

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

Product Name: ASUS Phone (Mobile Phone)

Brand Name: ASUS

Model No.: ASUS_I003D

Model Difference: N/A

Report Number: ER/2020/30083

FCC ID MSQI003D

IC: 3568A-I003D

FCC Rule Part: 2, 22H & 24E & 27 C & 90S

ISED Rule: RSS-130, 132, 133, 139, 195, 199

Issue Date: Sep. 04, 2020

Date of Test: Jun. 01, 2020 ~ Jul. 21, 2020

Date of EUT Received: May 06, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

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

Approved By:

Jazz Huang

Jazz Huang / Asst. Supervisor



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	Remark
ER/2020/30083	Rev.00	Original.	Sep. 04, 2020	Revised By: Violetta Tang

Note:

1、 Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

General:

Product Name:	ASUS Phone (Mobile Phone)	
Brand Name:	ASUS	
Model No.:	ASUS_I003D	
Model Difference:	N/A	
Hardware Version:	R2.0B	
Software Version:	Android Q	
AJ Dongle:	Model No.: F370002, Supplier: MEILU	
Fan Dongle:	Model No.: I003, Supplier: ASUS	
USB Cable:	Model No.: LA9U2015-CS-R, Supplier: ASAP	
Power Supply:	3.85Vdc from Rechargeable Li-polymer Battery or 5V / 9V / 12V / 15V / 20V from AC/DC Adapter	
	Battery:	Model No.: C11P1903, Supplier: SCUD
	Adapter:	Model No.: A299-200150U-US, Supplier: AOHAI
IMEI:	355306110093475 / 355306110093483 (2/3G Conducted) 355306110093970 / 355306110093988 (4G Conducted) 355306110093731 (2/3G Radiated) 355306110094390 (4G Radiated)	

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1.2 Operation Frequency Range

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

LTE Band	BW (MHz)	Operation Frequency (MHz)	LTE Band	BW (MHz)	Operation Frequency (MHz)
2	1.4	1850.7 - 1909.3	25	1.4	1850.7 - 1914.3
	3	1851.5 - 1908.5		3	1851.5 - 1913.5
	5	1852.5 - 1907.5		5	1852.5 - 1912.5
	10	1855.0 - 1905.0		10	1855.0 - 1910.0
	15	1857.5 - 1902.5		15	1857.5 - 1907.5
	20	1860.0 - 1900.0		20	1860.0 - 1905.0
4	1.4	1710.7 - 1754.3	26	1.4	824.7 - 848.3
	3	1711.5 - 1753.5		3	825.5 - 847.5
	5	1712.5 - 1752.5		5	826.5 - 846.5
	10	1715.0 - 1750.0		10	829.0 - 844.0
	15	1717.5 - 1747.5		15	831.5 - 841.5
	20	1720.0 - 1745.0		15	831.5 - 841.5
5	1.4	824.7 - 848.3	26 Part90	1.4	814.7 - 823.3
	3	825.5 - 847.5		3	815.5 - 822.5
	5	826.5 - 846.5		5	816.5 - 821.5
	10	829.0 - 844.0		10	819.0
7	5	2502.5 - 2567.5	30	5	2307.5 - 2312.5
	10	2505.0 - 2565.0		10	2310.0
12	5	2507.5 - 2562.5	38	5	2572.5 - 2617.5
	10	2510.0 - 2560.0		10	2575.0 - 2615.0
	15	2507.5 - 2562.5		15	2577.5 - 2612.5
	20	2510.0 - 2560.0		20	2580.0 - 2610.0
13	1.4	699.7 - 715.3	41	5	2498.5 - 2687.5
	3	700.5 - 714.5		10	2501.0 - 2685.0
	5	701.5 - 713.5		15	2503.5 - 2682.5
	10	704.0 - 711.0		20	2506.0 - 2680.0
17	5	779.5 - 784.5	782	5	706.5 - 713.5
	10	709 - 711		10	709 - 711

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

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LTE Band	BW (MHz)	Operation Frequency (MHz)	LTE Band	BW (MHz)	Operation Frequency (MHz)
66	1.4	1710.7 - 1779.3	71	5	665.5 - 695.5
	3	1711.5 - 1778.5		10	688.0 - 693.0
	5	1712.5 - 1777.5		15	670.5 - 690.5
	10	1715.0 - 1775.0		20	673.0 - 688.0
	15	1717.5 - 1772.5			
	20	1720.0 - 1770.0			

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1.3 Antenna Designation

Antenna Type	Antenna Model No.
PIFA	Ant0
	Ant1
	Ant2

Note: The EUT equipped with 7 WWAN antenna, however, transmission of 2G / 3G / 4GLTE bands are available by Ant0, Ant1 and Ant2.

Operating Frequency (MHz)		Ant 0 Peak Gain (dBi)	Ant 1 Peak Gain (dBi)	Ant 2 Peak Gain (dBi)
GSM / GPRS / EDGE 850	824.2 ~ 848.8	-1.8	N/A	-2.2
GSM / GPRS / EDGE 1900	1850.2 ~ 1909.8	N/A	-1.0	N/A
WCDMA / HSPA Band II	1852.4 ~ 1907.6	N/A	-1.0	N/A
WCDMA / HSPA Band IV	1712.4 ~ 1752.6	N/A	0.7	N/A
WCDMA / HSPA Band V	826.4 ~ 846.6	-1.8	N/A	-2.2
LTE-Band 2	1850.7 ~ 1909.3	N/A	-1.0	N/A
LTE-Band 4	1710.7 ~ 1754.3	N/A	0.7	N/A
LTE-Band 5	824.7 ~ 848.3	-1.8	N/A	-2.2
LTE-Band 7	2502.5 ~ 2567.5	N/A	-0.5	N/A
LTE-Band 12	699.7 ~ 715.3	-3.8	N/A	-5.3
LTE-Band 13	779.5 ~ 784.5	-1.6	N/A	-3.4
LTE-Band 17	706.5 ~ 713.5	-3.9	N/A	-5.3
LTE-Band 25	1850.7 ~ 1914.3	N/A	-0.7	N/A
LTE-Band 26	824.7 ~ 848.3	-1.1	N/A	-2.2
LTE-Band 26 Part 90	814.7 ~ 823.3	-1.1	N/A	-2.2
LTE-Band 30	2307.5 ~ 2312.5	N/A	-2.7	N/A
LTE-Band 38	2572.5 ~ 2617.5	N/A	-2.3	N/A
LTE-Band 41	2498.5 ~ 2687.5	N/A	-3.0	N/A
LTE-Band 66	1710.7 ~ 1779.3	N/A	-1.1	N/A
LTE-Band 71	665.5 ~ 695.5	-4.0	N/A	-6.2

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

	ERP / EIRP (dBm)		W	99%	Type of Emission
GSM 850	28.47	ERP	0.703	0.2472	247KGXW
GPRS 850	28.53	ERP	0.713	0.2451	245KGXW
EDGE 850	22.77	ERP	0.189	0.2463	246KG7W
GSM 1900	29.50	EIRP	0.891	0.2457	246KGXW
GPRS 1900	29.55	EIRP	0.902	0.2459	246KGXW
EDGE 1900	24.84	EIRP	0.305	0.2452	245KG7W
	ERP / EIRP (dBm)		W	99%	Type of Emission
WCDMA Band II	22.11	EIRP	0.163	4.1438	4M14F9W
HSDPA Band II	21.17	EIRP	0.131	4.1409	4M14F9W
HSUPA Band II	21.18	EIRP	0.131	4.1406	4M14F9W
WCDMA Band IV	23.67	EIRP	0.233	4.1424	4M14F9W
HSDPA Band IV	22.69	EIRP	0.186	4.1497	4M15F9W
HSUPA Band IV	22.74	EIRP	0.188	4.1328	4M13F9W
WCDMA Band V	19.23	ERP	0.084	4.1474	4M15F9W
HSDPA Band V	19.16	ERP	0.082	4.1341	4M13F9W
HSUPA Band V	18.20	ERP	0.066	4.1416	4M14F9W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
2	1.4	QPSK	22.57	EIRP	0.181	1.0956	1M10G7D	4	1.4	QPSK	24.04	EIRP	0.254	1.0958	1M10G7D
		16QAM	22.09	EIRP	0.162	1.0999	1M10D7W			16QAM	23.36	EIRP	0.217	1.1001	1M10D7W
		64QAM	21.50	EIRP	0.141	1.0962	1M10D7W			64QAM	23.19	EIRP	0.208	4.5039	4M50D7W
		256QAM	18.49	EIRP	0.071	1.0892	1M09D7W			256QAM	20.17	EIRP	0.104	1.0893	1M09D7W
2	3	QPSK	22.31	EIRP	0.170	2.6935	2M69G7D	4	3	QPSK	23.62	EIRP	0.230	2.6984	2M70G7D
		16QAM	21.88	EIRP	0.154	2.7117	2M71D7W			16QAM	23.45	EIRP	0.221	2.6989	2M70D7W
		64QAM	21.49	EIRP	0.141	2.7038	2M70D7W			64QAM	23.20	EIRP	0.209	2.7024	2M70D7W
		256QAM	18.49	EIRP	0.071	2.7047	2M70D7W			256QAM	20.19	EIRP	0.104	2.7051	2M71D7W
2	5	QPSK	22.39	EIRP	0.173	4.4939	4M49G7D	4	5	QPSK	23.76	EIRP	0.238	4.4941	4M49G7D
		16QAM	21.97	EIRP	0.157	4.4902	4M49D7W			16QAM	23.62	EIRP	0.230	4.4874	4M49D7W
		64QAM	21.49	EIRP	0.141	4.5039	4M50D7W			64QAM	23.19	EIRP	0.208	4.5039	4M50D7W
		256QAM	18.49	EIRP	0.071	4.4868	4M49D7W			256QAM	20.19	EIRP	0.104	4.4871	4M49D7W
2	10	QPSK	22.51	EIRP	0.178	9.0053	9M01G7D	4	10	QPSK	23.89	EIRP	0.245	9.0072	9M01G7D
		16QAM	22.00	EIRP	0.158	8.9633	8M96D7W			16QAM	23.65	EIRP	0.232	8.9536	8M95D7W
		64QAM	21.48	EIRP	0.141	8.9975	9M00D7W			64QAM	23.19	EIRP	0.208	8.9994	9M00D7W
		256QAM	18.49	EIRP	0.071	8.9716	8M97D7W			256QAM	20.19	EIRP	0.104	8.9795	8M98D7W
2	15	QPSK	22.58	EIRP	0.181	13.501	13M5G7D	4	15	QPSK	23.97	EIRP	0.249	13.502	13M5G7D
		16QAM	22.03	EIRP	0.160	13.475	13M5D7W			16QAM	23.70	EIRP	0.234	13.468	13M5D7W
		64QAM	21.49	EIRP	0.141	13.479	13M5D7W			64QAM	23.19	EIRP	0.103	13.487	13M5D7W
		256QAM	18.49	EIRP	0.071	13.462	13M5D7W			256QAM	20.11	EIRP	0.103	13.471	13M5D7W
2	20	QPSK	22.59	EIRP	0.182	17.947	17M9G7D	4	20	QPSK	24.08	EIRP	0.256	17.944	17M9G7D
		16QAM	22.10	EIRP	0.162	17.968	18M0D7W			16QAM	23.84	EIRP	0.242	17.942	17M9D7W
		64QAM	21.49	EIRP	0.141	17.939	17M9D7W			64QAM	23.19	EIRP	0.208	17.932	17M9D7W
		256QAM	18.48	EIRP	0.070	17.933	17M9D7W			256QAM	20.13	EIRP	0.103	17.921	17M9D7W

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
5	1.4	QPSK	19.12	ERP	0.082	1.0956	1M10G7D
		16QAM	18.35	ERP	0.068	1.0986	1M10D7W
		64QAM	18.53	ERP	0.071	1.0964	1M10D7W
		256QAM	16.36	ERP	0.043	1.0882	1M09D7W
5	3	QPSK	18.92	ERP	0.078	2.6972	2M70G7D
		16QAM	18.59	ERP	0.072	2.7131	2M71D7W
		64QAM	18.54	ERP	0.071	2.7018	2M70D7W
		256QAM	16.44	ERP	0.044	2.7054	2M71D7W
5	5	QPSK	19.06	ERP	0.081	4.4917	4M49G7D
		16QAM	18.63	ERP	0.073	4.4845	4M48D7W
		64QAM	18.54	ERP	0.071	4.4966	4M50D7W
		256QAM	16.52	ERP	0.045	4.4882	4M49D7W
5	10	QPSK	19.14	ERP	0.082	9.0134	9M01G7D
		16QAM	18.80	ERP	0.076	8.9620	8M96D7W
		64QAM	18.54	ERP	0.071	8.9981	9M00D7W
		256QAM	16.55	ERP	0.045	8.9767	8M98D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
7	5	QPSK	21.97	EIRP	0.157	4.4954	4M50G7D
		16QAM	21.30	EIRP	0.135	4.4863	4M49D7W
		64QAM	21.00	EIRP	0.126	4.5048	4M50D7W
		256QAM	17.99	EIRP	0.063	4.4914	4M49D7W
7	10	QPSK	22.04	EIRP	0.160	9.0049	9M00G7D
		16QAM	21.25	EIRP	0.133	8.9692	8M97D7W
		64QAM	20.99	EIRP	0.126	8.9985	9M00D7W
		256QAM	17.95	EIRP	0.062	8.9844	8M98D7W
7	15	QPSK	22.14	EIRP	0.164	13.471	13M5G7D
		16QAM	21.44	EIRP	0.139	13.477	13M5D7W
		64QAM	20.99	EIRP	0.126	13.476	13M5D7W
		256QAM	17.98	EIRP	0.063	13.470	13M5D7W
7	20	QPSK	22.21	EIRP	0.166	17.948	17M9G7D
		16QAM	21.60	EIRP	0.145	17.914	17M9D7W
		64QAM	20.99	EIRP	0.126	17.932	17M9D7W
		256QAM	18.00	EIRP	0.063	17.941	17M9D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
12	1.4	QPSK	16.84	ERP	0.048	1.0942	1M09G7D
		16QAM	16.21	ERP	0.042	1.0984	1M10D7W
		64QAM	16.28	ERP	0.042	1.0968	1M10D7W
		256QAM	15.46	ERP	0.035	1.0899	1M09D7W
		QPSK	16.88	ERP	0.049	2.6957	2M70G7D
12	3	16QAM	16.34	ERP	0.043	2.7160	2M72D7W
		64QAM	16.33	ERP	0.043	2.7047	2M70D7W
		256QAM	13.42	ERP	0.022	2.7030	2M70D7W
		QPSK	16.91	ERP	0.049	4.4915	4M49G7D
12	5	16QAM	16.39	ERP	0.044	4.4853	4M49D7W
		64QAM	16.36	ERP	0.043	4.4991	4M50D7W
		256QAM	13.50	ERP	0.022	4.4900	4M49D7W
		QPSK	16.97	ERP	0.050	8.9997	9M00G7D
12	10	16QAM	16.50	ERP	0.045	8.9612	8M96D7W
		64QAM	16.43	ERP	0.044	8.9879	8M99D7W
		256QAM	13.51	ERP	0.022	8.9680	8M97D7W
		LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)
13	5	QPSK	19.51	ERP	0.089	4.5003	4M50G7D
		16QAM	18.69	ERP	0.074	4.4973	4M50D7W
		64QAM	18.66	ERP	0.073	4.5040	4M50D7W
		256QAM	15.75	ERP	0.038	4.4934	4M49D7W
13	10	QPSK	19.65	ERP	0.092	8.9649	8M96G7D
		16QAM	18.79	ERP	0.076	8.9345	8M93D7W
		64QAM	18.74	ERP	0.075	8.9687	8M97D7W
		256QAM	15.61	ERP	0.036	8.9291	8M93D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
17	5	QPSK	16.79	ERP	0.048	4.4931	4M49G7D
		16QAM	16.20	ERP	0.042	4.5286	4M53D7W
		64QAM	15.96	ERP	0.039	4.5264	4M53D7W
		256QAM	13.40	ERP	0.039	4.4884	4M49D7W
17	10	QPSK	16.99	ERP	0.050	8.9928	8M99G7D
		16QAM	16.54	ERP	0.045	8.9552	8M96D7W
		64QAM	16.45	ERP	0.044	8.9882	8M99D7W
		256QAM	13.42	ERP	0.039	8.9696	8M97D7W

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission			
25	1.4	QPSK	22.35	EIRP	0.172	1.0961	1M10G7D	26 Part 90	1.4	QPSK	20.03	ERP	0.101	1.0948	1M09G7D			
		16QAM	22.10	EIRP	0.162	1.1013	1M10D7W			16QAM	19.03	ERP	0.080	1.0997	1M10D7W			
		64QAM	21.47	EIRP	0.140	1.0947	1M09D7W			64QAM	18.83	ERP	0.076	1.0964	1M10D7W			
		256QAM	18.51	EIRP	0.071	1.0885	1M09D7W			256QAM	15.82	ERP	0.038	1.0896	1M09D7W			
25	3	QPSK	22.49	EIRP	0.177	2.6942	2M69G7D	26 Part 90	3	QPSK	20.09	ERP	0.102	2.6976	2M70G7D			
		16QAM	22.26	EIRP	0.168	2.7145	2M71D7W			16QAM	19.40	ERP	0.087	2.7094	2M71D7W			
		64QAM	21.65	EIRP	0.146	2.7055	2M71D7W			64QAM	19.00	ERP	0.079	2.7015	2M70D7W			
		256QAM	18.50	EIRP	0.071	2.7042	2M70D7W			256QAM	15.88	ERP	0.039	2.7048	2M70D7W			
25	5	QPSK	22.62	EIRP	0.183	4.4933	4M49G7D	26 Part 90	5	QPSK	20.14	ERP	0.103	4.4919	4M49G7D			
		16QAM	22.37	EIRP	0.173	4.4867	4M49D7W			16QAM	19.34	ERP	0.086	4.4882	4M49D7W			
		64QAM	21.76	EIRP	0.150	4.5039	4M50D7W			64QAM	19.05	ERP	0.080	4.5023	4M50D7W			
		256QAM	18.59	EIRP	0.072	4.4876	4M49D7W			256QAM	15.98	ERP	0.040	4.4856	4M49D7W			
25	10	QPSK	22.69	EIRP	0.186	8.9998	9M00G7D	26 Part 90	10	QPSK	20.13	ERP	0.103	8.9722	8M97G7D			
		16QAM	22.37	EIRP	0.173	8.9643	8M96D7W			16QAM	19.38	ERP	0.087	8.9951	9M00D7W			
		64QAM	21.78	EIRP	0.151	8.9894	8M99D7W			64QAM	17.65	ERP	0.058	8.9448	8M94D7W			
		256QAM	18.68	EIRP	0.074	8.9748	8M97D7W			256QAM	15.29	ERP	0.034	8.9581	8M96D7W			
25	15	QPSK	22.71	EIRP	0.187	13.470	13M5G7D	LTE Band	BW	Modulation	ERP / EIRP (dBm/MHz)		(W)	99%	Type of Emission			
		16QAM	22.37	EIRP	0.173	13.473	13M5D7W				30	5	QPSK	20.77	EIRP	0.119	4.4977	4M50G7D
		64QAM	21.79	EIRP	0.151	13.484	13M5D7W						16QAM	19.80	EIRP	0.095	4.4934	4M49D7W
		256QAM	18.68	EIRP	0.074	13.447	13M4D7W						64QAM	18.80	EIRP	0.076	4.5019	4M50D7W
QPSK	22.88	EIRP	0.194	17.953	18M0G7D	256QAM	15.69	EIRP	0.037	4.4892			4M49D7W					
25	20	16QAM	22.40	EIRP	0.174	17.929	17M9D7W	30	10	QPSK	20.65	EIRP	0.116	8.9975	9M00G7D			
		64QAM	21.79	EIRP	0.151	17.938	17M9D7W			16QAM	19.79	EIRP	0.095	8.9521	8M95D7W			
		256QAM	18.79	EIRP	0.076	17.944	17M9D7W			64QAM	18.79	EIRP	0.076	8.9873	8M99D7W			
		QPSK	22.71	EIRP	0.187	13.470	13M5G7D			256QAM	15.64	EIRP	0.037	8.9576	8M96D7W			
26	1.4	QPSK	19.91	ERP	0.098	1.0944	1M09G7D	LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission			
		16QAM	18.95	ERP	0.079	1.0992	1M10D7W				38	5	QPSK	21.39	EIRP	0.138	4.5048	4M50G7D
		64QAM	18.55	ERP	0.072	1.0979	1M10D7W						16QAM	20.37	EIRP	0.109	4.5204	4M52D7W
		256QAM	15.73	ERP	0.037	1.0893	1M09D7W						64QAM	20.20	EIRP	0.105	4.5074	4M51D7W
QPSK	20.00	ERP	0.100	2.6962	2M70G7D	256QAM	17.01	EIRP	0.105	4.4792			4M48D7W					
26	3	16QAM	18.83	ERP	0.076	2.7132	2M71D7W	38	10	QPSK	21.41	EIRP	0.138	8.9818	8M98G7D			
		64QAM	18.67	ERP	0.074	2.7035	2M70D7W			16QAM	20.41	EIRP	0.110	8.9781	8M98D7W			
		256QAM	15.82	ERP	0.038	2.7025	2M70D7W			64QAM	20.19	EIRP	0.104	8.9794	8M98D7W			
		QPSK	20.00	ERP	0.100	4.4915	4M49G7D			256QAM	17.08	EIRP	0.104	8.9719	8M97D7W			
26	5	16QAM	19.25	ERP	0.084	4.4872	4M49D7W	38	15	QPSK	21.41	EIRP	0.138	13.475	13M5G7D			
		64QAM	18.79	ERP	0.076	4.5008	4M50D7W			16QAM	20.46	EIRP	0.111	13.490	13M5D7W			
		256QAM	15.97	ERP	0.040	4.4859	4M49D7W			64QAM	20.19	EIRP	0.104	13.482	13M5D7W			
		QPSK	20.18	ERP	0.104	9.0138	9M01G7D			256QAM	17.19	EIRP	0.104	13.469	13M5D7W			
26	10	16QAM	19.37	ERP	0.086	8.9578	8M96D7W	38	20	QPSK	21.41	EIRP	0.138	17.935	17M9G7D			
		64QAM	18.91	ERP	0.078	8.9966	9M00D7W			16QAM	20.53	EIRP	0.113	17.904	17M9D7W			
		256QAM	16.12	ERP	0.041	8.9746	8M97D7W			64QAM	20.18	EIRP	0.104	17.909	17M9D7W			
		QPSK	20.28	ERP	0.107	13.483	13M5G7D			256QAM	17.20	EIRP	0.104	17.906	17M9D7W			
26	15	16QAM	19.18	ERP	0.083	13.457	13M5D7W											
		64QAM	19.05	ERP	0.080	13.463	13M5D7W											
		256QAM	16.17	ERP	0.041	13.466	13M5D7W											

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
41	5	QPSK	20.59	EIRP	0.115	4.4955	4M50G7D
		16QAM	19.50	EIRP	0.089	4.4942	4M49D7W
		64QAM	19.48	EIRP	0.089	4.5145	4M51D7W
		256QAM	16.48	EIRP	0.044	4.4756	4M48D7W
41	10	QPSK	20.59	EIRP	0.115	8.9768	8M98G7D
		16QAM	19.60	EIRP	0.091	8.9635	8M96D7W
		64QAM	19.49	EIRP	0.089	8.9831	8M98D7W
		256QAM	16.49	EIRP	0.045	8.9736	8M97D7W
41	15	QPSK	20.66	EIRP	0.116	13.489	13M5G7D
		16QAM	19.60	EIRP	0.091	13.476	13M5D7W
		64QAM	19.49	EIRP	0.089	13.496	13M5D7W
		256QAM	16.49	EIRP	0.045	13.476	13M5D7W
41	20	QPSK	20.72	EIRP	0.118	17.932	17M9G7D
		16QAM	19.63	EIRP	0.092	17.889	17M9D7W
		64QAM	19.48	EIRP	0.089	17.894	17M9D7W
		256QAM	16.46	EIRP	0.044	17.900	17M9D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
66	1.4	QPSK	22.14	EIRP	0.164	1.0959	1M10G7D
		16QAM	21.33	EIRP	0.136	1.1009	1M10D7W
		64QAM	21.26	EIRP	0.134	1.0964	1M10D7W
		256QAM	18.38	EIRP	0.069	1.0896	1M09D7W
66	3	QPSK	22.19	EIRP	0.166	2.6965	2M70G7D
		16QAM	21.48	EIRP	0.141	2.7158	2M72D7W
		64QAM	21.40	EIRP	0.138	2.7038	2M70D7W
		256QAM	18.34	EIRP	0.068	2.7034	2M70D7W
66	5	QPSK	22.31	EIRP	0.170	4.4911	4M49G7D
		16QAM	21.50	EIRP	0.141	4.4877	4M49D7W
		64QAM	21.39	EIRP	0.138	4.5011	4M50D7W
		256QAM	18.39	EIRP	0.069	4.4885	4M49D7W
66	10	QPSK	22.35	EIRP	0.172	9.0112	9M01G7D
		16QAM	21.55	EIRP	0.143	8.9574	8M96D7W
		64QAM	21.39	EIRP	0.138	8.9843	8M98D7W
		256QAM	18.35	EIRP	0.068	8.9684	8M97D7W
66	15	QPSK	22.44	EIRP	0.175	13.468	13M5G7D
		16QAM	21.62	EIRP	0.145	13.474	13M5D7W
		64QAM	21.40	EIRP	0.138	13.472	13M5D7W
		256QAM	18.40	EIRP	0.069	13.457	13M5D7W
66	20	QPSK	22.47	EIRP	0.177	17.936	17M9G7D
		16QAM	21.67	EIRP	0.147	17.929	17M9D7W
		64QAM	21.39	EIRP	0.138	17.947	17M9D7W
		256QAM	18.34	EIRP	0.068	17.925	17M9D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
71	5	QPSK	17.40	ERP	0.055	4.4922	4M49G7D
		16QAM	16.40	ERP	0.044	4.4870	4M49D7W
		64QAM	16.28	ERP	0.042	4.5000	4M50D7W
		256QAM	13.33	ERP	0.022	4.4908	4M49D7W
71	10	QPSK	17.50	ERP	0.056	9.0063	9M01G7D
		16QAM	16.41	ERP	0.044	8.9652	8M97D7W
		64QAM	16.29	ERP	0.043	8.9868	8M99D7W
		256QAM	13.32	ERP	0.021	8.9643	8M96D7W
71	15	QPSK	17.54	ERP	0.057	13.494	13M5G7D
		16QAM	16.44	ERP	0.044	13.495	13M5D7W
		64QAM	16.35	ERP	0.043	13.467	13M5D7W
		256QAM	13.30	ERP	0.021	13.477	13M5D7W
71	20	QPSK	17.60	ERP	0.058	17.927	17M9G7D
		16QAM	16.56	ERP	0.045	17.914	17M9D7W
		64QAM	16.34	ERP	0.043	17.921	17M9D7W
		256QAM	13.35	ERP	0.022	17.912	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-132 Issue 3 Jan. 2013

ISED RSS-133 Issue 6, Amendment 1 Jan. 18, 2018

ISED RSS-139 Issue 3 July 16, 2015

ISED RSS-195 Issue 2 Apr. 24, 2014

ISED RSS-199 Issue 3 Dec. 2016

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

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

KDB412172 D01 Determining ERP and EIRP v01r01

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

1.6 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

FCC Designation number: TW0027

ISED CAB identifier: TW3702

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 according to the requirements in Section 8 and 13.

2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	3.8	10	13.8
High Band (Above 1 GHz)	4.4	10	14.4

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2.5 Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.85	428
GSM 1900		422
WCDMA B2		417
WCDMA B4		402
WCDMA B5		408
LTE Band 2		580
LTE Band 4		589
LTE Band 5		587
LTE Band 7		581
LTE Band 12		595
LTE Band 13		584
LTE Band 17		591
LTE Band 25		595
LTE Band 26		589
LTE Band 26 (Part 90S)		568
LTE Band 30		445
LTE Band 38		599
LTE Band 41		595
LTE Band 66		583
LTE Band 71		591

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2.6 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

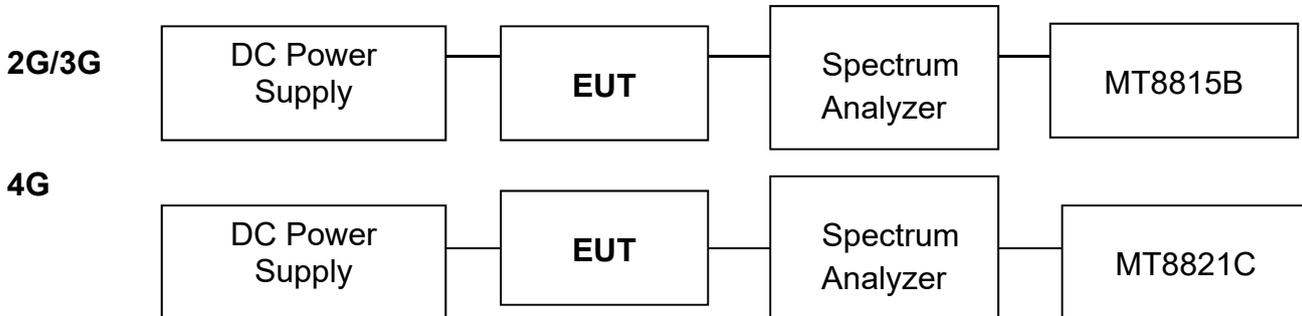


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

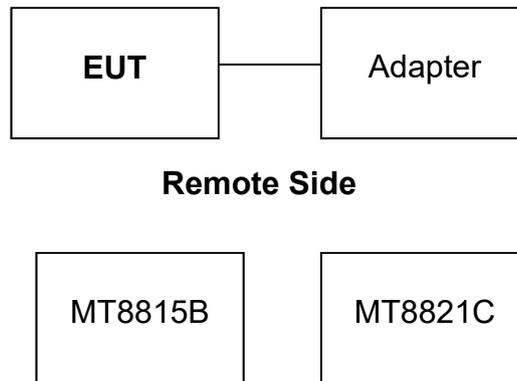


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyzer	Anritsu	MT8815B	6200711454	shielded	Un-shielded
2.	Radio Communication Analyzer	Anritsu	MT8821C	6261786084	shielded	Un-shielded

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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(b)(10) §27.50(a)(3) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.635	RSS-130 §4.6 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.5 RSS-195 §5.5 RSS-199 §4.4	ERP/ EIRP measurement	Compliant
§2.1049(h)	RSS-GEN §6.7	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.53(a) §27.53(g) §27.53(h) §27.53(m)(4)(6) §90.691	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-195 §5.6 RSS-199 §4.5	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(a) §27.53(c)(f) §27.53(g) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2)	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-195 §5.6 RSS-199 §4.5	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50(B)	RSS-130 §4.6.1 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.4 RSS-195 §5.5 RSS-199 §4.4	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.213	RSS-130 §4.5 RSS-132 §5.3 RSS-133 §6.3 RSS-139 §6.5 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. Transmissions of each frequency bands are available by 4 antennas below, only one antenna can be enabled at any given time by each band, the EUT dose not support MIMO mode.
3. Evaluation has been done on Upper and Lower antenna, the Lower antenna results higher EIRP and Emissions, therefore, only measurement results of the Lower antenna are demonstrated in this test report.

Mode	Bands	Upper Antenna	Lower Antenna
GSM / GPRS / EDGE	850	2	0
	1900	N/A	1
WDCMA / HSPA	Band II	N/A	1
	Band IV	N/A	1
	Band V	2	0
LTE	Band 2	N/A	1
	Band 4	N/A	1
	Band 5	2	0
	Band 7	N/A	1
	Band 12	2	0
	Band 13	2	0
	Band 17	2	0
	Band 25	N/A	1
	Band 26	2	0
	Band 26 (Part 90)	2	0
	Band 30	N/A	1
	Band 38	N/A	1
	Band 41	N/A	1
	Band 66	N/A	1
	Band 71	2	0

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

BAND	H PLAN	E1 PLAN	E2 PLAN
GSM/GPRS/EDGE 850		V	
GSM/GPRS/EDGE 1900		V	
WCDMA/HSPA Band II		V	
WCDMA/HSPA Band IV		V	
WCDMA/HSPA Band V		V	
LTE Band 2		V	
LTE Band 4		V	
LTE Band 5		V	
LTE Band 7		V	
LTE Band 12		V	
LTE Band 13		V	
LTE Band 17		V	
LTE Band 25		V	
LTE Band 26		V	
LTE Band 26 (Part 90S)		V	
LTE Band 30		V	
LTE Bnad 38		V	
LTE Band 41		V	
LTE Band 66		V	
LTE Band 71		V	

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4.2 Measurement Configuration

Test Items	GSM Bands	Test Channel		
		L	M	H
ERP	850	v	v	v
EIRP	1900	v	v	v
FREQUENCY STABILITY	850	-	v	-
	1900	-	v	-
OCCUPIED BANDWIDTH	850	v	v	v
	1900	v	v	v
PEAK TO AVERAGE RATIO	850	v	v	v
	1900	v	v	v
BAND EDGE	850	v	-	v
	1900	v	-	v
CONDCUDED EMISSION	850	v	v	v
	1900	v	v	v
RADIATED EMISSION	850	v	v	v
	1900	v	v	v

Test Items	WCDMA / HSPA Bands	Test Channel		
		L	M	H
ERP	Band V	v	v	v
EIRP	Bnad II	v	v	v
	Band IV	v	v	v
FREQUENCY STABILITY	Bnad II	-	v	-
	Band IV	-	v	-
	Band V	-	v	-
OCCUPIED BANDWIDTH	Bnad II	v	v	v
	Band IV	v	v	v
	Band V	v	v	v
PEAK TO AVERAGE RATIO	Bnad II	v	v	v
	Band IV	v	v	v
	Band V	v	v	v
BAND EDGE	Bnad II	v	-	v
	Band IV	v	-	v
	Band V	v	-	v
CONDCUDED EMISSION	Bnad II	v	v	v
	Band IV	v	v	v
	Band V	v	v	v
RADIATED EMISSION	Bnad II	v	v	v
	Band IV	v	v	v
	Band 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	256QAM	1	Half	Full
Max. Output Power	2	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	4	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	5	V	V	V	V	V	V	V	-	-	V	V	V	V	V	V	V
	7	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V	V
	12	V	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	V
	17	V	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	V
	26	V	V	V	V	V	V	V	V	-	V	V	V	V	V	V	V
	26 P90	V	V	V	V	V	V	V	-	-	V	V	V	V	V	V	V
	30	V	V	V	-	-	V	V	-	-	V	V	V	V	V	V	V
	38	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V	V
	41	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V	V
	66	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
71	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V	V	
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
	17	-	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
71	-	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	256QAM	1	Half	Full
26dB and 99% Bandwidth	2	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	V
	4	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	V
	5	V	V	V	V	V	V	V	-	-	V	V	V	V	-	-	V
	7	V	V	V	-	-	V	V	V	V	V	V	V	V	-	-	V
	12	V	V	V	V	V	V	V	-	-	V	V	V	V	-	-	V
	13	V	V	V	-	-	V	V	-	-	V	V	V	V	-	-	V
	17	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
	26	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
	30	V	V	V	-	-	V	V	-	-	V	V	V	V	-	-	V
	38	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
	66	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	V
71	V	V	V	-	-	V	V	V	V	V	V	V	V	-	-	V	
Peak-to-Average Ratio	2	V	V	V	V	V	V	V	V	V				V	-	-	V
	4	V	V	V	V	V	V	V	V	V				V	-	-	V
	5	V	V	V	V	V	V	V	-	-				V	-	-	V
	7	V	V	V	-	-	V	V	V	V				V	-	-	V
	12	V	V	V	V	V	V	V	-	-				V	-	-	V
	13	V	V	V	-	-	V	V	-	-				V	-	-	V
	17	V	V	V	-	-	V	V	-	-				V	-	-	V
	25	V	V	V	V	V	V	V	V	V				V	-	-	V
	26	V	V	V	V	V	V	V	V	-				V	-	-	V
	26 P90	V	V	V	V	V	V	V	-	-				V	-	-	V
	30	V	V	V	-	-	V	V	-	-				V	-	-	V
	38	V	V	V	-	-	V	V	V	V				V	-	-	V
	41	V	V	V	-	-	V	V	V	V				V	-	-	V
	66	V	V	V	V	V	V	V	V	V				V	-	-	V
71	V	V	V	-	-	V	V	V	V				V	-	-	V	

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Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation				RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	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
	17	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
71	v	-	v	-	-	v	v	v	v	v	-	-	-	v	v	v	
Conducted Emission	2	v	v	v	v	v	v	v	v	v	v	-	-	-	v	-	-
	4	v	v	v	v	v	v	v	v	v	v	-	-	-	v	-	-
	5	v	v	v	v	v	v	v	-	-	v	-	-	-	v	-	-
	7	v	v	v	-	-	v	v	v	v	v	-	-	-	v	-	-
	12	v	v	v	v	v	v	v	-	-	v	-	-	-	v	-	-
	13	v	v	v	-	-	v	v	-	-	v	-	-	-	v	-	-
	17	v	v	v	-	-	v	v	-	-	v	-	-	-	v	-	-
	25	v	v	v	v	v	v	v	v	v	v	-	-	-	v	-	-
	26	v	v	v	v	v	v	v	v	-	v	-	-	-	v	-	-
	26 P90	v	v	v	v	v	v	v	-	-	v	-	-	-	v	-	-
	30	v	v	v	-	-	v	v	-	-	v	-	-	-	v	-	-
	38	v	v	v	-	-	v	v	v	v	v	-	-	-	v	-	-
	41	v	v	v	-	-	v	v	v	v	v	-	-	-	v	-	-
	66	v	v	v	v	v	v	v	v	v	v	-	-	-	v	-	-
71	v	v	v	-	-	v	v	v	v	v	-	-	-	v	-	-	

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Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation				RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	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		
	17	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		
71	v	v	v	-	-	v				v				v			

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

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

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6 MAXIMUM 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 90.635(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 mobile equipment, fixed subscriber equipment and portable equipment operating in the Band 617-652 and 663-698MHz.

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

RSS-132 §5.4

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

RSS-133 §6.4

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

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

RSS-139 §6.5

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

RSS-195 §5.5

The e.i.r.p. of mobile or portable equipment transmitting in the band 2305-2315 MHz or the band 2350-2360 MHz, employing 3GPP LTE (Third Generation 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

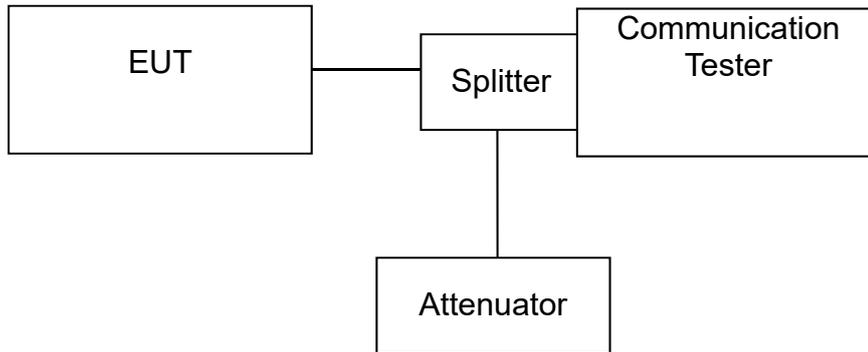
For mobile subscriber equipment operating in the Band 2500-2690MHz, the e.i.r.p. shall not exceed 2 W.

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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. TS 151 010-1 is reference to conduct the test measurement of output power. The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results. All LTE bands conducted average power is obtained from the simulator telecommunication test set.

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.

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6.5 Measurement Equipment Used

2/3G

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021

4G

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

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6.6 Measurement Results

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

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
GSM 850	824.2	128	32.04	-1.80	28.09	30.24	38.50	-8.26
	836.6	190	32.42	-1.80	28.47	30.62	38.50	-7.88
	848.8	251	32.21	-1.80	28.26	30.41	38.50	-8.09
GSM 1900	1850.2	512	30.13	-1.00	26.98	29.13	33.00	-3.87
	1880.0	661	30.50	-1.00	27.35	29.50	33.00	-3.50
	1909.8	810	30.22	-1.00	27.07	29.22	33.00	-3.78
GPRS 850	824.2	128	32.18	-1.80	28.23	30.38	38.50	-8.12
	836.6	190	32.48	-1.80	28.53	30.68	38.50	-7.82
	848.8	251	32.27	-1.80	28.32	30.47	38.50	-8.03
GPRS 1900	1850.2	512	30.26	-1.00	27.11	29.26	33.00	-3.74
	1880.0	661	30.55	-1.00	27.40	29.55	33.00	-3.45
	1909.8	810	30.23	-1.00	27.08	29.23	33.00	-3.77
EDGE 850	824.2	128	26.52	-1.80	22.57	24.72	38.50	-13.78
	836.6	190	26.72	-1.80	22.77	24.92	38.50	-13.58
	848.8	251	26.42	-1.80	22.47	24.62	38.50	-13.88
EDGE 1900	1850.2	512	25.80	-1.00	22.65	24.80	33.00	-8.20
	1880.0	661	25.84	-1.00	22.69	24.84	33.00	-8.16
	1909.8	810	25.71	-1.00	22.56	24.71	33.00	-8.29

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EUT Mode	Frequency (MHz)	CH	Average Burst Power (1DN 1UP) Class 8 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)
GPRS 850	824.2	128	32.18	31.83
	836.6	190	32.48	32.20
	848.8	251	32.27	32.00
GPRS 1900	1850.2	512	30.26	29.98
	1880.0	661	30.55	30.39
	1909.8	810	30.23	30.10
EDGE 850	824.2	128	26.52	26.10
	836.6	190	26.72	26.34
	848.8	251	26.42	26.30
EDGE 1900	1850.2	512	25.80	25.32
	1880.0	661	25.84	25.82
	1909.8	810	25.71	25.50

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6.7 WCDMA & HSPA Measurement Results:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The EUT supports power Class 3, which has a nominal maximum output power of **24.50 dBm (+1.7/-3.7)**. RMC 12.2kps is used for this testing.

WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	23.09	-1.00	19.94	22.09	33.00	-10.91
	1880.0	9400	23.11	-1.00	19.96	22.11	33.00	-10.89
	1907.6	9538	23.04	-1.00	19.89	22.04	33.00	-10.96
HSDPA	1852.4	9262	22.17	-1.00	19.02	21.17	33.00	-11.83
	1880.0	9400	22.14	-1.00	18.99	21.14	33.00	-11.86
	1907.6	9538	22.05	-1.00	18.90	21.05	33.00	-11.95
HSUPA	1852.4	9262	22.18	-1.00	19.03	21.18	33.00	-11.82
	1880.0	9400	22.10	-1.00	18.95	21.10	33.00	-11.90
	1907.6	9538	22.03	-1.00	18.88	21.03	33.00	-11.97

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	22.96	0.70	21.51	23.66	30.00	-6.34
	1732.6	1413	22.93	0.70	21.48	23.63	30.00	-6.37
	1752.6	1513	22.97	0.70	21.52	23.67	30.00	-6.33
HSDPA	1712.4	1312	21.98	0.70	20.53	22.68	30.00	-7.32
	1732.6	1413	21.99	0.70	20.54	22.69	30.00	-7.31
	1752.6	1513	21.98	0.70	20.53	22.68	30.00	-7.32
HSUPA	1712.4	1312	22.04	0.70	20.59	22.74	30.00	-7.26
	1732.6	1413	21.89	0.70	20.44	22.59	30.00	-7.41
	1752.6	1513	21.96	0.70	20.51	22.66	30.00	-7.34

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WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	23.18	-1.80	19.23	21.38	38.50	-17.12
	836.6	4183	23.13	-1.80	19.18	21.33	38.50	-17.17
	846.6	4233	23.09	-1.80	19.14	21.29	38.50	-17.21
HSDPA	826.4	4132	22.15	-1.80	18.20	20.35	38.50	-18.15
	836.6	4183	22.07	-1.80	18.12	20.27	38.50	-18.23
	846.6	4233	23.11	-1.80	19.16	21.31	38.50	-17.19
HSUPA	826.4	4132	22.15	-1.80	18.20	20.35	38.50	-18.15
	836.6	4183	22.10	-1.80	18.15	20.30	38.50	-18.20
	846.6	4233	22.03	-1.80	18.08	20.23	38.50	-18.27

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6.7.1 HSPA (HSDPA & HSUPA) Release 6:

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

6.7.2 HSDPA SUB-TEST Setting

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

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

Mode	Sub test	Avg. Power (dBm) Channel			Mode	Sub test	Avg. Power (dBm) Channel		
		9262	9400	9538			1312	1413	1513
HSDPA II	1	22.17	22.14	22.05	HSDPA IV	1	21.98	21.99	21.98
	2	22.15	22.15	22.03		2	22.03	21.96	21.95
	3	21.63	21.62	21.56		3	21.51	21.52	21.46
	4	21.86	21.66	21.57		4	21.47	21.50	21.47

Mode	Sub test	Avg. Power (dBm) Channel		
		4132	4183	4233
HSDPA V	1	22.15	22.07	23.11
	2	22.21	22.36	23.10
	3	21.64	21.86	23.13
	4	21.67	21.77	23.12

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6.7.3 HSPA SUB-TEST Setting

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

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

Mode	Sub test	Avg. Power (dBm) Channel			Mode	Sub test	Avg. Power (dBm) Channel		
		9262	9400	9538			1312	1413	1513
HSUPA II	1	22.18	22.10	22.03	HSUPA IV	1	22.04	21.89	21.96
	2	21.63	21.64	21.55		2	21.50	21.49	21.48
	3	22.16	22.14	21.98		3	21.98	21.97	21.94
	4	22.18	22.11	22.04		4	21.96	21.95	21.97
	5	22.13	22.07	22.05		5	21.93	21.93	21.92

Mode	Sub test	Avg. Power (dBm) Channel		
		4132	4183	4233
HSUPA V	1	22.15	22.10	22.03
	2	21.66	21.59	21.61
	3	22.14	22.05	22.12
	4	22.15	22.09	22.08
	5	22.18	22.05	22.06

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

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

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**Minimum Communications Power Measurement
PCS 1900 band**

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	30.48	28.63	26.66	24.68	22.65	20.65	18.71	16.65	14.71

PCL	9	10	11	12	13	14	15
Output power (dBm)	12.64	10.67	8.77	6.74	4.67	2.6	1.12

Note: The EUT output power was controlled by simulator. Set Radio Communication Analyzer MT8815B PCL as above, and get the mobile phone output power reading.

