

### Report No.: ER/2021/20010 Page: 1 of 465

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant:	ASUSTeK COMPUTER INC.
	1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
Product Name:	ASUS Phone (Mobile Phone)
Brand Name:	ASUS
Model No.:	ASUS_1006D
Model Difference:	N/A
Report Number:	ER/2021/20010
FCC ID	MSQI006D
IC:	3568A-1006D
FCC Rule Part:	2 , 22H & 24E & 27 C & 90S
ISED Rule:	RSS-Gen, 130, 132, 133, 139, 195, 199
Issue Date:	April 14, 2021
Date of Test:	January 26, 2021 - April 9, 2021
Date of EUT Received:	January 26, 2021

### 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 C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

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

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Approved By:

Blue Yang / Asst. Manager

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										
ER/2021/20010	Rev.00	Original.	April 14, 2021	Karen Huang						

Note:

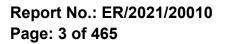
Antenna information is provided by the applicant, test results of this report are ap-1、 plicable to the sample EUT received.

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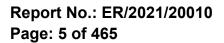
#### **GENERAL PRODUCT INFORMATION** 1

#### 1.1 **Product Description**

General:

Product Name:	ASUS Phone (Mobile Phone)
Brand Name:	ASUS
Model No.:	ASUS_1006D
Model Difference:	N/A
Hardware Version:	V4
Software Version:	Android 11
Power Supply:	3.87Vdc from Rechargeable Li-Polymer Battery Pack or 5 / 9 / 12 / 15 / 20Vdc from AC/DC adapter
IMEI:	004400152020000

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#### 1.2 **Operation Frequency Range**

Operating Frequency (MHz)			Operating Freq	uency (MHz)
GSM/GPRS/EDGE 850	824.2 - 848.8		WCDMA / HSPA+ Band II	1852.4 - 1907.6
GSM/GPRS/EDGE 1900	1850.2 - 1909.8		WCDMA / HSPA+ Band IV	1712.4 - 1752.6
			WCDMA / HSPA+ Band V	826.4 - 846.6

LTE Band 2					LTE Band	14	
BW (MHz)	Operation Frequency (MHz)			BW (MHz)	Operation F	requ	uency (MHz)
1.4	1850.7	-	1909.3	1.4	1710.7	-	1754.3
3	1851.5	-	1908.5	3	1711.5	-	1753.5
5	1852.5	-	1907.5	5	1712.5	-	1752.5
10	1855.0	-	1905.0	10	1715.0	-	1750.0
15	1857.5	-	1902.5	15	1717.5	-	1747.5
20	1860.0	-	1900.0	20	1720.0	-	1745.0
	LTE Band	15			LTE Band	17	
BW (MHz)	Operation F	requ	iency (MHz)	BW (MHz)	Operation F	requ	uency (MHz)
1.4	824.7	-	848.3	5	2502.5	-	2567.5
3	825.5	-	847.5	10	2505.0	-	2565.0
5	826.5	-	846.5	15	2507.5	-	2562.5
10	829.0	-	844.0	20	2510.0	-	2560.0
	LTE Band	12					
BW (MHz)	Operation F	requ	iency (MHz)				
1.4	699.7	-	715.3		LTE Band	17	
3	700.5	-	714.5	BW (MHz)	Operation I	req	uency (MHz)
5	701.5	-	713.5	5	706.5	-	713.5
10	704.0	-	711.0	10	709.0	-	711.0
	LTE Band	-					
BW (MHz)	Operation F	Freq	uency (MHz)		LTE Band	26	
1.4	1850.7	-	1914.3	BW (MHz)	1	req	uency (MHz)
3	1851.5	-	1913.5	1.4	824.7	-	848.3
5	1852.5	-	1912.5	3	825.5	-	847.5
10	1855.0	-	1910.0	5	826.5	-	846.5
15	1857.5	-	1907.5	10	829.0	-	844.0
20	1860.0	-	1905.0	15	831.5	-	841.5

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LTE Band 26 Part 90								
BW (MHz)	Operation I	Operation Frequency (MHz)						
1.4	814.7	-	823.3					
3	815.5	-	822.5					
5	816.5	-	821.5					
10		819.	0					
	LTE Band	38						
BW (MHz)	Operation F	requ	uency (MHz)					
5	2572.5	-	2617.5					
10	2575.0	-	2615.0					
15	2577.5	-	2612.5					
20	2580.0	-	2610.0					
	LTE Band	66						
BW (MHz)	Operation F	requ	uency (MHz)					
1.4	1710.7	-	1779.3					
3	1711.5	-	1778.5					
5	1712.5	-	1777.5					
10	1715.0	-	1775.0					
15	1717.5	-	1772.5					
20	1720.0	-	1770.0					

LTE Band 30								
BW (MHz)	Operation	Freq	uency (MHz)					
5	2307.5	-	2312.5					
10		2310	).0					
LTE Band 41								
BW (MHz)	Operation F	requ	uency (MHz)					
5	2498.5	-	2687.5					
10	2501.0	-	2685.0					
15	2503.5	2503.5 - 2682.5						
20	2506.0	-	2680.0					

LTE Band 71								
BW (MHz)	Operation Frequency (MHz)							
5	665.5	-	695.5					
10	688.0	-	693.0					
15	670.5	-	690.5					
20	673.0	-	688.0					

Note: Operation frequency 814~824MHz is diabled in Canada.

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#### 1.3 Antenna Designation

Antenna Type	Antenna Model No.					
PIFA	Ant1					
	Ant2					
	Ant3					
Ant4						
Note: The EUT equipped with multiple antennas,						

however, transmission of 4G LTE bands are available by the above antenna model numbers.

Modulation	Frequency (MHz)		F	Peak Antenr	na Gain (dB	ii)	
		(IVII	12)	Ant1	Ant2	Ant3	Ant4
GSM / GPRS / EDGE 1900 WCDMA / HSPA Band II	1850	~	1910	-	0.36	-	-
WCDMA / HSPA Band IV	1710	~	1755	-	-1.24	-	-
GSM / GPRS / EDGE 850 WCDMA / HSPA Band V	824	~	849	-5.70	-	-5.80	-
LTE-Band 2	1850	~	1910	-	0.36	-	-
LTE-Band 4	1710	~	1755	-	-1.24	-	-
LTE-Band 5	824	~	849	-5.70	-	-5.80	-
LTE-Band 7	2500	~	2570	-3.60	0.03	-4.30	-2.21
LTE-Band 12	699	~	716	-3.90	-	-6.10	-
LTE-Band 17	704	~	716	-4.40	-	-7.20	-
LTE-Band 25	1850	~	1915	-	0.36	-	-
LTE-Band 26	824	~	849	-5.70	-	-5.80	-
LTE-Band 26 Part 90	814	~	824	-7.20	-	-5.80	-
LTE-Band 30	2305	~	2315	-	-1.61	-	-
LTE-Band 38	2570	~	2620	-	-0.79	-	-
LTE-Band 41	2496	~	2690	-	0.03	-	-
LTE-Band 66	1710	~	1780	-	-0.09	-	-
LTE-Band 71	663	~	698	-2.80	-	-5.60	-

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

	ERP / EIR	P (dBm)	W	99%	Type of Emission
GSM 850	25.23	ERP	0.333	0.2463	246KGXW
GPRS 850	25.30	ERP	0.339	0.2490	249KGXW
EDGE 850	19.41	ERP	0.087	0.2483	248KG7W
GSM 1900	29.80	EIRP	0.955	0.2457	246KGXW
GPRS 1900	29.63	EIRP	0.918	0.2445	244KGXW
EDGE 1900	26.17	EIRP	0.414	0.2460	246KG7W
	ERP / EIR	P (dBm)	W	99%	Type of Emission
WCDMA Band II	23.45	EIRP	0.221	4.1412	4M14F9W
HSDPA Band II	22.36	EIRP	0.172	4.1393	4M14F9W
HSUPA Band II	22.45	EIRP	0.176	4.1443	4M14F9W
WCDMA Band IV	22.23	EIRP	0.167	4.1428	4M14F9W
HSDPA Band IV	21.18	EIRP	0.131	4.1464	4M15F9W
HSUPA Band IV	21.20	EIRP	0.132	4.1445	4M14F9W
WCDMA Band V	16.04	ERP	0.040	4.1571	4M16F9W
HSDPA Band V	14.95	ERP	0.031	4.1536	4M15F9W
HSUPA Band V	14.99	ERP	0.032	4.1549	4M15F9W

LTE Band	BW	Modulation	ERP / EIRI	<sup>D</sup> (dBm)	(W)	99%	Type of Emission	LT E Band	BW	Modulation	ERP / EIR	P (dBm)	(W)	99%	Type of Emission
Dunu		QPSK	22.65	EIRP	0.184	1.0864	1M09G7D			QPSK	21.18	EIRP	0.131	1.0852	1M09G7D
2	1.4	16QAM	21.69	EIRP	0.148	1.0857	1M09D7W	4	1.4	16QAM	20.21	EIRP	0.105	1.0865	1M09D7W
		64QAM	20.69	EIRP	0.117	1.0857	1M09D7W			64QAM	19.23	EIRP	0.084	1.1001	1M10D7W
		QPSK	22.74	EIRP	0.188	2.6873	2M69G7D			QPSK	21.24	EIRP	0.133	2.6839	2M68G7D
2	3	16QAM	21.64	EIRP	0.146	2.6882	2M69D7W	4	3	16QAM	20.25	EIRP	0.106	2.6915	2M69D7W
		64QAM	20.64	EIRP	0.116	2.6908	2M69D7W			64QAM	19.23	EIRP	0.084	2.6900	2M69D7W
		QPSK	22.75	EIRP	0.188	4.4774	4M48G7D			QPSK	21.24	EIRP	0.133	4.4756	4M48G7D
2	5	16QAM	21.68	EIRP	0.147	4.4826	4M48D7W	4	5	16QAM	20.18	EIRP	0.104	4.4777	4M48D7W
		64QAM	20.71	EIRP	0.118	4.4883	4M49D7W			64QAM	19.23	EIRP	0.084	4.4946	4M49D7W
		QPSK	22.70	EIRP	0.186	8.9646	8M96G7D			QPSK	21.23	EIRP	0.133	8.9645	8M96G7D
2	10	16QAM	21.74	EIRP	0.149	8.9360	8M94D7W	4	10	16QAM	20.20	EIRP	0.105	8.9379	8M94D7W
		64QAM	20.71	EIRP	0.118	8.9526	8M95D7W			64QAM	19.18	EIRP	0.083	8.9373	8M94D7W
		QPSK	22.75	EIRP	0.188	13.437	13M4G7D			QPSK	21.21	EIRP	0.132	13.6010	13M6G7D
2	15	16QAM	21.70	EIRP	0.148	13.428	13M4D7W	4	15	16QAM	20.19	EIRP	0.104	13.4350	13M4D7W
		64QAM	20.70	EIRP	0.117	13.418	13M4D7W			64QAM	19.24	EIRP	0.084	13.4110	13M4D7W
		QPSK	22.78	EIRP	0.190	17.895	17M9G7D			QPSK	21.27	EIRP	0.134	17.9090	17M9G7D
2	20	16QAM	21.75	EIRP	0.150	17.911	17M9D7W	4	20	16QAM	20.12	EIRP	0.103	18.0760	18M1D7W
		64QAM	20.71	EIRP	0.118	17.869	17M9D7W			64QAM	19.22	EIRP	0.084	17.8840	17M9D7W

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LTE							Type of
Band	BW	Modulation	ERP / EIR	P (dBm)	(W)	99%	Emission
Bana		QPSK	15.32	ERP	0.034	1.0853	1M09G7D
5	1.4	16QAM	14.28	ERP	0.027	1.0859	1M09D7W
		64QAM	13.32	ERP	0.021	1.0847	1M08D7W
		QPSK	15.26	ERP	0.034	2.6913	2M69G7D
5	3	16QAM	14.31	ERP	0.027	2.6900	2M69D7W
-	-	64QAM	13.24	ERP	0.021	2.6939	2M69D7W
		QPSK	15.26	ERP	0.034	4.4830	4M48G7D
5	5	16QAM	14.26	ERP	0.027	4.4822	4M48D7W
	-	64QAM	13.24	ERP	0.021	4.4957	4M50D7W
		QPSK	15.35	ERP	0.034	8.9649	8M96G7D
5	10	16QAM	14.31	ERP	0.027	8.9388	8M94D7W
		64QAM	13.33	ERP	0.022	8.9424	8M94D7W
LTE							Type of
Band	BW	Modulation	ERP / EIRI	P (dBm)	(W)	99%	Emission
		QPSK	22.60	EIRP	0.182	4.4801	4M48G7D
7	5	16QAM	21.60	EIRP	0.145	4.4790	4M48D7W
		64QAM	20.60	EIRP	0.115	4.4894	4M49D7W
		QPSK	22.65	EIRP	0.184	8.9526	8M95G7D
7	10	16QAM	21.58	EIRP	0.144	8.9310	8M93D7W
		64QAM	20.59	EIRP	0.115	8.9551	8M96D7W
		QPSK	22.62	EIRP	0.183	13.4600	13M5G7D
7	15	16QAM	21.55	EIRP	0.143	13.5430	13M5D7W
		64QAM	20.55	EIRP	0.114	13.4120	13M4D7W
		QPSK	22.80	EIRP	0.191	17.8800	17M9G7D
7	20	16QAM	21.65	EIRP	0.146	17.9190	17M9D7W
		64QAM	20.60	EIRP	0.115	18.0600	18M1D7W
LTE	DW				0.4.0	000/	Type of
Band	BW	Modulation	ERP / EIRI	P (aBm)	(W)	99%	Emission
		QPSK	17.10	ERP	0.051	1.0852	1M09G7D
12	1.4	16QAM	16.16	ERP	0.041	1.0851	1M09D7W
		64QAM	15.11	ERP	0.032	1.0847	1M08D7W
		QPSK	17.16	ERP	0.052	2.6878	2M69G7D
12	3	16QAM	16.04	ERP	0.040	2.6916	2M69D7W
		64QAM	15.09	ERP	0.032	2.6943	2M69D7W
		QPSK	17.15	ERP	0.052	4.4756	4M48G7D
12	5	16QAM	16.10	ERP	0.041	4.4815	4M48D7W
		64QAM	15.11	ERP	0.032	4.4845	4M48D7W
		QPSK	17.18	ERP	0.052	8.9697	8M97G7D
12	10	16QAM	16.08	ERP	0.041	8.9292	8M93D7W
		64QAM	15.07	ERP	0.032	8.9414	8M94D7W
LTE	BW	Modulation	ERP / EIRI	P (dBm)	(W)	99%	Type of
Band							Emission
47	-	QPSK	16.54	ERP	0.045	4.4796	4M48G7D
17	5	16QAM	15.57	ERP	0.036	4.4819	4M48D7W
		64QAM	14.53	ERP	0.028	4.4882	4M49D7W
47	4.5	QPSK	16.62	ERP	0.046	8.9439	8M94G7D
17	10	16QAM	15.54	ERP	0.036	8.9312	8M93D7W
		64QAM	14.58	ERP	0.029	8.9391	8M94D7W

LT E Band	BW	Modulation	ERP / EIR	P (dBm)	(W)	99%	Type of Emission
Dallu		QPSK	22.82	EIRP	0.191	1.0858	1M09G7D
25	1.4	16QAM	22.02	EIRP	0.150	1.0852	1M0907D 1M09D7W
23	1.4	64QAM	20.73	EIRP	0.130	1.0840	1M09D7W
		QPSK	20.73	EIRP	0.118	2.6880	2M69G7D
25	3	16QAM	22.77	EIRP	0.189	2.6886	2M69D7W
20	5	64QAM	20.70	EIRP	0.149	2.6917	2M69D7W
		QPSK	20.70	EIRP	0.117		4M48G7D
25	5		-			4.4802	
25	С	16QAM	21.79	EIRP	0.151	4.4796	4M48D7W
		64QAM	20.75	EIRP	0.119	4.4986	4M50D7W
05	10	QPSK	22.75	EIRP	0.188	8.9684	8M97G7D
25	10	16QAM	21.69	EIRP	0.148	8.9316	8M93D7W
		64QAM	20.78	EIRP	0.120	8.9476	8M95D7W
		QPSK	22.74	EIRP	0.188	13.4480	13M4G7D
25	15	16QAM	21.79	EIRP	0.151	13.4300	13M4D7W
		64QAM	20.75	EIRP	0.119	13.4190	13M4D7W
		QPSK	22.82	EIRP	0.191	17.8770	17M9G7D
25	20	16QAM	21.80	EIRP	0.151	17.9010	17M9D7W
		64QAM	20.78	EIRP	0.120	17.9100	17M9D7W
LTE Band	BW	Modulation	ERP / EIR	P (dBm)	(W)	99%	Type of Emission
Danu		QPSK	15.43	ERP	0.035	1.0855	1M09G7D
26	1.4	16QAM	14.72	ERP	0.030	1.0853	1M09D7W
20		64QAM	13.51	ERP	0.030	1.0833	1M09D7W
		QPSK	15.49	ERP	0.022	2.6898	2M69G7D
26	3	16QAM	14.98	ERP	0.031	2.6909	2M69D7W
20	0	64QAM	13.75	ERP	0.024	2.6917	2M69D7W
		QPSK	15.48	ERP	0.024	4.4805	4M48G7D
26	5	16QAM	14.84	ERP	0.033	4.4869	4M49D7W
20	5	64QAM	13.60	ERP	0.030	4.4903	4M49D7W
		QPSK	15.45	ERP	0.023	4.4903 8.9709	410149D700 8M97G7D
26	10	16QAM	15.45	ERP	0.035	8.9449	8M94D7W
20	10	64QAM	14.69	ERP	0.031	8.9449	8M95D7W
			13.59	ERP			
24	15	QPSK			0.035	13.4410	13M4G7D
26	15	16QAM	14.73	ERP	0.030	13.4200	13M4D7W
		64QAM	13.56	ERP	0.023	13.4250	13M4D7W

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LTE			•				Type of
Band	BW	Modulation	Conducted	d (dBm)	(W)	99%	Emission
		QPSK	23.35	ERP	0.216	1.0849	1M08G7D
26	1.4	16QAM	22.75	ERP	0.188	1.0864	1M09D7W
Part 90		64QAM	21.69	ERP	0.148	1.0837	1M08D7W
		QPSK	20.65	ERP	0.116	2.6895	2M69G7D
26	3	16QAM	22.83	ERP	0.192	2.6916	2M69D7W
Part 90		64QAM	21.62	ERP	0.145	2.6914	2M69D7W
		QPSK	23.45	ERP	0.221	4.4780	4M48G7D
26 Part 90	5	16QAM	22.77	ERP	0.189	4.4842	4M48D7W
Part 90		64QAM	21.61	ERP	0.145	4.4895	4M49D7W
		QPSK	23.44	ERP	0.221	8.9654	8M97G7D
26 Part 90	10	16QAM	22.77	ERP	0.189	8.9312	8M93D7W
Part 90		64QAM	21.41	ERP	0.138	8.9470	8M95D7W
LTE	DW		ERP / I	EIRP	040	000/	Type of
Band	BW	Modulation	(dBm/5l	MHz)	(W)	99%	Emission
		QPSK	20.65	EIRP	0.116	4.4757	4M48G7D
30	5	16QAM	19.64	EIRP	0.092	4.4822	4M48D7W
		64QAM	18.64	EIRP	0.073	4.4946	4M49D7W
		QPSK	20.68	EIRP	0.117	8.9527	8M95G7D
30	10	16QAM	19.62	EIRP	0.092	8.9231	8M92D7W
		64QAM	18.64	EIRP	0.073	8.9387	8M94D7W
LTE Band	BW	Modulation	ERP / EIRI	P (dBm)	(W)	99%	Type of Emission
		QPSK	22.13	EIRP	0.163	4.4790	4M48G7D
38	5	16QAM	21.13	EIRP	0.130	4.4839	4M48D7W
		64QAM	20.12	EIRP	0.103	4.4811	4M48D7W
		QPSK	22.12	EIRP	0.163	8.9712	8M97G7D
38	10	16QAM	21.13	EIRP	0.130	8.9427	8M94D7W
		64QAM	20.09	EIRP	0.102	8.9571	8M96D7W
		QPSK	22.14	EIRP	0.164	13.4430	13M4G7D
38	15	16QAM	21.08	EIRP	0.128	13.4340	13M4D7W
		64QAM	20.13	EIRP	0.103	13.4100	13M4D7W
		QPSK	22.16	EIRP	0.164	17.8770	17M9G7D
38	20	16QAM	21.13	EIRP	0.130	17.9070	17M9D7W
		64QAM	20.13	EIRP	0.103	17.8810	17M9D7W
LTE	BW	Modulation	ERP / EIRI	P (dBm)	(W)	99%	Type of
Band		OPSK				4 4010	Emission
	-		22.85	EIRP	0.193	4.4812	4M48G7D
41	5	16QAM	21.87	EIRP	0.154	4.4815	4M48D7W
		64QAM	20.82	EIRP	0.121	4.4847	4M48D7W
41	10	QPSK 160AM	22.85	EIRP	0.193	8.9760	8M98G7D
41	10	16QAM	21.79	EIRP	0.151	8.9529	8M95D7W
		64QAM	20.83	EIRP	0.121	8.9648	8M96D7W
41	15	QPSK 160AM	22.87	EIRP	0.194	13.4690	13M5G7D
41	15	16QAM	21.81	EIRP	0.152	13.4560	13M5D7W
		64QAM	20.88	EIRP	0.122	13.4160	13M4D7W
11	20	QPSK 160AM	22.91	EIRP	0.195	17.8860	17M9G7D
41	20	16QAM	21.85	EIRP	0.153	17.8860	17M9D7W
		64QAM	20.84	EIRP	0.121	17.8690	17M9D7W

LTE Band	BW	Modulation	ERP / EIR	P (dBm)	(W)	99%	Type of Emission
Dallu		QPSK	22.14	EIRP	0.164	1.0866	1M09G7D
66	1.4	16QAM	22.14	EIRP	0.104	1.0864	1M09G7D 1M09D7W
00	1.4	64QAM	20.11	EIRP	0.130	1.0804	1009D7W
		QPSK	20.11	EIRP	0.163	2.6873	2M69G7D
66	3	16QAM	22.12	EIRP	0.103	2.6918	2M69D7W
00	3	64QAM	20.05	EIRP	0.129	2.6918	210109D7W 2M69D7W
		04QAIVI QPSK	20.05	EIRP	0.101	4.4785	4M48G7D
	-						
66	5	16QAM	21.14	EIRP	0.130	4.4802	4M48D7W
		64QAM	20.09	EIRP	0.102	4.4902	4M49D7W
		QPSK	22.04	EIRP	0.160	8.9531	8M95G7D
66	10	16QAM	21.08	EIRP	0.128	8.9266	8M93D7W
		64QAM	20.07	EIRP	0.102	8.9394	8M94D7W
		QPSK	22.10	EIRP	0.162	13.4410	13M4G7D
66	15	16QAM	21.12	EIRP	0.129	13.4320	13M4D7W
		64QAM	20.10	EIRP	0.102	13.4090	13M4D7W
		QPSK	22.16	EIRP	0.164	17.8840	17M9G7D
66	20	16QAM	21.05	EIRP	0.127	17.9010	17M9D7W
		64QAM	20.10	EIRP	0.102	17.8610	17M9D7W
LTE	BW	Modulation	ERP / EIR	D (dBm)	(W)	99%	Type of
Band	DVV	WOULDUI		r (ubiii)	(VV)	9970	Emission
		QPSK	22.80	EIRP	0.191	4.4855	4M49G7D
71	5	16QAM	21.86	EIRP	0.153	4.4849	4M48D7W
		64QAM	20.83	EIRP	0.121	4.4922	4M49D7W
		QPSK	22.83	EIRP	0.192	8.9621	8M96G7D
71	10	16QAM	21.88	EIRP	0.154	8.9329	8M93D7W
		64QAM	20.85	EIRP	0.122	8.9434	8M94D7W
		QPSK	22.85	EIRP	0.193	13.4370	13M4G7D
71	15	16QAM	21.89	EIRP	0.155	13.4510	13M5D7W
		64QAM	20.83	EIRP	0.121	13.4360	13M4D7W
		QPSK	22.91	EIRP	0.195	17.9140	17M9G7D
71	20	16QAM	21.86	EIRP	0.153	17.8870	17M9D7W
		64QAM	20.82	EIRP	0.121	17.9000	17M9D7W
L							

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#### 1.5 **Test Methodology of Applied Standards**

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90 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-195 Issue 2 Apr. 24, 2014

ISED RSS-199 Issue 3 Dec. 2016,

ISED RSS-139 Issue 3 July 16, 2015

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

KDB412172 D01 Determining ERP and EIRP v01r01

TS 151 010-1 is used to set, and measure the output power.

#### 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.		Conduction A		
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No.2, Keji 1st Rd., Guishan District,	Conducted A		
	Taoyuan City, Taiwan 333	Conducted B	TW0028	
	ladydan Olty, Talwan 555	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		
	ame is remarked on the equipmen		-	s an indica-
tion where	measurements occurred in specif	fic test site and add	dress.	

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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\*9m\*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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## 2 SYSTEM TEST CONFIGURATION

### 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.

Frequency	RF Cable loss (dB)	Attenuation (dB)	Offset (dB)	
LB(1GHz below)	4.44	10	14.44	
MB(1GHz - 2GHz)	4.68	10	14.68	
MB(2GHz - 3GHz)	5.2	10	15.2	

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#### 2.5 **Final Amplifier Voltage and Current Information:**

	T	
Test Mode	DC voltage (V)	DC current (mA)
GSM 850		636
GSM 1900	j	548
WCDMA B2	] [	612
WCDMA B4	] [	592
WCDMA B5	] [	579
LTE Band 2	] [	659
LTE Band 4	] [	588
LTE Band 5	j	633
LTE Band 7	j	603
LTE Band 12	3.87	667
LTE Band 17	j	572
LTE Band 25	j	641
LTE Band 26	] [	653
LTE Band 26 (Part 90S)	j	634
LTE Band 30	j	611
LTE Band 38	j	593
LTE Band 41	j	589
LTE Band 66	j	622
LTE Band 71		605

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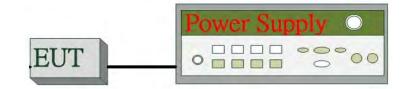
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### 2.6 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Condcuted)



### Fig. 2-2 Configuration of Tested System (Radiated)



### Table 2-1 Equipment Used in

ltem	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord	
1.	Radio Communication Analyer	Anritsu	MT8815A	6200429620	shielded	Un-shielded	
2.	Radio Communication Analyer	Anritsu	MT8821C	6261786084	shielded	Un-shielded	
3.	DC Power Supply	Agilent	E3640A	MY40005907	N/A	N/A	

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#### 3 SUMMARY OF TEST RESULTS

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(a)(3)(i) §27.50(h)(2) §27.50(d)(4) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.635	RSS-130 §4.6 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.5 RSS-195 §5.5 RSS-199 §4.4	ERP/ EIRP measurement	Compliant
§2.1049(h)	RSS-GEN §6.7	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §22.917(a)(b) §24.238(a) §27.53(a)(4) §27.53(g) §27.53(h) §27.53(m) §90.691	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-195 §5.6 RSS-199 §4.5	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(a) §27.53(g) §27.53(h) §27.53(m)(2) §90.691	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-195 §5.6 RSS-199 §4.5	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 RSS-195 §5.5 RSS-199 §4.4	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	RSS-130 §4.5RSS-132 §5.3RSS-133 §6.3RSS-139 §6.5RSS-195 §5.4RSS-199 §4.3	Frequency Stability	Compliant

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#### **DESCRIPTION OF TEST MODES** 4

#### 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 mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	PLAN					lable nnas		Worst Case Antenna			
DAND	Н	E1	E2	Ant1	Ant2	Ant3	Ant4	Ant1	Ant2	Ant3	Ant4
GSM/GPRS/EDGE 850	V			V		V		V			
GSM/GPRS/EDGE 1900	V				V				V		
WCDMA/HSPA Band II	V				V				V		
WCDMA/HSPA Band IV	V				V				V		
WCDMA/HSPA Band V	V			V		V		V			
LTE Band 2	V				V				V		
LTE Band 4	V				V				V		
LTE Band 5	V			V		V		V			
LTE Band 7	V			V	V	V	V		V		
LTE Band 12	V			V		V		V			
LTE Band 17	V			V		V		V			
LTE Band 25	V				V				V		
LTE Band 26	V			V		V		V			
LTE Band 26 (Part 90S)	V			V		V		V			
LTE Band 30	V				V				V		
LTE Bnad 38	V				V				V		
LTE Band 41	V				V				V		
LTE Band 66	V				V				V		
LTE Band 71	V			V		V		V			

EUT	Serial Number	Note
ASUS Phone (Mobile Phone)	M1AIB7N00062C68	

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#### 4.2 **Measurement Configuration**

Test Items	GSM	Test	t Char	nnel
Test tients	Bands	L	М	Н
ERP	850	V	V	V
EIRP	1900	V	V	٧
FREQUENCY STABILITY	850	-	V	-
TREQUENCE STABLETT	1900	-	V	-
OCCUPIED BANDWIDTH	850	V	V	٧
OCCOPIED BANDWIDTH	1900	V	V	٧
PEAK TO AVERAGE RATIO	850	V	V	V
PEAK TO AVERAGE RATIO	1900	٧	V	V
BAND EDGE	850	V	-	٧
BAND EDGE	1900	٧	-	V
CONDCUDETED EMISSION	850	V	V	V
CONDCODE TED EMISSION	1900	٧	V	V
RADIATED EMISSION	850	V	V	V
	1900	V	V	V

Test Items	WCDMA/HSPA	Test	t Char	nnel
rest items	Bands	L	М	Н
ERP	Band V	V	V	٧
EIRP	Bnad II	V	V	٧
EIRF	Band IV	V	V	V
	Bnad II	-	V	-
FREQUENCY STABILITY	Band IV	-	V	-
	Band V	-	V	-
	Bnad II	V	V	٧
OCCUPIED BANDWIDTH	Band IV	V	V	٧
	Band V	V	V	٧
	Bnad II	V	V	V
PEAK TO AVERAGE RATIO	Band IV	V	V	V
	Band V	V	V	V
	Bnad II	V	-	V
BAND EDGE	Band IV	V	-	V
	Band V	V	-	٧
	Bnad II	V	V	V
CONDCUDETED EMISSION	Band IV	V	V	V
	Band V	V	V	V
	Bnad II	V	V	V
RADIATED EMISSION	Band IV	V	V	V
	Band V	V	V	V

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Test Items	Band	Tes	st Chan	nel		E	Bandwid	th (MHz	)			Modu	lation			RB #	
Test ttems	Band	L	Μ	Н	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
	2	V	V	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	V	V
	5	V	V	V	V	V	V	V	-	-	V	V	V	V	V	V	V
	7	V	V	V	-	-	V	V	V	۷	V	V	V	V	V	V	V
	12	V	V	V	V	V	V	V	-	-	V	V	V	V	V	V	V
	17	V	V	V	-	-	V	V	-	-	V	V	V	V	V	V	V
Max. Output	25	V	V	V	V	V	V	V	۷	۷	V	V	V	V	V	V	V
Power	26	V	V	V	V	V	V	V	V	-	V	V	V	V	V	V	V
	26 P90	V	V	V	V	V	V	V	-	-	V	V	V	V	V	V	V
	30	V	V	V	-	-	V	V	-	-	V	V	V	V	V	V	V
	38	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V	V
	41	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V	V
	66	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	71	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V	V
	2	-	V	-				V			V	-	-	-	-	-	V
	4	-	V	-				V			V	-	-	-	-	-	V
	5	-	V	-				V	-	-	V	-	-	-	-	-	V
	7	-	V	-	-	-		V			V	-	-	-	-	-	V
	12	-	V	-				V	-	-	V	-	-	-	-	-	V
	17	-	V	-	-	-		V	-	-	V	-	-	-	-	-	V
Freqency	25	-	V	-				V			V	-	-	-	-	-	V
Stability	26	-	V	-				V		-	V	-	-	-	-	-	V
	26 P90	-	V	-				V	-	-	V	-	-	-	-	-	V
	30	-	V	-	-	-		V	-	-	V	-	-	-	-	-	V
	38	-	V	-	-	-		V			V	-	-	-	-	-	V
	41	-	V	-	-	-		V			V	-	-	-	-	-	V
	66	-	V	-				V			V	-	-	-	-	-	V
	71	-	V	-	-	-		V			V	-	-	-	-	-	V

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Test Items	Band	Tes	st Chan	nel		E	Bandwid	th (MHz	)			Modu	lation			RB #	
Test tiems	Band	L	Μ	Н	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	64QAM	1	Half	Full
	2	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	V
	4	٧	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
	7	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
26dB and	17	V	V	V	-	-	V	V	-	-	V	V	V	V	-	-	V
2008 and 99%	25	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	V
Bandwidth	26	۷	V	V	V	V	V	V	V	-	V	V	V	V	-	-	V
Danamatin	26 P90	۷	V	V	V	V	V	V	-	-	V	V	V	V	-	-	V
	30	۷	V	V	-	-	V	V	-	-	V	V	V	V	-	-	V
	38	۷	V	V	-	-	V	V	V	V	V	V	V	V	-	-	V
	41	۷	V	V	-	-	V	V	V	V	V	V	V	V	-	-	V
	66	۷	V	V	V	V	V	V	V	V	V	V	V	V	-	-	V
	71	۷	V	V	-	-	V	V	V	V	V	V	V	V	-	-	V
	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
	7	V	V	V	-	-	V	V	V	V	-	-	-	V	-	-	V
	12	V	V	V	V	V	V	V	-	-	-	-	-	V	-	-	V
	17	V	V	V	-	-	V	V	-	-	-	-	-	V	-	-	V
Peak-to-Av	25	V	V	V	V	V	V	V	V	V	-	-	-	V	-	-	V
erage Ratio	26	V	V	V	V	V	V	V	V	-	-	-	-	V	-	-	V
	26 P90	V	V	V	V	V	V	V	-	-	-	-	-	V	-	-	V
	30	V	V	V	-	-	V	V	-	-	-	-	-	V	-	-	V
	38	V	V	V	-	-	V	V	V	V	-	-	-	V	-	-	V
	41	V	V	V	-	-	V	V	V	V	-	-	-	V	-	-	V
	66	V	V	V	V	V	V	V	V	V	-	-	-	V	-	-	V
	71	V	V	V	-	-	V	V	V	V	-	-	-	V	-	-	V

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Toot	Donal	Tes	st Chanı	nel		I	Bandwid	lth (MHz	)			Modu	lation			RB #	
Test Items	Band	L	Μ	Н	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	64QAM	1	Half	Full
	7	V	v	V	-	-	v	V	V	V	V	-	-	-	V	V	V
E	26 P90	V	V	V	V	V	v	V	-	-	V	-	-	-	V	V	V
Emission Mask	30	V	V	V	-	-	V	V	-	-	V	-	-	-	V	V	V
IVIASK	38	V	V	V	-	-	v	V	V	V	V	-	-	-	V	V	V
	41	V	v	V	-	-	v	v	V	V	V	-	-	-	V	V	V
	2	V	-	V	-	-	-	-	-	V	V	-	-	-	V	V	V
	4	V	-	V	-	-	-	-	-	V	V	-	-	-	V	V	V
	5	V	-	v	-	-	-	V	-	-	v	-	-	-	V	V	V
	12	V	-	v	-	-	-	V	-	-	v	-	-	-	V	V	V
Band Edge	17	V	-	V	-	-	-	V	-	-	V	-	-	-	V	V	V
0	25	V	-	v	V	-	-	-	-	V	v	-	-	-	V	v	v
	26	V	-	v	-	V	-	-	V	-	v	-	-	-	V	v	V
	66	V	-	V	-	-	-	-	-	V	v	-	-	-	V	V	V
	71	V	-	V	-	-	-	-	-	V	V	-	-	-	V	V	V
	2	V	V	V	-	-	-	-	-	V	V	-	-	-	V	-	-
	4	V	V	V	-	-	-	-	-	V	V	-	-	-	V	-	-
	5	V	v	v	-	-	-	V	-	-	v	-	-	-	V	-	-
	7	V	v	v	-	-	-	-	-	v	v	-	-	-	V	-	-
	12	V	V	v	-	-	-	V	-	-	v	-	-	-	V	-	-
Conducted	17	V	V	V	-	-	-	V	-	-	V	-	-	-	V	-	-
Emission	25	V	V	V	V	-	-	-	-	V	V	-	-	-	V	-	-
	26	V	V	V	-	V	-	-	-	-	V	-	-	-	V	-	-
	26 P90	V	V	V	-	-	V	-	-	-	V	-	-	-	V	-	-
	30	V	V	V	-	-	-	V	-	-	V	-	-	-	V	-	-
	38	V	V	V	-	-	-	-	-	V	V	-	-	-	V	-	-
	41	V	V	V	-	-	-	-	-	V	V	-	-	-	V	-	-
	66	V	V	V	-	-	-	-	-	V	V	-	-	-	V	-	-
	71	V	V	V	-	-	-	-	-	V	V	-	-	-	V	-	-
Test Items	Band		st Chani	-		-	Bandwid				0.5.5.	Modu		0.000		RB #	
		L	Μ	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
	2	V	V	V						V	V				V		
	4	V	V	V						V	V				V		
	5	V	V	V				V	-	-	V				V		
	7	V	V	V	-	-				V	V				V		
	12	V	V	V				V	-	-	V				V		
Radiated	17	V	V	V	-	-		V	-	-	V				V		
Emission	25	V	V	V	V						V					V	
LIIISSIUIT	26	V	V	V		V	, <i>.</i>			-	V				V	<u> </u>	
	26 P90	V	V	V			V		-	-	V				V		
	30 38	V V	V	V	-	-		V	-	- 	V V				V		
	30 41	V	V V	V V	-	-				V V	V V				V V		
	66	V	V V	V V	-	-				V	V				V		
	71	V	V	V	-	-				V	V				V		
	, ' i	v	v	v						v	v				v	1	()

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#### **MEASUREMENT UNCERTAINTY** 5

Test Items	Uncertainty
RF Power Output	+/- 1 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 3dB Horizontal Polarization =+/- 3dB
99% Occupied Bandwidth	+/- 1.54 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.69 dB
Peak to Average Ratio	+/- 1 dB
Frequency Stability vs. Temperature	+/- 1.54 Hz
Frequency Stability vs. Voltage	+/- 1.54 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	DC= +/- 1%, AC=+/- 1%

Radiated S	purio	us Emi	ssion N	leasurement Uncertainty
	+/-	2.64	dB	9kHz~30MHz: +-2.3dB
Polarization: Vertical	+/-	4.93	dB	30MHz - 1000MHz: +/- 3.37dB
Polarization. Vertical	+/-	4.81	dB	1GHz - 18GHz: +/- 4.04dB
	+/-	4.52	dB	18GHz - 40GHz: +/- 4.04dB
	+/-	2.64	dB	9kHz~30MHz: +-2.3dB
Polarization, Harizantal	+/-	4.45	dB	30MHz - 1000MHz: +/- 4.22dB
Polarization: Horizontal	+/-	4.81	dB	1GHz - 18GHz: +/- 4.08dB
	+/-	4.52	dB	18GHz - 40GHz: +/- 4.08dB

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

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### 6 MAXMUM OUTPUT POWER

### 6.1 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.

### 6.1.1 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 (a)

(3) for mobile and portable stations compliant with 3GPP LTE standards transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band are limited to 250 mW/ 5MHz EIRP but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

### FCC 27.50(c)

(10) Portable stations (hand-held devices) are limited to 3 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.

### FCC 27, 50(h)

(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

### FCC 90.635(b)

Mobile station is limited to 100W ERP

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<sup>(</sup>株計方分気切) し根容弱素(度力列気(人体の) 見) 「可可比検の) ほぼ 回 切入 うみ根 令本症 やなり 音 回 町 ゴ・ハ うず 切 後表 ・ 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, indemnification 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.



### RSS-130 §4.6

The e.r.p. shall not exceed 3 watts for mobile equipment, fixed subscriber equipment and portable equipment operating in the Band 617-652 and 663-698MHz.

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.

### RSS-195 §5.5

The e.i.r.p. of mobile or portable equipment transmitting in the band 2305-2315 MHz or the band 2350-2360 MHz, employing 3GPP LTE (Third Generation Part-nership Project Long Term Evolution) standards, shall not exceed 250 mW within any 5 MHz bandwidth. For other technologies, the e.i.r.p. shall not exceed 50 mW within any 1 MHz bandwidth.

### RSS-199 §4.4

For mobile subscriber equipment operating in the Band 2500-2690MHz, the e.i.r.p. shall not exceed 2 W.

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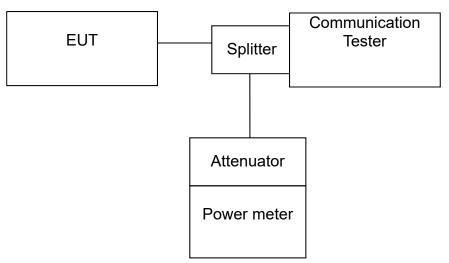
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#### 6.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

#### 6.3 **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. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices. (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and 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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# 6.4 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	<ul> <li>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);</li> </ul>
Ρτ	= transmitter output power, expressed in dBW, dBm, or PSD;
G⊤ Lc	<ul> <li>gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);</li> <li>signal attenuation in the connecting cable between the transmitter and antenna, in dB.</li> </ul>

### 6.5 Measurement Equipment Used

	Conducted	Emission Test	Site: Conducte	ed 4	
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY40005907	10/29/2020	10/28/2021
Radio Communication Analyer	Anritsu	MT8815A	6200429620	01/15/2021	01/14/2022
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
PXA Spectrum Ana- lyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Radio Communication Analyer	Anritsu	MT8821C	6261786084	01/20/2021	01/19/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412- 018	12/16/2020	12/15/2021

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#### 6.6 **GSM Measurement Results**

GSM/GPRS/EDGE (GMSK; 8-PSK) Result:

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
0014	824.2	128	32.56	-5.70	24.71	26.86	38.50	-13.79
GSM 850	836.6	190	33.08	-5.70	25.23	27.38	38.50	-13.27
000	848.8	251	32.92	-5.70	25.07	27.22	38.50	-13.43
0014	1850.2	512	29.27	0.36	27.48	29.63	33.00	-3.37
GSM 1900	1880.0	661	29.44	0.36	27.65	29.80	33.00	-3.20
1700	1909.8	810	29.17	0.36	27.38	29.53	33.00	-3.47
0000	824.2	128	32.71	-5.70	24.86	27.01	38.50	-13.64
GPRS 850	836.6	190	33.15	-5.70	25.30	27.45	38.50	-13.20
000	848.8	251	32.96	-5.70	25.11	27.26	38.50	-13.39
0000	1850.2	512	29.04	0.36	27.25	29.40	33.00	-3.60
GPRS 1900	1880.0	661	29.27	0.36	27.48	29.63	33.00	-3.37
1900	1909.8	810	28.96	0.36	27.17	29.32	33.00	-3.68
5005	824.2	128	27.02	-5.70	19.17	21.32	38.50	-19.33
EDGE 850	836.6	190	27.26	-5.70	19.41	21.56	38.50	-19.09
030	848.8	251	27.13	-5.70	19.28	21.43	38.50	-19.22
FDOF	1850.2	512	25.67	0.36	23.88	26.03	33.00	-6.97
EDGE 1900	1880.0	661	25.81	0.36	24.02	26.17	33.00	-6.83
1700	1909.8	810	25.79	0.36	24.00	26.15	33.00	-6.85

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EUT Mode	Frequency (MHz)	СН	Average Burst Power (1DN 1UP) Class 8 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)
CDDC	824.2	128	32.71	32.23
GPRS 850	836.6	190	33.15	32.84
000	848.8	251	32.96	32.70
GPRS	1850.2	512	29.04	29.20
1900	1880.0	661	29.27	29.41
1700	1909.8	810	28.96	29.14
EDGE	824.2	128	27.02	26.67
850	836.6	190	27.26	26.61
	848.8	251	27.13	26.56
	1850.2	512	25.67	25.61
EDGE 1900	1880.0	661	25.81	25.88
	1909.8	810	25.79	25.78

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#### 6.7 WCDMA & HSPA Measurement Results:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm. RMC 12.2kps is used for this testing.

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
	1852.4	9262	22.54	0.36	20.75	22.90	33.00	-10.10
WCDMA	1880.0	9400	22.73	0.36	20.94	23.09	33.00	-9.91
	1907.6	9538	23.09	0.36	21.30	23.45	33.00	-9.55
	1852.4	9262	21.45	0.36	19.66	21.81	33.00	-11.19
HSDPA	1880.0	9400	21.67	0.36	19.88	22.03	33.00	-10.97
	1907.6	9538	22.00	0.36	20.21	22.36	33.00	-10.64
	1852.4	9262	21.47	0.36	19.68	21.83	33.00	-11.17
HSUPA	1880.0	9400	21.65	0.36	19.86	22.01	33.00	-10.99
	1907.6	9538	22.09	0.36	20.30	22.45	33.00	-10.55

### WCDMA/HSUPA/HSDPA Band II Result:

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
	1712.4	1312	23.31	-1.24	19.92	22.07	30.00	-7.93
WCDMA	1732.6	1413	23.03	-1.24	19.64	21.79	30.00	-8.21
	1752.6	1513	23.47	-1.24	20.08	22.23	30.00	-7.77
	1712.4	1312	22.24	-1.24	18.85	21.00	30.00	-9.00
HSDPA	1732.6	1413	22.00	-1.24	18.61	20.76	30.00	-9.24
	1752.6	1513	22.42	-1.24	19.03	21.18	30.00	-8.82
	1712.4	1312	22.29	-1.24	18.90	21.05	30.00	-8.95
HSUPA	1732.6	1413	22.01	-1.24	18.62	20.77	30.00	-9.23
	1752.6	1513	22.44	-1.24	19.05	21.20	30.00	-8.80

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### WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
	826.4	4132	23.74	-5.70	15.89	18.04	38.50	-22.61
WCDMA	836.6	4183	23.89	-5.70	16.04	18.19	38.50	-22.46
	846.6	4233	23.68	-5.70	15.83	17.98	38.50	-22.67
	826.4	4132	22.65	-5.70	14.80	16.95	38.50	-23.70
HSDPA	836.6	4183	22.80	-5.70	14.95	17.10	38.50	-23.55
	846.6	4233	22.67	-5.70	14.82	16.97	38.50	-23.68
	826.4	4132	22.71	-5.70	14.86	17.01	38.50	-23.64
HSUPA	836.6	4183	22.84	-5.70	14.99	17.14	38.50	-23.51
	846.6	4233	22.61	-5.70	14.76	16.91	38.50	-23.74

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#### 6.7.1 HSPA (HSDPA & HSUPA) Release 6:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1. RMC 12.2kps is used for this testing.

