

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**  
**INTENTIONAL RADIATOR CERTIFICATION TO**  
**FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART**  
**B, C & SUBPART L and PART 90S REQUIREMENT**

OF

**Applicant:** HP Inc.  
3390 East Harmony Road Fort Collins, Colorado 80528 United States

**Product Name:** Notebook PC

**Brand Name:** HP

**Model No.:** TPN-Q198

**Model Difference:** N/A

**FCC ID:** B94TPQ198WCWT

**Report Number:** E2/2017/80072

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

**Issue Date:** Dec. 01, 2017

**Date of Test:** Aug. 29, 2017 ~ Nov. 18, 2017

**Date of EUT Received:** Jul. 11, 2017

**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.

**Prepared By:**

*Allen Tsai*

**Allen Tsai / Engineer**

**Approved By:**

*Jim Chang*

**Jim Chang / Asst. Manager**



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## Revision History

Report Number	Revision	Description	Issue Date
E2/2017/80072	Rev.00	Initial creation of document	Dec. 01, 2017

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## 1. GENERAL PRODUCT INFORMATION

### 1.1. Product Description

General:

Product Name:	Notebook PC	
Brand Name:	HP	
Model No.:	TPN-Q198	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
WLAN & BT Module:	Brand: Qualcomm, Model No: WCN3990	
LTE & GPS Module:	Brand: Qualcomm, Model No: WTR5975	
Power Supply:	11.55Vdc from Rechargeable Li-polymer Battery or 5 / 9 / 10 / 12 / 15 / 20Vdc from AC/DC Adapter	
	Battery:	Model No.: HSTNN-LB8D, Supplier: Chongqing C-Tech Technology Co., Ltd.
	Adapter:	1. Model No.: TPN-DA07, Supplier: DELTA ELECTRONICS (JIANGSU) LTD. 2. Model No.: TPN-LA06, Supplier: LITE-ON TECHNOLOGY (CHANGZHOU)CO., LTD.
IMEI:	357947080020895	

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**WCDMA / LTE: Cellular Phone Standards Frequency Range**

Operating Frequency (MHz)		
WCDMA / HSPA+ Band II	1852.4	- 1907.6
WCDMA/HSPA+ Band IV	1712.4	- 1752.6
WCDMA / HSPA+ Band V	826.4	- 846.6

LTE Band	BW (MHz)	Operation Frequency (MHz)		LTE Band	BW (MHz)	Operation Frequency (MHz)	
2	1.4	1850.7	- 1909.3	25	1.4	1850.7	- 1914.3
	3	1851.5	- 1908.5		3	1851.5	- 1913.5
	5	1852.5	- 1907.5		5	1852.5	- 1912.5
	10	1855.0	- 1905.0		10	1855.0	- 1910.0
	15	1857.5	- 1902.5		15	1857.5	- 1907.5
	20	1860.0	- 1900.0		20	1860.0	- 1905.0
4	1.4	1710.7	- 1754.3	26	1.4	824.7	- 848.3
	3	1711.5	- 1753.5		3	825.5	- 847.5
	5	1712.5	- 1752.5		5	826.5	- 846.5
	10	1715.0	- 1780.0		10	829.0	- 844.0
	15	1717.5	- 1747.5		15	831.5	- 841.5
	20	1720.0	- 1745.0		26 Part90	1.4	814.7
5	1.4	824.7	- 848.3	3		815.5	- 822.5
	3	825.5	- 847.5	5		816.5	- 821.5
	5	826.5	- 846.5	10	819.0	-	
	10	829.0	- 844.0	30	5	2307.5	- 2312.5
12	1.4	699.7	- 715.3		10	2310.0	-
	3	700.5	- 714.5	13	5	706.5	- 713.5
	5	701.5	- 713.5				
	10	704.0	- 711.0				
17	5	706.5	- 713.5				
	10	709.0	- 711.0				

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
13	5	779.5	- 784.5		15	1717.5	- 1772.5
	10	782	-		20	1720.0	- 1770.0

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Antenna Designation

Vendor	Type	Main / Aux	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
INPAQ Corporation	Couple	Main	DQ600200303/DQ600200402 (WA-F-LTE8LTE6-02-003/ WA-F-LTE8LTE6-02-004)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	-0.76
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	0
				WCDMA / HSPA Band V	826.4 ~ 846.6	-0.92
				LTE Band 2	1850 ~ 1910	-0.76
				LTE Band 4	1710 ~ 1755	0.02
				LTE Band 5	824 ~ 849	-0.66
				LTE Band 12	699 ~ 716	-1.09
				LTE Band 13	777 ~ 787	-1.63
				LTE Band 17	704 ~ 716	-1.09
				LTE Band 25	1850 ~ 1915	-0.76
				LTE Band 26	824 ~ 849	-0.66
				LTE Band 26 (Part 90S)	814 ~ 824	N/A
				LTE Band 30	2305 ~ 2315	N/A
				LTE Band 41	2496 ~ 2690	-1.43
	LTE Band 66	1710 ~ 1780	0.02			
	Couple	Aux	DQ6LB020013/DQ6LB020014 (WA-F-LTE8LBG1LB-02-003 /WA-F-LTE8LBG1LB-02-004)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	-3.13
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	N/A
				WCDMA / HSPA Band V	826.4 ~ 846.6	N/A
				LTE Band 2	1850 ~ 1910	-3.13
				LTE Band 4	1710 ~ 1755	N/A
				LTE Band 5	824 ~ 849	N/A
				LTE Band 12	699 ~ 716	N/A
				LTE Band 13	777 ~ 787	-3.16
				LTE Band 17	704 ~ 716	N/A
LTE Band 25				1850 ~ 1915	-3.13	
LTE Band 26	824 ~ 849	N/A				
LTE Band 26 (Part 90S)	814 ~ 824	-4.42				
LTE Band 30	2305 ~ 2315	-3.13				
LTE Band 41	2496 ~ 2690	N/A				
LTE Band 66	1710 ~ 1780	N/A				

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

	ERP / EIRP (dBm)		(W)	Type of Emission
WCDMA Band II	19.45	EIRP	0.088	4M12F9W
HSDPA Band II	19.19	EIRP	0.083	4M13F9W
HSUPA Band II	19.11	EIRP	0.081	4M12F9W
WCDMA Band IV	17.39	EIRP	0.055	4M12F9W
HSDPA Band IV	17.65	EIRP	0.058	4M13F9W
HSUPA Band IV	17.45	EIRP	0.056	4M13F9W
WCDMA Band V	22.25	ERP	0.168	4M14F9W
HSDPA Band V	17.59	ERP	0.057	4M14F9W
HSUPA Band V	14.24	ERP	0.027	4M12F9W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	23.50	EIRP	0.224	1M09G7D
	1.4	16QAM	23.56	EIRP	0.227	1M09D7W
	1.4	64QAM	17.50	EIRP	0.056	1M09D7W
	3	QPSK	23.67	EIRP	0.233	2M70G7D
	3	16QAM	<b>23.71</b>	EIRP	<b>0.235</b>	2M70D7W
	3	64QAM	17.78	EIRP	0.060	2M71D7W
	5	QPSK	23.30	EIRP	0.214	4M50G7D
	5	16QAM	23.43	EIRP	0.220	4M50D7W
	5	64QAM	17.85	EIRP	0.061	4M50D7W
	10	QPSK	23.36	EIRP	0.217	9M00G7D
	10	16QAM	23.44	EIRP	0.221	8M96D7W
	10	64QAM	17.22	EIRP	0.053	8M99D7W
	15	QPSK	23.39	EIRP	0.218	13M5G7D
	15	16QAM	23.36	EIRP	0.217	13M5D7W
	15	64QAM	21.92	EIRP	0.156	13M5D7W
	20	QPSK	23.46	EIRP	0.222	17M9G7D
	20	16QAM	23.58	EIRP	0.228	<b>18M0D7W</b>
	20	64QAM	21.40	EIRP	0.138	17M9D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	20.63	EIRP	0.116	1M11G7D
	1.4	16QAM	20.66	EIRP	0.116	1M11D7W
	1.4	64QAM	21.33	EIRP	0.136	1M12D7W
	3	QPSK	20.75	EIRP	0.119	2M73G7D
	3	16QAM	20.59	EIRP	0.115	2M72D7W
	3	64QAM	14.57	EIRP	0.029	2M75D7W
	5	QPSK	20.91	EIRP	0.123	4M54G7D
	5	16QAM	20.52	EIRP	0.113	4M54D7W
	5	64QAM	14.56	EIRP	0.029	4M55D7W
	10	QPSK	<b>21.76</b>	EIRP	<b>0.150</b>	9M04G7D
	10	16QAM	21.53	EIRP	0.142	9M01D7W
	10	64QAM	14.29	EIRP	0.027	9M03D7W
	15	QPSK	21.55	EIRP	0.143	13M5G7D
	15	16QAM	21.36	EIRP	0.137	13M6D7W
	15	64QAM	14.22	EIRP	0.026	13M6D7W
	20	QPSK	2.58	EIRP	0.002	18M1G7D
	20	16QAM	21.68	EIRP	0.147	18M1D7W
	20	64QAM	14.64	EIRP	0.029	18M2D7W

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission	
5	1.4	QPSK	27.54	ERP	0.568	1M09G7D
	1.4	16QAM	<b>27.83</b>	ERP	<b>0.607</b>	1M09D7W
	1.4	64QAM	26.64	ERP	0.461	1M09D7W
	3	QPSK	27.13	ERP	0.516	2M70G7D
	3	16QAM	26.99	ERP	0.500	2M70D7W
	3	64QAM	25.93	ERP	0.392	2M71D7W
	5	QPSK	26.58	ERP	0.455	4M50G7D
	5	16QAM	27.31	ERP	0.538	4M50D7W
	5	64QAM	27.56	ERP	0.570	4M50D7W
	10	QPSK	26.91	ERP	0.491	<b>9M01G7D</b>
	10	16QAM	25.90	ERP	0.389	8M97D7W
	10	64QAM	25.47	ERP	0.352	9M00D7W
13	5	QPSK	27.53	ERP	0.566	4M50G7D
	5	16QAM	<b>27.66</b>	ERP	<b>0.583</b>	4M50D7W
	5	64QAM	19.88	ERP	0.097	4M51D7W
	10	QPSK	27.41	ERP	0.551	<b>8M97G7D</b>
	10	16QAM	27.38	ERP	0.547	8M95D7W
	10	64QAM	19.36	ERP	0.086	<b>8M97D7W</b>
25	1.4	QPSK	17.53	EIRP	0.057	1M09G7D
	1.4	16QAM	17.27	EIRP	0.053	1M10D7W
	1.4	64QAM	16.67	EIRP	0.046	1M09D7W
	3	QPSK	16.50	EIRP	0.045	2M70G7D
	3	16QAM	16.75	EIRP	0.047	2M70D7W
	3	64QAM	16.21	EIRP	0.042	2M71D7W
	5	QPSK	16.16	ERP	0.041	4M50G7D
	5	16QAM	16.14	ERP	0.041	4M51D7W
	5	64QAM	16.14	ERP	0.041	4M50D7W
	10	QPSK	<b>21.25</b>	ERP	<b>0.133</b>	9M01G7D
	10	16QAM	21.06	ERP	0.128	8M96D7W
	10	64QAM	21.13	ERP	0.130	8M99D7W
	15	QPSK	20.75	ERP	0.119	13M5G7D
	15	16QAM	20.91	ERP	0.123	13M5D7W
	15	64QAM	20.96	ERP	0.125	13M5D7W
	20	QPSK	17.80	ERP	0.060	17M9G7D
	20	16QAM	17.90	ERP	0.062	17M9D7W
	20	64QAM	17.87	ERP	0.061	<b>17M9D7W</b>

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission		
12	1.4	QPSK	22.72	ERP	0.187	1M09G7D	
	1.4	16QAM	22.90	ERP	0.195	1M10D7W	
	1.4	64QAM	20.72	ERP	0.118	1M09D7W	
	3	QPSK	22.74	ERP	0.188	2M70G7D	
	3	16QAM	22.73	ERP	0.187	2M77D7W	
	3	64QAM	20.65	ERP	0.116	2M71D7W	
	5	QPSK	<b>22.93</b>	ERP	<b>0.196</b>	4M50G7D	
	5	16QAM	22.67	ERP	0.185	4M50D7W	
	5	64QAM	20.61	ERP	0.115	4M50D7W	
	10	QPSK	22.43	ERP	0.175	8M98G7D	
	10	16QAM	22.70	ERP	0.186	8M96D7W	
	10	64QAM	20.48	ERP	0.112	<b>8M99D7W</b>	
	17	5	QPSK	19.15	ERP	0.082	4M50G7D
		5	16QAM	<b>19.19</b>	ERP	<b>0.083</b>	4M51D7W
5		64QAM	19.06	ERP	0.081	4M51D7W	
10		QPSK	16.51	ERP	0.045	<b>9M01G7D</b>	
10		16QAM	17.46	ERP	0.056	8M96D7W	
10		64QAM	17.50	ERP	0.056	8M98D7W	
26		1.4	QPSK	<b>27.55</b>	ERP	<b>0.569</b>	1M10G7D
	1.4	16QAM	27.17	ERP	0.521	1M10D7W	
	1.4	64QAM	22.50	ERP	0.178	1M09D7W	
	3	QPSK	26.03	ERP	0.401	2M70G7D	
	3	16QAM	25.84	ERP	0.384	2M70D7W	
	3	64QAM	18.92	ERP	0.078	2M71D7W	
	5	QPSK	26.16	ERP	0.413	4M50G7D	
	5	16QAM	26.15	ERP	0.412	4M49D7W	
	5	64QAM	19.18	ERP	0.083	4M50D7W	
	10	QPSK	26.56	ERP	0.453	8M99G7D	
	10	16QAM	25.42	ERP	0.348	8M97D7W	
	10	64QAM	19.18	ERP	0.083	8M99D7W	
	15	QPSK	26.73	ERP	0.471	13M5G7D	
	15	16QAM	26.72	ERP	0.470	13M5D7W	
	15	64QAM	19.28	ERP	0.085	<b>13M5D7W</b>	

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
26 Part90	1.4	QPSK	23.24	ERP	0.211	1M09G7D
	1.4	16QAM	22.41	ERP	0.174	1M10D7W
	1.4	64QAM	22.25	ERP	0.168	1M09D7W
	3	QPSK	23.39	ERP	0.218	2M70G7D
	3	16QAM	22.59	ERP	0.182	2M70D7W
	3	64QAM	22.42	ERP	0.175	2M71D7W
	5	QPSK	<b>23.51</b>	ERP	<b>0.224</b>	4M50G7D
	5	16QAM	21.77	ERP	0.150	4M50D7W
	5	64QAM	21.48	ERP	0.141	4M50D7W
	10	QPSK	23.35	ERP	0.216	8M97G7D
	10	16QAM	22.51	ERP	0.178	8M97D7W
	10	64QAM	22.42	ERP	0.175	<b>8M99D7W</b>

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
30	5	QPSK	22.32	EIRP	0.171	4M50G7D
	5	16QAM	23.23	EIRP	0.210	4M51D7W
	5	64QAM	23.05	EIRP	0.202	4M50D7W
	10	QPSK	<b>23.55</b>	EIRP	<b>0.226</b>	<b>9M01G7D</b>
	10	16QAM	23.49	EIRP	0.223	8M96D7W
	10	64QAM	23.38	EIRP	0.218	8M98D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
41	5	QPSK	22.83	EIRP	0.192	4M51G7D
	5	16QAM	22.78	EIRP	0.190	4M51D7W
	5	64QAM	22.86	EIRP	0.193	4M50D7W
	10	QPSK	23.22	EIRP	0.210	9M00G7D
	10	16QAM	23.19	EIRP	0.208	8M97D7W
	10	64QAM	23.22	EIRP	0.210	8M99D7W
	15	QPSK	23.15	EIRP	0.207	13M5G7D
	15	16QAM	23.12	EIRP	0.205	13M5D7W
	15	64QAM	23.05	EIRP	0.202	13M4D7W
	20	QPSK	23.31	EIRP	0.214	<b>17M9G7D</b>
	20	16QAM	23.30	EIRP	0.214	17M9D7W
	20	64QAM	<b>23.39</b>	EIRP	<b>0.218</b>	17M9D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
66	1.4	QPSK	23.81	EIRP	0.240	1M10G7D
	1.4	16QAM	22.78	EIRP	0.190	1M10D7W
	1.4	64QAM	22.62	EIRP	0.183	1M10D7W
	3	QPSK	23.77	EIRP	0.238	2M70G7D
	3	16QAM	22.81	EIRP	0.191	2M71D7W
	3	64QAM	22.70	EIRP	0.186	2M71D7W
	5	QPSK	23.68	EIRP	0.233	4M50G7D
	5	16QAM	23.10	EIRP	0.204	4M51D7W
	5	64QAM	22.66	EIRP	0.185	4M50D7W
	10	QPSK	23.89	EIRP	0.245	9M01G7D
	10	16QAM	22.94	EIRP	0.197	8M99D7W
	10	64QAM	22.66	EIRP	0.185	9M00D7W
	15	QPSK	24.66	EIRP	0.292	13M5G7D
	15	16QAM	23.41	EIRP	0.219	13M5D7W
	15	64QAM	22.86	EIRP	0.193	13M5D7W
	20	QPSK	<b>24.71</b>	EIRP	<b>0.296</b>	18M1G7D
	20	16QAM	23.82	EIRP	0.241	<b>18M1D7W</b>
	20	64QAM	23.57	EIRP	0.228	18M1D7W

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
66	1.4	QPSK	23.81	EIRP	0.240	1M10G7D
66	1.4	16QAM	22.78	EIRP	0.190	1M10D7W
66	1.4	64QAM	22.62	EIRP	0.183	1M10D7W
66	3	QPSK	23.77	EIRP	0.238	2M70G7D
66	3	16QAM	22.81	EIRP	0.191	2M71D7W
66	3	64QAM	22.70	EIRP	0.186	2M71D7W
66	5	QPSK	23.68	EIRP	0.233	4M50G7D
66	5	16QAM	23.10	EIRP	0.204	4M51D7W
66	5	64QAM	22.66	EIRP	0.185	4M50D7W
66	10	QPSK	23.89	EIRP	0.245	9M01G7D
66	10	16QAM	22.94	EIRP	0.197	8M99D7W
66	10	64QAM	22.66	EIRP	0.185	9M00D7W
66	15	QPSK	24.66	EIRP	0.292	13M5G7D
66	15	16QAM	23.41	EIRP	0.219	13M5D7W
66	15	64QAM	22.86	EIRP	0.193	13M5D7W
66	20	QPSK	<b>24.71</b>	EIRP	<b>0.296</b>	18M1G7D
66	20	16QAM	23.82	EIRP	0.241	<b>18M1D7W</b>
66	20	64QAM	23.57	EIRP	0.228	18M1D7W

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## 1.2. Test Methodology of Applied Standards

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

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System

KDB941225 of the Output power Procedure of (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.

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

## 1.3. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 735305

## 1.4. Special Accessories

No special accessories were used during testing.