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6.8 LTE Measurement Results:

Antenna gain (dBi)		-1							
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	23.35	22.35	33	-10.65
				1	5	23.48	22.48	33	-10.52
				3	2	23.57	22.57	33	-10.43
				6	0	22.56	21.56	33	-11.44
	18900	1880	QPSK	1	0	23.35	22.35	33	-10.65
				1	5	23.38	22.38	33	-10.62
				3	2	23.39	22.39	33	-10.61
				6	0	22.48	21.48	33	-11.52
	19193	1909.3	QPSK	1	0	23.17	22.17	33	-10.83
				1	5	23.25	22.25	33	-10.75
				3	2	23.39	22.39	33	-10.61
				6	0	22.42	21.42	33	-11.58
	18607	1850.7	16QAM	1	0	22.92	21.92	33	-11.08
				1	5	23.09	22.09	33	-10.91
				3	2	22.61	21.61	33	-11.39
				6	0	21.64	20.64	33	-12.36
	18900	1880	16QAM	1	0	22.47	21.47	33	-11.53
				1	5	22.61	21.61	33	-11.39
				3	2	22.58	21.58	33	-11.42
				6	0	21.50	20.50	33	-12.5
	19193	1909.3	16QAM	1	0	22.58	21.58	33	-11.42
				1	5	22.42	21.42	33	-11.58
				3	2	22.33	21.33	33	-11.67
				6	0	21.43	20.43	33	-12.57
	18607	1850.7	64QAM	1	0	22.49	21.49	33	-11.51
				1	5	22.41	21.41	33	-11.59
				3	2	22.41	21.41	33	-11.59
				6	0	21.48	20.48	33	-12.52
	18900	1880	64QAM	1	0	22.42	21.42	33	-11.58
				1	5	22.41	21.41	33	-11.59
				3	2	22.39	21.39	33	-11.61
				6	0	21.50	20.50	33	-12.5
	19193	1909.3	64QAM	1	0	22.47	21.47	33	-11.53
				1	5	22.50	21.50	33	-11.5
				3	2	22.36	21.36	33	-11.64
				6	0	21.31	20.31	33	-12.69
	18607	1850.7	256QAM	1	0	19.49	18.49	33	-14.51
				1	5	19.48	18.48	33	-14.52
				3	2	19.44	18.44	33	-14.56
				6	0	19.42	18.42	33	-14.58
	18900	1880	256QAM	1	0	19.45	18.45	33	-14.55
				1	5	19.46	18.46	33	-14.54
				3	2	19.41	18.41	33	-14.59
				6	0	19.35	18.35	33	-14.65
	19193	1909.3	256QAM	1	0	19.48	18.48	33	-14.52
				1	5	19.36	18.36	33	-14.64
				3	2	19.33	18.33	33	-14.67
				6	0	19.32	18.32	33	-14.68

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Antenna gain (dBi)		-1							
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	23.31	22.31	33	-10.69
				1	14	23.10	22.10	33	-10.9
				8	4	22.17	21.17	33	-11.83
				15	0	22.31	21.31	33	-11.69
	18900	1880	QPSK	1	0	23.03	22.03	33	-10.97
				1	14	23.21	22.21	33	-10.79
				8	4	22.04	21.04	33	-11.96
				15	0	22.26	21.26	33	-11.74
	19185	1908.5	QPSK	1	0	23.03	22.03	33	-10.97
				1	14	23.12	22.12	33	-10.88
				8	4	22.06	21.06	33	-11.94
				15	0	22.32	21.32	33	-11.68
	18615	1851.5	16QAM	1	0	22.54	21.54	33	-11.46
				1	14	22.11	21.11	33	-11.89
				8	4	21.43	20.43	33	-12.57
				15	0	21.17	20.17	33	-12.83
	18900	1880	16QAM	1	0	22.37	21.37	33	-11.63
				1	14	22.22	21.22	33	-11.78
				8	4	21.02	20.02	33	-12.98
				15	0	21.37	20.37	33	-12.63
	19185	1908.5	16QAM	1	0	22.88	21.88	33	-11.12
				1	14	22.38	21.38	33	-11.62
				8	4	21.25	20.25	33	-12.75
				15	0	21.20	20.20	33	-12.8
	18615	1851.5	64QAM	1	0	22.27	21.27	33	-11.73
				1	14	22.36	21.36	33	-11.64
				8	4	21.22	20.22	33	-12.78
				15	0	21.38	20.38	33	-12.62
	18900	1880	64QAM	1	0	22.49	21.49	33	-11.51
				1	14	21.97	20.97	33	-12.03
				8	4	21.37	20.37	33	-12.63
				15	0	21.33	20.33	33	-12.67
	19185	1908.5	64QAM	1	0	22.35	21.35	33	-11.65
				1	14	21.97	20.97	33	-12.03
				8	4	21.00	20.00	33	-13
				15	0	21.16	20.16	33	-12.84
	18615	1851.5	256QAM	1	0	19.49	18.49	33	-14.51
				1	14	19.33	18.33	33	-14.67
				8	4	19.28	18.28	33	-14.72
				15	0	19.22	18.22	33	-14.78
	18900	1880	256QAM	1	0	19.44	18.44	33	-14.56
				1	14	19.48	18.48	33	-14.52
				8	4	19.32	18.32	33	-14.68
				15	0	19.29	18.29	33	-14.71
	19185	1908.5	256QAM	1	0	19.47	18.47	33	-14.53
				1	14	19.44	18.44	33	-14.56
				8	4	19.23	18.23	33	-14.77
				15	0	19.32	18.32	33	-14.68

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Antenna gain (dBi)		-1							
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	23.39	22.39	33	-10.61
				1	24	23.22	22.22	33	-10.78
				12	6	22.31	21.31	33	-11.69
				25	0	22.42	21.42	33	-11.58
	18900	1880	QPSK	1	0	23.06	22.06	33	-10.94
				1	24	23.26	22.26	33	-10.74
				12	6	22.15	21.15	33	-11.85
				25	0	22.37	21.37	33	-11.63
	19175	1907.5	QPSK	1	0	23.04	22.04	33	-10.96
				1	24	23.27	22.27	33	-10.73
				12	6	22.23	21.23	33	-11.77
				25	0	22.38	21.38	33	-11.62
	18625	1852.5	16QAM	1	0	22.62	21.62	33	-11.38
				1	24	22.25	21.25	33	-11.75
				12	6	21.55	20.55	33	-12.45
				25	0	21.22	20.22	33	-12.78
	18900	1880	16QAM	1	0	22.44	21.44	33	-11.56
				1	24	22.28	21.28	33	-11.72
				12	6	21.08	20.08	33	-12.92
				25	0	21.37	20.37	33	-12.63
	19175	1907.5	16QAM	1	0	22.97	21.97	33	-11.03
				1	24	22.45	21.45	33	-11.55
				12	6	21.38	20.38	33	-12.62
				25	0	21.34	20.34	33	-12.66
	18625	1852.5	64QAM	1	0	22.27	21.27	33	-11.73
				1	24	22.36	21.36	33	-11.64
				12	6	21.38	20.38	33	-12.62
				25	0	21.50	20.50	33	-12.5
	18900	1880	64QAM	1	0	22.49	21.49	33	-11.51
				1	24	22.04	21.04	33	-11.96
				12	6	21.40	20.40	33	-12.6
				25	0	21.35	20.35	33	-12.65
	19175	1907.5	64QAM	1	0	22.49	21.49	33	-11.51
				1	24	22.00	21.00	33	-12
				12	6	21.18	20.18	33	-12.82
				25	0	21.28	20.28	33	-12.72
	18625	1852.5	256QAM	1	0	19.48	18.48	33	-14.52
				1	24	19.47	18.47	33	-14.53
				12	6	19.36	18.36	33	-14.64
				25	0	19.33	18.33	33	-14.67
	18900	1880	256QAM	1	0	19.49	18.49	33	-14.51
				1	24	19.45	18.45	33	-14.55
				12	6	19.23	18.23	33	-14.77
				25	0	19.22	18.22	33	-14.78
	19175	1907.5	256QAM	1	0	19.49	18.49	33	-14.51
				1	24	19.47	18.47	33	-14.53
				12	6	19.31	18.31	33	-14.69
				25	0	19.28	18.28	33	-14.72

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Antenna gain (dBi)		-1							
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	23.51	22.51	33	-10.49
				1	49	23.40	22.40	33	-10.6
				25	12	22.42	21.42	33	-11.58
				50	0	22.57	21.57	33	-11.43
	18900	1880	QPSK	1	0	23.10	22.10	33	-10.9
				1	49	23.31	22.31	33	-10.69
				25	12	22.33	21.33	33	-11.67
				50	0	22.50	21.50	33	-11.5
	19150	1905	QPSK	1	0	23.22	22.22	33	-10.78
				1	49	23.38	22.38	33	-10.62
				25	12	22.37	21.37	33	-11.63
				50	0	22.52	21.52	33	-11.48
	18650	1855	16QAM	1	0	22.62	21.62	33	-11.38
				1	49	22.41	21.41	33	-11.59
				25	12	21.62	20.62	33	-12.38
				50	0	21.34	20.34	33	-12.66
	18900	1880	16QAM	1	0	22.59	21.59	33	-11.41
				1	49	22.34	21.34	33	-11.66
				25	12	21.21	20.21	33	-12.79
				50	0	21.37	20.37	33	-12.63
	19150	1905	16QAM	1	0	23.00	22.00	33	-11
				1	49	22.51	21.51	33	-11.49
				25	12	21.46	20.46	33	-12.54
				50	0	21.41	20.41	33	-12.59
	18650	1855	64QAM	1	0	22.31	21.31	33	-11.69
				1	49	22.39	21.39	33	-11.61
				25	12	21.46	20.46	33	-12.54
				50	0	21.53	20.53	33	-12.47
	18900	1880	64QAM	1	0	22.48	21.48	33	-11.52
				1	49	22.12	21.12	33	-11.88
				25	12	21.45	20.45	33	-12.55
				50	0	21.38	20.38	33	-12.62
	19150	1905	64QAM	1	0	22.48	21.48	33	-11.52
				1	49	22.12	21.12	33	-11.88
				25	12	21.23	20.23	33	-12.77
				50	0	21.47	20.47	33	-12.53
	18650	1855	256QAM	1	0	19.49	18.49	33	-14.51
				1	49	19.44	18.44	33	-14.56
				25	12	19.01	18.01	33	-14.99
				50	0	19.10	18.10	33	-14.9
18900	1880	256QAM	1	0	19.48	18.48	33	-14.52	
			1	49	19.44	18.44	33	-14.56	
			25	12	19.03	18.03	33	-14.97	
			50	0	19.05	18.05	33	-14.95	
19150	1905	256QAM	1	0	19.47	18.47	33	-14.53	
			1	49	19.44	18.44	33	-14.56	
			25	12	19.11	18.11	33	-14.89	
			50	0	19.03	18.03	33	-14.97	

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Antenna gain (dBi)									
-1									
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	23.58	22.58	33	-10.42
				1	74	23.52	22.52	33	-10.48
				36	18	22.61	21.61	33	-11.39
				75	0	22.64	21.64	33	-11.36
	18900	1880	QPSK	1	0	23.27	22.27	33	-10.73
				1	74	23.38	22.38	33	-10.62
				36	18	22.48	21.48	33	-11.52
				75	0	22.61	21.61	33	-11.39
	19125	1902.5	QPSK	1	0	23.38	22.38	33	-10.62
				1	74	23.55	22.55	33	-10.45
				36	18	22.41	21.41	33	-11.59
				75	0	22.55	21.55	33	-11.45
	18675	1857.5	16QAM	1	0	22.71	21.71	33	-11.29
				1	74	22.54	21.54	33	-11.46
				36	18	21.69	20.69	33	-12.31
				75	0	21.52	20.52	33	-12.48
	18900	1880	16QAM	1	0	22.59	21.59	33	-11.41
				1	74	22.38	21.38	33	-11.62
				36	18	21.38	20.38	33	-12.62
				75	0	21.48	20.48	33	-12.52
	19125	1902.5	16QAM	1	0	23.03	22.03	33	-10.97
				1	74	22.63	21.63	33	-11.37
				36	18	21.55	20.55	33	-12.45
				75	0	21.60	20.60	33	-12.4
	18675	1857.5	64QAM	1	0	22.49	21.49	33	-11.51
				1	74	22.39	21.39	33	-11.61
				36	18	21.46	20.46	33	-12.54
				75	0	21.66	20.66	33	-12.34
	18900	1880	64QAM	1	0	22.46	21.46	33	-11.54
				1	74	22.23	21.23	33	-11.77
				36	18	21.50	20.50	33	-12.5
				75	0	21.48	20.48	33	-12.52
	19125	1902.5	64QAM	1	0	22.48	21.48	33	-11.52
				1	74	22.30	21.30	33	-11.7
				36	18	21.42	20.42	33	-12.58
				75	0	21.49	20.49	33	-12.51
	18675	1857.5	256QAM	1	0	19.47	18.47	33	-14.53
				1	74	19.46	18.46	33	-14.54
				36	18	19.11	18.11	33	-14.89
				75	0	19.13	18.13	33	-14.87
	18900	1880	256QAM	1	0	19.49	18.49	33	-14.51
				1	74	19.43	18.43	33	-14.57
				36	18	19.21	18.21	33	-14.79
				75	0	19.08	18.08	33	-14.92
	19125	1902.5	256QAM	1	0	19.49	18.49	33	-14.51
				1	74	19.47	18.47	33	-14.53
				36	18	19.05	18.05	33	-14.95
				75	0	19.06	18.06	33	-14.94

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Antenna gain (dBi)		-1							
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	23.59	22.59	33	-10.41
				1	99	23.52	22.52	33	-10.48
				50	25	22.72	21.72	33	-11.28
				100	0	22.71	21.71	33	-11.29
	18900	1880	QPSK	1	0	23.44	22.44	33	-10.56
				1	99	23.38	22.38	33	-10.62
				50	25	22.63	21.63	33	-11.37
				100	0	22.55	21.55	33	-11.45
	19100	1900	QPSK	1	0	23.56	22.56	33	-10.44
				1	99	23.44	22.44	33	-10.56
				50	25	22.58	21.58	33	-11.42
				100	0	22.61	21.61	33	-11.39
	18700	1860	16QAM	1	0	22.75	21.75	33	-11.25
				1	99	22.61	21.61	33	-11.39
				50	25	21.71	20.71	33	-12.29
				100	0	21.64	20.64	33	-12.36
	18900	1880	16QAM	1	0	22.74	21.74	33	-11.26
				1	99	22.45	21.45	33	-11.55
				50	25	21.55	20.55	33	-12.45
				100	0	21.54	20.54	33	-12.46
	19100	1900	16QAM	1	0	23.10	22.10	33	-10.9
				1	99	22.63	21.63	33	-11.37
				50	25	21.55	20.55	33	-12.45
				100	0	21.66	20.66	33	-12.34
	18700	1860	64QAM	1	0	22.49	21.49	33	-11.51
				1	99	22.47	21.47	33	-11.53
				50	25	21.58	20.58	33	-12.42
				100	0	21.66	20.66	33	-12.34
	18900	1880	64QAM	1	0	22.43	21.43	33	-11.57
				1	99	22.38	21.38	33	-11.62
				50	25	21.59	20.59	33	-12.41
				100	0	21.52	20.52	33	-12.48
	19100	1900	64QAM	1	0	22.46	21.46	33	-11.54
				1	99	22.35	21.35	33	-11.65
				50	25	21.56	20.56	33	-12.44
				100	0	21.60	20.60	33	-12.4
	18700	1860	256QAM	1	0	19.46	18.46	33	-14.54
				1	99	19.47	18.47	33	-14.53
				50	25	19.15	18.15	33	-14.85
				100	0	19.09	18.09	33	-14.91
18900	1880	256QAM	1	0	19.48	18.48	33	-14.52	
			1	99	19.47	18.47	33	-14.53	
			50	25	19.16	18.16	33	-14.84	
			100	0	19.11	18.11	33	-14.89	
19100	1900	256QAM	1	0	19.46	18.46	33	-14.54	
			1	99	19.47	18.47	33	-14.53	
			50	25	19.18	18.18	33	-14.82	
			100	0	19.17	18.17	33	-14.83	

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Antenna gain (dBi) 0.7									
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	23.16	23.86	30	-6.14
				1	5	23.23	23.93	30	-6.07
				3	2	23.27	23.97	30	-6.03
				6	0	22.30	23.00	30	-7
	20175	1732.5	QPSK	1	0	23.12	23.82	30	-6.18
				1	5	23.23	23.93	30	-6.07
				3	2	23.31	24.01	30	-5.99
				6	0	22.29	22.99	30	-7.01
	20393	1754.3	QPSK	1	0	23.19	23.89	30	-6.11
				1	5	23.26	23.96	30	-6.04
				3	2	23.34	24.04	30	-5.96
				6	0	22.31	23.01	30	-6.99
	19957	1710.7	16QAM	1	0	22.48	23.18	30	-6.82
				1	5	22.66	23.36	30	-6.64
				3	2	22.29	22.99	30	-7.01
				6	0	21.45	22.15	30	-7.85
	20175	1732.5	16QAM	1	0	22.48	23.18	30	-6.82
				1	5	22.46	23.16	30	-6.84
				3	2	22.26	22.96	30	-7.04
				6	0	21.29	21.99	30	-8.01
	20393	1754.3	16QAM	1	0	22.16	22.86	30	-7.14
				1	5	22.41	23.11	30	-6.89
				3	2	22.37	23.07	30	-6.93
				6	0	21.29	21.99	30	-8.01
	19957	1710.7	64QAM	1	0	22.47	23.17	30	-6.83
				1	5	22.46	23.16	30	-6.84
				3	2	22.34	23.04	30	-6.96
				6	0	21.25	21.95	30	-8.05
	20175	1732.5	64QAM	1	0	22.49	23.19	30	-6.81
				1	5	22.16	22.86	30	-7.14
				3	2	22.40	23.10	30	-6.9
				6	0	21.27	21.97	30	-8.03
	20393	1754.3	64QAM	1	0	22.44	23.14	30	-6.86
				1	5	22.47	23.17	30	-6.83
				3	2	22.14	22.84	30	-7.16
				6	0	21.36	22.06	30	-7.94
	19957	1710.7	256QAM	1	0	19.47	20.17	30	-9.83
				1	5	19.46	20.16	30	-9.84
				3	2	19.33	20.03	30	-9.97
				6	0	18.54	19.24	30	-10.76
	20175	1732.5	256QAM	1	0	19.47	20.17	30	-9.83
				1	5	19.27	19.97	30	-10.03
				3	2	19.00	19.70	30	-10.3
				6	0	18.47	19.17	30	-10.83
	20393	1754.3	256QAM	1	0	19.30	20.00	30	-10
				1	5	19.17	19.87	30	-10.13
				3	2	19.10	19.80	30	-10.2
				6	0	18.68	19.38	30	-10.62

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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	22.89	23.59	30	-6.41
				1	14	22.78	23.48	30	-6.52
				8	4	21.91	22.61	30	-7.39
				15	0	21.78	22.48	30	-7.52
	20175	1732.5	QPSK	1	0	22.92	23.62	30	-6.38
				1	14	22.84	23.54	30	-6.46
				8	4	21.76	22.46	30	-7.54
				15	0	22.07	22.77	30	-7.23
	20385	1753.5	QPSK	1	0	22.75	23.45	30	-6.55
				1	14	22.56	23.26	30	-6.74
				8	4	22.13	22.83	30	-7.17
				15	0	21.99	22.69	30	-7.31
	19965	1711.5	16QAM	1	0	22.75	23.45	30	-6.55
				1	14	21.95	22.65	30	-7.35
				8	4	21.08	21.78	30	-8.22
				15	0	20.88	21.58	30	-8.42
	20175	1732.5	16QAM	1	0	22.08	22.78	30	-7.22
				1	14	22.20	22.90	30	-7.1
				8	4	20.87	21.57	30	-8.43
				15	0	20.86	21.56	30	-8.44
	20385	1753.5	16QAM	1	0	22.23	22.93	30	-7.07
				1	14	22.29	22.99	30	-7.01
				8	4	21.23	21.93	30	-8.07
				15	0	21.07	21.77	30	-8.23
	19965	1711.5	64QAM	1	0	21.90	22.60	30	-7.4
				1	14	22.03	22.73	30	-7.27
				8	4	21.03	21.73	30	-8.27
				15	0	20.74	21.44	30	-8.56
	20175	1732.5	64QAM	1	0	22.50	23.20	30	-6.8
				1	14	21.93	22.63	30	-7.37
				8	4	20.75	21.45	30	-8.55
				15	0	20.99	21.69	30	-8.31
	20385	1753.5	64QAM	1	0	22.49	23.19	30	-6.81
				1	14	21.99	22.69	30	-7.31
				8	4	20.88	21.58	30	-8.42
				15	0	20.91	21.61	30	-8.39
19965	1711.5	256QAM	1	0	19.48	20.18	30	-9.82	
			1	14	19.23	19.93	30	-10.07	
			8	4	18.87	19.57	30	-10.43	
			15	0	18.56	19.26	30	-10.74	
20175	1732.5	256QAM	1	0	19.49	20.19	30	-9.81	
			1	14	19.42	20.12	30	-9.88	
			8	4	18.61	19.31	30	-10.69	
			15	0	18.55	19.25	30	-10.75	
20385	1753.5	256QAM	1	0	19.48	20.18	30	-9.82	
			1	14	19.34	20.04	30	-9.96	
			8	4	18.75	19.45	30	-10.55	
			15	0	18.78	19.48	30	-10.52	

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Antenna gain (dBi) 0.7									
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	23.02	23.72	30	-6.28
				1	24	23.06	23.76	30	-6.24
				12	6	22.20	22.90	30	-7.1
				25	0	21.99	22.69	30	-7.31
	20175	1732.5	QPSK	1	0	23.00	23.70	30	-6.3
				1	24	23.02	23.72	30	-6.28
				12	6	21.89	22.59	30	-7.41
				25	0	22.15	22.85	30	-7.15
	20375	1752.5	QPSK	1	0	23.03	23.73	30	-6.27
				1	24	22.81	23.51	30	-6.49
				12	6	22.35	23.05	30	-6.95
				25	0	22.20	22.90	30	-7.1
	19975	1712.5	16QAM	1	0	22.92	23.62	30	-6.38
				1	24	22.21	22.91	30	-7.09
				12	6	21.18	21.88	30	-8.12
				25	0	21.18	21.88	30	-8.12
	20175	1732.5	16QAM	1	0	22.25	22.95	30	-7.05
				1	24	22.26	22.96	30	-7.04
				12	6	21.10	21.80	30	-8.2
				25	0	20.97	21.67	30	-8.33
	20375	1752.5	16QAM	1	0	22.29	22.99	30	-7.01
				1	24	22.42	23.12	30	-6.88
				12	6	21.29	21.99	30	-8.01
				25	0	21.11	21.81	30	-8.19
	19975	1712.5	64QAM	1	0	22.10	22.80	30	-7.2
				1	24	22.11	22.81	30	-7.19
				12	6	21.23	21.93	30	-8.07
				25	0	21.02	21.72	30	-8.28
	20175	1732.5	64QAM	1	0	22.49	23.19	30	-6.81
				1	24	21.95	22.65	30	-7.35
				12	6	21.02	21.72	30	-8.28
				25	0	21.14	21.84	30	-8.16
	20375	1752.5	64QAM	1	0	22.47	23.17	30	-6.83
				1	24	22.14	22.84	30	-7.16
				12	6	21.00	21.70	30	-8.3
				25	0	21.10	21.80	30	-8.2
	19975	1712.5	256QAM	1	0	19.49	20.19	30	-9.81
				1	24	19.47	20.17	30	-9.83
				12	6	18.91	19.61	30	-10.39
				25	0	18.86	19.56	30	-10.44
	20175	1732.5	256QAM	1	0	19.49	20.19	30	-9.81
				1	24	19.44	20.14	30	-9.86
				12	6	18.84	19.54	30	-10.46
				25	0	18.74	19.44	30	-10.56
	20375	1752.5	256QAM	1	0	19.48	20.18	30	-9.82
				1	24	19.46	20.16	30	-9.84
				12	6	19.01	19.71	30	-10.29
				25	0	18.85	19.55	30	-10.45

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Antenna gain (dBi) 0.7									
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	23.15	23.85	30	-6.15
				1	49	23.19	23.89	30	-6.11
				25	12	22.20	22.90	30	-7.1
				50	0	22.15	22.85	30	-7.15
	20175	1732.5	QPSK	1	0	23.13	23.83	30	-6.17
				1	49	23.02	23.72	30	-6.28
				25	12	22.07	22.77	30	-7.23
				50	0	22.25	22.95	30	-7.05
	20375	1750	QPSK	1	0	23.07	23.77	30	-6.23
				1	49	23.00	23.70	30	-6.3
				25	12	22.36	23.06	30	-6.94
				50	0	22.33	23.03	30	-6.97
	20000	1715	16QAM	1	0	22.95	23.65	30	-6.35
				1	49	22.32	23.02	30	-6.98
				25	12	21.25	21.95	30	-8.05
				50	0	21.25	21.95	30	-8.05
	20175	1732.5	16QAM	1	0	22.38	23.08	30	-6.92
				1	49	22.43	23.13	30	-6.87
				25	12	21.18	21.88	30	-8.12
				50	0	21.05	21.75	30	-8.25
	20375	1750	16QAM	1	0	22.37	23.07	30	-6.93
				1	49	22.51	23.21	30	-6.79
				25	12	21.38	22.08	30	-7.92
				50	0	21.13	21.83	30	-8.17
	20000	1715	64QAM	1	0	22.29	22.99	30	-7.01
				1	49	22.14	22.84	30	-7.16
				25	12	21.28	21.98	30	-8.02
				50	0	21.14	21.84	30	-8.16
	20175	1732.5	64QAM	1	0	22.48	23.18	30	-6.82
				1	49	22.00	22.70	30	-7.3
				25	12	21.17	21.87	30	-8.13
				50	0	21.20	21.90	30	-8.1
	20375	1750	64QAM	1	0	22.49	23.19	30	-6.81
				1	49	22.33	23.03	30	-6.97
				25	12	21.16	21.86	30	-8.14
				50	0	21.21	21.91	30	-8.09
	20000	1715	256QAM	1	0	19.47	20.17	30	-9.83
				1	49	19.49	20.19	30	-9.81
				25	12	19.00	19.70	30	-10.3
				50	0	18.97	19.67	30	-10.33
20175	1732.5	256QAM	1	0	19.44	20.14	30	-9.86	
			1	49	19.46	20.16	30	-9.84	
			25	12	19.02	19.72	30	-10.28	
			50	0	18.92	19.62	30	-10.38	
20375	1750	256QAM	1	0	19.49	20.19	30	-9.81	
			1	49	19.47	20.17	30	-9.83	
			25	12	19.07	19.77	30	-10.23	
			50	0	18.96	19.66	30	-10.34	

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Antenna gain (dBi)		0.7		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	23.27	23.97	30	-6.03	
				1	74	23.26	23.96	30	-6.04	
				36	18	22.20	22.90	30	-7.1	
				75	0	22.19	22.89	30	-7.11	
	20175	1732.5	QPSK	1	0	23.19	23.89	30	-6.11	
				1	74	23.12	23.82	30	-6.18	
				36	18	22.24	22.94	30	-7.06	
				75	0	22.37	23.07	30	-6.93	
	20325	1747.5	QPSK	1	0	23.24	23.94	30	-6.06	
				1	74	23.04	23.74	30	-6.26	
				36	18	22.38	23.08	30	-6.92	
				75	0	22.34	23.04	30	-6.96	
	20025	1717.5	16QAM	1	0	23.00	23.70	30	-6.3	
				1	74	22.41	23.11	30	-6.89	
				36	18	21.38	22.08	30	-7.92	
				75	0	21.40	22.10	30	-7.9	
	20175	1732.5	16QAM	1	0	22.51	23.21	30	-6.79	
				1	74	22.43	23.13	30	-6.87	
				36	18	21.35	22.05	30	-7.95	
				75	0	21.22	21.92	30	-8.08	
	20325	1747.5	16QAM	1	0	22.49	23.19	30	-6.81	
				1	74	22.70	23.40	30	-6.6	
				36	18	21.49	22.19	30	-7.81	
				75	0	21.27	21.97	30	-8.03	
	20025	1717.5	64QAM	1	0	22.47	23.17	30	-6.83	
				1	74	22.16	22.86	30	-7.14	
				36	18	21.40	22.10	30	-7.9	
				75	0	21.27	21.97	30	-8.03	
	20175	1732.5	64QAM	1	0	22.48	23.18	30	-6.82	
				1	74	22.16	22.86	30	-7.14	
				36	18	21.26	21.96	30	-8.04	
				75	0	21.23	21.93	30	-8.07	
	20325	1747.5	64QAM	1	0	22.49	23.19	30	-6.81	
				1	74	22.38	23.08	30	-6.92	
				36	18	21.20	21.90	30	-8.1	
				75	0	21.30	22.00	30	-8	
	20025	1717.5	256QAM	1	0	19.32	20.02	30	-9.98	
				1	74	19.29	19.99	30	-10.01	
				36	18	18.58	19.28	30	-10.72	
				75	0	18.50	19.20	30	-10.8	
	20175	1732.5	256QAM	1	0	19.31	20.01	30	-9.99	
				1	74	19.41	20.11	30	-9.89	
				36	18	18.57	19.27	30	-10.73	
				75	0	18.53	19.23	30	-10.77	
	20325	1747.5	256QAM	1	0	19.35	20.05	30	-9.95	
				1	74	19.23	19.93	30	-10.07	
				36	18	18.60	19.30	30	-10.7	
				75	0	18.50	19.20	30	-10.8	

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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	23.38	24.08	30	-5.92
				1	99	23.37	24.07	30	-5.93
				50	25	22.39	23.09	30	-6.91
				100	0	22.35	23.05	30	-6.95
	20175	1732.5	QPSK	1	0	23.36	24.06	30	-5.94
				1	99	23.17	23.87	30	-6.13
				50	25	22.35	23.05	30	-6.95
				100	0	22.38	23.08	30	-6.92
	20300	1745	QPSK	1	0	23.34	24.04	30	-5.96
				1	99	23.21	23.91	30	-6.09
				50	25	22.41	23.11	30	-6.89
				100	0	22.40	23.10	30	-6.9
	20050	1720	16QAM	1	0	23.14	23.84	30	-6.16
				1	99	22.44	23.14	30	-6.86
				50	25	21.42	22.12	30	-7.88
				100	0	21.45	22.15	30	-7.85
	20175	1732.5	16QAM	1	0	22.56	23.26	30	-6.74
				1	99	22.43	23.13	30	-6.87
				50	25	21.40	22.10	30	-7.9
				100	0	21.31	22.01	30	-7.99
	20300	1745	16QAM	1	0	22.60	23.30	30	-6.7
				1	99	22.80	23.50	30	-6.5
				50	25	21.50	22.20	30	-7.8
				100	0	21.43	22.13	30	-7.87
	20050	1720	64QAM	1	0	22.47	23.17	30	-6.83
				1	99	22.29	22.99	30	-7.01
				50	25	21.46	22.16	30	-7.84
				100	0	21.46	22.16	30	-7.84
	20175	1732.5	64QAM	1	0	22.48	23.18	30	-6.82
				1	99	22.29	22.99	30	-7.01
				50	25	21.36	22.06	30	-7.94
				100	0	21.31	22.01	30	-7.99
	20300	1745	64QAM	1	0	22.49	23.19	30	-6.81
				1	99	22.48	23.18	30	-6.82
				50	25	21.34	22.04	30	-7.96
				100	0	21.34	22.04	30	-7.96
	20050	1720	256QAM	1	0	19.36	20.06	30	-9.94
				1	99	19.31	20.01	30	-9.99
				50	25	18.62	19.32	30	-10.68
				100	0	18.68	19.38	30	-10.62
20175	1732.5	256QAM	1	0	19.38	20.08	30	-9.92	
			1	99	19.43	20.13	30	-9.87	
			50	25	18.61	19.31	30	-10.69	
			100	0	18.69	19.39	30	-10.61	
20300	1745	256QAM	1	0	19.41	20.11	30	-9.89	
			1	99	19.36	20.06	30	-9.94	
			50	25	18.62	19.32	30	-10.68	
			100	0	18.67	19.37	30	-10.63	

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Antenna gain (dBi)		-1.8								
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	23.01	19.06	21.21	38.45	-19.39
				1	5	23.03	19.08	21.23	38.45	-19.37
				3	2	23.07	19.12	21.27	38.45	-19.33
				6	0	22.11	18.16	20.31	38.45	-20.29
	20525	836.5	QPSK	1	0	22.87	18.92	21.07	38.45	-19.53
				1	5	22.92	18.97	21.12	38.45	-19.48
				3	2	23.03	19.08	21.23	38.45	-19.37
				6	0	21.97	18.02	20.17	38.45	-20.43
	20643	848.3	QPSK	1	0	22.68	18.73	20.88	38.45	-19.72
				1	5	22.87	18.92	21.07	38.45	-19.53
				3	2	22.58	18.63	20.78	38.45	-19.82
				6	0	21.70	17.75	19.90	38.45	-20.70
	20407	824.7	16QAM	1	0	22.30	18.35	20.50	38.45	-20.10
				1	5	22.24	18.29	20.44	38.45	-20.16
				3	2	22.25	18.30	20.45	38.45	-20.15
				6	0	21.12	17.17	19.32	38.45	-21.28
	20525	836.5	16QAM	1	0	21.88	17.93	20.08	38.45	-20.52
				1	5	21.94	17.99	20.14	38.45	-20.46
				3	2	22.15	18.20	20.35	38.45	-20.25
				6	0	21.04	17.09	19.24	38.45	-21.36
	20643	848.3	16QAM	1	0	22.23	18.28	20.43	38.45	-20.17
				1	5	21.91	17.96	20.11	38.45	-20.49
				3	2	21.68	17.73	19.88	38.45	-20.72
				6	0	20.69	16.74	18.89	38.45	-21.71
	20407	824.7	64QAM	1	0	22.31	18.36	20.51	38.45	-20.09
				1	5	22.48	18.53	20.68	38.45	-19.92
				3	2	22.18	18.23	20.38	38.45	-20.22
				6	0	21.11	17.16	19.31	38.45	-21.29
	20525	836.5	64QAM	1	0	22.43	18.48	20.63	38.45	-19.97
				1	5	22.12	18.17	20.32	38.45	-20.28
				3	2	22.02	18.07	20.22	38.45	-20.38
				6	0	20.98	17.03	19.18	38.45	-21.42
	20643	848.3	64QAM	1	0	21.97	18.02	20.17	38.45	-20.43
				1	5	21.74	17.79	19.94	38.45	-20.66
				3	2	21.75	17.80	19.95	38.45	-20.65
				6	0	20.68	16.73	18.88	38.45	-21.72
	20407	824.7	256QAM	1	0	19.90	15.95	18.10	38.45	-22.50
				1	5	20.31	16.36	18.51	38.45	-22.09
				3	2	19.70	15.75	17.90	38.45	-22.70
				6	0	19.62	15.67	17.82	38.45	-22.78
	20525	836.5	256QAM	1	0	20.22	16.27	18.42	38.45	-22.18
				1	5	20.06	16.11	18.26	38.45	-22.34
				3	2	19.73	15.78	17.93	38.45	-22.67
				6	0	19.56	15.61	17.76	38.45	-22.84
	20643	848.3	256QAM	1	0	20.16	16.21	18.36	38.45	-22.24
				1	5	20.09	16.14	18.29	38.45	-22.31
				3	2	19.59	15.64	17.79	38.45	-22.81
				6	0	19.58	15.63	17.78	38.45	-22.82

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Antenna gain (dBi)		-1.8		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	22.70	18.75	20.90	38.45	-19.70
				1	14	22.71	18.76	20.91	38.45	-19.69
				8	4	21.90	17.95	20.10	38.45	-20.50
				15	0	21.88	17.93	20.08	38.45	-20.52
	20525	836.5	QPSK	1	0	22.84	18.89	21.04	38.45	-19.56
				1	14	22.87	18.92	21.07	38.45	-19.53
				8	4	22.04	18.09	20.24	38.45	-20.36
				15	0	21.86	17.91	20.06	38.45	-20.54
	20635	847.5	QPSK	1	0	22.75	18.80	20.95	38.45	-19.65
				1	14	22.58	18.63	20.78	38.45	-19.82
				8	4	21.75	17.80	19.95	38.45	-20.65
				15	0	22.02	18.07	20.22	38.45	-20.38
	20415	825.5	16QAM	1	0	22.28	18.33	20.48	38.45	-20.12
				1	14	21.72	17.77	19.92	38.45	-20.68
				8	4	21.02	17.07	19.22	38.45	-21.38
				15	0	20.89	16.94	19.09	38.45	-21.51
	20525	836.5	16QAM	1	0	22.54	18.59	20.74	38.45	-19.86
				1	14	22.23	18.28	20.43	38.45	-20.17
				8	4	20.79	16.84	18.99	38.45	-21.61
				15	0	20.89	16.94	19.09	38.45	-21.51
	20635	847.5	16QAM	1	0	22.12	18.17	20.32	38.45	-20.28
				1	14	21.96	18.01	20.16	38.45	-20.44
				8	4	20.82	16.87	19.02	38.45	-21.58
				15	0	20.91	16.96	19.11	38.45	-21.49
	20415	825.5	64QAM	1	0	22.38	18.43	20.58	38.45	-20.02
				1	14	22.46	18.51	20.66	38.45	-19.94
				8	4	21.19	17.24	19.39	38.45	-21.21
				15	0	20.92	16.97	19.12	38.45	-21.48
	20525	836.5	64QAM	1	0	22.49	18.54	20.69	38.45	-19.91
				1	14	22.10	18.15	20.30	38.45	-20.30
				8	4	21.02	17.07	19.22	38.45	-21.38
				15	0	20.99	17.04	19.19	38.45	-21.41
	20635	847.5	64QAM	1	0	22.33	18.38	20.53	38.45	-20.07
				1	14	21.71	17.76	19.91	38.45	-20.69
				8	4	21.07	17.12	19.27	38.45	-21.33
				15	0	20.68	16.73	18.88	38.45	-21.72
20415	825.5	256QAM	1	0	20.07	16.12	18.27	38.45	-22.33	
			1	14	20.35	16.40	18.55	38.45	-22.05	
			8	4	19.85	15.90	18.05	38.45	-22.55	
			15	0	19.78	15.83	17.98	38.45	-22.62	
20525	836.5	256QAM	1	0	20.39	16.44	18.59	38.45	-22.01	
			1	14	20.17	16.22	18.37	38.45	-22.23	
			8	4	19.76	15.81	17.96	38.45	-22.64	
			15	0	19.63	15.68	17.83	38.45	-22.77	
20635	847.5	256QAM	1	0	20.30	16.35	18.50	38.45	-22.10	
			1	14	20.23	16.28	18.43	38.45	-22.17	
			8	4	19.68	15.73	17.88	38.45	-22.72	
			15	0	19.74	15.79	17.94	38.45	-22.66	

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Antenna gain (dBi)										
-1.8										
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	22.89	18.94	21.09	38.45	-19.51
				1	24	22.76	18.81	20.96	38.45	-19.64
				12	6	21.92	17.97	20.12	38.45	-20.48
				25	0	22.05	18.10	20.25	38.45	-20.35
	20525	836.5	QPSK	1	0	23.01	19.06	21.21	38.45	-19.39
				1	24	22.98	19.03	21.18	38.45	-19.42
				12	6	22.05	18.10	20.25	38.45	-20.35
				25	0	22.05	18.10	20.25	38.45	-20.35
	20625	846.5	QPSK	1	0	22.82	18.87	21.02	38.45	-19.58
				1	24	22.68	18.73	20.88	38.45	-19.72
				12	6	21.85	17.90	20.05	38.45	-20.55
				25	0	22.02	18.07	20.22	38.45	-20.38
	20425	826.5	16QAM	1	0	22.28	18.33	20.48	38.45	-20.12
				1	24	21.89	17.94	20.09	38.45	-20.51
				12	6	21.08	17.13	19.28	38.45	-21.32
				25	0	21.02	17.07	19.22	38.45	-21.38
	20525	836.5	16QAM	1	0	22.58	18.63	20.78	38.45	-19.82
				1	24	22.35	18.40	20.55	38.45	-20.05
				12	6	20.92	16.97	19.12	38.45	-21.48
				25	0	21.05	17.10	19.25	38.45	-21.35
	20625	846.5	16QAM	1	0	22.25	18.30	20.45	38.45	-20.15
				1	24	22.11	18.16	20.31	38.45	-20.29
				12	6	20.98	17.03	19.18	38.45	-21.42
				25	0	20.93	16.98	19.13	38.45	-21.47
	20425	826.5	64QAM	1	0	22.49	18.54	20.69	38.45	-19.91
				1	24	22.46	18.51	20.66	38.45	-19.94
				12	6	21.27	17.32	19.47	38.45	-21.13
				25	0	22.44	18.49	20.64	38.45	-19.96
	20525	836.5	64QAM	1	0	22.35	18.40	20.55	38.45	-20.05
				1	24	22.19	18.24	20.39	38.45	-20.21
				12	6	21.12	17.17	19.32	38.45	-21.28
				25	0	21.17	17.22	19.37	38.45	-21.23
	20625	846.5	64QAM	1	0	22.45	18.50	20.65	38.45	-19.95
				1	24	21.85	17.90	20.05	38.45	-20.55
				12	6	21.07	17.12	19.27	38.45	-21.33
				25	0	20.87	16.92	19.07	38.45	-21.53
	20425	826.5	256QAM	1	0	20.41	16.46	18.61	38.45	-21.99
				1	24	20.35	16.40	18.55	38.45	-22.05
				12	6	19.91	15.96	18.11	38.45	-22.49
				25	0	19.82	15.87	18.02	38.45	-22.58
	20525	836.5	256QAM	1	0	20.44	16.49	18.64	38.45	-21.96
				1	24	20.23	16.28	18.43	38.45	-22.17
				12	6	19.80	15.85	18.00	38.45	-22.60
				25	0	19.81	15.86	18.01	38.45	-22.59
	20625	846.5	256QAM	1	0	20.47	16.52	18.67	38.45	-21.93
				1	24	20.28	16.33	18.48	38.45	-22.12
				12	6	19.74	15.79	17.94	38.45	-22.66
				25	0	19.83	15.88	18.03	38.45	-22.57

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Antenna gain (dBi)		-1.8		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	23.03	19.08	21.23	38.45	-19.37
				1	49	22.87	18.92	21.07	38.45	-19.53
				25	12	22.11	18.16	20.31	38.45	-20.29
				50	0	22.22	18.27	20.42	38.45	-20.18
	20525	836.5	QPSK	1	0	23.09	19.14	21.29	38.45	-19.31
				1	49	23.07	19.12	21.27	38.45	-19.33
				25	12	22.07	18.12	20.27	38.45	-20.33
				50	0	22.17	18.22	20.37	38.45	-20.23
	20600	844	QPSK	1	0	22.98	19.03	21.18	38.45	-19.42
				1	49	22.54	18.59	20.74	38.45	-19.86
				25	12	22.00	18.05	20.20	38.45	-20.40
				50	0	22.05	18.10	20.25	38.45	-20.35
	20450	829	16QAM	1	0	22.36	18.41	20.56	38.45	-20.04
				1	49	21.92	17.97	20.12	38.45	-20.48
				25	12	21.15	17.20	19.35	38.45	-21.25
				50	0	21.21	17.26	19.41	38.45	-21.19
	20525	836.5	16QAM	1	0	22.75	18.80	20.95	38.45	-19.65
				1	49	22.35	18.40	20.55	38.45	-20.05
				25	12	21.08	17.13	19.28	38.45	-21.32
				50	0	21.08	17.13	19.28	38.45	-21.32
	20600	844	16QAM	1	0	22.33	18.38	20.53	38.45	-20.07
				1	49	22.28	18.33	20.48	38.45	-20.12
				25	12	21.09	17.14	19.29	38.45	-21.31
				50	0	21.03	17.08	19.23	38.45	-21.37
	20450	829	64QAM	1	0	22.48	18.53	20.68	38.45	-19.92
				1	49	22.49	18.54	20.69	38.45	-19.91
				25	12	21.27	17.32	19.47	38.45	-21.13
				50	0	21.16	17.21	19.36	38.45	-21.24
	20525	836.5	64QAM	1	0	22.47	18.52	20.67	38.45	-19.93
				1	49	22.25	18.30	20.45	38.45	-20.15
				25	12	21.15	17.20	19.35	38.45	-21.25
				50	0	21.21	17.26	19.41	38.45	-21.19
	20600	844	64QAM	1	0	22.46	18.51	20.66	38.45	-19.94
				1	49	21.86	17.91	20.06	38.45	-20.54
				25	12	21.15	17.20	19.35	38.45	-21.25
				50	0	21.06	17.11	19.26	38.45	-21.34
	20450	829	256QAM	1	0	20.34	16.39	18.54	38.45	-22.06
				1	49	20.50	16.55	18.70	38.45	-21.90
				25	12	19.93	15.98	18.13	38.45	-22.47
				50	0	19.98	16.03	18.18	38.45	-22.42
20525	836.5	256QAM	1	0	20.44	16.49	18.64	38.45	-21.96	
			1	49	20.40	16.45	18.60	38.45	-22.00	
			25	12	19.86	15.91	18.06	38.45	-22.54	
			50	0	19.81	15.86	18.01	38.45	-22.59	
20600	844	256QAM	1	0	20.47	16.52	18.67	38.45	-21.93	
			1	49	20.43	16.48	18.63	38.45	-21.97	
			25	12	19.81	15.86	18.01	38.45	-22.59	
			50	0	19.91	15.96	18.11	38.45	-22.49	

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LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20775	2502.5	QPSK	1	0	22.43	21.93	33	-11.07
				1	24	22.45	21.95	33	-11.05
				12	6	21.62	21.12	33	-11.88
				25	0	21.56	21.06	33	-11.94
	21100	2535	QPSK	1	0	22.37	21.87	33	-11.13
				1	24	22.41	21.91	33	-11.09
				12	6	21.60	21.10	33	-11.9
				25	0	21.63	21.13	33	-11.87
	21375	2567.5	QPSK	1	0	22.46	21.96	33	-11.04
				1	24	22.47	21.97	33	-11.03
				12	6	21.66	21.16	33	-11.84
				25	0	21.68	21.18	33	-11.82
	20775	2502.5	16QAM	1	0	21.74	21.24	33	-11.76
				1	24	21.66	21.16	33	-11.84
				12	6	20.65	20.15	33	-12.85
				25	0	20.54	20.04	33	-12.96
	21100	2535	16QAM	1	0	21.80	21.30	33	-11.7
				1	24	21.70	21.20	33	-11.8
				12	6	20.65	20.15	33	-12.85
				25	0	20.62	20.12	33	-12.88
	21375	2567.5	16QAM	1	0	21.66	21.16	33	-11.84
				1	24	21.64	21.14	33	-11.86
				12	6	20.68	20.18	33	-12.82
				25	0	20.68	20.18	33	-12.82
	20775	2502.5	64QAM	1	0	21.50	21.00	33	-12
				1	24	21.46	20.96	33	-12.04
				12	6	20.59	20.09	33	-12.91
				25	0	20.63	20.13	33	-12.87
	21100	2535	64QAM	1	0	21.48	20.98	33	-12.02
				1	24	21.44	20.94	33	-12.06
				12	6	20.54	20.04	33	-12.96
				25	0	20.50	20.00	33	-13
	21375	2567.5	64QAM	1	0	21.48	20.98	33	-12.02
				1	24	21.47	20.97	33	-12.03
				12	6	20.57	20.07	33	-12.93
				25	0	20.61	20.11	33	-12.89
	20775	2502.5	256QAM	1	0	18.49	17.99	33	-15.01
				1	24	18.43	17.93	33	-15.07
				12	6	18.18	17.68	33	-15.32
				25	0	18.30	17.80	33	-15.2
	21100	2535	256QAM	1	0	18.47	17.97	33	-15.03
				1	24	18.41	17.91	33	-15.09
				12	6	18.08	17.58	33	-15.42
				25	0	18.10	17.60	33	-15.4
	21375	2567.5	256QAM	1	0	18.41	17.91	33	-15.09
				1	24	18.35	17.85	33	-15.15
				12	6	18.04	17.54	33	-15.46
				25	0	18.17	17.67	33	-15.33

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Antenna gain (dBi)		-0.5							
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	22.29	21.79	33	-11.21
				1	49	22.53	22.03	33	-10.97
				25	12	21.45	20.95	33	-12.05
				50	0	21.46	20.96	33	-12.04
	21100	2535	QPSK	1	0	22.28	21.78	33	-11.22
				1	49	22.39	21.89	33	-11.11
				25	12	21.45	20.95	33	-12.05
				50	0	21.48	20.98	33	-12.02
	21350	2565	QPSK	1	0	22.24	21.74	33	-11.26
				1	49	22.54	22.04	33	-10.96
				25	12	21.47	20.97	33	-12.03
				50	0	21.48	20.98	33	-12.02
	20800	2505	16QAM	1	0	21.47	20.97	33	-12.03
				1	49	21.43	20.93	33	-12.07
				25	12	20.47	19.97	33	-13.03
				50	0	20.31	19.81	33	-13.19
	21100	2535	16QAM	1	0	21.52	21.02	33	-11.98
				1	49	21.50	21.00	33	-12
				25	12	20.48	19.98	33	-13.02
				50	0	20.48	19.98	33	-13.02
	21350	2565	16QAM	1	0	21.33	20.83	33	-12.17
				1	49	21.75	21.25	33	-11.75
				25	12	20.48	19.98	33	-13.02
				50	0	20.28	19.78	33	-13.22
	20800	2505	64QAM	1	0	21.48	20.98	33	-12.02
				1	49	21.25	20.75	33	-12.25
				25	12	20.46	19.96	33	-13.04
				50	0	20.47	19.97	33	-13.03
	21100	2535	64QAM	1	0	21.32	20.82	33	-12.18
				1	49	21.49	20.99	33	-12.01
				25	12	20.34	19.84	33	-13.16
				50	0	20.67	20.17	33	-12.83
	21350	2565	64QAM	1	0	21.32	20.82	33	-12.18
				1	49	21.24	20.74	33	-12.26
				25	12	20.40	19.90	33	-13.1
				50	0	20.59	20.09	33	-12.91
	20800	2505	256QAM	1	0	18.38	17.88	33	-15.12
				1	49	18.42	17.92	33	-15.08
				25	12	18.04	17.54	33	-15.46
				50	0	18.03	17.53	33	-15.47
	21100	2535	256QAM	1	0	18.32	17.82	33	-15.18
				1	49	18.45	17.95	33	-15.05
				25	12	17.94	17.44	33	-15.56
				50	0	17.98	17.48	33	-15.52
	21350	2565	256QAM	1	0	18.30	17.80	33	-15.2
				1	49	18.45	17.95	33	-15.05
				25	12	17.93	17.43	33	-15.57
				50	0	17.97	17.47	33	-15.53

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Antenna gain (dBi)		-0.5							
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	22.37	21.87	33	-11.13
				1	74	22.64	22.14	33	-10.86
				36	18	21.55	21.05	33	-11.95
				75	0	21.48	20.98	33	-12.02
	21100	2535	QPSK	1	0	22.42	21.92	33	-11.08
				1	74	22.53	22.03	33	-10.97
				36	18	21.56	21.06	33	-11.94
				75	0	21.65	21.15	33	-11.85
	21375	2562.5	QPSK	1	0	22.33	21.83	33	-11.17
				1	74	22.61	22.11	33	-10.89
				36	18	21.57	21.07	33	-11.93
				75	0	21.51	21.01	33	-11.99
	20825	2507.5	16QAM	1	0	21.53	21.03	33	-11.97
				1	74	21.59	21.09	33	-11.91
				36	18	20.48	19.98	33	-13.02
				75	0	20.37	19.87	33	-13.13
	21100	2535	16QAM	1	0	21.71	21.21	33	-11.79
				1	74	21.53	21.03	33	-11.97
				36	18	20.56	20.06	33	-12.94
				75	0	20.54	20.04	33	-12.96
	21375	2562.5	16QAM	1	0	21.48	20.98	33	-12.02
				1	74	21.94	21.44	33	-11.56
				36	18	20.50	20.00	33	-13
				75	0	20.47	19.97	33	-13.03
	20825	2507.5	64QAM	1	0	21.47	20.97	33	-12.03
				1	74	21.37	20.87	33	-12.13
				36	18	20.52	20.02	33	-12.98
				75	0	20.51	20.01	33	-12.99
	21100	2535	64QAM	1	0	21.46	20.96	33	-12.04
				1	74	21.49	20.99	33	-12.01
				36	18	20.45	19.95	33	-13.05
				75	0	20.68	20.18	33	-12.82
	21375	2562.5	64QAM	1	0	21.44	20.94	33	-12.06
				1	74	21.36	20.86	33	-12.14
				36	18	20.50	20.00	33	-13
				75	0	20.64	20.14	33	-12.86
	20825	2507.5	256QAM	1	0	18.31	17.81	33	-15.19
				1	74	18.46	17.96	33	-15.04
				36	18	18.02	17.52	33	-15.48
				75	0	17.93	17.43	33	-15.57
	21100	2535	256QAM	1	0	18.18	17.68	33	-15.32
				1	74	18.48	17.98	33	-15.02
				36	18	17.95	17.45	33	-15.55
				75	0	17.85	17.35	33	-15.65
	21375	2562.5	256QAM	1	0	18.34	17.84	33	-15.16
				1	74	18.44	17.94	33	-15.06
				36	18	17.97	17.47	33	-15.53
				75	0	17.93	17.43	33	-15.57

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Antenna gain (dBi)		-0.5							
LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20850	2510	QPSK	1	0	22.55	22.05	33	-10.95
				1	99	22.70	22.20	33	-10.8
				50	25	21.61	21.11	33	-11.89
				100	0	21.58	21.08	33	-11.92
	21100	2535	QPSK	1	0	22.51	22.01	33	-10.99
				1	99	22.60	22.10	33	-10.9
				50	25	21.62	21.12	33	-11.88
				100	0	21.68	21.18	33	-11.82
	21350	2560	QPSK	1	0	22.50	22.00	33	-11
				1	99	22.71	22.21	33	-10.79
				50	25	21.67	21.17	33	-11.83
				100	0	21.62	21.12	33	-11.88
	20850	2510	16QAM	1	0	21.58	21.08	33	-11.92
				1	99	21.73	21.23	33	-11.77
				50	25	20.57	20.07	33	-12.93
				100	0	20.54	20.04	33	-12.96
	21100	2535	16QAM	1	0	21.86	21.36	33	-11.64
				1	99	21.63	21.13	33	-11.87
				50	25	20.71	20.21	33	-12.79
				100	0	20.67	20.17	33	-12.83
	21350	2560	16QAM	1	0	21.61	21.11	33	-11.89
				1	99	22.10	21.60	33	-11.4
				50	25	20.67	20.17	33	-12.83
				100	0	20.64	20.14	33	-12.86
	20850	2510	64QAM	1	0	21.49	20.99	33	-12.01
				1	99	21.42	20.92	33	-12.08
				50	25	20.57	20.07	33	-12.93
				100	0	20.59	20.09	33	-12.91
	21100	2535	64QAM	1	0	21.48	20.98	33	-12.02
				1	99	21.43	20.93	33	-12.07
				50	25	20.60	20.10	33	-12.9
				100	0	20.77	20.27	33	-12.73
	21350	2560	64QAM	1	0	21.44	20.94	33	-12.06
				1	99	21.46	20.96	33	-12.04
				50	25	20.68	20.18	33	-12.82
				100	0	20.66	20.16	33	-12.84
	20850	2510	256QAM	1	0	18.40	17.90	33	-15.1
				1	99	18.50	18.00	33	-15
				50	25	18.04	17.54	33	-15.46
				100	0	18.00	17.50	33	-15.5
	21100	2535	256QAM	1	0	18.36	17.86	33	-15.14
				1	99	18.48	17.98	33	-15.02
				50	25	18.02	17.52	33	-15.48
				100	0	17.87	17.37	33	-15.63
	21350	2560	256QAM	1	0	18.40	17.90	33	-15.1
				1	99	18.49	17.99	33	-15.01
				50	25	18.03	17.53	33	-15.47
				100	0	17.98	17.48	33	-15.52

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Antenna gain (dBi)		-3.8		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	22.70	16.75	18.90	34.77	-18.02
				1	5	22.70	16.75	18.90	34.77	-18.02
				3	2	22.79	16.84	18.99	34.77	-17.93
				6	0	21.72	15.77	17.92	34.77	-19.00
	23095	707.5	QPSK	1	0	22.66	16.71	18.86	34.77	-18.06
				1	5	22.78	16.83	18.98	34.77	-17.94
				3	2	22.76	16.81	18.96	34.77	-17.96
				6	0	21.70	15.75	17.90	34.77	-19.02
	23173	715.5	QPSK	1	0	22.59	16.64	18.79	34.77	-18.13
				1	5	22.59	16.64	18.79	34.77	-18.13
				3	2	22.67	16.72	18.87	34.77	-18.05
				6	0	21.62	15.67	17.82	34.77	-19.10
	23017	699.7	16QAM	1	0	21.77	15.82	17.97	34.77	-18.95
				1	5	21.88	15.93	18.08	34.77	-18.84
				3	2	21.85	15.90	18.05	34.77	-18.87
				6	0	20.84	14.89	17.04	34.77	-19.88
	23095	707.5	16QAM	1	0	22.16	16.21	18.36	34.77	-18.56
				1	5	21.89	15.94	18.09	34.77	-18.83
				3	2	21.94	15.99	18.14	34.77	-18.78
				6	0	20.79	14.84	16.99	34.77	-19.93
	23173	715.5	16QAM	1	0	21.73	15.78	17.93	34.77	-18.99
				1	5	21.81	15.86	18.01	34.77	-18.91
				3	2	21.70	15.75	17.90	34.77	-19.02
				6	0	20.89	14.94	17.09	34.77	-19.83
	23017	699.7	64QAM	1	0	22.23	16.28	18.43	34.77	-18.49
				1	5	21.93	15.98	18.13	34.77	-18.79
				3	2	21.74	15.79	17.94	34.77	-18.98
				6	0	20.63	14.68	16.83	34.77	-20.09
	23095	707.5	64QAM	1	0	21.87	15.92	18.07	34.77	-18.85
				1	5	21.92	15.97	18.12	34.77	-18.80
				3	2	21.95	16.00	18.15	34.77	-18.77
				6	0	20.84	14.89	17.04	34.77	-19.88
	23173	715.5	64QAM	1	0	22.12	16.17	18.32	34.77	-18.60
				1	5	21.62	15.67	17.82	34.77	-19.10
				3	2	21.75	15.80	17.95	34.77	-18.97
				6	0	20.61	14.66	16.81	34.77	-20.11
	23017	699.7	256QAM	1	0	19.17	13.22	15.37	34.77	-21.55
				1	5	19.17	13.22	15.37	34.77	-21.55
				3	2	18.97	13.02	15.17	34.77	-21.75
				6	0	18.28	12.33	14.48	34.77	-22.44
	23095	707.5	256QAM	1	0	19.26	13.31	15.46	34.77	-21.46
				1	5	19.13	13.18	15.33	34.77	-21.59
				3	2	19.03	13.08	15.23	34.77	-21.69
				6	0	18.06	12.11	14.26	34.77	-22.66
	23173	715.5	256QAM	1	0	19.22	13.27	15.42	34.77	-21.50
				1	5	19.08	13.13	15.28	34.77	-21.64
				3	2	19.04	13.09	15.24	34.77	-21.68
				6	0	18.11	12.16	14.31	34.77	-22.61