#### 6.7.2 HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	βc	βd	β₀ ( <b>SF</b> )	β <sub>c</sub> /β <sub>d</sub>	βнs (Note1, Note 2)	<b>CM (dB)</b> (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

**Note:** The recommended HSDPA MPRs are implemented as per following sub-tests.

	Sub	Avg. Power (dBm)						
Mode	test	Channel						
		9262.00	9400.00	9538.00				
	1	21.45	21.67	22.00				
HSDPA II	2	21.46	21.67	22.09				
HJUF A II	3	20.98	21.23	21.56				
	4	20.98	21.18	21.56				
		Avg. Power (dBm)						
	Culk	Av	g. Power (dB	Sm)				
Mode	Sub test	Av	g. Power (dB Channel	Bm)				
Mode	Sub test	Av 1312.00	•	sm) 1513.00				
Mode			Channel					
	test	1312.00	Channel 1413.00	1513.00				
Mode HSDPA IV	test	<b>1312.00</b> 22.24	Channel 1413.00 22.00	<b>1513.00</b> 22.42				

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Mode	Sub test	Avg. Power (dBm) Channel						
	1051	4132.00	4183.00	183.00 4233.00				
	1	22.65	22.80	22.67				
HSDPA V	2	22.72	22.85	22.62				
	3	22.24	22.30	22.13				
	4	22.22	22.33	22.12				

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#### 6.7.3 HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub- test	βc	βa	β <sub>d</sub> (SF)	βс∕βа	βнs	βес	βed	β <sub>ed</sub> (SF)	β <sub>ed</sub> (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps )
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/22 5	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	β <sub>ed</sub> 1: 47/15 β <sub>ed</sub> 2: 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

Mode	Sub	Avg. Power (dBm) Channel						
Mode	test	9262.00	9400.00	9538.00				
	1	21.47	21.65	22.09				
	2	21.00	21.16	21.50				
HSUPA II	3	21.46	21.68	22.00				
	4	20.98	21.18	21.57				
	5	21.48	21.71	22.09				
		Avg. Power (dBm)						
	Cub	Av	/g. Power (dB	m)				
Mode	Sub test	Av	/g. Power (dBi Channel	m)				
Mode	Sub test	Av 1312.00	•	m) 1513.00				
Mode			Channel					
Mode	test	1312.00	Channel 1413.00	1513.00				
Mode HSUPA IV	test 1	<b>1312.00</b> 22.29	Channel           1413.00           22.01	<b>1513.00</b> 22.44				
	test 1 2	<b>1312.00</b> 22.29 21.75	Channel           1413.00           22.01           21.44	<b>1513.00</b> 22.44 21.94				

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台灣檢驗科技股份有限公司

GS Taiwa



Mode	Sub test	Avg. Power (dBm) Channel						
	ເບລເ	4132.00	4183.00	4233.00				
	1	22.71	22.84	22.61				
	2	22.24	22.34	22.15				
HSUPA V	3	22.71	22.80	22.65				
	4	22.17	22.31	22.09				
	5	22.74	22.86	22.60				

#### 6.7.4 WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm then record the read. The min. power was measures by a function key "minimum power" then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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SGS Taiwan Ltd.



#### 6.8 **LTE Measurement Results:**

Antenna	gain (dBi)	0.36							
		LTE	Band 2_Uplin	ık frequ	ency ba	ind : 1850 to 1	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	22.29	22.65	33	-10.35
	18607	1850.7	QPSK	1	5	22.22	22.58	33	-10.42
	10007	1000.0	er ort	3	2	21.45	21.81	33	-11.19
				6	0	21.33	21.69	33	-11.31
				1	0	22.23	22.59	33	-10.41
1.4	18900	1880	QPSK	1	5	22.28	22.64	33	-10.36
	10700		UI SK	3	2	21.32	21.68	33	-11.32
				6	0	21.36	21.72	33	-11.28
			QPSK	1	0	22.28	22.64	33	-10.36
	19193	1909.3		1	5	22.24	22.60	33	-10.4
17170	1707.5	er ort	3	2	21.59	21.95	33	-11.05	
				6	0	21.34	21.70	33	-11.3
	18607	1850.7		1	0	21.11	21.47	33	-11.53
			16QAM	1	5	20.99	21.35	33	-11.65
			1002/101	3	2	20.04	20.40	33	-12.6
				6	0	20.03	20.39	33	-12.61
				1	0	21.21	21.57	33	-11.43
1.4	18900	1880	16QAM	1	5	21.31	21.67	33	-11.33
1.7	10700	1000	TOCAM	3	2	20.19	20.55	33	-12.45
				6	0	20.11	20.47	33	-12.53
				1	0	21.33	21.69	33	-11.31
	19193	1909.3	16QAM	1	5	21.22	21.58	33	-11.42
	17175	1707.3	TOCAM	3	2	20.26	20.62	33	-12.38
				6	0	20.26	20.62	33	-12.38
				1	0	20.03	20.39	33	-12.61
	18607	1850.7	64QAM	1	5	20.00	20.36	33	-12.64
	10007	1030.7		3	2	19.07	19.43	33	-13.57
				6	0	19.01	19.37	33	-13.63
				1	0	20.29	20.65	33	-12.35
1.4	18900	1880	64QAM	1	5	20.33	20.69	33	-12.31
1.4	10700	1000		3	2	19.20	19.56	33	-13.44
				6	0	19.17	19.53	33	-13.47
				1	0	20.10	20.46	33	-12.54
	19193	1909.3	64QAM	1	5	20.26	20.62	33	-12.38
	17175	1707.3		3	2	19.27	19.63	33	-13.37
				6	0	19.34	19.70	33	-13.3

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Antenna	gain (dBi)	0.36										
		LTE	Band 2_Uplin	k frequ	ency ba	and : 1850 to 1	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	22.27	22.63	33	-10.37			
	18615	1851.5	QPSK	1	14	22.35	22.71	33	-10.29			
	10010	1001.0	QUOK	8	4	21.34	21.70	33	-11.3			
					33	-11.4						
				1	0	22.35	22.71	33	-10.29			
3	18900	1880	QPSK	1	14	22.27	22.63	33	-10.37			
5	10700	1000	UF JK	8	4	21.34	21.70	33	-11.3			
				15	0	21.29	21.65	33	-11.35			
			QPSK	1	0	22.38	22.74	33	-10.26			
	19185	1908.5		1	14	22.32	22.68	33	-10.32			
17103	1900.0		8	4	21.53	21.89	33	-10.32 -11.11				
				15	0	21.43	21.79	33	-11.21			
		1851.5		1	0	21.02	21.38	33	-11.62			
	18615		16QAM	1	14	20.89	21.25	33	-11.75			
	10015		TOCAM	8	4	20.04	20.40	33	-12.6			
				15	0	19.95	20.31	33	-12.69			
				1	0	21.28	21.64	33	-11.36			
3	18900	1880	16QAM	1	14	21.20	21.56	33	-11.44			
5	10900	1000	TOCAM	8	4	20.16	20.52	33	-12.48			
				15	0	20.19	20.55	33	-12.45			
				1	0	21.24	21.60	33	-11.4			
	19185	1908.5	16QAM	1	14	21.24	21.60	33	-11.4			
	19100	1900.0	TOQAM	8	4	20.26	20.62	33	-12.38			
				15	0	20.24	20.60	33	-12.4			
				1	0	20.03	20.39	33	-12.61			
	18615	1851.5	64QAM	1	14	20.07	20.43	33	-12.57			
	10015	1001.0		8	4	19.08	19.44	33	-13.56			
				15	0	18.94	19.30	33	(dB)         -10.37         -10.29         -11.3         -11.4         -10.29         -11.3         -11.4         -10.29         -10.37         -11.3         -11.3         -11.3         -11.3         -11.3         -11.3         -11.3         -11.3         -11.3         -11.3         -11.3         -11.4         -11.21         -11.62         -11.75         -12.6         -12.69         -11.4         -12.69         -11.4         -12.48         -12.45         -11.4         -12.45         -11.4         -12.45         -11.4         -12.45         -12.41         -12.57         -13.56         -13.7         -12.37         -12.36         -13.40         -12.5         -12.36         -13.41			
				1	0	20.27	20.63	33	-12.37			
3	18900	1000	64QAM	1	14	20.28	20.64	33	-12.36			
3	10900	1880		8	4	19.18	19.54	33	-13.46			
				15	0	19.21	19.57	33	-13.43			
				1	0	20.14	20.50	33	-12.5			
	10105	1000 F	6400	1	14	20.28	20.64	33	-12.36			
	19185	1908.5	64QAM	8	4	19.23	19.59	33	-13.41			
				15	0	19.26	19.62	33	-13.38			

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Antenna	gain (dBi)	0.36							
		LTE	Band 2_Uplin	ık frequ	ency ba	ind : 1850 to 1	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	22.03	22.39	33	-10.61
	18625	1852.5	QPSK	1	24	22.10	22.46	33	-10.54
	10020	1002.0	QUOR	12	6	21.02	21.38	33	-11.62
				25	0	21.02	21.38	33	-11.62
				1	0	22.35	22.71	33	-10.29
5	18900	1880	QPSK	1	24	22.26	22.62	33	-10.38
5	10700	1000	QI SIX	12	6	21.29	21.65	33	-11.35
				25	0	21.22	21.58	33	-11.42
				1	0	22.32	22.68	33	-10.32
	19175	1907.5	QPSK	1	24	22.39	22.75	33	-10.25
	17175	1707.5		12	6	21.31	21.67	33	-11.33
				25	0	21.31	21.67	33	-11.33
				1	0	21.04	21.40	33	-11.6
	18625	1852.5	16QAM	1	24	21.13	21.49	33	-11.51
		1052.5		12	6	20.03	20.39	33	-12.61
				25	0	20.09	20.45	33	-12.55
			16QAM	1	0	21.28	21.64	33	-11.36
5	18900	1880		1	24	21.28	21.64	33	-11.36
5	10900	1000	TOCAM	12	6	20.28	20.64	33	-12.36
				25	0	20.27	20.63	33	-12.37
				1	0	21.28	21.64	33	-11.36
	19175	1907.5	16QAM	1	24	21.32	21.68	33	-11.32
	19175	1907.3	TOQAW	12	6	20.31	20.67	33	-12.33
				25	0	20.40	20.76	33	-12.24
				1	0	20.06	20.42	33	-12.58
	10405	10E0 E	64000	1	24	20.04	20.40	33	-12.6
	18625	1852.5	64QAM	12	6	19.09	19.45	33	-13.55
				25	0	19.04	19.40	33	-13.6
				1	0	20.25	20.61	33	-12.39
	10000	1000		1	24	20.35	20.71	33	-12.29
5	5 18900	1880	64QAM	12	6	19.28	19.64	33	-13.36
				25	0	19.28	19.64	33	-13.36
				1	0	20.28	20.64	33	-12.36
	10175	1007 5		1	24	20.28	20.64	33	-12.36
	19175	1907.5	64QAM	12	6	19.32	19.68	33	-13.32
				25	0	19.35	19.71	33	-13.29

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Antenna	gain (dBi)	0.36							
		LTE	Band 2_Uplin	ık frequ	ency ba	and : 1850 to 1	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	22.15	22.51	33	-10.49
	18650	1855	QPSK	1	49	22.13	22.49	33	-10.51
	10000	1000	QUOR	25	12	21.16	21.52	33	-11.48
				50	0	21.14	21.50	33	-11.5
				1	0	22.28	22.64	33	-10.36
10	18900	1880	QPSK	1	49	22.34	22.70	33	-10.3
10	10700	1000	QUOR	25	12	21.36	21.72	33	-11.28
				50	0	21.27	21.63	33	-11.37
				1	0	22.32	22.68	33	-10.32
	19150	1905	QPSK	1	49	22.30	22.66	33	-10.34
	17100	1700	QUOR	25	12	21.26	21.62	33	-11.38
				50	0	21.30	21.66	33	-11.34
				1	0	21.15	21.51	33	-11.49
	18650	1855	16QAM	1	49	21.13	21.49	33	-11.51
		1033		25	12	20.14	20.50	33	-12.5
				50	0	20.16	20.52	33	-12.48
			16QAM	1	0	21.31	21.67	33	-11.33
10	18900	1880		1	49	21.36	21.72	33	-11.28
10	10700	1000	TOCAM	25	12	20.33	20.69	33	-12.31
				50	0	20.34	20.70	33	-12.3
				1	0	21.38	21.74	33	-11.26
	19150	1905	16QAM	1	49	21.27	21.63	33	-11.37
	19130	1705	TOQAM	25	12	20.35	20.71	33	-12.29
				50	0	20.38	20.74	33	-12.26
				1	0	20.03	20.39	33	-12.61
	18650	1855	64QAM	1	49	20.02	20.38	33	-12.62
	10030	1055		25	12	19.09	19.45	33	-13.55
				50	0	19.08	19.44	33	-13.56
				1	0	20.22	20.58	33	-12.42
10	12000	1880	64QAM	1	49	20.27	20.63	33	-12.37
10	10 18900	1000		25	12	19.30	19.66	33	-13.34
				50	0	19.32	19.68	33	-13.32
				1	0	20.26	20.62	33	-12.38
	19150	1905	64QAM	1	49	20.35	20.71	33	-12.29
	17130	1700		25	12	19.29	19.65	33	-13.35
				50	0	19.36	19.72	33	-13.28

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Antenna	gain (dBi)	0.36							
		LTE	Band 2_Uplin	ık frequ	ency ba	ind: 1850 to 1	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	22.14	22.50	33	-10.5
	18675	1857.5	QPSK	1	74	22.10	22.46	33	-10.54
	10070	1007.0	QUOR	36	18	21.04	21.40	33	-11.6
				75	0	21.06	21.42	33	-11.58
				1	0	22.31	22.67	33	-10.33
15	18900	1880	QPSK	1	74	22.22	22.58	33	-10.42
10	10700	1000	QUOR	36	18	21.33	21.69	33	-11.31
				75	0	21.29	21.65	33	-11.35
				1	0	22.39	22.75	33	-10.25
	19125	1902.5	QPSK	1	74	22.29	22.65	33	-10.35
	17120	1702.0	QUOR	36	18	21.37	21.73	33	-11.27
				75	0	21.31	21.67	33	-11.33
				1	0	21.07	21.43	33	-11.57
	18675	1857.5	16QAM	1	74	21.11	21.47	33	-11.53
		1007.0		36	18	20.10	20.46	33	-12.54
				75	0	20.05	20.41	33	-12.59
		1880	16QAM	1	0	21.31	21.67	33	-11.33
15	18900			1	74	21.30	21.66	33	-11.34
15	10700	1000		36	18	20.29	20.65	33	-12.35
				75	0	20.28	20.64	33	-12.36
				1	0	21.30	21.66	33	-11.34
	19125	1902.5	16QAM	1	74	21.34	21.70	33	-11.3
	17125	1702.3	TUCAM	36	18	20.30	20.66	33	-12.34
				75	0	20.37	20.73	33	-12.27
				1	0	20.02	20.38	33	-12.62
	18675	1857.5	64QAM	1	74	20.09	20.45	33	-12.55
	10075	1007.0		36	18	19.11	19.47	33	-13.53
				75	0	19.13	19.49	33	-13.51
				1	0	20.31	20.67	33	-12.33
15	10000	1880	64QAM	1	74	20.32	20.68	33	-12.32
10	15 18900	1000		36	18	19.32	19.68	33	-13.32
				75	0	19.33	19.69	33	-13.31
				1	0	20.29	20.65	33	-12.35
	10125	1002 5	64000	1	74	20.34	20.70	33	-12.3
	19125	1902.5	64QAM	36	18	19.30	19.66	33	-13.34
				75	0	19.30	19.66	33	-13.34

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Antenna	gain (dBi)	0.36							
		LTE	Band 2_Uplin	k frequ	ency ba	ind : 1850 to 7	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	22.18	22.54	33	-10.46
	18700	1860	QPSK	1	99	22.37	22.73	33	-10.27
	10700	1000		50	25	21.48	21.84	33	-11.16
				100	0	21.39	21.75	33	-11.25
				1	0	22.38	22.74	33	-10.26
20	18900	1880	QPSK	1	99	22.36	22.72	33	-10.28
20	10700	1000	er ort	50	25	21.44	21.80	33	-11.2
				100	0	21.44	21.80	33	-11.2
				1	0	22.42	22.78	33	-10.22
	19100	1900	QPSK	1	99	22.42	22.78	33	-10.22
	17100	1700	QI SIX	50	25	21.62	21.98	33	-11.02
				100	0	21.49	21.85	33	-11.15
			16QAM	1	0	21.13	21.49	33	-11.51
	18700	1860		1	99	21.05	21.41	33	-11.59
	10700	1000		50	25	20.09	20.45	33	-12.55
		_		100	0	20.06	20.42	33	-12.58
		00 1880	16QAM	1	0	21.31	21.67	33	-11.33
20	18900			1	99	21.33	21.69	33	-11.31
20	10700	1000		50	25	20.23	20.59	33	-12.41
				100	0	20.25	20.61	33	-12.39
				1	0	21.39	21.75	33	-11.25
	19100	1900	16QAM	1	99	21.34	21.70	33	-11.3
	19100	1900	TOCAM	50	25	20.31	20.67	33	-12.33
				100	0	20.36	20.72	33	-12.28
				1	0	20.12	20.48	33	-12.52
	18700	1860	64QAM	1	99	20.09	20.45	33	-12.55
	10700	1000		50	25	19.16	19.52	33	-13.48
				100	0	19.03	19.39	33	-13.61
				1	0	20.32	20.68	33	-12.32
20	18900	1880	64QAM	1	99	20.35	20.71	33	-12.29
20	10900	1000		50	25	19.33	19.69	33	-13.31
				100	0	19.32	19.68	33	-13.32
				1	0	20.26	20.62	33	-12.38
	19100	1000		1	99	20.35	20.71	33	-12.29
	19100	1900	64QAM	50	25	19.33	19.69	33	-13.31
				100	0	19.36	19.72	33	-13.28

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Antenna	gain (dBi)	-1.24	ſ						
		LTE	Band 4_Uplin	ık frequ	ency ba	ind: 1710 to 1	1755 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	22.32	21.08	30	-8.92
	19957	1710.7	QPSK	1	5	22.30	21.06	30	-8.94
	17757	1710.7	QI SIX	3	2	22.24	21.00	30	-9
				6	0	21.27	20.03	30	-9.97
				1	0	22.14	20.90	30	-9.1
1.4	20175	1732.5	QPSK	1	5	22.25	21.01	30	-8.99
1.4	20175	1752.5		3	2	22.24	21.00	30	-9
				6	0	21.21	19.97	30	-10.03
				1	0	22.38	21.14	30	-8.86
	20393	1754.3	QPSK	1	5	22.42	21.18	30	-8.82
	20373	1754.5		3	2	22.36	21.12	30	-8.88
				6	0	21.47	20.23	30	-9.77
				1	0	21.28	20.04	30	-9.96
	19957	1710.7	16QAM	1	5	21.19	19.95	30	-10.05
		1710.7		3	2	21.29	20.05	30	-9.95
				6	0	20.29	19.05	30	-10.95
		5 1732.5	16QAM	1	0	21.18	19.94	30	-10.06
1.4	20175			1	5	21.20	19.96	30	-10.04
1.4	20175	1752.5		3	2	21.26	20.02	30	-9.98
				6	0	20.21	18.97	30	-11.03
				1	0	21.36	20.12	30	-9.88
	20393	1754.3	16QAM	1	5	21.45	20.21	30	-9.79
	20393	1704.5	TOQAW	3	2	21.38	20.14	30	-9.86
				6	0	20.46	19.22	30	-10.78
				1	0	20.24	19.00	30	-11
	10057	1710.7	64000	1	5	20.18	18.94	30	-11.06
	19957	1710.7	64QAM	3	2	20.28	19.04	30	-10.96
				6	0	19.19	17.95	30	-12.05
				1	0	20.12	18.88	30	-11.12
1 /	20175	1700 ⊑	61000	1	5	20.25	19.01	30	-10.99
1.4	1.4 20175	1732.5	64QAM	3	2	20.14	18.90	30	-11.1
				6	0	19.25	18.01	30	-11.99
				1	0	20.47	19.23	30	-10.77
	20202	1754.0		1	5	20.42	19.18	30	-10.82
	20393	1754.3	64QAM	3	2	20.41	19.17	30	-10.83
				6	0	19.40	18.16	30	-11.84

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Antenna	gain (dBi)	-1.24	ſ						
		LTE	Band 4_Uplin	k frequ	ency ba	ind: 1710 to 1	1755 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	22.22	20.98	30	-9.02
	19965	1711.5	QPSK	1	14	22.28	21.04	30	-8.96
	17703	1711.3		8	4	21.20	19.96	30	-10.04
				15	0	21.27	20.03	30	-9.97
				1	0	22.16	20.92	30	-9.08
3	20175	1732.5	QPSK	1	14	22.25	21.01	30	-8.99
5	20175	1752.5		8	4	21.23	19.99	30	-10.01
				15	0	21.12	19.88	30	-10.12
				1	0	22.48	21.24	30	-8.76
	20385	1753.5	QPSK	1	14	22.45	21.21	30	-8.79
	20303	1755.5		8	4	21.37	20.13	30	-9.87
				15	0	21.48	20.24	30	-9.76
				1	0	21.21	19.97	30	-10.03
	19965	1711.5	16QAM	1	14	21.22	19.98	30	-10.02
		1711.3		8	4	20.28	19.04	30	-10.96
				15	0	20.25	19.01	30	-10.99
			16QAM	1	0	21.19	19.95	30	-10.05
3	20175	1732.5		1	14	21.24	20.00	30	-10
3	20175	1752.5	TOQAM	8	4	20.25	19.01	30	-10.99
				15	0	20.23	18.99	30	-11.01
				1	0	21.49	20.25	30	-9.75
	20385	1753.5	16QAM	1	14	21.44	20.20	30	-9.8
	20365	1705.0	TOQAM	8	4	20.48	19.24	30	-10.76
				15	0	20.47	19.23	30	-10.77
				1	0	20.31	19.07	30	-10.93
	19965	1711.5	64QAM	1	14	20.30	19.06	30	-10.94
	19900	1711.0		8	4	19.28	18.04	30	-11.96
				15	0	19.24	18.00	30	-12
				1	0	20.19	18.95	30	-11.05
2	20175	1732.5	64QAM	1	14	20.12	18.88	30	-11.12
3	3 20175	1732.0		8	4	19.21	17.97	30	-12.03
				15	0	19.19	17.95	30	-12.05
				1	0	20.47	19.23	30	-10.77
	20205	1753.5	64000	1	14	20.39	19.15	30	-10.85
	20385	1703.0	64QAM	8	4	19.36	18.12	30	-11.88
				15	0	19.49	18.25	30	-11.75

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Antenna	gain (dBi)	-1.24							
		LTE	Band 4_Uplin	k frequ	ency ba	ind: 1710 to 1	1755 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	22.24	21.00	30	-9
	19975	1712.5	QPSK	1	24	22.22	20.98	30	-9.02
	17775	1712.3	QI JK	12	6	21.26	20.02	30	-9.98
				25	0	21.22	19.98	30	-10.02
				1	0	22.13	20.89	30	-9.11
5	20175	1732.5	QPSK	1	24	22.12	20.88	30	-9.12
5	20175	1752.5		12	6	21.26	20.02	30	-9.98
				25	0	21.16	19.92	30	-10.08
				1	0	22.48	21.24	30	-8.76
	20375	1752.5	QPSK	1	24	22.45	21.21	30	-8.79
	20373	1752.5		12	6	21.44	20.20	30	-9.8
				25	0	21.38	20.14	30	-9.86
				1	0	21.20	19.96	30	-10.04
	19975	1712.5	16QAM	1	24	21.22	19.98	30	-10.02
		1712.3		12	6	20.29	19.05	30	-10.95
				25	0	20.19	18.95	30	-11.05
			16QAM	1	0	21.12	19.88	30	-10.12
5	20175	1732.5		1	24	21.24	20.00	30	-10
5	20175	1752.5	TOCAM	12	6	20.20	18.96	30	-11.04
				25	0	20.16	18.92	30	-11.08
				1	0	21.42	20.18	30	-9.82
	20375	1752.5	16QAM	1	24	21.42	20.18	30	-9.82
	20375	1752.5	TOQAM	12	6	20.46	19.22	30	-10.78
				25	0	20.42	19.18	30	-10.82
				1	0	20.19	18.95	30	-11.05
	19975	1712.5	64QAM	1	24	20.19	18.95	30	-11.05
	17775	1712.0		12	6	19.28	18.04	30	-11.96
				25	0	19.28	18.04	30	-11.96
				1	0	20.17	18.93	30	-11.07
F	20175	1732.5	64QAM	1	24	20.24	19.00	30	-11
5	5 20175	1732.0		12	6	19.23	17.99	30	-12.01
				25	0	19.26	18.02	30	-11.98
				1	0	20.47	19.23	30	-10.77
	20375	1752.5	640 004	1	24	20.41	19.17	30	-10.83
	20375	1702.0	64QAM	12	6	19.49	18.25	30	-11.75
				25	0	19.38	18.14	30	-11.86

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Antenna	gain (dBi)	-1.24							
		LTE	Band 4_Uplin	ık frequ	ency ba	ind : 1710 to 1	1755 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	22.24	21.00	30	-9
	20000	1715	QPSK	1	49	22.20	20.96	30	-9.04
	20000	1715	QI SIX	25	12	21.29	20.05	30	-9.95
				50	0	21.20	19.96	30	-10.04
				1	0	22.17	20.93	30	-9.07
10	20175	1732.5	QPSK	1	49	22.12	20.88	30	-9.12
10	20175	1752.5		25	12	21.24	20.00	30	-10
				50	0	21.19	19.95	30	-10.05
				1	0	22.42	21.18	30	-8.82
	20350	1750	QPSK	1	49	22.47	21.23	30	-8.77
	20330	1750		25	12	21.40	20.16	30	-9.84
				50	0	21.43	20.19	30	-9.81
				1	0	21.23	19.99	30	-10.01
	20000	1715	16QAM	1	49	21.20	19.96	30	-10.04
	20000	1715	TOQAW	25	12	20.23	18.99	30	-11.01
				50	0	20.18	18.94	30	-11.06
		1732.5	16QAM	1	0	21.17	19.93	30	-10.07
10	20175			1	49	21.13	19.89	30	-10.11
10	20175	1752.5		25	12	20.24	19.00	30	-11
				50	0	20.19	18.95	30	-11.05
				1	0	21.42	20.18	30	-9.82
	20350	1750	16QAM	1	49	21.44	20.20	30	-9.8
	20300	1750	TOQAM	25	12	20.37	19.13	30	-10.87
				50	0	20.42	19.18	30	-10.82
				1	0	20.26	19.02	30	-10.98
	20000	1715	64QAM	1	49	20.27	19.03	30	-10.97
	20000	1715		25	12	19.22	17.98	30	-12.02
				50	0	19.27	18.03	30	-11.97
				1	0	20.26	19.02	30	-10.98
10	20175	1732.5	64QAM	1	49	20.22	18.98	30	-11.02
10	20175	1732.0		25	12	19.25	18.01	30	-11.99
				50	0	19.16	17.92	30	-12.08
				1	0	20.42	19.18	30	-10.82
	20250	1750	640 004	1	49	20.41	19.17	30	-10.83
	20350	1750	64QAM	25	12	19.35	18.11	30	-11.89
				50	0	19.41	18.17	30	-11.83

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Antenna	gain (dBi)	-1.24							
		LTE	Band 4_Uplin	ık frequ	ency ba	ind : 1710 to 1	1755 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	22.25	21.01	30	-8.99
	20025	1717.5	QPSK	1	74	22.18	20.94	30	-9.06
	20020	1717.0	QUOR	36	18	21.23	19.99	30	-10.01
				75	0	21.18	19.94	30	-10.06
				1	0	22.16	20.92	30	-9.08
15	20175	1732.5	QPSK	1	74	22.16	20.92	30	-9.08
10	20170	1702.0	QUOR	36	18	21.21	19.97	30	-10.03
				75	0	21.22	19.98	30	-10.02
				1	0	22.42	21.18	30	-8.82
	20325	1747.5	QPSK	1	74	22.45	21.21	30	-8.79
	20020	17 17.0	QUOR	36	18	21.42	20.18	30	-9.82
				75	0	21.40	20.16	30	-9.84
				1	0	21.32	20.08	30	-9.92
	20025	1717.5	16QAM	1	74	21.19	19.95	30	-10.05
		1717.5		36	18	20.18	18.94	30	-11.06
				75	0	20.19	18.95	30	-11.05
			16QAM	1	0	21.15	19.91	30	-10.09
15	20175	1732.5		1	74	21.20	19.96	30	-10.04
10	20175	1752.5		36	18	20.23	18.99	30	-11.01
				75	0	20.16	18.92	30	-11.08
				1	0	21.37	20.13	30	-9.87
	20325	1747.5	16QAM	1	74	21.43	20.19	30	-9.81
	20323	1747.5	TOCAM	36	18	20.43	19.19	30	-10.81
				75	0	20.40	19.16	30	-10.84
				1	0	20.18	18.94	30	-11.06
	20025	1717.5	64QAM	1	74	20.21	18.97	30	-11.03
	20023	1717.3		36	18	19.29	18.05	30	-11.95
				75	0	19.28	18.04	30	-11.96
				1	0	20.12	18.88	30	-11.12
15	15 20175 173	1732.5	64QAM	1	74	20.24	19.00	30	-11
10		1752.5		36	18	19.22	17.98	30	-12.02
				75	0	19.20	17.96	30	-12.04
				1	0	20.41	19.17	30	-10.83
	20325	1747.5	64QAM	1	74	20.48	19.24	30	-10.76
	20325	1747.0		36	18	19.45	18.21	30	-11.79
				75	0	19.36	18.12	30	-11.88

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Antenna	gain (dBi)	-1.24							
		LTE	Band 4_Uplin	k frequ	ency ba	ind : 1710 to 7	1755 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	22.34	21.10	30	-8.9
	20050	1720	QPSK	1	99	22.34	21.10	30	-8.9
	20000	1720	er ort	50	25	21.32	20.08	30	-9.92
				100	0	21.34	20.10	30	-9.9
				1	0	22.28	21.04	30	-8.96
20	20175	1732.5	QPSK	1	99	22.24	21.00	30	-9
20	20170	1702.0	er ort	50	25	21.57	20.33	30	-9.67
				100	0	21.44	20.20	30	-9.8
				1	0	22.51	21.27	30	-8.73
	20300	1745	QPSK	1	99	22.17	20.93	30	-9.07
	20000	17 10	QUOR	50	25	21.28	20.04	30	-9.96
				100	0	21.31	20.07	30	-9.93
				1	0	21.18	19.94	30	-10.06
	20050	1720	16QAM	1	99	21.28	20.04	30	-9.96
		1720		50	25	20.25	19.01	30	-10.99
				100	0	20.24	19.00	30	-11
			16QAM	1	0	21.18	19.94	30	-10.06
20	20175	1732.5		1	99	21.13	19.89	30	-10.11
20	20175	1752.5		50	25	20.23	18.99	30	-11.01
				100	0	20.22	18.98	30	-11.02
				1	0	21.36	20.12	30	-9.88
	20300	1745	16QAM	1	99	21.36	20.12	30	-9.88
	20300	1745	TOCAM	50	25	20.43	19.19	30	-10.81
				100	0	20.46	19.22	30	-10.78
				1	0	20.29	19.05	30	-10.95
	20050	1720	64QAM	1	99	20.23	18.99	30	-11.01
	20030	1720		50	25	19.21	17.97	30	-12.03
				100	0	19.27	18.03	30	-11.97
				1	0	20.25	19.01	30	-10.99
20	20 20175	1732.5	64QAM	1	99	20.16	18.92	30	-11.08
20		1732.3		50	25	19.12	17.88	30	-12.12
				100	0	19.23	17.99	30	-12.01
				1	0	20.42	19.18	30	-10.82
	20300	1745	640004	1	99	20.46	19.22	30	-10.78
	20300	1/40	64QAM	50	25	19.45	18.21	30	-11.79
				100	0	19.41	18.17	30	-11.83

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Antenna	gain (dBi)	-5.7								
			LTE Band	5_Upli	nk frequ	iency band : 8	324 to 849 MF	lz		
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	23.08	15.23	17.38	38.45	-23.22
	20407	824.7	QPSK	1	5	23.12	15.27	17.42	38.45	-23.18
	20407	024.7	UF SK	3	2	23.17	15.32	17.47	38.45	-23.13
				6	0	22.13	14.28	16.43	38.45	-24.17
				1	0	22.92	15.07	17.22	38.45	-23.38
1.4	20525	836.5	QPSK	1	5	22.89	15.04	17.19	38.45	-23.41
1.4	20525	030.0	UFSK	3	2	23.02	15.17	17.32	38.45	-23.28
				6	0	21.92	14.07	16.22	38.45	-24.38
				1	0	22.85	15.00	17.15	38.45	-23.45
	20643	848.3	QPSK	1	5	22.91	15.06	17.21	38.45	-23.39
	20043	040.3	UFSK	3	2	22.89	15.04	17.19	38.45	-23.41
				6	0	21.84	13.99	16.14	38.45	-24.46
				1	0	22.06	14.21	16.36	38.45	-24.24
	20407	824.7	16QAM	1	5	22.13	14.28	16.43	38.45	-24.17
	20407	024.7	TOQAW	3	2	22.05	14.20	16.35	38.45	-24.25
				6	0	21.07	13.22	15.37	38.45	-25.23
				1	0	21.96	14.11	16.26	38.45	-24.34
1.4	20525	836.5	16QAM	1	5	21.95	14.10	16.25	38.45	-24.35
1.4	20323	030.5	TOCAN	3	2	22.00	14.15	16.30	38.45	-24.30
				6	0	20.93	13.08	15.23	38.45	-25.37
				1	0	21.85	14.00	16.15	38.45	-24.45
	20643	848.3	16QAM	1	5	21.86	14.01	16.16	38.45	-24.44
	20045	040.5	TOCAN	3	2	21.93	14.08	16.23	38.45	-24.37
				6	0	20.90	13.05	15.20	38.45	-25.40
				1	0	21.17	13.32	15.47	38.45	-25.13
	20407	824.7	64QAM	1	5	21.17	13.32	15.47	38.45	-25.13
	20407	024.7		3	2	21.13	13.28	15.43	38.45	-25.17
				6	0	20.13	12.28	14.43	38.45	-26.17
				1	0	20.92	13.07	15.22	38.45	-25.38
1 /	20525	836.5	64QAM	1	5	20.92	13.07	15.22	38.45	-25.38
1.4 20525	030.0		3	2	20.95	13.10	15.25	38.45	-25.35	
				6	0	20.00	12.15	14.30	38.45	-26.30
				1	0	20.89	13.04	15.19	38.45	-25.41
	20643	848.3	640 004	1	5	20.81	12.96	15.11	38.45	-25.49
	20043	040.3	64QAM	3	2	20.92	13.07	15.22	38.45	-25.38
				6	0	19.80	11.95	14.10	38.45	-26.50

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Antenna	gain (dBi)	-5.7								
			LTE Band	5_Upli	nk frequ	iency band : 8	324 to 849 M⊦	lz		
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	23.11	15.26	17.41	38.45	-23.19
	20415	825.5	QPSK	1	14	23.10	15.25	17.40	38.45	-23.20
	20413	023.5	QI SIX	8	4	22.04	14.19	16.34	38.45	-24.26
				15	0	22.15	14.30	16.45	38.45	-24.15
				1	0	22.91	15.06	17.21	38.45	-23.39
3	20525	836.5	QPSK	1	14	22.98	15.13	17.28	38.45	-23.32
5	20323	030.3	QI SIX	8	4	21.89	14.04	16.19	38.45	-24.41
				15	0	21.97	14.12	16.27	38.45	-24.33
				1	0	22.84	14.99	17.14	38.45	-23.46
	20635	847.5	QPSK	1	14	22.87	15.02	17.17	38.45	-23.43
	20033	047.5	UT SK	8	4	21.86	14.01	16.16	38.45	-24.44
				15	0	21.87	14.02	16.17	38.45	-24.43
				1	0	22.16	14.31	16.46	38.45	-24.14
	20415	825.5	16QAM	1	14	22.09	14.24	16.39	38.45	-24.21
				8	4	21.11	13.26	15.41	38.45	-25.19
				15	0	21.15	13.30	15.45	38.45	-25.15
				1	0	21.91	14.06	16.21	38.45	-24.39
3	20525	836.5	16QAM	1	14	22.00	14.15	16.30	38.45	-24.30
5	20020	030.3	TOCAN	8	4	21.01	13.16	15.31	38.45	-25.29
				15	0	20.89	13.04	15.19	38.45	-25.41
				1	0	21.88	14.03	16.18	38.45	-24.42
	20635	847.5	16QAM	1	14	21.87	14.02	16.17	38.45	-24.43
	20035	047.3	TOCAN	8	4	20.92	13.07	15.22	38.45	-25.38
				15	0	20.86	13.01	15.16	38.45	-25.44
				1	0	21.04	13.19	15.34	38.45	-25.26
	20415	825.5	64QAM	1	14	21.09	13.24	15.39	38.45	-25.21
	20415	020.0		8	4	20.15	12.30	14.45	38.45	-26.15
				15	0	20.13	12.28	14.43	38.45	-26.17
				1	0	20.92	13.07	15.22	38.45	-25.38
2	20525	836.5	64QAM	1	14	20.96	13.11	15.26	38.45	-25.34
3	3 20525	030.3	04QAW	8	4	20.01	12.16	14.31	38.45	-26.29
				15	0	19.94	12.09	14.24	38.45	-26.36
				1	0	20.80	12.95	15.10	38.45	-25.50
	20635	847.5	64QAM	1	14	20.79	12.94	15.09	38.45	-25.51
	20030	047.3	04QAW	8	4	19.90	12.05	14.20	38.45	-26.40
				15	0	19.83	11.98	14.13	38.45	-26.47

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Antenna	gain (dBi)	-5.7								
			LTE Band	5_Upli	nk frequ	iency band : 8	324 to 849 MH	łz		
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	23.07	15.22	17.37	38.45	-23.23
	20425	826.5	QPSK	1	24	23.11	15.26	17.41	38.45	-23.19
	20423	020.5	UF SK	12	6	22.04	14.19	16.34	38.45	-24.26
				25	0	22.14	14.29	16.44	38.45	-24.16
				1	0	22.96	15.11	17.26	38.45	-23.34
5	20525	836.5	QPSK	1	24	22.90	15.05	17.20	38.45	-23.40
5	20323	030.3	UI JK	12	6	21.96	14.11	16.26	38.45	-24.34
				25	0	21.93	14.08	16.23	38.45	-24.37
				1	0	22.90	15.05	17.20	38.45	-23.40
	20625	846.5	QPSK	1	24	22.88	15.03	17.18	38.45	-23.42
	20025	040.5	UF SK	12	6	21.85	14.00	16.15	38.45	-24.45
				25	0	21.84	13.99	16.14	38.45	-24.46
				1	0	22.10	14.25	16.40	38.45	-24.20
	20425	826.5	16QAM	1	24	22.11	14.26	16.41	38.45	-24.19
	20423	020.5	TUCAM	12	6	21.04	13.19	15.34	38.45	-25.26
				25	0	21.15	13.30	15.45	38.45	-25.15
				1	0	21.97	14.12	16.27	38.45	-24.33
5	20525	836.5	16QAM	1	24	21.90	14.05	16.20	38.45	-24.40
5	20323	030.5	TOCAM	12	6	20.89	13.04	15.19	38.45	-25.41
				25	0	20.92	13.07	15.22	38.45	-25.38
				1	0	21.84	13.99	16.14	38.45	-24.46
	20625	846.5	16QAM	1	24	21.81	13.96	16.11	38.45	-24.49
	20023	040.5	TUCAM	12	6	20.82	12.97	15.12	38.45	-25.48
				25	0	20.86	13.01	15.16	38.45	-25.44
				1	0	21.05	13.20	15.35	38.45	-25.25
	20425	826.5	64QAM	1	24	21.09	13.24	15.39	38.45	-25.21
	20423	020.5		12	6	20.18	12.33	14.48	38.45	-26.12
				25	0	20.10	12.25	14.40	38.45	-26.20
				1	0	20.97	13.12	15.27	38.45	-25.33
5	20525	836.5	64QAM	1	24	20.98	13.13	15.28	38.45	-25.32
5	20020	000.0		12	6	19.93	12.08	14.23	38.45	-26.37
				25	0	20.03	12.18	14.33	38.45	-26.27
				1	0	20.88	13.03	15.18	38.45	-25.42
	20625	846.5	64QAM	1	24	20.79	12.94	15.09	38.45	-25.51
	20023	0.0		12	6	19.92	12.07	14.22	38.45	-26.38
				25	0	19.93	12.08	14.23	38.45	-26.37

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Antenna	gain (dBi)	-5.7								
			LTE Band	5_Upli	nk frequ	iency band : 8	324 to 849 MF	lz		
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	23.20	15.35	17.50	38.45	-23.10
	20450	829	QPSK	1	49	23.04	15.19	17.34	38.45	-23.26
	20430	027	QI SIX	25	12	22.21	14.36	16.51	38.45	-24.09
				50	0	22.23	14.38	16.53	38.45	-24.07
				1	0	23.05	15.20	17.35	38.45	-23.25
10	20525	836.5	QPSK	1	49	22.82	14.97	17.12	38.45	-23.48
10	20020	030.3	UF SK	25	12	22.03	14.18	16.33	38.45	-24.27
				50	0	22.07	14.22	16.37	38.45	-24.23
				1	0	22.95	15.10	17.25	38.45	-23.35
	20600	844	QPSK	1	49	22.74	14.89	17.04	38.45	-23.56
	20000	044	UFSK	25	12	21.99	14.14	16.29	38.45	-24.31
				50	0	21.97	14.12	16.27	38.45	-24.33
				1	0	22.16	14.31	16.46	38.45	-24.14
	20450	829	16QAM	1	49	22.08	14.23	16.38	38.45	-24.22
	20430	029	TOQAW	25	12	21.18	13.33	15.48	38.45	-25.12
				50	0	21.05	13.20	15.35	38.45	-25.25
				1	0	21.90	14.05	16.20	38.45	-24.40
10	20525	836.5	16QAM	1	49	21.91	14.06	16.21	38.45	-24.39
10	20020	030.3	TOCAN	25	12	20.96	13.11	15.26	38.45	-25.34
				50	0	20.92	13.07	15.22	38.45	-25.38
				1	0	21.90	14.05	16.20	38.45	-24.40
	20600	844	16QAM	1	49	21.92	14.07	16.22	38.45	-24.38
	20000	044	TOQAW	25	12	20.91	13.06	15.21	38.45	-25.39
				50	0	20.88	13.03	15.18	38.45	-25.42
				1	0	21.05	13.20	15.35	38.45	-25.25
	20450	829	64QAM	1	49	21.18	13.33	15.48	38.45	-25.12
	20430	029		25	12	20.14	12.29	14.44	38.45	-26.16
				50	0	20.17	12.32	14.47	38.45	-26.13
				1	0	20.91	13.06	15.21	38.45	-25.39
10	20525	836.5	64QAM	1	49	21.02	13.17	15.32	38.45	-25.28
IU	20020	030.3	04QAW	25	12	19.96	12.11	14.26	38.45	-26.34
				50	0	19.92	12.07	14.22	38.45	-26.38
				1	0	20.80	12.95	15.10	38.45	-25.50
	20600	844	64QAM	1	49	20.83	12.98	15.13	38.45	-25.47
	20000	044	04QAW	25	12	19.80	11.95	14.10	38.45	-26.50
				50	0	19.84	11.99	14.14	38.45	-26.46

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Antenna	gain (dBi)	0.03														
		LTE	Band 7_Uplin	ık frequ	ency ba	ind : 2500 to 2	2570 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	22.20	22.23	33	-10.77							
	20775	2502.5	QPSK	1	24	22.14	22.17	33	-10.83							
	20110	2002.0	QI SIX	12	6	21.09	21.12	33	-11.88							
				25	0	21.14	21.17	33	-11.83							
				1	0	22.16	22.19	33	-10.81							
5	21100	2535	QPSK	1	24	22.23	22.26	33	-10.74							
0	21100	2000	QUOR	12	6	21.27	21.30	33	-11.7							
				25	0	21.16	21.19	33	-11.81							
				1	0	22.57	22.60	33	-10.4							
	21425	2567.5	QPSK	1	24	22.51	22.54	33	-10.46							
	21425	2007.0		12	6	21.55	21.58	33	-11.42							
				25	0	21.56	21.59	33	-11.41							
				1	0	21.17	21.20	33	-11.8							
	20775	2502.5	16QAM	1	24	21.20	21.23	33	-11.77							
	20773	2502.5	2502.5	2002.0	2302.5	2302.3	2002.0	2002.5	2002.0	TUCAM	12	6	20.14	20.17	33	-12.83
				25	0	20.10	20.13	33	-12.87							
				1	0	21.29	21.32	33	-11.68							
5	21100	2535	16QAM	1	24	21.16	21.19	33	-11.81							
J	21100	2000	TUCAM	12	6	20.21	20.24	33	-12.76							
				25	0	20.28	20.31	33	-12.69							
				1	0	21.48	21.51	33	-11.49							
	21425	2567.5	16QAM	1	24	21.57	21.60	33	-11.4							
	21420	2007.0	TOQAM	12	6	20.48	20.51	33	-12.49							
				25	0	20.61	20.64	33	-12.36							
				1	0	20.07	20.10	33	-12.9							
	20775	2502.5	64QAM	1	24	20.08	20.11	33	-12.89							
	20775	2002.0		12	6	19.10	19.13	33	-13.87							
				25	0	19.12	19.15	33	-13.85							
				1	0	20.19	20.22	33	-12.78							
5	21100	2535	64QAM	1	24	20.23	20.26	33	-12.74							
J	21100	2000		12	6	19.29	19.32	33	-13.68							
				25	0	19.25	19.28	33	-13.72							
				1	0	20.57	20.60	33	-12.4							
	21425	2567.5	64QAM	1	24	20.50	20.53	33	-12.47							
	21420	2007.0		12	6	19.50	19.53	33	-13.47							
				25	0	19.49	19.52	33	-13.48							