## 1.5. 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 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

#### 2.3.2 Radiated Emissions (ERP/EIRP)

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 example with cable loss 0.5 dB and 10 dB attenuator and 5.4 dB for splitter.

$$\text{Offset} = \text{RF cable loss (dB)} + \text{attenuation factor(dB)} = 0.5 + 15.4 = 15.9(\text{dB})$$

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

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	11.55	0.785
WCDMA B4		0.785
WCDMA B5		0.776
LTE Band 2		0.748
LTE Band 4		0.875
LTE Band 5		0.715
LTE Band 12		0.699
LTE Band 13		0.734
LTE Band 17		0.692
LTE Band 25		0.862
LTE Band 26		0.712
LTE Band 26 (Part 90S)		0.701
LTE Band 30		0.854
LTE Band 38		0.864
LTE Band 41		0.865
LTE Band 66		0.876

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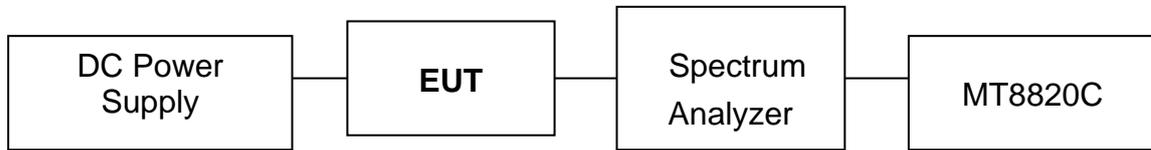
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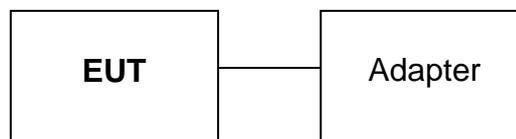
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## 2.6. Configuration of Tested System

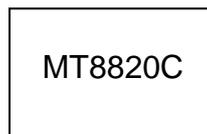
**Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)**



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



Remote Side



**Table 2-1 Equipment Used in**

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
2.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded

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### 3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(5) §24.232(c) §27.50(a)(3) §27.50(c)(10) §27.50(d)(4) §90.635	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6) §90.691	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.213	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, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	ERP/EIRP	RADIATED EMISSION
WCDMA/HSPA Band II	E2-plan	E2-plan
WCDMA/HSPA Band V	E2-plan	E2-plan
LTE Band 2	E2-plan	E2-plan
LTE Band 4	E2-plan	E2-plan
LTE Band 5	E2-plan	E2-plan
LTE Band 12	E2-plan	E2-plan
LTE Band 13	E2-plan	E2-plan
LTE Band 17	E2-plan	E2-plan
LTE Band 25	E2-plan	E2-plan
LTE Band 26	E2-plan	E2-plan
LTE Band 26 (Part 90S)	E2-plan	E2-plan
LTE Band 30	E2-plan	E2-plan
LTE Bnad 38	E2-plan	E2-plan
LTE Band 41	E2-plan	E2-plan
LTE Band 66	E2-plan	E2-plan

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WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	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, 64QAM	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	64QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	64QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	64QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	64QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	64QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	64QAM	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
CONDCUETED 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 EMIS- SION	18625 to 19175	18625, 18900, 19175	3MHz	QPSK	1 RB, 14 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, 64QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20000 to 20350	20175	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM, 64QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	64QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	64QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	64QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	64QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	64QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	64QAM	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
CONDCUDED 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	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 49 RB Offest

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**LTE Band 5 MODE**

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	64QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	64QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	64QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	64QAM	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
CONDCUDED 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	1.4MHz	16QAM	1 RB, 0 RB Offest

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**LTE Band 12 MODE**

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM	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, 64QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	64QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	64QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	64QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	64QAM	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	5MHz	QPSK	1 RB, 24 RB Offest

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**LTE Band 13 MODE**

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23230	23230	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23230	23230	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	64QAM	Full RB
	23230	23230	10MHz	64QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23230	23230	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUETED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS- SION	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	1 RB/ 0 RB Offest

**LTE Band 17 MODE**

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23780 to 23800	23790	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	64QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	64QAM	Full RB
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23780 to 23800	23780, 23800	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUETED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB, 0 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS- SION	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	1 RB/ 0 RB Offest

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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, 64QAM	1 RB/ 0,5 RB Offest
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	Full RB
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	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
CONDCUDED 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	10MHz	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	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM, 64QAM	1 RB/ 0,5 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
FREQUENCY STABILITY	26865 to 26965	26915	15MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	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
CONDCUETED 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	26805 to 27025	26805, 26915, 27025	1.4MHz	QPSK,	1 RB, 0 RB Offest

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## LTE Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	26740	26740	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	26697 to 26783	26740	1.4MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM, 64QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM, 64QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM, 64QAM	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 Offest Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26740	26740	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 0 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offest

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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, 64QAM	1 RB/ 0,24 RB Offest
	27710	27710	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	27710	27710	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM, 64QAM	Full RB
	27710	27710	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	27685 to 27735	27685, 27710, 27735	5MHz	64QAM	Full RB
	27710	27710	10MHz	64QAM	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
CONDCUDED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB, 0 RB Offest
	27710	27710	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	27685 to 27735	27685, 27710, 27735	10MHz	QPSK	1 RB/ 0 RB Offest

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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, 64QAM	1 RB/ 0,24 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	39675 to 41565	39675, 40620, 41565	5MHz	64QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	64QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	64QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	64QAM	Full RB
BAND EDGE	39675 to 41565	39675, 41565	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	39700 to 41540	39700, 41540	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	39725 to 41515	39725, 41515	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	39750 to 41490	39750, 41490	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDEDTED EMIS-SION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB, 0 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB, 0 RB Offest
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB, 0 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB, 0 RB Offest
EMISSION MASK	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset
RADIATED EMISSION	39750 to 41490	39750, 40620, 41490	20MHz	64QAM	1 RB, 99 RB Offest

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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, 64QAM	1 RB/ 0,5 RB Offest
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	131979 to 132665	131979, 132322, 132665	1.4MHz	64QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	64QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	64QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	64QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	64QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	64QAM	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
CONDCUDED 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	64QAM	1 RB, 99 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 : <b>Vertical</b> )	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 : <b>Horizontal</b> )	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

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

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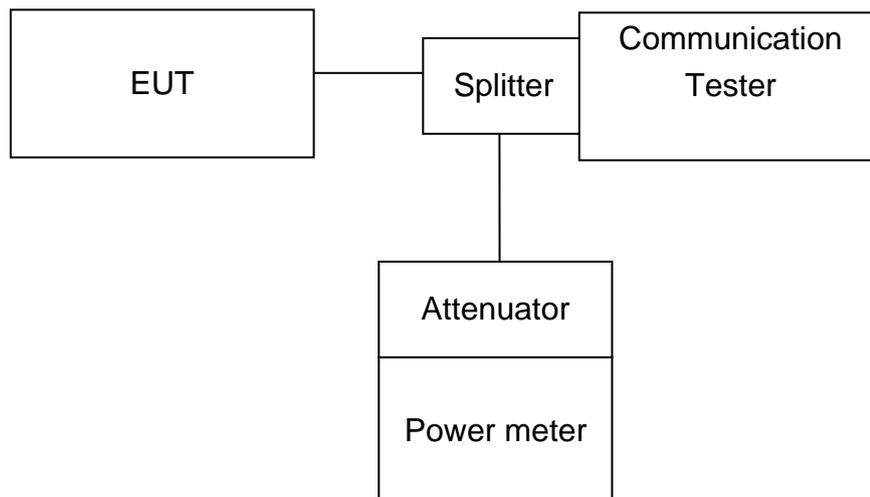
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## 6. RF CONDUCTED OUTPUT POWER MEASUREMENT

### 6.1. Standard Applicable

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

### 6.2. Test Set-up



**Note:** Measurement setup for testing on Antenna connector

### 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

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## 6.4. 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	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

## 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 (+1.7/-3.7). RMC 12.2kps is used for this testing.

#### Results:

EUT Mode	Freq. (MHz)	CH	Avg. Power (dBm)
WCDMA Band II	1852.4	9262	23.24
	1880.0	9400	23.71
	1907.6	9538	23.06
WCDMA Band IV	1712.4	1312	22.26
	1732.6	1413	22.83
	1752.6	1513	23.69
WCDMA Band V	826.4	4132	23.82
	836.6	4183	23.7
	846.6	4233	24.15

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**LTE Result:**

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 18607	CH (Mid) 18900	CH (High) 19193	CH (Low) 18607	CH (Mid) 18900	CH (High) 19193	CH (Low) 18607	CH (Mid) 18900	CH (High) 19193
1.4	1	0	23.20	23.16	23.61	22.43	22.37	22.78	22.30	22.16	22.70
	1	5	23.09	23.16	23.59	22.64	22.48	<b>23.14</b>	22.28	22.49	<b>22.94</b>
	3	2	23.30	23.26	<b>23.70</b>	22.36	22.26	22.81	22.28	22.16	22.71
	6	0	22.23	22.19	22.64	21.48	21.27	21.73	21.28	21.09	21.60

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 18615	CH (Mid) 18900	CH (High) 19185	CH (Low) 18615	CH (Mid) 18900	CH (High) 19185	CH (Low) 18615	CH (Mid) 18900	CH (High) 19185
3	1	0	23.46	23.47	23.04	22.69	<b>22.75</b>	22.37	22.66	22.64	22.39
	1	14	23.43	23.38	<b>23.84</b>	22.63	22.65	22.12	21.59	<b>22.76</b>	22.02
	8	4	22.50	22.49	22.03	21.57	21.56	21.02	21.59	21.36	21.02
	15	0	22.49	22.43	22.04	21.55	21.49	21.04	21.45	21.41	21.01

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 18625	CH (Mid) 18900	CH (High) 19175	CH (Low) 18625	CH (Mid) 18900	CH (High) 19175	CH (Low) 18625	CH (Mid) 18900	CH (High) 19175
5	1	0	23.51	23.50	23.44	<b>22.78</b>	22.77	22.74	22.65	22.56	22.66
	1	24	23.47	23.43	<b>23.80</b>	22.75	22.69	22.15	21.45	<b>22.70</b>	22.15
	12	6	22.53	22.50	22.21	21.53	21.52	21.30	21.45	21.22	21.20
	25	0	22.50	22.47	22.12	21.53	21.51	21.21	21.33	21.33	21.08

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LTE Band 2_Uplink frequency band : 1850 to 1910 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 18650	CH (Mid) 18900	CH (High) 19150	CH (Low) 18650	CH (Mid) 18900	CH (High) 19150	CH (Low) 18650	CH (Mid) 18900	CH (High) 19150
10	1	0	23.75	23.74	23.73	23.04	23.03	22.94	22.31	22.22	22.26
	1	49	23.74	23.62	23.72	22.99	22.88	22.21	21.30	22.29	22.11
	25	12	22.55	22.51	22.71	21.58	21.56	21.70	21.30	21.06	21.40
	50	0	22.54	22.54	22.45	21.56	21.56	21.61	21.16	21.18	21.28

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 18675	CH (Mid) 18900	CH (High) 19125	CH (Low) 18675	CH (Mid) 18900	CH (High) 19125	CH (Low) 18675	CH (Mid) 18900	CH (High) 19125
15	1	0	23.60	23.62	23.80	22.88	22.88	23.05	22.15	22.07	22.37
	1	74	23.51	23.39	23.66	22.80	22.65	22.22	21.29	22.06	22.12
	36	19	22.56	22.55	22.74	21.57	21.59	21.75	21.29	21.09	21.05
	75	0	22.53	22.54	22.63	21.56	21.54	21.75	21.16	21.16	21.02

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 18700	CH (Mid) 18900	CH (High) 19100	CH (Low) 18700	CH (Mid) 18900	CH (High) 19100	CH (Low) 18700	CH (Mid) 18900	CH (High) 19100
20	1	0	23.82	23.72	23.79	23.08	23.00	23.00	22.35	22.19	22.32
	1	99	23.63	23.56	23.81	22.94	22.81	22.26	21.02	22.22	22.06
	50	25	22.62	22.57	22.76	21.70	21.59	21.77	21.02	21.09	21.07
	100	0	22.56	22.58	22.79	21.59	21.55	21.79	21.19	21.17	21.06

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 19957	CH (Mid) 20175	CH (High) 20393	CH (Low) 19957	CH (Mid) 20175	CH (High) 20393	CH (Low) 19957	CH (Mid) 20175	CH (High) 20393
1.4	1	0	21.80	23.61	23.62	21.12	22.64	22.89	22.39	22.13	22.21
	1	5	21.88	23.35	<b>23.79</b>	21.30	22.63	<b>23.28</b>	22.31	22.04	<b>22.48</b>
	3	2	21.83	23.47	23.76	20.99	22.73	22.70	22.31	22.13	22.00
	6	0	20.73	22.58	22.55	20.03	21.73	21.78	21.23	21.05	21.05

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 19965	CH (Mid) 20175	CH (High) 20385	CH (Low) 19965	CH (Mid) 20175	CH (High) 20385	CH (Low) 19965	CH (Mid) 20175	CH (High) 20385
3	1	0	22.35	23.98	23.23	21.58	<b>23.06</b>	22.68	22.15	<b>22.25</b>	22.00
	1	14	22.73	23.34	<b>24.02</b>	21.81	22.67	22.85	21.03	22.08	22.05
	8	4	22.42	23.05	23.69	21.71	22.05	22.05	21.03	21.15	21.35
	15	0	22.37	23.00	22.83	21.58	22.03	21.88	21.18	21.25	21.15

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 19975	CH (Mid) 20175	CH (High) 20375	CH (Low) 19975	CH (Mid) 20175	CH (High) 20375	CH (Low) 19975	CH (Mid) 20175	CH (High) 20375
5	1	0	21.98	<b>23.86</b>	23.06	21.41	22.46	22.51	<b>22.68</b>	22.65	22.13
	1	24	22.84	22.88	23.76	22.13	22.63	<b>23.05</b>	21.02	22.04	22.25
	12	6	22.45	22.82	22.77	21.70	21.84	21.79	21.02	21.94	21.09
	25	0	22.43	22.80	22.68	21.71	21.89	21.72	21.11	21.11	21.09

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 20000	CH (Mid) 20175	CH (High) 20350	CH (Low) 20000	CH (Mid) 20175	CH (High) 20350	CH (Low) 20000	CH (Mid) 20175	CH (High) 20350
10	1	0	22.11	<b>24.20</b>	22.26	21.21	22.88	21.21	22.48	22.07	<b>22.53</b>
	1	49	23.43	22.37	23.52	<b>23.21</b>	21.86	23.02	21.23	22.27	22.22
	25	12	22.89	22.82	22.81	21.91	21.81	21.88	21.23	21.10	21.18
	50	0	22.89	22.79	22.75	21.92	21.87	21.84	21.12	21.09	21.11

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 20025	CH (Mid) 20175	CH (High) 20325	CH (Low) 20025	CH (Mid) 20175	CH (High) 20325	CH (Low) 20025	CH (Mid) 20175	CH (High) 20325
15	1	0	22.16	<b>23.76</b>	22.03	21.44	<b>23.23</b>	21.31	22.11	<b>22.42</b>	22.03
	1	74	23.68	22.12	23.59	22.63	21.56	22.71	21.29	22.17	22.01
	36	19	22.94	22.86	22.63	21.97	21.90	21.84	21.29	21.00	21.14
	75	0	22.83	22.84	22.86	22.05	21.91	21.75	21.25	21.13	21.02

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm) (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 20050	CH (Mid) 20175	CH (High) 20300	CH (Low) 20050	CH (Mid) 20175	CH (High) 20300	CH (Low) 20050	CH (Mid) 20175	CH (High) 20300
20	1	0	22.26	<b>23.91</b>	22.67	21.62	<b>23.38</b>	21.99	22.19	<b>22.57</b>	22.31
	1	99	23.88	22.01	23.73	22.57	21.67	22.80	21.24	22.08	22.00
	50	25	22.92	22.90	22.46	21.92	21.97	21.71	21.24	21.07	21.01
	100	0	23.11	23.02	22.74	23.00	21.98	21.92	22.20	21.20	21.19

LTE Band 5_Uplink frequency band : 824 to 849 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 20407	CH (Mid) 20525	CH (High) 20643	CH (Low) 20407	CH (Mid) 20525	CH (High) 20643	CH (Low) 20407	CH (Mid) 20525	CH (High) 20643
1.4	1	0	23.00	23.08	23.06	22.26	<b>22.35</b>	22.18	22.29	22.30	22.26
	1	5	23.01	23.08	23.04	22.31	22.32	22.20	22.14	<b>22.49</b>	22.16
	3	2	23.09	<b>23.16</b>	23.05	22.06	22.13	22.11	22.14	22.19	22.17
	6	0	22.03	22.10	22.02	21.04	21.11	21.12	21.00	21.09	21.15

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LTE Band 5_Uplink frequency band : 824 to 849 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			20415	20525	20635	20415	20525	20635	20415	20525	20635
3	1	0	23.04	23.29	<b>23.32</b>	22.26	<b>22.49</b>	22.42	22.24	22.39	22.45
	1	14	23.18	23.20	23.02	22.35	<b>22.49</b>	22.40	21.11	<b>22.61</b>	22.31
	8	4	22.10	22.16	22.28	21.08	21.25	21.17	21.11	21.06	21.18
	15	0	22.04	22.21	22.19	21.10	21.08	21.18	21.01	21.01	21.16

LTE Band 5_Uplink frequency band : 824 to 849 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			20425	20525	20625	20425	20525	20625	20425	20525	20625
5	1	0	23.17	23.30	23.35	22.39	22.56	<b>22.68</b>	22.36	22.45	<b>22.70</b>
	1	24	23.18	23.18	<b>23.37</b>	22.43	22.54	22.60	21.31	22.65	22.50
	12	6	22.30	22.16	22.35	21.29	21.36	21.40	21.31	21.16	21.40
	25	0	22.24	22.33	22.32	21.28	21.30	21.35	21.18	21.22	21.32

LTE Band 5_Uplink frequency band : 824 to 849 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			20450	20525	20600	20450	20525	20600	20450	20525	20600
10	1	0	23.22	23.39	<b>23.40</b>	22.46	22.72	<b>22.75</b>	22.33	<b>22.51</b>	22.07
	1	49	<b>23.40</b>	23.38	23.31	22.66	22.65	22.58	21.25	22.06	22.38
	25	12	22.29	22.52	22.59	21.33	21.52	21.51	21.25	21.22	21.41
	50	0	22.26	22.44	22.52	21.27	21.49	21.52	21.07	21.31	21.39

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LTE Band 12_Uplink frequency band : 699 to 716 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 23017	CH (Mid) 23095	CH (High) 23173	CH (Low) 23017	CH (Mid) 23095	CH (High) 23173	CH (Low) 23017	CH (Mid) 23095	CH (High) 23173
1.4	1	0	23.04	23.01	23.02	22.31	22.33	22.27	22.24	22.18	22.25
	1	5	23.04	23.05	23.01	<b>22.35</b>	22.33	22.22	22.15	<b>22.40</b>	22.08
	3	2	<b>23.14</b>	23.12	23.12	22.17	22.14	22.11	22.15	22.09	22.07
	6	0	22.10	22.14	22.03	21.17	21.15	21.15	21.03	21.03	21.08

LTE Band 12_Uplink frequency band : 699 to 716 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 23025	CH (Mid) 23095	CH (High) 23165	CH (Low) 23025	CH (Mid) 23095	CH (High) 23165	CH (Low) 23025	CH (Mid) 23095	CH (High) 23165
3	1	0	23.03	23.03	<b>23.04</b>	22.24	22.28	22.23	22.23	22.19	22.27
	1	14	23.01	23.01	23.01	<b>22.30</b>	<b>22.30</b>	22.22	21.19	<b>22.43</b>	22.14
	8	4	22.09	22.09	22.11	21.15	21.18	21.15	21.19	21.00	21.17
	15	0	22.08	22.08	22.06	21.09	21.10	21.11	21.01	21.04	21.10

LTE Band 12_Uplink frequency band : 699 to 716 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 23035	CH (Mid) 23095	CH (High) 23155	CH (Low) 23035	CH (Mid) 23095	CH (High) 23155	CH (Low) 23035	CH (Mid) 23095	CH (High) 23155
5	1	0	23.08	23.08	23.00	22.33	22.37	22.26	22.35	22.31	22.33
	1	24	<b>23.14</b>	23.08	23.06	<b>22.43</b>	22.34	22.38	21.25	<b>22.50</b>	22.33
	12	6	22.12	22.15	22.19	21.18	21.15	21.18	21.25	21.00	21.23
	25	0	22.12	22.13	22.19	21.13	21.16	21.17	21.08	21.13	21.19

LTE Band 12_Uplink frequency band : 699 to 716 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 23060	CH (Mid) 23095	CH (High) 23130	CH (Low) 23060	CH (Mid) 23095	CH (High) 23130	CH (Low) 23060	CH (Mid) 23095	CH (High) 23130
10	1	0	23.03	23.00	23.02	22.31	22.28	22.35	22.33	22.22	22.42
	1	49	23.06	23.07	<b>23.09</b>	<b>22.38</b>	22.36	22.33	21.28	<b>22.52</b>	22.28
	25	12	22.22	22.16	22.11	21.21	21.15	21.14	21.28	21.00	21.19
	50	0	22.20	22.16	22.09	21.20	21.16	21.10	21.15	21.13	21.12

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LTE Band 13_Uplink frequency band : 777 to 787 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 23205	CH (Mid) 23230	CH (High) 23255	CH (Low) 23205	CH (Mid) 23230	CH (High) 23255	CH (Low) 23205	CH (Mid) 23230	CH (High) 23255
5	1	0	23.41	<b>23.44</b>	23.42	22.63	<b>22.79</b>	22.74	22.32	22.40	<b>22.48</b>
	1	24	23.39	23.35	23.34	22.66	22.65	22.62	21.18	<b>22.48</b>	22.24
	12	6	22.42	22.48	22.41	21.44	21.48	21.44	21.18	21.00	21.16
	25	0	22.36	22.42	22.41	21.38	21.45	21.40	21.00	21.09	21.09

LTE Band 13_Uplink frequency band : 777 to 787 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Mid) 23230			CH (Mid) 23230			CH (Mid) 23230		
10	1	0	<b>23.49</b>			<b>22.61</b>			22.28		
	1	49	23.31			<b>22.61</b>			<b>22.33</b>		
	25	12	22.47			21.47			21.17		
	50	0	22.46			21.47			21.21		

