

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

OF

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

Product Name: Portable Computing Device

Brand Name: Microsoft

Model No.: 1927

Contains Wi-Fi Module Model No.: 1956

FCC ID: C3K1927

Contains FCC ID: C3K1956

IC: 3048A-1927

Contains IC: 3048A-1956

Report Number: E2/2019/90045

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

IC Rule Part: RSS-130, 132, 133, 139, 140, 195, 199

Issue Date: Mar. 04, 2020

Date of Test: Sep. 30, 2019 ~ Nov. 19, 2019

Date of EUT Received: Sep. 30, 2019

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. 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:

Jay Lin

Jay Lin / 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
E2/2019/90045	Rev.00	Original.	Mar. 04, 2020	Revised By: Yuri Tsai

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Portable Computing Device	
Brand Name:	Microsoft	
Model No.:	1927	
Contains Wi-Fi Module Model No.:	1956	
HW Version (Product):	EV2	
SW Version (Product):	Windows 10 Pro	
HW Version (Radio):	EV2	
SW Version (Radio):	19.43.4.4/99.0.49.7/21.60.1.1	
Radio Test Tool & Version:	DRTU 11.1941.0-10270	
Firmware Version (Chip):	1943-95cfa2-c8-00004.05	
Power Supply:	7.66Vdc from Rechargeable Lithium-Ion Polymer Battery or 15V from AC/DC Adapter	
	Battery:	Model No.: DYNU01, Supplier: DYNAPACK
	Adapter:	Model No.: 1735, Supplier: LITEON

Note:

This report is for host FCC ID: C3K1927 which contains the module FCC ID: C3K1956.

This report is for host IC: 3048A-1927 which contains the module IC: 3048A-1956.

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1.2. WCDMA / LTE: Cellular Phone Standards Frequency Range

Operating Frequency (MHz)		
WCDMA / HSPA+ Band II	1852.4	- 1907.6
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	13	5	779.5	-	784.5
	3	1851.5	-	1908.5		10	782		
	5	1852.5	-	1907.5	25	1.4	1850.7	-	1914.3
	10	1855.0	-	1905.0		3	1851.5	-	1913.5
	15	1857.5	-	1902.5		5	1852.5	-	1912.5
	20	1860.0	-	1900.0		10	1855.0	-	1910.0
4	1.4	1710.7	-	1754.3		15	1857.5	-	1907.5
	3	1711.5	-	1753.5	26	20	1860.0	-	1905.0
	5	1712.5	-	1752.5		1.4	824.7	-	848.3
	10	1715.0	-	1780.0		3	825.5	-	847.5
	15	1717.5	-	1747.5		5	826.5	-	846.5
	20	1720.0	-	1745.0		10	829.0	-	844.0
5	1.4	824.7	-	848.3	26 Part90	15	831.5	-	841.5
	3	825.5	-	847.5		1.4	814.7	-	823.3
	5	826.5	-	846.5		3	815.5	-	822.5
	10	829.0	-	844.0		5	816.5	-	821.5
7	5	2502.5	-	2567.5		10	819.0		
	10	2505.0	-	2565.0	30	5	2307.5	-	2312.5
	15	2507.5	-	2562.5		10	2310.0		
	20	2510.0	-	2560.0	38	5	2572.5	-	2617.5
12	1.4	699.7	-	715.3		10	2575.0	-	2615.0
	3	700.5	-	714.5		15	2577.5	-	2612.5
	5	701.5	-	713.5		20	2580.0	-	2610.0
	10	704.0	~	711.0					

LTE Band	BW (MHz)	Operation Frequency (MHz)		
14	5	790.5	-	795.5
	10	793		

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LTE Band	BW (MHz)	Operation Frequency (MHz)	LTE Band	BW (MHz)	Operation Frequency (MHz)
41	5	2498.5 - 2687.5	66	1.4	1710.7 - 1779.3
	10	2501.0 - 2685.0		3	1711.5 - 1778.5
	15	2503.5 - 2682.5		5	1712.5 - 1777.5
	20	2506.0 - 2680.0		10	1715.0 - 1775.0
				15	1717.5 - 1772.5
				20	1720.0 - 1770.0

1.3. Antenna Designation

Vendor	Type	Main / Aux	Antenna Part No.	Modulation	Frequency (MHz)			Peak Antenna Gain (dBi)
ADVANCED WIRELESS & ANTENNA INC.	Monopole	Main	DQ60AML0001 / AML00-000010	WCDMA / HSPA Band II	1852.4	~	1907.6	0.7
				WCDMA / HSPA Band V	826.4	~	846.6	-2.5
				LTE Band 2	1850	~	1910	0.7
				LTE Band 4	1710	~	1755	2.4
				LTE Band 5	824	~	849	-2.5
				LTE Band 7	2503	~	2560	1.3
				LTE Band 12	699	~	716	-2.0
				LTE Band 13	777	~	787	-1.9
				LTE Band 14	788	~	798	-1.9
				LTE Band 25	1850	~	1915	0.7
				LTE Band 26	824	~	849	-2.5
				LTE Band 26 (Part 90S)	814	~	824	-2.5
				LTE Band 30	2305	~	2315	0.4
				LTE Band 38	2573	~	2610	0.6
				LTE Band 41	2496	~	2690	1.3
				LTE Band 66	1710	~	1780	2.4

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1.4. WWAN Tune up tolerance:

MPR is excluded from this table.

Bands	WCDMA BII	WCDMA BV	LTE B2	LTE B4	LTE B5	LTE B7	LTE B12	LTE B13
*Full Power	25	25	25	24.5	25	22.8	25	25
	(24 +/- 1dB)	(24 +/- 1dB)	(24 +/- 1dB)	(23.5 +/- 1dB)	(24 +/- 1dB)	(22 + 0.8/- 0.7 dB)	(24 +/- 1dB)	(24 +/- 1dB)
Bands	LTE B14	LTE B25	LTE B26	LTE B30	LTE B38	LTE B41	LTE B66	
*Full Power	25	25	25	23.5	24.5	24.5	24.5	
	(24 +/- 1dB)	(24 +/- 1dB)	(24 +/- 1dB)	(22.5 +/- 1dB)	(23.5 +/- 1dB)	(23.5 +/- 1dB)	(23.5 +/- 1dB)	

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

	ERP / EIRP (dBm)		W	Type of Emission
WCDMA Band II	25.03	EIRP	0.318	4M13F9W
HSDPA Band II	24.08	EIRP	0.256	4M12F9W
HSUPA Band II	24.07	EIRP	0.255	4M12F9W
WCDMA Band V	19.56	ERP	0.090	4M12F9W
HSDPA Band V	18.59	ERP	0.072	4M12F9W
HSUPA Band V	18.58	ERP	0.072	4M12F9W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	25.01	EIRP	0.317	1M09G7D
		16QAM	24.45	EIRP	0.279	1M10D7W
		64QAM	24.33	EIRP	0.271	1M10D7W
2	3	QPSK	24.81	EIRP	0.303	2M70G7D
		16QAM	24.25	EIRP	0.266	2M70D7W
		64QAM	24.20	EIRP	0.263	2M71D7W
2	5	QPSK	24.80	EIRP	0.302	4M50G7D
		16QAM	24.26	EIRP	0.267	4M51D7W
		64QAM	24.39	EIRP	0.275	4M50D7W
2	10	QPSK	25.07	EIRP	0.321	9M01G7D
		16QAM	24.43	EIRP	0.277	8M96D7W
		64QAM	24.30	EIRP	0.269	8M99D7W
2	15	QPSK	25.06	EIRP	0.321	13M5G7D
		16QAM	24.45	EIRP	0.279	13M5D7W
		64QAM	24.31	EIRP	0.270	13M5D7W
2	20	QPSK	25.09	EIRP	0.323	17M9G7D
		16QAM	24.52	EIRP	0.283	18M0D7W
		64QAM	24.49	EIRP	0.281	17M9D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	26.38	EIRP	0.435	1M10G7D
		16QAM	25.84	EIRP	0.384	1M10D7W
		64QAM	25.64	EIRP	0.366	1M10D7W
4	3	QPSK	26.36	EIRP	0.433	2M70G7D
		16QAM	25.77	EIRP	0.378	2M70D7W
		64QAM	25.75	EIRP	0.376	2M71D7W
4	5	QPSK	26.35	EIRP	0.432	4M50G7D
		16QAM	25.71	EIRP	0.372	4M51D7W
		64QAM	25.69	EIRP	0.371	4M51D7W
4	10	QPSK	26.36	EIRP	0.433	9M01G7D
		16QAM	25.82	EIRP	0.382	8M96D7W
		64QAM	25.60	EIRP	0.363	8M99D7W
4	15	QPSK	26.35	EIRP	0.432	13M5G7D
		16QAM	25.77	EIRP	0.378	13M5D7W
		64QAM	25.68	EIRP	0.370	13M5D7W
4	20	QPSK	26.39	EIRP	0.436	17M9G7D
		16QAM	25.88	EIRP	0.387	18M0D7W
		64QAM	25.77	EIRP	0.378	18M0D7W

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
5	1.4	QPSK	19.25	ERP	0.084	1M10G7D
		16QAM	18.77	ERP	0.075	1M10D7W
		64QAM	18.68	ERP	0.074	1M10D7W
5	3	QPSK	19.35	ERP	0.086	2M71G7D
		16QAM	18.74	ERP	0.075	2M70D7W
		64QAM	18.75	ERP	0.075	5M95D7W
5	5	QPSK	19.29	ERP	0.085	4M50G7D
		16QAM	18.90	ERP	0.078	4M50D7W
		64QAM	18.58	ERP	0.072	4M51D7W
5	10	QPSK	19.48	ERP	0.089	9M00G7D
		16QAM	18.90	ERP	0.078	8M97D7W
		64QAM	18.76	ERP	0.075	8M99D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
7	5	QPSK	23.92	EIRP	0.247	4M50G7D
		16QAM	22.97	EIRP	0.198	4M51D7W
		64QAM	23.06	EIRP	0.202	4M51D7W
7	10	QPSK	23.88	EIRP	0.244	9M00G7D
		16QAM	23.04	EIRP	0.201	8M96D7W
		64QAM	23.09	EIRP	0.204	8M98D7W
7	15	QPSK	23.86	EIRP	0.243	13M5G7D
		16QAM	23.08	EIRP	0.203	13M4D7W
		64QAM	23.04	EIRP	0.201	13M4D7W
7	20	QPSK	23.99	EIRP	0.251	17M9G7D
		16QAM	23.06	EIRP	0.202	18M0D7W
		64QAM	23.05	EIRP	0.202	18M0D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
12	1.4	QPSK	19.90	ERP	0.098	1M09G7D
		16QAM	19.21	ERP	0.083	1M10D7W
		64QAM	19.07	ERP	0.081	1M09D7W
12	3	QPSK	19.97	ERP	0.099	2M70G7D
		16QAM	19.28	ERP	0.085	2M70D7W
		64QAM	19.25	ERP	0.084	2M71D7W
12	5	QPSK	19.99	ERP	0.100	4M51G7D
		16QAM	19.26	ERP	0.084	4M50D7W
		64QAM	19.20	ERP	0.083	4M50D7W
12	10	QPSK	20.17	ERP	0.104	9M02G7D
		16QAM	19.36	ERP	0.086	8M98D7W
		64QAM	19.28	ERP	0.085	9M00D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
13	5	QPSK	20.00	ERP	0.100	4M51G7D
		16QAM	19.35	ERP	0.086	4M51D7W
		64QAM	19.20	ERP	0.083	4M51D7W
13	10	QPSK	20.10	ERP	0.102	8M99G7D
		16QAM	19.33	ERP	0.086	8M95D7W
		64QAM	19.18	ERP	0.083	8M97D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
14	5	QPSK	20.10	ERP	0.102	4M50G7D
		16QAM	19.46	ERP	0.088	4M50D7W
		64QAM	19.21	ERP	0.083	4M51D7W
14	10	QPSK	20.13	ERP	0.103	8M98G7D
		16QAM	19.54	ERP	0.090	8M93D7W
		64QAM	19.31	ERP	0.085	8M97D7W

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
25	1.4	QPSK	25.12	EIRP	0.325	1M09G7D
		16QAM	24.10	EIRP	0.257	1M10D7W
		64QAM	24.07	EIRP	0.255	1M10D7W
25	3	QPSK	25.04	EIRP	0.319	2M71G7D
		16QAM	24.24	EIRP	0.265	2M70D7W
		64QAM	23.96	EIRP	0.249	2M70D7W
25	5	QPSK	25.03	EIRP	0.318	4M50G7D
		16QAM	24.19	EIRP	0.262	4M50D7W
		64QAM	24.05	EIRP	0.254	4M51D7W
25	10	QPSK	25.18	EIRP	0.330	9M00G7D
		16QAM	24.22	EIRP	0.264	8M96D7W
		64QAM	23.95	EIRP	0.248	8M99D7W
25	15	QPSK	25.18	EIRP	0.330	13M5G7D
		16QAM	24.17	EIRP	0.261	13M5D7W
		64QAM	24.15	EIRP	0.260	13M4D7W
25	20	QPSK	25.19	EIRP	0.330	17M9G7D
		16QAM	24.37	EIRP	0.274	18M0D7W
		64QAM	24.20	EIRP	0.263	17M9D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
26	1.4	QPSK	19.23	ERP	0.084	1M10G7D
		16QAM	18.77	ERP	0.075	1M10D7W
		64QAM	18.73	ERP	0.075	1M10D7W
26	3	QPSK	19.33	ERP	0.086	2M70G7D
		16QAM	18.74	ERP	0.075	2M71D7W
		64QAM	18.86	ERP	0.077	2M71D7W
26	5	QPSK	19.29	ERP	0.085	4M50G7D
		16QAM	18.68	ERP	0.074	4M51D7W
		64QAM	18.84	ERP	0.077	4M51D7W
26	10	QPSK	19.33	ERP	0.086	9M01G7D
		16QAM	18.82	ERP	0.076	8M96D7W
		64QAM	18.76	ERP	0.075	8M98D7W
26	15	QPSK	19.40	ERP	0.087	13M5G7D
		16QAM	18.96	ERP	0.079	13M5D7W
		64QAM	18.89	ERP	0.077	13M4D7W

LTE Band	BW	Modulation	Conducted (dBm)		(W)	Type of Emission
26 Part 90	1.4	QPSK	24.03		0.253	1M09G7D
		16QAM	23.36		0.217	1M10D7W
		64QAM	22.25		0.168	1M09D7W
26 Part 90	3	QPSK	24.10		0.257	2M70G7D
		16QAM	23.43		0.220	2M70D7W
		64QAM	22.36		0.172	2M71D7W
26 Part 90	5	QPSK	24.07		0.255	4M50G7D
		16QAM	23.48		0.223	4M50D7W
		64QAM	22.36		0.172	4M51D7W
26 Part 90	10	QPSK	24.12		0.258	8M99G7D
		16QAM	23.15		0.207	8M94D7W
		64QAM	22.13		0.163	8M97D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
30	5	QPSK	23.81	EIRP	0.240	4M50G7D
		16QAM	22.82	EIRP	0.191	4M50D7W
		64QAM	22.71	EIRP	0.187	4M50D7W
30	10	QPSK	23.39	EIRP	0.218	9M01G7D
		16QAM	22.84	EIRP	0.192	8M96D7W
		64QAM	22.90	EIRP	0.195	8M99D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
38	5	QPSK	24.57	EIRP	0.286	4M50G7D
		16QAM	23.65	EIRP	0.232	4M51D7W
		64QAM	23.53	EIRP	0.225	4M51D7W
38	10	QPSK	24.57	EIRP	0.286	8M97G7D
		16QAM	23.69	EIRP	0.234	8M96D7W
		64QAM	23.54	EIRP	0.226	8M98D7W
38	15	QPSK	24.58	EIRP	0.287	13M5G7D
		16QAM	23.72	EIRP	0.236	13M5D7W
		64QAM	23.50	EIRP	0.224	13M4D7W
38	20	QPSK	24.59	EIRP	0.288	18M2G7D
		16QAM	23.75	EIRP	0.237	17M9D7W
		64QAM	23.67	EIRP	0.233	17M9D7W

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
41	5	QPSK	25.25	EIRP	0.335	4M51G7D
		16QAM	24.77	EIRP	0.300	4M51D7W
		64QAM	24.68	EIRP	0.294	4M51D7W
41	10	QPSK	25.27	EIRP	0.337	8M98G7D
		16QAM	24.78	EIRP	0.301	8M97D7W
		64QAM	24.72	EIRP	0.296	8M98D7W
41	15	QPSK	25.28	EIRP	0.337	13M5G7D
		16QAM	24.77	EIRP	0.300	13M5D7W
		64QAM	24.76	EIRP	0.299	13M4D7W
41	20	QPSK	25.29	EIRP	0.338	18M0G7D
		16QAM	24.78	EIRP	0.301	17M9D7W
		64QAM	24.79	EIRP	0.301	17M9D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
66	1.4	QPSK	26.88	EIRP	0.488	1M10G7D
		16QAM	25.89	EIRP	0.388	1M10D7W
		64QAM	25.86	EIRP	0.385	1M10D7W
66	3	QPSK	26.76	EIRP	0.474	2M70G7D
		16QAM	25.84	EIRP	0.384	2M70D7W
		64QAM	25.83	EIRP	0.383	2M71D7W
66	5	QPSK	26.77	EIRP	0.475	4M50G7D
		16QAM	25.84	EIRP	0.384	4M50D7W
		64QAM	25.88	EIRP	0.387	4M51D7W
66	10	QPSK	26.85	EIRP	0.484	9M01G7D
		16QAM	25.89	EIRP	0.388	8M96D7W
		64QAM	25.89	EIRP	0.388	8M99D7W
66	15	QPSK	26.83	EIRP	0.482	13M5G7D
		16QAM	25.86	EIRP	0.385	13M5D7W
		64QAM	25.89	EIRP	0.388	13M5D7W
66	20	QPSK	26.89	EIRP	0.489	18M0G7D
		16QAM	25.87	EIRP	0.386	18M0D7W
		64QAM	25.89	EIRP	0.388	18M0D7W

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1.6. Test Methodology of Applied Standards

CC 47 CFR Part 2, 22H, 24E, 27C, Part 90S.

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.

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

RSS Gen Issue 5 Mar. 2019

RSS-130-issue 2 Feb. 2019, RSS-132 Issue 3 Jan. 2013,

RSS-133 Issue 6 Jan. 2018, RSS-139 Issue 3 Jul. 2015,

RSS-140 Issue 1 Apr. 2018, RSS-195 Issue 2 Apr. 2014.

RSS-199 Issue 3 Dec. 2016

Note: All test items have been performed and record as per the above standards.

1.7. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: TW0002

Canada Registration Number: 4620E-1

1.8. Special Accessories

AC Adapter is used while the test is conducted and there is no other accessory attached. This is the worst case condition.

1.9. Equipment Modifications

There were no modifications incorporated into the EUT.

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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

According to measurement procured ANSI C63.26-2015, the EUT is placed on a turn table which is 0.8m 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

According to measurement procured ANSI C63.26-2015, The EUT is a placed on as 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.

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Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation in physical test.

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

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	7.66	0.422
WCDMA B5		0.409
LTE Band 2		0.427
LTE Band 4		0.437
LTE Band 5		0.439
LTE Band 7		0.429
LTE Band 12		0.408
LTE Band 13		0.418
LTE Band 14		0.415
LTE Band 25		0.443
LTE Band 26		0.438
LTE Band 26 (Part 90S)		0.437
LTE Band 30		0.434
LTE Band 38		0.438
LTE Band 41		0.429
LTE Band 66		0.435

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2.6. Configuration of Tested System

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

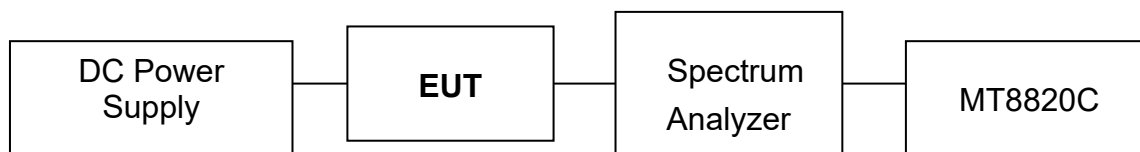


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

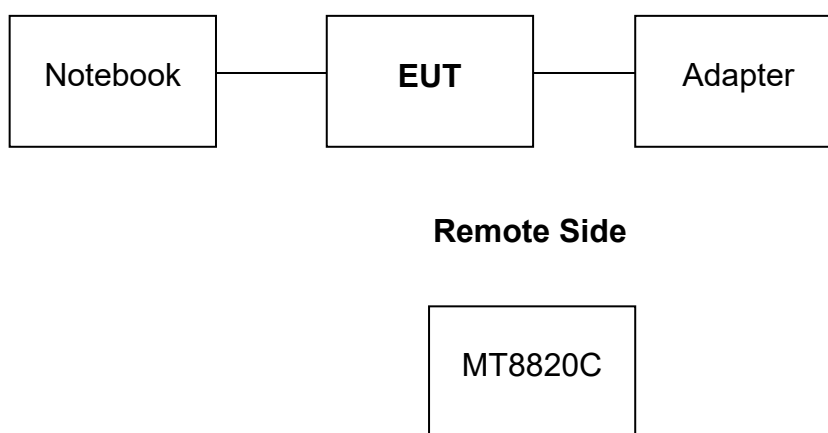


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyer	Anritsu	MT8820C	6201107337	shielded	Un-shielded
2.	DC Power Supply	Agilent	E3640A	MY53140006	shielded	Un-shielded
3.	Notebook	Lenovo	L440	P0000367	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
§2.1046(a) §22.913(a)(5) §24.232(c) §27.50(a)(3) §27.50(b)(9) §27.50(b)(10) §27.50(c)(9) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.635 §90.542(a) (6) §90.542(a) (7)	RSS-130 §4.6 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.5 RSS-140 §4.3 RSS-195 §5.5 RSS-199 §4.4	ERP/ EIRP measurement	Compliant
§2.1049(h)	RSS-GEN §6.7	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §22.917(b) §24.238(a) §27.53(g) §27.53(c) §27.53(h) §27.53(m) §90.543(e)(2)(3) §90.691	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-140 §4.4 RSS-195 §5.6 RSS-199 §4.5	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(a) §27.53(c) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(2) §90.691 §90.543(e)(3) §90.543 (f)	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-140 §4.4 RSS-195 §5.6 RSS-199 §4.5	Field Strength of Spurious Radiation	Compliant
§27.53(f)	RSS-130 §4.6	Spurious emission in 1559 -1610MHz Band	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	RSS-130 §4.6.1 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.4 RSS-140 §4.3 RSS-195 §5.5 RSS-199 §4.4	Peak to Average Ratio	Compliant
§2.1055(1) §22.355 §24.235 §27.54 §90.213 §90.539 (e)	RSS-130 §4.5 RSS-132 §5.3 RSS-133 §6.3 RSS-139 §6.5 RSS-140 §4.2 RSS-195 §5.4 RSS-199 §4.3	Frequency Stability	Compliant

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates. EUT set to at the channel with highest output power to investigated spurious emission with stand-up position (H, E1 mode) and lie down position (E2 mode) axis and antenna ports as worst-case scenario. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	RADIATED EMISSION
WCDMA/HSPA Band II	E2 Mode
WCDMA/HSPA Band V	E2 Mode
LTE Band 2	E2 Mode
LTE Band 4	E2 Mode
LTE Band 5	E2 Mode
LTE Band 7	E2 Mode
LTE Band 12	E2 Mode
LTE Band 13	E2 Mode
LTE Band 14	E2 Mode
LTE Band 25	E2 Mode
LTE Band 26	E2 Mode
LTE Band 26 (Part 90S)	E2 Mode
LTE Band 30	E2 Mode
LTE Bnad 38	E2 Mode
LTE Band 41	E2 Mode
LTE Band 66	E2 Mode

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WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP / EIRP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538	9262, 9400, 9538	WCDMA/HSPA Band II
FREQUENCY STABILITY	4132 to 4233 9262 to 9538	4183 9400	WCDMA Band II WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA/HSPA Band II WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA/HSPA Band II WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 9262 to 9538	4132, 4233 9262, 9538	WCDMA Band II WCDMA Band V
CONDUCTED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA Band II WCDMA Band V
RADIATED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA Band II WCDMA Band V

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LTE Band 2 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STA-BILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	16QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDUCTED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB, 99 RB Offest

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LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STA-BILITY	20000 to 20350	20175	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	16QAM	Full RB
BAND EDGE	19957 to 19393	19957, 19393	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDUCTED EMISSION	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK,	1 RB, 0 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK,	1 RB, 0 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK,	1 RB, 0 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 0 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK,	1 RB, 0 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20050 to 20300	20050, 20175, 20300	20MHz	QPSK,	1 RB, 0 RB Offest

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP / EIRP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STA-BILITY	20450 to 20600	20525	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	16QAM	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDUCTED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	16QAM	Full RB
BAND EDGE	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDUCTED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 0 RB Offest
EMISSION MASK	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 12 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP / EIRP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	16QAM	Full RB
BAND EDGE	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDUCTED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23035 to 23155	23035, 23095, 23155	10MHz	QPSK	1 RB, 49 RB Offest

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LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP / EIRP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
FREQUENCY STABILITY	23230	23230	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB
	23230	23230	10MHz	16QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	23230	23230	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
CONDUCTED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offset
	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	23205 to 23255	23230	10MHz	QPSK	1 RB/ 49 RB Offset

LTE Band 14 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23305 to 23355	23305,23330,23355	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offset
	23330	23330	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offset
FREQUENCY STABILITY	23330	23330	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23305 to 23355	23305,23330,23355	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23330	23330	10MHz	QPSK, 16QAM, 64QAM	Full RB
EMISSION MASK	23305 to 23355	23305, 23355	5MHz	QPSK	1 RB/ 0,24 RB Offset Full RB
	23330	23330	10MHz	QPSK	1 RB/ 0,49 RB Offset Full RB
CONDUCTED EMISSION	23305 to 23355	23305,23330,23355	5MHz	QPSK	1 RB, 0 RB Offset
	23330	23330	10MHz	QPSK	1 RB, 0 RB Offset
EMISSION MASK	23305 to 23355	23305,23330,23355	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	23330	23330	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
RADIATED EMISSION	23330	23330	10MHz	QPSK	1 RB, 0 RB Offset

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LTE Band 25 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STA-BILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	Full RB
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	26047 to 26683	26047, 26365, 26683	1.4MHz	16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	16QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	16QAM	Full RB
	26090 to 26640	26090, 26365, 26640	10MHz	16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	16QAM	Full RB
BAND EDGE	26047 to 26683	26047, 26683	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26055 to 26675	26055, 26675	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26065 to 26665	26065, 26665	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26090 to 26640	26090, 26640	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26115 to 26615	26115, 26615	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	26140 to 26590	26140, 26590	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDUCTED EMISSION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK,	1 RB, 0 RB Offest
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK,	1 RB, 0 RB Offest
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK,	1 RB, 0 RB Offest
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK,	1 RB, 0 RB Offest
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	26090 to 26640	26090, 26365, 26640	20MHz	QPSK,	1 RB, 0 RB Offest

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LTE Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP / EIRP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
FREQUENCY STA-BILITY	26865 to 26965	26915	15MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	26797 to 27033	26797, 26915, 27033	1.4MHz	16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	16QAM	Full RB
BAND EDGE	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB/ 0,74 RB Offest
CONDUCTED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB, 0 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB, 0 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB, 0 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26865 to 26965	26865, 26915, 26965	15MHz	QPSK,	1 RB, 36 RB Offest

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LTE Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP / EIRP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offset
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	26740	26740	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
FREQUENCY STABILITY	26697 to 26783	26740	1.4MHz	QPSK,	Full RB
OCCUPIED BAND WIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	16QAM	Full RB
	26740	26740	10MHz	16QAM	Full RB
BAND EDGE	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	26740	26740	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
CONDUCTED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB, 0 RB Offset
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 0 RB Offset
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 0 RB Offset
	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	26697 to 26783	26697, 26740, 26783	3MHz	QPSK,	1 RB, 0 RB Offset
EMISSION MASK	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB/ 0,5 RB Offset 6 RB/ 0 Offset
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,14 RB Offset 15 RB/ 0 Offset
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,24 RB Offset 25 RB/ 0 Offset
	26740	26740	10MHz	QPSK,	1 RB/ 0,49 RB Offset 50 RB/ 0 Offset

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LTE Band 30 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	27710	27710	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
EIRP Power Density	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	1 RB/ 0 RB Offest
	27710	27710	10MHz	QPSK, 16QAM	1 RB/ 0 RB Offest
FREQUENCY STABILITY	27710	27710	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	Full RB
	27710	27710	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	Full RB
	27710	27710	10MHz	16QAM	Full RB
BAND EDGE	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	27710	27710	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDUCTED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB, 0 RB Offest
	27710	27710	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	27685 to 27735	27710	10MHz	QPSK	1 RB/ 0 RB Offest
EMISSION MASK	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	27710	27710	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset

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LTE Band 38 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	37775 to 38225	37775, 38000, 38225	5MHz	16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	16QAM	Full RB
BAND EDGE	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDUCTED EMISSION	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB, 0 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB, 0 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB, 0 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	37825 to 38175	37825 , 38000, 38175	20MHz	QPSK	1 RB, 0 RB Offest
EMISSION MASK	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 41 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	39675 to 41565	39675, 40620, 41565	5MHz	16QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	16QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	16QAM	Full RB
BAND EDGE	39675 to 41565	39675, 41565	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	39700 to 41540	39700, 41540	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
	39725 to 41515	39725, 41515	15MHz	QPSK,	1 RB/ 0,74 RB Offset Full RB
	39750 to 41490	39750, 41490	20MHz	QPSK,	1 RB/ 0,99 RB Offset Full RB
CONDUCTED EMISSION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB, 0 RB Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB, 0 RB Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB, 0 RB Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB, 0 RB Offset
EMISSION MASK	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB/ 0,24 RB Offset 25 RB/ 0 Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB/ 0,49 RB Offset 50 RB/ 0 Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB/ 0,74 RB Offset 75 RB/ 0 Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB/ 0,99 RB Offset 100 RB/ 0 Offset
RADIATED EMISSION	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB, 0 RB Offset

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LTE Band 66 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STA-BILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	131979 to 132665	131979, 132322, 132665	1.4MHz	16QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	16QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	16QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	16QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	16QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	16QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDUCTED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB, 0 RB Offest

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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

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6. MAXMUM OUTPUT POWER

6.1. Standard Applicable

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

ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 24.232(b) Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(a)(3) Mobile and portable stations (hand-held devices) are limited to 250 mW/ 5MHz EIRP.

FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W EIRP

FCC 90.542(a)

(6) Control stations and mobile stations transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 30 watts ERP.

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

FCC 90.635(b) Mobile station is limited to 100W ERP

According to RSS-130 §4.4

It shall not exceed 5 W for portable equipment or for indoor fixed subscriber equipment.

According to RSS-132, section 5.4.

The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment shall not exceed 11.5 watts.

According to RSS-133 §6.4

The peak e.i.r.p. for transmitters operating in the band 1850-1910 MHz shall not exceed the limits 2W given in SRSP-510.

According to RSS 139 §6.4

The average equivalent isotropically radiated power (e.i.r.p.) for fixed, mobile and portable transmitters in the 1710-1755 MHz shall not exceed 1 watt.

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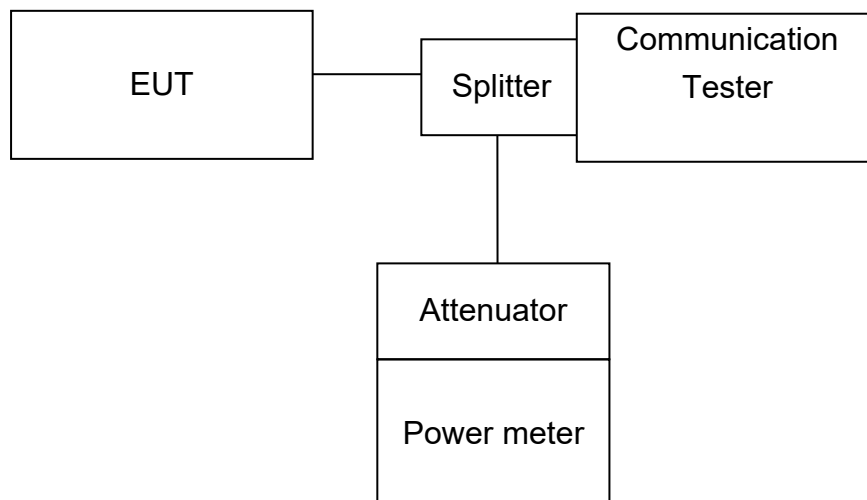
According to RSS-140 §4.3

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

According to RSS-199 §4.4

For mobile subscriber equipment, the e.i.r.p. shall not exceed 2 watts.

6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

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6.3. Measurement Procedure

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, (WCD-MA/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.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP.

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TEST PROCEDURE:

ANSI C63.26:2015

KDB 971168 Section 5.6

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT-LC}$$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.2

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

6.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY5314000 6	05/31/2019	05/30/2020
Radio Communication Analyser	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020

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6.5. Measurement Result

RF Conducted Output Power

WCDMA MODE:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1/-1). RMC 12.2kps is used for this testing.

Results:

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	24.33	0.70	22.88	25.03	33.00	-7.97
	1880.0	9400	24.31	0.70	22.86	25.01	33.00	-7.99
	1907.6	9538	24.32	0.70	22.87	25.02	33.00	-7.98
HSDPA	1852.4	9262	23.32	0.70	21.87	24.02	33.00	-8.98
	1880.0	9400	23.28	0.70	21.83	23.98	33.00	-9.02
	1907.6	9538	23.38	0.70	21.93	24.08	33.00	-8.92
HSUPA	1852.4	9262	23.18	0.70	21.73	23.88	33.00	-9.12
	1880.0	9400	23.27	0.70	21.82	23.97	33.00	-9.03
	1907.6	9538	23.37	0.70	21.92	24.07	33.00	-8.93

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	24.21	-2.50	19.56	21.71	38.50	-16.79
	836.6	4183	24.13	-2.50	19.48	21.63	38.50	-16.87
	846.6	4233	24.08	-2.50	19.43	21.58	38.50	-16.92
HSDPA	826.4	4132	23.24	-2.50	18.59	20.74	38.50	-17.76
	836.6	4183	23.10	-2.50	18.45	20.60	38.50	-17.90
	846.6	4233	23.13	-2.50	18.48	20.63	38.50	-17.87
HSUPA	826.4	4132	23.23	-2.50	18.58	20.73	38.50	-17.77
	836.6	4183	23.16	-2.50	18.51	20.66	38.50	-17.84
	846.6	4233	23.20	-2.50	18.55	20.70	38.50	-17.80

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HSDPA Release 6 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 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 V8.4.0. RMC 12.2kps is used for this testing.

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		
		9262.00	9400.00	9538.00
HSDPA II	1	23.32	23.28	23.38
	2	22.79	22.84	22.80
	3	22.81	22.83	22.85
	4	22.80	22.72	22.81

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSDPA V	1	23.24	23.10	23.13
	2	22.74	22.58	22.66
	3	22.67	22.55	22.65
	4	22.67	22.58	22.62

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HSPA (HSDPA & HSUPA) Release 6 MODE

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 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 C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

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	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		
		9262.00	9400.00	9538.00
HSUPA II	1	23.18	23.27	23.37
	2	21.21	21.27	21.23
	3	22.17	22.24	22.25
	4	21.24	21.24	21.32
	5	23.03	23.15	23.11

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSUPA V	1	23.23	23.16	23.20
	2	21.22	21.12	21.16
	3	22.09	22.14	22.15
	4	21.19	21.13	21.12
	5	23.22	23.07	22.96

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WCDMA/HSDPA/HSUPA band II, V

The EUT output power was controlled by simulator. Set Communication Tester MT8820C function key "UE Power Control" and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). 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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LTE Result:

Antenna gain (dBi) 0.7

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	24.05	24.75	33	-8.25
				1	5	23.84	24.54	33	-8.46
				3	2	22.82	23.52	33	-9.48
				6	0	22.20	22.90	33	-10.1
	18900	1880	QPSK	1	0	24.09	24.79	33	-8.21
				1	5	23.86	24.56	33	-8.44
				3	2	22.97	23.67	33	-9.33
				6	0	22.32	23.02	33	-9.98
	19193	1909.3	QPSK	1	0	24.11	24.81	33	-8.19
				1	5	24.31	25.01	33	-7.99
				3	2	23.05	23.75	33	-9.25
				6	0	22.71	23.41	33	-9.59
	18607	1850.7	16QAM	1	0	23.44	24.14	33	-8.86
				1	5	23.06	23.76	33	-9.24
				3	2	22.12	22.82	33	-10.18
				6	0	21.13	21.83	33	-11.17
	18900	1880	16QAM	1	0	23.28	23.98	33	-9.02
				1	5	23.16	23.86	33	-9.14
				3	2	21.88	22.58	33	-10.42
				6	0	21.38	22.08	33	-10.92
	19193	1909.3	16QAM	1	0	23.75	24.45	33	-8.55
				1	5	23.12	23.82	33	-9.18
				3	2	22.23	22.93	33	-10.07
				6	0	21.59	22.29	33	-10.71
	18607	1850.7	64QAM	1	0	23.16	23.86	33	-9.14
				1	5	23.01	23.71	33	-9.29
				3	2	21.91	22.61	33	-10.39
				6	0	21.25	21.95	33	-11.05
	18900	1880	64QAM	1	0	23.07	23.77	33	-9.23
				1	5	23.28	23.98	33	-9.02
				3	2	21.75	22.45	33	-10.55
				6	0	21.28	21.98	33	-11.02
	19193	1909.3	64QAM	1	0	23.63	24.33	33	-8.67
				1	5	23.06	23.76	33	-9.24
				3	2	22.22	22.92	33	-10.08
				6	0	21.27	21.97	33	-11.03

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Antenna gain (dBi) 0.7

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	24.05	24.75	33	-8.25
				1	14	23.86	24.56	33	-8.44
				8	4	22.87	23.57	33	-9.43
				15	0	22.37	23.07	33	-9.93
	18900	1880	QPSK	1	0	23.83	24.53	33	-8.47
				1	14	23.85	24.55	33	-8.45
				8	4	22.83	23.53	33	-9.47
				15	0	22.48	23.18	33	-9.82
	19185	1908.5	QPSK	1	0	24.05	24.75	33	-8.25
				1	14	24.11	24.81	33	-8.19
				8	4	23.24	23.94	33	-9.06
				15	0	22.57	23.27	33	-9.73
	18615	1851.5	16QAM	1	0	23.20	23.90	33	-9.1
				1	14	22.81	23.51	33	-9.49
				8	4	21.91	22.61	33	-10.39
				15	0	21.39	22.09	33	-10.91
	18900	1880	16QAM	1	0	23.22	23.92	33	-9.08
				1	14	23.23	23.93	33	-9.07
				8	4	22.04	22.74	33	-10.26
				15	0	21.31	22.01	33	-10.99
	19185	1908.5	16QAM	1	0	23.55	24.25	33	-8.75
				1	14	23.24	23.94	33	-9.06
				8	4	22.12	22.82	33	-10.18
				15	0	21.64	22.34	33	-10.66
	18615	1851.5	64QAM	1	0	23.31	24.01	33	-8.99
				1	14	22.84	23.54	33	-9.46
				8	4	22.10	22.80	33	-10.2
				15	0	21.11	21.81	33	-11.19
	18900	1880	64QAM	1	0	23.18	23.88	33	-9.12
				1	14	23.12	23.82	33	-9.18
				8	4	21.84	22.54	33	-10.46
				15	0	21.23	21.93	33	-11.07
	19185	1908.5	64QAM	1	0	23.50	24.20	33	-8.8
				1	14	23.32	24.02	33	-8.98
				8	4	22.23	22.93	33	-10.07
				15	0	21.29	21.99	33	-11.01

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Antenna gain (dBi) 0.7

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	23.99	24.69	33	-8.31
				1	24	23.85	24.55	33	-8.45
				12	6	22.79	23.49	33	-9.51
				25	0	22.33	23.03	33	-9.97
	18900	1880	QPSK	1	0	23.96	24.66	33	-8.34
				1	24	23.91	24.61	33	-8.39
				12	6	22.76	23.46	33	-9.54
				25	0	22.35	23.05	33	-9.95
	19175	1907.5	QPSK	1	0	23.99	24.69	33	-8.31
				1	24	24.10	24.80	33	-8.2
				12	6	23.18	23.88	33	-9.12
				25	0	22.51	23.21	33	-9.79
	18625	1852.5	16QAM	1	0	23.38	24.08	33	-8.92
				1	24	22.79	23.49	33	-9.51
				12	6	21.94	22.64	33	-10.36
				25	0	21.28	21.98	33	-11.02
	18900	1880	16QAM	1	0	23.06	23.76	33	-9.24
				1	24	23.25	23.95	33	-9.05
				12	6	21.99	22.69	33	-10.31
				25	0	21.30	22.00	33	-11
	19175	1907.5	16QAM	1	0	23.56	24.26	33	-8.74
				1	24	23.33	24.03	33	-8.97
				12	6	22.23	22.93	33	-10.07
				25	0	21.72	22.42	33	-10.58
	18625	1852.5	64QAM	1	0	23.39	24.09	33	-8.91
				1	24	22.95	23.65	33	-9.35
				12	6	21.85	22.55	33	-10.45
				25	0	21.29	21.99	33	-11.01
	18900	1880	64QAM	1	0	23.00	23.70	33	-9.3
				1	24	23.13	23.83	33	-9.17
				12	6	21.86	22.56	33	-10.44
				25	0	21.13	21.83	33	-11.17
	19175	1907.5	64QAM	1	0	23.69	24.39	33	-8.61
				1	24	23.14	23.84	33	-9.16
				12	6	22.00	22.70	33	-10.3
				25	0	21.47	22.17	33	-10.83

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Antenna gain (dBi) 0.7

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	24.05	24.75	33	-8.25
				1	49	24.04	24.74	33	-8.26
				25	12	22.75	23.45	33	-9.55
				50	0	22.26	22.96	33	-10.04
	18900	1880	QPSK	1	0	24.05	24.75	33	-8.25
				1	49	23.96	24.66	33	-8.34
				25	12	22.73	23.43	33	-9.57
				50	0	22.34	23.04	33	-9.96
	19150	1905	QPSK	1	0	24.08	24.78	33	-8.22
				1	49	24.37	25.07	33	-7.93
				25	12	23.05	23.75	33	-9.25
				50	0	22.71	23.41	33	-9.59
	18650	1855	16QAM	1	0	23.41	24.11	33	-8.89
				1	49	23.00	23.70	33	-9.3
				25	12	21.94	22.64	33	-10.36
				50	0	21.37	22.07	33	-10.93
	18900	1880	16QAM	1	0	23.04	23.74	33	-9.26
				1	49	23.28	23.98	33	-9.02
				25	12	21.86	22.56	33	-10.44
				50	0	21.41	22.11	33	-10.89
	19150	1905	16QAM	1	0	23.73	24.43	33	-8.57
				1	49	23.34	24.04	33	-8.96
				25	12	22.05	22.75	33	-10.25
				50	0	21.52	22.22	33	-10.78
	18650	1855	64QAM	1	0	23.28	23.98	33	-9.02
				1	49	22.86	23.56	33	-9.44
				25	12	21.95	22.65	33	-10.35
				50	0	21.20	21.90	33	-11.1
	18900	1880	64QAM	1	0	23.09	23.79	33	-9.21
				1	49	23.01	23.71	33	-9.29
				25	12	21.88	22.58	33	-10.42
				50	0	21.30	22.00	33	-11
	19150	1905	64QAM	1	0	23.60	24.30	33	-8.7
				1	49	23.06	23.76	33	-9.24
				25	12	22.10	22.80	33	-10.2
				50	0	21.45	22.15	33	-10.85

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Antenna gain (dBi) 0.7

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	23.93	24.63	33	-8.37
				1	74	23.96	24.66	33	-8.34
				36	18	22.99	23.69	33	-9.31
				75	0	22.30	23.00	33	-10
	18900	1880	QPSK	1	0	23.90	24.60	33	-8.4
				1	74	23.76	24.46	33	-8.54
				36	18	22.86	23.56	33	-9.44
				75	0	22.31	23.01	33	-9.99
	19125	1902.5	QPSK	1	0	24.06	24.76	33	-8.24
				1	74	24.36	25.06	33	-7.94
				36	18	23.15	23.85	33	-9.15
				75	0	22.79	23.49	33	-9.51
	18675	1857.5	16QAM	1	0	23.22	23.92	33	-9.08
				1	74	22.92	23.62	33	-9.38
				36	18	21.98	22.68	33	-10.32
				75	0	21.15	21.85	33	-11.15
	18900	1880	16QAM	1	0	23.13	23.83	33	-9.17
				1	74	23.07	23.77	33	-9.23
				36	18	22.00	22.70	33	-10.3
				75	0	21.42	22.12	33	-10.88
	19125	1902.5	16QAM	1	0	23.75	24.45	33	-8.55
				1	74	23.18	23.88	33	-9.12
				36	18	22.15	22.85	33	-10.15
				75	0	21.69	22.39	33	-10.61
	18675	1857.5	64QAM	1	0	23.28	23.98	33	-9.02
				1	74	23.03	23.73	33	-9.27
				36	18	21.99	22.69	33	-10.31
				75	0	21.13	21.83	33	-11.17
	18900	1880	64QAM	1	0	23.24	23.94	33	-9.06
				1	74	23.26	23.96	33	-9.04
				36	18	21.77	22.47	33	-10.53
				75	0	21.29	21.99	33	-11.01
	19125	1902.5	64QAM	1	0	23.61	24.31	33	-8.69
				1	74	23.17	23.87	33	-9.13
				36	18	22.13	22.83	33	-10.17
				75	0	21.51	22.21	33	-10.79

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Antenna gain (dBi) 0.7

LTE Band 2 Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	24.21	24.91	33	-8.09
				1	99	24.07	24.77	33	-8.23
				50	25	23.02	23.72	33	-9.28
				100	0	22.43	23.13	33	-9.87
	18900	1880	QPSK	1	0	24.11	24.81	33	-8.19
				1	99	23.98	24.68	33	-8.32
				50	25	23.00	23.70	33	-9.3
				100	0	22.99	23.69	33	-9.31
	19100	1900	QPSK	1	0	24.27	24.97	33	-8.03
				1	99	24.39	25.09	33	-7.91
				50	25	23.25	23.95	33	-9.05
				100	0	22.80	23.50	33	-9.5
	18700	1860	16QAM	1	0	23.49	24.19	33	-8.81
				1	99	23.07	23.77	33	-9.23
				50	25	22.14	22.84	33	-10.16
				100	0	21.39	22.09	33	-10.91
	18900	1880	16QAM	1	0	23.33	24.03	33	-8.97
				1	99	23.34	24.04	33	-8.96
				50	25	22.04	22.74	33	-10.26
				100	0	21.46	22.16	33	-10.84
	19100	1900	16QAM	1	0	23.82	24.52	33	-8.48
				1	99	23.36	24.06	33	-8.94
				50	25	22.27	22.97	33	-10.03
				100	0	21.79	22.49	33	-10.51
	18700	1860	64QAM	1	0	23.46	24.16	33	-8.844
				1	99	23.04	23.74	33	-9.264
				50	25	22.11	22.81	33	-10.194
				100	0	21.36	22.06	33	-10.944
	18900	1880	64QAM	1	0	23.30	24.00	33	-9.004
				1	99	23.31	24.01	33	-8.994
				50	25	22.01	22.71	33	-10.294
				100	0	21.43	22.13	33	-10.874
	19100	1900	64QAM	1	0	23.79	24.49	33	-8.514
				1	99	23.33	24.03	33	-8.974
				50	25	22.24	22.94	33	-10.064
				100	0	21.52	22.22	33	-10.78

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Antenna gain (dBi) 2.4

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	23.98	26.38	30	-3.62
				1	5	23.91	26.31	30	-3.69
				3	2	22.77	25.17	30	-4.83
				6	0	22.37	24.77	30	-5.23
	20175	1732.5	QPSK	1	0	23.94	26.34	30	-3.66
				1	5	23.43	25.83	30	-4.17
				3	2	22.96	25.36	30	-4.64
				6	0	22.48	24.88	30	-5.12
	20393	1754.3	QPSK	1	0	23.92	26.32	30	-3.68
				1	5	23.83	26.23	30	-3.77
				3	2	22.52	24.92	30	-5.08
				6	0	22.50	24.90	30	-5.1
	19957	1710.7	16QAM	1	0	22.24	24.64	30	-5.36
				1	5	23.19	25.59	30	-4.41
				3	2	22.14	24.54	30	-5.46
				6	0	21.46	23.86	30	-6.14
	20175	1732.5	16QAM	1	0	23.44	25.84	30	-4.16
				1	5	22.68	25.08	30	-4.92
				3	2	21.97	24.37	30	-5.63
				6	0	21.56	23.96	30	-6.04
	20393	1754.3	16QAM	1	0	23.09	25.49	30	-4.51
				1	5	22.91	25.31	30	-4.69
				3	2	21.37	23.77	30	-6.23
				6	0	21.47	23.87	30	-6.13
	19957	1710.7	64QAM	1	0	22.01	24.41	30	-5.59
				1	5	23.24	25.64	30	-4.36
				3	2	21.97	24.37	30	-5.63
				6	0	21.38	23.78	30	-6.22
	20175	1732.5	64QAM	1	0	23.16	25.56	30	-4.44
				1	5	22.63	25.03	30	-4.97
				3	2	21.85	24.25	30	-5.75
				6	0	21.36	23.76	30	-6.24
	20393	1754.3	64QAM	1	0	22.94	25.34	30	-4.66
				1	5	22.94	25.34	30	-4.66
				3	2	21.21	23.61	30	-6.39
				6	0	21.40	23.80	30	-6.2

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Antenna gain (dBi) 2.4

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	23.96	26.36	30	-3.64
				1	14	23.87	26.27	30	-3.73
				8	4	22.83	25.23	30	-4.77
				15	0	22.55	24.95	30	-5.05
	20175	1732.5	QPSK	1	0	23.95	26.35	30	-3.65
				1	14	23.57	25.97	30	-4.03
				8	4	23.00	25.40	30	-4.6
				15	0	22.58	24.98	30	-5.02
	20385	1753.5	QPSK	1	0	23.91	26.31	30	-3.69
				1	14	23.77	26.17	30	-3.83
				8	4	22.35	24.75	30	-5.25
				15	0	22.57	24.97	30	-5.03
	19965	1711.5	16QAM	1	0	21.98	24.38	30	-5.62
				1	14	23.34	25.74	30	-4.26
				8	4	22.13	24.53	30	-5.47
				15	0	21.51	23.91	30	-6.09
	20175	1732.5	16QAM	1	0	23.37	25.77	30	-4.23
				1	14	22.66	25.06	30	-4.94
				8	4	21.95	24.35	30	-5.65
				15	0	21.31	23.71	30	-6.29
	20385	1753.5	16QAM	1	0	23.27	25.67	30	-4.33
				1	14	22.90	25.30	30	-4.7
				8	4	21.36	23.76	30	-6.24
				15	0	21.36	23.76	30	-6.24
	19965	1711.5	64QAM	1	0	22.06	24.46	30	-5.54
				1	14	23.25	25.65	30	-4.35
				8	4	22.11	24.51	30	-5.49
				15	0	21.33	23.73	30	-6.27
	20175	1732.5	64QAM	1	0	23.35	25.75	30	-4.25
				1	14	22.62	25.02	30	-4.98
				8	4	21.89	24.29	30	-5.71
				15	0	21.35	23.75	30	-6.25
	20385	1753.5	64QAM	1	0	22.98	25.38	30	-4.62
				1	14	22.73	25.13	30	-4.87
				8	4	21.31	23.71	30	-6.29
				15	0	21.27	23.67	30	-6.33

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Antenna gain (dBi) 2.4

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	23.85	26.25	30	-3.75
				1	24	23.89	26.29	30	-3.71
				12	6	22.89	25.29	30	-4.71
				25	0	22.38	24.78	30	-5.22
	20175	1732.5	QPSK	1	0	23.95	26.35	30	-3.65
				1	24	23.38	25.78	30	-4.22
				12	6	23.04	25.44	30	-4.56
				25	0	22.62	25.02	30	-4.98
	20375	1752.5	QPSK	1	0	23.94	26.34	30	-3.66
				1	24	23.84	26.24	30	-3.76
				12	6	22.43	24.83	30	-5.17
				25	0	22.35	24.75	30	-5.25
	19975	1712.5	16QAM	1	0	22.05	24.45	30	-5.55
				1	24	23.21	25.61	30	-4.39
				12	6	22.18	24.58	30	-5.42
				25	0	21.29	23.69	30	-6.31
	20175	1732.5	16QAM	1	0	23.31	25.71	30	-4.29
				1	24	22.68	25.08	30	-4.92
				12	6	21.91	24.31	30	-5.69
				25	0	21.42	23.82	30	-6.18
	20375	1752.5	16QAM	1	0	23.07	25.47	30	-4.53
				1	24	22.82	25.22	30	-4.78
				12	6	21.39	23.79	30	-6.21
				25	0	21.27	23.67	30	-6.33
	19975	1712.5	64QAM	1	0	21.98	24.38	30	-5.62
				1	24	23.09	25.49	30	-4.51
				12	6	22.11	24.51	30	-5.49
				25	0	21.44	23.84	30	-6.16
	20175	1732.5	64QAM	1	0	23.29	25.69	30	-4.31
				1	24	22.71	25.11	30	-4.89
				12	6	21.83	24.23	30	-5.77
				25	0	21.22	23.62	30	-6.38
	20375	1752.5	64QAM	1	0	23.04	25.44	30	-4.56
				1	24	22.71	25.11	30	-4.89
				12	6	21.27	23.67	30	-6.33
				25	0	21.19	23.59	30	-6.41