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Antenna	gain (dBi)	0.03															
		LTE	Band 7_Uplin	ık frequ	ency ba	ind : 2500 to 2	2570 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	22.15	22.18	33	-10.82								
	20800	2505	QPSK	1	49	22.18	22.21	33	-10.79								
	20000	2000	2. 0.1	25	12	21.16	21.19	33	-11.81								
				50	0	21.08	21.11	33	-11.89								
				1	0	22.21	22.24	33	-10.76								
10	21100	2535	QPSK	1	49	22.27	22.30	33	-10.7								
10	2	2000	2. 0.1	25	12	21.16	21.19	33	-11.81								
				50	0	21.23	21.26	33	-11.74								
				1	0	22.59	22.62	33	-10.38								
	21400	2565	QPSK	1	49	22.62	22.65	33	-10.35								
	21400		QUOR	25	12	21.49	21.52	33	-11.48								
				50	0	21.56	21.59	33	-11.41								
				1	0	21.13	21.16	33	-11.84								
	20800	2505	16QAM	1	49	21.16	21.19	33	-11.81								
	20000	2505	2000	2303	2303	2303	2505	2505	2303	2303	16QAW	25	12	20.10	20.13	33	-12.87
				50	0	20.15	20.18	33	-12.82								
				1	0	21.19	21.22	33	-11.78								
10	21100	2535	16QAM	1	49	21.17	21.20	33	-11.8								
10	21100	2000	TOCAM	25	12	20.25	20.28	33	-12.72								
				50	0	20.29	20.32	33	-12.68								
				1	0	21.53	21.56	33	-11.44								
	21400	2565	16QAM	1	49	21.55	21.58	33	-11.42								
	21400	2000	TOQAM	25	12	20.51	20.54	33	-12.46								
				50	0	20.50	20.53	33	-12.47								
				1	0	20.20	20.23	33	-12.77								
	20800	2505	64QAM	1	49	20.12	20.15	33	-12.85								
	20000	2000		25	12	19.19	19.22	33	-13.78								
				50	0	19.19	19.22	33	-13.78								
				1	0	20.19	20.22	33	-12.78								
10	21100	2535	64QAM	1	49	20.15	20.18	33	-12.82								
10	21100	2000		25	12	19.26	19.29	33	-13.71								
				50	0	19.29	19.32	33	-13.68								
				1	0	20.50	20.53	33	-12.47								
	21400	2545	64000	1	49	20.56	20.59	33	-12.41								
	21400	2565	64QAM	25	12	19.56	19.59	33	-13.41								
				50	0	19.50	19.53	33	-13.47								

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Antenna	gain (dBi)	0.03																		
		LTE	Band 7_Uplin	ık frequ	ency ba	ind : 2500 to 2	2570 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	22.14	22.17	33	-10.83											
	20825	2507.5	QPSK	1	74	22.14	22.17	33	-10.83											
	20020	2007.0	QUOR	36	18	21.06	21.09	33	-11.91											
				75	0	21.14	21.17	33	-11.83											
				1	0	22.15	22.18	33	-10.82											
15	21100	2535	QPSK	1	74	22.23	22.26	33	-10.74											
15	21100	2000	QI SIX	36	18	21.19	21.22	33	-11.78											
				75	0	21.23	21.26	33	-11.74											
				1	0	22.59	22.62	33	-10.38											
	21375	2562.5	QPSK	1	74	22.49	22.52	33	-10.48											
	21373	2002.0		36	18	21.50	21.53	33	-11.47											
				75	0	21.57	21.60	33	-11.4											
				1	0	21.15	21.18	33	-11.82											
	20825	2507.5	160 \\	1	74	21.06	21.09	33	-11.91											
	20023	2507.5	2507.5	2507.5	2007.0	2507.5	2307.3	2307.3	2507.5	2507.5	2007.0	2307.3	2307.3	16QAM	36	18	20.10	20.13	33	-12.87
				75	0	20.07	20.10	33	-12.9											
			16QAM	1	0	21.28	21.31	33	-11.69											
15	21100	2535		1	74	21.24	21.27	33	-11.73											
10	21100	2000	TOQAM	36	18	20.21	20.24	33	-12.76											
				75	0	20.26	20.29	33	-12.71											
				1	0	21.52	21.55	33	-11.45											
	21375	2562.5	16QAM	1	74	21.50	21.53	33	-11.47											
	21375	2002.0	TOQAM	36	18	20.61	20.64	33	-12.36											
				75	0	20.55	20.58	33	-12.42											
				1	0	20.20	20.23	33	-12.77											
	20825	2507.5	64QAM	1	74	20.07	20.10	33	-12.9											
	20025	2007.0		36	18	19.20	19.23	33	-13.77											
				75	0	19.16	19.19	33	-13.81											
				1	0	20.18	20.21	33	-12.79											
15	21100	2525	640 004	1	74	20.29	20.32	33	-12.68											
15	21100	2535	64QAM	36	18	19.27	19.30	33	-13.7											
				75	0	19.23	19.26	33	-13.74											
				1	0	20.52	20.55	33	-12.45											
	21275			1	74	20.50	20.53	33	-12.47											
	21375	2562.5	64QAM	36	18	19.58	19.61	33	-13.39											
				75	0	19.58	19.61	33	-13.39											

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Antenna	gain (dBi)	0.03							
		LTE	Band 7_Uplin	k frequ	ency ba	ind : 2500 to 2	2570 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	22.22	22.25	33	-10.75
	20850	2510	QPSK	1	99	21.94	21.97	33	-11.03
				50	25	21.14	21.17	33	-11.83
				100	0	21.16	21.19	33	-11.81
				1	0	22.31	22.34	33	-10.66
20	21100	2535	QPSK	1	99	22.77	22.80	33	-10.2
20	21100	2000	er ort	50	25	21.93	21.96	33	-11.04
				100	0	21.83	21.86	33	-11.14
				1	0	22.64	22.67	33	-10.33
	21350	2560	QPSK	1	99	22.65	22.68	33	-10.32
		2000	QI SIX	50	25	21.76	21.79	33	-11.21
				100	0	21.76	21.79	33	-11.21
				1	0	21.10	21.13	33	-11.87
	20850	) 2510	QPSK	1	99	21.17	21.20	33	-11.8
	20850		UPSK	50	25	20.16	20.19	33	-12.81
			100	0	20.13	20.16	33	-12.84	
				1	0	21.18	21.21	33	-11.79
20	21100	2535	QPSK	1	99	21.16	21.19	33	-11.81
20	21100	2000	UFSK	50	25	20.25	20.28	33	-12.72
				100	0	20.17	20.20	33	-12.8
				1	0	21.55	21.58	33	-11.42
	21250	2540	ODCK	1	99	21.62	21.65	33	-11.35
	21350	2560	QPSK	50	25	20.48	20.51	33	-12.49
				100	0	20.62	20.65	33	-12.35
				1	0	20.17	20.20	33	-12.8
	20050	2510	ODCK	1	99	20.20	20.23	33	-12.77
	20850	2510	QPSK	50	25	19.18	19.21	33	-13.79
				100	0	19.14	19.17	33	-13.83
				1	0	20.19	20.22	33	-12.78
20	01100	2525	ODCK	1	99	20.16	20.19	33	-12.81
20	21100	2535	QPSK	50	25	19.24	19.27	33	-13.73
			100	0	19.16	19.19	33	-13.81	
				1	0	20.57	20.60	33	-12.4
	01050	25 ( 2	000	1	99	20.49	20.52	33	-12.48
	21350	2560	QPSK	50	25	19.53	19.56	33	-13.44
				100	0	19.58	19.61	33	-13.39

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Antenna	gain (dBi)	-3.9	Ţ							
		·	LTE Band	12_Upli	nk frequ	uency band :	699 to 716 MI	Hz		
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	22.98	16.93	19.08	34.77	-17.84
	23017	699.7	QPSK	1	5	22.92	16.87	19.02	34.77	-17.90
	23017	077.7	UI JK	3	2	22.94	16.89	19.04	34.77	-17.88
				6	0	21.94	15.89	18.04	34.77	-18.88
				1	0	23.13	17.08	19.23	34.77	-17.69
1.4	23095	707.5	QPSK	1	5	23.15	17.10	19.25	34.77	-17.67
1.4	23075	101.5	UF SK	3	2	23.02	16.97	19.12	34.77	-17.80
				6	0	22.13	16.08	18.23	34.77	-18.69
				1	0	23.15	17.10	19.25	34.77	-17.67
	23173	715.5	QPSK	1	5	23.10	17.05	19.20	34.77	-17.72
	23173	715.5	UFSK	3	2	23.11	17.06	19.21	34.77	-17.71
				6	0	22.09	16.04	18.19	34.77	-18.73
				1	0	21.96	15.91	18.06	34.77	-18.86
	23017	699.7	16QAM	1	5	21.96	15.91	18.06	34.77	-18.86
	23017	099.7	TOQAW	3	2	22.01	15.96	18.11	34.77	-18.81
				6	0	20.98	14.93	17.08	34.77	-19.84
				1	0	22.08	16.03	18.18	34.77	-18.74
1.4	23095	707.5	16QAM	1	5	22.06	16.01	18.16	34.77	-18.76
1.4	23075	101.5	TOCAM	3	2	22.15	16.10	18.25	34.77	-18.67
				6	0	21.10	15.05	17.20	34.77	-19.72
				1	0	22.16	16.11	18.26	34.77	-18.66
	23173	715.5	16QAM	1	5	22.21	16.16	18.31	34.77	-18.61
	23173	710.0	TOCAM	3	2	22.12	16.07	18.22	34.77	-18.70
				6	0	21.07	15.02	17.17	34.77	-19.75
				1	0	20.98	14.93	17.08	34.77	-19.84
	23017	699.7	64QAM	1	5	21.06	15.01	17.16	34.77	-19.76
	23017	099.7		3	2	20.92	14.87	17.02	34.77	-19.90
				6	0	20.02	13.97	16.12	34.77	-20.80
				1	0	21.16	15.11	17.26	34.77	-19.66
1.4	23095	707.5	64QAM	1	5	21.12	15.07	17.22	34.77	-19.70
1.4	20090	101.5		3	2	21.07	15.02	17.17	34.77	-19.75
				6	0	20.16	14.11	16.26	34.77	-20.66
				1	0	21.14	15.09	17.24	34.77	-19.68
	23173	715.5	64QAM	1	5	21.12	15.07	17.22	34.77	-19.70
	231/3	710.0		3	2	21.16	15.11	17.26	34.77	-19.66
				6	0	20.12	14.07	16.22	34.77	-20.70

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)	-3.9	Ţ							
			LTE Band	12_Upli	nk frequ	uency band :	699 to 716 MI	Ηz		
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	23.05	17.00	19.15	34.77	-17.77
	23025	700.5	QPSK	1	14	23.03	16.98	19.13	34.77	-17.79
	23023	700.5	QI JK	8	4	21.92	15.87	18.02	34.77	-18.90
				15	0	21.99	15.94	18.09	34.77	-18.83
				1	0	23.06	17.01	19.16	34.77	-17.76
3	23095	707.5	QPSK	1	14	23.02	16.97	19.12	34.77	-17.80
3	23095	707.5	UFSK	8	4	22.03	15.98	18.13	34.77	-18.79
				15	0	22.03	15.98	18.13	34.77	-18.79
				1	0	23.21	17.16	19.31	34.77	-17.61
	23165	714.5	QPSK	1	14	23.07	17.02	19.17	34.77	-17.75
	23100	714.0	UFSK	8	4	22.13	16.08	18.23	34.77	-18.69
				15	0	22.16	16.11	18.26	34.77	-18.66
				1	0	21.98	15.93	18.08	34.77	-18.84
	23025	700.5	16QAM	1	14	21.94	15.89	18.04	34.77	-18.88
	23025	700.5	TOQAW	8	4	20.98	14.93	17.08	34.77	-19.84
				15	0	21.06	15.01	17.16	34.77	-19.76
				1	0	22.03	15.98	18.13	34.77	-18.79
3	23095	707.5	16QAM	1	14	22.04	15.99	18.14	34.77	-18.78
3	23090	707.5	TOQAW	8	4	21.07	15.02	17.17	34.77	-19.75
				15	0	21.13	15.08	17.23	34.77	-19.69
				1	0	22.09	16.04	18.19	34.77	-18.73
	2214E	714 5	140 414	1	14	22.08	16.03	18.18	34.77	-18.74
	23165	714.5	16QAM	8	4	21.20	15.15	17.30	34.77	-19.62
				15	0	21.12	15.07	17.22	34.77	-19.70
				1	0	20.95	14.90	17.05	34.77	-19.87
	23025	700 F	64000	1	14	21.02	14.97	17.12	34.77	-19.80
	23020	700.5	64QAM	8	4	20.01	13.96	16.11	34.77	-20.81
				15	0	19.96	13.91	16.06	34.77	-20.86
				1	0	21.07	15.02	17.17	34.77	-19.75
3	2200E	707 5	64QAM	1	14	21.03	14.98	17.13	34.77	-19.79
3	23090	3095 707.5		8	4	20.06	14.01	16.16	34.77	-20.76
				15	0	20.05	14.00	16.15	34.77	-20.77
				1	0	21.14	15.09	17.24	34.77	-19.68
	23165	714.5	64QAM	1	14	21.12	15.07	17.22	34.77	-19.70
	23100	714.0		8	4	20.20	14.15	16.30	34.77	-20.62
				15	0	20.12	14.07	16.22	34.77	-20.70

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Antenna	gain (dBi)	-3.9	Ţ							
			LTE Band	12_Upli	ink frequ	uency band :	699 to 716 MI	Hz		
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	22.94	16.89	19.04	34.77	-17.88
	23035	701.5	QPSK	1	24	22.98	16.93	19.08	34.77	-17.84
	23033	701.5	QI SIX	12	6	21.94	15.89	18.04	34.77	-18.88
				25	0	22.00	15.95	18.10	34.77	-18.82
				1	0	23.16	17.11	19.26	34.77	-17.66
5	23095	707.5	QPSK	1	24	23.09	17.04	19.19	34.77	-17.73
5	23073	101.5		12	6	22.06	16.01	18.16	34.77	-18.76
				25	0	22.03	15.98	18.13	34.77	-18.79
				1	0	23.10	17.05	19.20	34.77	-17.72
	23155	713.5	QPSK	1	24	23.20	17.15	19.30	34.77	-17.62
	23133	713.5		12	6	22.12	16.07	18.22	34.77	-18.70
				25	0	22.21	16.16	18.31	34.77	-18.61
				1	0	22.04	15.99	18.14	34.77	-18.78
	23035	701.5	16QAM	1	24	21.93	15.88	18.03	34.77	-18.89
	23033	701.5	TOCAM	12	6	21.02	14.97	17.12	34.77	-19.80
				25	0	20.92	14.87	17.02	34.77	-19.90
				1	0	22.07	16.02	18.17	34.77	-18.75
5	23095	707.5	16QAM	1	24	22.03	15.98	18.13	34.77	-18.79
0	23073	101.5	1002/101	12	6	21.05	15.00	17.15	34.77	-19.77
				25	0	21.14	15.09	17.24	34.77	-19.68
				1	0	22.15	16.10	18.25	34.77	-18.67
	23155	713.5	16QAM	1	24	22.08	16.03	18.18	34.77	-18.74
	20100	/10.0	1002/101	12	6	21.21	15.16	17.31	34.77	-19.61
				25	0	21.19	15.14	17.29	34.77	-19.63
				1	0	20.95	14.90	17.05	34.77	-19.87
	23035	701.5	64QAM	1	24	21.05	15.00	17.15	34.77	-19.77
	20000	701.5	040710	12	6	20.04	13.99	16.14	34.77	-20.78
				25	0	19.92	13.87	16.02	34.77	-20.90
				1	0	21.12	15.07	17.22	34.77	-19.70
5	23095	707.5	64QAM	1	24	21.16	15.11	17.26	34.77	-19.66
J	23075	101.5		12	6	20.04	13.99	16.14	34.77	-20.78
				25	0	20.08	14.03	16.18	34.77	-20.74
				1	0	21.09	15.04	17.19	34.77	-19.73
	23155	713.5	64QAM	1	24	21.15	15.10	17.25	34.77	-19.67
	20100	713.3		12	6	20.20	14.15	16.30	34.77	-20.62
				25	0	20.15	14.10	16.25	34.77	-20.67

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Antenna	gain (dBi)	-3.9	Ţ							
			LTE Band	12_Upli	nk freq	uency band :	699 to 716 Mi	Hz		
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	23.08	17.03	19.18	34.77	-17.74
1	23060	704	QPSK	1	49	23.04	16.99	19.14	34.77	-17.78
1	23000	704		25	12	22.11	16.06	18.21	34.77	-18.71
1				50	0	22.22	16.17	18.32	34.77	-18.60
				1	0	23.18	17.13	19.28	34.77	-17.64
10	23095	707.5	QPSK	1	49	23.17	17.12	19.27	34.77	-17.65
10	23075	707.5	UF SK	25	12	22.21	16.16	18.31	34.77	-18.61
				50	0	22.18	16.13	18.28	34.77	-18.64
1				1	0	23.23	17.18	19.33	34.77	-17.59
1	23130	711	QPSK	1	49	23.14	17.09	19.24	34.77	-17.68
1	23130	/ 1 1	UFSK	25	12	22.22	16.17	18.32	34.77	-18.60
1				50	0	22.22	16.17	18.32	34.77	-18.60
				1	0	22.03	15.98	18.13	34.77	-18.79
	23060	704	16QAM	1	49	22.06	16.01	18.16	34.77	-18.76
	23000	704	TOQAW	25	12	21.01	14.96	17.11	34.77	-19.81
				50	0	20.95	14.90	17.05	34.77	-19.87
				1	0	22.09	16.04	18.19	34.77	-18.73
10	23095	707.5	16QAM	1	49	22.13	16.08	18.23	34.77	-18.69
10	23075	707.5	TOCAM	25	12	21.06	15.01	17.16	34.77	-19.76
				50	0	21.14	15.09	17.24	34.77	-19.68
				1	0	22.13	16.08	18.23	34.77	-18.69
	23130	711	16QAM	1	49	22.09	16.04	18.19	34.77	-18.73
	23130	/ 1 1	TOQAM	25	12	21.07	15.02	17.17	34.77	-19.75
				50	0	21.18	15.13	17.28	34.77	-19.64
				1	0	20.92	14.87	17.02	34.77	-19.90
	23060	704	64QAM	1	49	20.99	14.94	17.09	34.77	-19.83
	23000	704		25	12	19.96	13.91	16.06	34.77	-20.86
l .				50	0	19.95	13.90	16.05	34.77	-20.87
				1	0	21.05	15.00	17.15	34.77	-19.77
10	23095	707.5	64QAM	1	49	21.07	15.02	17.17	34.77	-19.75
ĨŬ	23090	707.5		25	12	20.03	13.98	16.13	34.77	-20.79
				50	0	20.02	13.97	16.12	34.77	-20.80
				1	0	21.10	15.05	17.20	34.77	-19.72
l .	23130	711	64QAM	1	49	21.12	15.07	17.22	34.77	-19.70
l .	23130	/ 1 1		25	12	20.08	14.03	16.18	34.77	-20.74
1				50	0	20.14	14.09	16.24	34.77	-20.68

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Antenna	gain (dBi)	-4.4											
			LTE Band	17_Upli	nk frequ	uency band :	704 to 716 Mi	Hz					
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	22.99	16.44	18.59	34.77	-18.33			
	23755	706.5	QPSK	1	24	23.09	16.54	18.69	34.77	-18.23			
	20700	700.5	QUOR	12	6	22.09	15.54	17.69	34.77	-19.23			
				25	0	22.07	15.52	17.67	34.77	-19.25			
				1	0	23.09	16.54	18.69	34.77	-18.23			
5	23790	710	QPSK	1	24	23.09	16.54	18.69	34.77	-18.23			
5	23770	710		12	6	22.14	15.59	17.74	34.77	-19.18			
				25	0	22.05	15.50	17.65	34.77	-19.27			
				1	0	23.04	16.49	18.64	34.77	-18.28			
	23825	713.5	QPSK	1	24	23.08	16.53	18.68	34.77	-18.24			
	23023	713.3	QI JK	12	6	22.07	15.52	17.67	34.77	-19.25			
				25	0	22.04	15.49	17.64	34.77	-19.28			
				1	0	22.12	15.57	17.72	34.77	-19.20			
	23755	706.5	16QAM	1	24	22.01	15.46	17.61	34.77	-19.31			
	23733	700.5	TOCAM	12	6	21.02	14.47	16.62	34.77	-20.30			
				25	0	21.07	14.52	16.67	34.77	-20.25			
				1	0	22.11	15.56	17.71	34.77	-19.21			
5	23790	710	710	710	710	16QAM	1	24	22.09	15.54	17.69	34.77	-19.23
5	23770	710	TUCAM	12	6	21.07	14.52	16.67	34.77	-20.25			
				25	0	21.08	14.53	16.68	34.77	-20.24			
				1	0	22.03	15.48	17.63	34.77	-19.29			
	23825	713.5	16QAM	1	24	22.00	15.45	17.60	34.77	-19.32			
	23023	713.3	TUCAM	12	6	21.07	14.52	16.67	34.77	-20.25			
				25	0	21.06	14.51	16.66	34.77	-20.26			
				1	0	21.06	14.51	16.66	34.77	-20.26			
	23755	706.5	64QAM	1	24	21.00	14.45	16.60	34.77	-20.32			
	23733	700.5		12	6	20.02	13.47	15.62	34.77	-21.30			
				25	0	20.08	13.53	15.68	34.77	-21.24			
				1	0	21.08	14.53	16.68	34.77	-20.24			
5	23790	710	64QAM	1	24	21.08	14.53	16.68	34.77	-20.24			
5	23170	/10		12	6	20.09	13.54	15.69	34.77	-21.23			
				25	0	20.14	13.59	15.74	34.77	-21.18			
				1	0	21.01	14.46	16.61	34.77	-20.31			
	23825	713.5	64QAM	1	24	21.04	14.49	16.64	34.77	-20.28			
	23025	713.3		12	6	20.00	13.45	15.60	34.77	-21.32			
				25	0	20.07	13.52	15.67	34.77	-21.25			

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Antenna	gain (dBi)	-4.4								
			LTE Band	17_Upli	ink frequ	uency band :	704 to 716 MI	Hz		
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	23.14	16.59	18.74	34.77	-18.18
	23780	709	QPSK	1	49	23.04	16.49	18.64	34.77	-18.28
	23700	107	UI JK	25	12	22.16	15.61	17.76	34.77	-19.16
				50	0	22.21	15.66	17.81	34.77	-19.11
				1	0	23.17	16.62	18.77	34.77	-18.15
10	23790	710	QPSK	1	49	23.08	16.53	18.68	34.77	-18.24
10	23770	/10	UF SK	25	12	22.19	15.64	17.79	34.77	-19.13
				50	0	22.13	15.58	17.73	34.77	-19.19
				1	0	23.16	16.61	18.76	34.77	-18.16
	23800	711	QPSK	1	49	23.12	16.57	18.72	34.77	-18.20
	23000	/ 1 1	UF SK	25	12	22.16	15.61	17.76	34.77	-19.16
				50	0	22.17	15.62	17.77	34.77	-19.15
				1	0	22.02	15.47	17.62	34.77	-19.30
	23780	709	16QAM	1	49	22.04	15.49	17.64	34.77	-19.28
	23700	709	TOQAM	25	12	21.06	14.51	16.66	34.77	-20.26
				50	0	21.00	14.45	16.60	34.77	-20.32
				1	0	22.03	15.48	17.63	34.77	-19.29
10	23790	710	16QAM	1	49	22.08	15.53	17.68	34.77	-19.24
10	23770	/10	TOCAM	25	12	21.05	14.50	16.65	34.77	-20.27
				50	0	21.11	14.56	16.71	34.77	-20.21
				1	0	22.09	15.54	17.69	34.77	-19.23
	23800	711	16QAM	1	49	22.06	15.51	17.66	34.77	-19.26
	23000	/ ! !	TOQAM	25	12	21.13	14.58	16.73	34.77	-20.19
				50	0	21.00	14.45	16.60	34.77	-20.32
				1	0	21.00	14.45	16.60	34.77	-20.32
	23780	709	64QAM	1	49	20.99	14.44	16.59	34.77	-20.33
	23700	709		25	12	20.11	13.56	15.71	34.77	-21.21
				50	0	19.99	13.44	15.59	34.77	-21.33
				1	0	21.13	14.58	16.73	34.77	-20.19
10	22700	710	64QAM	1	49	21.10	14.55	16.70	34.77	-20.22
10	10 23790 710		25	12	20.09	13.54	15.69	34.77	-21.23	
				50	0	20.02	13.47	15.62	34.77	-21.30
				1	0	21.03	14.48	16.63	34.77	-20.29
	23800	711	64QAM	1	49	21.02	14.47	16.62	34.77	-20.30
	23000	/ ! !		25	12	20.02	13.47	15.62	34.77	-21.30
				50	0	20.08	13.53	15.68	34.77	-21.24

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Antenna	gain (dBi)	0.36							
		LTE I	Band 25_Upli	nk frequ	lency b	and : 1850 to	1915 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	22.09	22.45	33	-10.55
	26047	1850.7	QPSK	1	5	22.14	22.50	33	-10.5
	20047	1030.7		3	2	22.02	22.38	33	-10.62
				6	0	21.02	21.38	33	-11.62
				1	0	22.23	22.59	33	-10.41
1.4	26365	1882.5	QPSK	1	5	22.27	22.63	33	-10.37
1.4	20303	1002.0		3	2	22.23	22.59	33	-10.41
				6	0	21.27	21.63	33	-11.37
				1	0	22.35	22.71	33	-10.29
	26683	1914.3	QPSK	1	5	22.33	22.69	33	-10.31
	20003	1714.5	QUOR	3	2	22.46	22.82	33	-10.18
				6	0	21.38	21.74	33	-11.26
				1	0	21.03	21.39	33	-11.61
	26047	1850.7	16QAM	1	5	21.01	21.37	33	-11.63
	20047	1030.7	TOCAM	3	2	21.00	21.36	33	-11.64
				6	0	20.03	20.39	33	-12.61
				1	0	21.25	21.61	33	-11.39
1.4	26365	1882.5	16QAM	1	5	21.31	21.67	33	-11.33
1.4	20305	1002.0	TOCAM	3	2	21.34	21.70	33	-11.3
				6	0	20.26	20.62	33	-12.38
				1	0	21.36	21.72	33	-11.28
	26683	1914.3	16QAM	1	5	21.40	21.76	33	-11.24
	20003	1914.3	TOQAM	3	2	21.37	21.73	33	-11.27
				6	0	20.37	20.73	33	-12.27
				1	0	20.12	20.48	33	-12.52
	26047	1850.7	64QAM	1	5	20.03	20.39	33	-12.61
	20047	1000.7		3	2	20.01	20.37	33	-12.63
				6	0	19.02	19.38	33	-13.62
				1	0	20.24	20.60	33	-12.4
1.4	26365	1882.5	64QAM	1	5	20.35	20.71	33	-12.29
1.4	20300	1002.3		3	2	20.30	20.66	33	-12.34
				6	0	19.30	19.66	33	-13.34
				1	0	20.37	20.73	33	-12.27
	26683	1914.3	64QAM	1	5	20.37	20.73	33	-12.27
	20083	1914.3	04QAW	3	2	20.33	20.69	33	-12.31
				6	0	19.36	19.72	33	-13.28

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f (886-2) 2298-0488
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Antenna	gain (dBi)	0.36							
		LTE I	Band 25_Uplii	nk frequ	lency b	and : 1850 to	1915 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	22.06	22.42	33	-10.58
	26055	1851.5	QPSK	1	14	22.03	22.39	33	-10.61
	20033	1001.0		8	4	21.00	21.36	33	-11.64
				15	0	20.98	21.34	33	-11.66
				1	0	22.21	22.57	33	-10.43
3	26365	1882.5	QPSK	1	14	22.33	22.69	33	-10.31
5	20303	1002.5		8	4	21.20	21.56	33	-11.44
				15	0	21.29	21.65	33	-11.35
				1	0	22.41	22.77	33	-10.23
	26675	1913.5	QPSK	1	14	22.41	22.77	33	-10.23
	20075	1713.5		8	4	21.41	21.77	33	-11.23
				15	0	21.30	21.66	33	-11.34
				1	0	21.00	21.36	33	-11.64
	26055	1851.5	16QAM	1	14	20.98	21.34	33	-11.66
	20055	1001.0	TOCAM	8	4	20.09	20.45	33	-12.55
				15	0	20.04	20.40	33	-12.6
				1	0	21.32	21.68	33	-11.32
3	26365	1882.5	16QAM	1	14	21.31	21.67	33	-11.33
3	20300	1002.0	TOQAM	8	4	20.24	20.60	33	-12.4
				15	0	20.33	20.69	33	-12.31
				1	0	21.38	21.74	33	-11.26
	26675	1913.5	16QAM	1	14	21.37	21.73	33	-11.27
	20075	1915.0	TOQAM	8	4	20.36	20.72	33	-12.28
				15	0	20.42	20.78	33	-12.22
				1	0	19.98	20.34	33	-12.66
	24055	10E1 E	64000	1	14	20.02	20.38	33	-12.62
	26055	1851.5	64QAM	8	4	19.05	19.41	33	-13.59
				15	0	19.11	19.47	33	-13.53
				1	0	20.19	20.55	33	-12.45
3	2624E	1882.5	640 004	1	14	20.25	20.61	33	-12.39
5	26365	1002.5	64QAM	8	4	19.26	19.62	33	-13.38
				15	0	19.19	19.55	33	-13.45
				1	0	20.33	20.69	33	-12.31
	2447E	1012 F	6400	1	14	20.34	20.70	33	-12.3
	26675	1913.5	64QAM	8	4	19.42	19.78	33	-13.22
				15	0	19.43	19.79	33	-13.21

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		LTE I	Band 25_Uplii	nk frequ	uency b	and : 1850 to	1915 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	22.04	22.40	33	-10.6
	26065	1852.5	QPSK	1	24	22.05	22.41	33	-10.59
	20000	1002.0	QI OK	12	6	21.03	21.39	33	-11.61
				25	0	21.09	21.45	33	-11.55
				1	0	22.25	22.61	33	-10.39
5	26365	1882.5	QPSK	1	24	22.26	22.62	33	-10.38
0	20000	1002.0	eron	12	6	21.33	21.69	33	-11.31
				25	0	21.29	21.65	33	-11.35
				1	0	22.40	22.76	33	-10.24
	26665	1912.5	QPSK	1	24	22.40	22.76	33	-10.24
	20003	1712.5	QUOK	12	6	21.31	21.67	33	-11.33
				25	0	21.43	21.79	33	-11.21
				1	0	21.00	21.36	33	-11.64
	26065	1852.5	16QAM	1	24	21.10	21.46	33	-11.54
	20003	1032.3	TUCAM	12	6	20.11	20.47	33	-12.53
				25	0	20.00	20.36	33	-12.64
				1	0	21.31	21.67	33	-11.33
5	26365	1882.5	16QAM	1	24	21.28	21.64	33	-11.36
5	20303	1002.5	TOCAM	12	6	20.27	20.63	33	-12.37
				25	0	20.25	20.61	33	-12.39
				1	0	21.36	21.72	33	-11.28
	26665	1912.5	16QAM	1	24	21.43	21.79	33	-11.21
	20003	1712.0	TOCAM	12	6	20.38	20.74	33	-12.26
				25	0	20.36	20.72	33	-12.28
				1	0	20.01	20.37	33	-12.63
	26065	1852.5	64QAM	1	24	20.04	20.40	33	-12.6
	20003	1032.3		12	6	19.02	19.38	33	-13.62
				25	0	19.00	19.36	33	-13.64
				1	0	20.25	20.61	33	-12.39
5	26365	1882.5	64QAM	1	24	20.20	20.56	33	-12.44
J	20303	1002.0		12	6	19.31	19.67	33	-13.33
				25	0	19.20	19.56	33	-13.44
				1	0	20.39	20.75	33	-12.25
	26665	1912.5	64QAM	1	24	20.32	20.68	33	-12.32
	20000	1712.J		12	6	19.42	19.78	33	-13.22
				25	0	19.43	19.79	33	-13.21

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		LTE I	Band 25_Uplii	nk frequ	uency b	and : 1850 to	1915 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	(dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.10	22.46	33	-10.54
	26090	1855	QPSK	1	49	21.98	22.34	33	-10.66
	20070			25	12	21.06	21.42	33	-11.58
				50	0	21.07	21.43	33	-11.57
				1	0	22.25	22.61	33	-10.39
10	26365	1882.5	QPSK	1	49	22.27	22.63	33	-10.37
10	20000	100210		25	12	21.26	21.62	33	-11.38
				50	0	21.33	21.69	33	-11.31
				1	0	22.37	22.73	33	-10.27
	26640	1910	QPSK	1	49	22.39	22.75	33	-10.25
	20010	1710	QUOR	25	12	21.36	21.72	33	-11.28
				50	0	21.33	21.69	33	-11.31
				1	0	21.04	21.40	33	-11.6
	26090	1855	16QAM	1	49	21.06	21.42	33	-11.58
	20070	1055	TOCAM	25	12	20.01	20.37	33	-12.63
				50	0	20.03	20.39	33	-12.61
				1	0	21.27	21.63	33	-11.37
10	26365	1882.5	16QAM	1	49	21.29	21.65	33	-11.35
10	20303	1002.5	TUCAM	25	12	20.27	20.63	33	-12.37
				50	0	20.20	20.56	33	-12.44
				1	0	21.31	21.67	33	-11.33
	26640	1910	16QAM	1	49	21.33	21.69	33	-11.31
	20040	1710	TOCAM	25	12	20.35	20.71	33	-12.29
				50	0	20.36	20.72	33	-12.28
				1	0	20.05	20.41	33	-12.59
	26090	1855	64QAM	1	49	20.07	20.43	33	-12.57
	20090	1000		25	12	19.08	19.44	33	-13.56
				50	0	19.10	19.46	33	-13.54
				1	0	20.19	20.55	33	-12.45
10	26365	1882.5	64QAM	1	49	20.28	20.64	33	-12.36
IU	20300	1002.3		25	12	19.33	19.69	33	-13.31
				50	0	19.32	19.68	33	-13.32
				1	0	20.38	20.74	33	-12.26
	24440	1910	6400	1	49	20.42	20.78	33	-12.22
	26640	1410	64QAM	25	12	19.34	19.70	33	-13.3
				50	0	19.35	19.71	33	-13.29

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		LTE I	Band 25_Upli	nk frequ	uency b	and : 1850 to	1915 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	22.44	33	-10.56
	26115	1857.5	QPSK	1	74	22.02	22.38	33	-10.62
	20110	1007.0	QI OK	36	18	21.11	21.47	33	-11.53
				75	0	21.08	21.44	33	-11.56
				1	0	22.19	22.55	33	-10.45
15	26365	1882.5	QPSK	1	74	22.21	22.57	33	-10.43
15	20303	1002.5		36	18	21.23	21.59	33	-11.41
				75	0	21.28	21.64	33	-11.36
				1	0	22.36	22.72	33	-10.28
	26615	1907.5	QPSK	1	74	22.38	22.74	33	-10.26
	20015	1907.5	UFSK	36	18	21.37	21.73	33	-11.27
				75	0	21.39	21.75	33	-11.25
				1	0	21.03	21.39	33	-11.61
	0411E	10E7 E	140 414	1	74	21.03	21.39	33	-11.61
	26115	1857.5	16QAM	36	18	20.02	20.38	33	-12.62
				75	0	20.02	20.38	33	-12.62
				1	0	21.19	21.55	33	-11.45
15	2424E	1000 F	140 414	1	74	21.33	21.69	33	-11.31
15	26365	1882.5	16QAM	36	18	20.19	20.55	33	-12.45
				75	0	20.24	20.60	33	-12.4
				1	0	21.43	21.79	33	-11.21
	27715	1007 F	1/0 414	1	74	21.34	21.70	33	-11.3
	26615	1907.5	16QAM	36	18	20.38	20.74	33	-12.26
				75	0	20.31	20.67	33	-12.33
				1	0	20.04	20.40	33	-12.6
	0411F	10575		1	74	20.08	20.44	33	-12.56
	26115	1857.5	64QAM	36	18	19.03	19.39	33	-13.61
				75	0	19.01	19.37	33	-13.63
				1	0	20.30	20.66	33	-12.34
15	2/2/5	1000 5		1	74	20.32	20.68	33	-12.32
15	26365	1882.5	64QAM	36	18	19.27	19.63	33	-13.37
				75	0	19.21	19.57	33	-13.43
				1	0	20.37	20.73	33	-12.27
	0//45	1007 5		1	74	20.39	20.75	33	-12.25
	26615	1907.5	64QAM	36	18	19.32	19.68	33	-13.32
				75	0	19.37	19.73	33	-13.27

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		LTE	Band 25_Uplii	nk frequ	uency b	and : 1850 to	1915 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	22.14	22.50	33	-10.5
	26140	1860	QPSK	1	99	22.16	22.52	33	-10.48
	20110	1000	er ort	50	25	21.29	21.65	33	-11.35
				100	0	21.28	21.64	33	-11.36
				1	0	22.35	22.71	33	-10.29
20	26365	1882.5	QPSK	1	99	22.36	22.72	33	-10.28
20	20000	1002.0	eron	50	25	21.48	21.84	33	-11.16
				100	0	21.46	21.82	33	-11.18
				1	0	22.46	22.82	33	-10.18
	26590	1905	QPSK	1	99	22.39	22.75	33	-10.25
	20370	1705	QI SIX	50	25	21.59	21.95	33	-11.05
				100	0	21.52	21.88	33	-11.12
				1	0	21.00	21.36	33	-11.64
	26140	1860	16QAM	1	99	21.01	21.37	33	-11.63
	20140	1000	TOCAM	50	25	20.07	20.43	33	-12.57
				100	0	20.02	20.38	33	-12.62
				1	0	21.27	21.63	33	-11.37
20	26365	1882.5	16QAM	1	99	21.26	21.62	33	-11.38
20	20303	1002.0	TOQAM	50	25	20.25	20.61	33	-12.39
				100	0	20.28	20.64	33	-12.36
				1	0	21.44	21.80	33	-11.2
	26590	1905	16QAM	1	99	21.40	21.76	33	-11.24
	20090	1900	TOQAW	50	25	20.42	20.78	33	-12.22
				100	0	20.38	20.74	33	-12.26
				1	0	20.00	20.36	33	-12.64
	24140	1040		1	99	20.12	20.48	33	-12.52
	26140	1860	64QAM	50	25	19.04	19.40	33	-13.6
				100	0	19.03	19.39	33	-13.61
				1	0	20.32	20.68	33	-12.32
20	0404E	1000 F		1	99	20.20	20.56	33	-12.44
20	26365	1882.5	64QAM	50	25	19.19	19.55	33	-13.45
				100	0	19.22	19.58	33	-13.42
				1	0	20.38	20.74	33	-12.26
	2/500	1005		1	99	20.42	20.78	33	-12.22
	26590	1905	64QAM	50	25	19.34	19.70	33	-13.3
				100	0	19.38	19.74	33	-13.26

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Antenna	gain (dBi)	-5.7								
			LTE Band	26_Upli	ink frequ	uency band :	824 to 849 MI	Hz		
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	23.22	15.37	17.52	38.45	-23.08
	26797	824.7	QPSK	1	5	23.20	15.35	17.50	38.45	-23.10
	20777	024.7	UF SK	3	2	23.28	15.43	17.58	38.45	-23.02
				6	0	22.29	14.44	16.59	38.45	-24.01
				1	0	23.10	15.25	17.40	38.45	-23.20
1.4	26915	836.5	QPSK	1	5	23.01	15.16	17.31	38.45	-23.29
1.4	20915	030.3	UFJK	3	2	23.17	15.32	17.47	38.45	-23.13
				6	0	22.21	14.36	16.51	38.45	-24.09
				1	0	22.81	14.96	17.11	38.45	-23.49
	27033	848.3	QPSK	1	5	22.76	14.91	17.06	38.45	-23.54
	27033	040.3	UFSK	3	2	22.78	14.93	17.08	38.45	-23.52
				6	0	21.92	14.07	16.22	38.45	-24.38
				1	0	22.55	14.70	16.85	38.45	-23.75
	26797	824.7	16QAM	1	5	22.57	14.72	16.87	38.45	-23.73
	20/9/	024.7	TOQAW	3	2	22.38	14.53	16.68	38.45	-23.92
				6	0	21.47	13.62	15.77	38.45	-24.83
				1	0	22.49	14.64	16.79	38.45	-23.81
1.4	26915	836.5	16QAM	1	5	22.31	14.46	16.61	38.45	-23.99
1.4	20915	030.3	TOQAW	3	2	22.23	14.38	16.53	38.45	-24.07
				6	0	21.30	13.45	15.60	38.45	-25.00
				1	0	22.03	14.18	16.33	38.45	-24.27
	27033	848.3	16QAM	1	5	21.81	13.96	16.11	38.45	-24.49
	27033	040.3	TOQAW	3	2	21.94	14.09	16.24	38.45	-24.36
				6	0	20.94	13.09	15.24	38.45	-25.36
				1	0	21.32	13.47	15.62	38.45	-24.98
	26797	824.7	64QAM	1	5	20.21	12.36	14.51	38.45	-26.09
	20797	024.7		3	2	20.50	12.65	14.80	38.45	-25.80
				6	0	18.32	10.47	12.62	38.45	-27.98
				1	0	21.36	13.51	15.66	38.45	-24.94
1.4	26915	836.5	64QAM	1	5	20.27	12.42	14.57	38.45	-26.03
1.4	20910	030.3	04QAW	3	2	20.18	12.33	14.48	38.45	-26.12
				6	0	18.21	10.36	12.51	38.45	-28.09
				1	0	21.12	13.27	15.42	38.45	-25.18
	27033	848.3	64QAM	1	5	21.03	13.18	15.33	38.45	-25.27
	21033	040.3	04QAW	3	2	21.09	13.24	15.39	38.45	-25.21
				6	0	19.95	12.10	14.25	38.45	-26.35

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)	-5.7	Ţ							
			LTE Band	26_Upli	ink frequ	uency band :	824 to 849 MI	Ηz		
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	23.34	15.49	17.64	38.45	-22.96
	26805	825.5	QPSK	1	14	23.29	15.44	17.59	38.45	-23.01
	20003	023.3	QI JK	8	4	22.47	14.62	16.77	38.45	-23.83
				15	0	22.37	14.52	16.67	38.45	-23.93
				1	0	23.23	15.38	17.53	38.45	-23.07
3	26915	836.5	QPSK	1	14	23.14	15.29	17.44	38.45	-23.16
5	20915	030.0	UFSK	8	4	22.27	14.42	16.57	38.45	-24.03
				15	0	22.24	14.39	16.54	38.45	-24.06
				1	0	23.00	15.15	17.30	38.45	-23.30
	27025	847.5	QPSK	1	14	22.90	15.05	17.20	38.45	-23.40
	27025	047.0	UFSK	8	4	22.00	14.15	16.30	38.45	-24.30
				15	0	22.02	14.17	16.32	38.45	-24.28
				1	0	22.49	14.64	16.79	38.45	-23.81
	26805	825.5	16QAM	1	14	22.83	14.98	17.13	38.45	-23.47
	20600	020.0	TOQAW	8	4	21.56	13.71	15.86	38.45	-24.74
				15	0	21.43	13.58	15.73	38.45	-24.87
				1	0	22.38	14.53	16.68	38.45	-23.92
3	26915	836.5	16QAM	1	14	22.38	14.53	16.68	38.45	-23.92
5	20715	030.5	TOCAM	8	4	21.40	13.55	15.70	38.45	-24.90
				15	0	21.26	13.41	15.56	38.45	-25.04
				1	0	22.31	14.46	16.61	38.45	-23.99
	27025	847.5	16QAM	1	14	21.69	13.84	15.99	38.45	-24.61
	27025	047.0	TOQAM	8	4	21.15	13.30	15.45	38.45	-25.15
				15	0	21.05	13.20	15.35	38.45	-25.25
				1	0	21.60	13.75	15.90	38.45	-24.70
	26805	825.5	64QAM	1	14	21.38	13.53	15.68	38.45	-24.92
	20000	020.0		8	4	20.44	12.59	14.74	38.45	-25.86
				15	0	20.37	12.52	14.67	38.45	-25.93
				1	0	21.52	13.67	15.82	38.45	-24.78
3	26915	836.5	64QAM	1	14	20.99	13.14	15.29	38.45	-25.31
3	20910	030.3		8	4	20.27	12.42	14.57	38.45	-26.03
				15	0	20.16	12.31	14.46	38.45	-26.14
				1	0	21.01	13.16	15.31	38.45	-25.29
	27025	847.5	64QAM	1	14	20.95	13.10	15.25	38.45	-25.35
	27020	047.0		8	4	20.12	12.27	14.42	38.45	-26.18
				15	0	20.12	12.27	14.42	38.45	-26.18

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Antenna	gain (dBi)	-5.7								
			LTE Band	26_Upli	nk freq	uency band :	824 to 849 MI	Hz		
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	23.33	15.48	17.63	38.45	-22.97
	26815	826.5	QPSK	1	24	23.32	15.47	17.62	38.45	-22.98
	20015	020.3	UF SK	12	6	22.46	14.61	16.76	38.45	-23.84
				25	0	22.42	14.57	16.72	38.45	-23.88
				1	0	23.18	15.33	17.48	38.45	-23.12
5	26915	836.5	QPSK	1	24	23.07	15.22	17.37	38.45	-23.23
5	20915	030.3	UFSK	12	6	22.30	14.45	16.60	38.45	-24.00
				25	0	22.20	14.35	16.50	38.45	-24.10
				1	0	23.05	15.20	17.35	38.45	-23.25
	27015	846.5	QPSK	1	24	22.92	15.07	17.22	38.45	-23.38
	27015	040.0	UFSK	12	6	22.10	14.25	16.40	38.45	-24.20
				25	0	22.03	14.18	16.33	38.45	-24.27
				1	0	22.56	14.71	16.86	38.45	-23.74
	26815	826.5	16QAM	1	24	22.34	14.49	16.64	38.45	-23.96
	20010	020.0	TOQAW	12	6	21.53	13.68	15.83	38.45	-24.77
				25	0	21.43	13.58	15.73	38.45	-24.87
				1	0	22.69	14.84	16.99	38.45	-23.61
5	26915	836.5	16QAM	1	24	22.39	14.54	16.69	38.45	-23.91
5	20713	030.3	TOCAN	12	6	21.27	13.42	15.57	38.45	-25.03
				25	0	21.29	13.44	15.59	38.45	-25.01
				1	0	22.36	14.51	16.66	38.45	-23.94
	27015	846.5	16QAM	1	24	22.27	14.42	16.57	38.45	-24.03
	27015	040.0	TOQAW	12	6	21.07	13.22	15.37	38.45	-25.23
				25	0	21.05	13.20	15.35	38.45	-25.25
				1	0	20.84	12.99	15.14	38.45	-25.46
	26815	826.5	64QAM	1	24	21.36	13.51	15.66	38.45	-24.94
	20015	020.3		12	6	20.54	12.69	14.84	38.45	-25.76
				25	0	20.36	12.51	14.66	38.45	-25.94
				1	0	21.45	13.60	15.75	38.45	-24.85
5	26915	836.5	64QAM	1	24	21.29	13.44	15.59	38.45	-25.01
U	20713	030.0		12	6	20.37	12.52	14.67	38.45	-25.93
				25	0	20.23	12.38	14.53	38.45	-26.07
				1	0	21.21	13.36	15.51	38.45	-25.09
	27015	846.5	64QAM	1	24	21.33	13.48	15.63	38.45	-24.97
	27015	040.0		12	6	20.10	12.25	14.40	38.45	-26.20
				25	0	20.07	12.22	14.37	38.45	-26.23

