50.0	Augurt							5)**** *** ***	
Center 1.9			<i>#</i> V	/BW 9101	Hz			an 30 MHz reep 1 ms	CF Step 3 000000 MHz
Occup	ied Bandw	idth 17.790 N	IHz	Total P	ower	30.1	1 dBm		<u>Auto</u> Man
	it Freq Error andwidth		kHz	OBW P x dB	ower		9.00 % .00 dB		Freq Offset 0 Hz
60						statu	6		

Band2_20MHz_16QAM_RB18_0_CH18700

Center Fre	aq 1.86000000	0 GHz #FGain:Low	Center F		00000 GHz AvgiHold	ALIGN AUTO	Radio Sto		Frequency	
10 dB/div	Ref Offset 13.8 c Ref 30.00 dB									
20.0	- /m								Center Fred 1.86000000 GHz	
10.0 20.0 30.0			Nun and	Maria	man	*********	w.			
40.0 50.0 60.0							- Carl	ukanutru		
Center 1.8 Res BW			#V	BW 910	kHz			in 30 MHz eep 1 ms	CF Step 3.000000 MH	
Occup	ied Bandwid 3	th .7662 M	Hz	Total F	ower	29.8	dBm		Auto Mar Freq Offset	
	it Freq Error	-7.2574		OBW F	ower		.00 %		он	
x dB Ba	ndwidth	5.573	MHz	x dB		-26.	00 dB			





Band2 20MHz 16QAM RB18 0 CH19100

Keysight Spectrum Analyzer -									-00
Center Freq 1.900		-		eq: 1.9000 Run 0 dB		10/10	Radio St	d: None vice: BTS	Frequency
10 dB/div Ref 30	et 13.8 dB .00 dBm								
20.0 50.0	from								3.000000 M
10.0	*	No.	wan/	Lun	Stranger .				
30.0 40.0 50.0					and a	******	and the second s	and relations	
Center 1.9 GHz #Res BW 300 kHz			#VE	W 910 I	KHZ			an 30 MHz reep 1 ms	CF Step 3.000000 MH
Occupied Ban		70 MH	z	Total P	ower	29.4	dBm		Auto Ma
Transmit Freq E x dB Bandwidth		7.2800 MH 5.326 MH	57 S S	OBW P x dB	ower		0.00 % 00 dB		он
60						status	5	17	

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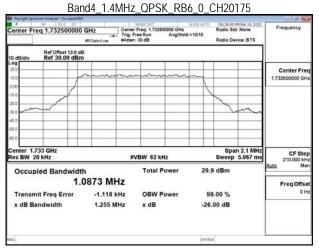
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Band4 1.4MHz QPSK RB6 0 CH19957

Keysight Spectru	um Analyser - Occupied BW	10 m	and the second	121022-010	ALC: NOT THE R		0-0-6
Center Free	q 1.710700000	Tri Tri	stror ovil nter Freq: 1.710700000 GHz g: Free Run AvgiHold tten: 30 dB	ALIGN AUTO	Radio De		Frequency
10 dB/div	Ref Offset 13.8 dE Ref 30.00 dBm						
20.0 10.0				~			Center Fre 1.710700000 GH
10.0					1		
40.0	ment				h	ma	
60.0							
Center 1.71 Res BW 20			#VBW 62 kHz		Spa Sweep	n 2.1 MHz 5.067 ms	CF Ste 210.000 ki
Occupie	ed Bandwidt		Total Power	29.8	dBm		Auto Ma
	1.0	0868 MHz					Freq Offse
Transmit	t Freq Error	-427 Hz	OBW Power	99.	.00 %		01
x dB Bar	ndwidth	1.272 MHz	x dB	-26.0	00 dB		
esa				STATUS			



Band4 1.4MHz QPSK RB6 0 CH20393

Keysight Spect	trum Analyser - Occupied B RF 50 0 0C	w	SENSE INTO	ALIGN AUTO	06:39:36 PM 1	Aur 16 2022	- 6
Center Fre	eq 1.75430000	Tr Tr	nter Freq: 1.75430000		Radio Std: N Radio Devic	lone Freq	uency
10 dB/div	Ref Offset 13.8 d Ref 30.00 dBi						
20.0		~~~~~		mm			nter Freq 00000 GHz
-10.0	mund				h	~~~	
40.0							
Center 1.7			#VBW 62 kHz		Span 3 Sweep 5	2.1 MHz	CF Step
	ied Bandwid	th	Total Pov	ver 30	2 dBm	Auto 2	210.000 kH Auto Mar
occup		0875 MHz				Fr	eq Offse
	hit Freq Error andwidth	-991 Hz 1.261 MHz	OBW Pow x dB		9.00 % 5.00 dB		0 Ha
60				stat	15		

Band4_1.4MHz_16QAM_RB6_0_CH19957

Frequency	Radio Std: None Radio Device: BTS	4.164 AUTO	req: 1.710700000 GHz re Run AvgiHol 10 dB		1.710700000 0	Center Fre
					Ref Offset 13.8 dB Ref 30.00 dBm	10 dB/div
LI CF Ste		n-				20.0
						10.0
	Juma				www.	20.0
						0.0
						50 0 60 0
CF Step 210.000 kH	Span 2.1 MHz Sweep 5.067 ms		BW 62 kHz			Center 1.7 tes BW 20
Auto Mar Freq Offse 0 H:	dBm	29.1	Total Power	377 MHz	d Bandwidth	Occup
	.00 %	99	OBW Power	4.284 kHz	Freq Error	Transm
	00 dB	-26.	x dB	1.284 MHz		x dB Ba

Band4 1.4MHz 16QAM RB6 0 CH20175

06:34:10 PM Mar 16, 2022						um Analyser - Occup	Keysight Spectr
Radio Std: None		500000 GHz			000 GH	q 1.732500	enter Fre
							0 dB/div
	-			<u> </u>	pro		20.0 10.0
my horas						-	20.0
							10 0 50 0 50 0
Span 2.1 MHz Sweep 5.067 ms		Hz	#VBW 621				Center 1.73 Res BW 20
dBm	29.1	Power		'3 MHz		ed Bandw	Occupi
	99. -26.0	Power		2.950 kHz	r	t Freq Erro	
	Radio Device: BTS	Radio Device: BTS Radio Device: BTS Span 2.1 MHz Sweep 3.067ms 29.1 dBm 99.00 %	Argihole: 1010 Radio Device: BTS Radio Device: BTS Second State St	rig: Free Run ArgiNold: 1910 Radio Device: BTS Radio Device: BTS R	Total Power 29.1 dBm Total Power 99.00 %	The Fire Run Argited: 1010 Fir Galance Argited: 1010 Ratio Device: BTS 38 dB dBm	Arighted: 1010 Frainlow Trig: Free Run Arighted: 1010 Radio Device: BTS Ref Offset: 13.8 dB Ref 30.00 dBm Image: Comparison of the second

Band4 1.4MHz 16QAM RB6 0 CH20393

Center Fre	eq 1.754300000	GHz C	strist pyti inter Freq: 1.754300000 GHz Ig: Free Run AvgiHold	AUGN AUTO 06:40:18 PM Ma Radio Std: No 10/10	
		#FGein:Low #A	tten: 30 dB	Radio Device:	BTS
10 dB/div	Ref Offset 13.8 dE Ref 30.00 dBm				
20.0 10.0		mm			Center Freq 1.754300000 GHz
-10.0					_
-30.0	mund			- m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
-40.0			-		
Center 1.7				Span 2	
Res BW 20	0 kHz		#VBW 62 kHz	Sweep 5.0	210.000 kHz
Occup	ied Bandwidt	h	Total Power	29.5 dBm	Auto Man
	1.	0869 MHz			FreqOffset
Transm	it Freq Error	3.473 kHz	OBW Power	99.00 %	0 Hz
x dB Ba	ndwidth	1.282 MHz	x dB	-26.00 dB	
MSG				STATUS	

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Band4 3MHz QPSK RB15 0 CH19965

Keysight Spects	um Analyser - Occupied BW	6. 	and a state of the				-0-0	- 90
Center Fre	q 1.711500000	UTIZ Tri	stror ovi ter Freq: 1.711500000 GHz g: Free Run Avg[Hold ten: 30 dB	Radio Std: None Radio Device: BTS		Frequency		
10 dB/div	Ref Offset 13.8 dB Ref 30.00 dBm							
20.0				-			Center 1.711600000	
10.0						nm		
40.0								
60.0								
Center 1.7 Res BW 43			#VBW 130 kHz			n 4.5 MHz 2.333 ms	CF 450.00	0 kH
Occupi	ed Bandwidth		Total Power	30.5	5 dBm		Auto	Ma
	2.6	5842 MHz					Freq O	
Transmi x dB Bai	t Freq Error	2.231 kHz	OBW Power x dB	in the second	00 dB			OH
x ub ba	nawiath	2.041 MHZ	XUD	-20.	UU dB			
60				Statu				_

Recent Section Relater - Occused By R SF St D CC Center Freq 1.732500000	PMMar 14, 2022 d: None ivice: BTS	Frequency				
Ref Offset 13.8 dl						
Log 200 100 000 000 000 000 000 000				1		Center Freq 1.732500000 GHz
500 600 Center 1.733 GHz Res BW 43 kHz		VBW 130 kHz			an 4.5 MHz 2.333 ms	CF Step
Occupied Bandwidth 2.6883 MHz		Total Power	30.3	30.3 dBm		Auto Man
Transmit Freq Error x dB Bandwidth	-1.259 kHz 2.960 MHz	OBW Power x dB	99.00 % -26.00 dB			0 Hz
150			STATUS			

Band4 3MHz QPSK RB15 0 CH20385

Keysight S	pectrum Analyser - Occu		10	2711				-		-0-0-0-
Center I	Freq 1.753500	0000 GH	-	Strive 2NT ALTON AUTO Center Freq: 1.753500000 GHz Trig: Freq Run Avg Hold:>10/10 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency	
10 dB/div	Ref Offset 1 Ref 30.00									
20.0							m		-	Center Free 1.753500000 GH
0.00			_					\setminus		
0.0	m							5	mm	
0.0										
	1.754 GHz 43 kHz			#VB	W 130 k	Hz			an 4.5 MHz 2.333 ms	CF Step 450.000 kH
Occu	Occupied Bandwidth 2.6864 MH		64 MH				30.6	ð dBm		<u>Auto</u> Ma
	Transmit Freq Error		1.455 kH	z	OBW P	ower	99.00 %			Freq Offse 0 H
x dB	Bandwidth		2.951 MH	z	x dB		-26.	00 dB		
50							statu	6		

Band4_3MHz_16QAM_RB15_0_CH19965

	Trig	er Freq: 1.711500000 GHz Free Run AvgiHold	Radio Std: None	Frequency
				Center Free 1.711500000 GH:
12 GHz 8 kHz		VBW 130 kHz		
Occupied Bandwidth 2.6865 MHz		Total Power	29.7 dBm	Auto Mar
it Freq Error ndwidth	2.557 kHz 2.971 MHz	OBW Power x dB	99.00 % -26.00 dB	он
	ref offset 138 g Ref 30.00 dBr 12 GHz 12 GHz kHz ed Bandwidd 2, it Freq Error	eq 1.711500000 GHz srGainLaw Ref 30.00 dBm erGainLaw Ref 30.00 dBm 12 GHz 12 GHz 14 KHz 12 GHz 12 GHZ 13 GHZ 14 GHZ 14 GHZ 14 GHZ 14 GHZ 14 GHZ 14 GHZ 15 GHZ 15 GHZ 16 GHZ 16 GHZ 17 GHZ 17 GHZ 17 GHZ 17 GHZ 17 GHZ 18 GHZ	In Contract 138 0000 GHz Contract 138 0000 GHz Contract 138 000 GHz Contract 138 000 GHz Artiger 138 000 GHz Artiger 138 000 GHz Artiger 130 00 GHz Contract 138 000 GHz Contract	rg 1.711500000 GHz artGainLow Control Freq. 1.71150000 OHz Artim: 20 dB Ref 30.00 dBm Ref 30.00 dBm