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Antenna gain (dBi) 2.4

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	23.91	26.31	30	-3.69
				1	49	23.88	26.28	30	-3.72
				25	12	22.93	25.33	30	-4.67
				50	0	22.37	24.77	30	-5.23
	20175	1732.5	QPSK	1	0	23.96	26.36	30	-3.64
				1	49	23.40	25.80	30	-4.2
				25	12	23.03	25.43	30	-4.57
				50	0	22.59	24.99	30	-5.01
	20375	1750	QPSK	1	0	23.91	26.31	30	-3.69
				1	49	23.86	26.26	30	-3.74
				25	12	22.36	24.76	30	-5.24
				50	0	22.28	24.68	30	-5.32
	20000	1715	16QAM	1	0	22.15	24.55	30	-5.45
				1	49	23.41	25.81	30	-4.19
				25	12	22.04	24.44	30	-5.56
				50	0	21.46	23.86	30	-6.14
	20175	1732.5	16QAM	1	0	23.42	25.82	30	-4.18
				1	49	22.71	25.11	30	-4.89
				25	12	22.11	24.51	30	-5.49
				50	0	21.43	23.83	30	-6.17
	20375	1750	16QAM	1	0	23.18	25.58	30	-4.42
				1	49	23.05	25.45	30	-4.55
				25	12	21.36	23.76	30	-6.24
				50	0	21.54	23.94	30	-6.06
	20000	1715	64QAM	1	0	22.00	24.40	30	-5.6
				1	49	23.14	25.54	30	-4.46
				25	12	21.98	24.38	30	-5.62
				50	0	21.41	23.81	30	-6.19
	20175	1732.5	64QAM	1	0	23.20	25.60	30	-4.4
				1	49	22.76	25.16	30	-4.84
				25	12	22.01	24.41	30	-5.59
				50	0	21.16	23.56	30	-6.44
	20375	1750	64QAM	1	0	23.09	25.49	30	-4.51
				1	49	22.72	25.12	30	-4.88
				25	12	21.37	23.77	30	-6.23
				50	0	21.27	23.67	30	-6.33

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Antenna gain (dBi) 2.4

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	23.95	26.35	30	-3.65
				1	74	23.95	26.35	30	-3.65
				36	18	22.84	25.24	30	-4.76
				75	0	22.54	24.94	30	-5.06
	20175	1732.5	QPSK	1	0	23.95	26.35	30	-3.65
				1	74	23.62	26.02	30	-3.98
				36	18	22.98	25.38	30	-4.62
				75	0	22.47	24.87	30	-5.13
	20325	1747.5	QPSK	1	0	23.89	26.29	30	-3.71
				1	74	23.67	26.07	30	-3.93
				36	18	22.37	24.77	30	-5.23
				75	0	22.40	24.80	30	-5.2
	20025	1717.5	16QAM	1	0	22.17	24.57	30	-5.43
				1	74	23.37	25.77	30	-4.23
				36	18	22.21	24.61	30	-5.39
				75	0	21.52	23.92	30	-6.08
	20175	1732.5	16QAM	1	0	23.22	25.62	30	-4.38
				1	74	22.82	25.22	30	-4.78
				36	18	21.99	24.39	30	-5.61
				75	0	21.37	23.77	30	-6.23
	20325	1747.5	16QAM	1	0	23.02	25.42	30	-4.58
				1	74	23.00	25.40	30	-4.6
				36	18	21.43	23.83	30	-6.17
				75	0	21.41	23.81	30	-6.19
	20025	1717.5	64QAM	1	0	21.89	24.29	30	-5.71
				1	74	23.20	25.60	30	-4.4
				36	18	22.00	24.40	30	-5.6
				75	0	21.18	23.58	30	-6.42
	20175	1732.5	64QAM	1	0	23.28	25.68	30	-4.32
				1	74	22.61	25.01	30	-4.99
				36	18	21.78	24.18	30	-5.82
				75	0	21.35	23.75	30	-6.25
	20325	1747.5	64QAM	1	0	23.17	25.57	30	-4.43
				1	74	22.96	25.36	30	-4.64
				36	18	21.42	23.82	30	-6.18
				75	0	21.38	23.78	30	-6.22

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Antenna gain (dBi) 2.4

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	23.90	26.30	30	-3.7
				1	99	23.96	26.36	30	-3.64
				50	25	23.06	25.46	30	-4.54
				100	0	22.63	25.03	30	-4.97
	20175	1732.5	QPSK	1	0	23.95	26.35	30	-3.65
				1	99	23.65	26.05	30	-3.95
				50	25	23.12	25.52	30	-4.48
				100	0	22.64	25.04	30	-4.96
	20300	1745	QPSK	1	0	23.99	26.39	30	-3.61
				1	99	23.90	26.30	30	-3.7
				50	25	22.53	24.93	30	-5.07
				100	0	22.58	24.98	30	-5.02
	20050	1720	16QAM	1	0	22.28	24.68	30	-5.32
				1	99	23.41	25.81	30	-4.19
				50	25	22.26	24.66	30	-5.34
				100	0	21.58	23.98	30	-6.02
	20175	1732.5	16QAM	1	0	23.48	25.88	30	-4.12
				1	99	22.95	25.35	30	-4.65
				50	25	22.13	24.53	30	-5.47
				100	0	21.57	23.97	30	-6.03
	20300	1745	16QAM	1	0	23.28	25.68	30	-4.32
				1	99	23.10	25.50	30	-4.5
				50	25	21.59	23.99	30	-6.01
				100	0	21.54	23.94	30	-6.06
	20050	1720	64QAM	1	0	22.17	24.57	30	-5.43
				1	99	23.30	25.70	30	-4.3
				50	25	22.15	24.55	30	-5.45
				100	0	21.47	23.87	30	-6.13
	20175	1732.5	64QAM	1	0	23.37	25.77	30	-4.23
				1	99	22.84	25.24	30	-4.76
				50	25	22.02	24.42	30	-5.58
				100	0	21.46	23.86	30	-6.14
	20300	1745	64QAM	1	0	23.17	25.57	30	-4.43
				1	99	22.99	25.39	30	-4.61
				50	25	21.48	23.88	30	-6.12
				100	0	21.43	23.83	30	-6.17

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Antenna gain (dBi) -2.5

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	23.88	19.23	21.38	38.45	-17.07
				1	5	23.90	19.25	21.40	38.45	-17.05
				3	2	23.10	18.45	20.60	38.45	-17.85
				6	0	22.83	18.18	20.33	38.45	-18.12
	20525	836.5	QPSK	1	0	23.89	19.24	21.39	38.45	-17.06
				1	5	23.84	19.19	21.34	38.45	-17.11
				3	2	22.95	18.30	20.45	38.45	-18
				6	0	22.81	18.16	20.31	38.45	-18.14
	20643	848.3	QPSK	1	0	23.68	19.03	21.18	38.45	-17.27
				1	5	23.82	19.17	21.32	38.45	-17.13
				3	2	22.87	18.22	20.37	38.45	-18.08
				6	0	22.97	18.32	20.47	38.45	-17.98
	20407	824.7	16QAM	1	0	23.27	18.62	20.77	38.45	-17.68
				1	5	23.42	18.77	20.92	38.45	-17.53
				3	2	22.01	17.36	19.51	38.45	-18.94
				6	0	21.80	17.15	19.30	38.45	-19.15
	20525	836.5	16QAM	1	0	23.41	18.76	20.91	38.45	-17.54
				1	5	23.10	18.45	20.60	38.45	-17.85
				3	2	21.91	17.26	19.41	38.45	-19.04
				6	0	22.02	17.37	19.52	38.45	-18.93
	20643	848.3	16QAM	1	0	23.27	18.62	20.77	38.45	-17.68
				1	5	23.28	18.63	20.78	38.45	-17.67
				3	2	22.05	17.40	19.55	38.45	-18.9
				6	0	21.86	17.21	19.36	38.45	-19.09
	20407	824.7	64QAM	1	0	23.28	18.63	20.78	38.45	-17.67
				1	5	23.30	18.65	20.80	38.45	-17.65
				3	2	21.70	17.05	19.20	38.45	-19.25
				6	0	21.81	17.16	19.31	38.45	-19.14
	20525	836.5	64QAM	1	0	23.08	18.43	20.58	38.45	-17.87
				1	5	23.02	18.37	20.52	38.45	-17.93
				3	2	21.81	17.16	19.31	38.45	-19.14
				6	0	21.70	17.05	19.20	38.45	-19.25
	20643	848.3	64QAM	1	0	23.33	18.68	20.83	38.45	-17.62
				1	5	23.02	18.37	20.52	38.45	-17.93
				3	2	21.68	17.03	19.18	38.45	-19.27
				6	0	21.74	17.09	19.24	38.45	-19.21

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Antenna gain (dBi) -2.5

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	23.94	19.29	21.44	38.45	-17.01
				1	14	23.93	19.28	21.43	38.45	-17.02
				8	4	22.84	18.19	20.34	38.45	-18.11
				15	0	22.97	18.32	20.47	38.45	-17.98
	20525	836.5	QPSK	1	0	24.00	19.35	21.50	38.45	-16.95
				1	14	23.60	18.95	21.10	38.45	-17.35
				8	4	23.04	18.39	20.54	38.45	-17.91
				15	0	23.04	18.39	20.54	38.45	-17.91
	20635	847.5	QPSK	1	0	23.84	19.19	21.34	38.45	-17.11
				1	14	23.76	19.11	21.26	38.45	-17.19
				8	4	22.93	18.28	20.43	38.45	-18.02
				15	0	22.89	18.24	20.39	38.45	-18.06
	20415	825.5	16QAM	1	0	23.39	18.74	20.89	38.45	-17.56
				1	14	23.27	18.62	20.77	38.45	-17.68
				8	4	22.03	17.38	19.53	38.45	-18.92
				15	0	21.81	17.16	19.31	38.45	-19.14
	20525	836.5	16QAM	1	0	23.34	18.69	20.84	38.45	-17.61
				1	14	23.32	18.67	20.82	38.45	-17.63
				8	4	21.81	17.16	19.31	38.45	-19.14
				15	0	21.86	17.21	19.36	38.45	-19.09
	20635	847.5	16QAM	1	0	23.29	18.64	20.79	38.45	-17.66
				1	14	23.16	18.51	20.66	38.45	-17.79
				8	4	22.03	17.38	19.53	38.45	-18.92
				15	0	21.98	17.33	19.48	38.45	-18.97
	20415	825.5	64QAM	1	0	23.40	18.75	20.90	38.45	-17.55
				1	14	23.31	18.66	20.81	38.45	-17.64
				8	4	21.92	17.27	19.42	38.45	-19.03
				15	0	21.87	17.22	19.37	38.45	-19.08
	20525	836.5	64QAM	1	0	23.26	18.61	20.76	38.45	-17.69
				1	14	23.07	18.42	20.57	38.45	-17.88
				8	4	21.70	17.05	19.20	38.45	-19.25
				15	0	21.66	17.01	19.16	38.45	-19.29
	20635	847.5	64QAM	1	0	23.20	18.55	20.70	38.45	-17.75
				1	14	23.05	18.40	20.55	38.45	-17.9
				8	4	21.80	17.15	19.30	38.45	-19.15
				15	0	21.83	17.18	19.33	38.45	-19.12

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Antenna gain (dBi) -2.5

LTE Band 5 Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	23.94	19.29	21.44	38.45	-17.01
				1	24	23.85	19.20	21.35	38.45	-17.1
				12	6	22.94	18.29	20.44	38.45	-18.01
				25	0	22.95	18.30	20.45	38.45	-18
	20525	836.5	QPSK	1	0	23.92	19.27	21.42	38.45	-17.03
				1	24	23.84	19.19	21.34	38.45	-17.11
				12	6	22.78	18.13	20.28	38.45	-18.17
				25	0	23.07	18.42	20.57	38.45	-17.88
	20625	846.5	QPSK	1	0	23.70	19.05	21.20	38.45	-17.25
				1	24	23.72	19.07	21.22	38.45	-17.23
				12	6	22.76	18.11	20.26	38.45	-18.19
				25	0	23.02	18.37	20.52	38.45	-17.93
	20425	826.5	16QAM	1	0	23.48	18.83	20.98	38.45	-17.47
				1	24	23.38	18.73	20.88	38.45	-17.57
				12	6	21.89	17.24	19.39	38.45	-19.06
				25	0	22.02	17.37	19.52	38.45	-18.93
	20525	836.5	16QAM	1	0	23.55	18.90	21.05	38.45	-17.4
				1	24	23.22	18.57	20.72	38.45	-17.73
				12	6	21.89	17.24	19.39	38.45	-19.06
				25	0	21.88	17.23	19.38	38.45	-19.07
	20625	846.5	16QAM	1	0	23.37	18.72	20.87	38.45	-17.58
				1	24	23.31	18.66	20.81	38.45	-17.64
				12	6	22.02	17.37	19.52	38.45	-18.93
				25	0	21.73	17.08	19.23	38.45	-19.22
	20425	826.5	64QAM	1	0	23.14	18.49	20.64	38.45	-17.81
				1	24	23.06	18.41	20.56	38.45	-17.89
				12	6	21.79	17.14	19.29	38.45	-19.16
				25	0	21.87	17.22	19.37	38.45	-19.08
	20525	836.5	64QAM	1	0	23.23	18.58	20.73	38.45	-17.72
				1	24	23.17	18.52	20.67	38.45	-17.78
				12	6	21.80	17.15	19.30	38.45	-19.15
				25	0	21.79	17.14	19.29	38.45	-19.16
	20625	846.5	64QAM	1	0	23.15	18.50	20.65	38.45	-17.8
				1	24	23.00	18.35	20.50	38.45	-17.95
				12	6	21.86	17.21	19.36	38.45	-19.09
				25	0	21.65	17.00	19.15	38.45	-19.3

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Antenna gain (dBi) -2.5

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	24.13	19.48	21.63	38.45	-16.82
				1	49	24.02	19.37	21.52	38.45	-16.93
				25	12	23.13	18.48	20.63	38.45	-17.82
				50	0	23.08	18.43	20.58	38.45	-17.87
	20525	836.5	QPSK	1	0	24.04	19.39	21.54	38.45	-16.91
				1	49	23.86	19.21	21.36	38.45	-17.09
				25	12	23.07	18.42	20.57	38.45	-17.88
				50	0	23.07	18.42	20.57	38.45	-17.88
	20600	844	QPSK	1	0	23.93	19.28	21.43	38.45	-17.02
				1	49	23.88	19.23	21.38	38.45	-17.07
				25	12	23.03	18.38	20.53	38.45	-17.92
				50	0	23.06	18.41	20.56	38.45	-17.89
	20450	829	16QAM	1	0	23.55	18.90	21.05	38.45	-17.4
				1	49	23.50	18.85	21.00	38.45	-17.45
				25	12	22.10	17.45	19.60	38.45	-18.85
				50	0	22.09	17.44	19.59	38.45	-18.86
	20525	836.5	16QAM	1	0	23.55	18.90	21.05	38.45	-17.4
				1	49	23.38	18.73	20.88	38.45	-17.57
				25	12	22.01	17.36	19.51	38.45	-18.94
				50	0	22.04	17.39	19.54	38.45	-18.91
	20600	844	16QAM	1	0	23.49	18.84	20.99	38.45	-17.46
				1	49	23.33	18.68	20.83	38.45	-17.62
				25	12	22.09	17.44	19.59	38.45	-18.86
				50	0	22.02	17.37	19.52	38.45	-18.93
	20450	829	64QAM	1	0	23.41	18.76	20.91	38.45	-17.54
				1	49	23.36	18.71	20.86	38.45	-17.59
				25	12	21.96	17.31	19.46	38.45	-18.99
				50	0	21.95	17.30	19.45	38.45	-19
	20525	836.5	64QAM	1	0	23.36	18.71	20.86	38.45	-17.59
				1	49	23.24	18.59	20.74	38.45	-17.71
				25	12	21.87	17.22	19.37	38.45	-19.08
				50	0	21.90	17.25	19.40	38.45	-19.05
	20600	844	64QAM	1	0	23.35	18.70	20.85	38.45	-17.6
				1	49	23.19	18.54	20.69	38.45	-17.76
				25	12	21.95	17.30	19.45	38.45	-19
				50	0	21.88	17.23	19.38	38.45	-19.07

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Antenna gain (dBi) 1.3

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20775	2502.5	QPSK	1	0	22.44	23.74	33	-9.26
				1	24	22.25	23.55	33	-9.45
				12	6	21.36	22.66	33	-10.34
				25	0	21.17	22.47	33	-10.53
	21100	2535	QPSK	1	0	22.62	23.92	33	-9.08
				1	24	22.41	23.71	33	-9.29
				12	6	21.26	22.56	33	-10.44
				25	0	21.34	22.64	33	-10.36
	21375	2567.5	QPSK	1	0	22.49	23.79	33	-9.21
				1	24	22.48	23.78	33	-9.22
				12	6	21.48	22.78	33	-10.22
				25	0	21.43	22.73	33	-10.27
	20775	2502.5	16QAM	1	0	21.50	22.80	33	-10.2
				1	24	21.67	22.97	33	-10.03
				12	6	20.24	21.54	33	-11.46
				25	0	20.19	21.49	33	-11.51
	21100	2535	16QAM	1	0	21.64	22.94	33	-10.06
				1	24	21.28	22.58	33	-10.42
				12	6	20.43	21.73	33	-11.27
				25	0	20.23	21.53	33	-11.47
	21375	2567.5	16QAM	1	0	21.57	22.87	33	-10.13
				1	24	21.53	22.83	33	-10.17
				12	6	20.44	21.74	33	-11.26
				25	0	20.26	21.56	33	-11.44
	20775	2502.5	64QAM	1	0	21.37	22.67	33	-10.33
				1	24	21.64	22.94	33	-10.06
				12	6	20.42	21.72	33	-11.28
				25	0	20.24	21.54	33	-11.46
	21100	2535	64QAM	1	0	21.30	22.60	33	-10.4
				1	24	21.53	22.83	33	-10.17
				12	6	20.36	21.66	33	-11.34
				25	0	20.25	21.55	33	-11.45
	21375	2567.5	64QAM	1	0	21.41	22.71	33	-10.29
				1	24	21.76	23.06	33	-9.94
				12	6	20.45	21.75	33	-11.25
				25	0	20.38	21.68	33	-11.32

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Antenna gain (dBi) 1.3

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20800	2505	QPSK	1	0	22.36	23.66	33	-9.34
				1	49	22.52	23.82	33	-9.18
				25	12	21.56	22.86	33	-10.14
				50	0	21.30	22.60	33	-10.4
	21100	2535	QPSK	1	0	22.57	23.87	33	-9.13
				1	49	22.36	23.66	33	-9.34
				25	12	21.19	22.49	33	-10.51
				50	0	21.62	22.92	33	-10.08
	21350	2565	QPSK	1	0	22.45	23.75	33	-9.25
				1	49	22.58	23.88	33	-9.12
				25	12	21.40	22.70	33	-10.3
				50	0	21.47	22.77	33	-10.23
	20800	2505	16QAM	1	0	21.51	22.81	33	-10.19
				1	49	21.70	23.00	33	-10
				25	12	20.45	21.75	33	-11.25
				50	0	20.26	21.56	33	-11.44
	21100	2535	16QAM	1	0	21.39	22.69	33	-10.31
				1	49	21.74	23.04	33	-9.96
				25	12	20.43	21.73	33	-11.27
				50	0	20.28	21.58	33	-11.42
	21350	2565	16QAM	1	0	21.51	22.81	33	-10.19
				1	49	21.62	22.92	33	-10.08
				25	12	20.58	21.88	33	-11.12
				50	0	20.36	21.66	33	-11.34
	20800	2505	64QAM	1	0	21.65	22.95	33	-10.05
				1	49	21.79	23.09	33	-9.91
				25	12	20.34	21.64	33	-11.36
				50	0	20.46	21.76	33	-11.24
	21100	2535	64QAM	1	0	21.72	23.02	33	-9.98
				1	49	21.69	22.99	33	-10.01
				25	12	20.27	21.57	33	-11.43
				50	0	20.44	21.74	33	-11.26
	21350	2565	64QAM	1	0	21.67	22.97	33	-10.03
				1	49	21.76	23.06	33	-9.94
				25	12	20.38	21.68	33	-11.32
				50	0	20.32	21.62	33	-11.38

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Antenna gain (dBi) 1.3

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20825	2507.5	QPSK	1	0	22.38	23.68	33	-9.32
				1	74	22.51	23.81	33	-9.19
				36	18	21.31	22.61	33	-10.39
				75	0	21.42	22.72	33	-10.28
	21100	2535	QPSK	1	0	22.50	23.80	33	-9.2
				1	74	22.35	23.65	33	-9.35
				36	18	21.47	22.77	33	-10.23
				75	0	21.33	22.63	33	-10.37
	21375	2562.5	QPSK	1	0	22.56	23.86	33	-9.14
				1	74	22.44	23.74	33	-9.26
				36	18	21.64	22.94	33	-10.06
				75	0	21.50	22.80	33	-10.2
	20825	2507.5	16QAM	1	0	21.35	22.65	33	-10.35
				1	74	21.78	23.08	33	-9.92
				36	18	20.59	21.89	33	-11.11
				75	0	20.20	21.50	33	-11.5
	21100	2535	16QAM	1	0	21.46	22.76	33	-10.24
				1	74	21.65	22.95	33	-10.05
				36	18	20.22	21.52	33	-11.48
				75	0	20.51	21.81	33	-11.19
	21375	2562.5	16QAM	1	0	21.60	22.90	33	-10.1
				1	74	21.67	22.97	33	-10.03
				36	18	20.60	21.90	33	-11.1
				75	0	20.55	21.85	33	-11.15
	20825	2507.5	64QAM	1	0	21.61	22.91	33	-10.09
				1	74	21.74	23.04	33	-9.96
				36	18	20.28	21.58	33	-11.42
				75	0	20.11	21.41	33	-11.59
	21100	2535	64QAM	1	0	21.50	22.80	33	-10.2
				1	74	21.73	23.03	33	-9.97
				36	18	20.40	21.70	33	-11.3
				75	0	20.47	21.77	33	-11.23
	21375	2562.5	64QAM	1	0	21.56	22.86	33	-10.14
				1	74	21.61	22.91	33	-10.09
				36	18	20.46	21.76	33	-11.24
				75	0	20.56	21.86	33	-11.14

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Antenna gain (dBi) 1.3

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20850	2510	QPSK	1	0	22.65	23.95	33	-9.05
				1	99	22.44	23.74	33	-9.26
				50	25	21.47	22.77	33	-10.23
				100	0	21.43	22.73	33	-10.27
	21100	2535	QPSK	1	0	22.69	23.99	33	-9.01
				1	99	22.51	23.81	33	-9.19
				50	25	21.45	22.75	33	-10.25
				100	0	21.57	22.87	33	-10.13
	21350	2560	QPSK	1	0	22.68	23.98	33	-9.02
				1	99	22.68	23.98	33	-9.02
				50	25	21.63	22.93	33	-10.07
				100	0	21.54	22.84	33	-10.16
	20850	2510	16QAM	1	0	21.65	22.95	33	-10.05
				1	99	21.76	23.06	33	-9.94
				50	25	20.58	21.88	33	-11.12
				100	0	20.50	21.80	33	-11.2
	21100	2535	16QAM	1	0	21.55	22.85	33	-10.15
				1	99	21.52	22.82	33	-10.18
				50	25	20.54	21.84	33	-11.16
				100	0	20.41	21.71	33	-11.29
	21350	2560	16QAM	1	0	21.61	22.91	33	-10.09
				1	99	21.54	22.84	33	-10.16
				50	25	20.56	21.86	33	-11.14
				100	0	20.60	21.90	33	-11.1
	20850	2510	64QAM	1	0	21.55	22.85	33	-10.15
				1	99	21.67	22.97	33	-10.03
				50	25	20.60	21.90	33	-11.1
				100	0	20.46	21.76	33	-11.24
	21100	2535	64QAM	1	0	21.75	23.05	33	-9.95
				1	99	21.65	22.95	33	-10.05
				50	25	20.54	21.84	33	-11.16
				100	0	20.53	21.83	33	-11.17
	21350	2560	64QAM	1	0	21.72	23.02	33	-9.98
				1	99	21.57	22.87	33	-10.13
				50	25	20.56	21.86	33	-11.14
				100	0	20.42	21.72	33	-11.28

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Antenna gain (dBi) -2

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	23.76	19.61	21.76	34.77	-13.01
				1	5	23.92	19.77	21.92	34.77	-12.85
				3	2	23.11	18.96	21.11	34.77	-13.66
				6	0	23.09	18.94	21.09	34.77	-13.68
	23095	707.5	QPSK	1	0	23.84	19.69	21.84	34.77	-12.93
				1	5	24.05	19.90	22.05	34.77	-12.72
				3	2	22.85	18.70	20.85	34.77	-13.92
				6	0	22.86	18.71	20.86	34.77	-13.91
	23173	715.5	QPSK	1	0	23.82	19.67	21.82	34.77	-12.95
				1	5	23.65	19.50	21.65	34.77	-13.12
				3	2	23.02	18.87	21.02	34.77	-13.75
				6	0	22.79	18.64	20.79	34.77	-13.98
	23017	699.7	16QAM	1	0	22.97	18.82	20.97	34.77	-13.8
				1	5	23.36	19.21	21.36	34.77	-13.41
				3	2	22.01	17.86	20.01	34.77	-14.76
				6	0	21.92	17.77	19.92	34.77	-14.85
	23095	707.5	16QAM	1	0	22.82	18.67	20.82	34.77	-13.95
				1	5	23.24	19.09	21.24	34.77	-13.53
				3	2	22.04	17.89	20.04	34.77	-14.73
				6	0	22.11	17.96	20.11	34.77	-14.66
	23173	715.5	16QAM	1	0	23.11	18.96	21.11	34.77	-13.66
				1	5	23.16	19.01	21.16	34.77	-13.61
				3	2	21.87	17.72	19.87	34.77	-14.9
				6	0	21.95	17.80	19.95	34.77	-14.82
	23017	699.7	64QAM	1	0	23.04	18.89	21.04	34.77	-13.73
				1	5	23.16	19.01	21.16	34.77	-13.61
				3	2	21.66	17.51	19.66	34.77	-15.11
				6	0	22.06	17.91	20.06	34.77	-14.71
	23095	707.5	64QAM	1	0	22.97	18.82	20.97	34.77	-13.8
				1	5	23.15	19.00	21.15	34.77	-13.62
				3	2	21.94	17.79	19.94	34.77	-14.83
				6	0	21.93	17.78	19.93	34.77	-14.84
	23173	715.5	64QAM	1	0	23.16	19.01	21.16	34.77	-13.61
				1	5	23.22	19.07	21.22	34.77	-13.55
				3	2	21.74	17.59	19.74	34.77	-15.03
				6	0	21.80	17.65	19.80	34.77	-14.97

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Antenna gain (dBi) -2

LTE Band 12 Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	23.66	19.51	21.66	34.77	-13.11
				1	14	23.95	19.80	21.95	34.77	-12.82
				8	4	22.98	18.83	20.98	34.77	-13.79
				15	0	23.11	18.96	21.11	34.77	-13.66
	23095	707.5	QPSK	1	0	23.62	19.47	21.62	34.77	-13.15
				1	14	24.12	19.97	22.12	34.77	-12.65
				8	4	22.84	18.69	20.84	34.77	-13.93
				15	0	22.86	18.71	20.86	34.77	-13.91
	23165	714.5	QPSK	1	0	23.75	19.60	21.75	34.77	-13.02
				1	14	23.86	19.71	21.86	34.77	-12.91
				8	4	23.05	18.90	21.05	34.77	-13.72
				15	0	22.92	18.77	20.92	34.77	-13.85
	23025	700.5	16QAM	1	0	23.09	18.94	21.09	34.77	-13.68
				1	14	23.27	19.12	21.27	34.77	-13.5
				8	4	21.97	17.82	19.97	34.77	-14.8
				15	0	22.07	17.92	20.07	34.77	-14.7
	23095	707.5	16QAM	1	0	23.00	18.85	21.00	34.77	-13.77
				1	14	23.43	19.28	21.43	34.77	-13.34
				8	4	22.20	18.05	20.20	34.77	-14.57
				15	0	22.03	17.88	20.03	34.77	-14.74
	23165	714.5	16QAM	1	0	23.15	19.00	21.15	34.77	-13.62
				1	14	23.14	18.99	21.14	34.77	-13.63
				8	4	21.88	17.73	19.88	34.77	-14.89
				15	0	21.97	17.82	19.97	34.77	-14.8
	23025	700.5	64QAM	1	0	22.81	18.66	20.81	34.77	-13.96
				1	14	23.17	19.02	21.17	34.77	-13.6
				8	4	21.74	17.59	19.74	34.77	-15.03
				15	0	22.05	17.90	20.05	34.77	-14.72
	23095	707.5	64QAM	1	0	22.84	18.69	20.84	34.77	-13.93
				1	14	23.40	19.25	21.40	34.77	-13.37
				8	4	21.85	17.70	19.85	34.77	-14.92
				15	0	21.97	17.82	19.97	34.77	-14.8
	23165	714.5	64QAM	1	0	23.05	18.90	21.05	34.77	-13.72
				1	14	23.30	19.15	21.30	34.77	-13.47
				8	4	21.73	17.58	19.73	34.77	-15.04
				15	0	21.94	17.79	19.94	34.77	-14.83

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Antenna gain (dBi) -2

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	23.63	19.48	21.63	34.77	-13.14
				1	24	23.98	19.83	21.98	34.77	-12.79
				12	6	23.04	18.89	21.04	34.77	-13.73
				25	0	23.08	18.93	21.08	34.77	-13.69
	23095	707.5	QPSK	1	0	23.68	19.53	21.68	34.77	-13.09
				1	24	24.14	19.99	22.14	34.77	-12.63
				12	6	22.98	18.83	20.98	34.77	-13.79
				25	0	23.02	18.87	21.02	34.77	-13.75
	23155	713.5	QPSK	1	0	23.88	19.73	21.88	34.77	-12.89
				1	24	23.85	19.70	21.85	34.77	-12.92
				12	6	23.10	18.95	21.10	34.77	-13.67
				25	0	22.97	18.82	20.97	34.77	-13.8
	23035	701.5	16QAM	1	0	23.11	18.96	21.11	34.77	-13.66
				1	24	23.23	19.08	21.23	34.77	-13.54
				12	6	21.98	17.83	19.98	34.77	-14.79
				25	0	21.87	17.72	19.87	34.77	-14.9
	23095	707.5	16QAM	1	0	23.02	18.87	21.02	34.77	-13.75
				1	24	23.41	19.26	21.41	34.77	-13.36
				12	6	22.07	17.92	20.07	34.77	-14.7
				25	0	22.01	17.86	20.01	34.77	-14.76
	23155	713.5	16QAM	1	0	23.17	19.02	21.17	34.77	-13.6
				1	24	23.41	19.26	21.41	34.77	-13.36
				12	6	21.98	17.83	19.98	34.77	-14.79
				25	0	22.07	17.92	20.07	34.77	-14.7
	23035	701.5	64QAM	1	0	22.95	18.80	20.95	34.77	-13.82
				1	24	23.10	18.95	21.10	34.77	-13.67
				12	6	21.67	17.52	19.67	34.77	-15.1
				25	0	21.87	17.72	19.87	34.77	-14.9
	23095	707.5	64QAM	1	0	22.89	18.74	20.89	34.77	-13.88
				1	24	23.35	19.20	21.35	34.77	-13.42
				12	6	21.85	17.70	19.85	34.77	-14.92
				25	0	21.93	17.78	19.93	34.77	-14.84
	23155	713.5	64QAM	1	0	22.96	18.81	20.96	34.77	-13.81
				1	24	23.25	19.10	21.25	34.77	-13.52
				12	6	21.79	17.64	19.79	34.77	-14.98
				25	0	21.78	17.63	19.78	34.77	-14.99

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Antenna gain (dBi) -2

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	23.86	19.71	21.86	34.77	-12.91
				1	49	24.14	19.99	22.14	34.77	-12.63
				25	12	23.14	18.99	21.14	34.77	-13.63
				50	0	23.20	19.05	21.20	34.77	-13.57
	23095	707.5	QPSK	1	0	23.87	19.72	21.87	34.77	-12.9
				1	49	24.32	20.17	22.32	34.77	-12.45
				25	12	23.14	18.99	21.14	34.77	-13.63
				50	0	23.13	18.98	21.13	34.77	-13.64
	23130	711	QPSK	1	0	24.04	19.89	22.04	34.77	-12.73
				1	49	23.90	19.75	21.90	34.77	-12.87
				25	12	23.13	18.98	21.13	34.77	-13.64
				50	0	23.00	18.85	21.00	34.77	-13.77
	23060	704	16QAM	1	0	23.15	19.00	21.15	34.77	-13.62
				1	49	23.42	19.27	21.42	34.77	-13.35
				25	12	22.02	17.87	20.02	34.77	-14.75
				50	0	22.16	18.01	20.16	34.77	-14.61
	23095	707.5	16QAM	1	0	23.07	18.92	21.07	34.77	-13.7
				1	49	23.51	19.36	21.51	34.77	-13.26
				25	12	22.22	18.07	20.22	34.77	-14.55
				50	0	22.13	17.98	20.13	34.77	-14.64
	23130	711	16QAM	1	0	23.24	19.09	21.24	34.77	-13.53
				1	49	23.42	19.27	21.42	34.77	-13.35
				25	12	22.09	17.94	20.09	34.77	-14.68
				50	0	22.07	17.92	20.07	34.77	-14.7
	23060	704	64QAM	1	0	23.07	18.92	21.07	34.77	-13.7
				1	49	23.34	19.19	21.34	34.77	-13.43
				25	12	21.94	17.79	19.94	34.77	-14.83
				50	0	22.08	17.93	20.08	34.77	-14.69
	23095	707.5	64QAM	1	0	22.99	18.84	20.99	34.77	-13.78
				1	49	23.43	19.28	21.43	34.77	-13.34
				25	12	22.14	17.99	20.14	34.77	-14.63
				50	0	22.05	17.90	20.05	34.77	-14.72
	23130	711	64QAM	1	0	23.16	19.01	21.16	34.77	-13.61
				1	49	23.34	19.19	21.34	34.77	-13.43
				25	12	22.01	17.86	20.01	34.77	-14.76
				50	0	21.99	17.84	19.99	34.77	-14.78

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Antenna gain (dBi) -1.9

LTE Band 13 Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	23.74	19.69	21.84	34.77	-12.93
				1	24	23.91	19.86	22.01	34.77	-12.76
				12	6	22.82	18.77	20.92	34.77	-13.85
				25	0	22.92	18.87	21.02	34.77	-13.75
	23230	782	QPSK	1	0	23.85	19.80	21.95	34.77	-12.82
				1	24	24.01	19.96	22.11	34.77	-12.66
				12	6	22.83	18.78	20.93	34.77	-13.84
				25	0	23.03	18.98	21.13	34.77	-13.64
	23255	784.5	QPSK	1	0	23.96	19.91	22.06	34.77	-12.71
				1	24	24.05	20.00	22.15	34.77	-12.62
				12	6	22.92	18.87	21.02	34.77	-13.75
				25	0	23.10	19.05	21.20	34.77	-13.57
	23205	779.5	16QAM	1	0	23.10	19.05	21.20	34.77	-13.57
				1	24	23.18	19.13	21.28	34.77	-13.49
				12	6	22.22	18.17	20.32	34.77	-14.45
				25	0	22.06	18.01	20.16	34.77	-14.61
	23230	782	16QAM	1	0	23.40	19.35	21.50	34.77	-13.27
				1	24	23.16	19.11	21.26	34.77	-13.51
				12	6	22.14	18.09	20.24	34.77	-14.53
				25	0	22.02	17.97	20.12	34.77	-14.65
	23255	784.5	16QAM	1	0	23.23	19.18	21.33	34.77	-13.44
				1	24	23.22	19.17	21.32	34.77	-13.45
				12	6	22.09	18.04	20.19	34.77	-14.58
				25	0	22.05	18.00	20.15	34.77	-14.62
	23205	779.5	64QAM	1	0	23.16	19.11	21.26	34.77	-13.51
				1	24	23.10	19.05	21.20	34.77	-13.57
				12	6	21.93	17.88	20.03	34.77	-14.74
				25	0	21.79	17.74	19.89	34.77	-14.88
	23230	782	64QAM	1	0	23.25	19.20	21.35	34.77	-13.42
				1	24	23.21	19.16	21.31	34.77	-13.46
				12	6	21.92	17.87	20.02	34.77	-14.75
				25	0	21.80	17.75	19.90	34.77	-14.87
	23255	784.5	64QAM	1	0	23.11	19.06	21.21	34.77	-13.56
				1	24	23.09	19.04	21.19	34.77	-13.58
				12	6	22.08	18.03	20.18	34.77	-14.59
				25	0	21.81	17.76	19.91	34.77	-14.86

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Antenna gain (dBi) -1.9

LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	23.99	19.94	22.09	34.77	-12.68
				1	49	24.15	20.10	22.25	34.77	-12.52
				25	12	23.11	19.06	21.21	34.77	-13.56
				50	0	23.21	19.16	21.31	34.77	-13.46
	23230	782	16QAM	1	0	23.37	19.32	21.47	34.77	-13.3
				1	49	23.38	19.33	21.48	34.77	-13.29
				25	12	22.23	18.18	20.33	34.77	-14.44
				50	0	22.14	18.09	20.24	34.77	-14.53
	23230	782	64QAM	1	0	23.22	19.17	21.32	34.77	-13.45
				1	49	23.23	19.18	21.33	34.77	-13.44
				25	12	22.08	18.03	20.18	34.77	-14.59
				50	0	21.99	17.94	20.09	34.77	-14.68

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Antenna gain (dBi) -1.9

LTE Band 14 Uplink frequency band : 788 to 798 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23305	790.5	QPSK	1	0	23.98	19.93	22.08	34.77	-12.69
				1	24	24.15	20.10	22.25	34.77	-12.52
				12	6	23.16	19.11	21.26	34.77	-13.51
				25	0	23.11	19.06	21.21	34.77	-13.56
	23330	793	QPSK	1	0	23.88	19.83	21.98	34.77	-12.79
				1	24	24.12	20.07	22.22	34.77	-12.55
				12	6	23.16	19.11	21.26	34.77	-13.51
				25	0	23.10	19.05	21.20	34.77	-13.57
	23355	795.5	QPSK	1	0	23.82	19.77	21.92	34.77	-12.85
				1	24	24.08	20.03	22.18	34.77	-12.59
				12	6	23.13	19.08	21.23	34.77	-13.54
				25	0	23.16	19.11	21.26	34.77	-13.51
	23305	790.5	16QAM	1	0	23.29	19.24	21.39	34.77	-13.38
				1	24	22.87	18.82	20.97	34.77	-13.8
				12	6	22.27	18.22	20.37	34.77	-14.4
				25	0	21.88	17.83	19.98	34.77	-14.79
	23330	793	16QAM	1	0	23.32	19.27	21.42	34.77	-13.35
				1	24	22.94	18.89	21.04	34.77	-13.73
				12	6	22.06	18.01	20.16	34.77	-14.61
				25	0	22.08	18.03	20.18	34.77	-14.59
	23355	795.5	16QAM	1	0	23.51	19.46	21.61	34.77	-13.16
				1	24	22.96	18.91	21.06	34.77	-13.71
				12	6	22.14	18.09	20.24	34.77	-14.53
				25	0	22.06	18.01	20.16	34.77	-14.61
	23305	790.5	64QAM	1	0	23.24	19.19	21.34	34.77	-13.43
				1	24	22.88	18.83	20.98	34.77	-13.79
				12	6	21.69	17.64	19.79	34.77	-14.98
				25	0	22.04	17.99	20.14	34.77	-14.63
	23330	793	64QAM	1	0	23.20	19.15	21.30	34.77	-13.47
				1	24	22.71	18.66	20.81	34.77	-13.96
				12	6	21.94	17.89	20.04	34.77	-14.73
				25	0	21.80	17.75	19.90	34.77	-14.87
	23355	795.5	64QAM	1	0	23.26	19.21	21.36	34.77	-13.41
				1	24	22.96	18.91	21.06	34.77	-13.71
				12	6	22.04	17.99	20.14	34.77	-14.63
				25	0	21.69	17.64	19.79	34.77	-14.98

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Antenna gain (dBi) -1.9

LTE Band 14_Uplink frequency band : 788 to 798 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23330	793	QPSK	1	0	24.12	20.07	22.22	34.77	-12.55
				1	49	24.18	20.13	22.28	34.77	-12.49
				25	12	23.21	19.16	21.31	34.77	-13.46
				50	0	23.17	19.12	21.27	34.77	-13.5
	23330	793	16QAM	1	0	23.59	19.54	21.69	34.77	-13.08
				1	49	23.24	19.19	21.34	34.77	-13.43
				25	12	22.28	18.23	20.38	34.77	-14.39
				50	0	22.15	18.10	20.25	34.77	-14.52
	23330	793	64QAM	1	0	23.36	19.31	21.46	34.77	-13.31
				1	49	23.01	18.96	21.11	34.77	-13.66
				25	12	22.05	18.00	20.15	34.77	-14.62
				50	0	21.92	17.87	20.02	34.77	-14.75

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Antenna gain (dBi) 0.7

LTE Band 25 Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26047	1850.7	QPSK	1	0	24.42	25.12	33	-7.88
				1	5	24.03	24.73	33	-8.27
				3	2	22.73	23.43	33	-9.57
				6	0	22.91	23.61	33	-9.39
	26365	1882.5	QPSK	1	0	24.03	24.73	33	-8.27
				1	5	23.81	24.51	33	-8.49
				3	2	22.73	23.43	33	-9.57
				6	0	22.93	23.63	33	-9.37
	26683	1914.3	QPSK	1	0	24.25	24.95	33	-8.05
				1	5	24.09	24.79	33	-8.21
				3	2	22.92	23.62	33	-9.38
				6	0	23.00	23.70	33	-9.3
	26047	1850.7	16QAM	1	0	23.21	23.91	33	-9.09
				1	5	23.09	23.79	33	-9.21
				3	2	21.82	22.52	33	-10.48
				6	0	21.70	22.40	33	-10.6
	26365	1882.5	16QAM	1	0	23.40	24.10	33	-8.9
				1	5	23.21	23.91	33	-9.09
				3	2	21.76	22.46	33	-10.54
				6	0	21.67	22.37	33	-10.63
	26683	1914.3	16QAM	1	0	23.37	24.07	33	-8.93
				1	5	23.23	23.93	33	-9.07
				3	2	22.15	22.85	33	-10.15
				6	0	22.02	22.72	33	-10.28
	26047	1850.7	64QAM	1	0	23.04	23.74	33	-9.26
				1	5	22.97	23.67	33	-9.33
				3	2	21.76	22.46	33	-10.54
				6	0	21.61	22.31	33	-10.69
	26365	1882.5	64QAM	1	0	23.37	24.07	33	-8.93
				1	5	22.93	23.63	33	-9.37
				3	2	21.50	22.20	33	-10.8
				6	0	21.52	22.22	33	-10.78
	26683	1914.3	64QAM	1	0	22.95	23.65	33	-9.35
				1	5	23.14	23.84	33	-9.16
				3	2	21.99	22.69	33	-10.31
				6	0	21.71	22.41	33	-10.59

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SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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Member of SGS Group

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	24.25	24.95	33	-8.05
				1	14	23.79	24.49	33	-8.51
				8	4	22.70	23.40	33	-9.6
				15	0	22.78	23.48	33	-9.52
	26365	1882.5	QPSK	1	0	24.00	24.70	33	-8.3
				1	14	23.98	24.68	33	-8.32
				8	4	22.65	23.35	33	-9.65
				15	0	22.83	23.53	33	-9.47
	26675	1913.5	QPSK	1	0	24.34	25.04	33	-7.96
				1	14	24.21	24.91	33	-8.09
				8	4	23.19	23.89	33	-9.11
				15	0	22.94	23.64	33	-9.36
	26055	1851.5	16QAM	1	0	23.15	23.85	33	-9.15
				1	14	22.99	23.69	33	-9.31
				8	4	21.95	22.65	33	-10.35
				15	0	21.83	22.53	33	-10.47
	26365	1882.5	16QAM	1	0	23.54	24.24	33	-8.76
				1	14	23.11	23.81	33	-9.19
				8	4	21.91	22.61	33	-10.39
				15	0	21.80	22.50	33	-10.5
	26675	1913.5	16QAM	1	0	23.33	24.03	33	-8.97
				1	14	23.43	24.13	33	-8.87
				8	4	22.17	22.87	33	-10.13
				15	0	21.87	22.57	33	-10.43
	26055	1851.5	64QAM	1	0	23.03	23.73	33	-9.27
				1	14	22.99	23.69	33	-9.31
				8	4	21.57	22.27	33	-10.73
				15	0	21.59	22.29	33	-10.71
	26365	1882.5	64QAM	1	0	23.26	23.96	33	-9.04
				1	14	23.09	23.79	33	-9.21
				8	4	21.60	22.30	33	-10.7
				15	0	21.46	22.16	33	-10.84
	26675	1913.5	64QAM	1	0	23.19	23.89	33	-9.11
				1	14	23.23	23.93	33	-9.07
				8	4	21.84	22.54	33	-10.46
				15	0	21.94	22.64	33	-10.36

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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	24.33	25.03	33	-7.97
				1	24	23.84	24.54	33	-8.46
				12	6	22.90	23.60	33	-9.4
				25	0	22.84	23.54	33	-9.46
	26365	1882.5	QPSK	1	0	23.87	24.57	33	-8.43
				1	24	24.07	24.77	33	-8.23
				12	6	22.73	23.43	33	-9.57
				25	0	22.88	23.58	33	-9.42
	26665	1912.5	QPSK	1	0	24.26	24.96	33	-8.04
				1	24	24.22	24.92	33	-8.08
				12	6	23.16	23.86	33	-9.14
				25	0	22.88	23.58	33	-9.42
	26065	1852.5	16QAM	1	0	23.27	23.97	33	-9.03
				1	24	23.15	23.85	33	-9.15
				12	6	21.95	22.65	33	-10.35
				25	0	21.70	22.40	33	-10.6
	26365	1882.5	16QAM	1	0	23.49	24.19	33	-8.81
				1	24	23.19	23.89	33	-9.11
				12	6	21.90	22.60	33	-10.4
				25	0	21.78	22.48	33	-10.52
	26665	1912.5	16QAM	1	0	23.32	24.02	33	-8.98
				1	24	23.23	23.93	33	-9.07
				12	6	22.12	22.82	33	-10.18
				25	0	21.90	22.60	33	-10.4
	26065	1852.5	64QAM	1	0	23.22	23.92	33	-9.08
				1	24	22.95	23.65	33	-9.35
				12	6	21.56	22.26	33	-10.74
				25	0	21.71	22.41	33	-10.59
	26365	1882.5	64QAM	1	0	23.35	24.05	33	-8.95
				1	24	23.05	23.75	33	-9.25
				12	6	21.67	22.37	33	-10.63
				25	0	21.64	22.34	33	-10.66
	26665	1912.5	64QAM	1	0	23.14	23.84	33	-9.16
				1	24	23.24	23.94	33	-9.06
				12	6	21.87	22.57	33	-10.43
				25	0	21.90	22.60	33	-10.4

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Antenna gain (dBi) 0.7

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26090	1855	QPSK	1	0	24.44	25.14	33	-7.86
				1	49	23.82	24.52	33	-8.48
				25	12	22.75	23.45	33	-9.55
				50	0	22.92	23.62	33	-9.38
	26365	1882.5	QPSK	1	0	23.87	24.57	33	-8.43
				1	49	23.93	24.63	33	-8.37
				25	12	22.71	23.41	33	-9.59
				50	0	22.95	23.65	33	-9.35
	26640	1910	QPSK	1	0	24.48	25.18	33	-7.82
				1	49	24.07	24.77	33	-8.23
				25	12	23.11	23.81	33	-9.19
				50	0	23.00	23.70	33	-9.3
	26090	1855	16QAM	1	0	23.35	24.05	33	-8.95
				1	49	23.20	23.90	33	-9.1
				25	12	21.74	22.44	33	-10.56
				50	0	21.80	22.50	33	-10.5
	26365	1882.5	16QAM	1	0	23.52	24.22	33	-8.78
				1	49	23.20	23.90	33	-9.1
				25	12	21.83	22.53	33	-10.47
				50	0	21.87	22.57	33	-10.43
	26640	1910	16QAM	1	0	23.10	23.80	33	-9.2
				1	49	23.32	24.02	33	-8.98
				25	12	22.18	22.88	33	-10.12
				50	0	22.01	22.71	33	-10.29
	26090	1855	64QAM	1	0	23.07	23.77	33	-9.23
				1	49	22.80	23.50	33	-9.5
				25	12	21.68	22.38	33	-10.62
				50	0	21.65	22.35	33	-10.65
	26365	1882.5	64QAM	1	0	23.25	23.95	33	-9.05
				1	49	22.96	23.66	33	-9.34
				25	12	21.62	22.32	33	-10.68
				50	0	21.69	22.39	33	-10.61
	26640	1910	64QAM	1	0	22.94	23.64	33	-9.36
				1	49	22.98	23.68	33	-9.32
				25	12	22.00	22.70	33	-10.3
				50	0	21.93	22.63	33	-10.37

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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	24.48	25.18	33	-7.82
				1	74	23.89	24.59	33	-8.41
				36	18	22.87	23.57	33	-9.43
				75	0	22.85	23.55	33	-9.45
	26365	1882.5	QPSK	1	0	23.91	24.61	33	-8.39
				1	74	23.96	24.66	33	-8.34
				36	18	22.59	23.29	33	-9.71
				75	0	22.83	23.53	33	-9.47
	26615	1907.5	QPSK	1	0	24.46	25.16	33	-7.84
				1	74	24.16	24.86	33	-8.14
				36	18	23.03	23.73	33	-9.27
				75	0	23.07	23.77	33	-9.23
	26115	1857.5	16QAM	1	0	23.14	23.84	33	-9.16
				1	74	23.14	23.84	33	-9.16
				36	18	21.91	22.61	33	-10.39
				75	0	21.70	22.40	33	-10.6
	26365	1882.5	16QAM	1	0	23.47	24.17	33	-8.83
				1	74	23.16	23.86	33	-9.14
				36	18	21.62	22.32	33	-10.68
				75	0	21.86	22.56	33	-10.44
	26615	1907.5	16QAM	1	0	23.11	23.81	33	-9.19
				1	74	23.43	24.13	33	-8.87
				36	18	22.02	22.72	33	-10.28
				75	0	22.09	22.79	33	-10.21
	26115	1857.5	64QAM	1	0	23.03	23.73	33	-9.27
				1	74	23.00	23.70	33	-9.3
				36	18	21.75	22.45	33	-10.55
				75	0	21.76	22.46	33	-10.54
	26365	1882.5	64QAM	1	0	23.45	24.15	33	-8.85
				1	74	22.97	23.67	33	-9.33
				36	18	21.61	22.31	33	-10.69
				75	0	21.70	22.40	33	-10.6
	26615	1907.5	64QAM	1	0	23.01	23.71	33	-9.29
				1	74	23.08	23.78	33	-9.22
				36	18	21.79	22.49	33	-10.51
				75	0	21.75	22.45	33	-10.55

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Antenna gain (dBi) 0.7

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	26140	1860	QPSK	1	0	24.49	25.19	33	-7.81
				1	99	24.05	24.75	33	-8.25
				50	25	22.94	23.64	33	-9.36
				100	0	22.98	23.68	33	-9.32
	26365	1882.5	QPSK	1	0	24.14	24.84	33	-8.16
				1	99	24.08	24.78	33	-8.22
				50	25	22.88	23.58	33	-9.42
				100	0	22.97	23.67	33	-9.33
	26590	1905	QPSK	1	0	24.48	25.18	33	-7.82
				1	99	24.26	24.96	33	-8.04
				50	25	23.21	23.91	33	-9.09
				100	0	23.16	23.86	33	-9.14
	26140	1860	16QAM	1	0	23.40	24.10	33	-8.9
				1	99	23.22	23.92	33	-9.08
				50	25	21.99	22.69	33	-10.31
				100	0	21.99	22.69	33	-10.31
	26365	1882.5	16QAM	1	0	23.67	24.37	33	-8.63
				1	99	23.27	23.97	33	-9.03
				50	25	21.91	22.61	33	-10.39
				100	0	21.88	22.58	33	-10.42
	26590	1905	16QAM	1	0	23.39	24.09	33	-8.91
				1	99	23.44	24.14	33	-8.86
				50	25	22.19	22.89	33	-10.11
				100	0	22.15	22.85	33	-10.15
	26140	1860	64QAM	1	0	23.23	23.93	33	-9.07
				1	99	23.05	23.75	33	-9.25
				50	25	21.82	22.52	33	-10.48
				100	0	21.82	22.52	33	-10.48
	26365	1882.5	64QAM	1	0	23.50	24.20	33	-8.8
				1	99	23.10	23.80	33	-9.2
				50	25	21.74	22.44	33	-10.56
				100	0	21.71	22.41	33	-10.59
	26590	1905	64QAM	1	0	23.22	23.92	33	-9.08
				1	99	23.27	23.97	33	-9.03
				50	25	22.02	22.72	33	-10.28
				100	0	21.98	22.68	33	-10.32