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Antenna	gain (dBi)	-5.7								
			LTE Band	26_Upli	nk frequ	uency band :	824 to 849 MI	Hz		
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	23.29	15.44	17.59	38.45	-23.01
	26840	829	QPSK	1	49	23.18	15.33	17.48	38.45	-23.12
	20040	027	UF SK	25	12	22.43	14.58	16.73	38.45	-23.87
				50	0	22.40	14.55	16.70	38.45	-23.90
				1	0	23.27	15.42	17.57	38.45	-23.03
10	26915	836.5	QPSK	1	49	23.30	15.45	17.60	38.45	-23.00
10	20915	030.3	UFSK	25	12	22.26	14.41	16.56	38.45	-24.04
				50	0	22.35	14.50	16.65	38.45	-23.95
				1	0	22.98	15.13	17.28	38.45	-23.32
	26990	844	QPSK	1	49	22.86	15.01	17.16	38.45	-23.44
	20990	044	UPSK	25	12	22.09	14.24	16.39	38.45	-24.21
				50	0	22.15	14.30	16.45	38.45	-24.15
				1	0	22.40	14.55	16.70	38.45	-23.90
	26840	829	16QAM	1	49	22.74	14.89	17.04	38.45	-23.56
	20040	029	TOQAW	25	12	21.31	13.46	15.61	38.45	-24.99
				50	0	21.35	13.50	15.65	38.45	-24.95
				1	0	22.40	14.55	16.70	38.45	-23.90
10	26915	836.5	16QAM	1	49	22.35	14.50	16.65	38.45	-23.95
10	20910	030.0	TOQAW	25	12	21.22	13.37	15.52	38.45	-25.08
				50	0	21.21	13.36	15.51	38.45	-25.09
				1	0	22.41	14.56	16.71	38.45	-23.89
	26990	844	16QAM	1	49	22.29	14.44	16.59	38.45	-24.01
	20990	044	TOQAW	25	12	21.12	13.27	15.42	38.45	-25.18
				50	0	21.10	13.25	15.40	38.45	-25.20
				1	0	21.37	13.52	15.67	38.45	-24.93
	26840	829	64QAM	1	49	21.44	13.59	15.74	38.45	-24.86
	20040	027		25	12	20.48	12.63	14.78	38.45	-25.82
				50	0	20.42	12.57	14.72	38.45	-25.88
				1	0	21.41	13.56	15.71	38.45	-24.89
10	26915	836.5	64QAM	1	49	21.23	13.38	15.53	38.45	-25.07
10	20713	030.0		25	12	20.32	12.47	14.62	38.45	-25.98
				50	0	20.29	12.44	14.59	38.45	-26.01
				1	0	21.20	13.35	15.50	38.45	-25.10
	26990	844	64QAM	1	49	21.17	13.32	15.47	38.45	-25.13
	20990	044		25	12	20.09	12.24	14.39	38.45	-26.21
				50	0	20.06	12.21	14.36	38.45	-26.24

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Antenna	gain (dBi)	-5.7								
			LTE Band	26_Upli	ink frequ	uency band :	824 to 849 MI	Hz		
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	23.21	15.36	17.51	38.45	-23.09
	26865	831.5	QPSK	1	74	22.83	14.98	17.13	38.45	-23.47
	20005	031.3	UF 3K	36	18	22.28	14.43	16.58	38.45	-24.02
				75	0	22.26	14.41	16.56	38.45	-24.04
				1	0	23.11	15.26	17.41	38.45	-23.19
15	26915	836.5	QPSK	1	74	22.83	14.98	17.13	38.45	-23.47
15	20915	030.3	UFSK	36	18	22.23	14.38	16.53	38.45	-24.07
				75	0	22.17	14.32	16.47	38.45	-24.13
				1	0	23.24	15.39	17.54	38.45	-23.06
	26965	841.5	QPSK	1	74	22.73	14.88	17.03	38.45	-23.57
	20900	041.0	UPSK	36	18	22.11	14.26	16.41	38.45	-24.19
				75	0	22.10	14.25	16.40	38.45	-24.20
				1	0	22.50	14.65	16.80	38.45	-23.80
	26865	831.5	16QAM	1	74	22.18	14.33	16.48	38.45	-24.12
	20000	031.3	TOQAW	36	18	21.30	13.45	15.60	38.45	-25.00
				75	0	21.16	13.31	15.46	38.45	-25.14
				1	0	22.58	14.73	16.88	38.45	-23.72
15	26915	836.5	16QAM	1	74	22.28	14.43	16.58	38.45	-24.02
15	20915	030.3	TOQAW	36	18	21.26	13.41	15.56	38.45	-25.04
				75	0	21.20	13.35	15.50	38.45	-25.10
				1	0	22.35	14.50	16.65	38.45	-23.95
	26965	841.5	16QAM	1	74	21.91	14.06	16.21	38.45	-24.39
	20905	041.3	TOQAW	36	18	21.08	13.23	15.38	38.45	-25.22
				75	0	21.17	13.32	15.47	38.45	-25.13
				1	0	21.28	13.43	15.58	38.45	-25.02
	26865	831.5	64QAM	1	74	21.10	13.25	15.40	38.45	-25.20
	20005	031.3		36	18	20.35	12.50	14.65	38.45	-25.95
				75	0	20.21	12.36	14.51	38.45	-26.09
				1	0	21.41	13.56	15.71	38.45	-24.89
15	26915	836.5	64QAM	1	74	21.05	13.20	15.35	38.45	-25.25
10	20910	030.3	04QAW	36	18	20.24	12.39	14.54	38.45	-26.06
				75	0	20.20	12.35	14.50	38.45	-26.10
				1	0	21.20	13.35	15.50	38.45	-25.10
	26965	841.5	64QAM	1	74	20.98	13.13	15.28	38.45	-25.32
	20900	041.0	04QAW	36	18	20.16	12.31	14.46	38.45	-26.14
				75	0	20.11	12.26	14.41	38.45	-26.19

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Antenna	gain (dBi)	-7.2								
		Pa	rt 90S_LTE B	Band 26	_Uplink	frequency ba	nd : 814 to 82	24 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	23.30	13.95	16.10	50	-36.05
	26697	814.7	QPSK	1	5	23.29	13.94	16.09	50	-36.06
	20077	014.7	QI SIX	3	2	23.35	14.00	16.15	50	-36.00
				6	0	22.50	13.15	15.30	50	-36.85
				1	0	23.25	13.90	16.05	50	-36.10
1.4	26740	819	QPSK	1	5	23.28	13.93	16.08	50	-36.07
1.4	20740	017	QI JK	3	2	23.31	13.96	16.11	50	-36.04
				6	0	22.32	12.97	15.12	50	-37.03
				1	0	23.24	13.89	16.04	50	-36.11
	26783	823.3	QPSK	1	5	23.17	13.82	15.97	50	-36.18
	20703	023.5		3	2	23.31	13.96	16.11	50	-36.04
				6	0	22.33	12.98	15.13	50	-37.02
				1	0	22.75	13.40	15.55	50	-36.60
	26697	814.7	16QAM	1	5	22.63	13.28	15.43	50	-36.72
	20077	014.7	TUCAM	3	2	22.39	13.04	15.19	50	-36.96
				6	0	21.54	12.19	14.34	50	-37.81
				1	0	22.30	12.95	15.10	50	-37.05
1.4	26740	819	16QAM	1	5	22.70	13.35	15.50	50	-36.65
1.4	20740	017	TUCAM	3	2	22.41	13.06	15.21	50	-36.94
				6	0	21.45	12.10	14.25	50	-37.90
				1	0	22.56	13.21	15.36	50	-36.79
	26783	823.3	16QAM	1	5	22.44	13.09	15.24	50	-36.91
	20703	023.3	TUCAM	3	2	22.27	12.92	15.07	50	-37.08
				6	0	21.46	12.11	14.26	50	-37.89
				1	0	21.27	11.92	14.07	50	-38.08
	26697	814.7	64QAM	1	5	21.28	11.93	14.08	50	-38.07
	20077	014.7		3	2	21.51	12.16	14.31	50	-37.84
				6	0	20.38	11.03	13.18	50	-38.97
				1	0	21.51	12.16	14.31	50	-37.84
1.4	26740	819	64QAM	1	5	21.37	12.02	14.17	50	-37.98
1.4	20740	017		3	2	21.49	12.14	14.29	50	-37.86
				6	0	20.28	10.93	13.08	50	-39.07
				1	0	21.69	12.34	14.49	50	-37.66
	26783	823.3	64QAM	1	5	21.19	11.84	13.99	50	-38.16
	20703	023.3		3	2	21.49	12.14	14.29	50	-37.86
				6	0	20.32	10.97	13.12	50	-39.03

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Antenna	gain (dBi)	-7.2								
		Pa	nt 90S_LTE B	Band 26	_Uplink	frequency ba	ind : 814 to 82	24 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	23.39	14.04	16.19	50	-35.96
	26705	815.5	QPSK	1	14	23.32	13.97	16.12	50	-36.03
	20703	010.0	UF SK	8	4	22.40	13.05	15.20	50	-36.95
				15	0	22.55	13.20	15.35	50	-36.80
				1	0	23.41	14.06	16.21	50	-35.94
3	26740	819	QPSK	1	14	23.32	13.97	16.12	50	-36.03
3	20740	019	UPSK	8	4	22.48	13.13	15.28	50	-36.87
				15	0	22.49	13.14	15.29	50	-36.86
				1	0	23.27	13.92	16.07	50	-36.08
	26775 822.5		QPSK	1	14	23.30	13.95	16.10	50	-36.05
	20775	022.0	UPSK	8	4	22.50	13.15	15.30	50	-36.85
				15	0	22.48	13.13	15.28	50	-36.87
				1	0	22.71	13.36	15.51	50	-36.64
	26705	815.5	160 000	1	14	22.64	13.29	15.44	50	-36.71
	20705		16QAM	8	4	21.51	12.16	14.31	50	-37.84
				15	0	21.51	12.16	14.31	50	-37.84
				1	0	22.74	13.39	15.54	50	-36.61
3	26740	819	16QAM	1	14	22.72	13.37	15.52	50	-36.63
3	20740	019	TOQAW	8	4	21.55	12.20	14.35	50	-37.80
				15	0	21.46	12.11	14.26	50	-37.89
				1	0	22.48	13.13	15.28	50	-36.87
	26775	822.5	16QAM	1	14	22.54	13.19	15.34	50	-36.81
	20775	022.0	TOQAW	8	4	21.42	12.07	14.22	50	-37.93
				15	0	21.46	12.11	14.26	50	-37.89
				1	0	21.37	12.02	14.17	50	-37.98
	26705	815.5	64QAM	1	14	21.45	12.10	14.25	50	-37.90
	20705	010.0	04QAW	8	4	20.60	11.25	13.40	50	-38.75
				15	0	20.59	11.24	13.39	50	-38.76
				1	0	21.64	12.29	14.44	50	-37.71
2	26740	819	64QAM	1	14	21.65	12.30	14.45	50	-37.70
3	3 26740	019	04QAW	8	4	20.57	11.22	13.37	50	-38.78
				15	0	20.52	11.17	13.32	50	-38.83
				1	0	20.66	11.31	13.46	50	-38.69
	26775	822.5	64QAM	1	14	21.62	12.27	14.42	50	-37.73
	26775	0ZZ.3	04QAW	8	4	20.52	11.17	13.32	50	-38.83
				15	0	20.42	11.07	13.22	50	-38.93

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Antenna	gain (dBi)	-7.2								
		Pa	nt 90S_LTE B	Band 26	_Uplink	frequency ba	ind : 814 to 82	24 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	23.45	14.10	16.25	50	-35.90
	26715	816.5	QPSK	1	24	23.32	13.97	16.12	50	-36.03
	20715	010.5	UF SK	12	6	22.55	13.20	15.35	50	-36.80
				25	0	22.49	13.14	15.29	50	-36.86
				1	0	23.34	13.99	16.14	50	-36.01
5	26740	819	QPSK	1	24	23.41	14.06	16.21	50	-35.94
5	20740	019	UPSK	12	6	22.54	13.19	15.34	50	-36.81
				25	0	22.45	13.10	15.25	50	-36.90
				1	0	23.28	13.93	16.08	50	-36.07
	24745	821.5	QPSK	1	24	23.32	13.97	16.12	50	-36.03
	26765	621.S	UPSK	12	6	22.43	13.08	15.23	50	-36.92
				25	0	22.51	13.16	15.31	50	-36.84
				1	0	22.77	13.42	15.57	50	-36.58
	26715	816.5	16QAM	1	24	22.61	13.26	15.41	50	-36.74
				12	6	21.58	12.23	14.38	50	-37.77
				25	0	21.60	12.25	14.40	50	-37.75
				1	0	22.72	13.37	15.52	50	-36.63
5	26740	819	16QAM	1	24	22.59	13.24	15.39	50	-36.76
5	20740	019	TOQAW	12	6	21.45	12.10	14.25	50	-37.90
				25	0	21.46	12.11	14.26	50	-37.89
				1	0	22.68	13.33	15.48	50	-36.67
	26765	821.5	16QAM	1	24	22.75	13.40	15.55	50	-36.60
	20705	021.3	TOQAW	12	6	21.47	12.12	14.27	50	-37.88
				25	0	21.30	11.95	14.10	50	-38.05
				1	0	21.61	12.26	14.41	50	-37.74
	26715	816.5	64QAM	1	24	21.27	11.92	14.07	50	-38.08
	20713	010.0	04QAW	12	6	20.57	11.22	13.37	50	-38.78
				25	0	20.49	11.14	13.29	50	-38.86
				1	0	21.54	12.19	14.34	50	-37.81
E	26740	819	64QAM	1	24	21.44	12.09	14.24	50	-37.91
Э	5 26740	019	04QAW	12	6	20.55	11.20	13.35	50	-38.80
				25	0	20.43	11.08	13.23	50	-38.92
				1	0	21.53	12.18	14.33	50	-37.82
	26765	821.5	64QAM	1	24	21.14	11.79	13.94	50	-38.21
	20700	021.0		12	6	20.54	11.19	13.34	50	-38.81
				25	0	20.53	11.18	13.33	50	-38.82

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Antenna	gain (dBi)	-7.2								
		Pa	rt 90S_LTE B	and 26	_Uplink	frequency ba	ind : 814 to 82	24 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	23.44	14.09	16.24	50	-35.91
10	26740	819	QPSK	1	49	23.32	13.97	16.12	50	-36.03
10	10 20740 619	019	QPSK	25	12	22.55	13.20	15.35	50	-36.80
				50	0	22.40	13.05	15.20	50	-36.95
				1	0	22.58	13.23	15.38	50	-36.77
10	26740	819	16QAM	1	49	22.77	13.42	15.57	50	-36.58
10	20740	017	TOCAM	25	12	21.55	12.20	14.35	50	-37.80
				50	0	21.48	12.13	14.28	50	-37.87
				1	0	21.32	11.97	14.12	50	-38.03
10	10 26740	819	640AM	1	49	21.41	12.06	14.21	50	-37.94
10		819	64QAM	25	12	20.45	11.10	13.25	50	-38.90
				50	0	20.51	11.16	13.31	50	-38.84

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Antenna	gain (dBi)	-1.61							
		LTE I	Band 30_Uplii	nk frequ	iency b	and : 2305 to	2315 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/5MHz)	EIRP Average (dBm/5MHz)	EIRP Limit (dBm/5MHz)	Margin (dB)
				1	0	22.19	20.58	24	-3.42
	27685	2307.5	QPSK	1	24	22.23	20.62	24	-3.38
	27000	2007.0	er ort	12	6	21.24	19.63	24	-4.37
				25	0	21.21	19.60	24	-4.4
				1	0	22.23	20.62	24	-3.38
5	27710	2310	QPSK	1	24	22.15	20.54	24	-3.46
J. J	27710	2010		12	6	21.26	19.65	24	-4.35
				25	0	21.21	19.60	24	-4.4
				1	0	22.25	20.64	24	-3.36
	27735	2312.5	QPSK	1	24	22.26	20.65	24	-3.35
	27700	201210		12	6	21.23	19.62	24	-4.38
				25	0	21.17	19.56	24	-4.44
				1	0	21.22	19.61	24	-4.39
	27685 2307.5	2307.5	16QAM	1	24	21.25	19.64	24	-4.36
		2007.0		12	6	20.26	18.65	24	-5.35
				25	0	20.14	18.53	24	-5.47
				1	0	21.18	19.57	24	-4.43
5	27710	2310	16QAM	1	24	21.23	19.62	24	-4.38
0	27710	2010	1001111	12	6	20.18	18.57	24	-5.43
				25	0	20.25	18.64	24	-5.36
				1	0	21.14	19.53	24	-4.47
	27735	2312.5	16QAM	1	24	21.24	19.63	24	-4.37
	21133	2012.0	100/101	12	6	20.17	18.56	24	-5.44
				25	0	20.13	18.52	24	-5.48
				1	0	20.25	18.64	24	-5.36
	27685	2307.5	64QAM	1	24	20.19	18.58	24	-5.42
	27000	2007.0	010/101	12	6	19.22	17.61	24	-6.39
				25	0	19.21	17.60	24	-6.4
				1	0	20.17	18.56	24	-5.44
5	5 27710 2310	64QAM	1	24	20.14	18.53	24	-5.47	
5			12	6	19.23	17.62	24	-6.38	
				25	0	19.19	17.58	24	-6.42
			1	0	20.23	18.62	24	-5.38	
	27735	2312.5	64QAM	1	24	20.20	18.59	24	-5.41
	21133	2012.0		12	6	19.23	17.62	24	-6.38
				25	0	19.24	17.63	24	-6.37

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Antenna	gain (dBi)	-1.61								
		LTE E	Band 30_Uplin	nk frequ	iency b	and : 2305 to	2315 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/5MHz)	EIRP Average (dBm/5MHz)	EIRP Limit (dBm/5MHz)	Margin (dB)	
				1	0	22.29	20.68	24	-3.32	
10	27710	2310	QPSK	1	49	22.22	20.61	24	-3.39	
10	27710	2310	QUOK	25	12	21.31	19.70	24	-4.3	
				50	0	21.32	19.71	24	-4.29	
					1	0	21.13	19.52	24	-4.48
10	27710	2310	16QAM	1	49	21.23	19.62	24	-4.38	
10	27710	2310	100/101	25	12	20.22	18.61	24	-5.39	
				50	0	20.19	18.58	24	-5.42	
				1	0	20.16	18.55	24	-5.45	
10	10 27710 2310	64QAM	1	49	20.25	18.64	24	-5.36		
10		64QAM	25	12	19.19	17.58	24	-6.42		
			_	50	0	19.16	17.55	24	-6.45	

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Antenna	gain (dBi)	-0.79								
		LTE I	Band 38_Uplii	nk frequ	lency b	and : 2570 to	2620 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	22.92	22.13	33	-10.87	
	37775	2572.5	QPSK	1	24	22.92	22.13	33	-10.87	
	01110	2072.0	eron	12	6	21.83	21.04	33	-11.96	
				25	0	21.80	21.01	33	-11.99	
				1	0	22.91	22.12	33	-10.88	
5	38000	2595	QPSK	1	24	22.79	22.00	33	-11	
0	00000	2070	er ort	12	6	21.90	21.11	33	-11.89	
				25	0	21.86	21.07	33	-11.93	
				1	0	22.66	21.87	33	-11.13	
	38225	2617.5	QPSK	1	24	22.61	21.82	33	-11.18	
	00220	2017.0	QUOR	12	6	21.59	20.80	33	-12.2	
				25	0	21.73	20.94	33	-12.06	
				1	0	21.92	21.13	33	-11.87	
	37775 2572.	25725	16QAM	1	24	21.83	21.04	33	-11.96	
		2072.0		12	6	20.87	20.08	33	-12.92	
				25	0	20.87	20.08	33	-12.92	
				1	0	21.85	21.06	33	-11.94	
5	38000	2595	16QAM	1	24	21.83	21.04	33	-11.96	
5	30000	2373	TUCAM	12	6	20.86	20.07	33	-12.93	
				25	0	20.87	20.08	33	-12.92	
				1	0	21.72	20.93	33	-12.07	
	38225	2617.5	16QAM	1	24	21.69	20.90	33	-12.1	
	30225	2017.5	TOCAM	12	6	20.59	19.80	33	-13.2	
				25	0	20.73	19.94	33	-13.06	
				1	0	20.85	20.06	33	-12.94	
	37775	2572.5	64QAM	1	24	20.91	20.12	33	-12.88	
	37773	2072.0		12	6	19.82	19.03	33	-13.97	
				25	0	19.81	19.02	33	-13.98	
				1	0	20.91	20.12	33	-12.88	
F	5 38000 2595	64QAM	1	24	20.86	20.07	33	-12.93		
5			12	6	19.83	19.04	33	-13.96		
				25	0	19.83	19.04	33	-13.96	
				1	0	20.59	19.80	33	-13.2	
	2011⊑	2617 ⊑	64QAM	1	24	20.62	19.83	33	-13.17	
	38225 2617.5		12	6	19.73	18.94	33	-14.06		
						25	0	19.69	18.90	33

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Antenna	gain (dBi)	-0.79									
		LTE I	Band 38_Uplii	nk frequ	lency b	and : 2570 to	2620 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	22.91	22.12	33	-10.88		
	37800	2575	QPSK	1	49	22.84	22.05	33	-10.95		
	57000	2373		25	12	21.88	21.09	33	-11.91		
				50	0	21.90	21.11	33	-11.89		
				1	0	22.86	22.07	33	-10.93		
10	38000	2595	QPSK	1	49	22.85	22.06	33	-10.94		
10	30000	2373		25	12	21.86	21.07	33	-11.93		
				50	0	21.83	21.04	33	-11.96		
				1	0	22.73	21.94	33	-11.06		
	38200	2615	QPSK	1	49	22.73	21.94	33	-11.06		
	30200	2013		25	12	21.63	20.84	33	-12.16		
				50	0	21.71	20.92	33	-12.08		
				1	0	21.92	21.13	33	-11.87		
	37800	2575	16QAM	1	49	21.88	21.09	33	-11.91		
		2070		25	12	20.80	20.01	33	-12.99		
				50	0	20.80	20.01	33	-12.99		
					1	0	21.87	21.08	33	-11.92	
10	38000	2595	16QAM	1	49	21.83	21.04	33	-11.96		
10	30000	2090	TOQAM	25	12	20.87	20.08	33	-12.92		
				50	0	20.86	20.07	33	-12.93		
				1	0	21.72	20.93	33	-12.07		
	38200	2615	16QAM	1	49	21.61	20.82	33	-12.18		
	30200	2015	TOQAM	25	12	20.67	19.88	33	-13.12		
				50	0	20.70	19.91	33	-13.09		
				1	0	20.82	20.03	33	-12.97		
	37800	2575	64000	1	49	20.82	20.03	33	-12.97		
	37600	2575	64QAM	25	12	19.79	19.00	33	-14		
				50	0	19.87	19.08	33	-13.92		
				1	0	20.88	20.09	33	-12.91		
10	20000	2505	64000	1	49	20.87	20.08	33	-12.92		
10	10 38000	2595	64QAM	25	12	19.85	19.06	33	-13.94		
				50	0	19.80	19.01	33	-13.99		
				1	0	20.65	19.86	33	-13.14		
	20200	071E		1	49	20.67	19.88	33	-13.12		
	38200	2615	64QAM	25	12	19.59	18.80	33	-14.2		
						50	0	19.61	18.82	33	-14.18

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Antenna	gain (dBi)	-0.79							
		LTE I	Band 38_Uplii	nk frequ	lency b	and : 2570 to	2620 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	22.91	22.12	33	-10.88
	37825	2577.5	QPSK	1	74	22.93	22.14	33	-10.86
	57025	2011.0	QUOK	36	19	21.82	21.03	33	-11.97
				75	0	21.81	21.02	33	-11.98
				1	0	22.85	22.06	33	-10.94
15	38000	2595	QPSK	1	74	22.83	22.04	33	-10.96
15	30000	2373		36	19	21.81	21.02	33	-11.98
				75	0	21.83	21.04	33	-11.96
				1	0	22.59	21.80	33	-11.2
	38175	2612.5	QPSK	1	74	22.65	21.86	33	-11.14
	30173	2012.0		36	19	21.59	20.80	33	-12.2
				75	0	21.72	20.93	33	-12.07
				1	0	21.79	21.00	33	-12
	37825	2577.5	16QAM	1	74	21.87	21.08	33	-11.92
		2377.3	TOQAIVI	36	19	20.93	20.14	33	-12.86
				75	0	20.92	20.13	33	-12.87
				1	0	21.80	21.01	33	-11.99
15	38000	2595	16QAM	1	74	21.83	21.04	33	-11.96
15	30000	2373	TOQAM	36	19	20.88	20.09	33	-12.91
				75	0	20.85	20.06	33	-12.94
				1	0	21.65	20.86	33	-12.14
	38175	2612.5	16QAM	1	74	21.72	20.93	33	-12.07
	30175	2012.0	TOQAM	36	19	20.69	19.90	33	-13.1
				75	0	20.72	19.93	33	-13.07
				1	0	20.83	20.04	33	-12.96
	27025	2577 5	64000	1	74	20.92	20.13	33	-12.87
	37825	2577.5	64QAM	36	19	19.87	19.08	33	-13.92
				75	0	19.80	19.01	33	-13.99
				1	0	20.82	20.03	33	-12.97
15	20000	2505	64000	1	74	20.79	20.00	33	-13
15	15 38000 2595	2090	64QAM	36	19	19.79	19.00	33	-14
				75	0	19.89	19.10	33	-13.9
				1	0	20.73	19.94	33	-13.06
	20175	0410 F	64000	1	74	20.62	19.83	33	-13.17
	38175	2612.5	64QAM	36	19	19.67	18.88	33	-14.12
			75	0	19.60	18.81	33	-14.19	

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Antenna	gain (dBi)	-0.79											
		LTE I	Band 38_Uplin	nk frequ	uency b	and : 2570 to	2620 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	22.95	22.16	33	-10.84				
	37850	2580	QPSK	1	99	22.94	22.15	33	-10.85				
	0,000	2000	eron	50	25	22.13	21.34	33	-11.66				
				100	0	22.11	21.32	33	-11.68				
				1	0	22.94	22.15	33	-10.85				
20	38000	2595	QPSK	1	99	22.42	21.63	33	-11.37				
20	00000	2070	QUOR	50	25	22.04	21.25	33	-11.75				
				100	0	22.02	21.23	33	-11.77				
				1	0	22.75	21.96	33	-11.04				
	38150	2610	QPSK	1	99	22.73	21.94	33	-11.06				
		QI SIX	50	25	22.09	21.30	33	-11.7					
				100	0	22.01	21.22	33	-11.78				
				1	0	21.81	21.02	33	-11.98				
37850	2580	16QAM	1	99	21.88	21.09	33	-11.91					
	2000	TUCAN	50	25	20.81	20.02	33	-12.98					
			100	0	20.86	20.07	33	-12.93					
				1	0	21.92	21.13	33	-11.87				
20	38000	2595	16QAM	1	99	21.87	21.08	33	-11.92				
20	30000	2373	TUCAM	50	25	20.90	20.11	33	-12.89				
				100	0	20.79	20.00	33	-13				
				1	0	21.70	20.91	33	-12.09				
	38150	2610	16QAM	1	99	21.64	20.85	33	-12.15				
	30100	2010	TOQAM	50	25	20.68	19.89	33	-13.11				
				100	0	20.60	19.81	33	-13.19				
				1	0	20.80	20.01	33	-12.99				
	37850	2500	64000	1	99	20.92	20.13	33	-12.87				
	37630	2580	64QAM	50	25	19.89	19.10	33	-13.9				
				100	0	19.92	19.13	33	-13.87				
				1	0	20.87	20.08	33	-12.92				
20	20000	2505	640 004	1	99	20.79	20.00	33	-13				
20	20 38000	2595	64QAM	50	25	19.89	19.10	33	-13.9				
				100	0	19.91	19.12	33	-13.88				
				1	0	20.73	19.94	33	-13.06				
	20150	2410	6400	1	99	20.72	19.93	33	-13.07				
	38150	2610	64QAM	50	25	19.62	18.83	33	-14.17				
								100	0	19.59	18.80	33	-14.2

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Antenna	gain (dBi)	0.03							
		LTE I	Band 41_Uplin	nk frequ	iency ba	and : 2496 to	2690 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	22.23	22.26	33	-10.74
	39675	2498.5	QPSK	1	24	22.29	22.32	33	-10.68
	07070	2170.0	QI OK	12	6	21.23	21.26	33	-11.74
				25	0	21.24	21.27	33	-11.73
				1	0	22.82	22.85	33	-10.15
5	40620	2593	QPSK	1	24	22.76	22.79	33	-10.21
	10020	2070	QI OK	12	6	21.78	21.81	33	-11.19
				25	0	21.76	21.79	33	-11.21
				1	0	22.12	22.15	33	-10.85
	41565	2687.5	QPSK	1	24	22.13	22.16	33	-10.84
	11000	2007.0	QI SIX	12	6	21.06	21.09	33	-11.91
				25	0	21.07	21.10	33	-11.9
				1	0	21.21	21.24	33	-11.76
	39675	2498.5	16QAM	1	24	21.15	21.18	33	-11.82
		2470.0		12	6	20.25	20.28	33	-12.72
				25	0	20.24	20.27	33	-12.73
		2593		1	0	21.77	21.80	33	-11.2
5	40620		16QAM	1	24	21.84	21.87	33	-11.13
5	40020	2373		12	6	20.73	20.76	33	-12.24
				25	0	20.73	20.76	33	-12.24
				1	0	21.15	21.18	33	-11.82
	41565	2687.5	16QAM	1	24	21.14	21.17	33	-11.83
	41505	2007.3		12	6	20.10	20.13	33	-12.87
				25	0	20.14	20.17	33	-12.83
				1	0	20.25	20.28	33	-12.72
	39675	2498.5	64QAM	1	24	20.21	20.24	33	-12.76
	37073	2470.3		12	6	19.24	19.27	33	-13.73
				25	0	19.15	19.18	33	-13.82
				1	0	20.77	20.80	33	-12.2
F	10620	2502	64QAM	1	24	20.79	20.82	33	-12.18
5	5 40620 2593	2070		12	6	19.84	19.87	33	-13.13
				25	0	19.80	19.83	33	-13.17
				1	0	20.14	20.17	33	-12.83
	41565	2687.5	64QAM	1	24	20.08	20.11	33	-12.89
	41000	2007.3		12	6	19.11	19.14	33	-13.86
			25	0	19.06	19.09	33	-13.91	

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Antenna	gain (dBi)	0.03								
		LTE I	Band 41_Upli	nk frequ	lency b	and : 2496 to	2690 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	22.15	22.18	33	-10.82	
	39700	2501	QPSK	1	49	22.22	22.25	33	-10.75	
	07700	2001		25	12	21.21	21.24	33	-11.76	
				50	0	21.27	21.30	33	-11.7	
				1	0	22.82	22.85	33	-10.15	
10	40620	2593	QPSK	1	49	22.81	22.84	33	-10.16	
10	10020	2070	er ort	25	12	21.80	21.83	33	-11.17	
				50	0	21.85	21.88	33	-11.12	
				1	0	22.05	22.08	33	-10.92	
	41540	2685	QPSK	1	49	22.18	22.21	33	-10.79	
	11010	2000	QUOR	25	12	21.10	21.13	33	-11.87	
				50	0	21.09	21.12	33	-11.88	
				1	0	21.23	21.26	33	-11.74	
	39700	2501	16QAM	1	49	21.23	21.26	33	-11.74	
		2301	TOQAW	25	12	20.24	20.27	33	-12.73	
				50	0	20.15	20.18	33	-12.82	
					1	0	21.74	21.77	33	-11.23
10	40620	2593	16QAM	1	49	21.76	21.79	33	-11.21	
10	40020	2373	16QAM	25	12	20.73	20.76	33	-12.24	
				50	0	20.85	20.88	33	-12.12	
				1	0	21.10	21.13	33	-11.87	
	41540	2685	16QAM	1	49	21.06	21.09	33	-11.91	
	41340	2005	TUCAM	25	12	20.18	20.21	33	-12.79	
				50	0	20.18	20.21	33	-12.79	
				1	0	20.18	20.21	33	-12.79	
	39700	2501	64QAM	1	49	20.15	20.18	33	-12.82	
	37700	2501		25	12	19.18	19.21	33	-13.79	
				50	0	19.27	19.30	33	-13.7	
				1	0	20.80	20.83	33	-12.17	
10	10620	2593	64QAM	1	49	20.78	20.81	33	-12.19	
10	10 40620	2090		25	12	19.81	19.84	33	-13.16	
				50	0	19.73	19.76	33	-13.24	
				1	0	20.18	20.21	33	-12.79	
	11510	2605	640 004	1	49	20.18	20.21	33	-12.79	
	41540	2685	64QAM	25	12	19.09	19.12	33	-13.88	
				50	0	19.18	19.21	33	-13.79	

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Antenna	gain (dBi)	0.03							
		LTE I	Band 41_Uplii	nk frequ	lency b	and : 2496 to	2690 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	22.16	22.19	33	-10.81
	39725	2503.5	QPSK	1	74	22.24	22.27	33	-10.73
	07720	200010		36	18	21.16	21.19	33	-11.81
				75	0	21.26	21.29	33	-11.71
				1	0	22.84	22.87	33	-10.13
15	40620	2593	QPSK	1	74	22.76	22.79	33	-10.21
	10020	2070	QI OK	36	18	21.72	21.75	33	-11.25
				75	0	21.73	21.76	33	-11.24
				1	0	22.06	22.09	33	-10.91
	41515	2682.5	QPSK	1	74	22.18	22.21	33	-10.79
	11010	2002.0	QUOR	36	18	21.14	21.17	33	-11.83
				75	0	21.10	21.13	33	-11.87
				1	0	21.20	21.23	33	-11.77
	39725	2503.5	16QAM	1	74	21.21	21.24	33	-11.76
		2003.5		36	18	20.19	20.22	33	-12.78
				75	0	20.16	20.19	33	-12.81
				1	0	21.78	21.81	33	-11.19
15	40620	2593	16QAM	1	74	21.74	21.77	33	-11.23
15	40020	2373	TOCAM	36	18	20.79	20.82	33	-12.18
				75	0	20.75	20.78	33	-12.22
				1	0	21.19	21.22	33	-11.78
	41515	2682.5	16QAM	1	74	21.19	21.22	33	-11.78
	41313	2002.0	TUCAM	36	18	20.11	20.14	33	-12.86
				75	0	20.19	20.22	33	-12.78
				1	0	20.25	20.28	33	-12.72
	39725	2503.5	64QAM	1	74	20.26	20.29	33	-12.71
	37725	2000.0		36	18	19.26	19.29	33	-13.71
				75	0	19.25	19.28	33	-13.72
				1	0	20.85	20.88	33	-12.12
15	10620	2593	64QAM	1	74	20.74	20.77	33	-12.23
10	15 40620	2070		36	18	19.77	19.80	33	-13.2
				75	0	19.82	19.85	33	-13.15
				1	0	20.06	20.09	33	-12.91
	11515	2602 ⊑	64000	1	74	20.07	20.10	33	-12.9
	41515 2682.5	2002.0	64QAM	36	18	19.08	19.11	33	-13.89
				75	0	19.12	19.15	33	-13.85

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Antenna	gain (dBi)	0.03								
		LTE I	Band 41_Uplii	nk frequ	lency b	and : 2496 to	2690 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	22.31	22.34	33	-10.66	
	39750	2506	QPSK	1	99	22.59	22.62	33	-10.38	
				50	25	21.51	21.54	33	-11.46	
				100	0	21.58	21.61	33	-11.39	
				1	0	22.88	22.91	33	-10.09	
20	40620	2593	QPSK	1	99	22.67	22.70	33	-10.3	
20	10020	2070	QI OK	50	25	21.79	21.82	33	-11.18	
				100	0	21.87	21.90	33	-11.1	
				1	0	22.21	22.24	33	-10.76	
	41490	2680	QPSK	1	99	22.31	22.34	33	-10.66	
	11170	2000	QUOR	50	25	21.14	21.17	33	-11.83	
				100	0	21.38	21.41	33	-11.59	
				1	0	21.29	21.32	33	-11.68	
	39750	2506	16QAM	1	99	21.28	21.31	33	-11.69	
		2000	TUCAW	50	25	20.26	20.29	33	-12.71	
				100	0	20.24	20.27	33	-12.73	
				1	0	21.78	21.81	33	-11.19	
20	40620	2593	16QAM	1	99	21.82	21.85	33	-11.15	
20	40020	2373	TOCAM	50	25	20.78	20.81	33	-12.19	
				100	0	20.85	20.88	33	-12.12	
				1	0	21.15	21.18	33	-11.82	
	41490	2680	16QAM	1	99	21.18	21.21	33	-11.79	
	41470	2000	TUCAM	50	25	20.13	20.16	33	-12.84	
				100	0	20.09	20.12	33	-12.88	
				1	0	20.28	20.31	33	-12.69	
	39750	2506	64QAM	1	99	20.29	20.32	33	-12.68	
	37730	2300		50	25	19.23	19.26	33	-13.74	
				100	0	19.18	19.21	33	-13.79	
				1	0	20.73	20.76	33	-12.24	
20	40620	2593	64QAM	1	99	20.81	20.84	33	-12.16	
20	40020	2070		50	25	19.82	19.85	33	-13.15	
				100	0	19.79	19.82	33	-13.18	
				1	0	20.18	20.21	33	-12.79	
	41490	2600	640004	1	99	20.09	20.12	33	-12.88	
	41470	2680	64QAM	50	25	19.05	19.08	33	-13.92	
				100	0	19.17	19.20	33	-13.8	

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Antenna	gain (dBi)	-0.09							
		LTE I	Band 66_Uplii	nk frequ	lency b	and : 1710 to	1780 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.14	22.05	30	-7.95
	131979	1710.7	QPSK	1	5	22.13	22.04	30	-7.96
				3	2	22.04	21.95	30	-8.05
				6	0	21.03	20.94	30	-9.06
				1	0	22.21	22.12	30	-7.88
1.4	132322	1745	QPSK	1	5	22.18	22.09	30	-7.91
	102022	1710	QI OK	3	2	22.23	22.14	30	-7.86
				6	0	21.21	21.12	30	-8.88
				1	0	22.00	21.91	30	-8.09
	132665	1779.3	QPSK	1	5	22.03	21.94	30	-8.06
	102000	1777.0		3	2	22.11	22.02	30	-7.98
				6	0	21.01	20.92	30	-9.08
				1	0	21.02	20.93	30	-9.07
	131979	1710.7	16QAM	1	5	21.14	21.05	30	-8.95
		1710.7	TUCAN	3	2	21.11	21.02	30	-8.98
				6	0	20.13	20.04	30	-9.96
				1	0	21.17	21.08	30	-8.92
1.4	132322	1745	16QAM	1	5	21.14	21.05	30	-8.95
1.4	IJZJZZ	1745	TUCAM	3	2	21.22	21.13	30	-8.87
				6	0	20.11	20.02	30	-9.98
				1	0	21.10	21.01	30	-8.99
	132665	1779.3	16QAM	1	5	21.03	20.94	30	-9.06
	132003	1779.5	TOQAM	3	2	21.06	20.97	30	-9.03
				6	0	20.09	20.00	30	-10
				1	0	20.08	19.99	30	-10.01
	121070	1710 7	64000	1	5	20.12	20.03	30	-9.97
	131979	1710.7	64QAM	3	2	20.15	20.06	30	-9.94
				6	0	19.12	19.03	30	-10.97
				1	0	20.09	20.00	30	-10
1 4	10000	1745		1	5	20.12	20.03	30	-9.97
1.4	132322	1745	64QAM	3	2	20.20	20.11	30	-9.89
				6	0	19.10	19.01	30	-10.99
				1	0	20.08	19.99	30	-10.01
	100//5	1770.0		1	5	20.07	19.98	30	-10.02
	132665	1779.3	64QAM	3	2	20.03	19.94	30	-10.06
				6	0	19.02	18.93	30	-11.07

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Antenna	gain (dBi)	-0.09								
		LTE I	Band 66_Uplii	nk frequ	lency b	and : 1710 to	1780 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)	
				1	0	22.04	21.95	30	-8.05	
	131987	1711.5	QPSK	1	14	22.01	21.92	30	-8.08	
				8	4	21.09	21.00	30	-9	
				15	0	21.05	20.96	30	-9.04	
				1	0	22.21	22.12	30	-7.88	
3	132322	1745	QPSK	1	14	22.17	22.08	30	-7.92	
0	102022	1710	QUOR	8	4	21.13	21.04	30	-8.96	
				15	0	21.19	21.10	30	-8.9	
				1	0	22.02	21.93	30	-8.07	
	132657	1778.5	QPSK	1	14	22.03	21.94	30	-8.06	
	132037	1770.5	QI SIX	8	4	21.11	21.02	30	-8.98	
				15	0	21.00	20.91	30	-9.09	
				1	0	21.03	20.94	30	-9.06	
	131987 1711.5	1711 5	16QAM	1	14	21.09	21.00	30	-9	
		1711.0	TUCAN	8	4	20.07	19.98	30	-10.02	
				15	0	20.14	20.05	30	-9.95	
				1	0	21.20	21.11	30	-8.89	
3	132322	1745	16QAM	1	14	21.16	21.07	30	-8.93	
5	132322	1745	TOCAM	8	4	20.09	20.00	30	-10	
				15	0	20.22	20.13	30	-9.87	
				1	0	21.09	21.00	30	-9	
	132657	1778.5	16QAM	1	14	21.14	21.05	30	-8.95	
	132037	1770.0	TOQAM	8	4	20.00	19.91	30	-10.09	
				15	0	20.05	19.96	30	-10.04	
				1	0	20.04	19.95	30	-10.05	
	121007	1711 5	64000	1	14	20.01	19.92	30	-10.08	
	131987	1711.5	64QAM	8	4	19.04	18.95	30	-11.05	
				15	0	19.12	19.03	30	-10.97	
				1	0	20.14	20.05	30	-9.95	
n	122222	1745	64QAM	1	14	20.13	20.04	30	-9.96	
3	132322	1745	04QAW	8	4	19.16	19.07	30	-10.93	
				15	0	19.11	19.02	30	-10.98	
				1	0	20.13	20.04	30	-9.96	
	100/57	1770 5		1	14	20.13	20.04	30	-9.96	
	132657	1778.5	64QAM	8	4	19.07	18.98	30	-11.02	
			-	15	0	19.08	18.99	30	-11.01	

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Antenna	gain (dBi)	-0.09								
		LTE I	Band 66_Upli	nk frequ	lency b	and : 1710 to	1780 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)	
				1	0	22.05	21.96	30	-8.04	
	131997	1712.5	QPSK	1	24	22.13	22.04	30	-7.96	
				12	6	21.04	20.95	30	-9.05	
				25	0	21.10	21.01	30	-8.99	
				1	0	22.12	22.03	30	-7.97	
5	132322	1745	QPSK	1	24	22.14	22.05	30	-7.95	
Ū	TOLOLL	1,10	er ort	12	6	21.10	21.01	30	-8.99	
				25	0	21.17	21.08	30	-8.92	
				1	0	22.01	21.92	30	-8.08	
	132647	1777.5	QPSK	1	24	22.10	22.01	30	-7.99	
	132047	1111.5	QI SIX	12	6	21.08	20.99	30	-9.01	
				25	0	21.09	21.00	30	-9	
				1	0	21.07	20.98	30	-9.02	
	131997 1712.5	17125	16QAM	1	24	21.04	20.95	30	-9.05	
		1712.3	TOQAM	12	6	20.15	20.06	30	-9.94	
				25	0	20.08	19.99	30	-10.01	
			1	0	21.17	21.08	30	-8.92		
5	132322	1745	16QAM	1	24	21.23	21.14	30	-8.86	
5	132322	1745	TOCAM	12	6	20.21	20.12	30	-9.88	
				25	0	20.17	20.08	30	-9.92	
				1	0	21.02	20.93	30	-9.07	
	132647	1777.5	16QAM	1	24	21.03	20.94	30	-9.06	
	132047	1777.5	TOQAIN	12	6	20.05	19.96	30	-10.04	
				25	0	20.13	20.04	30	-9.96	
				1	0	20.12	20.03	30	-9.97	
	121007	1710 5	64000	1	24	20.14	20.05	30	-9.95	
	131997	1712.5	64QAM	12	6	19.02	18.93	30	-11.07	
				25	0	19.08	18.99	30	-11.01	
				1	0	20.14	20.05	30	-9.95	
F	122222	1745	640 004	1	24	20.18	20.09	30	-9.91	
5	132322	1745	64QAM	12	6	19.09	19.00	30	-11	
				25	0	19.20	19.11	30	-10.89	
				1	0	20.12	20.03	30	-9.97	
	100/47	1777 Г		1	24	20.06	19.97	30	-10.03	
	132647	1777.5	64QAM	12	6	19.02	18.93	30	-11.07	
				25	0	19.07	18.98	30	-11.02	