Band4 3MHz 16QAM RB15 0 CH20175 29:29 PM Mar 1/ dio Std: None enter Freq 1.732500000 GHz >10/10 Radio Device: BTS Ref Offset 13.8 Ref 30.00 dB Center Fre CF Ste enter 1.733 GH es BW 43 kHz Span 4.5 MH Sweep 2.333 m #VBW 130 kHz Occupied Bandwidth Total Power 29.6 dBm 2.6899 MHz Freq Offs 1.360 kHz 99.00 % 01 Transmit Freq Error OBW Powe x dB Bandwidth 2.955 MHz x dB -26.00 dB

Band4 3MHz 16QAM RB15 0 CH20385

Center Fre	eq 1.75350000	0 GHz Cente	r Freq: 1.753500000 GHz	Radio St 10/10	d: None wice: BTS	Frequency
10 dB/div	Ref Offset 13.8 Ref 30.00 dB					
200 100	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Center Freq 1.753500000 GHz
20.0	h				m	
40.0						
Center 1.7					in 4.5 MHz	CF Step
Res BW 43 kHz Occupied Bandwidth			VBW 130 kHz Total Power	29.9 dBm	2.333 ms	450.000 kHz kuto Man
	2	.6894 MHz			r	Freq Offset
Transm	it Freq Error	2.662 kHz	OBW Power	99.00 %		0 Hz
x dB Ba	andwidth	2.961 MHz	x dB	-26.00 dB		
60				status		

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Band4 5MHz QPSK RB25 0 CH19975

Keysight Spectrum Analyzer - Occupied BW		and a state of the state of the	0.000.000	ACCORDENCE AND	-0-0-0
Center Freq 1.712500000	Trig:	sthor ovi er Freq: 1.712500000 GHz Free Run AvgiHold n: 30 dB		Radio Std: None Radio Device: BTS	Frequency
Ref Offset 13.8 dE 10 dB/div Ref 30.00 dBm					
200 500					Center Fre 1.712500000 GH
000					
400				man	
60.0					
Center 1.713 GHz #Res BW 75 kHz		Span 7.5 MHz Sweep 1.333 ms	CF Step 750.000 kH		
Occupied Bandwidth 4.4837 MHz		Total Power	30.8	dBm	Auto Mar Freq Offse
Transmit Freq Error x dB Bandwidth	4.884 kHz 5.010 MHz			00 % 0 dB	он
50			status		

0 dB/div		R Storage C Stor								
	Ref Offset 13.8 dB Ref 30.00 dBm									
99 00 00 00 00 00 00 00 00 00 00 00 00 0				men fr	~~~~	Center Free 1.732500000 GH:				
enter 1.73			VBW 240 kHz		in 7.5 MHz 1.333 ms	CF Step 750.000 kH				
Occupied Bandwidth 4.4879 MHz Transmit Freq Error 4.123 kHz x dB Bandwidth 5.030 MHz		Total Power	30.8 dBm		Auto Mar Freq Offse					
			OBW Power x dB	99.00 % -26.00 dB		0 H3				

Band4 5MHz QPSK RB25 0 CH20375

enter Fre	nter Freq 1.752500000 GHz			Center Freq: 1.752500000 GHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency
0 dB/div	Ref Offset 13 Ref 30.00 d								
000 000 000			~~~~	~~~~	~~~				Center Free 1.752500000 GH:
								~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	inter 1.753 GHz Span 7.5 MHz es BW 75 KHz #VBW 240 kHz Sweep 1.333 ms							CF Ster 750.000 kH	
Occupi	Occupied Bandwidth 4,4917 MH		MHz	0.02			) dBm		Auto Man
Transmi x dB Ba	it Freq Error ndwidth		12 kHz 06 MHz	OBW F x dB	ower		0.00 % 00 dB		0 H
0						statu	5		

#### Band4_5MHz_16QAM_RB25_0_CH19975

Frequency	Radio Std: None Radio Device: BTS	4.16N AUTO	Run AvgiHold		GHz #FGaintow	q 1.712500000	Center Fr	
						Ref Offset 13.8 dB Ref 30.00 dBm	10 dB/div	
Center Fre 1.712500000 GH		~~~~			man	-	20.0 10.0	
	$\sum$						10.0	
	harris		-				30.0	
							60 0 60 0	
CF Ster 750.000 kH	Span 7.5 MHz Sweep 1.333 ms							
Auto Mai	dBm	29.9	Hz		Occupied Bandwidth 4.4893 MH			
0H	9.00 %	99			3.682	and the second		
	00 dB	-26.	x dB	MHz	4.960 N	ndwidth	x dB B	

### Band4 5MHz 16QAM RB25 0 CH20175 enter Freq 1.732500000 GHz

13.8 dB 0 dBm	······································	~~~~		Center F 1.732500000
<u>~~~~~~</u> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~	~~~~		
		$\lambda$		
		(vs		
		Spa	7.5 MHz	
	#VBW 240 kHz	Sweep	1.333 ms	CF Step 750.000 kH
Occupied Bandwidth 4,4882 MHz		29.5 dBm		Auto M
or -43 Hz 4.987 MHz	OBW Power x dB	99.00 % -26.00 dB		
	4.4882 MHz	Width Total Power 4.4882 MHz ror -43 Hz OBW Power	#VBW 240 kHz         Sweep           width         Total Power         29.5 dBm           4.4882 MHz             ror         -43 Hz         OBW Power         99.00 %	Width         Total Power         29.5 dBm           4.4882         MHz

### Band4 5MHz 16QAM RB25 0 CH20375

Keysight Spect	bum Analyzer - Occupied BM						-0-6-
Center Fre	eq 1.752500000	Trig:	Center Freq: 1.752500000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB			H Mar 16, 2022 I: None vice: BTS	Frequency
10 dB/div	Ref Offset 13.8 dE Ref 30.00 dBm						
20.0 10.0	-				-		Center Free 1.752500000 GHz
10.0	and				1	hanne	
30.0 40.0							
60.0							
Center 1.753 GHz #Res BW 75 kHz			VBW 240 kHz		Span 7.5 MHz Sweep 1.333 ms		CF Ster 750.000 kH
Occupied Bandwidth 4.4925 MHz					dBm		Auto Mar Freq Offse
	it Freq Error Indwidth	2.526 kHz 4.974 MHz	OBW Power x dB		.00 % 00 dB		0 H3
663				status			

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### Band4_10MHz_QPSK_RB50_0_CH20000

Keysight Spect	oum Analyser - Occupied		10010000		a ka sa	1000		-e- @ 🖬
Center Fre	eq 1.71500000	0 GHz	enter Freq: 1.715 rig: Free Run Atten: 30 dB	000000 GHz Avg Hold>	10/10	Radio Std: None Fre Radio Device: BTS		Frequency
10 dB/div	Ref Offset 13.8 Ref 30.00 dB							
20.0								Center Free 1.715000000 GH
-10.0					_	$\backslash$		
40.0							han	
-60.0								
Center 1.7 Res BW 1			#VBW 510	kHz			an 15 MHz eep 1 ms	CF Step 1.50000 MH A <u>uto</u> Mar Freq Offsel 0 Hb
Occup	ied Bandwid			Power	30.9	dBm		Auto Mar
	Sector sector and	.9455 MHz						
	it Freq Error ndwidth	30.095 kHz 9.795 MHz		Power		9.00 % 00 dB		04
MSG					statu	5		

R	Registre Streament Resigner - Drospeel Ref         A Set 0 - C         A Set 0 - C									
0 dB/div	Ref Offset 13.8 Ref 30.00 dB									
00	m		~~~~~	mm		anno.			Center Fre 1.732500000 GH	
00					-		1			
10							1			
30										
enter 1.7 es BW 1			#VI	BW 510 P	Hz			an 15 MHz eep 1 ms	CF Ste 1.500000 MH	
Occup	ied Bandwid			Total P	ower	30	7 dBm		Auto Ma	
Transm	8 hit Freq Error	.9567 MH		OBW P	ower	9	9.00 %		Freq Offse	
	andwidth	9.793 M		x dB			.00 dB			
						Stat				

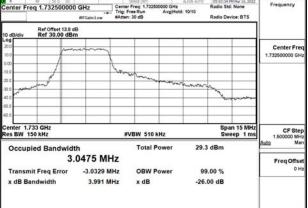
#### Band4 10MHz QPSK RB50 0 CH20350

0 R	eq 1.75000000	0 GHz Cen	steve pv1 ter Freq: 1.750000000 GHz : Free Run AvgiHolo	ALIGN AUTO	05:09:52 PM Mar 14, 2 Radio Std: None	Frequency
		#IFGain:Low #Att	en: 30 dB	208203926	Radio Device: BTS	_
0 dB/div	Ref Offset 13.8 c Ref 30.00 dB					
.0g 20.0	~			anne		Center Free
0.00	- A-					
10.0	. /					
0.0					marken	
0.0	-		-	-		-
50 0 60 0						
enter 1.7					0	
tes BW 1			#VBW 510 kHz		Span 15 M Sweep 1 r	ns 1.500000 MHz
Occup	ied Bandwid	th	Total Power	30.9	dBm	Auto Mar
	8	.9729 MHz				FreqOffset
Transm	it Freq Error	12.986 kHz	OBW Power	99	9.00 %	0 Hs
x dB Ba	andwidth	9.848 MHz	x dB	-26.	00 dB	
50				STATU		

### Band4_10MHz_16QAM_RB16_0_CH20000

Center Fre	eq 1.7150000		Trig: F	Freq: 1.71500 Free Run to 30 dB	AvgiHold	ALIGN ALITO	Radio Device: BTS		
10 dB/div									
20.0	- m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							Center Free 1.715000000 GHz
10.0 20.0 30.0			14	m	~~~~	m	~		
40.0 50.0 60.0				-			~		
Center 1.7 Res BW 1				VBW 510	(Hz			an 15 MHz eep 1 ms	CF Step 1.500000 MH
Occup	ied Bandwi	dth 3.0481 M	Hz	Total P	ower	29.5	dBm		Auto Mar Freq Offse
	it Freq Error			OBW P	ower	1000	.00 %		0 H
x dB Ba	ndwidth	3.794 1	MHz	x dB		-26.	00 dB		

### Band4 10MHz 16QAM RB16 0 CH20175 103:34 PM Mar 1 Sio Std: None



### Band4 10MHz 16QAM RB16 0 CH20350

Keysight Spectrum 3		W							-02-03-04-04-04-04-04-04-04-04-04-04-04-04-04-
Center Freq		O GHz #FGein:Low	Center F	req: 1.7500 e Run 10 dB	Avg(Hol	4.164 AUTO	Radio Std: None Frequenc		
10 dB/div F	Ref Offset 13.8 d Ref 30.00 dBr								
20.0 10.0	~~~					-			Center Free 1.75000000 GH:
10.00			Jun			mano			
30.0						- and -	~	andress	
60.0		_				-			
Center 1.75 G Res BW 150 H			#VE	3W 510 I	KHZ	· · · · ·		n 15 MHz ep 1 ms	CF Step 1.500000 MH
Occupied	Bandwid	th 0523 MH	17	Total P	ower	29.7	7 dBm		Auto Mar
Transmit F	the second s	-3.0350 M		OBW P	ower	99	9.00 %		Freq Offse 0 H
x dB Band	width	4.121 M	Hz	x dB		-26.	.00 dB		
150						statu	6		