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Antenna gain (dBi) -2.5

LTE Band 26 Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26797	824.7	QPSK	1	0	23.83	19.18	21.33	38.45	-17.12
				1	5	23.88	19.23	21.38	38.45	-17.07
				3	2	23.15	18.50	20.65	38.45	-17.8
				6	0	23.08	18.43	20.58	38.45	-17.87
	26915	836.5	QPSK	1	0	23.75	19.10	21.25	38.45	-17.2
				1	5	23.70	19.05	21.20	38.45	-17.25
				3	2	22.99	18.34	20.49	38.45	-17.96
				6	0	22.85	18.20	20.35	38.45	-18.1
	27033	848.3	QPSK	1	0	23.87	19.22	21.37	38.45	-17.08
				1	5	23.75	19.10	21.25	38.45	-17.2
				3	2	22.76	18.11	20.26	38.45	-18.19
				6	0	22.81	18.16	20.31	38.45	-18.14
	26797	824.7	16QAM	1	0	23.08	18.43	20.58	38.45	-17.87
				1	5	23.34	18.69	20.84	38.45	-17.61
				3	2	21.94	17.29	19.44	38.45	-19.01
				6	0	22.10	17.45	19.60	38.45	-18.85
	26915	836.5	16QAM	1	0	23.19	18.54	20.69	38.45	-17.76
				1	5	22.92	18.27	20.42	38.45	-18.03
				3	2	22.01	17.36	19.51	38.45	-18.94
				6	0	21.81	17.16	19.31	38.45	-19.14
	27033	848.3	16QAM	1	0	23.42	18.77	20.92	38.45	-17.53
				1	5	22.51	17.86	20.01	38.45	-18.44
				3	2	22.05	17.40	19.55	38.45	-18.9
				6	0	22.04	17.39	19.54	38.45	-18.91
	26797	824.7	64QAM	1	0	22.87	18.22	20.37	38.45	-18.08
				1	5	23.26	18.61	20.76	38.45	-17.69
				3	2	21.99	17.34	19.49	38.45	-18.96
				6	0	21.86	17.21	19.36	38.45	-19.09
	26915	836.5	64QAM	1	0	23.11	18.46	20.61	38.45	-17.84
				1	5	22.70	18.05	20.20	38.45	-18.25
				3	2	21.79	17.14	19.29	38.45	-19.16
				6	0	21.94	17.29	19.44	38.45	-19.01
	27033	848.3	64QAM	1	0	23.38	18.73	20.88	38.45	-17.57
				1	5	22.58	17.93	20.08	38.45	-18.37
				3	2	22.01	17.36	19.51	38.45	-18.94
				6	0	22.06	17.41	19.56	38.45	-18.89

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Antenna gain (dBi) -2.5

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26805	825.5	QPSK	1	0	23.87	19.22	21.37	38.45	-17.08
				1	14	23.87	19.22	21.37	38.45	-17.08
				8	4	23.00	18.35	20.50	38.45	-17.95
				15	0	23.04	18.39	20.54	38.45	-17.91
	26915	836.5	QPSK	1	0	23.98	19.33	21.48	38.45	-16.97
				1	14	23.77	19.12	21.27	38.45	-17.18
				8	4	22.93	18.28	20.43	38.45	-18.02
				15	0	22.93	18.28	20.43	38.45	-18.02
	27025	847.5	QPSK	1	0	23.74	19.09	21.24	38.45	-17.21
				1	14	23.58	18.93	21.08	38.45	-17.37
				8	4	22.87	18.22	20.37	38.45	-18.08
				15	0	23.02	18.37	20.52	38.45	-17.93
	26805	825.5	16QAM	1	0	22.86	18.21	20.36	38.45	-18.09
				1	14	23.39	18.74	20.89	38.45	-17.56
				8	4	22.12	17.47	19.62	38.45	-18.83
				15	0	21.82	17.17	19.32	38.45	-19.13
	26915	836.5	16QAM	1	0	23.26	18.61	20.76	38.45	-17.69
				1	14	22.92	18.27	20.42	38.45	-18.03
				8	4	21.88	17.23	19.38	38.45	-19.07
				15	0	22.10	17.45	19.60	38.45	-18.85
	27025	847.5	16QAM	1	0	23.28	18.63	20.78	38.45	-17.67
				1	14	22.53	17.88	20.03	38.45	-18.42
				8	4	21.98	17.33	19.48	38.45	-18.97
				15	0	21.99	17.34	19.49	38.45	-18.96
	26805	825.5	64QAM	1	0	22.86	18.21	20.36	38.45	-18.09
				1	14	23.51	18.86	21.01	38.45	-17.44
				8	4	21.90	17.25	19.40	38.45	-19.05
				15	0	22.00	17.35	19.50	38.45	-18.95
	26915	836.5	64QAM	1	0	23.02	18.37	20.52	38.45	-17.93
				1	14	22.91	18.26	20.41	38.45	-18.04
				8	4	22.01	17.36	19.51	38.45	-18.94
				15	0	21.84	17.19	19.34	38.45	-19.11
	27025	847.5	64QAM	1	0	23.45	18.80	20.95	38.45	-17.5
				1	14	22.54	17.89	20.04	38.45	-18.41
				8	4	21.79	17.14	19.29	38.45	-19.16
				15	0	21.98	17.33	19.48	38.45	-18.97

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Antenna gain (dBi) -2.5

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26815	826.5	QPSK	1	0	23.83	19.18	21.33	38.45	-17.12
				1	24	23.89	19.24	21.39	38.45	-17.06
				12	6	23.02	18.37	20.52	38.45	-17.93
				25	0	22.87	18.22	20.37	38.45	-18.08
	26915	836.5	QPSK	1	0	23.94	19.29	21.44	38.45	-17.01
				1	24	23.79	19.14	21.29	38.45	-17.16
				12	6	22.97	18.32	20.47	38.45	-17.98
				25	0	22.95	18.30	20.45	38.45	-18
	27015	846.5	QPSK	1	0	23.78	19.13	21.28	38.45	-17.17
				1	24	23.62	18.97	21.12	38.45	-17.33
				12	6	22.81	18.16	20.31	38.45	-18.14
				25	0	22.83	18.18	20.33	38.45	-18.12
	26815	826.5	16QAM	1	0	23.07	18.42	20.57	38.45	-17.88
				1	24	23.33	18.68	20.83	38.45	-17.62
				12	6	21.97	17.32	19.47	38.45	-18.98
				25	0	21.89	17.24	19.39	38.45	-19.06
	26915	836.5	16QAM	1	0	23.32	18.67	20.82	38.45	-17.63
				1	24	23.00	18.35	20.50	38.45	-17.95
				12	6	22.03	17.38	19.53	38.45	-18.92
				25	0	21.96	17.31	19.46	38.45	-18.99
	27015	846.5	16QAM	1	0	23.25	18.60	20.75	38.45	-17.7
				1	24	22.65	18.00	20.15	38.45	-18.3
				12	6	22.03	17.38	19.53	38.45	-18.92
				25	0	21.92	17.27	19.42	38.45	-19.03
	26815	826.5	64QAM	1	0	22.88	18.23	20.38	38.45	-18.07
				1	24	23.49	18.84	20.99	38.45	-17.46
				12	6	22.09	17.44	19.59	38.45	-18.86
				25	0	21.80	17.15	19.30	38.45	-19.15
	26915	836.5	64QAM	1	0	23.20	18.55	20.70	38.45	-17.75
				1	24	22.93	18.28	20.43	38.45	-18.02
				12	6	22.02	17.37	19.52	38.45	-18.93
				25	0	21.81	17.16	19.31	38.45	-19.14
	27015	846.5	64QAM	1	0	23.32	18.67	20.82	38.45	-17.63
				1	24	22.63	17.98	20.13	38.45	-18.32
				12	6	21.96	17.31	19.46	38.45	-18.99
				25	0	21.78	17.13	19.28	38.45	-19.17

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Antenna gain (dBi) -2.5

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26840	829	QPSK	1	0	23.80	19.15	21.30	38.45	-17.15
				1	49	23.95	19.30	21.45	38.45	-17
				25	12	22.96	18.31	20.46	38.45	-17.99
				50	0	23.04	18.39	20.54	38.45	-17.91
	26915	836.5	QPSK	1	0	23.87	19.22	21.37	38.45	-17.08
				1	49	23.76	19.11	21.26	38.45	-17.19
				25	12	22.80	18.15	20.30	38.45	-18.15
				50	0	22.98	18.33	20.48	38.45	-17.97
	26990	844	QPSK	1	0	23.98	19.33	21.48	38.45	-16.97
				1	49	23.64	18.99	21.14	38.45	-17.31
				25	12	22.97	18.32	20.47	38.45	-17.98
				50	0	23.05	18.40	20.55	38.45	-17.9
	26840	829	16QAM	1	0	23.05	18.40	20.55	38.45	-17.9
				1	49	23.46	18.81	20.96	38.45	-17.49
				25	12	22.10	17.45	19.60	38.45	-18.85
				50	0	22.08	17.43	19.58	38.45	-18.87
	26915	836.5	16QAM	1	0	23.20	18.55	20.70	38.45	-17.75
				1	49	22.93	18.28	20.43	38.45	-18.02
				25	12	22.07	17.42	19.57	38.45	-18.88
				50	0	21.80	17.15	19.30	38.45	-19.15
	26990	844	16QAM	1	0	23.47	18.82	20.97	38.45	-17.48
				1	49	22.54	17.89	20.04	38.45	-18.41
				25	12	22.06	17.41	19.56	38.45	-18.89
				50	0	22.09	17.44	19.59	38.45	-18.86
	26840	829	64QAM	1	0	23.01	18.36	20.51	38.45	-17.94
				1	49	23.40	18.75	20.90	38.45	-17.55
				25	12	21.93	17.28	19.43	38.45	-19.02
				50	0	22.02	17.37	19.52	38.45	-18.93
	26915	836.5	64QAM	1	0	23.09	18.44	20.59	38.45	-17.86
				1	49	22.91	18.26	20.41	38.45	-18.04
				25	12	21.82	17.17	19.32	38.45	-19.13
				50	0	21.97	17.32	19.47	38.45	-18.98
	26990	844	64QAM	1	0	23.41	18.76	20.91	38.45	-17.54
				1	49	22.50	17.85	20.00	38.45	-18.45
				25	12	21.71	17.06	19.21	38.45	-19.24
				50	0	22.08	17.43	19.58	38.45	-18.87

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Antenna gain (dBi) -2.5

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	26865	831.5	QPSK	1	0	24.05	19.40	21.55	38.45	-16.9
				1	74	24.03	19.38	21.53	38.45	-16.92
				36	18	23.20	18.55	20.70	38.45	-17.75
				75	0	23.09	18.44	20.59	38.45	-17.86
	26915	836.5	QPSK	1	0	24.04	19.39	21.54	38.45	-16.91
				1	74	24.00	19.35	21.50	38.45	-16.95
				36	18	23.09	18.44	20.59	38.45	-17.86
				75	0	23.03	18.38	20.53	38.45	-17.92
	26965	841.5	QPSK	1	0	23.99	19.34	21.49	38.45	-16.96
				1	74	23.87	19.22	21.37	38.45	-17.08
				36	18	23.03	18.38	20.53	38.45	-17.92
				75	0	23.06	18.41	20.56	38.45	-17.89
	26865	831.5	16QAM	1	0	23.11	18.46	20.61	38.45	-17.84
				1	74	23.61	18.96	21.11	38.45	-17.34
				36	18	22.16	17.51	19.66	38.45	-18.79
				75	0	22.12	17.47	19.62	38.45	-18.83
	26915	836.5	16QAM	1	0	23.33	18.68	20.83	38.45	-17.62
				1	74	23.04	18.39	20.54	38.45	-17.91
				36	18	22.14	17.49	19.64	38.45	-18.81
				75	0	22.10	17.45	19.60	38.45	-18.85
	26965	841.5	16QAM	1	0	23.54	18.89	21.04	38.45	-17.41
				1	74	22.80	18.15	20.30	38.45	-18.15
				36	18	22.08	17.43	19.58	38.45	-18.87
				75	0	22.15	17.50	19.65	38.45	-18.8
	26865	831.5	64QAM	1	0	23.04	18.39	20.54	38.45	-17.91
				1	74	23.54	18.89	21.04	38.45	-17.41
				36	18	22.09	17.44	19.59	38.45	-18.86
				75	0	22.05	17.40	19.55	38.45	-18.9
	26915	836.5	64QAM	1	0	23.26	18.61	20.76	38.45	-17.69
				1	74	22.97	18.32	20.47	38.45	-17.98
				36	18	22.07	17.42	19.57	38.45	-18.88
				75	0	22.03	17.38	19.53	38.45	-18.92
	26965	841.5	64QAM	1	0	23.47	18.82	20.97	38.45	-17.48
				1	74	22.73	18.08	20.23	38.45	-18.22
				36	18	22.01	17.36	19.51	38.45	-18.94
				75	0	22.08	17.43	19.58	38.45	-18.87

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Antenna gain (dBi) -2.5

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26697	814.7	QPSK	1	0	23.94	19.29	21.44	50	-28.56
				1	5	23.97	19.32	21.47	50	-28.53
				3	2	23.93	19.28	21.43	50	-28.57
				6	0	22.93	18.28	20.43	50	-29.57
	26740	819	QPSK	1	0	23.94	19.29	21.44	50	-28.56
				1	5	23.92	19.27	21.42	50	-28.58
				3	2	24.03	19.38	21.53	50	-28.47
				6	0	23.00	18.35	20.50	50	-29.5
	26783	823.3	QPSK	1	0	23.78	19.13	21.28	50	-28.72
				1	5	23.80	19.15	21.30	50	-28.7
				3	2	23.98	19.33	21.48	50	-28.52
				6	0	22.93	18.28	20.43	50	-29.57
	26697	814.7	16QAM	1	0	23.04	18.39	20.54	50	-29.46
				1	5	23.06	18.41	20.56	50	-29.44
				3	2	22.94	18.29	20.44	50	-29.56
				6	0	22.03	17.38	19.53	50	-30.47
	26740	819	16QAM	1	0	23.30	18.65	20.80	50	-29.2
				1	5	23.36	18.71	20.86	50	-29.14
				3	2	23.08	18.43	20.58	50	-29.42
				6	0	22.08	17.43	19.58	50	-30.42
	26783	823.3	16QAM	1	0	23.05	18.40	20.55	50	-29.45
				1	5	23.01	18.36	20.51	50	-29.49
				3	2	23.04	18.39	20.54	50	-29.46
				6	0	21.99	17.34	19.49	50	-30.51
	26697	814.7	64QAM	1	0	21.87	17.22	19.37	50	-30.63
				1	5	22.11	17.46	19.61	50	-30.39
				3	2	21.96	17.31	19.46	50	-30.54
				6	0	20.92	16.27	18.42	50	-31.58
	26740	819	64QAM	1	0	22.12	17.47	19.62	50	-30.38
				1	5	22.18	17.53	19.68	50	-30.32
				3	2	22.25	17.60	19.75	50	-30.25
				6	0	20.99	16.34	18.49	50	-31.51
	26783	823.3	64QAM	1	0	22.23	17.58	19.73	50	-30.27
				1	5	22.15	17.50	19.65	50	-30.35
				3	2	22.23	17.58	19.73	50	-30.27
				6	0	20.94	16.29	18.44	50	-31.56

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Antenna gain (dBi) -2.5

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26705	815.5	QPSK	1	0	23.97	19.32	21.47	50	-28.53
				1	14	23.95	19.30	21.45	50	-28.55
				8	4	23.06	18.41	20.56	50	-29.44
				15	0	23.00	18.35	20.50	50	-29.5
	26740	819	QPSK	1	0	24.10	19.45	21.60	50	-28.4
				1	14	24.08	19.43	21.58	50	-28.42
				8	4	23.11	18.46	20.61	50	-29.39
				15	0	23.06	18.41	20.56	50	-29.44
	26775	822.5	QPSK	1	0	24.02	19.37	21.52	50	-28.48
				1	14	24.03	19.38	21.53	50	-28.47
				8	4	23.07	18.42	20.57	50	-29.43
				15	0	23.03	18.38	20.53	50	-29.47
	26705	815.5	16QAM	1	0	23.15	18.50	20.65	50	-29.35
				1	14	23.19	18.54	20.69	50	-29.31
				8	4	22.04	17.39	19.54	50	-30.46
				15	0	22.08	17.43	19.58	50	-30.42
	26740	819	16QAM	1	0	23.43	18.78	20.93	50	-29.07
				1	14	23.38	18.73	20.88	50	-29.12
				8	4	22.23	17.58	19.73	50	-30.27
				15	0	22.15	17.50	19.65	50	-30.35
	26775	822.5	16QAM	1	0	23.16	18.51	20.66	50	-29.34
				1	14	23.08	18.43	20.58	50	-29.42
				8	4	22.17	17.52	19.67	50	-30.33
				15	0	22.08	17.43	19.58	50	-30.42
	26705	815.5	64QAM	1	0	22.12	17.47	19.62	50	-30.38
				1	14	22.08	17.43	19.58	50	-30.42
				8	4	21.12	16.47	18.62	50	-31.38
				15	0	21.07	16.42	18.57	50	-31.43
	26740	819	64QAM	1	0	22.22	17.57	19.72	50	-30.28
				1	14	22.23	17.58	19.73	50	-30.27
				8	4	21.17	16.52	18.67	50	-31.33
				15	0	21.10	16.45	18.60	50	-31.4
	26775	822.5	64QAM	1	0	22.36	17.71	19.86	50	-30.14
				1	14	22.30	17.65	19.80	50	-30.2
				8	4	21.08	16.43	18.58	50	-31.42
				15	0	21.08	16.43	18.58	50	-31.42

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Antenna gain (dBi) -2.5

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26715	816.5	QPSK	1	0	24.07	19.42	21.57	50	-28.43
				1	24	24.05	19.40	21.55	50	-28.45
				12	6	23.09	18.44	20.59	50	-29.41
				25	0	23.05	18.40	20.55	50	-29.45
	26740	819	QPSK	1	0	24.00	19.35	21.50	50	-28.5
				1	24	24.00	19.35	21.50	50	-28.5
				12	6	23.17	18.52	20.67	50	-29.33
				25	0	23.16	18.51	20.66	50	-29.34
	26765	821.5	QPSK	1	0	24.00	19.35	21.50	50	-28.5
				1	24	24.02	19.37	21.52	50	-28.48
				12	6	23.10	18.45	20.60	50	-29.4
				25	0	23.05	18.40	20.55	50	-29.45
	26715	816.5	16QAM	1	0	23.07	18.42	20.57	50	-29.43
				1	24	23.05	18.40	20.55	50	-29.45
				12	6	22.09	17.44	19.59	50	-30.41
				25	0	22.10	17.45	19.60	50	-30.4
	26740	819	16QAM	1	0	23.03	18.38	20.53	50	-29.47
				1	24	22.88	18.23	20.38	50	-29.62
				12	6	22.16	17.51	19.66	50	-30.34
				25	0	22.13	17.48	19.63	50	-30.37
	26765	821.5	16QAM	1	0	23.48	18.83	20.98	50	-29.02
				1	24	23.41	18.76	20.91	50	-29.09
				12	6	22.11	17.46	19.61	50	-30.39
				25	0	22.13	17.48	19.63	50	-30.37
	26715	816.5	64QAM	1	0	21.88	17.23	19.38	50	-30.62
				1	24	22.03	17.38	19.53	50	-30.47
				12	6	21.12	16.47	18.62	50	-31.38
				25	0	21.10	16.45	18.60	50	-31.4
	26740	819	64QAM	1	0	22.28	17.63	19.78	50	-30.22
				1	24	22.36	17.71	19.86	50	-30.14
				12	6	21.16	16.51	18.66	50	-31.34
				25	0	21.17	16.52	18.67	50	-31.33
	26765	821.5	64QAM	1	0	22.02	17.37	19.52	50	-30.48
				1	24	22.13	17.48	19.63	50	-30.37
				12	6	21.18	16.53	18.68	50	-31.32
				25	0	21.18	16.53	18.68	50	-31.32

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Antenna gain (dBi) -2.5

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz

BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26740	819	QPSK	1	0	24.12	19.47	21.62	50	-28.38
				1	49	23.93	19.28	21.43	50	-28.57
				25	12	23.16	18.51	20.66	50	-29.34
				50	0	23.05	18.40	20.55	50	-29.45
	26740	819	16QAM	1	0	23.05	18.40	20.55	50	-29.45
				1	49	23.15	18.50	20.65	50	-29.35
				25	12	22.14	17.49	19.64	50	-30.36
				50	0	22.17	17.52	19.67	50	-30.33
	26740	819	64QAM	1	0	22.13	17.48	19.63	50	-30.37
				1	49	22.01	17.36	19.51	50	-30.49
				25	12	21.15	16.50	18.65	50	-31.35
				50	0	21.11	16.46	18.61	50	-31.39

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Antenna gain (dBi) 0.4

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	27685	2307.5	QPSK	1	0	23.25	23.65	24	-0.35
				1	24	23.17	23.57	24	-0.43
				12	6	22.02	22.42	24	-1.58
				25	0	22.16	22.56	24	-1.44
	27710	2310	QPSK	1	0	23.41	23.81	24	-0.19
				1	24	23.09	23.49	24	-0.51
				12	6	22.06	22.46	24	-1.54
				25	0	22.06	22.46	24	-1.54
	27735	2312.5	QPSK	1	0	23.22	23.62	24	-0.38
				1	24	23.21	23.61	24	-0.39
				12	6	22.18	22.58	24	-1.42
				25	0	22.16	22.56	24	-1.44
	27685	2307.5	16QAM	1	0	22.29	22.69	24	-1.31
				1	24	22.27	22.67	24	-1.33
				12	6	21.06	21.46	24	-2.54
				25	0	21.04	21.44	24	-2.56
	27710	2310	16QAM	1	0	22.25	22.65	24	-1.35
				1	24	22.40	22.80	24	-1.2
				12	6	21.19	21.59	24	-2.41
				25	0	21.13	21.53	24	-2.47
	27735	2312.5	16QAM	1	0	22.19	22.59	24	-1.41
				1	24	22.42	22.82	24	-1.18
				12	6	21.02	21.42	24	-2.58
				25	0	21.13	21.53	24	-2.47
	27685	2307.5	64QAM	1	0	22.14	22.54	24	-1.46
				1	24	22.28	22.68	24	-1.32
				12	6	21.01	21.41	24	-2.59
				25	0	21.05	21.45	24	-2.55
	27710	2310	64QAM	1	0	22.16	22.56	24	-1.44
				1	24	22.28	22.68	24	-1.32
				12	6	21.03	21.43	24	-2.57
				25	0	21.07	21.47	24	-2.53
	27735	2312.5	64QAM	1	0	22.06	22.46	24	-1.54
				1	24	22.31	22.71	24	-1.29
				12	6	21.15	21.55	24	-2.45
				25	0	21.09	21.49	24	-2.51

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Antenna gain (dBi) 0.4

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	27710	2310	QPSK	1	0	22.99	23.39	24	-0.61
				1	49	22.96	23.36	24	-0.64
				25	12	22.20	22.60	24	-1.4
				50	0	22.23	22.63	24	-1.37
	27710	2310	16QAM	1	0	22.44	22.84	24	-1.16
				1	49	22.43	22.83	24	-1.17
				25	12	21.22	21.62	24	-2.38
				50	0	21.26	21.66	24	-2.34
	27710	2310	64QAM	1	0	22.21	22.61	24	-1.39
				1	49	22.50	22.90	24	-1.1
				25	12	21.12	21.52	24	-2.48
				50	0	21.03	21.43	24	-2.57

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Antenna gain (dBi) 0.6

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	37775	2572.5	QPSK	1	0	23.97	24.57	33	-8.43
				1	24	23.54	24.14	33	-8.86
				12	6	22.63	23.23	33	-9.77
				25	0	22.74	23.34	33	-9.66
	38000	2595	QPSK	1	0	23.70	24.30	33	-8.7
				1	24	23.66	24.26	33	-8.74
				12	6	22.43	23.03	33	-9.97
				25	0	22.69	23.29	33	-9.71
	38225	2617.5	QPSK	1	0	23.59	24.19	33	-8.81
				1	24	23.45	24.05	33	-8.95
				12	6	22.39	22.99	33	-10.01
				25	0	22.54	23.14	33	-9.86
	37775	2572.5	16QAM	1	0	23.02	23.62	33	-9.38
				1	24	22.60	23.20	33	-9.8
				12	6	21.72	22.32	33	-10.68
				25	0	21.76	22.36	33	-10.64
	38000	2595	16QAM	1	0	23.05	23.65	33	-9.35
				1	24	22.77	23.37	33	-9.63
				12	6	21.48	22.08	33	-10.92
				25	0	21.67	22.27	33	-10.73
	38225	2617.5	16QAM	1	0	22.89	23.49	33	-9.51
				1	24	22.57	23.17	33	-9.83
				12	6	21.43	22.03	33	-10.97
				25	0	21.72	22.32	33	-10.68
	37775	2572.5	64QAM	1	0	22.87	23.47	33	-9.53
				1	24	22.62	23.22	33	-9.78
				12	6	21.67	22.27	33	-10.73
				25	0	21.65	22.25	33	-10.75
	38000	2595	64QAM	1	0	22.82	23.42	33	-9.58
				1	24	22.77	23.37	33	-9.63
				12	6	21.41	22.01	33	-10.99
				25	0	21.52	22.12	33	-10.88
	38225	2617.5	64QAM	1	0	22.93	23.53	33	-9.47
				1	24	22.73	23.33	33	-9.67
				12	6	21.49	22.09	33	-10.91
				25	0	21.53	22.13	33	-10.87

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Antenna gain (dBi) 0.6

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	37800	2575	QPSK	1	0	23.97	24.57	33	-8.43
				1	49	23.37	23.97	33	-9.03
				25	12	22.85	23.45	33	-9.55
				50	0	22.53	23.13	33	-9.87
	38000	2595	QPSK	1	0	23.62	24.22	33	-8.78
				1	49	23.47	24.07	33	-8.93
				25	12	22.57	23.17	33	-9.83
				50	0	22.56	23.16	33	-9.84
	38200	2615	QPSK	1	0	23.63	24.23	33	-8.77
				1	49	23.43	24.03	33	-8.97
				25	12	22.43	23.03	33	-9.97
				50	0	22.48	23.08	33	-9.92
	37800	2575	16QAM	1	0	23.09	23.69	33	-9.31
				1	49	22.66	23.26	33	-9.74
				25	12	21.62	22.22	33	-10.78
				50	0	21.70	22.30	33	-10.7
	38000	2595	16QAM	1	0	22.81	23.41	33	-9.59
				1	49	22.77	23.37	33	-9.63
				25	12	21.62	22.22	33	-10.78
				50	0	21.65	22.25	33	-10.75
	38200	2615	16QAM	1	0	22.79	23.39	33	-9.61
				1	49	22.67	23.27	33	-9.73
				25	12	21.45	22.05	33	-10.95
				50	0	21.63	22.23	33	-10.77
	37800	2575	64QAM	1	0	22.89	23.49	33	-9.51
				1	49	22.48	23.08	33	-9.92
				25	12	21.52	22.12	33	-10.88
				50	0	21.62	22.22	33	-10.78
	38000	2595	64QAM	1	0	22.94	23.54	33	-9.46
				1	49	22.62	23.22	33	-9.78
				25	12	21.41	22.01	33	-10.99
				50	0	21.49	22.09	33	-10.91
	38200	2615	64QAM	1	0	22.81	23.41	33	-9.59
				1	49	22.53	23.13	33	-9.87
				25	12	21.50	22.10	33	-10.9
				50	0	21.51	22.11	33	-10.89

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SGS Taiwan Ltd.

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Antenna gain (dBi) 0.6

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	37825	2577.5	QPSK	1	0	23.98	24.58	33	-8.42
				1	74	23.31	23.91	33	-9.09
				36	19	22.77	23.37	33	-9.63
				75	0	22.62	23.22	33	-9.78
	38000	2595	QPSK	1	0	23.54	24.14	33	-8.86
				1	74	23.67	24.27	33	-8.73
				36	19	22.43	23.03	33	-9.97
				75	0	22.48	23.08	33	-9.92
	38175	2612.5	QPSK	1	0	23.70	24.30	33	-8.7
				1	74	23.36	23.96	33	-9.04
				36	19	22.68	23.28	33	-9.72
				75	0	22.45	23.05	33	-9.95
	37825	2577.5	16QAM	1	0	23.12	23.72	33	-9.28
				1	74	22.63	23.23	33	-9.77
				36	19	21.54	22.14	33	-10.86
				75	0	21.50	22.10	33	-10.9
	38000	2595	16QAM	1	0	22.95	23.55	33	-9.45
				1	74	22.89	23.49	33	-9.51
				36	19	21.55	22.15	33	-10.85
				75	0	21.40	22.00	33	-11
	38175	2612.5	16QAM	1	0	22.88	23.48	33	-9.52
				1	74	22.76	23.36	33	-9.64
				36	19	21.46	22.06	33	-10.94
				75	0	21.44	22.04	33	-10.96
	37825	2577.5	64QAM	1	0	22.90	23.50	33	-9.5
				1	74	22.72	23.32	33	-9.68
				36	19	21.61	22.21	33	-10.79
				75	0	21.55	22.15	33	-10.85
	38000	2595	64QAM	1	0	22.81	23.41	33	-9.59
				1	74	22.54	23.14	33	-9.86
				36	19	21.52	22.12	33	-10.88
				75	0	21.32	21.92	33	-11.08
	38175	2612.5	64QAM	1	0	22.89	23.49	33	-9.51
				1	74	22.70	23.30	33	-9.7
				36	19	21.35	21.95	33	-11.05
				75	0	21.47	22.07	33	-10.93

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Antenna gain (dBi) 0.6

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	37850	2580	QPSK	1	0	23.99	24.59	33	-8.41
				1	99	23.56	24.16	33	-8.84
				50	25	22.87	23.47	33	-9.53
				100	0	22.80	23.40	33	-9.6
	38000	2595	QPSK	1	0	23.83	24.43	33	-8.57
				1	99	23.72	24.32	33	-8.68
				50	25	22.70	23.30	33	-9.7
				100	0	22.75	23.35	33	-9.65
	38150	2610	QPSK	1	0	23.78	24.38	33	-8.62
				1	99	23.58	24.18	33	-8.82
				50	25	22.69	23.29	33	-9.71
				100	0	22.69	23.29	33	-9.71
	37850	2580	16QAM	1	0	23.15	23.75	33	-9.25
				1	99	22.81	23.41	33	-9.59
				50	25	21.83	22.43	33	-10.57
				100	0	21.79	22.39	33	-10.61
	38000	2595	16QAM	1	0	23.06	23.66	33	-9.34
				1	99	22.90	23.50	33	-9.5
				50	25	21.75	22.35	33	-10.65
				100	0	21.69	22.29	33	-10.71
	38150	2610	16QAM	1	0	23.06	23.66	33	-9.34
				1	99	22.84	23.44	33	-9.56
				50	25	21.70	22.30	33	-10.7
				100	0	21.73	22.33	33	-10.67
	37850	2580	64QAM	1	0	23.07	23.67	33	-9.33
				1	99	22.73	23.33	33	-9.67
				50	25	21.75	22.35	33	-10.65
				100	0	21.71	22.31	33	-10.69
	38000	2595	64QAM	1	0	22.98	23.58	33	-9.42
				1	99	22.82	23.42	33	-9.58
				50	25	21.67	22.27	33	-10.73
				100	0	21.61	22.21	33	-10.79
	38150	2610	64QAM	1	0	22.98	23.58	33	-9.42
				1	99	22.76	23.36	33	-9.64
				50	25	21.62	22.22	33	-10.78
				100	0	21.69	22.29	33	-10.71

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Antenna gain (dBi) 1.3

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	39675	2498.5	QPSK	1	0	23.79	25.09	33	-7.91
				1	24	23.75	25.05	33	-7.95
				12	6	22.46	23.76	33	-9.24
				25	0	22.72	24.02	33	-8.98
	40620	2593	QPSK	1	0	23.52	24.82	33	-8.18
				1	24	23.45	24.75	33	-8.25
				12	6	22.46	23.76	33	-9.24
				25	0	22.42	23.72	33	-9.28
	41565	2687.5	QPSK	1	0	23.94	25.24	33	-7.76
				1	24	23.95	25.25	33	-7.75
				12	6	22.75	24.05	33	-8.95
				25	0	22.68	23.98	33	-9.02
	39675	2498.5	16QAM	1	0	23.01	24.31	33	-8.69
				1	24	22.78	24.08	33	-8.92
				12	6	21.70	23.00	33	-10
				25	0	21.52	22.82	33	-10.18
	40620	2593	16QAM	1	0	23.04	24.34	33	-8.66
				1	24	22.81	24.11	33	-8.89
				12	6	21.63	22.93	33	-10.07
				25	0	21.68	22.98	33	-10.02
	41565	2687.5	16QAM	1	0	23.47	24.77	33	-8.23
				1	24	23.43	24.73	33	-8.27
				12	6	21.81	23.11	33	-9.89
				25	0	21.85	23.15	33	-9.85
	39675	2498.5	64QAM	1	0	21.68	22.98	33	-10.02
				1	24	22.86	24.16	33	-8.84
				12	6	21.69	22.99	33	-10.01
				25	0	21.39	22.69	33	-10.31
	40620	2593	64QAM	1	0	22.92	24.22	33	-8.78
				1	24	22.67	23.97	33	-9.03
				12	6	21.41	22.71	33	-10.29
				25	0	21.61	22.91	33	-10.09
	41565	2687.5	64QAM	1	0	23.38	24.68	33	-8.32
				1	24	23.21	24.51	33	-8.49
				12	6	21.56	22.86	33	-10.14
				25	0	21.64	22.94	33	-10.06

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Antenna gain (dBi) 1.3

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	39700	2501	QPSK	1	0	23.77	25.07	33	-7.93
				1	49	23.67	24.97	33	-8.03
				25	12	22.40	23.70	33	-9.3
				50	0	22.59	23.89	33	-9.11
	40620	2593	QPSK	1	0	23.70	25.00	33	-8
				1	49	23.48	24.78	33	-8.22
				25	12	22.52	23.82	33	-9.18
				50	0	22.36	23.66	33	-9.34
	41540	2685	QPSK	1	0	23.93	25.23	33	-7.77
				1	49	23.97	25.27	33	-7.73
				25	12	22.73	24.03	33	-8.97
				50	0	22.82	24.12	33	-8.88
	39700	2501	16QAM	1	0	22.77	24.07	33	-8.93
				1	49	22.94	24.24	33	-8.76
				25	12	21.75	23.05	33	-9.95
				50	0	21.70	23.00	33	-10
	40620	2593	16QAM	1	0	22.99	24.29	33	-8.71
				1	49	22.81	24.11	33	-8.89
				25	12	21.62	22.92	33	-10.08
				50	0	21.52	22.82	33	-10.18
	41540	2685	16QAM	1	0	23.48	24.78	33	-8.22
				1	49	23.47	24.77	33	-8.23
				25	12	21.71	23.01	33	-9.99
				50	0	21.81	23.11	33	-9.89
	39700	2501	64QAM	1	0	22.80	24.10	33	-8.9
				1	49	22.79	24.09	33	-8.91
				25	12	21.61	22.91	33	-10.09
				50	0	21.50	22.80	33	-10.2
	40620	2593	64QAM	1	0	22.94	24.24	33	-8.76
				1	49	22.52	23.82	33	-9.18
				25	12	21.52	22.82	33	-10.18
				50	0	21.41	22.71	33	-10.29
	41540	2685	64QAM	1	0	23.42	24.72	33	-8.28
				1	49	23.27	24.57	33	-8.43
				25	12	21.55	22.85	33	-10.15
				50	0	21.70	23.00	33	-10

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Antenna gain (dBi) 1.3

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	39725	2503.5	QPSK	1	0	23.82	25.12	33	-7.88
				1	74	23.55	24.85	33	-8.15
				36	18	22.50	23.80	33	-9.2
				75	0	22.55	23.85	33	-9.15
	40620	2593	QPSK	1	0	23.62	24.92	33	-8.08
				1	74	23.46	24.76	33	-8.24
				36	18	22.52	23.82	33	-9.18
				75	0	22.48	23.78	33	-9.22
	41515	2682.5	QPSK	1	0	23.98	25.28	33	-7.72
				1	74	23.98	25.28	33	-7.72
				36	18	22.72	24.02	33	-8.98
				75	0	22.90	24.20	33	-8.8
	39725	2503.5	16QAM	1	0	23.00	24.30	33	-8.7
				1	74	22.68	23.98	33	-9.02
				36	18	21.78	23.08	33	-9.92
				75	0	21.63	22.93	33	-10.07
	40620	2593	16QAM	1	0	23.00	24.30	33	-8.7
				1	74	22.82	24.12	33	-8.88
				36	18	21.64	22.94	33	-10.06
				75	0	21.54	22.84	33	-10.16
	41515	2682.5	16QAM	1	0	23.41	24.71	33	-8.29
				1	74	23.47	24.77	33	-8.23
				36	18	21.67	22.97	33	-10.03
				75	0	21.76	23.06	33	-9.94
	39725	2503.5	64QAM	1	0	22.67	23.97	33	-9.03
				1	74	22.60	23.90	33	-9.1
				36	18	21.61	22.91	33	-10.09
				75	0	21.45	22.75	33	-10.25
	40620	2593	64QAM	1	0	22.80	24.10	33	-8.9
				1	74	22.60	23.90	33	-9.1
				36	18	21.59	22.89	33	-10.11
				75	0	21.50	22.80	33	-10.2
	41515	2682.5	64QAM	1	0	23.46	24.76	33	-8.24
				1	74	23.36	24.66	33	-8.34
				36	18	21.67	22.97	33	-10.03
				75	0	21.71	23.01	33	-9.99

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Antenna gain (dBi) 1.3

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	39750	2506	QPSK	1	0	23.84	25.14	33	-7.86
				1	99	23.77	25.07	33	-7.93
				50	25	22.65	23.95	33	-9.05
				100	0	22.74	24.04	33	-8.96
	40620	2593	QPSK	1	0	23.75	25.05	33	-7.95
				1	99	23.49	24.79	33	-8.21
				50	25	22.72	24.02	33	-8.98
				100	0	22.64	23.94	33	-9.06
	41490	2680	QPSK	1	0	23.99	25.29	33	-7.71
				1	99	23.98	25.28	33	-7.72
				50	25	22.95	24.25	33	-8.75
				100	0	22.98	24.28	33	-8.72
	39750	2506	16QAM	1	0	23.02	24.32	33	-8.68
				1	99	22.96	24.26	33	-8.74
				50	25	21.80	23.10	33	-9.9
				100	0	21.72	23.02	33	-9.98
	40620	2593	16QAM	1	0	23.06	24.36	33	-8.64
				1	99	22.89	24.19	33	-8.81
				50	25	21.71	23.01	33	-9.99
				100	0	21.70	23.00	33	-10
	41490	2680	16QAM	1	0	23.45	24.75	33	-8.25
				1	99	23.48	24.78	33	-8.22
				50	25	21.94	23.24	33	-9.76
				100	0	21.93	23.23	33	-9.77
	39750	2506	64QAM	1	0	22.93	24.23	33	-8.77
				1	99	22.87	24.17	33	-8.83
				50	25	21.71	23.01	33	-9.99
				100	0	21.63	22.93	33	-10.07
	40620	2593	64QAM	1	0	22.97	24.27	33	-8.73
				1	99	22.80	24.10	33	-8.9
				50	25	21.62	22.92	33	-10.08
				100	0	21.61	22.91	33	-10.09
	41490	2680	64QAM	1	0	23.46	24.76	33	-8.24
				1	99	23.49	24.79	33	-8.21
				50	25	21.85	23.15	33	-9.85
				100	0	21.84	23.14	33	-9.86

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Antenna gain (dBi) 2.4

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	131979	1710.7	QPSK	1	0	24.48	26.88	30	-3.12
				1	5	24.09	26.49	30	-3.51
				3	2	23.20	25.60	30	-4.4
				6	0	22.83	25.23	30	-4.77
	132322	1745	QPSK	1	0	24.00	26.40	30	-3.6
				1	5	24.12	26.52	30	-3.48
				3	2	23.15	25.55	30	-4.45
				6	0	22.95	25.35	30	-4.65
	132665	1779.3	QPSK	1	0	24.42	26.82	30	-3.18
				1	5	24.07	26.47	30	-3.53
				3	2	23.13	25.53	30	-4.47
				6	0	23.00	25.40	30	-4.6
	131979	1710.7	16QAM	1	0	23.43	25.83	30	-4.17
				1	5	23.41	25.81	30	-4.19
				3	2	22.20	24.60	30	-5.4
				6	0	21.85	24.25	30	-5.75
	132322	1745	16QAM	1	0	23.44	25.84	30	-4.16
				1	5	23.13	25.53	30	-4.47
				3	2	22.31	24.71	30	-5.29
				6	0	21.76	24.16	30	-5.84
	132665	1779.3	16QAM	1	0	23.49	25.89	30	-4.11
				1	5	23.45	25.85	30	-4.15
				3	2	22.23	24.63	30	-5.37
				6	0	21.80	24.20	30	-5.8
	131979	1710.7	64QAM	1	0	23.44	25.84	30	-4.16
				1	5	23.30	25.70	30	-4.3
				3	2	22.04	24.44	30	-5.56
				6	0	21.68	24.08	30	-5.92
	132322	1745	64QAM	1	0	23.46	25.86	30	-4.14
				1	5	23.23	25.63	30	-4.37
				3	2	22.24	24.64	30	-5.36
				6	0	21.62	24.02	30	-5.98
	132665	1779.3	64QAM	1	0	23.38	25.78	30	-4.22
				1	5	23.27	25.67	30	-4.33
				3	2	22.13	24.53	30	-5.47
				6	0	21.81	24.21	30	-5.79

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Antenna gain (dBi) 2.4

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	131987	1711.5	QPSK	1	0	24.36	26.76	30	-3.24
				1	14	24.08	26.48	30	-3.52
				8	4	23.20	25.60	30	-4.4
				15	0	22.79	25.19	30	-4.81
	132322	1745	QPSK	1	0	24.06	26.46	30	-3.54
				1	14	24.10	26.50	30	-3.5
				8	4	23.30	25.70	30	-4.3
				15	0	22.92	25.32	30	-4.68
	132657	1778.5	QPSK	1	0	24.27	26.67	30	-3.33
				1	14	24.22	26.62	30	-3.38
				8	4	23.21	25.61	30	-4.39
				15	0	22.86	25.26	30	-4.74
	131987	1711.5	16QAM	1	0	23.39	25.79	30	-4.21
				1	14	23.42	25.82	30	-4.18
				8	4	22.03	24.43	30	-5.57
				15	0	21.72	24.12	30	-5.88
	132322	1745	16QAM	1	0	23.33	25.73	30	-4.27
				1	14	23.34	25.74	30	-4.26
				8	4	22.24	24.64	30	-5.36
				15	0	21.76	24.16	30	-5.84
	132657	1778.5	16QAM	1	0	23.42	25.82	30	-4.18
				1	14	23.44	25.84	30	-4.16
				8	4	22.15	24.55	30	-5.45
				15	0	22.03	24.43	30	-5.57
	131987	1711.5	64QAM	1	0	23.41	25.81	30	-4.19
				1	14	23.43	25.83	30	-4.17
				8	4	22.15	24.55	30	-5.45
				15	0	21.58	23.98	30	-6.02
	132322	1745	64QAM	1	0	23.40	25.80	30	-4.2
				1	14	23.09	25.49	30	-4.51
				8	4	22.07	24.47	30	-5.53
				15	0	21.78	24.18	30	-5.82
	132657	1778.5	64QAM	1	0	23.41	25.81	30	-4.19
				1	14	23.34	25.74	30	-4.26
				8	4	22.18	24.58	30	-5.42
				15	0	21.73	24.13	30	-5.87

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Antenna gain (dBi) 2.4

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	131997	1712.5	QPSK	1	0	24.23	26.63	30	-3.37
				1	24	24.05	26.45	30	-3.55
				12	6	23.11	25.51	30	-4.49
				25	0	22.71	25.11	30	-4.89
	132322	1745	QPSK	1	0	24.05	26.45	30	-3.55
				1	24	23.95	26.35	30	-3.65
				12	6	23.38	25.78	30	-4.22
				25	0	22.96	25.36	30	-4.64
	132647	1777.5	QPSK	1	0	24.37	26.77	30	-3.23
				1	24	24.07	26.47	30	-3.53
				12	6	23.34	25.74	30	-4.26
				25	0	23.00	25.40	30	-4.6
	131997	1712.5	16QAM	1	0	23.42	25.82	30	-4.18
				1	24	23.40	25.80	30	-4.2
				12	6	22.21	24.61	30	-5.39
				25	0	21.69	24.09	30	-5.91
	132322	1745	16QAM	1	0	23.38	25.78	30	-4.22
				1	24	23.21	25.61	30	-4.39
				12	6	22.09	24.49	30	-5.51
				25	0	21.94	24.34	30	-5.66
	132647	1777.5	16QAM	1	0	23.40	25.80	30	-4.2
				1	24	23.44	25.84	30	-4.16
				12	6	22.31	24.71	30	-5.29
				25	0	21.92	24.32	30	-5.68
	131997	1712.5	64QAM	1	0	23.43	25.83	30	-4.17
				1	24	23.45	25.85	30	-4.15
				12	6	22.01	24.41	30	-5.59
				25	0	21.80	24.20	30	-5.8
	132322	1745	64QAM	1	0	23.43	25.83	30	-4.17
				1	24	23.07	25.47	30	-4.53
				12	6	22.19	24.59	30	-5.41
				25	0	21.67	24.07	30	-5.93
	132647	1777.5	64QAM	1	0	23.48	25.88	30	-4.12
				1	24	23.31	25.71	30	-4.29
				12	6	22.07	24.47	30	-5.53
				25	0	21.78	24.18	30	-5.82

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Antenna gain (dBi) 2.4

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	132022	1715	QPSK	1	0	24.32	26.72	30	-3.28
				1	49	24.22	26.62	30	-3.38
				25	12	23.00	25.40	30	-4.6
				50	0	22.73	25.13	30	-4.87
	132322	1745	QPSK	1	0	24.20	26.60	30	-3.4
				1	49	24.09	26.49	30	-3.51
				25	12	23.31	25.71	30	-4.29
				50	0	22.81	25.21	30	-4.79
	132622	1775	QPSK	1	0	24.45	26.85	30	-3.15
				1	49	24.19	26.59	30	-3.41
				25	12	23.17	25.57	30	-4.43
				50	0	23.01	25.41	30	-4.59
	132022	1715	16QAM	1	0	23.45	25.85	30	-4.15
				1	49	23.45	25.85	30	-4.15
				25	12	22.25	24.65	30	-5.35
				50	0	21.70	24.10	30	-5.9
	132322	1745	16QAM	1	0	23.49	25.89	30	-4.11
				1	49	23.32	25.72	30	-4.28
				25	12	22.32	24.72	30	-5.28
				50	0	21.80	24.20	30	-5.8
	132622	1775	16QAM	1	0	23.48	25.88	30	-4.12
				1	49	23.43	25.83	30	-4.17
				25	12	22.19	24.59	30	-5.41
				50	0	21.81	24.21	30	-5.79
	132022	1715	64QAM	1	0	23.40	25.80	30	-4.2
				1	49	23.49	25.89	30	-4.11
				25	12	21.93	24.33	30	-5.67
				50	0	21.70	24.10	30	-5.9
	132322	1745	64QAM	1	0	23.38	25.78	30	-4.22
				1	49	23.20	25.60	30	-4.4
				25	12	22.09	24.49	30	-5.51
				50	0	21.76	24.16	30	-5.84
	132622	1775	64QAM	1	0	23.47	25.87	30	-4.13
				1	49	23.36	25.76	30	-4.24
				25	12	21.93	24.33	30	-5.67
				50	0	21.91	24.31	30	-5.69

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Antenna gain (dBi) 2.4

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	132047	1717.5	QPSK	1	0	24.37	26.77	30	-3.23
				1	74	24.03	26.43	30	-3.57
				36	18	23.18	25.58	30	-4.42
				75	0	22.82	25.22	30	-4.78
	132322	1745	QPSK	1	0	24.21	26.61	30	-3.39
				1	74	23.91	26.31	30	-3.69
				36	18	23.14	25.54	30	-4.46
				75	0	22.86	25.26	30	-4.74
	132597	1772.5	QPSK	1	0	24.43	26.83	30	-3.17
				1	74	24.15	26.55	30	-3.45
				36	18	23.21	25.61	30	-4.39
				75	0	23.09	25.49	30	-4.51
	132047	1717.5	16QAM	1	0	23.46	25.86	30	-4.14
				1	74	23.43	25.83	30	-4.17
				36	18	22.08	24.48	30	-5.52
				75	0	21.87	24.27	30	-5.73
	132322	1745	16QAM	1	0	23.40	25.80	30	-4.2
				1	74	23.23	25.63	30	-4.37
				36	18	22.17	24.57	30	-5.43
				75	0	22.03	24.43	30	-5.57
	132597	1772.5	16QAM	1	0	23.42	25.82	30	-4.18
				1	74	23.35	25.75	30	-4.25
				36	18	22.19	24.59	30	-5.41
				75	0	22.00	24.40	30	-5.6
	132047	1717.5	64QAM	1	0	23.49	25.89	30	-4.11
				1	74	23.44	25.84	30	-4.16
				36	18	22.03	24.43	30	-5.57
				75	0	21.59	23.99	30	-6.01
	132322	1745	64QAM	1	0	23.44	25.84	30	-4.16
				1	74	23.02	25.42	30	-4.58
				36	18	22.15	24.55	30	-5.45
				75	0	21.66	24.06	30	-5.94
	132597	1772.5	64QAM	1	0	23.47	25.87	30	-4.13
				1	74	23.35	25.75	30	-4.25
				36	18	22.15	24.55	30	-5.45
				75	0	21.92	24.32	30	-5.68

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Antenna gain (dBi) 2.4

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	132072	1720	QPSK	1	0	24.49	26.89	30	-3.11
				1	99	24.24	26.64	30	-3.36
				50	25	23.21	25.61	30	-4.39
				100	0	22.95	25.35	30	-4.65
	132322	1745	QPSK	1	0	24.28	26.68	30	-3.32
				1	99	24.15	26.55	30	-3.45
				50	25	23.39	25.79	30	-4.21
				100	0	23.00	25.40	30	-4.6
	132572	1770	QPSK	1	0	24.47	26.87	30	-3.13
				1	99	24.23	26.63	30	-3.37
				50	25	23.43	25.83	30	-4.17
				100	0	23.12	25.52	30	-4.48
	132072	1720	16QAM	1	0	23.46	25.86	30	-4.14
				1	99	23.41	25.81	30	-4.19
				50	25	22.31	24.71	30	-5.29
				100	0	21.98	24.38	30	-5.62
	132322	1745	16QAM	1	0	23.41	25.81	30	-4.19
				1	99	23.37	25.77	30	-4.23
				50	25	22.36	24.76	30	-5.24
				100	0	22.03	24.43	30	-5.57
	132572	1770	16QAM	1	0	23.44	25.84	30	-4.16
				1	99	23.47	25.87	30	-4.13
				50	25	22.34	24.74	30	-5.26
				100	0	22.06	24.46	30	-5.54
	132072	1720	64QAM	1	0	23.44	25.84	30	-4.16
				1	99	23.39	25.79	30	-4.21
				50	25	22.19	24.59	30	-5.41
				100	0	21.86	24.26	30	-5.74
	132322	1745	64QAM	1	0	23.49	25.89	30	-4.11
				1	99	23.25	25.65	30	-4.35
				50	25	22.24	24.64	30	-5.36
				100	0	21.91	24.31	30	-5.69
	132572	1770	64QAM	1	0	23.42	25.82	30	-4.18
				1	99	23.45	25.85	30	-4.15
				50	25	22.22	24.62	30	-5.38
				100	0	21.94	24.34	30	-5.66

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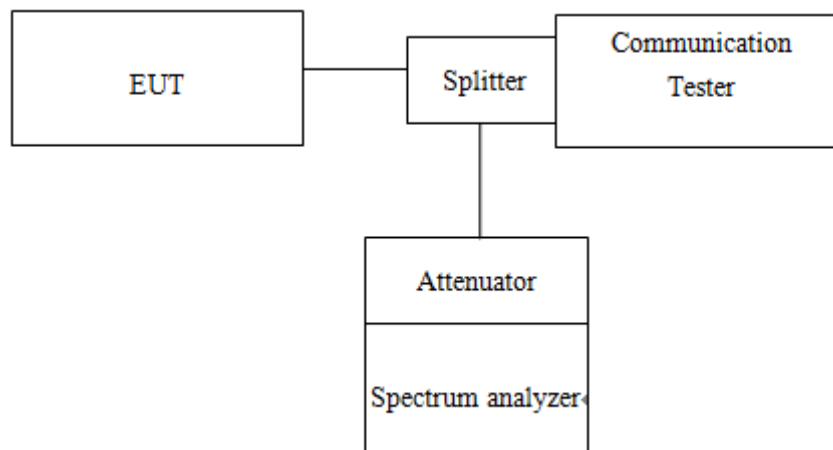
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7. OCCUPIED BANDWIDTH MEASUREMENT

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

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2019	05/30/2020
Radio Communication Analyer	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Attenuator	Marvelous	MVE2213-10	RF31	12/25/2018	12/24/2019
Splitter	Marvelous	MVE8576	RF38	12/25/2018	12/24/2019
DC Block	PASTERNAK	PE8210	RF81	12/25/2018	12/24/2019
Coaxial Cables	Woken	00100A1F1A185C	RF220	12/25/2018	12/24/2019

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7.5. Measurement Result

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.11950	4.11550	4.10760	4.678	4.672	4.665
1880.00	9400	4.12990	4.12120	4.11070	4.668	4.670	4.681
1907.60	9538	4.12330	4.11540	4.12010	4.659	4.675	4.662

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.12450	4.11810	4.11850	4.686	4.681	4.700
836.60	4183	4.12320	4.12180	4.12010	4.686	4.686	4.687
846.60	4233	4.11580	4.09900	4.11110	4.692	4.655	4.662

LTE BAND 2 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1850.7	18607	1.0946	1.0980	1.0947	1.236	1.240	1.237
1880.0	18900	1.0946	1.0943	1.0961	1.237	1.236	1.242
1909.3	19193	1.0939	1.0968	1.0974	1.234	1.239	1.238