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Antenna	gain (dBi)	-0.09							
		LTE E	Band 66_Uplii	nk frequ	lency b	and : 1710 to	1780 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.03	21.94	30	-8.06
	132022	1715	QPSK	1	49	22.09	22.00	30	-8
			2. 0.1	25	12	21.05	20.96	30	-9.04
				50	0	21.14	21.05	30	-8.95
				1	0	22.09	22.00	30	-8
10	132322	1745	QPSK	1	49	22.09	22.00	30	-8
10	102022	1710	QUOR	25	12	21.20	21.11	30	-8.89
				50	0	21.13	21.04	30	-8.96
				1	0	22.10	22.01	30	-7.99
	132622	1775	QPSK	1	49	22.13	22.04	30	-7.96
			QUOR	25	12	21.04	20.95	30	-9.05
				50	0	21.11	21.02	30	-8.98
				1	0	21.07	20.98	30	-9.02
	132022 171	1715	16QAM	1	49	21.14	21.05	30	-8.95
		1715	TOQAM	25	12	20.10	20.01	30	-9.99
				50	0	20.07	19.98	30	-10.02
				1	0	21.16	21.07	30	-8.93
10	132322	1745	16QAM	1	49	21.17	21.08	30	-8.92
10	132322	1745	TOCAM	25	12	20.11	20.02	30	-9.98
				50	0	20.12	20.03	30	-9.97
				1	0	21.01	20.92	30	-9.08
	132622	1775	16QAM	1	49	21.09	21.00	30	-9
	132022	1775	TOQAM	25	12	20.09	20.00	30	-10
				50	0	20.04	19.95	30	-10.05
				1	0	20.04	19.95	30	-10.05
	132022	1715	64QAM	1	49	20.01	19.92	30	-10.08
	132022	1715		25	12	19.13	19.04	30	-10.96
				50	0	19.13	19.04	30	-10.96
				1	0	20.13	20.04	30	-9.96
10	132322	1745	64QAM	1	49	20.16	20.07	30	-9.93
10	132322	1740		25	12	19.09	19.00	30	-11
				50	0	19.20	19.11	30	-10.89
				1	0	20.14	20.05	30	-9.95
	132622	1775	64000	1	49	20.07	19.98	30	-10.02
	132022	1775	64QAM	25	12	19.06	18.97	30	-11.03
				50	0	19.06	18.97	30	-11.03

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Antenna	gain (dBi)	-0.09								
		LTE I	Band 66_Uplii	nk frequ	lency b	and : 1710 to	1780 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)	
				1	0	22.11	22.02	30	-7.98	
	132047	1717.5	QPSK	1	74	22.01	21.92	30	-8.08	
				36	18	21.03	20.94	30	-9.06	
				75	0	21.05	20.96	30	-9.04	
				1	0	22.10	22.01	30	-7.99	
15	132322	1745	QPSK	1	74	22.19	22.10	30	-7.9	
10	102022	1710	QUOR	36	18	21.22	21.13	30	-8.87	
				75	0	21.23	21.14	30	-8.86	
				1	0	22.01	21.92	30	-8.08	
	132597	1772.5	QPSK	1	74	22.02	21.93	30	-8.07	
	152577	1772.0	QI SIX	36	18	21.03	20.94	30	-9.06	
				75	0	21.10	21.01	30	-8.99	
				1	0	21.08	20.99	30	-9.01	
	132047	1717.5	16QAM	1	74	21.14	21.05	30	-8.95	
		1717.5	TOQAM	36	18	20.09	20.00	30	-10	
				75	0	20.11	20.02	30	-9.98	
				1	0	21.14	21.05	30	-8.95	
15	132322	1745	16QAM	1	74	21.21	21.12	30	-8.88	
15	132322	1745	TOCAM	36	18	20.09	20.00	30	-10	
				75	0	20.16	20.07	30	-9.93	
				1	0	21.09	21.00	30	-9	
	132597	1772.5	16QAM	1	74	21.09	21.00	30	-9	
	132397	1772.0	TOQAM	36	18	20.14	20.05	30	-9.95	
				75	0	20.12	20.03	30	-9.97	
				1	0	20.11	20.02	30	-9.98	
	122047	1717 5	64000	1	74	20.12	20.03	30	-9.97	
	132047	1717.5	64QAM	36	18	19.02	18.93	30	-11.07	
				75	0	19.01	18.92	30	-11.08	
				1	0	20.19	20.10	30	-9.9	
15	122222	1745	6400	1	74	20.17	20.08	30	-9.92	
15	132322	1745	64QAM	36	18	19.19	19.10	30	-10.9	
				75	0	19.21	19.12	30	-10.88	
				1	0	20.09	20.00	30	-10	
	100507	1770 5		1	74	20.12	20.03	30	-9.97	
	132597	1772.5	64QAM	36	18	19.08	18.99	30	-11.01	
				75	0	19.03	18.94	30	-11.06	

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Antenna	gain (dBi)	-0.09							
		LTE I	Band 66_Uplii	nk frequ	uency b	and : 1710 to	1780 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.17	22.08	30	-7.92
	132072	1720	QPSK	1	99	22.16	22.07	30	-7.93
	102072			50	25	21.24	21.15	30	-8.85
				100	0	21.23	21.14	30	-8.86
				1	0	22.25	22.16	30	-7.84
20	132322	1745	QPSK	1	99	22.15	22.06	30	-7.94
20	TOLOLL	1,10	er ort	50	25	21.26	21.17	30	-8.83
				100	0	21.24	21.15	30	-8.85
				1	0	22.16	22.07	30	-7.93
	132572	1770	QPSK	1	99	22.02	21.93	30	-8.07
	102072	1770	QUOR	50	25	21.23	21.14	30	-8.86
				100	0	21.15	21.06	30	-8.94
				1	0	21.01	20.92	30	-9.08
	132072 1720	1720	16QAM	1	99	21.14	21.05	30	-8.95
		1720	100/101	50	25	20.09	20.00	30	-10
				100	0	20.14	20.05	30	-9.95
				1	0	21.13	21.04	30	-8.96
20	132322	1745	16QAM	1	99	21.11	21.02	30	-8.98
20	132322	1745	TOCAM	50	25	20.22	20.13	30	-9.87
				100	0	20.15	20.06	30	-9.94
				1	0	21.12	21.03	30	-8.97
	132572	1770	16QAM	1	99	21.11	21.02	30	-8.98
	132372	1770	TOQAM	50	25	20.11	20.02	30	-9.98
				100	0	20.09	20.00	30	-10
				1	0	20.09	20.00	30	-10
	122072	1700	64000	1	99	20.08	19.99	30	-10.01
	132072	1720	64QAM	50	25	19.10	19.01	30	-10.99
				100	0	19.06	18.97	30	-11.03
				1	0	20.19	20.10	30	-9.9
20	122222	1745	6400	1	99	20.13	20.04	30	-9.96
20	132322	1745	64QAM	50	25	19.12	19.03	30	-10.97
				100	0	19.10	19.01	30	-10.99
				1	0	20.09	20.00	30	-10
	100570	1770		1	99	20.04	19.95	30	-10.05
	132572	1770	64QAM	50	25	19.07	18.98	30	-11.02
				100	0	19.04	18.95	30	-11.05

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Antenna	gain (dBi)	-2.8							
		LTE	Band 71_Upl	ink frec	luency l	band : 663 to	698 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.80	22.80	34.77	-11.97
	133147	665.5	QPSK	1	24	22.77	22.77	34.77	-12
	100117	000.0	QI OK	12	6	21.84	21.84	34.77	-12.93
				25	0	21.87	21.87	34.77	-12.9
				1	0	22.72	22.72	34.77	-12.05
5	133297	680.5	QPSK	1	24	22.66	22.66	34.77	-12.11
5	100277	000.0	QUOK	12	6	21.71	21.71	34.77	-13.06
				25	0	21.71	21.71	34.77	-13.06
				1	0	22.66	22.66	34.77	-12.11
	133447	695.5	QPSK	1	24	22.69	22.69	34.77	-12.08
	100447		QUOK	12	6	21.64	21.64	34.77	-13.13
				25	0	21.57	21.57	34.77	-13.2
				1	0	21.82	21.82	34.77	-12.95
	133147	665.5	16QAM	1	24	21.86	21.86	34.77	-12.91
		000.0		12	6	20.81	20.81	34.77	-13.96
				25	0	20.88	20.88	34.77	-13.89
				1	0	21.67	21.67	34.77	-13.1
5	133297	680.5	16QAM	1	24	21.73	21.73	34.77	-13.04
5	100277	000.0	100/100	12	6	20.73	20.73	34.77	-14.04
				25	0	20.72	20.72	34.77	-14.05
				1	0	21.65	21.65	34.77	-13.12
	133447	695.5	16QAM	1	24	21.70	21.70	34.77	-13.07
	133447	075.5	TOCAM	12	6	20.68	20.68	34.77	-14.09
				25	0	20.63	20.63	34.77	-14.14
				1	0	20.83	20.83	34.77	-13.94
	133147	665.5	64QAM	1	24	20.77	20.77	34.77	-14
	13317/	000.0	บา <i>นก</i> เพ	12	6	19.89	19.89	34.77	-14.88
				25	0	19.87	19.87	34.77	-14.9
				1	0	20.63	20.63	34.77	-14.14
5	133297	680.5	64QAM	1	24	20.74	20.74	34.77	-14.03
5	133277	000.0		12	6	19.66	19.66	34.77	-15.11
				25	0	19.75	19.75	34.77	-15.02
				1	0	20.68	20.68	34.77	-14.09
	133447	695.5	64000	1	24	20.66	20.66	34.77	-14.11
	133447	070.0	64QAM	12	6	19.66	19.66	34.77	-15.11
				25	0	19.60	19.60	34.77	-15.17

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Antenna	gain (dBi)	-2.8							
	-	LTE	Band 71_Upl	ink frec	quency	band : 663 to	698 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.79	22.79	34.77	-11.98
	133172	668	QPSK	1	49	22.83	22.83	34.77	-11.94
	100172	000	QUOR	25	12	21.82	21.82	34.77	-12.95
				50	0	21.87	21.87	34.77	-12.9
				1	0	22.67	22.67	34.77	-12.1
10	133297	680.5	QPSK	1	49	22.61	22.61	34.77	-12.16
10	100277	000.0	QUOR	25	12	21.73	21.73	34.77	-13.04
				50	0	21.70	21.70	34.77	-13.07
				1	0	22.63	22.63	34.77	-12.14
	133422	693	QPSK	1	49	22.68	22.68	34.77	-12.09
		070	QUOK	25	12	21.65	21.65	34.77	-13.12
				50	0	21.57	21.57	34.77	-13.2
				1	0	21.88	21.88	34.77	-12.89
	133172	668	16QAM	1	49	21.88	21.88	34.77	-12.89
				25	12	20.75	20.75	34.77	-14.02
				50	0	20.86	20.86	34.77	-13.91
				1	0	21.69	21.69	34.77	-13.08
10	133297	680.5	16QAM	1	49	21.75	21.75	34.77	-13.02
10	100277	000.0	Toterm	25	12	20.62	20.62	34.77	-14.15
				50	0	20.68	20.68	34.77	-14.09
				1	0	21.66	21.66	34.77	-13.11
	133422	693	16QAM	1	49	21.63	21.63	34.77	-13.14
	100122	070	100/101	25	12	20.70	20.70	34.77	-14.07
				50	0	20.68	20.68	34.77	-14.09
				1	0	20.81	20.81	34.77	-13.96
	133172	668	64QAM	1	49	20.85	20.85	34.77	-13.92
	100172	000	010/101	25	12	19.86	19.86	34.77	-14.91
				50	0	19.81	19.81	34.77	-14.96
				1	0	20.71	20.71	34.77	-14.06
10	133297	680.5	64QAM	1	49	20.73	20.73	34.77	-14.04
10	100277	000.0		25	12	19.72	19.72	34.77	-15.05
				50	0	19.68	19.68	34.77	-15.09
				1	0	20.60	20.60	34.77	-14.17
	133422	693	64QAM	1	49	20.66	20.66	34.77	-14.11
	100122	133422 693	0102/1111	25	12	19.59	19.59	34.77	-15.18
				50	0	19.61	19.61	34.77	-15.16

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Antenna	gain (dBi)	-2.8							
		LTE	Band 71_Upl	ink frec	quency	band : 663 to	698 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.85	22.85	34.77	-11.92
	133197	670.5	QPSK	1	74	22.83	22.83	34.77	-11.94
	100177	070.5	QUOR	36	18	21.89	21.89	34.77	-12.88
				75	0	21.84	21.84	34.77	-12.93
				1	0	22.75	22.75	34.77	-12.02
15	133297	680.5	QPSK	1	74	22.70	22.70	34.77	-12.07
15	100277	000.5	QUOR	36	18	21.74	21.74	34.77	-13.03
				75	0	21.68	21.68	34.77	-13.09
				1	0	22.70	22.70	34.77	-12.07
	133397	690.5	QPSK	1	74	22.66	22.66	34.77	-12.11
		070.0	QUOR	36	18	21.63	21.63	34.77	-13.14
				75	0	21.71	21.71	34.77	-13.06
				1	0	21.76	21.76	34.77	-13.01
	133197	670.5	16QAM	1	74	21.89	21.89	34.77	-12.88
		070.0		36	18	20.77	20.77	34.77	-14
				75	0	20.80	20.80	34.77	-13.97
				1	0	21.70	21.70	34.77	-13.07
15	133297	680.5	16QAM	1	74	21.72	21.72	34.77	-13.05
10	100277	000.0	Toterin	36	18	20.72	20.72	34.77	-14.05
				75	0	20.67	20.67	34.77	-14.1
				1	0	21.64	21.64	34.77	-13.13
	133397	690.5	16QAM	1	74	21.66	21.66	34.77	-13.11
	100077	0,0.0	Toterin	36	18	20.57	20.57	34.77	-14.2
				75	0	20.70	20.70	34.77	-14.07
				1	0	20.79	20.79	34.77	-13.98
	133197	670.5	64QAM	1	74	20.83	20.83	34.77	-13.94
		0,010		36	18	19.85	19.85	34.77	-14.92
				75	0	19.89	19.89	34.77	-14.88
				1	0	20.69	20.69	34.77	-14.08
15	133297	680.5	64QAM	1	74	20.69	20.69	34.77	-14.08
		00010	C . 2/ WI	36	18	19.62	19.62	34.77	-15.15
				75	0	19.67	19.67	34.77	-15.1
				1	0	20.64	20.64	34.77	-14.13
	133397	690.5	64QAM	1	74	20.57	20.57	34.77	-14.2
		397 690.5	64QAM	36	18	19.62	19.62	34.77	-15.15
				75	0	19.57	19.57	34.77	-15.2

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Antenna	gain (dBi)	-2.8							
		LTE	Band 71_Upl	ink frec	luency l	band : 663 to	698 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.91	22.91	34.77	-11.86
	133222	673	QPSK	1	99	22.90	22.90	34.77	-11.87
	100222	073	QUOR	50	25	21.77	21.77	34.77	-13
				100	0	21.76	21.76	34.77	-13.01
				1	0	22.77	22.77	34.77	-12
20	133297	680.5	QPSK	1	99	22.76	22.76	34.77	-12.01
20	133277	000.5		50	25	21.71	21.71	34.77	-13.06
				100	0	21.63	21.63	34.77	-13.14
				1	0	22.73	22.73	34.77	-12.04
	133372	688	QPSK	1	99	22.71	22.71	34.77	-12.06
		000	QLOK	50	25	21.69	21.69	34.77	-13.08
				100	0	21.69	21.69	34.77	-13.08
				1	0	21.86	21.86	34.77	-12.91
	133222	673	16QAM	1	99	21.79	21.79	34.77	-12.98
	133222	075		50	25	20.75	20.75	34.77	-14.02
				100	0	20.79	20.79	34.77	-13.98
				1	0	21.68	21.68	34.77	-13.09
20	133297	680.5	16QAM	1	99	21.64	21.64	34.77	-13.13
20	133277	000.5	TUCAM	50	25	20.73	20.73	34.77	-14.04
				100	0	20.71	20.71	34.77	-14.06
				1	0	21.71	21.71	34.77	-13.06
	133372	688	16QAM	1	99	21.68	21.68	34.77	-13.09
	133372	000	TUCAM	50	25	20.67	20.67	34.77	-14.1
				100	0	20.57	20.57	34.77	-14.2
				1	0	20.81	20.81	34.77	-13.96
	133222	673	64QAM	1	99	20.82	20.82	34.77	-13.95
	IJJZZZ	075		50	25	19.88	19.88	34.77	-14.89
				100	0	19.83	19.83	34.77	-14.94
				1	0	20.68	20.68	34.77	-14.09
20	133297	680.5	64QAM	1	99	20.74	20.74	34.77	-14.03
20	133271	000.0		50	25	19.71	19.71	34.77	-15.06
				100	0	19.65	19.65	34.77	-15.12
				1	0	20.60	20.60	34.77	-14.17
	133372	688	64QAM	1	99	20.66	20.66	34.77	-14.11
	133372	000		50	25	19.57	19.57	34.77	-15.2
				100	0	19.66	19.66	34.77	-15.11

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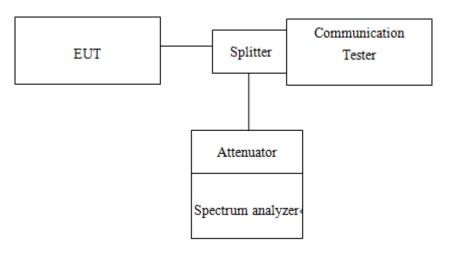


# 7 OCCUPIED BANDWIDTH MEASUREMENT

# 7.1 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.

### 7.2 Test Set-up



### 7.3 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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#### 7.4 **Measurement Equipment Used**

	Conducted	Emission Test	Site: Conducte	ed 4	
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Ana- lyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/29/2020	10/28/2021
Radio Communication Analyer	Anritsu	MT8815A	6200429620	01/15/2021	01/14/2022
Radio Communication Analyer	Anritsu	MT8821C	6261786084	01/20/2021	01/19/2022
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412- 018	12/16/2020	12/15/2021

#### 7.5 **Measurement Result**

Erog		9	9% BW (MH	z)	26	dB BW (MI	Hz)
Freq. (MHz)	СН	GSM	GPRS	EDGE	GSM	GPRS	EDGE
(11112)		850	850	850	850	850	850
824.2	128	0.24631	0.24325	0.24831	0.3216	0.3190	0.3189
836.6	190	0.24307	0.24901	0.24822	0.3148	0.3212	0.3150
848.8	251	0.24438	0.24823	0.24536	0.3221	0.3192	0.3152
Erog		9	9% BW (MH	z)	26	dB BW (Mł	Hz)
Freq.	СН	99 GSM	9% BW (MH GPRS	z) EDGE	26 GSM	dB BW (MI GPRS	lz) EDGE
Freq. (MHz)	СН			·			,
	<b>CH</b> 512	GSM	GPRS	EDGE	GSM	GPRS	EDGE
(MHz)	-	GSM 1900	GPRS 1900	EDGE 1900	GSM 1900	GPRS 1900	EDGE 1900

Freq.		9	9% BW (MH	z)	26 dB BW (MHz)			
	СН	WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA	
(MHz)		П	П	П	П	П	П	
1852.40	9262	4.14080	4.13930	4.13810	4.698	4.687	4.683	
1880.00	9400	4.13480	4.13800	4.14270	4.698	4.683	4.669	
1907.60	9538	4.14120	4.13890	4.14430	4.695	4.694	4.686	

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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Erog		9	9% BW (MH	z)	26	dB BW (Mł	Hz)
Freq. (MHz)	СН	WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA
(11112)		IV	IV	IV	IV	IV	IV
1712.40	1312	4.14090	4.13680	4.14450	4.699	4.687	4.690
1732.60	1413	4.13570	4.14640	4.14300	4.701	4.688	4.686
1752.60	1513	4.14280	4.13250	4.13580	4.705	4.682	4.686
	E						
Erog		9	9% BW (MH	z)	26	dB BW (Mł	Hz)
Freq.	СН	9 WCDMA	9% BW (MH HSDPA	z) HSUPA	26 WCDMA	dB BW (MI HSDPA	iz) HSUPA
Freq. (MHz)	СН		,	,		•	,
	CH 4132	WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA
(MHz)		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V

	LTE BAND 2 Channel bandwidth: 1.4MHz									
Freq.	СН	99	% BW (Mł	Hz)	26 dB BW (MHz)					
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
1850.7	18607	1.0850	1.0847	1.0850	1.224	1.216	1.219			
1880.0	18900	1.0856	1.0857	1.0833	1.219	1.218	1.220			
1909.3	19193	1.0864	1.0836	1.0857	1.217	1.219	1.222			

LTE BAND 2 Channel bandwidth: 5MHz										
Freq.	СН	99	% BW (MF	Hz)	26	dB BW (M	Hz)			
(MHz)	GI	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
1852.5	18625	4.4774	4.4815	4.4883	4.934	4.909	4.930			
1880.0	18900	4.4766	4.4793	4.4843	4.923	4.911	4.920			
1907.5	19175	4.4747	4.4826	4.4852	4.946	4.909	4.918			

	LTE BAND 2 Channel bandwidth: 15MHz									
Freq.	сц	99	% BW (Mł	Hz)	26	dB BW (M	dB BW (MHz)			
(MHz)	СН	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
1857.5	18675	13.436	13.428	13.418	14.45	14.47	14.50			
1880.0	18900	13.437	13.424	13.412	14.52	14.51	14.61			
1902.5	19125	13.408	13.403	13.412	14.42	14.58	14.46			
		LTE BAND	) 4 Channe	l bandwidt	h: 1.4MHz					
Freq.	СН	99	% BW (Mł	Hz)	26	dB BW (M	Hz)			
(MHz)	GIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
1710.7	19957	1.0852	1.0852	1.0841	1.218	1.217	1.216			
1732.5	20175	1.0846	1.0865	1.1001	1.183	1.211	1.221			
1754.3	20393	1.0846	1.0857	1.0841	1.226	1.219	1.220			

	LTE BAND 4 Channel bandwidth: 5MHz										
Freq.	СН	99	% BW (Mł	Hz)	26	26 dB BW (MHz)					
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
1712.5	19975	4.4754	4.4777	4.4843	4.914	4.918	4.905				
1732.5	20175	4.4756	4.4759	4.4858	4.920	4.947	4.917				
1752.5	20375	4.4738	4.4771	4.4946	4.915	4.902	4.913				

	LTE BAND 4 Channel bandwidth: 15MHz									
Freq.	СН	99	% BW (Mł	Hz)	26	26 dB BW (MHz)				
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
1717.5	20025	13.414	13.406	13.400	14.49	14.48	14.55			
1732.5	20175	13.411	13.435	13.411	14.49	14.50	14.48			
1747.5	20325	13.601	13.421	13.381	14.06	14.50	14.51			

			LTE BAN	D 2 Chann	el bandwic	lth: 3MHz		
ſ	Freq.	СН	99	% BW (Mł	Hz)	26	dB BW (M	Hz)
	(MHz)	G	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
ſ	1851.5	18615	2.6863	2.6869	2.6880	2.937	2.969	2.942
	1880.0	18900	2.6854	2.6882	2.6864	2.950	2.952	2.930
[	1908.5	19185	2.6873	2.6869	2.6908	2.940	2.956	2.940

	LTE BAND 2 Channel bandwidth: 10MHz								
Freq.	СН	99	% BW (Mł	Hz)	26	dB BW (M	Hz)		
(MHz)	GI	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
1855.0	18650	8.9442	8.9360	8.9517	9.686	9.648	9.742		
1880.0	18900	8.9646	8.9315	8.9487	9.709	9.622	9.699		
1905.0	19150	8.9505	8.9282	8.9526	9.709	9.640	9.717		

	LTE BAND 2 Channel bandwidth: 20MHz								
Freq.	СН	99	% BW (Mł	Hz)	26	dB BW (M	Hz)		
(MHz)	GI	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
1860.0	18700	17.859	17.891	17.842	19.14	19.23	19.15		
1880.0	18900	17.869	17.911	17.869	19.28	19.32	19.30		
1900.0	19100	17.895	17.894	17.853	19.32	19.20	19.32		
		LTE BAN	D 4 Chann	el bandwic	tth: 3MHz				
Freq.	СН	99	% BW (Mł	Hz)	26	dB BW (M	Hz)		
(MHz)	GI	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
1711.5	19965	2.6812	2.6915	2.6900	2.953	2.962	2.948		
1732.5	20175	2.6839	2.6906	2.6892	2.946	2.948	2.960		
1753.5	20385	2.6835	2.6844	2.6879	2.946	2.961	2.946		

1	LTE BAND 4 Channel bandwidth: 10MHz									
	Freq.	СН	99	% BW (Mł	Hz)	26 dB BW (MHz)				
	(MHz)	Сп	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
	1715.0	20000	8.9455	8.9068	8.9373	9.647	9.725	9.660		
	1732.5	20175	8.9645	8.9379	8.9360	9.647	9.668	9.714		
	1750.0	20350	8.9548	8.9280	8.9336	9.642	9.629	9.728		

	LTE BAND 4 Channel bandwidth: 20MHz										
Freq.	СН	99	% BW (Mł	Hz)	26	dB BW (M	Hz)				
(MHz)	GI	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
1720.0	20050	17.860	17.880	17.843	19.29	19.18	19.18				
1732.5	20175	17.892	18.076	17.884	19.27	18.57	19.41				
1745.0	20300	17.909	17.893	17.869	18.54	19.28	19.25				

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1	LTE BAND 5 Channel bandwidth: 1.4MHz											
	Freq.	СН	99	% BW (Mł	lz)	26 dB BW (MHz)						
	(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
	824.7	20407	1.0852	1.0843	1.0834	1.221	1.212	1.216				
	836.5	20525	1.0853	1.0859	1.0847	1.220	1.213	1.214				
	848.3	20643	1.0835	1.0846	1.0838	1.217	1.217	1.214				

LTE BAND 5 Channel bandwidth: 5MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)					
(MHz)	-	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
826.5	20425	4.4830	4.4822	4.4957	4.916	4.968	4.917			
836.5	20525	4.4751	4.4794	4.4867	4.928	4.906	4.933			
846.5	20625	4.4753	4.4779	4.4825	4.923	4.924	4.922			
LTE BAND 7 Channel bandwidth: 5MHz										
		LTE BAN	D 7 Chann	el bandwic	Ith: 5MHz					
Freq.	СЦ		D 7 Chann % BW (Mł			dB BW (M	Hz)			
Freq. (MHz)	СН					d <mark>b BW (M</mark> 16QAM	Hz) 64QAM			
	CH 20775	99	% BW (Mł	Hz)	26		,			
(MHz)		99 QPSK	% BW (Mi 16QAM	Hz) 64QAM	26 QPSK	16QAM	64QAM			
(MHz) 2502.5	20775	99 QPSK 4.4716	% BW (MF 16QAM 4.4790	Hz) 64QAM 4.4803	26 QPSK 4.942	16QAM 4.891	64QAM 4.892			

	LTE BAND 7 Channel bandwidth: 15MHz										
Freq.	СН	99	% BW (Mł	Hz)	26 dB BW (MHz)						
(MHz)	-	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
2507.5	20825	13.425	13.431	13.400	14.52	14.64	14.58				
2535.0	21100	13.439	13.423	13.412	14.57	14.54	14.50				
2562.5	21375	13.460	13.543	13.398	14.51	14.08	14.52				
	l	lte band	12 Channe	el bandwid	th: 1.4MHz	7					
Freq.	СН	99	% BW (Mł	Hz)	26 dB BW (MHz)						
(MHz)	Сп	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
699.7	23017	1.0844	1.0851	1.0831	1.216	1.223	1.218				
707.5	23095	1.0852	1.0813	1.0847	1.223	1.214	1.224				
715.3	23173	1.0832	1.0840	1.0843	1.213	1.211	1.220				

	LTE BAND 12 Channel bandwidth: 5MHz											
Freq.	СН	99	% BW (Mł	Hz)	26 dB BW (MHz)							
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
701.5	23035	4.4756	4.4815	4.4820	4.939	4.889	4.904					
707.5	23095	4.4745	4.4800	4.4845	4.940	4.939	4.925					
713.5	23155	4.4700	4.4798	4.4843	4.914	4.922	4.920					

	LTE BAND 17 Channel bandwidth: 5MHz											
Freq.	СН	99	% BW (Mł	Hz)	26 dB BW (MHz)							
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
706.5	23755	4.4770	4.4757	4.4797	4.948	4.929	4.925					
710.0	23790	4.4796	4.4819	4.4882	4.920	4.904	4.870					
713.5	23825	4.4794	4.4774	4.4847	4.936	4.920	4.925					

	LTE BAND 5 Channel bandwidth: 3MHz										
Freq.	СН	99	% BW (Mł	dB BW (M	Hz)						
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
825.5	20415	2.6913	2.6849	2.6939	2.952	2.969	2.946				
836.5	20525	2.6870	2.6846	2.6846	2.942	2.951	2.928				
847.5	20635	2.6839	2.6900	2.6860	) 2.936 2.957 <b>2.9</b>						

	LTE BAND 5 Channel bandwidth: 10MHz											
Freq.	СН	99% BW (MHz)			26	dB BW (M	Hz)					
(MHz)	CH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
829.0	20450	8.9555	8.9184	8.9423	9.719	9.622	9.692					
836.5	20525	8.9428	8.9209	8.9322	9.628	9.667	9.690					
844.0	20600	8.9649	8.9388	8.9424	9.661	9.696	9.643					
		LTE BAN	0 7 Channe	el bandwid	th: 10MHz							
Freq.	СН	99	% BW (Mł	lz)	26 dB BW (MHz)							
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
2505.0	20800	8.9318	8.9273	8.9324	9.674	9.633	9.685					
2535.0	21100	8.9526	8.9242	8.9551	9.700	9.679	9.701					

	LTE BAND 7 Channel bandwidth: 20MHz											
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)							
(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
2510.0	20850	17.872	17.893	17.892	19.29	19.30	19.18					
2535.0	21100	17.856	17.882	18.060	19.16	19.27	18.78					
2560.0	21350	17.880	17.919	17.852	19.28	19.24	19.35					
		LTE BAN	D 12 Chanr	nel bandwi	dth: 3MHz							
Freq.	СН	99	% BW (Mł	Hz)	26 dB BW (MHz)							
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
700.5	23025	2.6855	2.6916	2.6943	2.941	2.970	2.973					
707.5	23095	2.6878	2.6883	2.6912	2.946	2.975	2.943					
714.5	23165	2.6861	2.6898	2.6853	2.941	2.950	2.936					

	LTE BAND 12 Channel bandwidth: 10MHz										
Freq.	СН	99	99% BW (MHz) 26 dB BW (MHz)				Hz)				
(MHz)	01	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
704.0	23060	8.9265	8.9206	8.9374	9.636	9.638	9.633				
707.5	23095	8.9462	8.9175	8.9377	9.673	9.638	9.746				
711.0	23130	8.9697	8.9292	8.9414	9.655	9.620	9.734				

	LTE BAND 17 Channel bandwidth: 10MHz										
Freq.	СН	99	% BW (Mł	Hz)	26	dB BW (M	Hz)				
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
709.0	23780	8.9428	8.9239	8.9336	9.656	9.679	9.729				
710.0	23790	8.9413	8.9312	8.9391	9.678	9.748	9.674				
711.0	23800	8.9439	8.9204	8.9363	9.638	9.572	9.661				

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	LTE BAND 25 Channel bandwidth: 1.4MHz										
Freq.	СН	99	% BW (Mł	Hz)	26 dB BW (MHz)						
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
1850.7	26047	1.0858	1.0819	1.0840	1.221	1.213	1.219				
1882.5	26365	1.0849	1.0852	1.0832	1.222	1.212	1.220				
1914.3	26683	1.0825	1.0839	1.0836	1.212	1.214	1.221				

	LTE BAND 25 Channel bandwidth: 5MHz										
Freq.	СН	99	99% BW (MHz)			26 dB BW (MHz)					
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
1852.5	26065	4.4743	4.4796	4.4986	4.920	4.919	4.932				
1882.5	26365	4.4802	4.4710	4.4908	4.927	4.931	4.945				
1912.5	26665	4.4786	4.4693	4.4831	4.908	4.893	4.908				

	LTE BAND 25 Channel bandwidth: 15MHz												
		lte band	25 Chann	el bandwic	th: 15MHz								
Freq.	СН	99	% BW (Mł	Hz)	26 dB BW (MHz)								
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM						
1857.5	26115	13.448	13.417	13.419	14.57	14.52	14.49						
1882.5	26365	13.433	13.421	13.416	14.48	14.61	14.50						
1907.5	26615	13.409	13.430	13.394	14.49	14.48	14.50						
		lte band	26 Channe	el bandwid	th: 1.4MHz	7							
Freq.	СН	99	% BW (Mł	Hz)	26	dB BW (M	Hz)						
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM						
824.7	26797	1.0855	1.0853	1.0841	1.220	1.214	1.218						
836.5	26915	1.0851	1.0845	1.0826	1.220	1.218	1.218						
848.3	27033	1.0813	1.0842	1.0832	1.211	1.219	1.218						

r											
	LTE BAND 26 Channel bandwidth: 5MHz										
Freq.	СН	99	% BW (MHz)		26 dB BW (MHz)		Hz)				
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
826.5	26815	4.4805	4.4869	4.4903	4.932	4.902	4.940				
836.5	26915	4.4784	4.4812	4.4840	4.912	4.922	4.938				
846.5	27015	4.4746	4.4823	4.4860	4.913	4.922	4.917				

	LTE BAND 26 Channel bandwidth: 15MHz											
		LTE BAND	26 Chann	el bandwic	Ith: 15MHz							
Freq.	СН	99	% BW (M⊦	lz)	26 dB BW (MHz)							
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
831.5	26865	13.441	13.420	13.425	14.47	14.60	14.59					
836.5	26915	13.386	13.402	13.399	14.45	14.54	14.46					
841.5	26965	13.405	13.415	13.412	14.53	14.56	14.55					
	LTE B	AND 26 for	part 90S (	Channel ba	ndwidth: 1	.4MHz						
Freq.	СН	99	% BW (Mł	lz)	26	dB BW (M	Hz)					
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
0147				4 0000	4 0 4 7	4 04 0	4.045					
814.7	26697	1.0834	1.0864	1.0828	1.217	1.218	1.215					
814.7 819.0	26697 26740	1.0834 1.0849	1.0864 1.0850	1.0828 1.0837	1.217	1.218 1.221	1.215					

LTE BAND 26 for part 90S Channel bandwidth: 5MHz           Freq. (MHz)         26 d B BW (MHz)           QPSK         16QAM         64QAM         QPSK         16QAM         64QAM           816.5         26715         4.4775         4.4895         4.950         4.909         4.920           819.0         26740         4.4750         4.4786         4.4895         4.921         4.887         4.919           821.5         26765         4.4780         4.4775         4.4839         4.915         4.904         4.911           LTE BAND 30 Channel bandwidth: 5MHz           LTE BAND 30 Channel bandwidth: 5MHz           LTE BAND 30 Channel bandwidth: 5MHz           CH         99% BW (MHz)         26 d B BW (MHz)           OPSK         16QAM         64QAM         QPSK         16QAM         64QAM           2307.5         27685         4.4757         4.4822         4.9464         4.913         4.892         4.875           2310.0         27710         4.4711         4.4760         4.4823         4.916         4.895         4.888           2312.5         27735         4.4752         4.4781													
(MHz)         CH         QPSK         16QAM         64QAM         QPSK         16QAM         64QAM           816.5         26715         4.4775         4.4822         4.4895         4.950         4.909         4.920           819.0         26740         4.4750         4.4736         4.4850         4.921         4.887         4.919           821.5         26765         4.4780         4.4775         4.4839         4.915         4.904         4.911           LTE BAND 30 Channel bandwidth: 5MHz           Freq. (MHz)         CH         QPSK         16QAM         64QAM         QPSK         16QAM         64QAM           2307.5         27685         4.4757         4.4822         4.4946         4.913         4.892         4.875           2310.0         27710         4.4711         4.4760         4.4882         4.916         4.895         4.888		LTE E	BAND 26 fo	or part 90S	Channel b	and wid th:	5MHz						
(MHz)         QPSK         16QAM         64QAM         QPSK         16QAM         64QAM           816.5         26715         4.4775 <b>4.482 4.4895 4.950 4.909 4.920</b> 819.0         26740         4.4750         4.4736         4.4895 <b>4.921 4.887 4.919</b> 821.5         26765 <b>4.4780</b> 4.4775 <b>4.4839</b> 4.915 <b>4.904</b> 4.911           TEE BAND 30 Chan+U bandwidth: 5MHz           Freq. (MHz)         QPSK         16QAM         64QAM           2075.5         27685 <b>4.4757 4.4822 4.946</b> 4.913         4.892         4.875           2310.0         27710         4.4711         4.4760         4.4882         4.916         4.895         4.888	Freq.	сц	99	% BW (Mł	Hz)	26 dB BW (MHz)							
819.0         26740         4.4750         4.4736         4.4850         4.921         4.887         4.919           821.5         26765 <b>4.4780</b> 4.4775         4.4839         4.915         4.904         4.911           LTE BAND 30 Channel bandwidth: 5MHz           TFreq. (MHz)         CH         OPSK         160AM         640AM         OPSK         160AM         640AM         640AM	(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
821.5         26765         4.4780         4.4775         4.4839         4.915         4.904         4.911           LTE BAND 30 Channel bandwidth: 5MHz           Freq. (MHz)         26 dB BW (MHz)           OPSK         160AM         640AM         0PSK         160AM         640AM           2307.5         27685         4.4757         4.4822         4.4946         4.913         4.892         4.875           2310.0         27710         4.4711         4.4760         4.4882         4.916         4.895         4.888	816.5	26715	4.4775	4.4842	4.4895	4.950	4.909	4.920					
LTE BAND 30 Chan-el bandwidth: 5MHz           Freq. (MHz)	819.0	26740	4.4750	4.4736	4.4850	4.921	4.887	4.919					
Freq. (MHz)         CH         99% BW (MHz)         26 dB BW (MHz)           QPSK         16QAM         64QAM         QPSK         16QAM         64QAM           2307.5         27685         4.4757         4.4822         4.4946         4.913         4.892         4.875           2310.0         27710         4.4711         4.4760         4.4882         4.916         4.895         4.888	821.5	26765	4.4780	4.4775	4.4839	4.915	4.904	4.911					
(MHz)         CH         QPSK         16QAM         64QAM         QPSK         16QAM         64QAM           2307.5         27685         4.4757         4.4822         4.4946         4.913         4.892         4.875           2310.0         27710         4.4711         4.4760         4.4882         4.916         4.895         4.888			LTE BAND	D 30 Chanr	nel bandwi	dth: 5MHz							
(MHz)         OPSK         16OAM         64OAM         OPSK         16OAM         64OAM           2307.5         27685         4.4757         4.4822         4.4946         4.913         4.892         4.875           2310.0         27710         4.4711         4.4760         4.4882         4.916         4.895         4.888	Freq.	сц	99	% BW (Mł	Hz)	26	dB BW (M	Hz)					
2310.0         27710         4.4711         4.4760         4.4882         4.916         4.895         4.888	(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
	2307.5	27685	4.4757	4.4822	4.4946	4.913	4.892	4.875					
2312.5 27735 4.4752 4.4781 4.4843 <b>4.952 4.921 4.907</b>	2310.0	27710	4.4711	4.4760	4.4882	4.916	4.895	4.888					
	2312.5	27735	4.4752	4.4781	4.4843	4.952	4.921	4.907					

		LTE BAN	D 25 Chanr	nel bandwi	dth: 3MHz			
Freq.	СН	99	99% BW (MHz) 26 dB BW (MHz)					
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
1851.5	26055	2.6870	2.6845	2.6909	2.946	2.955	2.940	
1882.5	26365	2.6880	2.6886	2.6917	2.962	2.976	2.947	
1913.5	26675	2.6822	2.6849	2.6866	2.953	2.972	2.943	

		lte band	25 Chann	el bandwic	Ith: 10MHz			
Freq.	СН	99	% BW (Mł	Hz)	26 dB BW (MHz)			
(MHz)	GI	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
1855.0	26090	8.9578	8.9309	8.9437	9.686	9.690	9.702	
1882.5	26365	8.9684	8.9316	8.9476	9.667	9.698	9.682	
1910.0	26640	8.9529	8.9255	8.9390	9.688	9.630	9.650	

		lte band	25 Chann	el bandwic	th: 20MHz					
Freq.	СН	99	% BW (Mł	Hz)	26 dB BW (MHz)					
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
1860.0	26140	17.861	17.868	17.838	19.22	19.31	19.36			
1882.5	26365	17.865	17.878	17.910	19.20	19.24	19.49			
1905.0	26590	17.877	17.901	17.896	19.36	19.23	19.34			
		LTE BAN	D 26 Chanr	nel bandwi	dth: 3MHz					
Freq.	СН	99	% BW (Mł	lz)	26	dB BW (M	Hz)			
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
825.5	26805	2.6898	2.6909	2.6876	2.944	2.961	2.952			
836.5	26915	2.6869	2.6842	2.6892	2.922	2.943	2.944			
847.5	27025	2.6818	2.6886	2.6917	2.928	2.961	2.938			

1			lte band	26 Chann	el bandwic	lth: 10MHz			
	Freq.	СН	99	99% BW (MHz)			26 dB BW (MHz)		
	(MHz)	Сп	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
	829.0	26840	8.9544	8.9447	8.9433	9.694	9.652	9.717	
	836.5	26915	8.9456	8.9122	8.9395	9.671	9.595	9.754	
	844.0	26990	8.9709	8.9449	8.9516	9.731	9.633	9.718	

	LTE E	BAND 26 fo	r part 90S	Channel b	and wid th:	3MHz		
Freq.	СН	99	99% BW (MHz) 26 dB BW (MHz)					
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
815.5	26705	2.6895	2.6916	2.6814	2.935	2.968	2.950	
819.0	26740	2.6843	2.6894	2.6914	2.943	2.967	2.945	
822.5	26775	2.6844	2.6902	2.6899	2.948	2.967	2.936	

LTE BAND 26 for part 90S Channel bandwidth: 10MHz									
Freq.	СН	99	99% BW (MHz) 26 dB BW (I				Hz)		
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
819.0	26740	8.9654	8.9312	8.9470	9.682	9.680	9.730		

LTE BAND 30 Channel bandwidth: 10MHz										
Freq.	СН	99	99% BW (MHz) 26 dB BW (MHz)							
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
2310.0	27710	8.9527	8.9231	8.9387	9.725	9.634	9.679			

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LTE BAND 38 Channel bandwidth: 5MHz									
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)				
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
2572.5	37775	4.4790	4.4838	4.4800	4.897	4.888	4.905		
2595.0	38000	4.4767	4.4769	4.4795	4.912	4.900	4.893		
2617.5	38225	4.4787	4.4839	4.4811	4.884	4.888	4.897		

	LTE BAND 38 Channel bandwidth: 15MHz									
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)					
(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
2577.5	37825	13.443	13.415	13.394	14.44	14.54	14.40			
2595.0	38000	13.421	13.434	13.410	14.48	14.48	14.49			
2612.5	38175	13.421	13.421	13.407	14.42	14.41	14.46			
LTE BAND 41 Channel bandwidth: 5MHz										
		LIE BANI	J 4 I Chanr	nei bandwi	ain: Sivihz					
Freq.	СЦ		% BW (MF			dB BW (M	Hz)			
Freq. (MHz)	СН					dB BW (M 16QAM	Hz) 64QAM			
	CH 39675	99	% BW (Mł	łz)	26		,			
(MHz)		99 QPSK	% BW (Mi 16QAM	iz) 64QAM	26 QPSK	16QAM	64QAM			

	LTE BAND 41 Channel bandwidth: 15MHz								
Freq.	СН	99	% BW (Mł	Hz)	26	dB BW (M	Hz)		
(MHz)	-	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
2503.5	39725	13.469	13.420	13.408	14.55	14.47	14.51		
2593.0	40620	13.448	13.414	13.399	14.46	14.41	14.42		
2682.5	41515	13.469	13.456	13.416	14.43	14.54	14.39		
	l	_TE BAND	66 Channe	el bandwid	th: 1.4MHz	7			
Freq.	СН	99	% BW (Mł	Hz)	26 dB BW (MHz)				
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
1710.7	131979	1.0866	1.0864	1.0839	1.230	1.215	1.217		
1745.0	132322	1.0855	1.0832	1.0841	1.212	1.219	1.220		
1779.3	132665	1.0866	1.0836	1.0836	1.218	1.221	1.223		

LTE BAND 66 Channel bandwidth: 5MHz									
Freq.	СН	99	99% BW (MHz)			26 dB BW (MHz)			
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
1712.5	131997	4.4729	4.4742	4.4902	4.920	4.939	4.914		
1745.0	132322	4.4770	4.4802	4.4819	4.920	4.939	4.906		
1777.5	132647	4.4785	4.4762	4.4829	4.915	4.916	4.935		

-										
	LTE BAND 66 Channel bandwidth: 15MHz									
Freq.	СН	99% BW (MHz)			26	dB BW (M	Hz)			
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
1717.5	132047	13.394	13.416	13.389	14.02	14.52	14.55			
1745.0	132322	13.417	13.432	13.394	14.57	14.51	14.56			
1772.5	132597	13.441	13.409	13.409	14.57	14.52	14.55			

	LTE BAND 38 Channel bandwidth: 10MHz										
Freq.	СН	99% BW (MHz) 26 dB BW (M					Hz)				
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
2575.0	37800	8.9644	8.9427	8.9571	9.639	9.646	9.750				
2595.0	38000	8.9550	8.9371	8.9521	9.619	9.652	9.676				
2615.0	38200	8.9712	8.9417	8.9510	9.704	9.649	9.663				

	LTE BAND 38 Channel bandwidth: 20MHz								
Freq.	СН	99	% BW (Mł	lz)	26 dB BW (MHz)				
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
2580.0	37850	17.865	17.900	17.881	19.18	19.20	19.35		
2595.0	38000	17.857	17.859	17.861	19.25	19.14	19.37		
2610.0	38150	17.877	17.907	17.838	19.14	19.23	19.34		
		lte band	41 Chann	el bandwic	Ith: 10MHz				
Freq.	СН	99	% BW (Mł	lz)	26 dB BW (MHz)				
(MHz)	GI	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
2501.0	39700	8.9416	8.9397	8.9552	9.704	9.643	9.727		
2593.0	40620	8.9647	8.9433	8.9596	9.683	9.664	9.720		
2685.0	41540	8.9760	8.9529	8.9648	9.685	9.673	9.699		

	LTE BAND 41 Channel bandwidth: 20MHz								
Freq.	СН	99	99% BW (MHz)			26 dB BW (MHz)			
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
2506.0	39750	17.854	17.886	17.850	19.26	19.20	19.31		
2593.0	40620	17.870	17.866	17.855	19.22	19.15	19.34		
2680.0	41490	17.886	17.879	17.869	19.19	19.15	19.13		
		LTE BAND	D 66 Chanr	nel bandwi	dth: 3MHz				
Freq.	СН	99	% BW (Mł	Hz)	26 dB BW (MHz)				
(MHz)	GI	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
1711.5	131987	2.6873	2.6873	2.6850	2.950	2.962	2.945		
1745.0	132322	2.6846	2.6901	2.6855	2.958	2.974	2.925		
1778.5	132657	2.6866	2.6918	2.6918	2.948	2.969	2.943		