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### Band4 15MHz QPSK RB75 0 CH20025

um Analyser - Occupied Bi	V		na kiter titi in			200000	AN ALWARD AND A	-0-0-0-
	I GHz #FGein:Low	Center Trig: F	Freq: 1.7175 ree Run			Radio Std: None Frequer Radio Device: BTS		Frequency
		~~~~	-					Center Fre 1.717500000 GH
			-			1	_	
	-		-			V	~~~~	
	_		_					
18 GHz 20 kHz		#1	/BW 680	kHz				CF Step 2.250000 MH: Auto Mar
ed Bandwidt	:h		Total F	ower	30.	7 dBm		Auto Ma
13	3.378 MI	Hz						Freq Offse
t Freq Error	38.728	kHz	OBW F	ower	99	9.00 %		0 H
ndwidth	14.51 M	IHz	x dB		-26	00 dB		
					STATU	-		
	Ref Offset 138 d Ref 30.00 dBr Ref 30.00 dBr 18 GHz 18 GHz 10 kHz ed Bandwidt 1 1 t Freq Error	# 198 50 50 q1.717500000 GHz #FGaic.Low Ref Offset 138 dB #FGaic.Low Ref Offset 138 dB # 10 100 18 GHz 10 kHz ed Bandwidth 13.378 MI t Freq Error 38.728	ref 0190 bit of the first of th	B B B B B B B B B B B B B B B B B	89 99 C 1 C Market ATT Market ATT C Market ATT	Bit Store Store Automation q 1.717500000 GHz Center Free: 130:000 GHz Augusta est Galaction Augusta Augusta est Galaction est Calaction Augusta est Galaction Augusta Augusta est Galaction Augusta Augusta est Galaction Augusta Augusta est Galaction Augusta Augusta est Galaction est Galaction est Galaction est Galaction est Galaction est Galaction est Galaction est Galaction est Galaction est Galaction est Galaction<	All ARTO PARAMENT AND	B) B

Keysight Spectr	rum Analyser - Occupies		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	1211120-005		-0-10-1			
Center Fre	With Rest State and Length Action State and Length Action <thstate and<br="">Length Action</thstate>								
0 dB/div									
-09 20.0 10.0			Center Fre 1.732500000 GH						
20.0									
00					- mar	_			
60.0									
Center 1.73 Res BW 22		,	VBW 680 kHz		Span 22.5 MH Sweep 1 m	2.250000 MH			
Occupi	ied Bandwi		Total Power	30.7	dBm	Auto Ma			
	1	3.416 MHz				Freq Offse			
Transmi	it Freq Error	2.706 kHz	OBW Power	99.	.00 %	OH			
x dB Ba	ndwidth	14.56 MHz	x dB	-26.0	00 dB				
50				status					

Band4 15MHz QPSK RB75 0 CH20325

Keysight Spec	ctrum Analyser - Occupie			0.000002		1000.000		Second and second	-0-0
Center Fr	eq 1.7475000	39 0 OC WHINE DATI ALTON MUTO (M-5722 PH Mur 16, 2022 2475000000 GHz Center Free; 1.747500000 GHz Radio Std: None Trig: Free Run AvgiHold; 10/10 Radio Device; BTS						td: None	Frequency
10 dB/div	Ref Offset 13. Ref 30.00 d								
20.0 10.0		Anno anno anno anno anno anno anno anno			manner,	·····			Center Freq 1.747500000 GHz
-10.0							1		
40.0									
Center 1.	749 CH2						Sea	n 22.5 MHz	
Res BW 2				VBW 680 ki	łz			veep 1 ms	CF Step 2.250000 MHz
Occup	ied Bandwi	dth 13.427 M	Hz	Total Po	ower	30.9	dBm		Auto Man Freq Offset
	nit Freq Error andwidth	28.433 14.58		OBW Po x dB	ower		.00 % 00 dB		0 Hz
66						STATUS		6	

Band4_15MHz_16QAM_RB16_0_CH20025

1-02-1-02-1-02-1-02-1-02-1-02-1-02-1-02	H 52:03 PM Mar 16, 2022	LIGN AUTO		ENGE-INTI			m Analyser - Occupied BW RF 53.0 DC	Keysight Spe			
Frequency	adio Std: None adio Device: BTS	10/10					#FGain:Low				
							Ref Offset 13.8 dE Ref 30.00 dBm	10 dB/div			
Center Free 1.717500000 GHz								20.0 10.0			
			mm	· march	m.	~		10.0 20.0 30.0			
	have a subserver and a subserver a subserv							40.0			
CF Step 2.250000 MH	Span 22.5 MHz Sweep 1 ms		Hz	BW 680	#\			Center 1. Res BW 2			
Auto Mar Freq Offse	Bm	30.4	ower	Total F	Hz	751 MI	d Bandwidti 3.	Occup			
OH	0 %	99.	ower	OBW F	IHz	-5.2594 M	Freq Error	Transn			
	dB	-26.0		x dB	IHz	4.330 M	dwidth	x dB B			

Band4_15MHz_16QAM_RB16_0_CH20175

1 1 1 1 1 1							and the second second second	and the second second			
Frequency	o Std: None	Radio S		er Freq: 1,73250 Free Run In: 30 dB	Trig	00000 GH	eq 1.73250	Center Fr			
		Ref Offset 13.8 dB to dB/div Ref 30.00 dBm									
Center Free 1.732500000 GH								20.0 10.0			
	_	~~~~	Jan	source and	Whenen		Jan 1	20.0			
	m	han						40.0 50.0			
CF Step 2.250000 MH	pan 22.5 MHz Sweep 1 ms		Hz	#VBW 680 k				Center 1. Res BW 2			
Auto Ma	n	30.3 dBm	ower	Total P	5 MHz		ied Band	Occup			
он		99.00 % -26.00 dB	ower	OBW P	2725 MHz 1.280 MHz	ror -	it Freq Erro				

Band4 15MHz 16QAM RB16 0 CH20325

Keysight Spectrum Ar		N							-0-0-
Center Freq 1	.747500000) GHz #FGain:Low	Trig: I	Freq: 1.747 Free Run 1: 30 dB	500000 GHz AvgiHol	ALIGN ALITO d: 10/10	Radio De	Frequency	
10 dB/div R	ef Offset 13.8 d ef 30.00 dBr	8 n							
20.0 10.0	/		-	-		-			Center Fred 1.747500000 GHz
-10.0	/	×.,	man	er anno		-			
-40.0					- man -		man	www.ww	
60.0 Center 1.748 C	-						Coord	22.5 MHz	
Res BW 220 k				VBW 680	kHz			eep 1 ms	CF Step 2.250000 MHz
Occupied				Total	Power	30.4	dBm		<u>Auto</u> Man
	3.	1772 N	IHz						Freq Offset
Transmit Fi	req Error	-5.2720	MHz	OBW	Power	99	9.00 %		0 Hz
x dB Bandv	vidth	4.467	MHz	x dB		-26.	00 dB		
MSG						statu	5		

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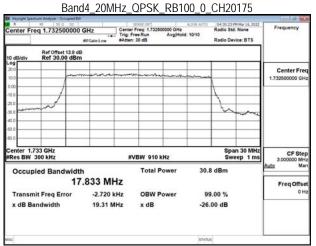
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Band4 20MHz QPSK RB100 0 CH20050

Keysight Spectro	um Analyser - Occupied BW	r		Shinese		
Center Fre	q 1.720000000	Trig	ter Freq 1.72000000 GHz Free Run Avg Hold ten: 30 dB	ALIGN AUTO	Radio Std: None Radio Device: BTS	Frequency
10 dB/div						
20.0 10.0			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Center Fre 1.720000000 GH	
10.00					t –	
30.0					Lann	
40.0						
Center 1.72			#VBW 910 kHz		Span 30 MHz Sweep 1 ms	CF ale
						3.000000 MH Auto Ma
Occupi	ed Bandwidt 17	.800 MHz	Total Power	30.6	dBm	FreqOffse
Transmi	t Freq Error	45.905 kHz	OBW Power	99	.00 %	0 H
x dB Bar	ndwidth	19.18 MHz	x dB	-26.	00 dB	
60				STATUS		



Band4 20MHz QPSK RB100 0 CH20300

enter Fre	eq 1.745000	0000 GH	łz Gein:Low	Center Fr		0000 GHz AvgiHold	ALIGN AUTO	Radio Std: None Radio Device: BTS		Frequency
0 dB/div	Ref Offset 1 Ref 30.00									
0.0		a mm	ennene	nigungalise	~~~~					Center Free 1.745000000 GH
20	- And							L	-	
30										
enter 1.7 Res BW				#VE	SW 910 k	Hz		Spar Swe	n 30 MHz ep 1 ms	CF Step 3 000000 MH
Occup	Occupied Bandwidth 17.858 MH				Total Power 30.					Auto Mai
Transmit Freq Error x dB Bandwidth		15.178 k 19.34 M	Hz	OBW P	OBW Power x dB		9.00 % .00 dB		OH	
0							Statu			

Band4_20MHz_16QAM_RB18_0_CH20050

	#FGain:Low	Center Freq: 1.72000000 GHz Trig: Free Run Avg Hold: 10'10 #Atten: 30 dB			Radio Std: None Radio Device: BTS			
Ref Offset 13.8 di Ref 30.00 dBn								
1	many has		-					Center Free 1.720000000 GH:
nd		- and and a	hornore	Many	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-	Between	
SHz								CF Ster
kHz	h	#V			30.4	Sw		3.000000 MH: Auto Mar
		Ηz						Freq Offse
Transmit Freq Error x dB Bandwidth		0.000	OBW Power					0 Ha
	Hz SHz State	Ref 30.00 dBm 	Her 30.00 dBm	Her 30.00 dBm	Her 30.00 dBm	Her 30.00 dBm Her 30	Fer 30.00 dBm Image: Second	BHZ #VBW 910 kHz Span 30 MHz SHZ #VBW 910 kHz Span 30 MHz SHZ #VBW 910 kHz Span 30 MHz Standard Total Power 30.4 dBm 3.7599 MHz Total Power 99.00 %

Band4 20MHz 16QAM RB18 0 CH20175



Band4 20MHz 16QAM RB18 0 CH20300

R	eq 1.74500000	GH7	SENSE INT	00000 GHz	A IGN MITO	64:37:04 Radio Str	PH Mar 16, 2022 d: None	Frequency
			rig: Free Run Atten: 30 dB	Avg[Hold:	1010	Radio De	vice: BTS	
10 dB/div	Ref Offset 13.8 d Ref 30.00 dBr							
20.0 10.0								Center Fre 1.745000000 GH
10.0	made	m	where the					
30.0	x			heave	harme	5	and the state of t	
-50 0 -60 0			_				and the second second	
Center 1.7 #Res BW 3			#VBW 910	kHz			an 30 MHz eep 1 ms	CF Step 3.000000 MH
Occup	ied Bandwid	th	Total F	ower	30.5 dBm			Auto Mar
	3.	6976 MHz	:					Freq Offse
Transmit Freq Error		-7.3199 MH	Z OBW F	ower	99	.00 %		OH
x dB Ba	ndwidth	5.234 MH	z xdB		-26.	00 dB		
150					STATUS	1		

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Band5 1.4MHz QPSK RB6 0 CH20407

	Analyzer - Occupied BW				-		-0	
Center Freq	824.700000 N	Trans Tr	SENSE 2411 ALIGN AUTO Center Freq: 824.700000 MHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB			Hi Mar 16, 2022 I: None vice: BTS	Frequency	
10 dB/div	Ref Offset 13.6 dE Ref 30.00 dBm							
20.0			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Center Free 824.700000 MHz	
10.0	~~~				~			
40.0								
60.0								
Center 824.7 Res BW 20 k			#VBW 62 kHz		Sweep	5.067 ms	CF Ste 210.000 kH	
Occupied	d Bandwidt		Total Power	30.6	dBm		Auto Ma	
	1.0	0866 MHz					FreqOffse	
Transmit F		-804 Hz	OBW Power	99	9.00 %		0 H	
x dB Band	lwidth	1.286 MHz	x dB	-26.	00 dB			
ea.				statu	5			

A UNICATION ALLAR									Frequency
dB/div	Ref Offset Ref 30.00								
0		1	······	~~~~~~	mun				Center Free 836.500000 MH
0				-	-		han	m	
0					+				