LTE BAND 2 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1851.5	18615	2.7014	2.6988	2.7081	2.986	3.014	3.011
1880.0	18900	2.6996	2.7021	2.7065	2.995	3.009	3.016
1908.5	19185	2.6994	2.7000	2.7078	3.012	3.010	3.011

LTE BAND 2 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1852.5	18625	4.4981	4.5041	4.4983	4.993	4.957	4.973
1880.0	18900	4.4995	4.5050	4.5005	4.992	4.994	4.967
1907.5	19175	4.4990	4.5007	4.4972	5.009	4.979	4.973

LTE BAND 2 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1855.0	18650	9.0088	8.9584	8.9825	9.824	9.730	9.851
1880.0	18900	9.0078	8.9627	8.9891	9.826	9.803	9.821
1905.0	19150	8.9999	8.9533	8.9857	9.818	9.780	9.856

LTE BAND 2 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1857.5	18675	13.470	13.446	13.462	14.637	14.733	14.699
1880.0	18900	13.471	13.457	13.486	14.631	14.725	14.721
1902.5	19125	13.468	13.461	13.477	14.729	14.778	14.696

LTE BAND 2 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1860.0	18700	17.910	17.943	17.930	19.431	19.484	19.373
1880.0	18900	17.926	17.964	17.940	19.441	19.518	19.476
1900.0	19100	17.931	17.960	17.941	19.519	19.524	19.583

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LTE BAND 4 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1710.7	19957	1.0962	1.0970	1.0948	1.239	1.245	1.235
1732.5	20175	1.0948	1.0973	1.0965	1.240	1.236	1.237
1754.3	20393	1.0964	1.0982	1.0964	1.241	1.244	1.237

LTE BAND 4 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1711.5	19965	2.6999	2.7018	2.7060	3.001	3.021	2.997
1732.5	20175	2.6959	2.7023	2.7039	2.991	3.002	2.994
1753.5	20385	2.6985	2.7033	2.7030	2.996	3.015	2.994

LTE BAND 4 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1712.5	19957	4.5039	4.5061	4.5103	5.004	4.987	4.981
1732.5	20175	4.5033	4.5056	4.5071	4.991	4.970	4.993
1752.5	20375	4.5011	4.5021	4.5063	5.001	4.965	4.980

LTE BAND 4 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1715.0	20000	9.0145	8.9648	8.9799	9.818	9.753	9.835
1732.5	20175	9.0003	8.9570	8.9890	9.822	9.804	9.808
1750.0	20350	9.0040	8.9606	8.9756	9.843	9.755	9.825

LTE BAND 4 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1717.5	20025	13.494	13.483	13.458	14.715	14.754	14.776
1732.5	20175	13.479	13.451	13.450	14.759	14.746	14.694
1747.5	20325	13.494	13.475	13.463	14.713	14.635	14.694

LTE BAND 4 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1720.0	20050	17.938	17.975	17.998	19.533	19.503	19.505
1732.5	20175	17.918	17.943	17.934	19.484	19.577	19.557
1745.0	20300	17.942	17.965	17.944	19.526	19.550	19.509

LTE BAND 5 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
824.7	20407	1.0946	1.0958	1.0950	1.238	1.240	1.236
836.5	20525	1.0937	1.0946	1.0949	1.234	1.240	1.235
848.3	20643	1.0951	1.0956	1.0941	1.237	1.235	1.233

LTE BAND 5 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
825.5	20415	2.7097	2.7043	2.7032	2.956	3.012	3.004
836.5	20525	2.7001	2.6980	2.7032	2.996	3.000	2.986
847.5	20635	2.6977	2.7015	5.9488	3.004	3.000	6.000

LTE BAND 5 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
826.5	20425	4.5015	4.5049	4.5130	4.986	4.964	4.996
836.5	20525	4.5017	4.5022	4.5023	4.979	5.005	4.956
846.5	20625	4.4994	4.4965	4.5066	4.981	5.000	4.934

LTE BAND 5 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
829.0	20450	8.9990	8.9681	8.9695	9.832	9.793	9.838
836.5	20525	9.0026	8.9517	8.9732	9.796	9.773	9.822
844.0	20600	8.9860	8.9556	8.9865	9.839	9.760	9.840

LTE BAND 7 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2502.5	20775	4.4948	4.5078	4.4985	4.979	4.985	4.920
2535.0	21100	4.5006	4.5006	4.5054	4.991	4.984	4.989
2567.5	21425	4.5013	4.4991	4.5106	4.985	4.995	5.008

LTE BAND 7 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2505.0	20800	8.9963	8.9492	8.9717	9.740	9.785	9.794
2535.0	21100	8.9968	8.9540	8.9768	9.799	9.794	9.821
2565.0	21400	9.0044	8.9572	8.9654	9.868	9.760	9.820

LTE BAND 7 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2507.5	20825	13.454	13.419	13.376	14.571	14.656	14.124
2535.0	21100	13.470	13.435	13.420	14.652	14.647	14.707
2562.5	21375	13.470	13.444	13.445	14.665	14.655	14.709

LTE BAND 7 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2510.0	20850	17.924	17.915	17.917	19.504	19.461	19.331
2535.0	21100	17.897	17.897	17.888	19.436	19.349	19.488
2560.0	21350	17.928	17.957	17.952	19.506	19.462	19.529

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LTE BAND 12 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
699.7	23017	1.0927	1.0974	1.0946	1.224	1.237	1.236
707.5	23095	1.0926	1.0957	1.0946	1.236	1.237	1.234
715.3	23173	1.0943	1.0963	1.0942	1.235	1.240	1.238

LTE BAND 12 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
700.5	23025	2.6990	2.6990	2.7088	2.997	3.008	3.015
707.5	23095	2.7006	2.6972	2.7073	2.997	2.963	3.003
714.5	23165	2.6973	2.6974	2.7032	2.994	3.007	2.950

LTE BAND 12 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
701.5	23035	4.5075	4.5020	4.4959	4.961	4.958	4.969
707.5	23095	4.5105	4.5038	4.5034	4.990	5.000	4.957
713.5	23155	4.5084	4.4983	4.4955	4.960	4.984	4.962

LTE BAND 12 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
704.0	23060	8.9950	8.9501	8.9677	9.799	9.758	9.793
707.5	23095	9.0133	8.9794	9.0030	9.852	9.803	9.830
711.0	23130	9.0164	8.9654	8.9837	9.857	9.753	9.867

LTE BAND 13 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
779.5	23205	4.4883	4.4902	4.4946	4.946	4.910	4.950
782.0	23230	4.5094	4.5067	4.5095	4.965	4.989	4.965
784.5	23255	4.5000	4.5075	4.5069	4.997	4.962	4.982

LTE BAND 13 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
782.0	23230	8.987	8.952	8.967	9.722	9.751	9.819

LTE BAND 14 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
790.5	23305	4.4969	4.5012	4.4970	4.985	4.966	4.955
793.0	23330	4.4998	4.4977	4.5000	4.963	4.982	4.955
795.5	23355	4.5003	4.5049	4.5135	4.987	4.968	4.982

LTE BAND 14 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
793.0	23330	8.975	8.934	8.968	9.789	9.790	9.751

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LTE BAND 25 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1850.7	26047	1.0948	1.0968	1.0972	1.239	1.237	1.233
1882.5	26365	1.0948	1.0940	1.0961	1.240	1.241	1.236
1914.3	26683	1.0946	0.0000	0.0000	1.237	0.000	0.000

LTE BAND 25 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1851.5	26055	2.7009	2.6992	2.7045	3.003	3.017	3.004
1882.5	26365	2.6988	2.7009	2.7048	2.995	3.013	2.991
1913.5	26675	2.7061	2.7008	2.7034	3.016	3.011	2.982

LTE BAND 25 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1852.5	26065	4.4990	4.5018	4.5108	4.974	4.975	4.991
1882.5	26365	4.5011	4.5005	4.5074	5.007	4.984	4.981
1912.5	26665	4.5018	4.5048	4.5105	4.995	5.003	4.996

LTE BAND 25 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1855.0	26090	8.9820	8.9570	8.9850	9.802	9.749	9.802
1882.5	26365	8.9999	8.9582	8.9858	9.847	9.781	9.820
1910.0	26640	8.9947	8.9590	8.9769	9.843	9.755	9.836

LTE BAND 25 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1857.5	26115	13.472	13.449	13.433	14.673	14.759	14.671
1882.5	26365	13.455	13.457	13.447	14.722	14.805	14.756
1907.5	26615	13.479	13.436	13.439	14.723	14.687	14.633

LTE BAND 25 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1860.0	26140	17.9140	17.9280	17.9070	19.468	19.433	19.466
1882.5	26365	17.9270	17.9580	17.9450	19.496	19.489	19.485
1905.0	26590	17.8820	17.9310	17.9310	19.382	19.505	19.442

LTE BAND 26 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
824.7	26797	1.0945	1.0960	1.0948	1.244	1.242	1.238
836.5	26915	1.0943	1.1006	1.0951	1.339	1.252	1.233
848.3	27033	1.0953	1.1012	1.0950	1.234	1.257	1.232

LTE BAND 26 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
825.5	26805	2.7022	2.7023	2.7053	3.001	3.016	2.990
836.5	26915	2.6968	2.7085	2.7033	2.996	2.991	2.995
847.5	27025	2.6961	2.6998	2.7035	3.000	3.012	2.993

LTE BAND 26 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
826.5	26815	4.5039	4.5062	4.5057	4.966	4.991	4.980
836.5	26915	4.5017	4.5058	4.4990	4.982	4.969	4.981
846.5	27015	4.5011	4.4984	4.5090	4.984	4.963	4.966

LTE BAND 26 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
829.0	26840	9.0090	8.9623	8.9833	9.843	9.793	9.823
836.5	26915	8.9943	8.9564	8.9715	9.804	9.728	9.806
844.0	26990	9.0069	8.9472	8.9790	9.850	9.774	9.800

LTE BAND 26 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
831.5	26865	13.472	13.454	11.697	14.718	14.735	12.407
836.5	26915	13.450	13.437	13.431	14.676	14.735	14.773
841.5	26965	13.486	13.460	13.432	14.664	14.666	14.761

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LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
814.7	26697	1.0913	1.0977	1.0936	1.238	1.243	1.246
819.0	26740	1.0886	1.0977	1.0935	1.234	1.243	1.244
823.3	26783	1.0895	1.0972	1.0933	1.237	1.240	1.242

LTE BAND 26 for part 90S Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
815.5	26705	2.7009	2.7029	2.7055	3.016	3.003	2.998
819.0	26740	2.6949	2.7012	2.7025	2.988	3.015	2.988
822.5	26775	2.6972	2.6987	2.6996	2.991	3.008	2.986

LTE BAND 26 for part 90S Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
816.5	26715	4.5002	4.4967	4.5028	4.991	4.983	4.963
819.0	26740	4.4947	4.5028	4.5051	4.977	4.948	4.982
821.5	26765	4.5005	4.5021	4.5088	4.993	4.980	4.978

LTE BAND 26 for part 90S Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
819.0	26740	8.9944	8.9448	8.9655	9.787	9.767	9.799

LTE BAND 30 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2307.5	27685	4.4964	4.5013	4.4936	4.980	4.985	4.974
2310.0	27710	4.4991	4.5042	4.4975	5.014	4.998	4.978
2312.5	27735	4.5001	4.4968	4.4946	4.980	4.987	4.956

LTE BAND 30 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	16QAM	QPSK	64QAM
2310.0	27710	9.0089	8.9573	8.9894	9.849	9.766	9.792

LTE BAND 38 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2572.5	37775	4.5039	4.5044	4.4991	4.989	4.975	4.946
2595.0	38000	4.5044	4.5064	4.5073	4.980	4.978	4.952
2617.5	38225	4.5048	4.5060	4.4970	4.985	4.940	4.938

LTE BAND 38 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2575.0	37800	8.9744	8.9574	8.9733	9.720	9.730	9.827
2595.0	38000	8.9623	8.9569	8.9819	9.762	9.759	9.771
2615.0	38200	8.9639	8.9565	8.9772	9.731	9.765	9.810

LTE BAND 38 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2577.5	37825	13.450	13.470	13.442	14.621	14.717	14.702
2595.0	38000	13.497	13.464	13.444	14.649	14.814	14.657
2612.5	38175	13.478	13.476	13.437	14.614	14.766	14.715

LTE BAND 38 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2580.0	37850	18.236	17.938	17.914	37.579	19.430	19.448
2595.0	38000	18.116	17.925	17.923	36.905	19.449	19.411
2610.0	38150	17.923	17.909	17.902	19.371	19.493	19.404

LTE BAND 41 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2498.5	39675	4.5067	4.5088	4.5127	5.040	5.002	5.286
2593.0	40620	4.5021	4.5029	4.5068	4.967	4.980	4.953
2687.5	41565	4.5100	4.5048	4.5121	5.039	5.071	5.000

LTE BAND 41 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2501.0	39700	8.9647	8.9659	8.9738	9.751	9.675	9.784
2593.0	40620	8.9783	8.9652	8.9773	9.758	9.759	9.777
2685.0	41540	8.9839	8.9614	8.9734	9.783	9.773	9.814

LTE BAND 41 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2503.5	39725	13.487	13.488	13.422	14.665	14.723	14.670
2593.0	40620	13.477	13.473	13.439	14.596	14.723	14.665
2682.5	41515	13.481	13.469	13.409	14.634	14.675	14.720

LTE BAND 41 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2506.0	39750	17.952	17.897	17.902	19.422	19.523	19.429
2593.0	40620	17.936	17.926	17.907	19.353	19.461	19.541
2680.0	41490	17.886	17.832	17.851	19.331	19.333	19.224

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LTE BAND 66 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1710.7	131979	1.0950	1.0948	1.0948	1.239	1.240	1.238
1745.0	132322	1.0947	1.0985	1.0950	1.240	1.242	1.237
1779.3	132665	1.0944	1.0986	1.0986	1.241	1.244	1.244

LTE BAND 66 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1711.5	131987	2.7045	2.7007	2.7054	3.005	3.004	2.993
1745.0	132322	2.6995	2.7012	2.7019	2.992	3.011	2.988
1778.5	132657	2.6988	2.6974	2.6990	3.009	3.017	3.001

LTE BAND 66 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1712.5	131997	4.4949	4.5027	4.5031	4.992	4.967	4.979
1745.0	132322	4.4974	4.4989	4.5077	4.984	4.957	4.983
1777.5	132647	4.5038	4.5035	4.5140	4.976	5.005	5.004

LTE BAND 66 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1715.0	132022	9.0115	8.9639	8.9837	9.816	9.752	9.831
1745.0	132322	8.9997	8.9551	8.9904	9.839	9.787	9.833
1775.0	132622	9.0003	8.9612	8.9873	9.828	9.765	9.788

LTE BAND 66 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1717.5	132047	13.5030	13.4950	13.4610	14.727	14.788	14.671
1745.0	132322	13.4850	13.4920	13.4520	14.669	14.708	14.707
1772.5	132597	13.4510	13.4550	13.4280	14.662	14.752	14.685

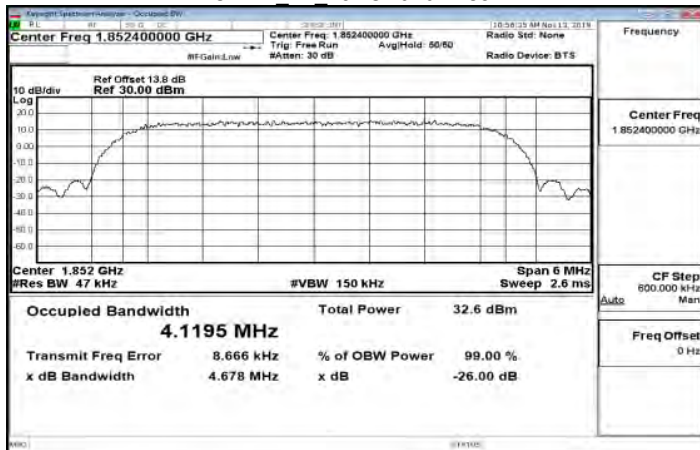
LTE BAND 66 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1720.0	132072	17.9580	17.9970	17.9580	19.482	19.435	19.666
1745.0	132322	17.9170	17.9880	17.9520	19.462	19.453	19.584
1770.0	132572	17.8870	17.9310	17.9240	19.394	19.469	19.352

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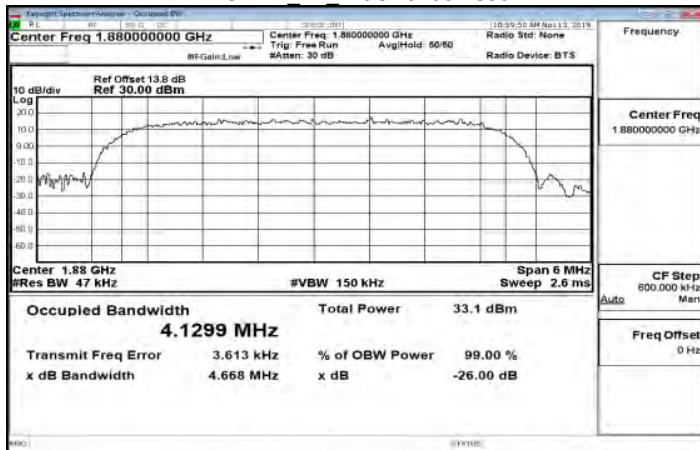
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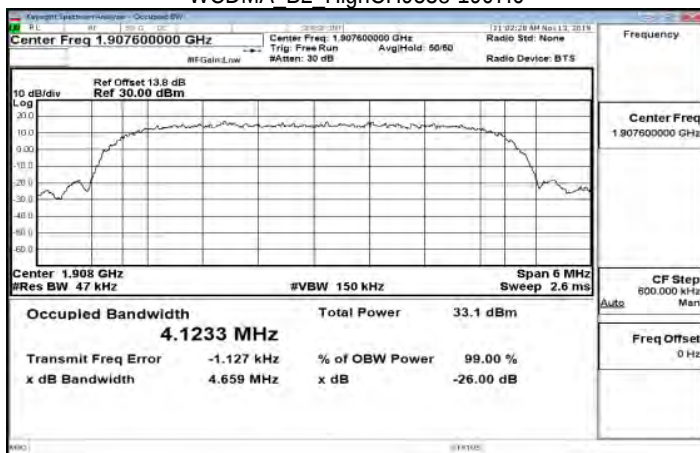
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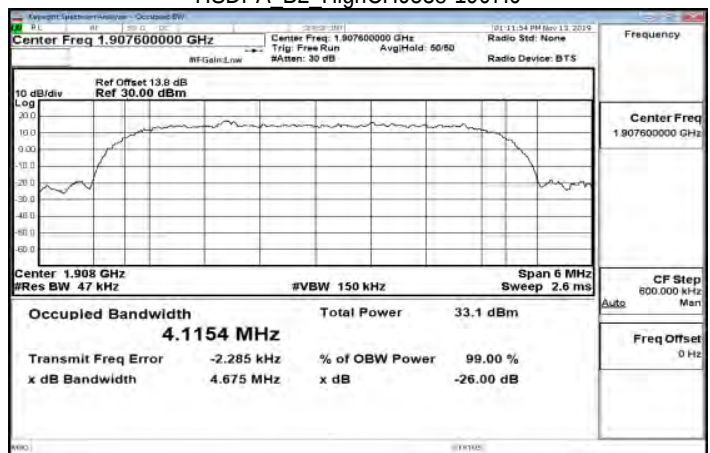
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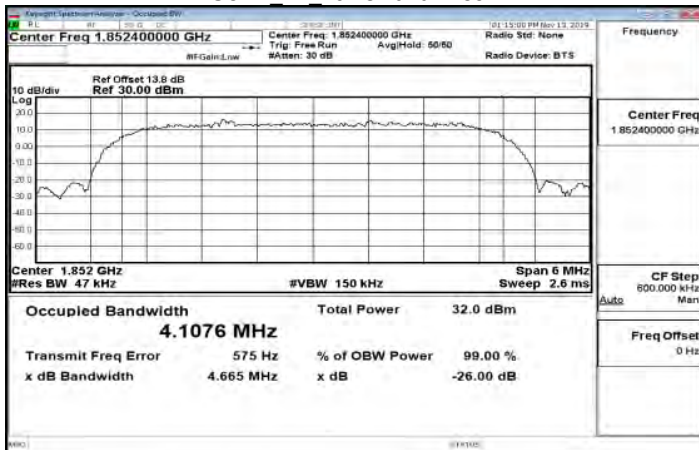


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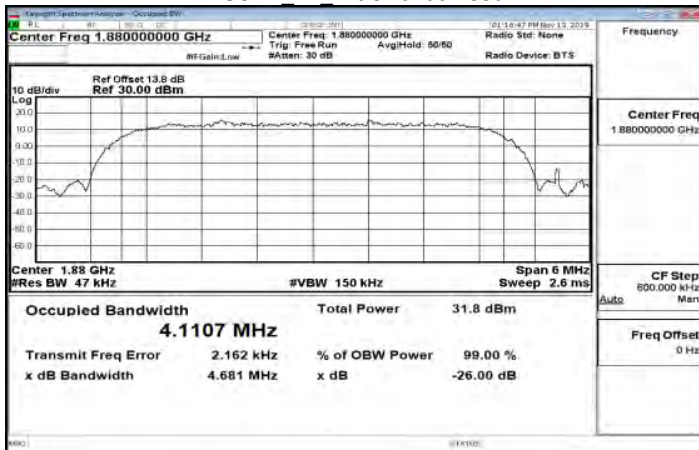
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WCDMA B5 LowCH4132-826.4



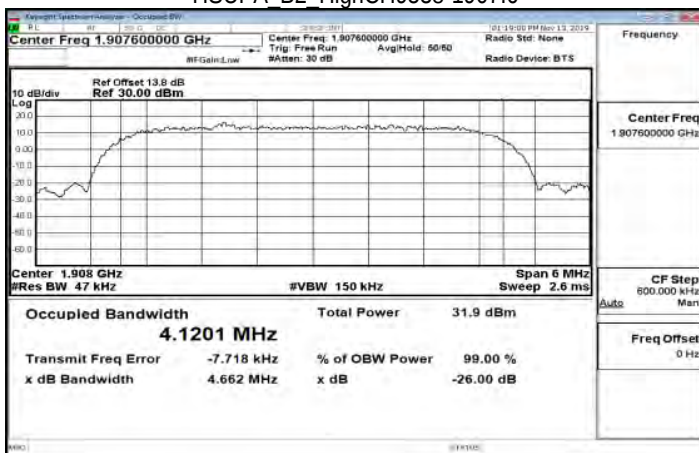
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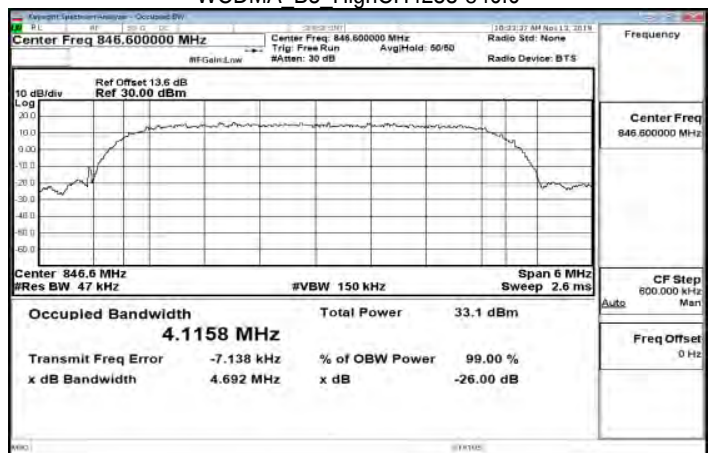
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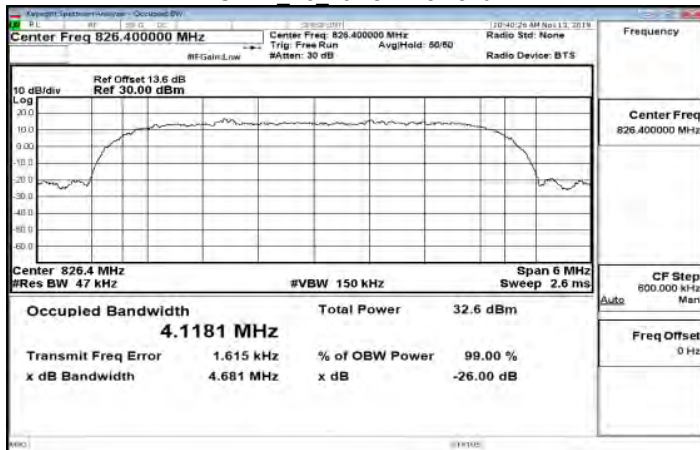


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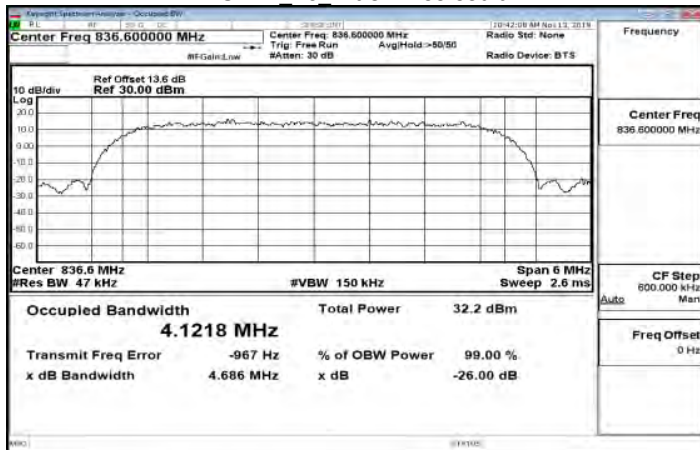
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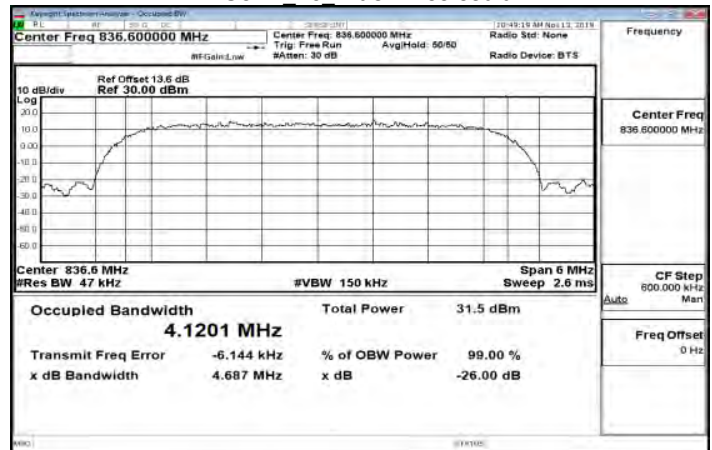
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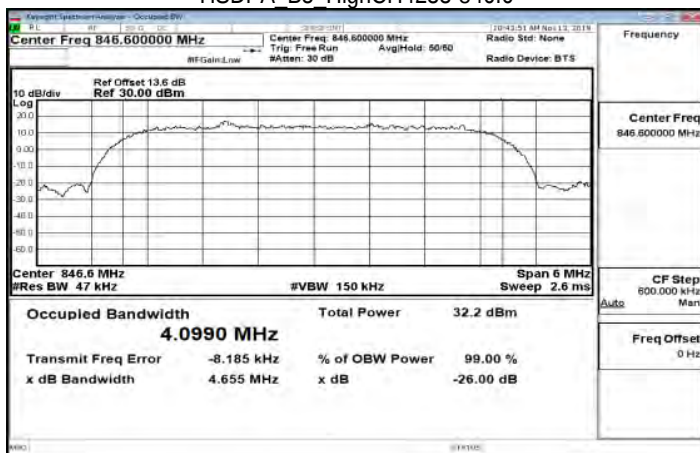
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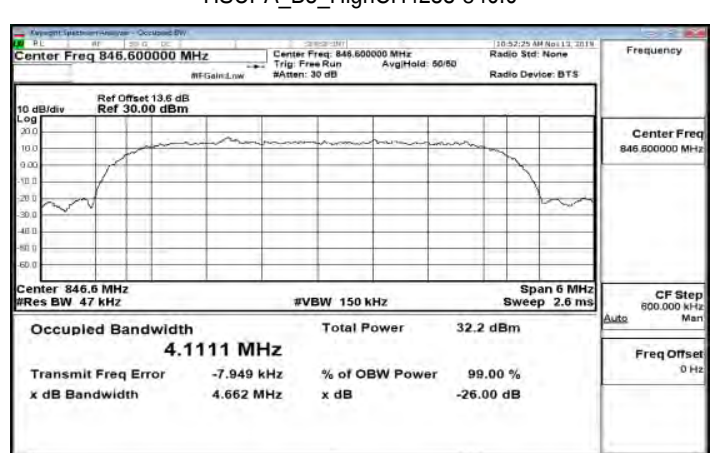
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HSDPA B5 HighCH4233-846.6



HSUPA B5 HighCH4233-846.6

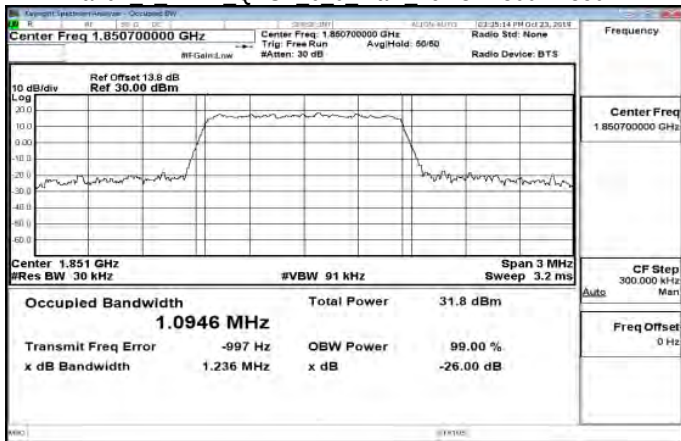


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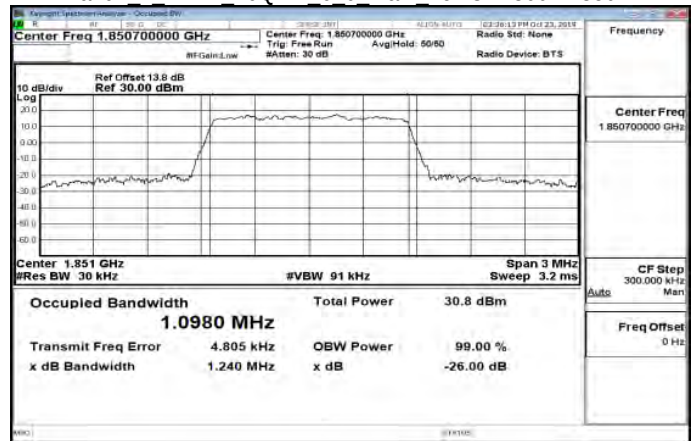
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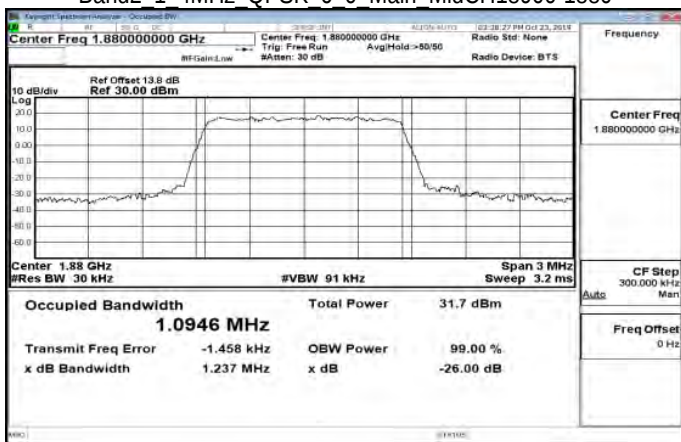
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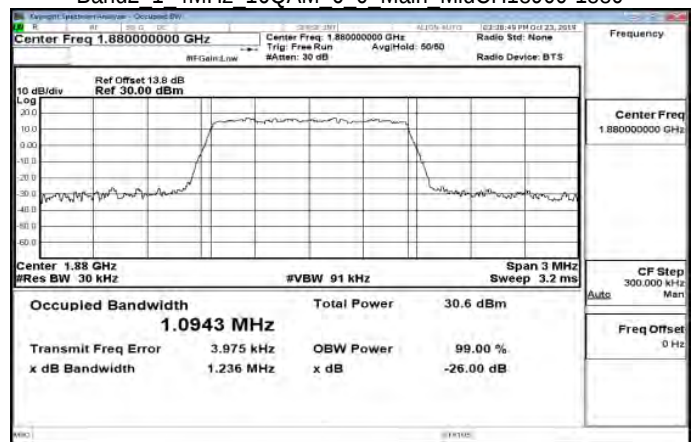
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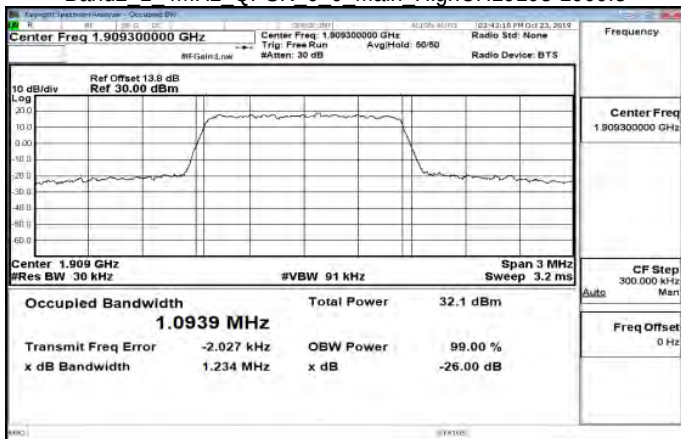
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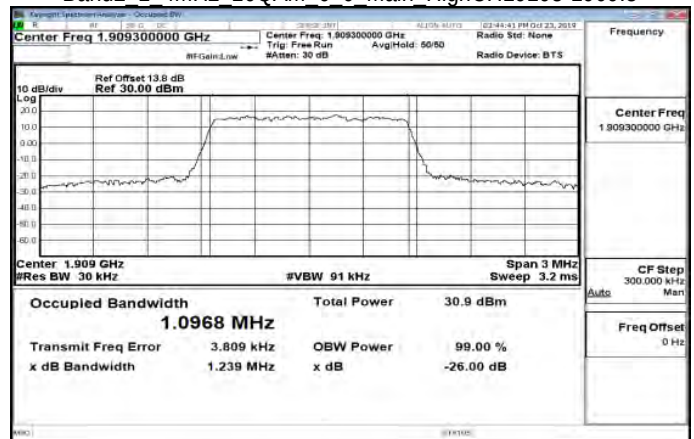
Band2 1 4MHz 16QAM 6 0 Main MidCH18900-1880



Band2 1 4MHz QPSK 6 0 Main HighCH19193-1909.3



Band2 1 4MHz 16QAM 6 0 Main HighCH19193-1909.3



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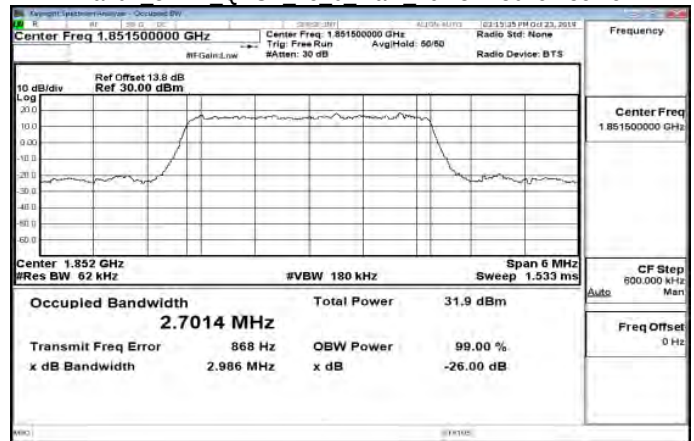
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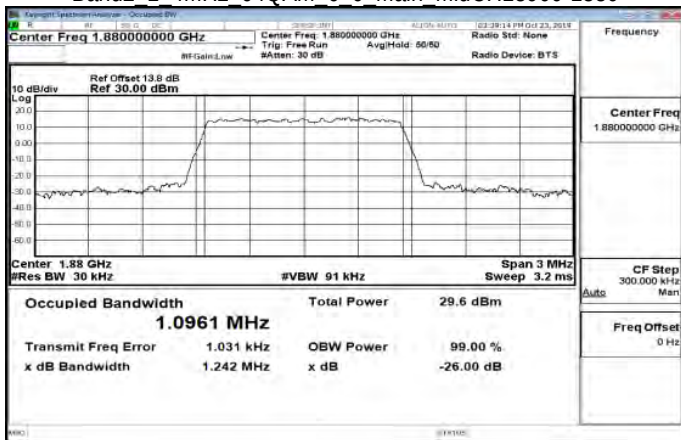
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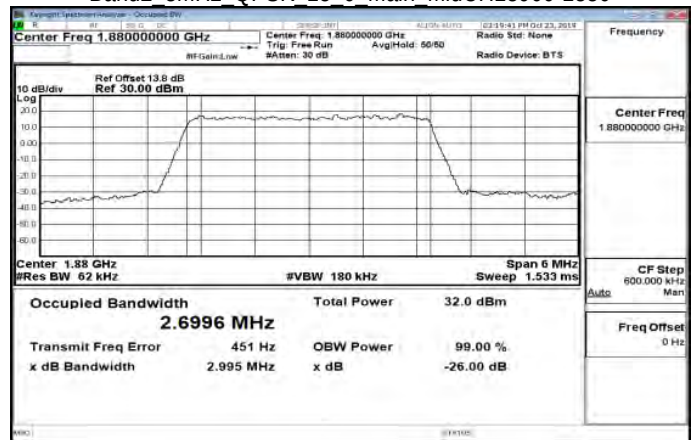
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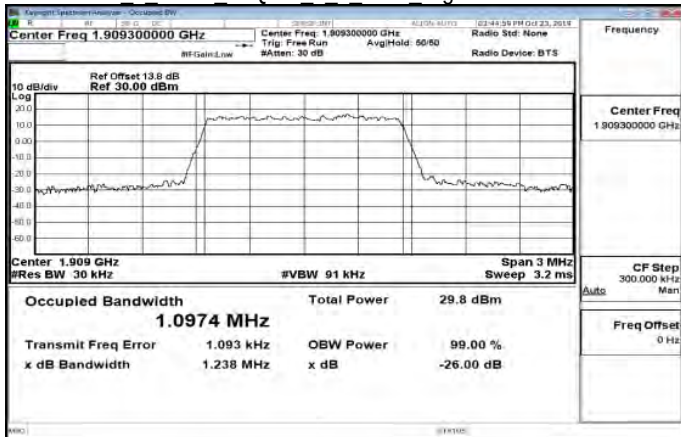
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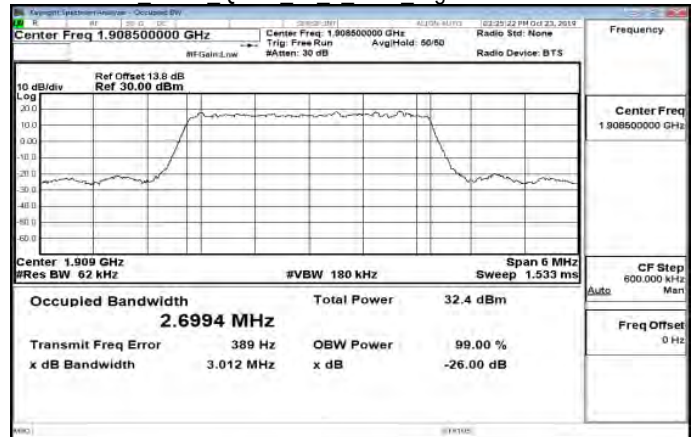
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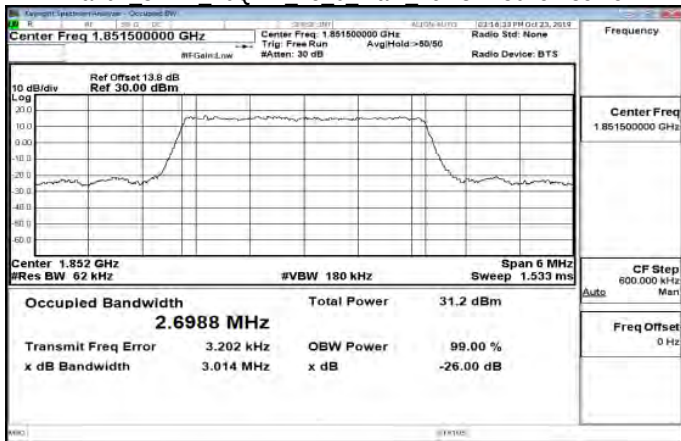


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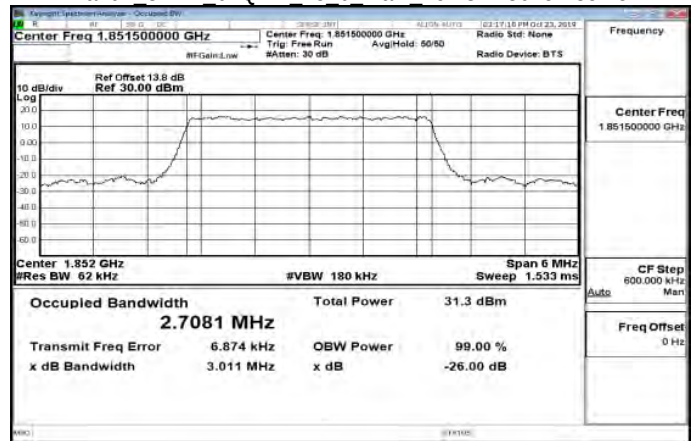
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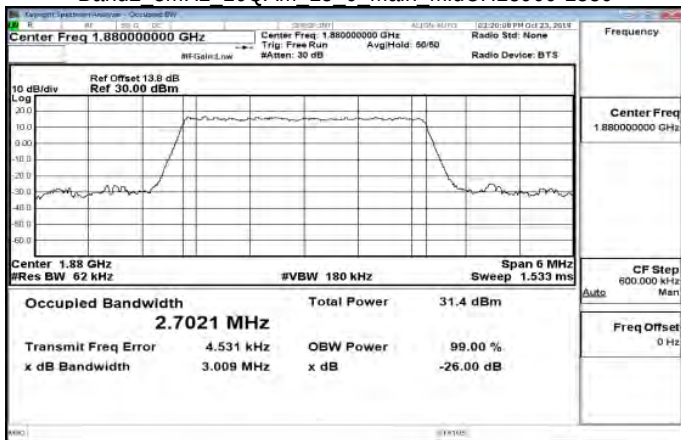
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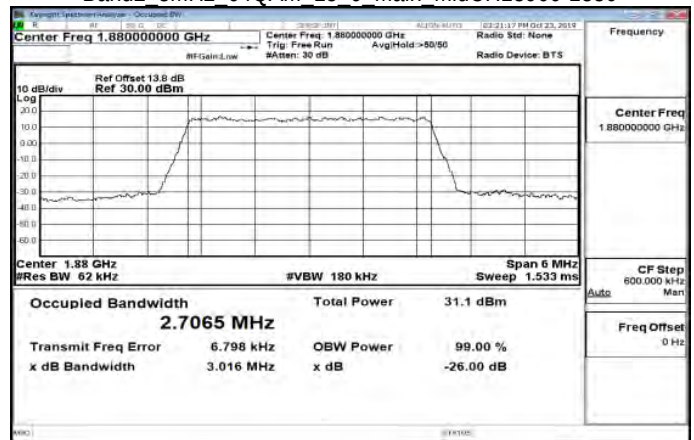
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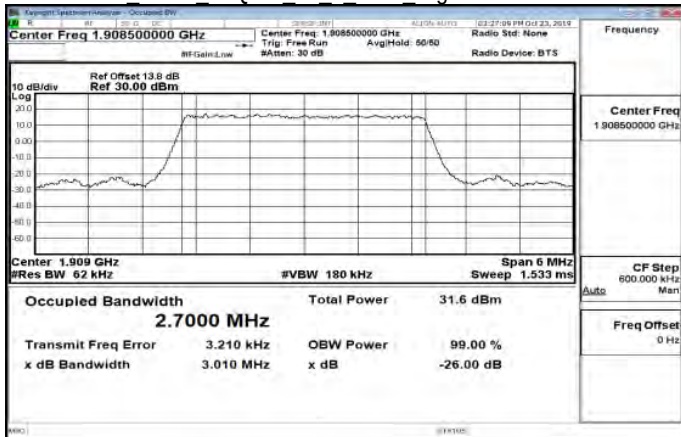
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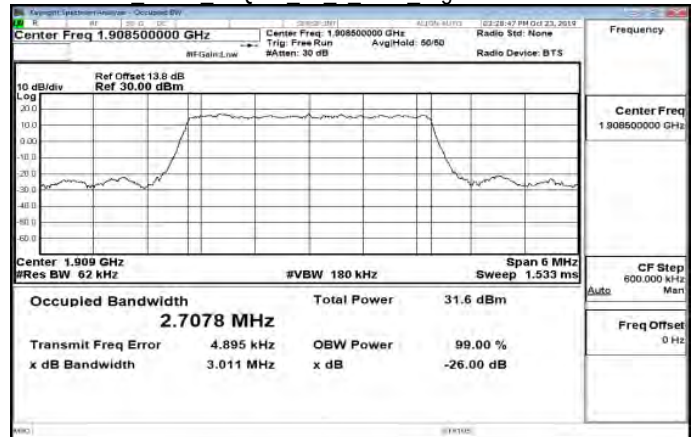
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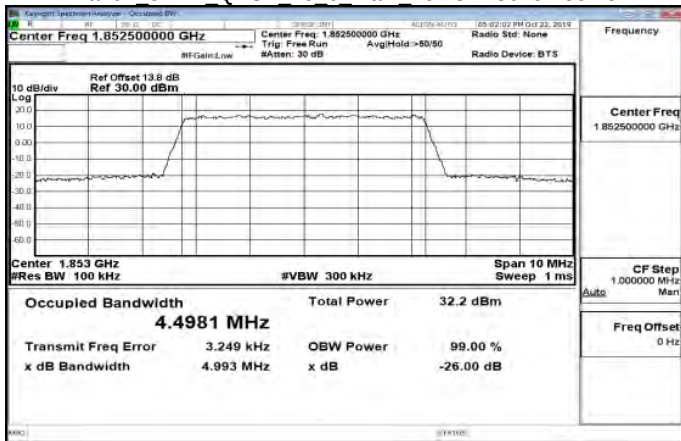


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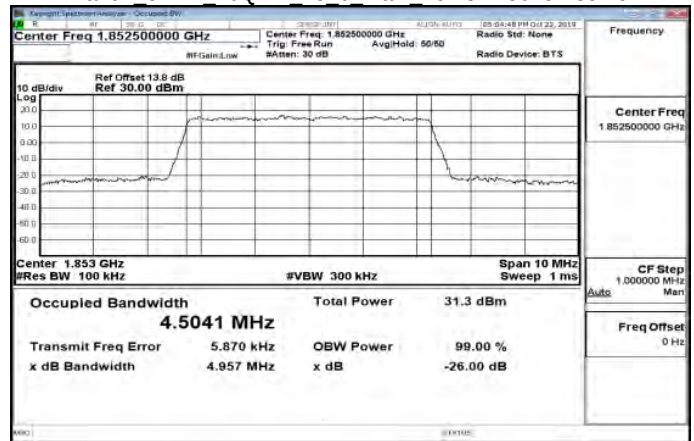
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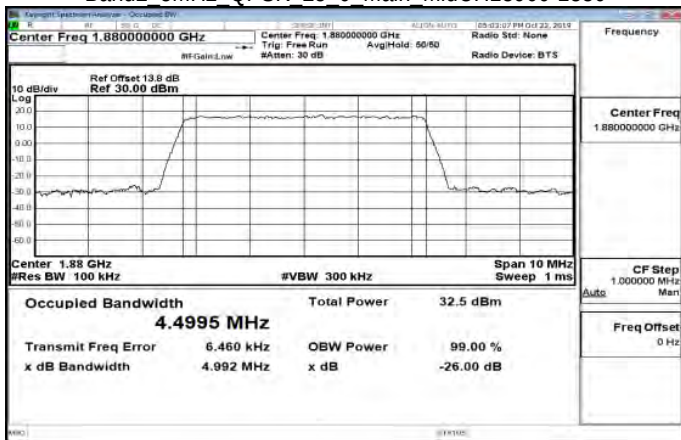
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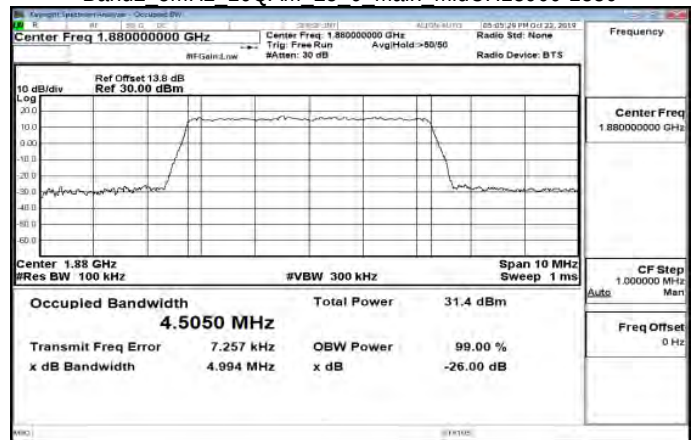
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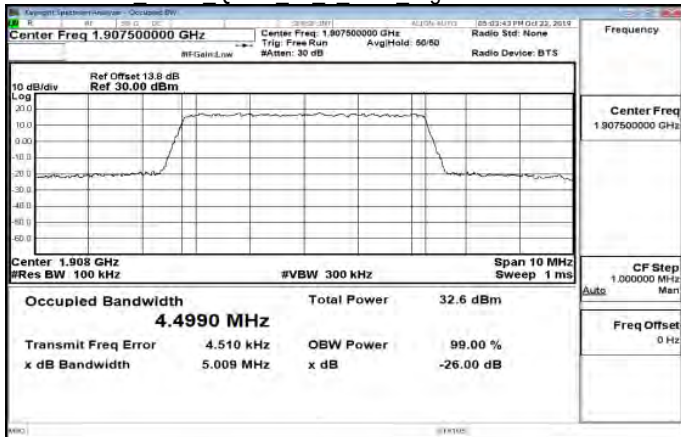
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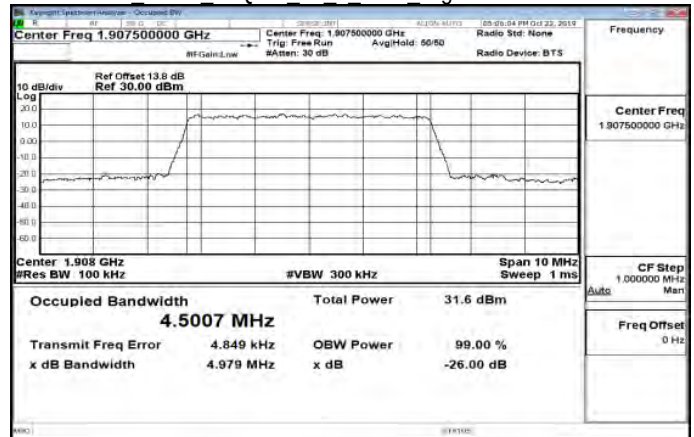
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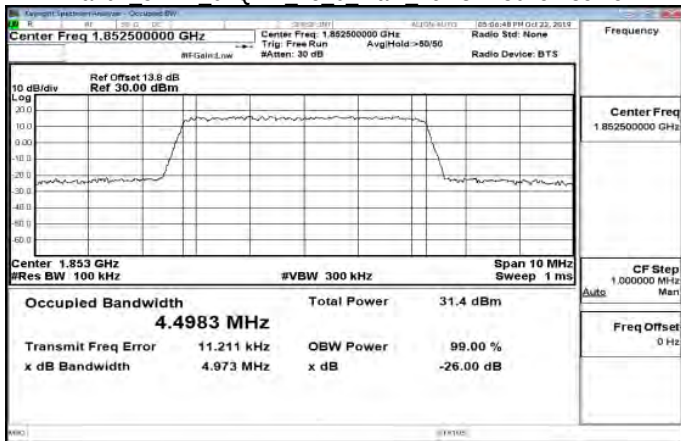