LTE BAND 66 Channel bandwidth: 10MHz								
Freq.	СН	99	99% BW (MHz)			26 dB BW (MHz)		
(MHz)	GI	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
1715.0	132022	8.9448	8.9240	8.9372	9.715	9.706	9.698	
1745.0	132322	8.9531	8.9266	8.9351	9.699	9.663	9.704	
1775.0	132622	8.9473	8.9178	8.9394	9.612	9.680	9.701	

	LTE BAND 66 Channel bandwidth: 20MHz								
Freq.	СН	99	99% BW (MHz)			26 dB BW (MHz)			
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
1720.0	132072	17.831	17.834	17.849	19.25	20.40	19.10		
1745.0	132322	17.884	17.880	17.861	19.22	19.29	19.26		
1770.0	132572	17.881	17.901	17.727	19.20	19.32	18.67		

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1											
	LTE BAND 71 Channel bandwidth: 5MHz										
	Freq.	СН	99% BW (MHz)			26 dB BW (MHz)					
	(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
	665.5	133147	4.4855	4.4849	4.4922	4.927	4.909	4.913			
	680.5	133297	4.4835	4.4728	4.4921	4.938	4.942	4.910			
	695.5	133447	4.4740	4.4780	4.4861	4.931	4.908	4.887			

		lte band	71 Chann	el bandwic	Ith: 15MHz		
Freq.	СН	99	% BW (Mł	lz)	26 dB BW (MHz)		
(MHz)	CIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
670.5	133197	13.382	13.360	13.345	14.39	14.41	14.41
680.5	133297	13.437	13.451	13.436	14.47	14.58	14.49
690.5	133397	13.378	13.397	13.393	14.47	14.53	14.52

L	LTE BAND 71 Channel bandwidth: 10MHz											
Γ	Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
L	(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
Γ	688.0	133172	8.9441	8.9329	8.9425	9.664	9.611	9.676				
Γ	680.5	133297	8.9621	8.9297	8.9434	9.758	9.684	9.725				
Γ	693.0	133422	8.9516	8.9163	8.9253	9.637	9.614	9.668				

LTE BAND 71 Channel bandwidth: 20MHz									
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)				
(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
673.0	133222	17.762	17.804	17.771	19.06	19.15	19.26		
680.5	133297	17.914	17.887	17.900	19.09	19.23	19.34		
688.0	133372	17.837	17.837	17.829	19.11	19.16	19.36		

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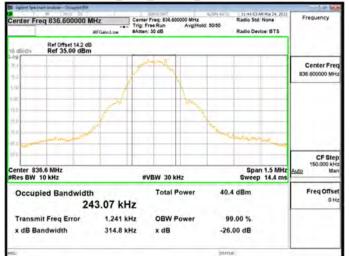


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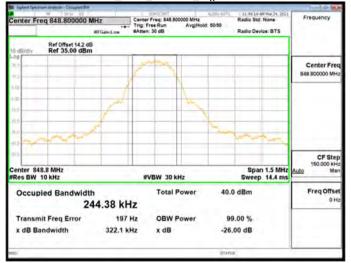
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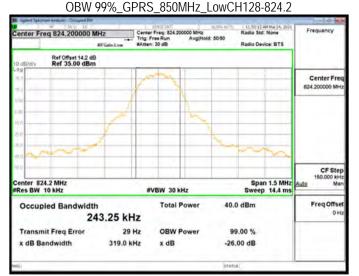


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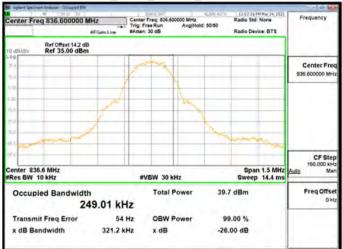


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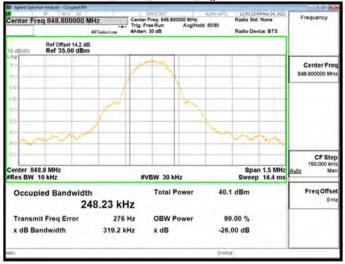




OBW 99% GPRS\_850MHz\_MidCH190-836.6



#### OBW 99%\_GPRS\_850MHz\_HighCH251-848.8



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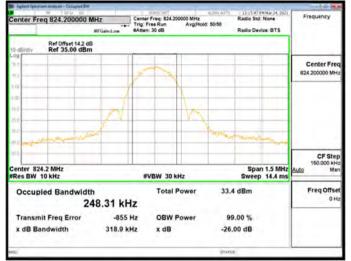
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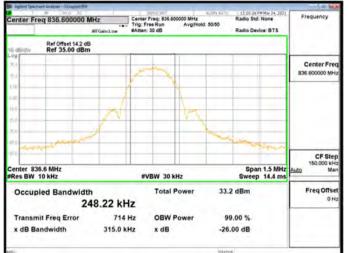


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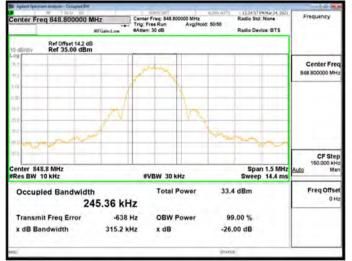
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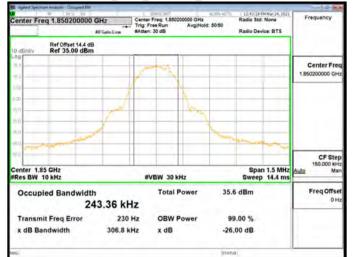
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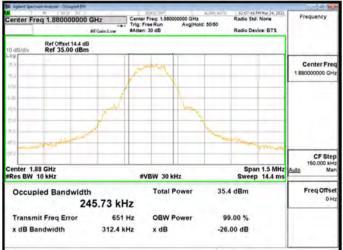
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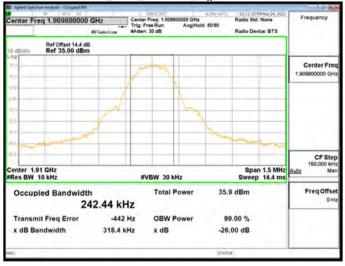
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### OBW 99%\_GSM\_1900MHz\_MidCH661-1880



#### OBW 99%\_GSM\_1900MHz\_HighCH810-1909.8



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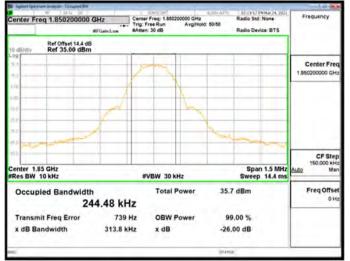
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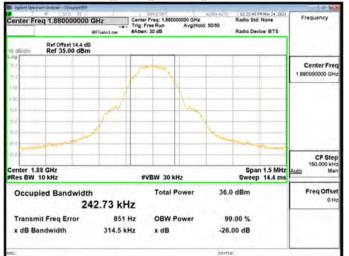


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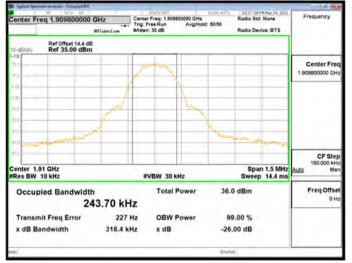
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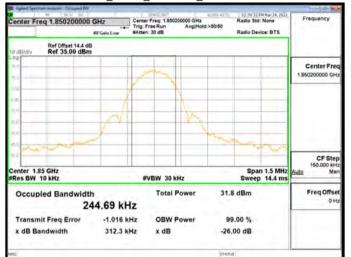
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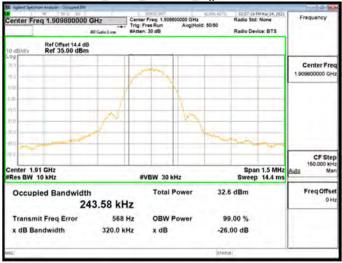
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### OBW 99% EDGE 1900MHz MidCH661-1880



#### OBW 99%\_EDGE\_1900MHz\_HighCH810-1909.8



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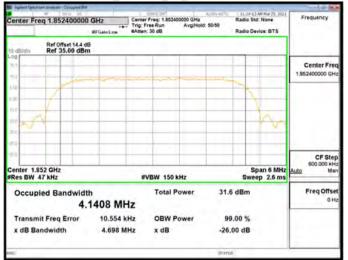
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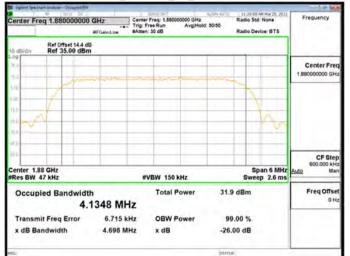


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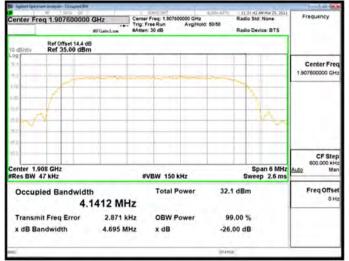
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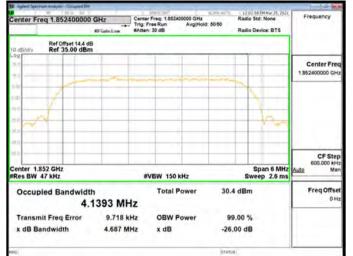
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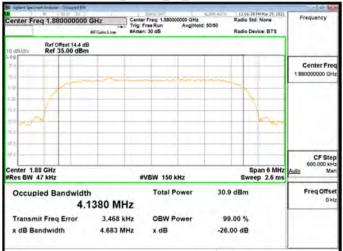
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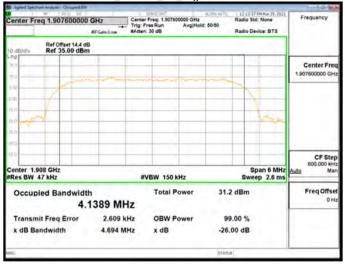
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#### OBW 99% HSDPA B2 MidCH9400-1880



#### OBW 99%\_HSDPA\_B2\_HighCH9538-1907.6



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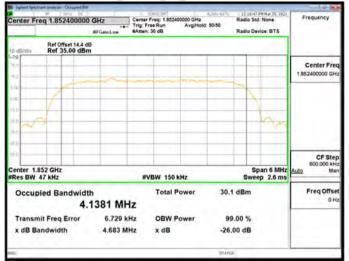
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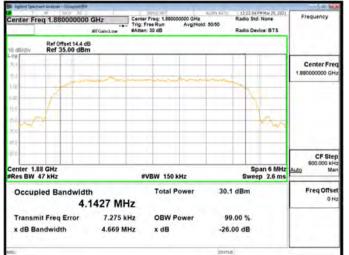


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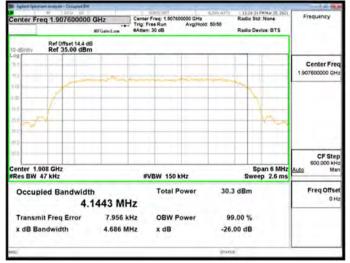
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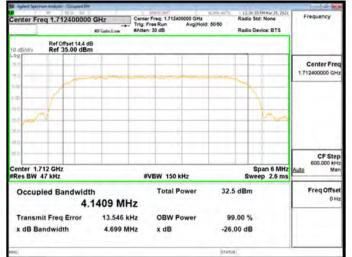
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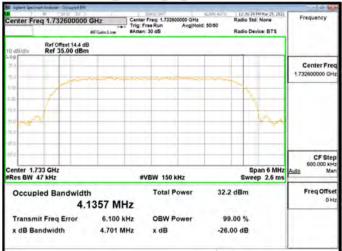
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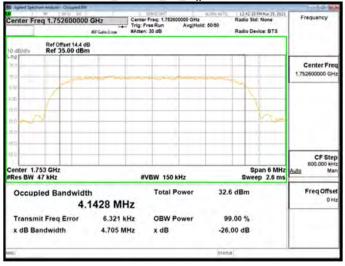
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### OBW 99% WCDMA B4 MidCH1413-1732.6



#### OBW 99%\_WCDMA\_B4\_HighCH1513-1752.6



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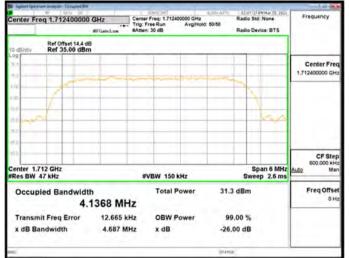
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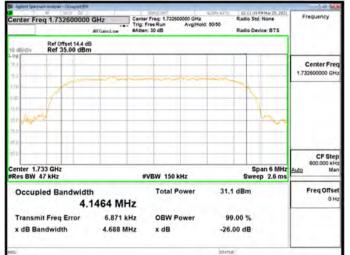


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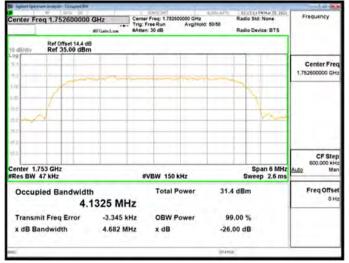
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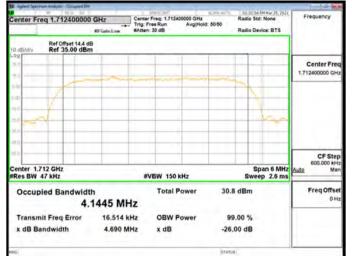
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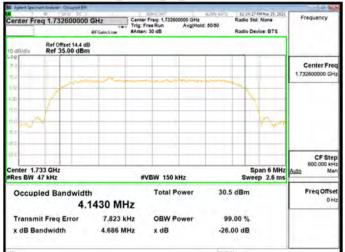
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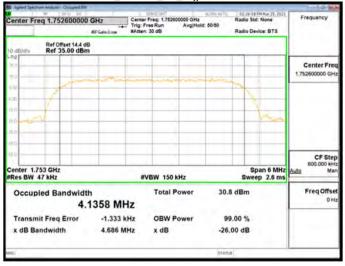
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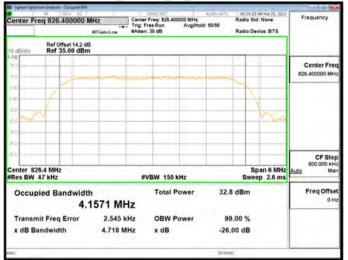
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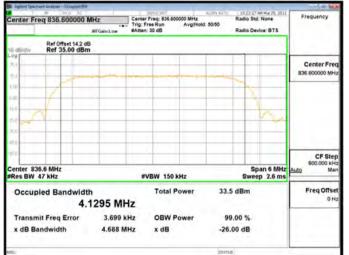


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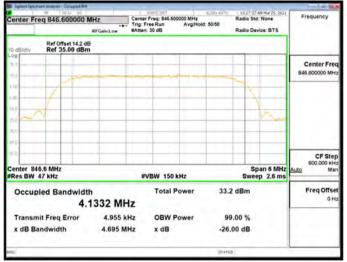
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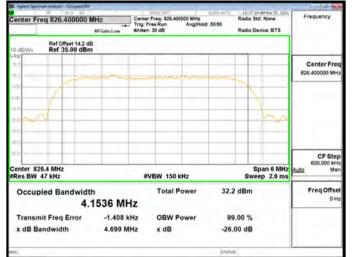
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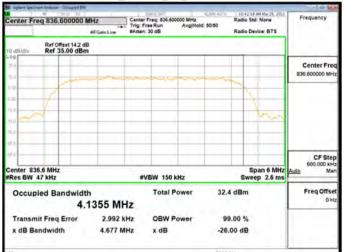
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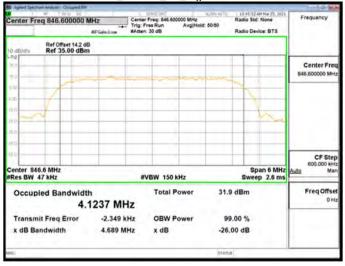
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#### OBW 99% HSDPA B5 MidCH4183-836.6



### OBW 99%\_HSDPA\_B5\_HighCH4233-846.6



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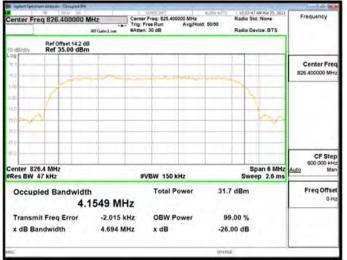
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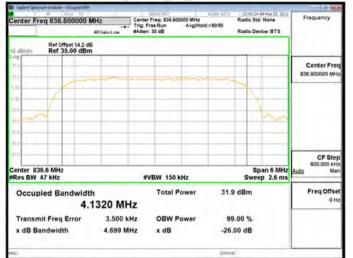
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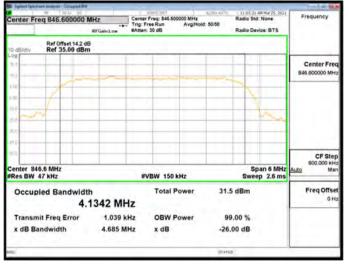
### OBW 99%\_HSUPA\_B5\_LowCH4132-826.4



#### OBW 99% HSUPA B5 MidCH4183-836.6



#### OBW 99%\_HSUPA\_B5\_HighCH4233-846.6



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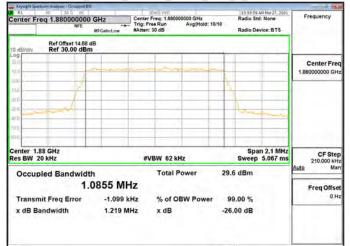


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### OBW\_Band2\_1.4MHz\_QPSK\_RB6\_0\_CH18607

H AL	rum Analyzer - Occupied Wi PF 59 0 0c 1 eq 1.850700000 NFE	Trig	SUMPLEUM ner Freg: 1.850700 p: Free Run ten: 30 dB	000 GHz Avg Hold: 10/10	Radio Std		Frequency
10 dBidiv	Ref Offset 14.68 d Ref 34.68 dBm						-
247 147							Center Free 1.850700000 GH
4.82	4				1		
15.3 15.3 cm/ www.					han	nolim	
£53							
Center 1.8 Res BW 20			#VBW 62 kH	2	Spa Sweep	n 2.1 MHz 5.067 ms	CF Ste 210.000 kH
Occupi	ied Bandwidth 1.0	0850 MHz	Total Po	ower	29.3 dBm		Auto Mar Freg Offse
	it Freq Error Indwidth	-1.484 kHz 1.224 MHz	% of OB x dB	W Power	99.00 % -26.00 dB		он
tess					STATUT		_

#### OBW\_Band2\_1.4MHz\_QPSK\_RB6\_0\_CH18900



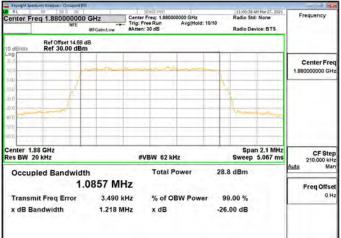
## OBW Band2 1.4MHz OPSK RB6 0 CH19193

Keysight Spectro	HF 30 0 DC		SENSE: INT	10:59:40 AM Mar 27, 202	21.		
Center Fre	q 1.909300000 NFE	Trig. 1	r Freq: 1.909300000 GHz Free Run Avg Hold:>10 h: 30 dB	Radio Std: None Radio Device: BTS	Frequency		
Ref Offset 14.68 dB 10 dB/div Ref 30.00 dBm							
20.0			in	4	Center Free 1.909300000 GH		
0.00 10.0	1			N			
0.0 30.0	mont				-		
0 0 50 0							
Center 1.90	D9 GHz			Span 2.1 MH	2		
Res BW 20			VBW 62 kHz	Sweep 5.067 m	210.000 kH		
Occupi	ed Bandwidth		Total Power	29.7 dBm	Auto Mar		
Transmi	1	-1.372 kHz	% of OBW Power	99.00 %	Freq Offse		
		1.217 MHz	x dB	-26.00 dB			
Hai.				TATUS			

#### OBW Band2 1.4MHz 16QAM RB6 0 CH18607



#### OBW\_Band2\_1.4MHz\_16QAM\_RB6\_0\_CH18900



### OBW Band2 1.4MHz 16OAM RB6 0 CH19193

AL	RF 130 G OC 1 RF 130 G OC 1 RF 1.9093000000 NFE	Trig	SENSE:INT ter Freq: 1.90930 Free Run en: 30 dB	0000 GHz Avg Hold: 10/1	10	11:00:58 4 Radio Std		Frequency
0 devdiv	Ref Offset 14.68 di Ref 30.00 dBm	B	en: 30 dib		_	Radio Dei	ice B13	
0.0					-			Center Free 1.909300000 GH
000 0.07	1				N			
10	anima					Lee,	in Amora	
00								
enter 1.9 es BW 2		1 - 1 	#VBW 62 kH	z	-		n 2.1 MHz 5.067 ms	CF Ste 210.000 kH
Occup	ied Bandwidth 1.0	) 836 MHz	Total P	ower	28.8	3 dBm		Auto Ma
	1	2.747 kHz 1.219 MHz	% of OE x dB	W Power		0.00 %		Freq Offse 0 H
		in to mile	A GB		20.			
0					TTATU			

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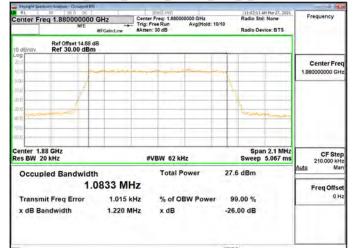


## Report No.: ER/2021/20010 Page: 112 of 465

### OBW\_Band2\_1.4MHz\_64QAM\_RB6\_0\_CH18607

Center Fre	eq 1.850700000 NFE	-+-	Center Freq: 1.850700000 GHz Trig: Freq: 1.850700000 GHz Trig: Freq: Nature Run AvgiHold:>10/10 #Atten: 30 dB			Radio Device: BTS		Frequency
10 dBidiv	Ref Offset 14.68 d Ref 34.68 dBm	-						
247 147			~~~~		~			Center Fred 1.850700000 GH:
182	1				X			
53	and .					Law		
15 3 85 3								
Center 1.8 Res BW 2			#VBW 62	kHz			1 2.1 MHz 5.067 ms	CF Step 210.000 kH
Occup	ied Bandwidth 1.(	851 MH		Power	27.3	dBm		Auto Mar Freq Offset
	iit Freq Error andwidth	501 H 1.219 MH		OBW Power		.00 % 00 dB		ан
\$3					STATUS			

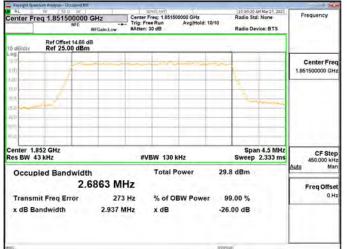
#### OBW\_Band2\_1.4MHz\_64QAM\_RB6\_0\_CH18900



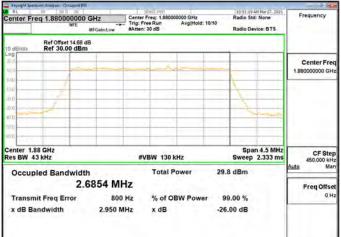
## OBW Band2 1.4MHz 64OAM RB6 0 CH19193

	num Analyzer - Occupied BVI					1014
Center Fre	eq 1.909300000 NFE	Trig.	sense INT er Freq: 1.909300000 GHz Free Run Avg Hold n: 30 dB	1: 10/10	Radio Std: None Radio Device: BTS	Frequency
10 devdiv	Ref Offset 14.68 dl Ref 34.68 dBm			5		
147 147		-				Center Free 1.909300000 GH
4.10 14.1	1					
83 83 453	- mark				- mar	
Center 1.9 Res BW 20			≢VBW 62 kHz		Span 2.1 MHz Sweep 5.067 ms	
Occupi	ied Bandwidth 1.0	857 MHz	Total Power	27.8	dBm	Auto Mar Freg Offse
	it Freq Error Indwidth	969 Hz 1.222 MHz	% of OBW Pow x dB		.00 % 00 dB	0H
teŭ j				TATUS		

### OBW\_Band2\_3MHz\_QPSK\_RB15\_0\_CH18615



#### OBW\_Band2\_3MHz\_QPSK\_RB15\_0\_CH18900



### OBW Band2 3MHz OPSK RB15 0 CH19185

AL E	F 20 G 00 PM	GHz Cen	SENSE:INT ter Freq: 1.90850 I Free Run ten: 30 dB	Radio Sto	AM Mar 27, 2021 d: None vice: BTS	Frequency	
10 dEvdiv	Ref Offset 14.68 d Ref 34.68 dBm						100
247 147	-		_				Center Free 1.908500000 GH
1.10 (5.1					X		
5.3 53 143	2						
Center 1.9 Res BW 43			#VBW 130 k	Hz		n 4.5 MHz 2.333 ms	CF Ste 450.000 kH
Occupi	ied Bandwidth	873 MHz	Total P	ower	30.1 dBm		Auto Ma
	it Freq Error ndwidth	2 Hz 2.940 MHz	% of OI x dB	BW Power	99.00 % -26.00 dB		Freq Offse 0 H
90)					TATUS		

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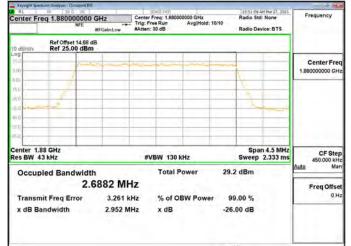


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### OBW\_Band2\_3MHz\_16QAM\_RB15\_0\_CH18615

Center Fre	eq 1.851500000 (NFE	Trig.	Center Freq: 1.851500000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB			44 Mar 27, 2021 d: None vice: BTS	Frequency
10 dBidiv	Ref Offset 14.68 di Ref 34.68 dBm	_					
247 147	-		here		-		Center Free 1.851500000 GH
488 1.20 191	1						
\$3 \$3	and the		1 1 2		2	-	
153							
Center 1.8 Res BW 4			#VBW 130 k	Hz		n 4.5 MHz 2.333 ms	CF Ster 450.000 kH
Occup	ied Bandwidth 2.6	869 MHz	Total P	29.1 dBm		Auto Mar Freg Offse	
	it Freq Error Indwidth	2.675 kHz 2.969 MHz	% of OE x dB	3W Power	99.00 % -26.00 dB		OH
653					STATION		

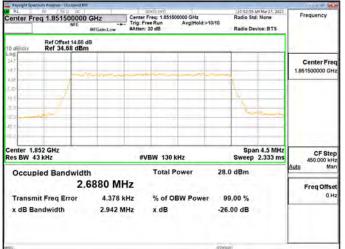
#### OBW\_Band2\_3MHz\_16QAM\_RB15\_0\_CH18900



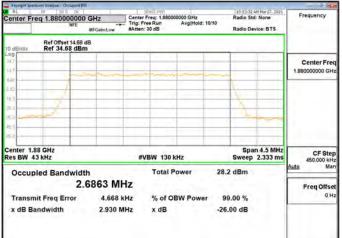
## OBW Band2 3MHz 16OAM RB15 0 CH19185

Keysight Spec	RF 1 20 G 0C		SENSE: INT			0/52:18 AM Mar 27, 2021	2 A 10
	eq 1.908500000	GHz Cente	Center Freq: 1.908500000 GHz Trig: Free Run AvgiHold:>10/10 #Atten: 30 dB			idio Std: None	Frequency
10 dEvdiv							
202	-		-		-		Center Free 1.908500000 GH
0.000 10.00 10.00	1				X		
0.0 0.0	-					-	
50.0 60.0			_		-		
Center 1.9 Res BW 4			VBW 130	kHz	S	Span 4.5 MHz weep 2.333 ms	CF Ster 450.000 kH
Occup	bied Bandwidth 2.6	869 MHz	Total F	Power	29.4 di	Bm	Auto Mar Freq Offse
		351 Hz 2.956 MHz	% of O x dB	BW Power	99.00 -26.00		он
eq.					πλάτωσ		

#### OBW\_Band2\_3MHz\_64QAM\_RB15\_0\_CH18615



#### OBW\_Band2\_3MHz\_64QAM\_RB15\_0\_CH18900



### OBW Band2 3MHz 64OAM RB15 0 CH19185

AL E	1.908500000	GHz Ce	sense mm enter Freq: 1.9085	00000 GHz Avg Hold > 10/	Radio St	4M Mar 27, 2021 d: None	Frequency
	NFE	11	ig: Free Run Itten: 30 dB		vice: BTS		
O devalv	Ref Offset 14.68 dl Ref 34.68 dBm						
.0g 247 187		al and					Center Free 1.908500000 GH
(2) 1,0 (; 1)	1				1		
\$.1 63	J.				1		
413							
center 1.9 tes BW 43			#VBW 130	kHz		n 4.5 MHz 2.333 ms	CF Ste 450.000 kH
Occupi	ied Bandwidth	908 MHz	Total F	28.4 dBm		<u>Auto</u> Mar	
Transm		5.976 kHz		BW Power	99.00 %		Freq Offse 0 H
x dB Ba	ndwidth	2.940 MHz	x dB		-26.00 dB		
si)					TATUS		

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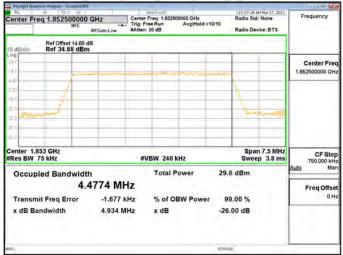
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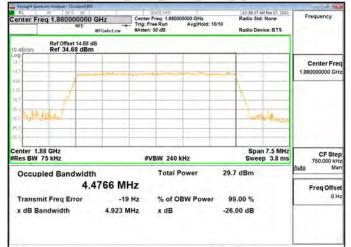


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### OBW\_Band2\_5MHz\_QPSK\_RB25\_0\_CH18625



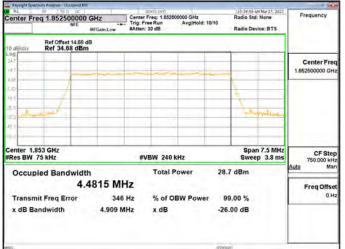
#### OBW\_Band2\_5MHz\_QPSK\_RB25\_0\_CH18900



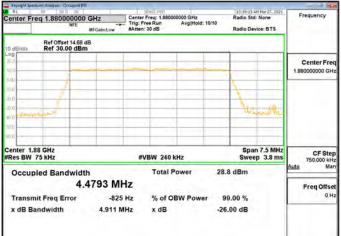
## OBW Band2 5MHz OPSK RB25 0 CH19175

etrum Analyzer - Occupied B/I		sturned	10.00.00 00 00.00 0000				
req 1.907500000	GHz Center	Freq: 1.907500000 GHz Free Run Avg Hold: 1	Radio Std: None	Frequency			
Ref Offset 14.68 dB 10 dB/div Ref 30.00 dBm							
				Center Free 1.907500000 GH			
1			1				
de la			Mulan				
908 GHz 75 kHz	,	VBW 240 kHz	Span 7.5 MHz Sweep 3.8 ms	750.000 kH			
a canada ana ang ang ang ang ang ang ang ang an		Total Power	29.9 dBm	Auto Man			
nit Freq Error	112 Hz	% of OBW Power x dB	99.00 % -26.00 dB	Freq Offse 0 H			
			manual.				
	PE 197500000 Req 1907500000 NFE Ref Offset 14.68 dl Ref 30.00 dBm 908 GHz 75 kHz Died Bandwidth 4,4	eq 1.907 0000 GHz NE articleur frei f Ref offset 14.88 dB Ref 30.00 dBm 908 GHz 75 kHz # bied Bandwidth 4.4747 MHz	PS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PS 20 0 C C C C C C C C C C C C C C C C C			

#### OBW\_Band2\_5MHz\_16QAM\_RB25\_0\_CH18625



#### OBW\_Band2\_5MHz\_16QAM\_RB25\_0\_CH18900



### OBW Band2 5MHz 16OAM RB25 0 CH19175

RL	Reg 1.907500000	GHz Cen	SEMSE:INT ter Freq: 1.907500	000 GHz Avg Hold; 10/10	10:39:34 A Radio Std	H Mar 27, 2021	Frequency
]	NFE	Trig	Free Run en: 30 dB	Radio Dev	ice: BTS		
0 devaiv	Ref Offset 14.68 dl Ref 30.00 dBm	В			-		
.0g 20.0 					-		Center Fre 1.907500000 GH
0.00 0.0 0.0	1				1		
	and				1	- deint	
00			_		_		
enter 1.9 Res BW			#VBW 240 ki	Hz		7.5 MHz p 3.8 ms	CF Ste 750.000 kH
Occup	ied Bandwidth	826 MHz	Total Po	ower 2	8.9 dBm		Auto Ma
Transm	it Freq Error	-3.099 kHz	% of OB	W Power	99.00 %		Freq Offse 0 H
x dB Ba	ndwidth	4.909 MHz	x dB	-	6.00 dB		
(i)					ATU/II (		

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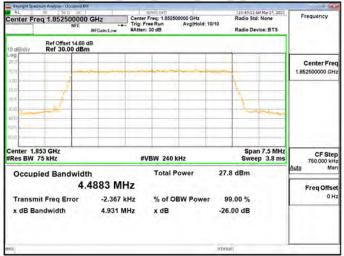
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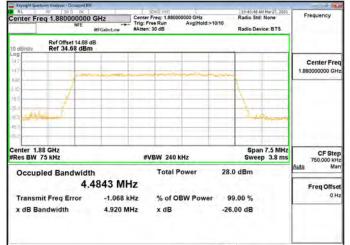


# Report No.: ER/2021/20010 Page: 115 of 465

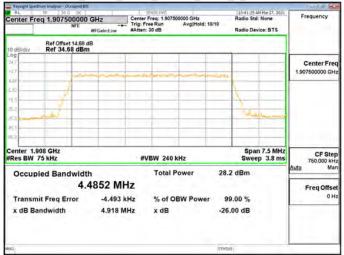
### OBW\_Band2\_5MHz\_64QAM\_RB25\_0\_CH18625



#### OBW\_Band2\_5MHz\_64QAM\_RB25\_0\_CH18900



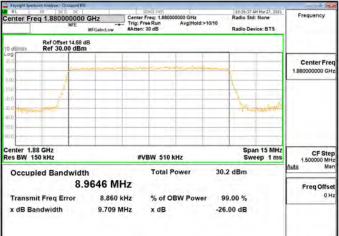
#### OBW Band2 5MHz 64QAM RB25 0 CH19175



#### OBW Band2 10MHz QPSK RB50 0 CH18650

Keypight Spec	atrum Analyzer - Occupied EM		T SENSI-INT		10:36:17 AM Mar 27, 20	21
Center Fro	eq 1.855000000	UTIL	Center Freq: 1.8550 Trig: Free Run #Atten: 30 dB	00000 GHz AvgiHold: 10/10	Radio Std: None Radio Device: BTS	Frequency
0 dBidiv	Ref Offset 14.68 c Ref 30.00 dBm					
00 0.0	-		-		-	Center Free 1.855000000 GH
0.0	1					
00	ment				3 Adamas	
						-
enter 1.8 es BW 1			#VBW 510	kHz	Span 15 Mi Sweep 1 n	1.500000 MH
Occup	ied Bandwidt	h 9442 MH:	Total I	Power 3	0.1 dBm	Auto Mar
	nit Freq Error	12.638 kH	z % of O	BW Power	99.00 %	Freq Offse 0.H
x dB Ba	andwidth	9.686 MH	z xdB		26.00 dB	
					almail	

#### OBW Band2 \_10MHz\_QPSK\_RB50\_0\_CH18900



### OBW Band2 10MHz OPSK RB50 0 CH19150

Center Fre	eq 1.905000000 NFE	Trig	SENSE: INT Center Freq: 1.905000000 GHz Trig: Free Run AvgiHold; 10/10 #Atten: 30 dB		10:27:16 AM Mar 27, 2021 Radio Std: None Radio Device: BTS		Frequency
10 devdiv	Ref Offset 14.68 d Ref 34.68 dBm						
.og 017 147 4.88	-						Center Free 1.905000000 GH
1.10 1911	1				X		
53 473					~~~		
Center 1.9 Res BW 1			#VBW 510 kHz	5		n 15 MHz eep 1 ms	CF Ste 1.500000 MH
Occupied Bandwidth 8.9505 MH			Total Pow	0.3 dBm		Auto Mar Freg Offse	
	it Freq Error Indwidth	10.619 kHz 9.709 MHz	% of OBW x dB		99.00 % 26.00 dB		01
90				10	ATUS		

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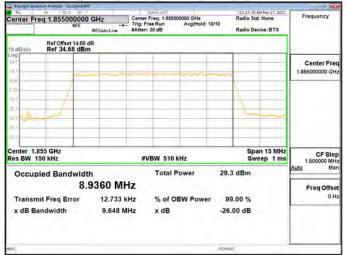
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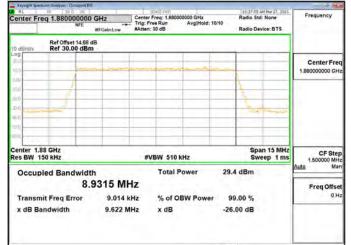


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#### OBW\_Band2\_10MHz\_16QAM\_RB50\_0\_CH18650



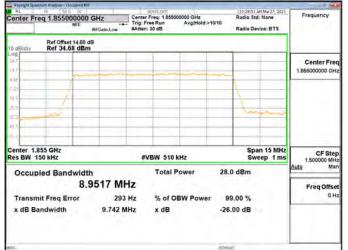
#### OBW\_Band2\_10MHz\_16QAM\_RB50\_0\_CH18900



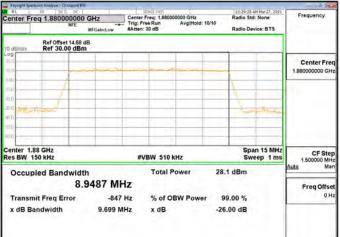
### OBW Band2 10MHz 16QAM RB50 0 CH19150

RL	PF 130 0 00 000000		SEMSE:INT Center Freq: 1.90500 Trig: Free Run	00000 GHz Avg Hold > 10/1	10:28:15 AM Mar 27, 2021 Radio Std: None	Frequency
	NFE		#Atten: 30 dB		Radio Device: BTS	
10 devdiv	Ref Offset 14.68 dl Ref 34.68 dBm	в				1
147 147					~	Center Free 1.905000000 GH
1.10 19.1	1					
5.1 (5.1)	and the second				-Manna	
63						
Center 1.9 Res BW 1			#VBW 510	kHz	Span 15 MHz Sweep 1 ms	CF Step 1.500000 MHz Auto Mar
Occup	ied Bandwidth 8.9	282 MH	Total F	ower	29.5 dBm	
	iit Freq Error andwidth	4.953 kH 9.640 MH		BW Power	99.00 % -26.00 dB	он
90					TATUS	

#### OBW\_Band2\_10MHz\_64QAM\_RB50\_0\_CH18650



#### OBW\_Band2\_10MHz\_64QAM\_RB50\_0\_CH18900



### OBW Band2 10MHz 64OAM RB50 0 CH19150

Keysight Turer	num Analyze - Occupied B/I		SENSEINT			Mar 27, 2021	
	eq 1.905000000 NFE	Trig.	Center Freq: 1.905000000 GHz		Radio Std: None Radio Device: BTS		Frequency
10 devdiv	Ref Offset 14.68 d Ref 30.00 dBm						
20.0 10.0							Center Free 1.905000000 GH
0.001 10.01	1				1		
0.0					The	and seal of	
9010				-		_	
Center 1.9 Res BW 1			WBW 510 kHz			15 MHz ep 1 ms	CF Ster 1.500000 MH
Occup	ied Bandwidt	h 9526 MHz	Total Power 28.3 dBm			Auto Ma	
	it Freq Error	654 Hz 9.717 MHz	% of OBW Po		9.00 % 5.00 dB		Freq Offse 0 H
		VI II MILE	6 MM				
90				TTAT	and in the second se		

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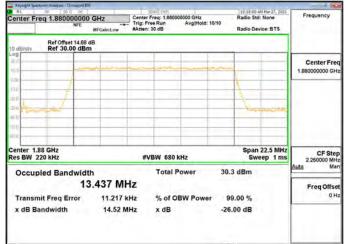


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### OBW\_Band2\_15MHz\_QPSK\_RB75\_0\_CH18675

H AL	erum Analyser - Occubied IM 16 56 p occ 1 eq 1.857500000 NFE	GHz	Streff: urf Center Freq: 1.857 Trig: Free Run #Atten: 30 dB	500000 GHz Avg Hold: 10	Radio Std		Frequency
10 dBidiy	Ref Offset 14.68 d Ref 30.00 dBm	B					-
100 20.0	-						Center Free 1.857500000 GH
0.00 10,0 10.0	1						
40.0		-			-		
60 C.							
Center 1.8 Res BW 23			#VBW 680	kHz		22.5 MHz ep 1 ms	CF Step 2.250000 MH
Occup	ied Bandwidtl 13	h .436 MH		Power	30.1 dBm		Auto Mar Freg Offset
	hit Freq Error Andwidth	15.939 kH 14.45 MH	z % of (	DBW Power	99.00 % -26.00 dB		0H:
685					574100		

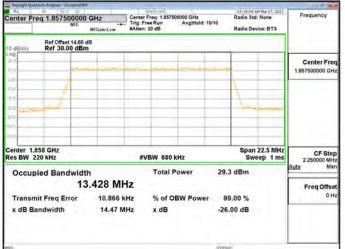
#### OBW\_Band2\_15MHz\_QPSK\_RB75\_0\_CH18900



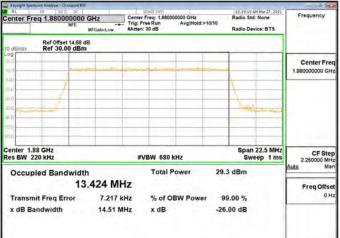
### OBW Band2 15MHz OPSK RB75 0 CH19125

Keysight Spect	num Analyzer - Occupied B/I		SENSE: INT			
	eq 1.902500000 NFE	Trig.	Center Freq: 1.902500000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB		Radio Std: None Radio Device: BTS	Frequency
10 devdiv	Ref Offset 14.68 d Ref 30.00 dBm				4	
10.0 10.0			Center Free 1.902500000 GH			
0.000 01.07 01.07	1				1	
20.0 20.0					- des	••••
60.0						
Center 1.9 Res BW 22		1	VBW 680 kH	Iz	Span 22.5 M Sweep 1	ms 2.250000 MH
Occupi	ied Bandwidtl 13	.408 MHz	Total Po	wer	30.5 dBm	Auto Mar Freg Offse
	it Freq Error Indwidth		% of OB x dB	W Power	99.00 % 26.00 dB	он
leg i					TATLA	

#### OBW\_Band2\_15MHz\_16QAM\_RB75\_0\_CH18675



#### OBW\_Band2\_15MHz\_16QAM\_RB75\_0\_CH18900



### OBW Band2 15MHz 16OAM RB75 0 CH19125

AL RF Soc oc Center Freq 1.902500000 GHz NFE RFGainLow			Center Freq: 1.902500000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB		Radio Device: BT	Frequency
10 dEvdiv	Ref Offset 14.68 Ref 34.68 dBn	HB N			5	
047 147						Center Free 1.902500000 GH:
1.10	1					
8.3 83 83				-	- Longe	
8.3						
center 1. Res BW 2		1	#VBW 680 kHz		Span 22.5 I Sweep 1	ms 2.250000 MH
Occup	bied Bandwidt	h 3.403 MHz	Total Power	29	.5 dBm	Auto Ma
	nit Freq Error	-10.384 kHz	% of OBW Po		99.00 %	Freq Offse 0 H
x dB B	andwidth	14.58 MHz	x dB	-2	5.00 dB	
90.					nén (	

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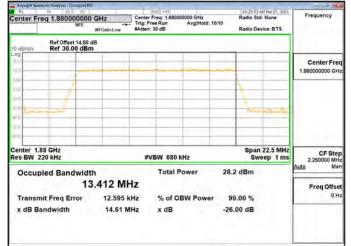


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### OBW\_Band2\_15MHz\_64QAM\_RB75\_0\_CH18675

Center Fre	eq 1.857500000 NFE	Trig:	sterst: twill er Freq: 1.857500000 GHz Free Run AvgiHold: m: 30 dB	10:20:15 44 Mar 27, 202 Radio Std: None 10/10 Radio Device: BTS	Frequency
10 dBidiy	Ref Offset 14.68 di Ref 34.68 dBm				
247 147	-				Center Fre 1.857500000 GH
1.0 (9.1	1				
53 53 193	ne i			- Anna	
Center 1.8 Res BW 2			#VBW 680 kHz	Span 22.5 MH Sweep 1 m	UF SIC
	ied Bandwidth	Same	Total Power	28.2 dBm	2 250000 MH Auto Ma
	13. hit Freq Error andwidth	.418 MHz 6.573 kHz 14.50 MHz	% of OBW Powe x dB	r 99.00 % -26.00 dB	Freq Offse 0 H
				STATOR	

#### OBW\_Band2\_15MHz\_64QAM\_RB75\_0\_CH18900



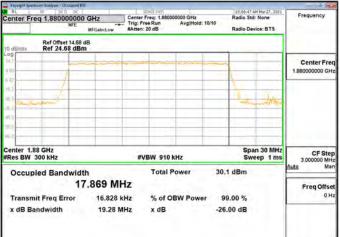
## OBW Band2 15MHz 64OAM RB75 0 CH19125

AL E	ectrum Analyzer - Occupied BVI RF 50 G 0C		SENSEINT		10:21:29 AM Mar 27,	2021
Center F	req 1.902500000 ( NFE	Trig.	Free Run Avg Ho 1: 30 dB	ld: 10/10	Radio Std: None Radio Device: BT	Frequency S
10 dEVdiv	Ref Offset 14.68 dB Ref 34.68 dBm	3				1
247	-		-			Center Free 1.902500000 GH:
1.0 191	1					
453 453					and the	-
Center 1. Res BW	.903 GHz 220 kHz		VBW 680 kHz		Span 22.5 M Sweep 1	ms 2.250000 MH
Occu	pied Bandwidth 13	412 MHz	Total Power	28	.4 dBm	Auto Mar Freg Offse
	mit Freq Error Bandwidth		% of OBW Pov x dB		99.00 % 5.00 dB	он
teŭ i				II YAI	D/II	

#### OBW\_Band2\_20MHz\_QPSK\_RB100\_0\_CH18700

Knypight Spec	trum Analyzer - Occupied EM		T SINGLINE		210	(06:28 AM Mar 27, 2021	
Center Fre	eq 1.860000000 NFE	Tr	Center Freq: 1.86000000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 20 dB		Rad	lio Std: None	Frequency
vibidio 0	Ref Offset 14.68 d Ref 24.68 dBn						
og. 147	-		~		-		Center Fre 1.86000000 GH
10 53 63	1						
53					-		
enter 1.8 Res BW		- T	#VBW 910	kHz		Span 30 MHz Sweep 1 ms	3.000000 MH
Occup	ied Bandwidt		Total F	ower	30.1 dB	m	Auto Mar
	1. S.	.859 MHz					Freq Offse
	hit Freq Error Andwidth	24.995 kHz 19.14 MHz		BW Power	99.00 -26.00 c		UA
85					ITZATOR		

#### OBW\_Band2\_20MHz\_QPSK\_RB100\_0\_CH18900



### OBW Band2 20MHz OPSK RB100 0 CH19100

Center Fr	eq 1.900000000 NFE	Trig.	SENSE:INT Center Freq: 1.90000000 GHz Trig: Free Run Avg Hold:>10/10 #Atten: 20 dB		Radio Std: No Radio Device:	ne Frequen	Frequency
10 dEvdiv	Ref Offset 14.68 d Ref 24.68 dBm						
.og 147 100	1						Center Freq 1.90000000 GHz
63 A 1	1				Lee		
5.3 53 4 4							
center 1.9	9 GHz				Span 3	0 MHz	
Res BW		1	#VBW 910 k		Sweep		O MH
Occup	ied Bandwidtl 17	.895 MHz	Total P	ower	30.1 dBm	Freq	-
	nit Freq Error andwidth	5.089 kHz 19.32 MHz	% of OI x dB	BW Power	99.00 % -26.00 dB		0 H
iù.					TATUS		

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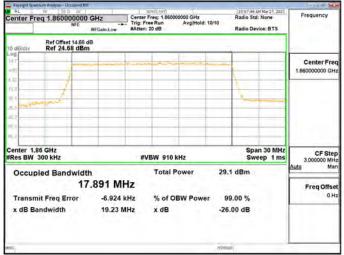
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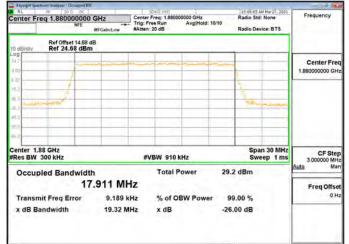


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### OBW\_Band2\_20MHz\_16QAM\_RB100\_0\_CH18700



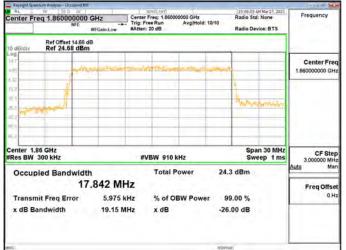
#### OBW\_Band2\_20MHz\_16QAM\_RB100\_0\_CH18900



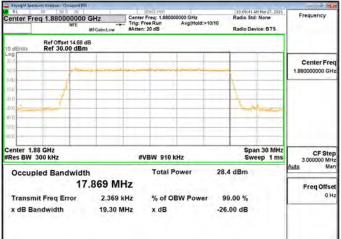
### OBW Band2 20MHz 16QAM RB100 0 CH19100

	trum Analyzer - Occupied B/I					
Center Fre	eq 1.900000000 ( NFE	-+- Trig	SENSEINT Center Freq: 1.900000000 GHz Trig: Free Run AvgiHold:>10/10 #Atten: 20 dB		Radio Device: BTS	Frequency
10 devdiv	Ref Offset 14.68 dE Ref 24.68 dBm	3				
147 147 100 4.17	1					Center Fre 1.90000000 GH
61						
Center 1.9			#VBW 910 kH	,	Span 30 MHz Sweep 1 ms	CF Ste
	ied Bandwidth		Total Pov		0.5 dBm	3.000000 MH Auto Ma
		.894 MHz -8.845 kHz 19.20 MHz	Hz % of OBW Power S		99.00 % 6.00 dB	Freq Offs 01
teŭ j				II YA	TVR .	