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LTE Band 17_Uplink frequency band : 704 to 716 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 23755	CH (Mid) 23790	CH (High) 23825	CH (Low) 23755	CH (Mid) 23790	CH (High) 23825	CH (Low) 23755	CH (Mid) 23790	CH (High) 23825
5	1	0	23.68	23.65	23.43	22.66	22.54	23.08	22.15	22.05	<b>22.40</b>
	1	24	23.58	<b>23.72</b>	23.53	22.98	22.70	<b>23.10</b>	21.08	22.11	22.30
	12	6	22.73	22.66	22.74	21.76	21.68	21.73	21.08	21.00	21.03
	25	0	22.71	22.64	22.72	21.76	21.69	21.67	21.18	21.13	21.16

LTE Band 17_Uplink frequency band : 704 to 716 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 23780	CH (Mid) 23790	CH (High) 23800	CH (Low) 23780	CH (Mid) 23790	CH (High) 23800	CH (Low) 23780	CH (Mid) 23790	CH (High) 23800
10	1	0	23.68	23.65	<b>23.80</b>	<b>23.21</b>	23.05	23.18	22.48	22.24	<b>22.50</b>
	1	49	23.78	23.67	23.75	22.75	22.48	22.88	21.02	22.09	22.08
	25	12	22.73	22.73	22.72	21.70	21.76	21.72	21.02	21.06	21.02
	50	0	22.67	22.68	22.64	21.67	21.62	21.76	21.07	21.04	21.03

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 26047	CH (Mid) 26365	CH (High) 26683	CH (Low) 26047	CH (Mid) 26365	CH (High) 26683	CH (Low) 26047	CH (Mid) 26365	CH (High) 26683
1.4	1	0	23.39	23.71	23.49	22.14	22.67	22.70	<b>22.66</b>	22.43	22.02
	1	5	23.32	23.71	23.24	22.50	22.62	<b>22.83</b>	22.14	22.03	22.03
	3	2	23.38	<b>23.89</b>	23.49	22.25	22.81	22.57	22.14	22.48	22.44
	6	0	22.26	22.83	22.56	21.33	21.83	21.83	21.10	21.05	21.10

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LTE Band 25_Uplink frequency band : 1850 to 1915 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			26055	26365	26675	26055	26365	26675	26055	26365	26675
3	1	0	23.32	<b>23.67</b>	23.50	<b>22.90</b>	22.74	22.76	22.17	<b>22.40</b>	22.08
	1	14	23.33	23.57	23.24	22.42	22.52	22.73	21.20	<b>22.40</b>	<b>22.40</b>
	8	4	22.36	22.61	22.69	21.41	21.57	21.80	21.20	21.14	21.10
	15	0	22.31	22.62	22.63	21.36	21.59	21.75	21.03	21.28	21.02

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			26065	26365	26665	26065	26365	26665	26065	26365	26665
5	1	0	23.31	<b>23.65</b>	23.24	22.61	<b>23.17</b>	22.60	22.36	22.36	22.40
	1	24	23.45	23.46	23.41	22.53	22.55	22.86	21.17	<b>22.44</b>	22.06
	12	6	22.37	22.62	22.63	21.37	21.65	21.62	21.17	21.23	21.40
	25	0	22.38	22.59	22.56	21.49	21.60	21.59	21.17	21.30	21.34

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			26090	26365	26640	26090	26365	26640	26090	26365	26640
10	1	0	23.58	23.79	<b>23.82</b>	22.58	22.92	<b>23.38</b>	22.29	22.11	<b>22.70</b>
	1	49	23.59	23.78	23.41	23.10	23.16	22.57	21.23	22.57	22.21
	25	12	22.51	22.61	22.34	21.47	21.71	21.39	21.23	21.25	21.13
	50	0	22.50	22.64	22.54	21.56	21.66	21.59	21.20	21.32	21.30

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			26115	26365	26615	26115	26365	26615	26115	26365	26615
15	1	0	23.56	<b>23.72</b>	23.24	23.04	23.20	<b>23.55</b>	22.31	22.39	<b>22.87</b>
	1	74	23.54	23.60	23.31	22.73	22.79	22.57	21.60	22.20	22.53
	36	19	22.54	22.77	22.34	21.52	21.74	21.33	21.60	21.60	21.39
	75	0	22.56	22.69	22.39	21.52	21.67	21.32	21.48	21.65	21.35

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LTE Band 25_Uplink frequency band : 1850 to 1915 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 26140	CH (Mid) 26365	CH (High) 26590	CH (Low) 26140	CH (Mid) 26365	CH (High) 26590	CH (Low) 26140	CH (Mid) 26365	CH (High) 26590
20	1	0	23.79	23.97	<b>23.99</b>	23.29	23.52	<b>23.66</b>	22.56	22.71	<b>22.98</b>
	1	99	23.47	23.77	23.05	22.52	23.15	22.19	21.26	22.56	22.29
	50	25	22.55	22.61	23.02	21.64	21.65	21.99	21.26	21.05	21.29
	100	0	22.53	22.69	23.23	21.52	21.68	22.16	21.02	21.20	21.43

LTE Band 26_Uplink frequency band : 824 to 849 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 26797	CH (Mid) 26915	CH (High) 27033	CH (Low) 26797	CH (Mid) 26915	CH (High) 27033	CH (Low) 26797	CH (Mid) 26915	CH (High) 27033
1.4	1	0	23.11	23.19	23.28	22.35	<b>22.79</b>	22.34	22.05	22.41	22.09
	1	5	23.05	23.26	23.18	22.28	22.54	22.36	22.38	22.38	<b>22.42</b>
	3	2	23.12	<b>23.33</b>	23.27	22.20	22.28	22.24	22.38	22.24	22.40
	6	0	22.06	22.26	22.31	21.37	21.37	21.30	21.00	21.02	21.00

LTE Band 26_Uplink frequency band : 824 to 849 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 26805	CH (Mid) 26915	CH (High) 27025	CH (Low) 26805	CH (Mid) 26915	CH (High) 27025	CH (Low) 26805	CH (Mid) 26915	CH (High) 27025
3	1	0	23.18	23.29	<b>23.46</b>	22.30	22.39	22.66	22.19	22.20	22.60
	1	14	23.26	23.29	23.29	22.65	<b>22.71</b>	22.37	21.32	<b>22.74</b>	22.19
	8	4	22.28	22.43	22.35	21.38	21.41	21.49	21.32	21.13	21.41
	15	0	22.19	22.28	22.36	21.28	21.46	21.37	21.10	21.30	21.26

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LTE Band 26_Uplink frequency band : 824 to 849 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 26815	CH (Mid) 26915	CH (High) 27015	CH (Low) 26815	CH (Mid) 26915	CH (High) 27015	CH (Low) 26815	CH (Mid) 26915	CH (High) 27015
5	1	0	23.13	23.37	23.38	22.40	22.38	22.56	22.21	22.11	22.42
	1	24	23.32	<b>23.42</b>	23.18	22.47	<b>22.61</b>	22.39	21.07	<b>22.56</b>	22.13
	12	6	22.26	22.36	22.34	21.21	21.49	21.47	21.07	21.13	21.31
	25	0	22.32	22.36	22.39	21.30	21.35	21.42	21.04	21.11	21.23

LTE Band 26_Uplink frequency band : 824 to 849 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 26840	CH (Mid) 26915	CH (High) 26990	CH (Low) 26840	CH (Mid) 26915	CH (High) 26990	CH (Low) 26840	CH (Mid) 26915	CH (High) 26990
10	1	0	23.23	<b>23.42</b>	23.19	22.40	22.86	22.47	22.14	22.05	22.26
	1	49	23.41	<b>23.42</b>	23.26	<b>22.87</b>	22.58	22.47	21.16	<b>22.46</b>	22.14
	25	12	22.31	22.36	22.49	21.37	21.43	21.42	21.16	21.00	21.19
	50	0	22.29	22.40	22.42	21.33	21.42	21.44	21.00	21.11	21.18

LTE Band 26_Uplink frequency band : 824 to 849 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 26865	CH (Mid) 26915	CH (High) 26965	CH (Low) 26865	CH (Mid) 26915	CH (High) 26965	CH (Low) 26865	CH (Mid) 26915	CH (High) 26965
15	1	0	23.14	<b>23.33</b>	23.32	22.46	22.48	22.84	22.22	22.16	22.16
	1	74	23.32	23.30	23.29	<b>22.86</b>	22.56	22.40	21.26	<b>22.46</b>	22.09
	36	19	22.47	22.37	22.44	21.45	21.41	21.48	21.26	21.00	21.27
	75	0	22.37	22.33	22.44	21.31	21.41	21.53	21.00	21.12	21.29

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LTE Band 26_Uplink frequency band : 814 to 824 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 26697	CH (Mid) 26740	CH (High) 26783	CH (Low) 26697	CH (Mid) 26740	CH (High) 26783	CH (Low) 26697	CH (Mid) 26740	CH (High) 26783
1.4	1	0	23.23	23.16	23.21	22.21	22.29	22.41	22.04	22.12	22.25
	1	5	23.19	23.11	23.10	22.36	22.16	22.18	22.25	22.06	22.11
	3	2	23.24	23.01	23.16	22.14	22.03	22.13	22.03	21.95	22.03
	6	0	22.26	22.26	22.12	21.20	21.24	21.24	21.02	21.16	21.14

LTE Band 26_Uplink frequency band : 814 to 824 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 26705	CH (Mid) 26740	CH (High) 26775	CH (Low) 26705	CH (Mid) 26740	CH (High) 26775	CH (Low) 26705	CH (Mid) 26740	CH (High) 26775
3	1	0	23.39	23.28	23.31	22.44	22.59	22.56	22.26	22.42	22.35
	1	14	23.27	23.24	23.18	22.33	22.40	22.51	22.19	22.23	22.32
	8	4	22.27	22.28	22.24	21.45	21.46	21.35	21.32	21.34	21.27
	15	0	22.28	22.29	22.28	21.34	21.35	21.30	21.20	21.19	21.12

LTE Band 26_Uplink frequency band : 814 to 824 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 26715	CH (Mid) 26740	CH (High) 26765	CH (Low) 26715	CH (Mid) 26740	CH (High) 26765	CH (Low) 26715	CH (Mid) 26740	CH (High) 26765
5	1	0	23.31	23.51	23.43	21.51	21.77	21.39	21.35	21.48	21.21
	1	24	23.36	23.29	23.39	21.43	21.45	21.35	21.33	21.41	21.14
	12	6	22.35	22.42	22.42	21.29	21.31	21.29	21.08	21.19	21.07
	25	0	22.30	22.34	22.31	21.37	21.31	21.43	21.22	21.18	21.32

LTE Band 26_Uplink frequency band : 814 to 824 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Mid) 26740			CH (Mid) 26740			CH (Mid) 26740		
10	1	0	23.29			22.51			22.37		
	1	49	23.35			22.51			22.42		
	25	12	22.39			21.48			21.35		
	50	0	22.34			21.37			21.28		

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LTE Band 30_Uplink frequency band : 2305 to 2315 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 27685	CH (Mid) 27710	CH (High) 27735	CH (Low) 27685	CH (Mid) 27710	CH (High) 27735	CH (Low) 27685	CH (Mid) 27710	CH (High) 27735
5	1	0	23.67	23.62	<b>23.71</b>	22.93	<b>22.96</b>	22.49	22.20	22.25	22.15
	1	24	23.62	23.55	23.35	22.66	22.86	22.68	21.09	<b>22.27</b>	22.05
	12	6	22.70	22.70	22.47	21.77	21.80	21.56	21.09	21.07	21.03
	25	0	22.71	22.70	22.50	21.77	21.69	21.56	21.14	21.08	21.00

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Mid) 27710			CH (Mid) 27710			CH (Mid) 27710		
10	1	0	<b>23.81</b>			<b>22.98</b>			<b>22.68</b>		
	1	49	23.64			22.65			22.34		
	25	12	22.70			21.83			21.13		
	50	0	22.75			21.74			21.08		

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 39675	CH (Mid) 40620	CH (High) 41565	CH (Low) 39675	CH (Mid) 40620	CH (High) 41565	CH (Low) 39675	CH (Mid) 40620	CH (High) 41565
5	1	0	<b>24.50</b>	24.49	23.54	<b>23.54</b>	23.47	22.43	22.81	22.79	22.23
	1	24	23.03	23.01	24.38	23.19	23.15	23.25	22.46	22.47	22.55
	12	6	23.51	23.94	22.50	22.22	22.90	22.97	21.49	<b>22.89</b>	22.16
	25	0	23.68	23.46	23.26	22.09	22.03	22.04	22.25	21.44	21.26

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LTE Band 41_Uplink frequency band : 2496 to 2690 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 39700	CH (Mid) 40620	CH (High) 41540	CH (Low) 39700	CH (Mid) 40620	CH (High) 41540	CH (Low) 39700	CH (Mid) 40620	CH (High) 41540
10	1	0	24.63	<b>24.67</b>	23.68	<b>23.69</b>	23.46	22.58	<b>22.96</b>	22.78	22.33
	1	49	23.09	23.00	24.53	23.27	23.15	23.46	22.54	22.47	22.76
	25	12	23.60	23.75	22.65	22.26	22.10	22.38	21.53	22.49	22.53
	50	0	23.96	23.41	23.40	23.00	22.23	22.34	22.44	21.64	21.56

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 39725	CH (Mid) 40620	CH (High) 41515	CH (Low) 39725	CH (Mid) 40620	CH (High) 41515	CH (Low) 39725	CH (Mid) 40620	CH (High) 41515
15	1	0	<b>24.79</b>	24.56	23.65	<b>23.75</b>	23.54	22.55	<b>23.02</b>	22.86	22.24
	1	74	23.00	23.04	24.74	23.41	23.20	23.51	22.68	22.52	22.81
	36	19	23.67	23.78	22.67	22.37	22.60	22.79	21.64	22.93	22.49
	75	0	23.83	23.47	23.49	22.66	22.18	22.27	22.40	21.59	21.49

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 39750	CH (Mid) 40620	CH (High) 41490	CH (Low) 39750	CH (Mid) 40620	CH (High) 41490	CH (Low) 39750	CH (Mid) 40620	CH (High) 41490
20	1	0	24.95	24.76	<b>24.99</b>	23.47	23.66	22.71	<b>23.37</b>	22.98	22.01
	1	99	23.01	23.00	24.91	22.93	23.35	<b>23.76</b>	22.83	22.67	23.06
	50	25	23.82	23.75	22.89	22.49	22.59	22.53	21.76	22.81	22.88
	100	0	23.74	23.68	23.64	22.69	22.50	22.62	22.76	21.91	21.84

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LTE Band 66_Uplink frequency band : 1709 to 1780 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			131979	132322	132665	131979	132322	132665	131979	132322	132665
1.4	1	0	23.34	23.01	23.45	22.58	22.37	22.68	22.49	22.20	22.00
	1	5	23.40	23.62	23.55	22.10	22.28	<b>22.78</b>	22.03	22.33	<b>22.62</b>
	3	2	23.49	23.16	<b>23.81</b>	22.07	22.37	22.76	22.03	22.11	22.06
	6	0	22.61	22.17	22.66	21.16	21.47	21.78	21.00	21.33	21.05

LTE Band 66_Uplink frequency band : 1709 to 1780 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			131987	132322	132657	131987	132322	132657	131987	132322	132657
3	1	0	23.63	23.71	23.25	22.02	22.62	22.41	22.09	22.61	22.53
	1	14	23.13	23.10	<b>23.77</b>	22.71	22.49	<b>22.81</b>	21.26	<b>22.70</b>	22.01
	8	4	22.02	22.20	22.69	21.14	21.48	21.73	21.26	21.38	21.03
	15	0	22.70	22.08	22.74	21.00	21.25	21.70	21.00	21.27	21.77

LTE Band 66_Uplink frequency band : 1709 to 1780 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			131997	132322	132647	131997	132322	132647	131997	132322	132647
5	1	0	23.47	23.66	<b>23.68</b>	22.06	22.72	22.70	22.08	<b>22.66</b>	22.02
	1	24	23.29	23.33	23.62	22.93	22.70	<b>23.10</b>	21.25	22.11	22.30
	12	6	22.07	22.15	22.50	21.18	21.30	21.56	21.25	21.15	21.61
	25	0	22.63	22.72	22.14	21.10	21.23	21.43	21.05	21.20	21.45

LTE Band 66_Uplink frequency band : 1709 to 1780 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			132022	132322	132622	132022	132322	132622	132022	132322	132622
10	1	0	23.58	23.67	23.42	22.66	22.84	22.41	22.13	22.03	<b>22.66</b>
	1	49	<b>23.89</b>	23.63	23.61	<b>22.94</b>	22.76	22.80	21.80	22.17	22.00
	25	12	22.34	22.03	22.24	21.55	21.29	21.15	21.80	21.32	21.38
	50	0	22.33	22.80	22.08	21.65	21.05	21.55	21.78	21.20	21.75

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LTE Band 66_Uplink frequency band : 1709 to 1780 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 132047	CH (Mid) 132322	CH (High) 132597	CH (Low) 132047	CH (Mid) 132322	CH (High) 132597	CH (Low) 132047	CH (Mid) 132322	CH (High) 132597
15	1	0	24.61	<b>24.66</b>	23.90	22.41	22.01	23.32	22.68	22.20	22.64
	1	74	23.79	23.27	23.62	<b>23.41</b>	22.45	23.00	21.22	<b>22.86</b>	22.20
	36	19	23.00	22.06	22.33	21.90	21.27	21.41	21.22	21.37	21.71
	75	0	22.94	22.96	22.19	21.93	21.08	21.48	21.13	21.30	21.75

LTE Band 66_Uplink frequency band : 1709 to 1780 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 132072	CH (Mid) 132322	CH (High) 132572	CH (Low) 132072	CH (Mid) 132322	CH (High) 132572	CH (Low) 132072	CH (Mid) 132322	CH (High) 132572
20	1	0	24.26	24.69	<b>24.71</b>	<b>23.82</b>	22.38	23.36	23.09	<b>23.57</b>	22.68
	1	99	23.94	23.60	23.70	22.82	23.11	23.14	21.46	22.52	22.34
	50	25	23.00	22.05	22.58	22.14	21.22	21.54	21.46	22.32	22.84
	100	0	22.94	22.12	22.46	21.81	21.14	21.73	21.01	22.36	21.00

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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:  $\beta$  values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (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.**

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**Results:**

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	22.67	22.56	21.96	20.3dBm – 25.7dBm	Pass
	2	22.66	22.54	21.93	20.3dBm – 25.7dBm	Pass
	3	22.2	22.08	21.46	19.8dBm – 25.7dBm	Pass
	4	22.21	22.09	21.47	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	20.98	21.62	22.39	20.3dBm – 25.7dBm	Pass
	2	20.82	21.34	22.35	20.3dBm – 25.7dBm	Pass
	3	20.41	20.92	21.91	19.8dBm – 25.7dBm	Pass
	4	20.48	20.98	21.9	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	22.74	22.69	23.08	20.3dBm – 25.7dBm	Pass
	2	22.7	22.63	23.07	20.3dBm – 25.7dBm	Pass
	3	22.19	22.12	22.57	19.8dBm – 25.7dBm	Pass
	4	22.21	22.11	22.58	19.8dBm – 25.7dBm	Pass

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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:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$	$\beta_{ec}$	$\beta_{ed}$	$\beta_{ed}$ (SF)	$\beta_{ed}$ (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	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

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

### Results:

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA II	1	22.01	<b>22.52</b>	21.9	18.8dBm – 25.7dBm	<b>Pass</b>
	2	21.3	21.94	21.28	16.8dBm – 25.7dBm	<b>Pass</b>
	3	22.13	22.53	21.93	17.8dBm – 25.7dBm	<b>Pass</b>
	4	21.8	22.41	21.76	16.8dBm – 25.7dBm	<b>Pass</b>
	5	22.16	22.55	21.94	18.8dBm – 25.7dBm	<b>Pass</b>

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1413	1513		
HSDPA IV	1	20.75	21.36	<b>22.36</b>	20.3dBm – 25.7dBm	<b>Pass</b>
	2	19.99	20.72	21.79	20.3dBm – 25.7dBm	<b>Pass</b>
	3	20.9	21.52	22.37	19.8dBm – 25.7dBm	<b>Pass</b>
	4	20.41	21.16	22.28	19.8dBm – 25.7dBm	<b>Pass</b>
	5	20.91	21.55	22.38	19.8dBm – 25.7dBm	<b>Pass</b>

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Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSUPA V	1	22.65	<b>22.59</b>	23.06	18.8dBm – 25.7dBm	<b>Pass</b>
	2	22.05	22.08	22.54	16.8dBm – 25.7dBm	<b>Pass</b>
	3	22.72	22.6	23.06	17.8dBm – 25.7dBm	<b>Pass</b>
	4	22.59	22.58	23.03	16.8dBm – 25.7dBm	<b>Pass</b>
	5	22.73	22.61	23.07	18.8dBm – 25.7dBm	<b>Pass</b>

### WCDMA/HSDPA/HSUPA band II, IV, 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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## 7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

### 7.1. Standard Applicable

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.

