

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Microsoft Corporation
One Microsoft Way, Redmond, WA 98052-6399 USA

Product Name: Portable Computing Device

Brand Name: Microsoft

Model No.: 2022

Report Number: ER/2021/80082

FCC ID C3K2022

IC: 3048A-2022

Issue Date: October 15, 2021

Date of Test: August 24, 2021~October 14, 2021

Date of EUT Received: August 24, 2021

Jet Lu

Approved By _____

Jet Lu

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 comply with FCC rule part 2, 22H & 24E & 27 C & 90S and ISSED RSS-Gen, 130, 132, 133, 139, 140, 195, 199.

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By
ER/2021/80082	00	Original.	October 15, 2021	Karen Huang

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	Portable Computing Device	
Brand Name:	Microsoft	
Model No.:	2022	
Normal Test Version:	10.0.22000.1	
IMEI:	004403150387399	
Power Supply:	7.66 Vdc from Rechargeable Li-polymer Battery or 15Vdc from AC/DC Adapter	
	Battery:	Model No.: DYNU01, Supplier: DYNAPACK
	Adapter:	Model No.: 1735, Supplier: Lite On

Note:

This report is for host model 2022 which contains the module FCC ID: C3K1956 and IC: 3048A-1956.

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1.2 Operation Frequency Range

LTE Band 2	
BW (MHz)	Operation Frequency (MHz)
1.4	1850.7 - 1909.3
3	1851.5 - 1908.5
5	1852.5 - 1907.5
10	1855.0 - 1905.0
15	1857.5 - 1902.5
20	1860.0 - 1900.0
LTE Band 4	
BW (MHz)	Operation Frequency (MHz)
1.4	1710.7 - 1754.3
3	1711.5 - 1753.5
5	1712.5 - 1752.5
10	1715.0 - 1750.0
15	1717.5 - 1747.5
20	1720.0 - 1745.0
LTE Band 5	
BW (MHz)	Operation Frequency (MHz)
1.4	824.7 - 848.3
3	825.5 - 847.5
5	826.5 - 846.5
10	829.0 - 844.0
LTE Band 7	
BW (MHz)	Operation Frequency (MHz)
5	2502.5 - 2567.5
10	2505.0 - 2565.0
15	2507.5 - 2562.5
20	2510.0 - 2560.0

LTE Band 12	
BW (MHz)	Operation Frequency (MHz)
1.4	699.7 - 715.3
3	700.5 - 714.5
5	701.5 - 713.5
10	704.0 - 711.0
LTE Band 13	
BW (MHz)	Operation Frequency (MHz)
5	779.5 - 784.5
10	782.0
LTE Band 14	
BW (MHz)	Operation Frequency (MHz)
5	790.5 - 795.5
10	793.0
LTE Band 25	
BW (MHz)	Operation Frequency (MHz)
1.4	1850.7 - 1914.3
3	1851.5 - 1913.5
5	1852.5 - 1912.5
10	1855.0 - 1910.0
15	1857.5 - 1907.5
20	1860.0 - 1905.0
LTE Band 26 Part 90	
BW (MHz)	Operation Frequency (MHz)
1.4	814.7 - 823.3
3	815.5 - 822.5
5	816.5 - 821.5
10	819.0

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LTE Band 26	
BW (MHz)	Operation Frequency (MHz)
1.4	824.7 - 848.3
3	825.5 - 847.5
5	826.5 - 846.5
10	829.0 - 844.0
15	831.5 - 841.5
LTE Band 30	
BW (MHz)	Operation Frequency (MHz)
5	2307.5 - 2312.5
10	2310.0
LTE Band 38	
BW (MHz)	Operation Frequency (MHz)
5	2572.5 - 2617.5
10	2575.0 - 2615.0
15	2577.5 - 2612.5
20	2580.0 - 2610.0

LTE Band 41	
BW (MHz)	Operation Frequency (MHz)
5	2498.5 - 2687.5
10	2501.0 - 2685.0
15	2503.5 - 2682.5
20	2506.0 - 2680.0
LTE Band 66	
BW (MHz)	Operation Frequency (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

Note: Operation frequency 814~842MHz is disabled in Canada.

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1.3 Antenna Designation

Antenna Type	Main / Aux
Monopole	Main
Note: Transmission in frequencies in this test report are only available by the above antenna(s).	

Modulation	Frequency (MHz)		Peak Antenna Gain (dBi)
			Main
LTE-Band 2	1850	~ 1910	0.7
LTE-Band 4	1710	~ 1755	2.4
LTE-Band 5	824	~ 849	-2.5
LTE-Band 7	2500	~ 2570	1.3
LTE-Band 12	699	~ 716	-2.0
LTE-Band 13	777	~ 787	-1.9
LTE-Band 14	788	~ 798	-1.9
LTE-Band 25	1850	~ 1915	0.7
LTE-Band 26	824	~ 849	-2.5
LTE-Band 26 Part 90	814	~ 824	-2.5
LTE-Band 30	2305	~ 2315	0.4
LTE-Band 38	2570	~ 2620	0.6
LTE-Band 41	2496	~ 2690	1.3
LTE-Band 66	1710	~ 1780	2.4

Note: Antenna information is provided by the applicant.

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

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
2	1.4	QPSK	25.14	EIRP	0.327	1.0851	1M09G7D
		16QAM	24.14	EIRP	0.259	1.0858	1M09D7W
		64QAM	23.25	EIRP	0.211	1.0840	1M08D7W
2	3	QPSK	24.97	EIRP	0.314	2.6863	2M69G7D
		16QAM	24.17	EIRP	0.261	2.6892	2M69D7W
		64QAM	23.30	EIRP	0.214	2.6900	2M69D7W
2	5	QPSK	25.00	EIRP	0.316	4.4832	4M48G7D
		16QAM	24.49	EIRP	0.281	4.4820	4M48D7W
		64QAM	23.04	EIRP	0.201	4.4786	4M48D7W
2	10	QPSK	25.19	EIRP	0.330	8.9690	8M97G7D
		16QAM	24.74	EIRP	0.298	8.9322	8M93D7W
		64QAM	23.39	EIRP	0.218	8.9675	8M97D7W
2	15	QPSK	25.03	EIRP	0.318	13.450	13M5G7D
		16QAM	24.61	EIRP	0.289	13.422	13M4D7W
		64QAM	23.37	EIRP	0.217	13.429	13M4D7W
2	20	QPSK	25.16	EIRP	0.328	17.877	17M9G7D
		16QAM	24.73	EIRP	0.297	17.913	17M9D7W
		64QAM	23.35	EIRP	0.216	17.884	17M9D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
4	1.4	QPSK	25.54	EIRP	0.358	1.0857	1M09G7D
		16QAM	24.96	EIRP	0.313	1.0857	1M09D7W
		64QAM	23.67	EIRP	0.233	1.0847	1M08D7W
4	3	QPSK	25.55	EIRP	0.359	2.6869	2M69G7D
		16QAM	24.70	EIRP	0.295	2.6896	2M69D7W
		64QAM	23.62	EIRP	0.230	2.6912	2M69D7W
4	5	QPSK	25.60	EIRP	0.363	4.4799	4M48G7D
		16QAM	24.96	EIRP	0.313	4.4808	4M48D7W
		64QAM	23.98	EIRP	0.250	4.4818	4M48D7W
4	10	QPSK	25.68	EIRP	0.370	8.9704	8M97G7D
		16QAM	24.95	EIRP	0.313	8.9339	8M93D7W
		64QAM	23.75	EIRP	0.237	8.9591	8M96D7W
4	15	QPSK	25.73	EIRP	0.374	13.4440	13M4G7D
		16QAM	25.15	EIRP	0.327	13.4230	13M4D7W
		64QAM	23.77	EIRP	0.238	13.4390	13M4D7W
4	20	QPSK	25.80	EIRP	0.380	17.8800	17M9G7D
		16QAM	25.09	EIRP	0.323	17.9060	17M9D7W
		64QAM	23.93	EIRP	0.247	17.8800	17M9D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
5	1.4	QPSK	19.21	ERP	0.083	1.0840	1M08G7D
		16QAM	18.71	ERP	0.074	1.0853	1M09D7W
		64QAM	18.67	ERP	0.074	1.0837	1M08D7W
5	3	QPSK	19.24	ERP	0.084	2.6891	2M69G7D
		16QAM	18.41	ERP	0.069	2.6918	2M69D7W
		64QAM	18.50	ERP	0.071	2.6932	2M69D7W
5	5	QPSK	19.27	ERP	0.085	4.4801	4M48G7D
		16QAM	18.58	ERP	0.072	4.4819	4M48D7W
		64QAM	18.49	ERP	0.071	4.4904	4M49D7W
5	10	QPSK	19.30	ERP	0.085	8.9697	8M97G7D
		16QAM	18.68	ERP	0.074	8.9350	8M94D7W
		64QAM	18.72	ERP	0.074	8.9516	8M95D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
7	5	QPSK	22.68	EIRP	0.185	4.4805	4M48G7D
		16QAM	22.17	EIRP	0.165	4.4827	4M48D7W
		64QAM	20.82	EIRP	0.121	4.4920	4M49D7W
7	10	QPSK	22.70	EIRP	0.186	8.9812	8M98G7D
		16QAM	22.29	EIRP	0.169	8.9492	8M95D7W
		64QAM	21.06	EIRP	0.128	8.9637	8M96D7W
7	15	QPSK	22.82	EIRP	0.191	13.4230	13M4G7D
		16QAM	22.03	EIRP	0.160	13.4390	13M4D7W
		64QAM	21.19	EIRP	0.132	13.4170	13M4D7W
7	20	QPSK	22.86	EIRP	0.193	17.8770	17M9G7D
		16QAM	22.34	EIRP	0.171	17.9110	17M9D7W
		64QAM	21.15	EIRP	0.130	17.8770	17M9D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
12	1.4	QPSK	19.64	ERP	0.092	1.0860	1M09G7D
		16QAM	18.91	ERP	0.078	1.0856	1M09D7W
		64QAM	17.81	ERP	0.060	1.0837	1M08D7W
12	3	QPSK	19.64	ERP	0.092	2.6867	2M69G7D
		16QAM	18.81	ERP	0.076	2.6907	2M69D7W
		64QAM	17.80	ERP	0.060	2.6921	2M69D7W
12	5	QPSK	19.71	ERP	0.094	4.4766	4M48G7D
		16QAM	18.86	ERP	0.077	4.4821	4M48D7W
		64QAM	17.90	ERP	0.062	4.4865	4M49D7W
12	10	QPSK	19.72	ERP	0.094	8.9726	8M97G7D
		16QAM	18.92	ERP	0.078	8.9526	8M95D7W
		64QAM	17.84	ERP	0.061	8.9623	8M96D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
13	5	QPSK	19.86	ERP	0.097	4.4817	4M48G7D
		16QAM	19.00	ERP	0.079	4.4803	4M48D7W
		64QAM	18.06	ERP	0.064	4.4918	4M49D7W
13	10	QPSK	19.97	ERP	0.099	8.9549	8M95G7D
		16QAM	19.08	ERP	0.081	8.9303	8M93D7W
		64QAM	18.00	ERP	0.063	8.9396	8M94D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
14	5	QPSK	19.82	ERP	0.096	4.4885	4M49G7D
		16QAM	19.10	ERP	0.081	4.4791	4M48D7W
		64QAM	18.03	ERP	0.064	4.4877	4M49D7W
14	10	QPSK	19.89	ERP	0.097	8.9373	8M94G7D
		16QAM	18.98	ERP	0.079	8.9254	8M93D7W
		64QAM	17.81	ERP	0.060	8.9422	8M94D7W

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
25	1.4	QPSK	24.82	EIRP	0.303	1.0844	1M08G7D
		16QAM	23.93	EIRP	0.247	1.0844	1M08D7W
		64QAM	23.01	EIRP	0.200	1.0819	1M08D7W
25	3	QPSK	24.79	EIRP	0.301	2.6854	2M69G7D
		16QAM	24.01	EIRP	0.252	2.6859	2M69D7W
		64QAM	22.90	EIRP	0.195	2.6905	2M69D7W
25	5	QPSK	24.92	EIRP	0.310	4.4797	4M48G7D
		16QAM	23.83	EIRP	0.242	4.4854	4M49D7W
		64QAM	22.91	EIRP	0.195	4.4872	4M49D7W
25	10	QPSK	24.87	EIRP	0.307	8.9648	8M96G7D
		16QAM	24.04	EIRP	0.254	8.9415	8M94D7W
		64QAM	22.92	EIRP	0.196	8.9569	8M96D7W
25	15	QPSK	24.90	EIRP	0.309	13.4370	13M4G7D
		16QAM	23.97	EIRP	0.249	13.4360	13M4D7W
		64QAM	23.02	EIRP	0.200	13.4160	13M4D7W
25	20	QPSK	24.97	EIRP	0.314	17.8680	17M9G7D
		16QAM	24.14	EIRP	0.259	17.9070	17M9D7W
		64QAM	22.87	EIRP	0.194	17.8900	17M9D7W
LTE Band	BW	Modulation	Conducted (dBm)		(W)	99%	Type of Emission
26 Part 90	1.4	QPSK	23.84		0.242	1.0852	1M09G7D
		16QAM	23.02		0.200	1.0840	1M08D7W
		64QAM	22.04		0.160	1.0830	1M08D7W
26 Part 90	3	QPSK	23.84		0.242	2.6856	2M69G7D
		16QAM	22.92		0.196	2.6857	2M69D7W
		64QAM	21.95		0.157	2.6888	2M69D7W
26 Part 90	5	QPSK	23.87		0.244	4.4782	4M48G7D
		16QAM	22.98		0.199	4.4816	4M48D7W
		64QAM	22.00		0.158	4.4934	4M49D7W
26 Part 90	10	QPSK	23.89		0.245	8.9477	8M95G7D
		16QAM	23.00		0.200	8.9255	8M93D7W
		64QAM	21.92		0.156	8.9345	8M93D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
26	1.4	QPSK	19.19	ERP	0.083	1.0847	1M08G7D
		16QAM	18.34	ERP	0.068	1.0852	1M09D7W
		64QAM	17.30	ERP	0.054	1.0829	1M08D7W
26	3	QPSK	19.20	ERP	0.083	2.6869	2M69G7D
		16QAM	18.43	ERP	0.070	2.6850	2M69D7W
		64QAM	17.43	ERP	0.055	2.6892	2M69D7W
26	5	QPSK	19.29	ERP	0.085	4.4838	4M48G7D
		16QAM	18.43	ERP	0.070	4.4831	4M48D7W
		64QAM	17.43	ERP	0.055	4.4946	4M49D7W
26	10	QPSK	19.26	ERP	0.084	8.9654	8M97G7D
		16QAM	18.50	ERP	0.071	8.9419	8M94D7W
		64QAM	17.37	ERP	0.055	8.9490	8M95D7W
26	15	QPSK	19.31	ERP	0.085	13.4400	13M4G7D
		16QAM	18.39	ERP	0.069	13.4210	13M4D7W
		64QAM	17.55	ERP	0.057	13.4060	13M4D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm/5MHz)		(W)	99%	Type of Emission
30	5	QPSK	22.83	EIRP	0.192	4.4849	4M48G7D
		16QAM	22.01	EIRP	0.159	4.4806	4M48D7W
		64QAM	22.01	EIRP	0.159	4.4923	4M49D7W
30	10	QPSK	22.91	EIRP	0.195	8.9591	8M96G7D
		16QAM	22.13	EIRP	0.163	8.9269	8M93D7W
		64QAM	22.00	EIRP	0.158	8.9417	8M94D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
38	5	QPSK	24.29	EIRP	0.269	4.4813	4M48G7D
		16QAM	23.44	EIRP	0.221	4.4840	4M48D7W
		64QAM	23.42	EIRP	0.220	4.4953	4M50D7W
38	10	QPSK	24.28	EIRP	0.268	8.9504	8M95G7D
		16QAM	23.49	EIRP	0.223	8.9360	8M94D7W
		64QAM	23.34	EIRP	0.216	8.9588	8M96D7W
38	15	QPSK	24.35	EIRP	0.272	13.4110	13M4G7D
		16QAM	23.50	EIRP	0.224	13.4180	13M4D7W
		64QAM	23.39	EIRP	0.218	13.4130	13M4D7W
38	20	QPSK	24.41	EIRP	0.276	17.8790	17M9G7D
		16QAM	23.54	EIRP	0.226	17.8560	17M9D7W
		64QAM	23.43	EIRP	0.220	17.8790	17M9D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
41	5	QPSK	24.97	EIRP	0.314	4.4897	4M49G7D
		16QAM	24.19	EIRP	0.262	4.4785	4M48D7W
		64QAM	24.05	EIRP	0.254	4.4910	4M49D7W
41	10	QPSK	25.17	EIRP	0.329	8.9415	8M94G7D
		16QAM	24.04	EIRP	0.254	8.9325	8M93D7W
		64QAM	23.92	EIRP	0.247	8.9485	8M95D7W
41	15	QPSK	24.91	EIRP	0.310	13.4320	13M4G7D
		16QAM	24.13	EIRP	0.259	13.4270	13M4D7W
		64QAM	24.07	EIRP	0.255	13.4070	13M4D7W
41	20	QPSK	25.17	EIRP	0.329	17.8720	17M9G7D
		16QAM	25.65	EIRP	0.367	17.8610	17M9D7W
		64QAM	25.34	EIRP	0.342	17.8540	17M9D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
66	1.4	QPSK	25.63	EIRP	0.366	1.0846	1M08G7D
		16QAM	24.78	EIRP	0.301	1.0829	1M08D7W
		64QAM	23.78	EIRP	0.239	1.0825	1M08D7W
66	3	QPSK	25.71	EIRP	0.372	2.6858	2M69G7D
		16QAM	24.87	EIRP	0.307	2.6942	2M69D7W
		64QAM	24.83	EIRP	0.304	2.6882	2M69D7W
66	5	QPSK	25.81	EIRP	0.381	4.4806	4M48G7D
		16QAM	24.93	EIRP	0.311	4.4830	4M48D7W
		64QAM	24.70	EIRP	0.295	4.4911	4M49D7W
66	10	QPSK	25.75	EIRP	0.376	8.9611	8M96G7D
		16QAM	25.04	EIRP	0.319	8.9434	8M94D7W
		64QAM	24.78	EIRP	0.301	8.9567	8M96D7W
66	15	QPSK	25.81	EIRP	0.381	13.4450	13M4G7D
		16QAM	25.10	EIRP	0.324	13.4230	13M4D7W
		64QAM	24.88	EIRP	0.308	13.4060	13M4D7W
66	20	QPSK	25.83	EIRP	0.383	17.8850	17M9G7D
		16QAM	24.90	EIRP	0.309	17.9230	17M9D7W
		64QAM	24.89	EIRP	0.308	17.8750	17M9D7W

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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-133 Issue 6, Amendment 1 Jan. 18, 2018,
- ISED RSS-140 Issue 1 Apr. 2018,
- ISED RSS-199 Issue 3 Dec. 2016
- ANSI C63.26-2015
- KDB971168 D01 Power Meas license Digital System v03r01
- KDB412172 D01 Determining ERP and EIRP v01r01
- ISED RSS-132 Issue 3 Jan. 2013
- ISED RSS-139 Issue 3 July 16, 2015
- ISED RSS-195 Issue 2 Apr. 24, 2014

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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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)	4.3	10	14.3
MB(1GHz - 2GHz)	4.55	10	14.55
MB(2GHz - 3GHz)	5	10	15

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2.5 Final Amplifier Voltage and Current Information:

LTE Band 2

Test mode	DC voltage (V)	DC current (mA)
LTE Band 2_20M QPSK	7.66	590

LTE Band 4

Test mode	DC voltage (V)	DC current (mA)
LTE Band 4_20M QPSK	7.66	650

LTE Band 5

Test mode	DC voltage (V)	DC current (mA)
LTE Band 5_10M QPSK	7.66	663

LTE Band 7

Test mode	DC voltage (V)	DC current (mA)
LTE Band 7_20M QPSK	7.66	640

LTE Band 12

Test mode	DC voltage (V)	DC current (mA)
LTE Band 5_10M QPSK	7.66	671

LTE Band 13

Test mode	DC voltage (V)	DC current (mA)
LTE Band 13_10M QPSK	7.66	655

LTE Band 14

Test mode	DC voltage (V)	DC current (mA)
LTE Band 14_10M QPSK	7.66	643

LTE Band 25

Test mode	DC voltage (V)	DC current (mA)
LTE Band 25_20M QPSK	7.66	615

LTE Band 26 for Part 90S

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 26_10M QPSK	7.66	600

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LTE Band 26

Test mode	DC voltage (V)	DC current (mA)
LTE Band 26_15M QPSK	7.66	637

LTE Band 30

Test mode	DC voltage (V)	DC current (mA)
LTE Band 30_10M QPSK	7.66	671

LTE Band 38

Test mode	DC voltage (V)	DC current (mA)
LTE Band 38_20M QPSK	7.66	666

LTE Band 41

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 41_20M QPSK	7.66	649

LTE Band 66

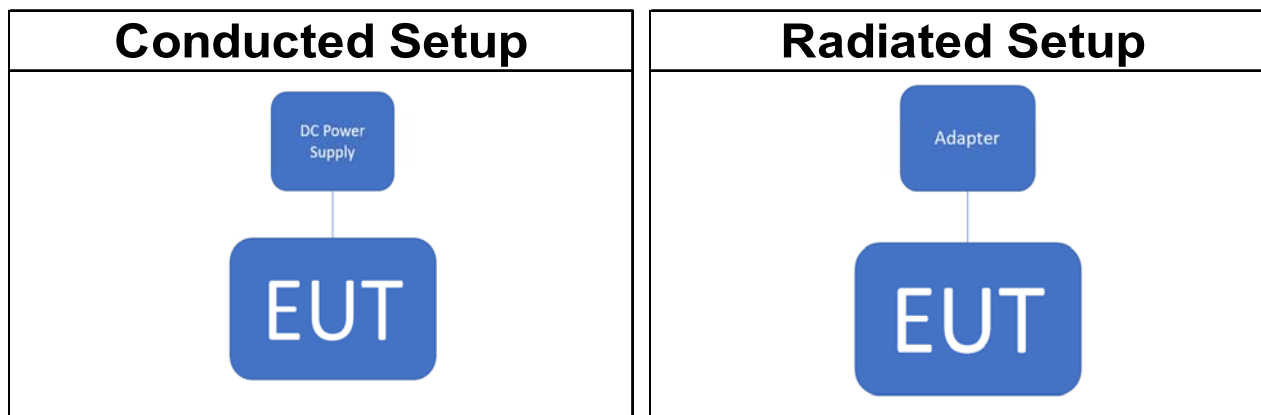
Test mode	DC voltage (V)	DC current (mA)
LTE Band 66_20M QPSK	7.66	700

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2.6 Test Configuration



2.7 Control Unit(s)

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	Microsoft	1735	NA	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(b)(10) §27.50(a)(7) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.542(a)(7) §90.635	RSS-130 §4.6 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.5 RSS-140 §4.3 RSS-195 §5.5 RSS-199 §4.4	ERP/ EIRP measurement	Compliant
§2.1049(h)	RSS-GEN §6.7	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a)(b) §24.238(a) §27.50(c) §27.53(a) (4) §27.53(g) §27.53(h) §27.53(m)(4) §90.543(e)(2)(3) §90.210(n) §90.691	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-140 §4.4 RSS-195 §5.6 RSS-199 §4.5	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §2.1057(a)(1) §22.917(a) §24.238(a) 27.53(a) §27.53 (c)(f) §27.53(g) §27.53(h) §27.53(m)(2) §90.543(e)(3) §90.543 (f) §90.691	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-140 §4.4 RSS-195 §5.6 RSS-199 §4.5	Field Strength of Spurious Radiation	Compliant
§24.232(d) 27.50(B) §27.50(a)(1)(B)	RSS-130 §4.6.1 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.4 RSS-140 §4.3 RSS-195 §5.5 RSS-199 §4.4	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.539 (e)	RSS-130 §4.5 RSS-132 §5.3 RSS-133 §6.3 RSS-139 §6.5 RSS-140 §4.2 RSS-195 §5.4 RSS-199 §4.3	Frequency Stability	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
3. X(E1)Y(E2)Z(H) 3 axis are observed to find higher emissions for radiated spurious emission measurement recorded in this report.

4.2 Measurement Configuration

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full
Max. Output Power	2	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
	5	V	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	V
	12	V	V	V	V	V	V	V	-	-	V	V	V	V	V	V
	13	V	V	V	-	-	V	V	-	-	V	V	V	V	V	V
	14	V	V	V	-	-	V	V	-	-	V	V	V	V	V	V
	25	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	26	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
	30	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
	41	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
Frequency Stability	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
	13	-	V	-	-	-		V	-	-	V	-	-	-	-	V
	14	-	V	-	-	-		V	-	-	V	-	-	-	-	V
	25	-	V	-				V			V	-	-	-	-	V
	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

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Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full
26dB and 99% Bandwidth	2	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
	5	V	V	V	V	V	V	V	-	-	V	V	V	-	-	V
	7	V	V	V	-	-	V	V	V	V	V	V	V	-	-	V
	12	V	V	V	V	V	V	V	-	-	V	V	V	-	-	V
	13	V	V	V	-	-	V	V	-	-	V	V	V	-	-	V
	14	V	V	V	-	-	V	V	-	-	V	V	V	-	-	V
	25	V	V	V	V	V	V	V	V	V	V	V	V	-	-	V
	26	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
	30	V	V	V	-	-	V	V	-	-	V	V	V	-	-	V
	38	V	V	V	-	-	V	V	V	V	V	V	V	-	-	V
	41	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
Peak-to-Average Ratio	2	V	V	V	V	V	V	V	V	V	V	V		-	-	V
	4	V	V	V	V	V	V	V	V	V	V	V		-	-	V
	5	V	V	V	V	V	V	V	-	-	V	V		-	-	V
	7	V	V	V	-	-	V	V	V	V	V	V		-	-	V
	12	V	V	V	V	V	V	V	-	-	V	V		-	-	V
	13	V	V	V	-	-	V	V	-	-	V	V		-	-	V
	14	V	V	V	-	-	V	V	-	-	V	V		-	-	V
	25	V	V	V	V	V	V	V	V	V	V	V		-	-	V
	26	V	V	V	V	V	V	V	V	-	V	V		-	-	V
	26 P90	V	V	V	V	V	V	V	-	-	V	V		-	-	V
	30	V	V	V	-	-	V	V	-	-	V	V		-	-	V
	38	V	V	V	-	-	V	V	V	V	V	V		-	-	V
	41	V	V	V	-	-	V	V	V	V	V	V		-	-	V
	66	V	V	V	V	V	V	V	V	V	V	V		-	-	V

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Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full
Band Edge	2	V	-	V	V	V	V	V	V	V	V	-	-	V	V	V
	4	V	-	V	V	V	V	V	V	V	V	-	-	V	V	V
	5	V	-	V	V	V	V	V	-	-	V	-	-	V	V	V
	7	V	-	V	-	-	V	V	V	V	V	-	-	V	V	V
	12	V	-	V	V	V	V	V	-	-	V	-	-	V	V	V
	13	V	-	V	-	-	V	V	-	-	V	-	-	V	V	V
	14	V	-	V	-	-	V	V	-	-	V	-	-	V	V	V
	25	V	-	V	V	V	V	V	V	V	V	-	-	V	V	V
	26	V	-	V	V	V	V	V	V	-	V	-	-	V	V	V
	26 P90	V	-	V	V	V	V	V	-	-	V	-	-	V	V	V
	30	V	-	V	-	-	V	V	-	-	V	-	-	V	V	V
	38	V	-	V	-	-	V	V	V	V	V	-	-	V	V	V
	41	V	-	V	-	-	V	V	V	V	V	-	-	V	V	V
	66	V	-	V	V	V	V	V	V	V	V	-	-	V	V	V
Conducted Emission	2	V	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	-	-
	13	V	V	V	-	-		V	-	-	V	-	-	V	-	-
	14	V	V	V	-	-		V	-	-	V	-	-	V	-	-
	25	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	-	-

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Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full
Radiated Emission	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		
	13	v	v	v	-	-		v	-	-	v			v		
	14	v	v	v	-	-		v	-	-	v			v		
	25	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		

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1 dB
ERP/ EIRP measurement	+/- 3 dB
	+/- 3 dB
Emission Bandwidth	+/- 1.53 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.69 dB
Peak to Average Ratio	+/- 1 dB
Frequency Stability vs. Temperature	+/- 1.53 Hz
Frequency Stability vs. Voltage	+/- 1.53 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 2.64 dB	9kHz~30MHz
	+/- 4.93 dB	30MHz - 1000MHz
	+/- 4.81 dB	1GHz - 18GHz
	+/- 4.52 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 2.64 dB	9kHz~30MHz
	+/- 4.45 dB	30MHz - 1000MHz
	+/- 4.81 dB	1GHz - 18GHz
	+/- 4.52 dB	18GHz - 40GHz

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

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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 (b)

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

FCC 27.50(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 90.542(a)

(7) Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

FCC 90.635(b)

Mobile station is limited to 100W ERP

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RSS-130 §4.6

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

RSS-132 §5.4

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

RSS-133 §6.4

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

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

RSS-139 §6.5

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

RSS-140 §4.3

The equivalent radiated power (e.r.p.) for control and mobile equipment shall not exceed 30 W. The e.r.p. for portable equipment including handheld devices shall not exceed 3 W.

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 Partnership 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

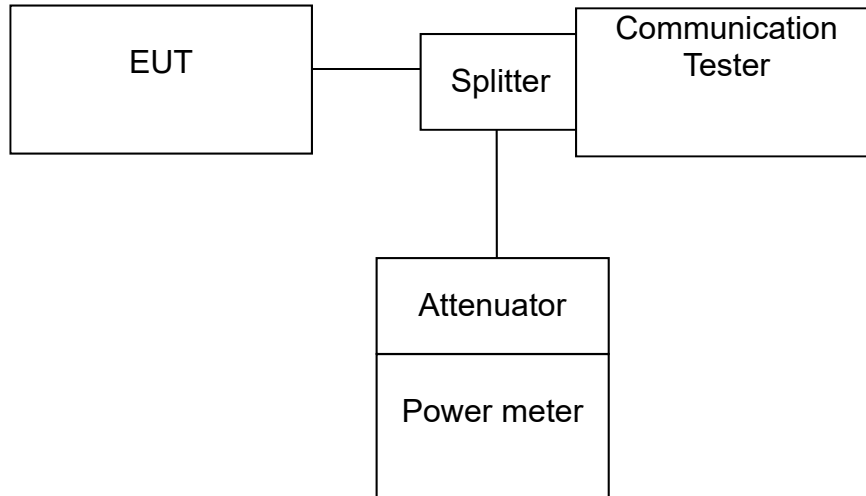
For mobile subscriber equipment operating in the Band 2500-2690MHz, the e.i.r.p. shall not exceed 2 W.

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6.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3 Output Power Measurement Applicable Guidance

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

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

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

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

6.5 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	02/24/2021	02/23/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/29/2020	10/28/2021

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6.6 Measurement Results:

Antenna gain (dBi)		0.7							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	24.00	24.70	33	-8.3
				1	5	23.98	24.68	33	-8.32
				3	2	24.06	24.76	33	-8.24
				6	0	23.06	23.76	33	-9.24
	18900	1880	QPSK	1	0	23.55	24.25	33	-8.75
				1	5	23.88	24.58	33	-8.42
				3	2	23.94	24.64	33	-8.36
				6	0	22.95	23.65	33	-9.35
	19193	1909.3	QPSK	1	0	24.44	25.14	33	-7.86
				1	5	24.21	24.91	33	-8.09
				3	2	24.26	24.96	33	-8.04
				6	0	23.27	23.97	33	-9.03
1.4	18607	1850.7	16QAM	1	0	23.24	23.94	33	-9.06
				1	5	23.07	23.77	33	-9.23
				3	2	22.94	23.64	33	-9.36
				6	0	22.17	22.87	33	-10.13
	18900	1880	16QAM	1	0	23.05	23.75	33	-9.25
				1	5	22.98	23.68	33	-9.32
				3	2	22.96	23.66	33	-9.34
				6	0	22.02	22.72	33	-10.28
	19193	1909.3	16QAM	1	0	23.44	24.14	33	-8.86
				1	5	23.09	23.79	33	-9.21
				3	2	23.28	23.98	33	-9.02
				6	0	22.36	23.06	33	-9.94
1.4	18607	1850.7	64QAM	1	0	22.10	22.80	33	-10.2
				1	5	22.05	22.75	33	-10.25
				3	2	22.25	22.95	33	-10.05
				6	0	21.06	21.76	33	-11.24
	18900	1880	64QAM	1	0	22.24	22.94	33	-10.06
				1	5	22.13	22.83	33	-10.17
				3	2	22.00	22.70	33	-10.3
				6	0	20.95	21.65	33	-11.35
	19193	1909.3	64QAM	1	0	22.55	23.25	33	-9.75
				1	5	22.06	22.76	33	-10.24
				3	2	22.25	22.95	33	-10.05
				6	0	21.21	21.91	33	-11.09

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Antenna gain (dBi)		0.7							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	24.23	24.93	33	-8.07
				1	14	24.14	24.84	33	-8.16
				8	4	23.18	23.88	33	-9.12
				15	0	23.14	23.84	33	-9.16
	18900	1880	QPSK	1	0	23.91	24.61	33	-8.39
				1	14	23.95	24.65	33	-8.35
				8	4	23.03	23.73	33	-9.27
				15	0	23.01	23.71	33	-9.29
	19185	1908.5	QPSK	1	0	24.27	24.97	33	-8.03
				1	14	24.22	24.92	33	-8.08
				8	4	23.38	24.08	33	-8.92
				15	0	23.34	24.04	33	-8.96
3	18615	1851.5	16QAM	1	0	23.17	23.87	33	-9.13
				1	14	23.20	23.90	33	-9.1
				8	4	22.24	22.94	33	-10.06
				15	0	22.21	22.91	33	-10.09
	18900	1880	16QAM	1	0	23.20	23.90	33	-9.1
				1	14	23.26	23.96	33	-9.04
				8	4	22.11	22.81	33	-10.19
				15	0	22.01	22.71	33	-10.29
	19185	1908.5	16QAM	1	0	23.47	24.17	33	-8.83
				1	14	22.66	23.36	33	-9.64
				8	4	22.44	23.14	33	-9.86
				15	0	22.37	23.07	33	-9.93
3	18615	1851.5	64QAM	1	0	21.96	22.66	33	-10.34
				1	14	22.60	23.30	33	-9.7
				8	4	21.18	21.88	33	-11.12
				15	0	21.14	21.84	33	-11.16
	18900	1880	64QAM	1	0	22.03	22.73	33	-10.27
				1	14	22.11	22.81	33	-10.19
				8	4	21.11	21.81	33	-11.19
				15	0	21.07	21.77	33	-11.23
	19185	1908.5	64QAM	1	0	22.51	23.21	33	-9.79
				1	14	22.23	22.93	33	-10.07
				8	4	21.38	22.08	33	-10.92
				15	0	21.36	22.06	33	-10.94

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Antenna gain (dBi)		0.7							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	24.16	24.86	33	-8.14
				1	24	24.24	24.94	33	-8.06
				12	6	23.18	23.88	33	-9.12
				25	0	23.14	23.84	33	-9.16
	18900	1880	QPSK	1	0	24.14	24.84	33	-8.16
				1	24	23.99	24.69	33	-8.31
				12	6	23.08	23.78	33	-9.22
				25	0	22.98	23.68	33	-9.32
	19175	1907.5	QPSK	1	0	24.28	24.98	33	-8.02
				1	24	24.30	25.00	33	-8
				12	6	23.36	24.06	33	-8.94
				25	0	23.36	24.06	33	-8.94
5	18625	1852.5	16QAM	1	0	23.42	24.12	33	-8.88
				1	24	23.18	23.88	33	-9.12
				12	6	22.21	22.91	33	-10.09
				25	0	22.14	22.84	33	-10.16
	18900	1880	16QAM	1	0	23.28	23.98	33	-9.02
				1	24	23.33	24.03	33	-8.97
				12	6	22.08	22.78	33	-10.22
				25	0	22.06	22.76	33	-10.24
	19175	1907.5	16QAM	1	0	23.79	24.49	33	-8.51
				1	24	23.60	24.30	33	-8.7
				12	6	22.44	23.14	33	-9.86
				25	0	22.32	23.02	33	-9.98
5	18625	1852.5	64QAM	1	0	22.14	22.84	33	-10.16
				1	24	22.20	22.90	33	-10.1
				12	6	21.21	21.91	33	-11.09
				25	0	21.19	21.89	33	-11.11
	18900	1880	64QAM	1	0	21.85	22.55	33	-10.45
				1	24	22.15	22.85	33	-10.15
				12	6	21.11	21.81	33	-11.19
				25	0	21.02	21.72	33	-11.28
	19175	1907.5	64QAM	1	0	22.30	23.00	33	-10
				1	24	22.34	23.04	33	-9.96
				12	6	21.39	22.09	33	-10.91
				25	0	21.40	22.10	33	-10.9