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Antenna gain (dBi)		-3.8								
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	22.68	16.73	18.88	34.77	-18.04
				1	14	22.51	16.56	18.71	34.77	-18.21
				8	4	21.75	15.80	17.95	34.77	-18.97
				15	0	21.74	15.79	17.94	34.77	-18.98
	23095	707.5	QPSK	1	0	22.55	16.60	18.75	34.77	-18.17
				1	14	22.57	16.62	18.77	34.77	-18.15
				8	4	21.74	15.79	17.94	34.77	-18.98
				15	0	21.57	15.62	17.77	34.77	-19.15
	23165	714.5	QPSK	1	0	22.83	16.88	19.03	34.77	-17.89
				1	14	22.55	16.60	18.75	34.77	-18.17
				8	4	21.56	15.61	17.76	34.77	-19.16
				15	0	21.65	15.70	17.85	34.77	-19.07
	23025	700.5	16QAM	1	0	21.73	15.78	17.93	34.77	-18.99
				1	14	22.29	16.34	18.49	34.77	-18.43
				8	4	20.72	14.77	16.92	34.77	-20.00
				15	0	20.70	14.75	16.90	34.77	-20.02
	23095	707.5	16QAM	1	0	22.24	16.29	18.44	34.77	-18.48
				1	14	21.72	15.77	17.92	34.77	-19.00
				8	4	20.52	14.57	16.72	34.77	-20.20
				15	0	20.67	14.72	16.87	34.77	-20.05
	23165	714.5	16QAM	1	0	21.62	15.67	17.82	34.77	-19.10
				1	14	21.78	15.83	17.98	34.77	-18.94
				8	4	20.67	14.72	16.87	34.77	-20.05
				15	0	20.74	14.79	16.94	34.77	-19.98
	23025	700.5	64QAM	1	0	22.15	16.20	18.35	34.77	-18.57
				1	14	22.18	16.23	18.38	34.77	-18.54
				8	4	20.83	14.88	17.03	34.77	-19.89
				15	0	20.86	14.91	17.06	34.77	-19.86
	23095	707.5	64QAM	1	0	21.90	15.95	18.10	34.77	-18.82
				1	14	22.13	16.18	18.33	34.77	-18.59
				8	4	20.69	14.74	16.89	34.77	-20.03
				15	0	20.63	14.68	16.83	34.77	-20.09
	23165	714.5	64QAM	1	0	22.15	16.20	18.35	34.77	-18.57
				1	14	22.28	16.33	18.48	34.77	-18.44
				8	4	20.66	14.71	16.86	34.77	-20.06
				15	0	20.72	14.77	16.92	34.77	-20.00
	23025	700.5	256QAM	1	0	19.17	13.22	15.37	34.77	-21.55
				1	14	19.22	13.27	15.42	34.77	-21.50
				8	4	18.34	12.39	14.54	34.77	-22.38
				15	0	18.37	12.42	14.57	34.77	-22.35
	23095	707.5	256QAM	1	0	19.37	13.42	15.57	34.77	-21.35
				1	14	19.18	13.23	15.38	34.77	-21.54
				8	4	18.23	12.28	14.43	34.77	-22.49
				15	0	18.17	12.22	14.37	34.77	-22.55
	23165	714.5	256QAM	1	0	19.27	13.32	15.47	34.77	-21.45
				1	14	19.14	13.19	15.34	34.77	-21.58
				8	4	18.07	12.12	14.27	34.77	-22.65
				15	0	18.30	12.35	14.50	34.77	-22.42

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Antenna gain (dBi)		-3.8								
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	22.70	16.75	18.90	34.77	-18.02
				1	24	22.63	16.68	18.83	34.77	-18.09
				12	6	21.82	15.87	18.02	34.77	-18.90
				25	0	21.93	15.98	18.13	34.77	-18.79
	23095	707.5	QPSK	1	0	22.64	16.69	18.84	34.77	-18.08
				1	24	22.70	16.75	18.90	34.77	-18.02
				12	6	21.80	15.85	18.00	34.77	-18.92
				25	0	21.63	15.68	17.83	34.77	-19.09
	23155	713.5	QPSK	1	0	22.86	16.91	19.06	34.77	-17.86
				1	24	22.51	16.56	18.71	34.77	-18.21
				12	6	21.75	15.80	17.95	34.77	-18.97
				25	0	21.69	15.74	17.89	34.77	-19.03
	23035	701.5	16QAM	1	0	21.88	15.93	18.08	34.77	-18.84
				1	24	22.34	16.39	18.54	34.77	-18.38
				12	6	20.91	14.96	17.11	34.77	-19.81
				25	0	20.76	14.81	16.96	34.77	-19.96
	23095	707.5	16QAM	1	0	22.25	16.30	18.45	34.77	-18.47
				1	24	21.82	15.87	18.02	34.77	-18.90
				12	6	20.50	14.55	16.70	34.77	-20.22
				25	0	20.81	14.86	17.01	34.77	-19.91
	23155	713.5	16QAM	1	0	21.65	15.70	17.85	34.77	-19.07
				1	24	21.96	16.01	18.16	34.77	-18.76
				12	6	20.78	14.83	16.98	34.77	-19.94
				25	0	20.80	14.85	17.00	34.77	-19.92
	23035	701.5	64QAM	1	0	22.20	16.25	18.40	34.77	-18.52
				1	24	22.31	16.36	18.51	34.77	-18.41
				12	6	20.96	15.01	17.16	34.77	-19.76
				25	0	20.88	14.93	17.08	34.77	-19.84
	23095	707.5	64QAM	1	0	21.94	15.99	18.14	34.77	-18.78
				1	24	22.25	16.30	18.45	34.77	-18.47
				12	6	20.78	14.83	16.98	34.77	-19.94
				25	0	20.77	14.82	16.97	34.77	-19.95
	23155	713.5	64QAM	1	0	22.24	16.29	18.44	34.77	-18.48
				1	24	22.30	16.35	18.50	34.77	-18.42
				12	6	20.74	14.79	16.94	34.77	-19.98
				25	0	20.83	14.88	17.03	34.77	-19.89
	23035	701.5	256QAM	1	0	19.32	13.37	15.52	34.77	-21.40
				1	24	19.32	13.37	15.52	34.77	-21.40
				12	6	18.39	12.44	14.59	34.77	-22.33
				25	0	18.38	12.43	14.58	34.77	-22.34
	23095	707.5	256QAM	1	0	19.42	13.47	15.62	34.77	-21.30
				1	24	19.35	13.40	15.55	34.77	-21.37
				12	6	18.33	12.38	14.53	34.77	-22.39
				25	0	18.24	12.29	14.44	34.77	-22.48
	23155	713.5	256QAM	1	0	19.45	13.50	15.65	34.77	-21.27
				1	24	19.27	13.32	15.47	34.77	-21.45
				12	6	18.15	12.20	14.35	34.77	-22.57
				25	0	18.37	12.42	14.57	34.77	-22.35

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Antenna gain (dBi)		-3.8								
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	22.82	16.87	19.02	34.77	-17.90
				1	49	22.72	16.77	18.92	34.77	-18.00
				25	12	21.88	15.93	18.08	34.77	-18.84
				50	0	21.97	16.02	18.17	34.77	-18.75
	23095	707.5	QPSK	1	0	22.79	16.84	18.99	34.77	-17.93
				1	49	22.78	16.83	18.98	34.77	-17.94
				25	12	21.85	15.90	18.05	34.77	-18.87
				50	0	21.80	15.85	18.00	34.77	-18.92
	23130	711	QPSK	1	0	22.92	16.97	19.12	34.77	-17.80
				1	49	22.67	16.72	18.87	34.77	-18.05
				25	12	21.77	15.82	17.97	34.77	-18.95
				50	0	21.81	15.86	18.01	34.77	-18.91
	23060	704	16QAM	1	0	22.01	16.06	18.21	34.77	-18.71
				1	49	22.45	16.50	18.65	34.77	-18.27
				25	12	20.94	14.99	17.14	34.77	-19.78
				50	0	20.93	14.98	17.13	34.77	-19.79
	23095	707.5	16QAM	1	0	22.34	16.39	18.54	34.77	-18.38
				1	49	22.00	16.05	18.20	34.77	-18.72
				25	12	20.69	14.74	16.89	34.77	-20.03
				50	0	20.89	14.94	17.09	34.77	-19.83
	23130	711	16QAM	1	0	21.81	15.86	18.01	34.77	-18.91
				1	49	22.14	16.19	18.34	34.77	-18.58
				25	12	20.80	14.85	17.00	34.77	-19.92
				50	0	20.85	14.90	17.05	34.77	-19.87
	23060	704	64QAM	1	0	22.24	16.29	18.44	34.77	-18.48
				1	49	22.34	16.39	18.54	34.77	-18.38
				25	12	20.97	15.02	17.17	34.77	-19.75
				50	0	21.01	15.06	17.21	34.77	-19.71
	23095	707.5	64QAM	1	0	22.00	16.05	18.20	34.77	-18.72
				1	49	22.26	16.31	18.46	34.77	-18.46
				25	12	20.90	14.95	17.10	34.77	-19.82
				50	0	20.91	14.96	17.11	34.77	-19.81
	23130	711	64QAM	1	0	22.31	16.36	18.51	34.77	-18.41
				1	49	22.38	16.43	18.58	34.77	-18.34
				25	12	20.85	14.90	17.05	34.77	-19.87
				50	0	20.87	14.92	17.07	34.77	-19.85
	23060	704	256QAM	1	0	19.37	13.42	15.57	34.77	-21.35
				1	49	19.36	13.41	15.56	34.77	-21.36
				25	12	18.50	12.55	14.70	34.77	-22.22
				50	0	18.44	12.49	14.64	34.77	-22.28
	23095	707.5	256QAM	1	0	19.44	13.49	15.64	34.77	-21.28
				1	49	19.39	13.44	15.59	34.77	-21.33
				25	12	18.33	12.38	14.53	34.77	-22.39
				50	0	18.37	12.42	14.57	34.77	-22.35
	23130	711	256QAM	1	0	19.46	13.51	15.66	34.77	-21.26
				1	49	19.41	13.46	15.61	34.77	-21.31
				25	12	18.32	12.37	14.52	34.77	-22.40
				50	0	18.38	12.43	14.58	34.77	-22.34

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Antenna gain (dBi)		-1.6								
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	22.98	19.23	21.38	34.77	-15.54
				1	24	22.77	19.02	21.17	34.77	-15.75
				12	6	22.35	18.60	20.75	34.77	-16.17
				25	0	22.32	18.57	20.72	34.77	-16.20
	23230	782	QPSK	1	0	22.98	19.23	21.38	34.77	-15.54
				1	24	22.82	19.07	21.22	34.77	-15.70
				12	6	22.32	18.57	20.72	34.77	-16.20
				25	0	22.49	18.74	20.89	34.77	-16.03
	23255	784.5	QPSK	1	0	23.26	19.51	21.66	34.77	-15.26
				1	24	23.07	19.32	21.47	34.77	-15.45
				12	6	22.31	18.56	20.71	34.77	-16.21
				25	0	22.42	18.67	20.82	34.77	-16.10
	23205	779.5	16QAM	1	0	22.33	18.58	20.73	34.77	-16.19
				1	24	22.34	18.59	20.74	34.77	-16.18
				12	6	21.39	17.64	19.79	34.77	-17.13
				25	0	21.37	17.62	19.77	34.77	-17.15
	23230	782	16QAM	1	0	22.36	18.61	20.76	34.77	-16.16
				1	24	22.40	18.65	20.80	34.77	-16.12
				12	6	21.44	17.69	19.84	34.77	-17.08
				25	0	21.33	17.58	19.73	34.77	-17.19
	23255	784.5	16QAM	1	0	22.44	18.69	20.84	34.77	-16.08
				1	24	22.44	18.69	20.84	34.77	-16.08
				12	6	21.36	17.61	19.76	34.77	-17.16
				25	0	21.49	17.74	19.89	34.77	-17.03
	23205	779.5	64QAM	1	0	22.22	18.47	20.62	34.77	-16.30
				1	24	22.35	18.60	20.75	34.77	-16.17
				12	6	21.35	17.60	19.75	34.77	-17.17
				25	0	21.37	17.62	19.77	34.77	-17.15
	23230	782	64QAM	1	0	22.32	18.57	20.72	34.77	-16.20
				1	24	22.33	18.58	20.73	34.77	-16.19
				12	6	21.36	17.61	19.76	34.77	-17.16
				25	0	21.48	17.73	19.88	34.77	-17.04
	23255	784.5	64QAM	1	0	22.41	18.66	20.81	34.77	-16.11
				1	24	22.39	18.64	20.79	34.77	-16.13
				12	6	21.35	17.60	19.75	34.77	-17.17
				25	0	21.32	17.57	19.72	34.77	-17.20
	23205	779.5	256QAM	1	0	19.50	15.75	17.90	34.77	-19.02
				1	24	19.33	15.58	17.73	34.77	-19.19
				12	6	18.46	14.71	16.86	34.77	-20.06
				25	0	18.46	14.71	16.86	34.77	-20.06
	23230	782	256QAM	1	0	19.47	15.72	17.87	34.77	-19.05
				1	24	19.34	15.59	17.74	34.77	-19.18
				12	6	18.40	14.65	16.80	34.77	-20.12
				25	0	18.34	14.59	16.74	34.77	-20.18
	23255	784.5	256QAM	1	0	19.39	15.64	17.79	34.77	-19.13
				1	24	19.46	15.71	17.86	34.77	-19.06
				12	6	18.35	14.60	16.75	34.77	-20.17
				25	0	18.33	14.58	16.73	34.77	-20.19

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Antenna gain (dBi)		-1.6								
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	23.10	19.35	21.50	34.77	-15.42
				1	49	23.40	19.65	21.80	34.77	-15.12
				25	12	22.27	18.52	20.67	34.77	-16.25
				50	0	22.16	18.41	20.56	34.77	-16.36
	23230	782	16QAM	1	0	22.54	18.79	20.94	34.77	-15.98
				1	49	22.45	18.70	20.85	34.77	-16.07
				25	12	21.20	17.45	19.60	34.77	-17.32
				50	0	21.24	17.49	19.64	34.77	-17.28
	23230	782	64QAM	1	0	22.49	18.74	20.89	34.77	-16.03
				1	49	22.29	18.54	20.69	34.77	-16.23
				25	12	21.27	17.52	19.67	34.77	-17.25
				50	0	21.06	17.31	19.46	34.77	-17.46
	23230	782	256QAM	1	0	19.36	15.61	17.76	34.77	-19.16
				1	49	19.35	15.60	17.75	34.77	-19.17
				25	12	18.94	15.19	17.34	34.77	-19.58
				50	0	18.98	15.23	17.38	34.77	-19.54

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Antenna gain (dBi) -3.9

LTE Band 17_Uplink frequency band : 704 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	23755	706.5	QPSK	1	0	22.63	16.58	18.73	34.77	-18.19
				1	24	22.84	16.79	18.94	34.77	-17.98
				12	6	21.82	15.77	17.92	34.77	-19.00
				25	0	21.84	15.79	17.94	34.77	-18.98
	23790	710	QPSK	1	0	22.69	16.64	18.79	34.77	-18.13
				1	24	22.81	16.76	18.91	34.77	-18.01
				12	6	21.71	15.66	17.81	34.77	-19.11
				25	0	21.83	15.78	17.93	34.77	-18.99
	23825	713.5	QPSK	1	0	22.63	16.58	18.73	34.77	-18.19
				1	24	22.76	16.71	18.86	34.77	-18.06
				12	6	21.79	15.74	17.89	34.77	-19.03
				25	0	21.72	15.67	17.82	34.77	-19.10
	23755	706.5	16QAM	1	0	22.25	16.20	18.35	34.77	-18.57
				1	24	22.22	16.17	18.32	34.77	-18.60
				12	6	20.89	14.84	16.99	34.77	-19.93
				25	0	20.86	14.81	16.96	34.77	-19.96
	23790	710	16QAM	1	0	22.13	16.08	18.23	34.77	-18.69
				1	24	21.82	15.77	17.92	34.77	-19.00
				12	6	20.81	14.76	16.91	34.77	-20.01
				25	0	20.77	14.72	16.87	34.77	-20.05
	23825	713.5	16QAM	1	0	22.20	16.15	18.30	34.77	-18.62
				1	24	21.87	15.82	17.97	34.77	-18.95
				12	6	20.88	14.83	16.98	34.77	-19.94
				25	0	20.78	14.73	16.88	34.77	-20.04
	23755	706.5	64QAM	1	0	21.81	15.76	17.91	34.77	-19.01
				1	24	21.93	15.88	18.03	34.77	-18.89
				12	6	20.88	14.83	16.98	34.77	-19.94
				25	0	20.83	14.78	16.93	34.77	-19.99
	23790	710	64QAM	1	0	21.84	15.79	17.94	34.77	-18.98
				1	24	21.76	15.71	17.86	34.77	-19.06
				12	6	20.88	14.83	16.98	34.77	-19.94
				25	0	20.83	14.78	16.93	34.77	-19.99
	23825	713.5	64QAM	1	0	21.97	15.92	18.07	34.77	-18.85
				1	24	22.01	15.96	18.11	34.77	-18.81
				12	6	20.75	14.70	16.85	34.77	-20.07
				25	0	20.70	14.65	16.80	34.77	-20.12
	23755	706.5	256QAM	1	0	19.24	13.19	15.34	34.77	-21.58
				1	24	19.29	13.24	15.39	34.77	-21.53
				12	6	18.95	12.90	15.05	34.77	-21.87
				25	0	18.69	12.64	14.79	34.77	-22.13
	23790	710	256QAM	1	0	19.32	13.27	15.42	34.77	-21.50
				1	24	19.28	13.23	15.38	34.77	-21.54
				12	6	18.79	12.74	14.89	34.77	-22.03
				25	0	18.67	12.62	14.77	34.77	-22.15
	23825	713.5	256QAM	1	0	19.45	13.40	15.55	34.77	-21.37
				1	24	19.26	13.21	15.36	34.77	-21.56
				12	6	18.78	12.73	14.88	34.77	-22.04
				25	0	18.75	12.70	14.85	34.77	-22.07

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Antenna gain (dBi)		-3.9								
LTE Band 17_Uplink frequency band : 704 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	23780	709	QPSK	1	0	22.90	16.85	19.00	34.77	-17.92
				1	49	23.02	16.97	19.12	34.77	-17.80
				25	12	22.17	16.12	18.27	34.77	-18.65
				50	0	22.15	16.10	18.25	34.77	-18.67
	23790	710	QPSK	1	0	22.95	16.90	19.05	34.77	-17.87
				1	49	23.01	16.96	19.11	34.77	-17.81
				25	12	22.09	16.04	18.19	34.77	-18.73
				50	0	22.05	16.00	18.15	34.77	-18.77
	23800	711	QPSK	1	0	23.03	16.98	19.13	34.77	-17.79
				1	49	23.04	16.99	19.14	34.77	-17.78
				25	12	22.03	15.98	18.13	34.77	-18.79
				50	0	22.04	15.99	18.14	34.77	-18.78
	23780	709	16QAM	1	0	22.52	16.47	18.62	34.77	-18.30
				1	49	22.59	16.54	18.69	34.77	-18.23
				25	12	21.08	15.03	17.18	34.77	-19.74
				50	0	21.11	15.06	17.21	34.77	-19.71
	23790	710	16QAM	1	0	22.52	16.47	18.62	34.77	-18.30
				1	49	22.59	16.54	18.69	34.77	-18.23
				25	12	20.94	14.89	17.04	34.77	-19.88
				50	0	21.02	14.97	17.12	34.77	-19.80
	23800	711	16QAM	1	0	22.30	16.25	18.40	34.77	-18.52
				1	49	22.36	16.31	18.46	34.77	-18.46
				25	12	21.06	15.01	17.16	34.77	-19.76
				50	0	21.06	15.01	17.16	34.77	-19.76
	23780	709	64QAM	1	0	22.49	16.44	18.59	34.77	-18.33
				1	49	22.32	16.27	18.42	34.77	-18.50
				25	12	21.10	15.05	17.20	34.77	-19.72
				50	0	21.07	15.02	17.17	34.77	-19.75
	23790	710	64QAM	1	0	22.27	16.22	18.37	34.77	-18.55
				1	49	22.15	16.10	18.25	34.77	-18.67
				25	12	21.16	15.11	17.26	34.77	-19.66
				50	0	21.11	15.06	17.21	34.77	-19.71
	23800	711	64QAM	1	0	22.50	16.45	18.60	34.77	-18.32
				1	49	22.48	16.43	18.58	34.77	-18.34
				25	12	21.07	15.02	17.17	34.77	-19.75
				50	0	21.12	15.07	17.22	34.77	-19.70
	23780	709	256QAM	1	0	19.38	13.33	15.48	34.77	-21.44
				1	49	19.37	13.32	15.47	34.77	-21.45
				25	12	18.98	12.93	15.08	34.77	-21.84
				50	0	18.82	12.77	14.92	34.77	-22.00
23790	710	256QAM	1	0	19.39	13.34	15.49	34.77	-21.43	
			1	49	19.39	13.34	15.49	34.77	-21.43	
			25	12	18.83	12.78	14.93	34.77	-21.99	
			50	0	18.85	12.80	14.95	34.77	-21.97	
23800	711	256QAM	1	0	19.47	13.42	15.57	34.77	-21.35	
			1	49	19.33	13.28	15.43	34.77	-21.49	
			25	12	18.86	12.81	14.96	34.77	-21.96	
			50	0	18.81	12.76	14.91	34.77	-22.01	

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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	23.19	22.49	33	-10.51
				1	14	23.05	22.35	33	-10.65
				8	4	22.42	21.72	33	-11.28
				15	0	22.29	21.59	33	-11.41
	26365	1882.5	QPSK	1	0	23.02	22.32	33	-10.68
				1	14	23.09	22.39	33	-10.61
				8	4	22.21	21.51	33	-11.49
				15	0	22.17	21.47	33	-11.53
	26675	1913.5	QPSK	1	0	22.98	22.28	33	-10.72
				1	14	22.99	22.29	33	-10.71
				8	4	22.25	21.55	33	-11.45
				15	0	22.09	21.39	33	-11.61
	26055	1851.5	16QAM	1	0	22.96	22.26	33	-10.74
				1	14	22.20	21.50	33	-11.5
				8	4	21.24	20.54	33	-12.46
				15	0	21.22	20.52	33	-12.48
	26365	1882.5	16QAM	1	0	22.26	21.56	33	-11.44
				1	14	22.53	21.83	33	-11.17
				8	4	20.99	20.29	33	-12.71
				15	0	21.26	20.56	33	-12.44
	26675	1913.5	16QAM	1	0	22.25	21.55	33	-11.45
				1	14	22.08	21.38	33	-11.62
				8	4	21.28	20.58	33	-12.42
				15	0	21.28	20.58	33	-12.42
	26055	1851.5	64QAM	1	0	21.89	21.19	33	-11.81
				1	14	22.35	21.65	33	-11.35
				8	4	21.12	20.42	33	-12.58
				15	0	21.19	20.49	33	-12.51
	26365	1882.5	64QAM	1	0	22.17	21.47	33	-11.53
				1	14	22.04	21.34	33	-11.66
				8	4	21.00	20.30	33	-12.7
				15	0	21.02	20.32	33	-12.68
	26675	1913.5	64QAM	1	0	22.06	21.36	33	-11.64
				1	14	21.93	21.23	33	-11.77
				8	4	21.16	20.46	33	-12.54
				15	0	20.95	20.25	33	-12.75
26055	1851.5	256QAM	1	0	19.20	18.50	33	-14.5	
			1	14	19.03	18.33	33	-14.67	
			8	4	18.16	17.46	33	-15.54	
			15	0	17.95	17.25	33	-15.75	
26365	1882.5	256QAM	1	0	19.11	18.41	33	-14.59	
			1	14	19.02	18.32	33	-14.68	
			8	4	18.26	17.56	33	-15.44	
			15	0	18.05	17.35	33	-15.65	
26675	1913.5	256QAM	1	0	18.93	18.23	33	-14.77	
			1	14	18.91	18.21	33	-14.79	
			8	4	18.08	17.38	33	-15.62	
			15	0	17.88	17.18	33	-15.82	

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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	23.32	22.62	33	-10.38
				1	24	23.05	22.35	33	-10.65
				12	6	22.52	21.82	33	-11.18
				25	0	22.34	21.64	33	-11.36
	26365	1882.5	QPSK	1	0	23.03	22.33	33	-10.67
				1	24	23.12	22.42	33	-10.58
				12	6	22.31	21.61	33	-11.39
				25	0	22.35	21.65	33	-11.35
	26665	1912.5	QPSK	1	0	23.13	22.43	33	-10.57
				1	24	23.09	22.39	33	-10.61
				12	6	22.39	21.69	33	-11.31
				25	0	22.09	21.39	33	-11.61
	26065	1852.5	16QAM	1	0	23.07	22.37	33	-10.63
				1	24	22.29	21.59	33	-11.41
				12	6	21.40	20.70	33	-12.3
				25	0	21.37	20.67	33	-12.33
	26365	1882.5	16QAM	1	0	22.40	21.70	33	-11.3
				1	24	22.55	21.85	33	-11.15
				12	6	21.16	20.46	33	-12.54
				25	0	21.36	20.66	33	-12.34
	26665	1912.5	16QAM	1	0	22.35	21.65	33	-11.35
				1	24	22.18	21.48	33	-11.52
				12	6	21.37	20.67	33	-12.33
				25	0	21.45	20.75	33	-12.25
	26065	1852.5	64QAM	1	0	22.00	21.30	33	-11.7
				1	24	22.46	21.76	33	-11.24
				12	6	21.24	20.54	33	-12.46
				25	0	21.19	20.49	33	-12.51
	26365	1882.5	64QAM	1	0	22.26	21.56	33	-11.44
				1	24	22.16	21.46	33	-11.54
				12	6	21.16	20.46	33	-12.54
				25	0	21.21	20.51	33	-12.49
	26665	1912.5	64QAM	1	0	22.19	21.49	33	-11.51
				1	24	22.12	21.42	33	-11.58
				12	6	21.21	20.51	33	-12.49
				25	0	21.10	20.40	33	-12.6
	26065	1852.5	256QAM	1	0	19.29	18.59	33	-14.41
				1	24	19.09	18.39	33	-14.61
				12	6	18.23	17.53	33	-15.47
				25	0	18.08	17.38	33	-15.62
	26365	1882.5	256QAM	1	0	19.16	18.46	33	-14.54
				1	24	19.04	18.34	33	-14.66
				12	6	18.29	17.59	33	-15.41
				25	0	18.21	17.51	33	-15.49
	26665	1912.5	256QAM	1	0	18.98	18.28	33	-14.72
				1	24	19.06	18.36	33	-14.64
				12	6	18.27	17.57	33	-15.43
				25	0	18.06	17.36	33	-15.64

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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	23.39	22.69	33	-10.31
				1	49	23.12	22.42	33	-10.58
				25	12	22.59	21.89	33	-11.11
				50	0	22.36	21.66	33	-11.34
	26365	1882.5	QPSK	1	0	23.12	22.42	33	-10.58
				1	49	23.29	22.59	33	-10.41
				25	12	22.31	21.61	33	-11.39
				50	0	22.45	21.75	33	-11.25
	26640	1910	QPSK	1	0	23.13	22.43	33	-10.57
				1	49	23.25	22.55	33	-10.45
				25	12	22.47	21.77	33	-11.23
				50	0	22.27	21.57	33	-11.43
	26090	1855	16QAM	1	0	23.07	22.37	33	-10.63
				1	49	22.41	21.71	33	-11.29
				25	12	21.52	20.82	33	-12.18
				50	0	21.56	20.86	33	-12.14
	26365	1882.5	16QAM	1	0	22.51	21.81	33	-11.19
				1	49	22.67	21.97	33	-11.03
				25	12	21.29	20.59	33	-12.41
				50	0	21.42	20.72	33	-12.28
	26640	1910	16QAM	1	0	22.35	21.65	33	-11.35
				1	49	22.24	21.54	33	-11.46
				25	12	21.54	20.84	33	-12.16
				50	0	21.47	20.77	33	-12.23
	26090	1855	64QAM	1	0	22.18	21.48	33	-11.52
				1	49	22.48	21.78	33	-11.22
				25	12	21.32	20.62	33	-12.38
				50	0	21.30	20.60	33	-12.4
	26365	1882.5	64QAM	1	0	22.42	21.72	33	-11.28
				1	49	22.30	21.60	33	-11.4
				25	12	21.29	20.59	33	-12.41
				50	0	21.36	20.66	33	-12.34
	26640	1910	64QAM	1	0	22.29	21.59	33	-11.41
				1	49	22.30	21.60	33	-11.4
				25	12	21.27	20.57	33	-12.43
				50	0	21.25	20.55	33	-12.45
	26090	1855	256QAM	1	0	19.38	18.68	33	-14.32
				1	49	19.19	18.49	33	-14.51
				25	12	18.30	17.60	33	-15.4
				50	0	18.26	17.56	33	-15.44
	26365	1882.5	256QAM	1	0	19.19	18.49	33	-14.51
				1	49	19.16	18.46	33	-14.54
				25	12	18.35	17.65	33	-15.35
				50	0	18.35	17.65	33	-15.35
	26640	1910	256QAM	1	0	19.14	18.44	33	-14.56
				1	49	19.13	18.43	33	-14.57
				25	12	18.30	17.60	33	-15.4
				50	0	18.16	17.46	33	-15.54

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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	23.41	22.71	33	-10.29
				1	74	23.16	22.46	33	-10.54
				36	18	22.62	21.92	33	-11.08
				75	0	22.53	21.83	33	-11.17
	26365	1882.5	QPSK	1	0	23.31	22.61	33	-10.39
				1	74	23.29	22.59	33	-10.41
				36	18	22.37	21.67	33	-11.33
				75	0	22.47	21.77	33	-11.23
	26615	1907.5	QPSK	1	0	23.30	22.60	33	-10.4
				1	74	23.30	22.60	33	-10.4
				36	18	22.52	21.82	33	-11.18
				75	0	22.32	21.62	33	-11.38
	26115	1857.5	16QAM	1	0	23.07	22.37	33	-10.63
				1	74	22.42	21.72	33	-11.28
				36	18	21.54	20.84	33	-12.16
				75	0	21.67	20.97	33	-12.03
	26365	1882.5	16QAM	1	0	22.68	21.98	33	-11.02
				1	74	22.72	22.02	33	-10.98
				36	18	21.48	20.78	33	-12.22
				75	0	21.48	20.78	33	-12.22
	26615	1907.5	16QAM	1	0	22.54	21.84	33	-11.16
				1	74	22.29	21.59	33	-11.41
				36	18	21.56	20.86	33	-12.14
				75	0	21.54	20.84	33	-12.16
	26115	1857.5	64QAM	1	0	22.29	21.59	33	-11.41
				1	74	22.47	21.77	33	-11.23
				36	18	21.49	20.79	33	-12.21
				75	0	21.47	20.77	33	-12.23
	26365	1882.5	64QAM	1	0	22.49	21.79	33	-11.21
				1	74	22.35	21.65	33	-11.35
				36	18	21.34	20.64	33	-12.36
				75	0	21.44	20.74	33	-12.26
	26615	1907.5	64QAM	1	0	22.47	21.77	33	-11.23
				1	74	22.45	21.75	33	-11.25
				36	18	21.44	20.74	33	-12.26
				75	0	21.33	20.63	33	-12.37
	26115	1857.5	256QAM	1	0	19.38	18.68	33	-14.32
				1	74	19.35	18.65	33	-14.35
				36	18	18.37	17.67	33	-15.33
				75	0	18.27	17.57	33	-15.43
	26365	1882.5	256QAM	1	0	19.31	18.61	33	-14.39
				1	74	19.34	18.64	33	-14.36
				36	18	18.36	17.66	33	-15.34
				75	0	18.36	17.66	33	-15.34
	26615	1907.5	256QAM	1	0	19.20	18.50	33	-14.5
				1	74	19.28	18.58	33	-14.42
				36	18	18.38	17.68	33	-15.32
				75	0	18.27	17.57	33	-15.43

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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	23.58	22.88	33	-10.12
				1	99	23.35	22.65	33	-10.35
				50	25	22.64	21.94	33	-11.06
				100	0	22.57	21.87	33	-11.13
	26365	1882.5	QPSK	1	0	23.48	22.78	33	-10.22
				1	99	23.45	22.75	33	-10.25
				50	25	22.55	21.85	33	-11.15
				100	0	22.61	21.91	33	-11.09
	26590	1905	QPSK	1	0	23.38	22.68	33	-10.32
				1	99	23.37	22.67	33	-10.33
				50	25	22.49	21.79	33	-11.21
				100	0	22.49	21.79	33	-11.21
	26140	1860	16QAM	1	0	23.10	22.40	33	-10.6
				1	99	22.55	21.85	33	-11.15
				50	25	21.64	20.94	33	-12.06
				100	0	21.72	21.02	33	-11.98
	26365	1882.5	16QAM	1	0	22.78	22.08	33	-10.92
				1	99	22.83	22.13	33	-10.87
				50	25	21.65	20.95	33	-12.05
				100	0	21.54	20.84	33	-12.16
	26590	1905	16QAM	1	0	22.54	21.84	33	-11.16
				1	99	22.47	21.77	33	-11.23
				50	25	21.56	20.86	33	-12.14
				100	0	21.55	20.85	33	-12.15
	26140	1860	64QAM	1	0	22.47	21.77	33	-11.23
				1	99	22.48	21.78	33	-11.22
				50	25	21.64	20.94	33	-12.06
				100	0	21.59	20.89	33	-12.11
	26365	1882.5	64QAM	1	0	22.49	21.79	33	-11.21
				1	99	22.47	21.77	33	-11.23
				50	25	21.48	20.78	33	-12.22
				100	0	21.50	20.80	33	-12.2
	26590	1905	64QAM	1	0	22.47	21.77	33	-11.23
				1	99	22.43	21.73	33	-11.27
				50	25	21.53	20.83	33	-12.17
				100	0	21.51	20.81	33	-12.19
	26140	1860	256QAM	1	0	19.43	18.73	33	-14.27
				1	99	19.49	18.79	33	-14.21
				50	25	18.41	17.71	33	-15.29
				100	0	18.41	17.71	33	-15.29
26365	1882.5	256QAM	1	0	19.34	18.64	33	-14.36	
			1	99	19.45	18.75	33	-14.25	
			50	25	18.37	17.67	33	-15.33	
			100	0	18.44	17.74	33	-15.26	
26590	1905	256QAM	1	0	19.36	18.66	33	-14.34	
			1	99	19.47	18.77	33	-14.23	
			50	25	18.42	17.72	33	-15.28	
			100	0	18.36	17.66	33	-15.34	

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Antenna gain (dBi)		-1.1								
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	23.11	19.86	22.01	38.45	-18.59
				1	5	23.06	19.81	21.96	38.45	-18.64
				3	2	23.16	19.91	22.06	38.45	-18.54
				6	0	22.20	18.95	21.10	38.45	-19.50
	26915	836.5	QPSK	1	0	23.07	19.82	21.97	38.45	-18.63
				1	5	23.08	19.83	21.98	38.45	-18.62
				3	2	23.10	19.85	22.00	38.45	-18.60
				6	0	22.15	18.90	21.05	38.45	-19.55
	27033	848.3	QPSK	1	0	22.97	19.72	21.87	38.45	-18.73
				1	5	22.81	19.56	21.71	38.45	-18.89
				3	2	22.68	19.43	21.58	38.45	-19.02
				6	0	22.24	18.99	21.14	38.45	-19.46
	26797	824.7	16QAM	1	0	22.04	18.79	20.94	38.45	-19.66
				1	5	21.92	18.67	20.82	38.45	-19.78
				3	2	22.16	18.91	21.06	38.45	-19.54
				6	0	21.19	17.94	20.09	38.45	-20.51
	26915	836.5	16QAM	1	0	22.12	18.87	21.02	38.45	-19.58
				1	5	22.02	18.77	20.92	38.45	-19.68
				3	2	22.20	18.95	21.10	38.45	-19.50
				6	0	21.16	17.91	20.06	38.45	-20.54
	27033	848.3	16QAM	1	0	21.97	18.72	20.87	38.45	-19.73
				1	5	21.73	18.48	20.63	38.45	-19.97
				3	2	21.56	18.31	20.46	38.45	-20.14
				6	0	21.55	18.30	20.45	38.45	-20.15
	26797	824.7	64QAM	1	0	21.05	17.80	19.95	38.45	-20.65
				1	5	20.95	17.70	19.85	38.45	-20.75
				3	2	21.01	17.76	19.91	38.45	-20.69
				6	0	19.88	16.63	18.78	38.45	-21.82
	26915	836.5	64QAM	1	0	21.27	18.02	20.17	38.45	-20.43
				1	5	21.07	17.82	19.97	38.45	-20.63
				3	2	21.21	17.96	20.11	38.45	-20.49
				6	0	20.11	16.86	19.01	38.45	-21.59
	27033	848.3	64QAM	1	0	21.80	18.55	20.70	38.45	-19.90
				1	5	21.68	18.43	20.58	38.45	-20.02
				3	2	21.59	18.34	20.49	38.45	-20.11
				6	0	20.63	17.38	19.53	38.45	-21.07
	26797	824.7	256QAM	1	0	18.31	15.06	17.21	38.45	-23.39
				1	5	18.35	15.10	17.25	38.45	-23.35
				3	2	18.41	15.16	17.31	38.45	-23.29
				6	0	18.32	15.07	17.22	38.45	-23.38
	26915	836.5	256QAM	1	0	18.24	14.99	17.14	38.45	-23.46
				1	5	18.37	15.12	17.27	38.45	-23.33
				3	2	18.27	15.02	17.17	38.45	-23.43
				6	0	18.24	14.99	17.14	38.45	-23.46
	27033	848.3	256QAM	1	0	18.88	15.63	17.78	38.45	-22.82
				1	5	18.94	15.69	17.84	38.45	-22.76
				3	2	18.98	15.73	17.88	38.45	-22.72
				6	0	18.04	14.79	16.94	38.45	-23.66

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Antenna gain (dBi)		-1.1								
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	23.19	19.94	22.09	38.45	-18.51
				1	14	23.25	20.00	22.15	38.45	-18.45
				8	4	22.36	19.11	21.26	38.45	-19.34
				15	0	22.30	19.05	21.20	38.45	-19.40
	26915	836.5	QPSK	1	0	23.14	19.89	22.04	38.45	-18.56
				1	14	23.17	19.92	22.07	38.45	-18.53
				8	4	22.25	19.00	21.15	38.45	-19.45
				15	0	22.25	19.00	21.15	38.45	-19.45
	27025	847.5	QPSK	1	0	23.13	19.88	22.03	38.45	-18.57
				1	14	22.85	19.60	21.75	38.45	-18.85
				8	4	22.33	19.08	21.23	38.45	-19.37
				15	0	22.33	19.08	21.23	38.45	-19.37
	26805	825.5	16QAM	1	0	22.00	18.75	20.90	38.45	-19.70
				1	14	22.02	18.77	20.92	38.45	-19.68
				8	4	21.32	18.07	20.22	38.45	-20.38
				15	0	21.28	18.03	20.18	38.45	-20.42
	26915	836.5	16QAM	1	0	22.08	18.83	20.98	38.45	-19.62
				1	14	22.08	18.83	20.98	38.45	-19.62
				8	4	21.39	18.14	20.29	38.45	-20.31
				15	0	21.28	18.03	20.18	38.45	-20.42
	27025	847.5	16QAM	1	0	22.08	18.83	20.98	38.45	-19.62
				1	14	21.55	18.30	20.45	38.45	-20.15
				8	4	20.71	17.46	19.61	38.45	-20.99
				15	0	20.59	17.34	19.49	38.45	-21.11
	26805	825.5	64QAM	1	0	21.07	17.82	19.97	38.45	-20.63
				1	14	20.95	17.70	19.85	38.45	-20.75
				8	4	19.89	16.64	18.79	38.45	-21.81
				15	0	19.92	16.67	18.82	38.45	-21.78
	26915	836.5	64QAM	1	0	21.27	18.02	20.17	38.45	-20.43
				1	14	21.33	18.08	20.23	38.45	-20.37
				8	4	20.37	17.12	19.27	38.45	-21.33
				15	0	20.33	17.08	19.23	38.45	-21.37
	27025	847.5	64QAM	1	0	21.92	18.67	20.82	38.45	-19.78
				1	14	21.58	18.33	20.48	38.45	-20.12
				8	4	20.67	17.42	19.57	38.45	-21.03
				15	0	20.73	17.48	19.63	38.45	-20.97
26805	825.5	256QAM	1	0	18.49	15.24	17.39	38.45	-23.21	
			1	14	18.40	15.15	17.30	38.45	-23.30	
			8	4	18.42	15.17	17.32	38.45	-23.28	
			15	0	18.41	15.16	17.31	38.45	-23.29	
26915	836.5	256QAM	1	0	18.40	15.15	17.30	38.45	-23.30	
			1	14	18.35	15.10	17.25	38.45	-23.35	
			8	4	18.43	15.18	17.33	38.45	-23.27	
			15	0	18.39	15.14	17.29	38.45	-23.31	
27025	847.5	256QAM	1	0	19.07	15.82	17.97	38.45	-22.63	
			1	14	18.94	15.69	17.84	38.45	-22.76	
			8	4	18.15	14.90	17.05	38.45	-23.55	
			15	0	18.17	14.92	17.07	38.45	-23.53	

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Antenna gain (dBi)										
		-1.1								
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	23.22	19.97	22.12	38.45	-18.48
				1	24	23.25	20.00	22.15	38.45	-18.45
				12	6	22.35	19.10	21.25	38.45	-19.35
				25	0	22.34	19.09	21.24	38.45	-19.36
	26915	836.5	QPSK	1	0	23.18	19.93	22.08	38.45	-18.52
				1	24	23.20	19.95	22.10	38.45	-18.50
				12	6	22.27	19.02	21.17	38.45	-19.43
				25	0	22.27	19.02	21.17	38.45	-19.43
	27015	846.5	QPSK	1	0	23.24	19.99	22.14	38.45	-18.46
				1	24	23.00	19.75	21.90	38.45	-18.70
				12	6	22.43	19.18	21.33	38.45	-19.27
				25	0	22.34	19.09	21.24	38.45	-19.36
	26815	826.5	16QAM	1	0	22.38	19.13	21.28	38.45	-19.32
				1	24	22.48	19.23	21.38	38.45	-19.22
				12	6	21.28	18.03	20.18	38.45	-20.42
				25	0	21.34	18.09	20.24	38.45	-20.36
	26915	836.5	16QAM	1	0	22.50	19.25	21.40	38.45	-19.20
				1	24	22.18	18.93	21.08	38.45	-19.52
				12	6	21.21	17.96	20.11	38.45	-20.49
				25	0	21.23	17.98	20.13	38.45	-20.47
	27015	846.5	16QAM	1	0	22.10	18.85	21.00	38.45	-19.60
				1	24	21.50	18.25	20.40	38.45	-20.20
				12	6	20.87	17.62	19.77	38.45	-20.83
				25	0	20.73	17.48	19.63	38.45	-20.97
	26815	826.5	64QAM	1	0	21.13	17.88	20.03	38.45	-20.57
				1	24	20.66	17.41	19.56	38.45	-21.04
				12	6	19.89	16.64	18.79	38.45	-21.81
				25	0	19.73	16.48	18.63	38.45	-21.97
	26915	836.5	64QAM	1	0	21.00	17.75	19.90	38.45	-20.70
				1	24	21.14	17.89	20.04	38.45	-20.56
				12	6	20.26	17.01	19.16	38.45	-21.44
				25	0	20.30	17.05	19.20	38.45	-21.40
	27015	846.5	64QAM	1	0	22.04	18.79	20.94	38.45	-19.66
				1	24	21.57	18.32	20.47	38.45	-20.13
				12	6	20.76	17.51	19.66	38.45	-20.94
				25	0	20.86	17.61	19.76	38.45	-20.84
	26815	826.5	256QAM	1	0	18.42	15.17	17.32	38.45	-23.28
				1	24	18.31	15.06	17.21	38.45	-23.39
				12	6	18.38	15.13	17.28	38.45	-23.32
				25	0	18.40	15.15	17.30	38.45	-23.30
	26915	836.5	256QAM	1	0	18.35	15.10	17.25	38.45	-23.35
				1	24	18.35	15.10	17.25	38.45	-23.35
				12	6	18.28	15.03	17.18	38.45	-23.42
				25	0	18.33	15.08	17.23	38.45	-23.37
	27015	846.5	256QAM	1	0	19.22	15.97	18.12	38.45	-22.48
				1	24	19.05	15.80	17.95	38.45	-22.65
				12	6	18.20	14.95	17.10	38.45	-23.50
				25	0	18.27	15.02	17.17	38.45	-23.43

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Antenna gain (dBi)		-1.1								
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	23.17	19.92	22.07	38.45	-18.53
				1	49	22.96	19.71	21.86	38.45	-18.74
				25	12	22.36	19.11	21.26	38.45	-19.34
				50	0	22.30	19.05	21.20	38.45	-19.40
	26915	836.5	QPSK	1	0	23.11	19.86	22.01	38.45	-18.59
				1	49	23.30	20.05	22.20	38.45	-18.40
				25	12	22.14	18.89	21.04	38.45	-19.56
				50	0	22.22	18.97	21.12	38.45	-19.48
	26990	844	QPSK	1	0	23.43	20.18	22.33	38.45	-18.27
				1	49	23.15	19.90	22.05	38.45	-18.55
				25	12	22.49	19.24	21.39	38.45	-19.21
				50	0	22.44	19.19	21.34	38.45	-19.26
	26840	829	16QAM	1	0	22.52	19.27	21.42	38.45	-19.18
				1	49	22.16	18.91	21.06	38.45	-19.54
				25	12	21.34	18.09	20.24	38.45	-20.36
				50	0	21.22	17.97	20.12	38.45	-20.48
	26915	836.5	16QAM	1	0	22.62	19.37	21.52	38.45	-19.08
				1	49	22.32	19.07	21.22	38.45	-19.38
				25	12	21.14	17.89	20.04	38.45	-20.56
				50	0	21.25	18.00	20.15	38.45	-20.45
	26990	844	16QAM	1	0	22.21	18.96	21.11	38.45	-19.49
				1	49	22.21	18.96	21.11	38.45	-19.49
				25	12	20.93	17.68	19.83	38.45	-20.77
				50	0	20.88	17.63	19.78	38.45	-20.82
	26840	829	64QAM	1	0	21.40	18.15	20.30	38.45	-20.30
				1	49	21.29	18.04	20.19	38.45	-20.41
				25	12	20.01	16.76	18.91	38.45	-21.69
				50	0	20.07	16.82	18.97	38.45	-21.63
	26915	836.5	64QAM	1	0	20.90	17.65	19.80	38.45	-20.80
				1	49	20.64	17.39	19.54	38.45	-21.06
				25	12	20.19	16.94	19.09	38.45	-21.51
				50	0	20.25	17.00	19.15	38.45	-21.45
	26990	844	64QAM	1	0	22.16	18.91	21.06	38.45	-19.54
				1	49	21.54	18.29	20.44	38.45	-20.16
				25	12	20.83	17.58	19.73	38.45	-20.87
				50	0	21.02	17.77	19.92	38.45	-20.68
	26840	829	256QAM	1	0	18.23	14.98	17.13	38.45	-23.47
				1	49	18.41	15.16	17.31	38.45	-23.29
				25	12	18.34	15.09	17.24	38.45	-23.36
				50	0	18.32	15.07	17.22	38.45	-23.38
	26915	836.5	256QAM	1	0	18.28	15.03	17.18	38.45	-23.42
				1	49	18.43	15.18	17.33	38.45	-23.27
				25	12	18.33	15.08	17.23	38.45	-23.37
				50	0	18.39	15.14	17.29	38.45	-23.31
	26990	844	256QAM	1	0	19.37	16.12	18.27	38.45	-22.33
				1	49	19.13	15.88	18.03	38.45	-22.57
				25	12	18.31	15.06	17.21	38.45	-23.39
				50	0	18.37	15.12	17.27	38.45	-23.33

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Antenna gain (dBi)		-1.1								
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	23.53	20.28	22.43	38.45	-18.17
				1	74	23.43	20.18	22.33	38.45	-18.27
				36	18	22.57	19.32	21.47	38.45	-19.13
				75	0	22.59	19.34	21.49	38.45	-19.11
	26915	836.5	QPSK	1	0	23.09	19.84	21.99	38.45	-18.61
				1	74	22.59	19.34	21.49	38.45	-19.11
				36	18	22.20	18.95	21.10	38.45	-19.50
				75	0	22.25	19.00	21.15	38.45	-19.45
	26965	841.5	QPSK	1	0	23.46	20.21	22.36	38.45	-18.24
				1	74	23.17	19.92	22.07	38.45	-18.53
				36	18	22.58	19.33	21.48	38.45	-19.12
				75	0	22.53	19.28	21.43	38.45	-19.17
	26865	831.5	16QAM	1	0	22.43	19.18	21.33	38.45	-19.27
				1	74	22.19	18.94	21.09	38.45	-19.51
				36	18	21.07	17.82	19.97	38.45	-20.63
				75	0	21.11	17.86	20.01	38.45	-20.59
	26915	836.5	16QAM	1	0	22.07	18.82	20.97	38.45	-19.63
				1	74	22.02	18.77	20.92	38.45	-19.68
				36	18	21.21	17.96	20.11	38.45	-20.49
				75	0	21.19	17.94	20.09	38.45	-20.51
	26965	841.5	16QAM	1	0	22.33	19.08	21.23	38.45	-19.37
				1	74	21.56	18.31	20.46	38.45	-20.14
				36	18	21.01	17.76	19.91	38.45	-20.69
				75	0	21.05	17.80	19.95	38.45	-20.65
	26865	831.5	64QAM	1	0	22.30	19.05	21.20	38.45	-19.40
				1	74	22.10	18.85	21.00	38.45	-19.60
				36	18	21.09	17.84	19.99	38.45	-20.61
				75	0	21.12	17.87	20.02	38.45	-20.58
	26915	836.5	64QAM	1	0	21.21	17.96	20.11	38.45	-20.49
				1	74	20.57	17.32	19.47	38.45	-21.13
				36	18	20.22	16.97	19.12	38.45	-21.48
				75	0	20.26	17.01	19.16	38.45	-21.44
	26965	841.5	64QAM	1	0	22.16	18.91	21.06	38.45	-19.54
				1	74	21.61	18.36	20.51	38.45	-20.09
				36	18	21.01	17.76	19.91	38.45	-20.69
				75	0	21.04	17.79	19.94	38.45	-20.66
	26865	831.5	256QAM	1	0	19.42	16.17	18.32	38.45	-22.28
				1	74	19.39	16.14	18.29	38.45	-22.31
				36	18	18.29	15.04	17.19	38.45	-23.41
				75	0	18.31	15.06	17.21	38.45	-23.39
	26915	836.5	256QAM	1	0	18.27	15.02	17.17	38.45	-23.43
				1	74	18.45	15.20	17.35	38.45	-23.25
				36	18	18.33	15.08	17.23	38.45	-23.37
				75	0	18.36	15.11	17.26	38.45	-23.34
	26965	841.5	256QAM	1	0	19.39	16.14	18.29	38.45	-22.31
				1	74	19.32	16.07	18.22	38.45	-22.38
				36	18	18.36	15.11	17.26	38.45	-23.34
				75	0	18.37	15.12	17.27	38.45	-23.33

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Antenna gain (dBi)		-1.1								
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	23.06	19.81	21.96	50	-30.19
				1	5	23.00	19.75	21.90	50	-30.25
				3	2	22.94	19.69	21.84	50	-30.31
				6	0	22.26	19.01	21.16	50	-30.99
	26740	819	QPSK	1	0	23.19	19.94	22.09	50	-30.06
				1	5	23.23	19.98	22.13	50	-30.02
				3	2	23.23	19.98	22.13	50	-30.02
				6	0	22.29	19.04	21.19	50	-30.96
	26783	823.3	QPSK	1	0	23.14	19.89	22.04	50	-30.11
				1	5	23.11	19.86	22.01	50	-30.14
				3	2	23.28	20.03	22.18	50	-29.97
				6	0	22.21	18.96	21.11	50	-31.04
	26697	814.7	16QAM	1	0	22.00	18.75	20.90	50	-31.25
				1	5	21.80	18.55	20.70	50	-31.45
				3	2	21.71	18.46	20.61	50	-31.54
				6	0	21.45	18.20	20.35	50	-31.80
	26740	819	16QAM	1	0	22.17	18.92	21.07	50	-31.08
				1	5	22.02	18.77	20.92	50	-31.23
				3	2	22.28	19.03	21.18	50	-30.97
				6	0	21.38	18.13	20.28	50	-31.87
	26783	823.3	16QAM	1	0	21.98	18.73	20.88	50	-31.27
				1	5	21.94	18.69	20.84	50	-31.31
				3	2	22.23	18.98	21.13	50	-31.02
				6	0	21.22	17.97	20.12	50	-32.03
	26697	814.7	64QAM	1	0	22.08	18.83	20.98	50	-31.17
				1	5	21.68	18.43	20.58	50	-31.57
				3	2	21.70	18.45	20.60	50	-31.55
				6	0	21.64	18.39	20.54	50	-31.61
	26740	819	64QAM	1	0	21.28	18.03	20.18	50	-31.97
				1	5	21.15	17.90	20.05	50	-32.10
				3	2	21.34	18.09	20.24	50	-31.91
				6	0	20.10	16.85	19.00	50	-33.15
	26783	823.3	64QAM	1	0	21.30	18.05	20.20	50	-31.95
				1	5	21.00	17.75	19.90	50	-32.25
				3	2	21.08	17.83	19.98	50	-32.17
				6	0	20.19	16.94	19.09	50	-33.06
	26697	814.7	256QAM	1	0	18.93	15.68	17.83	50	-34.32
				1	5	18.99	15.74	17.89	50	-34.26
				3	2	19.07	15.82	17.97	50	-34.18
				6	0	18.10	14.85	17.00	50	-35.15
	26740	819	256QAM	1	0	18.49	15.24	17.39	50	-34.76
				1	5	18.36	15.11	17.26	50	-34.89
				3	2	18.51	15.26	17.41	50	-34.74
				6	0	18.27	15.02	17.17	50	-34.98
	26783	823.3	256QAM	1	0	18.33	15.08	17.23	50	-34.92
				1	5	18.34	15.09	17.24	50	-34.91
				3	2	18.47	15.22	17.37	50	-34.78
				6	0	18.23	14.98	17.13	50	-35.02