nter 83 s BW 2				#VBW 62	kHz			an 2.1 MHz 5.067 ms	CF Ste 210.000 kH
Occup	Occupied Bandwidth Total Power 30.5 dBm 1.0868 MHz								Auto Ma
Transmit Freq Error x dB Bandwidth					OBW Power 9 x dB -26				01

Band5 1.4MHz QPSK RB6 0 CH20643

Keysight Spect	burn Analyser - Occupied BV	V.			-	10.000		0.0
Center Fre	eq 848.300000 l		Sense 248.30 Irig: Free Run Atten: 30 dB		>10/10	Radio St	PH Mar 16, 2022 d: None evice: BTS	Frequency
10 dB/div	Ref Offset 13.6 d Ref 30.00 dBn							
20.0 10.0	+				~			Center Freq 848.300000 MHz
-10.0	w					~		
40.0								
Center 84							an 2.1 MHz	CF Step
Res BW 2	0 kHz		#VBW 62 k	Hz		Sweep	5.067 ms	210.000 kHz
Occup	Occupied Bandwidth 1.0876 MHz			Power	30.	6 dBm		Auto Man Freg Offset
	it Freq Error Indwidth	-1.431 kH 1.278 MH		ower	100	9.00 % .00 dB		0 Hz
60					STATU			

Band5_1.4MHz_16QAM_RB6_0_CH20407

Frequency	Radio Std: None Radio Device: BTS	Trig: Free Run Avg(Hold: 10'10			Trig: F	AHZ AFGein:Low	24.700000 M	enter Free	
							ef Offset 13.6 dE ef 30.00 dBm	0 dB/div	
Center Fre 824.700000 MH		-			m			0.0	
				-	-			0.0	
	mm			-	-			0.0	
				-	-			00	
CF Ste	Span 2.1 MHz						AHz	enter 824	
210.000 kH Auto Ma	Sweep 5.067 ms		łz	/BW 62 kł	#		z	es BW 20	
FreqOffse	dBm	29.3	ower	Total P	IHz	Occupied Bandwidth 1.0867 M			
0 H	0.00 %	99	ower	OBW P	3.449 kHz O		Transmit Freq Error 3.4		
	00 dB	-26.0		x dB	MHz	1.269	vidth	x dB Bar	

Band5_1.4MHz_16QAM_RB6_0_CH20525

enter Fre	RF 50.0 D		SENSE 2NT	ALIGN ALIFO	07:20:44 PM Mar 16, 2022	
	eq 836.50000	#IFGain:Low	Center Freq: 836.50000 Trig: Free Run #Atten: 30 dB	0 MHz Avg Hold: 10/10	Radio Std: None Radio Device: BTS	Frequency
0 dB/div	Ref Offset 13. Ref 30.00 d					
00 00 00		man	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m		Center Free 836.500000 MH
00	1				-	
enter 83 es BW 2			#VBW 62 kHz		Span 2.1 MHz Sweep 5.067 ms	210.000 kH
Occup	occupied Bandwidth 1.0867 MH		Total Po	wer 29.	4 dBm	-
Transmit Freq Error x dB Bandwidth		2.667 kH			9.00 % .00 dB	
ied Bandwidth 1.0867 Mi it Freq Error 2.667	1.0867 MI 2.667 I	kŀ	Total Po Z Hz OBW Po	wer 29. wer 9	4 dBm 9.00 %	

Band5 1.4MHz 16QAM RB6 0 CH20643

Keysight Spect	rum Analyzer - Occup							
Center Fre	eq 848.3000		Trig:	r Freq: 848.300000 MHz Free Run Avg/He n: 30 dB	ALIGN AUTO	Radio Device	one	Frequency
10 dB/div	Ref Offset 13 Ref 30.00							
20.0 10.0		m	~~~~		m			Center Free 848.300000 MHz
10.0	~						-	
40.0		-			++		~~~	
60.0			_					
Center 841 Res BW 20				VBW 62 kHz		Span 2 Sweep 5.		CF Step 210.000 kH
Occup	ied Bandw		4 MHz	Total Power	29.	2 dBm	4	uto Mar
Transm	it Freq Erro		4 IVITIZ 2.862 kHz	OBW Power	9	9.00 %		Freq Offse 0 H
x dB Ba	ndwidth	1	.269 MHz	x dB	-26	.00 dB		
450					statu			

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Band5 3MHz QPSK RB15 0 CH20415

R	n Andres - Occupied BW NF 50 0 000 1 825.500000 N	Tric Tric	stinct svil Iter Freq: 825.5000 p: Free Run ten: 30 dB	AJGN AUTO 00 MHz Avg[Hold:>10/10	Radio Device	lone	Frequency
10 dB/div	Ref Offset 13.6 dB						
200 100 000							Center Fre 825 500000 MH
20.0					L		
40.0							
60 0 Center 825.	6 Miles				Cross	1.5 MHz	1254 Mar. 10
Res BW 43			#VBW 130 ki	łz	Sweep 2	.333 ms	CF Step 450.000 kH
Occupie	ed Bandwidth 2.6	5842 MHz	Total Po	Total Power 30.	0.9 dBm		reg Offse
Transmit Freq Error x dB Bandwidth		208 Hz 2.945 MHz	OBW Po x dB		9.00 % .00 dB		он
66				statu	6		

	None None	Frequency				
0 dB/div	Ref Offset 13.5 dB Ref 30.00 dBm					
					~~~~~~	Center Frec 836.500000 MH
enter 836 tes BW 43		<u> </u>	VBW 130 kHz		n 4.5 MHz 2.333 ms	CF Step 450,000 kH
Occupi	ied Bandwidti 2.6	h 6893 MHz	Total Power	30.0 dBm		Auto Mar Freg Offse
			2.350 kHz OBW Power 2.968 MHz x dB			0 H3

#### Band5 3MHz QPSK RB15 0 CH20635

Keysight Spect	bum Analyser - Occupi						100000		-0-14-10-
Center Fre	eq 847.50000	00 MHz	Trig: F	Freq: 847.50 ree Run : 30 dB	AvgiHol	ALIGN AUTO	Radio S	evice: BTS	Frequency
10 dB/div	Ref Offset 13 Ref 30.00 c								
.0g 20.0 10.0		~~~~~~			m	m			Center Free 847.500000 MH
0.00							1		
0.0			+	-		-			
80.0									
enter 84 es BW 4			8	VBW 130	KHZ			an 4.5 MHz 2.333 ms	CF Ster 450.000 kH
Occup	Occupied Bandwidth 2.6855 MH			Total Power		31.	0 dBm		Auto Ma
	Transmit Freq Error x dB Bandwidth 2		56 Hz MHz	OBW Power x dB		in the	9.00 % .00 dB		0H
6						statu	5		

### Band5_3MHz_16QAM_RB15_0_CH20415

R	reg 825.500000 N	Illa Can	serve avii ter Freg: 825.500000 MHz	ALIGN AUTO	07:06:36 PM Mar 16, 2022 Radio Std: None	Frequency
Center Pr	eq 825.500000 W	Trig	: Free Run Avg Hok ten: 30 dB	d; 10/10	Radio Device: BTS	
10 dB/div	Ref Offset 13.5 dB Ref 30.00 dBm					]
20.0 10.0	- Jam	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Center Free 825 500000 MH
10.0					$\backslash$	
30.0	m				Summer	
50 0 60 0						
Center 82 Res BW 4			#VBW 130 kHz		Span 4.5 MHz Sweep 2.333 m	450.000 kH
Occup	bied Bandwidth	5911 MHz	Total Power	30.2	dBm	Auto Mar
Transm	nit Freq Error	3.297 kHz	OBW Power	99	.00 %	Freq Offse 0 H
x dB Ba	andwidth	2.960 MHz	x dB	-26.	00 dB	

# Band5 3MHz 16QAM RB15 0 CH20525

Frequency		Radio Std Radio Dev	>10/10		r Freq: 836.50 Free Run h: 30 dB	-e- Trig:		eq 836.500	Center Fr				
								Ref Offset 13.6 dB 0 dB/div Ref 30.00 dBm					
Center Freq 836.500000 MHz					m		m		20.0 10.0				
									0.00				
				-	-				40.0				
									60 0 60 0				
CF Step 450.000 kHz	n 4.5 MHz 2.333 ms			kHz	VBW 130				Center 83 Res BW 4				
Auto Man Freg Offset		) dBm	30.0	Power	Total F	92 MHz		ied Band	Occup				
0 Hz		0.00 % 00 dB		Power	OBW F	1.161 kHz 2.967 MHz	ror	it Freq Err ndwidth					

### Band5 3MHz 16QAM RB15 0 CH20635

	bum Analyser - Occupied BW					-0-0-
Center Fre	eq 847.500000 M	Trig	ter Freq: 847.500000 MHz ; Free Run Avg Hold ten: 30 dB	Radio Std.	1000 Contractor	Frequency
10 dB/div	Ref Offset 13.6 dE Ref 30.00 dBm					
20.0	m	manna		communa		Center Free 347.500000 MHz
-20.0						
40.0						
Center 84	7 6 844			Cnor	4.5 MHz	
Res BW 43			#VBW 130 kHz		2.333 ms	CF Step 450.000 kHz
Occup	ied Bandwidt		Total Power	29.8 dBm	Auto	2 Man
-	and a second	6911 MHz				Freq Offset
	it Freq Error Indwidth	1.430 kHz 2.962 MHz	OBW Power x dB	99.00 % -26.00 dB		
450				status		

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### Band5 5MHz QPSK RB25 0 CH20425

	Ref Offset 13.5 dB	Trig	er Freq: 826.500000 MHz Free Run Avg(Hold	ALIGN MUTO	Radio Std	Mar 16, 2022	Frequency
	Ref Offset 13.6 dB		en: 30 dB	1010	Radio De	100 C 100 C	- 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14
	Ref 30.00 dBm						
20.0							Center Fre 826.500000 MH
10.0					1		
40.0							
60.0							
Center 826. #Res BW 75			#VBW 240 kHz		Spa Sweep	n 7.5 MHz 1.333 ms	CF Step 750.000 kH
Occupie	d Bandwidth		Total Power	31.1	dBm		Auto Mar
	4.4	1838 MHz					Freq Offse
Transmit x dB Ban	Freq Error dwidth	-1.244 kHz 4.998 MHz	OBW Power x dB	in the second	0.00 % 00 dB		он
eia				STATU			

enter Fre	n Analyser - Occupied NW RF 58 9 00 100 1 9 836.500000 M	Trig: I	strise avi r Freq: 836.500000 MHz Free Run Avg[Hold: h: 30 dB	Radio Std:	1000	Frequency
) dB/div	Ref Offset 13.6 dE Ref 30.00 dBm					
					n two they	Center Free 836.500000 MH
enter 836 Res BW 7			VBW 240 kHz	Span Sweep	7.5 MHz 1.333 ms	CF Step 750.000 kH
Occupi	ed Bandwidt 4.4	h 4859 MHz	Total Power	31.1 dBm	6	Freq Offse
Transm x dB Ba	it Freq Error ndwidth	234 Hz 4.969 MHz	OBW Power x dB	99.00 % -26.00 dB		0 H

#### Band5 5MHz QPSK RB25 0 CH20625

Keysight Spec	ctrum Analyzer - Occupied BW	· · · · · · · · · · · · · · · · · · ·		I REAL PROPERTY.	-		0.0
Center Fr	req 846.500000 M	Trig:	r Freq: 846.500000 MHz Free Run Avg/Hold n: 30 dB	4,16N AUTO	Radio Sto	1000	Frequency
10 dB/div	Ref Offset 13.6 dE Ref 30.00 dBm						
20.0 10.0							Center Freq 846.500000 MHz
10.0							
40.0					~	vm	
60.0							
Center 84 Res BW		,	VBW 240 kHz			n 7.5 MHz 1.333 ms	CF Step 750.000 kH
Occup	bied Bandwidt	^h 4852 MHz	Total Power	31.3	dBm		Auto Mar Freg Offse
	nit Freq Error andwidth	-2.550 kHz 4.993 MHz	OBW Power x dB	1000	0.00 % 00 dB		OH
50				statu	5		

### Band5_5MHz_16QAM_RB25_0_CH20425

06:56:47 PM Mar 16, 2022 Radio Std: None					RF. 50.0.0C				
Radio Device: BTS	Center Freq: 826.500000 MHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB			MHz #FGein:Low					
					Ref Offset 13.5 dB Ref 30.00 dBm	10 dB/div			
	mum				0	20.0 10.0			
$\backslash$	-					0.00			
Lanson					-and	30.0			
						60 0			
Span 7.5 MHz Sweep 1.333 ms		W 240 kHz	۳V			Center 82 Res BW			
) dBm	30.0	Total Power	47			Occup			
9.00 %	99	OBW Power				Transm			
00 dB	-26.	x dB	IHz	4.966 N	dwidth	x dB Ba			