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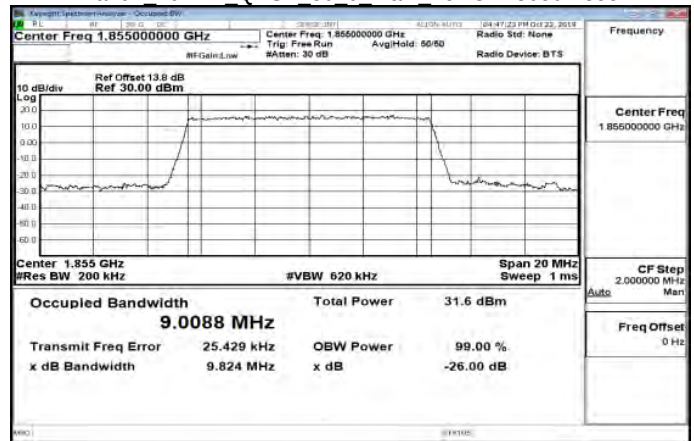
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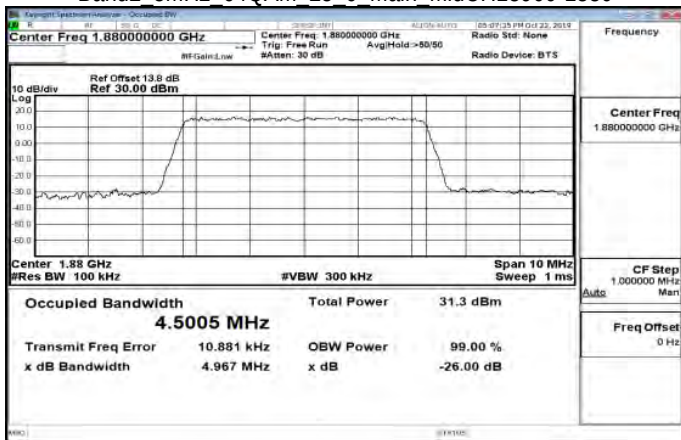
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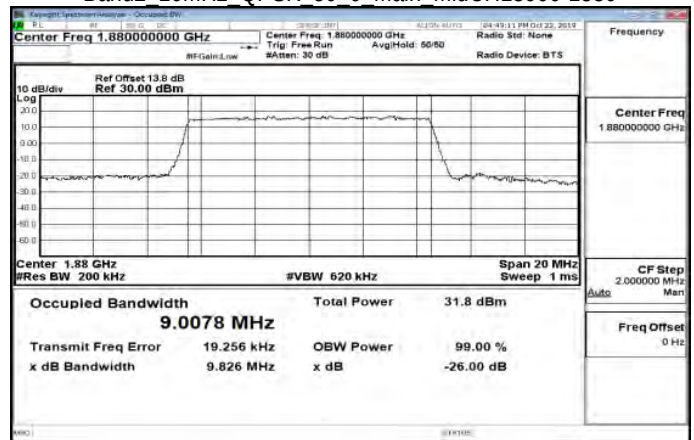
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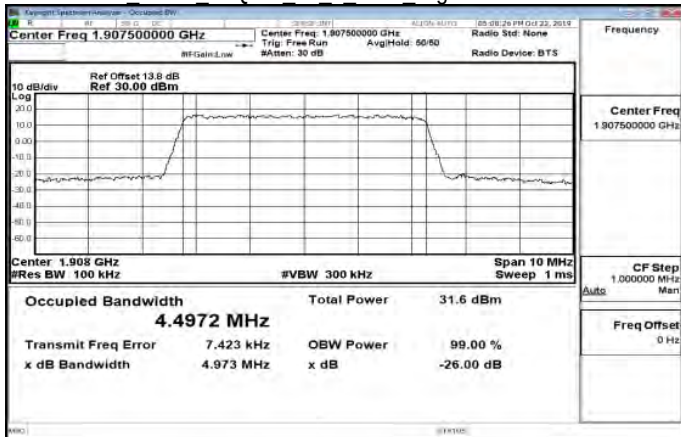
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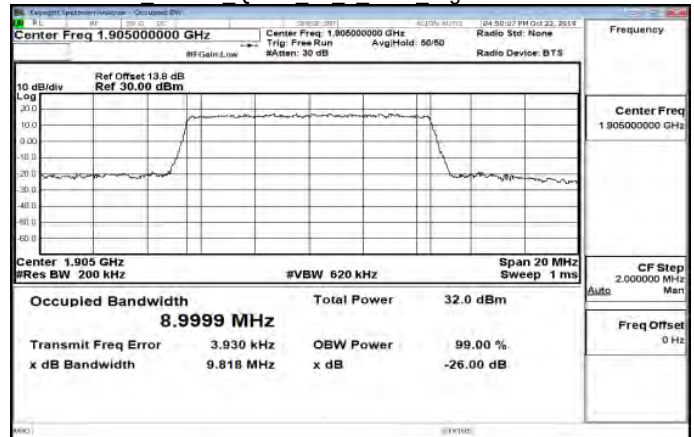
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Band2 10MHz QPSK 50 0 Main HighCH19150-1905

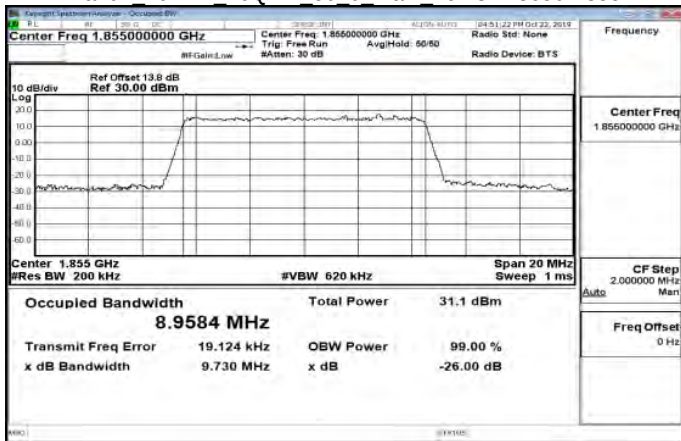


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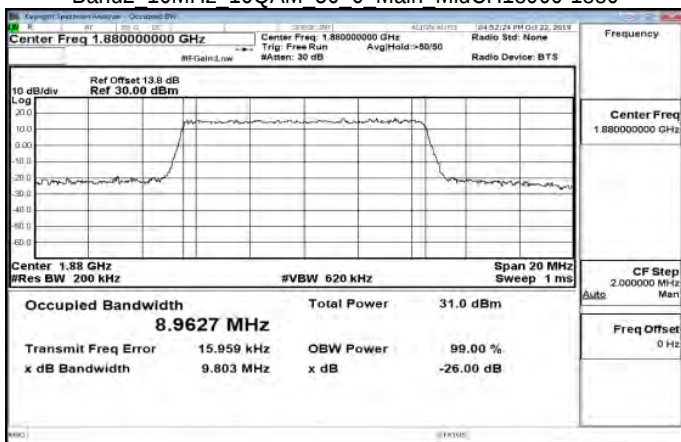
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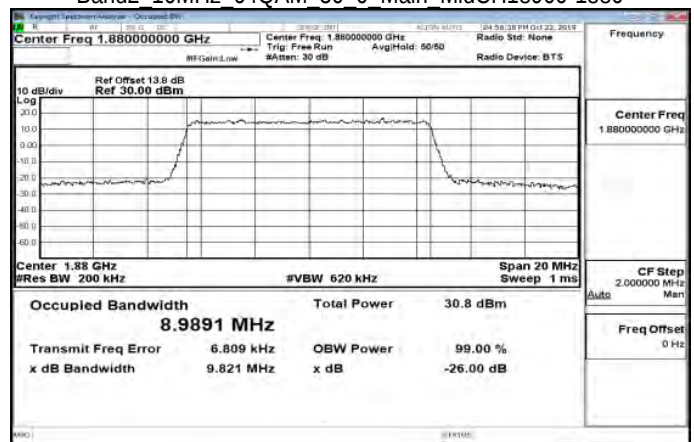
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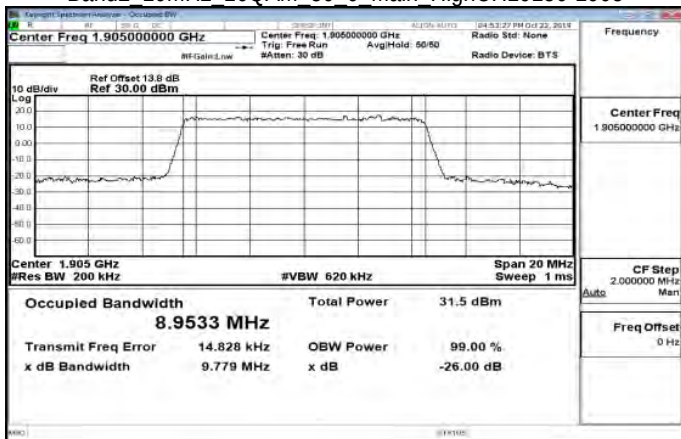
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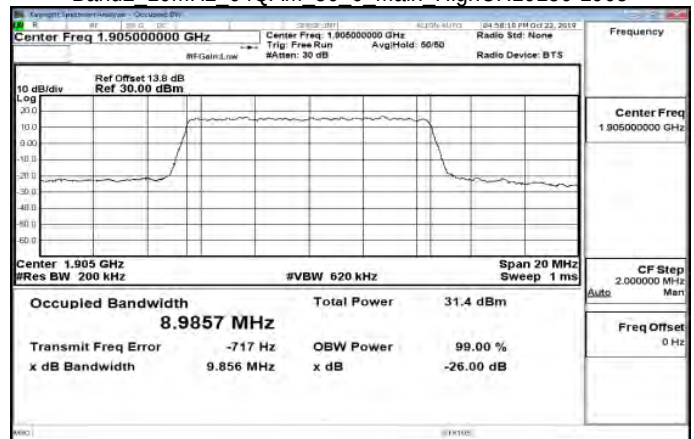
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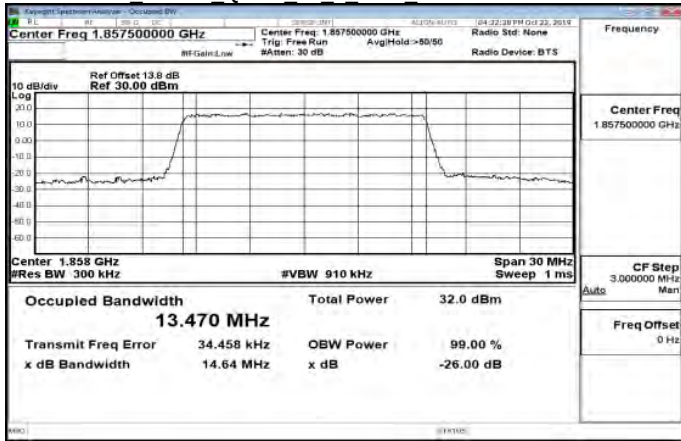


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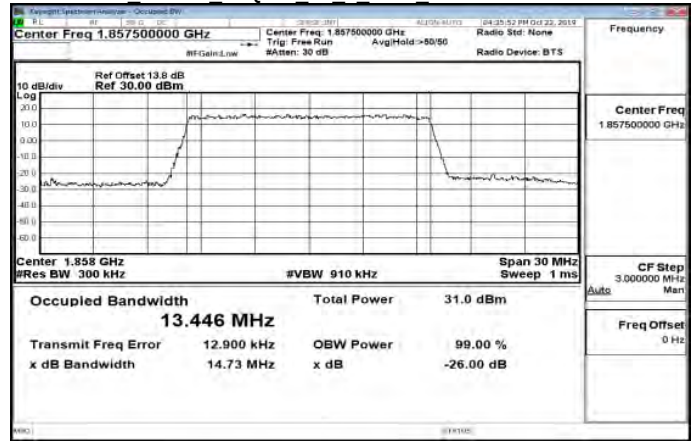
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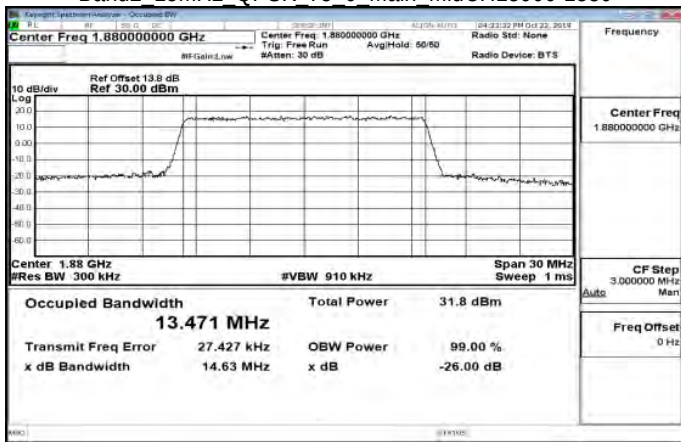
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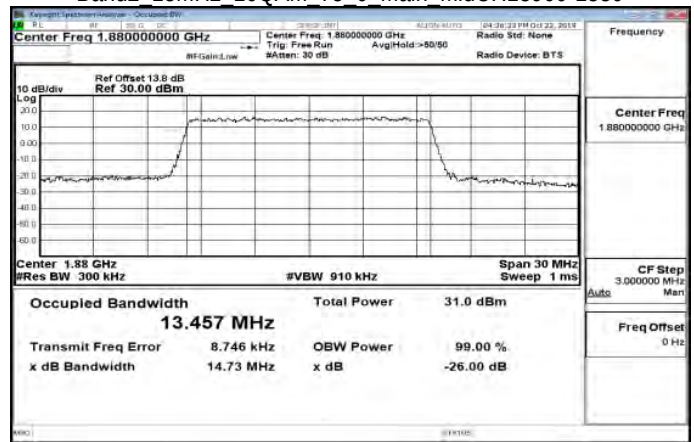
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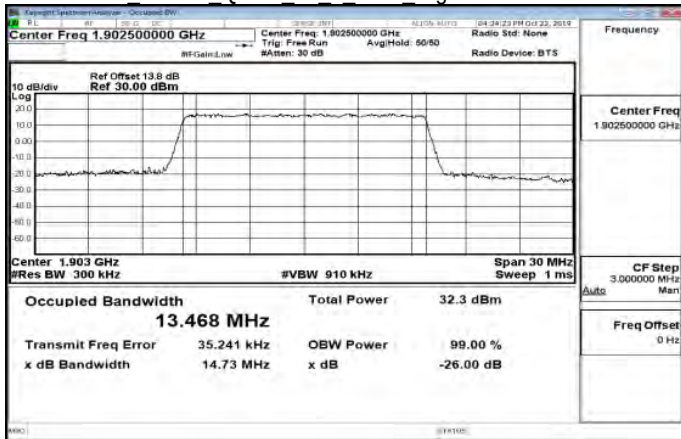
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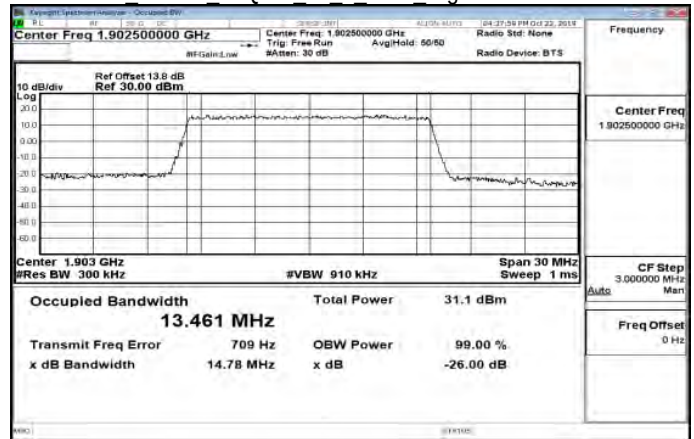
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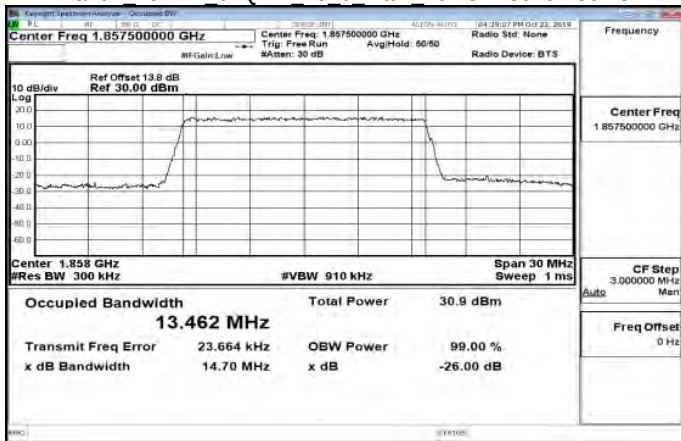


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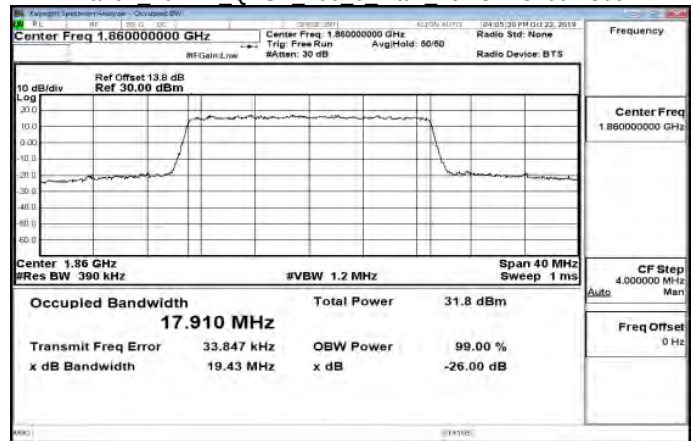
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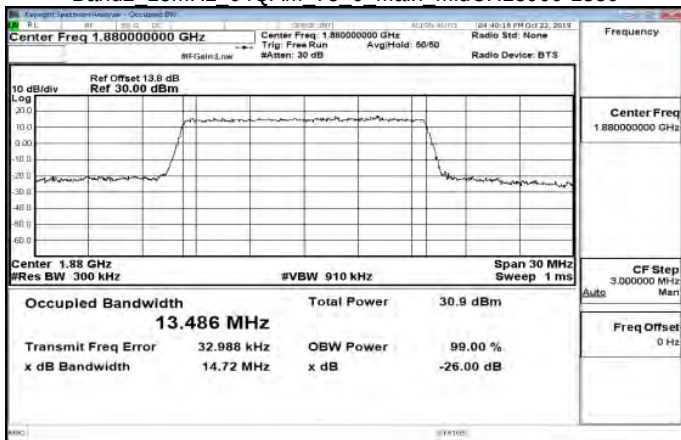
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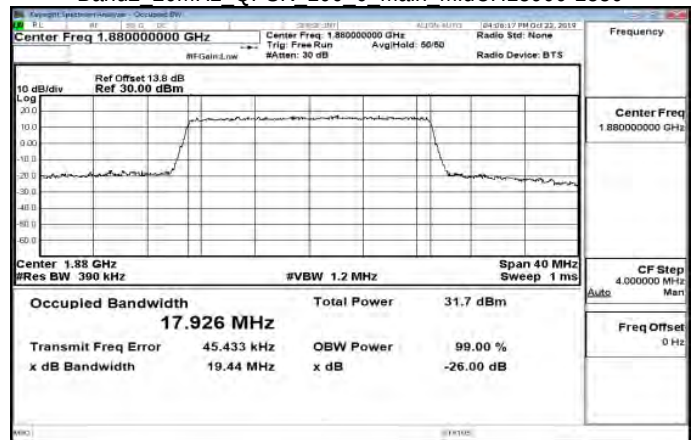
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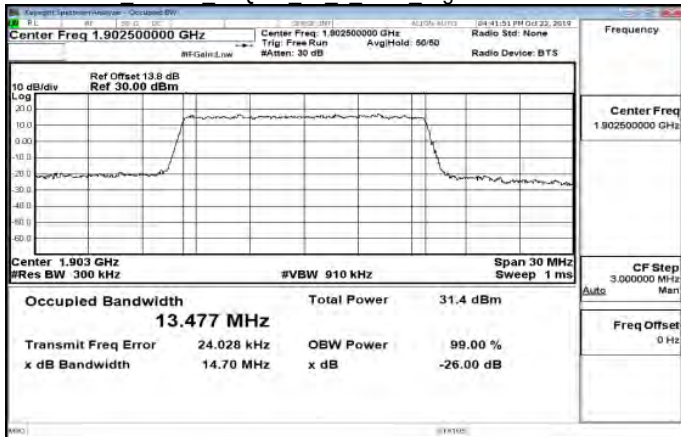
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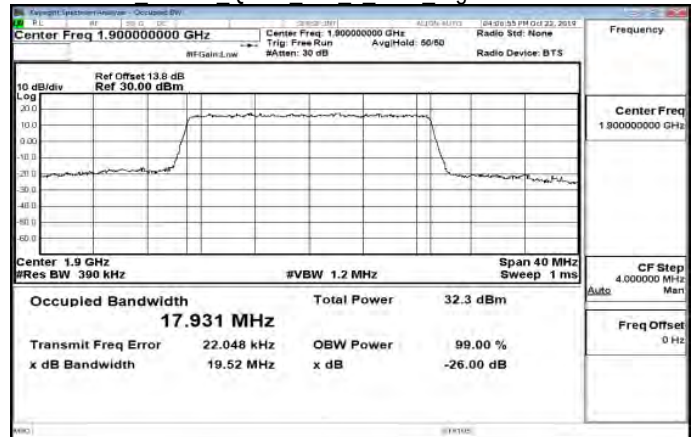
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Band2 15MHz 64QAM 75 0 Main HighCH19125-1902.5



Band2 20MHz QPSK 100 0 Main HighCH19100-1900

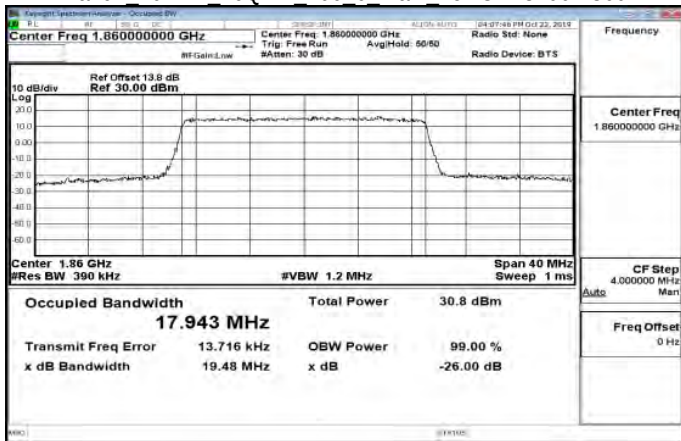


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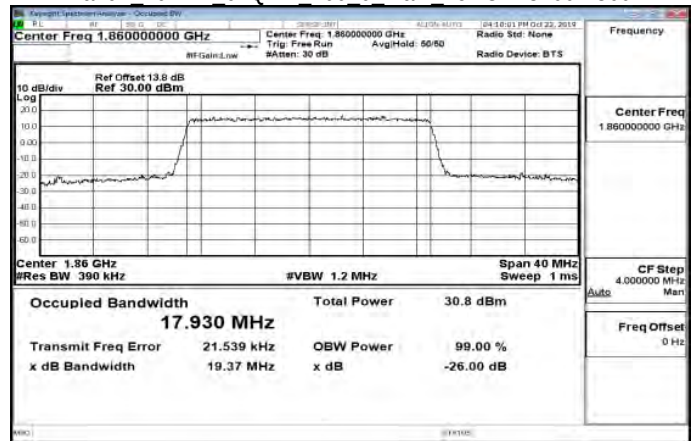
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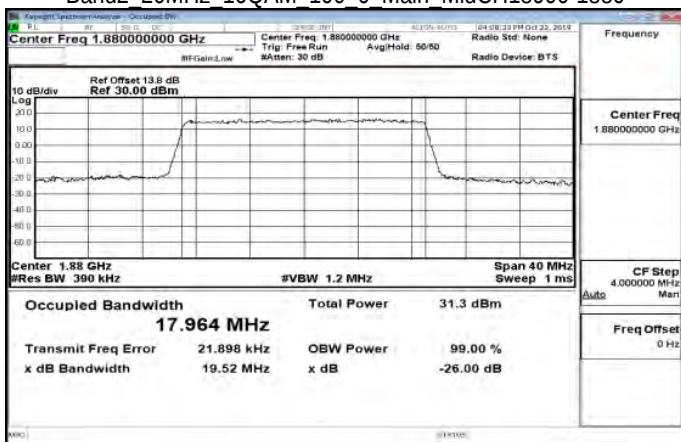
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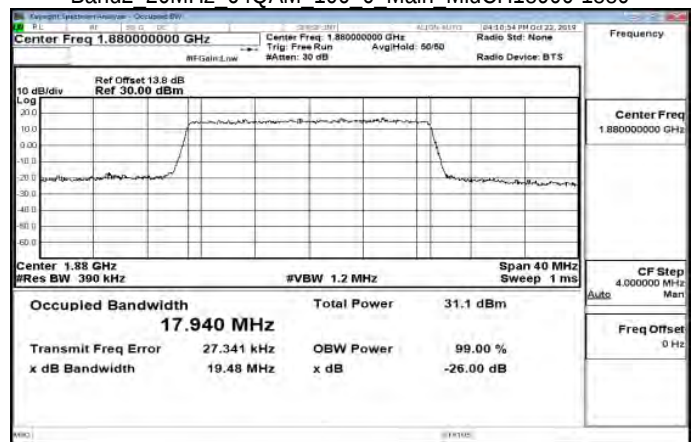
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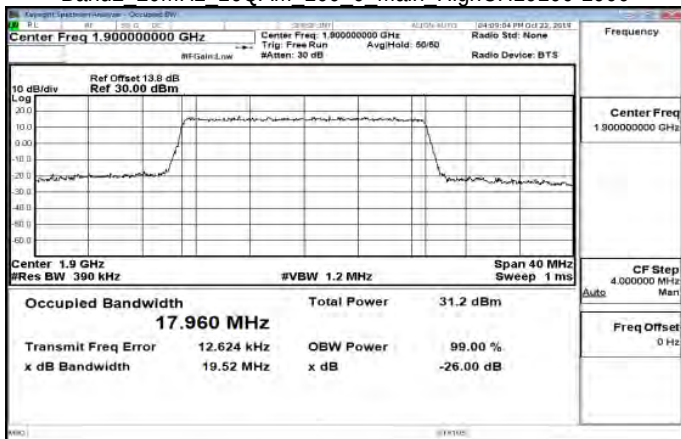
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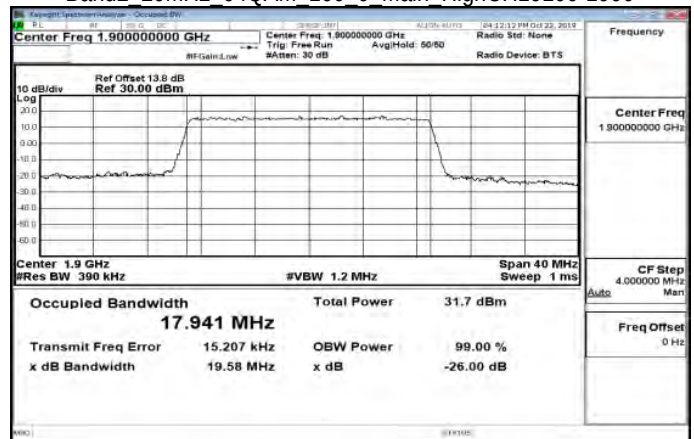
Band2 20MHz 64QAM 100 0 Main MidCH18900-1880



Band2 20MHz 16QAM 100 0 Main HighCH19100-1900



Band2 20MHz 64QAM 100 0 Main HighCH19100-1900



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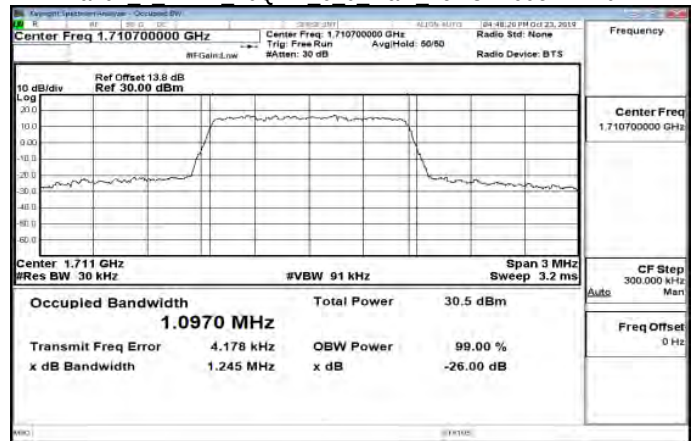
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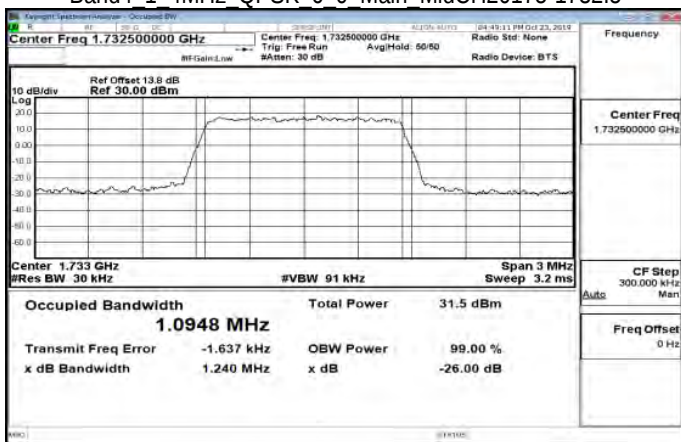
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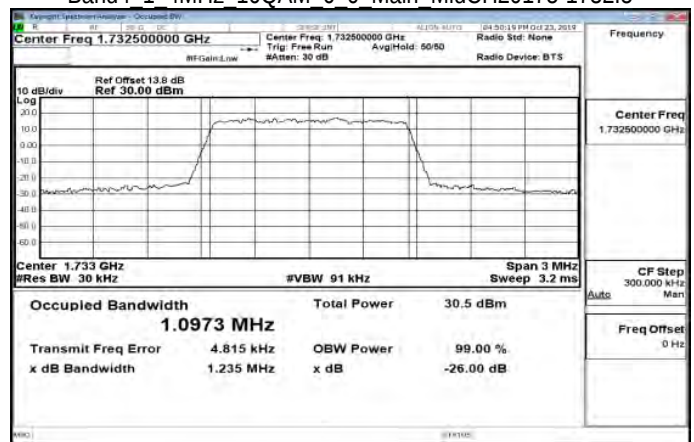
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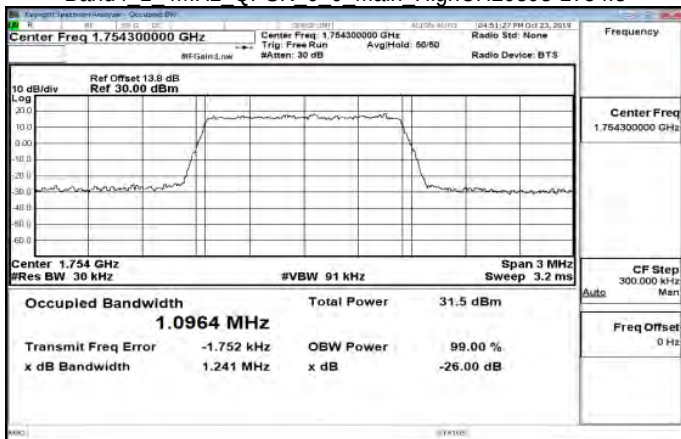
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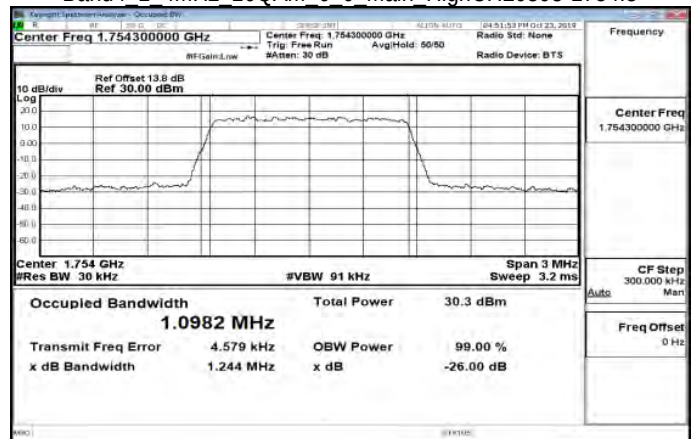
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Band4 1 4MHz QPSK 6 0 Main HighCH20393-1754.3



Band4 1 4MHz 16QAM 6 0 Main HighCH20393-1754.3

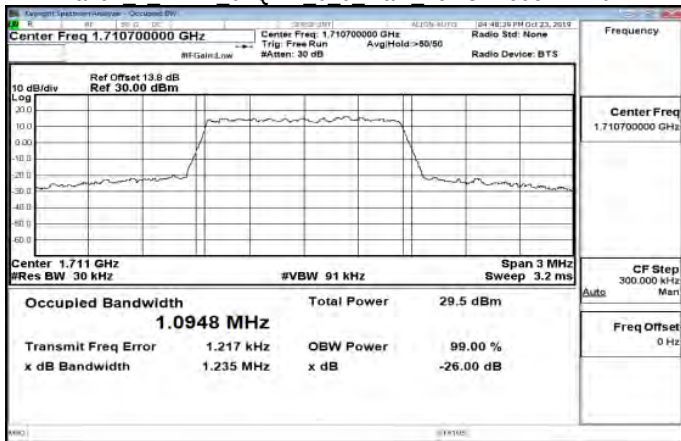


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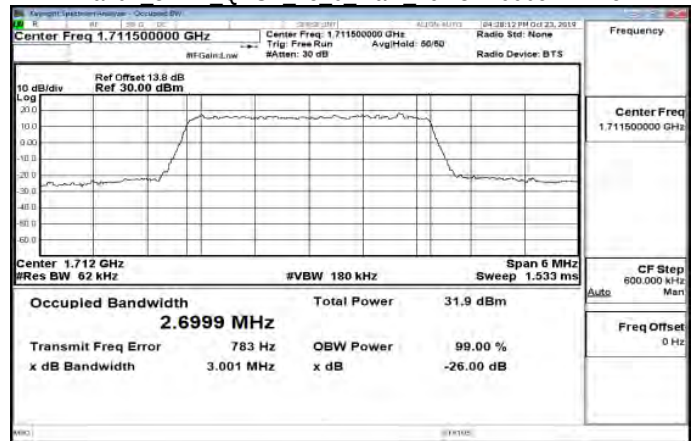
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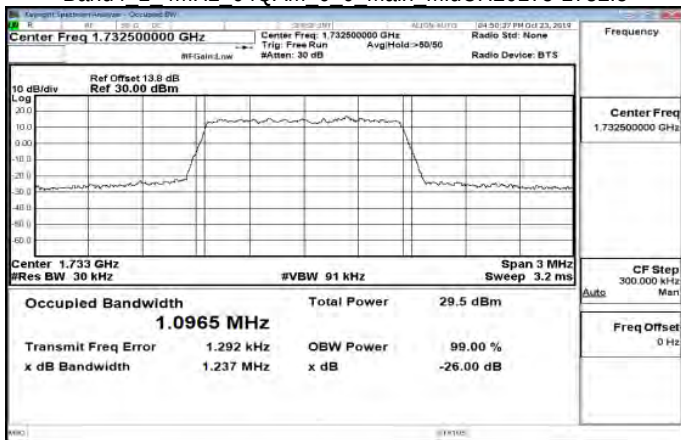
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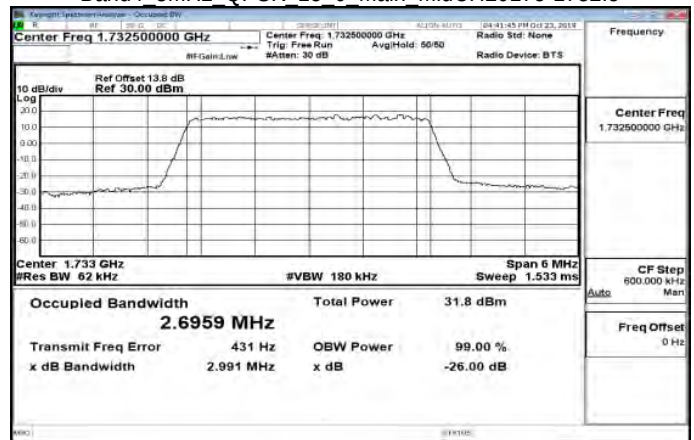
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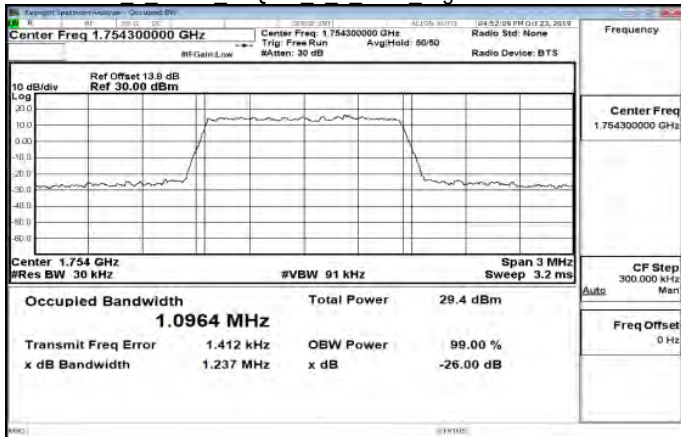
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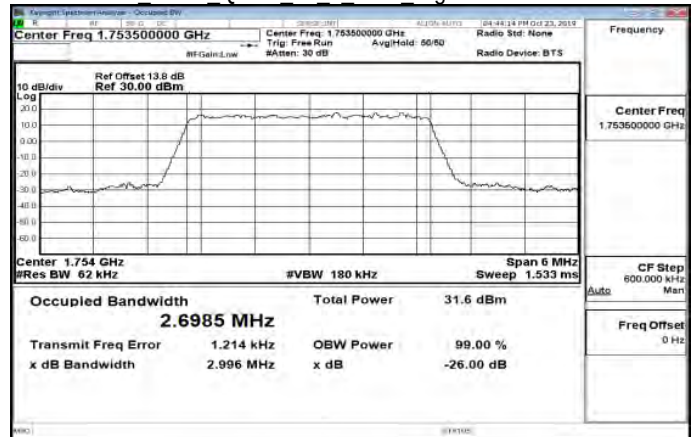
Band4 3MHz QPSK 15 0 Main MidCH20175-1732.5



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Band4 3MHz QPSK 15 0 Main HighCH20385-1753.5

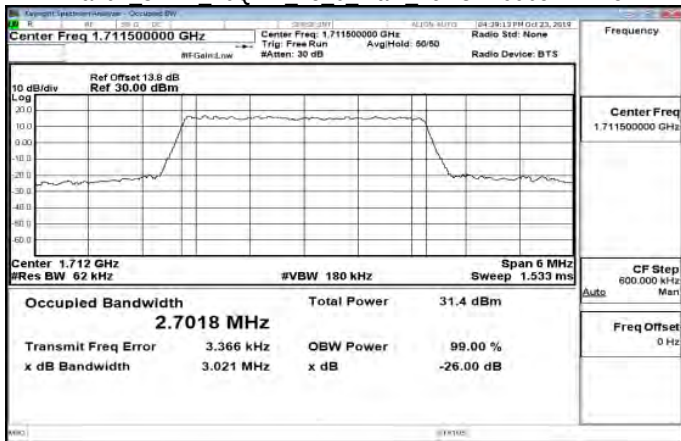


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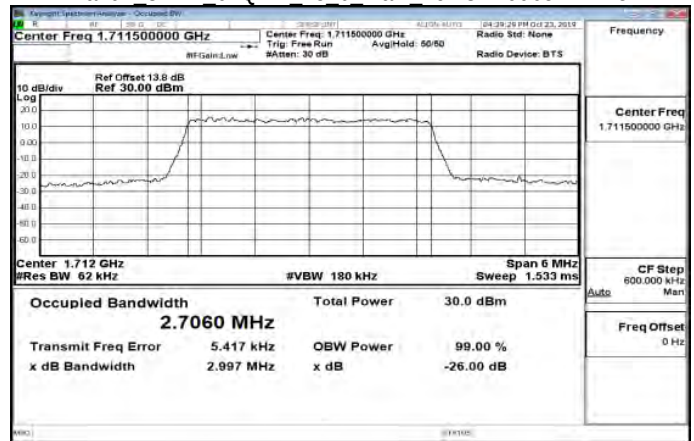
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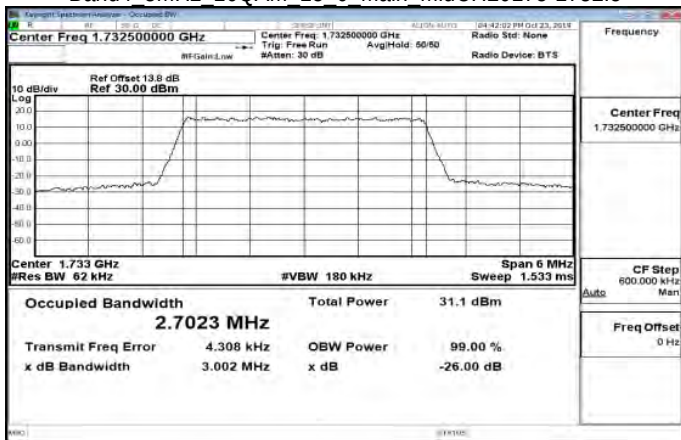
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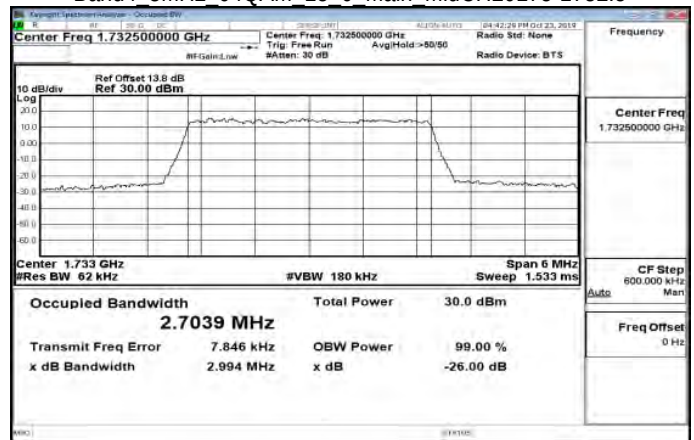
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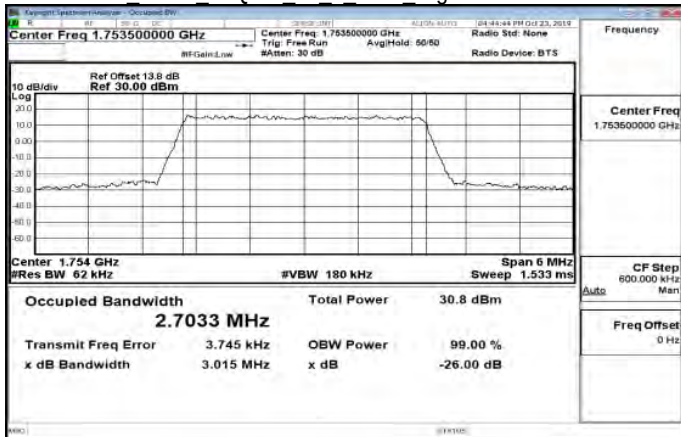
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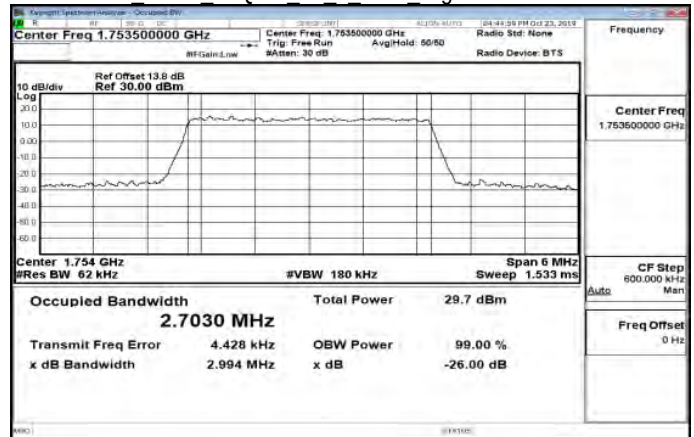
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Band4 3MHz 16QAM 15 0 Main HighCH20385-1753.5



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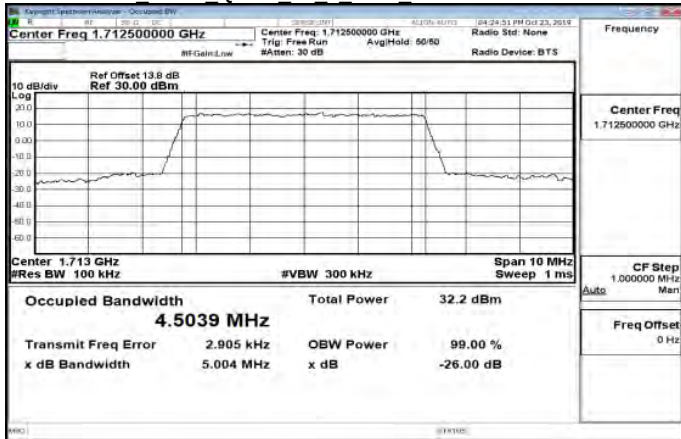


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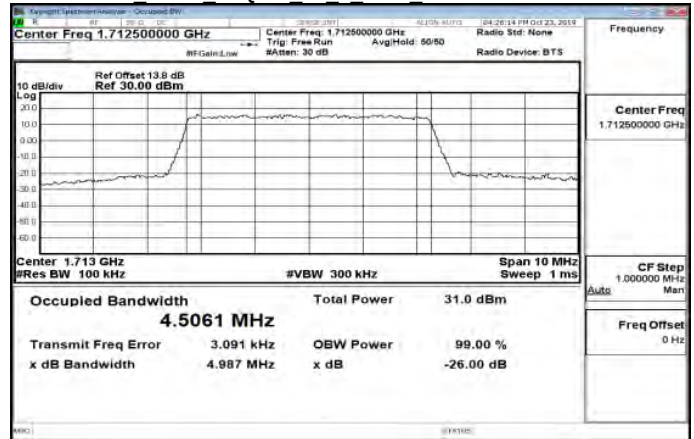
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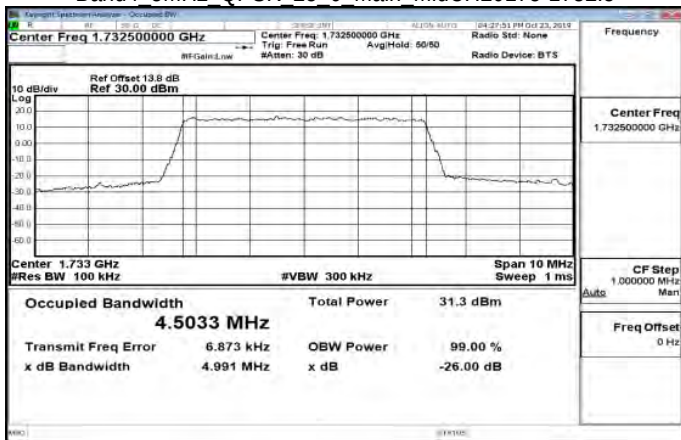
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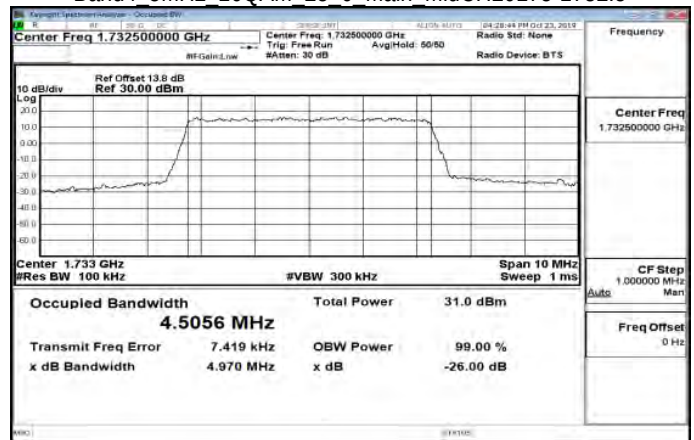
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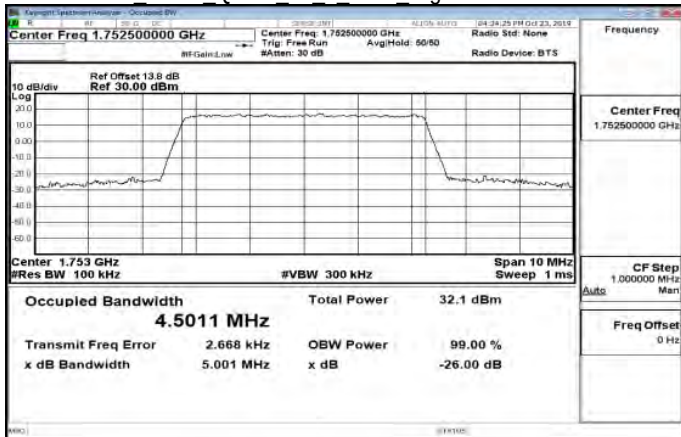
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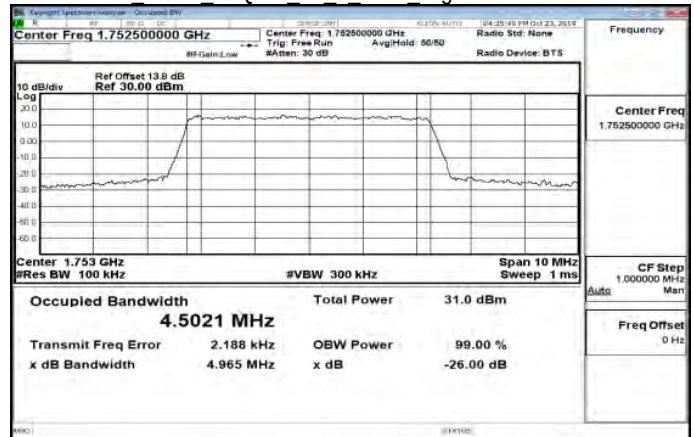
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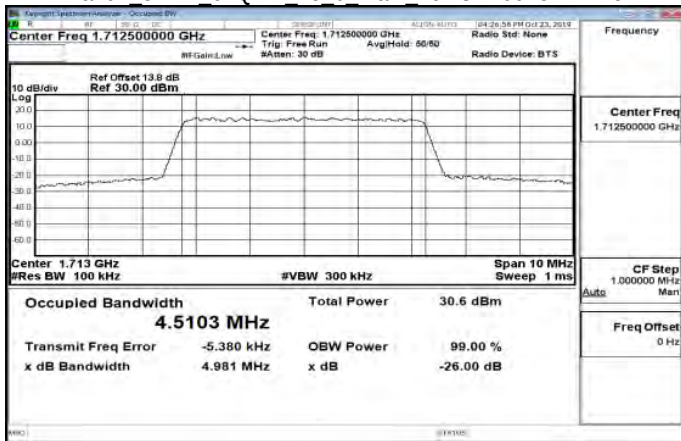


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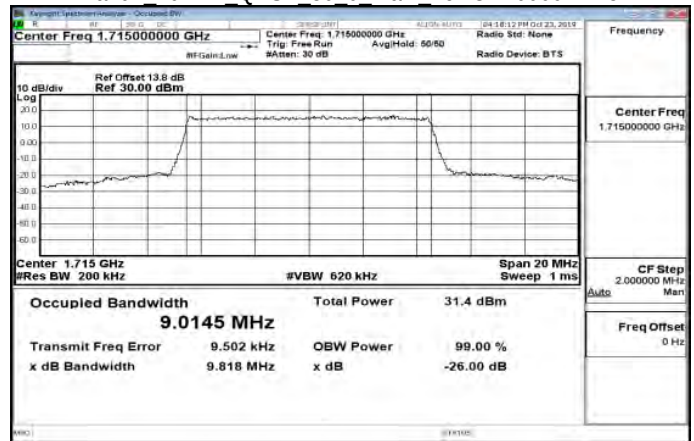
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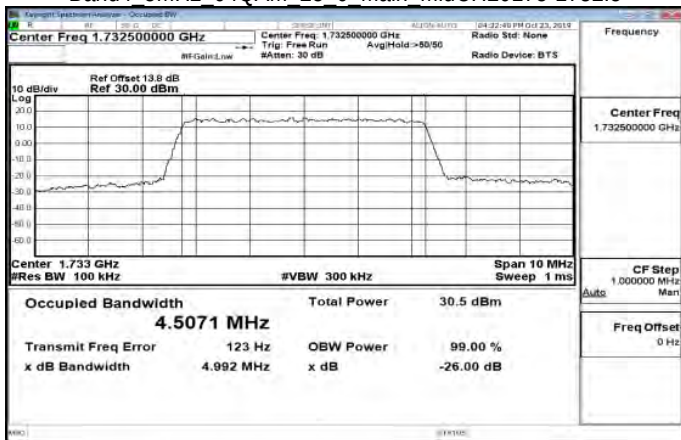
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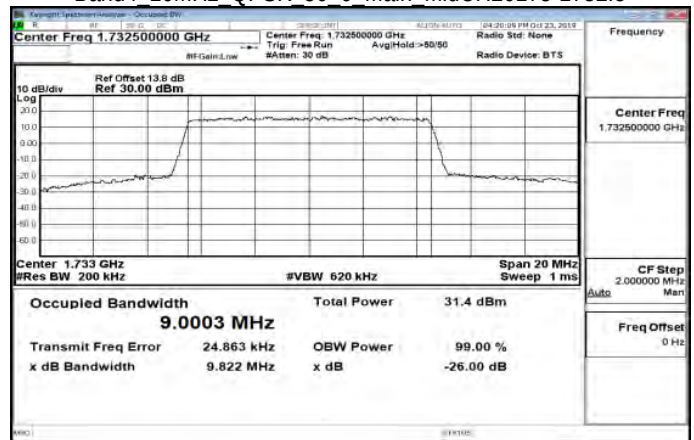
Band4 10MHz QPSK 50 0 Main LowCH20000-1715