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Antenna gain (dBi)		-1.1								
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	23.21	19.96	22.11	50	-30.04
				1	14	23.11	19.86	22.01	50	-30.14
				8	4	22.59	19.34	21.49	50	-30.66
				15	0	22.37	19.12	21.27	50	-30.88
	26740	819	QPSK	1	0	23.34	20.09	22.24	50	-29.91
				1	14	23.28	20.03	22.18	50	-29.97
				8	4	22.33	19.08	21.23	50	-30.92
				15	0	22.37	19.12	21.27	50	-30.88
	26775	822.5	QPSK	1	0	23.23	19.98	22.13	50	-30.02
				1	14	23.25	20.00	22.15	50	-30.00
				8	4	22.35	19.10	21.25	50	-30.90
				15	0	22.35	19.10	21.25	50	-30.90
	26705	815.5	16QAM	1	0	22.15	18.90	21.05	50	-31.10
				1	14	21.82	18.57	20.72	50	-31.43
				8	4	20.86	17.61	19.76	50	-32.39
				15	0	20.98	17.73	19.88	50	-32.27
	26740	819	16QAM	1	0	22.65	19.40	21.55	50	-30.60
				1	14	22.14	18.89	21.04	50	-31.11
				8	4	21.34	18.09	20.24	50	-31.91
				15	0	21.39	18.14	20.29	50	-31.86
	26775	822.5	16QAM	1	0	22.12	18.87	21.02	50	-31.13
				1	14	22.48	19.23	21.38	50	-30.77
				8	4	21.43	18.18	20.33	50	-31.82
				15	0	21.39	18.14	20.29	50	-31.86
	26705	815.5	64QAM	1	0	22.25	19.00	21.15	50	-31.00
				1	14	21.76	18.51	20.66	50	-31.49
				8	4	20.92	17.67	19.82	50	-32.33
				15	0	20.92	17.67	19.82	50	-32.33
	26740	819	64QAM	1	0	21.32	18.07	20.22	50	-31.93
				1	14	21.39	18.14	20.29	50	-31.86
				8	4	20.27	17.02	19.17	50	-32.98
				15	0	20.32	17.07	19.22	50	-32.93
	26775	822.5	64QAM	1	0	21.30	18.05	20.20	50	-31.95
				1	14	21.26	18.01	20.16	50	-31.99
				8	4	20.41	17.16	19.31	50	-32.84
				15	0	20.46	17.21	19.36	50	-32.79
26705	815.5	256QAM	1	0	19.12	15.87	18.02	50	-34.13	
			1	14	19.13	15.88	18.03	50	-34.12	
			8	4	18.11	14.86	17.01	50	-35.14	
			15	0	18.11	14.86	17.01	50	-35.14	
26740	819	256QAM	1	0	18.40	15.15	17.30	50	-34.85	
			1	14	18.40	15.15	17.30	50	-34.85	
			8	4	18.39	15.14	17.29	50	-34.86	
			15	0	18.42	15.17	17.32	50	-34.83	
26775	822.5	256QAM	1	0	18.44	15.19	17.34	50	-34.81	
			1	14	18.50	15.25	17.40	50	-34.75	
			8	4	18.43	15.18	17.33	50	-34.82	
			15	0	18.34	15.09	17.24	50	-34.91	

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Antenna gain (dBi)		-1.1								
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	23.39	20.14	22.29	50	-29.86
				1	24	23.25	20.00	22.15	50	-30.00
				12	6	22.64	19.39	21.54	50	-30.61
				25	0	22.56	19.31	21.46	50	-30.69
	26740	819	QPSK	1	0	23.39	20.14	22.29	50	-29.86
				1	24	23.29	20.04	22.19	50	-29.96
				12	6	22.37	19.12	21.27	50	-30.88
				25	0	22.39	19.14	21.29	50	-30.86
	26765	821.5	QPSK	1	0	23.25	20.00	22.15	50	-30.00
				1	24	23.20	19.95	22.10	50	-30.05
				12	6	22.33	19.08	21.23	50	-30.92
				25	0	22.40	19.15	21.30	50	-30.85
	26715	816.5	16QAM	1	0	22.28	19.03	21.18	50	-30.97
				1	24	22.01	18.76	20.91	50	-31.24
				12	6	20.98	17.73	19.88	50	-32.27
				25	0	21.04	17.79	19.94	50	-32.21
	26740	819	16QAM	1	0	22.59	19.34	21.49	50	-30.66
				1	24	22.36	19.11	21.26	50	-30.89
				12	6	21.42	18.17	20.32	50	-31.83
				25	0	21.34	18.09	20.24	50	-31.91
	26765	821.5	16QAM	1	0	22.39	19.14	21.29	50	-30.86
				1	24	22.56	19.31	21.46	50	-30.69
				12	6	21.33	18.08	20.23	50	-31.92
				25	0	21.36	18.11	20.26	50	-31.89
	26715	816.5	64QAM	1	0	22.30	19.05	21.20	50	-30.95
				1	24	21.92	18.67	20.82	50	-31.33
				12	6	21.09	17.84	19.99	50	-32.16
				25	0	21.01	17.76	19.91	50	-32.24
	26740	819	64QAM	1	0	21.00	17.75	19.90	50	-32.25
				1	24	21.43	18.18	20.33	50	-31.82
				12	6	20.22	16.97	19.12	50	-33.03
				25	0	20.14	16.89	19.04	50	-33.11
	26765	821.5	64QAM	1	0	21.35	18.10	20.25	50	-31.90
				1	24	21.15	17.90	20.05	50	-32.10
				12	6	20.19	16.94	19.09	50	-33.06
				25	0	20.27	17.02	19.17	50	-32.98
	26715	816.5	256QAM	1	0	19.23	15.98	18.13	50	-34.02
				1	24	19.19	15.94	18.09	50	-34.06
				12	6	18.25	15.00	17.15	50	-35.00
				25	0	18.15	14.90	17.05	50	-35.10
	26740	819	256QAM	1	0	18.56	15.31	17.46	50	-34.69
				1	24	18.43	15.18	17.33	50	-34.82
				12	6	18.39	15.14	17.29	50	-34.86
				25	0	18.36	15.11	17.26	50	-34.89
	26765	821.5	256QAM	1	0	18.40	15.15	17.30	50	-34.85
				1	24	18.34	15.09	17.24	50	-34.91
				12	6	18.40	15.15	17.30	50	-34.85
				25	0	18.39	15.14	17.29	50	-34.86

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Antenna gain (dBi)		-1.1								
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	23.38	20.13	22.28	50	-29.87
				1	49	23.30	20.05	22.20	50	-29.95
				25	12	22.38	19.13	21.28	50	-30.87
				50	0	22.44	19.19	21.34	50	-30.81
	26740	819	16QAM	1	0	22.63	19.38	21.53	50	-30.62
				1	49	22.13	18.88	21.03	50	-31.12
				25	12	21.37	18.12	20.27	50	-31.88
				50	0	21.35	18.10	20.25	50	-31.90
	26740	819	64QAM	1	0	20.87	17.62	19.77	50	-32.38
				1	49	20.90	17.65	19.80	50	-32.35
				25	12	20.22	16.97	19.12	50	-33.03
				50	0	20.03	16.78	18.93	50	-33.22
	26740	819	256QAM	1	0	18.45	15.20	17.35	50	-34.80
				1	49	18.54	15.29	17.44	50	-34.71
				25	12	18.41	15.16	17.31	50	-34.84
				50	0	18.45	15.20	17.35	50	-34.80

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Antenna gain (dBi) -2.7

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	23.29	20.59	24	-3.41
				1	24	23.47	20.77	24	-3.23
				12	6	22.47	19.77	24	-4.23
				25	0	22.48	19.78	24	-4.22
	27710	2310	QPSK	1	0	23.37	20.67	24	-3.33
				1	24	23.42	20.72	24	-3.28
				12	6	22.53	19.83	24	-4.17
				25	0	22.51	19.81	24	-4.19
	27735	2312.5	QPSK	1	0	23.24	20.54	24	-3.46
				1	24	23.36	20.66	24	-3.34
				12	6	22.49	19.79	24	-4.21
				25	0	22.54	19.84	24	-4.16
	27685	2307.5	16QAM	1	0	22.49	19.79	24	-4.21
				1	24	22.47	19.77	24	-4.23
				12	6	21.46	18.76	24	-5.24
				25	0	21.49	18.79	24	-5.21
	27710	2310	16QAM	1	0	22.46	19.76	24	-4.24
				1	24	22.48	19.78	24	-4.22
				12	6	21.51	18.81	24	-5.19
				25	0	21.54	18.84	24	-5.16
	27735	2312.5	16QAM	1	0	22.50	19.80	24	-4.2
				1	24	22.49	19.79	24	-4.21
				12	6	21.56	18.86	24	-5.14
				25	0	21.55	18.85	24	-5.15
	27685	2307.5	64QAM	1	0	21.49	18.79	24	-5.21
				1	24	21.44	18.74	24	-5.26
				12	6	21.49	18.79	24	-5.21
				25	0	21.42	18.72	24	-5.28
	27710	2310	64QAM	1	0	21.44	18.74	24	-5.26
				1	24	21.50	18.80	24	-5.2
				12	6	20.57	17.87	24	-6.13
				25	0	20.55	17.85	24	-6.15
	27735	2312.5	64QAM	1	0	21.50	18.80	24	-5.2
				1	24	21.49	18.79	24	-5.21
				12	6	20.56	17.86	24	-6.14
				25	0	20.49	17.79	24	-6.21
	27685	2307.5	256QAM	1	0	18.39	15.69	24	-8.31
				1	24	18.29	15.59	24	-8.41
				12	6	17.35	14.65	24	-9.35
				25	0	17.21	14.51	24	-9.49
	27710	2310	256QAM	1	0	18.39	15.69	24	-8.31
				1	24	18.23	15.53	24	-8.47
				12	6	17.31	14.61	24	-9.39
				25	0	18.22	15.52	24	-8.48
	27735	2312.5	256QAM	1	0	18.27	15.57	24	-8.43
				1	24	18.37	15.67	24	-8.33
				12	6	17.30	14.60	24	-9.4
				25	0	17.26	14.56	24	-9.44

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Antenna gain (dBi)		-2.7							
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	23.31	20.61	24	-3.39
				1	49	23.35	20.65	24	-3.35
				25	12	22.49	19.79	24	-4.21
				50	0	22.50	19.80	24	-4.2
	27710	2310	16QAM	1	0	22.49	19.79	24	-4.21
				1	49	22.44	19.74	24	-4.26
				25	12	21.62	18.92	24	-5.08
	27710	2310	64QAM	50	0	21.39	18.69	24	-5.31
				1	0	21.49	18.79	24	-5.21
				1	49	21.47	18.77	24	-5.23
				25	12	20.51	17.81	24	-6.19
	27710	2310	256QAM	50	0	20.55	17.85	24	-6.15
				1	0	18.34	15.64	24	-8.36
				1	49	18.25	15.55	24	-8.45
				25	12	17.55	14.85	24	-9.15
					50	0	17.45	14.75	24

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Antenna gain (dBi) -2.3

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	23.38	21.08	33	-11.92
				1	24	23.26	20.96	33	-12.04
				12	6	22.25	19.95	33	-13.05
				25	0	22.30	20.00	33	-13
	38000	2595	QPSK	1	0	23.26	20.96	33	-12.04
				1	24	23.32	21.02	33	-11.98
				12	6	22.34	20.04	33	-12.96
				25	0	22.45	20.15	33	-12.85
	38225	2617.5	QPSK	1	0	23.69	21.39	33	-11.61
				1	24	23.18	20.88	33	-12.12
				12	6	22.13	19.83	33	-13.17
				25	0	22.27	19.97	33	-13.03
	37775	2572.5	16QAM	1	0	22.45	20.15	33	-12.85
				1	24	22.67	20.37	33	-12.63
				12	6	21.78	19.48	33	-13.52
				25	0	21.60	19.30	33	-13.7
	38000	2595	16QAM	1	0	22.55	20.25	33	-12.75
				1	24	22.59	20.29	33	-12.71
				12	6	21.51	19.21	33	-13.79
				25	0	21.68	19.38	33	-13.62
	38225	2617.5	16QAM	1	0	22.41	20.11	33	-12.89
				1	24	22.54	20.24	33	-12.76
				12	6	21.55	19.25	33	-13.75
				25	0	21.65	19.35	33	-13.65
	37775	2572.5	64QAM	1	0	22.50	20.20	33	-12.8
				1	24	22.46	20.16	33	-12.84
				12	6	21.56	19.26	33	-13.74
				25	0	21.83	19.53	33	-13.47
	38000	2595	64QAM	1	0	22.49	20.19	33	-12.81
				1	24	22.45	20.15	33	-12.85
				12	6	21.66	19.36	33	-13.64
				25	0	21.71	19.41	33	-13.59
	38225	2617.5	64QAM	1	0	22.48	20.18	33	-12.82
				1	24	22.29	19.99	33	-13.01
				12	6	21.81	19.51	33	-13.49
				25	0	21.48	19.18	33	-13.82
	37775	2572.5	256QAM	1	0	19.31	17.01	33	-15.99
				1	24	19.20	16.90	33	-16.1
				12	6	17.95	15.65	33	-17.35
				25	0	18.25	15.95	33	-17.05
	38000	2595	256QAM	1	0	19.26	16.96	33	-16.04
				1	24	19.09	16.79	33	-16.21
				12	6	18.13	15.83	33	-17.17
				25	0	18.31	16.01	33	-16.99
	38225	2617.5	256QAM	1	0	19.28	16.98	33	-16.02
				1	24	19.14	16.84	33	-16.16
				12	6	18.13	15.83	33	-17.17
				25	0	18.38	16.08	33	-16.92

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Antenna gain (dBi)		-2.3							
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	21.26	33	-11.74
				1	49	23.41	21.11	33	-11.89
				25	12	22.41	20.11	33	-12.89
				50	0	22.34	20.04	33	-12.96
	38000	2595	QPSK	1	0	23.43	21.13	33	-11.87
				1	49	23.40	21.10	33	-11.9
				25	12	22.47	20.17	33	-12.83
				50	0	22.46	20.16	33	-12.84
	38200	2615	QPSK	1	0	23.71	21.41	33	-11.59
				1	49	23.25	20.95	33	-12.05
				25	12	22.28	19.98	33	-13.02
				50	0	22.44	20.14	33	-12.86
	37800	2575	16QAM	1	0	22.46	20.16	33	-12.84
				1	49	22.67	20.37	33	-12.63
				25	12	21.79	19.49	33	-13.51
	38000	2595	16QAM	50	0	21.67	19.37	33	-13.63
				1	0	22.66	20.36	33	-12.64
				1	49	22.59	20.29	33	-12.71
	38200	2615	16QAM	25	12	21.63	19.33	33	-13.67
				50	0	21.80	19.50	33	-13.5
				1	0	22.55	20.25	33	-12.75
	37800	2575	64QAM	1	49	22.71	20.41	33	-12.59
				25	12	21.72	19.42	33	-13.58
				50	0	21.69	19.39	33	-13.61
	38000	2595	64QAM	1	0	22.49	20.19	33	-12.81
				1	49	22.47	20.17	33	-12.83
				25	12	21.73	19.43	33	-13.57
	38200	2615	64QAM	50	0	21.83	19.53	33	-13.47
				1	0	22.48	20.18	33	-12.82
				1	49	22.44	20.14	33	-12.86
	37800	2575	256QAM	25	12	21.77	19.47	33	-13.53
				50	0	21.75	19.45	33	-13.55
				1	0	22.40	20.10	33	-12.9
	38000	2595	256QAM	1	49	22.43	20.13	33	-12.87
				25	12	21.88	19.58	33	-13.42
				50	0	21.59	19.29	33	-13.71
	38200	2615	256QAM	1	0	19.38	17.08	33	-15.92
				1	49	19.32	17.02	33	-15.98
				25	12	18.11	15.81	33	-17.19
	37800	2575	256QAM	50	0	18.34	16.04	33	-16.96
				1	0	19.34	17.04	33	-15.96
				1	49	19.21	16.91	33	-16.09
	38000	2595	256QAM	25	12	18.32	16.02	33	-16.98
				50	0	18.38	16.08	33	-16.92
				1	0	19.38	17.08	33	-15.92
	38200	2615	256QAM	1	49	19.23	16.93	33	-16.07
				25	12	18.26	15.96	33	-17.04
				50	0	18.43	16.13	33	-16.87

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Antenna gain (dBi)		-2.3							
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	23.68	21.38	33	-11.62
				1	74	23.59	21.29	33	-11.71
				36	19	22.60	20.30	33	-12.7
				75	0	22.50	20.20	33	-12.8
	38000	2595	QPSK	1	0	23.52	21.22	33	-11.78
				1	74	23.47	21.17	33	-11.83
				36	19	22.58	20.28	33	-12.72
				75	0	22.53	20.23	33	-12.77
	38175	2612.5	QPSK	1	0	23.71	21.41	33	-11.59
				1	74	23.40	21.10	33	-11.9
				36	19	22.39	20.09	33	-12.91
				75	0	22.49	20.19	33	-12.81
	37825	2577.5	16QAM	1	0	22.63	20.33	33	-12.67
				1	74	22.76	20.46	33	-12.54
				36	19	21.88	19.58	33	-13.42
				75	0	21.73	19.43	33	-13.57
	38000	2595	16QAM	1	0	22.73	20.43	33	-12.57
				1	74	22.70	20.40	33	-12.6
				36	19	21.81	19.51	33	-13.49
				75	0	21.84	19.54	33	-13.46
	38175	2612.5	16QAM	1	0	22.65	20.35	33	-12.65
				1	74	22.72	20.42	33	-12.58
				36	19	21.81	19.51	33	-13.49
				75	0	21.83	19.53	33	-13.47
	37825	2577.5	64QAM	1	0	22.46	20.16	33	-12.84
				1	74	22.45	20.15	33	-12.85
				36	19	21.79	19.49	33	-13.51
				75	0	21.97	19.67	33	-13.33
	38000	2595	64QAM	1	0	22.47	20.17	33	-12.83
				1	74	22.46	20.16	33	-12.84
				36	19	21.80	19.50	33	-13.5
				75	0	21.82	19.52	33	-13.48
	38175	2612.5	64QAM	1	0	22.49	20.19	33	-12.81
				1	74	22.43	20.13	33	-12.87
				36	19	21.94	19.64	33	-13.36
				75	0	21.75	19.45	33	-13.55
	37825	2577.5	256QAM	1	0	19.40	17.10	33	-15.9
				1	74	19.44	17.14	33	-15.86
				36	19	18.23	15.93	33	-17.07
				75	0	18.45	16.15	33	-16.85
	38000	2595	256QAM	1	0	19.49	17.19	33	-15.81
				1	74	19.40	17.10	33	-15.9
				36	19	18.42	16.12	33	-16.88
				75	0	18.40	16.10	33	-16.9
	38175	2612.5	256QAM	1	0	19.49	17.19	33	-15.81
				1	74	19.36	17.06	33	-15.94
				36	19	18.29	15.99	33	-17.01
				75	0	18.45	16.15	33	-16.85

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Antenna gain (dBi)		-2.3							
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	23.71	21.41	33	-11.59
				1	99	23.59	21.29	33	-11.71
				50	25	22.71	20.41	33	-12.59
				100	0	22.67	20.37	33	-12.63
	38000	2595	QPSK	1	0	23.66	21.36	33	-11.64
				1	99	23.52	21.22	33	-11.78
				50	25	22.64	20.34	33	-12.66
				100	0	22.64	20.34	33	-12.66
	38150	2610	QPSK	1	0	23.69	21.39	33	-11.61
				1	99	23.53	21.23	33	-11.77
				50	25	22.53	20.23	33	-12.77
				100	0	22.62	20.32	33	-12.68
	37850	2580	16QAM	1	0	22.81	20.51	33	-12.49
				1	99	22.79	20.49	33	-12.51
				50	25	21.91	19.61	33	-13.39
				100	0	21.83	19.53	33	-13.47
	38000	2595	16QAM	1	0	22.80	20.50	33	-12.5
				1	99	22.83	20.53	33	-12.47
				50	25	21.84	19.54	33	-13.46
				100	0	21.95	19.65	33	-13.35
	38150	2610	16QAM	1	0	22.77	20.47	33	-12.53
				1	99	22.72	20.42	33	-12.58
				50	25	21.86	19.56	33	-13.44
				100	0	21.83	19.53	33	-13.47
	37850	2580	64QAM	1	0	22.48	20.18	33	-12.82
				1	99	22.45	20.15	33	-12.85
				50	25	21.90	19.60	33	-13.4
				100	0	21.97	19.67	33	-13.33
	38000	2595	64QAM	1	0	22.46	20.16	33	-12.84
				1	99	22.43	20.13	33	-12.87
				50	25	21.81	19.51	33	-13.49
				100	0	21.86	19.56	33	-13.44
	38150	2610	64QAM	1	0	22.47	20.17	33	-12.83
				1	99	22.48	20.18	33	-12.82
				50	25	21.98	19.68	33	-13.32
				100	0	21.87	19.57	33	-13.43
	37850	2580	256QAM	1	0	19.47	17.17	33	-15.83
				1	99	19.49	17.19	33	-15.81
				50	25	18.41	16.11	33	-16.89
				100	0	18.53	16.23	33	-16.77
38000	2595	256QAM	1	0	19.50	17.20	33	-15.8	
			1	99	19.46	17.16	33	-15.84	
			50	25	18.57	16.27	33	-16.73	
			100	0	18.45	16.15	33	-16.85	
38150	2610	256QAM	1	0	19.47	17.17	33	-15.83	
			1	99	19.43	17.13	33	-15.87	
			50	25	18.48	16.18	33	-16.82	
			100	0	18.45	16.15	33	-16.85	

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Antenna gain (dBi)

-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	23.49	20.49	33	-12.51
				1	24	23.18	20.18	33	-12.82
				12	6	22.20	19.20	33	-13.8
				25	0	22.52	19.52	33	-13.48
	40620	2593	QPSK	1	0	23.18	20.18	33	-12.82
				1	24	23.22	20.22	33	-12.78
				12	6	22.12	19.12	33	-13.88
				25	0	22.33	19.33	33	-13.67
	41565	2687.5	QPSK	1	0	23.59	20.59	33	-12.41
				1	24	23.38	20.38	33	-12.62
				12	6	22.24	19.24	33	-13.76
				25	0	22.37	19.37	33	-13.63
	39675	2498.5	16QAM	1	0	22.50	19.50	33	-13.5
				1	24	22.30	19.30	33	-13.7
				12	6	21.73	18.73	33	-14.27
				25	0	21.79	18.79	33	-14.21
	40620	2593	16QAM	1	0	22.43	19.43	33	-13.57
				1	24	22.28	19.28	33	-13.72
				12	6	21.68	18.68	33	-14.32
				25	0	21.73	18.73	33	-14.27
	41565	2687.5	16QAM	1	0	22.43	19.43	33	-13.57
				1	24	22.46	19.46	33	-13.54
				12	6	21.66	18.66	33	-14.34
				25	0	21.86	18.86	33	-14.14
	39675	2498.5	64QAM	1	0	22.44	19.44	33	-13.56
				1	24	22.41	19.41	33	-13.59
				12	6	21.39	18.39	33	-14.61
				25	0	21.23	18.23	33	-14.77
	40620	2593	64QAM	1	0	22.48	19.48	33	-13.52
				1	24	22.30	19.30	33	-13.7
				12	6	21.53	18.53	33	-14.47
				25	0	21.66	18.66	33	-14.34
	41565	2687.5	64QAM	1	0	22.32	19.32	33	-13.68
				1	24	22.46	19.46	33	-13.54
				12	6	21.55	18.55	33	-14.45
				25	0	21.40	18.40	33	-14.6
	39675	2498.5	256QAM	1	0	19.44	16.44	33	-16.56
				1	24	19.48	16.48	33	-16.52
				12	6	18.55	15.55	33	-17.45
				25	0	18.87	15.87	33	-17.13
	40620	2593	256QAM	1	0	19.44	16.44	33	-16.56
				1	24	19.48	16.48	33	-16.52
				12	6	18.61	15.61	33	-17.39
				25	0	18.64	15.64	33	-17.36
	41565	2687.5	256QAM	1	0	19.24	16.24	33	-16.76
				1	24	19.46	16.46	33	-16.54
				12	6	18.64	15.64	33	-17.36
				25	0	18.52	15.52	33	-17.48

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Antenna gain (dBi)		-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	23.49	20.49	33	-12.51
				1	49	23.24	20.24	33	-12.76
				25	12	22.38	19.38	33	-13.62
				50	0	22.55	19.55	33	-13.45
	40620	2593	QPSK	1	0	23.33	20.33	33	-12.67
				1	49	23.37	20.37	33	-12.63
				25	12	22.24	19.24	33	-13.76
				50	0	22.39	19.39	33	-13.61
	41540	2685	QPSK	1	0	23.59	20.59	33	-12.41
				1	49	23.40	20.40	33	-12.6
				25	12	22.32	19.32	33	-13.68
				50	0	22.45	19.45	33	-13.55
	39700	2501	16QAM	1	0	22.44	19.44	33	-13.56
				1	49	22.32	19.32	33	-13.68
				25	12	21.82	18.82	33	-14.18
				50	0	21.93	18.93	33	-14.07
	40620	2593	16QAM	1	0	22.53	19.53	33	-13.47
				1	49	22.27	19.27	33	-13.73
				25	12	21.78	18.78	33	-14.22
				50	0	21.86	18.86	33	-14.14
	41540	2685	16QAM	1	0	22.60	19.60	33	-13.4
				1	49	22.37	19.37	33	-13.63
				25	12	21.77	18.77	33	-14.23
				50	0	21.87	18.87	33	-14.13
	39700	2501	64QAM	1	0	22.48	19.48	33	-13.52
				1	49	22.46	19.46	33	-13.54
				25	12	21.55	18.55	33	-14.45
				50	0	21.42	18.42	33	-14.58
	40620	2593	64QAM	1	0	22.49	19.49	33	-13.51
				1	49	22.38	19.38	33	-13.62
				25	12	21.65	18.65	33	-14.35
				50	0	21.72	18.72	33	-14.28
	41540	2685	64QAM	1	0	22.48	19.48	33	-13.52
				1	49	22.49	19.49	33	-13.51
				25	12	21.58	18.58	33	-14.42
				50	0	21.56	18.56	33	-14.44
	39700	2501	256QAM	1	0	19.44	16.44	33	-16.56
				1	49	19.49	16.49	33	-16.51
				25	12	18.69	15.69	33	-17.31
				50	0	18.88	15.88	33	-17.12
40620	2593	256QAM	1	0	19.45	16.45	33	-16.55	
			1	49	19.48	16.48	33	-16.52	
			25	12	18.76	15.76	33	-17.24	
			50	0	18.74	15.74	33	-17.26	
41540	2685	256QAM	1	0	19.40	16.40	33	-16.6	
			1	49	19.47	16.47	33	-16.53	
			25	12	18.70	15.70	33	-17.3	
			50	0	18.70	15.70	33	-17.3	

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Antenna gain (dBi)		-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	23.58	20.58	33	-12.42
				1	74	23.33	20.33	33	-12.67
				36	18	22.49	19.49	33	-13.51
				75	0	22.71	19.71	33	-13.29
	40620	2593	QPSK	1	0	23.50	20.50	33	-12.5
				1	74	23.46	20.46	33	-12.54
				36	18	22.30	19.30	33	-13.7
				75	0	22.51	19.51	33	-13.49
	41515	2682.5	QPSK	1	0	23.66	20.66	33	-12.34
				1	74	23.57	20.57	33	-12.43
				36	18	22.46	19.46	33	-13.54
				75	0	22.52	19.52	33	-13.48
	39725	2503.5	16QAM	1	0	22.35	19.35	33	-13.65
				1	74	22.32	19.32	33	-13.68
				36	18	21.87	18.87	33	-14.13
				75	0	21.93	18.93	33	-14.07
	40620	2593	16QAM	1	0	22.56	19.56	33	-13.44
				1	74	22.33	19.33	33	-13.67
				36	18	21.87	18.87	33	-14.13
				75	0	21.96	18.96	33	-14.04
	41515	2682.5	16QAM	1	0	22.60	19.60	33	-13.4
				1	74	22.37	19.37	33	-13.63
				36	18	21.94	18.94	33	-14.06
				75	0	21.88	18.88	33	-14.12
	39725	2503.5	64QAM	1	0	22.49	19.49	33	-13.51
				1	74	22.47	19.47	33	-13.53
				36	18	21.70	18.70	33	-14.3
				75	0	21.60	18.60	33	-14.4
	40620	2593	64QAM	1	0	22.45	19.45	33	-13.55
				1	74	22.49	19.49	33	-13.51
				36	18	21.66	18.66	33	-14.34
				75	0	21.78	18.78	33	-14.22
	41515	2682.5	64QAM	1	0	22.49	19.49	33	-13.51
				1	74	22.48	19.48	33	-13.52
				36	18	21.60	18.60	33	-14.4
				75	0	21.62	18.62	33	-14.38
	39725	2503.5	256QAM	1	0	19.44	16.44	33	-16.56
				1	74	19.49	16.49	33	-16.51
				36	18	18.85	15.85	33	-17.15
				75	0	18.92	15.92	33	-17.08
40620	2593	256QAM	1	0	19.48	16.48	33	-16.52	
			1	74	19.46	16.46	33	-16.54	
			36	18	18.86	15.86	33	-17.14	
			75	0	18.88	15.88	33	-17.12	
41515	2682.5	256QAM	1	0	19.45	16.45	33	-16.55	
			1	74	18.45	15.45	33	-17.55	
			36	18	18.84	15.84	33	-17.16	
			75	0	18.73	15.73	33	-17.27	

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Antenna gain (dBi)		-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	23.66	20.66	33	-12.34
				1	99	23.52	20.52	33	-12.48
				50	25	22.58	19.58	33	-13.42
				100	0	22.73	19.73	33	-13.27
	40620	2593	QPSK	1	0	23.65	20.65	33	-12.35
				1	99	23.51	20.51	33	-12.49
				50	25	22.36	19.36	33	-13.64
				100	0	22.68	19.68	33	-13.32
	41490	2680	QPSK	1	0	23.72	20.72	33	-12.28
				1	99	23.68	20.68	33	-12.32
				50	25	22.55	19.55	33	-13.45
				100	0	22.67	19.67	33	-13.33
	39750	2506	16QAM	1	0	22.54	19.54	33	-13.46
				1	99	22.41	19.41	33	-13.59
				50	25	21.94	18.94	33	-14.06
				100	0	21.95	18.95	33	-14.05
	40620	2593	16QAM	1	0	22.58	19.58	33	-13.42
				1	99	22.42	19.42	33	-13.58
				50	25	21.89	18.89	33	-14.11
				100	0	21.96	18.96	33	-14.04
	41490	2680	16QAM	1	0	22.63	19.63	33	-13.37
				1	99	22.50	19.50	33	-13.5
				50	25	21.97	18.97	33	-14.03
				100	0	21.91	18.91	33	-14.09
	39750	2506	64QAM	1	0	22.47	19.47	33	-13.53
				1	99	22.48	19.48	33	-13.52
				50	25	21.80	18.80	33	-14.2
				100	0	21.64	18.64	33	-14.36
	40620	2593	64QAM	1	0	22.44	19.44	33	-13.56
				1	99	22.42	19.42	33	-13.58
				50	25	21.72	18.72	33	-14.28
				100	0	21.79	18.79	33	-14.21
	41490	2680	64QAM	1	0	22.48	19.48	33	-13.52
				1	99	22.48	19.48	33	-13.52
				50	25	21.68	18.68	33	-14.32
				100	0	21.80	18.80	33	-14.2
	39750	2506	256QAM	1	0	19.31	16.31	33	-16.69
				1	99	19.43	16.43	33	-16.57
				50	25	18.68	15.68	33	-17.32
				100	0	18.62	15.62	33	-17.38
40620	2593	256QAM	1	0	19.46	16.46	33	-16.54	
			1	99	19.44	16.44	33	-16.56	
			50	25	18.66	15.66	33	-17.34	
			100	0	18.65	15.65	33	-17.35	
41490	2680	256QAM	1	0	19.31	16.31	33	-16.69	
			1	99	19.35	16.35	33	-16.65	
			50	25	18.70	15.70	33	-17.3	
			100	0	18.56	15.56	33	-17.44	

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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)
1.4	131979	1710.7	QPSK	1	0	23.24	22.14	30	-7.86
				1	5	23.01	21.91	30	-8.09
				3	2	22.09	20.99	30	-9.01
				6	0	21.99	20.89	30	-9.11
	132322	1745	QPSK	1	0	23.11	22.01	30	-7.99
				1	5	22.82	21.72	30	-8.28
				3	2	21.87	20.77	30	-9.23
				6	0	21.87	20.77	30	-9.23
	132665	1779.3	QPSK	1	0	22.93	21.83	30	-8.17
				1	5	22.69	21.59	30	-8.41
				3	2	22.11	21.01	30	-8.99
				6	0	22.14	21.04	30	-8.96
	131979	1710.7	16QAM	1	0	21.68	20.58	30	-9.42
				1	5	21.88	20.78	30	-9.22
				3	2	20.87	19.77	30	-10.23
				6	0	20.79	19.69	30	-10.31
	132322	1745	16QAM	1	0	22.36	21.26	30	-8.74
				1	5	22.43	21.33	30	-8.67
				3	2	20.81	19.71	30	-10.29
				6	0	20.72	19.62	30	-10.38
	132665	1779.3	16QAM	1	0	22.01	20.91	30	-9.09
				1	5	22.04	20.94	30	-9.06
				3	2	21.09	19.99	30	-10.01
				6	0	21.13	20.03	30	-9.97
	131979	1710.7	64QAM	1	0	22.36	21.26	30	-8.74
				1	5	22.19	21.09	30	-8.91
				3	2	20.93	19.83	30	-10.17
				6	0	20.97	19.87	30	-10.13
	132322	1745	64QAM	1	0	22.23	21.13	30	-8.87
				1	5	22.32	21.22	30	-8.78
				3	2	20.90	19.80	30	-10.2
				6	0	20.83	19.73	30	-10.27
	132665	1779.3	64QAM	1	0	22.19	21.09	30	-8.91
				1	5	21.89	20.79	30	-9.21
				3	2	21.01	19.91	30	-10.09
				6	0	21.11	20.01	30	-9.99
	131979	1710.7	256QAM	1	0	19.48	18.38	30	-11.62
				1	5	19.20	18.10	30	-11.9
				3	2	18.63	17.53	30	-12.47
				6	0	18.61	17.51	30	-12.49
	132322	1745	256QAM	1	0	19.40	18.30	30	-11.7
				1	5	19.43	18.33	30	-11.67
				3	2	18.72	17.62	30	-12.38
				6	0	18.53	17.43	30	-12.57
	132665	1779.3	256QAM	1	0	19.43	18.33	30	-11.67
				1	5	19.25	18.15	30	-11.85
				3	2	18.57	17.47	30	-12.53
				6	0	18.56	17.46	30	-12.54

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Antenna gain (dBi)		-1.1							
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	23.29	22.19	30	-7.81
				1	14	23.07	21.97	30	-8.03
				8	4	22.12	21.02	30	-8.98
				15	0	22.09	20.99	30	-9.01
	132322	1745	QPSK	1	0	23.27	22.17	30	-7.83
				1	14	22.86	21.76	30	-8.24
				8	4	21.93	20.83	30	-9.17
				15	0	21.95	20.85	30	-9.15
	132657	1778.5	QPSK	1	0	23.04	21.94	30	-8.06
				1	14	22.82	21.72	30	-8.28
				8	4	22.22	21.12	30	-8.88
				15	0	22.15	21.05	30	-8.95
	131987	1711.5	16QAM	1	0	21.80	20.70	30	-9.3
				1	14	21.93	20.83	30	-9.17
				8	4	21.06	19.96	30	-10.04
				15	0	20.84	19.74	30	-10.26
	132322	1745	16QAM	1	0	22.48	21.38	30	-8.62
				1	14	22.58	21.48	30	-8.52
				8	4	20.91	19.81	30	-10.19
				15	0	20.90	19.80	30	-10.2
	132657	1778.5	16QAM	1	0	22.20	21.10	30	-8.9
				1	14	22.11	21.01	30	-8.99
				8	4	21.11	20.01	30	-9.99
				15	0	21.16	20.06	30	-9.94
	131987	1711.5	64QAM	1	0	22.50	21.40	30	-8.6
				1	14	22.34	21.24	30	-8.76
				8	4	21.05	19.95	30	-10.05
				15	0	21.01	19.91	30	-10.09
	132322	1745	64QAM	1	0	22.24	21.14	30	-8.86
				1	14	22.35	21.25	30	-8.75
				8	4	21.01	19.91	30	-10.09
				15	0	20.90	19.80	30	-10.2
	132657	1778.5	64QAM	1	0	22.19	21.09	30	-8.91
				1	14	22.02	20.92	30	-9.08
				8	4	21.05	19.95	30	-10.05
				15	0	21.25	20.15	30	-9.85
	131987	1711.5	256QAM	1	0	19.44	18.34	30	-11.66
				1	14	19.04	17.94	30	-12.06
				8	4	18.45	17.35	30	-12.65
				15	0	19.36	18.26	30	-11.74
	132322	1745	256QAM	1	0	19.25	18.15	30	-11.85
				1	14	18.53	17.43	30	-12.57
				8	4	18.46	17.36	30	-12.64
				15	0	19.33	18.23	30	-11.77
	132657	1778.5	256QAM	1	0	19.33	18.23	30	-11.77
				1	14	19.18	18.08	30	-11.92
				8	4	18.44	17.34	30	-12.66
				15	0	18.43	17.33	30	-12.67

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Antenna gain (dBi)		-1.1							
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	23.38	22.28	30	-7.72
				1	24	23.18	22.08	30	-7.92
				12	6	22.15	21.05	30	-8.95
				25	0	22.18	21.08	30	-8.92
	132322	1745	QPSK	1	0	23.41	22.31	30	-7.69
				1	24	23.00	21.90	30	-8.1
				12	6	22.06	20.96	30	-9.04
				25	0	22.00	20.90	30	-9.1
	132647	1777.5	QPSK	1	0	23.10	22.00	30	-8
				1	24	22.93	21.83	30	-8.17
				12	6	22.34	21.24	30	-8.76
				25	0	22.17	21.07	30	-8.93
	131997	1712.5	16QAM	1	0	21.97	20.87	30	-9.13
				1	24	22.10	21.00	30	-9
				12	6	21.11	20.01	30	-9.99
				25	0	20.94	19.84	30	-10.16
	132322	1745	16QAM	1	0	22.48	21.38	30	-8.62
				1	24	22.60	21.50	30	-8.5
				12	6	21.09	19.99	30	-10.01
				25	0	21.05	19.95	30	-10.05
	132647	1777.5	16QAM	1	0	22.36	21.26	30	-8.74
				1	24	22.21	21.11	30	-8.89
				12	6	21.26	20.16	30	-9.84
				25	0	21.19	20.09	30	-9.91
	131997	1712.5	64QAM	1	0	22.49	21.39	30	-8.61
				1	24	22.42	21.32	30	-8.68
				12	6	21.13	20.03	30	-9.97
				25	0	21.09	19.99	30	-10.01
	132322	1745	64QAM	1	0	22.31	21.21	30	-8.79
				1	24	22.41	21.31	30	-8.69
				12	6	21.19	20.09	30	-9.91
				25	0	20.94	19.84	30	-10.16
	132647	1777.5	64QAM	1	0	22.21	21.11	30	-8.89
				1	24	22.05	20.95	30	-9.05
				12	6	21.22	20.12	30	-9.88
				25	0	21.31	20.21	30	-9.79
	131997	1712.5	256QAM	1	0	19.49	18.39	30	-11.61
				1	24	19.12	18.02	30	-11.98
				12	6	18.59	17.49	30	-12.51
				25	0	18.59	17.49	30	-12.51
	132322	1745	256QAM	1	0	19.46	18.36	30	-11.64
				1	24	19.42	18.32	30	-11.68
				12	6	18.63	17.53	30	-12.47
				25	0	18.46	17.36	30	-12.64
	132647	1777.5	256QAM	1	0	19.41	18.31	30	-11.69
				1	24	19.31	18.21	30	-11.79
				12	6	18.45	17.35	30	-12.65
				25	0	18.60	17.50	30	-12.5

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Antenna gain (dBi)		-1.1							
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	23.43	22.33	30	-7.67
				1	49	23.22	22.12	30	-7.88
				25	12	22.19	21.09	30	-8.91
				50	0	22.30	21.20	30	-8.8
	132322	1745	QPSK	1	0	23.45	22.35	30	-7.65
				1	49	23.08	21.98	30	-8.02
				25	12	22.19	21.09	30	-8.91
				50	0	22.15	21.05	30	-8.95
	132622	1775	QPSK	1	0	23.28	22.18	30	-7.82
				1	49	23.02	21.92	30	-8.08
				25	12	22.45	21.35	30	-8.65
				50	0	22.23	21.13	30	-8.87
	132022	1715	16QAM	1	0	22.16	21.06	30	-8.94
				1	49	22.17	21.07	30	-8.93
				25	12	21.27	20.17	30	-9.83
				50	0	21.13	20.03	30	-9.97
	132322	1745	16QAM	1	0	22.60	21.50	30	-8.5
				1	49	22.65	21.55	30	-8.45
				25	12	21.18	20.08	30	-9.92
				50	0	21.24	20.14	30	-9.86
	132622	1775	16QAM	1	0	22.44	21.34	30	-8.66
				1	49	22.24	21.14	30	-8.86
				25	12	21.36	20.26	30	-9.74
				50	0	21.20	20.10	30	-9.9
	132022	1715	64QAM	1	0	22.47	21.37	30	-8.63
				1	49	22.49	21.39	30	-8.61
				25	12	21.24	20.14	30	-9.86
				50	0	21.28	20.18	30	-9.82
	132322	1745	64QAM	1	0	22.35	21.25	30	-8.75
				1	49	22.47	21.37	30	-8.63
				25	12	21.33	20.23	30	-9.77
				50	0	21.08	19.98	30	-10.02
	132622	1775	64QAM	1	0	22.34	21.24	30	-8.76
				1	49	22.22	21.12	30	-8.88
				25	12	21.36	20.26	30	-9.74
				50	0	21.37	20.27	30	-9.73
	132022	1715	256QAM	1	0	19.40	18.30	30	-11.7
				1	49	19.19	18.09	30	-11.91
				25	12	18.49	17.39	30	-12.61
				50	0	18.68	17.58	30	-12.42
	132322	1745	256QAM	1	0	19.45	18.35	30	-11.65
				1	49	19.38	18.28	30	-11.72
				25	12	18.56	17.46	30	-12.54
				50	0	18.51	17.41	30	-12.59
	132622	1775	256QAM	1	0	19.41	18.31	30	-11.69
				1	49	19.33	18.23	30	-11.77
				25	12	18.43	17.33	30	-12.67
				50	0	18.62	17.52	30	-12.48

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Antenna gain (dBi)		-1.1							
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	23.50	22.40	30	-7.6
				1	74	23.35	22.25	30	-7.75
				36	18	22.34	21.24	30	-8.76
				75	0	22.42	21.32	30	-8.68
	132322	1745	QPSK	1	0	23.54	22.44	30	-7.56
				1	74	23.10	22.00	30	-8
				36	18	22.28	21.18	30	-8.82
				75	0	22.29	21.19	30	-8.81
	132597	1772.5	QPSK	1	0	23.42	22.32	30	-7.68
				1	74	23.12	22.02	30	-7.98
				36	18	22.49	21.39	30	-8.61
				75	0	22.30	21.20	30	-8.8
	132047	1717.5	16QAM	1	0	22.31	21.21	30	-8.79
				1	74	22.24	21.14	30	-8.86
				36	18	21.32	20.22	30	-9.78
				75	0	21.28	20.18	30	-9.82
	132322	1745	16QAM	1	0	22.64	21.54	30	-8.46
				1	74	22.72	21.62	30	-8.38
				36	18	21.37	20.27	30	-9.73
				75	0	21.34	20.24	30	-9.76
	132597	1772.5	16QAM	1	0	22.44	21.34	30	-8.66
				1	74	22.28	21.18	30	-8.82
				36	18	21.48	20.38	30	-9.62
				75	0	21.28	20.18	30	-9.82
	132047	1717.5	64QAM	1	0	22.48	21.38	30	-8.62
				1	74	22.46	21.36	30	-8.64
				36	18	21.33	20.23	30	-9.77
				75	0	21.33	20.23	30	-9.77
	132322	1745	64QAM	1	0	22.41	21.31	30	-8.69
				1	74	22.49	21.39	30	-8.61
				36	18	21.33	20.23	30	-9.77
				75	0	21.27	20.17	30	-9.83
	132597	1772.5	64QAM	1	0	22.50	21.40	30	-8.6
				1	74	22.33	21.23	30	-8.77
				36	18	21.52	20.42	30	-9.58
				75	0	21.45	20.35	30	-9.65
	132047	1717.5	256QAM	1	0	19.45	18.35	30	-11.65
				1	74	19.32	18.22	30	-11.78
				36	18	18.66	17.56	30	-12.44
				75	0	18.74	17.64	30	-12.36
	132322	1745	256QAM	1	0	19.50	18.40	30	-11.6
				1	74	19.50	18.40	30	-11.6
				36	18	18.61	17.51	30	-12.49
				75	0	18.57	17.47	30	-12.53
	132597	1772.5	256QAM	1	0	19.41	18.31	30	-11.69
				1	74	19.36	18.26	30	-11.74
				36	18	18.61	17.51	30	-12.49
				75	0	18.62	17.52	30	-12.48

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Antenna gain (dBi)		-1.1							
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	23.55	22.45	30	-7.55
				1	99	23.41	22.31	30	-7.69
				50	25	22.47	21.37	30	-8.63
				100	0	22.44	21.34	30	-8.66
	132322	1745	QPSK	1	0	23.57	22.47	30	-7.53
				1	99	23.19	22.09	30	-7.91
				50	25	22.49	21.39	30	-8.61
				100	0	22.41	21.31	30	-8.69
	132572	1770	QPSK	1	0	23.45	22.35	30	-7.65
				1	99	23.28	22.18	30	-7.82
				50	25	22.57	21.47	30	-8.53
				100	0	22.42	21.32	30	-8.68
	132072	1720	16QAM	1	0	22.38	21.28	30	-8.72
				1	99	22.41	21.31	30	-8.69
				50	25	21.43	20.33	30	-9.67
				100	0	21.42	20.32	30	-9.68
	132322	1745	16QAM	1	0	22.64	21.54	30	-8.46
				1	99	22.77	21.67	30	-8.33
				50	25	21.44	20.34	30	-9.66
				100	0	21.51	20.41	30	-9.59
	132572	1770	16QAM	1	0	22.56	21.46	30	-8.54
				1	99	22.33	21.23	30	-8.77
				50	25	21.55	20.45	30	-9.55
				100	0	21.42	20.32	30	-9.68
	132072	1720	64QAM	1	0	22.49	21.39	30	-8.61
				1	99	22.45	21.35	30	-8.65
				50	25	21.50	20.40	30	-9.6
				100	0	21.46	20.36	30	-9.64
	132322	1745	64QAM	1	0	22.46	21.36	30	-8.64
				1	99	22.45	21.35	30	-8.65
				50	25	21.50	20.40	30	-9.6
				100	0	21.46	20.36	30	-9.64
	132572	1770	64QAM	1	0	22.41	21.31	30	-8.69
				1	99	22.43	21.33	30	-8.67
				50	25	21.57	20.47	30	-9.53
				100	0	21.48	20.38	30	-9.62
	132072	1720	256QAM	1	0	19.44	18.34	30	-11.66
				1	99	19.30	18.20	30	-11.8
				50	25	18.55	17.45	30	-12.55
				100	0	18.58	17.48	30	-12.52
132322	1745	256QAM	1	0	19.34	18.24	30	-11.76	
			1	99	19.32	18.22	30	-11.78	
			50	25	18.55	17.45	30	-12.55	
			100	0	18.42	17.32	30	-12.68	
132572	1770	256QAM	1	0	19.27	18.17	30	-11.83	
			1	99	19.18	18.08	30	-11.92	
			50	25	18.56	17.46	30	-12.54	
			100	0	18.48	17.38	30	-12.62	

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LTE Band 71_Uplink frequency band : 663 to 698 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	ERP Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	ERP Limit (dBm/10MHz)	Margin (dBm/10MHz)
5	133147	665.5	QPSK	1	0	23.44	17.29	19.44	34.77	-17.48
				1	24	23.28	17.13	19.28	34.77	-17.64
				12	6	22.33	16.18	18.33	34.77	-18.59
				25	0	22.51	16.36	18.51	34.77	-18.41
	133297	680.5	QPSK	1	0	23.55	17.40	19.55	34.77	-17.37
				1	24	22.91	16.76	18.91	34.77	-18.01
				12	6	22.52	16.37	18.52	34.77	-18.40
				25	0	22.26	16.11	18.26	34.77	-18.66
	133447	695.5	QPSK	1	0	23.42	17.27	19.42	34.77	-17.50
				1	24	22.99	16.84	18.99	34.77	-17.93
				12	6	22.34	16.19	18.34	34.77	-18.58
				25	0	22.32	16.17	18.32	34.77	-18.60
	133147	665.5	16QAM	1	0	22.55	16.40	18.55	34.77	-18.37
				1	24	22.09	15.94	18.09	34.77	-18.83
				12	6	21.29	15.14	17.29	34.77	-19.63
				25	0	21.42	15.27	17.42	34.77	-19.50
	133297	680.5	16QAM	1	0	22.28	16.13	18.28	34.77	-18.64
				1	24	21.83	15.68	17.83	34.77	-19.09
				12	6	21.44	15.29	17.44	34.77	-19.48
				25	0	21.45	15.30	17.45	34.77	-19.47
	133447	695.5	16QAM	1	0	22.26	16.11	18.26	34.77	-18.66
				1	24	22.00	15.85	18.00	34.77	-18.92
				12	6	21.26	15.11	17.26	34.77	-19.66
				25	0	21.32	15.17	17.32	34.77	-19.60
	133147	665.5	64QAM	1	0	22.38	16.23	18.38	34.77	-18.54
				1	24	21.82	15.67	17.82	34.77	-19.10
				12	6	21.27	15.12	17.27	34.77	-19.65
				25	0	21.35	15.20	17.35	34.77	-19.57
	133297	680.5	64QAM	1	0	22.43	16.28	18.43	34.77	-18.49
				1	24	21.98	15.83	17.98	34.77	-18.94
				12	6	21.23	15.08	17.23	34.77	-19.69
				25	0	21.24	15.09	17.24	34.77	-19.68
	133447	695.5	64QAM	1	0	22.31	16.16	18.31	34.77	-18.61
				1	24	22.07	15.92	18.07	34.77	-18.85
				12	6	21.18	15.03	17.18	34.77	-19.74
				25	0	21.12	14.97	17.12	34.77	-19.80
	133147	665.5	256QAM	1	0	19.42	13.27	15.42	34.77	-21.50
				1	24	19.48	13.33	15.48	34.77	-21.44
				12	6	18.91	12.76	14.91	34.77	-22.01
				25	0	18.25	12.10	14.25	34.77	-22.67
	133297	680.5	256QAM	1	0	19.48	13.33	15.48	34.77	-21.44
				1	24	19.46	13.31	15.46	34.77	-21.46
				12	6	18.74	12.59	14.74	34.77	-22.18
				25	0	18.59	12.44	14.59	34.77	-22.33
	133447	695.5	256QAM	1	0	19.47	13.32	15.47	34.77	-21.45
				1	24	19.34	13.19	15.34	34.77	-21.58
				12	6	18.55	12.40	14.55	34.77	-22.37
				25	0	18.71	12.56	14.71	34.77	-22.21

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Antenna gain (dBi)		-4								
LTE Band 71_Uplink frequency band : 663 to 698 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	ERP Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	ERP Limit (dBm/10MHz)	Margin (dBm/10MHz)
10	133172	668	QPSK	1	0	23.63	17.48	19.63	34.77	-17.29
				1	49	23.29	17.14	19.29	34.77	-17.63
				25	12	22.45	16.30	18.45	34.77	-18.47
				50	0	22.69	16.54	18.69	34.77	-18.23
	133297	680.5	QPSK	1	0	23.65	17.50	19.65	34.77	-17.27
				1	49	23.02	16.87	19.02	34.77	-17.90
				25	12	22.52	16.37	18.52	34.77	-18.40
				50	0	22.45	16.30	18.45	34.77	-18.47
	133422	693	QPSK	1	0	23.57	17.42	19.57	34.77	-17.35
				1	49	23.07	16.92	19.07	34.77	-17.85
				25	12	22.40	16.25	18.40	34.77	-18.52
				50	0	22.33	16.18	18.33	34.77	-18.59
	133172	668	16QAM	1	0	22.56	16.41	18.56	34.77	-18.36
				1	49	22.28	16.13	18.28	34.77	-18.64
				25	12	21.40	15.25	17.40	34.77	-19.52
				50	0	21.60	15.45	17.60	34.77	-19.32
	133297	680.5	16QAM	1	0	22.46	16.31	18.46	34.77	-18.46
				1	49	21.98	15.83	17.98	34.77	-18.94
				25	12	21.47	15.32	17.47	34.77	-19.45
				50	0	21.47	15.32	17.47	34.77	-19.45
	133422	693	16QAM	1	0	22.37	16.22	18.37	34.77	-18.55
				1	49	22.19	16.04	18.19	34.77	-18.73
				25	12	21.35	15.20	17.35	34.77	-19.57
				50	0	21.35	15.20	17.35	34.77	-19.57
	133172	668	64QAM	1	0	22.43	16.28	18.43	34.77	-18.49
				1	49	21.98	15.83	17.98	34.77	-18.94
				25	12	21.39	15.24	17.39	34.77	-19.53
				50	0	21.38	15.23	17.38	34.77	-19.54
	133297	680.5	64QAM	1	0	22.43	16.28	18.43	34.77	-18.49
				1	49	22.03	15.88	18.03	34.77	-18.89
				25	12	21.29	15.14	17.29	34.77	-19.63
				50	0	21.39	15.24	17.39	34.77	-19.53
	133422	693	64QAM	1	0	22.44	16.29	18.44	34.77	-18.48
				1	49	22.11	15.96	18.11	34.77	-18.81
				25	12	21.19	15.04	17.19	34.77	-19.73
				50	0	21.19	15.04	17.19	34.77	-19.73
	133172	668	256QAM	1	0	19.07	12.92	15.07	34.77	-21.85
				1	49	19.20	13.05	15.20	34.77	-21.72
				25	12	18.51	12.36	14.51	34.77	-22.41
				50	0	18.04	11.89	14.04	34.77	-22.88
	133297	680.5	256QAM	1	0	19.47	13.32	15.47	34.77	-21.45
				1	49	19.29	13.14	15.29	34.77	-21.63
				25	12	18.41	12.26	14.41	34.77	-22.51
				50	0	18.38	12.23	14.38	34.77	-22.54
	133422	693	256QAM	1	0	19.44	13.29	15.44	34.77	-21.48
				1	49	19.10	12.95	15.10	34.77	-21.82
				25	12	18.23	12.08	14.23	34.77	-22.69
				50	0	18.40	12.25	14.40	34.77	-22.52