	Swee dBm		BW 240 kHz Swee Total Power 30.0 dBm OBW Power 99.00 %	#VBW 240 kHz         Sweet           Total Power         30.0 dBm           Hz	#VBW 240 kHz         Sweet           1         Total Power         30.0 dBm           4778 MHz         7.173 kHz         OBW Power         99.00 %	75 kHz         #VBW 240 kHz         Swee           led Bandwidth         Total Power         30.0 dBm           4.4778 MHz			

Center Freq 8	39 9 00 00 36.500000 N	Trig: I	strise 2x11 r Freq: 836.500000 MHz Free Run Avg[Hold h: 30 dB	Radio 10/10	12 PM Mar 16, 2022 Std: None Device: BTS	Frequency
10 dB/div R	ef Offset 13.6 dB ef 30.00 dBm					
	1	yn mar yn yn mar yn ar yn a				Center Free 836.500000 MH
enter 836.5 M Res BW 75 kl			VBW 240 kHz		pan 7.5 MHz p 1.333 ms	CF Step 750.000 kH
Occupied	Bandwidth 4.4	h 4915 MHz	Total Power	30.0 dBm		Auto Mar Freq Offse
Transmit Fr x dB Bandv		1.245 kHz 4.970 MHz	OBW Power x dB	99.00 % -26.00 dB		0 H

### Band5 5MHz 16QAM RB25 0 CH20625

	trum Analyser - Occupied BW					-0-0-
Center Fre	eq 846.500000 N	Trig:	stree 2x11 Free 846.500000 MHz Free Run Avg[Hold n: 30 dB	4.10110	Radio Std: None Radio Device: B	Frequency
10 dB/div	Ref Offset 13.6 dB Ref 30.00 dBm					
10.0			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Center Free 846.500000 MHz
10.0						-
40.0						
60.0						
Center 84			VBW 240 kHz		Span 7.5 Sweep 1.33	3 ms 750.000 kH
Occup	ied Bandwidti 4.4	^h 4917 MHz	Total Power	30.2	dBm	Auto Mar
	hit Freq Error Andwidth	22 Hz 4.980 MHz	OBW Power x dB		.00 % 00 dB	OH
150				status		

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### Band5 10MHz QPSK RB50 0 CH20450

R 1	and 829.000000	MH7 C	sense anti-	00000 MHz	ALIGN AUTO	Radio St	PM Mar 16, 2022 d: None	Frequency
Contor Pre	14 023.000000	-p- Tr	ig: Free Run tten: 30 dB	AvgiHold	5; 10/10	Radio De	vice: BTS	
10 dB/div	Ref Offset 13.6 d Ref 30.00 dBr							
20.0	~~~	-			hann			Center Free 829.000000 MH
0.00	- A-		-			1		
20.0	and	_	_	-		1	m	
40.0			_					
50 0 60 0								
Center 829 Res BW 15			#VBW 510	kHz			an 15 MHz reep 1 ms	CF Ste 1.500000 MH
Occup	ied Bandwidt	h	Total	Power	31.	3 dBm		Auto Ma
	8.	9515 MHz						Freq Offse
	it Freq Error ndwidth	2.344 kHz 9.758 MHz	OBW x dB	Power		9.00 % .00 dB		OH
50					statu	5		

R	eq 836.500000 M	Tric	stinst 2011 Iter Freq: 836.500000 MHz p: Free Run Avg/Hol ten: 30 dB	ALIGN AUTO	Radio Std: None	Frequency
0 dB/div	Ref Offset 13.6 dE Ref 30.00 dBm	3				
<b>09</b> 10.0						Center Free 836.500000 MH
0.0						_
0.0				-		
00						
enter 83 es BW 1			#VBW 510 kHz		Span 15 N Sweep 1	ms 1.500000 MH
Occup	ied Bandwidt	h 9620 MHz	Total Power	31.	2 dBm	Auto Ma
	o.a nit Freq Error andwidth	1.920 kHz 9.809 MHz	OBW Power x dB		9.00 % 00 dB	Freq Offse 0 H
0				STATU	1	

#### Band5 10MHz QPSK RB50 0 CH20600

Center Fre	eq 844.0000	00 MH2	Z Gain:Low	Center F		000 MHz Avg[Hold	ALIGN ALITO	Radio St	PM Mar 16, 2022 d: None evice: BTS	Frequency
0 dB/div	Ref Offset 1 Ref 30.00									
			-0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		1		Center Free 844.000000 MH2
enter 844									an 15 MHz	CF Step
es BW 1	50 kHz			#V8	3W 510 k				reep 1 ms	1.500000 MH
Occup	led Bandv		52 MI	Ηz	Total P	ower	31.	4 dBm		FreqOffset
	iit Freq Erro Indwidth	я	-2.979 ) 9.738 M	10000	OBW P	ower		9.00 % .00 dB		0 H2
a							statu	5		

#### Band5_10MHz_16QAM_RB16_0_CH20450

Center Fre	eq 829.000000	MHz #FGain:Low	Center	Freq: 829.000 ree Run : 30 dB	000 MHz AvgiHolo	Radio Str	PR Mar 16, 2022 d: None vice: BTS	Frequency	
10 dB/div	Ref Offset 13.6 d Ref 30.00 dBr								
20.0 10.0 0.00									Center Free 829.000000 MHz
10.0 20.0 30.0 40.0 50.0			hu	man	m	Sanageran ()		menum	
Center 82 Res BW 1			#	/BW 510 k	Hz			an 15 MHz eep 1 ms	CF Step 1.50000 MH
Occupied Bandwidth 3.0526 MHz			Total Power			29.9	dBm		Auto Mar Freq Offse
		-3.0355 N 3.809 N			ower		0.00 % 00 dB		0 H

## Band5_10MHz_16QAM_RB16_0 CH20525

Center Fre	eq 836.50000		Center Trig: F	Center Freq: 836.500000 MHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB			r PH Mar 16, 2022 td: None evice: BTS	Frequency
10 dB/div								
20.0 10.0	~	m			_	_		Center Freq 836.500000 MHz
0 00 10 0 20 0			Anna	-	m	vn		
40.0 50.0						1.1	American	
Center 83 Res BW 1			<i>#</i> \	/BW 510 kHz			an 15 MHz veep 1 ms	CF Step
Occup	Occupied Bandwidth 3.0503 MHz		Ηz	Total Power		29.6 dBm		Auto Man Freq Offset
	Transmit Freq Error - x dB Bandwidth		IHz OBW Pow IHz x dB		wer 99.00 -26.00			0 Hz

### Band5 10MHz 16QAM RB16 0 CH20600

Keysight Spectrum Analyzer - Occupi				
Center Freq 844.00000	00 MHz Cer	strop 2x11 Iter Freq: 844,000000 MHz 2: Free Run Avg[Hold Iten: 30 dB	ALIGN AUTO 06 52:49 PM Mar 16 Radio Std: None >10/10 Radio Device: BT	Frequency
Ref Offset 13 10 dB/div Ref 30.00 c				
200 /~~	m			Center Free 844.000000 MHz
10.0 20.0 30.0	<u> </u>	many	untur	_
40.0			- Martine	Vera
Center 844 MHz Res BW 150 kHz		#VBW 510 kHz	Span 15 I Sweep 1	
Occupied Bandw	idth 3.0359 MHz	Total Power	29.8 dBm	Auto Mar
Transmit Freq Error		OBW Power x dB	99.00 %	0H
			have	
MSG			ISTATUS	

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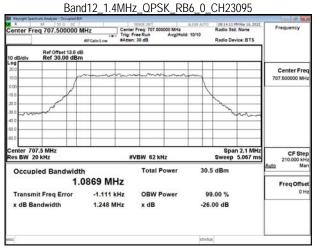
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### Band12 1.4MHz_QPSK_RB6_0_CH23017

Keysight Spectrum Analyzer - Occupied					-0-0-0
Center Freq 699.700000	0 MHz C	stree Freq: 699.700000 MHz Ig: Free Run Avg[Ho Itten: 30 dB	ALIGN ALITO	Radio Std: None Radio Device: BTS	Frequency
Ref Offset 13.6 10 dB/div Ref 30.00 dB					
20.0 10.0	mm	m	my		Center Free 699.700000 MH
0 00 10 0 20 0					-
30.0				man	-
60.0			$\mp$		1
Center 699.7 MHz Res BW 20 kHz		#VBW 62 kHz		Span 2.1 MH Sweep 5.067 m	210.000 kH
Occupied Bandwid	dth	Total Power	30.3	3 dBm	Auto Ma
1	.0861 MHz				Freq Offse
Transmit Freq Error	-190 Hz	OBW Power	99	.00 %	0 H
x dB Bandwidth	1.245 MHz	x dB	-26.	00 dB	
60			statu	5	



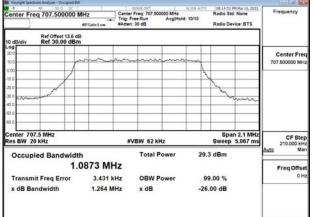
### Band12 1.4MHz QPSK RB6 0 CH23173

Keysight Spec	thum Analyzer - Occupied BW RF 58 0. 00	S	SENSE ONT	ALIGN AUTO DEL17-41	PM Mar 16, 2022	00
Center Fr	eq 715.300000 M	HZ #FGein:Low Atter	td: None evice: BTS	Frequency		
10 dB/div	Ref Offset 13.6 dE Ref 30.00 dBm					
20.0 10.0	r					Center Freq 715.300000 MHz
10.0 20.0				- h		
40.0 60.0						
Center 71 Res BW 2			VBW 62 kHz		an 2.1 MHz 5.067 ms	CF Step 210.000 kHz
Occup	Occupied Bandwidth 1.0868 Mi		Total Power	30.5 dBm		Freq Offset
Transmit Freq Error x dB Bandwidth		-1.381 kHz 1.289 MHz	OBW Power x dB	99.00 % -26.00 dB		0 Hz
60				status		

### Band12_1.4MHz_16QAM_RB6_0_CH23017

Frequency	Radio Std: None Radio Device: BTS		NY         35 00         C         States putition         Autors           Freq 699.700000 MHz         Criter Freq 699.700000 MHz         Trig: Free Run         Avg/Hold: 10/10           #FGainLow         #FGainLow         #Atten: 30 dB         Avg/Hold: 10/10					
						Offset 13.6 dB 30.00 dBm	0 dB/div	
Center Fre 699.700000 MH			~~~~~	ama	-	$\rightarrow r$	og 0.0	
			-				0.0	
	mon		-			r	0.0	
			_				00	
CF Ster 210.000 kH	Span 2.1 MHz Sweep 5.067 ms		kHz	#VB		łz	enter 699. es BW 20	
Auto Ma	ccupied Bandwidth Total Power 29.3 dBm 1.0867 MHz				Occupie			
Freq Offse 0 H	00 %	99.00 %		0 kHz OBW Power		the second s		
	0 dB	-26.	x dB		1.259 N	x dB Bandwidth		

### Band12 1.4MHz 16QAM RB6 0 CH23095



#### Band12 1.4MHz 16QAM RB6 0 CH23173

Keysight Spectr	rum Analyzer - Occupie								-02-02-04-
Center Fre	rq 715.30000		Trig:	SENSE SHT ALIGN AUTO Center Freq: 715.300000 MHz Trig: Free Run Avg[Hold: 10/10 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency
10 dB/div	Ref Offset 13. Ref 30.00 d	6 dB Bm							
20.0		m				~	-		Center Free 715.300000 MHz
-10.0							~		
30.0 40.0	Sam			-		+		man	
60.0									
Center 715 Res BW 20				VBW 62 kH	iz			n 2.1 MHz 5.067 ms	CF Step 210.000 kH
Occupi	ied Bandwi			Total P	ower	29.7	dBm		<u>Auto</u> Mar
Tranemi	it Freg Error	1.0875	MHZ 90 kHz	OBW P	ower	00	9.00 %		Freq Offset 0 Hz
x dB Ba			2 MHz	x dB	ower		00 dB		
450						STATU	5		

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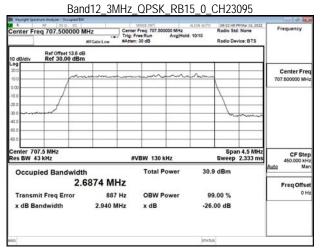
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### Band12 3MHz QPSK RB15 0 CH23025

Keysight Spectro	um Analyzer - Occupied BW	5	and the second second	100 M 1444		0.423.042			- 6 -
Center Fre	q 700.500000 N		Center Freq: 700.500000 MHz Trig: Free Run Avg(Hold: 10/10 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency	
10 dB/div	Ref Offset 13.6 dB Ref 30.00 dBm								
20.0 10.0	m			m	hong	_			nter Fre 00000 MH
-10.0					Ì				
30.0			_		_	h	m		
60.0			_						
Center 700 Res BW 43			#VBW 1301	KHZ	5		n 4.5 MHz 2.333 ms		CF Ster 50.000 kH