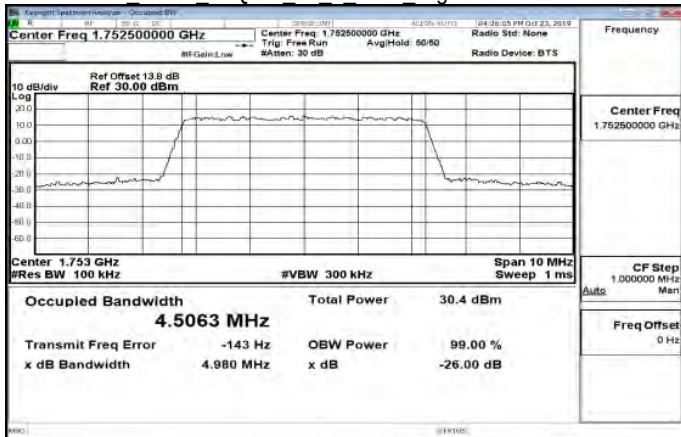
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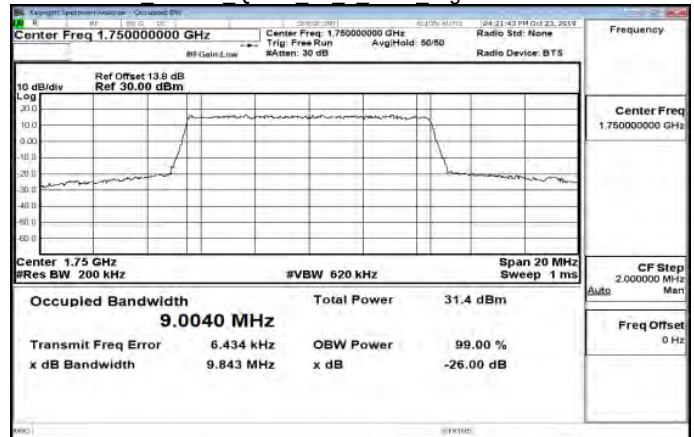
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Band4 5MHz 64QAM 25 0 Main HighCH20375-1752.5



Band4 10MHz QPSK 50 0 Main HighCH20350-1750

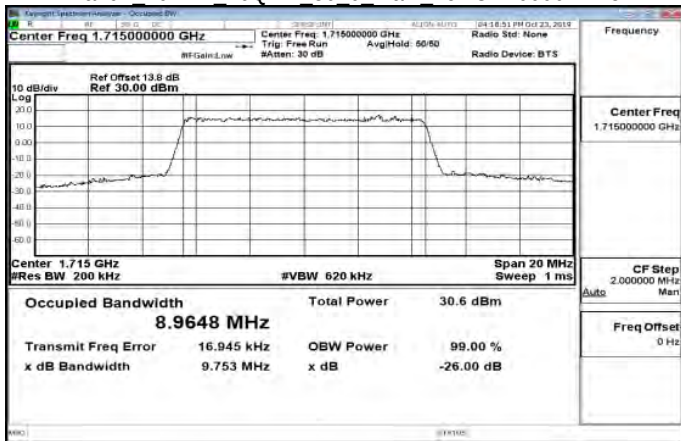


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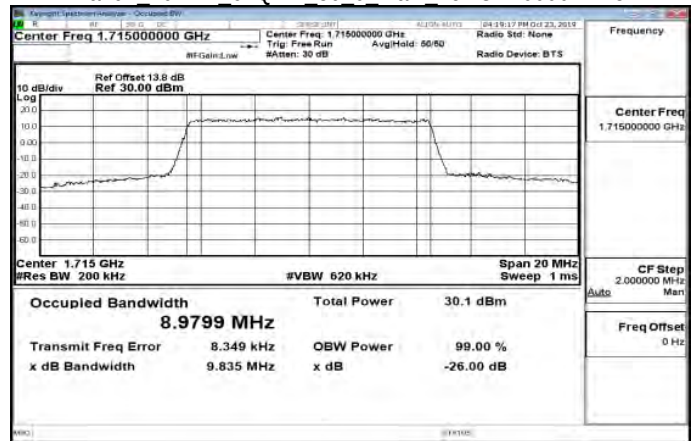
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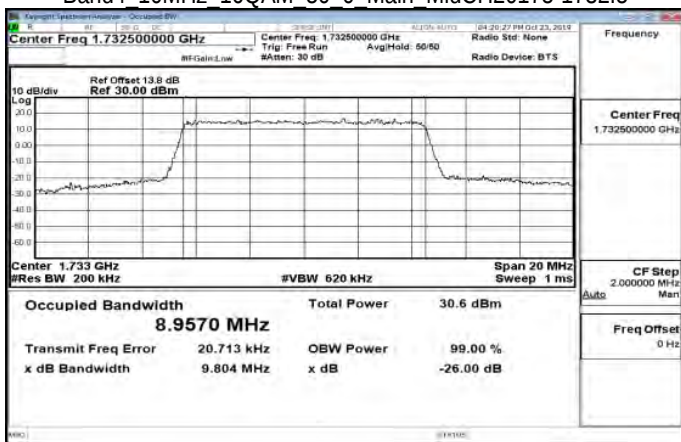
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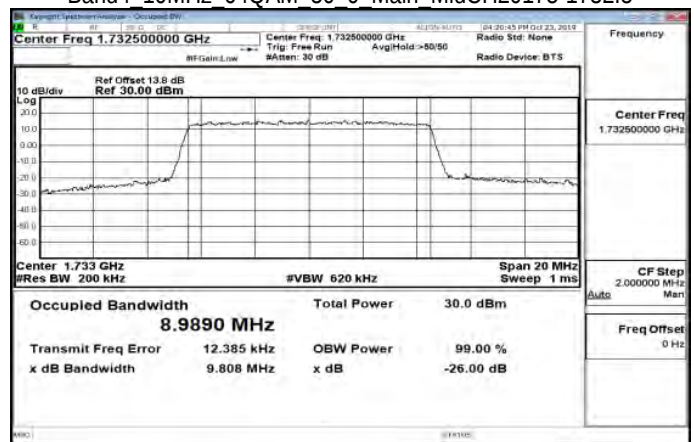
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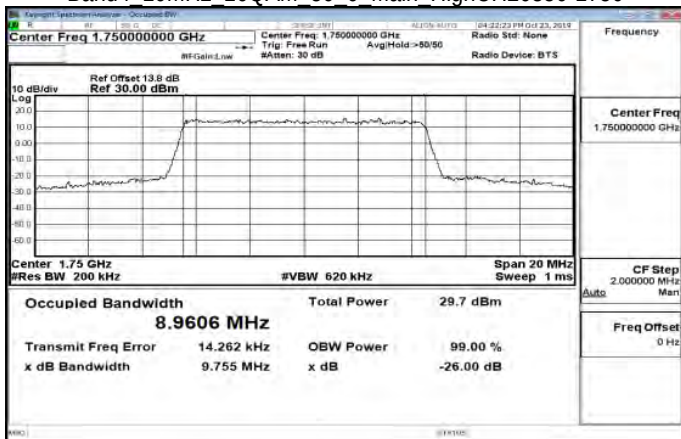
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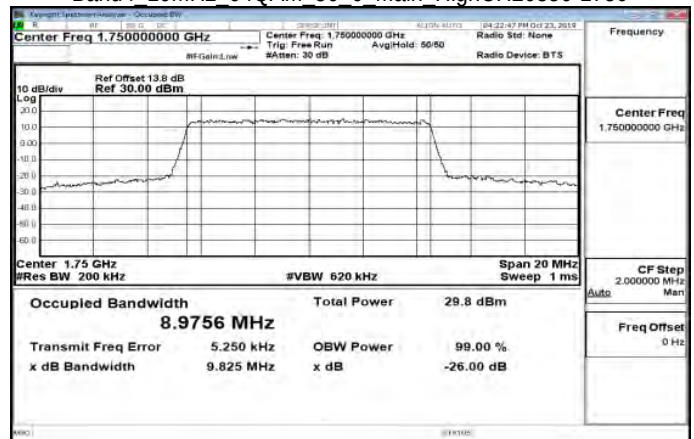
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Band4 10MHz 16QAM 50 0 Main HighCH20350-1750



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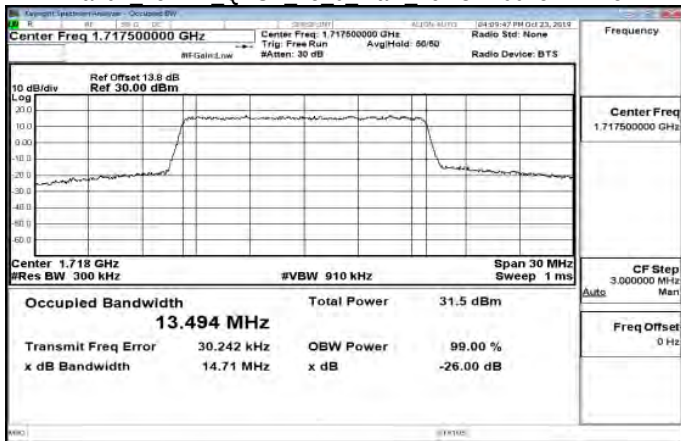


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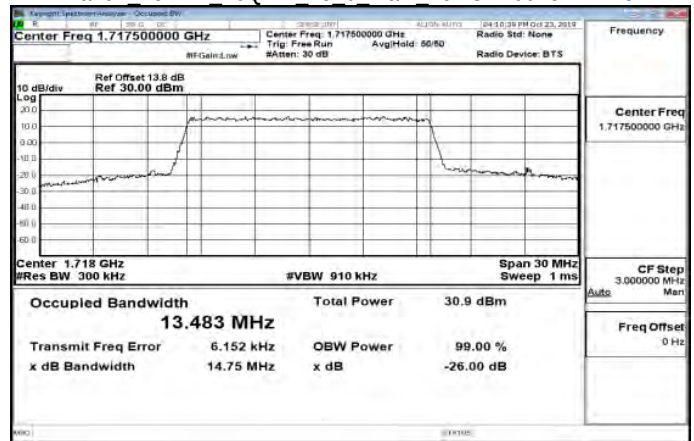
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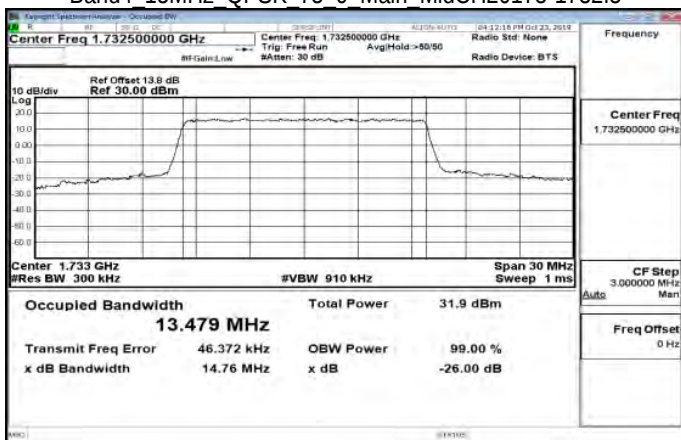
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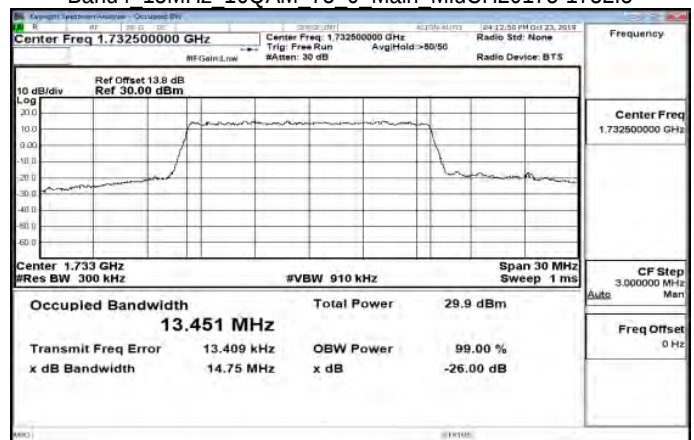
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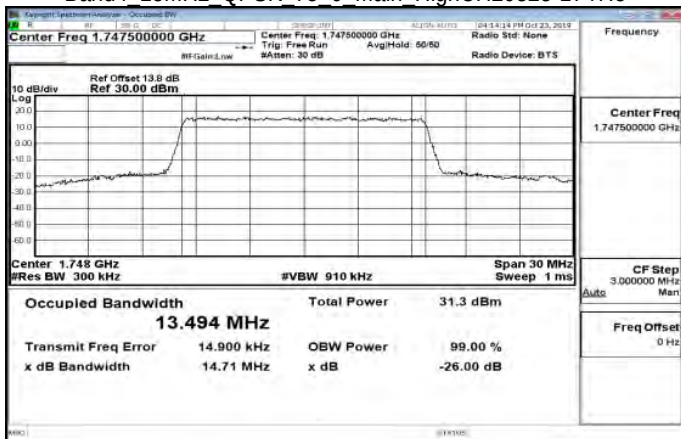
Band4 15MHz QPSK 75 0 Main MidCH20175-1732.5



Band4 15MHz 16QAM 75 0 Main MidCH20175-1732.5



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Band4 15MHz 16QAM 75 0 Main HighCH20325-1747.5

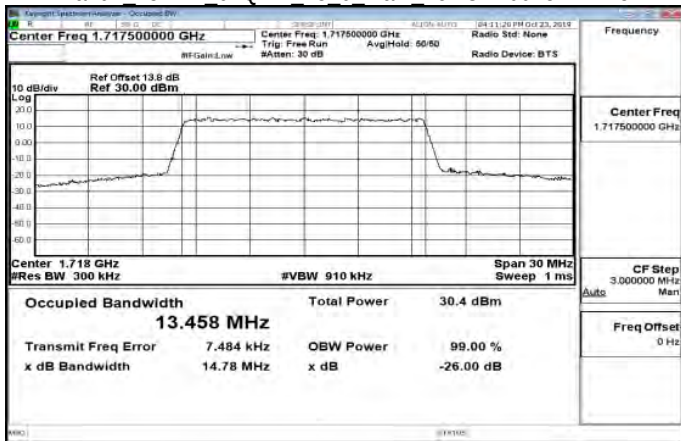


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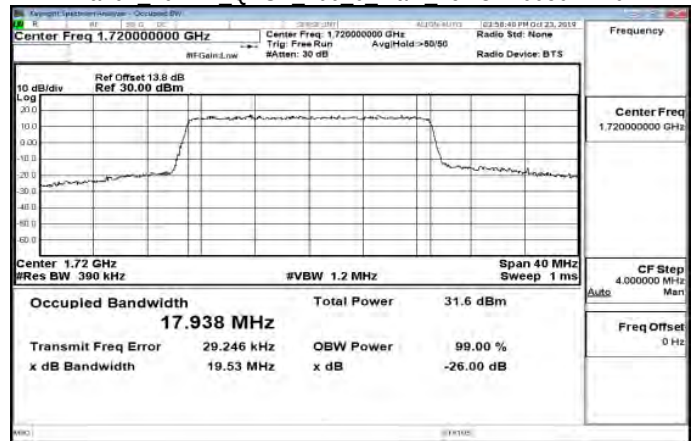
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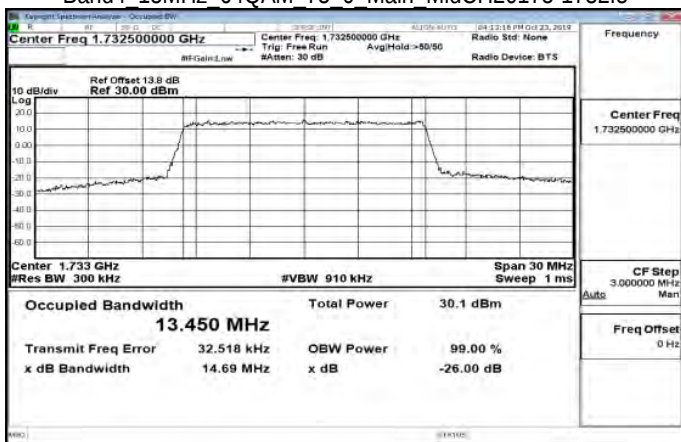
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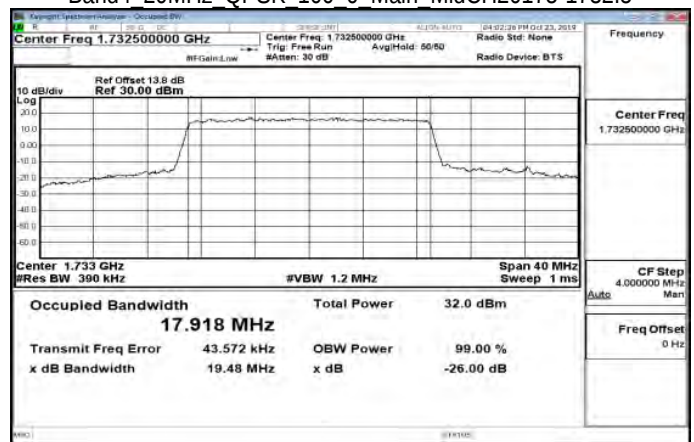
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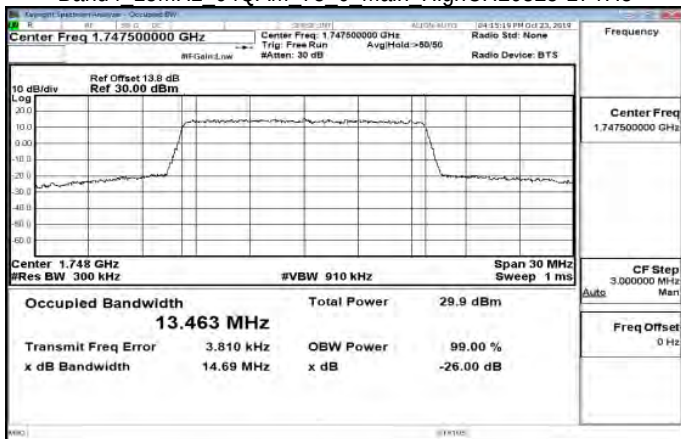
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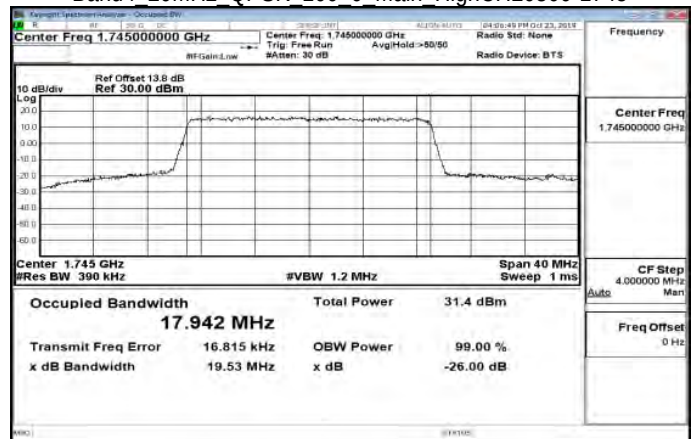
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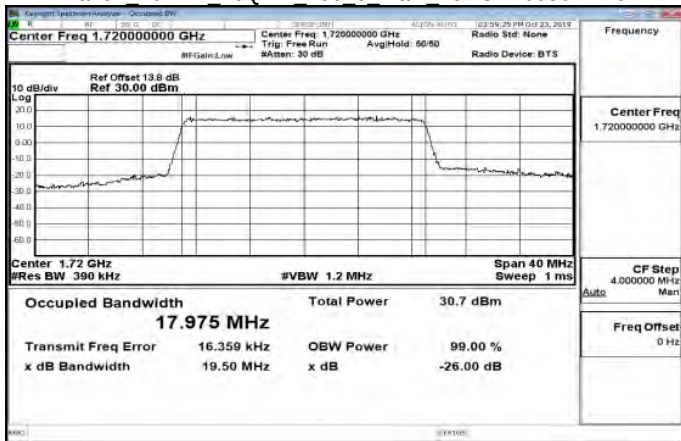


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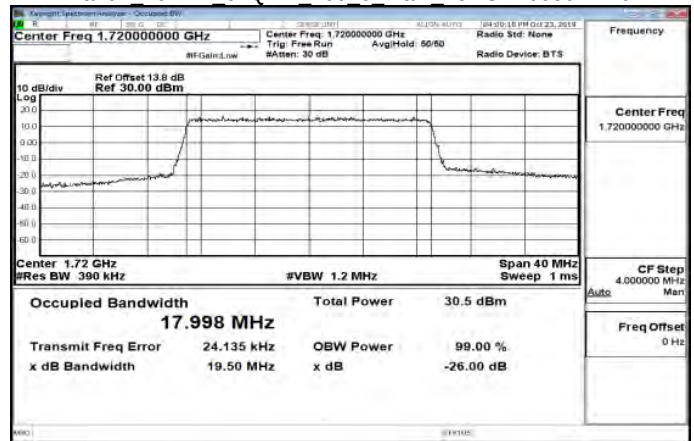
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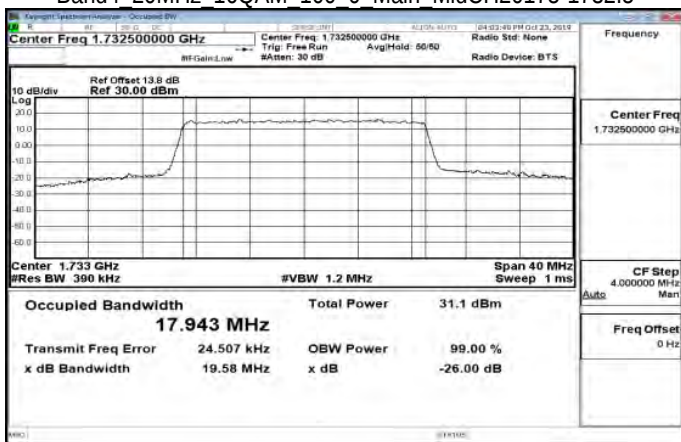
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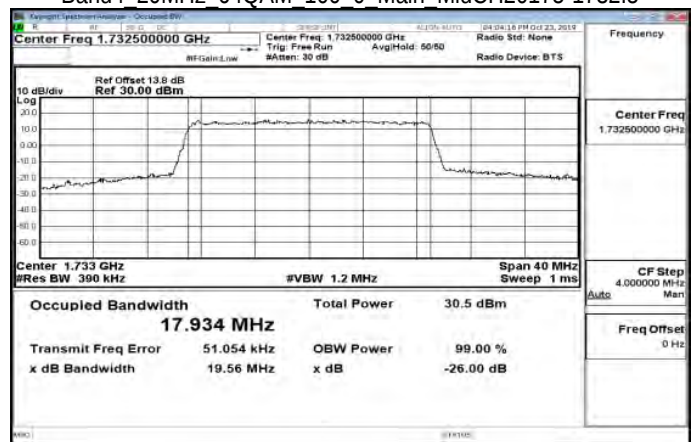
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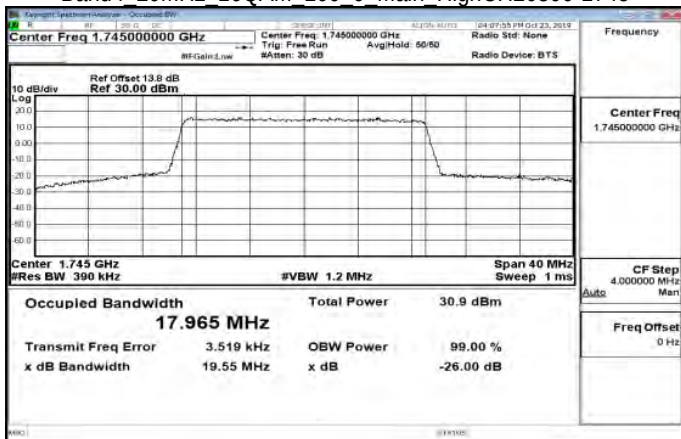
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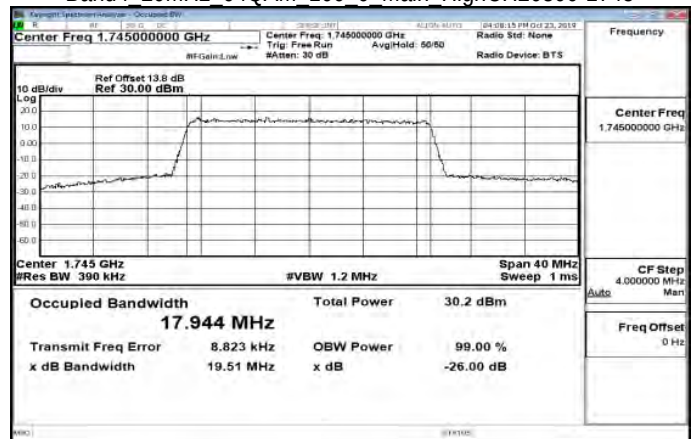
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Band4 20MHz 16QAM 100 0 Main HighCH20300-1745



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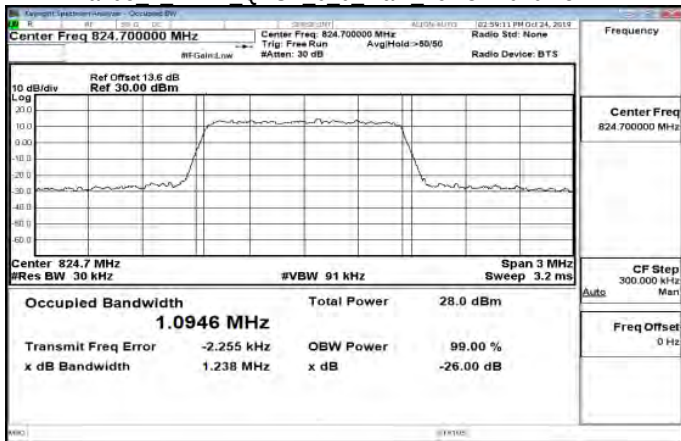


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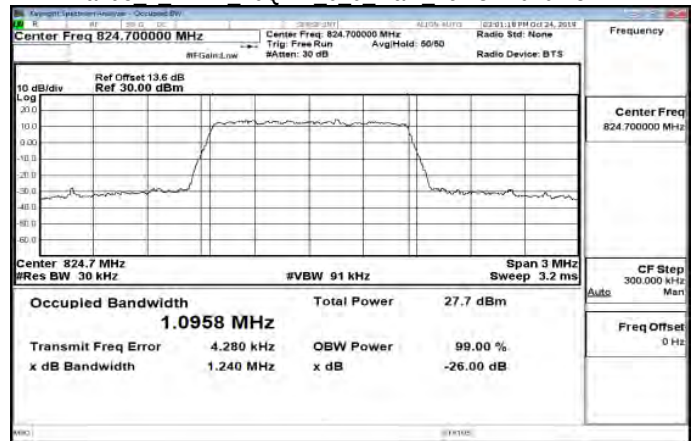
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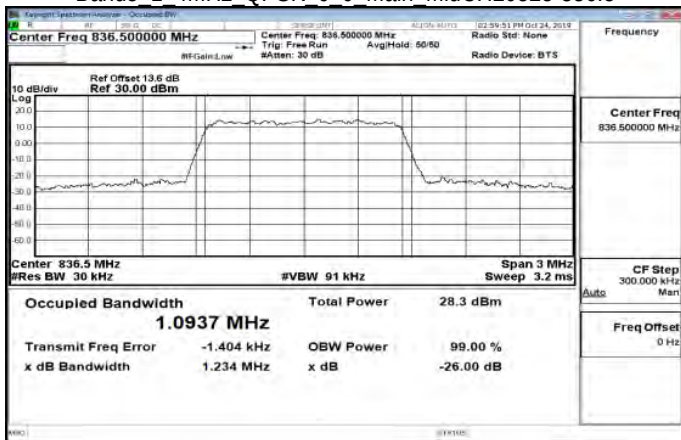
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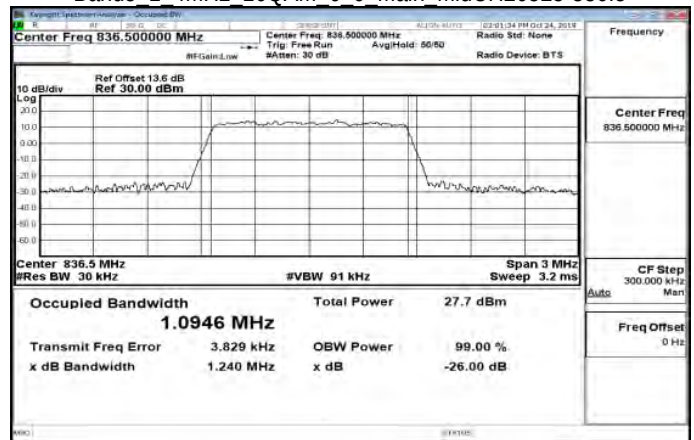
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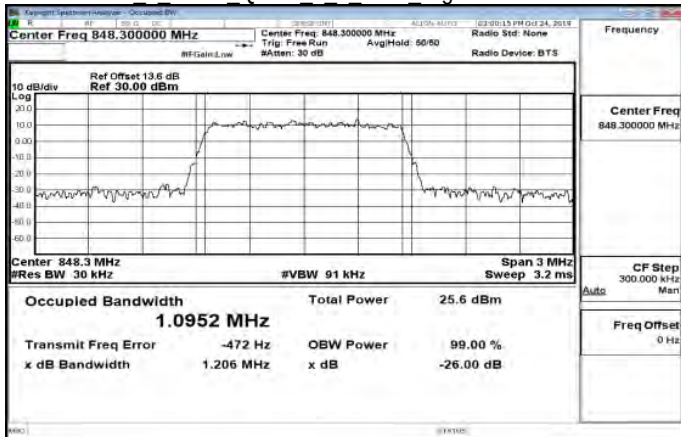
Band5 1 4MHz QPSK 6 0 Main MidCH20525-836.5



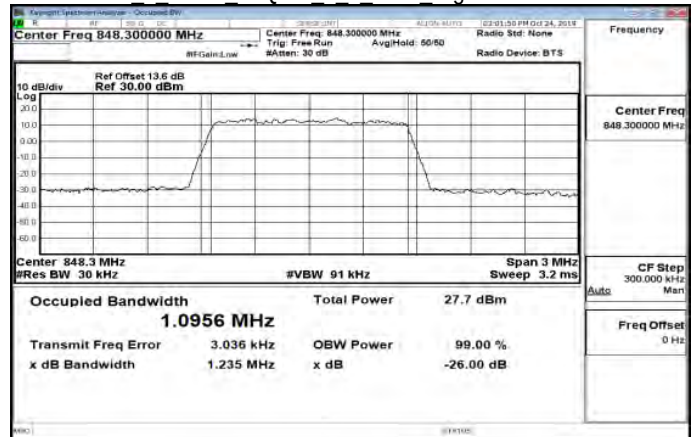
Band5 1 4MHz 16QAM 6 0 Main MidCH20525-836.5



Band5 1 4MHz QPSK 6 0 Main HighCH20643-848.3



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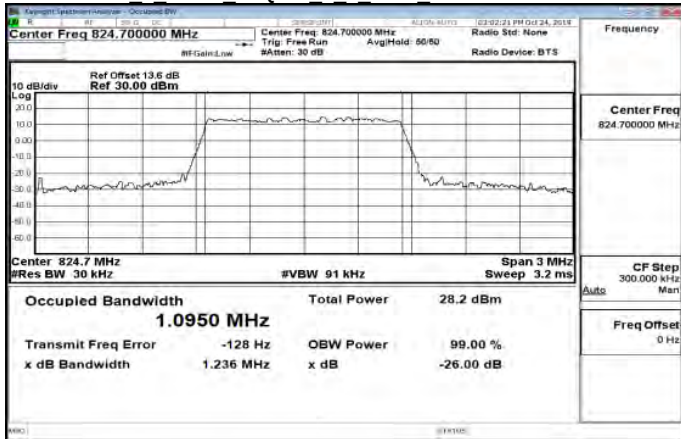


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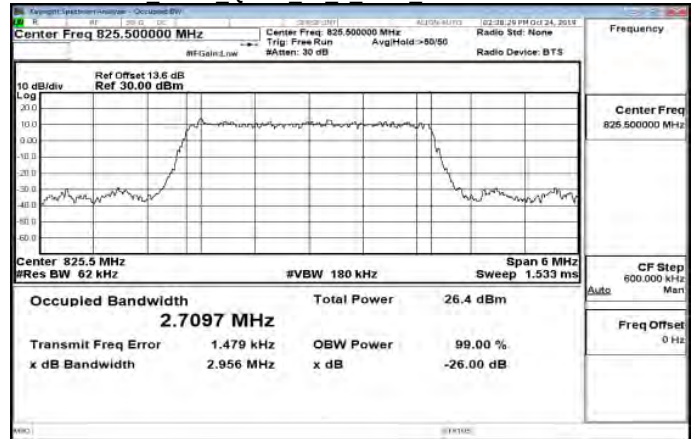
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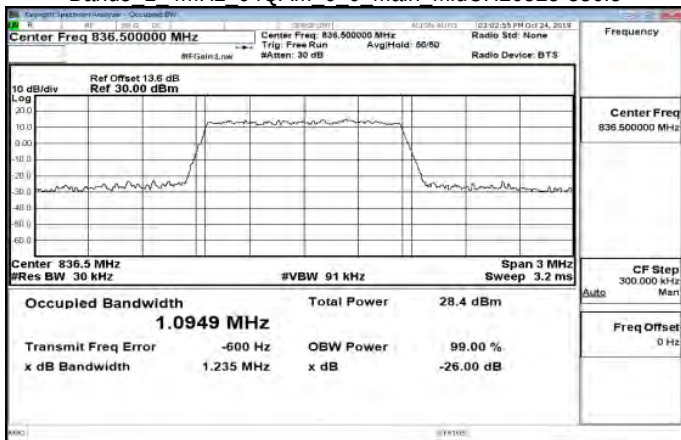
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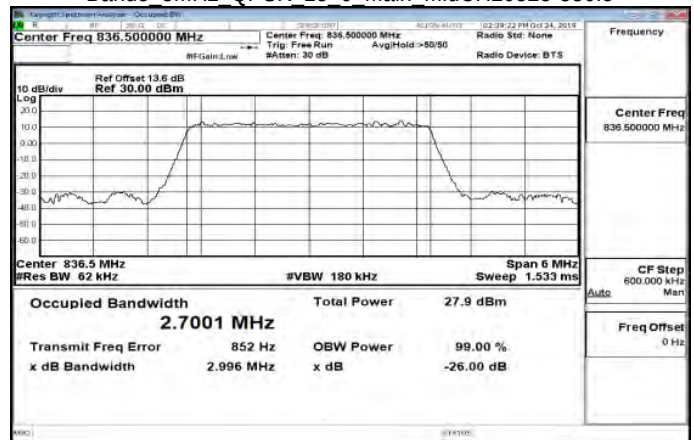
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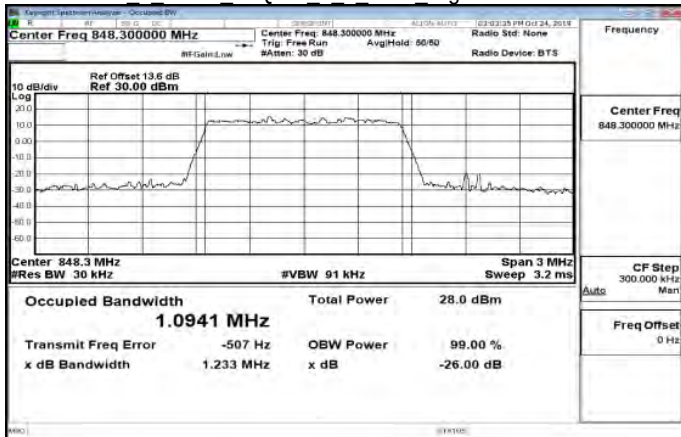
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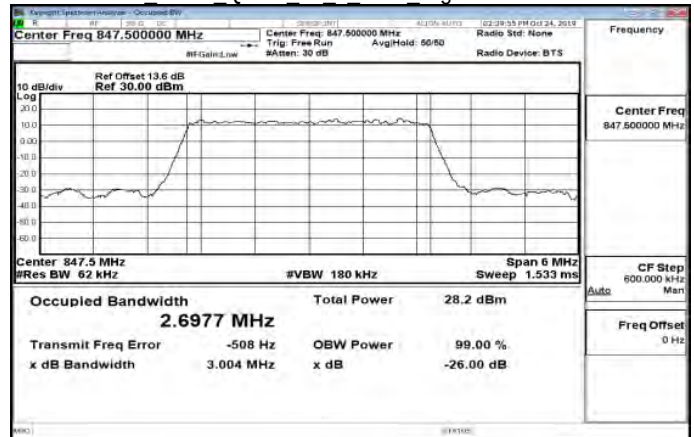
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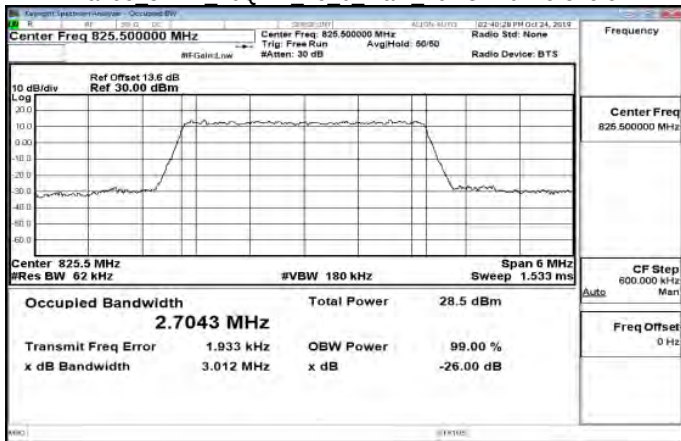


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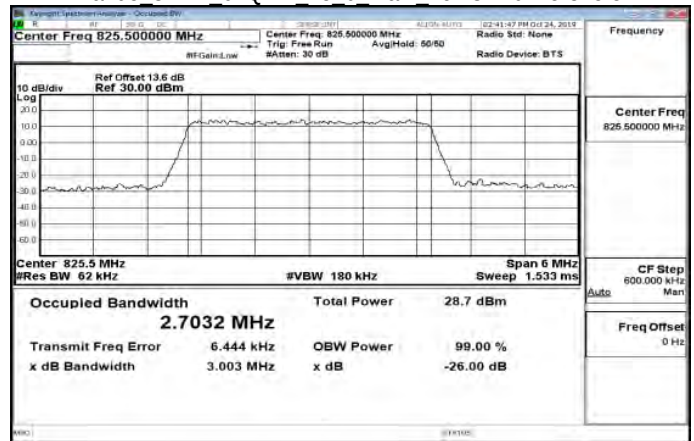
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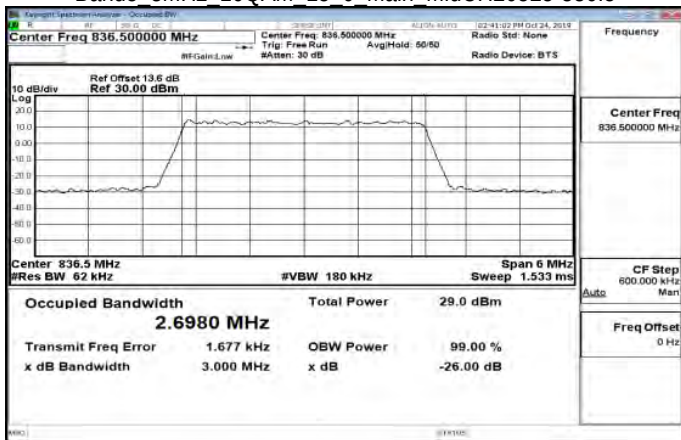
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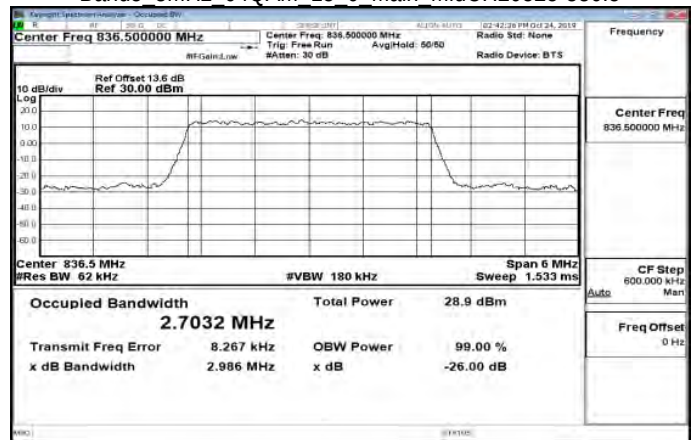
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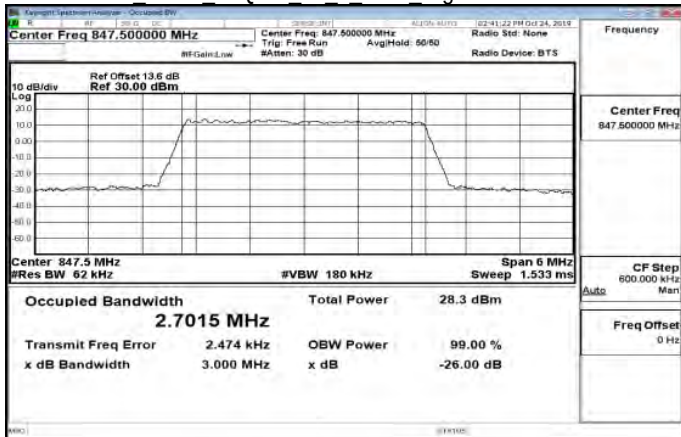
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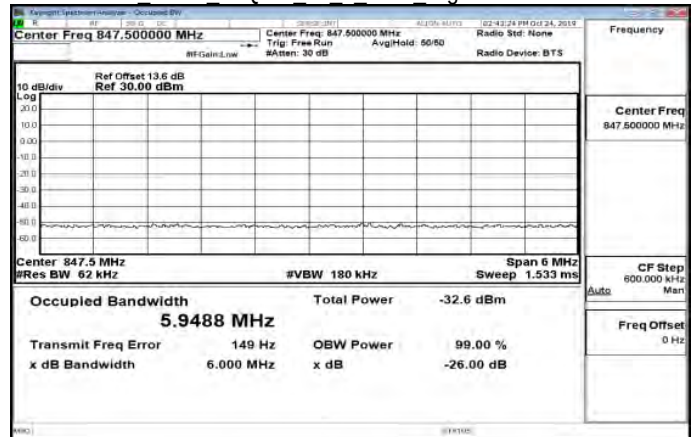
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Band5 3MHz 16QAM 15 0 Main HighCH20635-847.5



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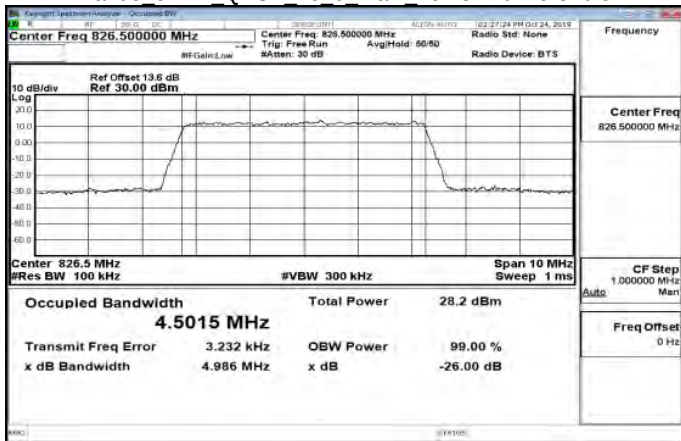


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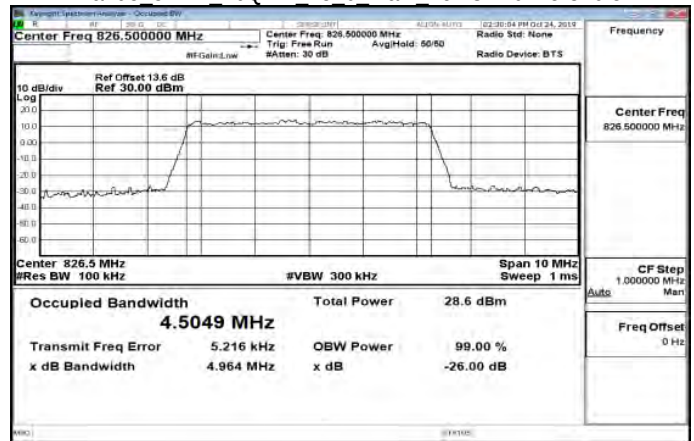
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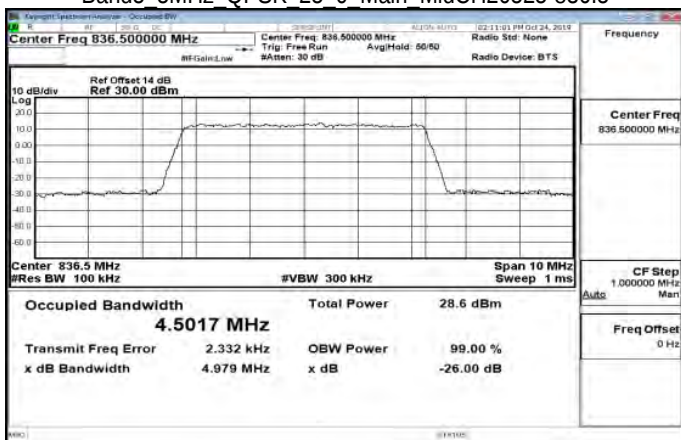
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Band5 5MHz 16QAM 25 0 Main LowCH20425-826.5



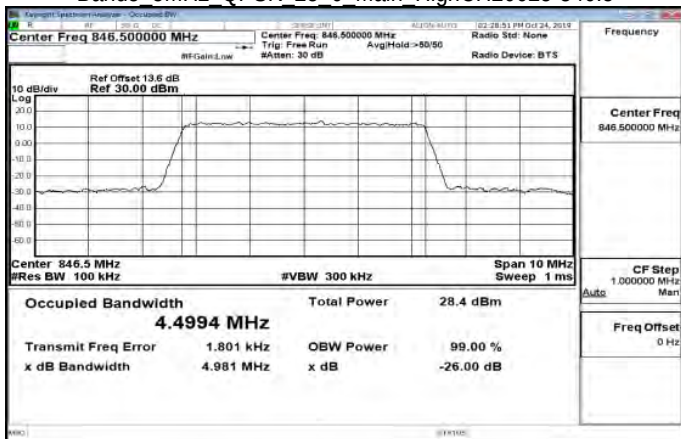
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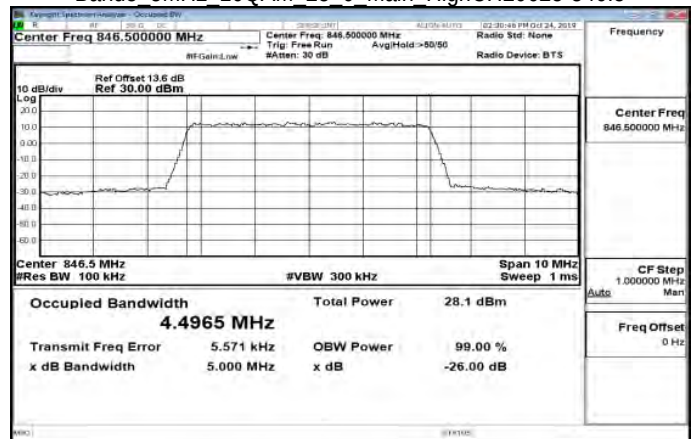
Band5 5MHz 16QAM 25 0 Main MidCH20525-836.5



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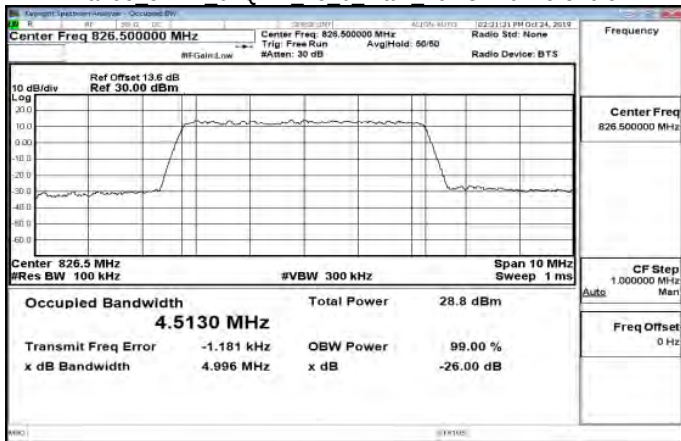


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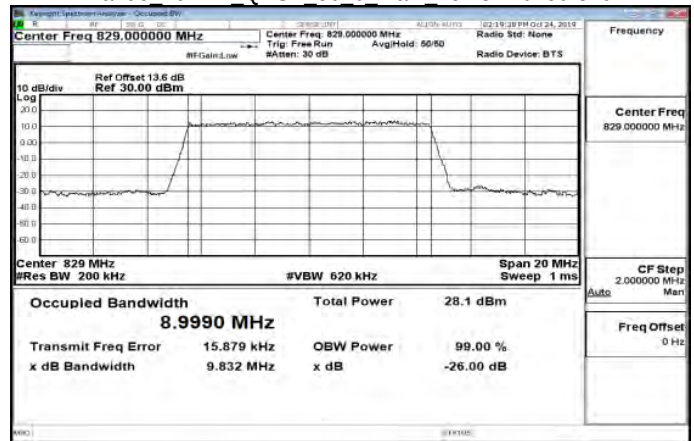
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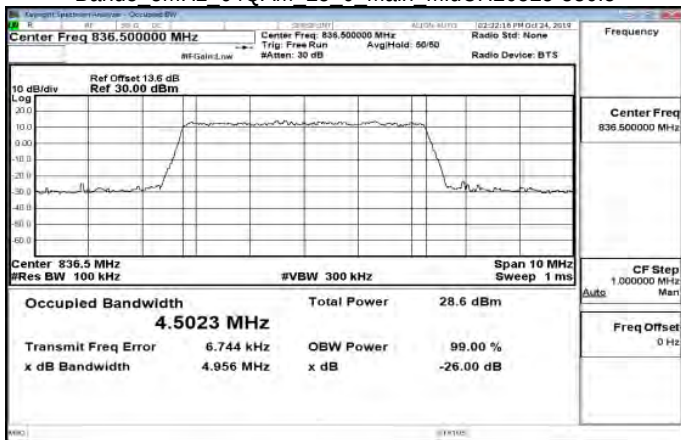
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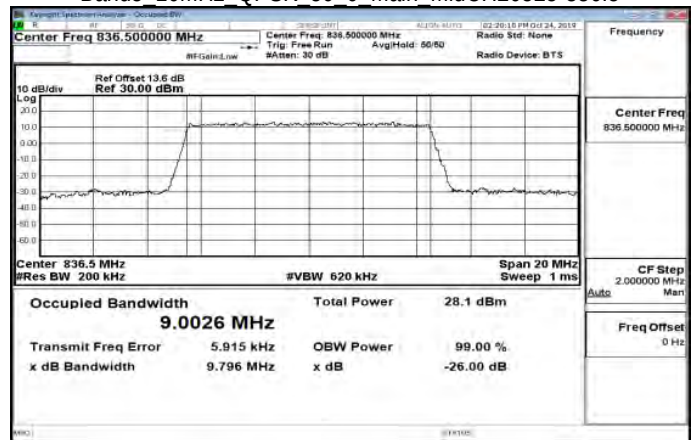
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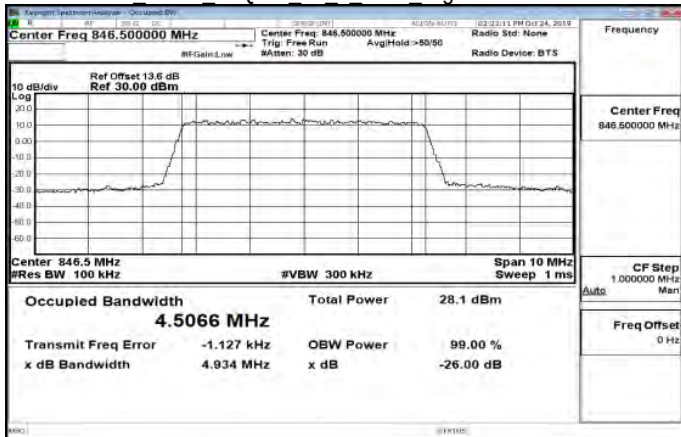
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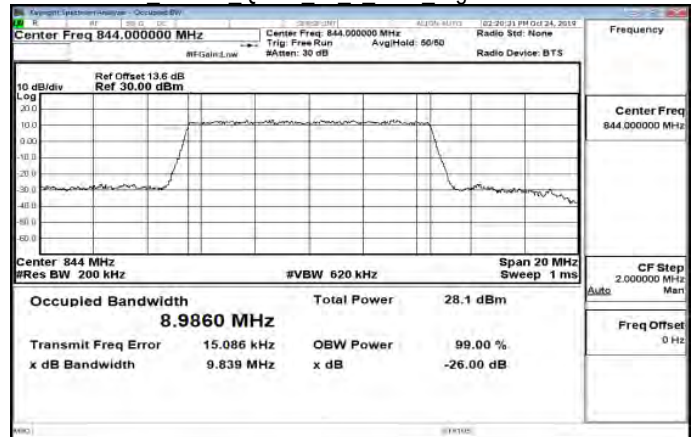
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Band5 5MHz 64QAM 25 0 Main HighCH20625-846.5



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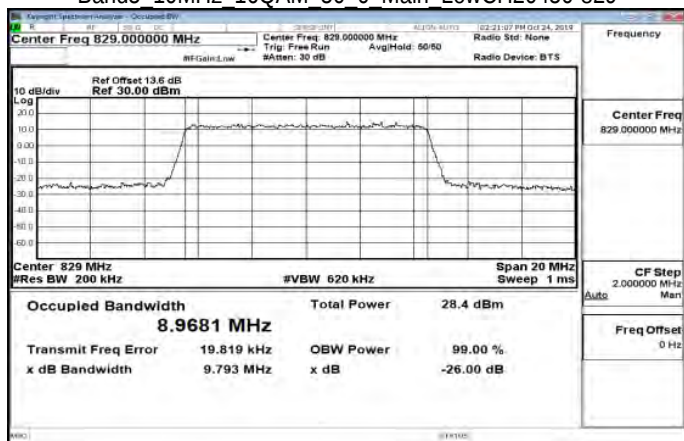