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Antenna gain (dBi)		0.7							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	24.49	25.19	33	-7.81
				1	49	24.11	24.81	33	-8.19
				25	12	23.16	23.86	33	-9.14
				50	0	23.14	23.84	33	-9.16
	18900	1880	QPSK	1	0	24.31	25.01	33	-7.99
				1	49	23.99	24.69	33	-8.31
				25	12	23.10	23.80	33	-9.2
				50	0	23.07	23.77	33	-9.23
	19150	1905	QPSK	1	0	24.36	25.06	33	-7.94
				1	49	24.25	24.95	33	-8.05
				25	12	23.41	24.11	33	-8.89
				50	0	23.37	24.07	33	-8.93
10	18650	1855	16QAM	1	0	24.04	24.74	33	-8.26
				1	49	23.60	24.30	33	-8.7
				25	12	22.18	22.88	33	-10.12
				50	0	22.21	22.91	33	-10.09
	18900	1880	16QAM	1	0	23.30	24.00	33	-9
				1	49	23.27	23.97	33	-9.03
				25	12	22.06	22.76	33	-10.24
				50	0	22.05	22.75	33	-10.25
	19150	1905	16QAM	1	0	23.61	24.31	33	-8.69
				1	49	23.14	23.84	33	-9.16
				25	12	22.40	23.10	33	-9.9
				50	0	22.43	23.13	33	-9.87
10	18650	1855	64QAM	1	0	22.69	23.39	33	-9.61
				1	49	22.33	23.03	33	-9.97
				25	12	21.18	21.88	33	-11.12
				50	0	21.28	21.98	33	-11.02
	18900	1880	64QAM	1	0	22.17	22.87	33	-10.13
				1	49	22.43	23.13	33	-9.87
				25	12	21.01	21.71	33	-11.29
				50	0	21.09	21.79	33	-11.21
	19150	1905	64QAM	1	0	22.06	22.76	33	-10.24
				1	49	22.04	22.74	33	-10.26
				25	12	21.42	22.12	33	-10.88
				50	0	21.50	22.20	33	-10.8

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Antenna gain (dBi)		0.7							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	24.27	24.97	33	-8.03
				1	74	24.00	24.70	33	-8.3
				36	18	23.21	23.91	33	-9.09
				75	0	23.19	23.89	33	-9.11
	18900	1880	QPSK	1	0	24.11	24.81	33	-8.19
				1	74	23.99	24.69	33	-8.31
				36	18	23.06	23.76	33	-9.24
				75	0	23.06	23.76	33	-9.24
	19125	1902.5	QPSK	1	0	24.33	25.03	33	-7.97
				1	74	24.25	24.95	33	-8.05
				36	18	23.40	24.10	33	-8.9
				75	0	23.42	24.12	33	-8.88
15	18675	1857.5	16QAM	1	0	23.59	24.29	33	-8.71
				1	74	23.52	24.22	33	-8.78
				36	18	22.21	22.91	33	-10.09
				75	0	22.17	22.87	33	-10.13
	18900	1880	16QAM	1	0	23.91	24.61	33	-8.39
				1	74	23.04	23.74	33	-9.26
				36	18	22.13	22.83	33	-10.17
				75	0	22.18	22.88	33	-10.12
	19125	1902.5	16QAM	1	0	23.61	24.31	33	-8.69
				1	74	23.43	24.13	33	-8.87
				36	18	22.42	23.12	33	-9.88
				75	0	22.45	23.15	33	-9.85
15	18675	1857.5	64QAM	1	0	22.53	23.23	33	-9.77
				1	74	22.24	22.94	33	-10.06
				36	18	21.16	21.86	33	-11.14
				75	0	21.23	21.93	33	-11.07
	18900	1880	64QAM	1	0	21.99	22.69	33	-10.31
				1	74	22.22	22.92	33	-10.08
				36	18	21.19	21.89	33	-11.11
				75	0	21.10	21.80	33	-11.2
	19125	1902.5	64QAM	1	0	22.45	23.15	33	-9.85
				1	74	22.67	23.37	33	-9.63
				36	18	21.48	22.18	33	-10.82
				75	0	21.45	22.15	33	-10.85

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Antenna gain (dBi)		0.7							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	24.41	25.11	33	-7.89
				1	99	24.25	24.95	33	-8.05
				50	25	23.18	23.88	33	-9.12
				100	0	23.20	23.90	33	-9.1
	18900	1880	QPSK	1	0	24.22	24.92	33	-8.08
				1	99	24.13	24.83	33	-8.17
				50	25	23.06	23.76	33	-9.24
				100	0	23.10	23.80	33	-9.2
	19100	1900	QPSK	1	0	24.46	25.16	33	-7.84
				1	99	24.31	25.01	33	-7.99
				50	25	23.39	24.09	33	-8.91
				100	0	23.44	24.14	33	-8.86
20	18700	1860	16QAM	1	0	23.50	24.20	33	-8.8
				1	99	22.97	23.67	33	-9.33
				50	25	22.23	22.93	33	-10.07
				100	0	22.13	22.83	33	-10.17
	18900	1880	16QAM	1	0	23.40	24.10	33	-8.9
				1	99	23.35	24.05	33	-8.95
				50	25	22.11	22.81	33	-10.19
				100	0	22.04	22.74	33	-10.26
	19100	1900	16QAM	1	0	24.03	24.73	33	-8.27
				1	99	22.99	23.69	33	-9.31
				50	25	22.43	23.13	33	-9.87
				100	0	22.40	23.10	33	-9.9
20	18700	1860	64QAM	1	0	22.65	23.35	33	-9.65
				1	99	22.16	22.86	33	-10.14
				50	25	21.21	21.91	33	-11.09
				100	0	21.22	21.92	33	-11.08
	18900	1880	64QAM	1	0	21.43	22.13	33	-10.87
				1	99	22.27	22.97	33	-10.03
				50	25	21.17	21.87	33	-11.13
				100	0	21.12	21.82	33	-11.18
	19100	1900	64QAM	1	0	22.51	23.21	33	-9.79
				1	99	22.55	23.25	33	-9.75
				50	25	21.41	22.11	33	-10.89
				100	0	21.51	22.21	33	-10.79

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Antenna gain (dBi)		2.4							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	22.91	25.31	30	-4.69
				1	5	23.01	25.41	30	-4.59
				3	2	23.14	25.54	30	-4.46
				6	0	21.99	24.39	30	-5.61
	20175	1732.5	QPSK	1	0	22.91	25.31	30	-4.69
				1	5	22.90	25.30	30	-4.7
				3	2	22.98	25.38	30	-4.62
				6	0	21.96	24.36	30	-5.64
	20393	1754.3	QPSK	1	0	22.85	25.25	30	-4.75
				1	5	22.87	25.27	30	-4.73
				3	2	22.86	25.26	30	-4.74
				6	0	21.92	24.32	30	-5.68
1.4	19957	1710.7	16QAM	1	0	22.52	24.92	30	-5.08
				1	5	22.56	24.96	30	-5.04
				3	2	22.20	24.60	30	-5.4
				6	0	21.26	23.66	30	-6.34
	20175	1732.5	16QAM	1	0	22.08	24.48	30	-5.52
				1	5	22.09	24.49	30	-5.51
				3	2	22.04	24.44	30	-5.56
				6	0	21.08	23.48	30	-6.52
	20393	1754.3	16QAM	1	0	22.17	24.57	30	-5.43
				1	5	22.20	24.60	30	-5.4
				3	2	21.86	24.26	30	-5.74
				6	0	21.00	23.40	30	-6.6
1.4	19957	1710.7	64QAM	1	0	21.27	23.67	30	-6.33
				1	5	20.91	23.31	30	-6.69
				3	2	21.23	23.63	30	-6.37
				6	0	20.08	22.48	30	-7.52
	20175	1732.5	64QAM	1	0	21.02	23.42	30	-6.58
				1	5	21.00	23.40	30	-6.6
				3	2	20.97	23.37	30	-6.63
				6	0	19.96	22.36	30	-7.64
	20393	1754.3	64QAM	1	0	21.05	23.45	30	-6.55
				1	5	21.00	23.40	30	-6.6
				3	2	21.12	23.52	30	-6.48
				6	0	19.91	22.31	30	-7.69

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Antenna gain (dBi)		2.4							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	23.15	25.55	30	-4.45
				1	14	23.06	25.46	30	-4.54
				8	4	22.11	24.51	30	-5.49
				15	0	22.16	24.56	30	-5.44
	20175	1732.5	QPSK	1	0	22.96	25.36	30	-4.64
				1	14	22.97	25.37	30	-4.63
				8	4	22.06	24.46	30	-5.54
				15	0	22.05	24.45	30	-5.55
	20385	1753.5	QPSK	1	0	22.86	25.26	30	-4.74
				1	14	22.87	25.27	30	-4.73
				8	4	21.97	24.37	30	-5.63
				15	0	21.99	24.39	30	-5.61
3	19965	1711.5	16QAM	1	0	22.30	24.70	30	-5.3
				1	14	22.30	24.70	30	-5.3
				8	4	21.26	23.66	30	-6.34
				15	0	21.16	23.56	30	-6.44
	20175	1732.5	16QAM	1	0	22.28	24.68	30	-5.32
				1	14	22.27	24.67	30	-5.33
				8	4	21.11	23.51	30	-6.49
				15	0	21.06	23.46	30	-6.54
	20385	1753.5	16QAM	1	0	22.09	24.49	30	-5.51
				1	14	22.07	24.47	30	-5.53
				8	4	21.07	23.47	30	-6.53
				15	0	21.04	23.44	30	-6.56
3	19965	1711.5	64QAM	1	0	21.22	23.62	30	-6.38
				1	14	21.15	23.55	30	-6.45
				8	4	20.25	22.65	30	-7.35
				15	0	20.14	22.54	30	-7.46
	20175	1732.5	64QAM	1	0	21.20	23.60	30	-6.4
				1	14	21.10	23.50	30	-6.5
				8	4	20.12	22.52	30	-7.48
				15	0	20.08	22.48	30	-7.52
	20385	1753.5	64QAM	1	0	21.22	23.62	30	-6.38
				1	14	21.09	23.49	30	-6.51
				8	4	20.01	22.41	30	-7.59
				15	0	20.01	22.41	30	-7.59

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Antenna gain (dBi)		2.4							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	23.20	25.60	30	-4.4
				1	24	23.11	25.51	30	-4.49
				12	6	22.19	24.59	30	-5.41
				25	0	22.18	24.58	30	-5.42
	20175	1732.5	QPSK	1	0	23.05	25.45	30	-4.55
				1	24	23.01	25.41	30	-4.59
				12	6	22.04	24.44	30	-5.56
				25	0	22.04	24.44	30	-5.56
	20375	1752.5	QPSK	1	0	22.98	25.38	30	-4.62
				1	24	22.88	25.28	30	-4.72
				12	6	21.97	24.37	30	-5.63
				25	0	21.94	24.34	30	-5.66
5	19975	1712.5	16QAM	1	0	22.56	24.96	30	-5.04
				1	24	22.47	24.87	30	-5.13
				12	6	21.20	23.60	30	-6.4
				25	0	21.17	23.57	30	-6.43
	20175	1732.5	16QAM	1	0	22.16	24.56	30	-5.44
				1	24	22.13	24.53	30	-5.47
				12	6	21.14	23.54	30	-6.46
				25	0	21.11	23.51	30	-6.49
	20375	1752.5	16QAM	1	0	22.09	24.49	30	-5.51
				1	24	21.91	24.31	30	-5.69
				12	6	20.99	23.39	30	-6.61
				25	0	20.96	23.36	30	-6.64
5	19975	1712.5	64QAM	1	0	21.58	23.98	30	-6.02
				1	24	21.40	23.80	30	-6.2
				12	6	20.24	22.64	30	-7.36
				25	0	20.18	22.58	30	-7.42
	20175	1732.5	64QAM	1	0	21.29	23.69	30	-6.31
				1	24	21.21	23.61	30	-6.39
				12	6	20.18	22.58	30	-7.42
				25	0	20.04	22.44	30	-7.56
	20375	1752.5	64QAM	1	0	21.19	23.59	30	-6.41
				1	24	21.14	23.54	30	-6.46
				12	6	20.14	22.54	30	-7.46
				25	0	19.97	22.37	30	-7.63

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Antenna gain (dBi)		2.4										
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz												
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)			
10	20000	1715	QPSK	1	0	23.28	25.68	30	-4.32			
				1	49	23.07	25.47	30	-4.53			
				25	12	21.68	24.08	30	-5.92			
				50	0	22.23	24.63	30	-5.37			
	20175	1732.5	QPSK	1	0	23.11	25.51	30	-4.49			
				1	49	22.98	25.38	30	-4.62			
				25	12	22.08	24.48	30	-5.52			
				50	0	22.07	24.47	30	-5.53			
				20350	1750	QPSK	1	0	23.05	25.45	30	-4.55
							1	49	22.87	25.27	30	-4.73
	25	12	22.05				24.45	30	-5.55			
	50	0	22.03				24.43	30	-5.57			
10	20000	1715	16QAM	1	0	22.22	24.62	30	-5.38			
				1	49	22.05	24.45	30	-5.55			
				25	12	19.70	22.10	30	-7.9			
				50	0	21.17	23.57	30	-6.43			
	20175	1732.5	16QAM	1	0	22.23	24.63	30	-5.37			
				1	49	22.14	24.54	30	-5.46			
				25	12	21.13	23.53	30	-6.47			
				50	0	20.53	22.93	30	-7.07			
				20350	1750	16QAM	1	0	22.55	24.95	30	-5.05
							1	49	22.15	24.55	30	-5.45
	25	12	20.54				22.94	30	-7.06			
	50	0	21.08				23.48	30	-6.52			
10	20000	1715	64QAM	1	0	21.24	23.64	30	-6.36			
				1	49	21.15	23.55	30	-6.45			
				25	12	20.22	22.62	30	-7.38			
				50	0	20.21	22.61	30	-7.39			
	20175	1732.5	64QAM	1	0	21.35	23.75	30	-6.25			
				1	49	21.20	23.60	30	-6.4			
				25	12	20.13	22.53	30	-7.47			
				50	0	20.09	22.49	30	-7.51			
				20350	1750	64QAM	1	0	21.17	23.57	30	-6.43
							1	49	21.00	23.40	30	-6.6
	25	12	20.10				22.50	30	-7.5			
	50	0	20.06				22.46	30	-7.54			

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Antenna gain (dBi)		2.4							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	23.33	25.73	30	-4.27
				1	74	22.96	25.36	30	-4.64
				36	18	22.21	24.61	30	-5.39
				75	0	22.22	24.62	30	-5.38
	20175	1732.5	QPSK	1	0	23.22	25.62	30	-4.38
				1	74	22.97	25.37	30	-4.63
				36	18	22.13	24.53	30	-5.47
				75	0	22.07	24.47	30	-5.53
	20325	1747.5	QPSK	1	0	23.20	25.60	30	-4.4
				1	74	22.93	25.33	30	-4.67
				36	18	22.09	24.49	30	-5.51
				75	0	22.05	24.45	30	-5.55
15	20025	1717.5	16QAM	1	0	22.75	25.15	30	-4.85
				1	74	22.50	24.90	30	-5.1
				36	18	21.25	23.65	30	-6.35
				75	0	21.26	23.66	30	-6.34
	20175	1732.5	16QAM	1	0	22.41	24.81	30	-5.19
				1	74	22.22	24.62	30	-5.38
				36	18	21.09	23.49	30	-6.51
				75	0	21.10	23.50	30	-6.5
	20325	1747.5	16QAM	1	0	22.56	24.96	30	-5.04
				1	74	22.38	24.78	30	-5.22
				36	18	21.08	23.48	30	-6.52
				75	0	21.07	23.47	30	-6.53
15	20025	1717.5	64QAM	1	0	21.21	23.61	30	-6.39
				1	74	20.85	23.25	30	-6.75
				36	18	20.29	22.69	30	-7.31
				75	0	20.23	22.63	30	-7.37
	20175	1732.5	64QAM	1	0	21.31	23.71	30	-6.29
				1	74	21.13	23.53	30	-6.47
				36	18	20.15	22.55	30	-7.45
				75	0	20.12	22.52	30	-7.48
	20325	1747.5	64QAM	1	0	21.37	23.77	30	-6.23
				1	74	21.20	23.60	30	-6.4
				36	18	19.56	21.96	30	-8.04
				75	0	20.04	22.44	30	-7.56

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Antenna gain (dBi)		2.4							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	23.40	25.80	30	-4.2
				1	99	22.52	24.92	30	-5.08
				50	25	22.22	24.62	30	-5.38
				100	0	22.22	24.62	30	-5.38
	20175	1732.5	QPSK	1	0	22.77	25.17	30	-4.83
				1	99	22.93	25.33	30	-4.67
				50	25	22.09	24.49	30	-5.51
				100	0	22.12	24.52	30	-5.48
	20300	1745	QPSK	1	0	23.21	25.61	30	-4.39
				1	99	22.88	25.28	30	-4.72
				50	25	22.07	24.47	30	-5.53
				100	0	22.10	24.50	30	-5.5
20	20050	1720	16QAM	1	0	22.69	25.09	30	-4.91
				1	99	22.06	24.46	30	-5.54
				50	25	21.21	23.61	30	-6.39
				100	0	21.26	23.66	30	-6.34
	20175	1732.5	16QAM	1	0	22.39	24.79	30	-5.21
				1	99	22.09	24.49	30	-5.51
				50	25	21.10	23.50	30	-6.5
				100	0	21.13	23.53	30	-6.47
	20300	1745	16QAM	1	0	20.78	23.18	30	-6.82
				1	99	21.93	24.33	30	-5.67
				50	25	21.07	23.47	30	-6.53
				100	0	21.11	23.51	30	-6.49
20	20050	1720	64QAM	1	0	21.53	23.93	30	-6.07
				1	99	21.10	23.50	30	-6.5
				50	25	20.20	22.60	30	-7.4
				100	0	20.23	22.63	30	-7.37
	20175	1732.5	64QAM	1	0	21.51	23.91	30	-6.09
				1	99	21.21	23.61	30	-6.39
				50	25	20.14	22.54	30	-7.46
				100	0	20.14	22.54	30	-7.46
	20300	1745	64QAM	1	0	19.94	22.34	30	-7.66
				1	99	19.61	22.01	30	-7.99
				50	25	20.14	22.54	30	-7.46
				100	0	20.14	22.54	30	-7.46

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Antenna gain (dBi)		-2.5								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	23.68	19.03	21.18	38.45	-19.42
				1	5	23.72	19.07	21.22	38.45	-19.38
				3	2	23.75	19.10	21.25	38.45	-19.35
				6	0	21.80	17.15	19.30	38.45	-21.30
	20525	836.5	QPSK	1	0	23.71	19.06	21.21	38.45	-19.39
				1	5	23.76	19.11	21.26	38.45	-19.34
				3	2	23.83	19.18	21.33	38.45	-19.27
				6	0	22.77	18.12	20.27	38.45	-20.33
	20643	848.3	QPSK	1	0	23.86	19.21	21.36	38.45	-19.24
				1	5	23.80	19.15	21.30	38.45	-19.30
				3	2	23.80	19.15	21.30	38.45	-19.30
				6	0	22.82	18.17	20.32	38.45	-20.28
1.4	20407	824.7	16QAM	1	0	22.97	18.32	20.47	38.45	-20.13
				1	5	23.06	18.41	20.56	38.45	-20.04
				3	2	22.83	18.18	20.33	38.45	-20.27
				6	0	21.87	17.22	19.37	38.45	-21.23
	20525	836.5	16QAM	1	0	23.08	18.43	20.58	38.45	-20.02
				1	5	22.20	17.55	19.70	38.45	-20.90
				3	2	22.72	18.07	20.22	38.45	-20.38
				6	0	21.79	17.14	19.29	38.45	-21.31
	20643	848.3	16QAM	1	0	22.92	18.27	20.42	38.45	-20.18
				1	5	23.36	18.71	20.86	38.45	-19.74
				3	2	22.86	18.21	20.36	38.45	-20.24
				6	0	21.88	17.23	19.38	38.45	-21.22
1.4	20407	824.7	64QAM	1	0	22.84	18.19	20.34	38.45	-20.26
				1	5	23.14	18.49	20.64	38.45	-19.96
				3	2	22.89	18.24	20.39	38.45	-20.21
				6	0	21.69	17.04	19.19	38.45	-21.41
	20525	836.5	64QAM	1	0	23.16	18.51	20.66	38.45	-19.94
				1	5	22.67	18.02	20.17	38.45	-20.43
				3	2	22.97	18.32	20.47	38.45	-20.13
				6	0	21.81	17.16	19.31	38.45	-21.29
	20643	848.3	64QAM	1	0	23.32	18.67	20.82	38.45	-19.78
				1	5	22.91	18.26	20.41	38.45	-20.19
				3	2	23.11	18.46	20.61	38.45	-19.99
				6	0	21.79	17.14	19.29	38.45	-21.31

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Antenna gain (dBi)		-2.5								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	23.78	19.13	21.28	38.45	-19.32
				1	14	23.73	19.08	21.23	38.45	-19.37
				8	4	22.83	18.18	20.33	38.45	-20.27
				15	0	22.79	18.14	20.29	38.45	-20.31
	20525	836.5	QPSK	1	0	23.87	19.22	21.37	38.45	-19.23
				1	14	23.89	19.24	21.39	38.45	-19.21
				8	4	22.89	18.24	20.39	38.45	-20.21
				15	0	22.83	18.18	20.33	38.45	-20.27
	20635	847.5	QPSK	1	0	23.87	19.22	21.37	38.45	-19.23
				1	14	23.89	19.24	21.39	38.45	-19.21
				8	4	22.98	18.33	20.48	38.45	-20.12
				15	0	22.89	18.24	20.39	38.45	-20.21
3	20415	825.5	16QAM	1	0	22.84	18.19	20.34	38.45	-20.26
				1	14	22.93	18.28	20.43	38.45	-20.17
				8	4	21.95	17.30	19.45	38.45	-21.15
				15	0	21.87	17.22	19.37	38.45	-21.23
	20525	836.5	16QAM	1	0	23.04	18.39	20.54	38.45	-20.06
				1	14	23.06	18.41	20.56	38.45	-20.04
				8	4	21.79	17.14	19.29	38.45	-21.31
				15	0	21.98	17.33	19.48	38.45	-21.12
	20635	847.5	16QAM	1	0	22.74	18.09	20.24	38.45	-20.36
				1	14	22.85	18.20	20.35	38.45	-20.25
				8	4	22.05	17.40	19.55	38.45	-21.05
				15	0	21.99	17.34	19.49	38.45	-21.11
3	20415	825.5	64QAM	1	0	22.96	18.31	20.46	38.45	-20.14
				1	14	22.89	18.24	20.39	38.45	-20.21
				8	4	21.96	17.31	19.46	38.45	-21.14
				15	0	21.83	17.18	19.33	38.45	-21.27
	20525	836.5	64QAM	1	0	22.99	18.34	20.49	38.45	-20.11
				1	14	23.08	18.43	20.58	38.45	-20.02
				8	4	21.87	17.22	19.37	38.45	-21.23
				15	0	21.83	17.18	19.33	38.45	-21.27
	20635	847.5	64QAM	1	0	23.15	18.50	20.65	38.45	-19.95
				1	14	23.03	18.38	20.53	38.45	-20.07
				8	4	21.91	17.26	19.41	38.45	-21.19
				15	0	21.90	17.25	19.40	38.45	-21.20

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Antenna gain (dBi)		-2.5								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	23.80	19.15	21.30	38.45	-19.30
				1	24	23.88	19.23	21.38	38.45	-19.22
				12	6	22.83	18.18	20.33	38.45	-20.27
				25	0	22.80	18.15	20.30	38.45	-20.30
	20525	836.5	QPSK	1	0	23.91	19.26	21.41	38.45	-19.19
				1	24	23.86	19.21	21.36	38.45	-19.24
				12	6	22.87	18.22	20.37	38.45	-20.23
				25	0	22.87	18.22	20.37	38.45	-20.23
	20625	846.5	QPSK	1	0	23.92	19.27	21.42	38.45	-19.18
				1	24	23.89	19.24	21.39	38.45	-19.21
				12	6	23.03	18.38	20.53	38.45	-20.07
				25	0	22.97	18.32	20.47	38.45	-20.13
5	20425	826.5	16QAM	1	0	22.65	18.00	20.15	38.45	-20.45
				1	24	23.13	18.48	20.63	38.45	-19.97
				12	6	21.81	17.16	19.31	38.45	-21.29
				25	0	21.82	17.17	19.32	38.45	-21.28
	20525	836.5	16QAM	1	0	22.93	18.28	20.43	38.45	-20.17
				1	24	23.00	18.35	20.50	38.45	-20.10
				12	6	21.86	17.21	19.36	38.45	-21.24
				25	0	21.85	17.20	19.35	38.45	-21.25
	20625	846.5	16QAM	1	0	23.23	18.58	20.73	38.45	-19.87
				1	24	22.94	18.29	20.44	38.45	-20.16
				12	6	22.03	17.38	19.53	38.45	-21.07
				25	0	21.98	17.33	19.48	38.45	-21.12
5	20425	826.5	64QAM	1	0	22.89	18.24	20.39	38.45	-20.21
				1	24	22.80	18.15	20.30	38.45	-20.30
				12	6	21.75	17.10	19.25	38.45	-21.35
				25	0	21.60	16.95	19.10	38.45	-21.50
	20525	836.5	64QAM	1	0	23.07	18.42	20.57	38.45	-20.03
				1	24	23.14	18.49	20.64	38.45	-19.96
				12	6	21.91	17.26	19.41	38.45	-21.19
				25	0	21.85	17.20	19.35	38.45	-21.25
	20625	846.5	64QAM	1	0	23.10	18.45	20.60	38.45	-20.00
				1	24	23.13	18.48	20.63	38.45	-19.97
				12	6	22.00	17.35	19.50	38.45	-21.10
				25	0	22.00	17.35	19.50	38.45	-21.10

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Antenna gain (dBi)		-2.5								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	23.86	19.21	21.36	38.45	-19.24
				1	49	23.81	19.16	21.31	38.45	-19.29
				25	12	22.89	18.24	20.39	38.45	-20.21
				50	0	22.85	18.20	20.35	38.45	-20.25
	20525	836.5	QPSK	1	0	23.86	19.21	21.36	38.45	-19.24
				1	49	23.81	19.16	21.31	38.45	-19.29
				25	12	22.91	18.26	20.41	38.45	-20.19
				50	0	22.87	18.22	20.37	38.45	-20.23
	20600	844	QPSK	1	0	23.95	19.30	21.45	38.45	-19.15
				1	49	23.85	19.20	21.35	38.45	-19.25
				25	12	22.97	18.32	20.47	38.45	-20.13
				50	0	22.95	18.30	20.45	38.45	-20.15
10	20450	829	16QAM	1	0	23.24	18.59	20.74	38.45	-19.86
				1	49	23.33	18.68	20.83	38.45	-19.77
				25	12	21.95	17.30	19.45	38.45	-21.15
				50	0	21.97	17.32	19.47	38.45	-21.13
	20525	836.5	16QAM	1	0	22.99	18.34	20.49	38.45	-20.11
				1	49	22.68	18.03	20.18	38.45	-20.42
				25	12	21.92	17.27	19.42	38.45	-21.18
				50	0	21.93	17.28	19.43	38.45	-21.17
	20600	844	16QAM	1	0	23.12	18.47	20.62	38.45	-19.98
				1	49	23.03	18.38	20.53	38.45	-20.07
				25	12	21.96	17.31	19.46	38.45	-21.14
				50	0	21.99	17.34	19.49	38.45	-21.11
10	20450	829	64QAM	1	0	23.13	18.48	20.63	38.45	-19.97
				1	49	23.23	18.58	20.73	38.45	-19.87
				25	12	21.98	17.33	19.48	38.45	-21.12
				50	0	21.91	17.26	19.41	38.45	-21.19
	20525	836.5	64QAM	1	0	22.96	18.31	20.46	38.45	-20.14
				1	49	23.37	18.72	20.87	38.45	-19.73
				25	12	21.91	17.26	19.41	38.45	-21.19
				50	0	21.87	17.22	19.37	38.45	-21.23
	20600	844	64QAM	1	0	23.18	18.53	20.68	38.45	-19.92
				1	49	23.01	18.36	20.51	38.45	-20.09
				25	12	21.97	17.32	19.47	38.45	-21.13
				50	0	21.95	17.30	19.45	38.45	-21.15

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Antenna gain (dBi)		1.3							
LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20775	2502.5	QPSK	1	0	21.34	22.64	33	-10.36
				1	24	21.37	22.67	33	-10.33
				12	6	20.41	21.71	33	-11.29
				25	0	20.36	21.66	33	-11.34
	21100	2535	QPSK	1	0	21.32	22.62	33	-10.38
				1	24	21.22	22.52	33	-10.48
				12	6	20.29	21.59	33	-11.41
				25	0	20.29	21.59	33	-11.41
	21425	2567.5	QPSK	1	0	21.38	22.68	33	-10.32
				1	24	21.31	22.61	33	-10.39
				12	6	20.39	21.69	33	-11.31
				25	0	20.37	21.67	33	-11.33
5	20775	2502.5	16QAM	1	0	20.78	22.08	33	-10.92
				1	24	20.87	22.17	33	-10.83
				12	6	19.33	20.63	33	-12.37
				25	0	19.35	20.65	33	-12.35
	21100	2535	16QAM	1	0	20.53	21.83	33	-11.17
				1	24	20.46	21.76	33	-11.24
				12	6	19.34	20.64	33	-12.36
				25	0	19.33	20.63	33	-12.37
	21425	2567.5	16QAM	1	0	20.62	21.92	33	-11.08
				1	24	20.66	21.96	33	-11.04
				12	6	19.41	20.71	33	-12.29
				25	0	19.35	20.65	33	-12.35
5	20775	2502.5	64QAM	1	0	19.36	20.66	33	-12.34
				1	24	19.31	20.61	33	-12.39
				12	6	18.46	19.76	33	-13.24
				25	0	18.40	19.70	33	-13.3
	21100	2535	64QAM	1	0	19.37	20.67	33	-12.33
				1	24	19.18	20.48	33	-12.52
				12	6	18.36	19.66	33	-13.34
				25	0	18.22	19.52	33	-13.48
	21425	2567.5	64QAM	1	0	19.52	20.82	33	-12.18
				1	24	19.52	20.82	33	-12.18
				12	6	18.40	19.70	33	-13.3
				25	0	18.34	19.64	33	-13.36

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Antenna gain (dBi)		1.3							
LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20800	2505	QPSK	1	0	21.36	22.66	33	-10.34
				1	49	21.37	22.67	33	-10.33
				25	12	20.44	21.74	33	-11.26
				50	0	20.37	21.67	33	-11.33
	21100	2535	QPSK	1	0	21.38	22.68	33	-10.32
				1	49	21.22	22.52	33	-10.48
				25	12	20.31	21.61	33	-11.39
				50	0	20.31	21.61	33	-11.39
	21400	2565	QPSK	1	0	21.40	22.70	33	-10.3
				1	49	21.31	22.61	33	-10.39
				25	12	20.44	21.74	33	-11.26
				50	0	20.42	21.72	33	-11.28
10	20800	2505	16QAM	1	0	20.57	21.87	33	-11.13
				1	49	20.62	21.92	33	-11.08
				25	12	19.27	20.57	33	-12.43
				50	0	19.34	20.64	33	-12.36
	21100	2535	16QAM	1	0	20.60	21.90	33	-11.1
				1	49	20.52	21.82	33	-11.18
				25	12	19.30	20.60	33	-12.4
				50	0	19.29	20.59	33	-12.41
	21400	2565	16QAM	1	0	20.99	22.29	33	-10.71
				1	49	20.81	22.11	33	-10.89
				25	12	19.34	20.64	33	-12.36
				50	0	19.40	20.70	33	-12.3
10	20800	2505	64QAM	1	0	19.48	20.78	33	-12.22
				1	49	19.74	21.04	33	-11.96
				25	12	18.41	19.71	33	-13.29
				50	0	18.43	19.73	33	-13.27
	21100	2535	64QAM	1	0	19.62	20.92	33	-12.08
				1	49	19.46	20.76	33	-12.24
				25	12	18.31	19.61	33	-13.39
				50	0	18.29	19.59	33	-13.41
	21400	2565	64QAM	1	0	19.76	21.06	33	-11.94
				1	49	19.37	20.67	33	-12.33
				25	12	18.48	19.78	33	-13.22
				50	0	18.41	19.71	33	-13.29

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Antenna gain (dBi)		1.3							
LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20825	2507.5	QPSK	1	0	21.52	22.82	33	-10.18
				1	74	21.34	22.64	33	-10.36
				36	18	20.43	21.73	33	-11.27
				75	0	20.41	21.71	33	-11.29
	21100	2535	QPSK	1	0	21.50	22.80	33	-10.2
				1	74	21.27	22.57	33	-10.43
				36	18	20.35	21.65	33	-11.35
				75	0	20.33	21.63	33	-11.37
	21375	2562.5	QPSK	1	0	21.40	22.70	33	-10.3
				1	74	21.24	22.54	33	-10.46
				36	18	20.47	21.77	33	-11.23
				75	0	20.41	21.71	33	-11.29
15	20825	2507.5	16QAM	1	0	20.73	22.03	33	-10.97
				1	74	20.55	21.85	33	-11.15
				36	18	19.52	20.82	33	-12.18
				75	0	19.45	20.75	33	-12.25
	21100	2535	16QAM	1	0	20.60	21.90	33	-11.1
				1	74	20.40	21.70	33	-11.3
				36	18	19.34	20.64	33	-12.36
				75	0	19.31	20.61	33	-12.39
	21375	2562.5	16QAM	1	0	20.52	21.82	33	-11.18
				1	74	20.44	21.74	33	-11.26
				36	18	19.47	20.77	33	-12.23
				75	0	19.45	20.75	33	-12.25
15	20825	2507.5	64QAM	1	0	19.89	21.19	33	-11.81
				1	74	19.59	20.89	33	-12.11
				36	18	18.42	19.72	33	-13.28
				75	0	18.38	19.68	33	-13.32
	21100	2535	64QAM	1	0	19.79	21.09	33	-11.91
				1	74	19.60	20.90	33	-12.1
				36	18	18.36	19.66	33	-13.34
				75	0	18.32	19.62	33	-13.38
	21375	2562.5	64QAM	1	0	19.73	21.03	33	-11.97
				1	74	19.54	20.84	33	-12.16
				36	18	18.27	19.57	33	-13.43
				75	0	18.27	19.57	33	-13.43

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Antenna gain (dBi)		1.3							
LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20850	2510	QPSK	1	0	21.56	22.86	33	-10.14
				1	99	21.28	22.58	33	-10.42
				50	25	20.39	21.69	33	-11.31
				100	0	20.41	21.71	33	-11.29
	21100	2535	QPSK	1	0	21.41	22.71	33	-10.29
				1	99	21.29	22.59	33	-10.41
				50	25	20.40	21.70	33	-11.3
				100	0	20.29	21.59	33	-11.41
	21350	2560	QPSK	1	0	21.33	22.63	33	-10.37
				1	99	21.31	22.61	33	-10.39
				50	25	20.48	21.78	33	-11.22
				100	0	20.45	21.75	33	-11.25
20	20850	2510	QPSK	1	0	20.84	22.14	33	-10.86
				1	99	20.57	21.87	33	-11.13
				50	25	19.40	20.70	33	-12.3
				100	0	19.35	20.65	33	-12.35
	21100	2535	QPSK	1	0	20.87	22.17	33	-10.83
				1	99	20.67	21.97	33	-11.03
				50	25	19.28	20.58	33	-12.42
				100	0	19.34	20.64	33	-12.36
	21350	2560	QPSK	1	0	21.04	22.34	33	-10.66
				1	99	20.82	22.12	33	-10.88
				50	25	19.48	20.78	33	-12.22
				100	0	19.43	20.73	33	-12.27
20	20850	2510	QPSK	1	0	19.81	21.11	33	-11.89
				1	99	19.60	20.90	33	-12.1
				50	25	18.40	19.70	33	-13.3
				100	0	18.36	19.66	33	-13.34
	21100	2535	QPSK	1	0	19.85	21.15	33	-11.85
				1	99	19.49	20.79	33	-12.21
				50	25	18.32	19.62	33	-13.38
				100	0	18.34	19.64	33	-13.36
	21350	2560	QPSK	1	0	19.67	20.97	33	-12.03
				1	99	19.51	20.81	33	-12.19
				50	25	18.51	19.81	33	-13.19
				100	0	18.49	19.79	33	-13.21

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Antenna gain (dBi)		-2								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	23.73	19.58	21.73	34.77	-15.19
				1	5	23.71	19.56	21.71	34.77	-15.21
				3	2	23.73	19.58	21.73	34.77	-15.19
				6	0	22.72	18.57	20.72	34.77	-16.20
	23095	707.5	QPSK	1	0	23.62	19.47	21.62	34.77	-15.30
				1	5	23.67	19.52	21.67	34.77	-15.25
				3	2	23.72	19.57	21.72	34.77	-15.20
				6	0	22.78	18.63	20.78	34.77	-16.14
	23173	715.5	QPSK	1	0	23.73	19.58	21.73	34.77	-15.19
				1	5	23.69	19.54	21.69	34.77	-15.23
				3	2	23.79	19.64	21.79	34.77	-15.13
				6	0	22.80	18.65	20.80	34.77	-16.12
1.4	23017	699.7	16QAM	1	0	22.77	18.62	20.77	34.77	-16.15
				1	5	22.91	18.76	20.91	34.77	-16.01
				3	2	22.77	18.62	20.77	34.77	-16.15
				6	0	21.83	17.68	19.83	34.77	-17.09
	23095	707.5	16QAM	1	0	22.81	18.66	20.81	34.77	-16.11
				1	5	22.81	18.66	20.81	34.77	-16.11
				3	2	22.75	18.60	20.75	34.77	-16.17
				6	0	21.87	17.72	19.87	34.77	-17.05
	23173	715.5	16QAM	1	0	23.06	18.91	21.06	34.77	-15.86
				1	5	22.81	18.66	20.81	34.77	-16.11
				3	2	22.68	18.53	20.68	34.77	-16.24
				6	0	21.95	17.80	19.95	34.77	-16.97
1.4	23017	699.7	64QAM	1	0	21.73	17.58	19.73	34.77	-17.19
				1	5	21.71	17.56	19.71	34.77	-17.21
				3	2	21.89	17.74	19.89	34.77	-17.03
				6	0	20.74	16.59	18.74	34.77	-18.18
	23095	707.5	64QAM	1	0	21.68	17.53	19.68	34.77	-17.24
				1	5	21.76	17.61	19.76	34.77	-17.16
				3	2	21.88	17.73	19.88	34.77	-17.04
				6	0	20.76	16.61	18.76	34.77	-18.16
	23173	715.5	64QAM	1	0	21.50	17.35	19.50	34.77	-17.42
				1	5	21.86	17.71	19.86	34.77	-17.06
				3	2	21.96	17.81	19.96	34.77	-16.96
				6	0	20.84	16.69	18.84	34.77	-18.08