Occupi	ed Bandwidth		Total F	ower	30.8 0	1Bm		Auto	Mar
Transmi	Z.t	3.393 kHz		lawar	00 (	00 %		Fr	eq Offse
x dB Bar		2.929 MHz		ower	-26.00				
60					status				



### Band12 3MHz QPSK RB15 0 CH23165

Keysight S	ipectrum Analyser - Occup			-	se anti		ALIGN AUTO		PM Mar 16, 2022	-0-0-
enter	Freq 714.5000	000 MHz		Center Freg: 714.500000 MHz			Radio Device: BTS		Frequency	
0 dB/div	Ref Offset 1 Ref 30.00									
.0g 20.0 10.0		~~~~					mm-			Center Free 714.500000 MH
0.00	- /			-				$\left\{ \right.$		
000	~							6	mm	
50.0				_						
	714.5 MHz 43 kHz			#VB	W 130 k	Hz			n 4.5 MHz 2.333 ms	CF Step 450.000 kH
Occu	Occupied Bandwidth 2.6873 MHz					30.7	dBm		Auto Mi	
	Transmit Freq Error x dB Bandwidth		-1.992 kH 2.956 MH					99.00 % -26.00 dB		он
60										
903							STATUS			

### Band12_3MHz_16QAM_RB15_0_CH23025

Frequency		Radio Std: None Radio Device: BTS		Center Freq: 700.500000 MHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB			#F 58 0 00 000 MHz #FGein:Low			enter Fr
									Ref Offse Ref 30.	0 dB/div
Center Free 700.500000 MH						~~~~		pos		.0g 20.0 10.0
								/	1	0.00
		~		-	-				and	40.0
				-	-			-		50 0 60 0
CF Step 450.000 kH	n 4.5 MHz 2.333 ms			kHz	BW 130	#\				Center 70 Res BW 4
Auto Mar Freg Offse		29.8 dBm			Total Power		Occupied Bandwidth 2.6877 MH		Occup	
OH		99.00 %				kHz	4.345	Transmit Freq Error 4.345		
		-26.00 dB		x dB -:		2.962 MHz		x dB Bandwidth		

### Band12 3MHz 16QAM RB15 0 CH23095

Keysight Spec	trum Analyser - Occupi			SENSE 2NT	1. A.	ALIGN AUTO	100000	PM Mar 16, 2022		19 -
enter Fr	eq 707.5000	Trig:	Center Freq: 707.500000 MHz			Radio Std: None Radio Device: BTS		Frequency		
0 dB/div	Ref Offset 13 Ref 30.00 d									
00 0.0 0.0						~~~~~				Iter Free
0.0			-				1			
40 0 50 0 50 0										
enter 70 es BW 4			,	VBW 130 k	Hz			n 4.5 MHz 2.333 ms	45	CF Step 0.000 kH
Occup	ied Bandw	idth 2.6892 M	IHz	Total P	ower	30.2	30.2 dBm		Auto	
Transmit Freq Error x dB Bandwidth		r 4.452 2.956		OBW Power x dB		99.00 % -26.00 dE				0 H

#### Band12 3MHz 16QAM RB15 0 CH23165

	ourn Analyzer - Occupied BW					
Center Fre	aq 714.500000 N	Trig	ter Freq: 714.500000 MHz : Free Run Avg/Hol en: 30 dB	4.164 AUTO	Radio Device: E	Frequency
10 dB/div	Ref Offset 13.6 dB Ref 30.00 dBm					
20.0 10.0	- J	mmmmmm				Center Free 714.500000 MH
20.0						_
40.0	a				have	
60.0						
Center 714 Res BW 43			#VBW 130 kHz		Span 4.5 Sweep 2.33	33 ms 450.000 kH
Occupi	Occupied Bandwidth 2.6921 M		Total Power	30.0	dBm	Auto Mar Freg Offse
Transmit Freq Error x dB Bandwidth		47 Hz 2.967 MHz	OBW Power x dB	99.00 % -26.00 dB		он
50				STATUS	1	

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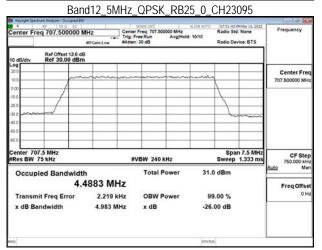
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### Band12 5MHz QPSK RB25 0 CH23035

	Analyzer - Occupied BV	V	Contra State State	an a	-		-0	
	701.5000001		enter Freq: 701.500000 N rig: Free Run Av Atten: 30 dB	ALIGN AUTO AHz giHold: 10/10	Radio De		Frequency	
10 dB/div	Ref Offset 13.5 di Ref 30.00 dBn							
20.0 10.0							Center Fr 701.500000 M	
0.00 10.0 20.0					1			
40.0	~~				~			
60.0								
Center 701.5 #Res BW 75			#VBW 240 kHz			n 7.5 MHz 1.333 ms	CF St 750.000 k	аĤ
Occupie	d Bandwidt		Total Powe	er 30.1	9 dBm		Auto N	tar
	and the second	4759 MHz					Freq Offs	
Transmit x dB Band	Freq Error dwidth	1.864 kHz 4.961 MHz			9.00 % .00 dB		0	H
50				STATU				_



### Band12 5MHz QPSK RB25 0 CH23155

Keysight Spect	burn Analyser - Occupied BW	r		NAME OF			0.0
Center Fre	eq 713.500000 M	Trig	er Freq: 713.500000 MHz Free Run Avgilito In: 30 dB	ALIGN AUTO	Radio Devic	None	Frequency
10 dB/div	Ref Offset 13.6 dE Ref 30.00 dBm						
.0g 20.0 10.0			manna				Center Free 713.500000 MHz
0.00				-	$\backslash$		
00					ha		
50 0 60 0							
enter 71 Res BW			FVBW 240 kHz		Span Sweep 1		CF Step 750.000 kH
Occup	ied Bandwidt 4.4	^h 4802 MHz	Total Power	30.5	dBm	4	Freq Offse
	it Freq Error Indwidth	-734 Hz 4.974 MHz	OBW Power x dB		9.00 % 00 dB		OH
50				statu	5		

#### Band12_5MHz_16QAM_RB25_0_CH23035

	DO MHz		Center F	req: 701.5000 ee Run	Avg[Hold		Radio St	d: None	Frequency
						·			Center Free 701.500000 MHz
							1		
mant	_				-		-	unhama.	
1.5 MHz 75 kHz			#V	BW 240 k	Hz		Spa Sweep	an 7.5 MHz 1.333 ms	CF Step 750.000 kH
		30 MI	۰z	Total P	ower	30.0	dBm		Auto Mar Freq Offse
it Freq Error ndwidth	r		1000		ower				0 H
	g 701.50000 Ref Offset 13 Ref 30.00 0 	g 701.500000 MH2 arc Ref 096.10 200 dBm 5 MH2 5 MH2 ed Bandwidth 4.48 t Freq Error	g 701.500000 MHz #FGainLow Ref 30.00 dBm 5 MHz ed Bandwidth 4.4830 MH t Freq Error 1.322 J	g 701.500000 MHz Center Trg. Pr #TGinLew Ref 30.00 dBm Ref 30.00 dBm 5 MHz 54 45 45 5 MHz 54 45 5 KHz 54 6 Bandwidth 4.4830 MHz t Freq Error 1.322 kHz	g 701.500000 MHz at GaincLow There is the isotropy of the is	Ref Officer 135 dB Ref 30.00 dBm .5 MHz 5 KHz 4 KH2 5 KHz 4 KH2 5 KHz 5	g 701.500000 MHz #Carter Yes; 701.50000 MHz #Carter Yes; 701.50000 MHz #Carter Yes; 701.50000 MHz Argitide: 1010 #Argitide: 1010 #Argiti	g 701.500000 MHz arGanicLew Ref 30.00 dBm Comer Freq 201.50000 MHz Atten: 30 dB Ref 30.00 dBm Shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz shtz sh	g 701.500000 MHz #Carter Yes, 701.50000 MHz #Carter Yes,

### Band12 5MHz 16QAM RB25 0 CH23095

0750:53 PM Radio Std: Radio Devi	ALIGN AUTO	7.50000 MHz AvgiHold		HZ #FGain:Low	Ref Offset 13.6 dB Ref 30.00 dBm	0 dB/div
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~	-		<b>9</b> 00 00
		nn	~~~~~~	~~~~~		0.0
\langle		-				00
						30
Span Sweep		40 kHz	#VI			enter 707 Res BW 7
1 dBm	30.	al Power	łz			Occupi
	100		Hz	862	it Freq Error	Transmi x dB Ba
	Sweer 1 dBm 9.00 %		BW 240 kHz Sweet Total Power 30.1 dBm OBW Power 99.00 %	#VBW 240 kHz Sweet Total Power 30.1 dBm Iz Hz OBW Power 99.00 %	#VBW 240 kHz Sweet 1 Total Power 30.1 dBm 1901 MHz 862 Hz OBW Power 99.00 %	5 kHz #VBW 240 kHz Sweet ed Bandwidth Total Power 30.1 dBm 4.4901 MHz treq Error 862 Hz OBW Power 99.00 %

Band12 5MHz 16QAM RB25 0 CH23155

	ourn Analyzer - Occupied BW						0-0-0-
Center Fre	aq 713.500000 M	Trig:	r Freq: 713.500000 MHz Free Run Avg[Hold n: 30 dB	4.16N AUTO	Radio Std	1000	Frequency
10 dB/div	Ref Offset 13.5 dE Ref 30.00 dBm	ł.,					
20.0 10.0	m	man					Center Free 713.500000 MH
10.0					1		
40.0	~~~				han	m	
60.0							
Center 713 #Res BW 7			VBW 240 kHz			n 7.5 MHz 1.333 ms	CF Step 750.000 kH
Occupi	ied Bandwidti 4.4	1 1789 MHz	Total Power	30.0) dBm		Auto Mar Freg Offse
	it Freq Error ndwidth	135 Hz 4.952 MHz	OBW Power x dB	1000	0.00 % 00 dB		0 H
66				status	5		

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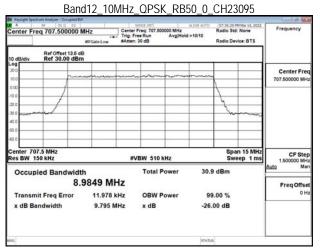
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Band12 10MHz QPSK RB50 0 CH23060

R 1	rg 704.000000 M	Trig	sther still er Freg: 704,000000 MHz Free Run AvgiHold er: 30 dB	10/10	07-32-02 PH Mar 14, 2022 Radio Std: None Radio Device: BTS	Frequency
10 dB/div	Ref Offset 13.6 dB Ref 30.00 dBm					1
20.0 10.0				mining		Center Free 704.000000 MH
10.00					1	
30.0					June	
60.0						
Center 704 Res BW 15			#VBW 510 kHz		Span 15 MHz Sweep 1 ms	1.500000 MH
Occupi	ed Bandwidth		Total Power	31.0 c	iBm	Auto Mar
		9521 MHz				Freq Offse
Transmi x dB Bar	it Freq Error ndwidth	8.316 kHz 9.731 MHz	OBW Power x dB	99.0 -26.00		
60				STATUS		

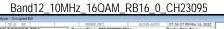


Band12 10MHz QPSK RB50 0 CH23130

Keysight Spect	trum Analyser - Occupied B	w			122224		0 6 0
Center Fre	eq 711.000000	Trig	strice SNIT Iter Freq: 711.000000 MHz g: Free Run Avg(Hol ten: 30 dB	d; 10/10	Radio Std: No Radio Device	one Fri	equency
10 dB/div	Ref Offset 13.6 d Ref 30.00 dBr						
20.0 10.0	- p~						Center Freq .000000 MHz
10.0						_	
40.0	mat			-		Munacico	
60.0							
Center 71 tes BW 1			#VBW 510 kHz		Span 1 Sweep	1 ms 1	CF Step 500000 MH
Occup	ied Bandwid 8.	th 9434 MHz	Total Power	31.0) dBm	Auto	Mar Freq Offse
	nit Freq Error andwidth	11.997 kHz 9.703 MHz	OBW Power x dB	100	0.00 % 00 dB		0 H
50				statu	5		

Band12_10MHz_16QAM_RB16_0_CH23060

Frequency	St PM Mar 14, 2022 Std: None Device: BTS	Radio Str	ALIGN AUTO	00000 MHz AvgiHold	Freq: 704.0 ree Run : 30 dB	Center	Z Gain:Low	Contract in the second second second	rq 704.000	Center Fre
									Ref Offset Ref 30.0	10 dB/div
Center Free 704.000000 MH							nummy			20.0 10.0 0.00
		~~~~	www	him	m	han			1	10.0 20.0 30.0
		- Jan				-				40.0
CF Step 1.500000 MH	pan 15 MHz weep 1 ms			kHz	VBW 510	a7				Center 70 Res BW 1
Auto Mar Freq Offse		.8 dBm	29.8	Power	Total	Hz	58 MI		ied Band	Occup
он		9.00 %	99	Power	OBW	IHz	3.0307 N	ror -	it Freq En	Transm
		5.00 dB	-26.		x dB	IHz	3.670 N		ndwidth	x dB Ba