#### OBW\_Band2\_20MHz\_64QAM\_RB100\_0\_CH18700



#### OBW\_Band2\_20MHz\_64QAM\_RB100\_0\_CH18900



### OBW Band2 20MHz 64OAM RB100 0 CH19100

Center Fr	eq 1.900000000 NFE	Trig	SENSE:INT Center Freq: 1.90000000 GHz Trig: Free Run Avg Hold; 10/10 #Atten: 20 dB		Radio St	AH Har 27, 2021 Id: None evice: BTS	Frequency
10 dEvdiv	Ref Offset 14.68 d Ref 24.68 dBm						Center Freq 1.90000000 GHz
147 147 190 6.17	-		-	-	-		
61 81 8.7					L		
453 313 853							
Center 1.9 Res BW			#VBW 910	kHz		an 30 MHz veep 1 ms	CF Ster 3.000000 MH
Occupied Bandwidth 17.853 MHz			Total F	Power	28.4 dBm		Auto Mar Freg Offsel
	nit Freq Error andwidth	2.655 kHz 19.32 MHz	% of O x dB	BW Power	99.00 % -26.00 dB		0 H2
să)					TRATUS		

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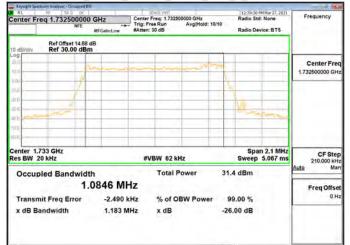


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### OBW\_Band4\_1.4MHz\_QPSK\_RB6\_0\_CH19957

Center Fre	eq 1.710700000 NFE		Center Freq: 1.710700000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB			Radio Device: BTS		Frequency
10 dBidiy	Ref Offset 14.68 d Ref 34.68 dBm							
247 147								Center Free 1.710700000 GH
488 130 101	1							
53 53							more in	
15.3			_					
Center 1.7 Res BW 2			#VBW 62 k	Hz		Spa Sweep	n 2.1 MHz 5.067 ms	CF Ste 210.000 kH
Occup	ied Bandwidt	h 0852 MH:	Total F	ower	30.4	dBm	_	Auto Mar Freq Offse
	iit Freq Error andwidth	-1.216 kH 1.218 MH	3	BW Power		.00 % 00 dB		он
50					STATUS			

#### OBW\_Band4\_1.4MHz\_QPSK\_RB6\_0\_CH20175



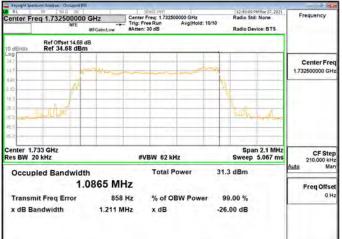
## OBW Band4 1.4MHz OPSK RB6 0 CH20393

	num Analyzer - Occupied BV					
Center Fre	eq 1.754300000 NFE	54300000 GHz Center Freq: 1.754300000 GHz Radio Std: None				
10 dEvdiv	Ref Offset 14.68 d Ref 30.00 dBn					
10.0 10.0				-		Center Free 1.754300000 GH
0.00 10.0	1			A		
0 E	man l				m	
50 0 50 0						
Center 1.7 Res BW 20			#VBW 62 kHz		Span 2.1 MHz Sweep 5.067 ms	
Occupi	ied Bandwidt	h 0846 MHz	Total Power	29.	9 dBm	Auto Ma
	1	-1.961 kHz 1.226 MHz	% of OBW Po x dB		9.00 % .00 dB	Freq Offse 0 H
				17An	_	

#### OBW\_Band4\_1.4MHz\_16QAM\_RB6\_0\_CH19957



#### OBW\_Band4\_1.4MHz\_16QAM\_RB6\_0\_CH20175



## OBW Band4 1.4MHz 16OAM RB6 0 CH20393

AL. C.E.	PF 50 0 00 000 PF 50 0 00 00 PF 50 0 00 00 PF 50 0 00 NFE	GHz Cent	SENSE:INT er Freq: 1.754300000 GHz Free Run AvgiHol n: 30 dB	d: 10/10	12:40:28 PM Mar 27, 20 Radio Std: None Radio Device: BTS	Frequency
0 devdiv	Ref Offset 14.68 d Ref 30.00 dBm					
.0g 10.0		-		-		Center Free 1.754300000 GH
100 10,01	1			1		
ng	and the second				moren	~
00						_
enter 1.7 es BW 2		С. на 19	≢VBW 62 kHz		Span 2.1 M Sweep 5.067 r	ns 210.000 kH
Occup	ied Bandwidth 1.0	) 857 MHz	Total Power	29.	1 dBm	Auto Ma
	it Freq Error Indwidth	3.338 kHz 1.219 MHz	% of OBW Pow x dB		9.00 % .00 dB	он
á.				TTATL	6C	

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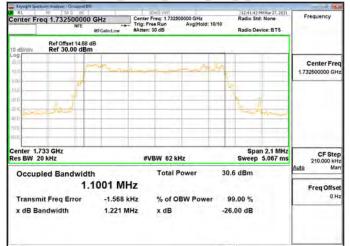


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### OBW\_Band4\_1.4MHz\_64QAM\_RB6\_0\_CH19957

RL BL	tum Analyzer - Occupied BM PS 50 0 0C PG 1.710700000 NFE	-+- 1	Stream 1.7107	00000 GHz Avg Hold: 10/	10	Radio Sto		Frequency
_	Ref Offset 14,68 d	in dam.com	Atten: 30 dB			Radio De	vice: BTS	
to dBidiv	Ref 30.00 dBm							
00 20.0		mark						Center Free 1.710700000 GH
0.000 10,01	1				1			
24 2.42						1	-	
40 0 NIT								
Center 1.7					1		n 2.1 MHz	CF Ste
Res BW 20	DKHZ		#VBW 62 k		_		5.067 ms	210.000 kH Auto Ma
Occupi	ied Bandwidth 1.0	841 MHz	Total I	Power	28.5	dBm		Freq Offse
	it Freq Error Indwidth	391 H		BW Power		.00 % 00 dB		он
85)					57/410	0		

#### OBW\_Band4\_1.4MHz\_64QAM\_RB6\_0\_CH20175



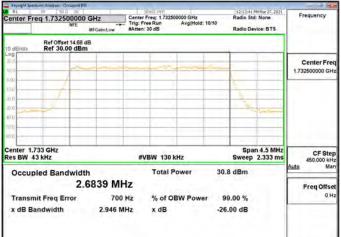
#### OBW Band4 1.4MHz 64QAM RB6 0 CH20393

Keysight Spect	rum Analyzer - Occupied B/4							
	eq 1.754300000 NFE	Trig.	sense INT er Freq: 1.7543 Free Run en: 30 dB	Avg Hold: 10	10	Radio St	PMMar 27, 2021 d: None vice: BTS	Frequency
10 devalv	Ref Offset 14.68 d Ref 30.00 dBm				-			
10.0								Center Free 1.754300000 GH
0.000 10.0	1				A			
00 200	·					-		
500 60.0								
Center 1.7 Res BW 20		1	#VBW 62 ki	Hz			n 2.1 MHz 5.067 ms	CF Ste 210.000 kH
Occupi	ied Bandwidth 1.(	841 MHz	Total F	ower	28.2	2 dBm		Auto Mar Freg Offse
	it Freq Error ndwidth	1.243 kHz 1.220 MHz	% of O x dB	BW Power		0.00 % 00 dB		0 H
80					TRATU			

#### OBW\_Band4\_3MHz\_QPSK\_RB15\_0\_CH19965

enter Fre	eq 1.711500000 NFE		SUMFLEUM Center Freq: 1.7118 Trig: Free Run #Atten: 30 dB	00000 GHz Avg Hold: 10/10	12:12:42 PMMar 27, 2021 Radio Std: None Radio Device: BTS	Frequency
0 dBidiy	Ref Offset 14.68 d Ref 30.00 dBm					_
00 00 00	-				-	Center Free 1.711500000 GH
10	1				3	
enter 1.7 es BW 4			#VBW 130	kHz	Span 4.5 MHz Sweep 2.333 ms	
Occup	ied Bandwidt 2.0	h 6813 MH:	Total I	Power	30.8 dBm	Auto Ma
	iit Freq Error Indwidth	-377 H 2.953 MH		BW Power	99.00 % 26.00 dB	он
					Velocal I	

### OBW\_Band4\_3MHz\_QPSK\_RB15\_0\_CH20175



### OBW Band4 3MHz OPSK RB15 0 CH20385

AL	eq 1.753500000 NFE	GHz Cen	SENSE:INT Center Freq: 1.753500000 GHz Trig: Freq Run AvgiHold:>10/10 #Atten: 30 dB			MMar 27, 2021 None ice: BTS	Frequency
10 dEVdiv	Ref Offset 14.68 d Ref 34.68 dBm						
047 187 187	-				_		Center Fred 1.753500000 GH:
1.00 	1				X		
84 83 413							
Center 1.3 Res BW 4			#VBW 1301	KHz		n 4.5 MHz 2.333 ms	CF Step 450.000 kH
Occup	ied Bandwidth	h 6835 MHz	Total F	ower	30.4 dBm		<u>Auto</u> Ma
	hit Freq Error Andwidth	786 Hz 2.946 MHz	% of O x dB	BW Power	99.00 % -26.00 dB		Freq Offse 0 H
90					TATUS .		

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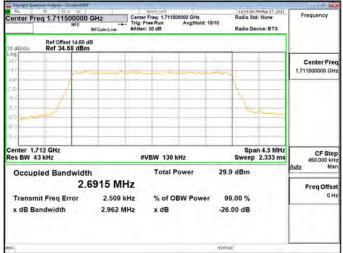
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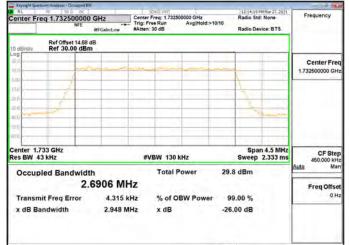


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### OBW\_Band4\_3MHz\_16QAM\_RB15\_0\_CH19965



#### OBW\_Band4\_3MHz\_16QAM\_RB15\_0\_CH20175



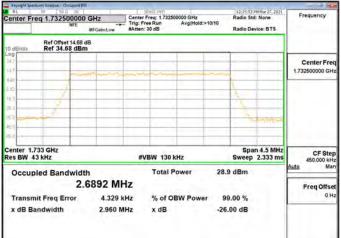
### OBW Band4 3MHz 16OAM RB15 0 CH20385

	m Analyzer - Occupied BVI		SENSE: INT		12:14:38 PM Mar 27, 2021	Frequency
	eq 1.753500000 GHz NFE GalmLow Acceleration AvgiHold.>1010 Atten: 30 dB Radio Device: BTS					
10 dEudiv	Ref Offset 14.68 di Ref 30.00 dBm					
20.0 10.0	-		- min			Center Free 1.753500000 GH
0.00 10.0	1				X	
20.0					m	
40 0 -0 0						
Center 1.75 Res BW 43			VBW 130 kHz		Span 4.5 MHz Sweep 2.333 ms	CF Ste 450.000 kH
Occupie	ed Bandwidth	5844 MHz	Total Power	29.	7 dBm	<u>Auto</u> Ma
	E Freq Error adwidth	-215 Hz 2.961 MHz	% of OBW Powe x dB		9.00 % .00 dB	Freq Offse 0 H
90-)				117ATU		

#### OBW\_Band4\_3MHz\_64QAM\_RB15\_0\_CH19965



#### OBW\_Band4\_3MHz\_64QAM\_RB15\_0\_CH20175



### OBW Band4 3MHz 64OAM RB15 0 CH20385

RL	roum Analyse Occurred IVA RF 30.0 oc eq 1.753500000 NFE	-+- Trig	SEMSE: INF er Freq: 1.7535 Free Run	00000 GHz Avg Hold > 10	Radio St		Frequency
		an anna an	in: 30 dB		Radio D	evice: BTS	
0 devdiv	Ref Offset 14.68 d Ref 30.00 dBm						
0.0			in a				Center Free 1.753500000 GH
0.00					N.		
	-				1		
70 70							
1.0	754 GHz I3 kHz		#VBW 130	kHz		an 4.5 MHz 2.333 ms	CF Ste 450.000 kH
Occup	bied Bandwidth	5879 MHz	Total F	Power	28.6 dBm	9	<u>Auto</u> Ma
Transn	2.0 nit Freq Error	3.297 kHz	% of O	BW Power	99.00 %		Freq Offse 0 H
x dB B	andwidth	2.946 MHz	x dB		-26.00 dB		
(D)					TTATIO		

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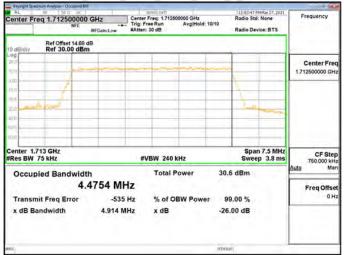
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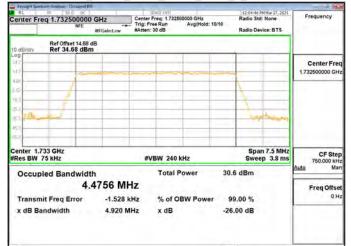


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### OBW\_Band4\_5MHz\_QPSK\_RB25\_0\_CH19975



#### OBW\_Band4\_5MHz\_QPSK\_RB25\_0\_CH20175



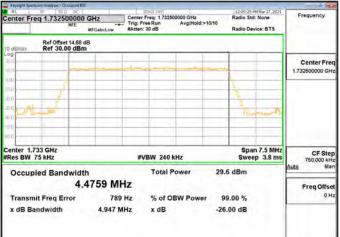
### OBW Band4 5MHz OPSK RB25 0 CH20375

Keysight Turert	Prom Analyzer - Occupied BV		SENSE-INT		112-04-27	PM Mar 27, 2021	
Center Fre	eq 1.752500000 NFE	Trig.	Freq: 1.752500	Avg Hold: 10/1	Radio St		Frequency
10 dEudiy	Ref Offset 14.68 d Ref 30.00 dBm						
20.0	1	-			-		Center Free 1.752500000 GH
10 10 10 20 0	and -				Y	- Wyleyna	
50.0							
Center 1.7 Res BW			VBW 240 k	Hz		an 7.5 MHz ep 3.8 ms	CF Ster 750.000 kH
Occup	ied Bandwidt	<sup>h</sup> 4738 MHz	Total Po	ower	30.2 dBm		Auto Mar Freq Offse
	iit Freq Error andwidth	-2.131 kHz 4.915 MHz	% of OE x dB	W Power	99.00 % -26.00 dB		0 н:
teŭ l					TRATUS		

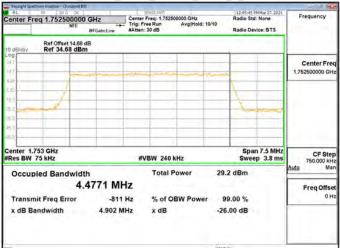
#### OBW Band4 5MHz 16QAM RB25 0 CH19975



#### OBW\_Band4\_5MHz\_16QAM\_RB25\_0\_CH20175



#### OBW Band4 5MHz 16QAM RB25 0 CH20375



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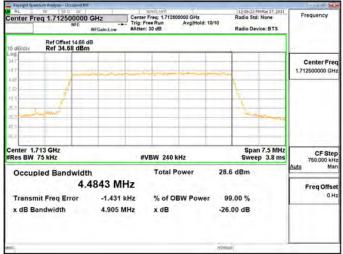
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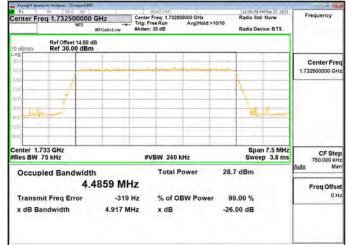


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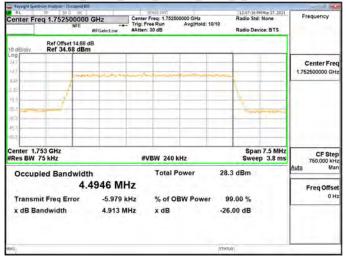
### OBW\_Band4\_5MHz\_64QAM\_RB25\_0\_CH19975



#### OBW\_Band4\_5MHz\_64QAM\_RB25\_0\_CH20175



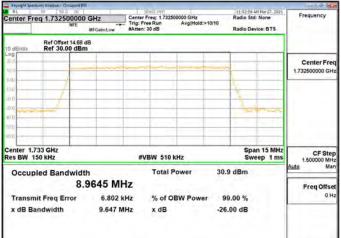
#### OBW Band4 5MHz 64QAM RB25 0 CH20375



### OBW\_Band4\_10MHz\_QPSK\_RB50\_0\_CH20000

e shiding his	ectrum Analyzer - Occupied EVI	1	SENSE-INF	6	11-52-01 AM Mar 27, 2021	
Center F	reg 1.715000000	Trig	ter Freq: 1.71500 1: Free Run ten: 30 dB	AvgiHold: 10/10	Radio Std: None Radio Device: BTS	Frequency
0 dBidiy	Ref Offset 14.68 d Ref 30.00 dBm					_
.0 <b>0</b> . 20.0 (0.15	-				~	Center Fred 1.715000000 GH:
10.00 10.0	1				X	
00					- Mariana	
01 M 0 20 C						
	.715 GHz 150 kHz		#VBW 510 k	Hz	Span 15 MHz Sweep 1 ms	CF Ster 1.500000 MH
Occu	pied Bandwidt	h 9455 MHz	Total P	ower 3	0.9 dBm	Auto Mar
	mit Freq Error Bandwidth	10.978 kHz 9.647 MHz	% of OE x dB		99.00 % 26.00 dB	Freq Offse 0 H

#### OBW\_Band4\_10MHz\_QPSK\_RB50\_0\_CH20175



### OBW Band4 10MHz OPSK RB50 0 CH20350

Center Fre	eq 1.750000000	Tris	SENSE:INF ter Freq: 1.75000 Free Run	0000 GHz Avg Hold: 10/10		Frequency
		#FGain:Low #At	en: 30 dB		Radio Device: BT	S
0 dEvdiv	Ref Offset 14.68 d Ref 30.00 dBm				-	
.0g 20.0	-		me			Center Fred 1.750000000 GH:
10.07	1				1	
10 f)	ment -				- marine	-
00 90 10 10 10 10 10 10 10 10 10 10 10 10 10						
enter 1.7 es BW 1			#VBW 510 k	Hz	Span 15 M Sweep 1	
Occup	ied Bandwidth		Total P	ower	30.2 dBm	Auto Mar
Transm	8.3 it Freq Error	-7.596 kHz	% of OE	BW Power	99.00 %	Freq Offse 0 H
x dB Ba	ndwidth	9.642 MHz	x dB		-26.00 dB	
			1000			0 H3

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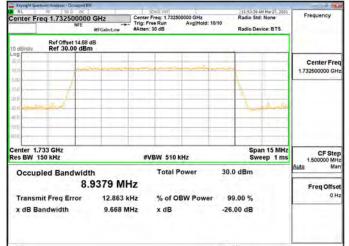


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### OBW\_Band4\_10MHz\_16QAM\_RB50\_0\_CH20000

H AL	rum Analyzer - Occupied EM	GHz 0	SUMSIL:UNF)		Radio St	AM Mar 27, 2021 td: None	Frequency
	NFE		rig: Free Run Atten: 30 dB	Avg Hold:>10		evice: BTS	-
10 dBidiv	Ref Offset 14.68 d Ref 34.68 dBm						_
247 147	-57	-	_		-		Center Fre 1.715000000 GH
482 1.0	1						
5.3					120		
Center 1.7 Res BW 15			#VBW 510	kHz		an 15 MHz veep 1 ms	CF Ste 1.500000 MH
Occupi	ied Bandwidtl 8.9	h 9068 MHz	Total F	ower	29.9 dBm	1	Auto Ma
	iit Freq Error Indwidth	11.737 kH 9.725 MH		BW Power	99.00 % -26.00 dB		OH
85					STATUS		

#### OBW\_Band4\_10MHz\_16QAM\_RB50\_0\_CH20175



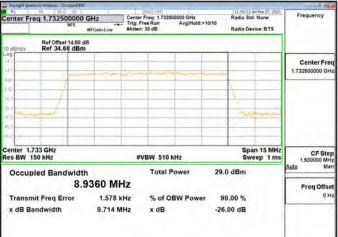
### OBW Band4 10MHz 16OAM RB50 0 CH20350

Keysight Tues	drum Analyzer - Occupied BM		SENSE:INT		11-53-58 AM M		0.0
	eq 1.750000000 NFE	Trig	Center Freq: 1.750000000 GHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB			BTS	Frequency
10 dEVdiv	Ref Offset 14.68 d Ref 30.00 dBm		-				Center Freq 1.75000000 GHz
10.0	-	minner			-		
0.00 10.0 30.0							
0.0 0.0							
60.0 							
Center 1.3 Res BW 1		1	VBW 510 k	Hz	Span 1 Sweep	1 ms 1.	CF Step 500000 MH
Occup	ied Bandwidt	280 MHz	Total Po	ower	29.6 dBm	Auto	Mar reg Offsel
	nit Freq Error andwidth		% of OB x dB	W Power	99.00 % -26.00 dB		0 H:
60					TATUS		-

### OBW\_Band4\_10MHz\_64QAM\_RB50\_0\_CH20000

RL .	rum Andres - Occupied IV Re 56 0 00 1 eq 1.715000000 NFE	GHz	summer Freq: 1.71500 rig: Free Run Atten: 30 dB	00000 GHz Avg Hold: 10/10	Radio Devi		Frequency
10 dBidiv	Ref Offset 14.68 c Ref 30.00 dBm	iB	Atten: 30 db		Radio Devi	CH: B13	
000	-				-		Center Free 1.715000000 GH
10,0	1				1		
0.0		-					
Center 1.7			#VBW 510	(H7	Spar	n 15 MHz ep 1 ms	CF Ste
	ied Bandwidt	h 9373 MHz	Total P		28.8 dBm	and the second	1.500000 MH Auto Ma
	nit Freq Error andwidth	10.464 kHz 9.660 MHz	% of O	BW Power	99.00 % 26.00 dB		0H
					fahrasi		

#### OBW\_Band4\_10MHz\_64QAM\_RB50\_0\_CH20175



### OBW Band4 10MHz 64OAM RB50 0 CH20350

Center Fr	eq 1.750000000 NFE	Trig	SENSE:INT er Freq: 1.750000 Free Run en: 30 dB	000 GHz AvgiHold: 10/10	Radio Device: B1	Frequency
10 devdiv	Ref Offset 14.68 d Ref 30.00 dBm					
000	-				-	Center Free 1.750000000 GH:
ni.g mi						
0.0 0.0 0.0						
center 1.7			#VBW 510 k	łz	Span 15   Sweep 1	
Occup	oied Bandwidth 8.9	n 9336 MHz	Total Po	ower 2	8.5 dBm	Auto Ma
	nit Freq Error andwidth	-475 Hz 9.728 MHz	% of OE x dB	W Power	99.00 % 26.00 dB	он
0					ATUS	

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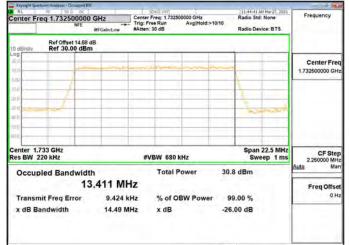


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### OBW Band4 15MHz QPSK RB75 0 CH20025

RL S	erum Analyzer - Occupied Wi 19 5 5 5 0 00 1 1.717500000 NFE		SUNSILIUM Center Freq: 1.712 Trig: Free Run #Atten: 30 dB	7500000 GHz Avg Hold: 10	Radio Std		Frequency
10 dBidiy	Ref Offset 14.68 d Ref 34.68 dBm						
247 147					_		Center Free 1.717500000 GH
4.88 1.30 19:1	1						
53 53	~						
Center 1.7	18 GHz				Span	22.5 MHz	
Res BW 2			#VBW 680	) kHz		eep 1 ms	CF Ste 2.250000 MH Auto Ma
Occup	ied Bandwidth 13	.414 MH		Power	30.6 dBm		Freq Offse
	it Freq Error Indwidth	36.454 kH 14.49 MH		OBW Power	99.00 % -26.00 dB		он
655)					574101		

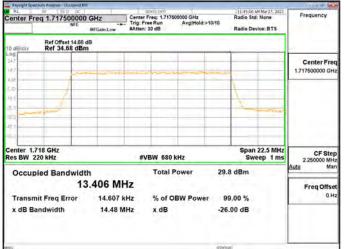
#### OBW\_Band4\_15MHz\_QPSK\_RB75\_0\_CH20175



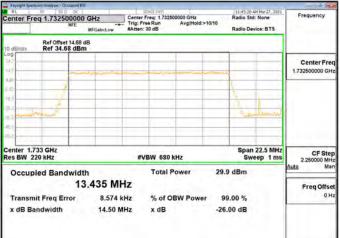
## OBW Band4 15MHz QPSK RB75 0 CH20325

AL	req 1.747500000	GHz Cente	SEASE-INFI or Freq: 1.747500000 GHz Free Run Avg Hold: n: 30 dB	>10/10	11:44:21 AM Mar 27, 2021 Radio Std: None Radio Device: BTS	Frequency	
10 dEvdiv	Ref Offset 14.68 c Ref 30.00 dBm						
10.0 10.0 10.0	- An					Center Fred 1.747500000 GHz	
11.0 20 0					Lin		
40 Q							
Center 1. Res BW			VBW 680 kHz		Span 22.5 MHz Sweep 1 ms	2.250000 MH	
Occu	pied Bandwidt 13	h 8.601 MHz	Total Power	31.:	3 dBm	Auto Mar Freg Offse	
	mit Freq Error landwidth		% of OBW Powe x dB		9.00 % 00 dB	OH	
Heigh				TRATU			

#### OBW\_Band4\_15MHz\_16QAM\_RB75\_0\_CH20025



#### OBW\_Band4\_15MHz\_16QAM\_RB75\_0\_CH20175



### OBW Band4 15MHz 16OAM RB75 0 CH20325

Center Fi	req 1.747500000 NFE	Trig	Center Freq: 1.747500000 GHz Trig: Free Run AvgiHold; 10/10 #Atten: 30 dB		Radio Device: BTS	Frequency
10 deudiy	Ref Offset 14.68 d Ref 30.00 dBm	B				
100 100 100						Center Fred 1.747500000 GHz
1.0 1.1					1	
D.G D.Q 						
60.0						
Center 1. Res BW		С. н	#VBW 680 kH	z	Span 22.5 MHz Sweep 1 ms	2.250000 MH
Occur	bied Bandwidt	h .421 MHz	Total Por	wer 29	9.6 dBm	Auto Mar
	nit Freq Error	1.645 kHz	10.00		99.00 %	Freq Offse 0 H
X dB B	andwidth	14.50 MHz	x dB	-2	6.00 dB	
sú.					nài	

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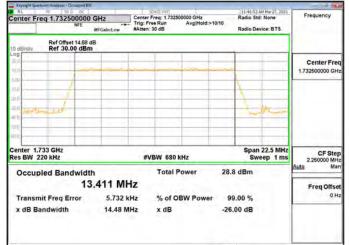


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### OBW\_Band4\_15MHz\_64QAM\_RB75\_0\_CH20025

Center Fr	eq 1.717500000 NFE	-+- T	Center Freq: 1.717500000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB		Radio S	6 AM Mar 27, 2021 Std: None Device: BTS	Frequency
10 dBidiv	Ref Offset 14.68 d Ref 30.00 dBm	-					
00.00 00.00	-				-in		Center Fre 1.717500000 GH
0.00 10,0 11 1	1				1		
10.0 0.0L	~					n	
					-		
Center 1.7 Res BW 2			#VBW 680	kHz		m 22.5 MHz weep 1 ms	CF Ste 2.250000 MH
Occup	ied Bandwidt 13	.400 MHz	Total	Power	28.7 dBm		Auto Ma
	nit Freq Error Andwidth	14.682 kHz 14.55 MHz		BW Power	99.00 % -26.00 dB		01
er.					STATUL		

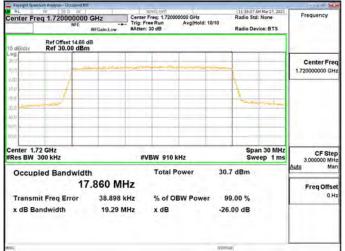
#### OBW\_Band4\_15MHz\_64QAM\_RB75\_0\_CH20175



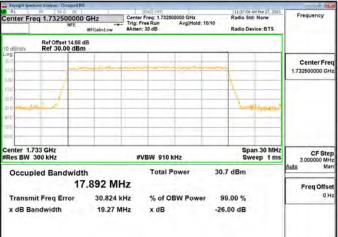
## OBW Band4 15MHz 64OAM RB75 0 CH20325

Keysight Spe	ectrum Analyzer - Occupied B/I	1	SENSE: INT	11:47:31 AM Mar 37, 2021	
	req 1.747500000	Trig. I	Freq: 1.747500000 GHz Free Run Avg Hold: 10 2: 30 dB	Radio Std: None	Frequency
10 devdiv	Ref Offset 14.68 de Ref 30.00 dBm	3			
10.0 10.0 10.0	prop				Center Fred 1.747500000 GH:
10.0	1			1	
20.0 0000000000000000000000000000000000	allow -			materia	
Center 1.	748 GHz			Span 22.5 MHz	
Res BW		#	VBW 680 kHz	Sweep 1 ms	CF Ster 2.250000 MH
Occup	pied Bandwidth	O. Secol	Total Power	27.1 dBm	Auto Mar
	mit Freq Error		% of OBW Power		Freq Offse 0 H
x dB B	landwidth	14.51 MHz	x dB	-26.00 dB	
H9Q				IITATUS	

### OBW\_Band4\_20MHz\_QPSK\_RB100\_0\_CH20050



#### OBW\_Band4\_20MHz\_QPSK\_RB100\_0\_CH20175



## OBW Band4 20MHz OPSK RB100 0 CH20300

Center Fre	eq 1.745000000 NFE	Trig	SENSE:INT ter Freq: 1.745000 Free Run en: 30 dB	000 GHz Avg Hold >10/10	Radio Device: BTS	Frequency
to devalu	Ref Offset 14.68 d Ref 30.00 dBm					
.0g 20.0 10.0	-				2	Center Fred 1.745000000 GH:
10.0 10.0					Lanna	
0.0						
enter 1.7					Span 30 MHz	CF Ster
Res BW			#VBW 910 ki		Sweep 1 ms	3.000000 MH Auto Mai
Occup	ied Bandwidt 17	.909 MHz	Total Po	ower	31.4 dBm	FreqOffse
	it Freq Error Indwidth	70.427 kHz 18.54 MHz	% of OB x dB	W Power	99.00 % 26.00 dB	он
i.					TATUS	

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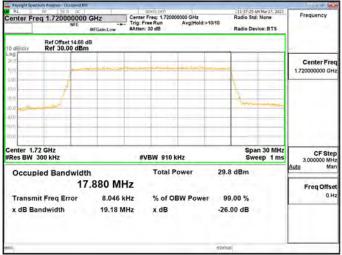
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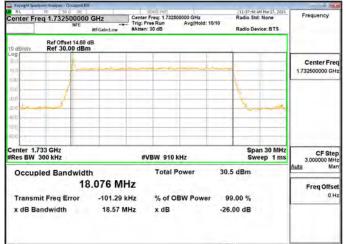


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### OBW\_Band4\_20MHz\_16QAM\_RB100\_0\_CH20050



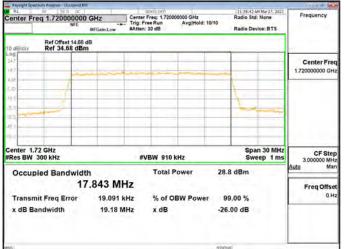
#### OBW\_Band4\_20MHz\_16QAM\_RB100\_0\_CH20175



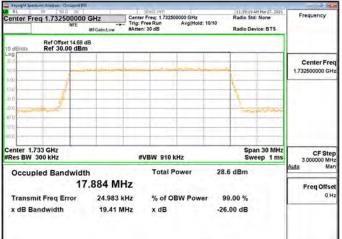
## OBW Band4 20MHz 16QAM RB100 0 CH20300

AL .	PE 20 0 00 000000	GH2 Ce	sense INT	00000 GHz	11:38:03 AM Mar 27, 2021 Radio Std: None	Frequency
	NFE	-p. Tri	g: Free Run Iten: 30 dB	Avg Hold >10/10	Radio Device: BTS	
10 deudiv	Ref Offset 14.68 dE Ref 34.68 dBm	3				
247						Center Fred 1.745000000 GHz
1.0 1.0	1					
83						
453						
Center 1.7 #Res BW 3		î.	#VBW 910	kHz	Span 30 MHz Sweep 1 ms	CF Step 3.000000 MH:
Occupi	ied Bandwidth		Total I	Power 2	9.7 dBm	Auto Mar
	it Freq Error	893 MHz 8.503 kHz	% of O		99.00 %	Freq Offse 0 H
x dB Ba	indwidth	19.28 MHz	x dB		26.00 dB	
esc)				117	ATUR	

#### OBW\_Band4\_20MHz\_64QAM\_RB100\_0\_CH20050



#### OBW\_Band4\_20MHz\_64QAM\_RB100\_0\_CH20175



## OBW Band4 20MHz 64OAM RB100 0 CH20300

Center Fre	eq 1.745000000 NFE	Tri	SENSE:INT Inter Freq: 1.7450000 g: Free Run ten: 30 dB	00 GHz AvgiHold: 10/10	Radio Dev		Frequency
10 dEvdiv	Ref Offset 14.68 d Ref 34.68 dBn						
147 147							Center Fred 1.745000000 GHz
10	1				1		
33 33 453							
Center 1.7	45 CH2				Sus	n 30 MHz	
Res BW			#VBW 910 kH	z		ep 1 ms	CF Step 3.000000 MH
Occup	ied Bandwidt		Total Pov	wer 2	8.7 dBm		Auto Mar
	1 / hit Freq Error andwidth	33.008 kHz 19.25 MHz	% of OBV x dB		99.00 % 6.00 dB		Freq Offsel 0 Hz
HO				it).	ATU/II (		

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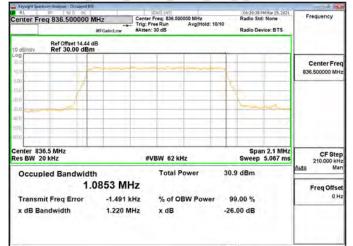


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### OBW\_Band5\_1.4MHz\_QPSK\_RB6\_0\_CH20407

RL S	eq 824.700000 M		Samsility Center Freq: 8	24.700000 MHz		Radio Sto	PMMar 29, 2021	Frequency	
Contar Th	uq 024.700000 ii	#FGain:Low	Trig: Free Run Avg/Hold: 10/10 #Atten: 30 dB			Radio De	vice: BTS		
10 dBidiy	Ref Offset 14.44 d Ref 30.00 dBm								
20.0 20.0	-	m			-			Center Free 824,700000 MH	
10.0	1								
111 10.0	man						mu		
40.0							1		
50 G.						-			
Center 82 Res BW 2			#VBW	62 kHz		Spa Sweep	n 2.1 MHz 5.067 ms	CF Ste 210.000 kH	
Occup	ied Bandwidt			tal Power	31	.1 dBm		<u>Auto</u> Ma	
Transm	nit Freq Error	907 -907		of OBW Pow	er	99.00 %		Freq Offse 0 H	
x dB Ba	andwidth	1.221 MI	Hz x d	B	-2	6.00 dB			
183					574	100			

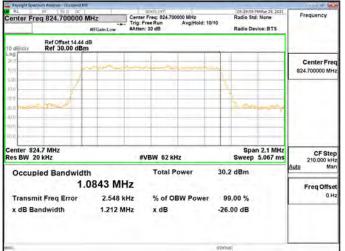
#### OBW\_Band5\_1.4MHz\_QPSK\_RB6\_0\_CH20525



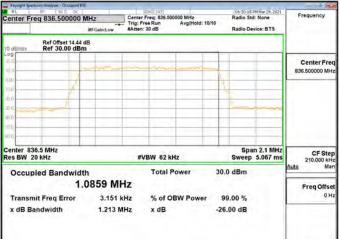
## OBW Band5 1.4MHz OPSK RB6 0 CH20643

RL E	R 848.300000 M	AH2 C	enter Freq: 848.3	00000 MHz AvgiHold; 10		(06:29:19) Radio Sto	MMar 29, 2021	Frequency
			Atten: 30 dB	10	Radio Device: BTS			
10 dEvdiv	Ref Offset 14.44 c Ref 30.00 dBm					_		
20.0				-				Center Free
10.0	-		and the second s			848.300000 MH		
0.00	1				1			
10,0	t t							
0.0	- alle						m	
0.0			1.1					
5010								
0.0								
Center 848 Res BW 20		-	#VBW 62 k	Hz			n 2.1 MHz 5.067 ms	CF Ster 210.000 kH
Occupi	ied Bandwidt	h	Total	Power	30.6	dBm		Auto Ma
occupi		0835 MHz						2.0.200
	1		1.1.1.1.1.1.1.1			1.1.2		Freq Offse
	it Freq Error			BW Power		0.00 %		
x dB Ba	ndwidth	1.217 MHz	x dB		-26.	00 dB		
eá.					TATU			

#### OBW\_Band5\_1.4MHz\_16QAM\_RB6\_0\_CH20407



#### OBW\_Band5\_1.4MHz\_16QAM\_RB6\_0\_CH20525



## OBW Band5 1.4MHz 16OAM RB6 0 CH20643

enter Fre	eq 848.300000 M	Hz Cen	sense INT ter Freq: 848.300 Free Run	000 MHz Avg Hold: 10	10	Radio Sto	MMar 29, 2021	Freque	ncy
		#FGain:Low #At	en: 30 dB		× .	Radio De	vice: BTS		
0 devdiv	Ref Offset 14.44 di Ref 30.00 dBm	В							
00								Cente 848.3000	
0.07	A				A				
00 00	- A					here			
0 D									
enter 841 es BW 20		с. I.	#VBW 62 kH	z	1		n 2.1 MHz 5.067 ms	C 210.0	F Ste
Occup	ied Bandwidth	846 MHz	Total P	ower	29.8	3 dBm		Auto	Ma
	it Freq Error	3.391 kHz		BW Power		9.00 %		Freq	Offse
x dB Ba	indwidth	1.217 MHz	x dB		-26.	00 dB			
ii.					TTATU				

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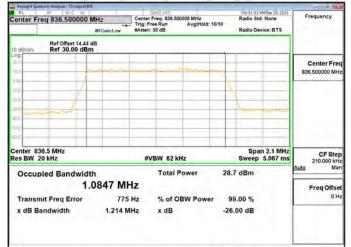


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### OBW\_Band5\_1.4MHz\_64QAM\_RB6\_0\_CH20407

H AL	eq 824.700000 M		Center F		0000 MHz Avg Hold: 10	10	Radio Device: BTS		Frequency
to dBidiv	Ref Offset 14.44 d Ref 30.00 dBm								
20.0 20.0 (0.0						-			Center Free 824.700000 MH
10,0	A					1	-	-	
	-						5	mu	
50 D									
Center 82 Res BW 2			#VI	BW 62 kl	Hz		Spa Sweep	n 2.1 MHz 5.067 ms	CF Ste 210.000 kH
Occup	ied Bandwidt	h 0834 MH	łz	Total F	ower	28.6	ő dBm	-	Auto Mar Freg Offse
	nit Freq Error andwidth	668 1.216 M	Hz	% of O x dB	BW Power		9.00 % 00 dB		0H:
55						57410			

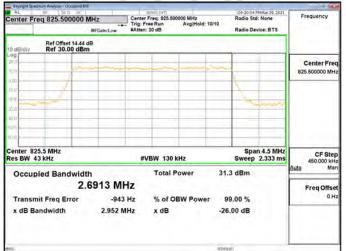
#### OBW\_Band5\_1.4MHz\_64QAM\_RB6\_0\_CH20525



### OBW Band5 1.4MHz 64OAM RB6 0 CH20643

AL E	reg 848.300000 M	Ha Ce	SEMSE:INT	00000 MHz		06-32-29 P Radio Std	MMar 29, 2021	Frequency	
Center PI		Tri	Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB			Radio Device: BTS			
10 dEvalv	Ref Offset 14.44 dl Ref 30.00 dBm	в							
10.0								Center Free 848.300000 MH	
0.000 10.01	A				A				
10 10 C						Lan			
10 Q 50 Q									
Center 84	40.2 MU-					Cnar	1 2.1 MHz	_	
Res BW 2		1	#VBW 621	Hz			5.067 ms	CF Ste 210.000 kH	
Occup	oied Bandwidth	Ween St.	Total	Power	28.7	7 dBm		Auto Ma	
	1.0	838 MHz						Freq Offse	
Transn	nit Freq Error	-220 Hz	% of C	BW Power	99	9.00 %		он	
x dB B	andwidth	1.214 MHz	x dB		-26.	00 dB			
eq.					TRATU	•C			

#### OBW\_Band5\_3MHz\_QPSK\_RB15\_0\_CH20415



### OBW\_Band5\_3MHz\_QPSK\_RB15\_0\_CH20525

Center Fr	eq 836.500000	Trig	SENSE DM Iter Freq: 836.500 p: Free Run ten: 30 dB	Radio Std: No Radio Device:	ine	Frequency	
10 dEi/div	Ref Offset 14.44 Ref 30.00 dBr				3		
20.0	-		بر ا		-	_	Center Fred 836.500000 MHz
t0.0	1				1 miles	-	
10 G. 10 () 10 ()							
Center 83					Span 4.		CF Ster
Occup	led Bandwidt	h	#VBW 130 k		Sweep 2.3		450,000 kH Auto Mar
	the second second second second						
	nit Freq Error	664 Hz 2.942 MHz			99.00 % 26.00 dB		0 H:
2.6870 MHz	6870 MHz 664 Hz % of OBW Power	% of OBW Power		5			Freq Offset 0 Hz

#### OBW Band5 3MHz OPSK RB15 0 CH20635

Keysight Turk AL Center Fro	AL         Image: Stand and stand							
10 dEvdiv	Ref Offset 14.44 d Ref 30.00 dBm			1				
.0g 10.0 10.0	1				-		Center Fre 847.500000 MH	
0.0°					X			
0.0 0.0								
00								
enter 84 es BW 4		<u> </u>	#VBW 130	kHz		n 4.5 MHz 2.333 ms	CF Ste 450.000 kH	
Occup	ied Bandwidth	5839 MHz	Total I	Power	31.2 dBm		Auto Ma	
	it Freq Error Indwidth	-47 Hz 2.936 MHz	% of C x dB	BW Power	99.00 % -26.00 dB		Freq Offse 0 H	
a.					TTATIO			