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Antenna gain (dBi)		-2								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	23.79	19.64	21.79	34.77	-15.13
				1	14	23.71	19.56	21.71	34.77	-15.21
				8	4	22.80	18.65	20.80	34.77	-16.12
				15	0	22.79	18.64	20.79	34.77	-16.13
	23095	707.5	QPSK	1	0	23.77	19.62	21.77	34.77	-15.15
				1	14	23.62	19.47	21.62	34.77	-15.30
				8	4	22.85	18.70	20.85	34.77	-16.07
				15	0	22.85	18.70	20.85	34.77	-16.07
	23165	714.5	QPSK	1	0	23.78	19.63	21.78	34.77	-15.14
				1	14	23.66	19.51	21.66	34.77	-15.26
				8	4	22.91	18.76	20.91	34.77	-16.01
				15	0	22.90	18.75	20.90	34.77	-16.02
3	23025	700.5	16QAM	1	0	22.89	18.74	20.89	34.77	-16.03
				1	14	22.74	18.59	20.74	34.77	-16.18
				8	4	21.85	17.70	19.85	34.77	-17.07
				15	0	21.83	17.68	19.83	34.77	-17.09
	23095	707.5	16QAM	1	0	22.96	18.81	20.96	34.77	-15.96
				1	14	22.90	18.75	20.90	34.77	-16.02
				8	4	21.92	17.77	19.92	34.77	-17.00
				15	0	21.84	17.69	19.84	34.77	-17.08
	23165	714.5	16QAM	1	0	22.92	18.77	20.92	34.77	-16.00
				1	14	22.83	18.68	20.83	34.77	-16.09
				8	4	21.99	17.84	19.99	34.77	-16.93
				15	0	21.92	17.77	19.92	34.77	-17.00
3	23025	700.5	64QAM	1	0	21.88	17.73	19.88	34.77	-17.04
				1	14	21.79	17.64	19.79	34.77	-17.13
				8	4	20.81	16.66	18.81	34.77	-18.11
				15	0	20.76	16.61	18.76	34.77	-18.16
	23095	707.5	64QAM	1	0	21.45	17.30	19.45	34.77	-17.47
				1	14	21.62	17.47	19.62	34.77	-17.30
				8	4	20.89	16.74	18.89	34.77	-18.03
				15	0	20.89	16.74	18.89	34.77	-18.03
	23165	714.5	64QAM	1	0	21.95	17.80	19.95	34.77	-16.97
				1	14	21.84	17.69	19.84	34.77	-17.08
				8	4	20.96	16.81	18.96	34.77	-17.96
				15	0	20.85	16.70	18.85	34.77	-18.07

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Antenna gain (dBi)		-2								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	23.80	19.65	21.80	34.77	-15.12
				1	24	23.82	19.67	21.82	34.77	-15.10
				12	6	22.83	18.68	20.83	34.77	-16.09
				25	0	22.72	18.57	20.72	34.77	-16.20
	23095	707.5	QPSK	1	0	23.80	19.65	21.80	34.77	-15.12
				1	24	23.73	19.58	21.73	34.77	-15.19
				12	6	22.87	18.72	20.87	34.77	-16.05
				25	0	22.87	18.72	20.87	34.77	-16.05
	23155	713.5	QPSK	1	0	23.86	19.71	21.86	34.77	-15.06
				1	24	23.84	19.69	21.84	34.77	-15.08
				12	6	22.90	18.75	20.90	34.77	-16.02
				25	0	22.86	18.71	20.86	34.77	-16.06
5	23035	701.5	16QAM	1	0	22.95	18.80	20.95	34.77	-15.97
				1	24	22.94	18.79	20.94	34.77	-15.98
				12	6	21.77	17.62	19.77	34.77	-17.15
				25	0	21.79	17.64	19.79	34.77	-17.13
	23095	707.5	16QAM	1	0	22.93	18.78	20.93	34.77	-15.99
				1	24	22.98	18.83	20.98	34.77	-15.94
				12	6	21.84	17.69	19.84	34.77	-17.08
				25	0	21.86	17.71	19.86	34.77	-17.06
	23155	713.5	16QAM	1	0	23.01	18.86	21.01	34.77	-15.91
				1	24	23.00	18.85	21.00	34.77	-15.92
				12	6	21.84	17.69	19.84	34.77	-17.08
				25	0	21.83	17.68	19.83	34.77	-17.09
5	23035	701.5	64QAM	1	0	21.91	17.76	19.91	34.77	-17.01
				1	24	21.65	17.50	19.65	34.77	-17.27
				12	6	20.85	16.70	18.85	34.77	-18.07
				25	0	20.78	16.63	18.78	34.77	-18.14
	23095	707.5	64QAM	1	0	22.00	17.85	20.00	34.77	-16.92
				1	24	21.70	17.55	19.70	34.77	-17.22
				12	6	20.95	16.80	18.95	34.77	-17.97
				25	0	20.89	16.74	18.89	34.77	-18.03
	23155	713.5	64QAM	1	0	22.05	17.90	20.05	34.77	-16.87
				1	24	21.83	17.68	19.83	34.77	-17.09
				12	6	20.94	16.79	18.94	34.77	-17.98
				25	0	20.91	16.76	18.91	34.77	-18.01

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Antenna gain (dBi)		-2								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	23.86	19.71	21.86	34.77	-15.06
				1	49	23.72	19.57	21.72	34.77	-15.20
				25	12	22.93	18.78	20.93	34.77	-15.99
				50	0	22.91	18.76	20.91	34.77	-16.01
	23095	707.5	QPSK	1	0	23.70	19.55	21.70	34.77	-15.22
				1	49	23.72	19.57	21.72	34.77	-15.20
				25	12	22.88	18.73	20.88	34.77	-16.04
				50	0	22.89	18.74	20.89	34.77	-16.03
	23130	711	QPSK	1	0	23.87	19.72	21.87	34.77	-15.05
				1	49	23.73	19.58	21.73	34.77	-15.19
				25	12	22.91	18.76	20.91	34.77	-16.01
				50	0	22.81	18.66	20.81	34.77	-16.11
10	23060	704	16QAM	1	0	23.07	18.92	21.07	34.77	-15.85
				1	49	22.94	18.79	20.94	34.77	-15.98
				25	12	21.96	17.81	19.96	34.77	-16.96
				50	0	21.88	17.73	19.88	34.77	-17.04
	23095	707.5	16QAM	1	0	22.95	18.80	20.95	34.77	-15.97
				1	49	22.79	18.64	20.79	34.77	-16.13
				25	12	21.91	17.76	19.91	34.77	-17.01
				50	0	21.90	17.75	19.90	34.77	-17.02
	23130	711	16QAM	1	0	22.97	18.82	20.97	34.77	-15.95
				1	49	22.93	18.78	20.93	34.77	-15.99
				25	12	21.91	17.76	19.91	34.77	-17.01
				50	0	21.87	17.72	19.87	34.77	-17.05
10	23060	704	64QAM	1	0	21.97	17.82	19.97	34.77	-16.95
				1	49	21.41	17.26	19.41	34.77	-17.51
				25	12	20.99	16.84	18.99	34.77	-17.93
				50	0	20.92	16.77	18.92	34.77	-18.00
	23095	707.5	64QAM	1	0	21.46	17.31	19.46	34.77	-17.46
				1	49	21.86	17.71	19.86	34.77	-17.06
				25	12	20.91	16.76	18.91	34.77	-18.01
				50	0	20.89	16.74	18.89	34.77	-18.03
	23130	711	64QAM	1	0	21.99	17.84	19.99	34.77	-16.93
				1	49	21.95	17.80	19.95	34.77	-16.97
				25	12	20.92	16.77	18.92	34.77	-18.00
				50	0	20.83	16.68	18.83	34.77	-18.09

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Antenna gain (dBi)		-1.9								
LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	23.91	19.86	22.01	34.77	-14.91
				1	24	23.75	19.70	21.85	34.77	-15.07
				12	6	22.86	18.81	20.96	34.77	-15.96
				25	0	22.84	18.79	20.94	34.77	-15.98
	23230	782	QPSK	1	0	23.90	19.85	22.00	34.77	-14.92
				1	24	23.81	19.76	21.91	34.77	-15.01
				12	6	22.93	18.88	21.03	34.77	-15.89
				25	0	22.94	18.89	21.04	34.77	-15.88
	23255	784.5	QPSK	1	0	23.85	19.80	21.95	34.77	-14.97
				1	24	23.87	19.82	21.97	34.77	-14.95
				12	6	23.00	18.95	21.10	34.77	-15.82
				25	0	22.98	18.93	21.08	34.77	-15.84
5	23205	779.5	16QAM	1	0	23.05	19.00	21.15	34.77	-15.77
				1	24	23.01	18.96	21.11	34.77	-15.81
				12	6	21.94	17.89	20.04	34.77	-16.88
				25	0	21.87	17.82	19.97	34.77	-16.95
	23230	782	16QAM	1	0	23.00	18.95	21.10	34.77	-15.82
				1	24	23.04	18.99	21.14	34.77	-15.78
				12	6	21.94	17.89	20.04	34.77	-16.88
				25	0	21.98	17.93	20.08	34.77	-16.84
	23255	784.5	16QAM	1	0	22.90	18.85	21.00	34.77	-15.92
				1	24	23.01	18.96	21.11	34.77	-15.81
				12	6	22.06	18.01	20.16	34.77	-16.76
				25	0	22.01	17.96	20.11	34.77	-16.81
5	23205	779.5	64QAM	1	0	22.04	17.99	20.14	34.77	-16.78
				1	24	21.99	17.94	20.09	34.77	-16.83
				12	6	20.90	16.85	19.00	34.77	-17.92
				25	0	20.89	16.84	18.99	34.77	-17.93
	23230	782	64QAM	1	0	22.11	18.06	20.21	34.77	-16.71
				1	24	21.99	17.94	20.09	34.77	-16.83
				12	6	21.03	16.98	19.13	34.77	-17.79
				25	0	20.96	16.91	19.06	34.77	-17.86
	23255	784.5	64QAM	1	0	21.58	17.53	19.68	34.77	-17.24
				1	24	22.01	17.96	20.11	34.77	-16.81
				12	6	21.06	17.01	19.16	34.77	-17.76
				25	0	20.97	16.92	19.07	34.77	-17.85

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Antenna gain (dBi)	-1.9									
LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	24.02	19.97	22.12	34.77	-14.80
				1	49	23.88	19.83	21.98	34.77	-14.94
				25	12	22.99	18.94	21.09	34.77	-15.83
				50	0	22.94	18.89	21.04	34.77	-15.88
10	23230	782	16QAM	1	0	23.13	19.08	21.23	34.77	-15.69
				1	49	22.9	18.85	21.00	34.77	-15.92
				25	12	22.03	17.98	20.13	34.77	-16.79
				50	0	21.99	17.94	20.09	34.77	-16.83
10	23230	782	64QAM	1	0	22.05	18.00	20.15	34.77	-16.77
				1	49	21.82	17.77	19.92	34.77	-17.00
				25	12	21.01	16.96	19.11	34.77	-17.81
				50	0	20.96	16.91	19.06	34.77	-17.86

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Antenna gain (dBi)		-1.9								
LTE Band 14_Uplink frequency band : 788 to 798 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)
5	23305	790.5	QPSK	1	0	23.53	19.48	21.63	34.77	-15.29
				1	24	23.87	19.82	21.97	34.77	-14.95
				12	6	22.93	18.88	21.03	34.77	-15.89
				25	0	22.75	18.70	20.85	34.77	-16.07
	23330	793	QPSK	1	0	23.66	19.61	21.76	34.77	-15.16
				1	24	23.80	19.75	21.90	34.77	-15.02
				12	6	22.92	18.87	21.02	34.77	-15.90
				25	0	22.91	18.86	21.01	34.77	-15.91
	23355	795.5	QPSK	1	0	23.87	19.82	21.97	34.77	-14.95
				1	24	23.85	19.80	21.95	34.77	-14.97
				12	6	22.97	18.92	21.07	34.77	-15.85
				25	0	23.00	18.95	21.10	34.77	-15.82
5	23305	790.5	16QAM	1	0	23.08	19.03	21.18	34.77	-15.74
				1	24	23.15	19.10	21.25	34.77	-15.67
				12	6	21.90	17.85	20.00	34.77	-16.92
				25	0	21.81	17.76	19.91	34.77	-17.01
	23330	793	16QAM	1	0	23.08	19.03	21.18	34.77	-15.74
				1	24	22.93	18.88	21.03	34.77	-15.89
				12	6	21.93	17.88	20.03	34.77	-16.89
				25	0	21.90	17.85	20.00	34.77	-16.92
	23355	795.5	16QAM	1	0	23.11	19.06	21.21	34.77	-15.71
				1	24	23.08	19.03	21.18	34.77	-15.74
				12	6	21.98	17.93	20.08	34.77	-16.84
				25	0	21.98	17.93	20.08	34.77	-16.84
5	23305	790.5	64QAM	1	0	21.92	17.87	20.02	34.77	-16.90
				1	24	22.01	17.96	20.11	34.77	-16.81
				12	6	20.97	16.92	19.07	34.77	-17.85
				25	0	20.84	16.79	18.94	34.77	-17.98
	23330	793	64QAM	1	0	22.08	18.03	20.18	34.77	-16.74
				1	24	21.94	17.89	20.04	34.77	-16.88
				12	6	20.99	16.94	19.09	34.77	-17.83
				25	0	20.96	16.91	19.06	34.77	-17.86
	23355	795.5	64QAM	1	0	22.03	17.98	20.13	34.77	-16.79
				1	24	22.01	17.96	20.11	34.77	-16.81
				12	6	21.05	17.00	19.15	34.77	-17.77
				25	0	20.98	16.93	19.08	34.77	-17.84

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Antenna gain (dBi)	-1.9									
LTE Band 14_Uplink frequency band : 788 to 798 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)
10	23330	793	QPSK	1	0	23.94	19.89	22.04	34.77	-14.88
				1	49	23.87	19.82	21.97	34.77	-14.95
				25	12	22.91	18.86	21.01	34.77	-15.91
				50	0	22.95	18.90	21.05	34.77	-15.87
10	23330	793	16QAM	1	0	23.03	18.98	21.13	34.77	-15.79
				1	49	23	18.95	21.10	34.77	-15.82
				25	12	21.97	17.92	20.07	34.77	-16.85
				50	0	21.92	17.87	20.02	34.77	-16.90
10	23330	793	64QAM	1	0	21.85	17.80	19.95	34.77	-16.97
				1	49	21.86	17.81	19.96	34.77	-16.96
				25	12	21.02	16.97	19.12	34.77	-17.80
				50	0	20.97	16.92	19.07	34.77	-17.85

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Antenna gain (dBi)		0.7							
LTE Band 25_Uplink frequency band : 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)
1.4	26047	1850.7	QPSK	1	0	23.66	24.36	33	-8.64
				1	5	23.76	24.46	33	-8.54
				3	2	23.80	24.50	33	-8.5
				6	0	22.73	23.43	33	-9.57
	26365	1882.5	QPSK	1	0	23.86	24.56	33	-8.44
				1	5	23.94	24.64	33	-8.36
				3	2	24.02	24.72	33	-8.28
				6	0	22.90	23.60	33	-9.4
	26683	1914.3	QPSK	1	0	24.12	24.82	33	-8.18
				1	5	24.04	24.74	33	-8.26
				3	2	24.03	24.73	33	-8.27
				6	0	23.04	23.74	33	-9.26
1.4	26047	1850.7	16QAM	1	0	22.86	23.56	33	-9.44
				1	5	22.95	23.65	33	-9.35
				3	2	22.79	23.49	33	-9.51
				6	0	21.86	22.56	33	-10.44
	26365	1882.5	16QAM	1	0	23.00	23.70	33	-9.3
				1	5	23.23	23.93	33	-9.07
				3	2	22.99	23.69	33	-9.31
				6	0	22.02	22.72	33	-10.28
	26683	1914.3	16QAM	1	0	23.10	23.80	33	-9.2
				1	5	23.04	23.74	33	-9.26
				3	2	23.08	23.78	33	-9.22
				6	0	22.14	22.84	33	-10.16
1.4	26047	1850.7	64QAM	1	0	21.86	22.56	33	-10.44
				1	5	21.40	22.10	33	-10.9
				3	2	21.93	22.63	33	-10.37
				6	0	20.60	21.30	33	-11.7
	26365	1882.5	64QAM	1	0	21.97	22.67	33	-10.33
				1	5	22.10	22.80	33	-10.2
				3	2	22.16	22.86	33	-10.14
				6	0	20.98	21.68	33	-11.32
	26683	1914.3	64QAM	1	0	21.97	22.67	33	-10.33
				1	5	22.31	23.01	33	-9.99
				3	2	21.90	22.60	33	-10.4
				6	0	21.05	21.75	33	-11.25

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Antenna gain (dBi)		0.7							
LTE Band 25_Uplink frequency band : 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)
3	26055	1851.5	QPSK	1	0	23.63	24.33	33	-8.67
				1	14	23.69	24.39	33	-8.61
				8	4	22.79	23.49	33	-9.51
				15	0	22.76	23.46	33	-9.54
	26365	1882.5	QPSK	1	0	23.68	24.38	33	-8.62
				1	14	23.76	24.46	33	-8.54
				8	4	22.78	23.48	33	-9.52
				15	0	22.79	23.49	33	-9.51
	26675	1913.5	QPSK	1	0	24.09	24.79	33	-8.21
				1	14	23.95	24.65	33	-8.35
				8	4	23.09	23.79	33	-9.21
				15	0	23.04	23.74	33	-9.26
3	26055	1851.5	16QAM	1	0	22.94	23.64	33	-9.36
				1	14	22.96	23.66	33	-9.34
				8	4	21.85	22.55	33	-10.45
				15	0	21.82	22.52	33	-10.48
	26365	1882.5	16QAM	1	0	22.92	23.62	33	-9.38
				1	14	22.87	23.57	33	-9.43
				8	4	21.79	22.49	33	-10.51
				15	0	21.81	22.51	33	-10.49
	26675	1913.5	16QAM	1	0	23.25	23.95	33	-9.05
				1	14	23.31	24.01	33	-8.99
				8	4	22.16	22.86	33	-10.14
				15	0	22.10	22.80	33	-10.2
3	26055	1851.5	64QAM	1	0	22.03	22.73	33	-10.27
				1	14	21.94	22.64	33	-10.36
				8	4	20.85	21.55	33	-11.45
				15	0	20.79	21.49	33	-11.51
	26365	1882.5	64QAM	1	0	21.71	22.41	33	-10.59
				1	14	21.89	22.59	33	-10.41
				8	4	20.79	21.49	33	-11.51
				15	0	20.75	21.45	33	-11.55
	26675	1913.5	64QAM	1	0	22.20	22.90	33	-10.1
				1	14	22.11	22.81	33	-10.19
				8	4	21.15	21.85	33	-11.15
				15	0	21.14	21.84	33	-11.16

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Antenna gain (dBi)		0.7							
LTE Band 25_Uplink frequency band : 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)
5	26065	1852.5	QPSK	1	0	23.81	24.51	33	-8.49
				1	24	23.73	24.43	33	-8.57
				12	6	22.78	23.48	33	-9.52
				25	0	22.76	23.46	33	-9.54
	26365	1882.5	QPSK	1	0	23.75	24.45	33	-8.55
				1	24	23.74	24.44	33	-8.56
				12	6	22.67	23.37	33	-9.63
				25	0	22.76	23.46	33	-9.54
	26665	1912.5	QPSK	1	0	24.15	24.85	33	-8.15
				1	24	24.22	24.92	33	-8.08
				12	6	23.16	23.86	33	-9.14
				25	0	23.10	23.80	33	-9.2
5	26065	1852.5	16QAM	1	0	22.98	23.68	33	-9.32
				1	24	22.80	23.50	33	-9.5
				12	6	21.77	22.47	33	-10.53
				25	0	21.82	22.52	33	-10.48
	26365	1882.5	16QAM	1	0	22.84	23.54	33	-9.46
				1	24	22.79	23.49	33	-9.51
				12	6	21.67	22.37	33	-10.63
				25	0	21.76	22.46	33	-10.54
	26665	1912.5	16QAM	1	0	23.13	23.83	33	-9.17
				1	24	22.68	23.38	33	-9.62
				12	6	22.12	22.82	33	-10.18
				25	0	22.12	22.82	33	-10.18
5	26065	1852.5	64QAM	1	0	21.85	22.55	33	-10.45
				1	24	21.46	22.16	33	-10.84
				12	6	20.83	21.53	33	-11.47
				25	0	20.82	21.52	33	-11.48
	26365	1882.5	64QAM	1	0	21.75	22.45	33	-10.55
				1	24	21.85	22.55	33	-10.45
				12	6	20.78	21.48	33	-11.52
				25	0	20.79	21.49	33	-11.51
	26665	1912.5	64QAM	1	0	22.21	22.91	33	-10.09
				1	24	22.17	22.87	33	-10.13
				12	6	21.14	21.84	33	-11.16
				25	0	21.11	21.81	33	-11.19

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Antenna gain (dBi)		0.7							
LTE Band 25_Uplink frequency band : 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)
10	26090	1855	QPSK	1	0	24.17	24.87	33	-8.13
				1	49	23.86	24.56	33	-8.44
				25	12	22.79	23.49	33	-9.51
				50	0	22.82	23.52	33	-9.48
	26365	1882.5	QPSK	1	0	23.90	24.60	33	-8.4
				1	49	23.85	24.55	33	-8.45
				25	12	22.70	23.40	33	-9.6
				50	0	22.75	23.45	33	-9.55
	26640	1910	QPSK	1	0	24.01	24.71	33	-8.29
				1	49	23.99	24.69	33	-8.31
				25	12	23.13	23.83	33	-9.17
				50	0	23.16	23.86	33	-9.14
10	26090	1855	16QAM	1	0	23.34	24.04	33	-8.96
				1	49	22.96	23.66	33	-9.34
				25	12	21.85	22.55	33	-10.45
				50	0	21.83	22.53	33	-10.47
	26365	1882.5	16QAM	1	0	23.03	23.73	33	-9.27
				1	49	23.26	23.96	33	-9.04
				25	12	21.72	22.42	33	-10.58
				50	0	21.86	22.56	33	-10.44
	26640	1910	16QAM	1	0	23.14	23.84	33	-9.16
				1	49	23.19	23.89	33	-9.11
				25	12	22.20	22.90	33	-10.1
				50	0	22.16	22.86	33	-10.14
10	26090	1855	64QAM	1	0	22.21	22.91	33	-10.09
				1	49	22.06	22.76	33	-10.24
				25	12	20.89	21.59	33	-11.41
				50	0	20.83	21.53	33	-11.47
	26365	1882.5	64QAM	1	0	22.17	22.87	33	-10.13
				1	49	22.08	22.78	33	-10.22
				25	12	20.72	21.42	33	-11.58
				50	0	20.90	21.60	33	-11.4
	26640	1910	64QAM	1	0	22.22	22.92	33	-10.08
				1	49	22.19	22.89	33	-10.11
				25	12	21.14	21.84	33	-11.16
				50	0	21.16	21.86	33	-11.14

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Antenna gain (dBi)		0.7							
LTE Band 25_Uplink frequency band : 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)
15	26115	1857.5	QPSK	1	0	23.87	24.57	33	-8.43
				1	74	23.56	24.26	33	-8.74
				36	18	22.80	23.50	33	-9.5
				75	0	22.83	23.53	33	-9.47
	26365	1882.5	QPSK	1	0	23.76	24.46	33	-8.54
				1	74	23.71	24.41	33	-8.59
				36	18	22.69	23.39	33	-9.61
				75	0	22.80	23.50	33	-9.5
	26615	1907.5	QPSK	1	0	24.20	24.90	33	-8.1
				1	74	24.17	24.87	33	-8.13
				36	18	23.07	23.77	33	-9.23
				75	0	23.06	23.76	33	-9.24
15	26115	1857.5	16QAM	1	0	23.07	23.77	33	-9.23
				1	74	22.96	23.66	33	-9.34
				36	18	21.78	22.48	33	-10.52
				75	0	21.81	22.51	33	-10.49
	26365	1882.5	16QAM	1	0	22.93	23.63	33	-9.37
				1	74	22.82	23.52	33	-9.48
				36	18	21.69	22.39	33	-10.61
				75	0	21.80	22.50	33	-10.5
	26615	1907.5	16QAM	1	0	23.27	23.97	33	-9.03
				1	74	23.13	23.83	33	-9.17
				36	18	22.09	22.79	33	-10.21
				75	0	22.06	22.76	33	-10.24
15	26115	1857.5	64QAM	1	0	22.16	22.86	33	-10.14
				1	74	21.76	22.46	33	-10.54
				36	18	20.84	21.54	33	-11.46
				75	0	20.80	21.50	33	-11.5
	26365	1882.5	64QAM	1	0	21.81	22.51	33	-10.49
				1	74	21.81	22.51	33	-10.49
				36	18	20.76	21.46	33	-11.54
				75	0	20.77	21.47	33	-11.53
	26615	1907.5	64QAM	1	0	22.32	23.02	33	-9.98
				1	74	22.20	22.90	33	-10.1
				36	18	21.14	21.84	33	-11.16
				75	0	21.04	21.74	33	-11.26

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Antenna gain (dBi)		0.7							
LTE Band 25_Uplink frequency band : 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)
20	26140	1860	QPSK	1	0	24.14	24.84	33	-8.16
				1	99	23.94	24.64	33	-8.36
				50	25	22.82	23.52	33	-9.48
				100	0	22.83	23.53	33	-9.47
	26365	1882.5	QPSK	1	0	24.08	24.78	33	-8.22
				1	99	23.85	24.55	33	-8.45
				50	25	22.85	23.55	33	-9.45
				100	0	22.85	23.55	33	-9.45
	26590	1905	QPSK	1	0	24.27	24.97	33	-8.03
				1	99	24.07	24.77	33	-8.23
				50	25	23.11	23.81	33	-9.19
				100	0	23.10	23.80	33	-9.2
20	26140	1860	16QAM	1	0	23.27	23.97	33	-9.03
				1	99	23.05	23.75	33	-9.25
				50	25	21.85	22.55	33	-10.45
				100	0	21.87	22.57	33	-10.43
	26365	1882.5	16QAM	1	0	23.24	23.94	33	-9.06
				1	99	22.94	23.64	33	-9.36
				50	25	21.85	22.55	33	-10.45
				100	0	21.85	22.55	33	-10.45
	26590	1905	16QAM	1	0	23.44	24.14	33	-8.86
				1	99	23.36	24.06	33	-8.94
				50	25	22.16	22.86	33	-10.14
				100	0	22.10	22.80	33	-10.2
20	26140	1860	64QAM	1	0	22.17	22.87	33	-10.13
				1	99	21.56	22.26	33	-10.74
				50	25	20.84	21.54	33	-11.46
				100	0	20.83	21.53	33	-11.47
	26365	1882.5	64QAM	1	0	22.17	22.87	33	-10.13
				1	99	21.99	22.69	33	-10.31
				50	25	20.82	21.52	33	-11.48
				100	0	20.85	21.55	33	-11.45
	26590	1905	64QAM	1	0	22.14	22.84	33	-10.16
				1	99	21.87	22.57	33	-10.43
				50	25	21.15	21.85	33	-11.15
				100	0	21.11	21.81	33	-11.19

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Antenna gain (dBi)		-2.5								
Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 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)
1.4	26697	814.7	QPSK	1	0	23.68	19.03	21.18	50	-30.97
				1	5	23.78	19.13	21.28	50	-30.87
				3	2	23.74	19.09	21.24	50	-30.91
				6	0	22.73	18.08	20.23	50	-31.92
	26740	819	QPSK	1	0	23.60	18.95	21.10	50	-31.05
				1	5	23.74	19.09	21.24	50	-30.91
				3	2	23.74	19.09	21.24	50	-30.91
				6	0	22.73	18.08	20.23	50	-31.92
	26783	823.3	QPSK	1	0	23.67	19.02	21.17	50	-30.98
				1	5	23.69	19.04	21.19	50	-30.96
				3	2	23.84	19.19	21.34	50	-30.81
				6	0	22.80	18.15	20.30	50	-31.85
1.4	26697	814.7	16QAM	1	0	22.85	18.20	20.35	50	-31.80
				1	5	22.74	18.09	20.24	50	-31.91
				3	2	22.70	18.05	20.20	50	-31.95
				6	0	21.73	17.08	19.23	50	-32.92
	26740	819	16QAM	1	0	23.02	18.37	20.52	50	-31.63
				1	5	22.97	18.32	20.47	50	-31.68
				3	2	22.68	18.03	20.18	50	-31.97
				6	0	21.81	17.16	19.31	50	-32.84
	26783	823.3	16QAM	1	0	22.82	18.17	20.32	50	-31.83
				1	5	23.00	18.35	20.50	50	-31.65
				3	2	22.75	18.10	20.25	50	-31.90
				6	0	21.84	17.19	19.34	50	-32.81
1.4	26697	814.7	64QAM	1	0	21.66	17.01	19.16	50	-32.99
				1	5	21.76	17.11	19.26	50	-32.89
				3	2	21.83	17.18	19.33	50	-32.82
				6	0	20.66	16.01	18.16	50	-33.99
	26740	819	64QAM	1	0	21.40	16.75	18.90	50	-33.25
				1	5	21.64	16.99	19.14	50	-33.01
				3	2	21.82	17.17	19.32	50	-32.83
				6	0	20.64	15.99	18.14	50	-34.01
	26783	823.3	64QAM	1	0	22.04	17.39	19.54	50	-32.61
				1	5	21.80	17.15	19.30	50	-32.85
				3	2	21.91	17.26	19.41	50	-32.74
				6	0	20.82	16.17	18.32	50	-33.83

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Antenna gain (dBi)		-2.5								
Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 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)
3	26705	815.5	QPSK	1	0	23.73	19.08	21.23	50	-30.92
				1	14	23.82	19.17	21.32	50	-30.83
				8	4	22.76	18.11	20.26	50	-31.89
				15	0	22.78	18.13	20.28	50	-31.87
	26740	819	QPSK	1	0	23.71	19.06	21.21	50	-30.94
				1	14	23.74	19.09	21.24	50	-30.91
				8	4	22.87	18.22	20.37	50	-31.78
				15	0	22.84	18.19	20.34	50	-31.81
	26775	822.5	QPSK	1	0	23.67	19.02	21.17	50	-30.98
				1	14	23.84	19.19	21.34	50	-30.81
				8	4	22.93	18.28	20.43	50	-31.72
				15	0	22.89	18.24	20.39	50	-31.76
3	26705	815.5	16QAM	1	0	22.92	18.27	20.42	50	-31.73
				1	14	22.89	18.24	20.39	50	-31.76
				8	4	21.86	17.21	19.36	50	-32.79
				15	0	21.81	17.16	19.31	50	-32.84
	26740	819	16QAM	1	0	22.87	18.22	20.37	50	-31.78
				1	14	22.89	18.24	20.39	50	-31.76
				8	4	21.82	17.17	19.32	50	-32.83
				15	0	21.80	17.15	19.30	50	-32.85
	26775	822.5	16QAM	1	0	22.91	18.26	20.41	50	-31.74
				1	14	22.90	18.25	20.40	50	-31.75
				8	4	22.03	17.38	19.53	50	-32.62
				15	0	21.93	17.28	19.43	50	-32.72
3	26705	815.5	64QAM	1	0	21.87	17.22	19.37	50	-32.78
				1	14	21.95	17.30	19.45	50	-32.70
				8	4	20.81	16.16	18.31	50	-33.84
				15	0	20.78	16.13	18.28	50	-33.87
	26740	819	64QAM	1	0	21.95	17.30	19.45	50	-32.70
				1	14	21.38	16.73	18.88	50	-33.27
				8	4	20.86	16.21	18.36	50	-33.79
				15	0	20.77	16.12	18.27	50	-33.88
	26775	822.5	64QAM	1	0	21.95	17.30	19.45	50	-32.70
				1	14	21.80	17.15	19.30	50	-32.85
				8	4	20.99	16.34	18.49	50	-33.66
				15	0	20.93	16.28	18.43	50	-33.72

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Antenna gain (dBi)		-2.5								
Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 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)
5	26715	816.5	QPSK	1	0	23.74	19.09	21.24	50	-30.91
				1	24	23.76	19.11	21.26	50	-30.89
				12	6	22.78	18.13	20.28	50	-31.87
				25	0	22.90	18.25	20.40	50	-31.75
	26740	819	QPSK	1	0	23.87	19.22	21.37	50	-30.78
				1	24	23.76	19.11	21.26	50	-30.89
				12	6	22.82	18.17	20.32	50	-31.83
				25	0	22.76	18.11	20.26	50	-31.89
	26765	821.5	QPSK	1	0	23.81	19.16	21.31	50	-30.84
				1	24	23.70	19.05	21.20	50	-30.95
				12	6	22.91	18.26	20.41	50	-31.74
				25	0	22.86	18.21	20.36	50	-31.79
5	26715	816.5	16QAM	1	0	22.97	18.32	20.47	50	-31.68
				1	24	22.98	18.33	20.48	50	-31.67
				12	6	21.83	17.18	19.33	50	-32.82
				25	0	21.91	17.26	19.41	50	-32.74
	26740	819	16QAM	1	0	22.92	18.27	20.42	50	-31.73
				1	24	22.84	18.19	20.34	50	-31.81
				12	6	21.86	17.21	19.36	50	-32.79
				25	0	21.80	17.15	19.30	50	-32.85
	26765	821.5	16QAM	1	0	22.95	18.30	20.45	50	-31.70
				1	24	22.98	18.33	20.48	50	-31.67
				12	6	21.86	17.21	19.36	50	-32.79
				25	0	21.89	17.24	19.39	50	-32.76
5	26715	816.5	64QAM	1	0	21.95	17.30	19.45	50	-32.70
				1	24	21.95	17.30	19.45	50	-32.70
				12	6	20.86	16.21	18.36	50	-33.79
				25	0	20.88	16.23	18.38	50	-33.77
	26740	819	64QAM	1	0	21.65	17.00	19.15	50	-33.00
				1	24	21.91	17.26	19.41	50	-32.74
				12	6	20.79	16.14	18.29	50	-33.86
				25	0	20.83	16.18	18.33	50	-33.82
	26765	821.5	64QAM	1	0	22.00	17.35	19.50	50	-32.65
				1	24	22.00	17.35	19.50	50	-32.65
				12	6	21.00	16.35	18.50	50	-33.65
				25	0	20.90	16.25	18.40	50	-33.75

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Antenna gain (dBi)	-2.5									
Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 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)
10	26740	819	QPSK	1	0	23.89	19.24	21.39	50	-30.76
				1	49	23.61	18.96	21.11	50	-31.04
				25	12	22.82	18.17	20.32	50	-31.83
				50	0	22.84	18.19	20.34	50	-31.81
10	26740	819	16QAM	1	0	23	18.35	20.50	50	-31.65
				1	49	22.93	18.28	20.43	50	-31.72
				25	12	21.83	17.18	19.33	50	-32.82
				50	0	21.82	17.17	19.32	50	-32.83
10	26740	819	64QAM	1	0	21.8	17.15	19.30	50	-32.85
				1	49	21.92	17.27	19.42	50	-32.73
				25	12	20.88	16.23	18.38	50	-33.77
				50	0	20.84	16.19	18.34	50	-33.81

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Antenna gain (dBi)		-2.5								
LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	26797	824.7	QPSK	1	0	23.78	19.13	21.28	38.45	-19.32
				1	5	23.73	19.08	21.23	38.45	-19.37
				3	2	23.80	19.15	21.30	38.45	-19.30
				6	0	22.75	18.10	20.25	38.45	-20.35
	26915	836.5	QPSK	1	0	23.76	19.11	21.26	38.45	-19.34
				1	5	23.83	19.18	21.33	38.45	-19.27
				3	2	23.84	19.19	21.34	38.45	-19.26
				6	0	22.84	18.19	20.34	38.45	-20.26
	27033	848.3	QPSK	1	0	23.82	19.17	21.32	38.45	-19.28
				1	5	23.69	19.04	21.19	38.45	-19.41
				3	2	23.81	19.16	21.31	38.45	-19.29
				6	0	22.73	18.08	20.23	38.45	-20.37
1.4	26797	824.7	16QAM	1	0	22.97	18.32	20.47	38.45	-20.13
				1	5	22.80	18.15	20.30	38.45	-20.30
				3	2	22.77	18.12	20.27	38.45	-20.33
				6	0	21.83	17.18	19.33	38.45	-21.27
	26915	836.5	16QAM	1	0	22.99	18.34	20.49	38.45	-20.11
				1	5	22.84	18.19	20.34	38.45	-20.26
				3	2	22.82	18.17	20.32	38.45	-20.28
				6	0	21.89	17.24	19.39	38.45	-21.21
	27033	848.3	16QAM	1	0	22.73	18.08	20.23	38.45	-20.37
				1	5	22.69	18.04	20.19	38.45	-20.41
				3	2	22.65	18.00	20.15	38.45	-20.45
				6	0	21.89	17.24	19.39	38.45	-21.21
1.4	26797	824.7	64QAM	1	0	21.79	17.14	19.29	38.45	-21.31
				1	5	21.72	17.07	19.22	38.45	-21.38
				3	2	21.91	17.26	19.41	38.45	-21.19
				6	0	20.78	16.13	18.28	38.45	-22.32
	26915	836.5	64QAM	1	0	21.58	16.93	19.08	38.45	-21.52
				1	5	21.62	16.97	19.12	38.45	-21.48
				3	2	21.93	17.28	19.43	38.45	-21.17
				6	0	20.84	16.19	18.34	38.45	-22.26
	27033	848.3	64QAM	1	0	21.86	17.21	19.36	38.45	-21.24
				1	5	21.86	17.21	19.36	38.45	-21.24
				3	2	21.95	17.30	19.45	38.45	-21.15
				6	0	20.73	16.08	18.23	38.45	-22.37