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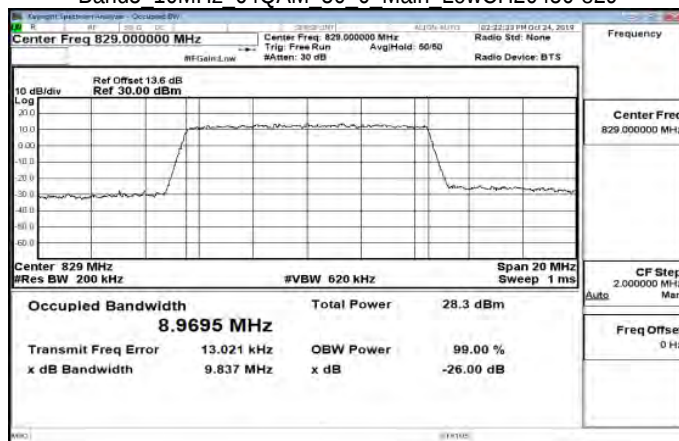
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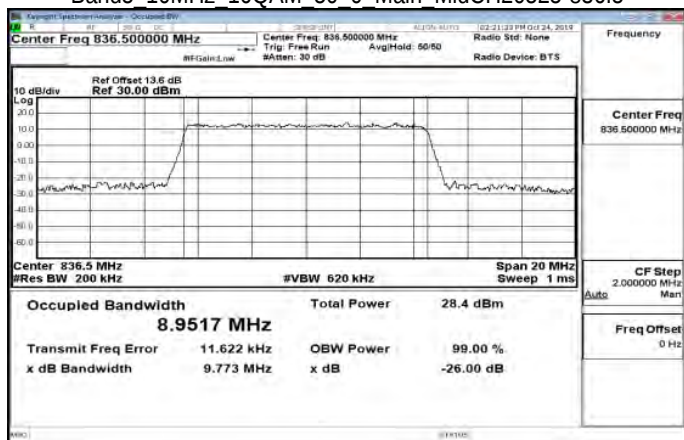
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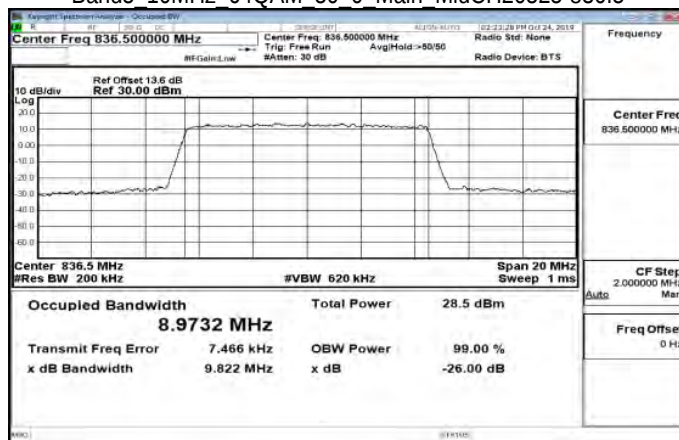
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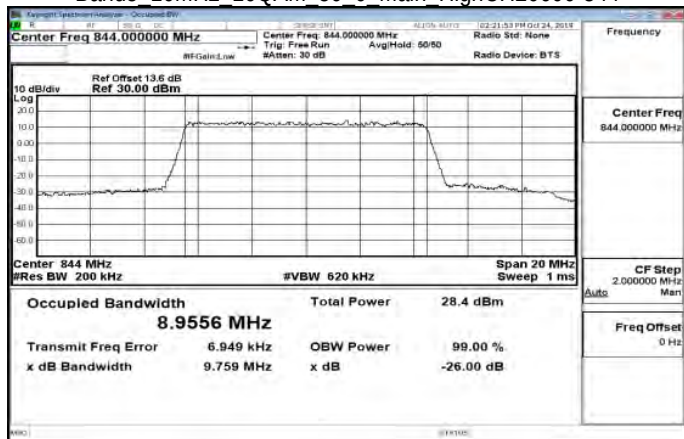
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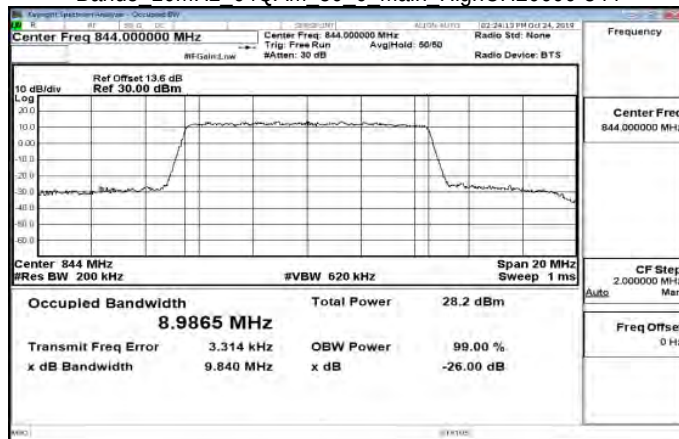
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Band5 10MHz 16QAM 50 0 Main HighCH20600-844



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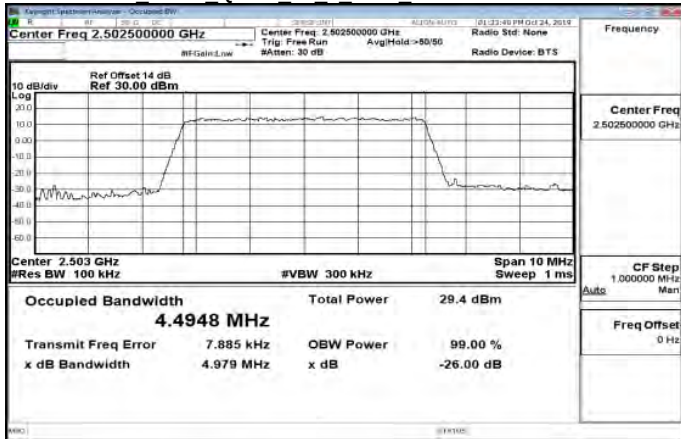


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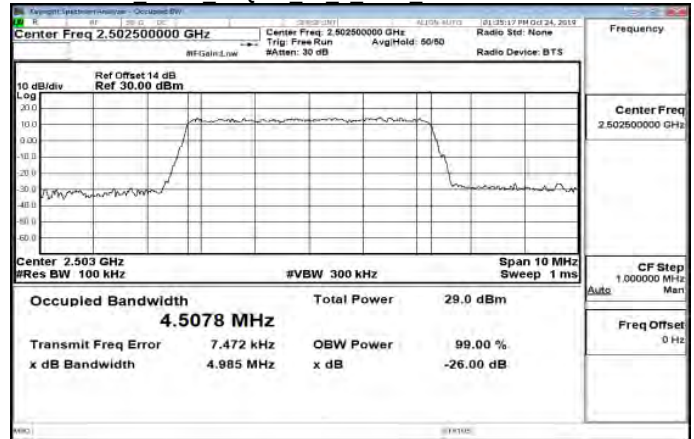
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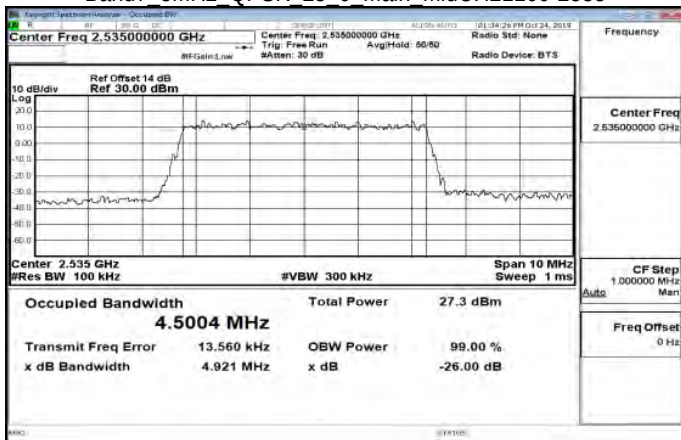
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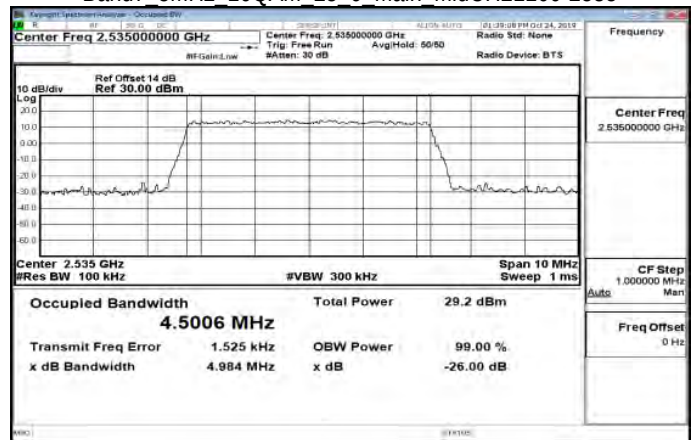
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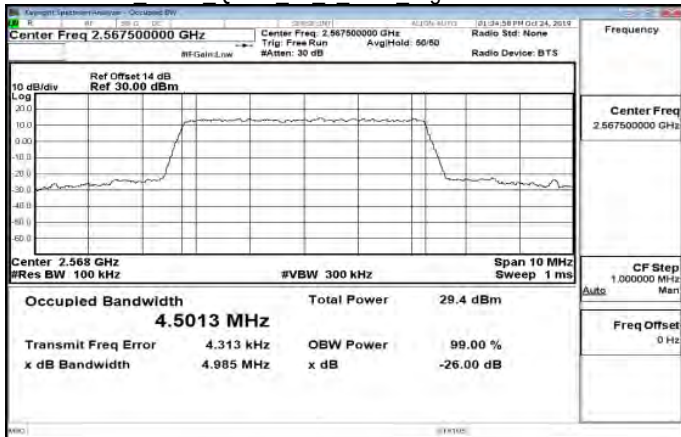
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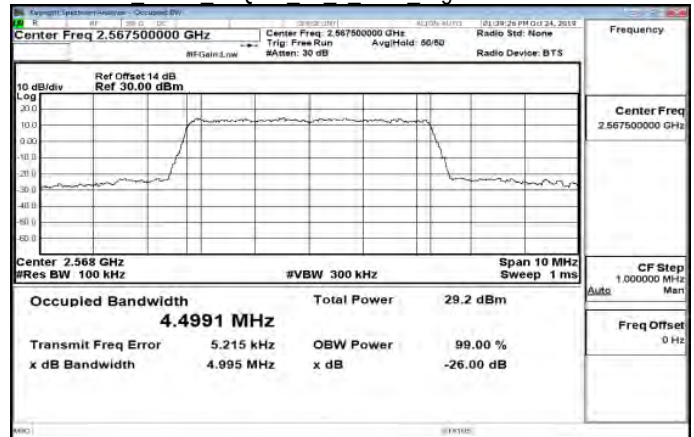
Band7 5MHz 16QAM 25.0 Main MidCH21100-2535



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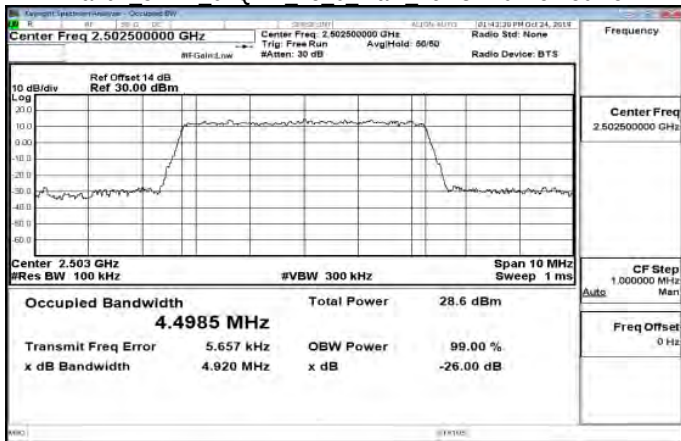


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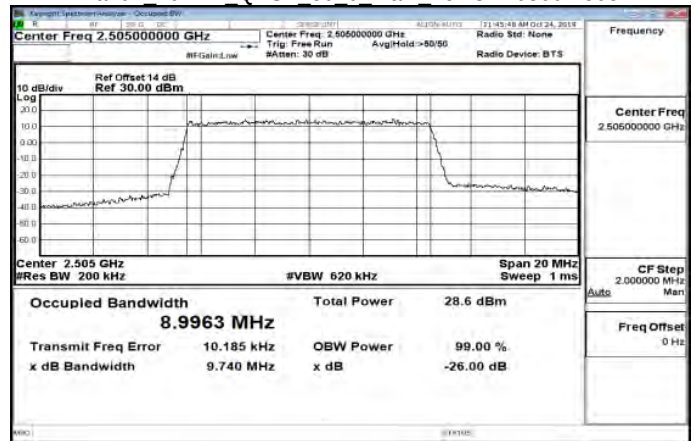
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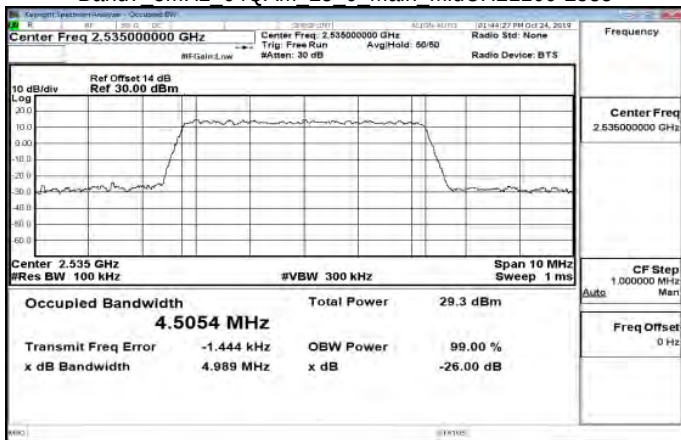
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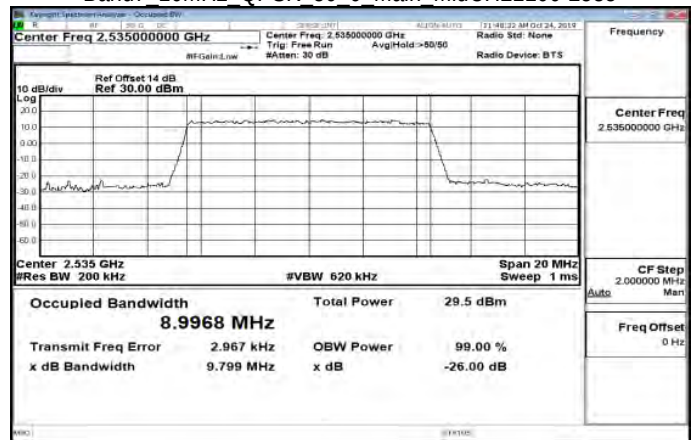
Band7 10MHz QPSK 50 0 Main LowCH20800-2505



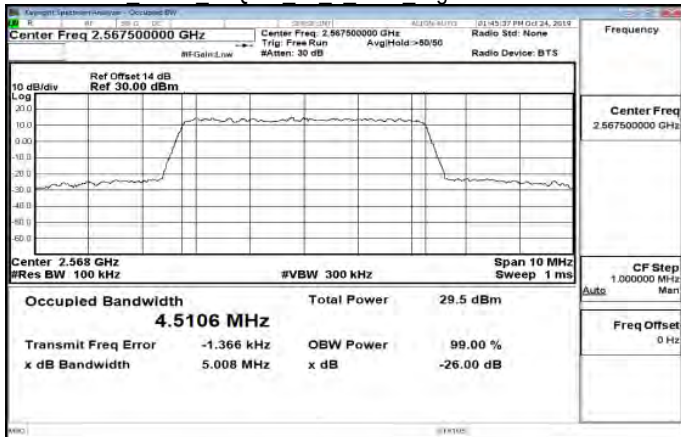
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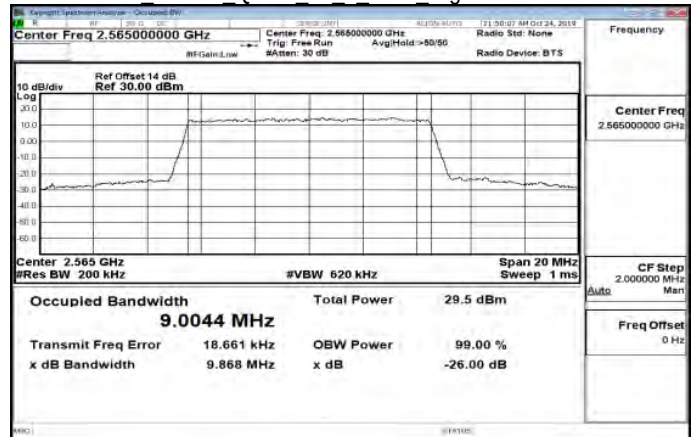
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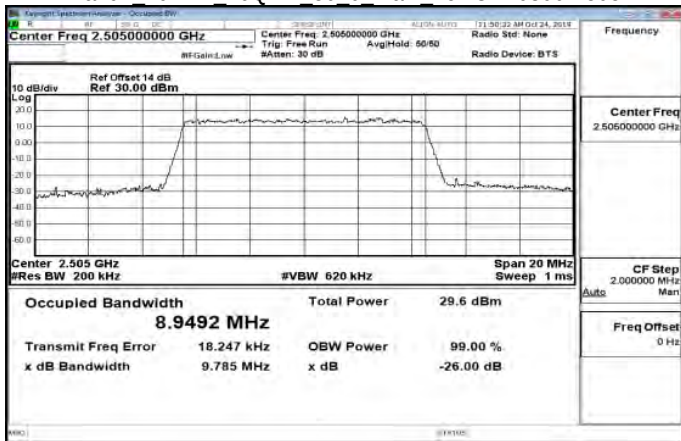


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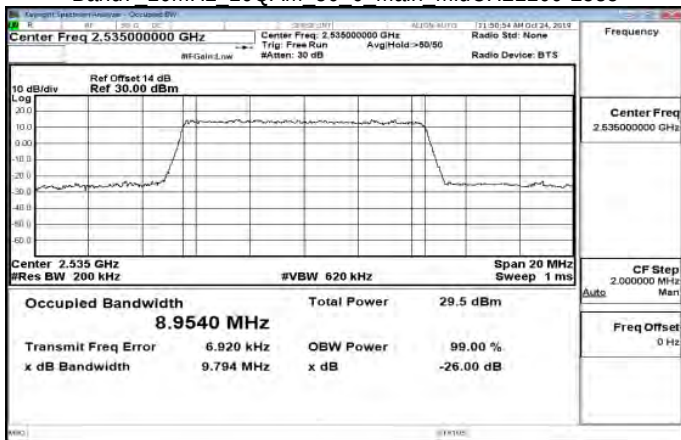
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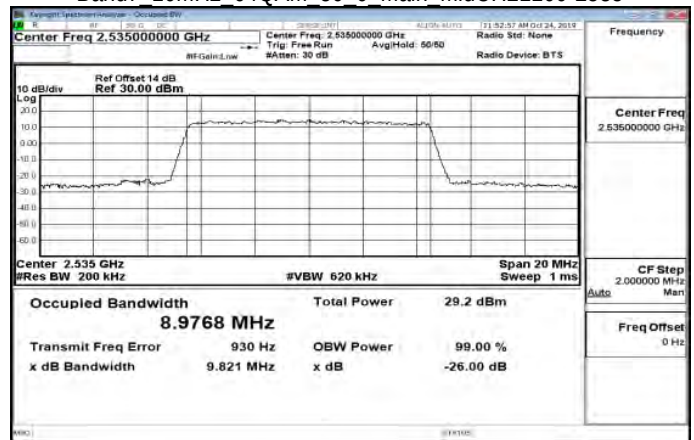
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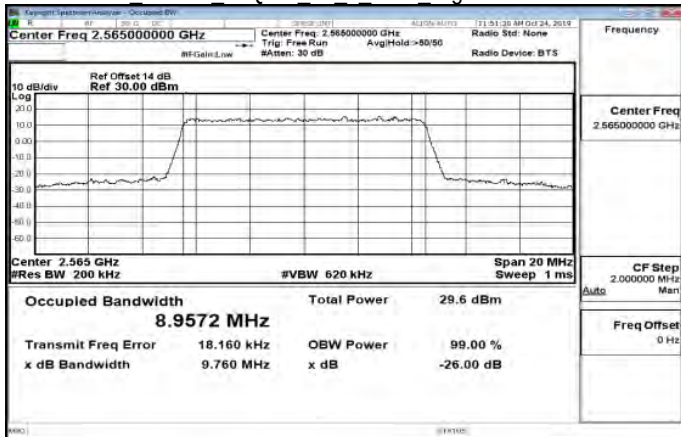
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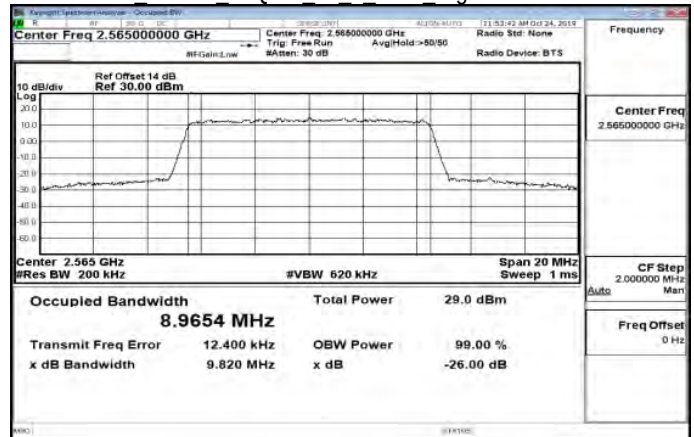
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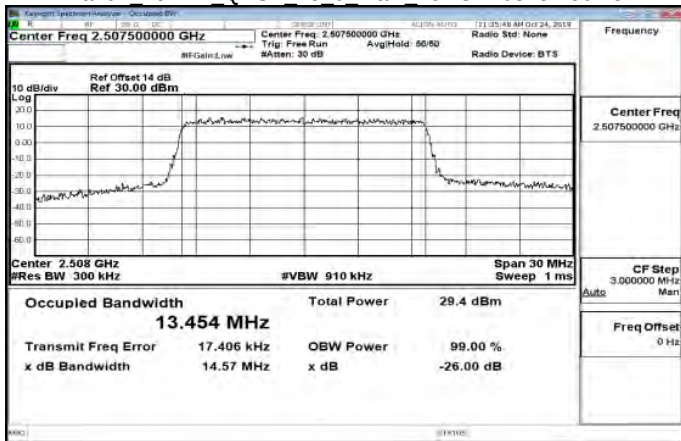


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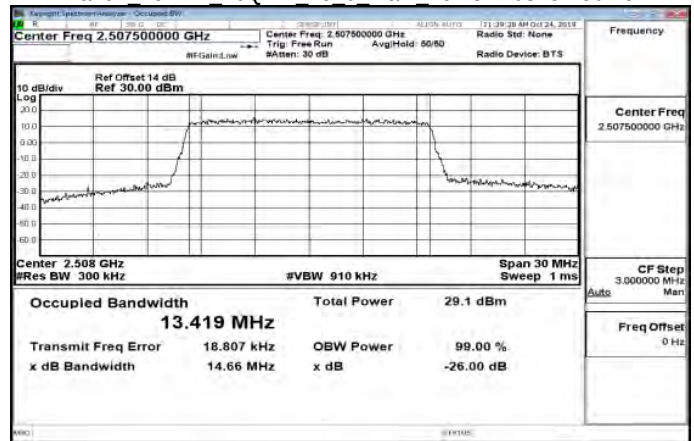
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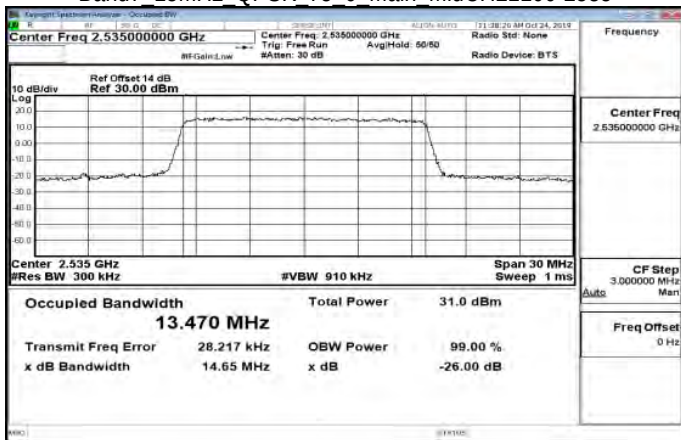
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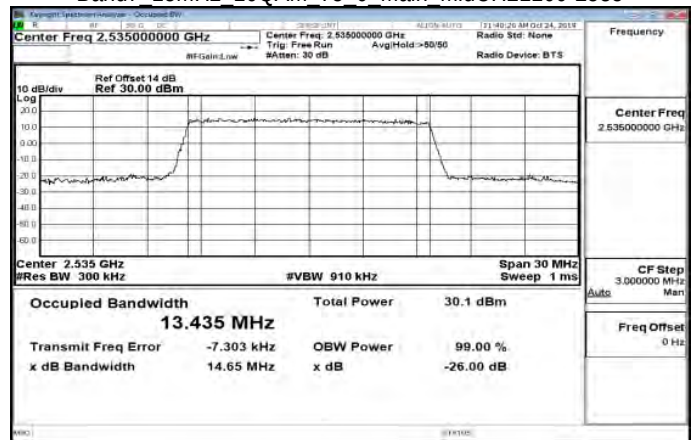
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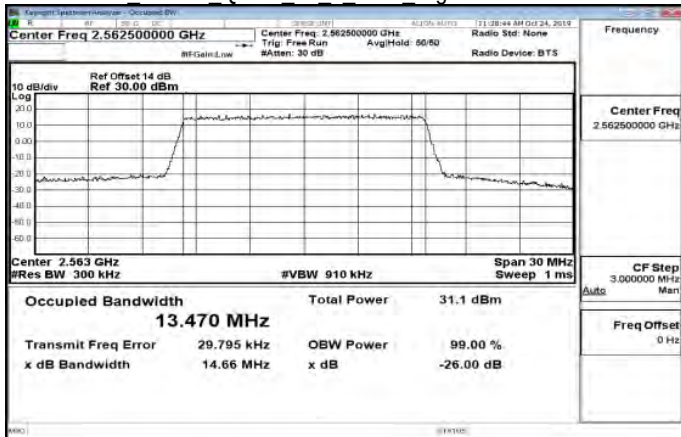
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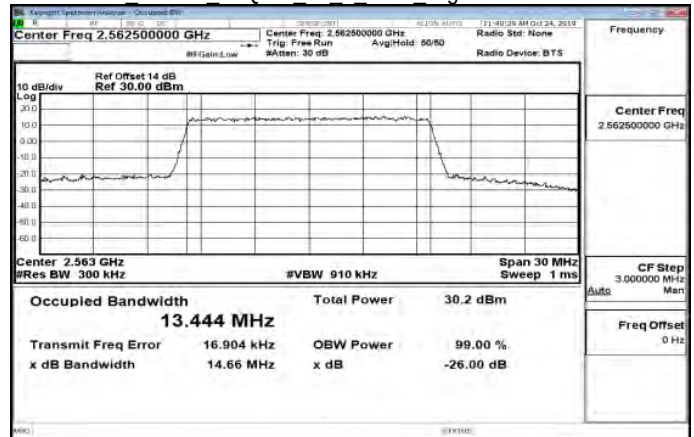
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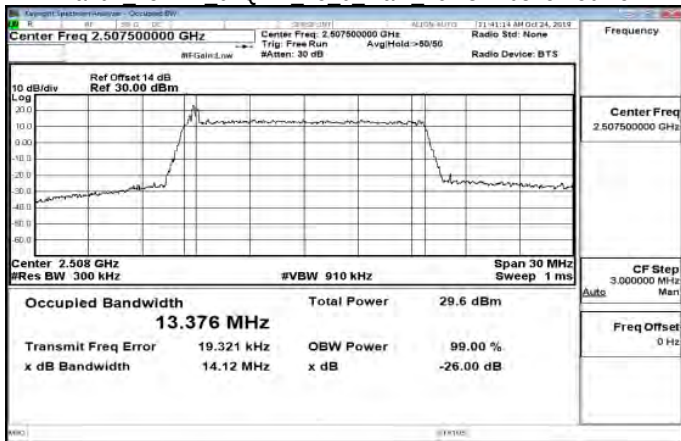


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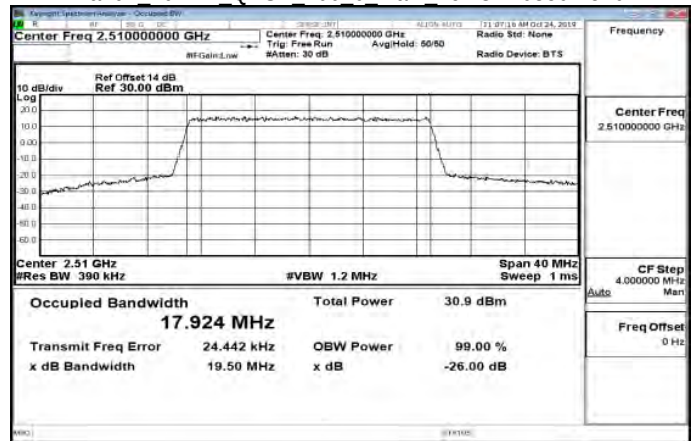
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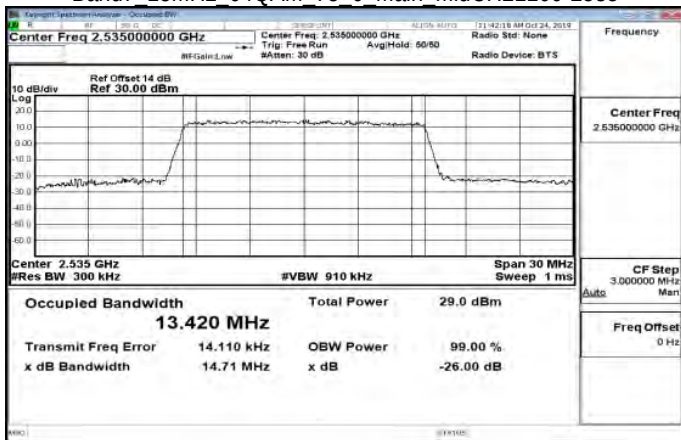
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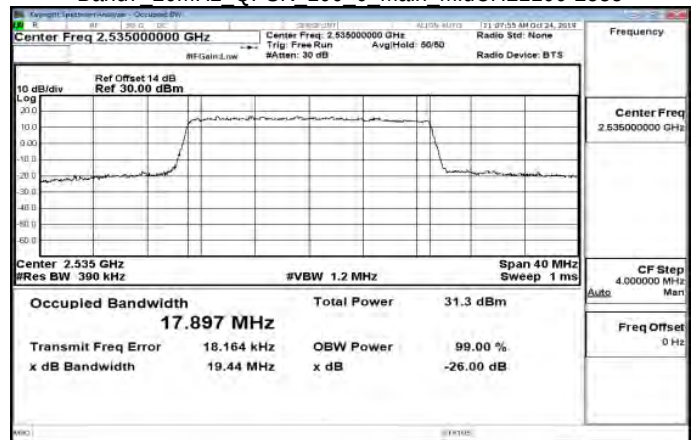
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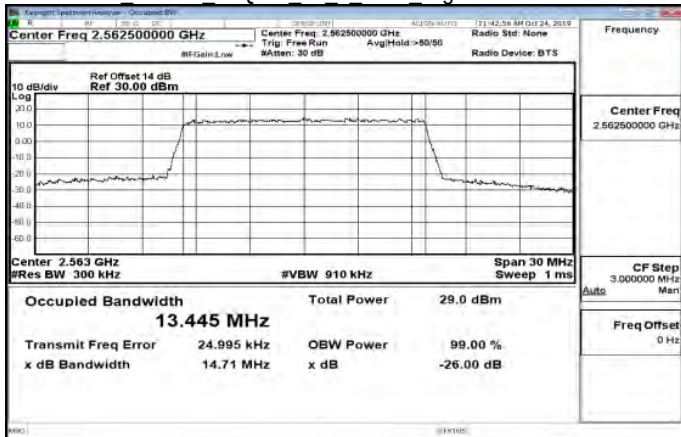
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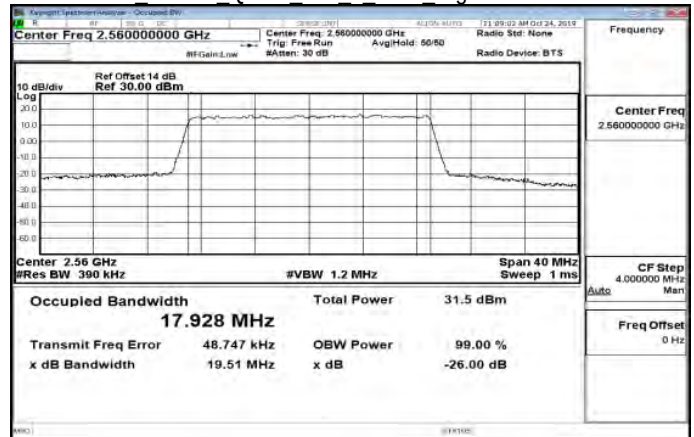
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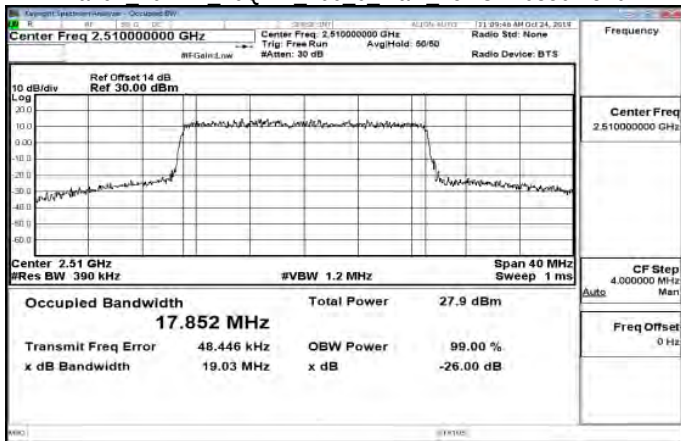


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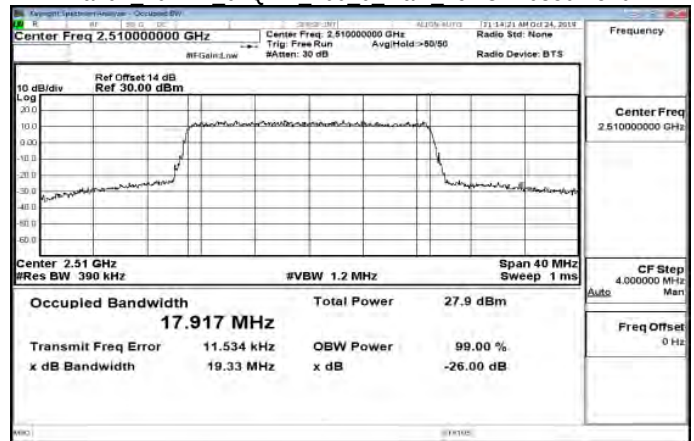
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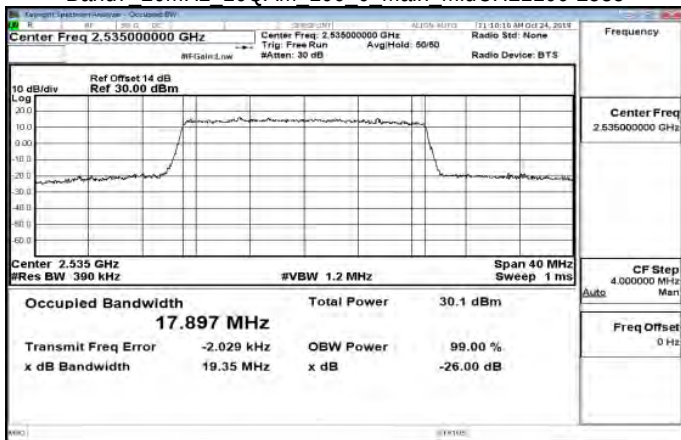
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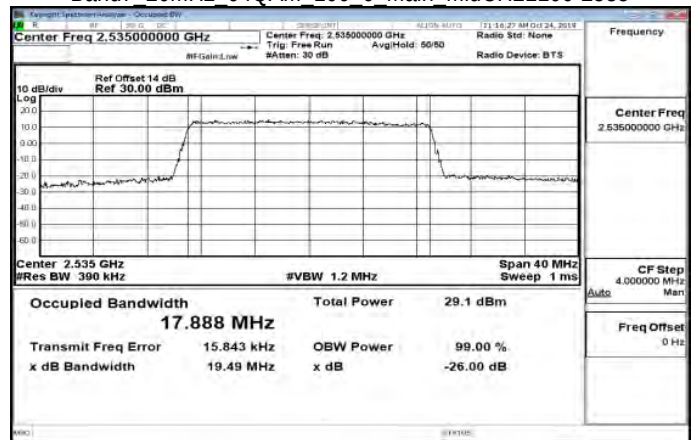
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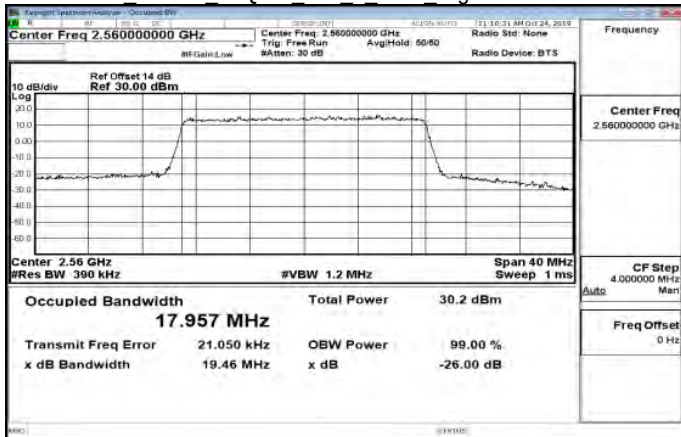
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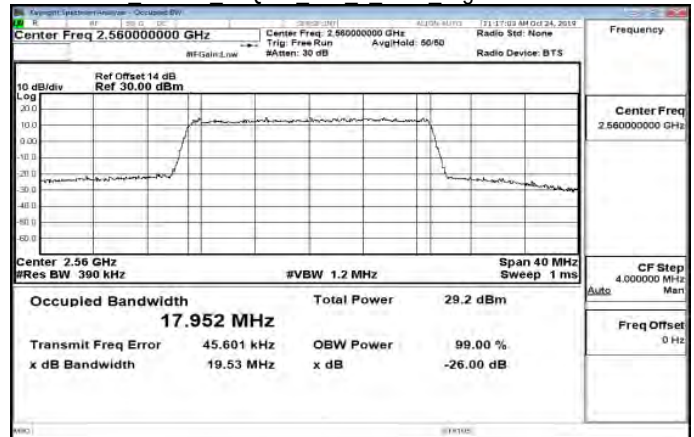
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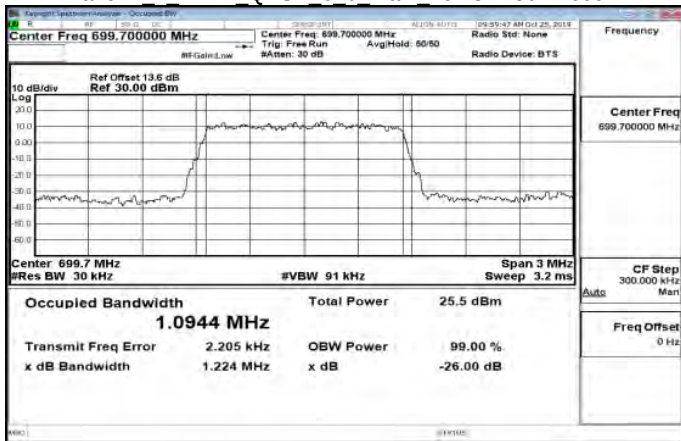


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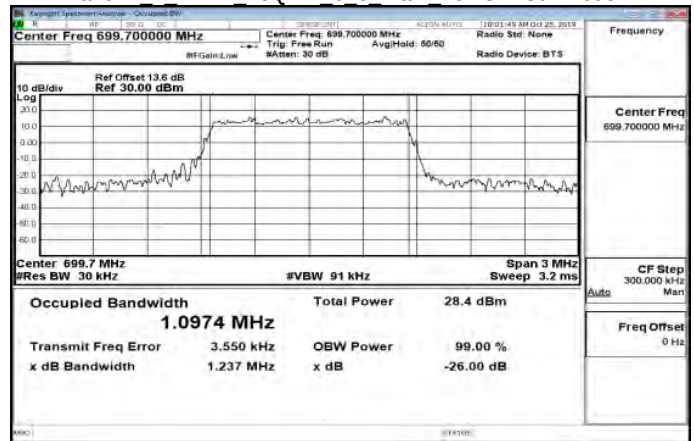
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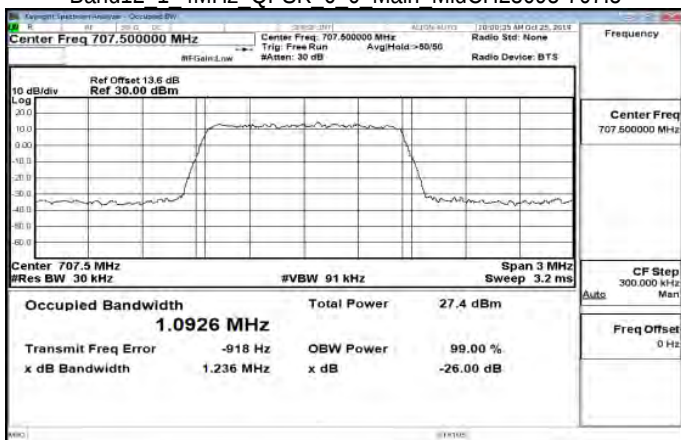
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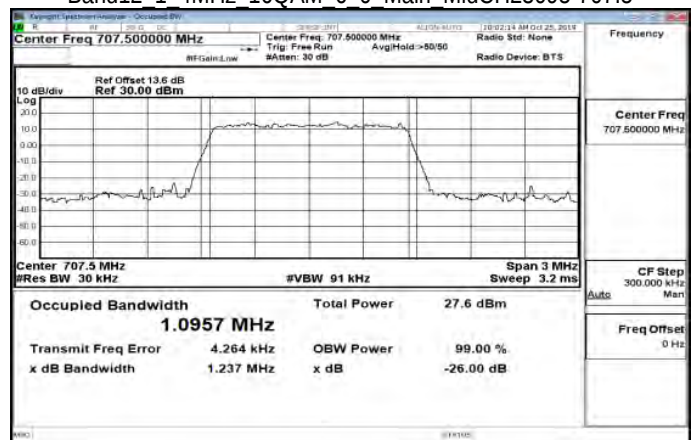
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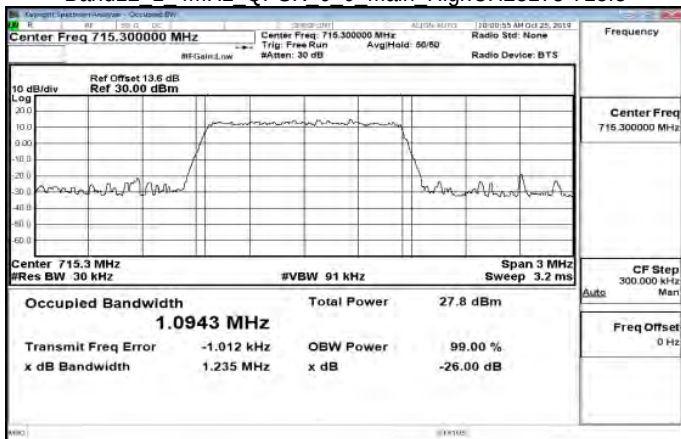
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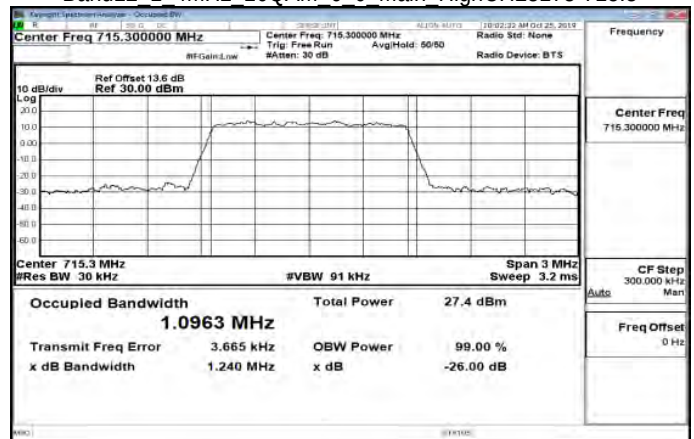
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Band12 1 4MHz QPSK 6 0 Main HighCH23173-715.3



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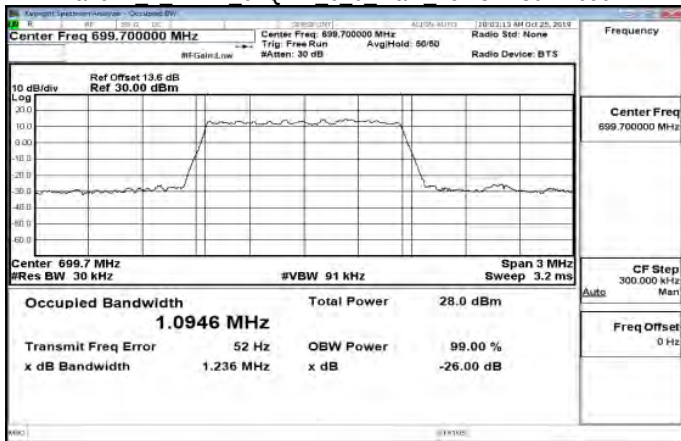


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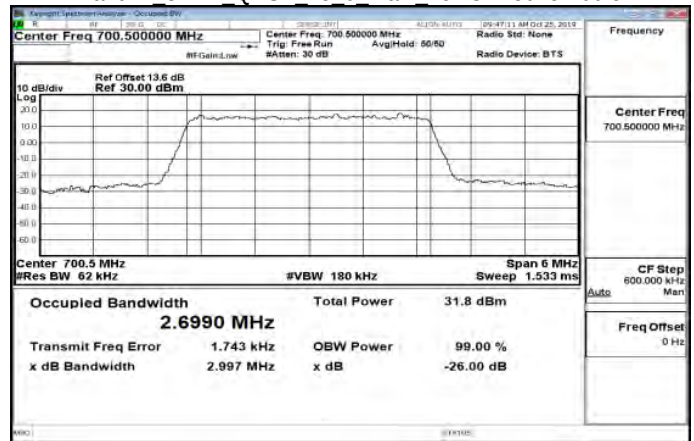
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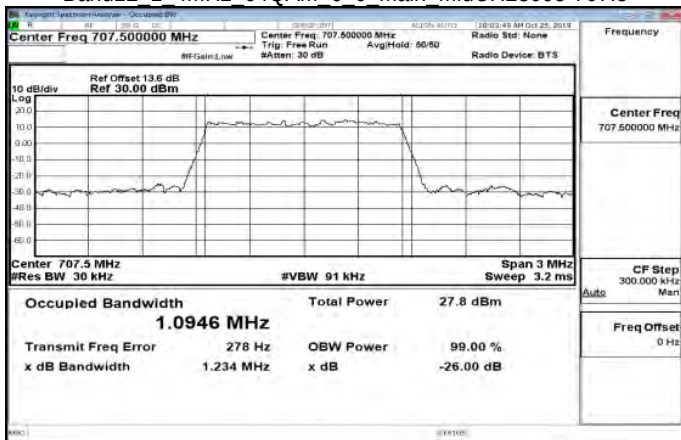
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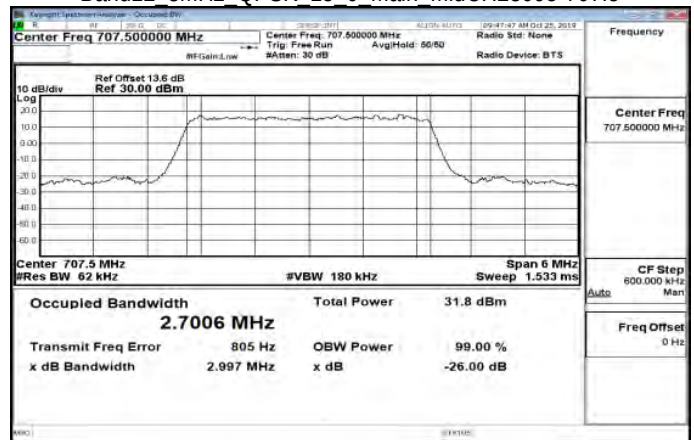
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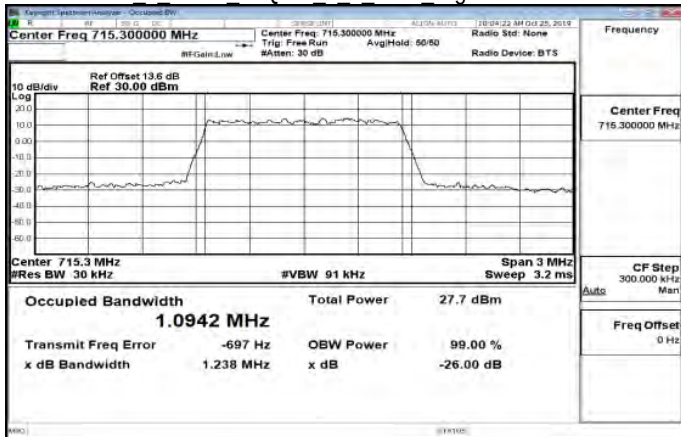
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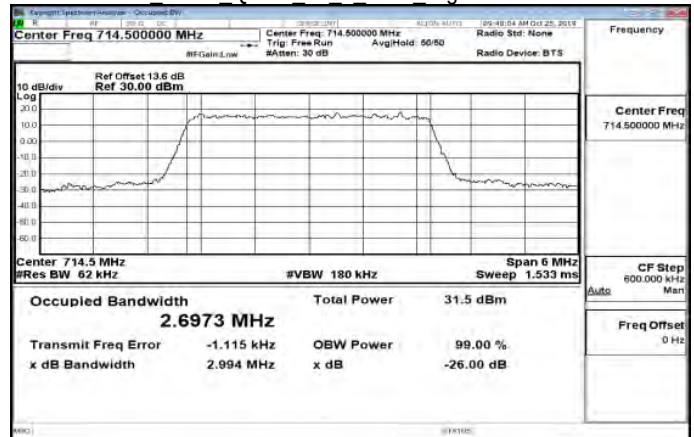
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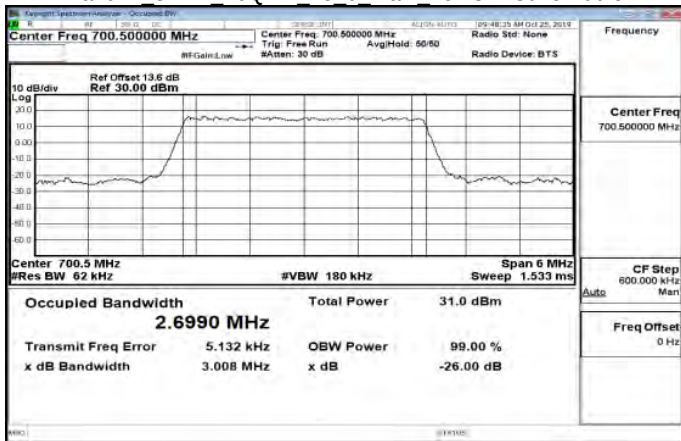