Center Fr	req 707.500000		Trig: Free!		MHz vg[Hold: 10/10	Radio Std		Frequency
	<u>.</u>	#IFGein:Low	#Atten: 30	dB		Radio Dev	vice: BTS	
10 dB/div	Ref Offset 13.6 d Ref 30.00 dBr							
20.0 10.0		m				_		Center Freq 707.500000 MHz
-10.0			hum	Winner	manna			
40.0	www							
60.0 Center 70	07.5 MHz						n 15 MHz	
Res BW			#VB	N 510 kHz			eep 1 ms	CF Step 1.500000 MHz
Occup	pied Bandwid	th	0	Total Pov	ver 2	9.8 dBm		Auto Man
	3.	0240 MH	z					Freq Offset
Transn	nit Freq Error	-3.0310 MH	łz i	OBW Pow	ver	99.00 %		0 Hz
x dB B	landwidth	3.692 MH	łz	x dB	-2	26.00 dB		

#### Band12 10MHz 16QAM RB16 0 CH23130

Keysight Spect	bum Analyser - Occupie			to the second		14 M. Law 199	-		-0-0-0-
Center Fre	eq 711.00000	0 MHz	Trig: I	r Freq: 711.000 Free Run h: 30 dB		ALIGN AUTO	Radio Std	1000	Frequency
10 dB/div	Ref Offset 13. Ref 30.00 d								
200 10.0	5	*****	1						Center Free 711.000000 MH
-10.0			den.	many	~				
40.0							500		
Center 71 Res BW 1				VBW 510	(Hz			n 15 MHz ep 1 ms	CF Step 1.50000 MH
Occup	ied Bandwi	dth 3.0536 M	IHz	Total P	ower	29.	9 dBm		Auto Ma
	it Freq Error Indwidth	-3.0272 3.812		OBW P x dB	ower	in the second	9.00 % .00 dB		он
150						statu	5	17	

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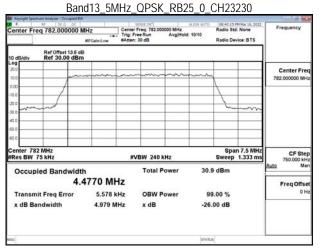
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### Band13 5MHz QPSK RB25 0 CH23205

Keysight Spectrum Analyzer - Occupied Bi	N		191122-00	9-2		-0-10-5
Center Freq 779.500000	Trig.	er Freq: 779.500000 MHz Free Run AvgiHolo en: 30 dB	ALIGN AUTO 2: 10/10	Radio Std		Frequency
Ref Offset 13.5 d 10 dB/div Ref 30.00 dBr						
20.0 10.0	m					Center Free 779.500000 MH
10.0				1		
40.0				ha	hand	
60.0						
Center 779.5 MHz #Res BW 75 kHz		#VBW 240 kHz			n 7.5 MHz 1.333 ms	CF Ste 750.000 kH
Occupied Bandwidt	th	Total Power	30.8	dBm		Auto Mar
4.	4880 MHz					Freq Offse
Transmit Freq Error	4.271 kHz	OBW Power	99	.00 %		0 H
x dB Bandwidth	4.949 MHz	x dB	-26.	00 dB		
e50			status	1		



### Band13 5MHz QPSK RB25 0 CH23255

Keysight Spec	ctrum Analyzer - Occupied BW	· · · · · · · · · · · · · · · · · · ·	the second s	UNITED STATES	-	-0-0-0
Center Fr	eq 784.500000 M	Trig	er Freq: 784.500000 MHz Free Run Avg[Hol n: 30 dB	4.164 AUTO	Radio Std: Non Radio Device: E	Frequency
10 dB/div	Ref Offset 13.5 dE Ref 30.00 dBm					
.0g 20.0 10.0	Jun	www.				Center Free 784.500000 MHz
0.00						
10.0					·	~~
50 0 60 0						
Center 78 Res BW		,	VBW 240 kHz		Span 7.5 Sweep 1.33	33 ms 750.000 kH
Occup	ied Bandwidt	^h 4848 MHz	Total Power	31.0	) dBm	Auto Mar Freg Offse
	nit Freq Error andwidth	-1.030 kHz 4.985 MHz	OBW Power x dB		0.00 % 00 dB	OH
50				STATUS	5	

#### Band13_5MHz_16QAM_RB25_0_CH23205

	Hz Cente #FGein:Low #Atter	Free Run Avg Hold n: 30 dB		d: None vice: BTS	
Ref Offset 13.6 dB Ref 30.00 dBm					
			mann		Center Free 779.500000 MHz
5 MHz			Spa	n 7.5 MHz	
5 kHz		VBW 240 kHz		1.333 ms	CF Step 750.000 kH
		Total Power	29.9 dBm		Auto Mar Freq Offset
Freq Error dwidth	5.359 kHz 4.989 MHz	OBW Power x dB	99.00 %		0 H
	Ref Offiset 13.6 dB Ref 30.00 dBm 5 MHz 5 MHz 5 KHz 5 KHz 4.4 Freq Error	Ref Offset 13.6 dB Ref 30.00 dBm 5 MHz 5 MHz 8 dBandwidth 4.4941 MHz Freq Error 5.359 kHz	Ref Officet 13.6 dB Ref 30.00 dBm 5 MHz svBW 240 kHz 3 MHz svBW 240 kHz 3 dBandwidth Total Power 4.4941 MHz Freq Error 5.359 kHz OBW Power	Ref 30.00 dBm Ref 30.00 dBm 5 MHz #VBW 240 kHz Spa skHz #VBW 240 kHz Sweep 240 Bandwidth Total Power 29.9 dBm 4.4941 MHz Freq Error 5.359 kHz OBW Power 99.00 %	Ref Offset 13.6 dB Ref 30.00 dBm 5 MHz Street 13.6 dB 5 MHZ Street 13.6

# Band13 5MHz 16QAM RB25 0 CH23230

Center F	req 782.000000 N		Center Freq: 78 Trig: Free Run #Atten: 30 dB	2.000000 MHz Avg/Hold	:>10/10	Radio Sto		Fre	quency
10 dB/div	Ref Offset 13.6 dB Ref 30.00 dBm								
20.0 10.0		~~~~~	~~		~~~~				enter Freq 200000 MHz
-10.0 -20.0						7			
40.0 50.0									
Center 7 #Res BW	82 MHz 75 kHz		#VBW 2	40 kHz			n 7.5 MHz 1.333 ms		CF Step
Occu	pied Bandwidti 4.4	h 4797 MH:		al Power	29.8	3 dBm		Auto	Man req Offset
	nit Freq Error Jandwidth	7.555 kH 4.958 MH		V Power B		9.00 % 00 dB			0 Hz

### Band13 5MHz 16QAM RB25 0 CH23255

RF 50.0 DC				
eq 784.500000 N	Trig	er Freq: 784.500000 MHz Free Run Avg/Hold	ALIGN AUTO 08-43:14 PM Mar 1 Radio Std: None 10/10 Radio Device: B	Frequency
- pm				Center Free 784.500000 MHz
			harrow	~
4.5 MHz 75 kHz	3	#VBW 240 kHz	Span 7.5 Sweep 1.33	3 ms 750.000 kH
		Total Power	29.9 dBm	Auto Mar
it Freq Error ndwidth	-2.807 kHz 4.961 MHz	OBW Power x dB	99.00 % -26.00 dB	OH
			status	
	Ref Office 13.6 dB Ref 30.00 dBm And the second dBm	erGentue Ref 35.6 dB Ref 30.00 dBm Part 13.5 dB Ref 30.00 dBm 1000	Ref Offer 135 dB Ref 30.00 dBm 15 MHz 15 MHz 15 KHz 16 Bandwidth 14.4863 MHz 16 DBW Power 12.807 kHz 16 DBW Power	Atten 30 dB Ref Offset 136 dB Ref 30.00 dBm Atten 30.0

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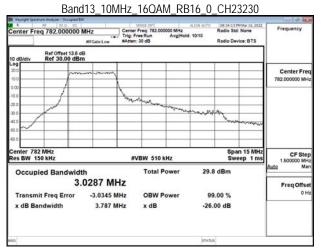
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### Band13 10MHz QPSK RB50 0 CH23230