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Antenna gain (dBi)		-2.5								
LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	26805	825.5	QPSK	1	0	23.80	19.15	21.30	38.45	-19.30
				1	14	23.85	19.20	21.35	38.45	-19.25
				8	4	22.83	18.18	20.33	38.45	-20.27
				15	0	22.80	18.15	20.30	38.45	-20.30
	26915	836.5	QPSK	1	0	23.79	19.14	21.29	38.45	-19.31
				1	14	23.85	19.20	21.35	38.45	-19.25
				8	4	22.95	18.30	20.45	38.45	-20.15
				15	0	22.89	18.24	20.39	38.45	-20.21
	27025	847.5	QPSK	1	0	23.78	19.13	21.28	38.45	-19.32
				1	14	23.73	19.08	21.23	38.45	-19.37
				8	4	22.88	18.23	20.38	38.45	-20.22
				15	0	22.82	18.17	20.32	38.45	-20.28
3	26805	825.5	16QAM	1	0	22.92	18.27	20.42	38.45	-20.18
				1	14	23.08	18.43	20.58	38.45	-20.02
				8	4	21.87	17.22	19.37	38.45	-21.23
				15	0	21.85	17.20	19.35	38.45	-21.25
	26915	836.5	16QAM	1	0	23.03	18.38	20.53	38.45	-20.07
				1	14	22.87	18.22	20.37	38.45	-20.23
				8	4	21.97	17.32	19.47	38.45	-21.13
				15	0	21.98	17.33	19.48	38.45	-21.12
	27025	847.5	16QAM	1	0	22.77	18.12	20.27	38.45	-20.33
				1	14	22.87	18.22	20.37	38.45	-20.23
				8	4	21.93	17.28	19.43	38.45	-21.17
				15	0	21.87	17.22	19.37	38.45	-21.23
3	26805	825.5	64QAM	1	0	21.93	17.28	19.43	38.45	-21.17
				1	14	22.02	17.37	19.52	38.45	-21.08
				8	4	20.91	16.26	18.41	38.45	-22.19
				15	0	20.72	16.07	18.22	38.45	-22.38
	26915	836.5	64QAM	1	0	22.08	17.43	19.58	38.45	-21.02
				1	14	21.72	17.07	19.22	38.45	-21.38
				8	4	20.98	16.33	18.48	38.45	-22.12
				15	0	20.95	16.30	18.45	38.45	-22.15
	27025	847.5	64QAM	1	0	21.87	17.22	19.37	38.45	-21.23
				1	14	21.87	17.22	19.37	38.45	-21.23
				8	4	20.88	16.23	18.38	38.45	-22.22
				15	0	20.89	16.24	18.39	38.45	-22.21

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Antenna gain (dBi)		-2.5								
LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	26815	826.5	QPSK	1	0	23.64	18.99	21.14	38.45	-19.46
				1	24	23.82	19.17	21.32	38.45	-19.28
				12	6	22.93	18.28	20.43	38.45	-20.17
				25	0	22.94	18.29	20.44	38.45	-20.16
	26915	836.5	QPSK	1	0	23.94	19.29	21.44	38.45	-19.16
				1	24	23.92	19.27	21.42	38.45	-19.18
				12	6	22.92	18.27	20.42	38.45	-20.18
				25	0	22.91	18.26	20.41	38.45	-20.19
	27015	846.5	QPSK	1	0	23.90	19.25	21.40	38.45	-19.20
				1	24	23.68	19.03	21.18	38.45	-19.42
				12	6	22.92	18.27	20.42	38.45	-20.18
				25	0	22.82	18.17	20.32	38.45	-20.28
5	26815	826.5	16QAM	1	0	23.01	18.36	20.51	38.45	-20.09
				1	24	22.87	18.22	20.37	38.45	-20.23
				12	6	21.99	17.34	19.49	38.45	-21.11
				25	0	21.90	17.25	19.40	38.45	-21.20
	26915	836.5	16QAM	1	0	23.08	18.43	20.58	38.45	-20.02
				1	24	22.88	18.23	20.38	38.45	-20.22
				12	6	21.90	17.25	19.40	38.45	-21.20
				25	0	21.95	17.30	19.45	38.45	-21.15
	27015	846.5	16QAM	1	0	23.04	18.39	20.54	38.45	-20.06
				1	24	22.94	18.29	20.44	38.45	-20.16
				12	6	21.91	17.26	19.41	38.45	-21.19
				25	0	21.92	17.27	19.42	38.45	-21.18
5	26815	826.5	64QAM	1	0	21.88	17.23	19.38	38.45	-21.22
				1	24	21.82	17.17	19.32	38.45	-21.28
				12	6	21.01	16.36	18.51	38.45	-22.09
				25	0	20.96	16.31	18.46	38.45	-22.14
	26915	836.5	64QAM	1	0	22.08	17.43	19.58	38.45	-21.02
				1	24	21.96	17.31	19.46	38.45	-21.14
				12	6	20.98	16.33	18.48	38.45	-22.12
				25	0	20.94	16.29	18.44	38.45	-22.16
	27015	846.5	64QAM	1	0	22.02	17.37	19.52	38.45	-21.08
				1	24	21.90	17.25	19.40	38.45	-21.20
				12	6	20.93	16.28	18.43	38.45	-22.17
				25	0	20.89	16.24	18.39	38.45	-22.21

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Antenna gain (dBi)		-2.5								
LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	26840	829	QPSK	1	0	23.89	19.24	21.39	38.45	-19.21
				1	49	23.87	19.22	21.37	38.45	-19.23
				25	12	22.91	18.26	20.41	38.45	-20.19
				50	0	22.89	18.24	20.39	38.45	-20.21
	26915	836.5	QPSK	1	0	23.91	19.26	21.41	38.45	-19.19
				1	49	23.64	18.99	21.14	38.45	-19.46
				25	12	22.93	18.28	20.43	38.45	-20.17
				50	0	22.89	18.24	20.39	38.45	-20.21
	26990	844	QPSK	1	0	23.84	19.19	21.34	38.45	-19.26
				1	49	23.68	19.03	21.18	38.45	-19.42
				25	12	22.94	18.29	20.44	38.45	-20.16
				50	0	22.92	18.27	20.42	38.45	-20.18
10	26840	829	16QAM	1	0	23.04	18.39	20.54	38.45	-20.06
				1	49	23.15	18.50	20.65	38.45	-19.95
				25	12	21.93	17.28	19.43	38.45	-21.17
				50	0	21.96	17.31	19.46	38.45	-21.14
	26915	836.5	16QAM	1	0	23.06	18.41	20.56	38.45	-20.04
				1	49	22.77	18.12	20.27	38.45	-20.33
				25	12	21.99	17.34	19.49	38.45	-21.11
				50	0	21.96	17.31	19.46	38.45	-21.14
	26990	844	16QAM	1	0	22.88	18.23	20.38	38.45	-20.22
				1	49	22.97	18.32	20.47	38.45	-20.13
				25	12	21.99	17.34	19.49	38.45	-21.11
				50	0	21.95	17.30	19.45	38.45	-21.15
10	26840	829	64QAM	1	0	21.74	17.09	19.24	38.45	-21.36
				1	49	21.98	17.33	19.48	38.45	-21.12
				25	12	20.96	16.31	18.46	38.45	-22.14
				50	0	20.99	16.34	18.49	38.45	-22.11
	26915	836.5	64QAM	1	0	21.98	17.33	19.48	38.45	-21.12
				1	49	21.90	17.25	19.40	38.45	-21.20
				25	12	21.00	16.35	18.50	38.45	-22.10
				50	0	20.98	16.33	18.48	38.45	-22.12
	26990	844	64QAM	1	0	22.02	17.37	19.52	38.45	-21.08
				1	49	21.81	17.16	19.31	38.45	-21.29
				25	12	20.96	16.31	18.46	38.45	-22.14
				50	0	20.91	16.26	18.41	38.45	-22.19

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Antenna gain (dBi)		-2.5								
LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
15	26865	831.5	QPSK	1	0	23.84	19.19	21.34	38.45	-19.26
				1	74	23.68	19.03	21.18	38.45	-19.42
				36	18	22.98	18.33	20.48	38.45	-20.12
				75	0	22.95	18.30	20.45	38.45	-20.15
	26915	836.5	QPSK	1	0	23.88	19.23	21.38	38.45	-19.22
				1	74	23.82	19.17	21.32	38.45	-19.28
				36	18	22.98	18.33	20.48	38.45	-20.12
				75	0	22.93	18.28	20.43	38.45	-20.17
	26965	841.5	QPSK	1	0	23.96	19.31	21.46	38.45	-19.14
				1	74	23.76	19.11	21.26	38.45	-19.34
				36	18	23.03	18.38	20.53	38.45	-20.07
				75	0	23.00	18.35	20.50	38.45	-20.10
15	26865	831.5	16QAM	1	0	22.88	18.23	20.38	38.45	-20.22
				1	74	22.90	18.25	20.40	38.45	-20.20
				36	18	21.92	17.27	19.42	38.45	-21.18
				75	0	21.95	17.30	19.45	38.45	-21.15
	26915	836.5	16QAM	1	0	22.86	18.21	20.36	38.45	-20.24
				1	74	22.97	18.32	20.47	38.45	-20.13
				36	18	22.02	17.37	19.52	38.45	-21.08
				75	0	21.96	17.31	19.46	38.45	-21.14
	26965	841.5	16QAM	1	0	23.04	18.39	20.54	38.45	-20.06
				1	74	22.75	18.10	20.25	38.45	-20.35
				36	18	22.05	17.40	19.55	38.45	-21.05
				75	0	22.03	17.38	19.53	38.45	-21.07
15	26865	831.5	64QAM	1	0	21.94	17.29	19.44	38.45	-21.16
				1	74	21.87	17.22	19.37	38.45	-21.23
				36	18	20.98	16.33	18.48	38.45	-22.12
				75	0	20.97	16.32	18.47	38.45	-22.13
	26915	836.5	64QAM	1	0	22.20	17.55	19.70	38.45	-20.90
				1	74	21.86	17.21	19.36	38.45	-21.24
				36	18	21.03	16.38	18.53	38.45	-22.07
				75	0	20.97	16.32	18.47	38.45	-22.13
	26965	841.5	64QAM	1	0	22.09	17.44	19.59	38.45	-21.01
				1	74	21.99	17.34	19.49	38.45	-21.11
				36	18	21.08	16.43	18.58	38.45	-22.02
				75	0	21.01	16.36	18.51	38.45	-22.09

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Antenna gain (dBi)		0.4							
LTE Band 30_Uplink frequency band : 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)
5	27685	2307.5	QPSK	1	0	22.43	22.83	24	-1.17
				1	24	22.24	22.64	24	-1.36
				12	6	21.44	21.84	24	-2.16
				25	0	21.31	21.71	24	-2.29
	27710	2310	QPSK	1	0	22.36	22.76	24	-1.24
				1	24	22.21	22.61	24	-1.39
				12	6	21.29	21.69	24	-2.31
				25	0	21.36	21.76	24	-2.24
	27735	2312.5	QPSK	1	0	22.37	22.77	24	-1.23
				1	24	22.25	22.65	24	-1.35
				12	6	21.34	21.74	24	-2.26
				25	0	21.35	21.75	24	-2.25
5	27685	2307.5	16QAM	1	0	21.61	22.01	24	-1.99
				1	24	21.46	21.86	24	-2.14
				12	6	20.51	20.91	24	-3.09
				25	0	20.36	20.76	24	-3.24
	27710	2310	16QAM	1	0	21.56	21.96	24	-2.04
				1	24	21.32	21.72	24	-2.28
				12	6	20.31	20.71	24	-3.29
				25	0	20.34	20.74	24	-3.26
	27735	2312.5	16QAM	1	0	21.51	21.91	24	-2.09
				1	24	21.47	21.87	24	-2.13
				12	6	20.35	20.75	24	-3.25
				25	0	20.26	20.66	24	-3.34
5	27685	2307.5	64QAM	1	0	21.61	22.01	24	-1.99
				1	24	21.36	21.76	24	-2.24
				12	6	20.39	20.79	24	-3.21
				25	0	20.28	20.68	24	-3.32
	27710	2310	64QAM	1	0	21.61	22.01	24	-1.99
				1	24	21.45	21.85	24	-2.15
				12	6	20.33	20.73	24	-3.27
				25	0	20.25	20.65	24	-3.35
	27735	2312.5	64QAM	1	0	21.44	21.84	24	-2.16
				1	24	21.41	21.81	24	-2.19
				12	6	20.34	20.74	24	-3.26
				25	0	20.30	20.70	24	-3.3

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Antenna gain (dBi)		0.4							
LTE Band 30_Uplink frequency band : 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)
10	27710	2310	QPSK	1	0	22.51	22.91	24	-1.09
				1	49	22.1	22.50	24	-1.5
				25	12	21.28	21.68	24	-2.32
				50	0	21.28	21.68	24	-2.32
10	27710	2310	16QAM	1	0	21.73	22.13	24	-1.87
				1	49	21.4	21.80	24	-2.2
				25	12	20.35	20.75	24	-3.25
				50	0	20.38	20.78	24	-3.22
10	27710	2310	64QAM	1	0	21.6	22.00	24	-2
				1	49	21.41	21.81	24	-2.19
				25	12	20.33	20.73	24	-3.27
				50	0	20.35	20.75	24	-3.25

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Antenna gain (dBi)		0.6							
LTE Band 38_Uplink frequency band : 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)
5	37775	2572.5	QPSK	1	0	23.49	24.09	33	-8.91
				1	24	23.40	24.00	33	-9
				12	6	22.51	23.11	33	-9.89
				25	0	22.43	23.03	33	-9.97
	38000	2595	QPSK	1	0	23.49	24.09	33	-8.91
				1	24	23.42	24.02	33	-8.98
				12	6	22.47	23.07	33	-9.93
				25	0	22.46	23.06	33	-9.94
	38225	2617.5	QPSK	1	0	23.69	24.29	33	-8.71
				1	24	23.66	24.26	33	-8.74
				12	6	22.73	23.33	33	-9.67
				25	0	22.70	23.30	33	-9.7
5	37775	2572.5	16QAM	1	0	22.65	23.25	33	-9.75
				1	24	22.57	23.17	33	-9.83
				12	6	21.54	22.14	33	-10.86
				25	0	21.51	22.11	33	-10.89
	38000	2595	16QAM	1	0	22.69	23.29	33	-9.71
				1	24	22.57	23.17	33	-9.83
				12	6	21.54	22.14	33	-10.86
				25	0	21.50	22.10	33	-10.9
	38225	2617.5	16QAM	1	0	22.84	23.44	33	-9.56
				1	24	22.84	23.44	33	-9.56
				12	6	21.78	22.38	33	-10.62
				25	0	21.75	22.35	33	-10.65
5	37775	2572.5	64QAM	1	0	22.58	23.18	33	-9.82
				1	24	22.47	23.07	33	-9.93
				12	6	21.36	21.96	33	-11.04
				25	0	21.42	22.02	33	-10.98
	38000	2595	64QAM	1	0	22.53	23.13	33	-9.87
				1	24	22.51	23.11	33	-9.89
				12	6	21.48	22.08	33	-10.92
				25	0	21.41	22.01	33	-10.99
	38225	2617.5	64QAM	1	0	22.82	23.42	33	-9.58
				1	24	22.69	23.29	33	-9.71
				12	6	21.75	22.35	33	-10.65
				25	0	21.66	22.26	33	-10.74

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Antenna gain (dBi)		0.6							
LTE Band 38_Uplink frequency band : 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)
10	37800	2575	QPSK	1	0	23.56	24.16	33	-8.84
				1	49	23.38	23.98	33	-9.02
				25	12	22.46	23.06	33	-9.94
				50	0	22.48	23.08	33	-9.92
	38000	2595	QPSK	1	0	23.44	24.04	33	-8.96
				1	49	23.31	23.91	33	-9.09
				25	12	22.48	23.08	33	-9.92
				50	0	22.45	23.05	33	-9.95
	38200	2615	QPSK	1	0	23.68	24.28	33	-8.72
				1	49	23.63	24.23	33	-8.77
				25	12	22.72	23.32	33	-9.68
				50	0	22.67	23.27	33	-9.73
10	37800	2575	16QAM	1	0	22.77	23.37	33	-9.63
				1	49	22.58	23.18	33	-9.82
				25	12	21.54	22.14	33	-10.86
				50	0	21.50	22.10	33	-10.9
	38000	2595	16QAM	1	0	22.72	23.32	33	-9.68
				1	49	22.58	23.18	33	-9.82
				25	12	21.50	22.10	33	-10.9
				50	0	21.53	22.13	33	-10.87
	38200	2615	16QAM	1	0	22.89	23.49	33	-9.51
				1	49	22.78	23.38	33	-9.62
				25	12	21.75	22.35	33	-10.65
				50	0	21.77	22.37	33	-10.63
10	37800	2575	64QAM	1	0	22.64	23.24	33	-9.76
				1	49	22.43	23.03	33	-9.97
				25	12	21.46	22.06	33	-10.94
				50	0	21.48	22.08	33	-10.92
	38000	2595	64QAM	1	0	22.58	23.18	33	-9.82
				1	49	22.44	23.04	33	-9.96
				25	12	21.45	22.05	33	-10.95
				50	0	21.47	22.07	33	-10.93
	38200	2615	64QAM	1	0	22.74	23.34	33	-9.66
				1	49	22.66	23.26	33	-9.74
				25	12	21.74	22.34	33	-10.66
				50	0	21.71	22.31	33	-10.69

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Antenna gain (dBi)		0.6							
LTE Band 38_Uplink frequency band : 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)
15	37825	2577.5	QPSK	1	0	23.60	24.20	33	-8.8
				1	74	23.30	23.90	33	-9.1
				36	19	22.46	23.06	33	-9.94
				75	0	22.49	23.09	33	-9.91
	38000	2595	QPSK	1	0	23.53	24.13	33	-8.87
				1	74	23.42	24.02	33	-8.98
				36	19	22.49	23.09	33	-9.91
				75	0	22.44	23.04	33	-9.96
	38175	2612.5	QPSK	1	0	23.75	24.35	33	-8.65
				1	74	23.59	24.19	33	-8.81
				36	19	22.59	23.19	33	-9.81
				75	0	22.56	23.16	33	-9.84
15	37825	2577.5	16QAM	1	0	22.79	23.39	33	-9.61
				1	74	22.54	23.14	33	-9.86
				36	19	21.49	22.09	33	-10.91
				75	0	21.51	22.11	33	-10.89
	38000	2595	16QAM	1	0	22.80	23.40	33	-9.6
				1	74	22.62	23.22	33	-9.78
				36	19	21.48	22.08	33	-10.92
				75	0	21.50	22.10	33	-10.9
	38175	2612.5	16QAM	1	0	22.90	23.50	33	-9.5
				1	74	22.73	23.33	33	-9.67
				36	19	21.62	22.22	33	-10.78
				75	0	21.63	22.23	33	-10.77
15	37825	2577.5	64QAM	1	0	22.66	23.26	33	-9.74
				1	74	22.44	23.04	33	-9.96
				36	19	21.48	22.08	33	-10.92
				75	0	21.49	22.09	33	-10.91
	38000	2595	64QAM	1	0	22.63	23.23	33	-9.77
				1	74	22.54	23.14	33	-9.86
				36	19	21.47	22.07	33	-10.93
				75	0	21.48	22.08	33	-10.92
	38175	2612.5	64QAM	1	0	22.79	23.39	33	-9.61
				1	74	22.65	23.25	33	-9.75
				36	19	21.61	22.21	33	-10.79
				75	0	21.62	22.22	33	-10.78

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Antenna gain (dBi)		0.6							
LTE Band 38_Uplink frequency band : 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)
20	37850	2580	QPSK	1	0	23.58	24.18	33	-8.82
				1	99	23.26	23.86	33	-9.14
				50	25	22.46	23.06	33	-9.94
				100	0	22.46	23.06	33	-9.94
	38000	2595	QPSK	1	0	23.59	24.19	33	-8.81
				1	99	23.39	23.99	33	-9.01
				50	25	22.49	23.09	33	-9.91
				100	0	22.50	23.10	33	-9.9
	38150	2610	QPSK	1	0	23.81	24.41	33	-8.59
				1	99	23.57	24.17	33	-8.83
				50	25	22.60	23.20	33	-9.8
				100	0	22.61	23.21	33	-9.79
20	37850	2580	16QAM	1	0	22.86	23.46	33	-9.54
				1	99	22.47	23.07	33	-9.93
				50	25	21.55	22.15	33	-10.85
				100	0	21.51	22.11	33	-10.89
	38000	2595	16QAM	1	0	22.84	23.44	33	-9.56
				1	99	22.59	23.19	33	-9.81
				50	25	21.53	22.13	33	-10.87
				100	0	21.53	22.13	33	-10.87
	38150	2610	16QAM	1	0	22.94	23.54	33	-9.46
				1	99	22.71	23.31	33	-9.69
				50	25	21.66	22.26	33	-10.74
				100	0	21.67	22.27	33	-10.73
20	37850	2580	64QAM	1	0	22.73	23.33	33	-9.67
				1	99	22.38	22.98	33	-10.02
				50	25	21.48	22.08	33	-10.92
				100	0	21.49	22.09	33	-10.91
	38000	2595	64QAM	1	0	22.72	23.32	33	-9.68
				1	99	22.50	23.10	33	-9.9
				50	25	21.47	22.07	33	-10.93
				100	0	21.50	22.10	33	-10.9
	38150	2610	64QAM	1	0	22.83	23.43	33	-9.57
				1	99	22.60	23.20	33	-9.8
				50	25	21.60	22.20	33	-10.8
				100	0	21.64	22.24	33	-10.76

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Antenna gain (dBi)		1.3							
LTE Band 41_Uplink frequency band : 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)
5	39675	2498.5	QPSK	1	0	23.26	24.56	33	-8.44
				1	24	23.27	24.57	33	-8.43
				12	6	22.39	23.69	33	-9.31
				25	0	22.36	23.66	33	-9.34
	40620	2593	QPSK	1	0	23.48	24.78	33	-8.22
				1	24	23.43	24.73	33	-8.27
				12	6	22.52	23.82	33	-9.18
				25	0	22.51	23.81	33	-9.19
	41565	2687.5	QPSK	1	0	23.67	24.97	33	-8.03
				1	24	23.49	24.79	33	-8.21
				12	6	22.63	23.93	33	-9.07
				25	0	22.61	23.91	33	-9.09
5	39675	2498.5	16QAM	1	0	22.50	23.80	33	-9.2
				1	24	22.46	23.76	33	-9.24
				12	6	21.43	22.73	33	-10.27
				25	0	21.41	22.71	33	-10.29
	40620	2593	16QAM	1	0	22.68	23.98	33	-9.02
				1	24	22.61	23.91	33	-9.09
				12	6	21.57	22.87	33	-10.13
				25	0	21.55	22.85	33	-10.15
	41565	2687.5	16QAM	1	0	22.89	24.19	33	-8.81
				1	24	22.80	24.10	33	-8.9
				12	6	21.68	22.98	33	-10.02
				25	0	21.65	22.95	33	-10.05
5	39675	2498.5	64QAM	1	0	22.46	23.76	33	-9.24
				1	24	22.44	23.74	33	-9.26
				12	6	21.29	22.59	33	-10.41
				25	0	21.30	22.60	33	-10.4
	40620	2593	64QAM	1	0	22.58	23.88	33	-9.12
				1	24	22.54	23.84	33	-9.16
				12	6	21.55	22.85	33	-10.15
				25	0	21.46	22.76	33	-10.24
	41565	2687.5	64QAM	1	0	22.75	24.05	33	-8.95
				1	24	22.67	23.97	33	-9.03
				12	6	21.67	22.97	33	-10.03
				25	0	21.61	22.91	33	-10.09

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Antenna gain (dBi)		1.3							
LTE Band 41_Uplink frequency band : 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)
10	39700	2501	QPSK	1	0	23.37	24.67	33	-8.33
				1	49	23.26	24.56	33	-8.44
				25	12	22.34	23.64	33	-9.36
				50	0	22.33	23.63	33	-9.37
	40620	2593	QPSK	1	0	23.60	24.90	33	-8.1
				1	49	23.52	24.82	33	-8.18
				25	12	22.54	23.84	33	-9.16
				50	0	22.49	23.79	33	-9.21
	41540	2685	QPSK	1	0	23.87	25.17	33	-7.83
				1	49	23.64	24.94	33	-8.06
				25	12	22.69	23.99	33	-9.01
				50	0	22.78	24.08	33	-8.92
10	39700	2501	16QAM	1	0	22.57	23.87	33	-9.13
				1	49	22.46	23.76	33	-9.24
				25	12	21.42	22.72	33	-10.28
				50	0	21.44	22.74	33	-10.26
	40620	2593	16QAM	1	0	22.74	24.04	33	-8.96
				1	49	22.72	24.02	33	-8.98
				25	12	21.57	22.87	33	-10.13
				50	0	21.59	22.89	33	-10.11
	41540	2685	16QAM	1	0	22.54	23.84	33	-9.16
				1	49	22.39	23.69	33	-9.31
				25	12	21.72	23.02	33	-9.98
				50	0	21.90	23.20	33	-9.8
10	39700	2501	64QAM	1	0	22.54	23.84	33	-9.16
				1	49	22.37	23.67	33	-9.33
				25	12	21.37	22.67	33	-10.33
				50	0	21.33	22.63	33	-10.37
	40620	2593	64QAM	1	0	22.62	23.92	33	-9.08
				1	49	22.56	23.86	33	-9.14
				25	12	21.55	22.85	33	-10.15
				50	0	21.48	22.78	33	-10.22
	41540	2685	64QAM	1	0	22.41	23.71	33	-9.29
				1	49	22.30	23.60	33	-9.4
				25	12	21.66	22.96	33	-10.04
				50	0	21.78	23.08	33	-9.92

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Antenna gain (dBi)		1.3							
LTE Band 41_Uplink frequency band : 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)
15	39725	2503.5	QPSK	1	0	23.36	24.66	33	-8.34
				1	74	23.37	24.67	33	-8.33
				36	18	22.38	23.68	33	-9.32
				75	0	22.33	23.63	33	-9.37
	40620	2593	QPSK	1	0	23.57	24.87	33	-8.13
				1	74	23.48	24.78	33	-8.22
				36	18	22.56	23.86	33	-9.14
				75	0	22.50	23.80	33	-9.2
	41515	2682.5	QPSK	1	0	23.61	24.91	33	-8.09
				1	74	23.60	24.90	33	-8.1
				36	18	22.67	23.97	33	-9.03
				75	0	22.65	23.95	33	-9.05
15	39725	2503.5	16QAM	1	0	22.60	23.90	33	-9.1
				1	74	22.57	23.87	33	-9.13
				36	18	21.38	22.68	33	-10.32
				75	0	21.38	22.68	33	-10.32
	40620	2593	16QAM	1	0	22.83	24.13	33	-8.87
				1	74	22.71	24.01	33	-8.99
				36	18	21.54	22.84	33	-10.16
				75	0	21.58	22.88	33	-10.12
	41515	2682.5	16QAM	1	0	22.81	24.11	33	-8.89
				1	74	22.78	24.08	33	-8.92
				36	18	21.68	22.98	33	-10.02
				75	0	21.73	23.03	33	-9.97
15	39725	2503.5	64QAM	1	0	22.58	23.88	33	-9.12
				1	74	22.51	23.81	33	-9.19
				36	18	21.37	22.67	33	-10.33
				75	0	21.36	22.66	33	-10.34
	40620	2593	64QAM	1	0	22.71	24.01	33	-8.99
				1	74	22.57	23.87	33	-9.13
				36	18	21.48	22.78	33	-10.22
				75	0	21.55	22.85	33	-10.15
	41515	2682.5	64QAM	1	0	22.77	24.07	33	-8.93
				1	74	22.63	23.93	33	-9.07
				36	18	21.66	22.96	33	-10.04
				75	0	21.71	23.01	33	-9.99

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Antenna gain (dBi)		1.3										
LTE Band 41_Uplink frequency band : 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)			
20	39750	2506	QPSK	1	0	23.40	24.70	33	-8.3			
				1	99	23.30	24.60	33	-8.4			
				50	25	22.41	23.71	33	-9.29			
				100	0	22.37	23.67	33	-9.33			
	40620	2593	QPSK	1	0	23.70	25.00	33	-8			
				1	99	23.52	24.82	33	-8.18			
				50	25	22.57	23.87	33	-9.13			
				100	0	22.55	23.85	33	-9.15			
				41490	2680	QPSK	1	0	23.87	25.17	33	-7.83
							1	99	23.47	24.77	33	-8.23
	50	25	22.69				23.99	33	-9.01			
	100	0	22.83				24.13	33	-8.87			
20	39750	2506	16QAM	1	0	22.60	23.90	33	-9.1			
				1	99	22.56	23.86	33	-9.14			
				50	25	21.40	22.70	33	-10.3			
				100	0	21.41	22.71	33	-10.29			
	40620	2593	16QAM	1	0	22.87	24.17	33	-8.83			
				1	99	22.66	23.96	33	-9.04			
				50	25	21.61	22.91	33	-10.09			
				100	0	21.60	22.90	33	-10.1			
				41490	2680	16QAM	1	0	23.85	25.15	33	-7.85
							1	99	24.35	25.65	33	-7.35
	50	25	21.61				22.91	33	-10.09			
	100	0	21.68				22.98	33	-10.02			
20	39750	2506	64QAM	1	0	22.60	23.90	33	-9.1			
				1	99	22.51	23.81	33	-9.19			
				50	25	21.34	22.64	33	-10.36			
				100	0	21.41	22.71	33	-10.29			
	40620	2593	64QAM	1	0	22.77	24.07	33	-8.93			
				1	99	22.57	23.87	33	-9.13			
				50	25	21.56	22.86	33	-10.14			
				100	0	21.58	22.88	33	-10.12			
				41490	2680	64QAM	1	0	22.48	23.78	33	-9.22
							1	99	24.04	25.34	33	-7.66
	50	25	21.58				22.88	33	-10.12			
	100	0	21.72				23.02	33	-9.98			

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Antenna gain (dBi)		2.4							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	131979	1710.7	QPSK	1	0	23.21	25.61	30	-4.39
				1	5	23.20	25.60	30	-4.4
				3	2	23.23	25.63	30	-4.37
				6	0	22.25	24.65	30	-5.35
	132322	1745	QPSK	1	0	23.04	25.44	30	-4.56
				1	5	22.96	25.36	30	-4.64
				3	2	23.08	25.48	30	-4.52
				6	0	21.98	24.38	30	-5.62
	132665	1779.3	QPSK	1	0	22.72	25.12	30	-4.88
				1	5	22.61	25.01	30	-4.99
				3	2	22.71	25.11	30	-4.89
				6	0	21.69	24.09	30	-5.91
1.4	131979	1710.7	16QAM	1	0	22.35	24.75	30	-5.25
				1	5	22.38	24.78	30	-5.22
				3	2	22.31	24.71	30	-5.29
				6	0	21.29	23.69	30	-6.31
	132322	1745	16QAM	1	0	22.18	24.58	30	-5.42
				1	5	22.08	24.48	30	-5.52
				3	2	22.07	24.47	30	-5.53
				6	0	21.06	23.46	30	-6.54
	132665	1779.3	16QAM	1	0	21.77	24.17	30	-5.83
				1	5	21.85	24.25	30	-5.75
				3	2	21.66	24.06	30	-5.94
				6	0	20.67	23.07	30	-6.93
1.4	131979	1710.7	64QAM	1	0	21.24	23.64	30	-6.36
				1	5	21.38	23.78	30	-6.22
				3	2	21.28	23.68	30	-6.32
				6	0	20.24	22.64	30	-7.36
	132322	1745	64QAM	1	0	21.11	23.51	30	-6.49
				1	5	21.16	23.56	30	-6.44
				3	2	21.10	23.50	30	-6.5
				6	0	19.97	22.37	30	-7.63
	132665	1779.3	64QAM	1	0	20.70	23.10	30	-6.9
				1	5	20.73	23.13	30	-6.87
				3	2	20.83	23.23	30	-6.77
				6	0	19.65	22.05	30	-7.95

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Antenna gain (dBi)		2.4							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	131987	1711.5	QPSK	1	0	23.31	25.71	30	-4.29
				1	14	23.27	25.67	30	-4.33
				8	4	22.29	24.69	30	-5.31
				15	0	22.33	24.73	30	-5.27
	132322	1745	QPSK	1	0	23.06	25.46	30	-4.54
				1	14	23.07	25.47	30	-4.53
				8	4	22.06	24.46	30	-5.54
				15	0	22.08	24.48	30	-5.52
	132657	1778.5	QPSK	1	0	22.73	25.13	30	-4.87
				1	14	22.80	25.20	30	-4.8
				8	4	21.79	24.19	30	-5.81
				15	0	21.73	24.13	30	-5.87
3	131987	1711.5	16QAM	1	0	22.44	24.84	30	-5.16
				1	14	22.47	24.87	30	-5.13
				8	4	21.40	23.80	30	-6.2
				15	0	21.34	23.74	30	-6.26
	132322	1745	16QAM	1	0	22.27	24.67	30	-5.33
				1	14	22.20	24.60	30	-5.4
				8	4	21.11	23.51	30	-6.49
				15	0	21.07	23.47	30	-6.53
	132657	1778.5	16QAM	1	0	21.95	24.35	30	-5.65
				1	14	21.98	24.38	30	-5.62
				8	4	20.82	23.22	30	-6.78
				15	0	20.77	23.17	30	-6.83
3	131987	1711.5	64QAM	1	0	22.43	24.83	30	-5.17
				1	14	22.42	24.82	30	-5.18
				8	4	21.29	23.69	30	-6.31
				15	0	21.31	23.71	30	-6.29
	132322	1745	64QAM	1	0	22.21	24.61	30	-5.39
				1	14	22.11	24.51	30	-5.49
				8	4	21.08	23.48	30	-6.52
				15	0	21.04	23.44	30	-6.56
	132657	1778.5	64QAM	1	0	21.69	24.09	30	-5.91
				1	14	21.73	24.13	30	-5.87
				8	4	20.75	23.15	30	-6.85
				15	0	20.60	23.00	30	-7

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LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	131997	1712.5	QPSK	1	0	23.41	25.81	30	-4.19
				1	24	23.35	25.75	30	-4.25
				12	6	22.35	24.75	30	-5.25
				25	0	22.36	24.76	30	-5.24
	132322	1745	QPSK	1	0	23.07	25.47	30	-4.53
				1	24	23.04	25.44	30	-4.56
				12	6	22.11	24.51	30	-5.49
				25	0	22.07	24.47	30	-5.53
	132647	1777.5	QPSK	1	0	22.79	25.19	30	-4.81
				1	24	22.77	25.17	30	-4.83
				12	6	21.86	24.26	30	-5.74
				25	0	21.82	24.22	30	-5.78
5	131997	1712.5	16QAM	1	0	22.45	24.85	30	-5.15
				1	24	22.53	24.93	30	-5.07
				12	6	21.34	23.74	30	-6.26
				25	0	21.34	23.74	30	-6.26
	132322	1745	16QAM	1	0	22.32	24.72	30	-5.28
				1	24	22.32	24.72	30	-5.28
				12	6	21.08	23.48	30	-6.52
				25	0	21.06	23.46	30	-6.54
	132647	1777.5	16QAM	1	0	22.07	24.47	30	-5.53
				1	24	21.97	24.37	30	-5.63
				12	6	20.81	23.21	30	-6.79
				25	0	20.79	23.19	30	-6.81
5	131997	1712.5	64QAM	1	0	22.28	24.68	30	-5.32
				1	24	22.24	24.64	30	-5.36
				12	6	21.32	23.72	30	-6.28
				25	0	21.29	23.69	30	-6.31
	132322	1745	64QAM	1	0	22.30	24.70	30	-5.3
				1	24	22.20	24.60	30	-5.4
				12	6	21.07	23.47	30	-6.53
				25	0	21.05	23.45	30	-6.55
	132647	1777.5	64QAM	1	0	22.05	24.45	30	-5.55
				1	24	21.94	24.34	30	-5.66
				12	6	20.78	23.18	30	-6.82
				25	0	20.77	23.17	30	-6.83