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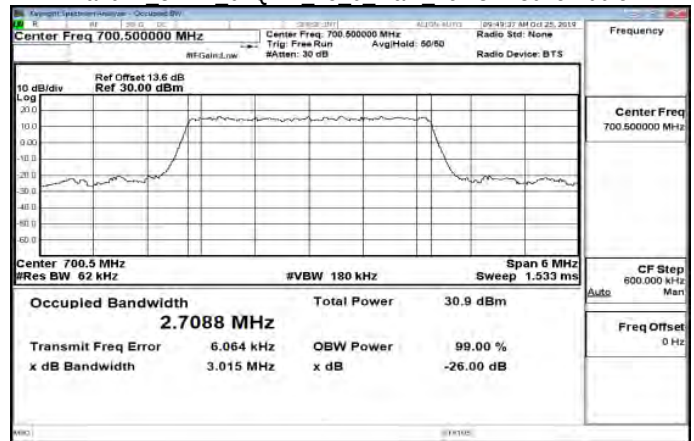
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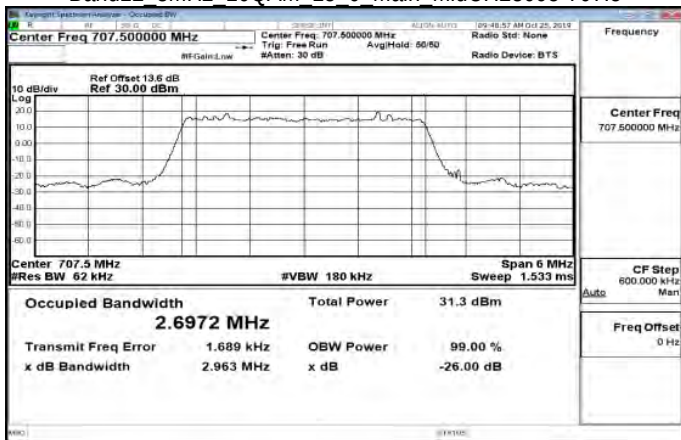
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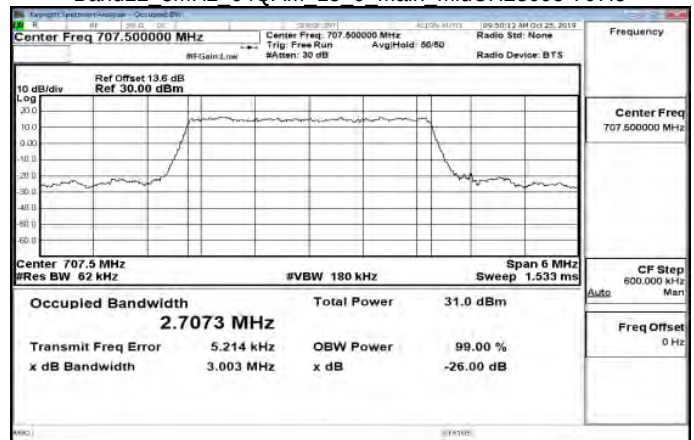
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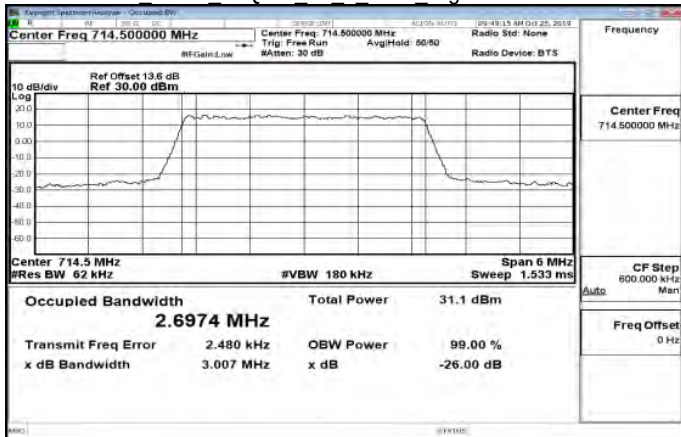
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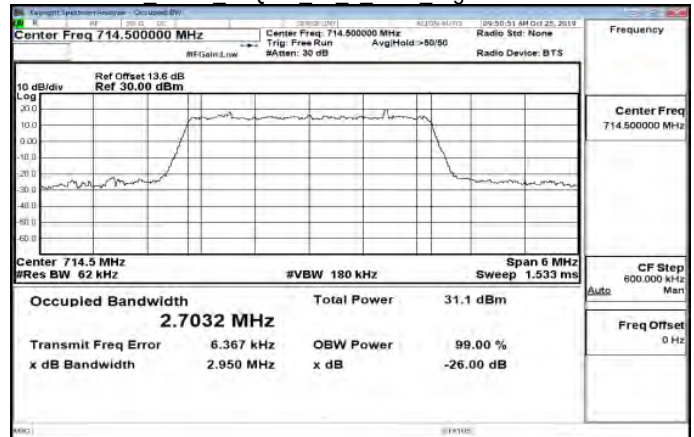
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Band12 3MHz 16QAM 15 0 Main HighCH23165-714.5



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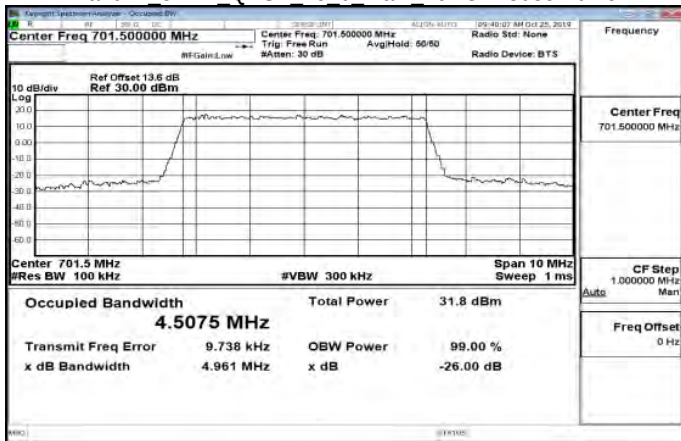


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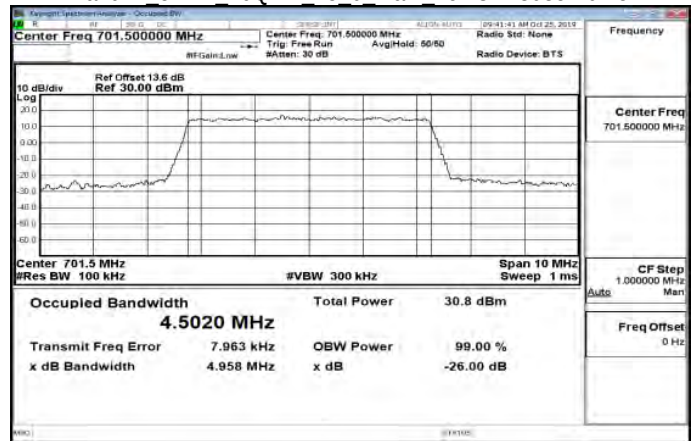
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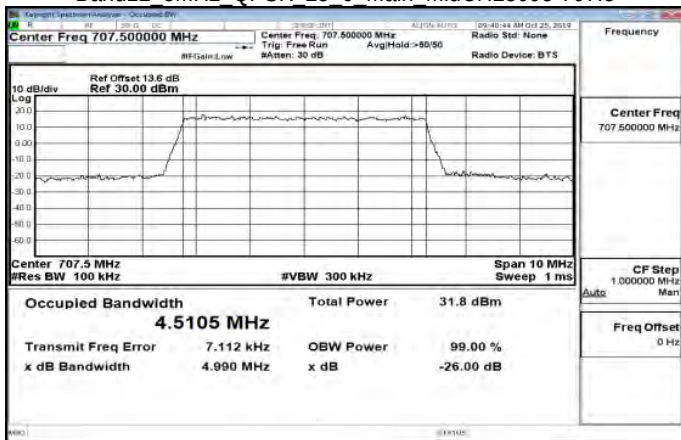
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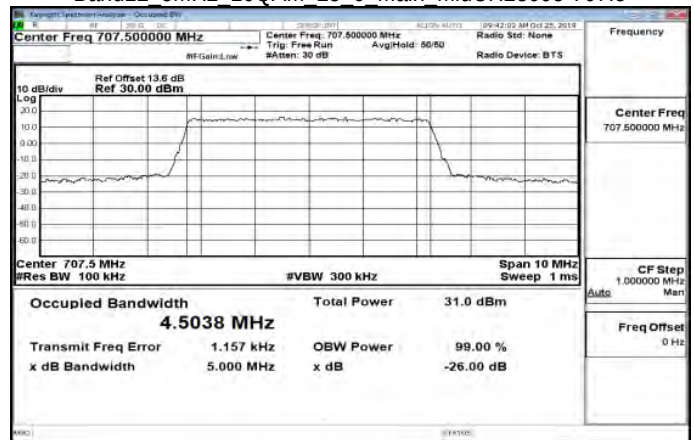
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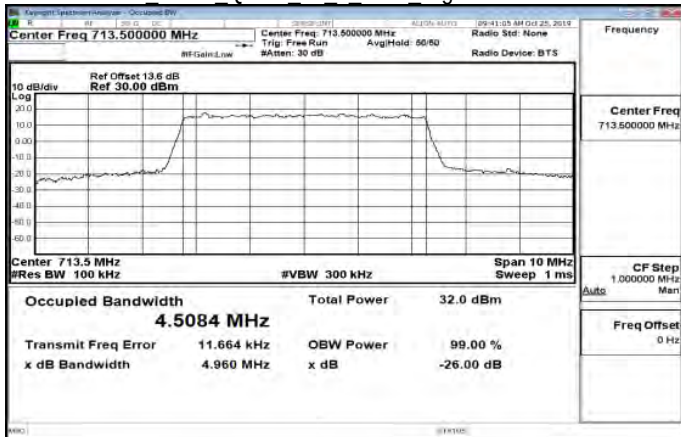
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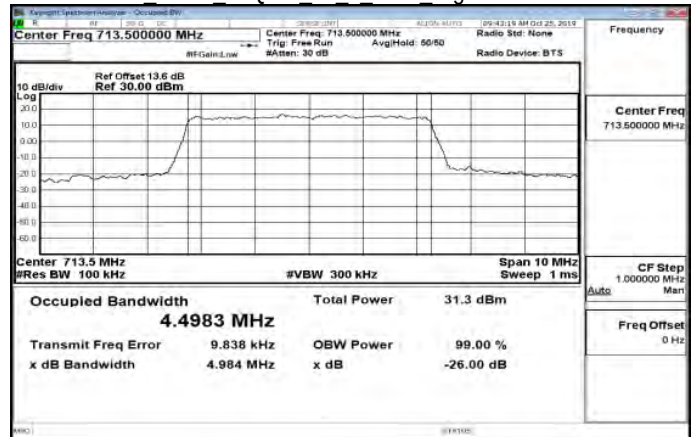
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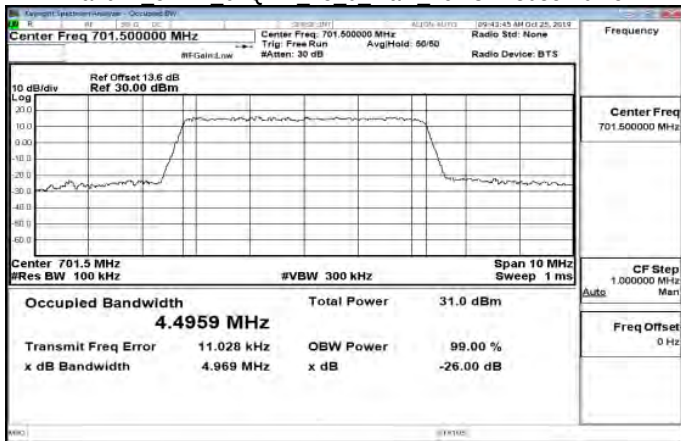


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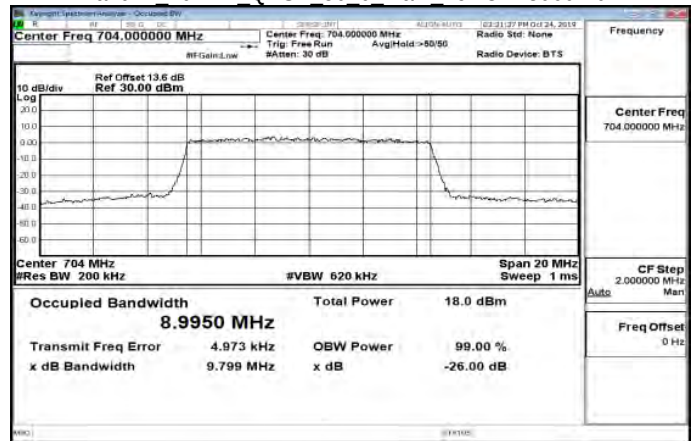
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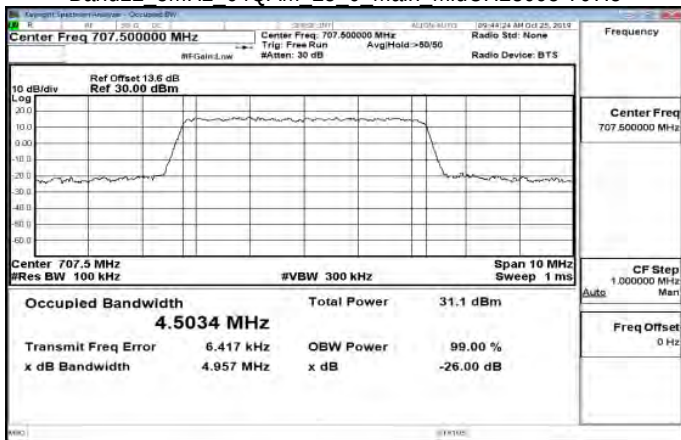
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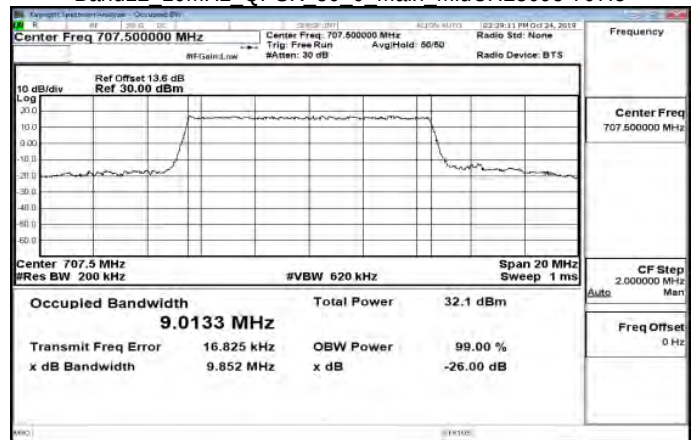
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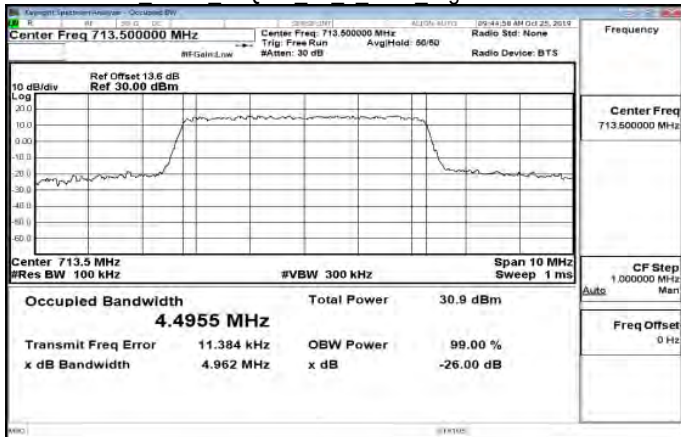
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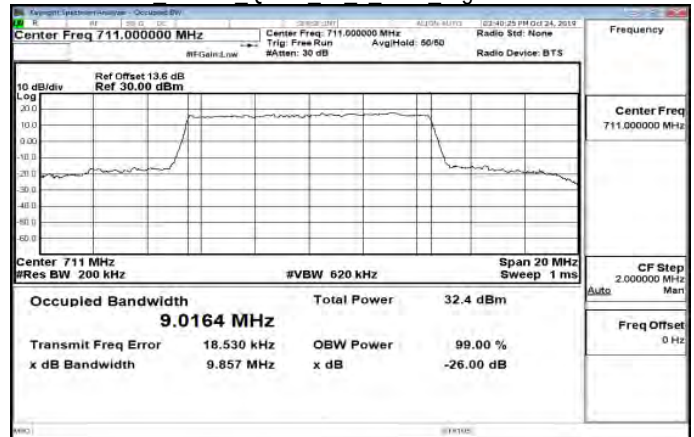
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Band12 5MHz 64QAM 25 0 Main HighCH23155-713.5



Band12 10MHz QPSK 50 0 Main HighCH23130-711

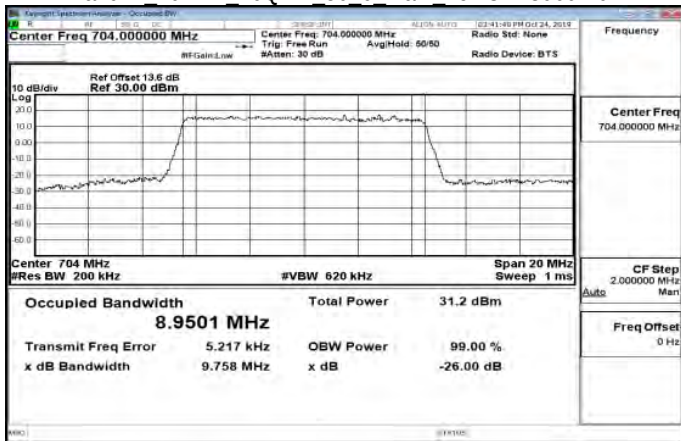


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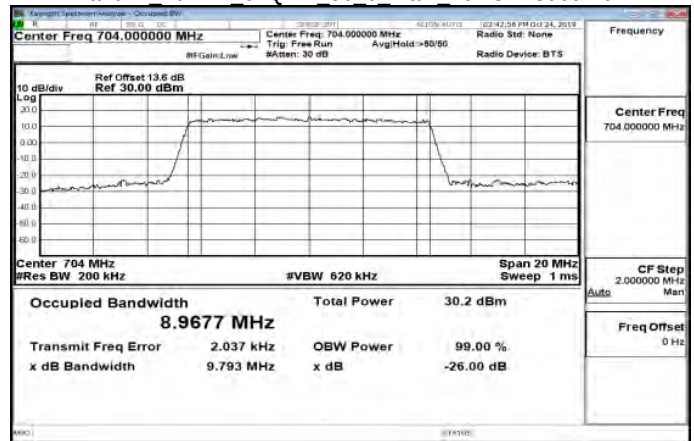
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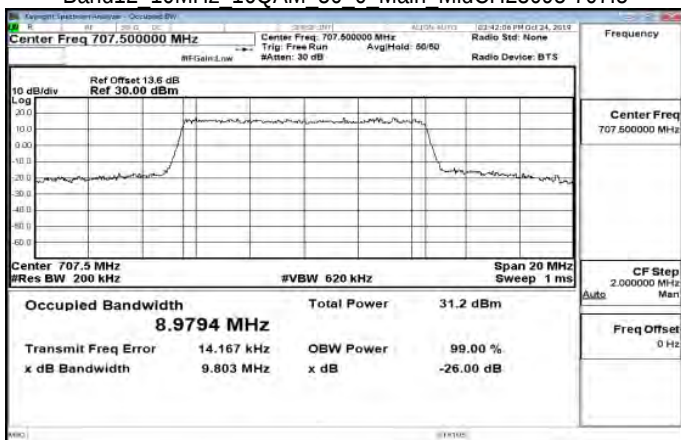
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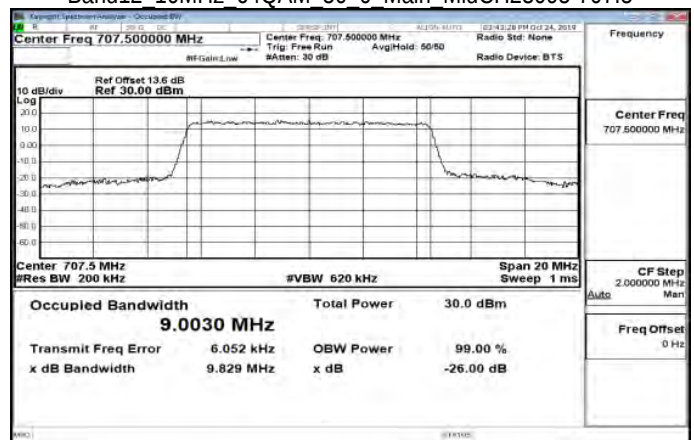
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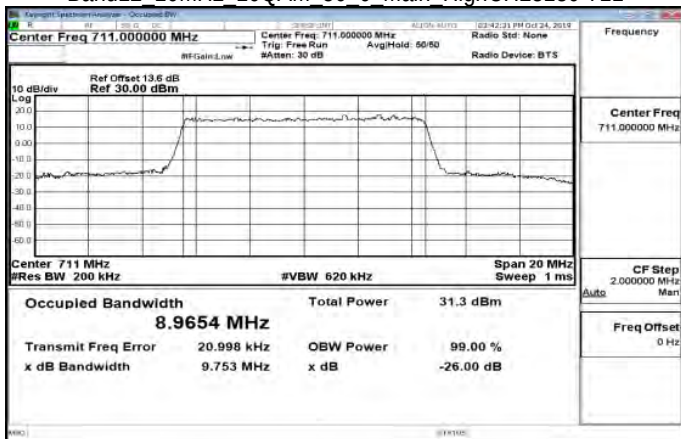
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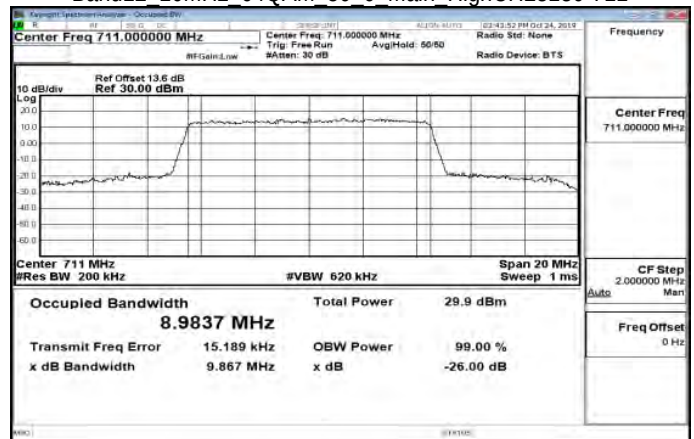
Band12 10MHz 64QAM 50 0 Main MidCH23095-707.5



Band12 10MHz 16QAM 50 0 Main HighCH23130-711



Band12 10MHz 64QAM 50 0 Main HighCH23130-711

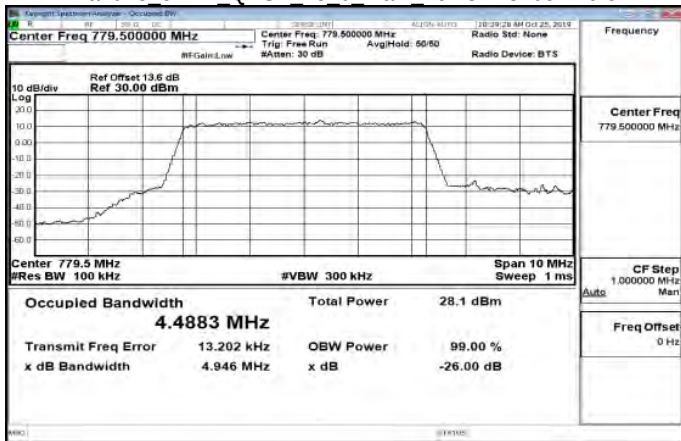


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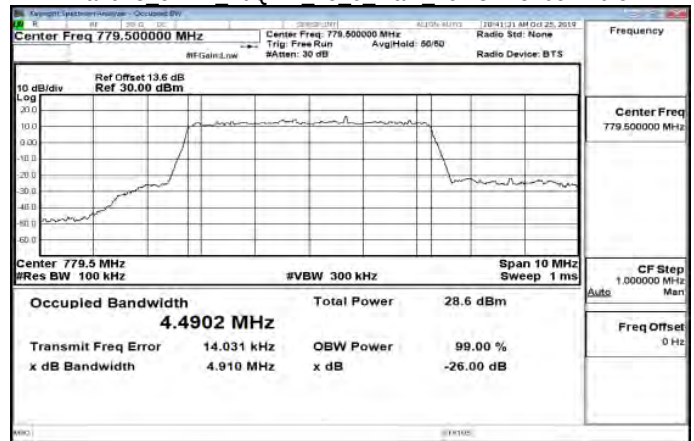
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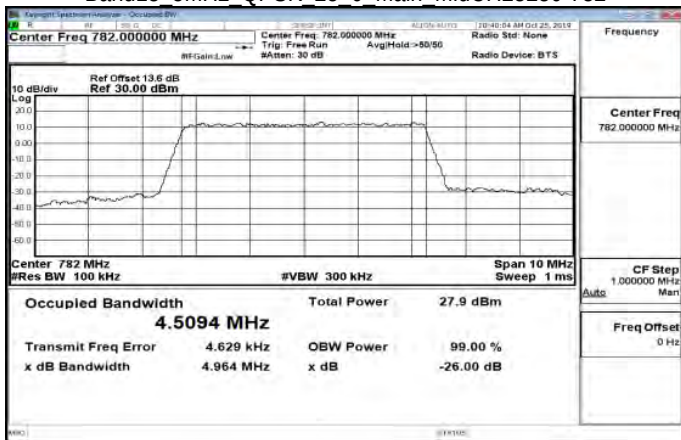
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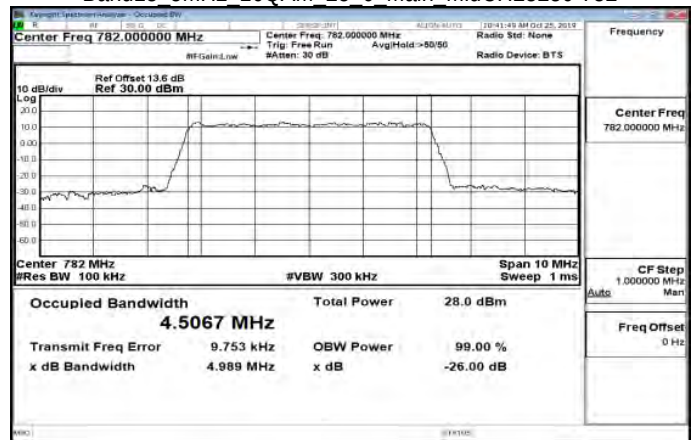
Band13 5MHz 16QAM 25 0 Main LowCH23205-779.5



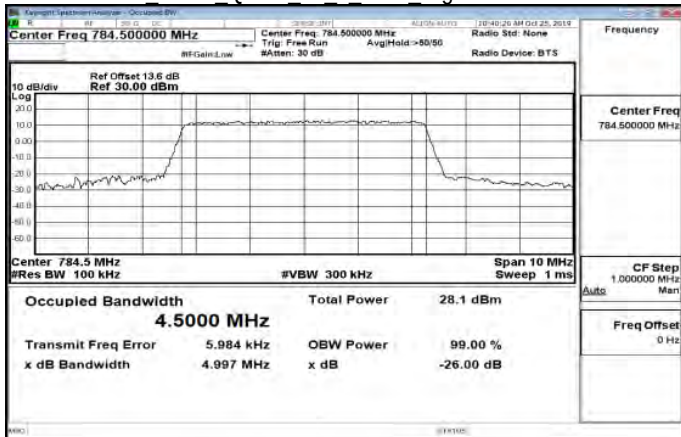
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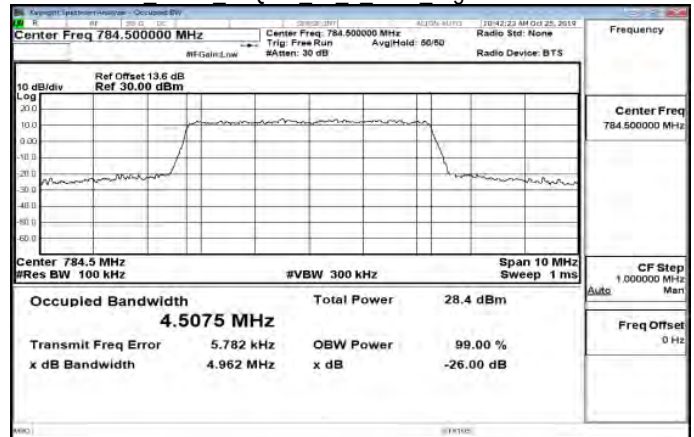
Band13 5MHz 16QAM 25 0 Main MidCH23230-782



Band13 5MHz QPSK 25 0 Main HighCH23255-784.5



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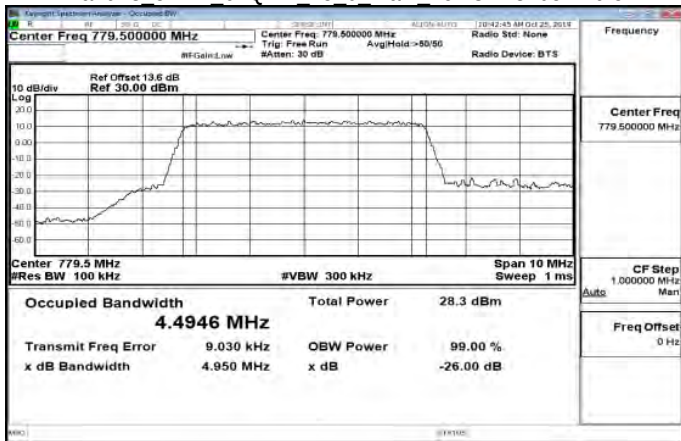


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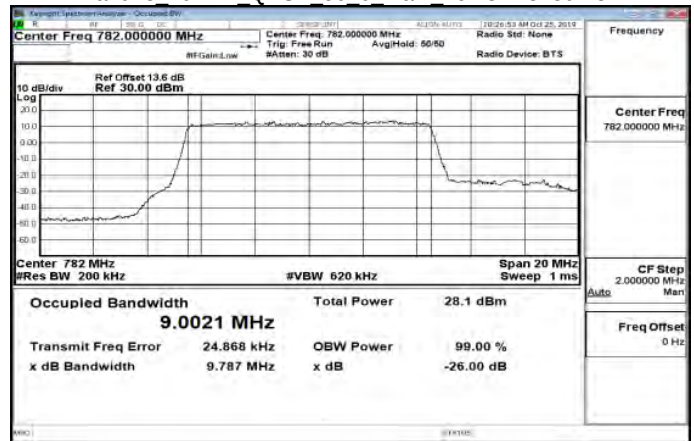
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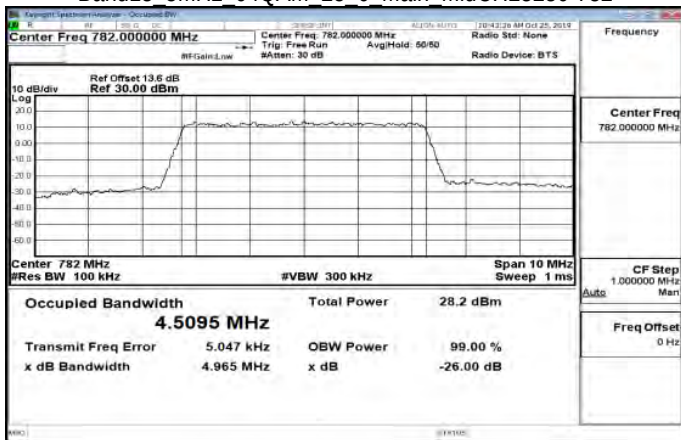
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Band13 10MHz QPSK 50 0 Main LowCH23230-782



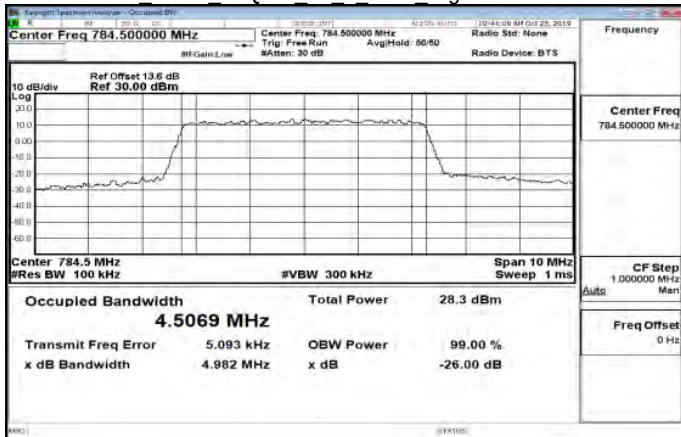
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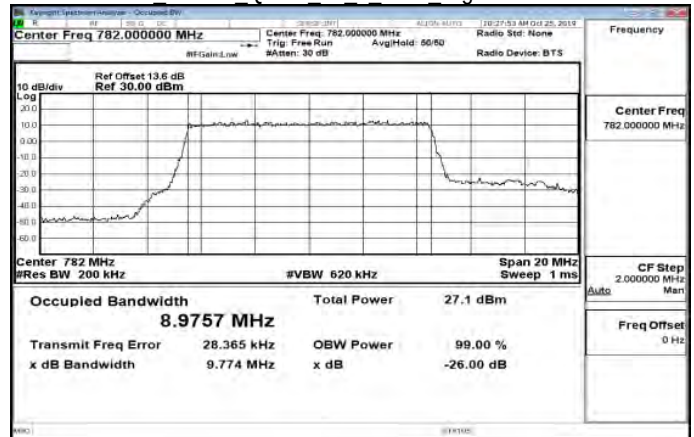
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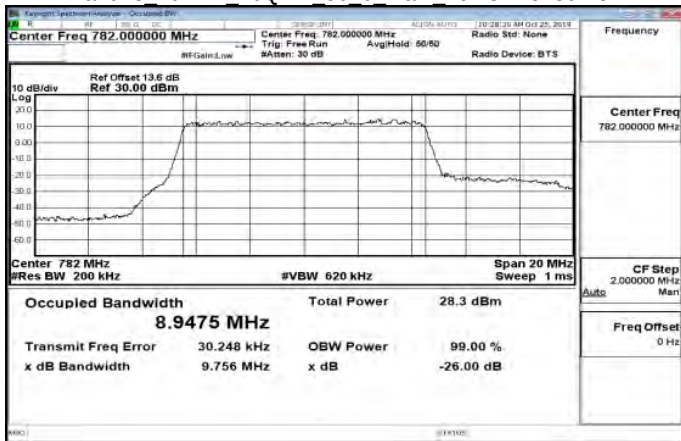


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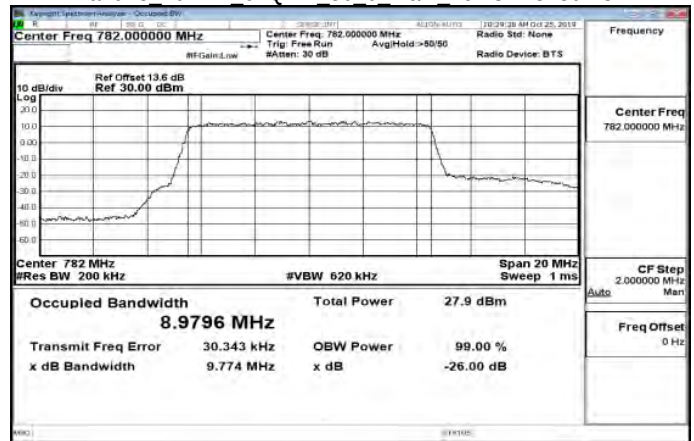
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Band13 10MHz 16QAM 50 0 Main LowCH23230-782



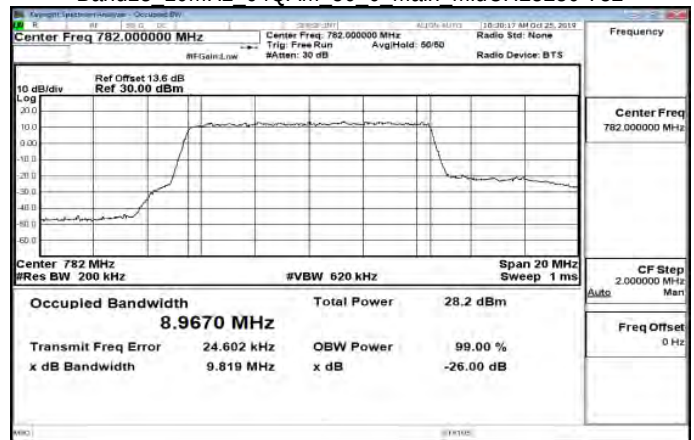
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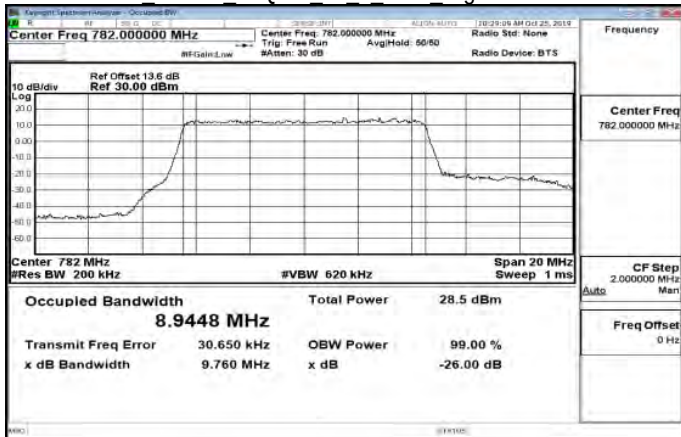
Band13 10MHz 16QAM 50 0 Main MidCH23230-782



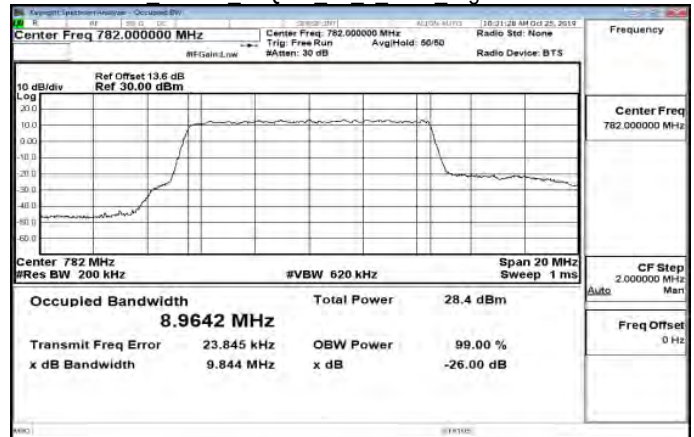
Band13 10MHz 64QAM 50 0 Main MidCH23230-782



Band13 10MHz 16QAM 50 0 Main HighCH23230-782



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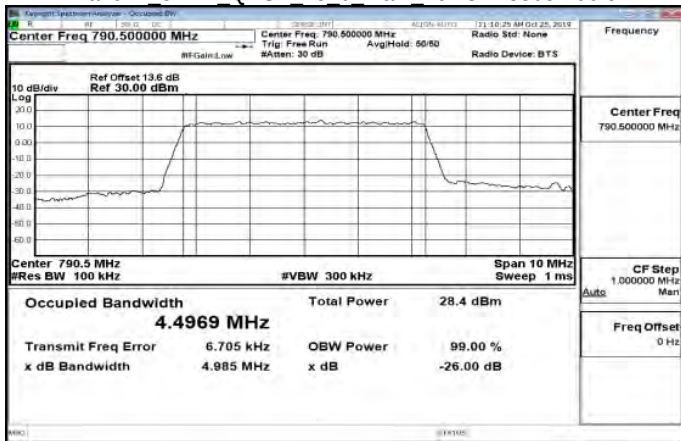


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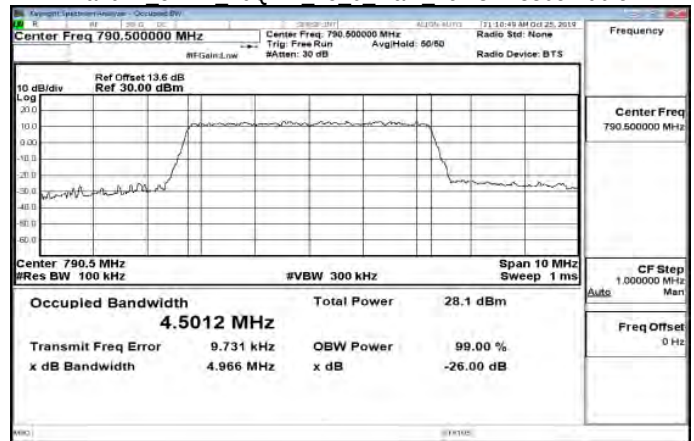
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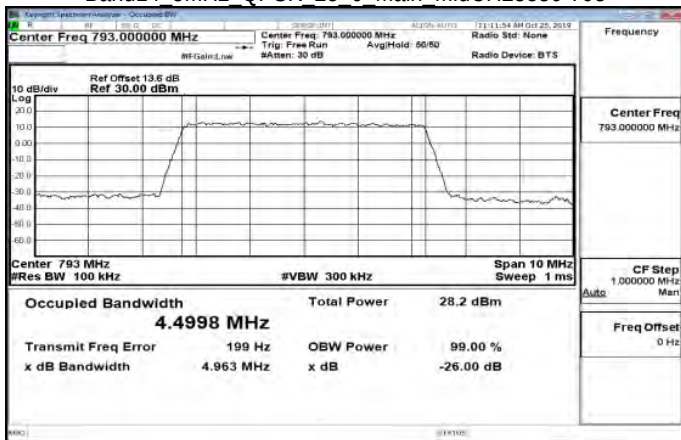
Band14 5MHz QPSK 25 0 Main LowCH23305-790.5



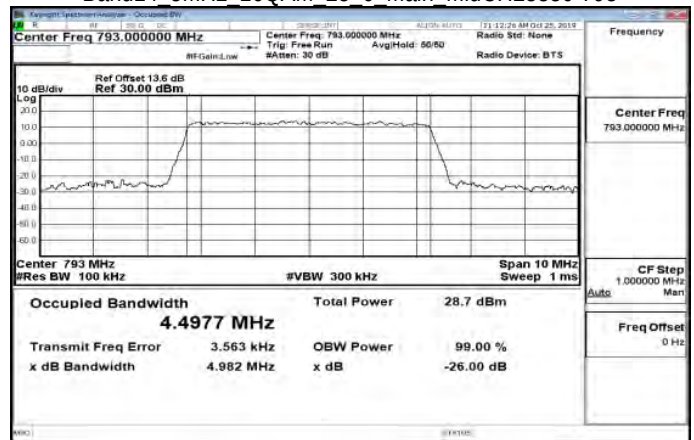
Band14 5MHz 16QAM 25 0 Main LowCH23305-790.5



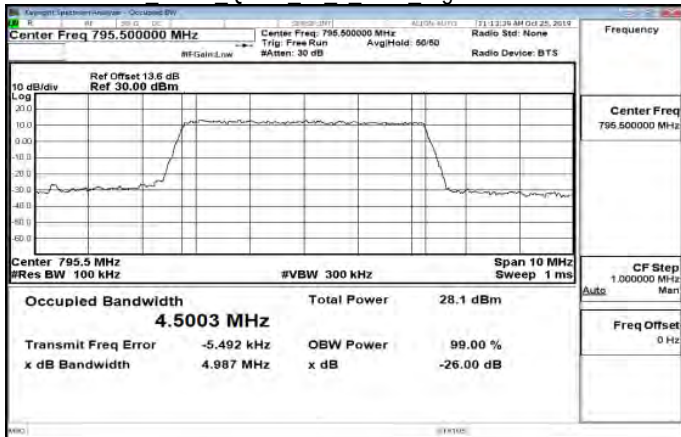
Band14 5MHz QPSK 25 0 Main MidCH23330-793



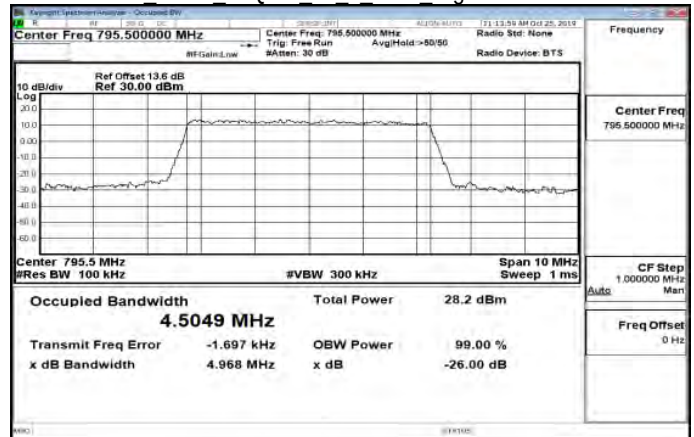
Band14 5MHz 16QAM 25 0 Main MidCH23330-793



Band14 5MHz QPSK 25 0 Main HighCH23355-795.5



Band14 5MHz 16QAM 25 0 Main HighCH23355-795.5

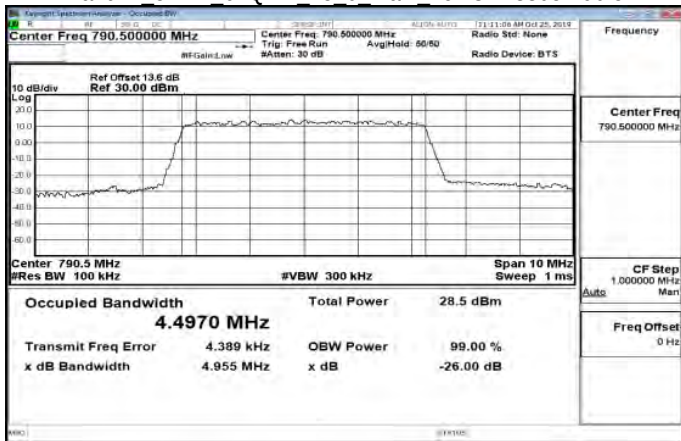


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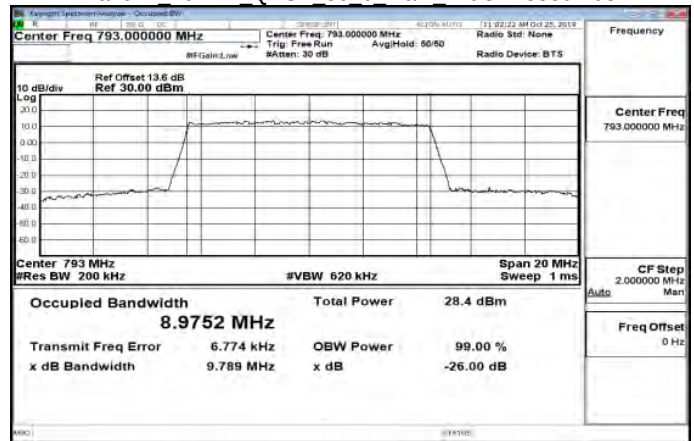
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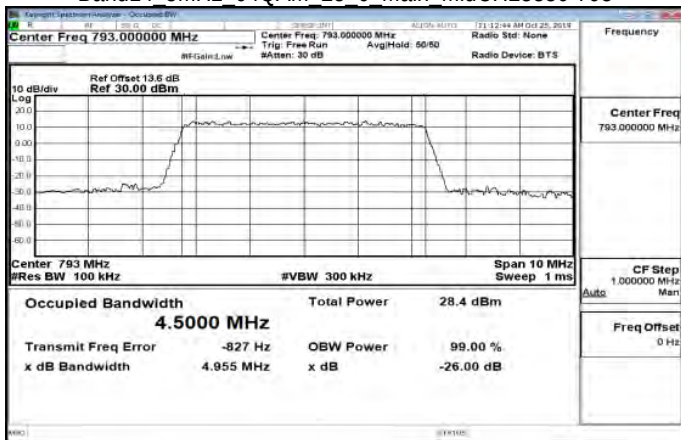
Band14 5MHz 64QAM 25 0 Main LowCH23305-790.5



Band14 10MHz QPSK 50 0 Main MidCH23330-793



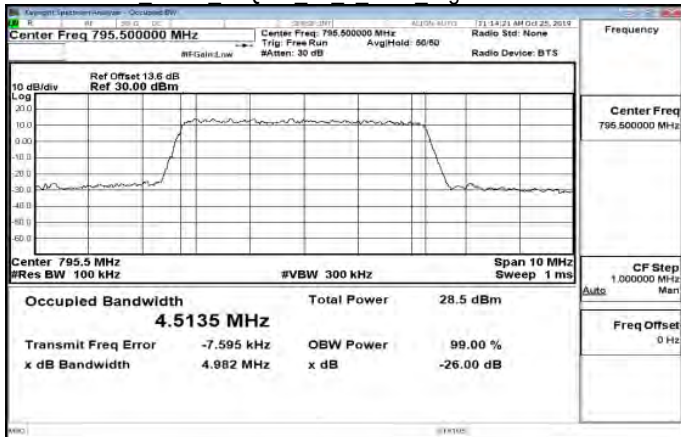
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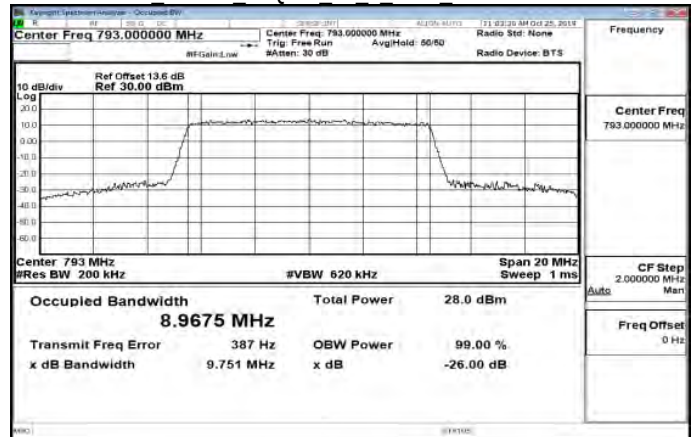
Band14 10MHz 16QAM 50 0 Main MidCH23330-793



Band14 5MHz 64QAM 25 0 Main HighCH23355-795.5



Band14 10MHz 64QAM 50 0 Main MidCH23330-793



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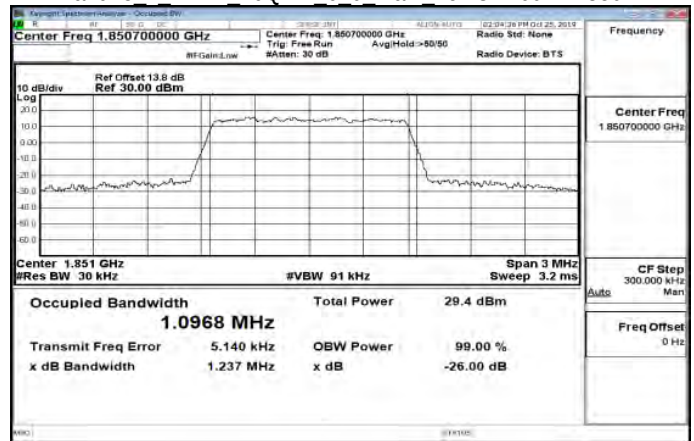
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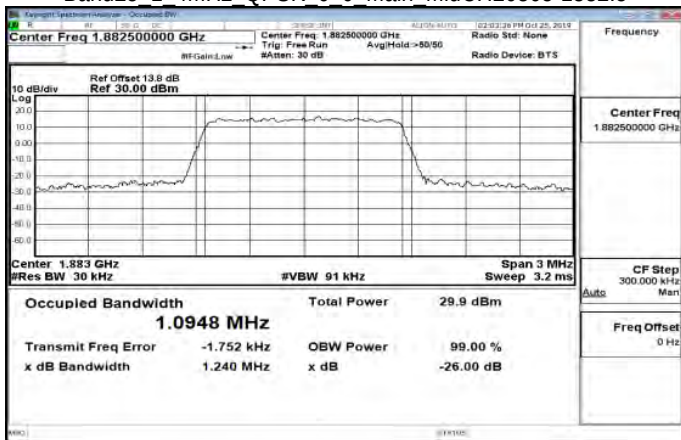
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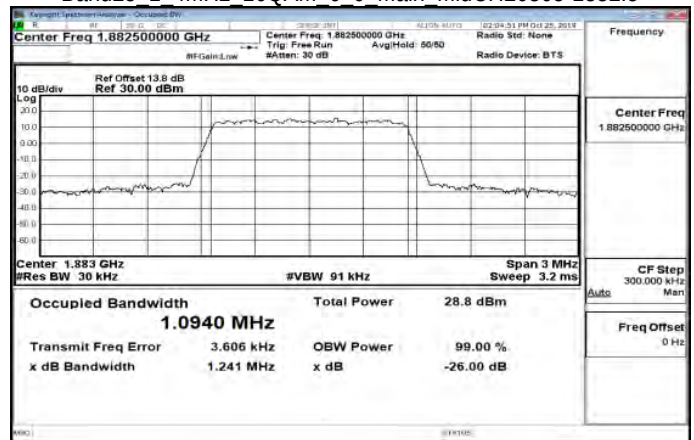
Band25 1 4MHz 16QAM 6 0 Main LowCH26047-1850.7



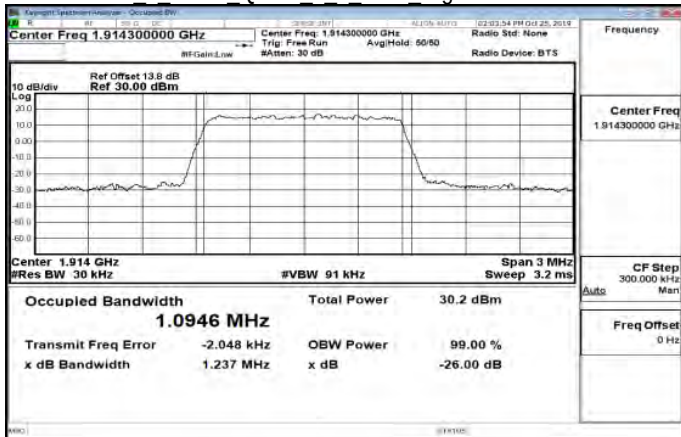
Band25 1 4MHz QPSK 6 0 Main MidCH26365-1882.5



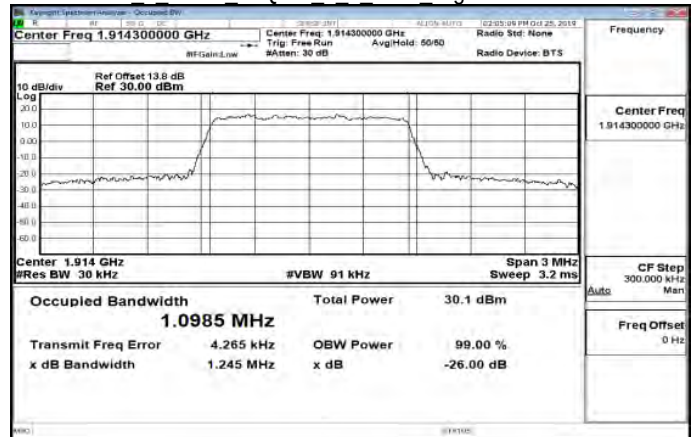
Band25 1 4MHz 16QAM 6 0 Main MidCH26365-1882.5



Band25 1 4MHz QPSK 6 0 Main HighCH26683-1914.3



Band25 1 4MHz 16QAM 6 0 Main HighCH26683-1914.3



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