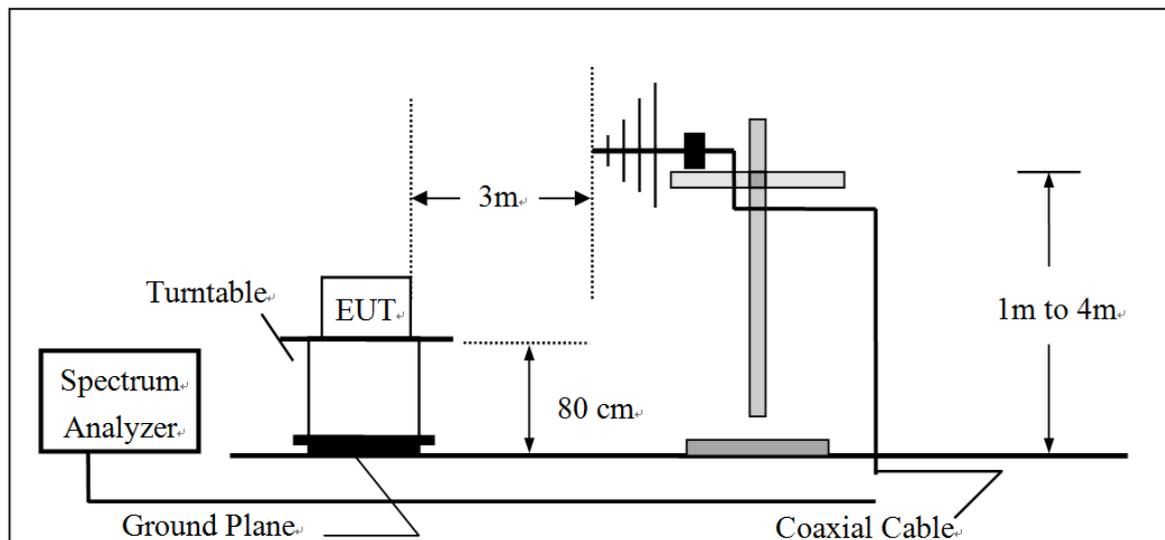
FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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

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

### 7.2. Test SET-UP

(A) Radiated Power Test Set-Up, Frequency Below 1000MHz



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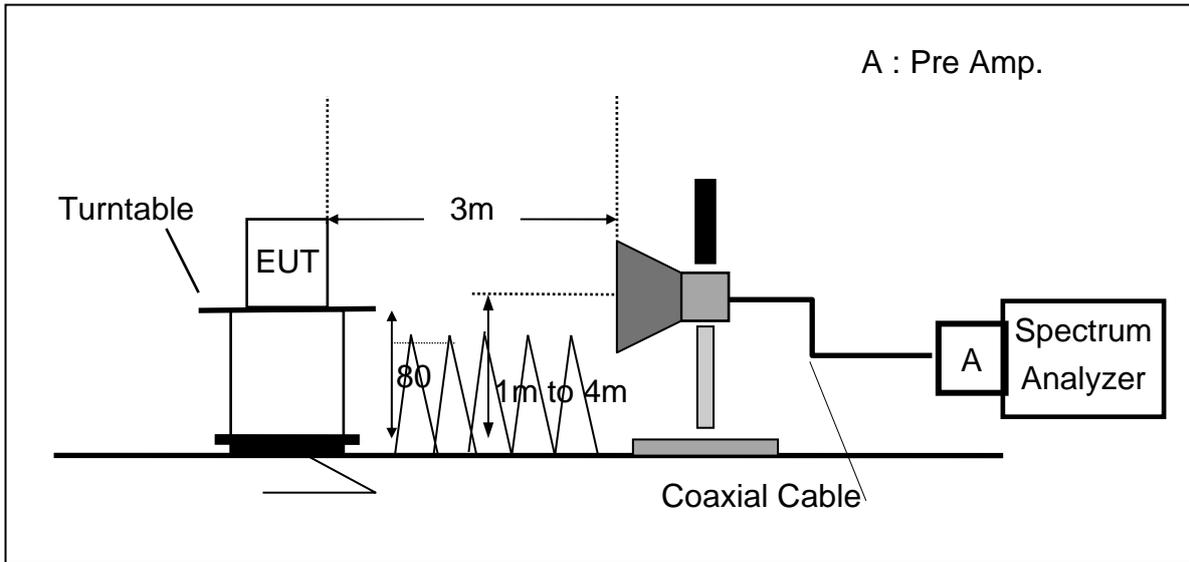
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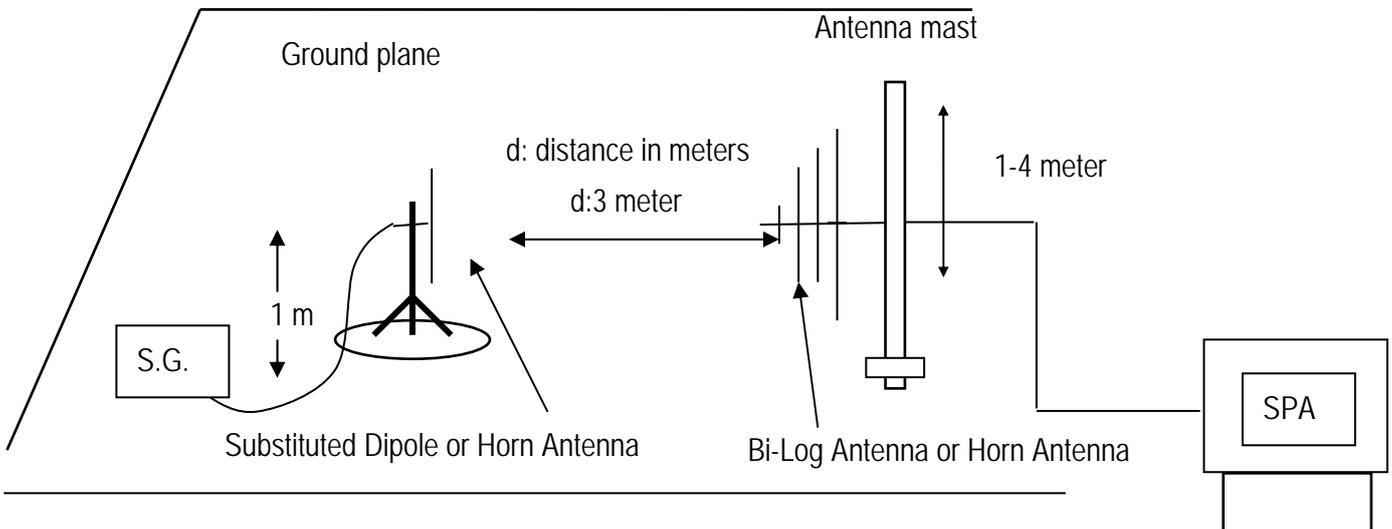
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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### 7.3. Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 971168 D01
2. The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
3. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated
4. The testing follows the Measurement Procedure of FCC KDB 971168 D01
5. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
6.  $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
7.  $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
8. Spectrum setting:
  - (1) Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and  $VBW \geq 3 \times RBW$ .
  - (2) KDB 971168 D01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.  
Set frequency = nominal signal center frequency;  
Set span = 2 X occupied BW;  
Set RBW  $\approx$  1~5% of the span, not to exceed 1 MHz  
Set VBW = 3 x RBW;  
Select average power (RMS) detector  
Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601points, then sweep time =  $601 \times 10^{-3} = 6s$ .

Activate trace averaging routine over a minimum of 10 sweeps;

Activate marker/span pair and set span = signal or channel bandwidth;

Activate the band/interval power marker function;

Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

The proper adjustment due to limitation of spectrum capability is given compensated to spectrum with conversion factor of  $10 \times \log(TBW/RBW)$ , where TBW is the transmission of UE exceeding the maximum BW UE can extends, and RBW is the resolution BW in UE.

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#### 7.4. Measurement Equipment Used

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/18/2017	04/17/2018
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017
Broadband Antenna	TESEQ	CBL 6112D	35243	11/09/2016	11/08/2017
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017
Horn Antenna	ETS-Lindgren	3117	143279	11/14/2016	11/13/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2016	12/10/2017
Horn Antenna	Schwarzbeck	BBHA9170	185	08/01/2017	07/31/2018
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-26	100780	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF27	12/12/2016	12/11/2017
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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**7.5. Measurement Result: (Peak) –using option of peak measurement**

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	12.59	9.57	-6.86	15.31	33.01
			H	19.21	9.57	-6.86	21.93	33.01
	1880.0	18900	V	12.72	9.69	-6.91	15.50	33.01
			H	20.37	9.69	-6.91	23.16	33.01
	1909.3	19193	V	11.73	9.82	-6.97	14.58	33.01
			H	20.64	9.82	-6.97	<b>23.50</b>	33.01
LTE BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	12.46	9.57	-6.86	15.18	33.01
			H	19.04	9.57	-6.86	21.76	33.01
	1880.0	18900	V	12.94	9.70	-6.91	15.73	33.01
			H	20.32	9.70	-6.91	23.11	33.01
	1909.3	19193	V	11.37	9.82	-6.97	14.23	33.01
			H	20.48	9.82	-6.97	23.34	33.01
LTE BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	12.48	9.58	-6.86	15.19	33.01
			H	19.22	9.58	-6.86	21.94	33.01
	1880.0	18900	V	12.84	9.70	-6.91	15.62	33.01
			H	20.46	9.70	-6.91	23.24	33.01
	1909.3	19193	V	11.73	9.82	-6.97	14.58	33.01
			H	20.71	9.82	-6.97	<b>23.56</b>	33.01
LTE BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	12.54	9.58	-6.86	15.26	33.01
			H	19.14	9.58	-6.86	21.86	33.01
	1880.0	18900	V	13.05	9.70	-6.91	15.84	33.01
			H	20.41	9.70	-6.91	23.20	33.01
	1909.3	19193	V	11.43	9.82	-6.97	14.28	33.01
			H	20.60	9.82	-6.97	23.45	33.01
LTE BAND 2 BW: 1.4M 64QAM RB: 1,0	1850.7	18607	V	14.09	9.57	-6.86	16.81	33.01
			H	12.01	9.57	-6.86	14.72	33.01
	1880.0	18900	V	10.87	9.70	-6.91	13.65	33.01
			H	14.72	9.70	-6.91	<b>17.50</b>	33.01
	1909.3	19193	V	10.61	9.82	-6.97	13.46	33.01
			H	13.69	9.82	-6.97	16.55	33.01
LTE BAND 2 BW: 1.4M 64QAM RB: 1,74	1850.7	18607	V	12.00	9.57	-6.86	14.72	33.01
			H	14.09	9.57	-6.86	16.80	33.01
	1880.0	18900	V	10.89	9.69	-6.91	13.67	33.01
			H	14.60	9.70	-6.91	17.39	33.01
	1909.3	19193	V	10.65	9.82	-6.97	13.51	33.01
			H	13.47	9.82	-6.97	16.33	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	12.39	9.57	-6.86	15.10	33.01
			H	19.19	9.57	-6.86	21.90	33.01
	1880.0	18900	V	12.48	9.69	-6.91	15.26	33.01
			H	20.02	9.69	-6.91	22.80	33.01
	1908.5	19185	V	12.15	9.81	-6.96	15.00	33.01
			H	20.82	9.81	-6.96	23.67	33.01
LTE BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	12.50	9.58	-6.86	15.22	33.01
			H	18.84	9.58	-6.86	21.56	33.01
	1880.0	18900	V	12.89	9.70	-6.92	15.68	33.01
			H	19.95	9.70	-6.92	22.73	33.01
	1908.5	19185	V	11.41	9.82	-6.97	14.26	33.01
			H	20.47	9.82	-6.97	23.33	33.01
LTE BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	12.47	9.57	-6.86	15.19	33.01
			H	19.24	9.57	-6.86	21.96	33.01
	1880.0	18900	V	12.31	9.70	-6.91	15.10	33.01
			H	19.96	9.70	-6.91	22.75	33.01
	1908.5	19185	V	12.25	9.81	-6.96	15.10	33.01
			H	20.86	9.81	-6.96	23.71	33.01
LTE BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	12.50	9.58	-6.86	15.22	33.01
			H	18.92	9.58	-6.86	21.64	33.01
	1880.0	18900	V	12.90	9.70	-6.92	15.69	33.01
			H	20.11	9.70	-6.92	22.90	33.01
	1908.5	19185	V	11.37	9.82	-6.97	14.23	33.01
			H	20.56	9.82	-6.97	23.41	33.01
LTE BAND 2 BW: 3M 64QAM RB: 1,0	1851.5	18615	V	12.18	9.57	-6.86	14.90	33.01
			H	14.42	9.57	-6.86	17.14	33.01
	1880.0	18900	V	10.79	9.69	-6.91	13.57	33.01
			H	14.70	9.69	-6.91	17.48	33.01
	1908.5	19185	V	13.99	9.81	-6.96	16.84	33.01
			H	14.93	9.81	-6.96	17.78	33.01
LTE BAND 2 BW: 3M 64QAM RB: 1,74	1851.5	18615	V	12.19	9.58	-6.86	14.91	33.01
			H	13.77	9.58	-6.86	16.49	33.01
	1880.0	18900	V	10.78	9.70	-6.92	13.57	33.01
			H	14.35	9.70	-6.92	17.14	33.01
	1908.5	19185	V	14.01	9.82	-6.97	16.86	33.01
			H	14.72	9.82	-6.97	17.57	33.01

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	12.41	9.57	-6.86	15.12	33.01
			H	19.18	9.57	-6.86	21.90	33.01
	1880.0	18900	V	12.28	9.69	-6.91	15.06	33.01
			H	20.10	9.69	-6.91	22.88	33.01
	1907.5	19175	V	12.67	9.80	-6.96	15.52	33.01
			H	20.45	9.80	-6.96	<b>23.30</b>	33.01
LTE BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	12.43	9.59	-6.86	15.15	33.01
			H	18.82	9.59	-6.86	21.55	33.01
	1880.0	18900	V	13.14	9.71	-6.92	15.93	33.01
			H	20.05	9.71	-6.92	22.83	33.01
	1907.5	19175	V	11.41	9.82	-6.97	14.26	33.01
			H	20.43	9.82	-6.97	23.28	33.01
LTE BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	12.47	9.57	-6.86	15.19	33.01
			H	19.23	9.57	-6.86	21.94	33.01
	1880.0	18900	V	12.20	9.69	-6.91	14.98	33.01
			H	20.13	9.69	-6.91	22.91	33.01
	1907.5	19175	V	12.77	9.80	-6.96	15.61	33.01
			H	20.58	9.80	-6.96	<b>23.43</b>	33.01
LTE BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	12.50	9.59	-6.86	15.22	33.01
			H	18.87	9.59	-6.86	21.60	33.01
	1880.0	18900	V	13.20	9.70	-6.92	15.99	33.01
			H	20.17	9.70	-6.92	22.96	33.01
	1907.5	19175	V	11.48	9.82	-6.97	14.34	33.01
			H	20.54	9.82	-6.97	23.39	33.01
LTE BAND 2 BW: 5M 64QAM RB: 1,0	1852.5	18625	V	11.93	9.57	-6.86	14.64	33.01
			H	13.77	9.57	-6.86	16.49	33.01
	1880.0	18900	V	12.68	9.69	-6.91	15.46	33.01
			H	13.78	9.69	-6.91	16.56	33.01
	1907.5	19175	V	12.83	9.80	-6.96	15.67	33.01
			H	15.01	9.80	-6.96	<b>17.85</b>	33.01
LTE BAND 2 BW: 5M 64QAM RB: 1,74	1852.5	18625	V	11.56	9.59	-6.86	14.29	33.01
			H	13.51	9.59	-6.86	16.24	33.01
	1880.0	18900	V	12.75	9.71	-6.92	15.54	33.01
			H	13.39	9.71	-6.92	16.18	33.01
	1907.5	19175	V	12.45	9.82	-6.97	15.31	33.01
			H	14.81	9.82	-6.97	17.66	33.01

Remark : ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	12.45	9.57	-6.86	15.16	33.01
			H	19.17	9.57	-6.86	21.89	33.01
	1880.0	18900	V	12.19	9.68	-6.90	14.96	33.01
			H	20.16	9.68	-6.90	22.94	33.01
1905.0	19150	V	13.58	9.78	-6.95	16.41	33.01	
		H	19.95	9.78	-6.95	22.78	33.01	
LTE BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	12.66	9.61	-6.87	15.40	33.01
			H	19.17	9.61	-6.87	21.90	33.01
	1880.0	18900	V	13.80	9.72	-6.92	16.60	33.01
			H	20.07	9.72	-6.92	22.87	33.01
1905.0	19150	V	11.52	9.82	-6.97	14.38	33.01	
		H	20.50	9.82	-6.97	<b>23.36</b>	33.01	
LTE BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	12.47	9.57	-6.86	15.18	33.01
			H	19.19	9.57	-6.86	21.91	33.01
	1880.0	18900	V	12.12	9.68	-6.90	14.89	33.01
			H	20.20	9.68	-6.90	22.98	33.01
1905.0	19150	V	13.66	9.78	-6.95	16.49	33.01	
		H	20.01	9.78	-6.95	22.84	33.01	
LTE BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	12.70	9.61	-6.87	15.44	33.01
			H	19.23	9.61	-6.87	21.96	33.01
	1880.0	18900	V	13.73	9.71	-6.92	16.52	33.01
			H	20.08	9.71	-6.92	22.87	33.01
1905.0	19150	V	11.56	9.82	-6.97	14.42	33.01	
		H	20.59	9.82	-6.97	<b>23.44</b>	33.01	
LTE BAND 2 BW: 10M 64QAM RB: 1,0	1855.0	18650	V	12.95	9.58	-6.86	15.67	33.01
			H	14.50	9.57	-6.86	<b>17.22</b>	33.01
	1880.0	18900	V	12.21	9.68	-6.91	14.98	33.01
			H	14.01	9.68	-6.90	16.78	33.01
1905.0	19150	V	13.31	9.79	-6.95	16.14	33.01	
		H	13.72	9.78	-6.95	16.55	33.01	
LTE BAND 2 BW: 10M 64QAM RB: 1,74	1855.0	18650	V	11.92	9.61	-6.87	14.66	33.01
			H	13.90	9.61	-6.87	16.64	33.01
	1880.0	18900	V	12.43	9.71	-6.92	15.22	33.01
			H	13.49	9.71	-6.92	16.28	33.01
1905.0	19150	V	12.64	9.82	-6.97	15.49	33.01	
		H	13.75	9.78	-6.95	16.58	33.01	

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 15M QPSK RB: 1,0	1857.5	18675	V	12.46	9.57	-6.86	15.18	33.01
			H	19.15	9.57	-6.86	21.86	33.01
	1880.0	18900	V	9.71	9.67	-6.90	12.47	33.01
			H	19.91	9.67	-6.90	22.68	33.01
	1902.5	19125	V	14.43	9.76	-6.94	17.25	33.01
			H	20.42	9.76	-6.94	23.24	33.01
LTE BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	11.80	9.63	-6.88	14.54	33.01
			H	19.12	9.63	-6.88	21.87	33.01
	1880.0	18900	V	13.80	9.72	-6.92	16.60	33.01
			H	19.81	9.72	-6.92	22.61	33.01
	1902.5	19125	V	11.56	9.82	-6.97	14.41	33.01
			H	20.53	9.82	-6.97	<b>23.39</b>	33.01
LTE BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	12.48	9.58	-6.86	15.20	33.01
			H	19.18	9.58	-6.86	21.90	33.01
	1880.0	18900	V	11.76	9.67	-6.90	14.53	33.01
			H	19.83	9.67	-6.90	22.60	33.01
	1902.5	19125	V	14.46	9.76	-6.94	17.28	33.01
			H	20.54	9.76	-6.94	<b>23.36</b>	33.01
LTE BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	11.66	9.63	-6.88	14.40	33.01
			H	19.08	9.63	-6.88	21.83	33.01
	1880.0	18900	V	13.81	9.72	-6.92	16.61	33.01
			H	19.80	9.72	-6.92	22.60	33.01
	1902.5	19125	V	11.69	9.80	-6.96	14.54	33.01
			H	19.81	9.80	-6.96	22.65	33.01
LTE BAND 2 BW: 15M 64QAM RB: 1,0	1857.5	18675	V	13.98	9.58	-6.86	16.70	33.01
			H	17.12	9.57	-6.86	19.83	33.01
	1880.0	18900	V	16.27	9.67	-6.90	19.04	33.01
			H	17.55	9.67	-6.90	20.32	33.01
	1902.5	19125	V	14.79	9.76	-6.94	17.61	33.01
			H	18.42	9.77	-6.94	21.24	33.01
LTE BAND 2 BW: 15M 64QAM RB: 1,74	1857.5	18675	V	15.05	9.63	-6.88	17.80	33.01
			H	17.01	9.63	-6.88	19.75	33.01
	1880.0	18900	V	14.37	9.73	-6.93	17.17	33.01
			H	17.84	9.72	-6.92	20.64	33.01
	1902.5	19125	V	13.84	9.82	-6.97	16.70	33.01
			H	19.07	9.82	-6.97	<b>21.92</b>	33.01