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Antenna gain (dBi)		2.4										
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz												
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)			
10	132022	1715	QPSK	1	0	23.35	25.75	30	-4.25			
				1	49	23.20	25.60	30	-4.4			
				25	12	22.33	24.73	30	-5.27			
				50	0	22.33	24.73	30	-5.27			
	132322	1745	QPSK	1	0	23.15	25.55	30	-4.45			
				1	49	23.05	25.45	30	-4.55			
				25	12	22.12	24.52	30	-5.48			
				50	0	22.10	24.50	30	-5.5			
				132622	1775	QPSK	1	0	22.81	25.21	30	-4.79
							1	49	22.71	25.11	30	-4.89
	10	132022	1715	16QAM	1	0	22.64	25.04	30	-4.96		
					1	49	22.52	24.92	30	-5.08		
25					12	21.35	23.75	30	-6.25			
50					0	21.38	23.78	30	-6.22			
132322		1745	16QAM	1	0	22.37	24.77	30	-5.23			
				1	49	22.35	24.75	30	-5.25			
				25	12	21.11	23.51	30	-6.49			
				50	0	21.12	23.52	30	-6.48			
				132622	1775	16QAM	1	0	22.06	24.46	30	-5.54
							1	49	21.90	24.30	30	-5.7
10		132022	1715	64QAM	1	0	22.38	24.78	30	-5.22		
					1	49	22.36	24.76	30	-5.24		
	25				12	21.31	23.71	30	-6.29			
	50				0	21.37	23.77	30	-6.23			
	132322	1745	64QAM	1	0	22.29	24.69	30	-5.31			
				1	49	22.24	24.64	30	-5.36			
				25	12	21.09	23.49	30	-6.51			
				50	0	21.11	23.51	30	-6.49			
				132622	1775	64QAM	1	0	21.97	24.37	30	-5.63
							1	49	21.58	23.98	30	-6.02
	132622	1775	64QAM	25	12	20.88	23.28	30	-6.72			
				50	0	20.83	23.23	30	-6.77			

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Antenna gain (dBi)		2.4							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	132047	1717.5	QPSK	1	0	23.41	25.81	30	-4.19
				1	74	23.25	25.65	30	-4.35
				36	18	22.34	24.74	30	-5.26
				75	0	22.40	24.80	30	-5.2
	132322	1745	QPSK	1	0	23.27	25.67	30	-4.33
				1	74	23.10	25.50	30	-4.5
				36	18	22.15	24.55	30	-5.45
				75	0	22.09	24.49	30	-5.51
	132597	1772.5	QPSK	1	0	23.01	25.41	30	-4.59
				1	74	22.86	25.26	30	-4.74
				36	18	21.88	24.28	30	-5.72
				75	0	21.88	24.28	30	-5.72
15	132047	1717.5	16QAM	1	0	22.70	25.10	30	-4.9
				1	74	22.51	24.91	30	-5.09
				36	18	21.36	23.76	30	-6.24
				75	0	21.39	23.79	30	-6.21
	132322	1745	16QAM	1	0	22.40	24.80	30	-5.2
				1	74	22.24	24.64	30	-5.36
				36	18	21.12	23.52	30	-6.48
				75	0	21.14	23.54	30	-6.46
	132597	1772.5	16QAM	1	0	22.25	24.65	30	-5.35
				1	74	21.98	24.38	30	-5.62
				36	18	20.93	23.33	30	-6.67
				75	0	20.90	23.30	30	-6.7
15	132047	1717.5	64QAM	1	0	22.48	24.88	30	-5.12
				1	74	22.40	24.80	30	-5.2
				36	18	21.35	23.75	30	-6.25
				75	0	21.33	23.73	30	-6.27
	132322	1745	64QAM	1	0	22.38	24.78	30	-5.22
				1	74	22.20	24.60	30	-5.4
				36	18	21.11	23.51	30	-6.49
				75	0	21.13	23.53	30	-6.47
	132597	1772.5	64QAM	1	0	21.97	24.37	30	-5.63
				1	74	21.94	24.34	30	-5.66
				36	18	20.92	23.32	30	-6.68
				75	0	20.88	23.28	30	-6.72

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Antenna gain (dBi)		2.4							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	132072	1720	QPSK	1	0	23.43	25.83	30	-4.17
				1	99	23.29	25.69	30	-4.31
				50	25	22.38	24.78	30	-5.22
				100	0	22.34	24.74	30	-5.26
	132322	1745	QPSK	1	0	23.27	25.67	30	-4.33
				1	99	23.10	25.50	30	-4.5
				50	25	22.15	24.55	30	-5.45
				100	0	22.10	24.50	30	-5.5
	132572	1770	QPSK	1	0	23.03	25.43	30	-4.57
				1	99	22.83	25.23	30	-4.77
				50	25	21.90	24.30	30	-5.7
				100	0	21.91	24.31	30	-5.69
20	132072	1720	16QAM	1	0	22.26	24.66	30	-5.34
				1	99	22.36	24.76	30	-5.24
				50	25	21.34	23.74	30	-6.26
				100	0	21.38	23.78	30	-6.22
	132322	1745	16QAM	1	0	22.50	24.90	30	-5.1
				1	99	22.33	24.73	30	-5.27
				50	25	21.16	23.56	30	-6.44
				100	0	21.11	23.51	30	-6.49
	132572	1770	16QAM	1	0	22.11	24.51	30	-5.49
				1	99	22.01	24.41	30	-5.59
				50	25	20.91	23.31	30	-6.69
				100	0	20.91	23.31	30	-6.69
20	132072	1720	64QAM	1	0	22.19	24.59	30	-5.41
				1	99	22.33	24.73	30	-5.27
				50	25	21.31	23.71	30	-6.29
				100	0	21.36	23.76	30	-6.24
	132322	1745	64QAM	1	0	22.49	24.89	30	-5.11
				1	99	22.08	24.48	30	-5.52
				50	25	21.12	23.52	30	-6.48
				100	0	21.09	23.49	30	-6.51
	132572	1770	64QAM	1	0	22.07	24.47	30	-5.53
				1	99	21.81	24.21	30	-5.79
				50	25	20.89	23.29	30	-6.71
				100	0	20.90	23.30	30	-6.7

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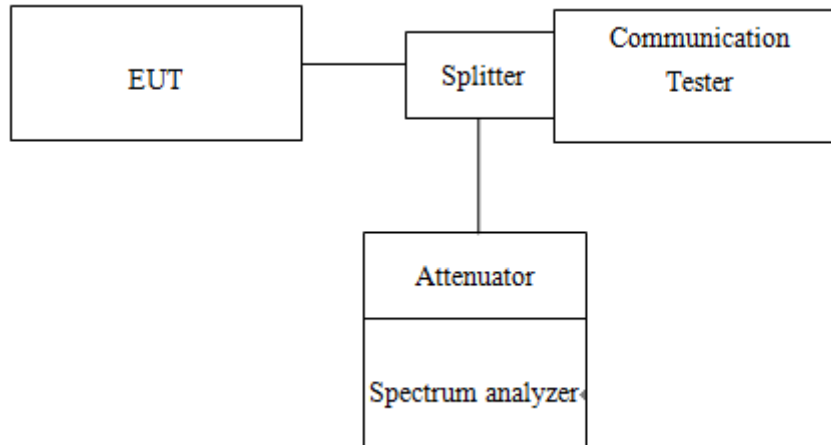
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7 OCCUPIED BANDWIDTH MEASUREMENT

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% ~ 5% of emission BW, VBW= 3 times RBW. Set RBW= 1% ~ 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: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
Radio Communication Analyser	Anritsu	MT8820C	6201465317	02/24/2021	02/23/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	05/19/2021	05/18/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/16/2020	12/15/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/29/2020	10/28/2021

7.5 Measurement Result

LTE BAND 2 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1850.7	18607	1.0847	1.0850	1.0837	1.223	1.222	1.223
1880.0	18900	1.0837	1.0840	1.0840	1.219	1.223	1.222
1909.3	19193	1.0851	1.0858	1.0840	1.223	1.221	1.220

LTE BAND 2 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1851.5	18615	2.6857	2.6891	2.6898	2.959	2.975	2.954
1880.0	18900	2.6863	2.6887	2.6900	2.957	2.974	2.950
1908.5	19185	2.6844	2.6892	2.6895	2.947	2.971	2.952

LTE BAND 2 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1852.5	18625	4.4769	4.4812	4.4786	4.952	4.963	4.914
1880.0	18900	4.4832	4.4820	4.4750	4.929	4.948	4.908
1907.5	19175	4.4777	4.4773	4.4750	4.946	4.962	4.908

LTE BAND 2 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1855.0	18650	8.9459	8.9298	8.9675	9.751	9.665	9.769
1880.0	18900	8.9619	8.9322	8.9592	9.737	9.689	9.753
1905.0	19150	8.9690	8.9297	8.9566	9.758	9.690	9.790

LTE BAND 2 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1857.5	18675	13.437	13.418	13.422	14.53	14.51	14.63
1880.0	18900	13.432	13.414	13.423	14.51	14.65	14.56
1902.5	19125	13.450	13.422	13.429	14.54	14.59	14.47

LTE BAND 2 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1860.0	18700	17.866	17.907	17.873	19.28	19.37	19.37
1880.0	18900	17.877	17.913	17.884	19.29	19.38	19.26
1900.0	19100	17.876	17.905	17.875	19.30	19.34	19.36

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LTE BAND 4 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1710.7	19957	1.0841	1.0857	1.0847	1.228	1.229	1.220
1732.5	20175	1.0841	1.0851	1.0840	1.227	1.223	1.221
1754.3	20393	1.0857	1.0851	1.0840	1.227	1.226	1.219

LTE BAND 4 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1711.5	19965	2.6859	2.6896	2.6912	2.968	2.973	2.945
1732.5	20175	2.6851	2.6876	2.6899	2.945	2.963	2.952
1753.5	20385	2.6869	2.6893	2.6901	2.948	2.966	2.954

LTE BAND 4 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1712.5	19975	4.4799	4.4799	4.4818	4.951	4.919	4.900
1732.5	20175	4.4763	4.4787	4.4778	4.935	4.929	4.913
1752.5	20375	4.4787	4.4808	4.4801	4.958	4.921	4.902

LTE BAND 4 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1715.0	20000	8.9704	8.9305	8.9591	9.758	9.676	9.781
1732.5	20175	8.9556	8.9322	8.9570	9.753	9.687	9.733
1750.0	20350	8.9648	8.9339	8.9587	9.715	9.716	9.793

LTE BAND 4 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1717.5	20025	13.430	13.416	13.424	14.54	14.62	14.59
1732.5	20175	13.439	13.414	13.439	14.56	14.61	14.61
1747.5	20325	13.444	13.423	13.415	14.57	14.51	14.56

LTE BAND 4 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1720.0	20050	17.873	17.900	17.880	19.36	19.35	19.24
1732.5	20175	17.880	17.906	17.880	19.28	19.34	19.30
1745.0	20300	17.862	17.895	17.873	19.22	19.35	19.34

LTE BAND 5 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
824.7	20407	1.0837	1.0841	1.0832	1.220	1.219	1.218
836.5	20525	1.0840	1.0853	1.0837	1.221	1.220	1.216
848.3	20643	1.0839	1.0842	1.0826	1.220	1.222	1.220

LTE BAND 5 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
825.5	20415	2.6891	2.6918	2.6932	2.942	2.974	2.951
836.5	20525	2.6878	2.6895	2.6852	2.943	2.959	2.945
847.5	20635	2.6859	2.6873	2.6888	2.953	2.964	2.943

LTE BAND 5 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
826.5	20425	4.4801	4.4819	4.4904	4.962	4.932	4.918
836.5	20525	4.4765	4.4760	4.4899	4.931	4.929	4.922
846.5	20625	4.4765	4.4772	4.4894	4.947	4.941	4.916

LTE BAND 5 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
829.0	20450	8.9697	8.9350	8.9490	9.727	9.684	9.706
836.5	20525	8.9641	8.9312	8.9473	9.704	9.672	9.710
844.0	20600	8.9498	8.9305	8.9516	9.749	9.683	9.720

LTE BAND 7 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2502.5	20775	4.4805	4.4781	4.4907	4.940	4.955	4.941
2535.0	21100	4.4787	4.4788	4.4851	4.931	4.946	4.934
2567.5	21425	4.4781	4.4827	4.4920	4.916	4.898	4.905

LTE BAND 7 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2505.0	20800	8.9812	8.9492	8.9522	9.768	9.715	9.748
2535.0	21100	8.9785	8.9330	8.9625	9.750	9.689	9.726
2565.0	21400	8.9661	8.9288	8.9637	9.737	9.620	9.754

LTE BAND 7 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2507.5	20825	13.416	13.439	13.405	14.46	14.66	14.54
2535.0	21100	13.417	13.400	13.417	14.55	14.53	14.62
2562.5	21375	13.423	13.419	13.379	14.50	14.49	14.64

LTE BAND 7 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2510.0	20850	17.863	17.865	17.869	19.29	19.25	19.43
2535.0	21100	17.877	17.911	17.877	19.28	19.32	19.33
2560.0	21350	17.854	17.865	17.873	19.21	19.25	19.31

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LTE BAND 12 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
699.7	23017	1.0846	1.0855	1.0833	1.222	1.221	1.222
707.5	23095	1.0854	1.0856	1.0830	1.212	1.219	1.220
715.3	23173	1.0860	1.0843	1.0837	1.224	1.216	1.220

LTE BAND 12 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
700.5	23025	2.6855	2.6907	2.6921	2.964	2.959	2.950
707.5	23095	2.6867	2.6897	2.6893	2.964	2.975	2.943
714.5	23165	2.6865	2.6885	2.6879	2.956	2.965	2.944

LTE BAND 12 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
701.5	23035	4.4725	4.4782	4.4828	4.942	4.931	4.923
707.5	23095	4.4766	4.4821	4.4865	4.921	5.380	4.916
713.5	23155	4.4724	4.4772	4.4835	4.933	4.938	4.925

LTE BAND 12 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
704.0	23060	8.9599	8.9252	8.9387	9.701	9.667	9.723
707.5	23095	8.9682	8.9526	8.9623	9.754	9.691	9.713
711.0	23130	8.9726	8.9450	8.9598	9.782	9.660	9.732

LTE BAND 13 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
779.5	23205	4.4731	4.4779	4.4809	4.921	4.886	4.900
782.0	23230	4.4817	4.4803	4.4918	4.932	4.919	4.932
784.5	23255	4.4802	4.4761	4.4845	4.937	4.915	4.934

LTE BAND 13 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
782.0	23230	8.9549	8.9303	8.9396	9.712	9.646	9.684

LTE BAND 14 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
790.5	23305	4.4731	4.4791	4.4877	4.940	4.774	4.907
793.0	23330	4.4753	4.4783	4.4753	4.945	4.911	4.895

LTE BAND 14 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
793.0	23330	8.9373	8.9254	8.9422	9.674	9.690	9.712

LTE BAND 25 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1850.7	26047	1.0837	1.0835	1.0818	1.222	1.226	1.216
1882.5	26365	1.0844	1.0844	1.0819	1.218	1.219	1.221
1914.3	26683	1.0843	1.0842	1.0818	1.225	1.217	1.223

LTE BAND 25 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1851.5	26055	2.6854	2.6859	2.6849	2.950	2.958	2.942
1882.5	26365	2.6848	2.6827	2.6905	2.939	2.965	2.950
1913.5	26675	2.6851	2.6835	2.6895	2.976	2.956	2.942

LTE BAND 25 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1852.5	26065	4.4792	4.4854	4.4872	4.929	4.917	4.938
1882.5	26365	4.4790	4.4770	4.4835	4.924	4.912	4.917
1912.5	26665	4.4797	4.4831	4.4839	4.944	4.948	4.930

LTE BAND 25 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1855.0	26090	8.9648	8.9364	8.9569	9.644	9.655	9.699
1882.5	26365	8.9453	8.9415	8.9458	9.708	9.648	9.747
1910.0	26640	8.9588	8.9312	8.9497	9.698	9.678	9.710

LTE BAND 25 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1857.5	26115	13.406	13.431	13.400	14.54	14.51	14.42
1882.5	26365	13.436	13.436	13.416	14.46	14.48	14.41
1907.5	26615	13.437	13.405	13.404	14.57	14.49	14.64

LTE BAND 25 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1860.0	26140	17.868	17.875	17.874	19.32	19.26	19.34
1882.5	26365	17.830	17.883	17.890	19.28	19.32	19.35
1905.0	26590	17.861	17.907	17.878	19.25	19.29	19.34

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LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
814.7	26697	1.0852	1.0828	1.0822	1.224	1.221	1.216
819.0	26740	1.0833	1.0817	1.0826	1.217	1.215	1.223
823.3	26783	1.0841	1.0840	1.0830	1.215	1.218	1.217

LTE BAND 26 for part 90S Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
815.5	26705	2.6839	2.6857	2.6888	2.955	2.964	2.947
819.0	26740	2.6821	2.6845	2.6884	2.960	2.958	2.931
822.5	26775	2.6856	2.6824	2.6883	2.950	2.961	2.932

LTE BAND 26 for part 90S Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
816.5	26715	4.4782	4.4754	4.4805	4.955	4.915	4.905
819.0	26740	4.4774	4.4775	4.4856	4.917	4.945	4.941
821.5	26765	4.4757	4.4816	4.4934	4.940	4.890	4.935

LTE BAND 26 for part 90S Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
819.0	26740	8.9477	8.9255	8.9345	9.711	9.650	9.735

LTE BAND 26 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
824.7	26797	1.0833	1.0834	1.0814	1.223	1.223	1.219
836.5	26915	1.0847	1.0832	1.0828	1.219	1.214	1.222
848.3	27033	1.0847	1.0852	1.0829	1.218	1.217	1.224

LTE BAND 26 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
825.5	26805	2.6869	2.6850	2.6886	2.952	2.957	2.946
836.5	26915	2.6836	2.6830	2.6880	2.963	2.974	2.944
847.5	27025	2.6836	2.6844	2.6892	2.953	2.955	2.931

LTE BAND 26 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
826.5	26815	4.4838	4.4831	4.4946	4.930	4.928	4.894
836.5	26915	4.4796	4.4828	4.4829	4.912	4.922	4.919
846.5	27015	4.4747	4.4768	4.4871	4.939	4.907	4.950

LTE BAND 26 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
829.0	26840	8.9510	8.9419	8.9433	9.743	9.704	9.689
836.5	26915	8.9654	8.9293	8.9426	9.667	9.680	9.686
844.0	26990	8.9567	8.9216	8.9490	9.691	9.688	9.723

LTE BAND 26 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
831.5	26865	13.384	13.400	13.406	14.46	14.50	14.48
836.5	26915	13.440	13.421	13.397	14.53	14.63	14.55
841.5	26965	13.428	13.408	13.389	14.42	14.48	14.58

LTE BAND 30 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2310.0	27710	8.9591	8.9269	8.9417	9.642	9.680	9.714

LTE BAND 30 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2307.5	27685	4.4849	4.4806	4.4867	4.925	4.915	4.904
2310.0	27710	4.4779	4.4775	4.4923	4.944	4.900	4.918
2312.5	27735	4.4770	4.4796	4.4829	4.925	4.894	4.912

LTE BAND 38 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2572.5	37775	4.4809	4.4729	4.4895	4.950	4.905	4.873
2595.0	38000	4.4753	4.4840	4.4953	4.910	4.898	4.892
2617.5	38225	4.4813	4.4735	4.4906	4.917	4.894	4.881

LTE BAND 38 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2575.0	37800	8.9378	8.9135	8.9588	9.693	9.664	9.684
2595.0	38000	8.9302	8.9360	8.9429	9.612	9.622	9.735
2615.0	38200	8.9504	8.9307	8.9241	9.639	9.608	9.741

LTE BAND 38 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2577.5	37825	13.396	13.418	13.413	14.47	14.63	14.50
2595.0	38000	13.411	13.397	13.387	14.42	14.56	14.45
2612.5	38175	13.391	13.403	13.402	14.37	14.69	14.41

LTE BAND 38 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2580.0	37850	17.879	17.840	17.879	19.20	19.19	19.11
2595.0	38000	17.861	17.847	17.849	19.14	19.16	19.08
2610.0	38150	17.850	17.856	17.845	19.09	19.21	19.21

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LTE BAND 41 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2498.5	39675	4.4897	4.4763	4.4908	4.967	4.934	4.915
2593.0	40620	4.4777	4.4718	4.4896	4.936	4.895	4.918
2687.5	41565	4.4819	4.4785	4.4910	4.983	4.936	4.922

LTE BAND 41 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2501.0	39700	8.9372	8.9288	8.9296	9.668	9.600	9.718
2593.0	40620	8.9415	8.9325	8.9431	9.681	9.643	9.693
2685.0	41540	8.9357	8.9313	8.9485	9.602	9.705	9.713

LTE BAND 41 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2503.5	39725	13.432	13.427	13.394	14.38	14.64	14.59
2593.0	40620	13.395	13.406	13.407	14.38	14.62	14.50
2682.5	41515	13.425	13.423	13.397	14.44	14.63	14.47

LTE BAND 41 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2506.0	39750	17.839	17.861	17.854	19.25	19.26	19.13
2593.0	40620	17.872	17.838	17.851	19.09	19.16	19.29
2680.0	41490	17.814	17.796	17.798	19.08	19.14	19.05

LTE BAND 66 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1710.7	131979	1.0844	1.0814	1.0824	1.230	1.227	1.222
1745.0	132322	1.0838	1.0810	1.0820	1.221	1.222	1.222
1779.3	132665	1.0846	1.0829	1.0825	1.220	1.223	1.220

LTE BAND 66 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1711.5	131987	2.6839	2.6853	2.6872	2.939	2.970	2.933
1745.0	132322	2.6852	2.6827	2.6856	2.957	2.965	2.941
1778.5	132657	2.6858	2.6942	2.6882	2.940	2.959	2.935

LTE BAND 66 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1712.5	131997	4.4799	4.4808	4.4809	4.947	4.912	4.923
1745.0	132322	4.4806	4.4792	4.4911	4.958	4.945	4.933
1777.5	132647	4.4783	4.4830	4.4864	4.941	4.932	4.934

LTE BAND 66 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1715.0	132022	8.9608	8.9344	8.9455	9.717	9.668	9.750
1745.0	132322	8.9496	8.9362	8.9512	9.772	9.718	9.759
1775.0	132622	8.9611	8.9434	8.9567	9.765	9.729	9.731

LTE BAND 66 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1717.5	132047	13.432	13.417	13.400	14.53	14.68	14.53
1745.0	132322	13.445	13.417	13.400	14.52	14.50	14.58
1772.5	132597	13.444	13.423	13.406	14.52	14.53	14.55

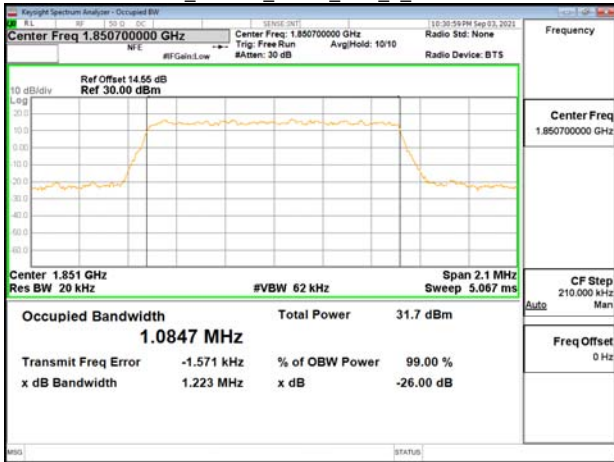
LTE BAND 66 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1720.0	132072	17.870	17.880	17.864	19.34	19.37	19.27
1745.0	132322	17.858	17.871	17.865	19.32	19.29	19.25
1770.0	132572	17.885	17.923	17.875	19.25	19.36	19.27

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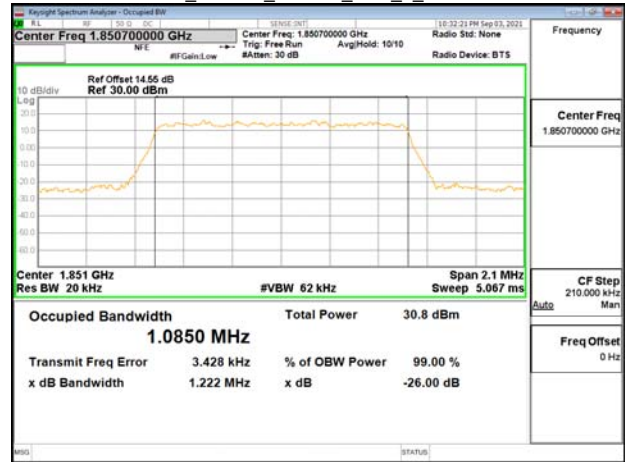
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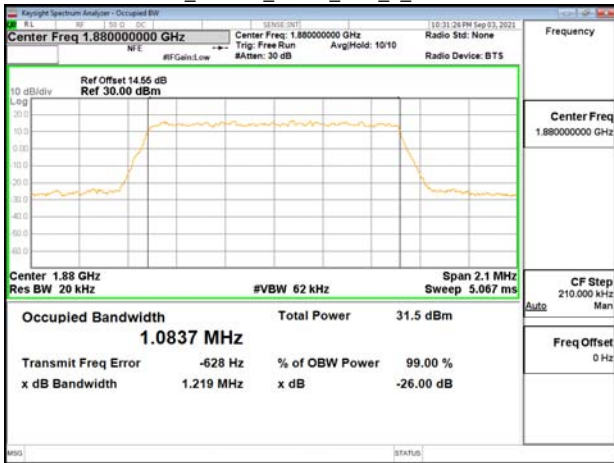
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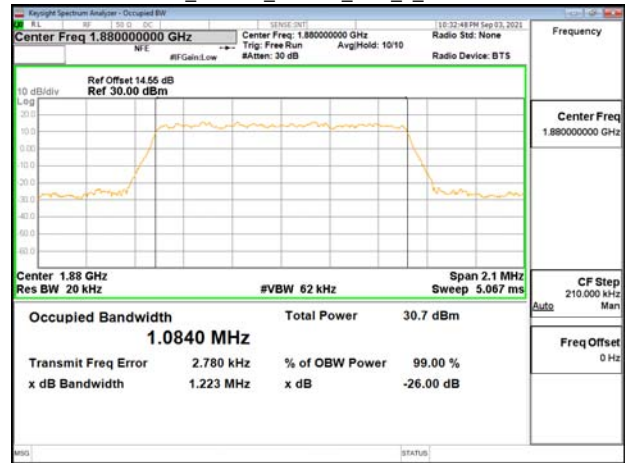
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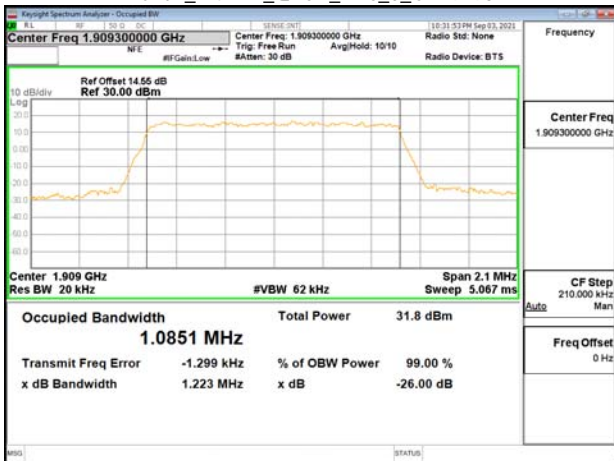
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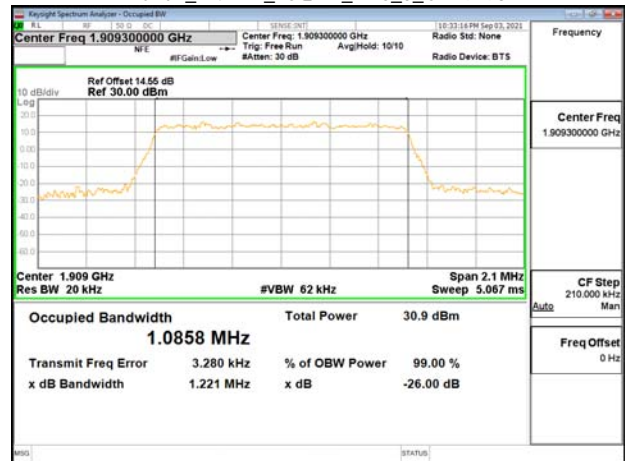
Band2_1.4MHz_16QAM_RB6_0_CH18900



Band2_1.4MHz_QPSK_RB6_0_CH19193



Band2_1.4MHz_16QAM_RB6_0_CH19193

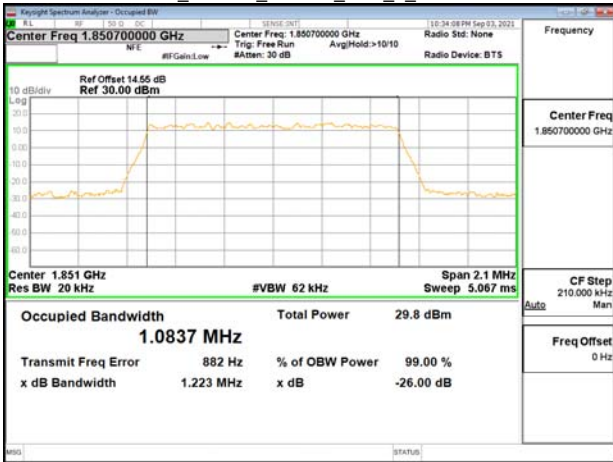


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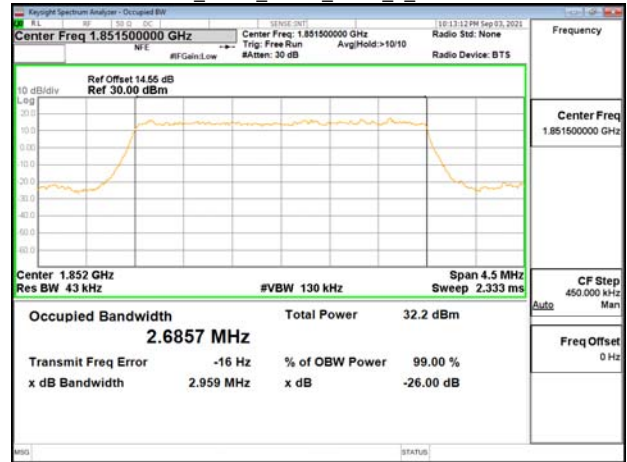
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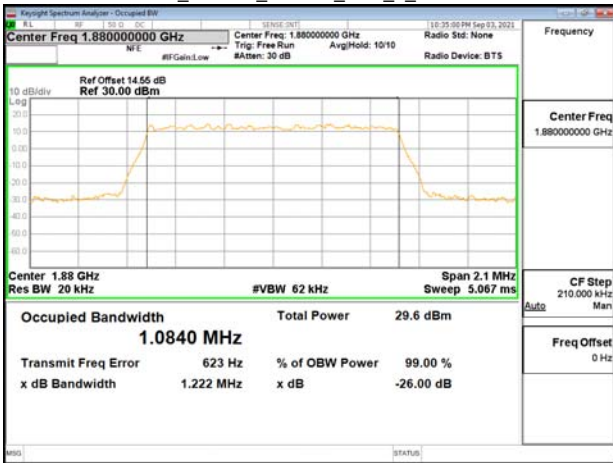
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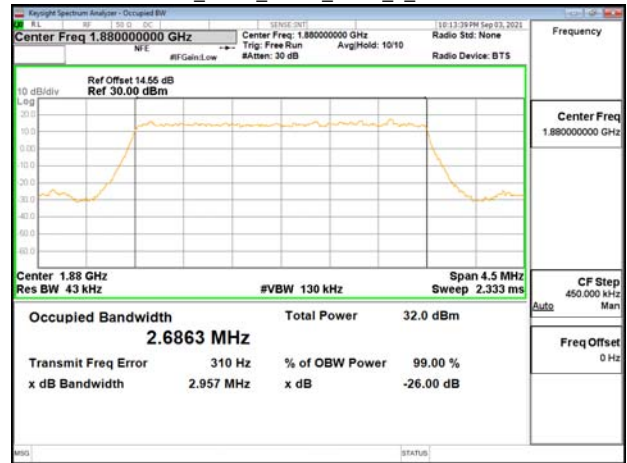
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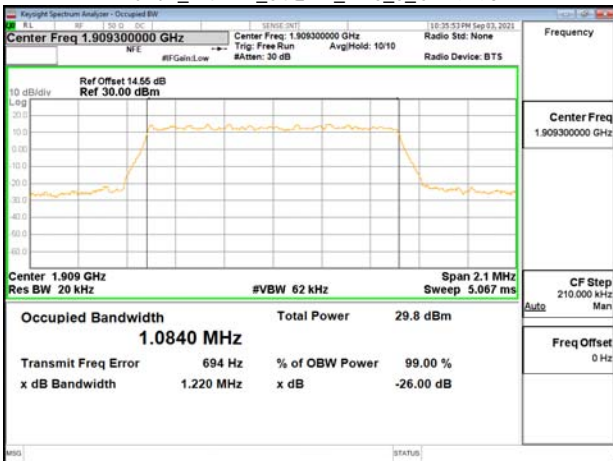
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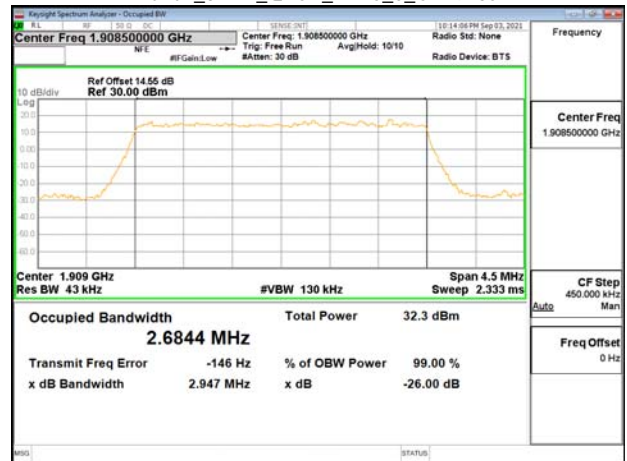
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Band2_1.4MHz_64QAM_RB6_0_CH19193



Band2_3MHz_QPSK_RB15_0_CH19185

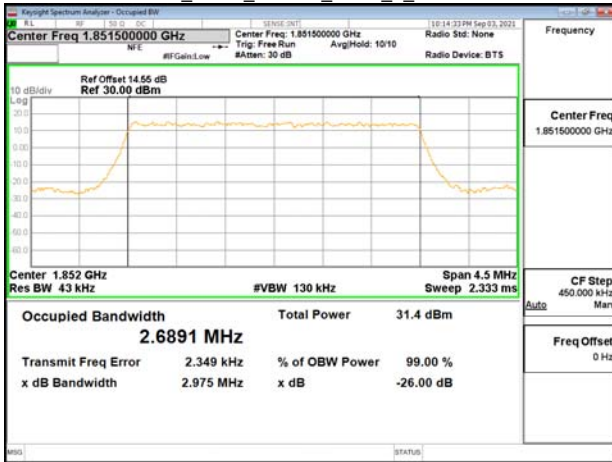


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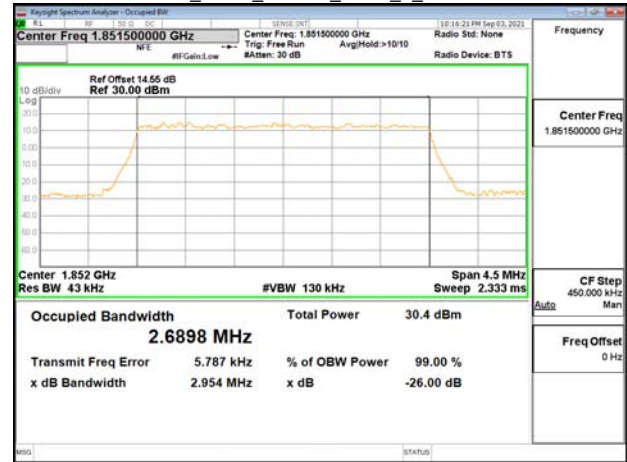
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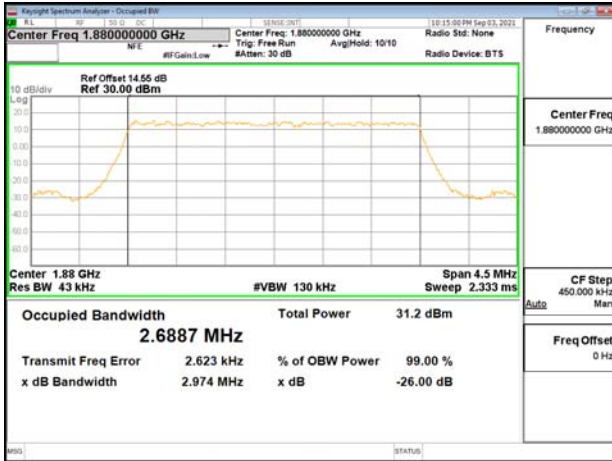
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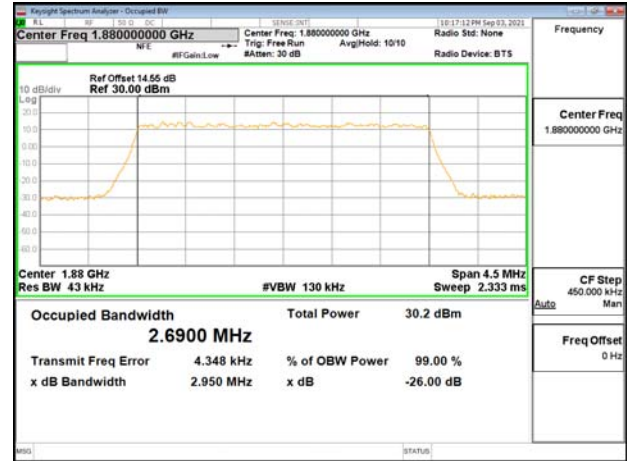
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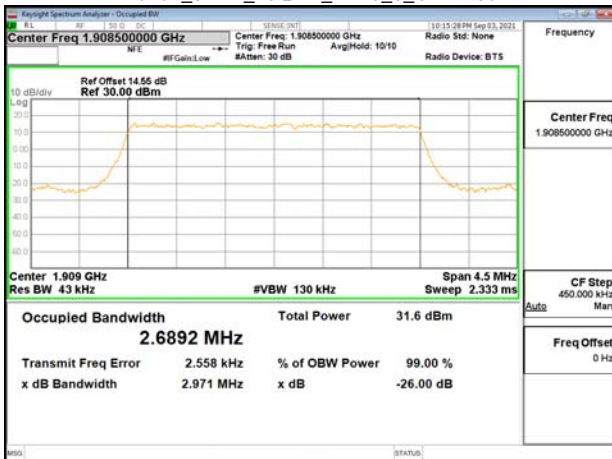
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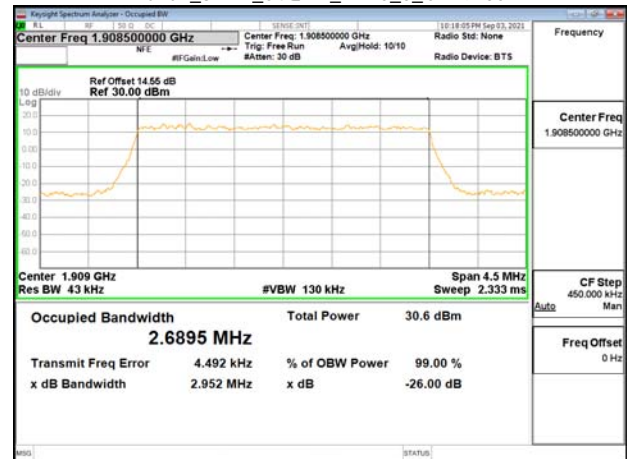
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Band2_3MHz_16QAM_RB15_0_CH19185