Keysight Spectrum Analyzer - Occupied BM     R RF 50 0.00	r-	SENSE ONT	ALIGN AUTO	08:29:07 PM Mar 16, 2022	0.0
Center Freq 782.000000 M	q 782.000000 MHz #FGein:Low Center Freq: 782.000000 MHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB				Frequency
10 dB/div Ref 30.00 dBm					
20.0					Center Free 782.000000 MH
000					
00 mm				man	
60.0					
Center 782 MHz Res BW 150 kHz		#VBW 510 kHz		Span 15 MHz Sweep 1 ms	CF Ste 1.500000 MH
Occupied Bandwidt	h	Total Power	31.1	dBm	Auto Ma
8.	9372 MHz				Freq Offse
Transmit Freq Error	11.291 kHz	OBW Power	99.	00 %	0 H
x dB Bandwidth	9.713 MHz	x dB	-26.0	0 dB	
60			status		



### Band17 5MHz QPSK RB25 0 CH23755

Keysight Sp	ectrum Analyser - Occupied BW	6	strop and	ALIGN AUTO	-		0.0
Center F	req 706.500000 M					M Mar 17, 2022 d: None wice: BTS	Frequency
10 dB/div	Ref Offset 13.6 dE Ref 30.00 dBm						
20.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					Center Free 706,500000 MH
10.0				-			
30.0				-		man	
10.0 50.0				-			
	06.5 MHz					in 7.5 MHz	CF Ster
Res BW	75 kHz		VBW 240 kHz		Sweep	1.333 ms	750.000 kH Auto Mar
Occu	pied Bandwidt 4.4	4911 MHz	Total Power	31.0	0 dBm		Freq Offse
	mit Freq Error Bandwidth	-1.753 kHz 5.010 MHz	OBW Power x dB		9.00 % .00 dB		он
50				statu	5		

#### Band17_5MHz_QPSK_RB25_0_CH23790

R .	reg 710.000000 N	10.	sense anti nter Freg: 710.00		ATEN MUTO	09-47-22	M Har 17, 2022	Frequency
Center Pi	req 710.00000 w	Tri	g: Free Run tten: 30 dB	Avg[Hold:	10/10	Radio Device: BTS		
10 dB/div	Ref Offset 13.6 dB Ref 30.00 dBm							
20.0								Center Free 710.000000 MH
0.00						$\Lambda$		
20.0						1	-	
40.0						~		
60 0 60 0			_					
Center 7			#VBW 240	kHz			n 7.5 MHz 1.333 ms	CF Step 750.000 kH
Occup	pied Bandwidth		Total F	Power	30.9	dBm		Auto Mar
Trance	4.4 nit Freg Error	1874 MHz 7.336 kHz	OBW F	Power	00	.00 %		Freq Offse
	landwidth	4.991 MHz	x dB	ower		00 dB		
dB B	andwidth	4.991 MHz	x dB		-26.	00 dB		

### Band17 5MHz QPSK RB25 0 CH23825

									Keysight Spectr			
Center Freq: 713.500000 MHz Radio Std: None				Center Freq: 713.500000 MHz Radi Trig: Free Run Avg/Hold: 10/10		3.500000 MHz			enter Fre			
								Ref Offset 13.5 dB dB/div Ref 30.00 dBm				
									00			
	1							1	20			
	~~~								10 10 30			
			KHz (Hz	/BW 240					enter 713 Res BW 7			
		30.9	ower	Total F	47	96 MI		ed Band	Occupi			
	99.00 % -26.00 dB		ower	OBW P	kHz	-2.525			Transmi x dB Bar			
	i: None vice: BTS	Radio Device: BTS	Radio Ster. None Radio Device: BTS Radio Device: BTS Span 7.5 MHz Sweep 1.333 ms 30.9 dBm 99.00 %	AvgHod: 1010 AvgHod: 1010 Radio Device: BTS Radio Device: BTS Span 7.5 MHz Sweep 1.333 ms rower 30.9 dBm rower 99.00 %	Preg. 71300000 MHz res Run ArgyNold: 1010 20 dB Radio Davids: BTS Radio Davids: BTS	Center Prez 113 300000 MHz Radio Std: None Tring Prez Mm AvgiHod: 1010 RAdio: 20 dB Std: 1010 Radio Device: BTS Span 7.5 MHz SvBW 240 kHz Sweep 1.333 ms Total Power 30.9 dBm Hz cHz OBW Power 99.00 %	Z Carrier Free 713.300000 MHz Radio Stat: None Gant.dev Tree Run Arginod: 1010 Radio Device: BTS Radio Device: BTS September 2010 High Sector State Sector State State State None Radio Device: BTS Sector State State None Radio Device: BTS Sector State State None Radio Device: BTS Sector State State None Radio Device: BTS State None Radio Device: BTS State State None State State State None State State None Radio Device: BTS State State None Radio Device: BTS State State State None State State State None Radio Device: BTS State State State None State State State State State None State	Storation Autoration Reside Attention 000 MHz Center Freq. 715.0000 MHz Reside Device: BTS BFGainLow Freq. Auginedict.0010 Radio Device: BTS 13.6 dB 0 dBm 0 0 0 VBW 240 KHz Span 7.5 MHz Span 7.5 MHz VBW 240 KHz Sweep 1.333 ms width Total Power 30.9 dBm 4.4796 MHz OBW Power 99.00 %	g 713.500000 MHz #fGitter. BefOre: 13.600 Ref 30.00 dBm Comer Prog. 713.50000 MHz Atter: 20 dB Ref 30.00 dBm Comer Prog. 713.50000 MHz Radio Davids: B15 Ref 30.00 dBm Comer Prog. 713.50000 MHz Radio Davids: B15 Ref 30.00 dBm Comer Prog. 713.50000 MHz Span 7.5 MHz System 1.333 ms ed Bandwidth Cotal Power Cotal P			

Band17 5MHz 16QAM RB25 0 CH23755

Keysight Spect	bum Analyser - Occupied BW					-2363
Center Fre	aq 706.500000 N	Trig	ter Freq: 706.500000 MHz : Free Run Avg[Hok en: 30 dB	Radio S	AM Mar 17, 2022 d: None evice: BTS	Frequency
10 dB/div	Ref Offset 13.5 dB Ref 30.00 dBm					
20.0 10.0	- pm			m_m		Center Free 706.500000 MH
0.00 10.0 20.0				h		
30.0					m	
Center 70					an 7.5 MHz	25425524
Res BW			#VBW 240 kHz		1.333 ms	CF Step 750.000 kH
Occup	ied Bandwidti 4.4	h 4873 MHz	Total Power	30.2 dBm	l l	Freg Offse
	it Freq Error Indwidth	-507 Hz 4.964 MHz	OBW Power x dB	99.00 % -26.00 dB		OH
150				status		

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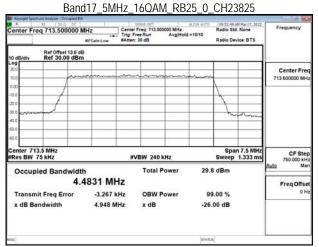
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Band17 5MHz 16QAM RB25 0 CH23790

Keysight Spect	num Analyser - Occu				S12.52		12. N. 17. W. 19. W.	10.010308	1111012-00		-0-10-10-		
Center Fre	ter Freq 710.000000 MHz #FGein:Low				Freq 710.000000 MHz Center Freq: 710.000000 MHz Trig: Free Run Avg Hold: 10/10				ALIGN ALITO	Radio De		Frequency	
10 dB/div	Ref Offset 1 Ref 30.00												
20.0 10.0				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							enter Fre		
10.0	1							h					
40.0	www			_				ha					
60.0													
Center 710 #Res BW				#VE	3W 240 ki	Hz			n 7.5 MHz 1.333 ms		CF Step 750.000 kH		
Occup	ied Bandv				Total Po	ower	29.9	dBm		Auto	Ma		
-			08 MH	79							req Offse		
	it Freq Erro ndwidth	or	5.800 kH 4.965 MH		OBW Po	ower		00 % 00 dB					
60							status						



Band17 10MHz QPSK RB50 0 CH23780

Keysight Spect	ttrum Analyser - Occupie			we out					-0-0-0-
Center Fre	eq 709.00000	0 MHz	Center Freq: 709.000000 MHz Trig: Free Run Avg/Hold: 10/10			4,16N AUTO	Radio St	d: None	Frequency
10 dB/div	Ref Offset 13 Ref 30.00 d								
.0g 20.0 50.0			Annalantara	mon	~~~~~				Center Free 709.000000 MH
0.00							1		
0.0	and f				-		6		
50.0	-							_	
enter 70 es BW 1			#VE	3W 510 P	Hz			an 15 MHz reep 1 ms	CF Step 1.500000 MH
Occup	ied Bandw	idth 8.9639 MH	łz	Total P	ower	31.1	dBm		Auto Mar Freg Offse
	nit Freq Error andwidth	14.891 k 9.792 M	10.00	OBW P	ower	1000	0.00 %		он
50						statu	5		

Band17_10MHz_QPSK_RB50_0_CH23790

Frequency	Radio Std: None Radio Device: BTS	d:>10/10	Freq: 710.000000 MHz ree Run AvgiHok : 30 dB	Center Trig: F	000 MHz	aq 710.000000	Center Fi
						Ref Offset 13.6 d Ref 30.00 dBr	10 dB/div
Center Free 710.000000 MH			a ha	m			20.0 10.0
	\backslash						10.0
	Jam	_		_		nand	40.0
		-		-			50 0 60 0
CF Step 1.500000 MH	Span 15 MHz Sweep 1 ms		/BW 510 kHz	#\			Center 7 Res BW
Auto Mar Freq Offse	dBm	30.9	Total Power	MHz	width 8.9542 M	ied Bandwid 8.	Occup
0 H	.00 %	99	OBW Power	29 kHz	or 9.62	it Freq Error	Transr
	00 dB	-26.	x dB	55 MHz	9.755	ndwidth	x dB B

Band17 10MHz QPSK RB50 0 CH23800

Keysight Spect	trum Analyser - Occupied BV	V ^C	11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		Print March		-0-0-0		
enter Fre	eq 711.000000 I	Trig:	Strike anti Center Freq: 711.00000 MHz Aug Mold: 10/10 Trig: Freq: 711.00000 MHz Avg Mold: 10/10 #Atten: 30 dB Radio Device: BTS				Frequency		
0 dB/div	Ref Offset 13.6 dl Ref 30.00 dBn								
09 20.0 10.0				homen			Center Free 711.000000 MH		
0.0					1				
0.0	mmt								
enter 71	1 MHz				Span	15 MHz			
es BW 1	50 kHz		WBW 510 kHz		Swee	ep 1 ms	CF Ste 1.500000 MH Auto Ma		
Occup	ied Bandwidt 8.	h 9438 MHz	Total Power	31.0	31.0 dBm 99.00 % -26.00 dB		1.0 dBm		FreqOffse
	hit Freq Error	16.508 kHz	OBW Power				-	он	

Band17 10MHz 16QAM RB16 0 CH23780

Keysight Spect	ours Analyzer - Occupied B	W		100 March 100 Aug	ana an ana ana ana		
Center Freq 709.000000 MHz			Strift 2011 Center Freq: 709.00 Trig: Free Run #Atten: 30 dB	Radio Std: Radio Dev	100 C	Frequency	
Ref Offset 13.5 dB 10 dB/div Ref 30.00 dBm							
20.0 50.0	- m	munnen					Center Free 709.000000 MH
-10.0	mant	3	have view	terman mar	~~~~		
40.0							
Res BW 150 kHz Style Streep 1 ms							CF Step 1.500000 MH
Occup	ied Bandwid				30.0 dBm		Auto Mar
	and the second second second	0425 MH	S. Andrew				Freq Offse
Transmit Freq Error x dB Bandwidth		-3.0287 MH 3.686 MH		Power	99.00 % -26.00 dB		
150					status		

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