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	12.47	9.58	-6.86	15.19	33.01
			H	19.10	9.58	-6.86	21.82	33.01
	1880.0	18900	V	11.81	9.66	-6.90	14.57	33.01
			H	19.85	9.66	-6.90	22.61	33.01
1900.0	19100	V	11.91	9.74	-6.93	14.72	33.01	
		H	20.49	9.74	-6.93	23.30	33.01	
LTE BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	11.61	9.65	-6.89	14.37	33.01
			H	19.52	9.65	-6.89	22.28	33.01
	1880.0	18900	V	14.07	9.74	-6.93	16.88	33.01
			H	20.06	9.74	-6.93	22.87	33.01
1900.0	19100	V	11.72	9.82	-6.97	14.57	33.01	
		H	20.61	9.82	-6.97	<b>23.46</b>	33.01	
LTE BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	12.51	9.57	-6.86	15.23	33.01
			H	19.13	9.57	-6.86	21.85	33.01
	1880.0	18900	V	11.76	9.66	-6.90	14.52	33.01
			H	19.82	9.66	-6.90	22.59	33.01
1900.0	19100	V	14.25	9.74	-6.93	17.06	33.01	
		H	20.37	9.74	-6.93	23.18	33.01	
LTE BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	11.54	9.65	-6.89	14.30	33.01
			H	19.56	9.65	-6.89	22.32	33.01
	1880.0	18900	V	14.00	9.74	-6.93	16.80	33.01
			H	20.07	9.74	-6.93	22.87	33.01
1900.0	19100	V	11.91	9.82	-6.97	14.76	33.01	
		H	20.72	9.82	-6.97	<b>23.58</b>	33.01	
LTE BAND 2 BW: 20M 64QAM RB: 1,0	1860.0	18700	V	13.39	9.57	-6.86	16.10	33.01
			H	18.68	9.57	-6.86	<b>21.40</b>	33.01
	1880.0	18900	V	13.58	9.66	-6.90	16.34	33.01
			H	17.70	9.66	-6.90	20.46	33.01
1900.0	19100	V	12.83	9.75	-6.93	15.65	33.01	
		H	18.03	9.75	-6.93	20.84	33.01	
LTE BAND 2 BW: 20M 64QAM RB: 1,99	1860.0	18700	V	13.44	9.65	-6.89	16.20	33.01
			H	17.29	9.65	-6.89	20.05	33.01
	1880.0	18900	V	12.28	9.73	-6.93	15.09	33.01
			H	17.73	9.73	-6.93	20.54	33.01
1900.0	19100	V	12.60	9.82	-6.97	15.45	33.01	
		H	17.75	9.82	-6.97	20.60	33.01	

Remark : ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 1.4M QPSK RB: 1,0	1710.7	19957	V	9.01	8.99	-6.58	11.41	30.00
			H	16.75	8.99	-6.58	19.16	30.00
	1732.5	20175	V	7.11	9.08	-6.62	9.56	30.00
			H	17.03	9.08	-6.62	19.48	30.00
	1754.3	20393	V	10.11	9.16	-6.67	12.61	30.00
			H	17.76	9.16	-6.67	20.26	30.00
LTE BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	8.93	8.98	-6.58	11.33	30.00
			H	16.89	8.98	-6.58	19.30	30.00
	1732.5	20175	V	7.17	9.08	-6.63	9.63	30.00
			H	16.60	9.08	-6.63	19.06	30.00
	1754.3	20393	V	10.39	9.18	-6.67	12.89	30.00
			H	18.13	9.18	-6.67	20.63	30.00
LTE BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	8.70	8.98	-6.58	11.10	30.00
			H	16.60	8.98	-6.58	19.00	30.00
	1732.5	20175	V	7.16	9.08	-6.63	9.61	30.00
			H	16.91	9.08	-6.63	19.37	30.00
	1754.3	20393	V	10.17	9.17	-6.67	12.67	30.00
			H	17.96	9.17	-6.67	20.45	30.00
LTE BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	8.94	8.99	-6.58	11.34	30.00
			H	16.77	8.99	-6.58	19.17	30.00
	1732.5	20175	V	7.18	9.08	-6.63	9.63	30.00
			H	16.72	9.08	-6.63	19.18	30.00
	1754.3	20393	V	10.34	9.17	-6.67	12.84	30.00
			H	18.16	9.17	-6.67	20.66	30.00
LTE BAND 4 BW: 1.4M 64QAM RB: 1,0	1710.7	19957	V	13.36	8.99	-6.58	15.77	30.00
			H	14.93	8.98	-6.58	17.33	30.00
	1732.5	20175	V	13.64	9.08	-6.63	16.09	30.00
			H	13.73	9.07	-6.62	16.18	30.00
	1754.3	20393	V	15.27	9.17	-6.67	17.77	30.00
			H	18.84	9.17	-6.67	21.33	30.00
LTE BAND 4 BW: 1.4M 64QAM RB: 1,5	1710.7	19957	V	12.64	8.99	-6.58	15.05	30.00
			H	11.09	8.99	-6.58	13.49	30.00
	1732.5	20175	V	13.44	9.08	-6.63	15.89	30.00
			H	11.48	9.08	-6.63	13.94	30.00
	1754.3	20393	V	11.99	9.17	-6.67	14.49	30.00
			H	9.14	9.17	-6.67	11.64	30.00

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	8.63	8.98	-6.58	11.03	30.00
			H	16.77	8.98	-6.58	19.18	30.00
	1732.5	20175	V	7.04	9.07	-6.62	9.49	30.00
			H	17.38	9.07	-6.62	19.83	30.00
	1753.5	20385	V	9.69	9.16	-6.67	12.18	30.00
			H	17.33	9.16	-6.67	19.83	30.00
LTE BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	8.73	8.99	-6.59	11.14	30.00
			H	17.28	8.99	-6.59	19.69	30.00
	1732.5	20175	V	7.21	9.08	-6.63	9.67	30.00
			H	16.54	9.08	-6.63	18.99	30.00
	1753.5	20385	V	10.37	9.16	-6.67	12.87	30.00
			H	18.26	9.16	-6.67	20.75	30.00
LTE BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	8.14	8.99	-6.58	10.54	30.00
			H	16.67	8.99	-6.58	19.07	30.00
	1732.5	20175	V	7.08	9.07	-6.62	9.53	30.00
			H	17.19	9.07	-6.62	19.64	30.00
	1753.5	20385	V	9.50	9.16	-6.66	11.99	30.00
			H	17.20	9.16	-6.66	19.69	30.00
LTE BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	8.91	8.99	-6.59	11.32	30.00
			H	17.20	8.99	-6.59	19.60	30.00
	1732.5	20175	V	7.35	9.08	-6.63	9.81	30.00
			H	16.43	9.08	-6.63	18.88	30.00
	1753.5	20385	V	10.23	9.17	-6.67	12.73	30.00
			H	18.08	9.17	-6.67	20.59	30.00
LTE BAND 4 BW: 3M 64QAM RB: 1,0	1711.5	19965	V	9.06	8.98	-6.58	11.47	30.00
			H	7.30	8.98	-6.58	9.70	30.00
	1732.5	20175	V	8.43	9.07	-6.62	10.88	30.00
			H	7.77	9.07	-6.62	10.21	30.00
	1753.5	20385	V	11.28	9.16	-6.67	13.78	30.00
			H	9.08	9.16	-6.67	11.58	30.00
LTE BAND 4 BW: 3M 64QAM RB: 1,5	1711.5	19965	V	9.38	9.00	-6.59	11.79	30.00
			H	7.52	8.99	-6.58	9.93	30.00
	1732.5	20175	V	7.98	9.08	-6.63	10.44	30.00
			H	7.17	9.08	-6.63	9.62	30.00
	1753.5	20385	V	12.07	9.17	-6.67	14.57	30.00
			H	9.17	9.17	-6.67	11.67	30.00

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	8.63	8.99	-6.58	11.04	30.00
			H	16.80	8.99	-6.58	19.20	30.00
	1732.5	20175	V	7.14	9.07	-6.62	9.59	30.00
			H	17.67	9.07	-6.62	20.12	30.00
	1752.5	20375	V	8.80	9.15	-6.66	11.29	30.00
			H	16.39	9.15	-6.66	18.88	30.00
LTE BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	10.13	9.00	-6.59	12.54	30.00
			H	17.85	9.00	-6.59	20.26	30.00
	1732.5	20175	V	7.27	9.08	-6.63	9.73	30.00
			H	16.14	9.08	-6.63	18.60	30.00
	1752.5	20375	V	10.25	9.17	-6.67	12.75	30.00
			H	18.41	9.17	-6.67	20.91	30.00
LTE BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	8.73	8.98	-6.58	11.14	30.00
			H	16.55	8.98	-6.58	18.95	30.00
	1732.5	20175	V	7.16	9.07	-6.62	9.61	30.00
			H	17.57	9.07	-6.62	20.02	30.00
	1752.5	20375	V	8.85	9.15	-6.66	11.34	30.00
			H	16.31	9.15	-6.66	18.80	30.00
LTE BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	10.05	9.00	-6.59	12.46	30.00
			H	17.67	9.00	-6.59	20.08	30.00
	1732.5	20175	V	7.32	9.09	-6.63	9.78	30.00
			H	16.12	9.09	-6.63	18.58	30.00
	1752.5	20375	V	10.22	9.17	-6.67	12.72	30.00
			H	18.02	9.17	-6.67	20.52	30.00
LTE BAND 4 BW: 5M 64QAM RB: 1,0	1712.5	19975	V	9.05	8.99	-6.58	11.46	30.00
			H	7.19	8.99	-6.58	9.60	30.00
	1732.5	20175	V	8.52	9.07	-6.62	10.96	30.00
			H	7.89	9.07	-6.62	10.33	30.00
	1752.5	20375	V	10.16	9.15	-6.66	12.66	30.00
			H	8.51	9.16	-6.66	11.00	30.00
LTE BAND 4 BW: 5M 64QAM RB: 1,5	1712.5	19975	V	9.65	9.01	-6.59	12.07	30.00
			H	7.86	9.00	-6.59	10.28	30.00
	1732.5	20175	V	7.90	9.09	-6.63	10.36	30.00
			H	6.97	9.09	-6.63	9.42	30.00
	1752.5	20375	V	12.06	9.17	-6.67	14.56	30.00
			H	9.05	9.17	-6.67	11.55	30.00

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	8.23	8.99	-6.58	10.63	30.00
			H	16.84	8.99	-6.58	19.24	30.00
	1732.0	20175	V	7.34	9.06	-6.62	9.78	30.00
			H	18.24	9.06	-6.62	20.68	30.00
	1750.0	20350	V	6.67	9.13	-6.65	9.15	30.00
			H	15.32	9.13	-6.65	17.80	30.00
LTE BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	10.42	9.02	-6.60	12.84	30.00
			H	19.34	9.02	-6.60	<b>21.76</b>	30.00
	1732.0	20175	V	7.52	9.09	-6.63	9.98	30.00
			H	15.67	9.09	-6.63	18.13	30.00
	1750.0	20350	V	10.83	9.17	-6.67	13.33	30.00
			H	18.32	9.17	-6.67	20.82	30.00
LTE BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	8.18	8.98	-6.58	10.58	30.00
			H	16.69	8.98	-6.58	19.09	30.00
	1732.0	20175	V	7.34	9.06	-6.62	9.78	30.00
			H	18.16	9.06	-6.62	20.61	30.00
	1750.0	20350	V	6.75	9.13	-6.65	9.23	30.00
			H	15.15	9.13	-6.65	17.63	30.00
LTE BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	10.36	9.02	-6.60	12.79	30.00
			H	19.11	9.02	-6.60	<b>21.53</b>	30.00
	1732.0	20175	V	7.65	9.09	-6.63	10.12	30.00
			H	15.63	9.09	-6.63	18.09	30.00
	1750.0	20350	V	10.69	9.17	-6.67	13.19	30.00
			H	18.00	9.17	-6.67	20.50	30.00
LTE BAND 4 BW: 10M 64QAM RB: 1,0	1715.0	20000	V	9.21	8.99	-6.58	11.62	30.00
			H	7.07	8.98	-6.58	9.48	30.00
	1732.0	20175	V	8.73	9.06	-6.62	11.17	30.00
			H	8.52	9.05	-6.61	10.96	30.00
	1750.0	20350	V	8.26	9.13	-6.65	10.74	30.00
			H	7.39	9.13	-6.65	9.88	30.00
LTE BAND 4 BW: 10M 64QAM RB: 1,5	1715.0	20000	V	9.89	9.02	-6.60	12.31	30.00
			H	9.38	9.02	-6.60	11.80	30.00
	1732.0	20175	V	7.73	9.10	-6.63	10.19	30.00
			H	6.77	9.10	-6.63	9.23	30.00
	1750.0	20350	V	11.79	9.17	-6.67	<b>14.29</b>	30.00
			H	8.89	9.17	-6.67	11.39	30.00

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	8.34	8.99	-6.58	10.74	30.00
			H	16.89	8.99	-6.58	19.29	30.00
	1732.5	20175	V	8.20	9.05	-6.61	10.64	30.00
			H	18.74	9.05	-6.61	21.18	30.00
	1747.5	20325	V	6.22	9.12	-6.64	8.69	30.00
			H	14.99	9.12	-6.64	17.46	30.00
LTE BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	8.87	9.04	-6.61	11.30	30.00
			H	19.12	9.04	-6.61	21.55	30.00
	1732.5	20175	V	7.76	9.11	-6.64	10.23	30.00
			H	15.26	9.11	-6.64	17.73	30.00
	1747.5	20325	V	10.63	9.17	-6.67	13.13	30.00
			H	18.02	9.17	-6.67	20.52	30.00
LTE BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	8.22	8.99	-6.58	10.63	30.00
			H	16.75	8.99	-6.58	19.16	30.00
	1732.5	20175	V	7.95	9.05	-6.61	10.39	30.00
			H	18.92	9.05	-6.61	21.36	30.00
	1747.5	20325	V	6.33	9.11	-6.64	8.80	30.00
			H	15.18	9.11	-6.64	17.65	30.00
LTE BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	8.97	9.04	-6.61	11.41	30.00
			H	19.04	9.04	-6.61	21.48	30.00
	1732.5	20175	V	7.93	9.10	-6.64	10.39	30.00
			H	15.20	9.10	-6.64	17.67	30.00
	1747.5	20325	V	10.31	9.17	-6.67	12.81	30.00
			H	17.58	9.17	-6.67	20.08	30.00
LTE BAND 4 BW: 15M 64QAM RB: 1,0	1717.5	20025	V	9.06	8.99	-6.58	11.47	30.00
			H	7.08	8.99	-6.58	9.49	30.00
	1732.5	20175	V	8.87	9.05	-6.61	11.30	30.00
			H	8.92	9.05	-6.61	11.36	30.00
	1747.5	20325	V	7.52	9.11	-6.64	9.99	30.00
			H	6.91	9.11	-6.64	9.38	30.00
LTE BAND 4 BW: 15M 64QAM RB: 1,5	1717.5	20025	V	9.09	9.04	-6.61	11.52	30.00
			H	9.21	9.04	-6.61	11.65	30.00
	1732.5	20175	V	7.46	9.10	-6.64	9.92	30.00
			H	6.75	9.11	-6.64	9.22	30.00
	1747.5	20325	V	11.72	9.17	-6.67	14.22	30.00
			H	8.76	9.17	-6.67	11.26	30.00

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	8.28	8.99	-6.58	10.69	30.00
			H	16.65	8.99	-6.58	19.05	30.00
	1732.5	20175	V	8.98	9.04	-6.61	11.41	30.00
			H	19.15	9.04	-6.61	<b>21.58</b>	30.00
	1745.0	20300	V	6.04	9.09	-6.63	8.49	30.00
			H	15.89	9.09	-6.63	18.35	30.00
LTE BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	7.30	9.06	-6.62	9.74	30.00
			H	17.85	9.06	-6.62	20.29	30.00
	1732.5	20175	V	7.90	9.11	-6.64	10.37	30.00
			H	14.84	9.11	-6.64	17.31	30.00
	1745.0	20300	V	10.05	9.16	-6.67	12.54	30.00
			H	17.43	9.16	-6.67	19.92	30.00
LTE BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	7.58	8.99	-6.58	9.99	30.00
			H	16.75	8.99	-6.58	19.15	30.00
	1732.5	20175	V	8.99	9.05	-6.61	11.43	30.00
			H	19.25	9.05	-6.61	<b>21.68</b>	30.00
	1745.0	20300	V	5.95	9.09	-6.63	8.41	30.00
			H	15.50	9.09	-6.63	17.96	30.00
LTE BAND 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	7.99	9.06	-6.62	10.44	30.00
			H	17.93	9.06	-6.62	20.37	30.00
	1732.5	20175	V	8.02	9.11	-6.64	10.49	30.00
			H	15.02	9.11	-6.64	17.49	30.00
	1745.0	20300	V	10.12	9.17	-6.67	12.62	30.00
			H	17.67	9.17	-6.67	20.17	30.00
LTE BAND 4 BW: 20M 64QAM RB: 1,0	1720.0	20050	V	8.91	8.99	-6.58	11.32	30.00
			H	6.79	8.99	-6.58	9.20	30.00
	1732.5	20175	V	9.30	9.04	-6.61	11.73	30.00
			H	8.92	9.04	-6.61	11.35	30.00
	1745.0	20300	V	7.60	9.09	-6.63	10.06	30.00
			H	6.49	9.09	-6.63	8.95	30.00
LTE BAND 4 BW: 20M 64QAM RB: 1,5	1720.0	20050	V	9.27	9.06	-6.62	11.72	30.00
			H	7.87	9.06	-6.62	10.32	30.00
	1732.5	20175	V	8.15	9.11	-6.64	10.62	30.00
			H	6.53	9.11	-6.64	9.00	30.00
	1745.0	20300	V	12.14	9.17	-6.67	<b>14.64</b>	30.00
			H	8.05	9.16	-6.67	10.55	30.00

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 5 BW: 1.4M QPSK RB: 1,0	824.7	20407	V	16.81	5.14	-5.43	16.52	38.45
			H	25.66	5.14	-5.43	25.37	38.45
	836.5	20525	V	19.00	5.10	-5.46	18.64	38.45
			H	27.90	5.10	-5.46	<b>27.54</b>	38.45
848.3	20643	V	15.98	5.06	-5.50	15.54	38.45	
		H	25.64	5.06	-5.50	25.20	38.45	
LTE BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	16.83	5.13	-5.43	16.53	38.45
			H	20.18	5.13	-5.43	19.88	38.45
	836.5	20525	V	18.55	5.10	-5.47	18.18	38.45
			H	20.31	5.10	-5.47	19.94	38.45
848.3	20643	V	16.56	5.10	-5.51	16.15	38.45	
		H	25.10	5.10	-5.51	24.69	38.45	
LTE BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	16.67	5.14	-5.43	16.38	38.45
			H	25.40	5.14	-5.43	25.11	38.45
	836.5	20525	V	18.87	5.10	-5.47	18.50	38.45
			H	28.00	5.10	-5.47	<b>27.63</b>	38.45
848.3	20643	V	17.45	5.10	-5.51	17.04	38.45	
		H	25.74	5.10	-5.51	25.33	38.45	
LTE BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	16.71	5.14	-5.43	16.42	38.45
			H	25.06	5.14	-5.43	24.77	38.45
	836.5	20525	V	18.37	5.09	-5.47	17.99	38.45
			H	27.64	5.09	-5.47	27.26	38.45
848.3	20643	V	16.79	5.06	-5.51	16.34	38.45	
		H	25.20	5.06	-5.51	24.75	38.45	
LTE BAND 5 BW: 1.4M 64QAM RB: 1,0	824.7	20407	V	17.85	5.14	-5.43	17.56	38.45
			H	24.18	5.13	-5.43	23.89	38.45
	836.5	20525	V	11.95	5.10	-5.47	11.58	38.45
			H	17.31	5.10	-5.47	16.94	38.45
848.3	20643	V	20.44	5.06	-5.51	19.99	38.45	
		H	25.60	5.06	-5.51	25.15	38.45	
LTE BAND 5 BW: 1.4M 64QAM RB: 1,5	824.7	20407	V	13.31	5.14	-5.43	13.02	38.45
			H	16.01	5.13	-5.43	15.71	38.45
	836.5	20525	V	21.86	5.09	-5.47	21.49	38.45
			H	27.02	5.09	-5.47	<b>26.64</b>	38.45
848.3	20643	V	19.92	5.06	-5.51	19.47	38.45	
		H	24.32	5.05	-5.52	23.85	38.45	