Band2_3MHz_64QAM_RB15_0_CH19185

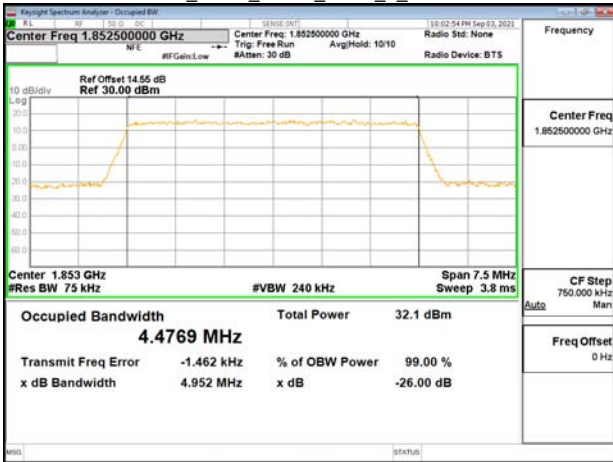


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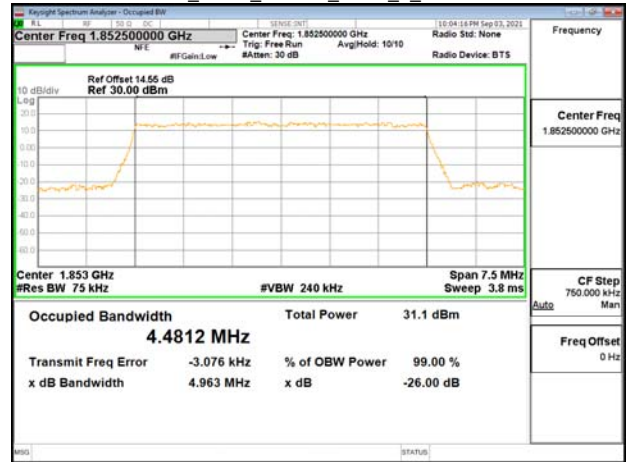
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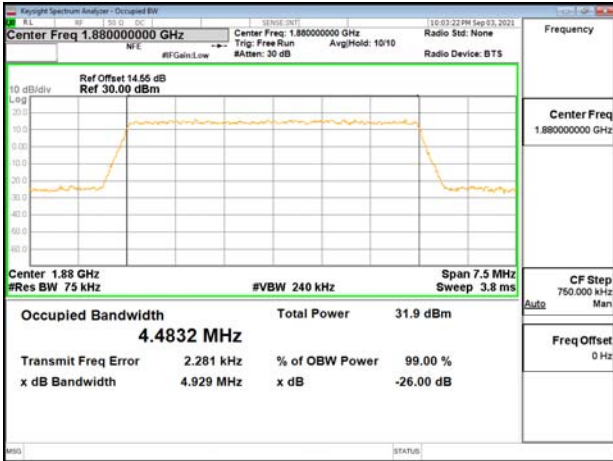
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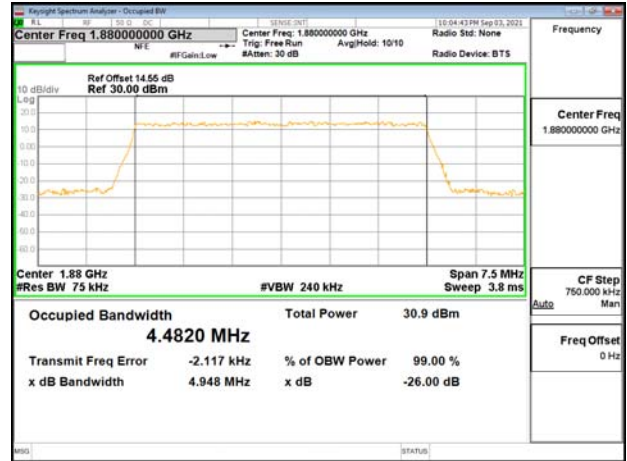
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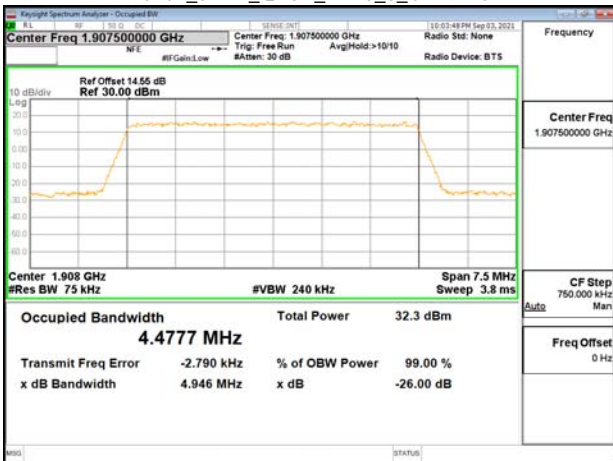
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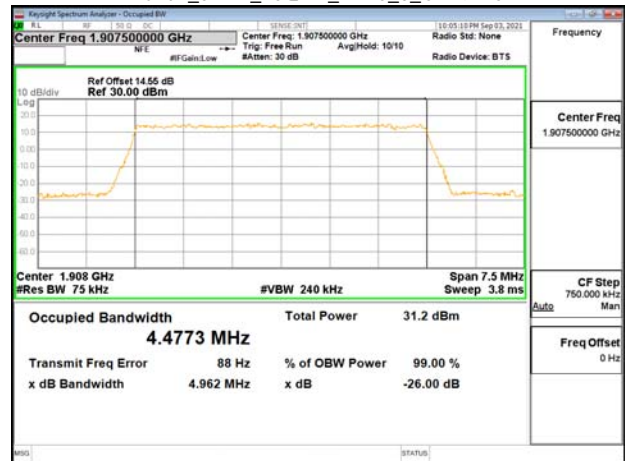
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Band2_5MHz_QPSK_RB25_0_CH19175



Band2_5MHz_16QAM_RB25_0_CH19175

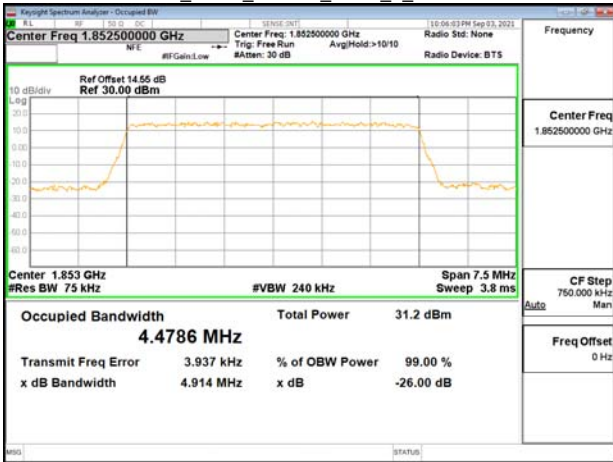


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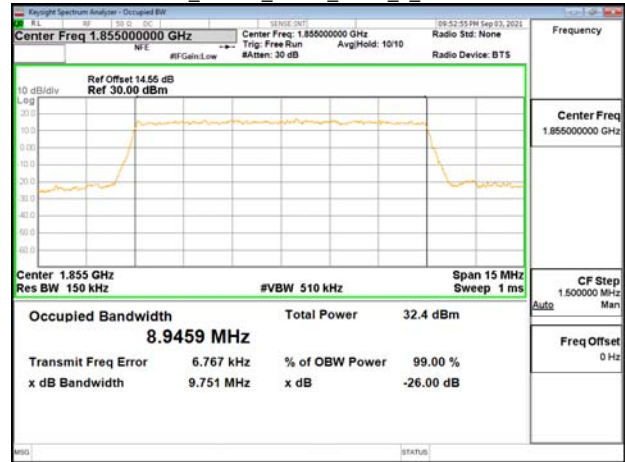
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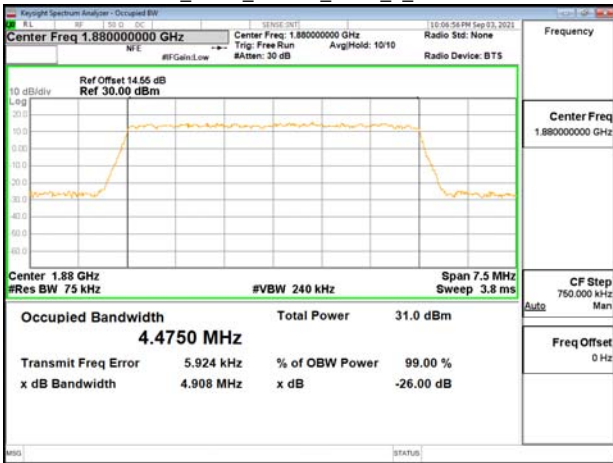
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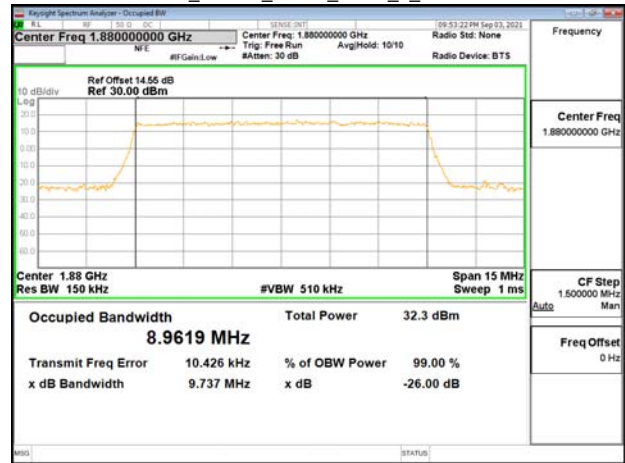
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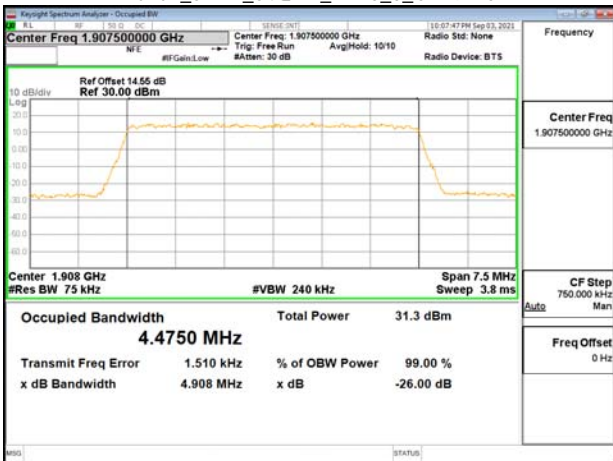
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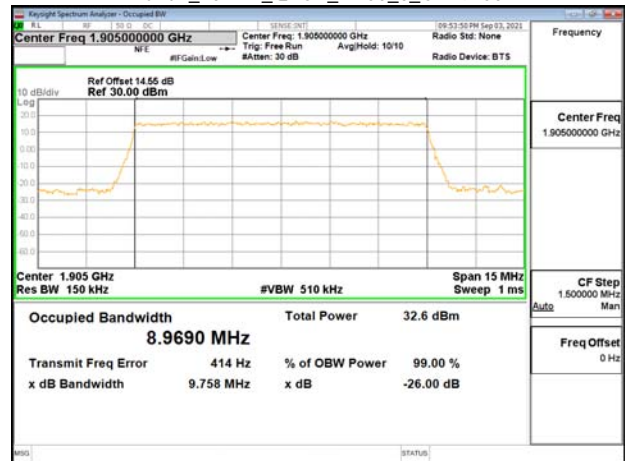
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Band2_5MHz_64QAM_RB25_0_CH19175



Band2_10MHz_QPSK_RB50_0_CH19150

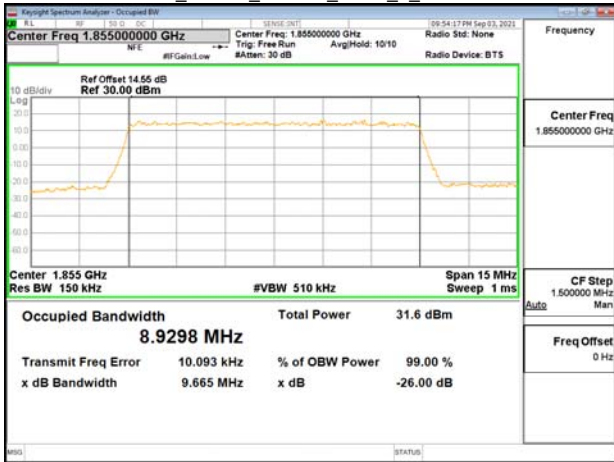


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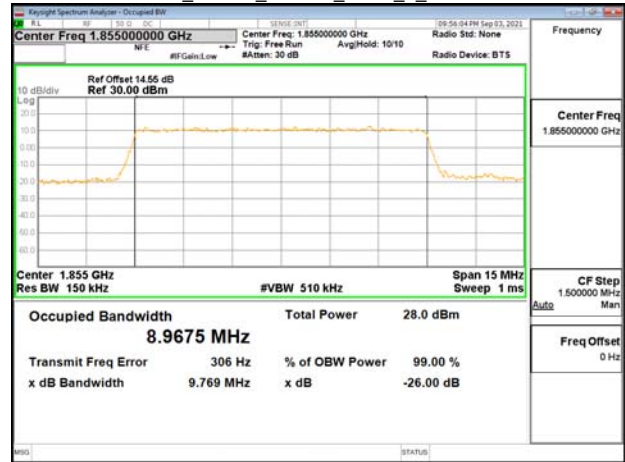
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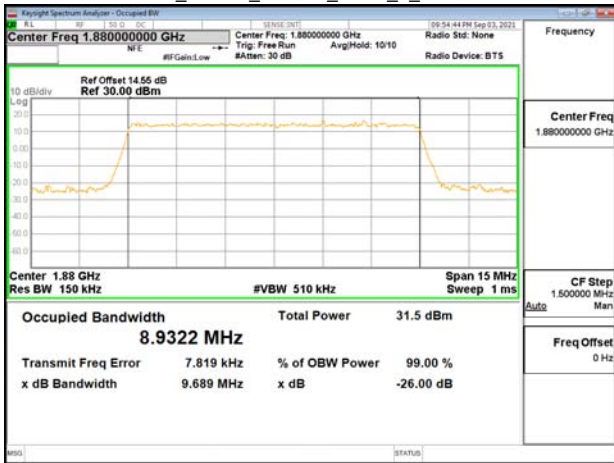
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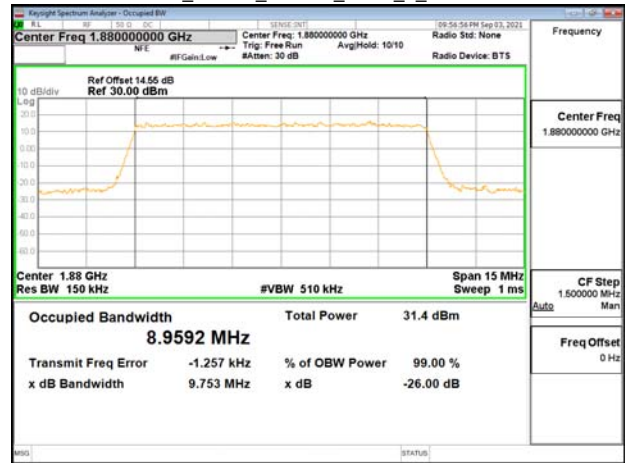
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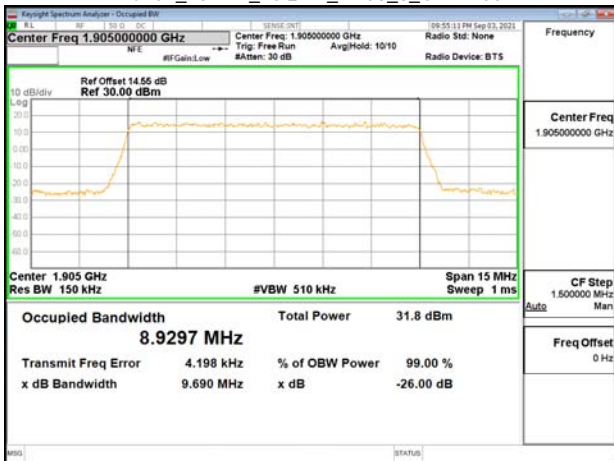
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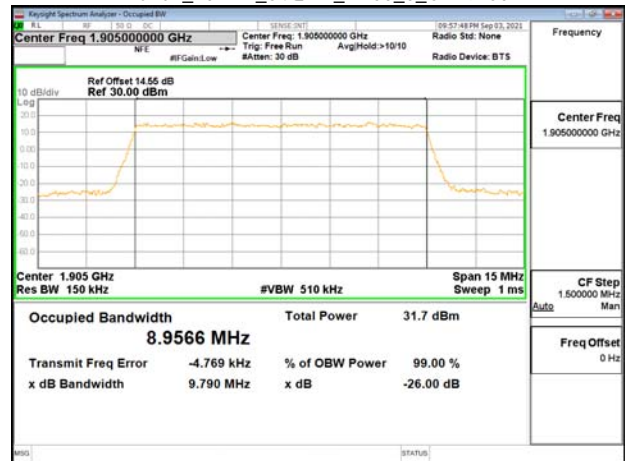
Band2_10MHz_64QAM_RB50_0_CH18900



Band2_10MHz_16QAM_RB50_0_CH19150



Band2_10MHz_64QAM_RB50_0_CH19150

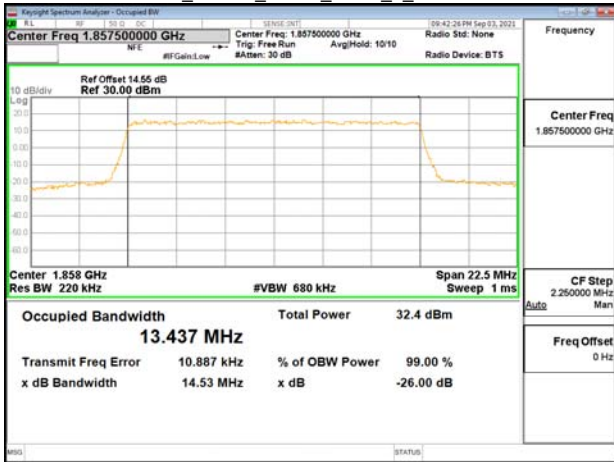


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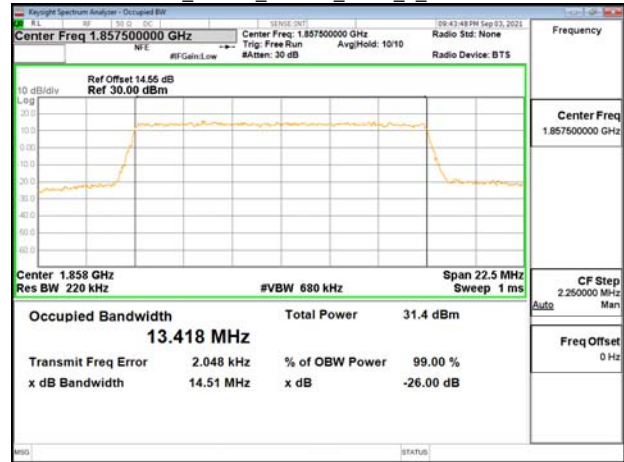
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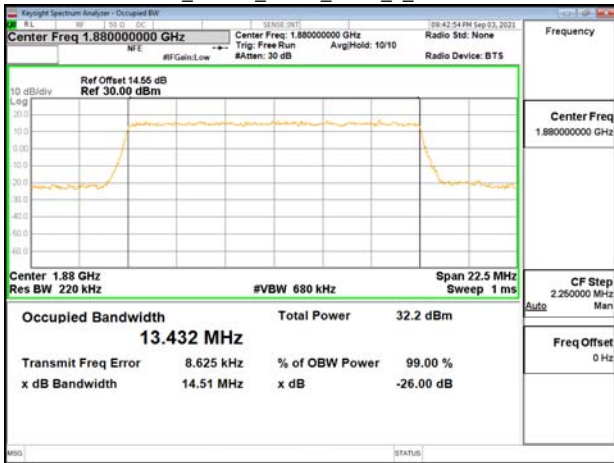
Band2_15MHz_QPSK_RB75_0_CH18675



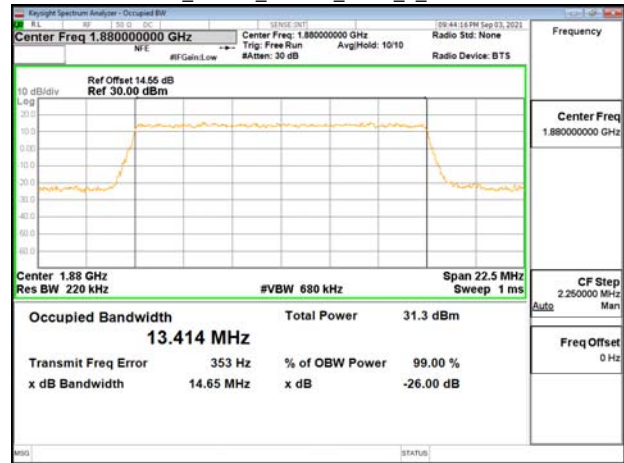
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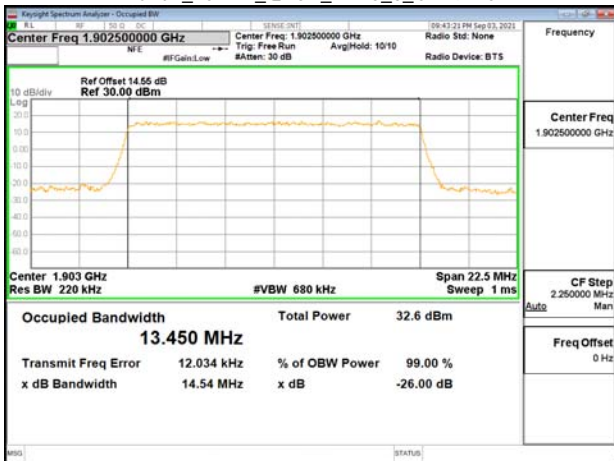
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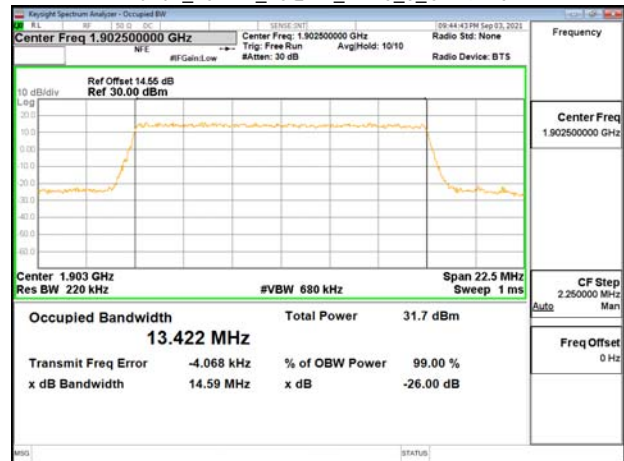
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Band2_15MHz_QPSK_RB75_0_CH19125



Band2_15MHz_16QAM_RB75_0_CH19125

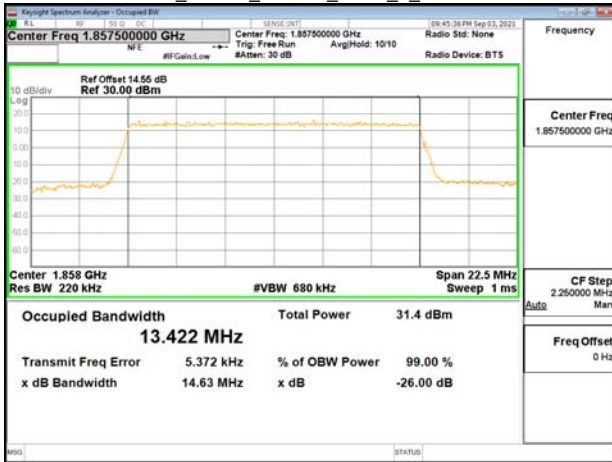


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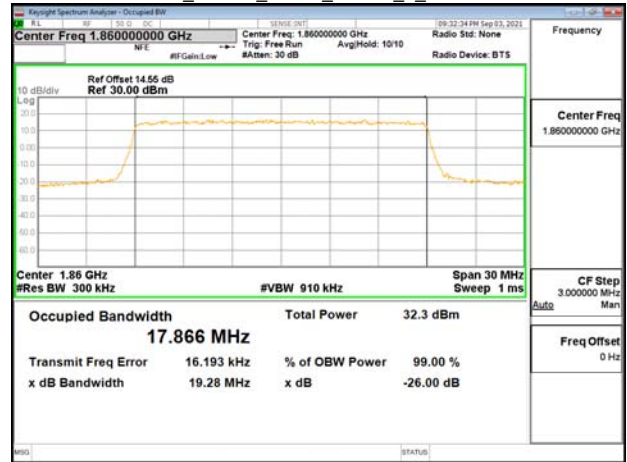
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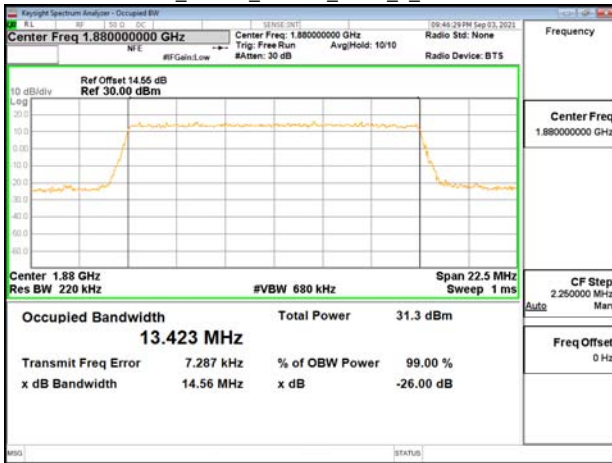
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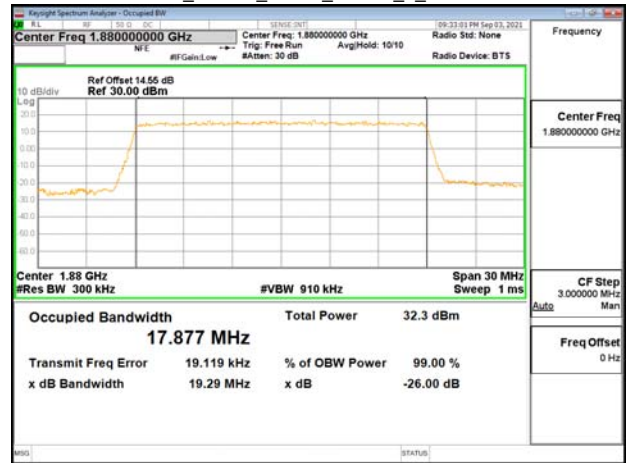
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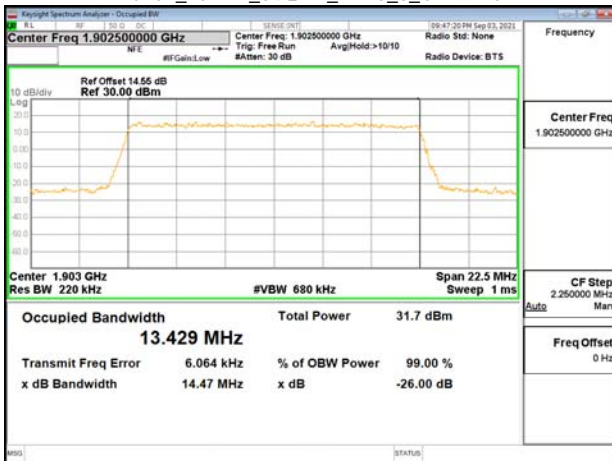
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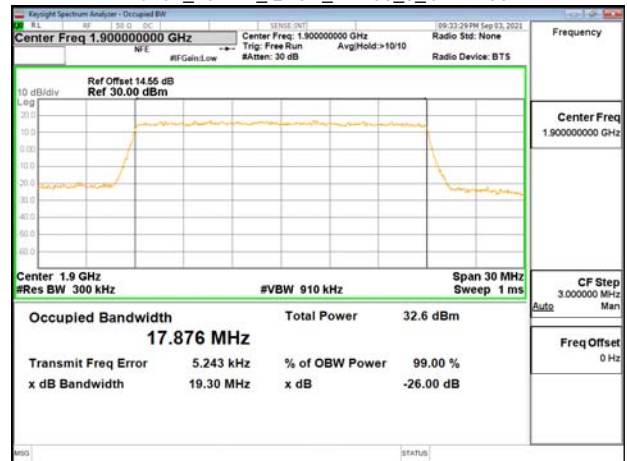
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Band2_15MHz_64QAM_RB75_0_CH19125



Band2_20MHz_QPSK_RB100_0_CH19100

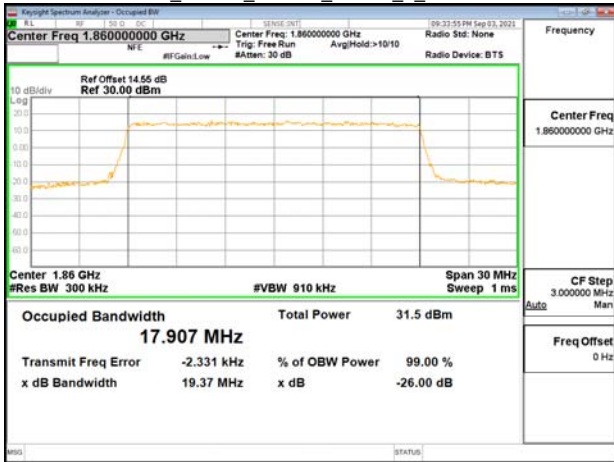


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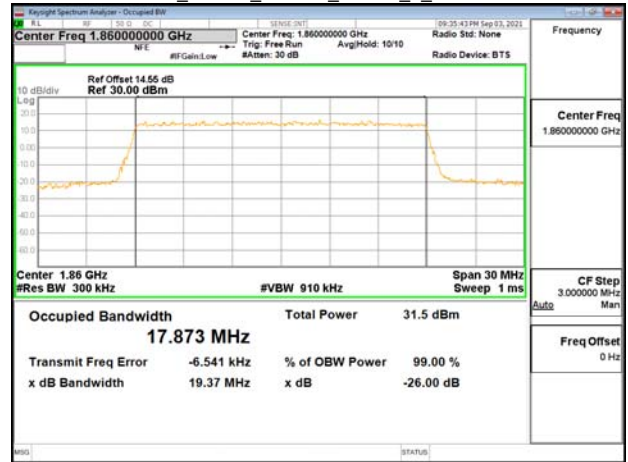
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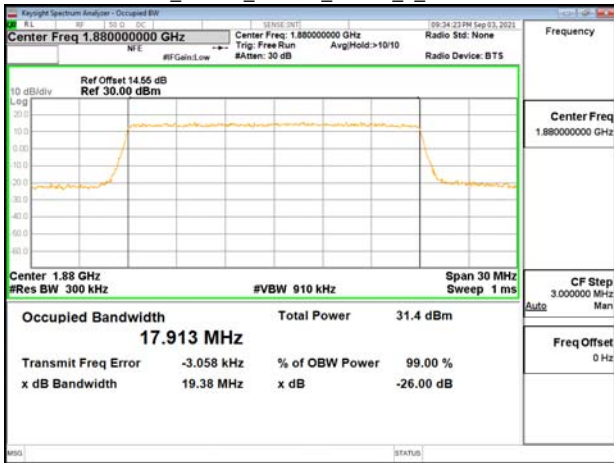
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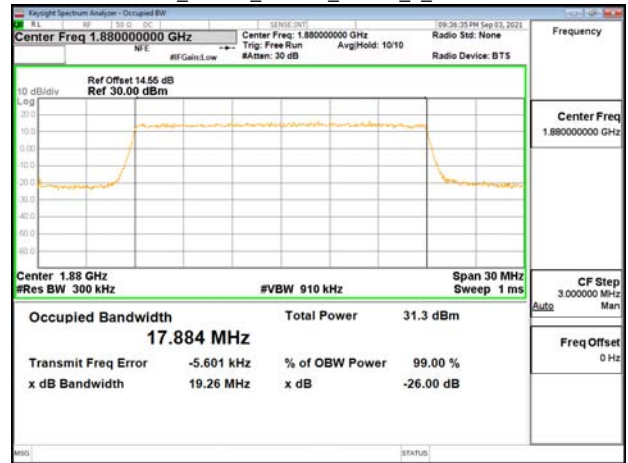
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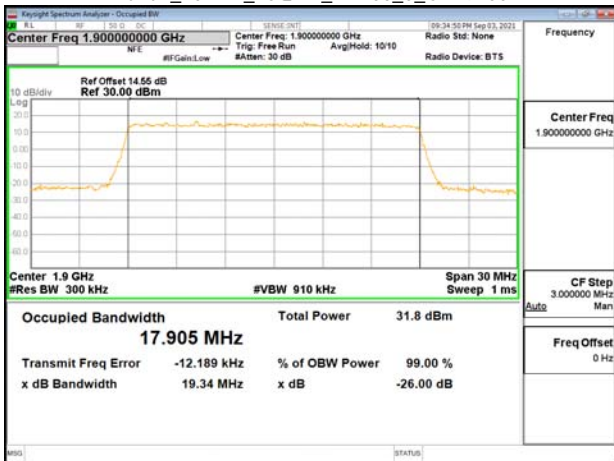
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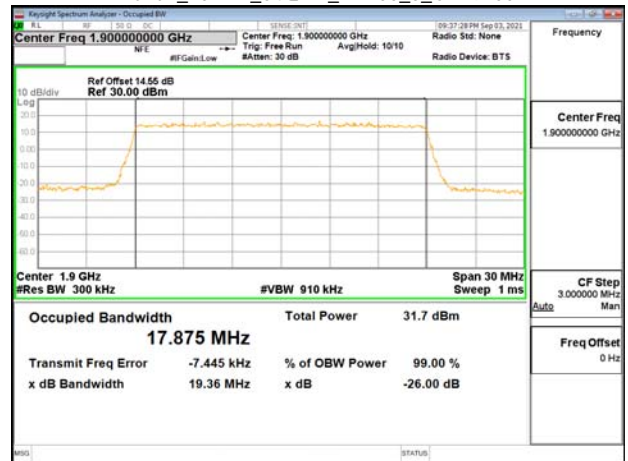
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Band2_20MHz_16QAM_RB100_0_CH19100



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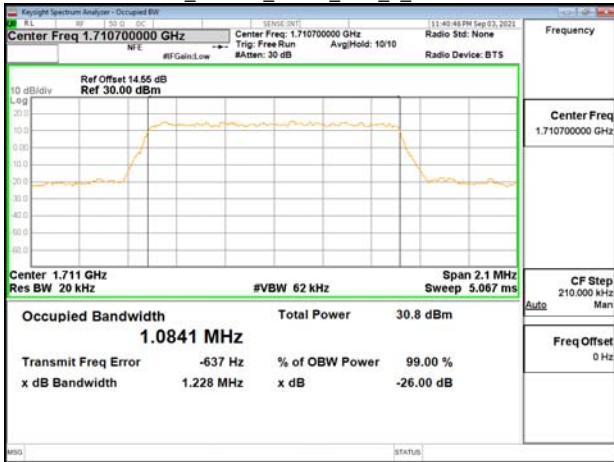