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Antenna gain (dBi)										
		-4								
LTE Band 71_Uplink frequency band : 663 to 698 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	ERP Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
15	133197	670.5	QPSK	1	0	23.67	17.52	19.67	34.77	-17.25
				1	74	23.47	17.32	19.47	34.77	-17.45
				36	18	22.61	16.46	18.61	34.77	-18.31
				75	0	22.72	16.57	18.72	34.77	-18.20
	133297	680.5	QPSK	1	0	23.69	17.54	19.69	34.77	-17.23
				1	74	23.13	16.98	19.13	34.77	-17.79
				36	18	22.59	16.44	18.59	34.77	-18.33
				75	0	22.60	16.45	18.60	34.77	-18.32
	133397	690.5	QPSK	1	0	23.59	17.44	19.59	34.77	-17.33
				1	74	23.18	17.03	19.18	34.77	-17.74
				36	18	22.49	16.34	18.49	34.77	-18.43
				75	0	22.39	16.24	18.39	34.77	-18.53
	133197	670.5	16QAM	1	0	22.59	16.44	18.59	34.77	-18.33
				1	74	22.41	16.26	18.41	34.77	-18.51
				36	18	21.45	15.30	17.45	34.77	-19.47
				75	0	21.65	15.50	17.65	34.77	-19.27
	133297	680.5	16QAM	1	0	22.54	16.39	18.54	34.77	-18.38
				1	74	22.09	15.94	18.09	34.77	-18.83
				36	18	21.62	15.47	17.62	34.77	-19.30
				75	0	21.59	15.44	17.59	34.77	-19.33
	133397	690.5	16QAM	1	0	22.49	16.34	18.49	34.77	-18.43
				1	74	22.22	16.07	18.22	34.77	-18.70
				36	18	21.39	15.24	17.39	34.77	-19.53
				75	0	21.36	15.21	17.36	34.77	-19.56
	133197	670.5	64QAM	1	0	22.43	16.28	18.43	34.77	-18.49
				1	74	22.13	15.98	18.13	34.77	-18.79
				36	18	21.48	15.33	17.48	34.77	-19.44
				75	0	21.57	15.42	17.57	34.77	-19.35
	133297	680.5	64QAM	1	0	22.47	16.32	18.47	34.77	-18.45
				1	74	22.05	15.90	18.05	34.77	-18.87
				36	18	21.44	15.29	17.44	34.77	-19.48
				75	0	21.57	15.42	17.57	34.77	-19.35
	133397	690.5	64QAM	1	0	22.50	16.35	18.50	34.77	-18.42
				1	74	22.24	16.09	18.24	34.77	-18.68
				36	18	21.33	15.18	17.33	34.77	-19.59
				75	0	21.25	15.10	17.25	34.77	-19.67
	133197	670.5	256QAM	1	0	19.05	12.90	15.05	34.77	-21.87
				1	74	19.13	12.98	15.13	34.77	-21.79
				36	18	18.35	12.20	14.35	34.77	-22.57
				75	0	18.02	11.87	14.02	34.77	-22.90
	133297	680.5	256QAM	1	0	19.45	13.30	15.45	34.77	-21.47
				1	74	19.26	13.11	15.26	34.77	-21.66
				36	18	18.33	12.18	14.33	34.77	-22.59
				75	0	18.34	12.19	14.34	34.77	-22.58
	133397	690.5	256QAM	1	0	19.33	13.18	15.33	34.77	-21.59
				1	74	19.05	12.90	15.05	34.77	-21.87
				36	18	18.22	12.07	14.22	34.77	-22.70
				75	0	18.22	12.07	14.22	34.77	-22.70

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Antenna gain (dBi)										
		-4								
LTE Band 71_Uplink frequency band : 663 to 698 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	ERP Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	ERP Limit (dBm/10MHz)	Margin (dBm/10M Hz)
20	133222	673	QPSK	1	0	23.71	17.56	19.71	34.77	-17.21
				1	99	23.51	17.36	19.51	34.77	-17.41
				50	25	22.78	16.63	18.78	34.77	-18.14
				100	0	22.79	16.64	18.79	34.77	-18.13
	133297	680.5	QPSK	1	0	23.70	17.55	19.70	34.77	-17.22
				1	99	23.24	17.09	19.24	34.77	-17.68
				50	25	22.66	16.51	18.66	34.77	-18.26
				100	0	22.66	16.51	18.66	34.77	-18.26
	133372	688	QPSK	1	0	23.75	17.60	19.75	34.77	-17.17
				1	99	23.36	17.21	19.36	34.77	-17.56
				50	25	22.56	16.41	18.56	34.77	-18.36
				100	0	22.56	16.41	18.56	34.77	-18.36
	133222	673	16QAM	1	0	22.71	16.56	18.71	34.77	-18.21
				1	99	22.45	16.30	18.45	34.77	-18.47
				50	25	21.62	15.47	17.62	34.77	-19.30
				100	0	21.79	15.64	17.79	34.77	-19.13
	133297	680.5	16QAM	1	0	22.61	16.46	18.61	34.77	-18.31
				1	99	22.23	16.08	18.23	34.77	-18.69
				50	25	21.64	15.49	17.64	34.77	-19.28
				100	0	21.62	15.47	17.62	34.77	-19.30
	133372	688	16QAM	1	0	22.60	16.45	18.60	34.77	-18.32
				1	99	22.31	16.16	18.31	34.77	-18.61
				50	25	21.49	15.34	17.49	34.77	-19.43
				100	0	21.37	15.22	17.37	34.77	-19.55
	133222	673	64QAM	1	0	22.49	16.34	18.49	34.77	-18.43
				1	99	22.31	16.16	18.31	34.77	-18.61
				50	25	21.55	15.40	17.55	34.77	-19.37
				100	0	21.75	15.60	17.75	34.77	-19.17
	133297	680.5	64QAM	1	0	22.47	16.32	18.47	34.77	-18.45
				1	99	22.05	15.90	18.05	34.77	-18.87
				50	25	21.52	15.37	17.52	34.77	-19.40
				100	0	21.61	15.46	17.61	34.77	-19.31
	133372	688	64QAM	1	0	22.43	16.28	18.43	34.77	-18.49
				1	99	22.25	16.10	18.25	34.77	-18.67
				50	25	21.45	15.30	17.45	34.77	-19.47
				100	0	21.27	15.12	17.27	34.77	-19.65
	133222	673	256QAM	1	0	19.22	13.07	15.22	34.77	-21.70
				1	99	19.35	13.20	15.35	34.77	-21.57
				50	25	18.48	12.33	14.48	34.77	-22.44
				100	0	18.31	12.16	14.31	34.77	-22.61
	133297	680.5	256QAM	1	0	19.47	13.32	15.47	34.77	-21.45
				1	99	19.41	13.26	15.41	34.77	-21.51
				50	25	18.54	12.39	14.54	34.77	-22.38
				100	0	18.61	12.46	14.61	34.77	-22.31
	133372	688	256QAM	1	0	19.50	13.35	15.50	34.77	-21.42
				1	99	19.21	13.06	15.21	34.77	-21.71
				50	25	18.48	12.33	14.48	34.77	-22.44
				100	0	18.50	12.35	14.50	34.77	-22.42

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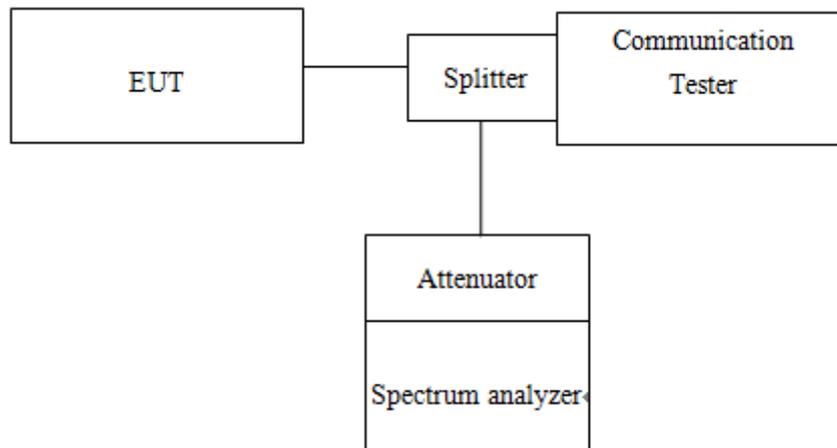
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7 OCCUPIED BANDWIDTH MEASUREMENT

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, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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7.4 Measurement Equipment Used 2/3G

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

4G

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

7.5 Measurement Result

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		GSM 850	GPRS 850	EDGE 850	GSM 850	GPRS 850	EDGE 850
824.2	128	0.24720	0.24436	0.24627	0.3105	0.3176	0.3211
836.6	190	0.24438	0.24512	0.24383	0.3176	0.3225	0.3203
848.8	251	0.24435	0.24497	0.24433	0.3230	0.3178	0.3149

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		GSM 1900	GPRS 1900	EDGE 1900	GSM 1900	GPRS 1900	EDGE 1900
1850.2	512	0.24565	0.24293	0.24019	0.3149	0.3198	0.3159
1880.0	661	0.24172	0.24593	0.24394	0.3171	0.3144	0.3171
1909.8	810	0.24670	0.23988	0.24521	0.3172	0.3166	0.3161

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Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA
		II	II	II	II	II	II
1852.40	9262	4.14380	4.13010	4.13990	4.678	4.689	4.684
1880.00	9400	4.13820	4.14090	4.14060	4.687	4.706	4.673
1907.60	9538	4.13450	4.12430	4.12850	4.688	4.688	4.685

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA
		IV	IV	IV	IV	IV	IV
1712.40	1312	4.14240	4.14600	4.13280	4.691	4.690	4.682
1732.60	1413	4.13840	4.14030	4.12210	4.685	4.679	4.690
1752.60	1513	4.13870	4.14970	4.13030	4.681	4.681	4.674

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA
		V	V	V	V	V	V
826.40	4132	4.14740	4.13410	4.14160	4.702	4.682	4.690
836.60	4183	4.13060	4.13120	4.13860	4.672	4.695	4.685
846.60	4233	4.13240	4.11600	4.12770	4.682	4.668	4.674

LTE BAND 2 Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1850.7	18607	1.0940	1.0974	1.0953	1.0871	1.243	1.237	1.243	1.229
1880.0	18900	1.0956	1.0999	1.0962	1.0892	1.239	1.243	1.241	1.233
1909.3	19193	1.0908	1.0983	1.0943	1.0887	1.238	1.241	1.250	1.232

LTE BAND 2 Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1851.5	18615	2.6926	2.7117	2.7037	2.7004	2.993	3.043	2.993	3.003
1880.0	18900	2.6933	2.7108	2.7038	2.7035	2.984	3.043	2.998	3.014
1908.5	19185	2.6935	2.7097	2.7037	2.7047	2.982	3.033	2.993	3.005

LTE BAND 2 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1852.5	18625	4.4939	4.4902	4.5039	4.4868	4.974	4.910	4.970	4.919
1880.0	18900	4.4898	4.4878	4.5028	4.4857	4.996	4.923	4.961	4.914
1907.5	19175	4.4917	4.4898	4.5008	4.4856	4.979	4.920	4.954	4.912

LTE BAND 2 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1855.0	18650	8.9872	8.9567	8.9847	8.9716	9.847	9.792	9.792	9.839
1880.0	18900	9.0045	8.9528	8.9808	8.9678	9.826	9.796	9.784	9.749
1905.0	19150	9.0053	8.9633	8.9975	8.9543	9.818	9.810	9.850	9.717

LTE BAND 2 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1857.5	18675	13.436	13.466	13.473	13.462	14.26	14.66	14.81	14.62
1880.0	18900	13.501	13.475	13.479	13.450	14.67	14.68	14.70	14.63
1902.5	19125	13.468	13.449	13.459	13.448	14.66	14.63	14.75	14.72

LTE BAND 2 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1860.0	18700	17.906	17.937	17.922	17.933	19.46	19.46	19.38	19.34
1880.0	18900	17.947	17.968	17.939	17.911	19.51	19.53	19.53	19.26
1900.0	19100	17.928	17.954	17.929	17.924	19.41	19.48	19.48	19.35

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LTE BAND 4 Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1710.7	19957	1.0951	1.0996	1.0928	1.0889	1.233	1.229	1.242	1.231
1732.5	20175	1.0929	1.1001	1.0959	1.0893	1.240	1.237	1.244	1.233
1754.3	20393	1.0958	1.1001	1.0994	1.0884	1.235	1.233	1.243	1.235

LTE BAND 4 Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1711.5	19965	2.6939	2.6950	2.7021	2.6980	2.981	3.007	3.020	3.008
1732.5	20175	2.6980	2.6984	2.7024	2.7051	2.972	3.009	3.001	3.017
1753.5	20385	2.6984	2.6989	2.7007	2.6983	2.974	2.999	3.003	3.006

LTE BAND 4 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1712.5	19957	4.4901	4.4873	4.5039	4.4871	4.976	4.923	4.961	4.922
1732.5	20175	4.4915	4.4845	4.5009	4.4855	4.988	4.922	4.953	4.912
1752.5	20375	4.4941	4.4874	4.4997	4.4868	4.972	4.920	4.977	4.917

LTE BAND 4 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1715.0	20000	8.9792	8.9507	8.9785	8.9795	9.842	9.829	9.830	9.784
1732.5	20175	9.0018	8.9499	8.9796	8.9708	9.762	9.811	9.824	9.702
1750.0	20350	9.0072	8.9536	8.9994	8.9590	9.759	9.790	9.839	9.714

LTE BAND 4 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1717.5	20025	13.465	13.462	13.468	13.471	14.70	14.68	14.75	14.61
1732.5	20175	13.502	13.468	13.467	13.452	14.63	14.63	14.74	14.62
1747.5	20325	13.477	13.466	13.487	13.448	14.74	14.63	14.67	14.58

LTE BAND 4 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1720.0	20050	17.944	17.942	17.932	17.921	19.44	19.33	19.45	19.31
1732.5	20175	17.925	17.910	17.903	17.915	19.40	19.31	19.50	19.41
1745.0	20300	17.915	17.902	17.922	17.913	19.41	19.34	19.50	19.28

LTE BAND 5 Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
824.7	20407	1.0956	1.0971	1.0948	1.0880	1.236	1.237	1.250	1.231
836.5	20525	1.0920	1.0986	1.0948	1.0872	1.240	1.235	1.241	1.226
848.3	20643	1.0940	1.0962	1.0964	1.0882	1.236	1.237	1.251	1.229

LTE BAND 5 Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
825.5	20415	2.6938	2.7131	2.7018	2.7020	2.984	3.046	2.991	3.015
836.5	20525	2.6972	2.7080	2.6976	2.7054	2.997	3.042	2.988	3.008
847.5	20635	2.6954	2.7085	2.6964	2.7048	2.994	3.044	3.005	3.022

LTE BAND 5 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
826.5	20425	4.4917	4.4845	4.4966	4.4882	4.997	4.909	4.967	4.910
836.5	20525	4.4885	4.4810	4.4889	4.4831	4.968	4.905	4.966	4.906
846.5	20625	4.4879	4.4760	4.4905	4.4854	4.973	4.903	4.935	4.902

LTE BAND 5 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
829.0	20450	9.0134	8.9620	8.9981	8.9767	9.838	9.766	9.865	9.809
836.5	20525	8.9838	8.9432	8.9617	8.9534	9.738	9.758	9.747	9.768
844.0	20600	8.9959	8.9406	8.9730	8.9533	9.816	9.767	9.822	9.762

LTE BAND 7 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2502.5	20775	4.4834	4.4863	4.5048	4.4885	4.813	4.932	4.990	4.912
2535.0	21100	4.4889	4.4859	4.4981	4.4914	4.988	4.924	4.952	4.918
2567.5	21425	4.4954	4.4859	4.4981	4.4903	4.984	4.938	4.944	4.910

LTE BAND 7 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2505.0	20800	9.0049	8.9692	8.9931	8.9844	9.839	9.842	9.815	9.748
2535.0	21100	8.9882	8.9506	8.9985	8.9635	9.797	9.782	9.768	9.724
2565.0	21400	8.9867	8.9512	8.9753	8.9644	9.805	9.790	9.850	9.766

LTE BAND 7 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2507.5	20825	13.463	13.461	13.467	13.470	14.70	14.71	14.75	14.65
2535.0	21100	13.471	13.477	13.466	13.457	14.72	14.73	14.76	14.74
2562.5	21375	13.467	13.473	13.476	13.450	14.69	14.69	14.77	14.58

LTE BAND 7 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2510.0	20850	17.920	17.914	17.923	17.941	19.56	19.39	19.44	19.36
2535.0	21100	17.929	17.910	17.927	17.925	19.47	19.46	19.48	19.36
2560.0	21350	17.948	17.911	17.932	17.883	19.45	19.39	19.47	19.36

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LTE BAND 12 Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
699.7	23017	1.0942	1.0984	1.0952	1.0899	1.233	1.237	1.242	1.230
707.5	23095	1.0908	1.0983	1.0959	1.0886	1.241	1.239	1.249	1.232
715.3	23173	1.0931	1.0983	1.0968	1.0894	1.240	1.240	1.248	1.231

LTE BAND 12 Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
700.5	23025	2.6930	2.7119	2.7032	2.7030	2.997	3.052	2.994	3.011
707.5	23095	2.6938	2.7149	2.7047	2.6973	2.982	3.039	3.005	3.008
714.5	23165	2.6957	2.7160	2.6970	2.6961	2.988	3.035	2.994	3.011

LTE BAND 12 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
701.5	23035	4.4911	4.4853	4.4991	4.4841	4.974	4.897	4.949	4.898
707.5	23095	4.4915	4.4810	4.4942	4.4843	4.958	4.902	4.949	4.919
713.5	23155	4.4910	4.4814	4.4983	4.4900	4.965	4.902	4.946	4.915

LTE BAND 12 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
704.0	23060	8.9696	8.9487	8.9879	8.9680	9.771	9.750	9.813	9.780
707.5	23095	8.9997	8.9612	8.9807	8.9672	9.796	9.842	9.823	9.698
711.0	23130	8.9953	8.9469	8.9805	8.9583	9.792	9.799	9.815	9.761

LTE BAND 13 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
779.5	23205	4.4842	4.4847	4.4926	4.4892	4.957	4.915	4.958	4.898
782.0	23230	4.4839	4.4815	4.4944	4.4808	4.973	4.946	4.942	4.923
784.5	23255	4.5003	4.4973	4.5040	4.4934	5.001	4.953	4.953	4.910

LTE BAND 13 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
782.0	23230	8.9649	8.9345	8.9687	8.9291	9.741	9.766	9.803	9.739

LTE BAND 17 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
706.5	23755	4.4870	4.4860	4.5264	4.4829	4.964	4.901	4.960	4.904
710.0	23790	4.4894	4.4853	4.5029	4.4884	4.977	4.910	4.947	4.906
713.5	23825	4.4931	4.5286	4.4977	4.4870	4.978	4.815	4.953	4.893

LTE BAND 17 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
709.0	23780	8.9810	8.9374	8.9718	8.9551	9.786	9.785	9.795	9.726
710.0	23790	8.9890	8.9552	8.9725	8.9503	9.800	9.794	9.799	9.777
711.0	23800	8.9928	8.9545	8.9882	8.9696	9.784	9.762	9.828	9.778

LTE BAND 25 Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1850.7	26047	1.0951	1.1001	1.0946	1.0877	1.244	1.236	1.239	1.235
1882.5	26365	1.0944	1.0983	1.0944	1.0882	1.241	1.242	1.247	1.234
1914.3	26683	1.0961	1.1013	1.0947	1.0885	1.239	1.242	1.236	1.229

LTE BAND 25 Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1851.5	26055	2.6938	2.7145	2.7008	2.7005	2.980	3.022	2.988	3.001
1882.5	26365	2.6938	2.7091	2.7055	2.7040	2.987	3.030	2.990	3.009
1913.5	26675	2.6942	2.7142	2.7003	2.7042	2.989	3.042	2.996	3.028

LTE BAND 25 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1852.5	26065	4.4904	4.4867	4.5039	4.4848	4.970	4.905	4.945	4.909
1882.5	26365	4.4933	4.4805	4.4962	4.4842	4.981	4.933	4.956	4.898
1912.5	26665	4.4904	4.4863	4.5025	4.4876	4.975	4.899	4.952	4.921

LTE BAND 25 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1855.0	26090	8.9903	8.9643	8.9575	8.9748	9.800	9.806	9.804	9.776
1882.5	26365	8.9973	8.9583	8.9894	8.9570	9.805	9.757	9.840	9.778
1910.0	26640	8.9998	8.9541	8.9739	8.9593	9.819	9.774	9.794	9.811

LTE BAND 25 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1857.5	26115	13.468	13.473	13.484	13.435	14.64	14.59	14.80	14.66
1882.5	26365	13.470	13.468	13.478	13.447	14.69	14.65	14.75	14.75
1907.5	26615	13.458	13.469	13.473	13.445	14.65	14.66	14.82	14.55

LTE BAND 25 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1860.0	26140	17.896	17.912	17.932	17.944	19.34	19.41	19.45	19.37
1882.5	26365	17.953	17.929	17.938	17.924	19.36	19.41	19.36	19.38
1905.0	26590	17.911	17.886	17.911	17.898	19.37	19.37	19.42	19.37

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LTE BAND 26 Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
824.7	26797	1.0934	1.0992	1.0979	1.0893	1.243	1.236	1.244	1.232
836.5	26915	1.0938	1.0992	1.0976	1.0888	1.233	1.235	1.243	1.231
848.3	27033	1.0944	1.0988	1.0960	1.0892	1.235	1.238	1.245	1.231

LTE BAND 26 Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
825.5	26805	2.6927	2.7119	2.7011	2.6988	2.989	3.005	3.002	3.027
836.5	26915	2.6947	2.7125	2.7035	2.6975	2.997	2.996	3.002	3.024
847.5	27025	2.6962	2.7132	2.7017	2.7025	3.003	3.038	2.974	3.018

LTE BAND 26 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
826.5	26815	4.4915	4.4810	4.5008	4.4818	4.981	4.946	4.931	4.909
836.5	26915	4.4913	4.4872	4.4979	4.4851	4.975	4.897	4.944	4.920
846.5	27015	4.4863	4.4836	4.4969	4.4859	4.997	4.911	4.945	4.904

LTE BAND 26 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
829.0	26840	8.9817	8.9539	8.9859	8.9746	9.800	9.791	9.852	9.820
836.5	26915	8.9691	8.9329	8.9669	8.9511	9.784	9.778	9.826	9.675
844.0	26990	9.0138	8.9578	8.9966	8.9567	9.761	9.798	9.826	9.790

LTE BAND 26 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
831.5	26865	13.483	13.453	13.463	13.466	14.650	14.823	14.641	14.599
836.5	26915	13.462	13.425	13.436	13.446	14.563	14.558	14.756	14.590
841.5	26965	13.482	13.457	13.455	13.427	14.596	14.632	14.569	14.609

LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
814.7	26697	1.0920	1.0997	1.0964	1.0896	1.239	1.234	1.248	1.232
819.0	26740	1.0925	1.0997	1.0960	1.0883	1.226	1.237	1.250	1.229
823.3	26783	1.0948	1.0973	1.0959	1.0881	1.237	1.241	1.247	1.231

LTE BAND 26 for part 90S Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
815.5	26705	2.6933	2.7088	2.6989	2.7015	2.994	3.045	2.990	3.019
819.0	26740	2.6961	2.7094	2.7013	2.7029	2.977	3.038	2.990	3.008
822.5	26775	2.6976	2.7066	2.7015	2.7048	2.973	3.036	2.970	2.995

LTE BAND 26 for part 90S Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
816.5	26715	4.4919	4.4882	4.5017	4.4849	4.993	4.924	4.937	4.921
819.0	26740	4.4904	4.4868	4.4946	4.4821	4.961	4.916	4.963	4.889
821.5	26765	4.4902	4.4820	4.5023	4.4856	4.988	4.888	4.941	4.919

LTE BAND 26 for part 90S Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
819.0	26740	8.9722	8.9951	8.9448	8.9581	9.796	9.805	9.769	9.721

LTE BAND 30 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2307.5	27685	4.4977	4.4885	4.4952	4.4878	5.012	4.927	4.970	4.914
2310.0	27710	4.4935	4.4934	4.5005	4.4864	4.991	4.936	4.953	4.926
2312.5	27735	4.4936	4.4934	4.5019	4.4892	4.988	4.933	4.961	4.911

LTE BAND 30 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2310.0	27710	8.9975	8.9521	8.9873	8.9576	9.807	9.770	9.827	9.737

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LTE BAND 38 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2572.5	37775	4.4989	4.4949	4.5074	4.4756	4.986	4.931	4.941	4.877
2595.0	38000	4.4980	4.4975	4.5045	4.4792	4.975	4.922	4.974	4.914
2617.5	38225	4.5048	4.5204	4.5071	4.4753	4.963	4.984	4.985	4.876

LTE BAND 38 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2575.0	37800	8.9818	8.9724	8.9794	8.9718	9.768	9.786	9.807	9.777
2595.0	38000	8.9707	8.9781	8.9729	8.9719	9.748	9.809	9.819	9.701
2615.0	38200	8.9735	8.9753	8.9601	8.9713	9.766	9.732	9.779	9.741

LTE BAND 38 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2577.5	37825	13.475	13.484	13.470	13.468	14.58	14.61	14.66	14.77
2595.0	38000	13.475	13.487	13.481	13.465	14.53	14.56	14.70	14.48
2612.5	38175	13.464	13.490	13.482	13.469	14.56	14.60	14.63	14.60

LTE BAND 38 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2580.0	37850	17.928	17.880	17.905	17.871	19.42	19.31	19.34	19.34
2595.0	38000	17.935	17.893	17.909	17.906	19.52	19.25	19.50	19.28
2610.0	38150	17.931	17.904	17.900	17.894	19.52	19.23	19.42	19.25

LTE BAND 41 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2498.5	39675	4.4953	4.4942	4.5127	4.4728	4.972	4.933	4.958	4.891
2593.0	40620	4.4955	4.4911	4.5070	4.4756	4.976	4.924	4.975	4.892
2687.5	41565	4.4947	4.4942	4.5145	4.4729	4.955	4.941	4.954	4.894

LTE BAND 41 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2501.0	39700	8.9768	8.9613	8.9815	8.9736	9.705	9.753	9.788	9.731
2593.0	40620	8.9742	8.9622	8.9754	8.9709	9.721	9.768	9.750	9.706
2685.0	41540	8.9661	8.9635	8.9831	8.9707	9.762	9.734	9.805	9.789

LTE BAND 41 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2503.5	39725	13.483	13.476	13.494	13.466	14.64	14.57	14.66	14.70
2593.0	40620	13.489	13.468	13.496	13.476	14.67	14.60	14.67	14.72
2682.5	41515	13.463	13.453	13.471	13.461	14.60	14.68	14.63	14.47

LTE BAND 41 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2506.0	39750	17.920	17.880	17.880	17.882	19.46	19.33	19.46	19.23
2593.0	40620	17.932	17.889	0.000	17.900	19.53	19.28	19.33	19.29
2680.0	41490	17.888	17.861	17.868	17.883	19.38	19.30	19.35	19.13

LTE BAND 66 Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1710.7	131979	1.0959	1.0978	1.0964	1.0893	1.241	1.241	1.246	1.237
1745.0	132322	1.0950	1.1002	1.0962	1.0893	1.235	1.244	1.245	1.232
1779.3	132665	1.0920	1.1009	1.0954	1.0896	1.236	1.235	1.247	1.230

LTE BAND 66 Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1711.5	131987	2.6965	2.7152	2.7032	2.6988	2.985	3.046	3.012	3.024
1745.0	132322	2.6921	2.7068	2.6999	2.7027	2.979	3.013	2.982	3.002
1778.5	132657	2.6957	2.7158	2.7038	2.7034	2.977	3.032	3.006	3.011

LTE BAND 66 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1712.5	131997	4.4911	4.4868	4.4982	4.4864	4.978	4.921	4.937	4.894
1745.0	132322	4.4908	4.4856	4.4989	4.4885	4.977	4.911	4.969	4.914
1777.5	132647	4.4891	4.4877	4.5011	4.4877	4.965	4.902	4.963	4.912

LTE BAND 66 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1715.0	132022	8.9927	8.9541	8.9843	8.9577	9.806	9.797	9.777	9.744
1745.0	132322	8.9825	8.9555	8.9822	8.9684	9.790	9.811	9.790	9.772
1775.0	132622	9.0112	8.9574	8.9708	8.9550	9.832	9.754	9.836	9.797

LTE BAND 66 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1717.5	132047	13.466	13.474	13.472	13.457	14.65	14.64	14.69	14.59
1745.0	132322	13.468	13.467	13.466	13.446	14.70	14.61	14.69	14.62
1772.5	132597	13.459	13.457	13.463	13.444	14.63	14.64	14.70	14.54

LTE BAND 66 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1720.0	132072	17.936	17.929	17.936	17.924	19.50	19.35	19.56	19.25
1745.0	132322	17.920	17.922	17.923	17.916	19.49	19.41	19.41	19.44
1770.0	132572	17.932	17.929	17.947	17.925	19.51	19.38	19.46	19.37

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LTE BAND 71 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
665.5	133147	4.4922	4.4838	4.4933	4.4864	4.990	4.936	4.946	4.902
680.5	133297	4.4879	4.4870	4.5000	4.4908	4.963	4.923	4.968	4.903
695.5	133447	4.4850	4.4843	4.4951	4.4900	4.983	4.907	4.962	4.919

LTE BAND 71 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
688.0	133172	9.0063	8.9652	8.9860	8.9643	9.853	9.817	9.809	9.701
680.5	133297	8.9867	8.9501	8.9758	8.9496	9.845	9.805	9.815	9.818
693.0	133422	8.9816	8.9524	8.9868	8.9557	9.782	9.777	9.834	9.774

LTE BAND 71 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
670.5	133197	13.494	13.495	13.463	13.477	14.66	14.55	14.70	14.61
680.5	133297	13.465	13.445	13.457	13.442	14.73	14.65	14.57	14.67
690.5	133397	13.463	13.461	13.467	13.455	14.77	14.60	14.75	14.68

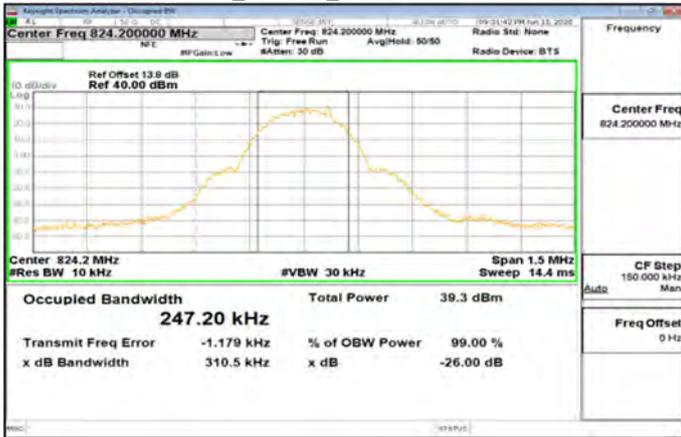
LTE BAND 71 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
673.0	133222	17.915	17.898	17.921	17.909	19.54	19.34	19.46	19.32
680.5	133297	17.881	17.871	17.880	17.879	19.50	19.33	19.34	19.36
688.0	133372	17.927	17.914	17.903	17.896	19.40	19.33	19.38	19.28

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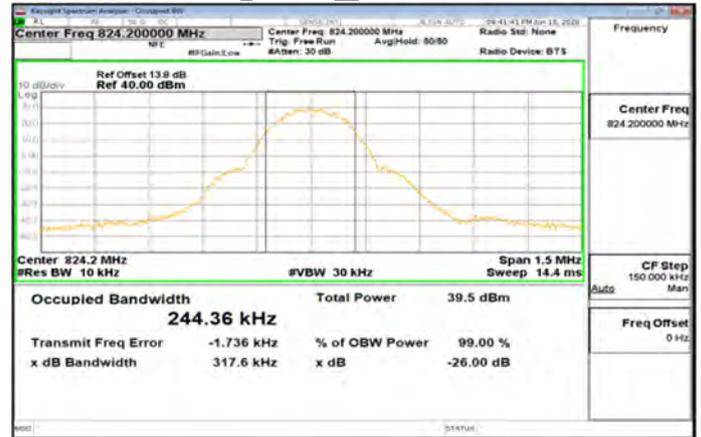
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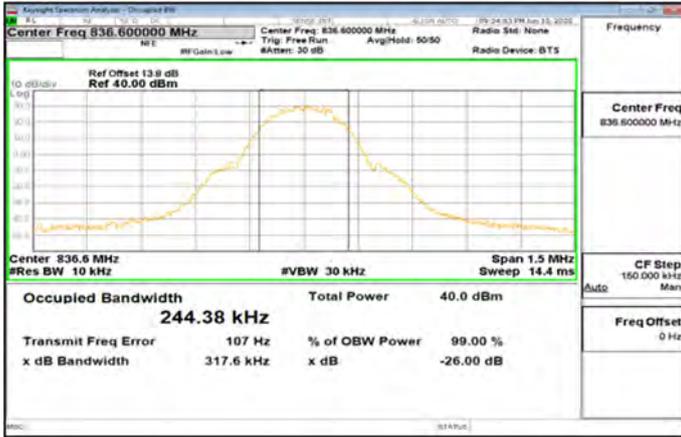
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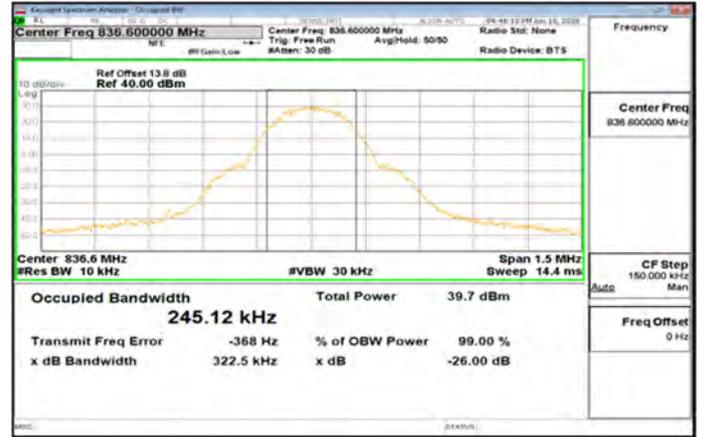
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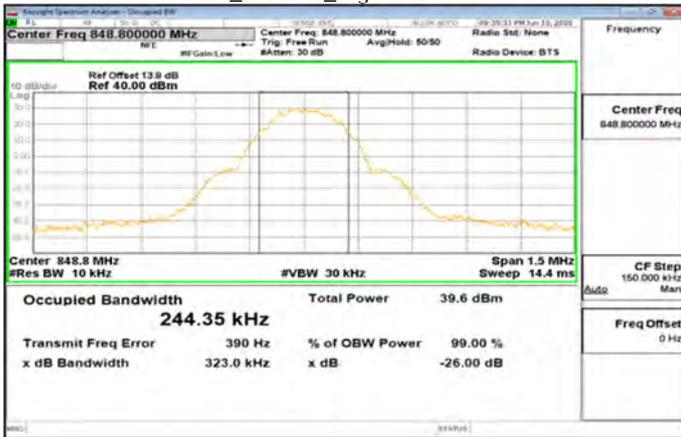
GSM_850MHz_MidCH190-836.6



GPRS_850MHz_MidCH190-836.6



GSM_850MHz_HighCH251-848.8



GPRS_850MHz_HighCH251-848.8

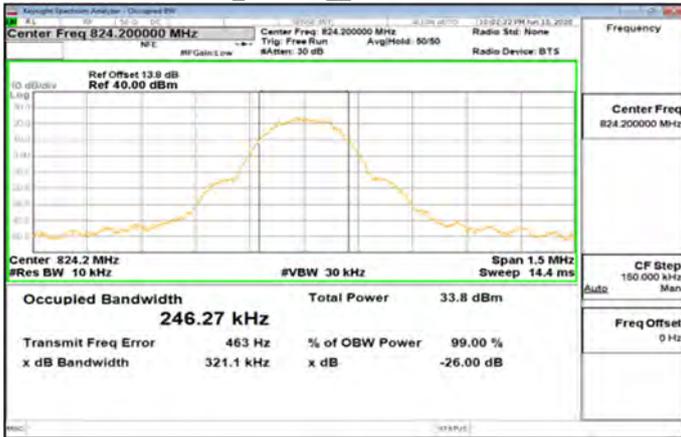


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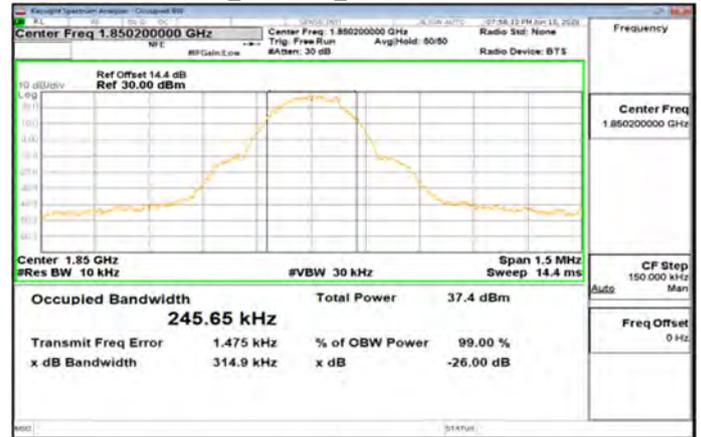
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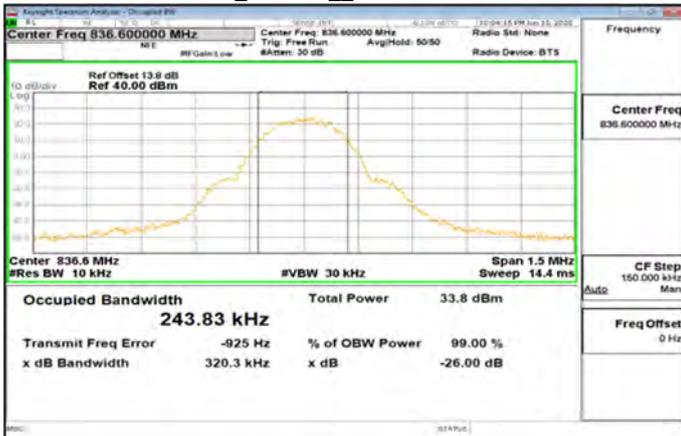
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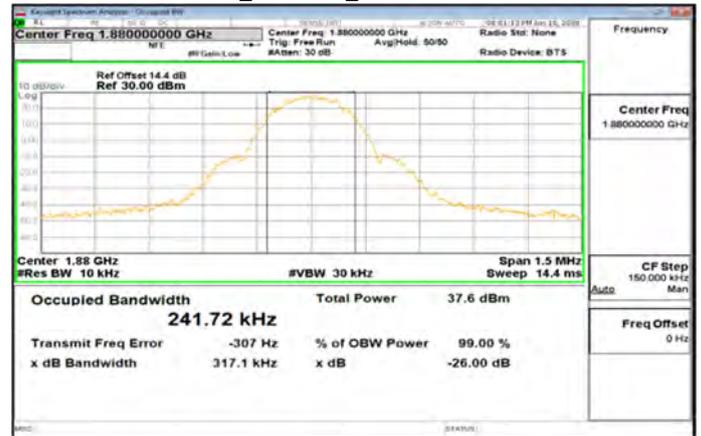
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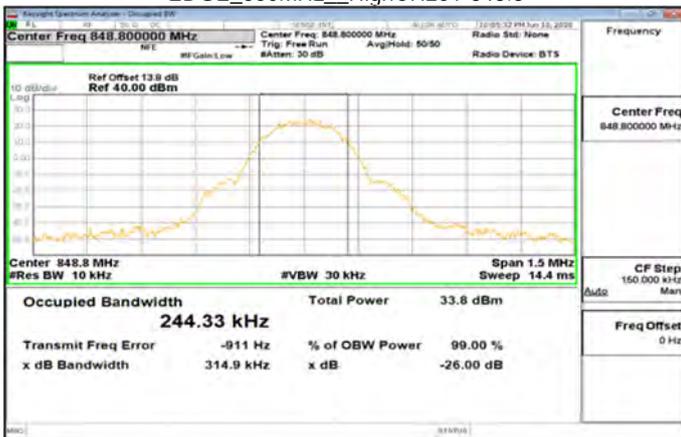
EDGE_850MHz_MidCH190-836.6



GSM_1900MHz_MidCH661-1880



EDGE_850MHz_HighCH251-848.8



GSM_1900MHz_HighCH810-1909.8

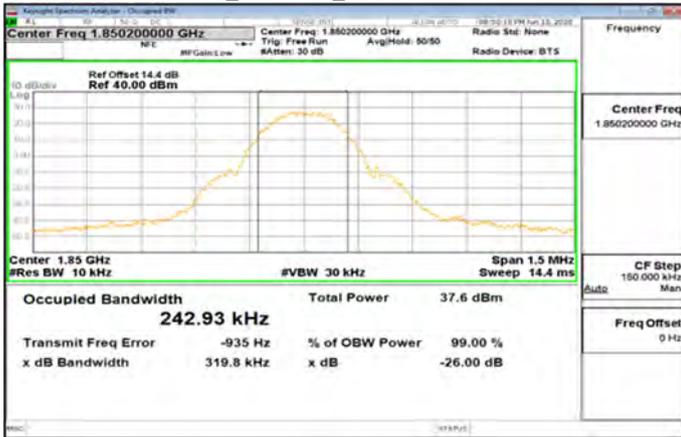


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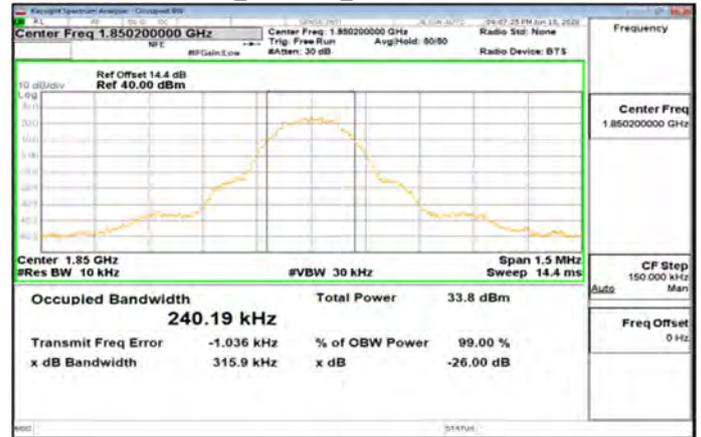
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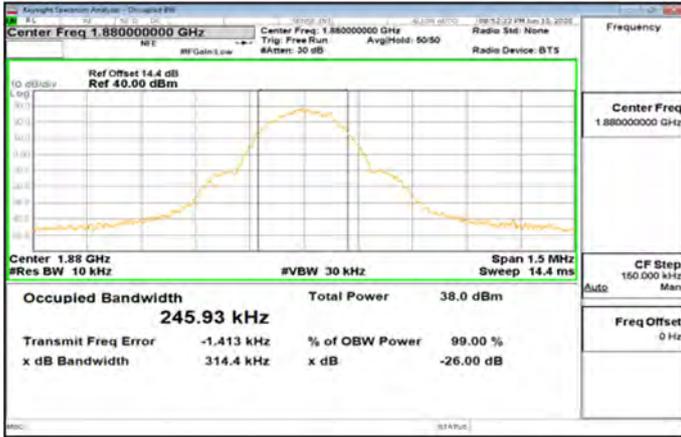
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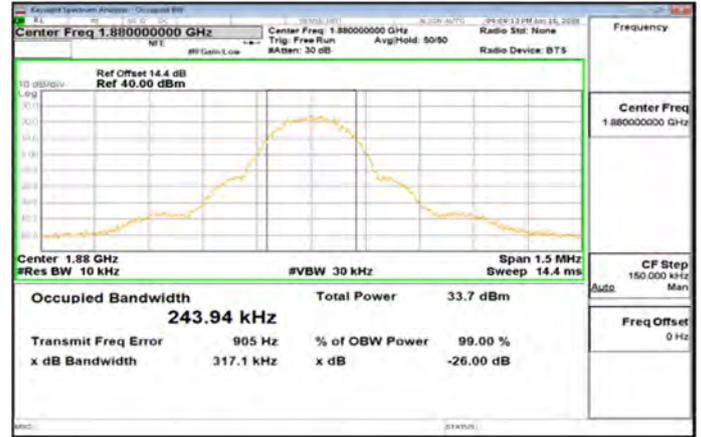
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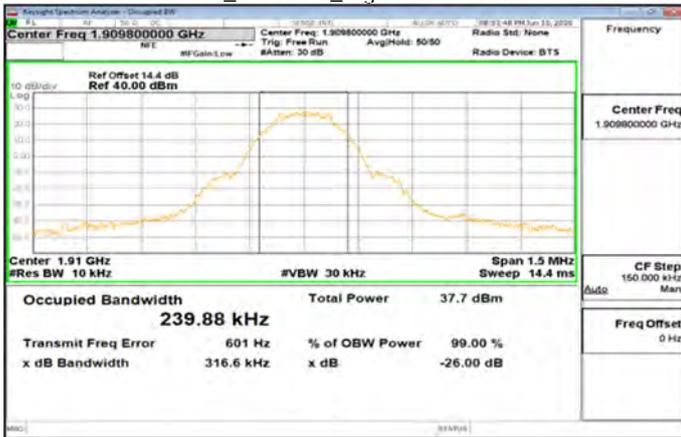
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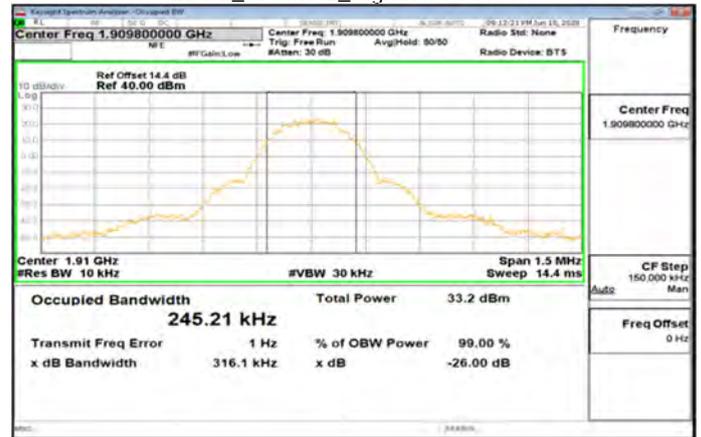
EDGE_1900MHz_MidCH661-1880



GPRS_1900MHz_HighCH810-1909.8



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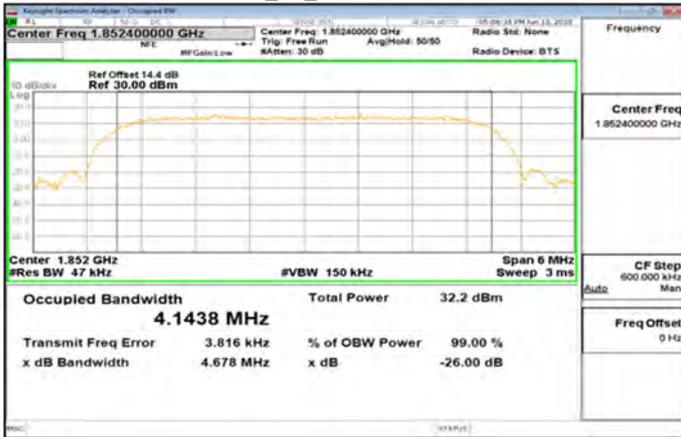


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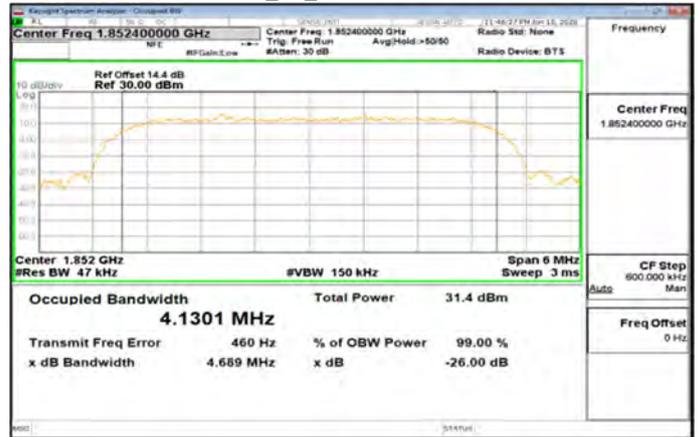
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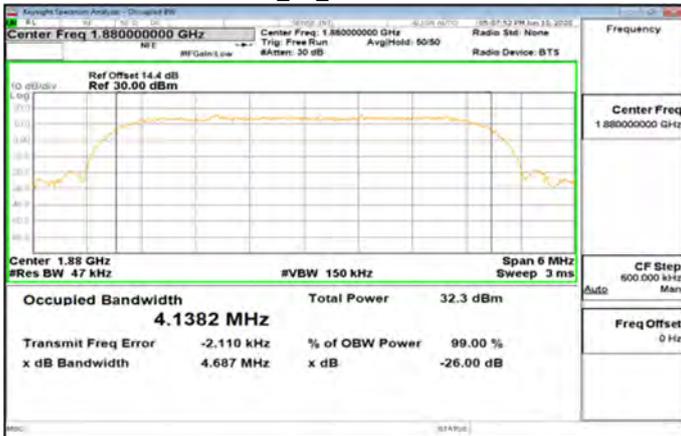
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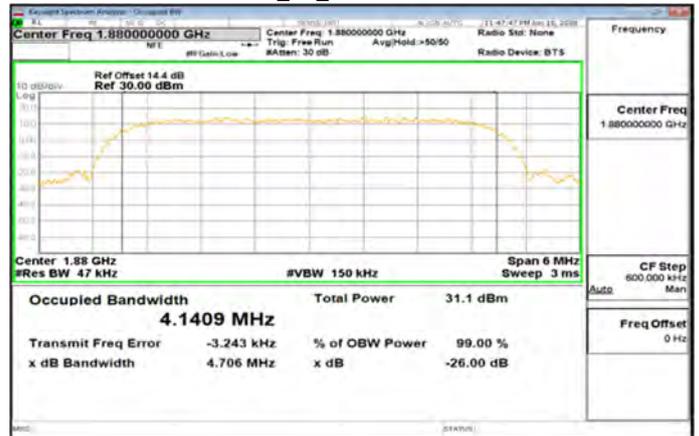
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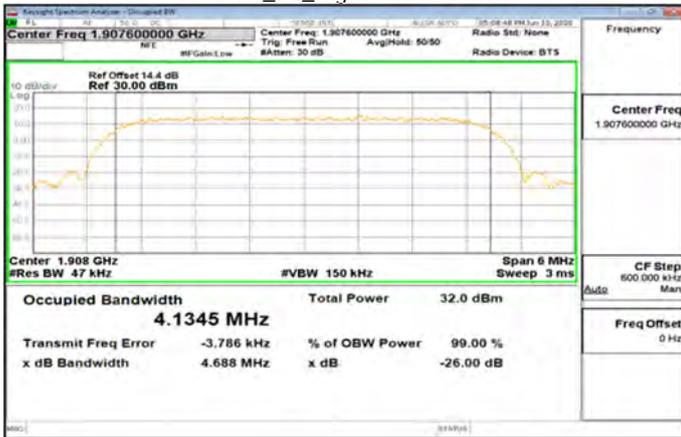
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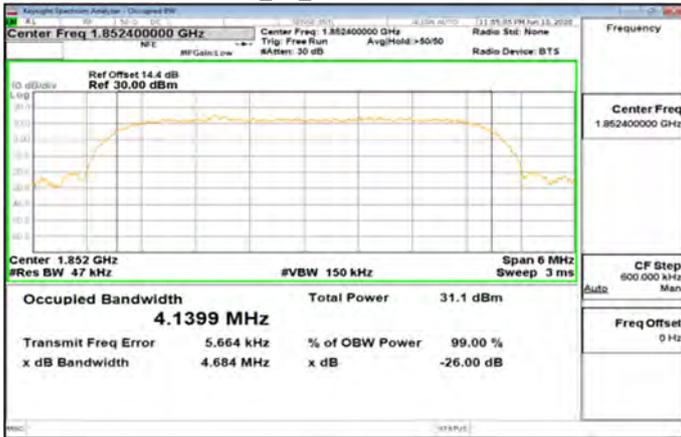