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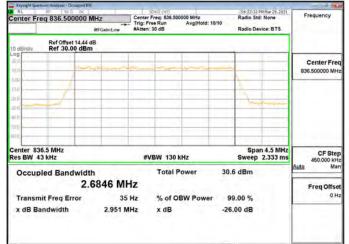


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### OBW\_Band5\_3MHz\_16QAM\_RB15\_0\_CH20415

A AL	erum Analyse - Occupied BM PS 26 0 00 eq 825.500000 M	Tria.	stedictori nter Freq: 825.50 g: Free Run tten: 30 dB	0000 MHz AvgiHold:>10	Radio St	PMMar 29, 2021 Id: None evice: BTS	Frequency	
10 dBidiv	Ref Offset 14.44 di Ref 30.00 dBm		_					
20.0 (0.5	-				-		Center Fre 825.500000 MH	
10,0	1				X			
40 01-								
00							1.0	
Center 82 Res BW 4			#VBW 130	kHz		an 4.5 MHz 2.333 ms	CF Ste 450.000 kH	
Occup	ied Bandwidth 2.6	8849 MHz	Total F	ower	30.7 dBm		Auto Ma Freq Offse	
	iit Freq Error andwidth	-1.947 kHz 2.969 MHz	% of O x dB	BW Power	99.00 % -26.00 dB		٥H	
85					STATUS		_	

#### OBW\_Band5\_3MHz\_16QAM\_RB15\_0\_CH20525



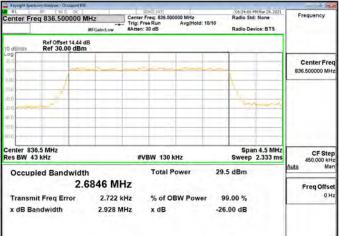
### OBW Band5 3MHz 16OAM RB15 0 CH20635

Keysight Tue	REF 1 20 0 000		SENSEINT		2	06:22:52 8	HMur 29, 2021		
Center Fr	req 847.500000 M	Trig.	Center Freq: 847.500000 MHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency	
10 dEvdiv	Ref Offset 14.44 di Ref 30.00 dBm	8							
20.0	-		-		-			Center Fred 847.500000 MHz	
0.000 11.00 20.0	1								
D.G						24.30			
50 0 50 0									
Center 84 Res BW 4	47.5 MHz 43 kHz		VBW 130 H	Hz	s	Spar weep	4.5 MHz 2.333 ms	CF Ster 450.000 kH	
Occur	pied Bandwidth	899 MHz	Total P	ower	30.3 d	IBm		Auto Mar	
	mit Freq Error andwidth	2.061 kHz	% of O x dB	BW Power	99.0 -26.00			Freq Offse 0 H:	
100					TTATIA				

#### OBW Band5 3MHz 64QAM RB15 0 CH20415

Keypight	Apestrum Analyser - Orcupied EVI		SING-INT		200.000	19 PMMar 29, 2021	142419-00
	Freq 825.500000 N	Tel	nter Freq: 825.50 g: Free Run tten: 30 dB	0000 MHz AvgiHold: 10	Radio 1	Std: None Device: BTS	Frequency
tó dBidiv	Ref Offset 14.44 d Ref 30.00 dBm						
0.0 20.0 90.0	-	-	-		-		Center Free 825.500000 MH
10,0	1				A.		
**	1				13		
10 01							
0.0							
	825.5 MHz 43 kHz		#VBW 130	kHz		an 4.5 MHz p 2.333 ms	CF Step 450.000 kH
Occi	upled Bandwidth		Total F	Power	29.0 dBm	a* ]	Auto Mar
		6939 MHz					Freq Offse
	smit Freq Error Bandwidth	3.003 kHz 2.946 MHz	% of O x dB	BW Power	99.00 %		UH
X GD	Banuwidth	2.940 MHZ	X OB		-20.00 dB		
83					ITANUE		

### OBW\_Band5\_3MHz\_64QAM\_RB15\_0\_CH20525



### OBW Band5 3MHz 64OAM RB15 0 CH20635

RL .	eg 847,500000 I		sense: INT	0000 MH+	06:24:42	M Mar 29, 2021	Frequency
enter ri	eq 847,500000	Treasure Tre	lig: Free Run Atten: 30 dB	Radio De			
0 devalv	Ref Offset 14.44 Ref 30.00 dBn						
00 00 00	-				-		Center Fre 847.500000 MH
000 0.07 0.07	1						
10					- Ly		
na -							
enter 84 es BW 4			#VBW 130	kHz		n 4.5 MHz 2.333 ms	CF Ste 450.000 kH
Occup	ied Bandwidt	<sup>h</sup> 6860 MHz	Total I	Power	29.0 dBm		Auto Ma
	nit Freq Error	2.454 kHz	% of O	BW Power	99.00 %		0 H
x dB Ba	andwidth	2.946 MHz	x dB		-26.00 dB		
à.					ITATUS (		

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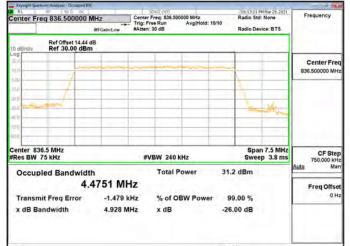


# Report No.: ER/2021/20010 Page: 132 of 465

### OBW\_Band5\_5MHz\_QPSK\_RB25\_0\_CH20425

Center Fr	eq 826.500000 N		enter Freq: 8 rig: Free Rur Atten: 30 dB	26.500000 MHz	d: 10/10	Radio Device: BTS		Frequency	
10 dBidiv	Ref Offset 14.44 d Ref 30.00 dBm			-				_	
20.0 (0.15	-							Center Fre 826.500000 MH	
10.0						1			
500 4000					-	-			
10.0								1.0	
Center 82 Res BW			#VBW	240 kHz			n 7.5 MHz ep 3.8 ms	CF Ste 750.000 kH	
Occup	ied Bandwidth 4.4	1 1830 MHz		tal Power	31	.0 dBm		Auto Ma	
	nit Freq Error andwidth	-5.479 kHz 4.916 MHz		of OBW Pow IB		99.00 % 5.00 dB		01	
85					574	of			

#### OBW\_Band5\_5MHz\_QPSK\_RB25\_0\_CH20525



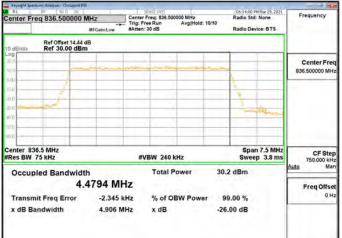
## OBW Band5 5MHz OPSK RB25 0 CH20625

	etrum Analyzer - Occupied BVI				
Center Fr	req 846.500000 M	Trig.	SENSE INT Free: 846.500000 MHz Free Run AvgiHold.> 1: 30 dB	10/10 Radio Std: None Radio Device: BTS	Frequency
10 devdiv	Ref Offset 14.44 di Ref 30.00 dBm				
100 100 100	-				Center Free 846.500000 MH
10	and the			Lanne	
30.0 40.0 5010					
Center 84				Span 7.5 MHz	CF Ster
Res BW	75 kHz	1	VBW 240 kHz	Sweep 3.8 ms	750.000 kH
Occur	bied Bandwidth 4.4	753 MHz	Total Power	31.0 dBm	Auto Mar Freq Offse
	nit Freq Error andwidth	285 Hz 4.923 MHz	% of OBW Power x dB	99.00 % -26.00 dB	он
80				117ATU0	

#### OBW Band5 5MHz 16QAM RB25 0 CH20425

RL .	RF 50.0 DC		SUMFL: (WF)			40 PMMar 29, 2021	
Center Fre	eq 826.500000 M	1	Center Freq: \$26,500000 MHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB		10	Std: None Device: BTS	Frequency
tó dBidiv	Ref Offset 14.44 c Ref 30.00 dBm				_		
00 20.0 	-				-		Center Free 826.500000 MH
10.0	1				Y		
0.0						marth	
200) 200)							
enter 82 Res BW			#VBW 240	kHz		pan 7.5 MHz reep 3.8 ms	CF Ster 750.000 kH
Occup	ied Bandwidt		Total I	Power	30.3 dBm	a	<u>Auto</u> Mar
Trance	4.4	4822 MHz -3.540 kH	1	BW Power	99.00 %		Freq Offse
	indwidth	4.968 MH		BW Fower	-26.00 dB		
85					IIZAYOB		

### OBW\_Band5\_5MHz\_16QAM\_RB25\_0\_CH20525



### OBW Band5 5MHz 16OAM RB25 0 CH20625

AL C	eq 846.500000 N	IHz Ce	state (NT) nter Freq: 846.500 g: Free Run	0000 MHz AvgiHold: 10/10	00:14:20 PM Mar 29, 2021 Radio Std: None	Frequency
		#FGain:Low #A	tten: 30 dB	and the second second	Radio Device: BTS	
0 dEudiy	Ref Offset 14.44 d Ref 30.00 dBm					
00.000						Center Free 846.500000 MH
0.07 0.07	1				-	
0.0					Televis and the	
0.0						
enter 84 Res BW		÷	#VBW 240 H	Hz	Span 7.5 MHz Sweep 3.8 ms	750.000 kH
Occup	ied Bandwidt		Total P	ower	30.0 dBm	Auto Ma
2		4779 MHz			in in a	Freq Offs
	nit Freq Error andwidth	-1.550 kHz 4.924 MHz	% of O x dB		99.00 % 26.00 dB	
					TATION (	

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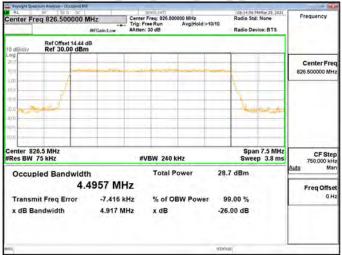
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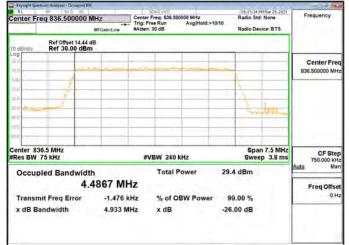


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### OBW\_Band5\_5MHz\_64QAM\_RB25\_0\_CH20425



#### OBW\_Band5\_5MHz\_64QAM\_RB25\_0\_CH20525



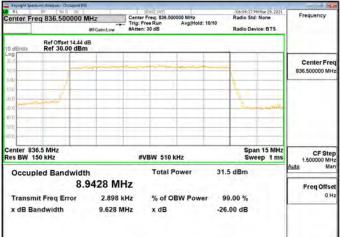
### OBW Band5 5MHz 64QAM RB25 0 CH20625

	trum Analyzer - Occupied B/A						2 2
Center Fre	eq 846.500000 M	Trie Trie	Center Freq: 846.500000 MHz Trig: Free Run AvgiHold: 10/10		Radio Std:		Frequency
-	Ref Offset 14.44 di	and the second second			Radio Devi	Ce. 013	
10 dEVdiv	Ref 30.00 dBm						
Log						· · · · · · · · ·	Contor From
100	-	alina	Remin				Center Free 846.500000 MH
im							840.500000 MP
10.0	1				N		
2010					N I		
Da	and the				VAN P	12 des	
10.0							
50.0							
60.0							
80.0							
Center 84		Ê.	#VBW 240	kHz		7.5 MHz 3.8 ms	CF Ster 750.000 kH
Occurs	ied Bandwidth		Total F	ower	28.6 dBm	A	iuto Mai
Occup	and the second sec		Totari	ower	20.0 0000	E F	
	4.4	825 MHz					Freq Offse
Transm	it Freg Error	2.636 kHz	% of O	BW Power	99.00 %		OH
	andwidth	4.922 MHz	x dB		-26.00 dB		
	ind indian	HOLE MILL			20.00 00		
Haŭ I					TTATUS		

#### OBW\_Band5\_10MHz\_QPSK\_RB50\_0\_CH20450

Center Fr	eq 829.000000 M	T	Center Freq: 829.000000 MHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB		Radio Std		Frequency
10 dBidiy	Ref Offset 14.44 di Ref 30.00 dBm						
00 00 00	-				-		Center Free 829.000000 MHz
10.0	1				2		
0.0	-	-					
0.0.						-	
enter 82 es BW 1			#VBW 510	kHz		n 15 MHz ep 1 ms	CF Step 1.500000 MH
Occup	ied Bandwidth		Total I	ower	31.7 dBm		Auto Mar
	8.2 nit Freq Error andwidth	9555 MHz -582 Hz 9.719 MHz	% of O	BW Power	99.00 % -26.00 dB		Freq Offse 0 Ha
a l					ITENTOIL		

#### OBW\_Band5\_10MHz\_QPSK\_RB50\_0\_CH20525



### OBW Band5 10MHz OPSK RB50 0 CH20600

RL	eq 844.000000 M	1Hz Ce	state: INT nter Freq: 844,0 g: Free Run	00000 MHz Avg Hold: 10/1	00:04:17 PM Mar 29, 2021 Radio Std: None	Frequency
			tten: 30 dB	ere postar reit	Radio Device: BTS	
0 devdiv	Ref Offset 14.44 di Ref 30.00 dBm					
00	-					Center Free 844.000000 MH
0.0						
0.0						
ση						
enter 84 es BW 1			#VBW 510	kHz	Span 15 MHz Sweep 1 ms	1.500000 MH
Occup	ied Bandwidth 8 9	n 9649 MHz	Total	Power	31.0 dBm	Auto Ma
	it Freq Error	-6.403 kHz		BW Power	99.00 %	0 H
x dB Ba	andwidth	9.661 MHz	x dB		-26.00 dB	
0					TRATIAL	

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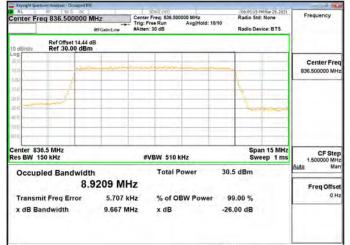


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### OBW\_Band5\_10MHz\_16QAM\_RB50\_0\_CH20450

Center Fr	eq 829.000000 M	Trig	Center Freq: \$29,000000 MHz Trig: Freq: 829,00000 MHz Trig: Freq: 829,00000 AvgiHold:>10/10 #Atten: 30 dB		Radio St	PMMar 29, 2021 d: None wice: BTS	Frequency	
10 dBidiv	Ref Offset 14.44 di Ref 30.00 dBm						_	
20.0 (0.0)	p		-		-		Center Fre 829.000000 MH	
10,0	1				1			
5.0 10 0								
90 M.								
Center 82 Res BW 1			#VBW 510	kHz		an 15 MHz reep 1 ms	CF Ste 1.500000 MH	
Occup	ied Bandwidth 8.9	Bandwidth Total Power 30 8.9184 MHz			30.9 dBm		Auto Ma	
	hit Freq Error Andwidth	794 Hz 9.622 MHz	% of O x dB	BW Power	99.00 % -26.00 dB		Freq Offse 0 H	
51					STATUE			

#### OBW\_Band5\_10MHz\_16QAM\_RB50\_0\_CH20525



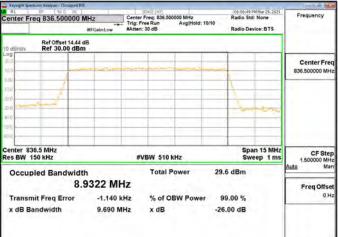
### OBW Band5 10MHz 16OAM RB50 0 CH20600

	trum Analyzer - Occupied BVI					1018
Center Fre	eq 844.000000 N	Trig.	sENSE:INT r Freq: 844.000000 MHz Free Run AvgiHold: n: 30 dB	10/10	Radio Std: None Radio Device: BTS	Frequency
10 devdiv	Ref Offset 14.44 d Ref 30.00 dBm					
20.0 10.0	-					Center Free 844.000000 MH
10.0	1				Diana	
0.0 0.0						
Center 84	4 MHz				Span 15 MHz	
Res BW 1			VBW 510 kHz		Sweep 1 ms	1.500000 MH
Occup	ied Bandwidth 8.9	388 MHz	Total Power	30.6	dBm	Auto Mar Freq Offse
	hit Freq Error andwidth	2.252 kHz 9.695 MHz	% of OBW Powe x dB		.00 % 00 dB	01
90				TATU		

### OBW\_Band5\_10MHz\_64QAM\_RB50\_0\_CH20450

Keypight Spec	trum Analyzer - O(copied EVI		T SINGLING		~		Mar 29, 2021	1424 9 10
	eq 829.000000 M	T IL	Center Freq: 829.000000 MHz Trig: Free Run AvgiHold: 10/10 WAtten: 30 dB		R 10	Radio Std: None Radio Device: BTS		Frequency
10 dBidiv	Ref Offset 14.44 d Ref 30.00 dBm							_
00 20.0 (1)5	-				-	_		Center Free 829.000000 MH
10,0	1						_	
0.0					-	v.		
0.0) (D)(C)								
Center 82 Res BW 1			#VBW 510	kHz			ep 1 ms	CF Step 1.500000 MH
Occup	ied Bandwidt		Total F	ower	29.1 d	Bm		Auto Mar
	8.9 hit Freq Error andwidth	9423 MHz -3.501 kHz 9.692 MHz	% of O	BW Power	99.0 -26.00			Freq Offse 0 H
83					ITANOE			

#### OBW\_Band5\_10MHz\_64QAM\_RB50\_0\_CH20525



### OBW Band5 10MHz 64OAM RB50 0 CH20600

RL	eq 844.000000 M	VIHz Cen	strist-per nter Freq: 844.00 g: Free Run tten: 30 dB	0000 MHz AvgiHold: 10 <sup>r</sup>	Radio Std		Frequency
10 dFūdiv	Ref Offset 14.44 c Ref 30.00 dBm	1B			1000000		
20.0					_		Center Free 844.000000 MH
10.0 10 D	1				In	_	
00 00							
center 84 tes BW 1			#VBW 510	kHz		n 15 MHz ep 1 ms	CF Ste 1.500000 MH
Occup	oied Bandwidt 8.9	<sup>h</sup> 9424 MHz	Total F	Power	28.5 dBm		Auto Ma
	nit Freq Error andwidth	-13.166 kHz 9.643 MHz	% of O x dB	BW Power	99.00 % -26.00 dB		OΗ
0					TATIO	-	-

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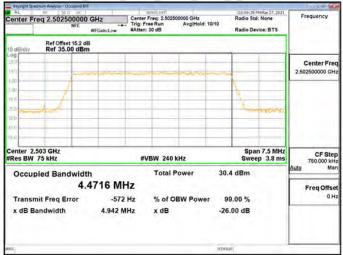
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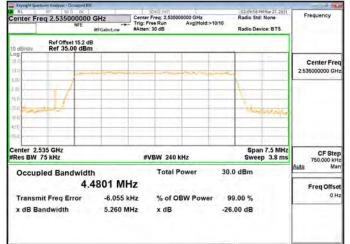


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### OBW\_Band7\_5MHz\_QPSK\_RB25\_0\_CH20775



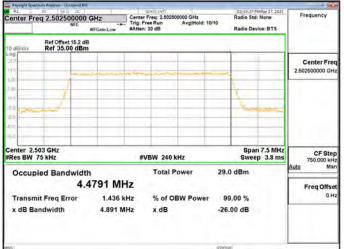
#### OBW\_Band7\_5MHz\_QPSK\_RB25\_0\_CH21100



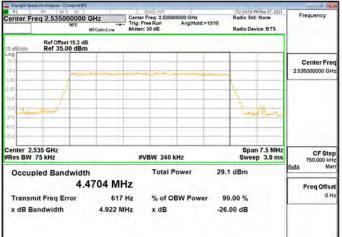
### OBW Band7 5MHz OPSK RB25 0 CH21425

Keysight Spectrum Analy	Ser - Occupied B/I		SENSE:INT			8 PM Mar 27, 2021	
enter Freq 2.5	67500000 C	-p. Tri	Center Freq: 2.567500000 GHz			itd: None	Frequency
Ref	Offset 15.2 dB	AP (SBIELOW WY			10000		
o devdiv Ref	35.00 dBm						
50							Center Free
50						1	2.567500000 GH
							2.0070000000
	/					_	
sn	1					-	
50	1				1.00	Acres 1	
50			1.1				
cm							
5.0							
1							
enter 2.568 GH Res BW 75 kHz		÷	#VBW 240	kHz		ep 3.8 ms	CF Step 750.000 kH
Occupied E	andudidth		Total I	Power	30.2 dBm		Auto Mar
Occupied E				ono.	OULL OBIL		
	4.4	782 MHz					Freq Offse
<b>Transmit Fre</b>	q Error	-4.597 kHz	% of O	BW Power	99.00 %		OH
x dB Bandwi	dth	4,923 MHz	x dB		-26.00 dB		-
a.					TATUS		

#### OBW Band7 5MHz 16QAM RB25 0 CH20775



#### OBW\_Band7\_5MHz\_16QAM\_RB25\_0\_CH21100



## OBW Band7 5MHz 16OAM RB25 0 CH21425

AL .	P 200 00 00		SEMSE:INT	00000 GHz	Radio Std: 1		Frequency
Seriler Pre	NFE	Tr	g: Free Run tten: 30 dB	0 Radio Devic			
0 devalu	Ref Offset 15.2 dB Ref 35.00 dBm						
.00 250 150			-				Center Fre 2.567500000 GH
	1					-	
5.0							
50						_	
enter 2.5 Res BW			#VBW 240	kHz		7.5 MHz 3.8 ms	CF Ste 750.000 kH
Occup	ied Bandwidth	723 MHz	Total I	Power	29.2 dBm		Auto Ma
Transm	it Freq Error	-309 Hz	% of O	BW Power	99.00 %		Freq Offse 0 H
x dB Ba	ndwidth	4.888 MHz	x dB		-26.00 dB		
să.					TRATION		

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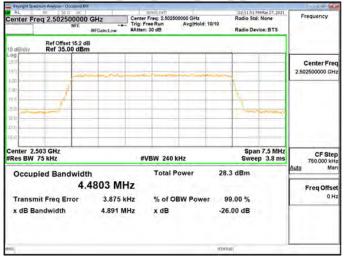
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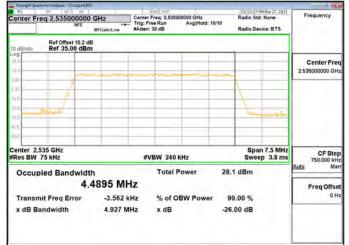


# Report No.: ER/2021/20010 Page: 136 of 465

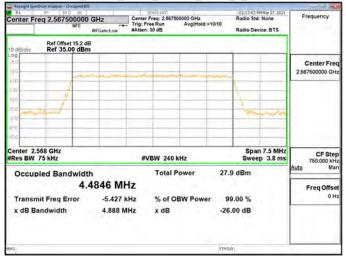
### OBW\_Band7\_5MHz\_64QAM\_RB25\_0\_CH20775



#### OBW\_Band7\_5MHz\_64QAM\_RB25\_0\_CH21100



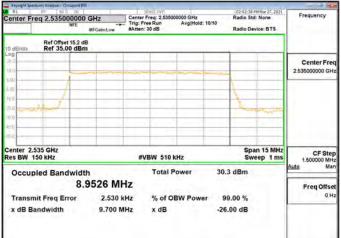
#### OBW Band7 5MHz 64QAM RB25 0 CH21425



#### OBW Band7 10MHz QPSK RB50 0 CH20800



#### OBW Band7 10MHz\_QPSK\_RB50\_0\_CH21100



### OBW Band7 10MHz OPSK RB50 0 CH21400

Center Fr	eq 2.565000000 NFE	Trig	SENSELINT Center Freq: 2,565000000 GHz Trig: Free Run AvgiHold; 10/10 #Atten: 30 dB			PM Mar 27, 2021 2: None vice: BTS	Frequency
10 dEVdiv	Ref Offset 15.2 dB Ref 35.00 dBm				-		
150 6.00	-						Center Fred 2.565000000 GHz
š av) 15 ti	1				+		
3.0							
Center 2. Res BW 1			#VBW 510 kH	Iz		an 15 MHz eep 1 ms	CF Step 1.500000 MHz
Occup	bied Bandwidth 8.9	n 9493 MHz	Total Po	wer 3	0.4 dBm		Auto Mar Freg Offse
	nit Freq Error andwidth	8.717 kHz 9.720 MHz	% of OB x dB		99.00 % 26.00 dB		0 Hz
90				17	ATLAN		

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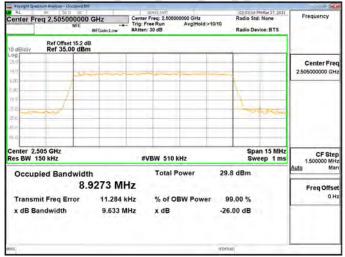
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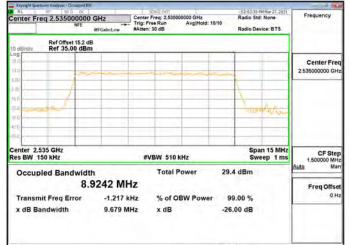


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### OBW\_Band7\_10MHz\_16QAM\_RB50\_0\_CH20800



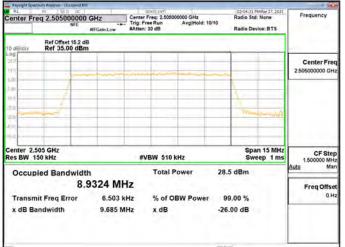
#### OBW\_Band7\_10MHz\_16QAM\_RB50\_0\_CH21100



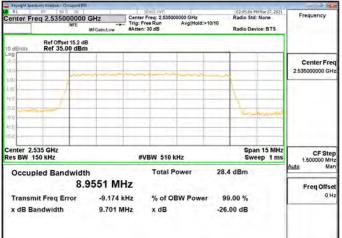
## OBW Band7 10MHz 16QAM RB50 0 CH21400

RL RL	eq 2.565000000		SENSE:INT ter Freq: 2.565000000 GHz	02:03:54 PMMar 27, 2021 Radio Std: None	Frequency
Center Pro	NEE	Trig	FreeRun Avg Hold.>1 ten: 30 dB		
10 dEVdiv	Ref Offset 15.2 dB Ref 35.00 dBm				
25.0 -					Center Free
190 6.00	-			~	2.565000000 GH
8.00) 16.0	1			1	
50 000				m-come	
4610					
Center 2.5	565 GHz			Span 15 MHz	
Res BW 1			#VBW 510 kHz	Sweep 1 ms	CF Ste 1.500000 MH
Occup	ied Bandwidth	310 MHz	Total Power	29.5 dBm	Auto Mar
Transm	nit Freq Error	8.111 kHz	% of OBW Power	99.00 %	Freq Offse 0 H
x dB Ba	andwidth	9.639 MHz	x dB	-26.00 dB	1.1
60				II TATUS	

#### OBW Band7 10MHz 64QAM RB50 0 CH20800



#### OBW\_Band7\_10MHz\_64QAM\_RB50\_0\_CH21100



### OBW Band7 10MHz 64OAM RB50 0 CH21400

RL .	eq 2.565000000	GHz Cen	SENSE:INT ter Freq: 2.565000000 Free Run Av	GHz g Hold: 10/10	Radio Std		Frequency
		#FGain:Low #Att	en: 30 dB		Radio Dev	ice: BTS	
10 dEVdiv	Ref Offset 15.2 dB Ref 35.00 dBm			_			
150							Center Free 2.565000000 GH
6.00 5.00	1				1		
151 15.0 310	and the				1-	n	
4510				_			
Center 2.5 Res BW 1			#VBW 510 kHz	_		n 15 MHz ep 1 ms	CF Ste 1.500000 MH
Occup	ied Bandwidth		Total Powe	er 28	.2 dBm		<u>Auto</u> Ma
Transm	0.3 hit Freq Error	-2.896 kHz	% of OBW	Power S	99.00 %		Freq Offse 0 H
x dB Ba	andwidth	9.670 MHz	x dB	-2	6.00 dB		
90							

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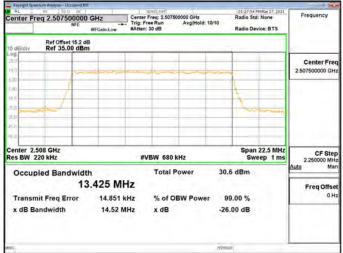
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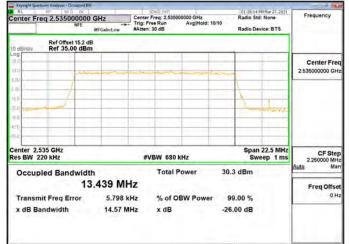


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### OBW\_Band7\_15MHz\_QPSK\_RB75\_0\_CH20825



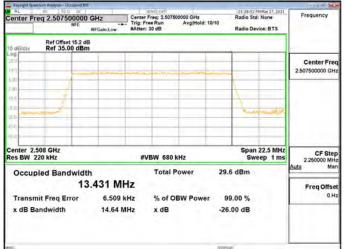
#### OBW Band7 \_15MHz\_QPSK\_RB75\_0\_CH21100



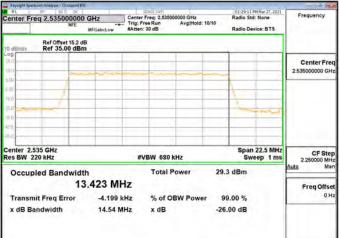
## OBW Band7 15MHz QPSK RB75 0 CH21375

AL E	PE 30.0 DC		SENSE:INT			33 PM Mar 27, 2021	Frequency
Center Fre	rq 2.562500000	-p. Tri	Center Freq: 2.562500000 GHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB			Std: None Device: BTS	Frequency
tô dEudiy	Ref Offset 15.2 dB Ref 35.00 dBm						
Log	Ref 35.00 uBin	1				1.1.1.1.1	
1513				-			Center Free 2.562500000 GH:
6.00	-					1	2.002000000
1.01 ·····	1		_		-	_	
1611	1			-	1		
5.0 00000			1 1 1			monum	
30 4-m							
15.0							
Center 2.5	62 CH7				Pa	an 22.5 MHz	
Res BW 22			#VBW 680	kHz		weep 1 ms	CF Step 2 250000 MH
Occupi	ied Bandwidt		Total I	Power	30.3 dBm	1	Auto Mar
occup		460 MHz	0.0000		. co.c ac		
-					00.00.0/		Freq Offse
	it Freq Error	14.919 kHz		BW Power			
х ов ва	ndwidth	14.51 MHz	x dB		-26.00 dB		
190					TTATUS		

#### OBW\_Band7\_15MHz\_16QAM\_RB75\_0\_CH20825



#### OBW\_Band7\_15MHz\_16QAM\_RB75\_0\_CH21100



## OBW Band7 15MHz 16OAM RB75 0 CH21375

Center Fr	eq 2.562500000 NFE	-p. Tr	sense nvr inter Freq: 2.5628 ig: Free Run itten: 30 dB	00000 GHz Avg Hold: 10/10	Radio Device: BTS	Frequency
10 dEvdiv	Ref Offset 15.2 d Ref 35.00 dBn					
.og 250	-	-				Center Fred 2.562500000 GH:
ini (51	1					
50 60 50						
enter 2.5 tes BW 2			#VBW 680	kHz	Span 22.5 MH Sweep 1 m	2.250000 MH
Occup	oied Bandwidt	h 3.543 MHz	Total I	Power 3	80.0 dBm	Auto Mar
	nit Freq Error andwidth	-78.839 kHz 14.08 MHz	100.00	BW Power	99.00 % 26.00 dB	0H
i i					NATUR (	

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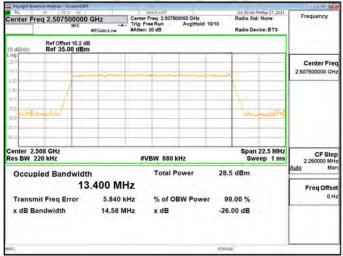
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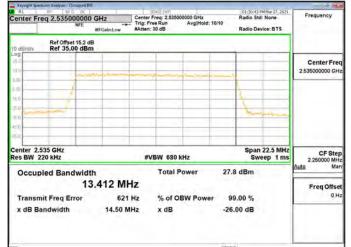


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### OBW\_Band7\_15MHz\_64QAM\_RB75\_0\_CH20825



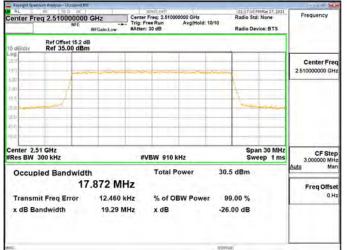
#### OBW Band7 \_15MHz\_64QAM\_RB75\_0\_CH21100



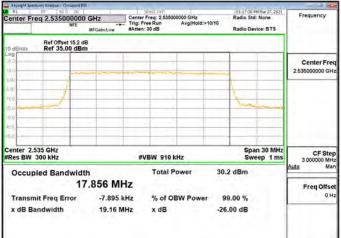
## OBW Band7 15MHz 64QAM RB75 0 CH21375

AL E	PE 50 0 00 00	GHz	enter Freq: 2.5620	000000 GHz Avg Hold > 10/10	Radio St	PMMar 27, 2021 d: None	Frequency
	NFE		Atten: 30 dB	Avginoid:*10/10		ivice: BTS	
10 dEUdiv	Ref Offset 15.2 dE Ref 35.00 dBm						
150							Center Free 2.562500000 GH:
6.00 ×					1		1
3.0	-				100	and the second	
45 D							
Center 2.5 Res BW 2			#VBW 680	kHz		eep 1 ms	CF Step 2.250000 MH
Occup	ied Bandwidt	1	Total I	Power	28.2 dBm		Auto Mar
	13	.398 MHz					Freq Offse
Transm	it Freq Error	12.165 kH	% of C	BW Power	99.00 %		0 H:
x dB Ba	andwidth	14.52 MH	z xdB		-26.00 dB		
Hai I					TATUS		

#### OBW Band7 20MHz QPSK RB100 0 CH20850



#### OBW\_Band7\_20MHz\_QPSK\_RB100\_0\_CH21100



### OBW Band7 20MHz OPSK RB100 0 CH21350

Center Fre	eq 2.560000000 NFE	Trig	sEnse INT er Freq: 2,560000000 Free Run Av en: 30 dB	C1117:46 PM Mar 27, 2021 Radio Std: None Radio Device: BTS		Frequency	
10 devdiv	Ref Offset 15.2 dE Ref 35.00 dBm					_	
250							Center Fred 2.56000000 GH:
1.00 191					1		
30 401 80							
Center 2.5 Res BW			#VBW 910 kHz			n 30 MHz ep 1 ms	CF Ste 3.000000 MH
Occup	ied Bandwidti 17	.880 MHz	Total Powe	er 30	).3 dBm		Auto Mar Freq Offse
	hit Freq Error andwidth	9.195 kHz 19.28 MHz	% of OBW x dB		99.00 % 6.00 dB		0H
90					ma		

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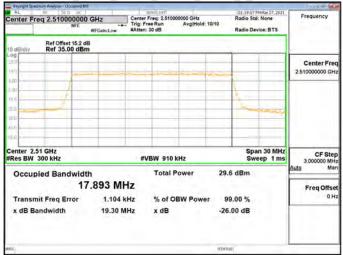
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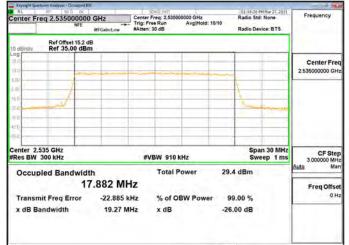


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### OBW\_Band7\_20MHz\_16QAM\_RB100\_0\_CH20850



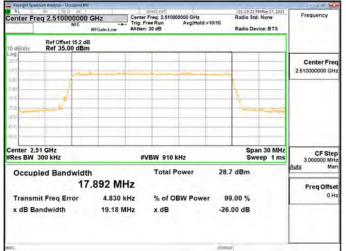
#### OBW\_Band7\_20MHz\_16QAM\_RB100\_0\_CH21100



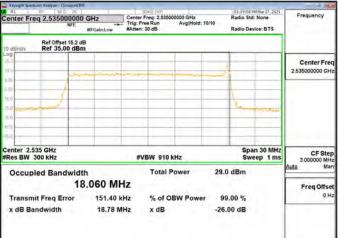
### OBW Band7 20MHz 16QAM RB100 0 CH21350

Keysight Tures	thrum Analyzer - Occupied BVI RF 1 30 0 OC 1		SENSE-INT		01:18:46 PM Mar 27, 2021	
Center Fr	eq 2.56000000	-	Center Freq: 2.5600 Trig: Free Run	00000 GHz Avg Hold; 10/10	Radio Std: None	Frequency
		#FGain:Low	#Atten: 30 dB		Radio Device: BTS	
10 dEVdiv	Ref Offset 15.2 dB Ref 35.00 dBm					
25.0						Center Fred
150						2.56000000 GH
6.000						-
6.4I					1.	
50	1				A	
30					and the second s	
450						
85.0						
Center 2.5			#VBW 910	kHz	Span 30 MHz Sweep 1 ms	CF Step 3.000000 MHz
0	ied Bandwidth		Total F	Power 2	9.5 dBm	Auto Mar
Occup	and the second se	.919 MH		oner 2	0.0 0011	5.0.22.0
G. Sec					Sector 2	Freq Offsel
	nit Freq Error	-7.982 kH	S	BW Power	99.00 %	
x dB Ba	andwidth	19.24 MH	z xdB		26.00 dB	
690)				17	ATL/B	

#### OBW\_Band7\_20MHz\_64QAM\_RB100\_0\_CH20850



#### OBW\_Band7\_20MHz\_64QAM\_RB100\_0\_CH21100



## OBW Band7 20MHz 64OAM RB100 0 CH21350

Center Fre	eq 2.560000000 NFE	Trig.	SENSE INT Freq: 2.560000000 G Free Run Avg n: 30 dB	Hz Hold: 10/10	01:20:34 PM Mar 27, 2021 Radio Std: None Radio Device: BTS		Frequency
10 dEUdiv	Ref Offset 15.2 dE Ref 35.00 dBm						
25 0	-				-		Center Fred 2.56000000 GHa
50,000					Low	and an in the second second	
451							
Center 2.5 Res BW			VBW 910 kHz			eep 1 ms	CF Step 3.000000 MH
Occup	ied Bandwidt		Total Power	28	.2 dBm		Auto Mar
	17 it Freq Error indwidth	-117 Hz -117 Hz 19.35 MHz	% of OBW P x dB		99.00 % 6.00 dB		Freq Offset 0 Hz
90				1174	TUR		

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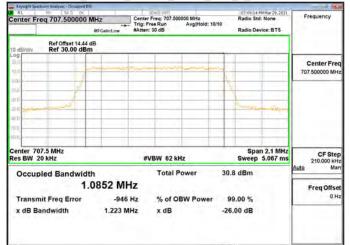


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### OBW\_Band12\_1.4MHz\_QPSK\_RB6\_0\_CH23017

Center Fr	eq 699.700000 M	AHz #FGain:Low	Center Fre Trig: Free #Atten: 30	Run	Avg Hold: 10	10	Radio St	PMMar 29, 2021 d: None vice: BTS	Frequency
10 dBidiv	Ref Offset 14.44 d Ref 30.00 dBm								
.og. 20.0 (0.15			-	m					Center Free 699.700000 MH
0.000	1					3			-
0.0						-	1-2-0		
0.0								-	
enter 69 tes BW 2			#VB	N 62 kH	łz	-		n 2.1 MHz 5.067 ms	CF Ste 210.000 kH
Occup	ied Bandwidt	h 0844 MH		Total P	ower	30.7	/ dBm		Auto Ma
	nit Freq Error andwidth	-300 I 1.216 Mi	Hz	% of Ol x dB	BW Power		9.00 % 00 dB		OH
80						STATU	_		

#### OBW\_Band12\_1.4MHz\_QPSK\_RB6\_0\_CH23095



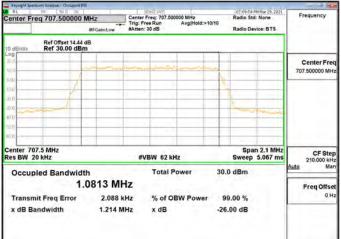
## OBW Band12 1.4MHz OPSK RB6 0 CH23173

RL	eq 715.300000 N	Hz Cent	SEMSE:INT er Freq: 715.300000 MHz	07-08:53 PMMar 29, 2021 Radio Std: None	Frequency
]		-+- Trig.	Free Run Avg Hold: 1 n: 30 dB	0/10 Radio Device: BTS	
10 dEvdiv	Ref Offset 14.44 d Ref 30.00 dBm	В			
20.0 10.0				-	Center Free 715.300000 MH
0.00	1			X	
10	ment			homes	
10 Q					
60.0					
Center 71 Res BW 2		1	VBW 62 kHz	Span 2.1 MHz Sweep 5.067 ms	210.000 kH
Occup	ied Bandwidt		Total Power	31.1 dBm	Auto Mar
		0832 MHz			Freq Offse
	hit Freq Error Andwidth	-1.096 kHz 1.213 MHz	% of OBW Power x dB	99.00 % -26.00 dB	0H
60)				(INTATIA)	

#### OBW Band12 1.4MHz 16QAM RB6 0 CH23017

Keypight Spect	trum Analyzer - Occupied W		T SINGL				at an at	PMMar 29, 2021	142100
Center Fre	eq 699.700000 I	MHz NFGain:Low	Center Freq:	699.70000	00 MHz Avg Hold:	10/10	Radio Std: None Radio Device: BTS		Frequency
tó devidiv	Ref Offset 14.44	dB							
000 20.0 (0.0				-		-			Center Free 699.700000 MH
10,01	1				_				
							1-2	molon	
0 0 0									
enter 69 es BW 2			#VBW	62 kHz				an 2.1 MHz 5.067 ms	CF Ster 210.000 kH
Occup	ied Bandwidt			otal Po	wer	29	9 dBm		Auto Mar
	A	0851 MH							Freq Offset
	iit Freq Error Indwidth	2.568 ki 1.223 M		of OB dB	W Powe		9.00 % 5.00 dB		
83						IIIAY	00		

#### OBW\_Band12\_1.4MHz\_16QAM\_RB6\_0\_CH23095



## OBW Band12 1.4MHz 16OAM RB6 0 CH23173

RL	Per 190 0 000 PM	IH7 Ce	Center Freq: 715.300000 MHz Trig: Free Run Avg Hold: 10/10			(07:10:13 PMMar 29, 2021 Radio Std: None		Frequency
		#FGain:Low #Atten: 30 dB Radio Device: BTS						
0 devdiv								
00 00		minup			4			Center Fre 715.300000 MH
0.00 0.07 0.07	1				À			1
0.00						hay	north the	
00								
center 715.3 MHz Span 2.1 MHz tes BW 20 kHz \$VBW 62 kHz \$weep 5.067 ms								CF Sto 210.000 k
Occupi	ied Bandwidth	0840 MHz	0.0.000 0.0000 0.000			.0 dBm		Auto Ma
Transmit Freq Error 1.790 kł			z % of OBW Power S			99.00 %		Prequits
x dB Ba	ndwidth	1.211 MHz	x dB		-26.	.00 dB		
ú.					TATU	h (		

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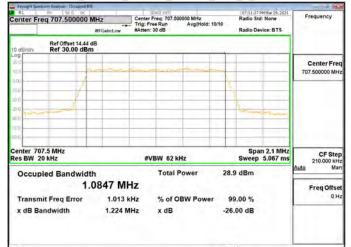


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### OBW\_Band12\_1.4MHz\_64QAM\_RB6\_0\_CH23017

Center Fre	rq 699.700000 N	SANGIETRET Center Freq: 699.700000 MHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB			07:10:50 PMMar 29, 2021 Radio Std: None Radio Device: BTS		Frequency		
tó dBidiv	Ref Offset 14.44 d Ref 30.00 dBm	_							
20.0 (0.0	- in	-			-			Center Free 699.700000 MH	
10,0	A								
100						1			
ain wa						-			
	tenter 699.7 MHz Span 2.1 MHz tes BW 20 kHz #VBW 62 kHz Sweep 5.067 ms							CF Ste 210.000 ki	
Occupi	Occupied Bandwidth						28.8 dBm		
1.0831 MH Transmit Freg Error 492				% of OBW Power		.00 %		Freq Offs 0 F	
x dB Bandwidth 1.218 M		1.218 MH	Hz x dB		-26	-26.00 dB			
					57/10		1		

#### OBW\_Band12\_1.4MHz\_64QAM\_RB6\_0\_CH23095



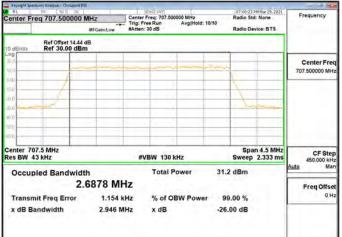
## OBW Band12 1.4MHz 64QAM RB6 0 CH23173

Center Fre	eq 715.300000 M	- Tr	Center Freq: 715.300000 MHz Trig: Free Run AvgiHold: 10/10			07:12:04 PM Mar 29, 2021 Radio Std: None Radio Device: BTS	Frequency
Ref Offset 14.44 dB 10 dB3div Ref 30.00 dBm							
100							Center Free 715.300000 MH
11.0°	1				3		
0.02						manun	
50.0 50.0					-		
Center 715.3 MHz Span 2.1 MHz Res BW 20 kHz #VBW 62 kHz Sweep 5.067 ms							210.000 kH
Occup	ied Bandwidth 1.0	843 MHz	1			i dBm	Auto Mar Freg Offse
		769 Hz 1.220 MHz				0.00 % 00 dB	он
90					TTATU		

#### OBW Band12 3MHz QPSK RB15 0 CH23025



#### OBW\_Band12\_3MHz\_QPSK\_RB15\_0\_CH23095



## OBW Band12 3MHz OPSK RB15 0 CH23165

Keyseld Sector Analyse Occupied SM AL RE 20 G C Center Freq 714,500000 MHz #FCaint ov			SENSE:INT Iter Freq: 714.500 p: Free Run ten: 30 dB	Radio Dev		Frequency	
10 dEudiy	Ref Offset 14.44 d Ref 30.00 dBm						
000- 000- 000-	-				-		Center Free 714.500000 MH
10.0 10.0	1						1
0.0							
0.0					Pnar	4.6 MH	
Center 714.5 MHz Span 4.5 MHz Res BW 43 kHz #VBW 130 kHz Sweep 2.333 ms							CF Ste 450.000 k
Occup	bied Bandwidth	5861 MHz	Total P	31.4 dBm		Auto Ma	
Transmit Freq Error -727 I x dB Bandwidth 2.941 M			% of OE x dB	99.00 % -26.00 dB		Freq Offse 0 H	
á.					TRATIA		-

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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