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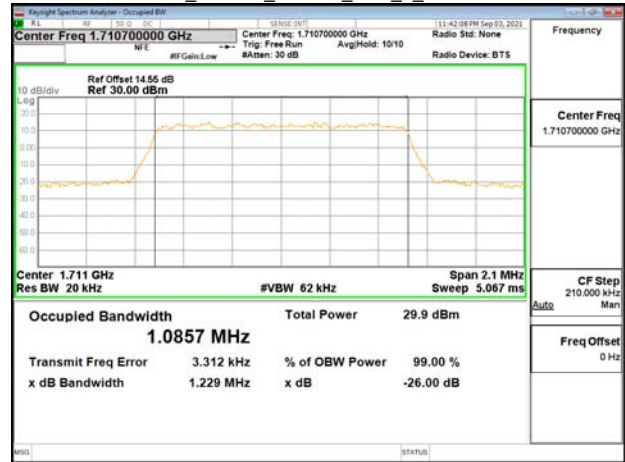
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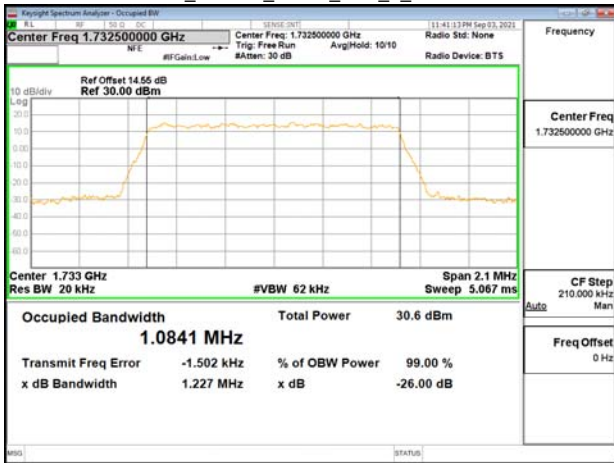
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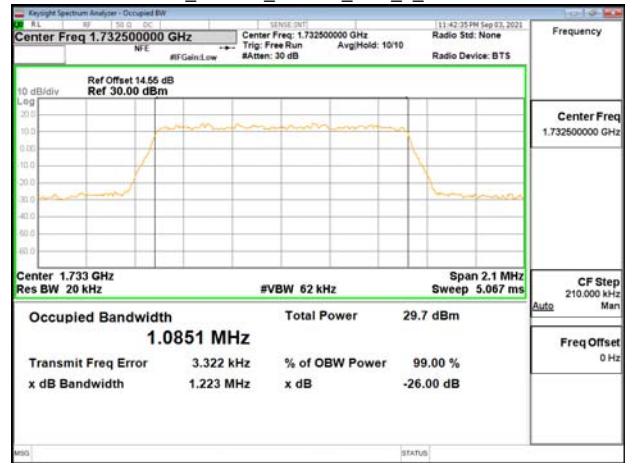
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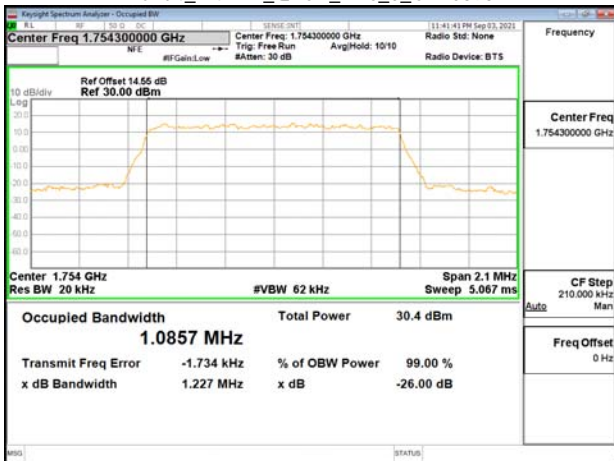
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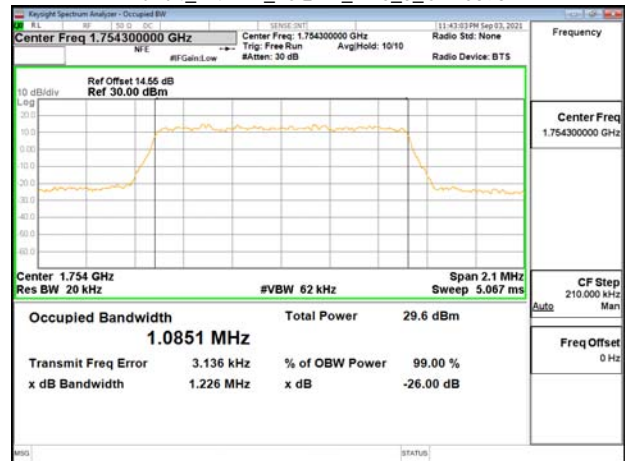
Band4_1.4MHz_16QAM_RB6_0_CH20175



Band4_1.4MHz_QPSK_RB6_0_CH20393



Band4_1.4MHz_16QAM_RB6_0_CH20393

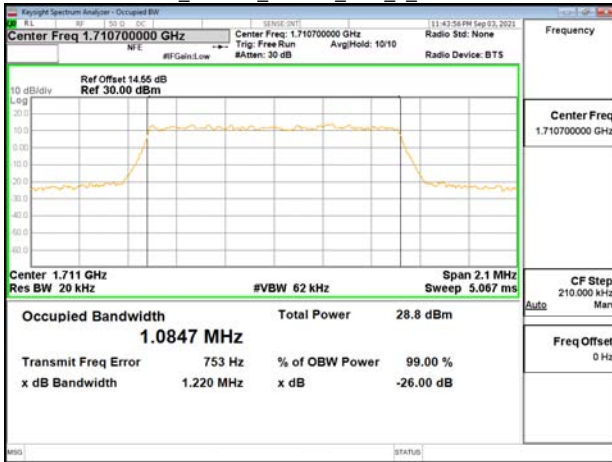


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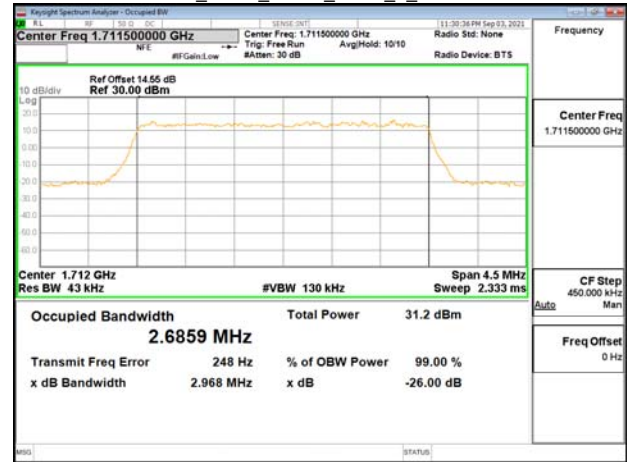
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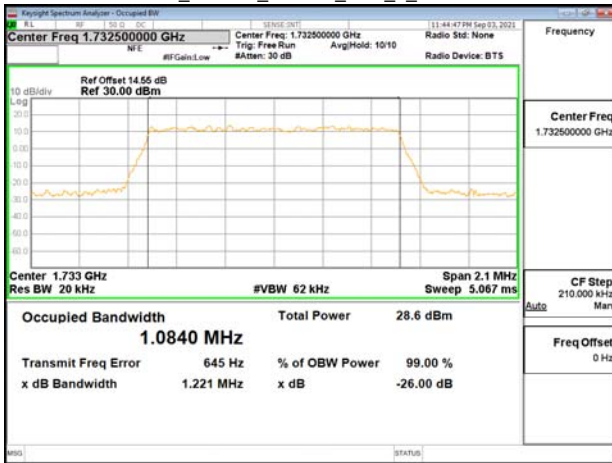
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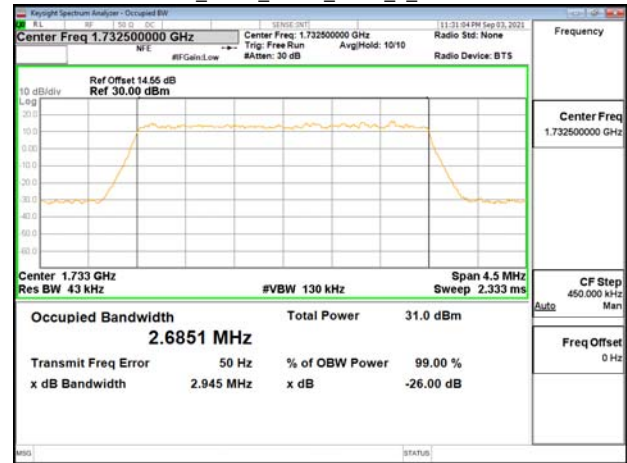
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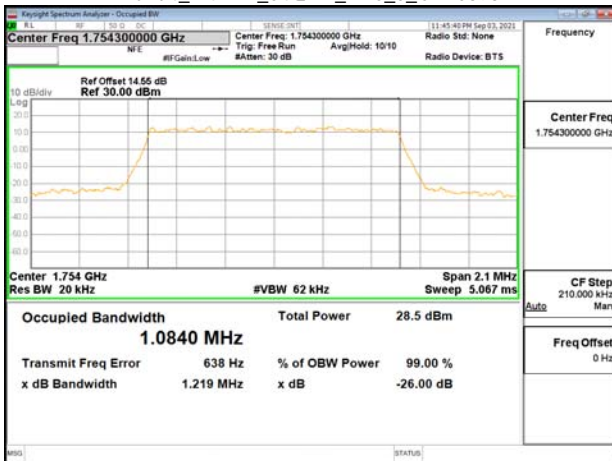
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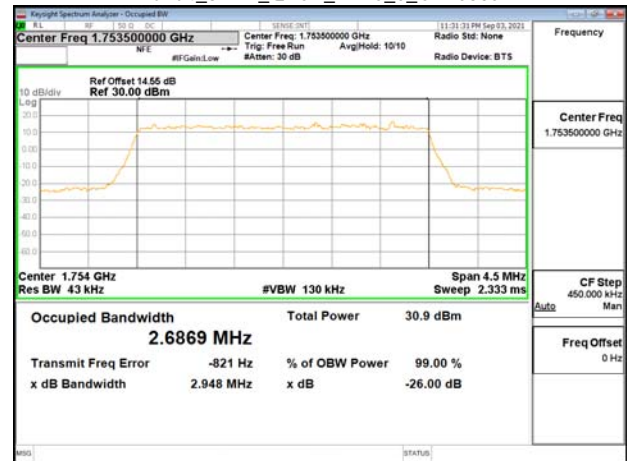
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Band4_1.4MHz_64QAM_RB6_0_CH20393



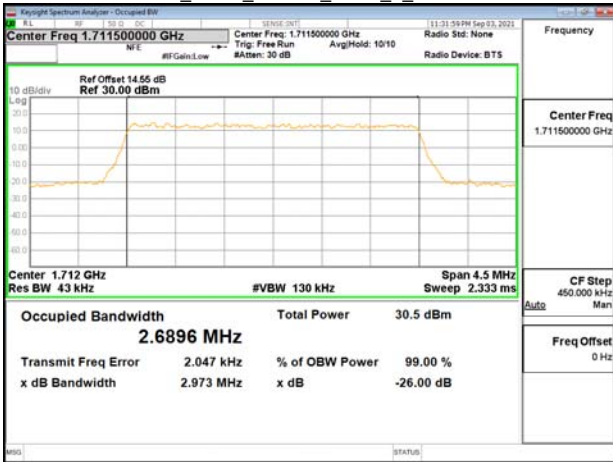
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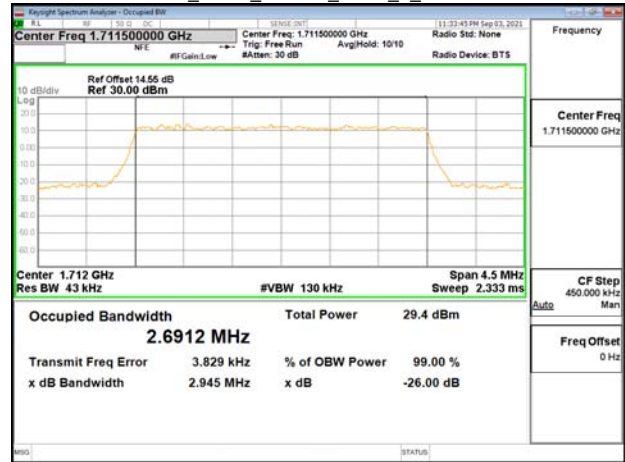
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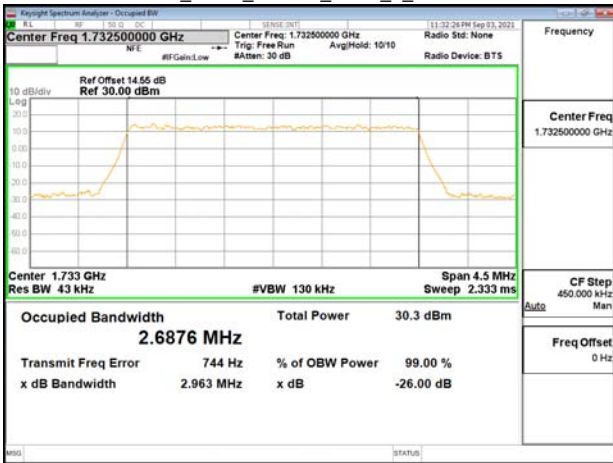
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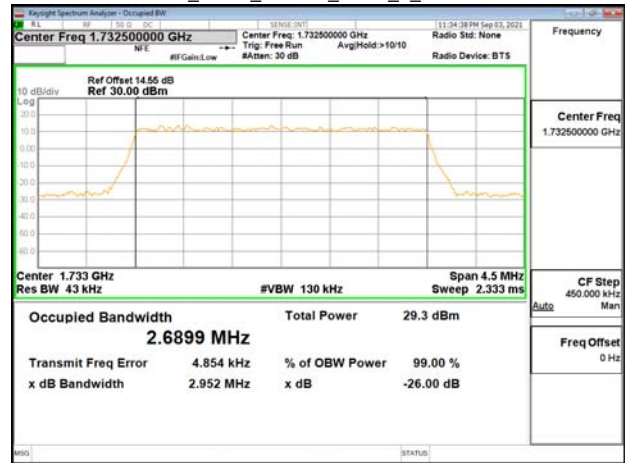
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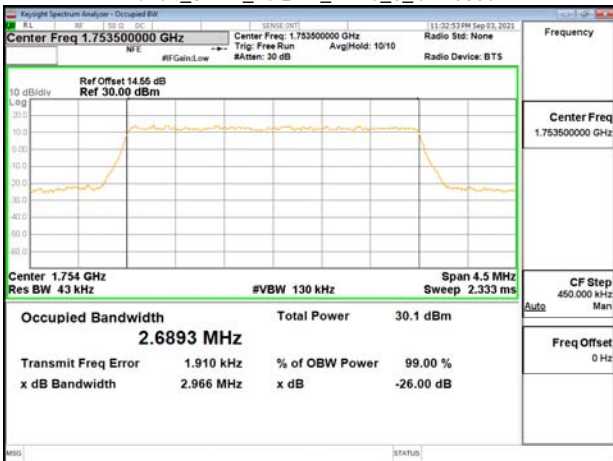
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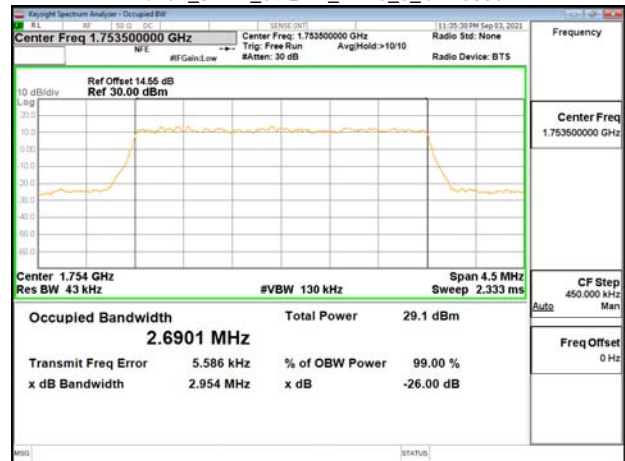
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Band4_3MHz_16QAM_RB15_0_CH20385



Band4_3MHz_64QAM_RB15_0_CH20385

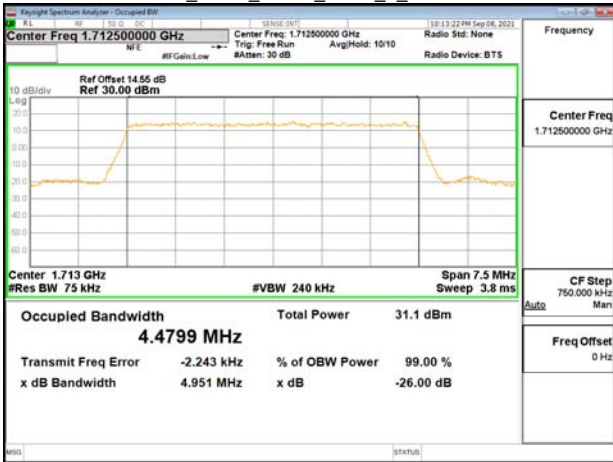


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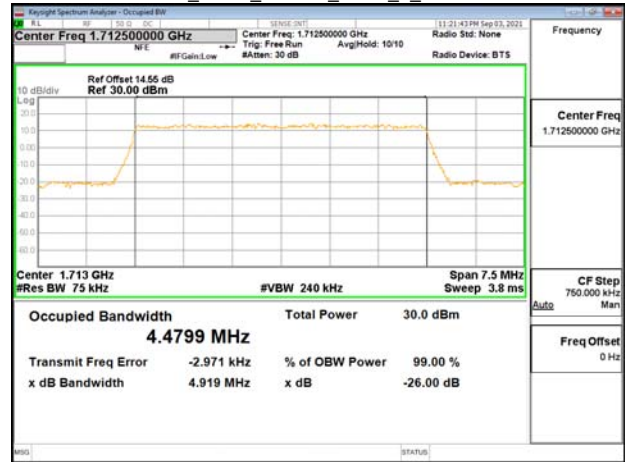
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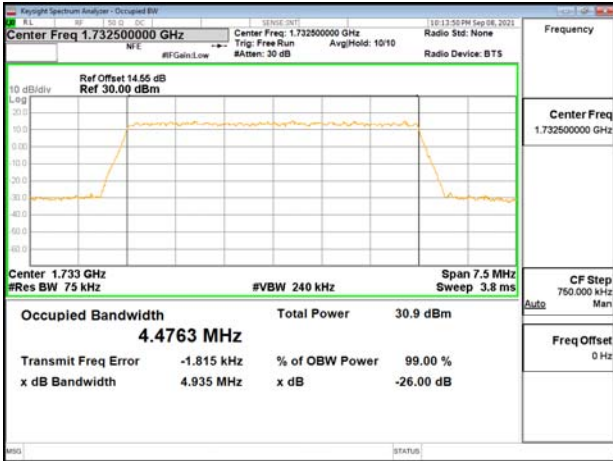
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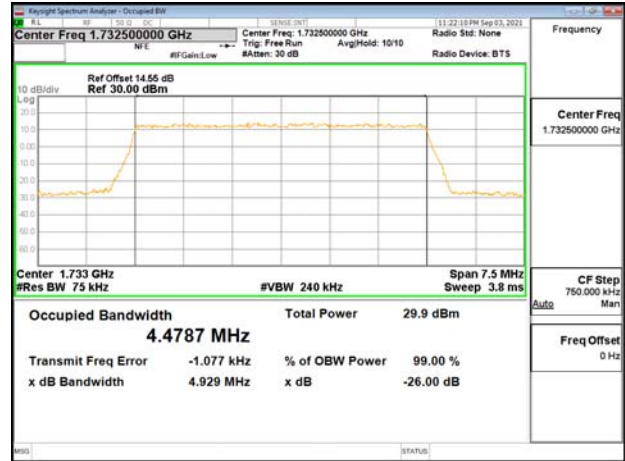
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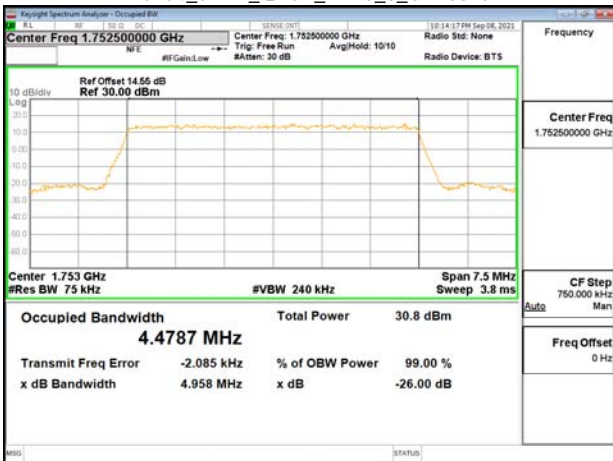
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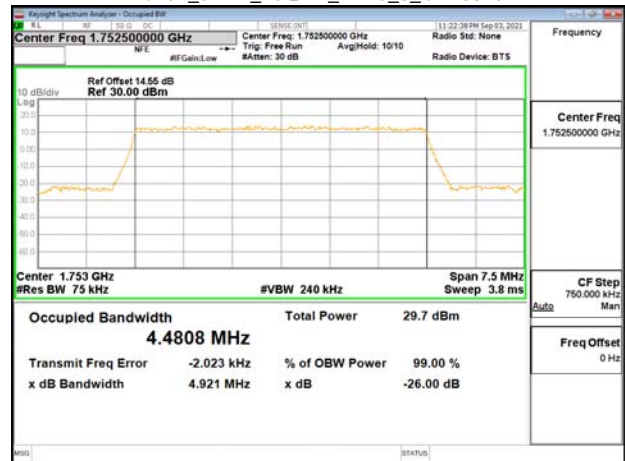
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Band4_5MHz_16QAM_RB25_0_CH20375

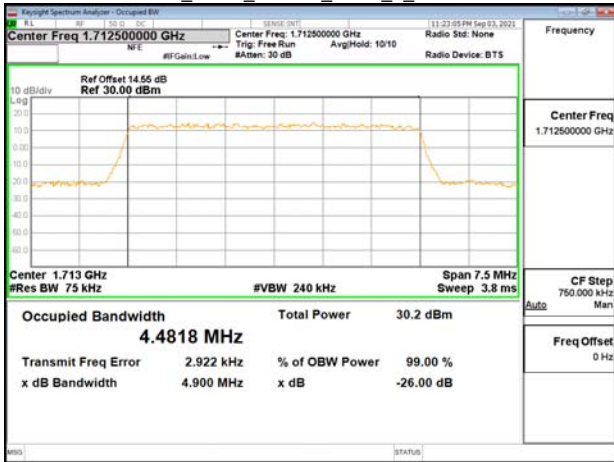


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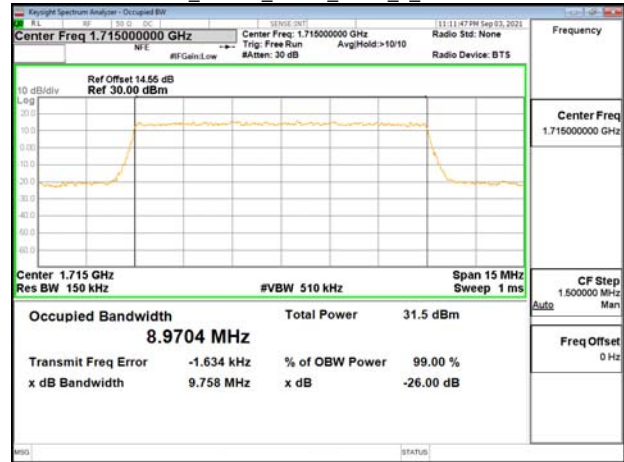
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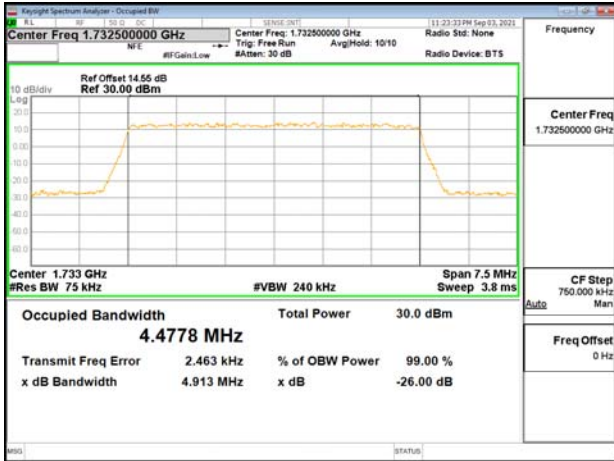
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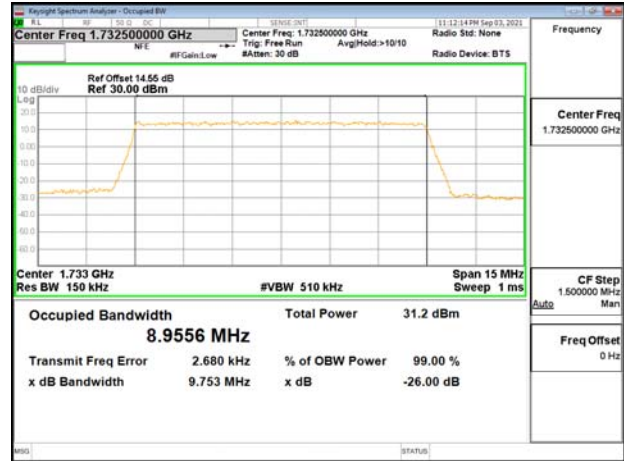
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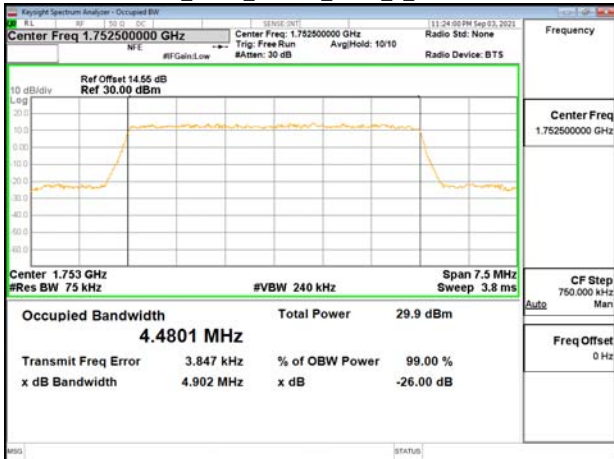
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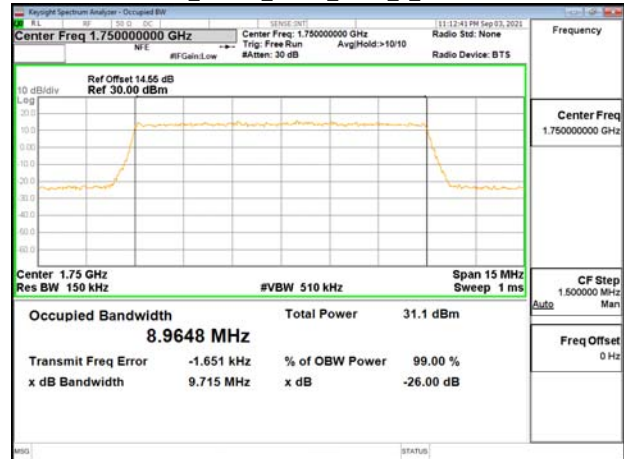
Band4_10MHz_QPSK_RB50_0_CH20175



Band4_5MHz_64QAM_RB25_0_CH20375



Band4_10MHz_QPSK_RB50_0_CH20350

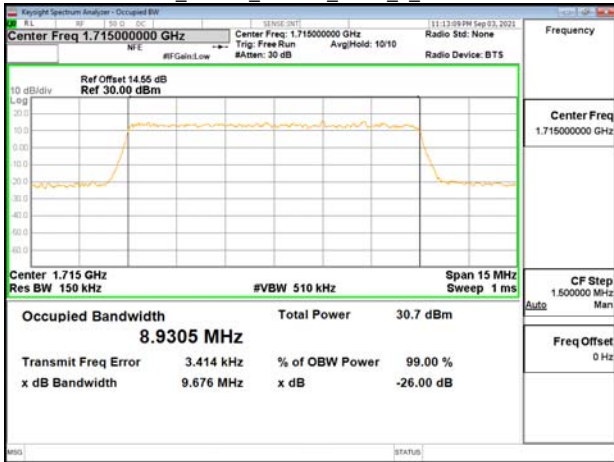


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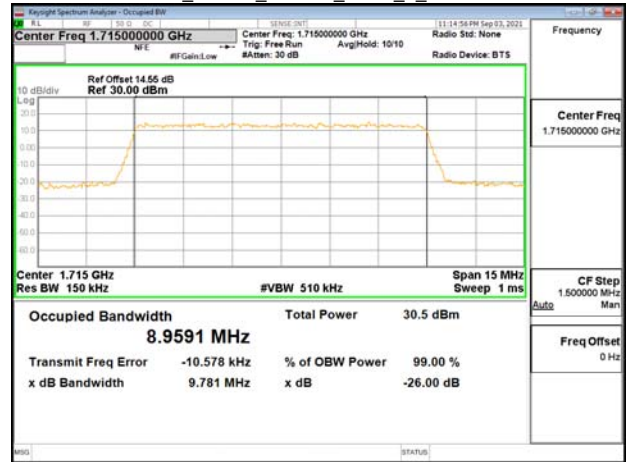
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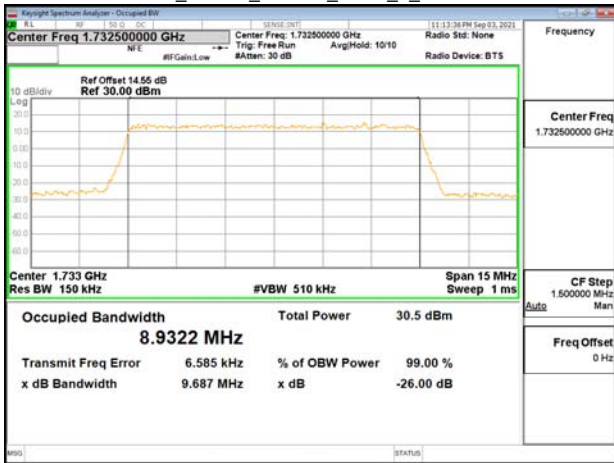
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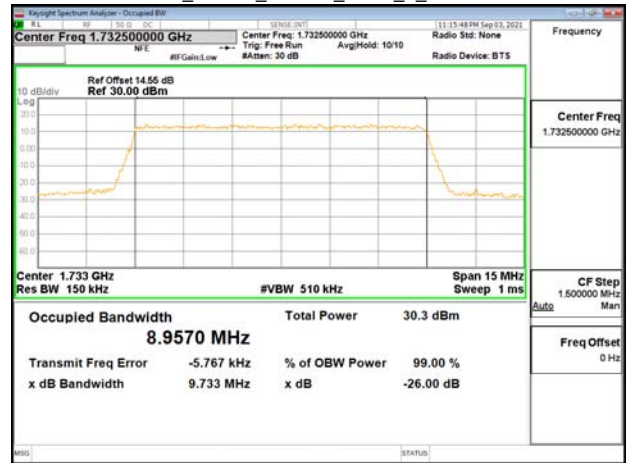
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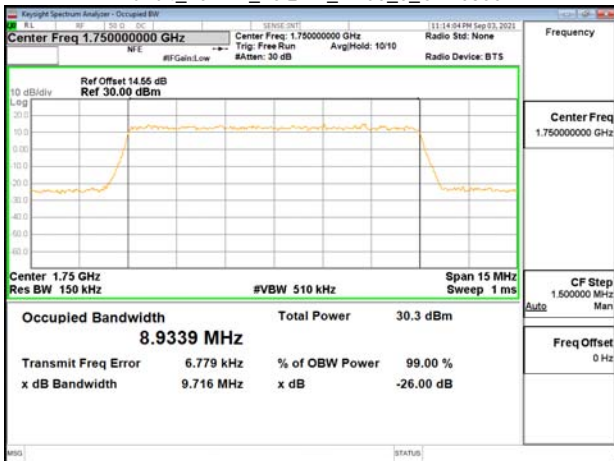
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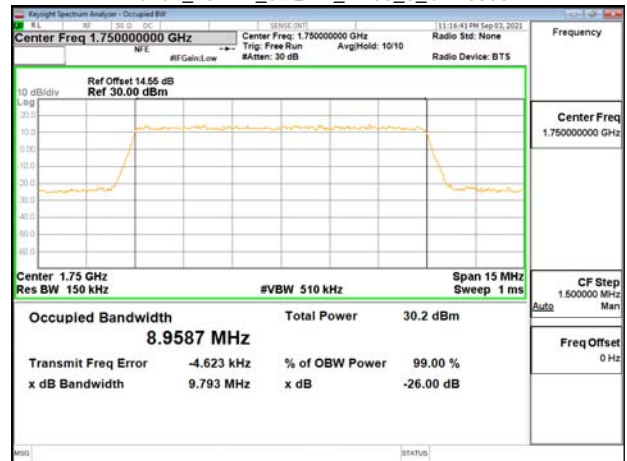
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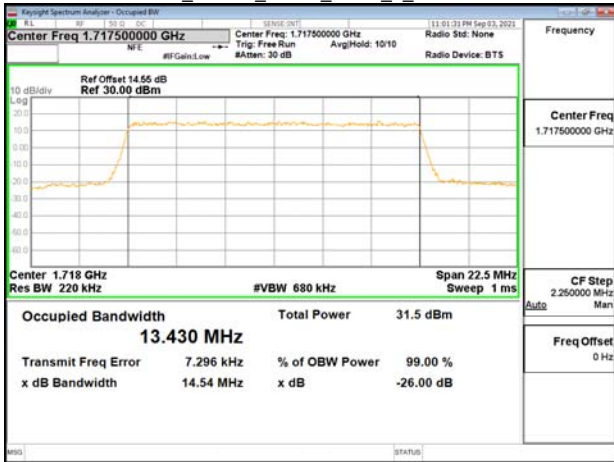


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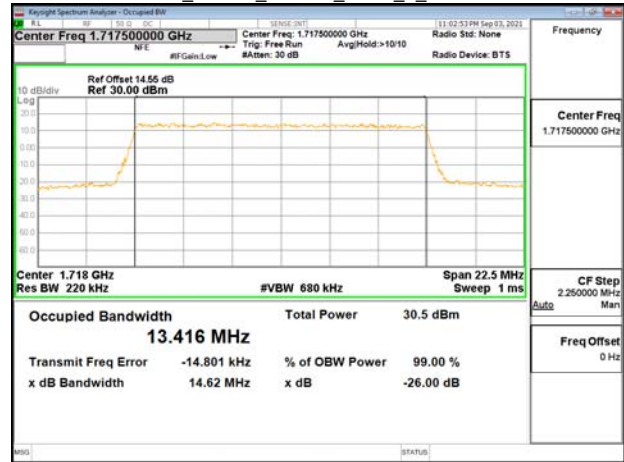
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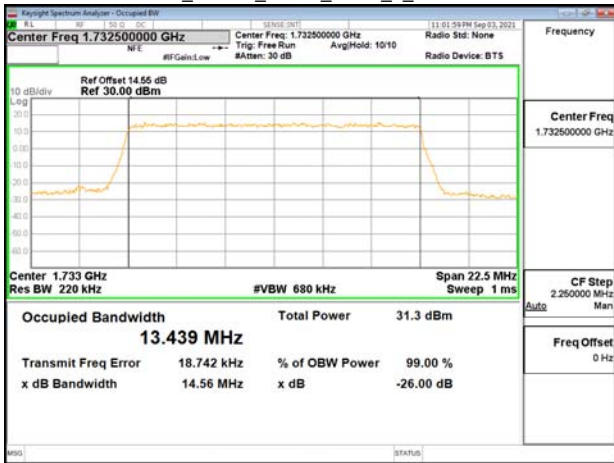
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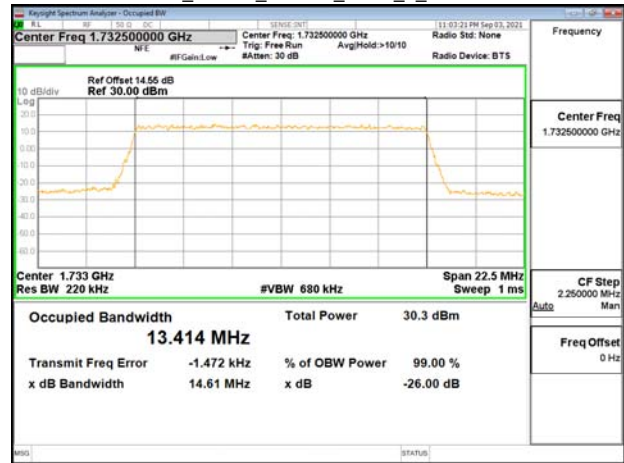
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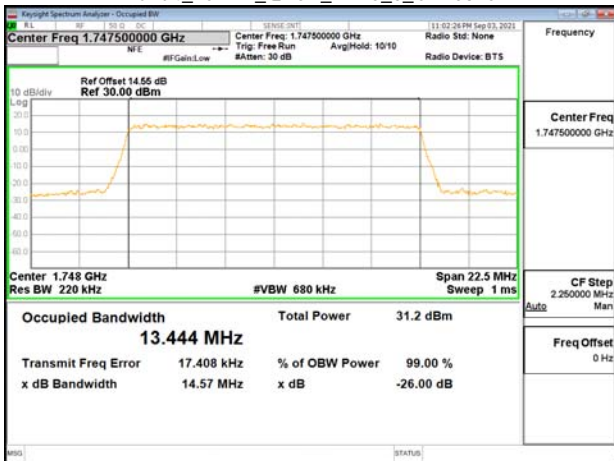
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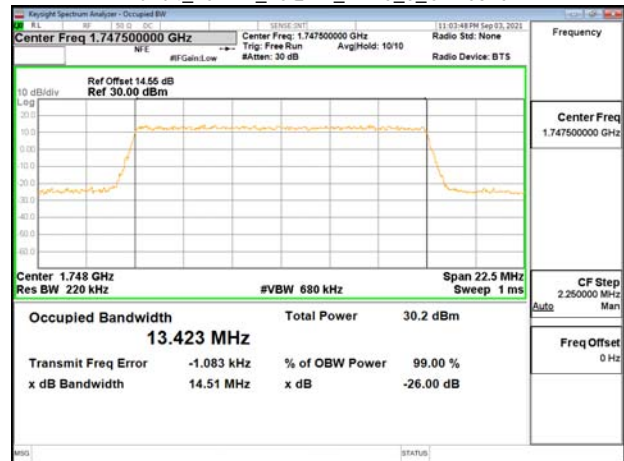
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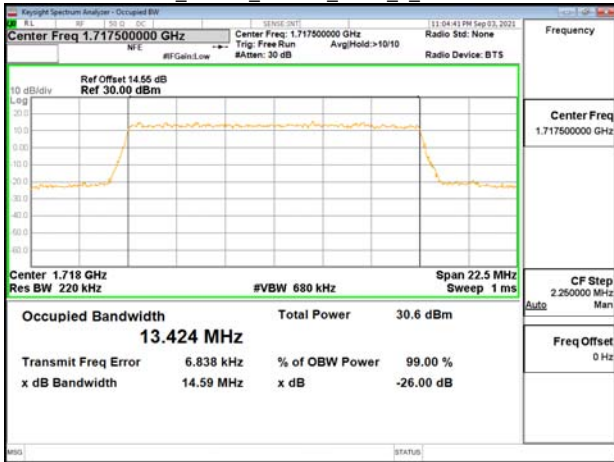