Remark : A for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 5 BW: 3M QPSK RB: 1,0	825.5	20415	V	16.53	5.14	-5.43	16.24	38.45
			H	24.94	5.14	-5.43	24.65	38.45
	836.5	20525	V	18.58	5.10	-5.45	18.23	38.45
			H	27.48	5.10	-5.45	<b>27.13</b>	38.45
	847.5	20635	V	18.46	5.06	-5.50	18.02	38.45
			H	26.56	5.06	-5.50	26.12	38.45
LTE BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	17.20	5.13	-5.44	16.89	38.45
			H	20.69	5.13	-5.44	20.38	38.45
	836.5	20525	V	18.30	5.09	-5.47	17.92	38.45
			H	26.41	5.09	-5.47	26.03	38.45
	847.5	20635	V	16.89	5.06	-5.50	16.45	38.45
			H	25.02	5.06	-5.50	24.58	38.45
LTE BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	16.39	5.14	-5.43	16.10	38.45
			H	24.94	5.14	-5.43	24.65	38.45
	836.5	20525	V	18.87	5.10	-5.47	18.50	38.45
			H	27.13	5.10	-5.47	26.76	38.45
	847.5	20635	V	18.55	5.06	-5.51	18.10	38.45
			H	26.02	5.06	-5.51	25.57	38.45
LTE BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	17.40	5.13	-5.44	17.09	38.45
			H	25.54	5.13	-5.44	25.23	38.45
	836.5	20525	V	18.31	5.09	-5.47	17.93	38.45
			H	27.37	5.09	-5.47	<b>26.99</b>	38.45
	847.5	20635	V	16.54	5.06	-5.51	16.09	38.45
			H	25.24	5.06	-5.51	24.79	38.45
LTE BAND 5 BW: 3M 64QAM RB: 1,0	825.5	20415	V	20.45	5.14	-5.43	20.16	38.45
			H	23.83	5.13	-5.43	23.53	38.45
	836.5	20525	V	21.80	5.10	-5.46	21.44	38.45
			H	26.30	5.10	-5.47	<b>25.93</b>	38.45
	847.5	20635	V	21.53	5.06	-5.50	21.09	38.45
			H	26.06	5.06	-5.50	25.62	38.45
LTE BAND 5 BW: 3M 64QAM RB: 1,14	825.5	20415	V	20.79	5.13	-5.44	20.48	38.45
			H	24.51	5.13	-5.44	24.20	38.45
	836.5	20525	V	21.71	5.09	-5.47	21.32	38.45
			H	26.12	5.09	-5.47	25.74	38.45
	847.5	20635	V	19.99	5.06	-5.51	19.53	38.45
			H	24.46	5.05	-5.52	24.00	38.45

Remark : Δ for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 5 BW: 5M QPSK RB: 1,0	826.5	20425	V	16.79	5.14	-5.43	16.50	38.45
			H	25.43	5.14	-5.43	25.14	38.45
	836.5	20525	V	18.97	5.10	-5.46	18.61	38.45
			H	26.94	5.10	-5.46	<b>26.58</b>	38.45
	846.5	20625	V	17.76	5.07	-5.50	17.33	38.45
			H	26.14	5.07	-5.50	25.71	38.45
LTE BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	17.87	5.12	-5.44	17.55	38.45
			H	26.90	5.12	-5.44	26.58	38.45
	836.5	20525	V	18.70	5.09	-5.48	18.31	38.45
			H	26.43	5.09	-5.48	26.04	38.45
	846.5	20625	V	17.90	5.05	-5.51	17.44	38.45
			H	25.18	5.05	-5.51	24.72	38.45
LTE BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	16.96	5.14	-5.43	16.67	38.45
			H	25.50	5.14	-5.43	25.21	38.45
	836.5	20525	V	27.67	5.10	-5.46	<b>27.31</b>	38.45
			H	19.39	5.10	-5.46	19.03	38.45
	846.5	20625	V	18.15	5.07	-5.50	17.72	38.45
			H	26.12	5.07	-5.50	25.69	38.45
LTE BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	18.62	5.12	-5.44	18.30	38.45
			H	27.01	5.12	-5.44	26.69	38.45
	836.5	20525	V	18.27	5.09	-5.47	17.89	38.45
			H	26.19	5.09	-5.47	25.81	38.45
	846.5	20625	V	17.45	5.57	-5.51	17.51	38.45
			H	25.32	5.57	-5.51	25.38	38.45
LTE BAND 5 BW: 5M 64QAM RB: 1,0	826.5	20425	V	20.51	5.14	-5.43	20.21	38.45
			H	24.97	5.14	-5.43	24.68	38.45
	836.5	20525	V	21.89	5.10	-5.46	21.54	38.45
			H	26.10	5.11	-5.46	25.75	38.45
	846.5	20625	V	20.63	5.07	-5.50	20.21	38.45
			H	25.16	5.07	-5.50	24.73	38.45
LTE BAND 5 BW: 5M 64QAM RB: 1,24	826.5	20425	V	21.69	5.12	-5.45	21.37	38.45
			H	25.48	5.12	-5.44	25.16	38.45
	836.5	20525	V	21.57	5.09	-5.48	21.19	38.45
			H	27.95	5.09	-5.48	<b>27.56</b>	38.45
	846.5	20625	V	20.13	5.06	-5.51	19.68	38.45
			H	24.49	5.06	-5.51	24.03	38.45

Remark : Δ for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 5 BW: 10M QPSK RB: 1,0	829.0	20450	V	16.78	5.14	-5.43	16.49	38.45
			H	25.01	5.14	-5.43	24.72	38.45
	836.5	20525	V	18.85	5.11	-5.46	18.50	38.45
			H	27.26	5.11	-5.46	<b>26.91</b>	38.45
	844.0	20600	V	18.00	5.09	-5.48	17.61	38.45
			H	25.76	5.09	-5.48	25.37	38.45
LTE BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	17.78	5.11	-5.46	17.43	38.45
			H	26.32	5.11	-5.46	25.97	38.45
	836.5	20525	V	18.51	5.08	-5.48	18.11	38.45
			H	27.03	5.08	-5.48	26.63	38.45
	844.0	20600	V	17.12	5.06	-5.51	16.67	38.45
			H	24.45	5.06	-5.51	24.00	38.45
LTE BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	17.09	5.14	-5.43	16.80	38.45
			H	24.91	5.14	-5.43	24.62	38.45
	836.5	20525	V	17.62	5.11	-5.46	17.27	38.45
			H	25.62	5.11	-5.46	25.27	38.45
	844.0	20600	V	17.04	5.09	-5.48	16.65	38.45
			H	26.29	5.09	-5.48	<b>25.90</b>	38.45
LTE BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	17.08	5.11	-5.46	16.73	38.45
			H	25.78	5.11	-5.46	25.43	38.45
	836.5	20525	V	18.94	5.08	-5.48	18.54	38.45
			H	26.28	5.08	-5.48	25.88	38.45
	844.0	20600	V	17.47	5.06	-5.51	17.02	38.45
			H	24.72	5.06	-5.51	24.27	38.45
LTE BAND 5 BW: 10M 64QAM RB: 1,0	829.0	20450	V	20.49	5.14	-5.43	20.20	38.45
			H	25.09	5.14	-5.43	24.79	38.45
	836.5	20525	V	20.71	5.11	-5.45	20.37	38.45
			H	25.42	5.11	-5.45	25.08	38.45
	844.0	20600	V	21.46	5.09	-5.48	21.07	38.45
			H	25.76	5.08	-5.48	25.37	38.45
LTE BAND 5 BW: 10M 64QAM RB: 1,49	829.0	20450	V	20.75	5.11	-5.46	20.40	38.45
			H	24.94	5.11	-5.46	24.59	38.45
	836.5	20525	V	21.54	5.08	-5.48	21.14	38.45
			H	25.87	5.08	-5.48	<b>25.47</b>	38.45
	844.0	20600	V	20.17	5.06	-5.51	19.72	38.45
			H	24.57	5.06	-5.51	24.11	38.45

Remark : Δ for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 1.4M QPSK RB: 1,0	699.7	23017	V	14.61	5.06	-3.82	15.85	34.77
			H	18.93	5.06	-3.82	20.17	34.77
	707.5	23095	V	17.02	5.07	-3.84	18.25	34.77
			H	20.60	5.07	-3.84	21.83	34.77
	715.3	23173	V	15.58	5.09	-3.87	16.80	34.77
			H	20.86	5.09	-3.87	22.09	34.77
LTE BAND 12 BW: 1.4M QPSK RB: 1,5	699.7	23017	V	14.76	5.06	-3.82	16.00	34.77
			H	19.36	5.06	-3.82	20.60	34.77
	707.5	23095	V	16.90	5.08	-3.84	18.13	34.77
			H	21.45	5.08	-3.84	22.68	34.77
	715.3	23173	V	15.88	5.09	-3.87	17.10	34.77
			H	21.50	5.09	-3.87	<b>22.72</b>	34.77
LTE BAND 12 BW: 1.4M 16QAM RB: 1,0	699.7	23017	V	14.16	5.06	-3.82	15.40	34.77
			H	17.21	5.06	-3.82	18.44	34.77
	707.5	23095	V	15.46	5.08	-3.85	16.69	34.77
			H	20.22	5.08	-3.85	21.45	34.77
	715.3	23173	V	15.24	5.09	-3.87	16.47	34.77
			H	20.95	5.09	-3.87	22.18	34.77
LTE BAND 12 BW: 1.4M 16QAM RB: 1,5	699.7	23017	V	14.83	5.06	-3.82	16.07	34.77
			H	18.83	5.06	-3.82	20.07	34.77
	707.5	23095	V	17.21	5.08	-3.85	18.44	34.77
			H	21.66	5.08	-3.85	<b>22.90</b>	34.77
	715.3	23173	V	15.78	5.09	-3.87	17.00	34.77
			H	20.95	5.09	-3.87	22.18	34.77
LTE BAND 12 BW: 1.4M 64QAM RB: 1,0	699.7	23017	V	12.01	5.05	-3.82	13.24	34.77
			H	19.49	5.05	-3.82	<b>20.72</b>	34.77
	707.5	23095	V	12.70	5.07	-3.84	13.93	34.77
			H	18.68	5.07	-3.84	19.92	34.77
	715.3	23173	V	11.68	5.09	-3.86	12.90	34.77
			H	18.75	5.09	-3.87	19.98	34.77
LTE BAND 12 BW: 1.4M 64QAM RB: 1,5	699.7	23017	V	12.34	5.06	-3.82	13.58	34.77
			H	19.28	5.06	-3.82	20.52	34.77
	707.5	23095	V	13.94	5.08	-3.84	15.17	34.77
			H	18.82	5.08	-3.84	20.05	34.77
	715.3	23173	V	12.03	5.09	-3.87	13.26	34.77
			H	19.41	5.09	-3.87	20.64	34.77

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 3M QPSK RB: 1,0	700.5	23025	V	14.46	5.05	-3.82	15.69	34.77
			H	18.86	5.05	-3.82	20.09	34.77
	707.5	23095	V	15.54	5.07	-3.84	16.77	34.77
			H	19.83	5.07	-3.84	21.06	34.77
714.5	23165	V	14.55	5.09	-3.86	15.78	34.77	
		H	20.40	5.09	-3.86	21.62	34.77	
LTE BAND 12 BW: 3M QPSK RB: 1,14	700.5	23025	V	15.67	5.06	-3.83	16.91	34.77
			H	20.06	5.06	-3.83	21.30	34.77
	707.5	23095	V	16.55	5.08	-3.85	17.78	34.77
			H	21.42	5.08	-3.85	22.65	34.77
714.5	23165	V	15.90	5.09	-3.87	17.12	34.77	
		H	21.51	5.09	-3.87	<b>22.74</b>	34.77	
LTE BAND 12 BW: 3M 16QAM RB: 1,0	700.5	23025	V	14.30	5.05	-3.82	15.54	34.77
			H	18.96	5.05	-3.82	20.20	34.77
	707.5	23095	V	15.66	5.07	-3.84	16.90	34.77
			H	20.15	5.07	-3.84	21.38	34.77
714.5	23165	V	14.74	5.09	-3.86	15.97	34.77	
		H	20.42	5.09	-3.86	21.64	34.77	
LTE BAND 12 BW: 3M 16QAM RB: 1,14	700.5	23025	V	15.70	5.06	-3.82	16.94	34.77
			H	19.75	5.06	-3.82	20.99	34.77
	707.5	23095	V	16.66	5.08	-3.85	17.89	34.77
			H	21.50	5.08	-3.85	<b>22.73</b>	34.77
714.5	23165	V	16.16	5.09	-3.87	17.39	34.77	
		H	21.18	5.09	-3.87	22.40	34.77	
LTE BAND 12 BW: 3M 64QAM RB: 1,0	700.5	23025	V	8.54	5.05	-3.82	9.77	34.77
			H	14.91	5.05	-3.82	16.15	34.77
	707.5	23095	V	10.32	5.07	-3.84	11.55	34.77
			H	17.20	5.07	-3.84	18.44	34.77
714.5	23165	V	10.76	5.09	-3.86	11.99	34.77	
		H	17.78	5.09	-3.86	19.00	34.77	
LTE BAND 12 BW: 3M 64QAM RB: 1,14	700.5	23025	V	10.28	5.06	-3.83	11.52	34.77
			H	16.85	5.06	-3.83	18.08	34.77
	707.5	23095	V	11.94	5.08	-3.85	13.17	34.77
			H	18.65	5.08	-3.84	19.88	34.77
714.5	23165	V	11.89	5.09	-3.87	13.11	34.77	
		H	19.43	5.09	-3.87	<b>20.65</b>	34.77	

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 5M QPSK RB: 1,0	701.5	23035	V	13.85	5.05	-3.82	15.09	34.77
			H	18.92	5.05	-3.82	20.16	34.77
	707.5	23095	V	16.65	5.07	-3.84	17.89	34.77
			H	21.15	5.07	-3.84	22.39	34.77
	713.5	23155	V	15.42	5.08	-3.86	16.65	34.77
			H	20.59	5.08	-3.86	21.82	34.77
LTE BAND 12 BW: 5M QPSK RB: 1,24	701.5	23035	V	16.59	5.07	-3.83	17.83	34.77
			H	20.79	5.07	-3.83	22.03	34.77
	707.5	23095	V	16.31	5.08	-3.85	17.54	34.77
			H	21.26	5.08	-3.85	22.49	34.77
	713.5	23155	V	16.01	5.09	-3.87	17.23	34.77
			H	21.70	5.09	-3.87	22.93	34.77
LTE BAND 12 BW: 5M 16QAM RB: 1,0	701.5	23035	V	14.29	5.06	-3.82	15.53	34.77
			H	18.95	5.06	-3.82	20.18	34.77
	707.5	23095	V	16.69	5.07	-3.84	17.93	34.77
			H	21.29	5.07	-3.84	22.53	34.77
	713.5	23155	V	15.12	5.08	-3.85	16.35	34.77
			H	20.74	5.08	-3.85	21.96	34.77
LTE BAND 12 BW: 5M 16QAM RB: 1,24	701.5	23035	V	16.71	5.07	-3.83	17.95	34.77
			H	21.01	5.07	-3.83	22.24	34.77
	707.5	23095	V	16.43	5.08	-3.85	17.66	34.77
			H	21.44	5.08	-3.85	22.67	34.77
	713.5	23155	V	15.94	5.09	-3.87	17.16	34.77
			H	21.42	5.09	-3.87	22.65	34.77
LTE BAND 12 BW: 5M 64QAM RB: 1,0	701.5	23035	V	8.25	5.06	-3.82	9.49	34.77
			H	14.94	5.05	-3.82	16.17	34.77
	707.5	23095	V	10.97	5.07	-3.83	12.21	34.77
			H	17.93	5.07	-3.83	19.17	34.77
	713.5	23155	V	11.10	5.07	-3.84	12.33	34.77
			H	18.18	5.07	-3.84	19.42	34.77
LTE BAND 12 BW: 5M 64QAM RB: 1,24	701.5	23035	V	11.75	5.08	-3.85	12.98	34.77
			H	18.73	5.08	-3.85	19.96	34.77
	707.5	23095	V	10.99	5.08	-3.86	12.21	34.77
			H	17.99	5.08	-3.86	19.22	34.77
	713.5	23155	V	11.48	5.09	-3.87	12.70	34.77
			H	19.39	5.09	-3.87	20.61	34.77

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 10M QPSK RB: 1,0	704.0	23060	V	14.56	5.06	-3.82	15.79	34.77
			H	18.98	5.06	-3.82	20.21	34.77
	707.5	23095	V	16.24	5.07	-3.83	17.47	34.77
			H	20.47	5.07	-3.83	21.70	34.77
	711.0	23130	V	16.32	5.07	-3.84	17.55	34.77
			H	21.20	5.07	-3.84	<b>22.43</b>	34.77
LTE BAND 12 BW: 10M QPSK RB: 1,49	704.0	23060	V	14.40	5.08	-3.85	15.63	34.77
			H	19.00	5.08	-3.85	20.24	34.77
	707.5	23095	V	14.82	5.08	-3.86	16.05	34.77
			H	20.47	5.08	-3.86	21.69	34.77
	711.0	23130	V	15.09	5.09	-3.87	16.31	34.77
			H	20.90	5.09	-3.87	22.13	34.77
LTE BAND 12 BW: 10M 16QAM RB: 1,0	704.0	23060	V	14.25	5.06	-3.82	15.49	34.77
			H	18.91	5.06	-3.82	20.15	34.77
	707.5	23095	V	16.14	5.07	-3.83	17.37	34.77
			H	20.58	5.07	-3.83	21.82	34.77
	711.0	23130	V	15.40	5.07	-3.84	16.63	34.77
			H	20.08	5.07	-3.84	21.31	34.77
LTE BAND 12 BW: 10M 16QAM RB: 1,49	704.0	23060	V	16.58	5.08	-3.85	17.81	34.77
			H	21.27	5.08	-3.85	22.50	34.77
	707.5	23095	V	15.22	5.08	-3.86	16.45	34.77
			H	20.60	5.08	-3.86	21.83	34.77
	711.0	23130	V	15.67	5.09	-3.87	16.89	34.77
			H	21.48	5.09	-3.87	<b>22.70</b>	34.77
LTE BAND 12 BW: 10M 64QAM RB: 1,0	704.0	23060	V	8.16	5.05	-3.82	9.39	34.77
			H	15.07	5.05	-3.82	16.31	34.77
	707.5	23095	V	10.67	5.07	-3.83	11.91	34.77
			H	17.71	5.07	-3.83	18.95	34.77
	711.0	23130	V	10.16	5.07	-3.84	11.40	34.77
			H	17.26	5.07	-3.84	18.50	34.77
LTE BAND 12 BW: 10M 64QAM RB: 1,49	704.0	23060	V	11.64	5.08	-3.85	12.87	34.77
			H	18.66	5.08	-3.84	19.89	34.77
	707.5	23095	V	10.63	5.08	-3.86	11.85	34.77
			H	17.88	5.08	-3.86	19.10	34.77
	711.0	23130	V	11.25	5.09	-3.87	12.48	34.77
			H	19.25	5.09	-3.87	<b>20.48</b>	34.77