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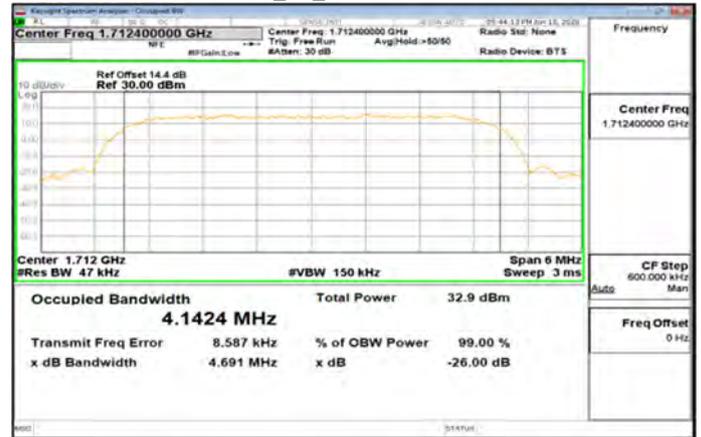
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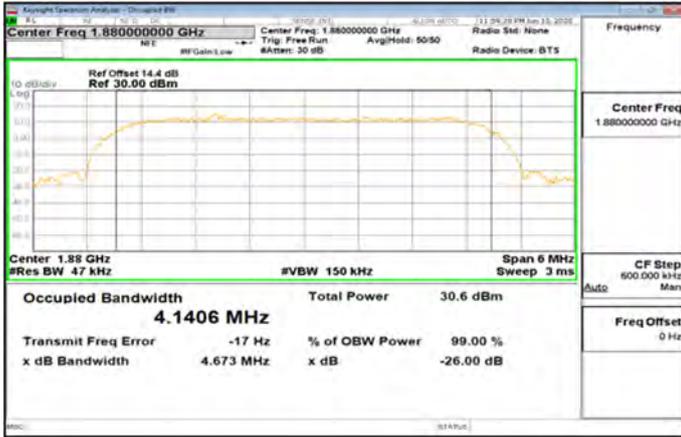
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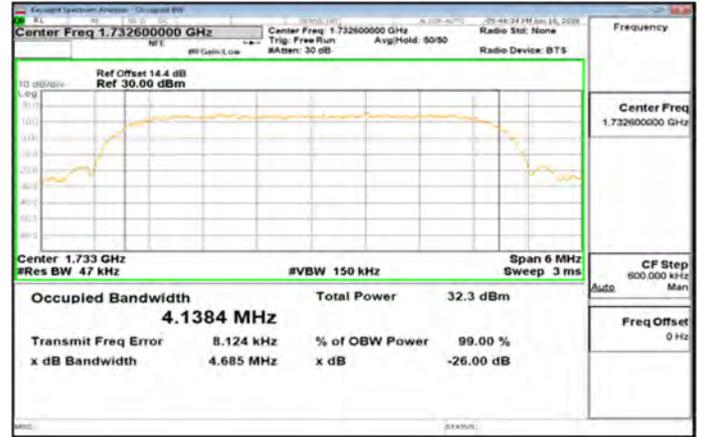
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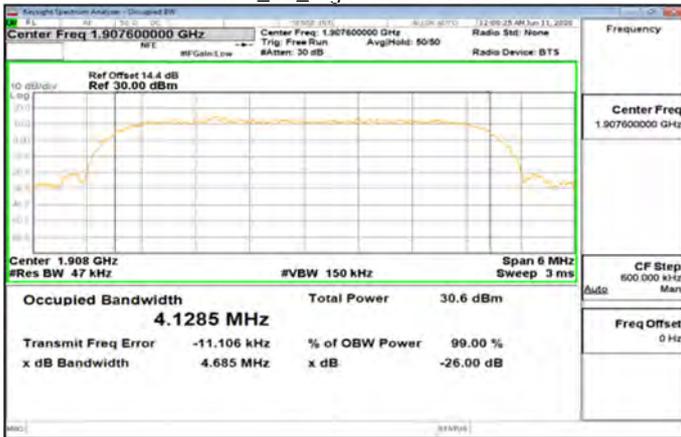
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HSUPA_B2_HighCH9538-1907.6



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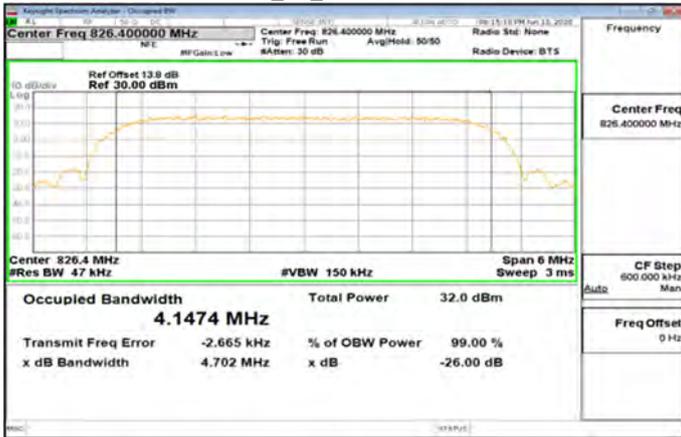


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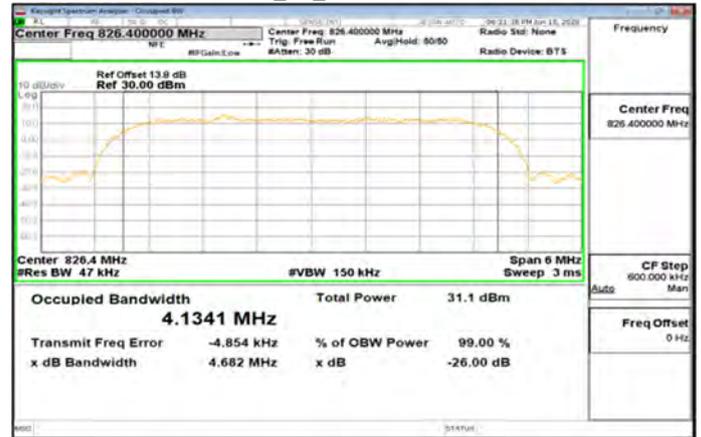
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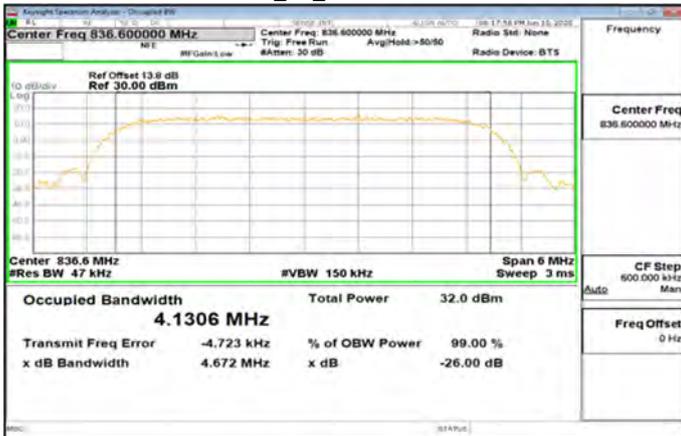
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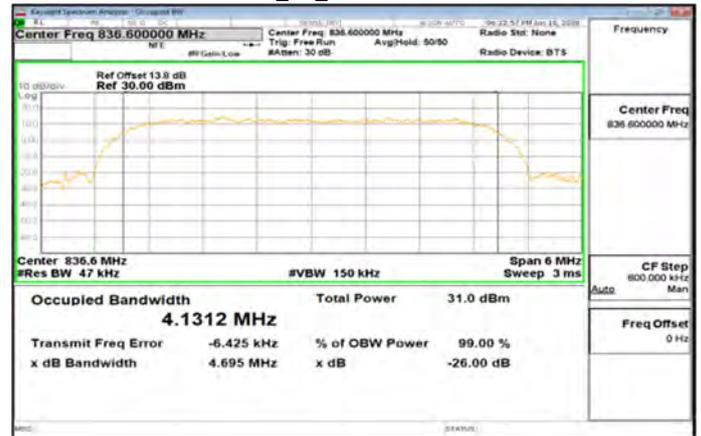
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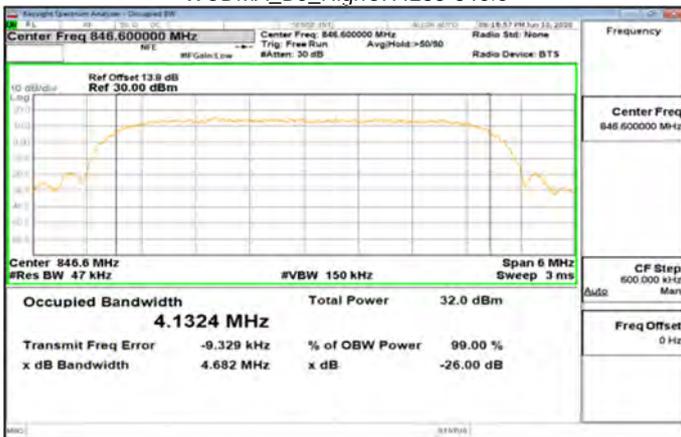
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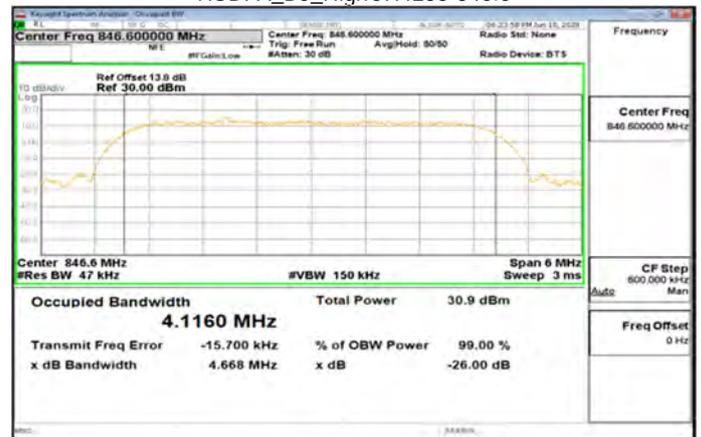
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WCDMA_B5_HighCH4233-846.6



HSDPA_B5_HighCH4233-846.6

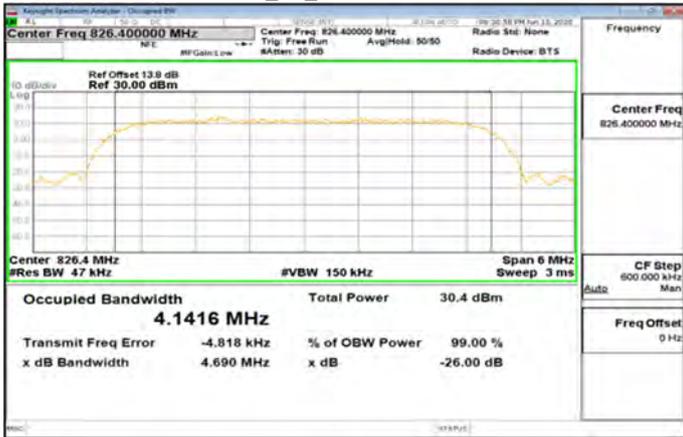


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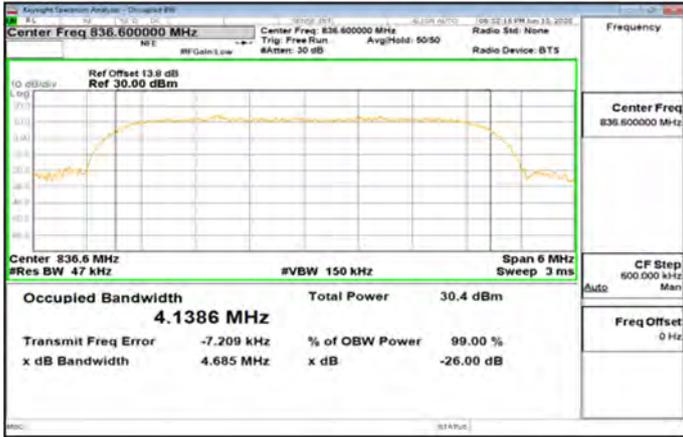
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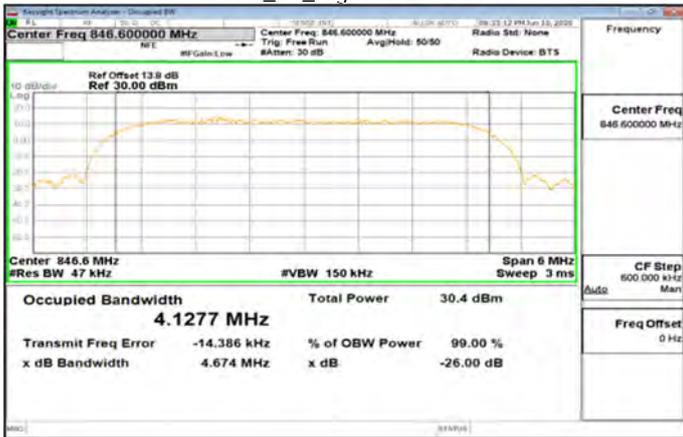
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HSUPA_B5_MidCH4183-836.6



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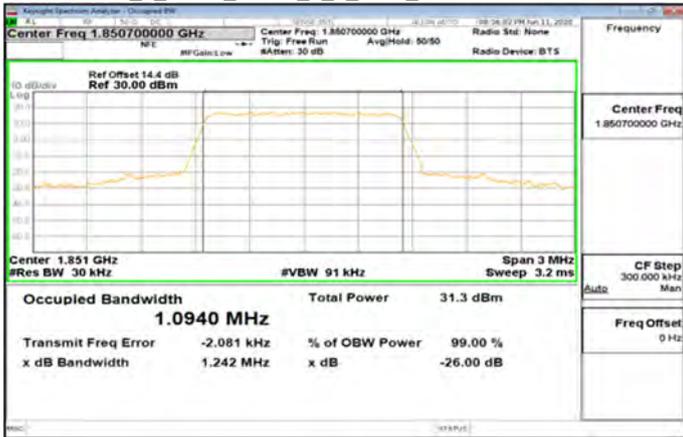


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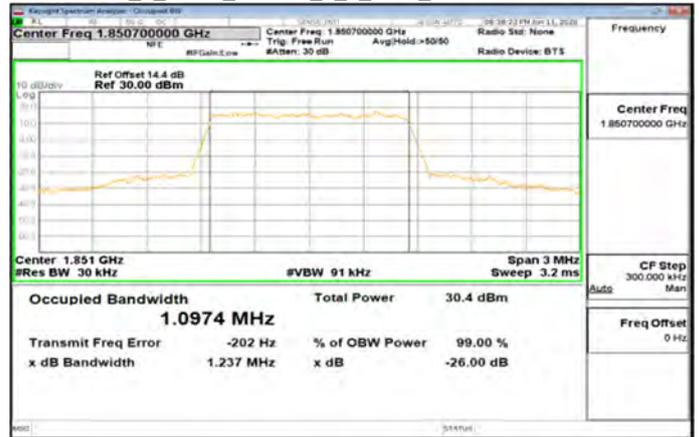
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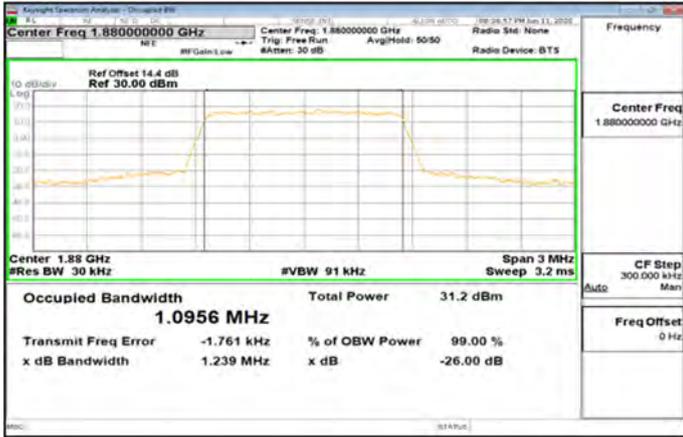
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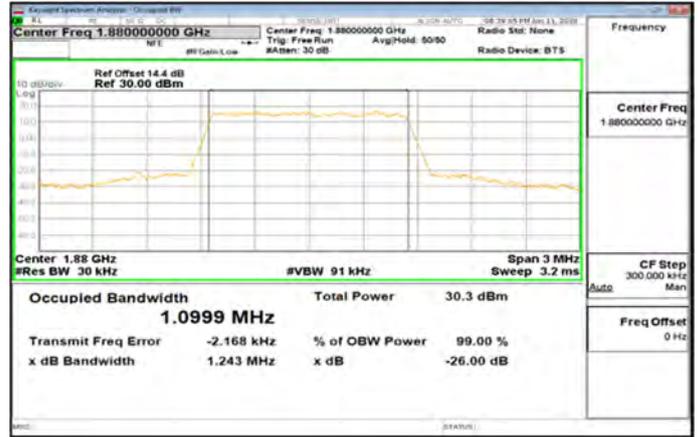
Band2_1_4MHz_16QAM_6_0_Main_LowCH18607-1850.7



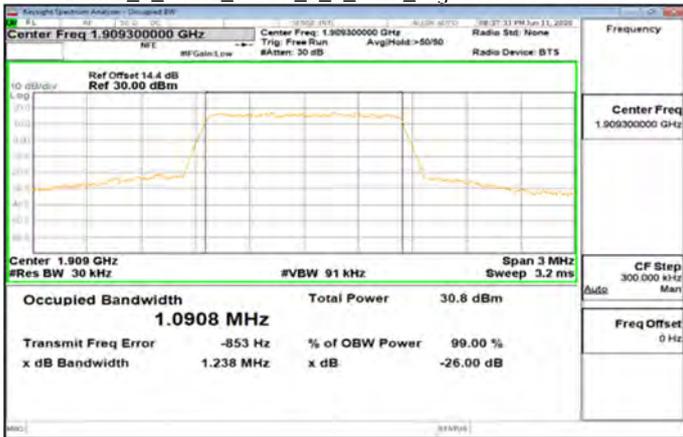
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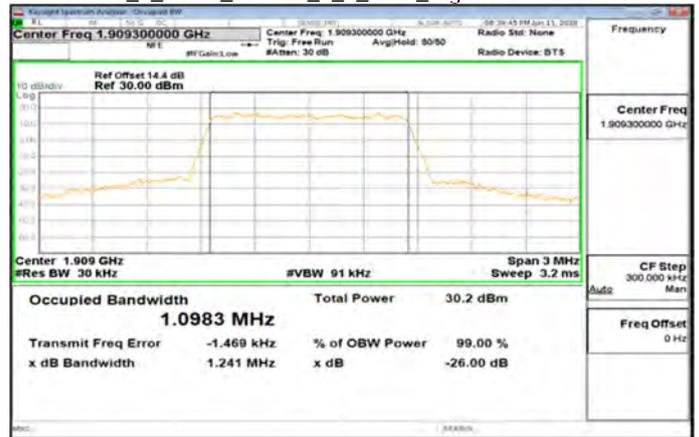
Band2_1_4MHz_16QAM_6_0_Main_MidCH18900-1880



Band2_1_4MHz_QPSK_6_0_Main_HighCH19193-1909.3



Band2_1_4MHz_16QAM_6_0_Main_HighCH19193-1909.3

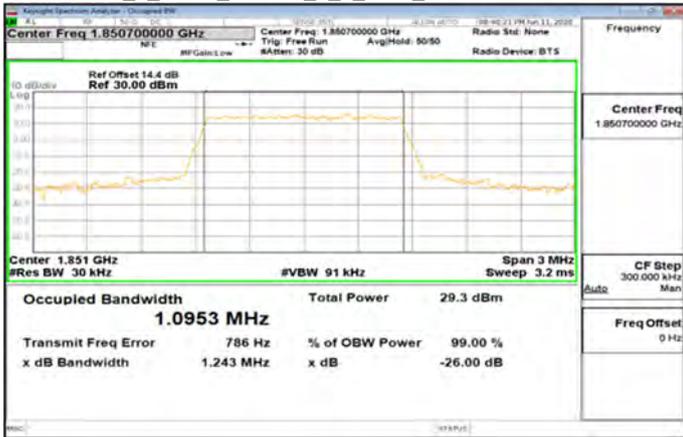


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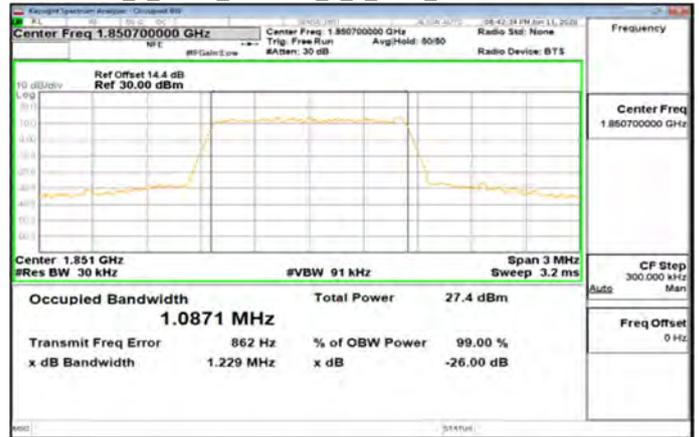
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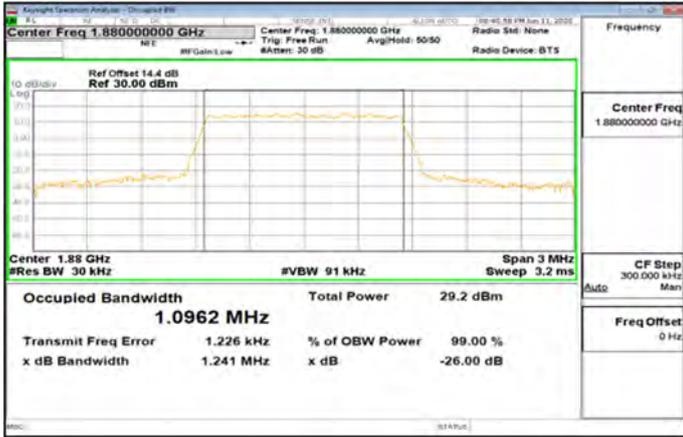
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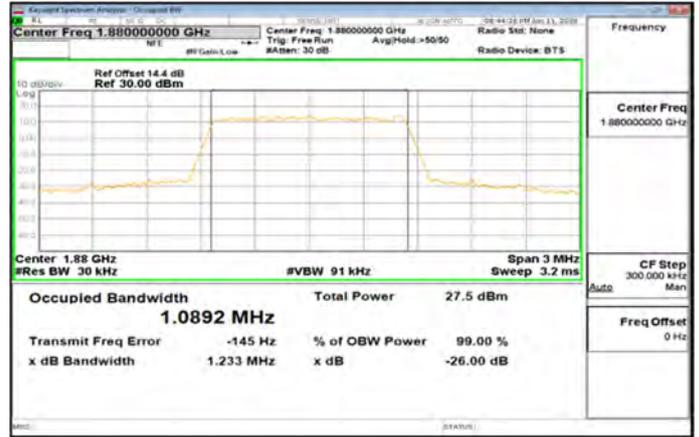
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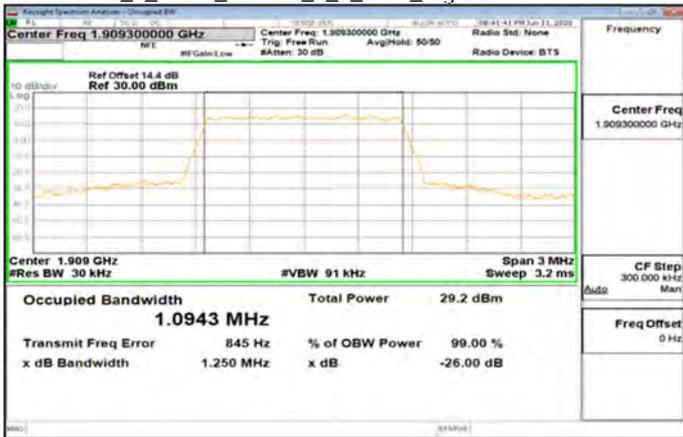
Band2_1_4MHz_64QAM_6_0_Main_MidCH18900-1880



Band2_1_4MHz_256QAM_6_0_Main_MidCH18900-1880



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Band2_1_4MHz_256QAM_6_0_Main_HighCH19193-1909.3

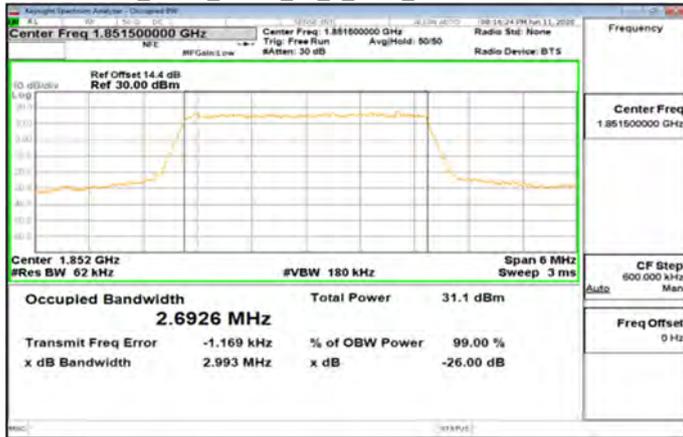


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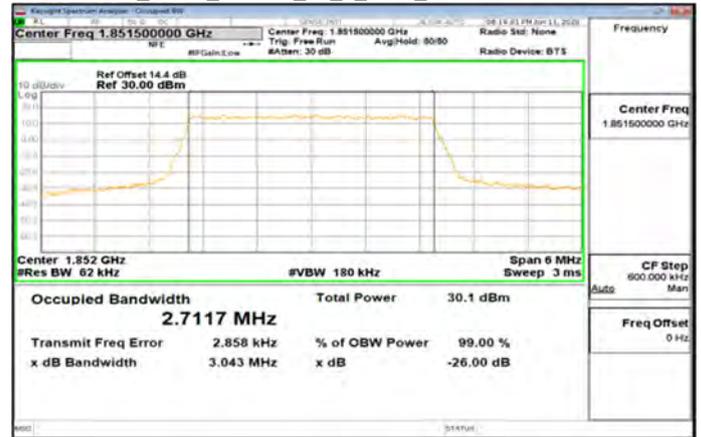
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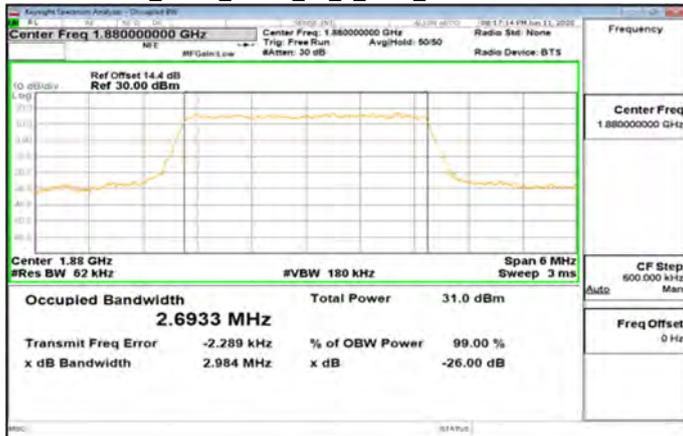
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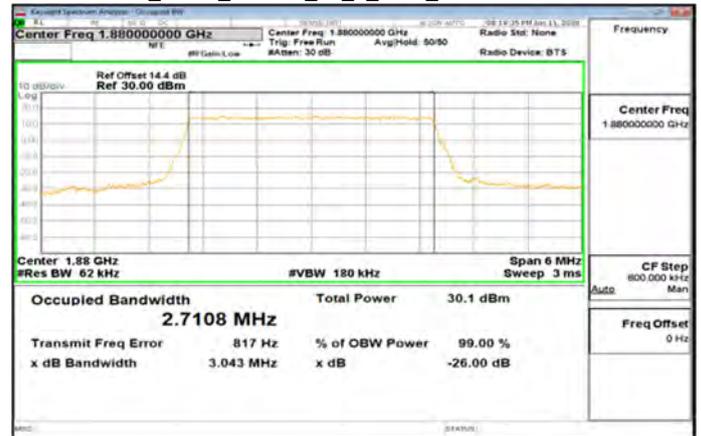
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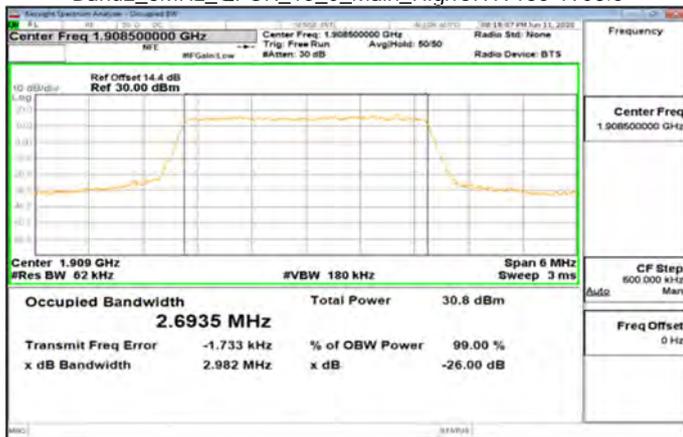
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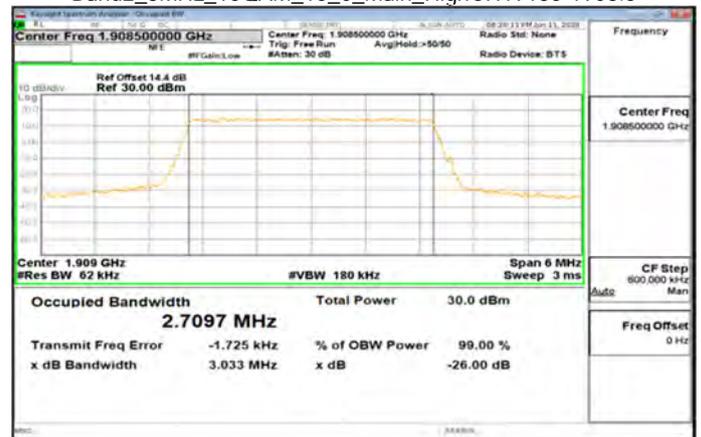
Band2_3MHz_16QAM_15_0_Main_MidCH18900-1880



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Band2_3MHz_16QAM_15_0_Main_HighCH19185-1908.5

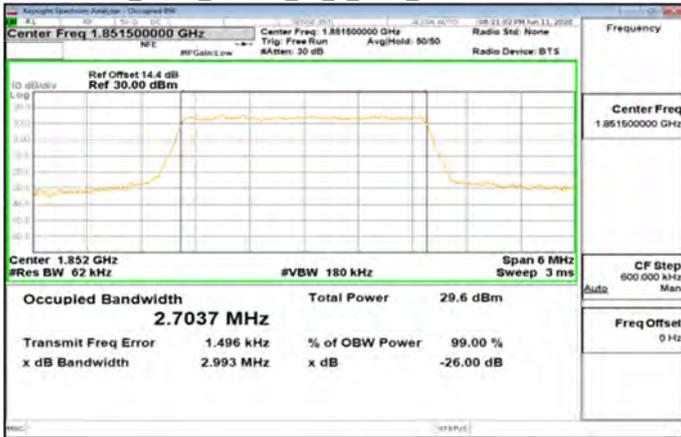


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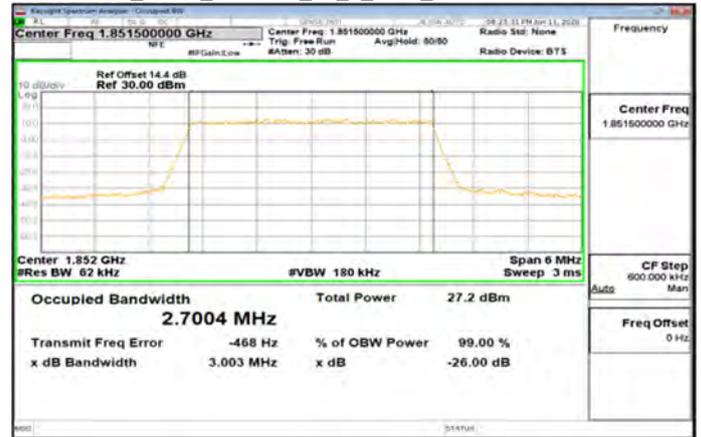
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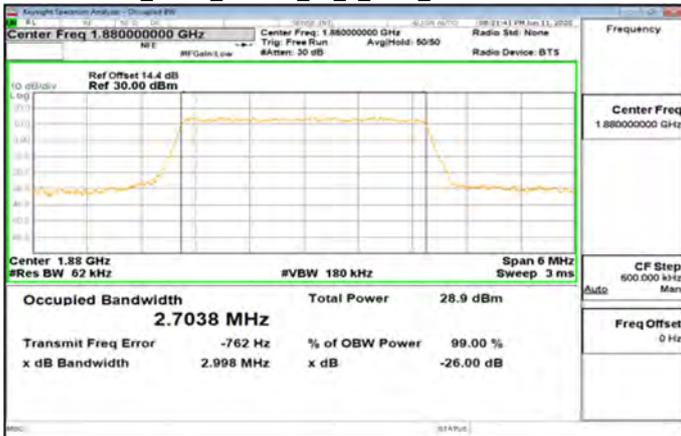
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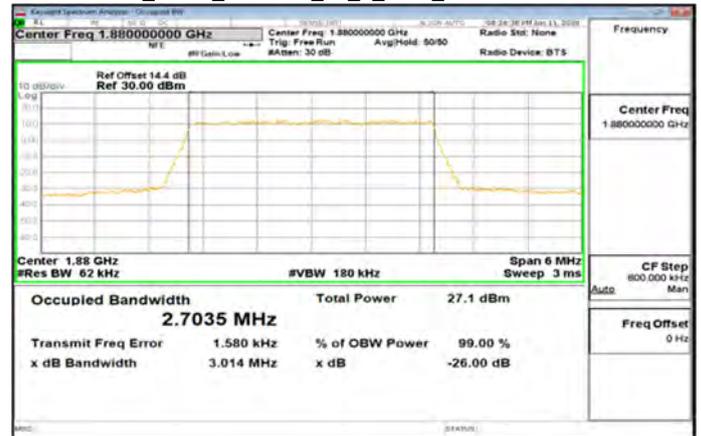
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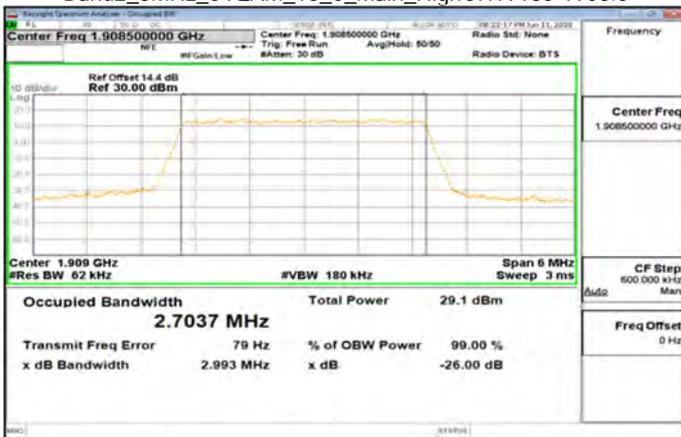
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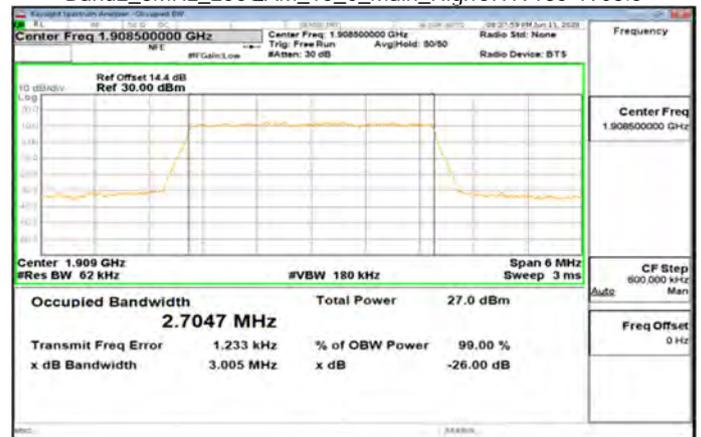
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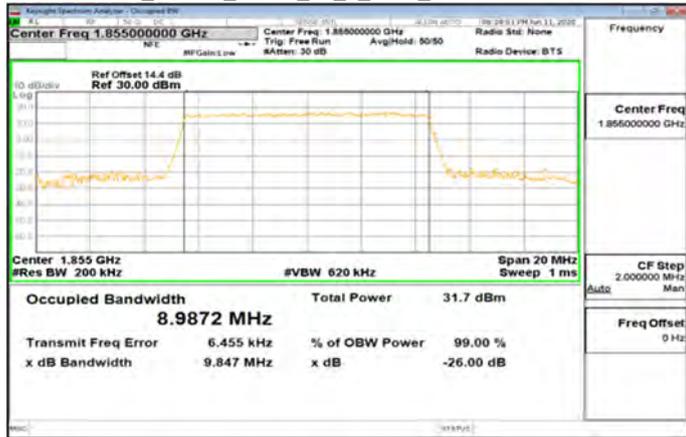


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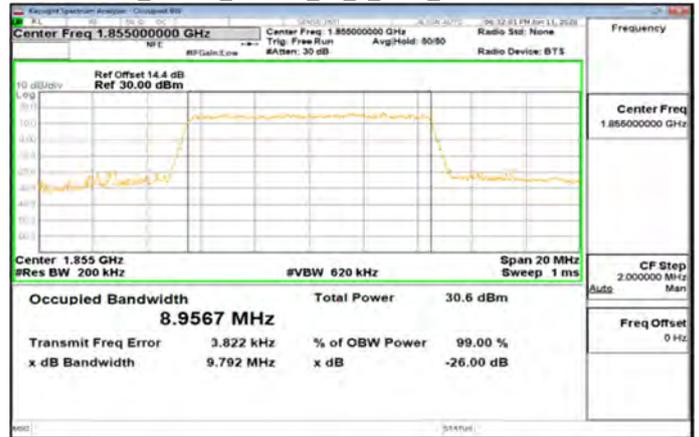
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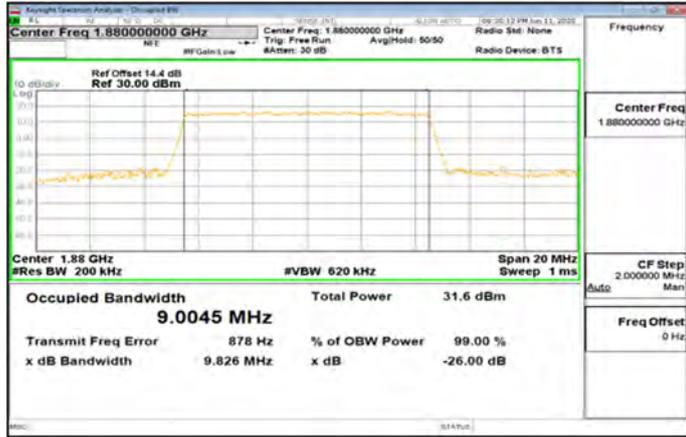
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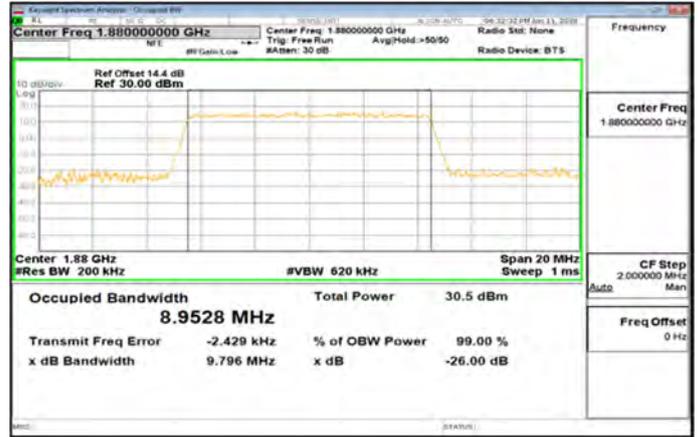
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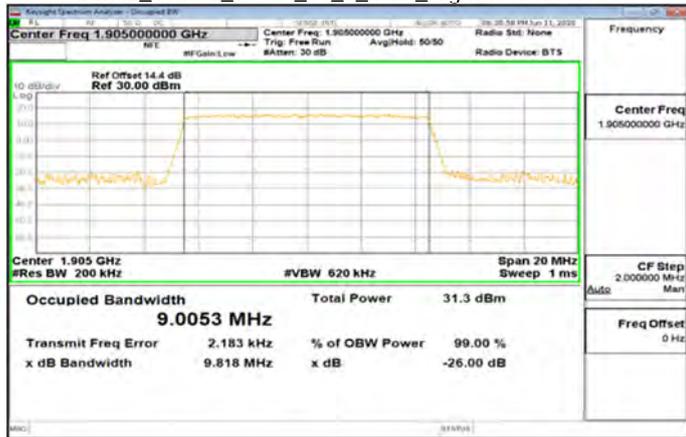
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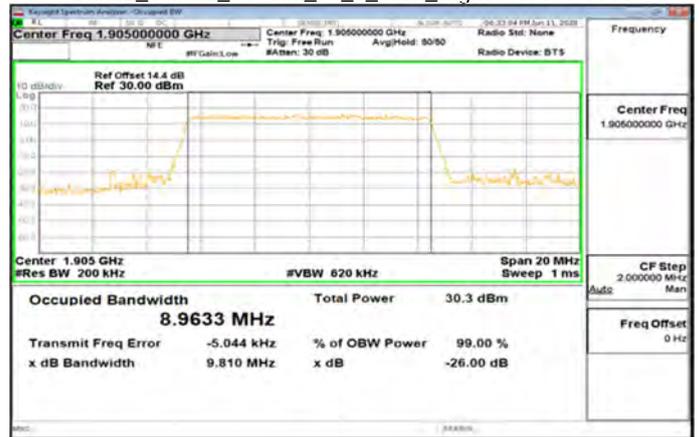
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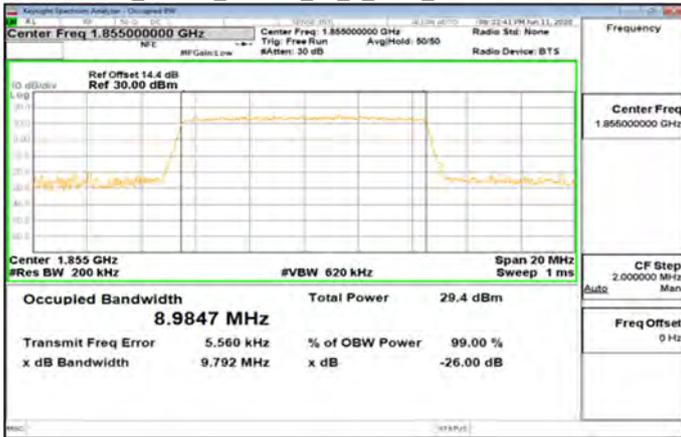


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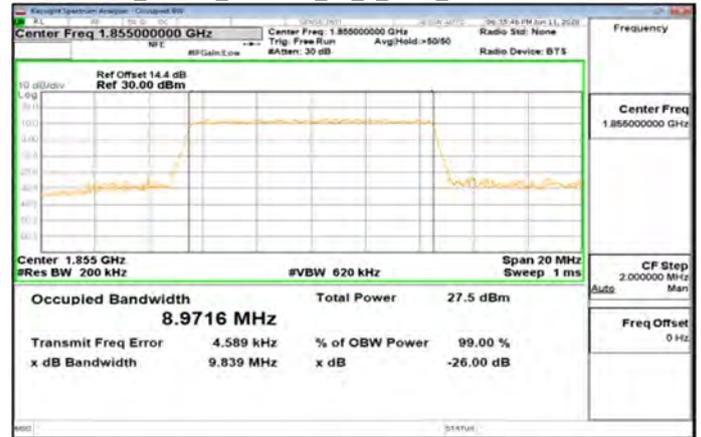
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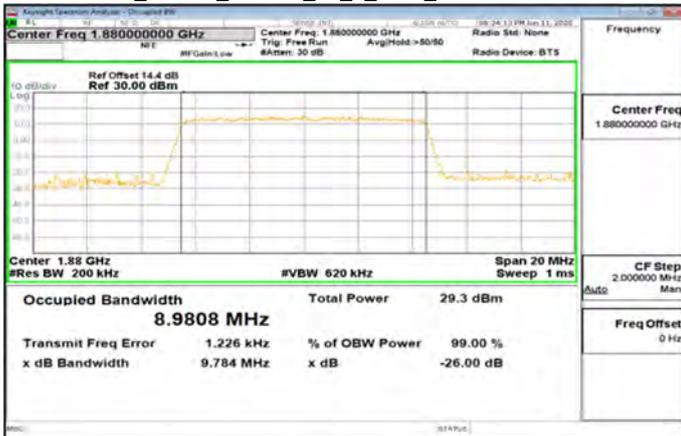
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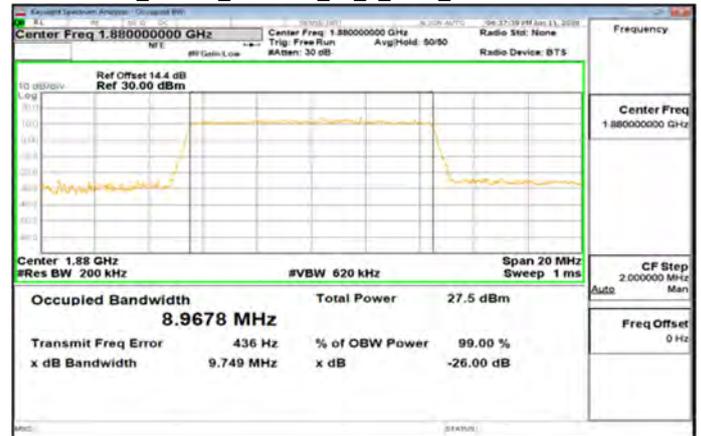
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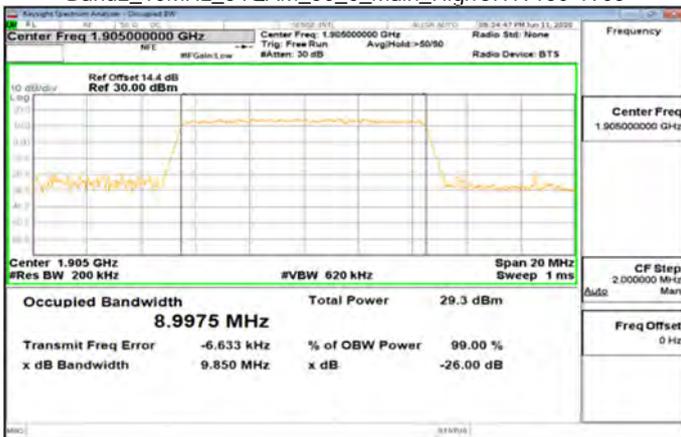
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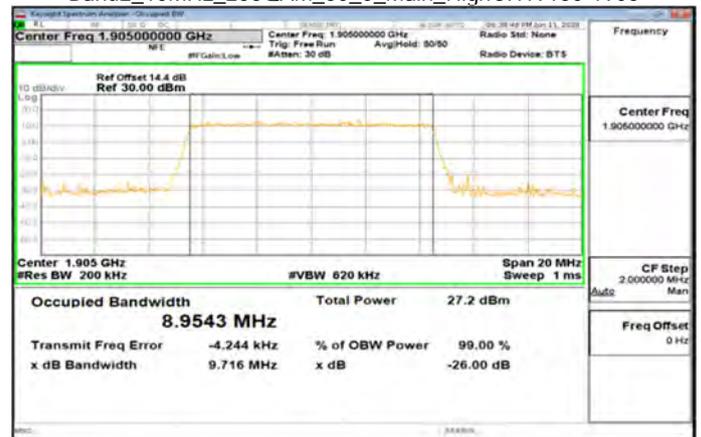
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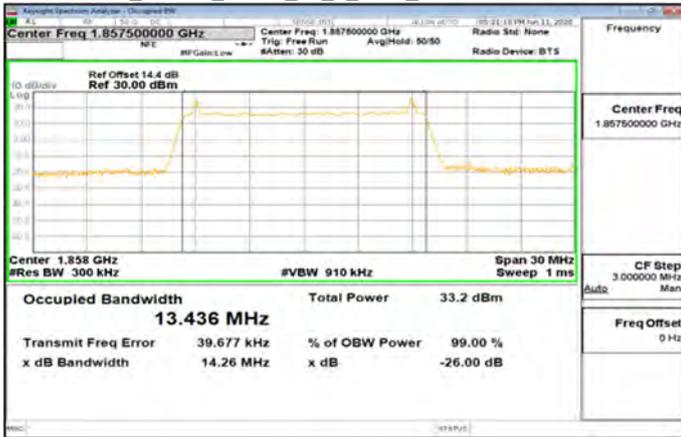


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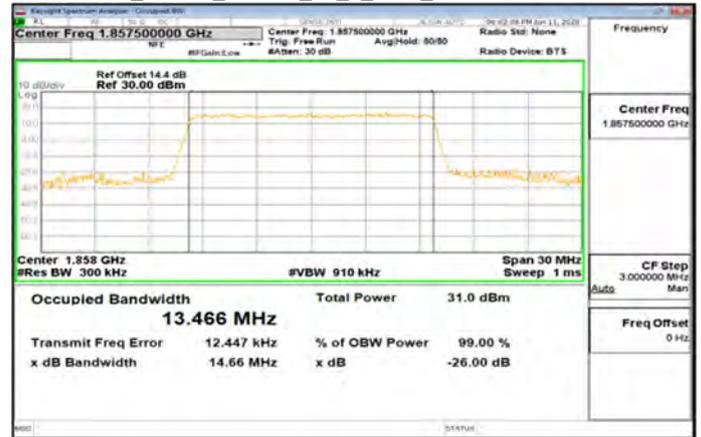
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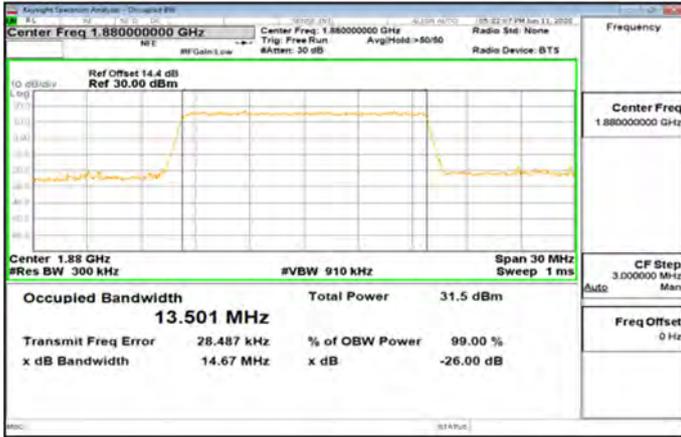
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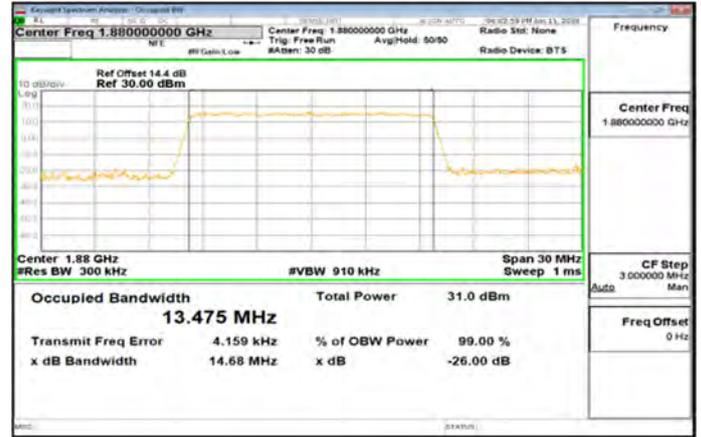
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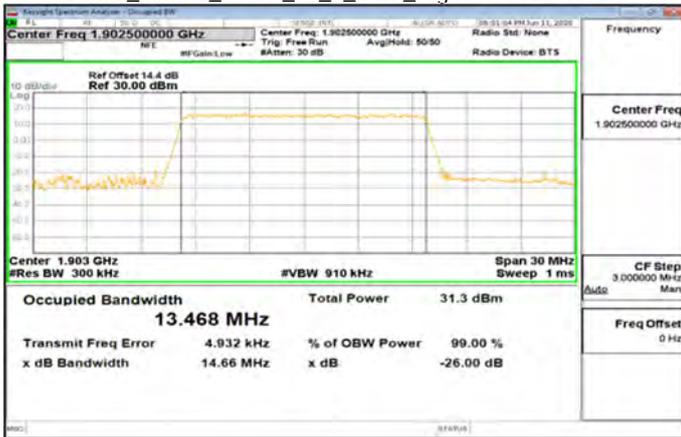
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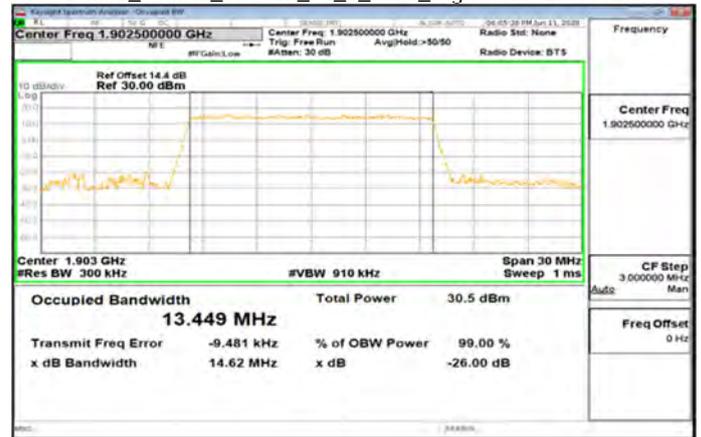
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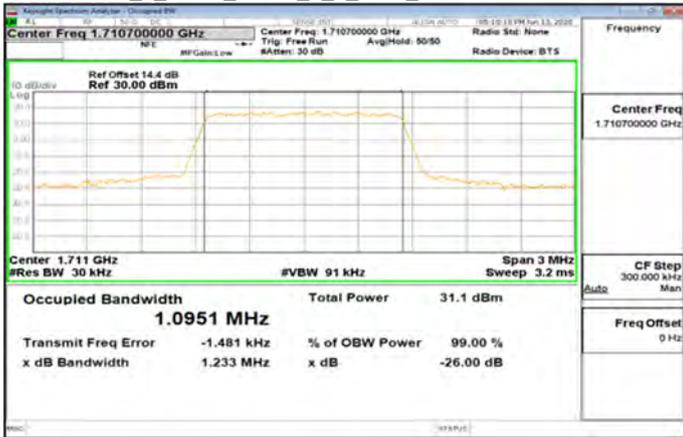