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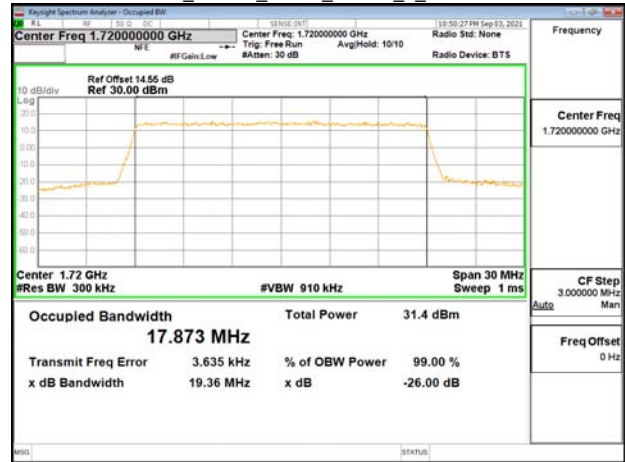
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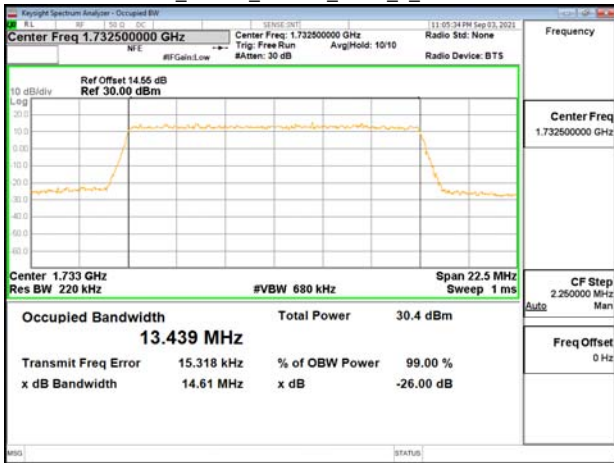
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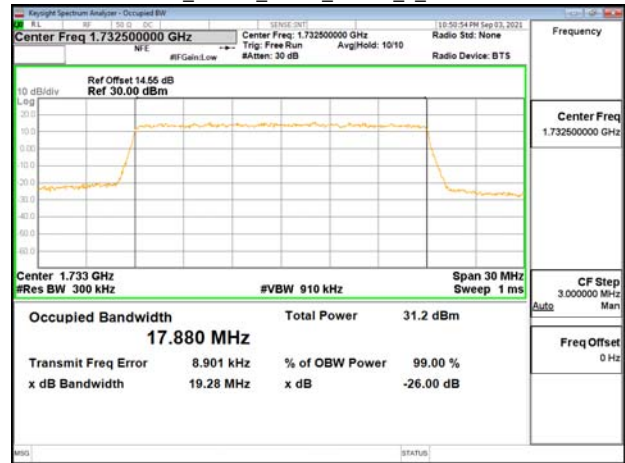
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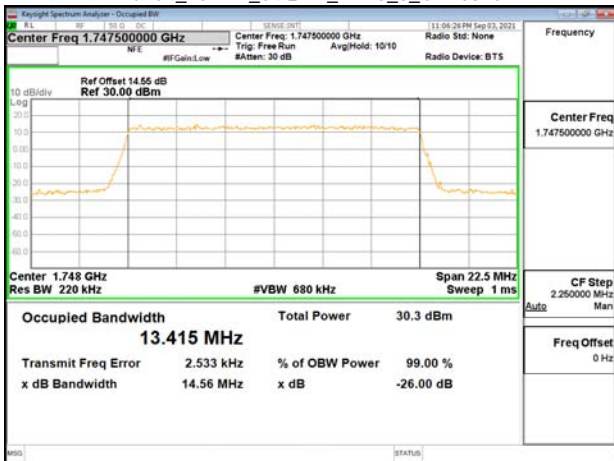
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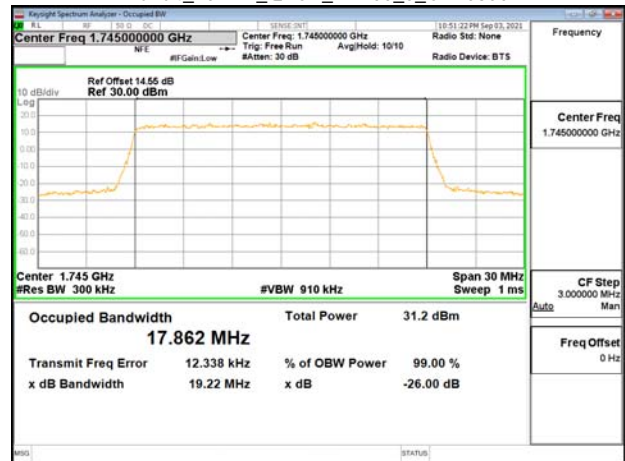
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Band4_15MHz_64QAM_RB75_0_CH20325



Band4_20MHz_QPSK_RB100_0_CH20300

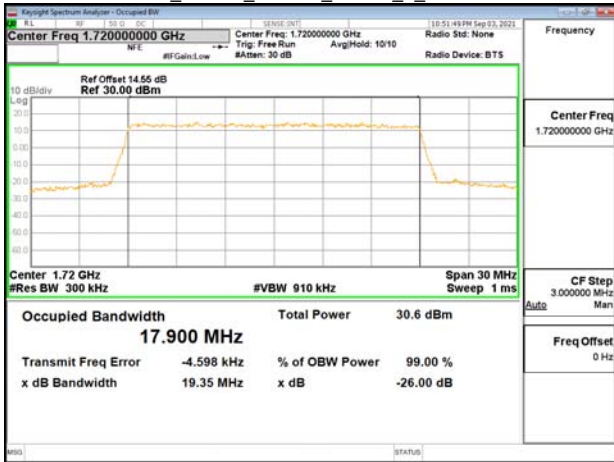


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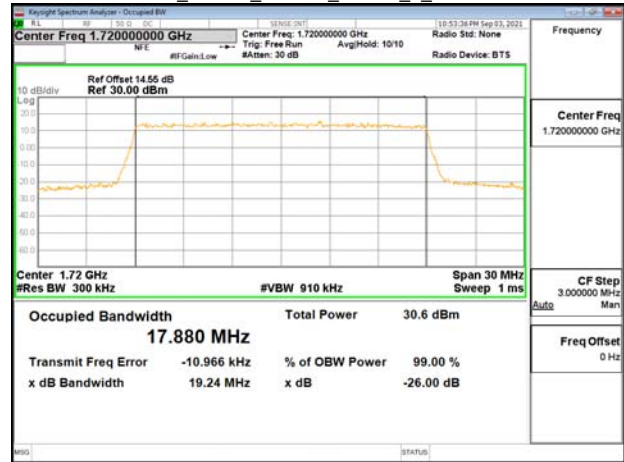
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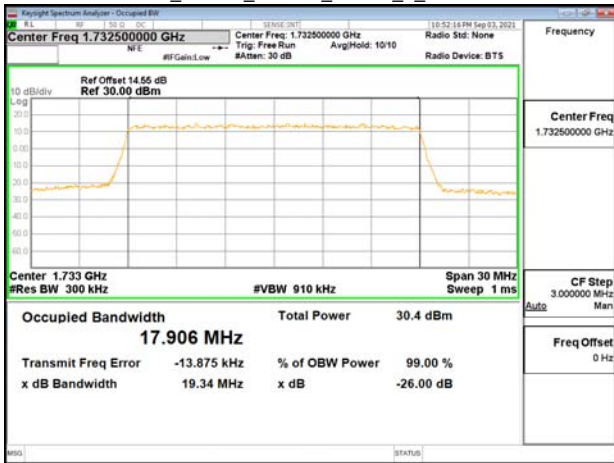
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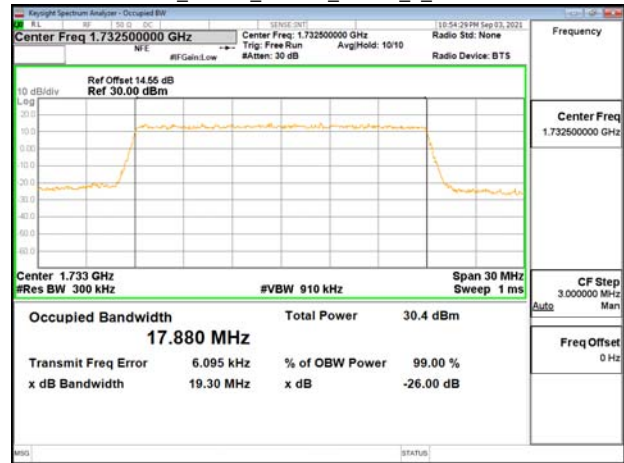
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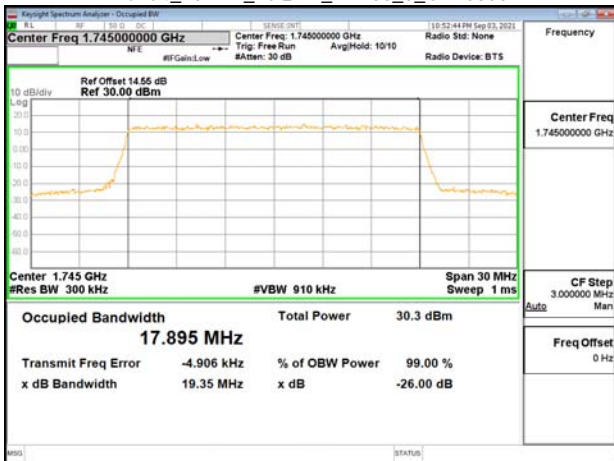
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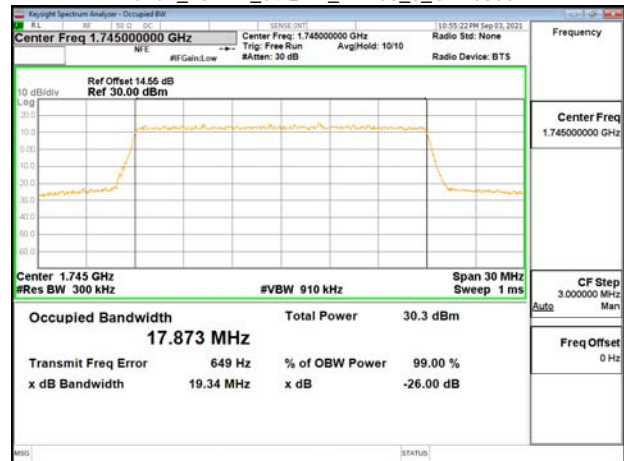
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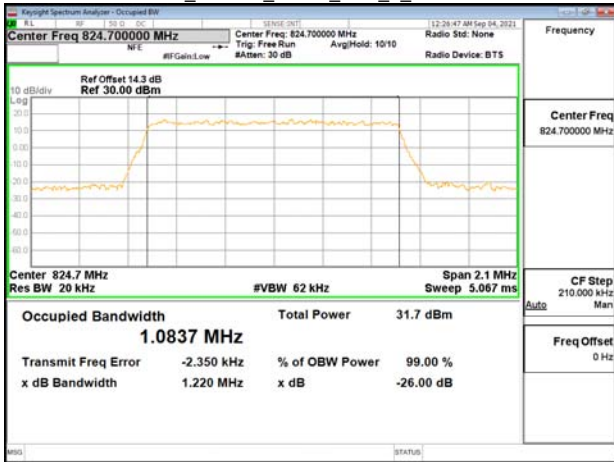


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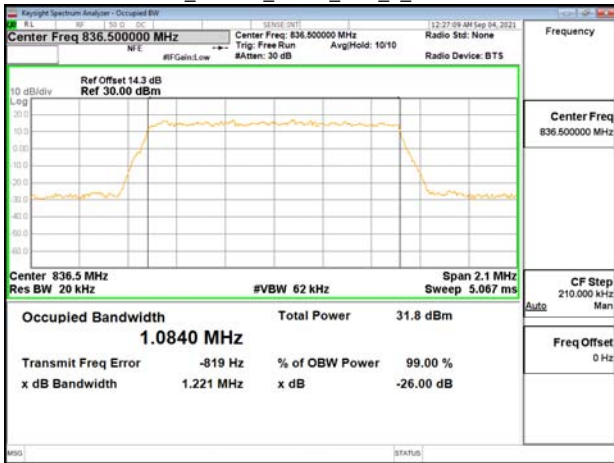
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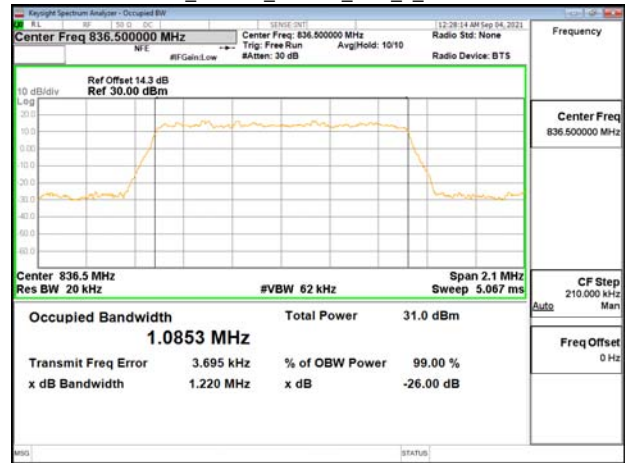
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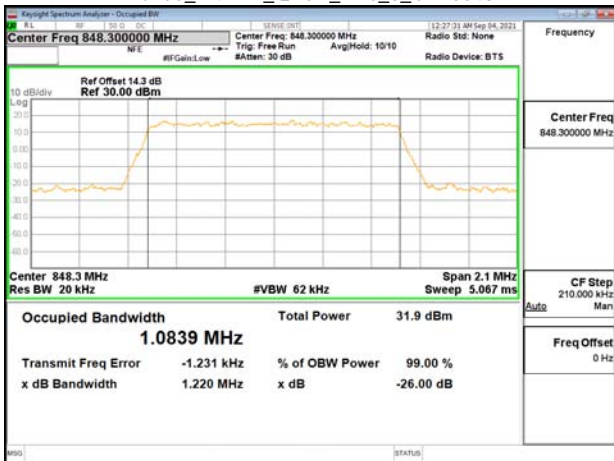
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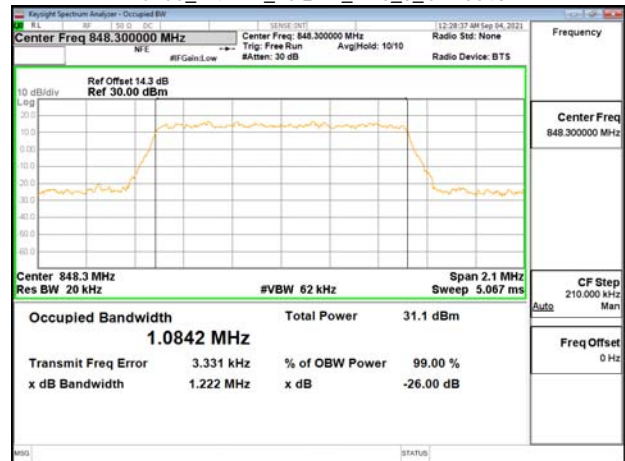
Band5_1.4MHz_16QAM_RB6_0_CH20525



Band5_1.4MHz_QPSK_RB6_0_CH20643



Band5_1.4MHz_16QAM_RB6_0_CH20643

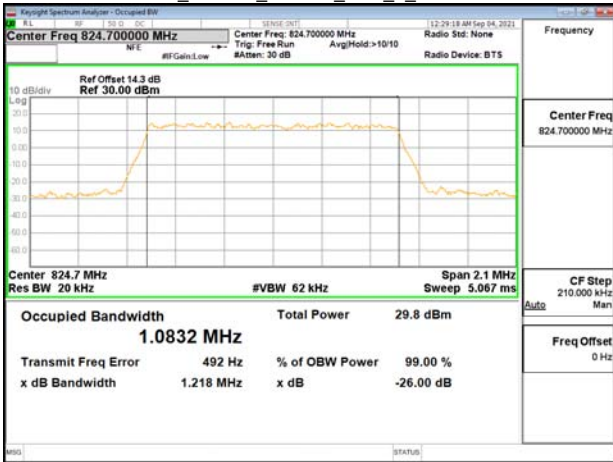


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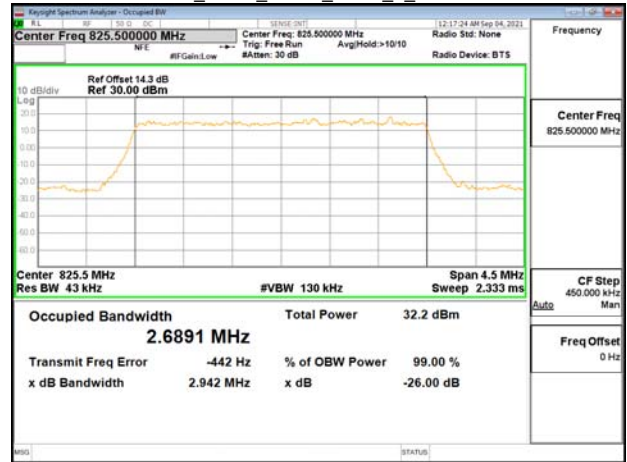
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Band5_1.4MHz_64QAM_RB6_0_CH20407



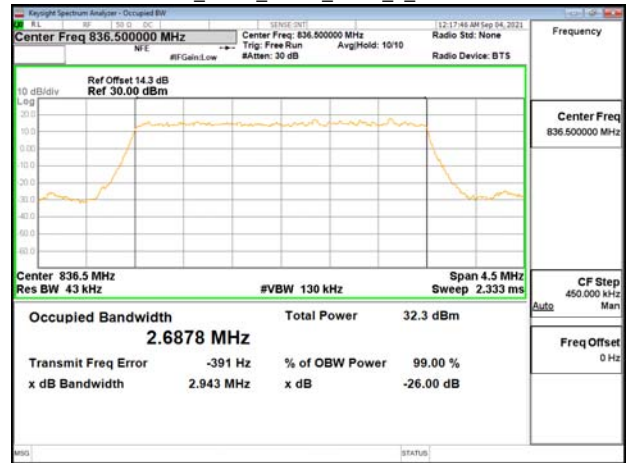
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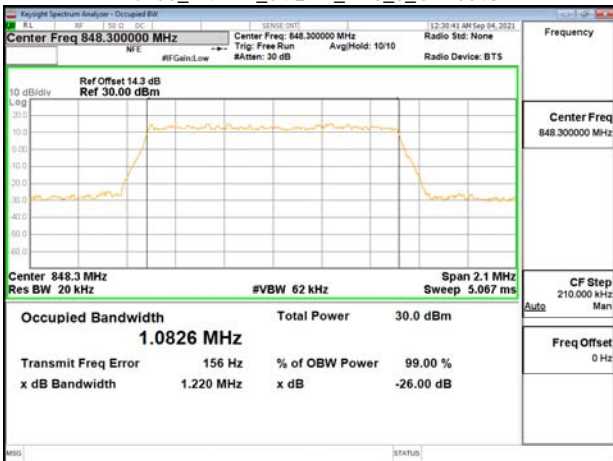
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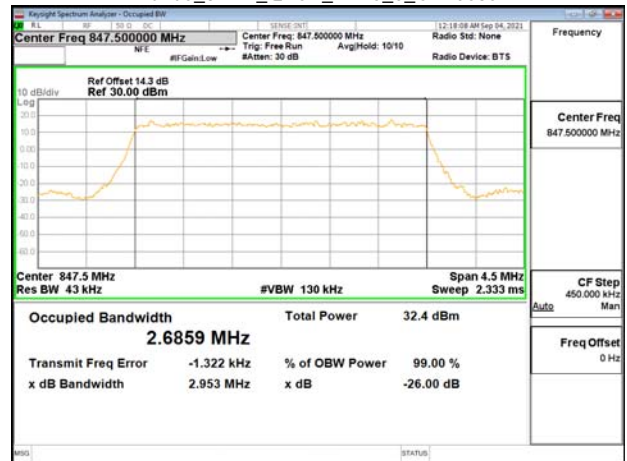
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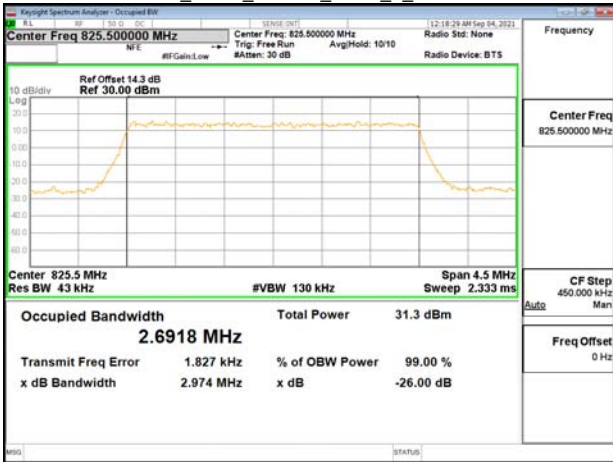
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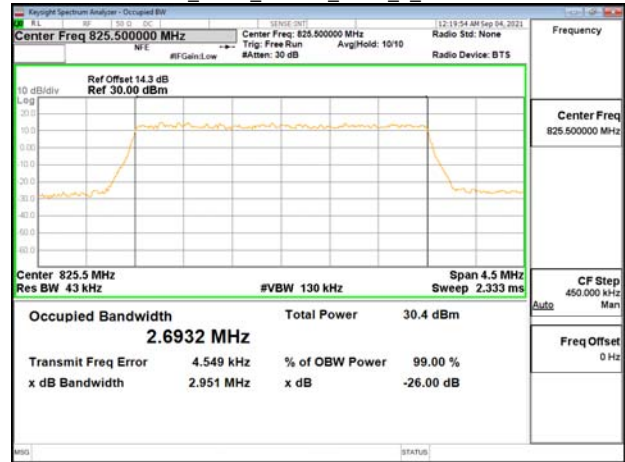
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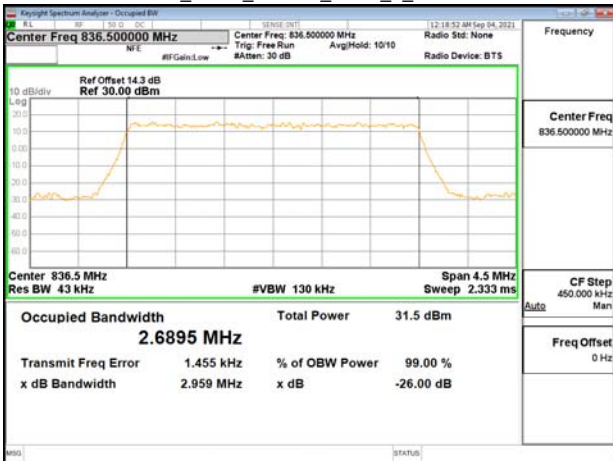
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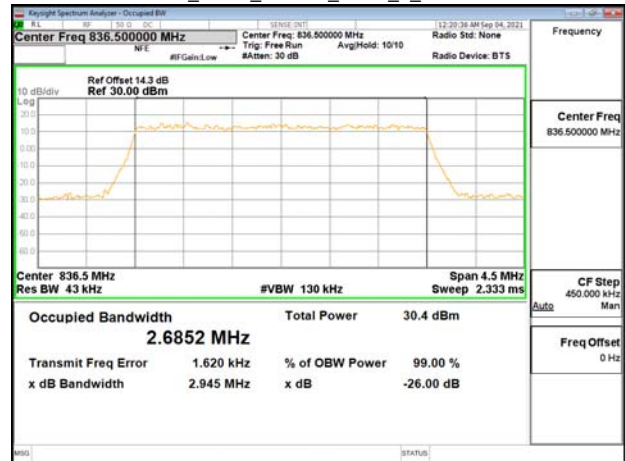
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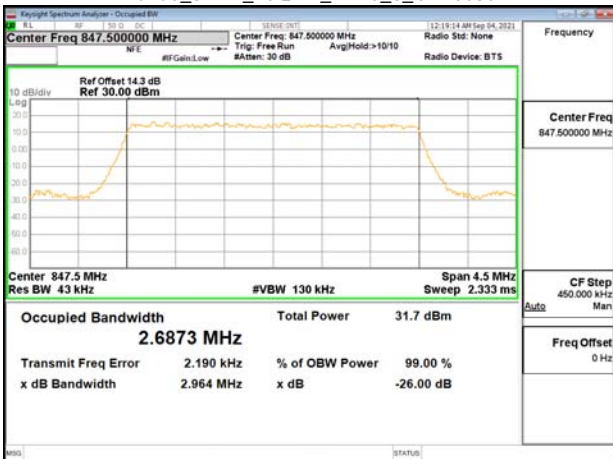
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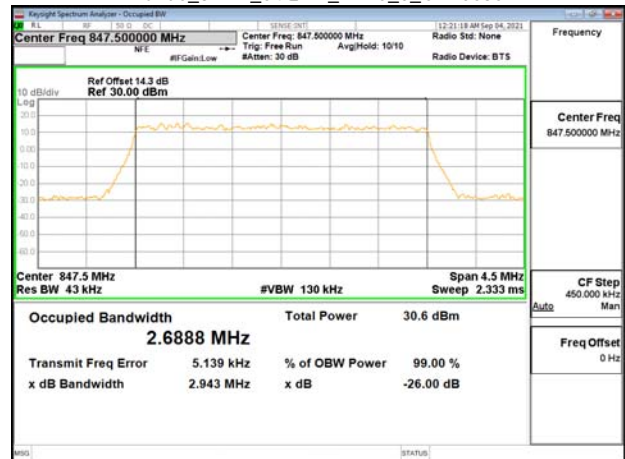
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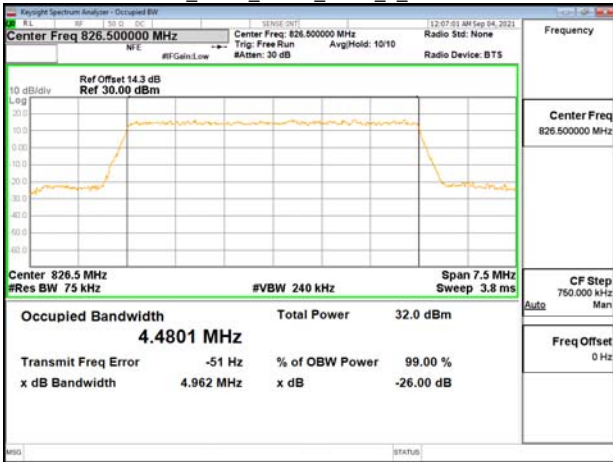


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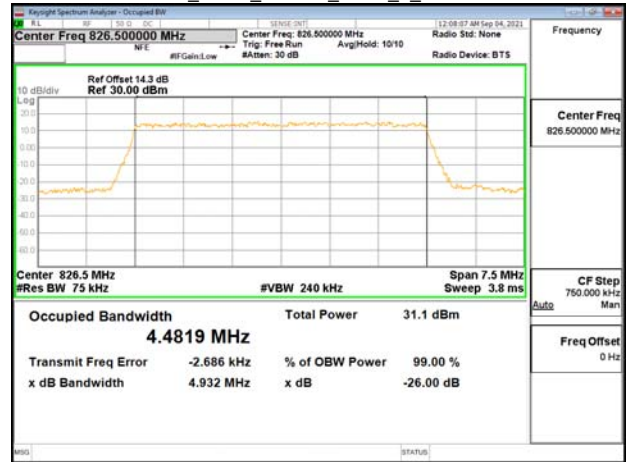
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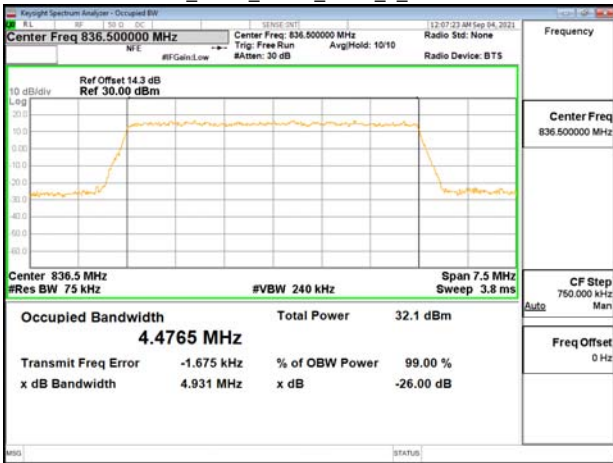
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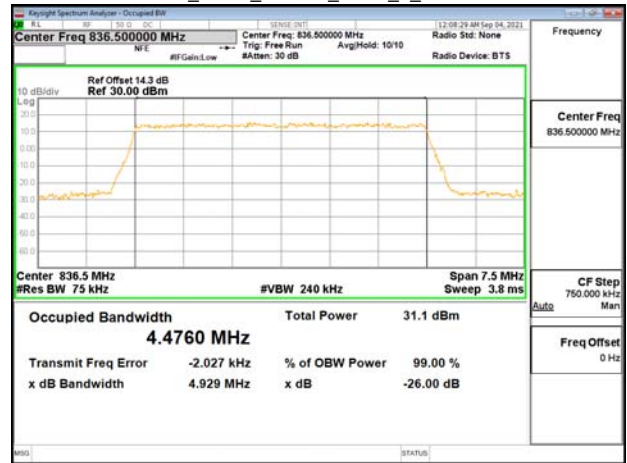
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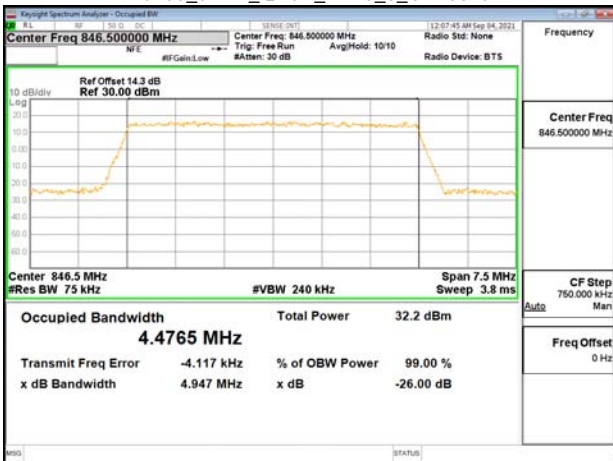
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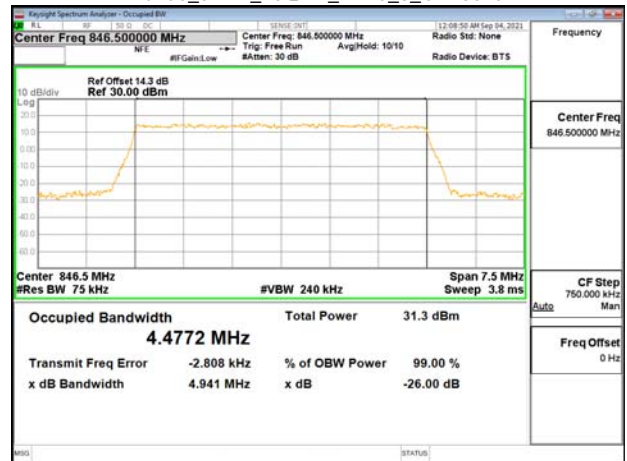
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Band5_5MHz_QPSK_RB25_0_CH20625



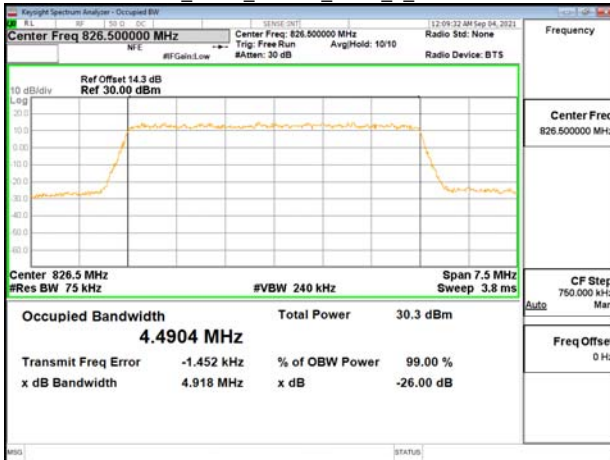
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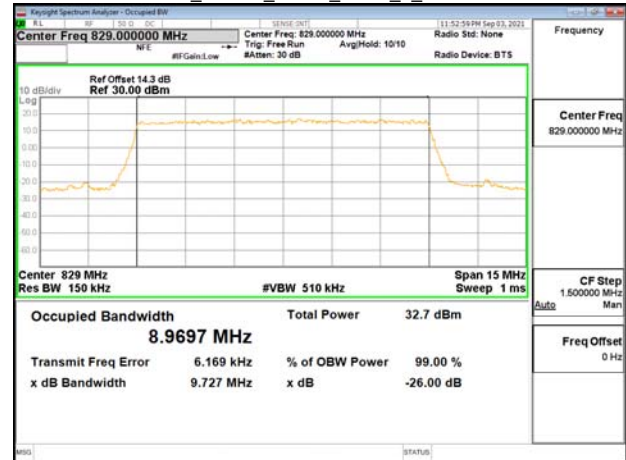
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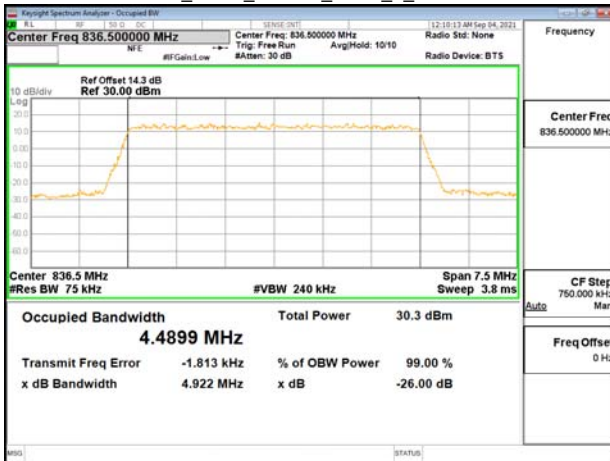
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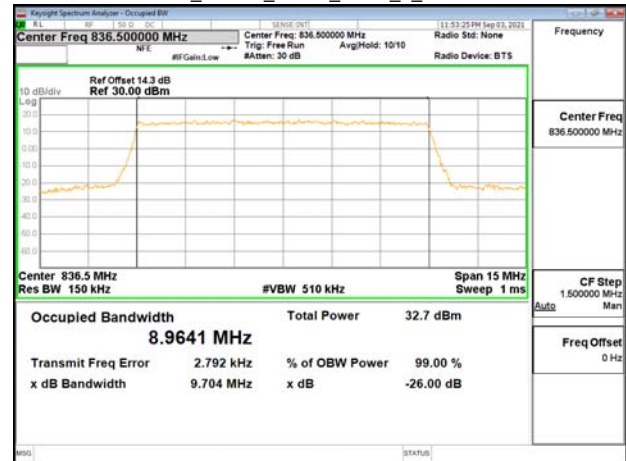
Band5_10MHz_QPSK_RB50_0_CH20450



Band5_5MHz_64QAM_RB25_0_CH20525



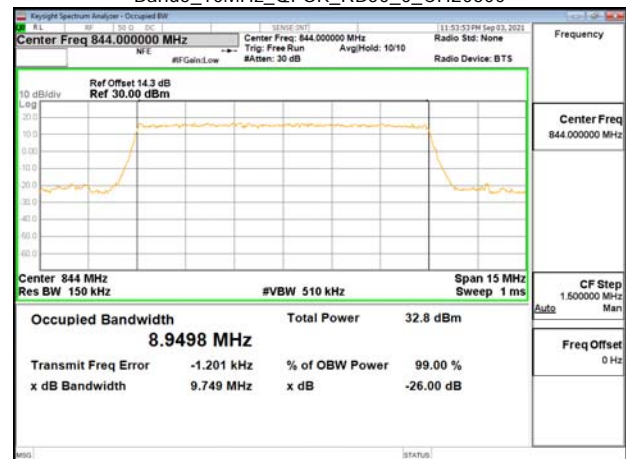
Band5_10MHz_QPSK_RB50_0_CH20525



Band5_5MHz_64QAM_RB25_0_CH20625



Band5_10MHz_QPSK_RB50_0_CH20600



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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