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 13 BW: 5M QPSK RB: 1,0	779.5	23205	V	16.94	5.19	-4.04	18.09	34.77
			H	26.11	5.19	-4.04	27.26	34.77
	782.0	23230	V	18.91	5.20	-4.05	20.06	34.77
			H	26.39	5.20	-4.05	27.53	34.77
	784.5	23255	V	18.78	5.20	-4.06	19.91	34.77
			H	25.56	5.20	-4.06	26.70	34.77
LTE BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	18.81	5.20	-4.06	19.95	34.77
			H	25.57	5.20	-4.06	26.71	34.77
	782.0	23230	V	18.47	5.20	-4.07	19.60	34.77
			H	26.29	5.20	-4.07	27.43	34.77
	784.5	23255	V	18.55	5.20	-4.08	19.68	34.77
			H	26.04	5.20	-4.08	27.17	34.77
LTE BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	18.63	5.19	-4.04	19.78	34.77
			H	26.13	5.19	-4.04	27.28	34.77
	782.0	23230	V	18.92	5.20	-4.05	20.06	34.77
			H	26.51	5.20	-4.05	27.66	34.77
	784.5	23255	V	18.56	5.20	-4.06	19.70	34.77
			H	26.29	5.20	-4.06	27.43	34.77
LTE BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	18.91	5.20	-4.06	20.05	34.77
			H	26.39	5.20	-4.06	27.54	34.77
	782.0	23230	V	18.52	5.20	-4.06	19.65	34.77
			H	26.39	5.20	-4.06	27.53	34.77
	784.5	23255	V	18.57	5.20	-4.07	19.70	34.77
			H	26.01	5.20	-4.07	27.14	34.77
LTE BAND 13 BW: 5M 64QAM RB: 1,0	779.5	23205	V	17.80	5.19	-4.04	18.96	34.77
			H	14.64	5.19	-4.04	15.79	34.77
	782.0	23230	V	18.73	5.20	-4.05	19.88	34.77
			H	15.91	5.20	-4.05	17.06	34.77
	784.5	23255	V	18.51	5.20	-4.06	19.65	34.77
			H	16.32	5.20	-4.06	17.46	34.77
LTE BAND 13 BW: 5M 64QAM RB: 1,24	779.5	23205	V	18.40	5.20	-4.05	19.55	34.77
			H	15.97	5.20	-4.05	17.11	34.77
	782.0	23230	V	18.47	5.20	-4.06	19.61	34.77
			H	16.05	5.20	-4.06	17.19	34.77
	784.5	23255	V	18.17	5.20	-4.07	19.30	34.77
			H	15.99	5.20	-4.08	17.12	34.77

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
LTE BAND 13 BW: 10M	MHz		V/H	dBm	dBd	dB	dBm	dBm
QPSK RB: 1,0	782.0	23230	V	18.68	5.19	-4.04	19.83	34.77
			H	26.26	5.19	-4.04	<b>27.41</b>	34.77
QPSK RB: 1,49	782.0	23230	V	18.49	5.20	-4.08	19.62	34.77
			H	26.02	5.20	-4.08	27.15	34.77
16QAM RB: 1,0	782.0	23230	V	18.69	5.19	-4.04	19.84	34.77
			H	26.23	5.19	-4.04	<b>27.38</b>	34.77
16QAM RB: 1,49	782.0	23230	V	18.59	5.20	-4.07	19.72	34.77
			H	25.67	5.20	-4.07	26.80	34.77
64QAM RB: 1,0	782.0	23230	V	18.21	5.19	-4.04	<b>19.36</b>	34.77
			H	14.33	5.19	-4.04	15.48	34.77
64QAM RB: 1,49	782.0	23230	V	18.13	5.20	-4.07	19.26	34.77
			H	15.95	5.20	-4.07	17.07	34.77

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 17 BW: 5M QPSK RB: 1,0	706.5	23755	V	10.71	5.07	-3.83	11.94	24.77
			H	17.92	5.07	-3.83	<b>19.15</b>	24.77
	710.0	23790	V	11.39	5.08	-3.84	12.62	24.77
			H	16.33	5.08	-3.84	17.57	24.77
	713.5	23825	V	11.54	5.08	-3.85	12.77	24.77
			H	14.13	5.08	-3.85	15.36	24.77
LTE BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	10.84	5.08	-3.84	12.07	24.77
			H	15.77	5.08	-3.85	17.00	24.77
	710.0	23790	V	11.14	5.09	-3.86	12.37	24.77
			H	15.95	5.09	-3.86	17.18	24.77
	713.5	23825	V	12.40	5.09	-3.87	13.62	24.77
			H	14.44	5.09	-3.87	15.66	24.77
LTE BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	13.01	5.07	-3.83	14.25	24.77
			H	17.95	5.07	-3.83	<b>19.19</b>	24.77
	710.0	23790	V	11.29	5.08	-3.84	12.53	24.77
			H	16.28	5.08	-3.84	17.51	24.77
	713.5	23825	V	11.62	5.08	-3.85	12.85	24.77
			H	16.11	5.08	-3.86	17.34	24.77
LTE BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	13.05	5.08	-3.84	14.28	24.77
			H	16.13	5.08	-3.85	17.36	24.77
	710.0	23790	V	11.25	5.08	-3.86	12.48	24.77
			H	15.95	5.09	-3.86	17.18	24.77
	713.5	23825	V	12.49	5.09	-3.87	13.71	24.77
			H	14.55	5.09	-3.87	15.77	24.77
LTE BAND 17 BW: 5M 64QAM RB: 1,0	706.5	23755	V	12.92	5.07	-3.83	14.16	24.77
			H	17.83	5.07	-3.83	<b>19.06</b>	24.77
	710.0	23790	V	11.33	5.08	-3.84	12.56	24.77
			H	16.29	5.08	-3.84	17.53	24.77
	713.5	23825	V	11.57	5.08	-3.85	12.80	24.77
			H	16.44	5.08	-3.85	17.67	24.77
LTE BAND 17 BW: 5M 64QAM RB: 1,24	706.5	23755	V	12.93	5.08	-3.85	14.16	24.77
			H	17.69	5.08	-3.84	18.92	24.77
	710.0	23790	V	11.32	5.08	-3.86	12.55	24.77
			H	16.26	5.08	-3.84	17.49	24.77
	713.5	23825	V	12.10	5.09	-3.87	13.33	24.77
			H	16.95	5.09	-3.87	18.17	24.77

Remark : <sup>2</sup>A for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 17 BW: 10M QPSK RB: 1,0	709.0	23780	V	11.62	5.07	-3.83	12.85	24.77
			H	15.27	5.07	-3.83	16.51	24.77
	710.0	23790	V	7.89	5.07	-3.84	9.12	24.77
			H	10.15	5.07	-3.84	11.39	24.77
	711.0	23800	V	4.86	5.07	-3.84	6.10	24.77
			H	6.07	5.07	-3.84	7.30	24.77
LTE BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	11.19	5.09	-3.86	12.41	24.77
			H	13.46	5.09	-3.86	14.69	24.77
	710.0	23790	V	6.80	5.09	-3.86	8.02	24.77
			H	8.24	5.09	-3.86	9.46	24.77
	711.0	23800	V	12.73	5.09	-3.87	13.95	24.77
			H	14.21	5.09	-3.87	15.43	24.77
LTE BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	11.20	5.07	-3.84	12.44	24.77
			H	16.22	5.07	-3.83	17.46	24.77
	710.0	23790	V	8.66	5.07	-3.84	9.89	24.77
			H	8.75	5.07	-3.84	9.99	24.77
	711.0	23800	V	5.73	5.07	-3.84	6.96	24.77
			H	6.31	5.07	-3.84	7.54	24.77
LTE BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	11.20	5.09	-3.86	12.43	24.77
			H	15.22	5.09	-3.86	16.45	24.77
	710.0	23790	V	7.87	5.09	-3.86	9.10	24.77
			H	6.53	5.09	-3.86	7.75	24.77
	711.0	23800	V	3.45	5.09	-3.87	4.68	24.77
			H	5.35	5.09	-3.87	6.58	24.77
LTE BAND 17 BW: 10M 64QAM RB: 1,0	709.0	23780	V	12.47	5.07	-3.83	13.71	24.77
			H	16.26	5.07	-3.83	17.50	24.77
	710.0	23790	V	9.66	5.07	-3.84	10.89	24.77
			H	9.32	5.07	-3.84	10.55	24.77
	711.0	23800	V	7.32	5.07	-3.84	8.55	24.77
			H	8.56	5.07	-3.84	9.80	24.77
LTE BAND 17 BW: 10M 64QAM RB: 1,49	709.0	23780	V	11.26	5.09	-3.86	12.48	24.77
			H	15.72	5.09	-3.86	16.95	24.77
	710.0	23790	V	8.66	5.09	-3.86	9.89	24.77
			H	7.53	5.09	-3.87	8.76	24.77
	711.0	23800	V	4.28	5.09	-3.86	5.51	24.77
			H	6.99	5.09	-3.87	8.21	24.77

Remark : <sup>2</sup>A for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 1.4M QPSK RB: 1,0	1850.7	26047	V	11.67	9.57	-6.86	14.39	33.01
			H	13.78	9.57	-6.86	16.49	33.01
	1882.5	26365	V	11.66	9.71	-6.92	14.44	33.01
			H	13.96	9.71	-6.92	16.75	33.01
	1914.3	26683	V	7.75	9.84	-6.98	10.61	33.01
			H	10.94	9.84	-6.98	13.81	33.01
LTE BAND 25 BW: 1.4M QPSK RB: 1,5	1850.7	26047	V	11.43	9.58	-6.86	14.15	33.01
			H	14.78	9.58	-6.86	17.50	33.01
	1882.5	26365	V	11.55	9.71	-6.92	14.34	33.01
			H	14.73	9.71	-6.92	17.53	33.01
	1914.3	26683	V	7.13	9.84	-6.98	10.00	33.01
			H	10.98	9.84	-6.98	13.84	33.01
LTE BAND 25 BW: 1.4M 16QAM RB: 1,0	1850.7	26047	V	11.66	9.57	-6.86	14.38	33.01
			H	13.39	9.57	-6.86	16.11	33.01
	1882.5	26365	V	11.82	9.71	-6.92	14.61	33.01
			H	13.92	9.70	-6.92	16.71	33.01
	1914.3	26683	V	7.83	9.84	-6.98	10.69	33.01
			H	10.21	9.84	-6.98	13.08	33.01
LTE BAND 25 BW: 1.4M 16QAM RB: 1,5	1850.7	26047	V	11.43	9.58	-6.86	14.15	33.01
			H	14.55	9.57	-6.86	17.27	33.01
	1882.5	26365	V	11.35	9.71	-6.92	14.14	33.01
			H	14.06	9.71	-6.92	16.85	33.01
	1914.3	26683	V	7.48	9.84	-6.98	10.35	33.01
			H	10.38	9.84	-6.98	13.25	33.01
LTE BAND 25 BW: 1.4M 64QAM RB: 1,0	1850.7	26047	V	11.22	9.57	-6.86	13.94	33.01
			H	13.95	9.57	-6.86	16.67	33.01
	1882.5	26365	V	11.45	9.71	-6.92	14.24	33.01
			H	13.79	9.70	-6.92	16.58	33.01
	1914.3	26683	V	7.46	9.84	-6.98	10.33	33.01
			H	9.55	9.84	-6.98	12.42	33.01
LTE BAND 25 BW: 1.4M 64QAM RB: 1,5	1850.7	26047	V	11.23	9.58	-6.86	13.95	33.01
			H	13.87	9.58	-6.86	16.59	33.01
	1882.5	26365	V	11.42	9.71	-6.92	14.21	33.01
			H	13.71	9.71	-6.92	16.51	33.01
	1914.3	26683	V	7.89	9.84	-6.98	10.76	33.01
			H	9.99	9.84	-6.98	12.85	33.01

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 3M QPSK RB: 1,0	1851.5	26055	V	11.37	9.57	-6.86	14.09	33.01
			H	13.52	9.57	-6.86	16.24	33.01
	1882.5	26365	V	10.99	9.70	-6.91	13.78	33.01
			H	13.24	9.70	-6.92	16.03	33.01
	1913.5	26675	V	7.73	9.84	-6.97	10.59	33.01
			H	9.97	9.83	-6.97	12.83	33.01
LTE BAND 25 BW: 3M QPSK RB: 1,14	1851.5	26055	V	11.33	9.58	-6.86	14.05	33.01
			H	13.74	9.58	-6.86	16.46	33.01
	1882.5	26365	V	11.01	9.72	-6.92	13.81	33.01
			H	13.71	9.71	-6.92	<b>16.50</b>	33.01
	1913.5	26675	V	10.53	9.84	-6.98	13.39	33.01
			H	10.31	9.84	-6.98	13.18	33.01
LTE BAND 25 BW: 3M 16QAM RB: 1,0	1851.5	26055	V	11.05	9.57	-6.86	13.77	33.01
			H	14.03	9.57	-6.86	<b>16.75</b>	33.01
	1882.5	26365	V	11.08	9.70	-6.91	13.87	33.01
			H	13.58	9.70	-6.92	16.37	33.01
	1913.5	26675	V	7.68	9.83	-6.97	10.54	33.01
			H	10.05	9.83	-6.97	12.92	33.01
LTE BAND 25 BW: 3M 16QAM RB: 1,14	1851.5	26055	V	11.34	9.58	-6.86	14.06	33.01
			H	13.20	9.58	-6.86	15.92	33.01
	1882.5	26365	V	11.03	9.71	-6.92	13.82	33.01
			H	12.93	9.71	-6.92	15.72	33.01
	1913.5	26675	V	7.36	9.84	-6.98	10.23	33.01
			H	9.84	9.85	-6.98	12.71	33.01
LTE BAND 25 BW: 3M 64QAM RB: 1,0	1851.5	26055	V	11.20	9.57	-6.86	13.91	33.01
			H	13.49	9.57	-6.86	<b>16.21</b>	33.01
	1882.5	26365	V	11.08	9.70	-6.92	13.87	33.01
			H	13.22	9.70	-6.91	16.00	33.01
	1913.5	26675	V	7.70	9.84	-6.97	10.57	33.01
			H	10.04	9.83	-6.97	12.90	33.01
LTE BAND 25 BW: 3M 64QAM RB: 1,14	1851.5	26055	V	11.47	9.58	-6.86	14.19	33.01
			H	13.25	9.58	-6.86	15.98	33.01
	1882.5	26365	V	11.05	9.72	-6.92	13.85	33.01
			H	12.99	9.71	-6.92	15.79	33.01
	1913.5	26675	V	7.19	9.84	-6.98	10.05	33.01
			H	9.77	9.84	-6.98	12.64	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 5M QPSK RB: 1,0	1852.5	26065	V	11.24	9.57	-6.86	13.95	33.01
			H	13.44	9.57	-6.86	<b>16.16</b>	33.01
	1882.5	26365	V	11.14	9.70	-6.91	13.92	33.01
			H	13.15	9.70	-6.91	15.94	33.01
	1912.5	26665	V	8.51	9.83	-6.97	11.36	33.01
			H	10.80	9.83	-6.97	13.66	33.01
LTE BAND 25 BW: 5M QPSK RB: 1,24	1852.5	26065	V	11.55	9.59	-6.86	14.28	33.01
			H	13.25	9.59	-6.86	15.98	33.01
	1882.5	26365	V	10.87	9.72	-6.92	13.67	33.01
			H	12.87	9.72	-6.92	15.67	33.01
	1912.5	26665	V	7.38	9.84	-6.98	10.24	33.01
			H	9.86	9.84	-6.98	12.73	33.01
LTE BAND 25 BW: 5M 16QAM RB: 1,0	1852.5	26065	V	11.31	9.57	-6.86	14.02	33.01
			H	13.43	9.57	-6.86	<b>16.14</b>	33.01
	1882.5	26365	V	11.15	9.70	-6.91	13.93	33.01
			H	13.17	9.70	-6.91	15.96	33.01
	1912.5	26665	V	8.65	9.83	-6.97	11.50	33.01
			H	10.88	9.82	-6.97	13.74	33.01
LTE BAND 25 BW: 5M 16QAM RB: 1,24	1852.5	26065	V	11.65	9.59	-6.86	14.37	33.01
			H	13.22	9.59	-6.86	15.95	33.01
	1882.5	26365	V	10.88	9.72	-6.92	13.68	33.01
			H	12.86	9.72	-6.92	15.65	33.01
	1912.5	26665	V	7.38	9.84	-6.98	10.25	33.01
			H	9.78	9.85	-6.98	12.65	33.01
LTE BAND 25 BW: 5M 64QAM RB: 1,0	1852.5	26065	V	11.30	9.57	-6.86	14.02	33.01
			H	13.42	9.57	-6.86	<b>16.14</b>	33.01
	1882.5	26365	V	11.12	9.70	-6.91	13.90	33.01
			H	13.09	9.70	-6.91	15.88	33.01
	1912.5	26665	V	8.74	9.82	-6.97	11.59	33.01
			H	10.86	9.82	-6.97	13.71	33.01
LTE BAND 25 BW: 5M 64QAM RB: 1,24	1852.5	26065	V	11.44	9.59	-6.86	14.17	33.01
			H	13.35	9.59	-6.87	16.07	33.01
	1882.5	26365	V	10.78	9.72	-6.92	13.57	33.01
			H	12.83	9.72	-6.92	15.63	33.01
	1912.5	26665	V	7.28	9.84	-6.98	10.14	33.01
			H	9.71	9.84	-6.98	12.58	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 10M QPSK RB: 1,0	1855.0	26090	V	14.79	9.57	-6.86	17.50	33.01
			H	18.54	9.57	-6.86	21.25	33.01
	1882.5	26365	V	14.50	9.69	-6.91	17.28	33.01
			H	18.31	9.69	-6.91	21.09	33.01
	1910.0	26640	V	13.12	9.80	-6.96	15.96	33.01
			H	17.74	9.80	-6.96	20.58	33.01
LTE BAND 25 BW: 10M QPSK RB: 1,49	1855.0	26090	V	14.78	9.61	-6.87	17.52	33.01
			H	17.75	9.61	-6.87	20.49	33.01
	1882.5	26365	V	13.06	9.73	-6.93	15.86	33.01
			H	17.71	9.73	-6.93	20.51	33.01
	1910.0	26640	V	11.10	9.84	-6.97	13.97	33.01
			H	16.05	9.84	-6.97	18.92	33.01
LTE BAND 25 BW: 10M 16QAM RB: 1,0	1855.0	26090	V	14.71	9.57	-6.86	17.42	33.01
			H	17.59	9.57	-6.86	20.30	33.01
	1882.5	26365	V	14.68	9.69	-6.91	17.46	33.01
			H	18.28	9.69	-6.91	21.06	33.01
	1910.0	26640	V	13.09	9.80	-6.96	15.93	33.01
			H	17.84	9.80	-6.96	20.68	33.01
LTE BAND 25 BW: 10M 16QAM RB: 1,49	1855.0	26090	V	15.01	9.61	-6.87	17.75	33.01
			H	17.85	9.61	-6.87	20.59	33.01
	1882.5	26365	V	13.73	9.73	-6.93	16.53	33.01
			H	17.67	9.73	-6.93	20.47	33.01
	1910.0	26640	V	11.01	9.84	-6.98	13.87	33.01
			H	15.99	9.84	-6.98	18.85	33.01
LTE BAND 25 BW: 10M 64QAM RB: 1,0	1855.0	26090	V	14.71	9.57	-6.86	17.42	33.01
			H	17.74	9.57	-6.86	20.45	33.01
	1882.5	26365	V	14.64	9.69	-6.91	17.42	33.01
			H	18.35	9.69	-6.91	21.13	33.01
	1910.0	26640	V	13.06	9.81	-6.96	15.91	33.01
			H	17.82	9.81	-6.96	20.67	33.01
LTE BAND 25 BW: 10M 64QAM RB: 1,49	1855.0	26090	V	15.01	9.61	-6.87	17.75	33.01
			H	18.13	9.61	-6.87	20.87	33.01
	1882.5	26365	V	13.64	9.73	-6.93	16.44	33.01
			H	17.69	9.73	-6.93	20.49	33.01
	1910.0	26640	V	10.99	9.84	-6.98	13.85	33.01
			H	16.00	9.84	-6.98	18.86	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 15M QPSK RB: 1,0	1857.5	26115	V	14.47	9.58	-6.86	17.19	33.01
			H	17.96	9.58	-6.86	20.68	33.01
	1882.5	26365	V	14.17	9.68	-6.91	16.94	33.01
			H	17.98	9.68	-6.91	20.75	33.01
	1907.5	26615	V	13.36	9.78	-6.95	16.19	33.01
			H	17.42	9.78	-6.95	20.25	33.01
LTE BAND 25 BW: 15M QPSK RB: 1,74	1857.5	26115	V	13.93	9.63	-6.88	16.68	33.01
			H	17.49	9.63	-6.88	20.24	33.01
	1882.5	26365	V	12.77	9.74	-6.93	15.58	33.01
			H	16.93	9.74	-6.93	19.74	33.01
	1907.5	26615	V	9.80	9.84	-6.98	12.66	33.01
			H	15.08	9.84	-6.98	17.94	33.01
LTE BAND 25 BW: 15M 16QAM RB: 1,0	1857.5	26115	V	14.10	9.57	-6.86	16.81	33.01
			H	17.64	9.57	-6.86	20.35	33.01
	1882.5	26365	V	14.19	9.68	-6.90	16.97	33.01
			H	18.13	9.68	-6.90	20.91	33.01
	1907.5	26615	V	13.11	9.78	-6.95	15.94	33.01
			H	17.46	9.78	-6.95	20.29	33.01
LTE BAND 25 BW: 15M 16QAM RB: 1,74	1857.5	26115	V	13.83	9.63	-6.88	16.58	33.01
			H	17.57	9.63	-6.88	20.32	33.01
	1882.5	26365	V	12.80	9.73	-6.93	15.60	33.01
			H	17.08	9.73	-6.93	19.88	33.01
	1907.5	26615	V	10.69	9.84	-6.98	13.55	33.01
			H	15.21	9.84	-6.98	18.07	33.01
LTE BAND 25 BW: 15M 64QAM RB: 1,0	1857.5	26115	V	14.10	9.57	-6.86	16.81	33.01
			H	17.64	9.57	-6.86	20.35	33.01
	1882.5	26365	V	14.21	9.68	-6.90	16.99	33.01
			H	18.18	9.68	-6.90	20.96	33.01
	1907.5	26615	V	13.21	9.79	-6.95	16.05	33.01
			H	17.50	9.79	-6.95	20.34	33.01
LTE BAND 25 BW: 15M 64QAM RB: 1,74	1857.5	26115	V	13.81	9.63	-6.88	16.56	33.01
			H	17.68	9.63	-6.88	20.43	33.01
	1882.5	26365	V	12.85	9.74	-6.93	15.66	33.01
			H	17.15	9.74	-6.93	19.96	33.01
	1907.5	26615	V	10.70	9.84	-6.97	13.57	33.01
			H	15.23	9.84	-6.97	18.10	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 20M QPSK RB: 1,0	1860.0	26140	V	14.15	9.57	-6.86	16.86	33.01
			H	14.94	9.57	-6.86	17.65	33.01
	1882.5	26365	V	14.60	9.67	-6.90	17.37	33.01
			H	14.41	9.67	-6.90	17.18	33.01
	1905.0	26590	V	13.63	9.76	-6.94	16.45	33.01
			H	14.80	9.76	-6.94	17.62	33.01
LTE BAND 25 BW: 20M QPSK RB: 1,99	1860.0	26140	V	14.30	9.65	-6.89	17.06	33.01
			H	14.02	9.65	-6.89	16.78	33.01
	1882.5	26365	V	12.62	9.74	-6.93	15.43	33.01
			H	14.99	9.74	-6.93	<b>17.80</b>	33.01
	1905.0	26590	V	10.09	9.84	-6.97	12.96	33.01
			H	10.76	9.84	-6.97	13.63	33.01
LTE BAND 25 BW: 20M 16QAM RB: 1,0	1860.0	26140	V	14.14	9.57	-6.86	16.85	33.01
			H	14.94	9.57	-6.86	17.65	33.01
	1882.5	26365	V	14.15	9.67	-6.90	16.92	33.01
			H	14.44	9.67	-6.90	17.21	33.01
	1905.0	26590	V	13.56	9.77	-6.94	16.39	33.01
			H	14.80	9.77	-6.94	17.63	33.01
LTE BAND 25 BW: 20M 16QAM RB: 1,99	1860.0	26140	V	14.36	9.65	-6.89	17.12	33.01
			H	14.04	9.65	-6.89	16.80	33.01
	1882.5	26365	V	12.89	9.74	-6.93	15.70	33.01
			H	15.09	9.74	-6.93	<b>17.90</b>	33.01
	1905.0	26590	V	10.33	9.84	-6.98	13.19	33.01
			H	11.10	9.84	-6.98	13.96	33.01
LTE BAND 25 BW: 20M 64QAM RB: 1,0	1860.0	26140	V	14.14	9.58	-6.86	16.86	33.01
			H	14.93	9.58	-6.86	17.65	33.01
	1882.5	26365	V	14.24	9.67	-6.90	17.01	33.01
			H	14.48	9.67	-6.90	17.25	33.01
	1905.0	26590	V	13.65	9.77	-6.94	16.48	33.01
			H	14.93	9.77	-6.94	17.76	33.01
LTE BAND 25 BW: 20M 64QAM RB: 1,99	1860.0	26140	V	14.61	9.65	-6.89	17.37	33.01
			H	14.35	9.65	-6.89	17.11	33.01
	1882.5	26365	V	13.00	9.75	-6.94	15.81	33.01
			H	15.06	9.75	-6.94	<b>17.87</b>	33.01
	1905.0	26590	V	10.45	9.84	-6.98	13.31	33.01
			H	10.96	9.84	-6.98	13.82	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT Operation Band	Fundamental Frequency MHz	CH	Measurement					
			Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	ERP dBm	Limit dBm
LTE BAND 26 BW: 1.4M QPSK RB: 1,0	824.7	26797	V	17.79	5.14	-5.43	17.49	38.50
			H	25.05	5.14	-5.43	24.76	38.50
	836.5	26915	V	20.26	5.10	-5.47	19.90	38.50
			H	27.92	5.10	-5.47	27.55	38.50
	848.3	27033	V	19.20	5.07	-5.49	18.78	38.50
			H	21.49	5.07	-5.50	21.07	38.50
LTE BAND 26 BW: 1.4M QPSK RB: 1,5	824.7	26797	V	19.75	5.12	-5.45	19.41	38.50
			H	27.37	5.12	-5.45	27.04	38.50
	836.5	26915	V	12.77	5.09	-5.47	12.39	38.50
			H	20.36	5.09	-5.47	19.98	38.50
	848.3	27033	V	13.46	5.07	-5.50	13.04	38.50
			H	20.35	5.07	-5.50	19.92	38.50
LTE BAND 26 BW: 1.4M 16QAM RB: 1,0	824.7	26797	V	19.60	5.12	-5.45	19.27	38.50
			H	27.15	5.12	-5.44	26.83	38.50
	836.5	26915	V	12.73	5.10	-5.47	12.36	38.50
			H	20.10	5.10	-5.47	19.73	38.50
	848.3	27033	V	20.37	5.07	-5.49	19.95	38.50
			H	27.43	5.07	-5.49	27.01	38.50
LTE BAND 26 BW: 1.4M 16QAM RB: 1,5	824.7	26797	V	19.89	5.12	-5.45	19.56	38.50
			H	27.50	5.12	-5.45	27.17	38.50
	836.5	26915	V	12.94	5.10	-5.47	12.57	38.50
			H	20.28	5.09	-5.47	19.91	38.50
	848.3	27033	V	13.75	5.07	-5.50	13.33	38.50
			H	20.77	5.07	-5.49	20.35	38.50
LTE BAND 26 BW: 1.4M 64QAM RB: 1,0	824.7	26797	V	20.83	5.13	-5.43	20.54	38.50
			H	16.94	5.14	-5.43	16.65	38.50
	836.5	26915	V	22.85	5.11	-5.45	22.50	38.50
			H	19.51	5.11	-5.45	19.17	38.50
	848.3	27033	V	14.13	5.06	-5.51	13.68	38.50
			H	14.64	5.06	-5.51	14.19	38.50
LTE BAND 26 BW: 1.4M 64QAM RB: 1,5	824.7	26797	V	17.16	5.13	-5.43	16.86	38.50
			H	14.97	5.13	-5.43	14.67	38.50
	836.5	26915	V	14.57	5.10	-5.47	14.20	38.50
			H	13.85	5.09	-5.47	13.47	38.50
	848.3	27033	V	14.15	5.05	-5.51	13.69	38.50
			H	14.53	5.05	-5.51	14.07	38.50