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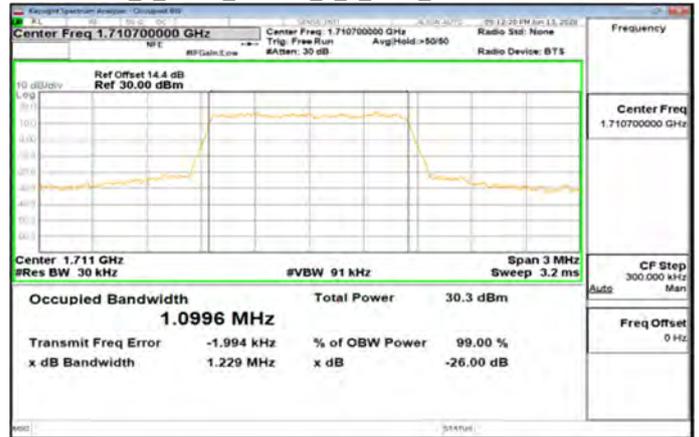
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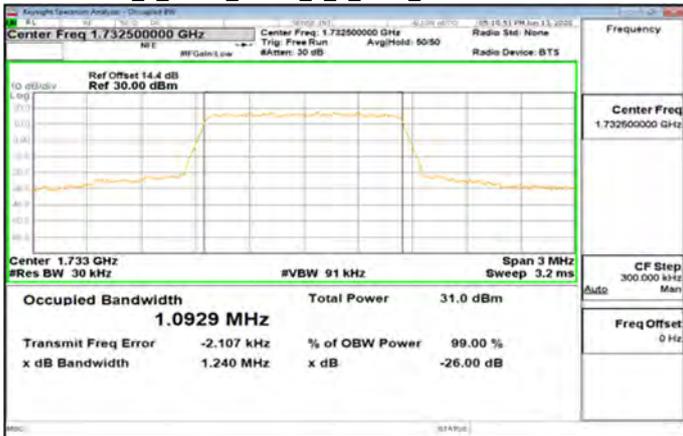
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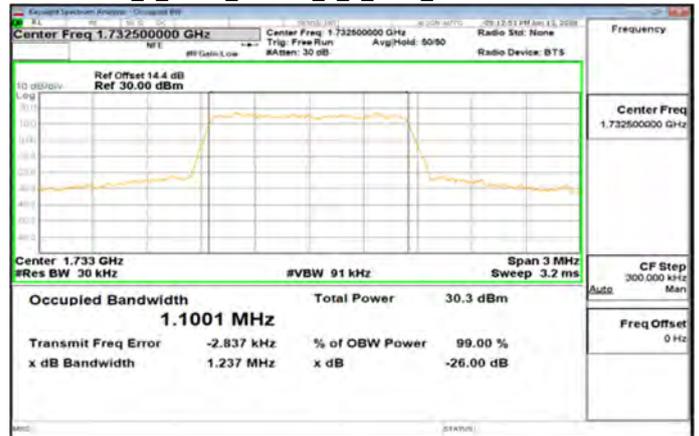
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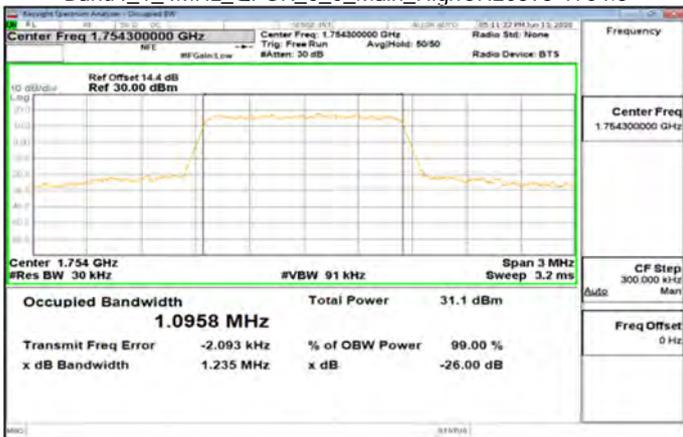
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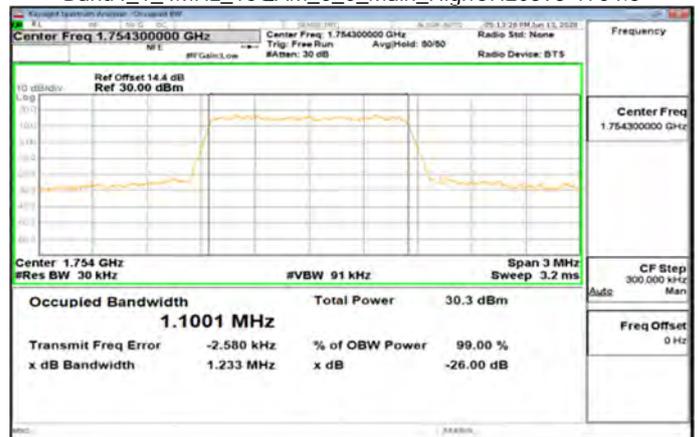
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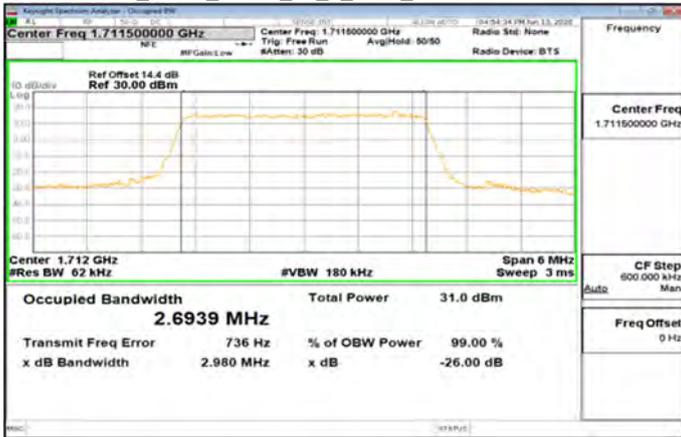


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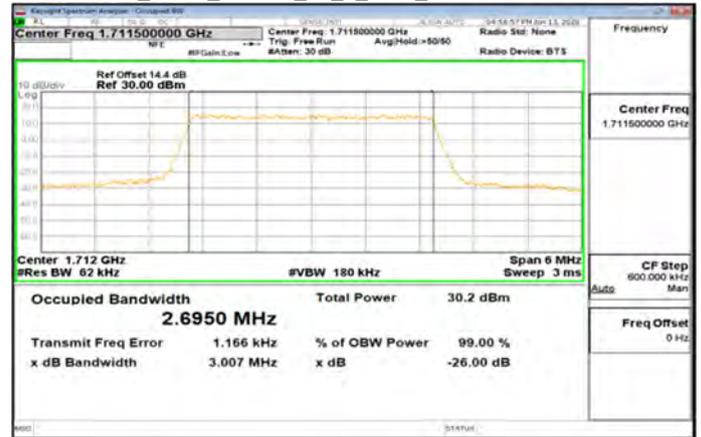
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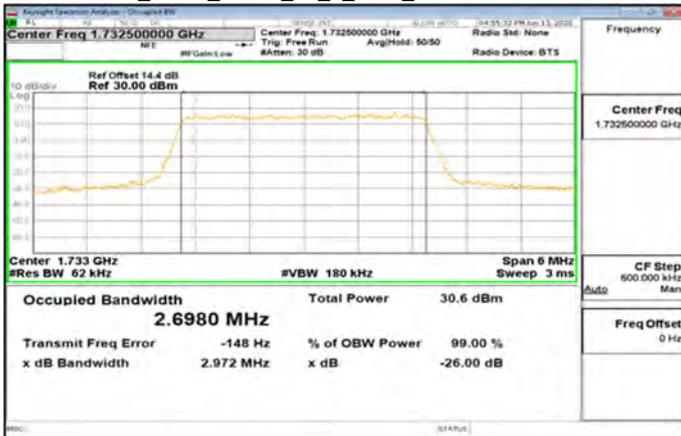
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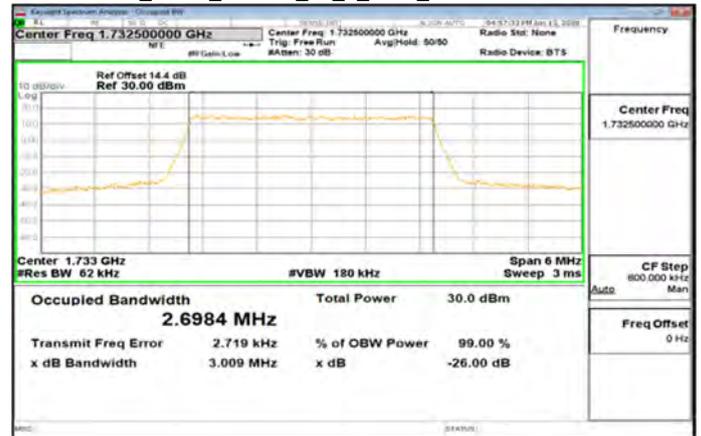
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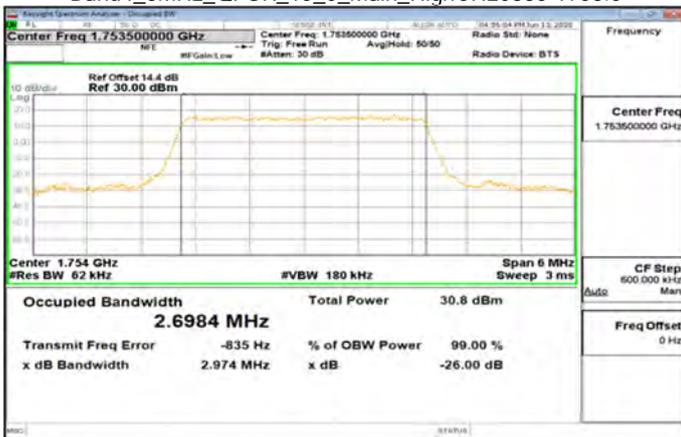
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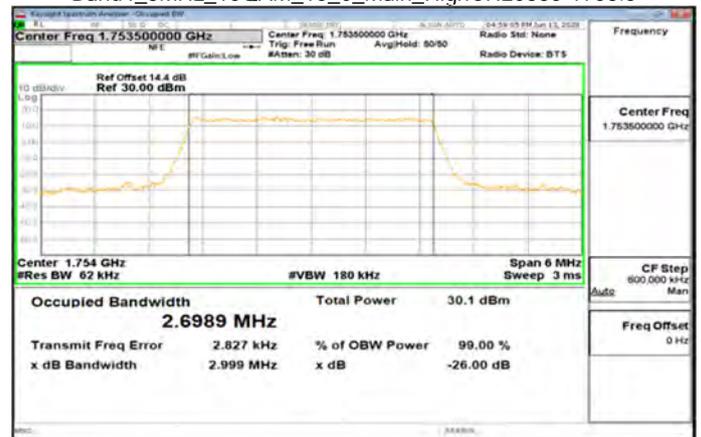
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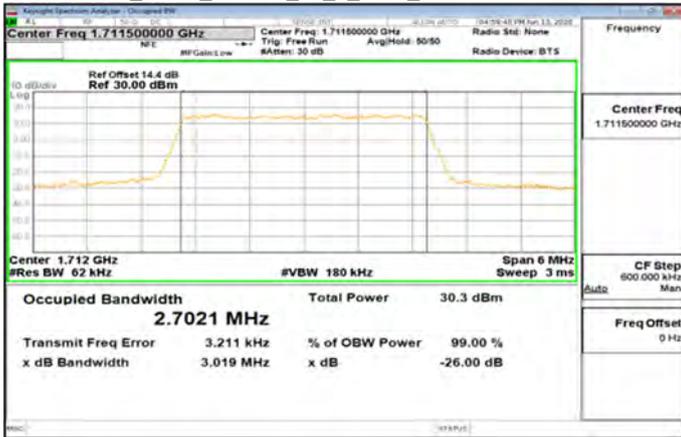


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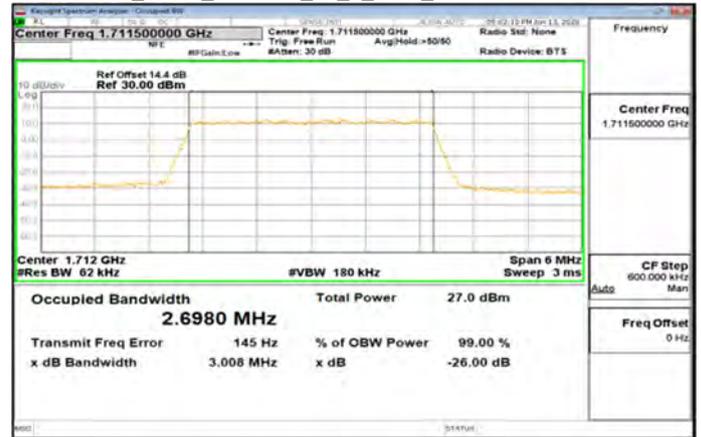
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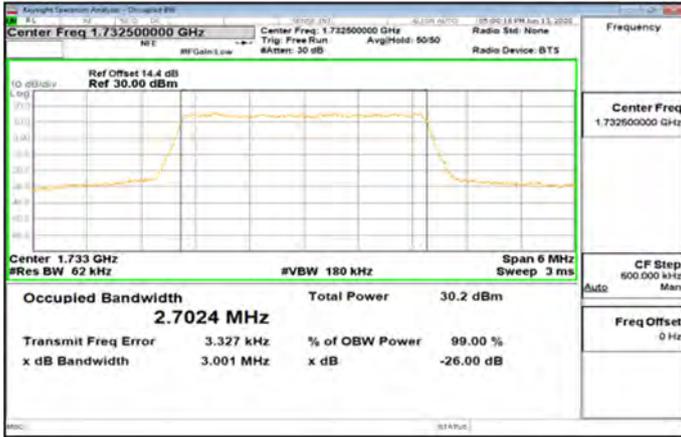
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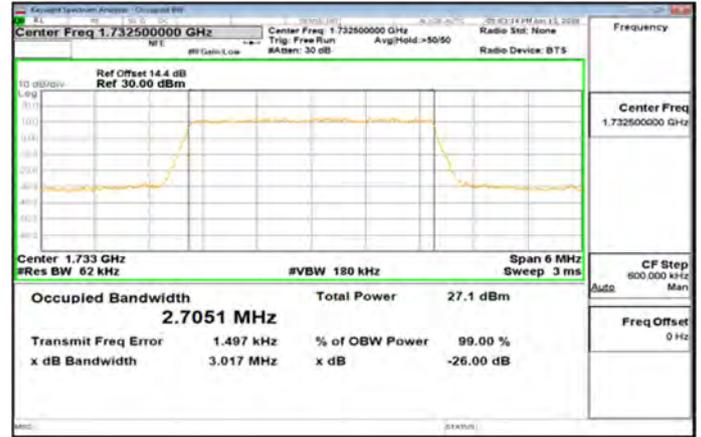
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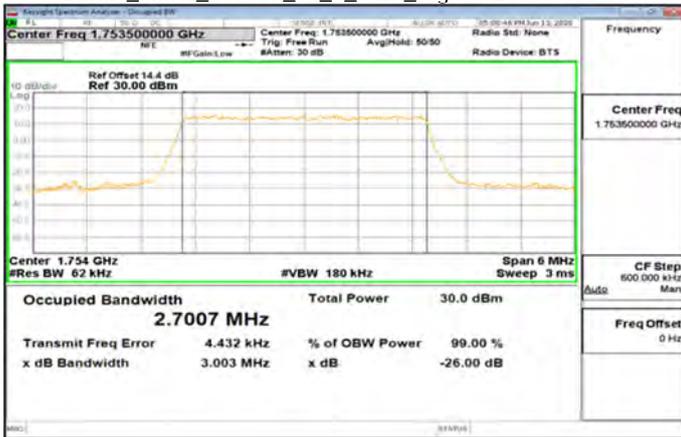
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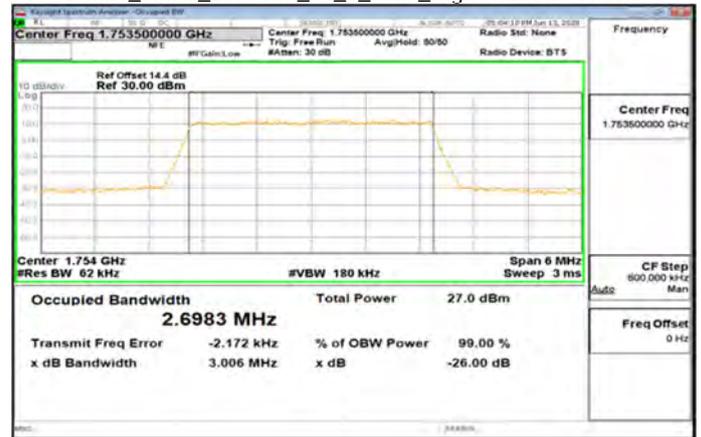
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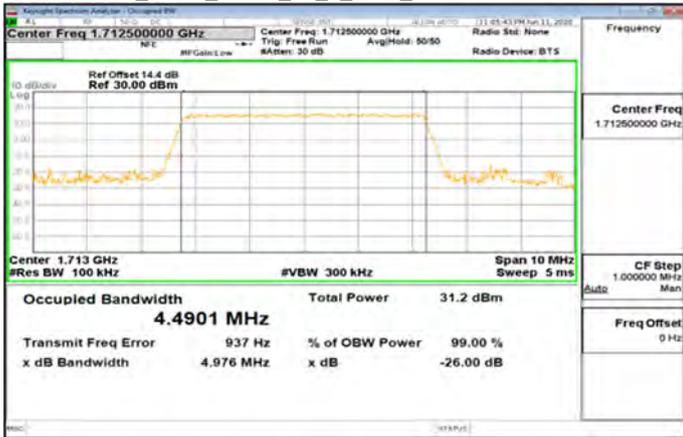


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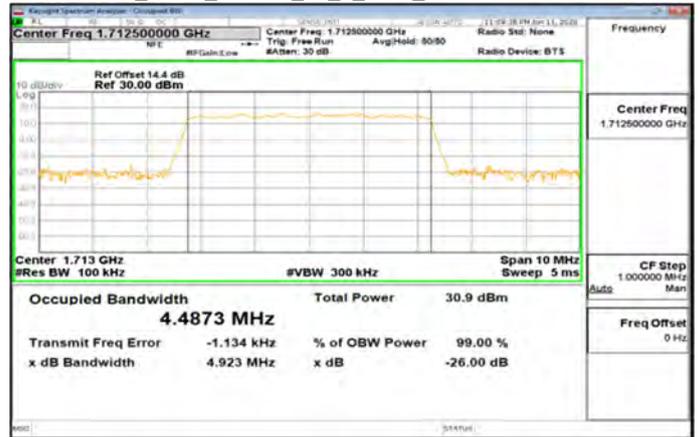
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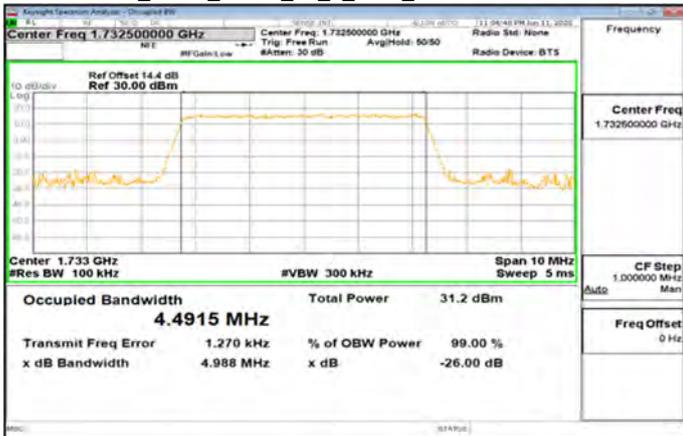
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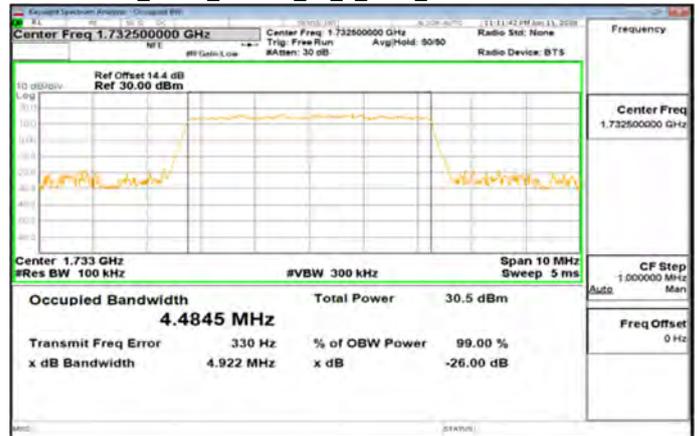
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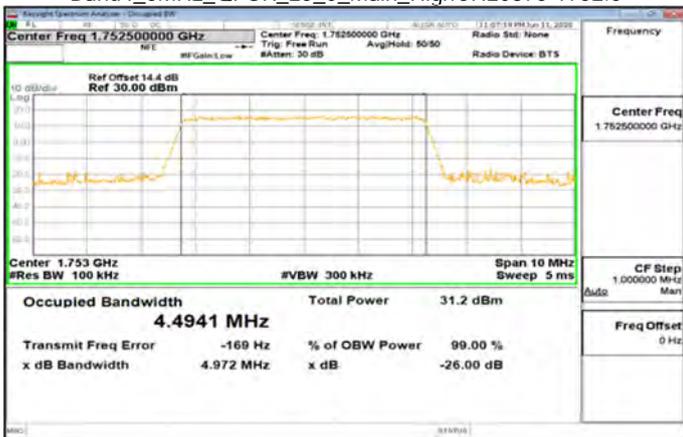
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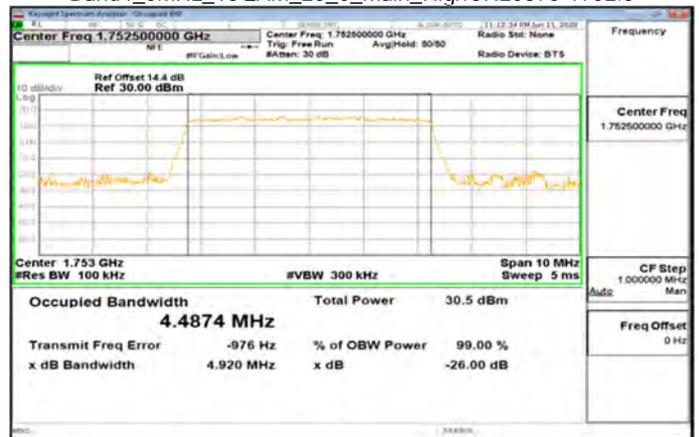
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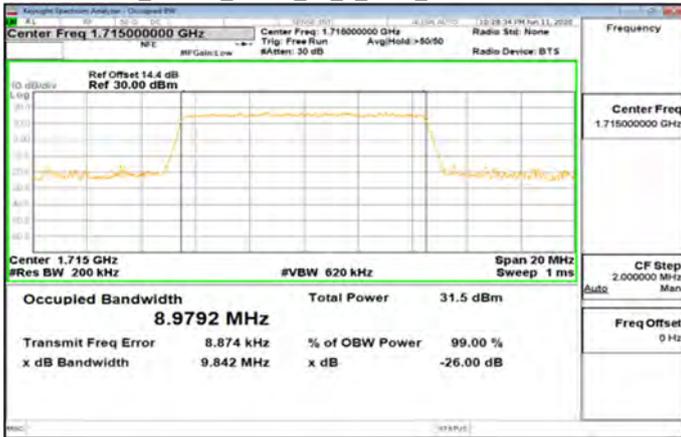


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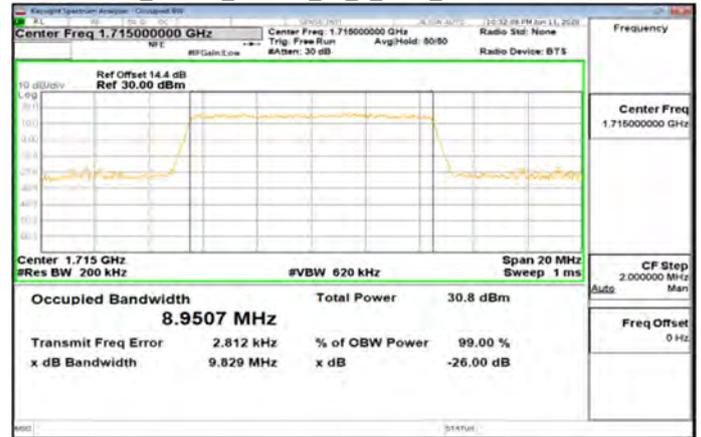
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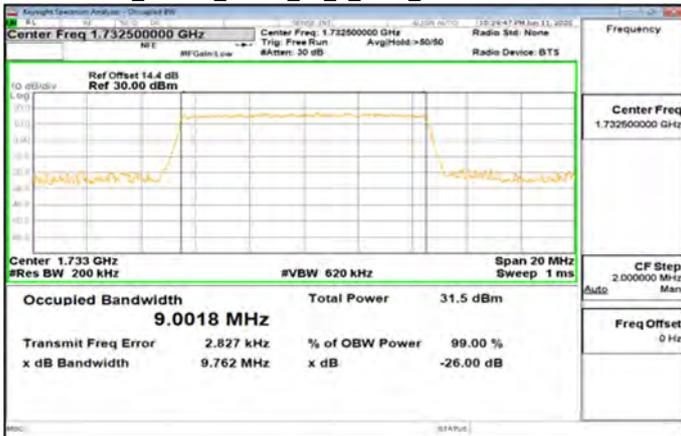
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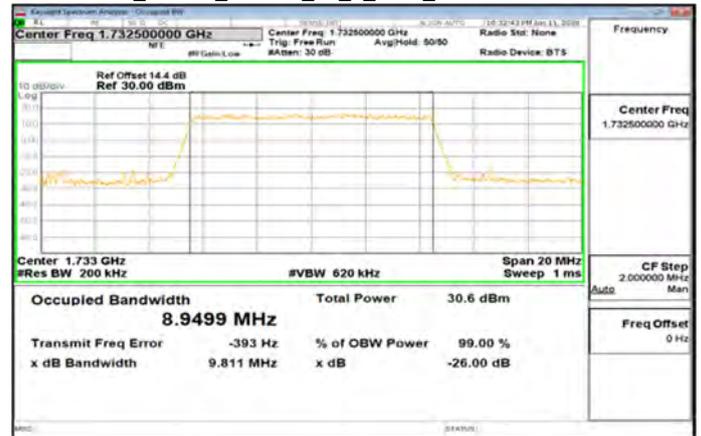
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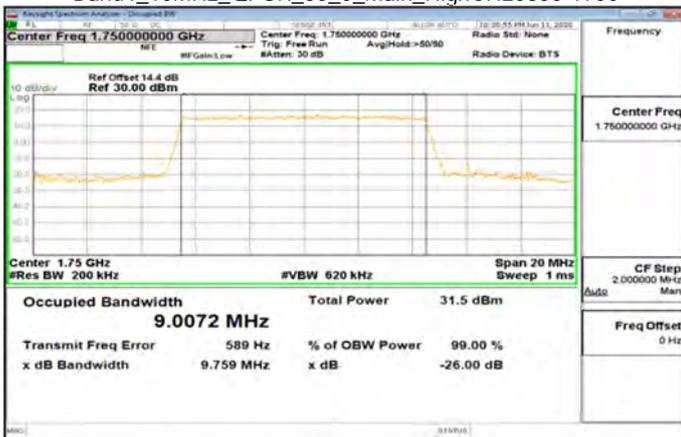
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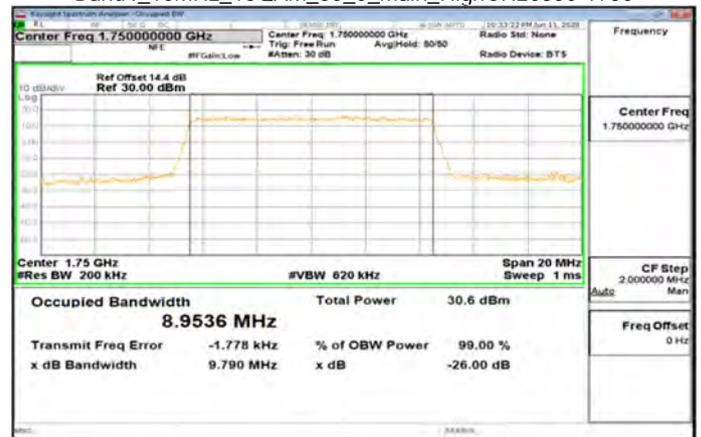
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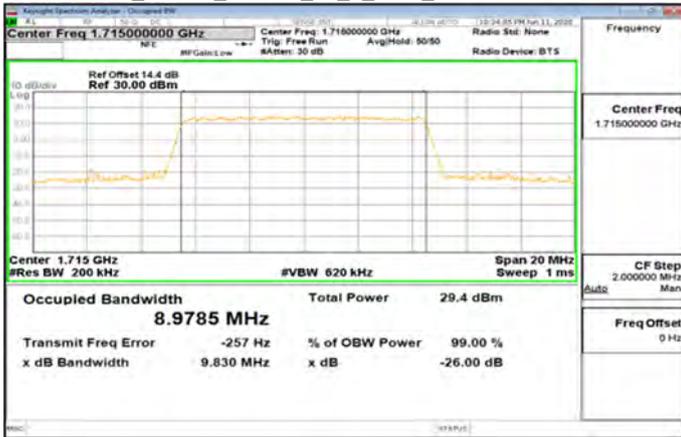


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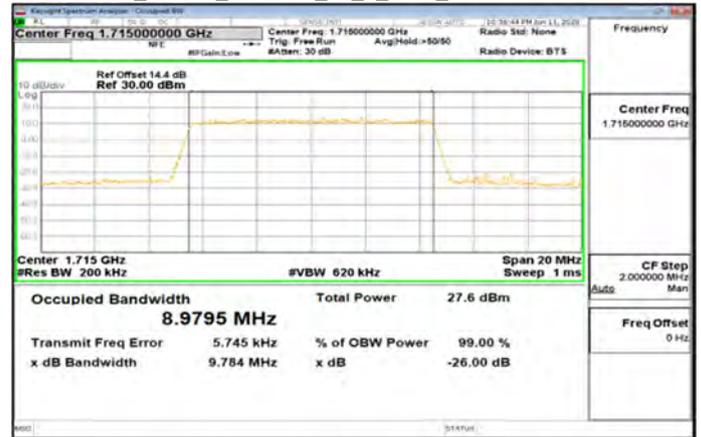
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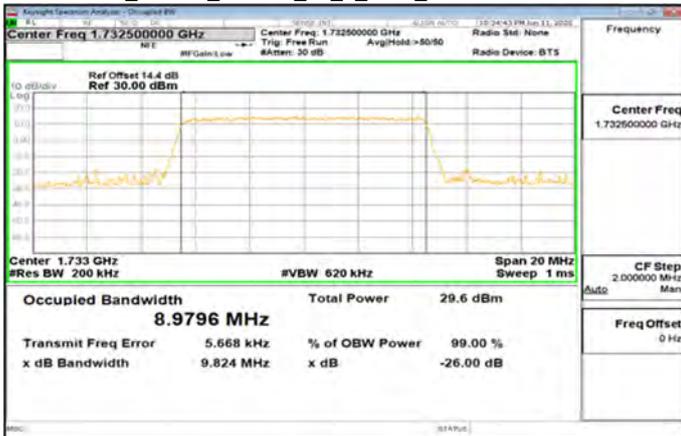
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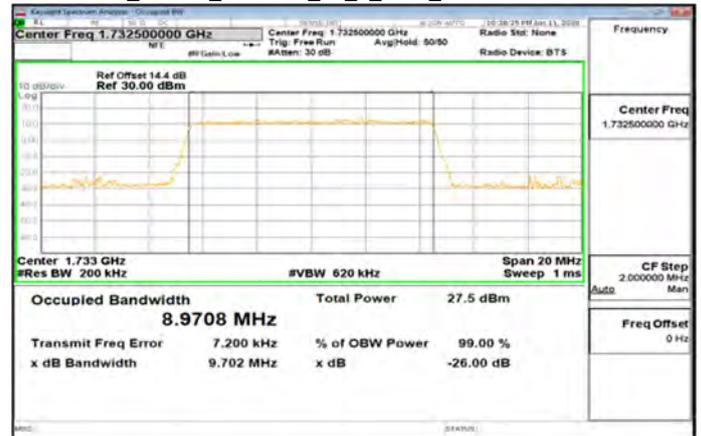
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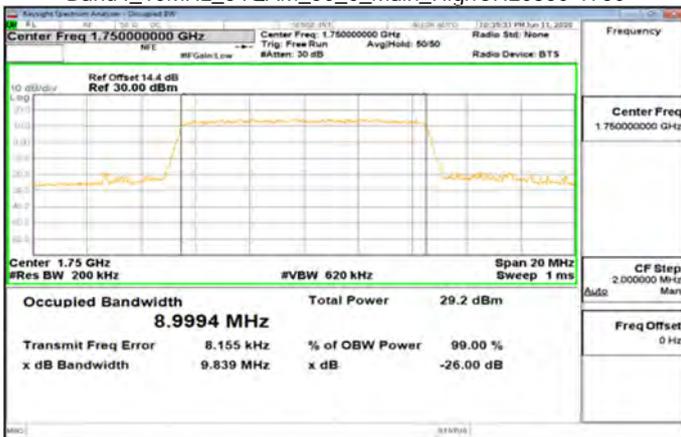
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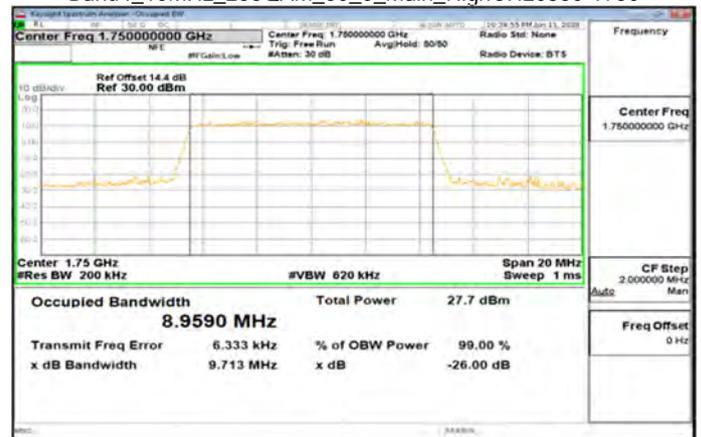
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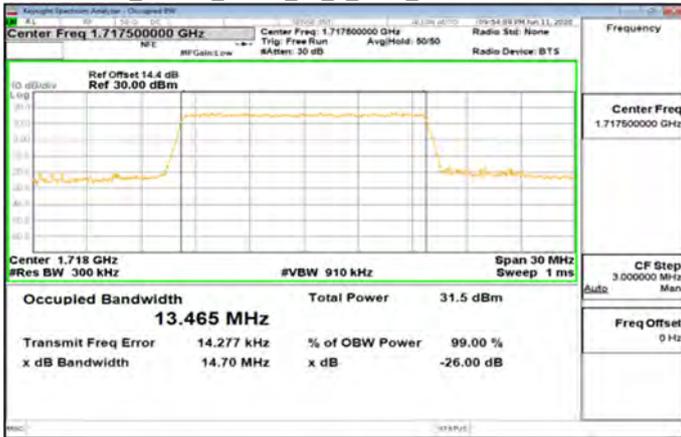


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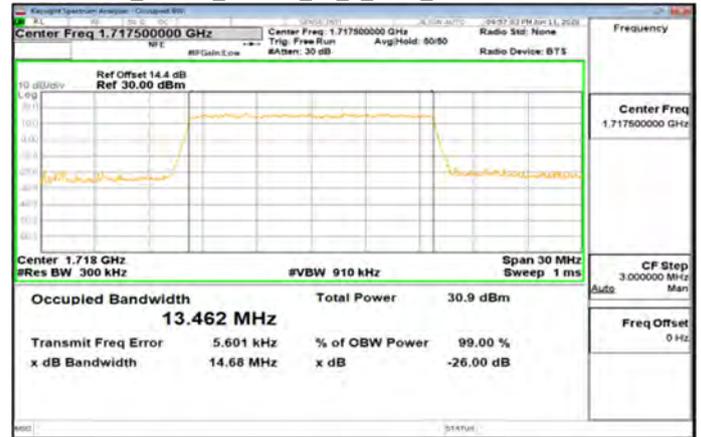
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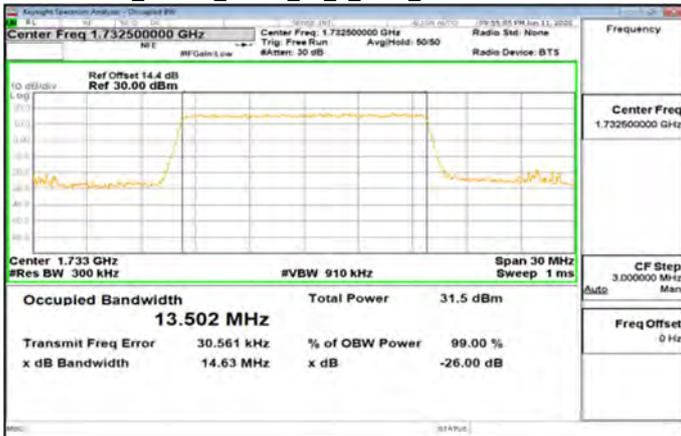
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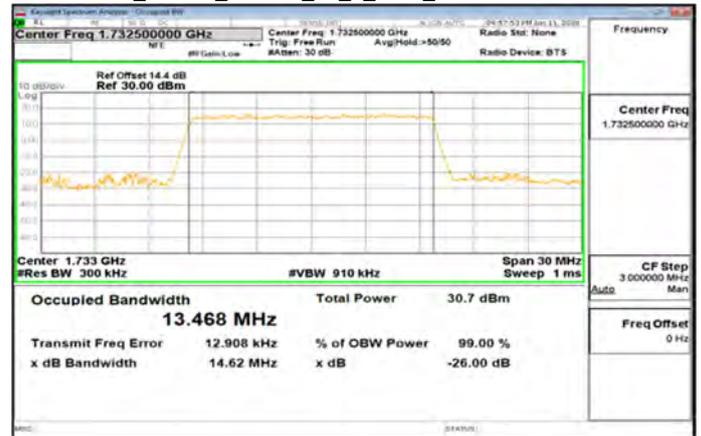
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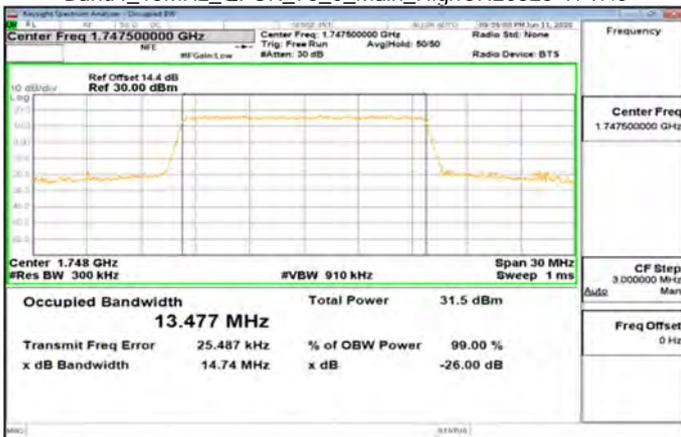
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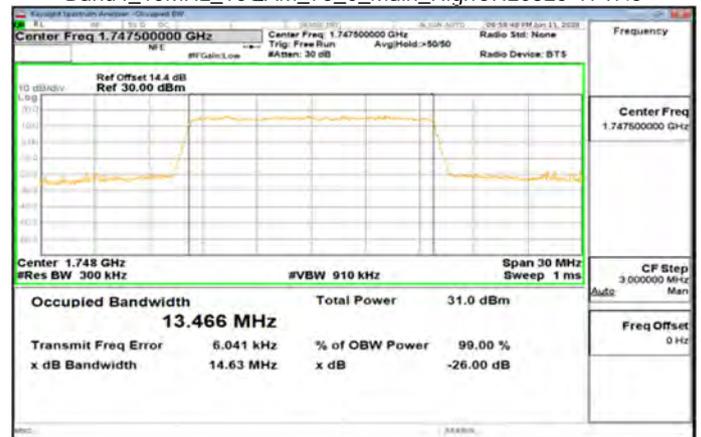
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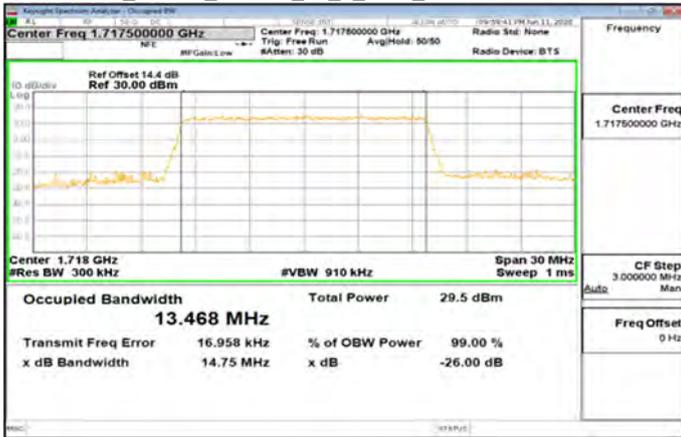


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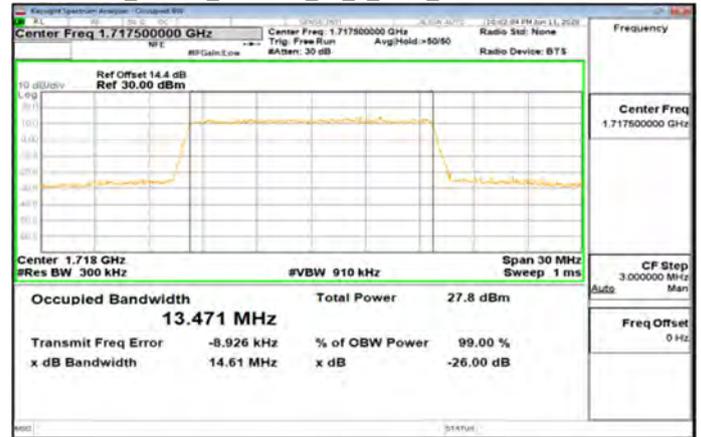
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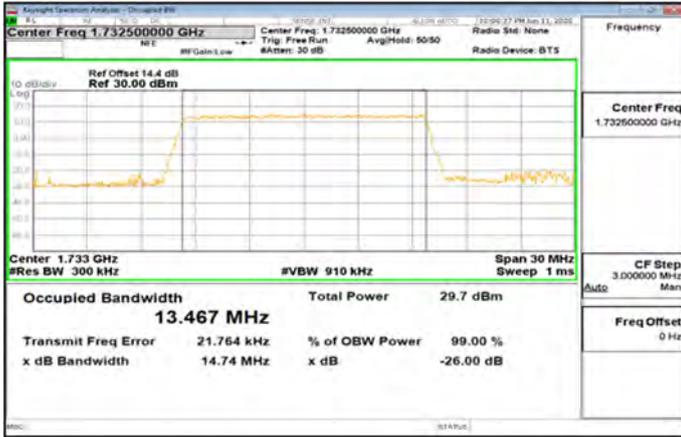
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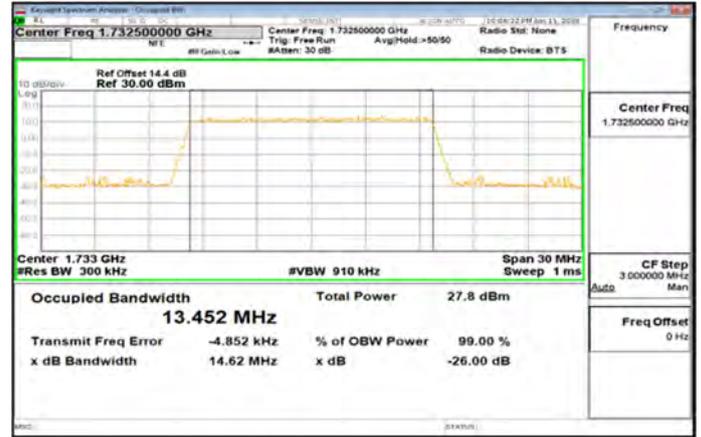
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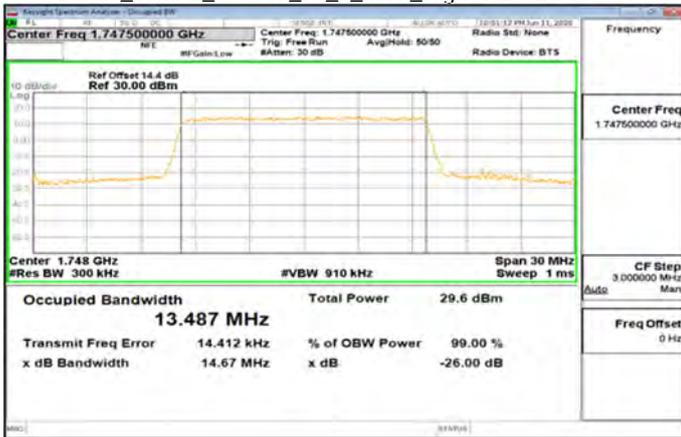
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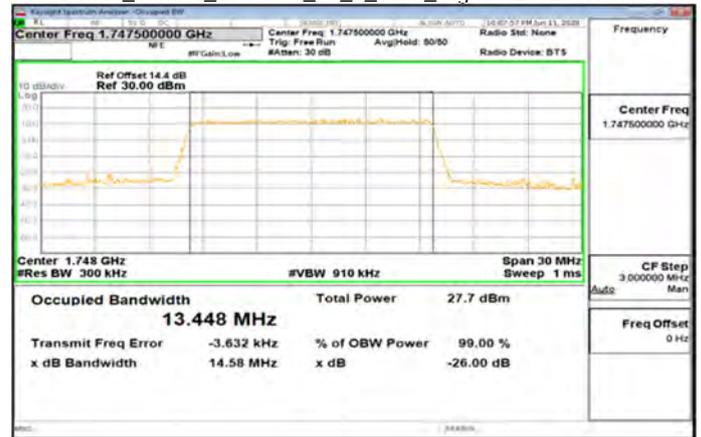
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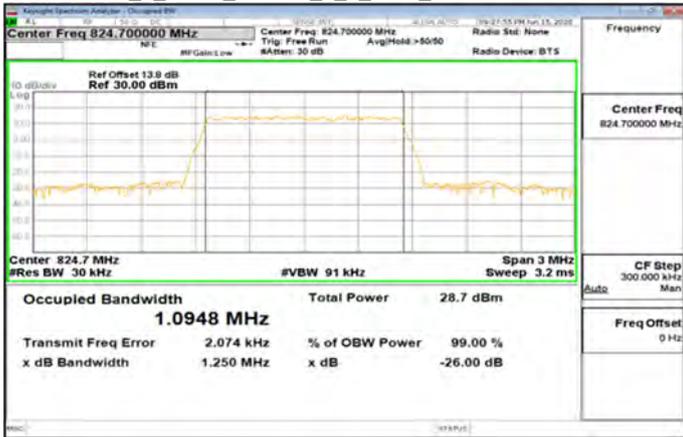


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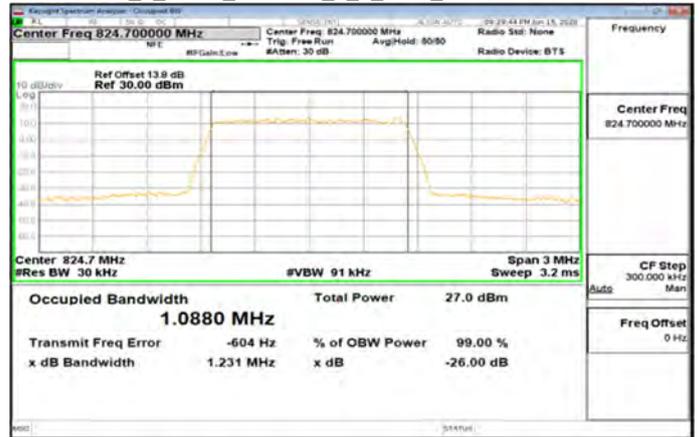
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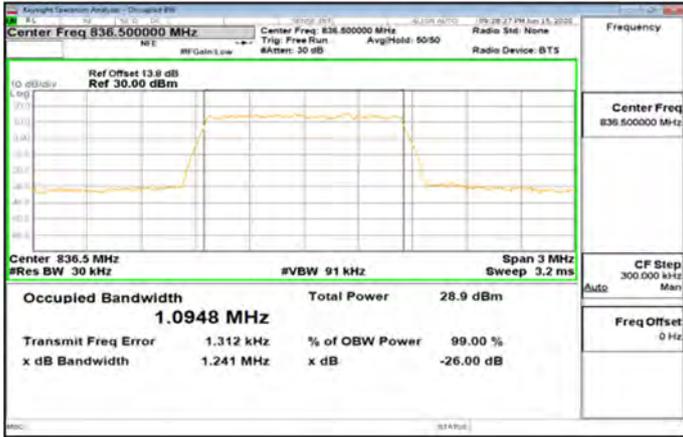
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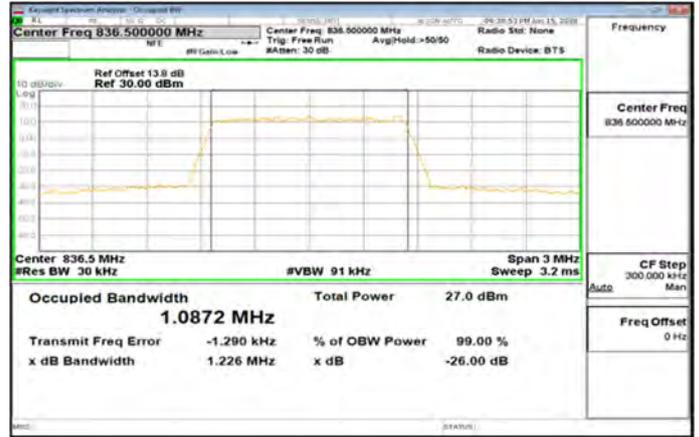
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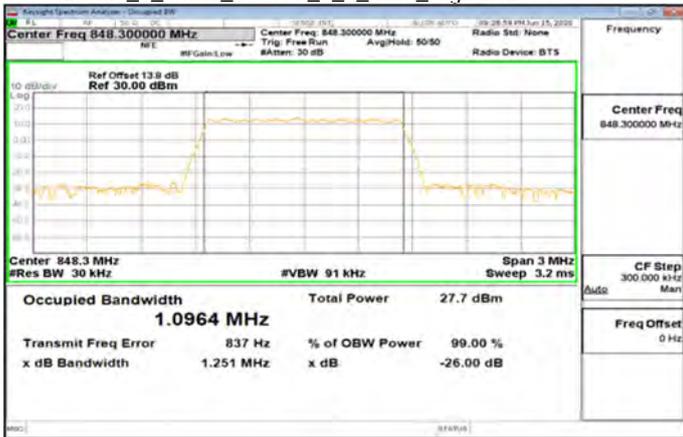
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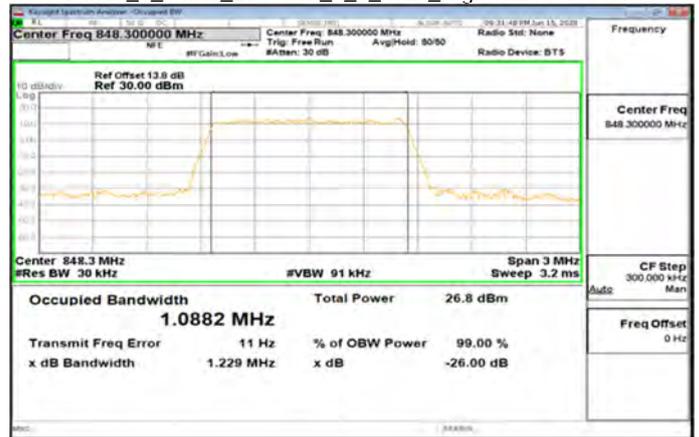
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Band5_1_4MHz_64QAM_6_0_Main_HighCH20643-848.3



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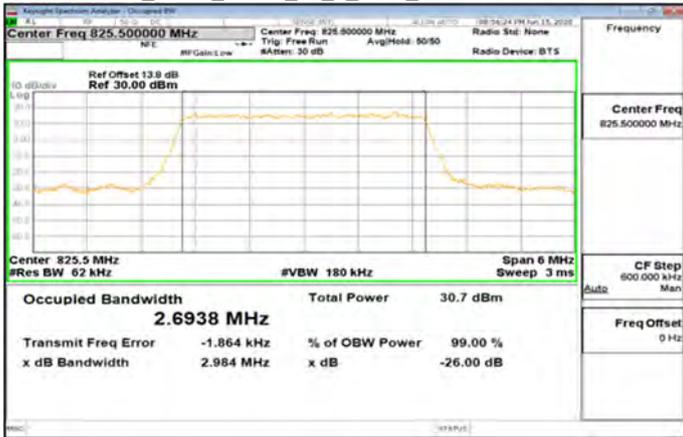


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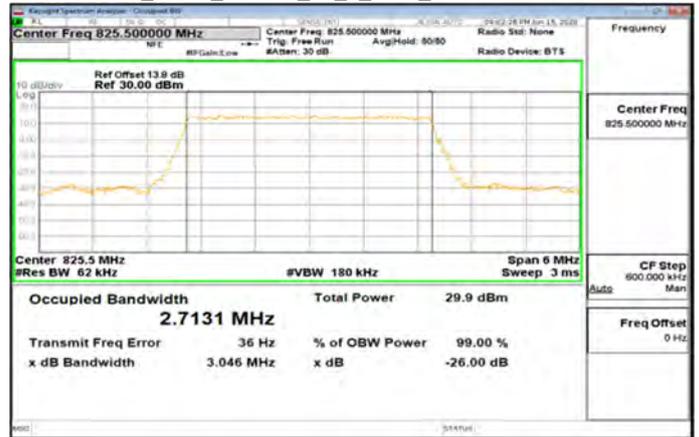
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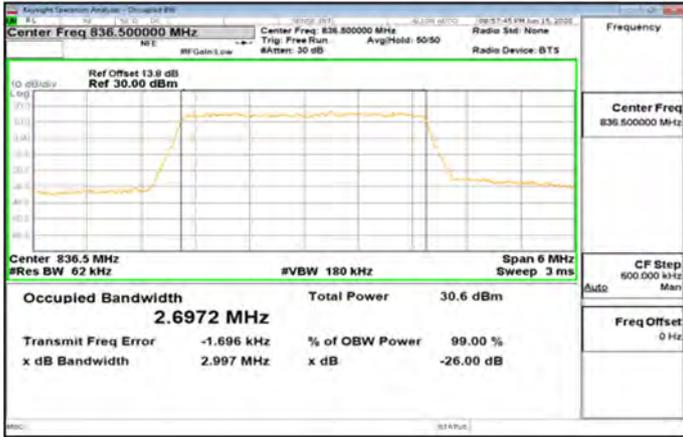
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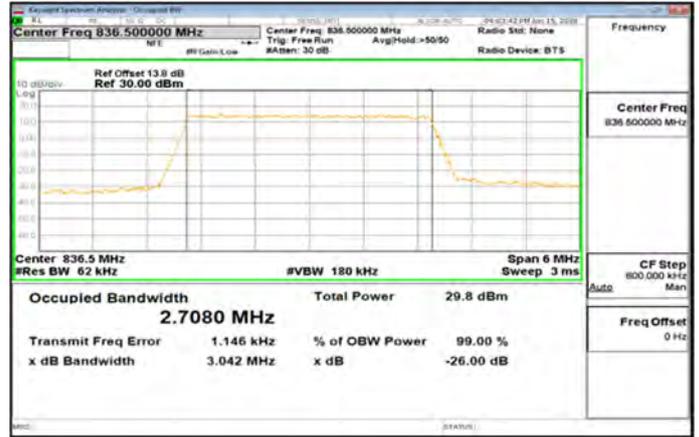
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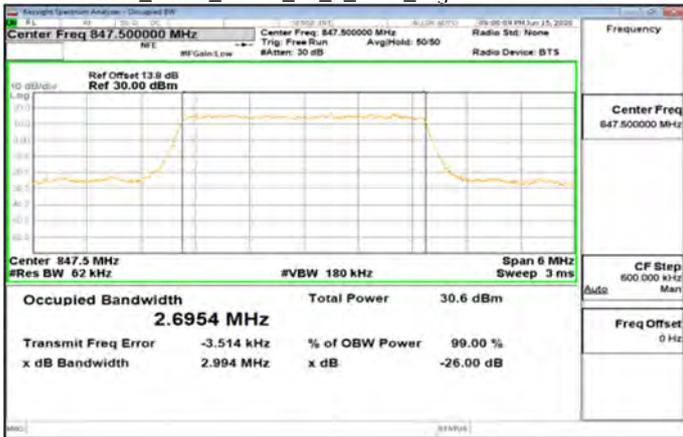
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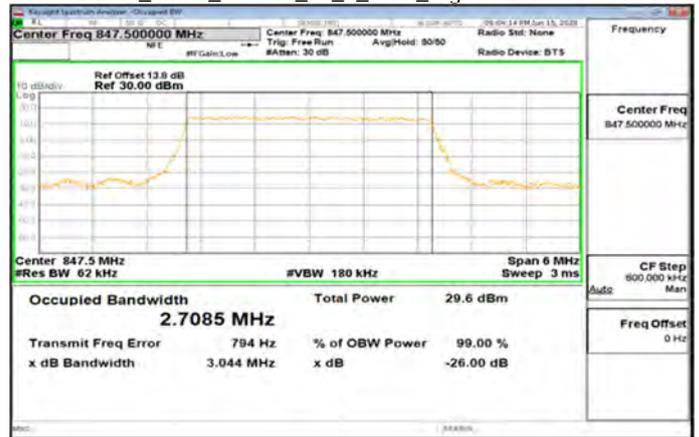
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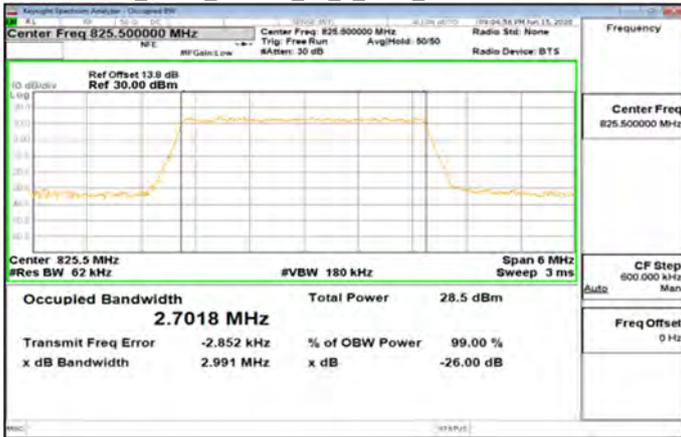


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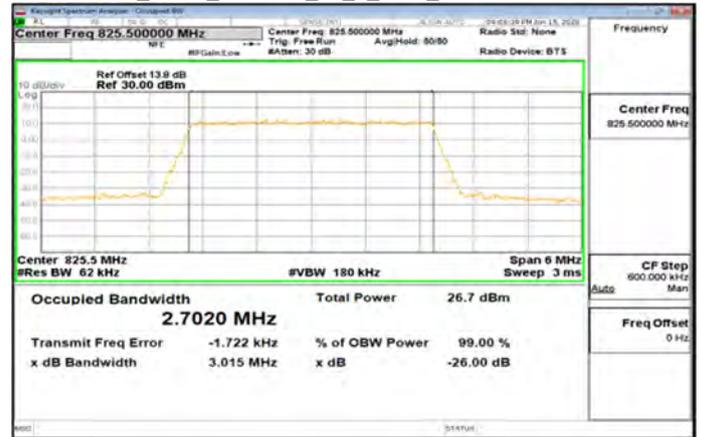
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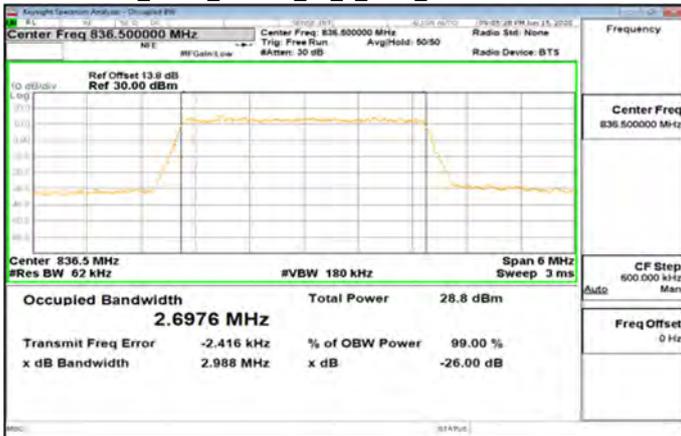
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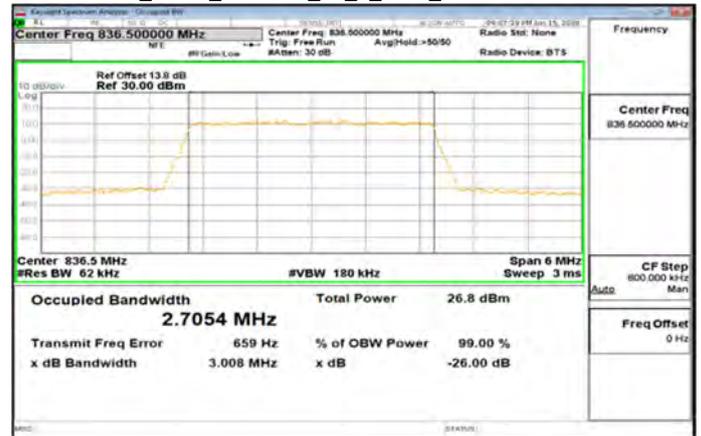
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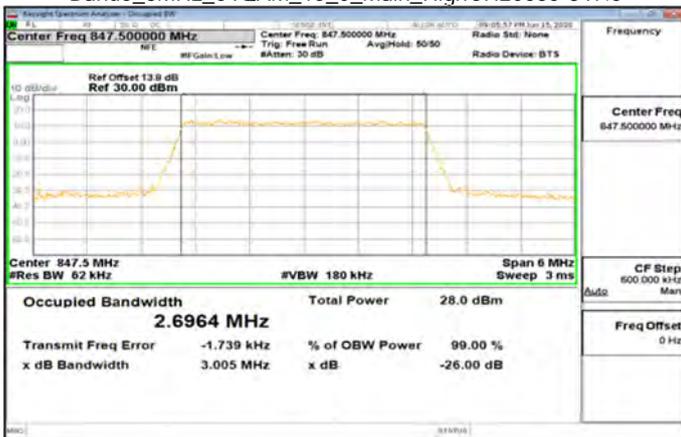
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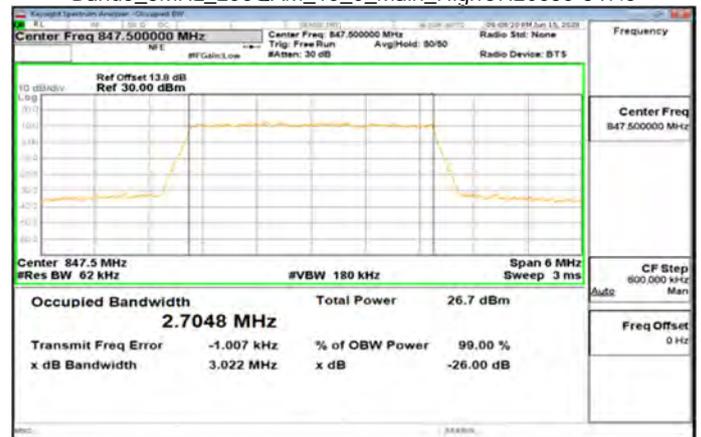
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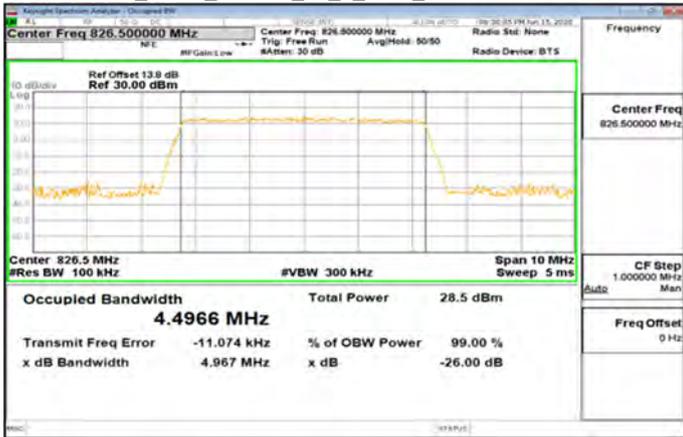


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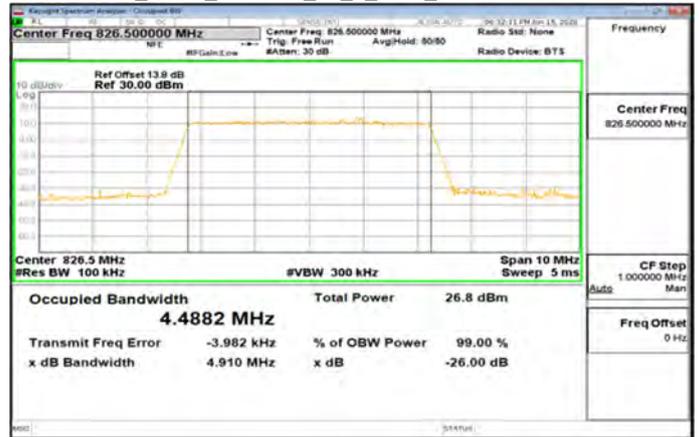
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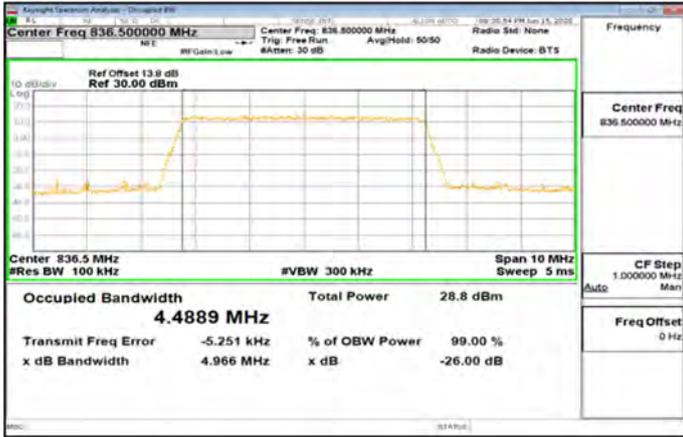
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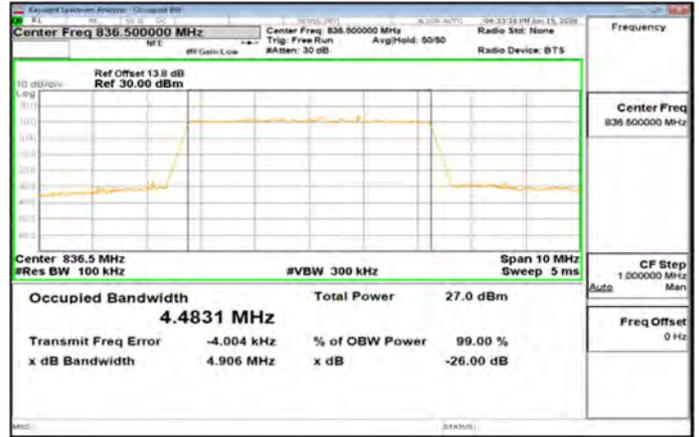
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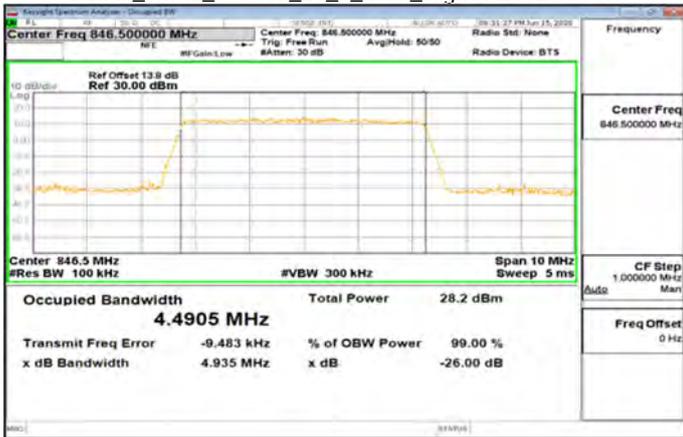
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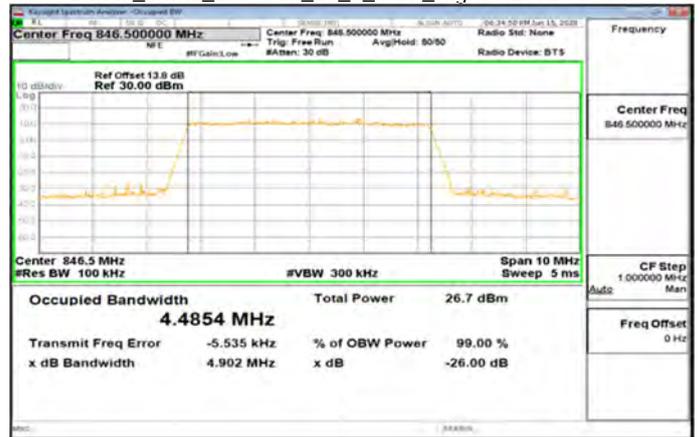
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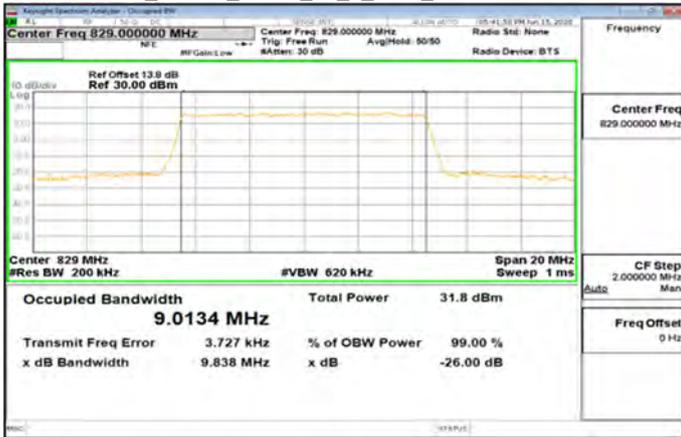


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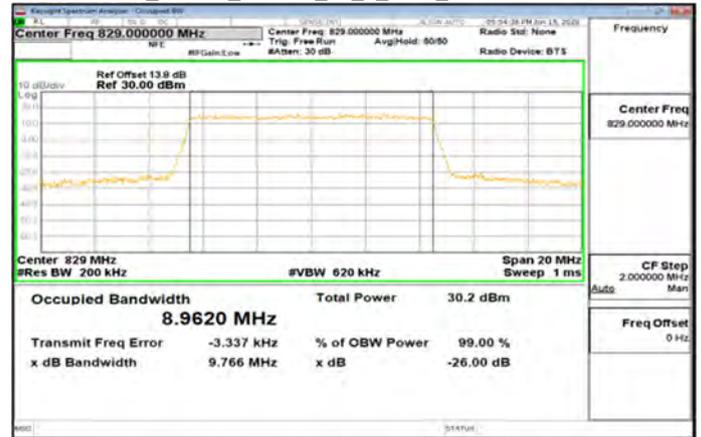
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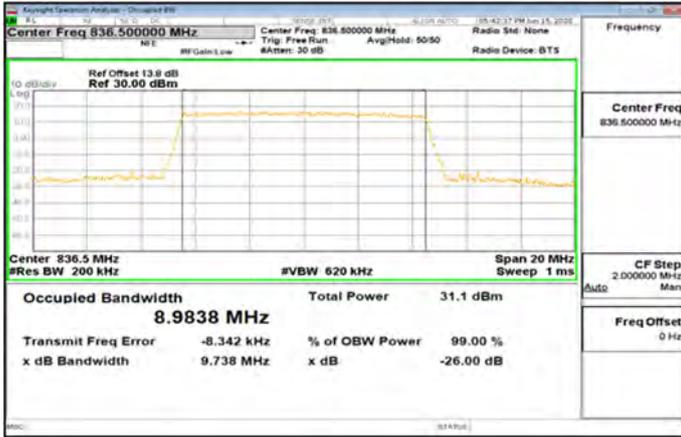
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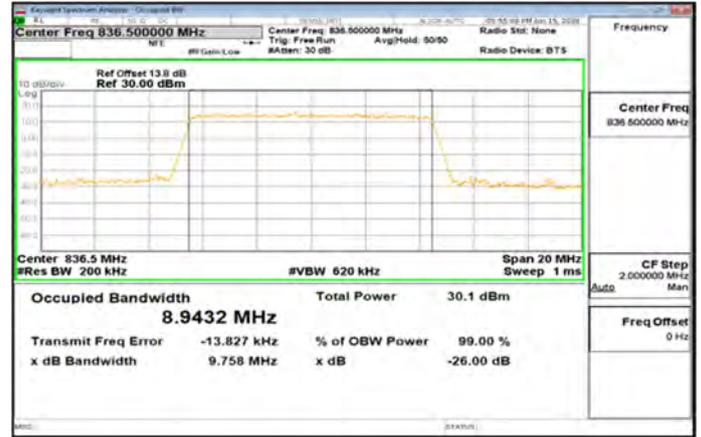
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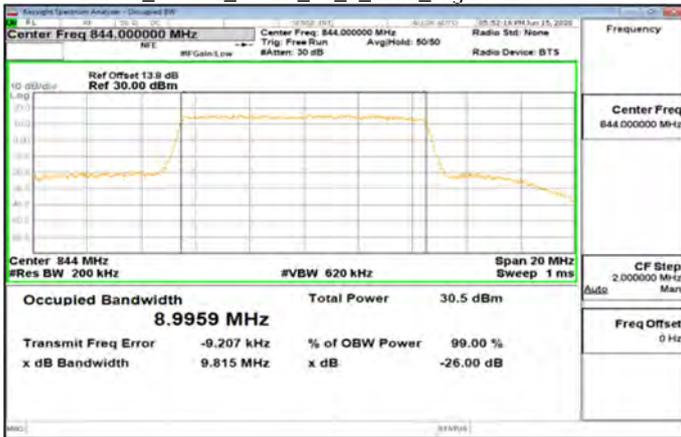
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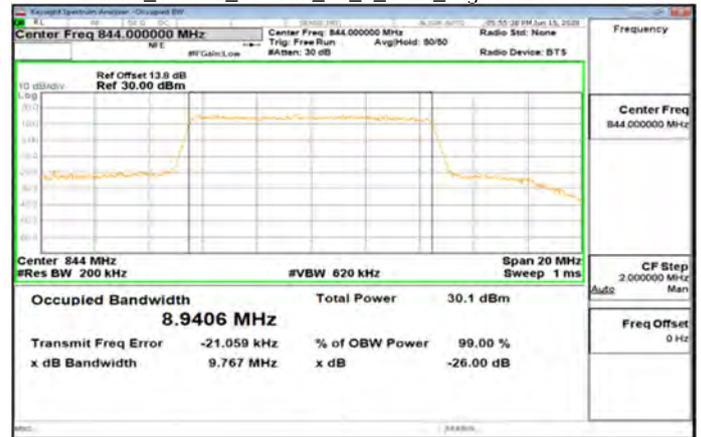
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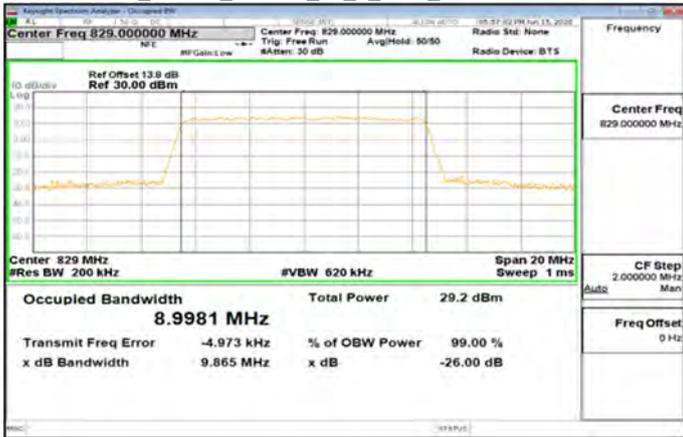


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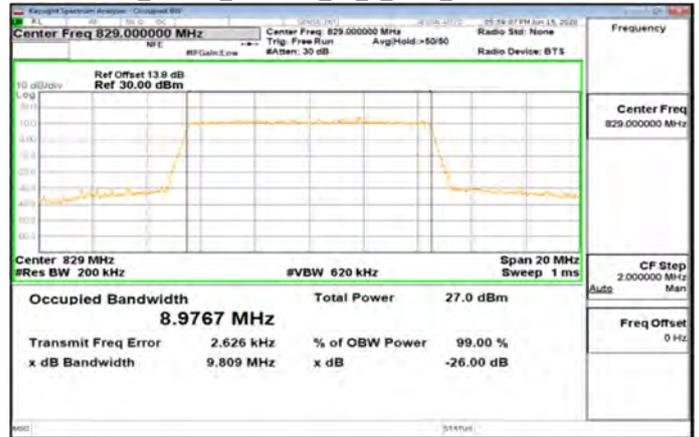
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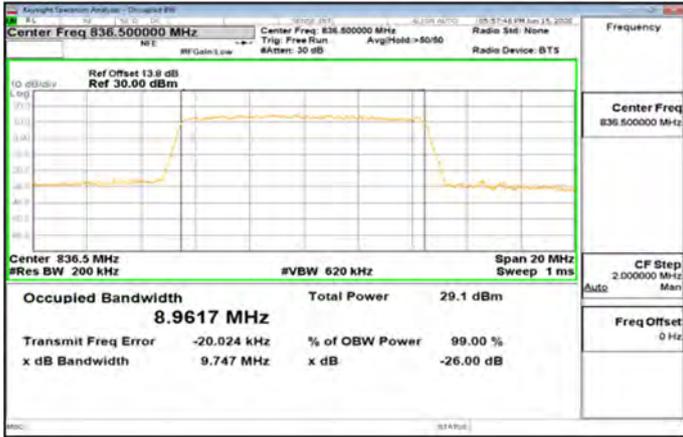
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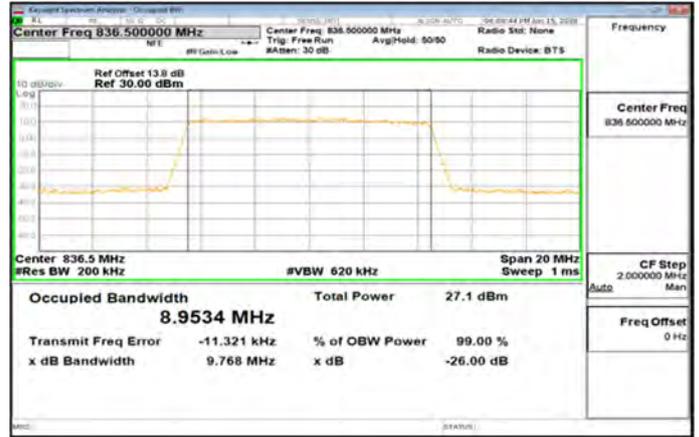
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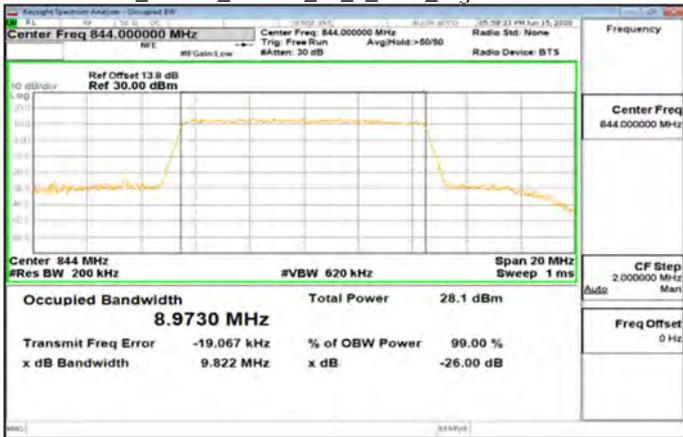
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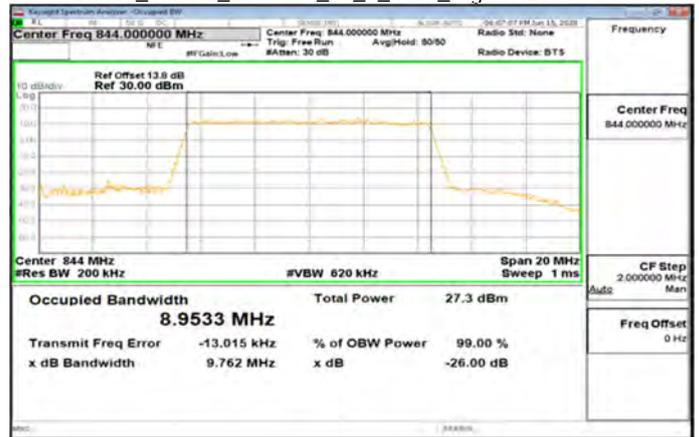
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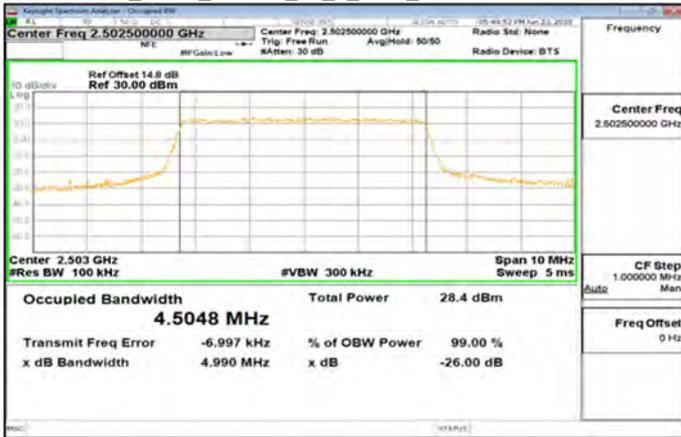


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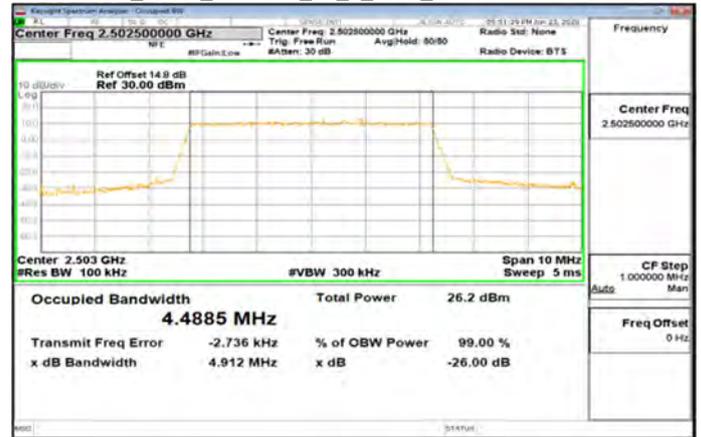
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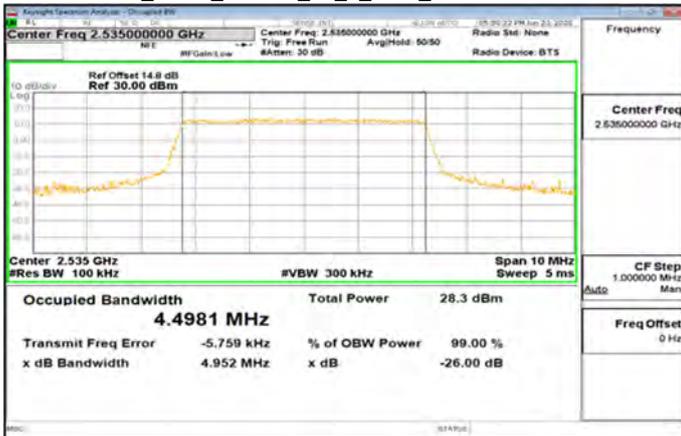
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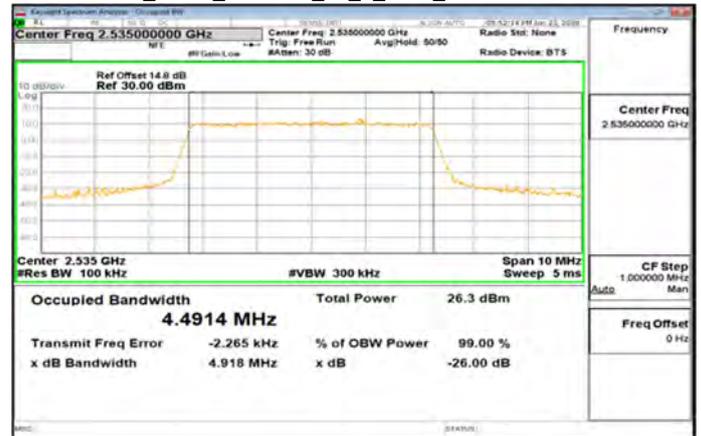
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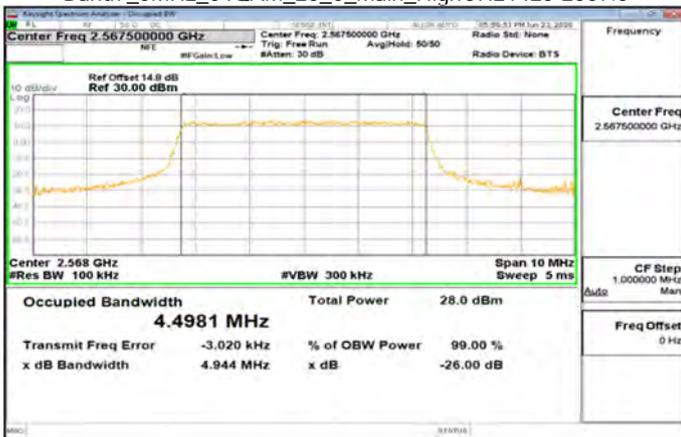
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Band7_5MHz_256QAM_25_0_Main_MidCH21100-2535



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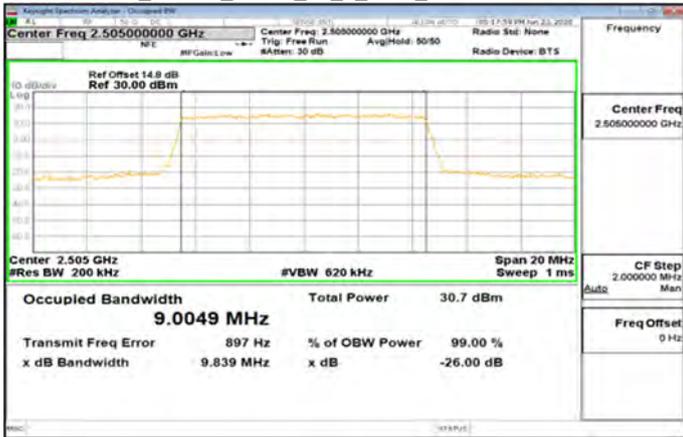


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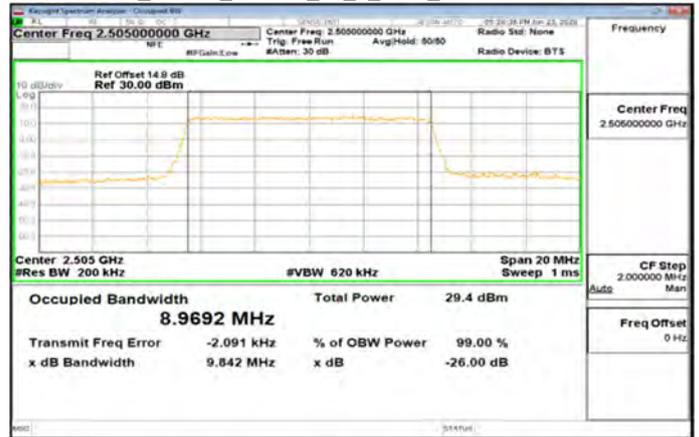
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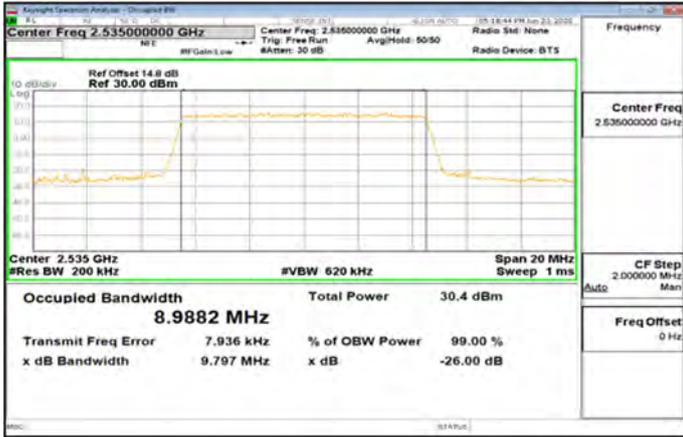
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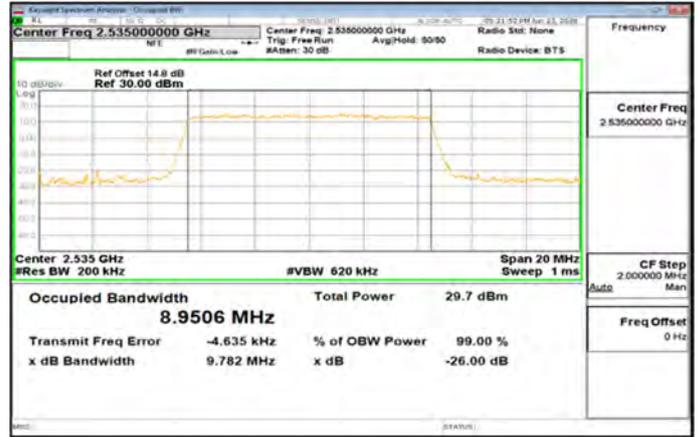
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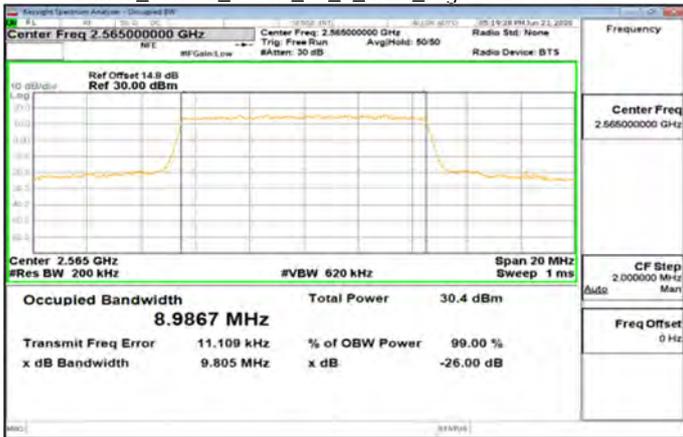
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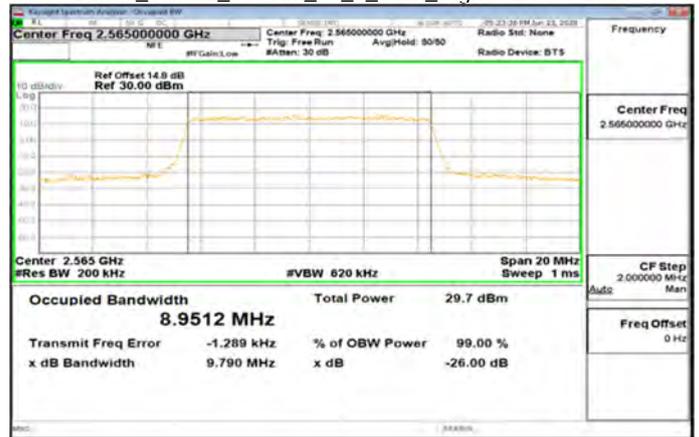
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Band7_10MHz_QPSK_50_0_Main_HighCH21400-2565



Band7_10MHz_16QAM_50_0_Main_HighCH21400-2565

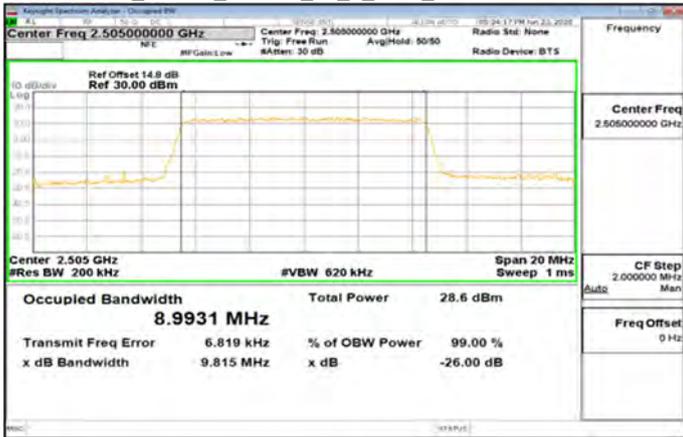


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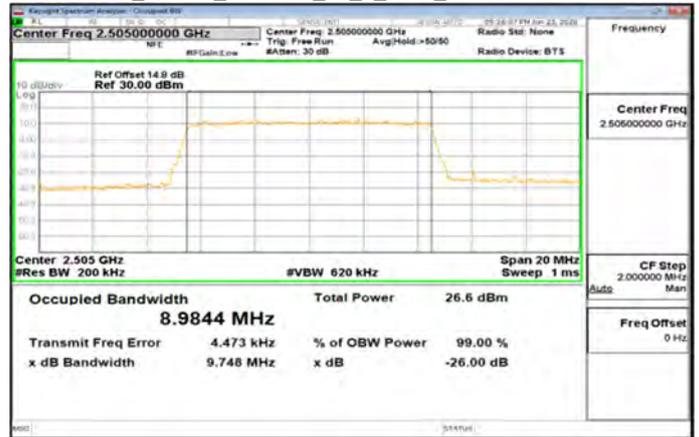
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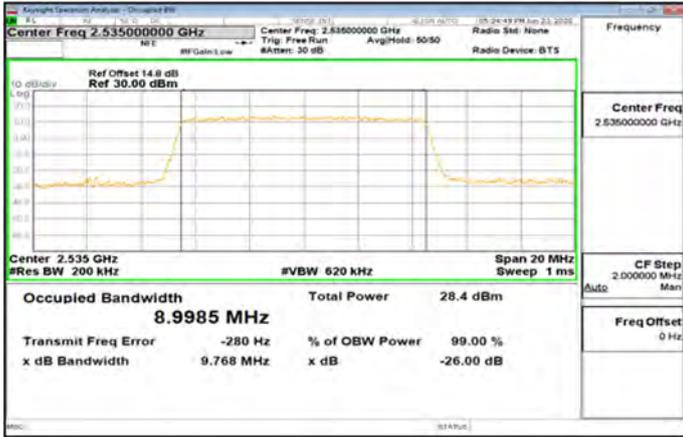
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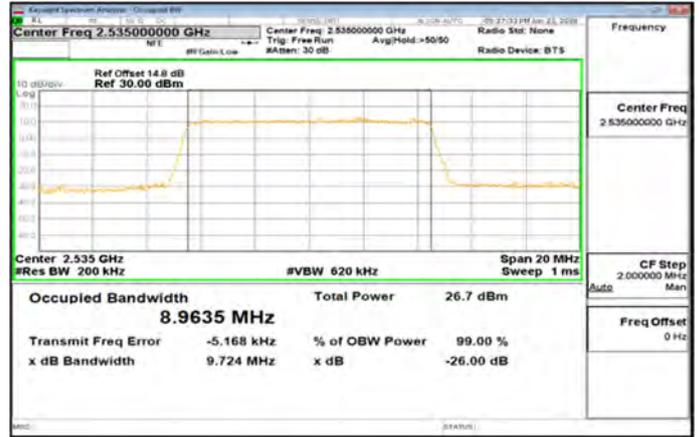
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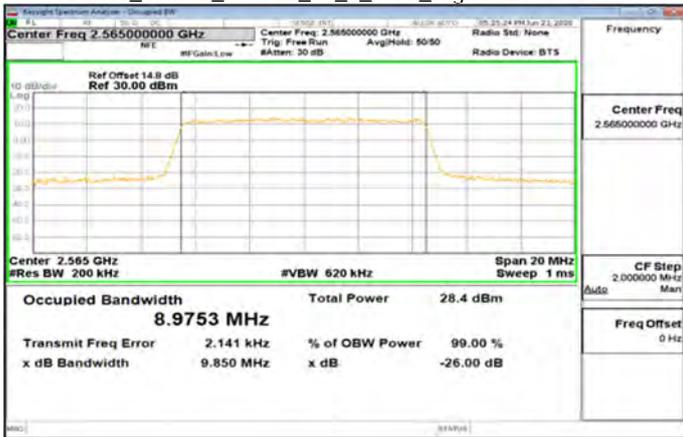
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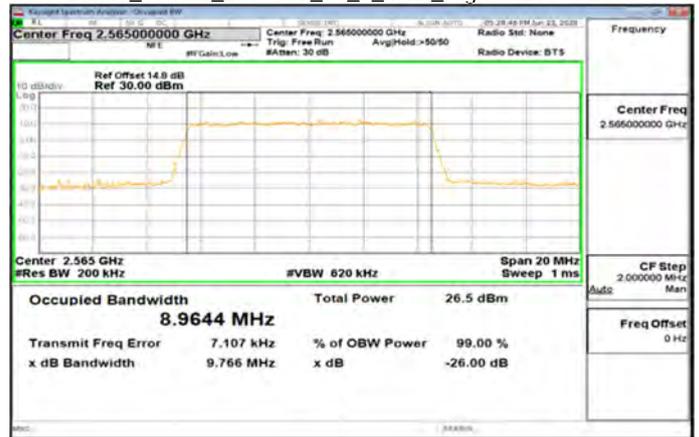
Band7_10MHz_256QAM_50_0_Main_MidCH21100-2535



Band7_10MHz_64QAM_50_0_Main_HighCH21400-2565



Band7_10MHz_256QAM_50_0_Main_HighCH21400-2565

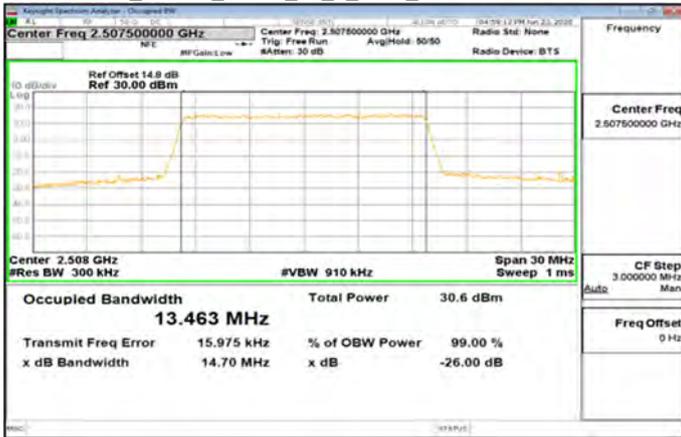


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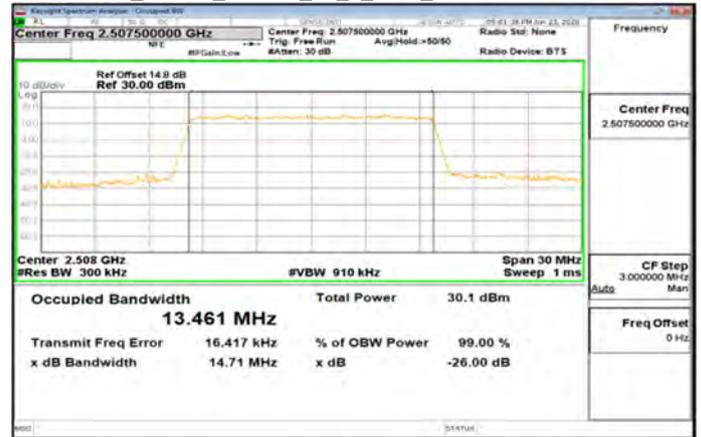
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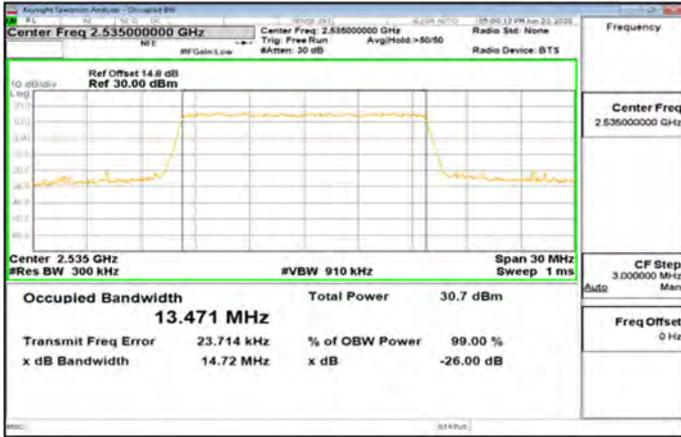
Band7_15MHz_QPSK_75_0_Main_LowCH20825-2507.5



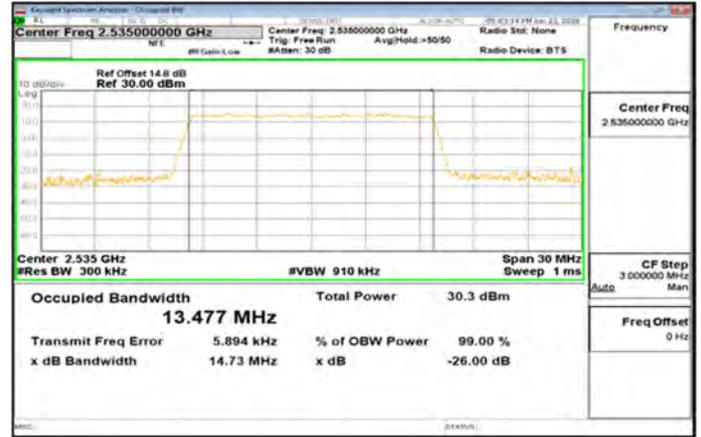
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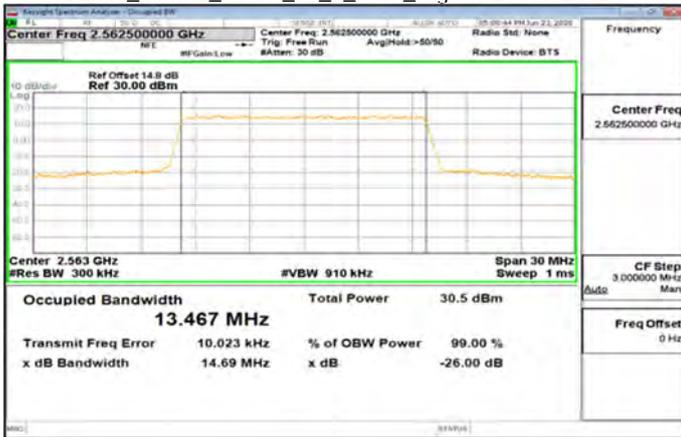
Band7_15MHz_QPSK_75_0_Main_MidCH21100-2535



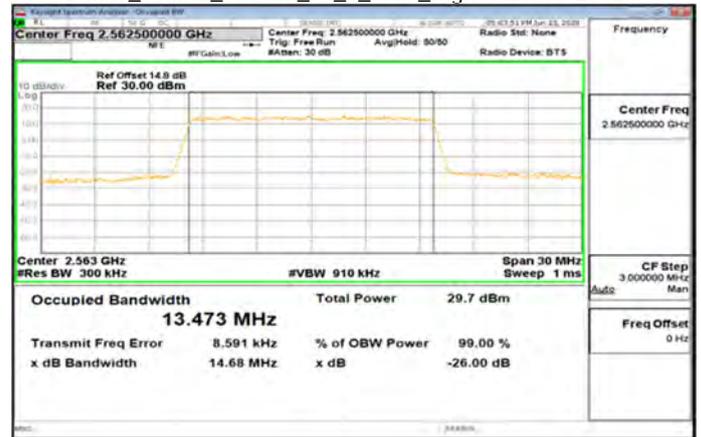
Band7_15MHz_16QAM_75_0_Main_MidCH21100-2535



Band7_15MHz_QPSK_75_0_Main_HighCH21375-2562.5



Band7_15MHz_16QAM_75_0_Main_HighCH21375-2562.5



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