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 26 BW: 3M QPSK RB: 1,0	825.5	26805	V	18.19	5.14	-5.43	17.90	38.50
			H	25.60	5.14	-5.43	25.31	38.50
	836.5	26915	V	12.37	5.10	-5.47	12.01	38.50
			H	19.61	5.10	-5.46	19.25	38.50
	847.5	27025	V	12.77	5.06	-5.50	12.33	38.50
			H	19.52	5.06	-5.50	19.08	38.50
LTE BAND 26 BW: 3M QPSK RB: 1,14	825.5	26805	V	17.82	5.13	-5.44	17.51	38.50
			H	26.34	5.13	-5.44	<b>26.03</b>	38.50
	836.5	26915	V	13.19	5.09	-5.47	12.81	38.50
			H	20.52	5.09	-5.47	20.14	38.50
	847.5	27025	V	13.46	5.06	-5.51	13.00	38.50
			H	20.43	5.06	-5.51	19.97	38.50
LTE BAND 26 BW: 3M 16QAM RB: 1,0	825.5	26805	V	17.90	5.14	-5.43	17.61	38.50
			H	25.20	5.14	-5.43	24.91	38.50
	836.5	26915	V	11.99	5.10	-5.47	11.63	38.50
			H	19.30	5.10	-5.46	18.94	38.50
	847.5	27025	V	12.30	5.06	-5.50	11.86	38.50
			H	19.36	5.07	-5.50	18.92	38.50
LTE BAND 26 BW: 3M 16QAM RB: 1,14	825.5	26805	V	19.16	5.13	-5.44	18.85	38.50
			H	26.14	5.13	-5.44	<b>25.84</b>	38.50
	836.5	26915	V	13.35	5.09	-5.47	12.97	38.50
			H	19.91	5.09	-5.47	19.53	38.50
	847.5	27025	V	14.07	5.05	-5.51	13.61	38.50
			H	20.41	5.06	-5.51	19.96	38.50
LTE BAND 26 BW: 3M 64QAM RB: 1,0	825.5	26805	V	19.21	5.14	-5.43	<b>18.92</b>	38.50
			H	17.01	5.14	-5.43	16.73	38.50
	836.5	26915	V	16.65	5.10	-5.46	16.29	38.50
			H	15.68	5.10	-5.46	15.32	38.50
	847.5	27025	V	18.26	5.07	-5.50	17.82	38.50
			H	16.38	5.06	-5.50	15.94	38.50
LTE BAND 26 BW: 3M 64QAM RB: 1,14	825.5	26805	V	18.72	5.13	-5.44	18.41	38.50
			H	18.06	5.13	-5.44	17.76	38.50
	836.5	26915	V	17.23	5.09	-5.47	16.85	38.50
			H	16.46	5.09	-5.47	16.07	38.50
	847.5	27025	V	17.14	5.06	-5.51	16.69	38.50
			H	15.12	5.06	-5.51	14.66	38.50

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 26 BW: 5M QPSK RB: 1,0	826.5	26815	V	18.00	5.14	-5.43	17.70	38.50
			H	25.25	5.14	-5.43	24.96	38.50
	836.5	26915	V	11.98	5.10	-5.46	11.63	38.50
			H	19.24	5.10	-5.46	18.88	38.50
	846.5	27015	V	13.37	5.07	-5.50	12.94	38.50
			H	19.94	5.07	-5.50	19.51	38.50
LTE BAND 26 BW: 5M QPSK RB: 1,24	826.5	26815	V	19.81	5.12	-5.45	19.49	38.50
			H	26.48	5.12	-5.45	<b>26.16</b>	38.50
	836.5	26915	V	13.60	5.09	-5.47	13.22	38.50
			H	20.63	5.09	-5.48	20.25	38.50
	846.5	27015	V	13.91	5.06	-5.51	13.46	38.50
			H	20.24	5.06	-5.51	19.79	38.50
LTE BAND 26 BW: 5M 16QAM RB: 1,0	826.5	26815	V	18.17	5.14	-5.43	17.88	38.50
			H	24.97	5.14	-5.43	24.68	38.50
	836.5	26915	V	11.98	5.10	-5.46	11.62	38.50
			H	18.68	5.10	-5.46	18.32	38.50
	846.5	27015	V	13.22	5.07	-5.49	12.80	38.50
			H	19.49	5.07	-5.50	19.06	38.50
LTE BAND 26 BW: 5M 16QAM RB: 1,24	826.5	26815	V	19.71	5.12	-5.44	19.38	38.50
			H	26.47	5.12	-5.44	<b>26.15</b>	38.50
	836.5	26915	V	13.60	5.09	-5.47	13.22	38.50
			H	20.21	5.09	-5.48	19.82	38.50
	846.5	27015	V	13.55	5.06	-5.51	13.10	38.50
			H	19.58	5.06	-5.51	19.12	38.50
LTE BAND 26 BW: 5M 64QAM RB: 1,0	826.5	26815	V	19.47	5.14	-5.42	19.18	38.50
			H	16.91	5.14	-5.43	16.62	38.50
	836.5	26915	V	15.61	5.10	-5.46	15.25	38.50
			H	15.81	5.10	-5.46	15.45	38.50
	846.5	27015	V	16.76	5.06	-5.50	16.31	38.50
			H	16.52	5.06	-5.50	16.08	38.50
LTE BAND 26 BW: 5M 64QAM RB: 1,24	826.5	26815	V	19.47	5.14	-5.43	<b>19.18</b>	38.50
			H	17.08	5.14	-5.43	16.79	38.50
	836.5	26915	V	17.06	5.09	-5.47	16.67	38.50
			H	16.40	5.09	-5.47	16.02	38.50
	846.5	27015	V	14.83	5.06	-5.51	14.38	38.50
			H	15.18	5.06	-5.51	14.73	38.50

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 26 BW: 10M QPSK RB: 1,0	829.0	26840	V	18.35	5.14	-5.43	18.06	38.50
			H	25.22	5.14	-5.43	24.93	38.50
	836.5	26915	V	11.79	5.11	-5.45	11.45	38.50
			H	26.91	5.11	-5.46	<b>26.56</b>	38.50
	844.0	26990	V	19.07	5.09	-5.48	18.68	38.50
			H	26.15	5.08	-5.48	25.75	38.50
LTE BAND 26 BW: 10M QPSK RB: 1,49	829.0	26840	V	11.37	5.11	-5.46	11.01	38.50
			H	20.70	5.11	-5.46	20.34	38.50
	836.5	26915	V	19.60	5.08	-5.48	19.20	38.50
			H	26.90	5.08	-5.48	26.50	38.50
	844.0	26990	V	12.88	5.06	-5.51	12.43	38.50
			H	19.60	5.06	-5.51	19.15	38.50
LTE BAND 26 BW: 10M 16QAM RB: 1,0	829.0	26840	V	13.30	5.13	-5.43	13.00	38.50
			H	25.71	5.14	-5.43	<b>25.42</b>	38.50
	836.5	26915	V	12.35	5.11	-5.46	12.00	38.50
			H	19.38	5.11	-5.45	19.04	38.50
	844.0	26990	V	19.38	5.09	-5.48	18.98	38.50
			H	24.97	5.09	-5.48	24.58	38.50
LTE BAND 26 BW: 10M 16QAM RB: 1,49	829.0	26840	V	11.85	5.11	-5.46	11.50	38.50
			H	18.91	5.11	-5.46	18.56	38.50
	836.5	26915	V	19.98	5.08	-5.48	19.58	38.50
			H	20.46	5.11	-5.46	20.10	38.50
	844.0	26990	V	13.22	5.06	-5.51	12.77	38.50
			H	19.49	5.06	-5.51	19.03	38.50
LTE BAND 26 BW: 10M 64QAM RB: 1,0	829.0	26840	V	19.47	5.14	-5.43	<b>19.18</b>	38.50
			H	17.02	5.13	-5.43	16.72	38.50
	836.5	26915	V	17.84	5.11	-5.46	17.49	38.50
			H	16.49	5.11	-5.46	16.14	38.50
	844.0	26990	V	17.03	5.09	-5.48	16.64	38.50
			H	16.42	5.09	-5.48	16.03	38.50
LTE BAND 26 BW: 10M 64QAM RB: 1,49	829.0	26840	V	17.65	5.11	-5.45	17.31	38.50
			H	14.85	5.11	-5.45	14.49	38.50
	836.5	26915	V	16.78	5.08	-5.48	16.39	38.50
			H	15.36	5.08	-5.48	14.96	38.50
	844.0	26990	V	14.87	5.06	-5.51	14.41	38.50
			H	17.33	5.05	-5.51	16.87	38.50

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 26 BW: 15M QPSK RB: 1,0	831.5	26865	V	18.68	5.13	-5.43	18.39	38.50
			H	20.10	5.13	-5.43	19.81	38.50
	836.5	26915	V	19.15	5.12	-5.45	18.81	38.50
			H	27.06	5.12	-5.45	<b>26.73</b>	38.50
	841.5	26965	V	12.01	5.10	-5.46	11.65	38.50
			H	20.38	5.10	-5.47	20.01	38.50
LTE BAND 26 BW: 15M QPSK RB: 1,74	831.5	26865	V	13.04	5.09	-5.47	12.66	38.50
			H	23.09	5.09	-5.47	22.71	38.50
	836.5	26915	V	13.91	5.07	-5.49	13.49	38.50
			H	25.07	5.07	-5.49	24.66	38.50
	841.5	26965	V	12.91	5.06	-5.51	12.45	38.50
			H	19.02	5.06	-5.51	18.56	38.50
LTE BAND 26 BW: 15M 16QAM RB: 1,0	831.5	26865	V	13.34	5.14	-5.43	13.05	38.50
			H	25.43	5.14	-5.43	25.13	38.50
	836.5	26915	V	20.31	5.12	-5.45	19.97	38.50
			H	27.05	5.12	-5.45	<b>26.72</b>	38.50
	841.5	26965	V	12.11	5.10	-5.46	11.75	38.50
			H	18.77	5.10	-5.46	18.41	38.50
LTE BAND 26 BW: 15M 16QAM RB: 1,74	831.5	26865	V	15.99	5.09	-5.47	15.61	38.50
			H	26.82	5.08	-5.49	26.40	38.50
	836.5	26915	V	20.26	5.07	-5.49	19.85	38.50
			H	26.82	5.07	-5.49	26.40	38.50
	841.5	26965	V	13.14	5.06	-5.51	12.69	38.50
			H	19.09	5.06	-5.51	18.64	38.50
LTE BAND 26 BW: 15M 64QAM RB: 1,0	831.5	26865	V	19.58	5.13	-5.43	<b>19.28</b>	38.50
			H	17.06	5.14	-5.43	16.77	38.50
	836.5	26915	V	18.70	5.12	-5.45	18.36	38.50
			H	17.04	5.12	-5.45	16.71	38.50
	841.5	26965	V	16.79	5.10	-5.46	16.43	38.50
			H	15.65	5.10	-5.46	15.29	38.50
LTE BAND 26 BW: 15M 64QAM RB: 1,74	831.5	26865	V	17.02	5.09	-5.47	16.63	38.50
			H	16.28	5.09	-5.47	15.89	38.50
	836.5	26915	V	15.27	5.07	-5.49	14.83	38.50
			H	14.66	5.08	-5.49	14.25	38.50
	841.5	26965	V	12.78	5.06	-5.51	12.32	38.50
			H	13.10	5.06	-5.51	12.65	38.50

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 26 BW: 1.4M QPSK RB: 1,0	814.7	26697	V	19.10	5.17	-5.39	18.88	50.00
			H	25.95	5.17	-5.39	25.73	50.00
	819.0	26740	V	11.73	5.16	-5.41	11.48	50.00
			H	18.52	5.16	-5.41	18.27	50.00
	823.3	26783	V	13.09	5.14	-5.42	12.81	50.00
			H	25.10	5.14	-5.42	24.82	50.00
LTE BAND 26 BW: 1.4M QPSK RB: 1,5	814.7	26697	V	18.92	5.17	-5.39	18.70	50.00
			H	25.82	5.17	-5.39	25.60	50.00
	819.0	26740	V	11.86	5.15	-5.41	11.60	50.00
			H	18.69	5.15	-5.41	18.43	50.00
	823.3	26783	V	18.25	5.14	-5.42	17.97	50.00
			H	25.06	5.14	-5.42	24.78	50.00
LTE BAND 26 BW: 1.4M 16QAM RB: 1,0	814.7	26697	V	15.06	5.17	-5.39	14.84	50.00
			H	25.75	5.17	-5.39	25.53	50.00
	819.0	26740	V	11.77	5.16	-5.40	11.53	50.00
			H	18.59	5.16	-5.40	18.35	50.00
	823.3	26783	V	17.91	5.14	-5.42	17.63	50.00
			H	23.96	5.14	-5.42	23.68	50.00
LTE BAND 26 BW: 1.4M 16QAM RB: 1,5	814.7	26697	V	18.06	5.17	-5.39	17.84	50.00
			H	25.26	5.17	-5.39	25.04	50.00
	819.0	26740	V	11.93	5.15	-5.41	11.67	50.00
			H	18.80	5.15	-5.41	18.54	50.00
	823.3	26783	V	17.86	5.14	-5.43	17.57	50.00
			H	19.93	5.14	-5.43	19.64	50.00
LTE BAND 26 BW: 1.4M 64QAM RB: 1,0	814.7	26697	V	20.47	5.17	-5.39	20.25	50.00
			H	16.05	5.17	-5.39	15.83	50.00
	819.0	26740	V	21.40	5.16	-5.40	21.15	50.00
			H	16.94	5.16	-5.41	16.70	50.00
	823.3	26783	V	19.74	5.14	-5.42	19.46	50.00
			H	16.69	5.14	-5.42	16.41	50.00
LTE BAND 26 BW: 1.4M 64QAM RB: 1,5	814.7	26697	V	20.90	5.17	-5.39	20.68	50.00
			H	16.39	5.17	-5.39	16.18	50.00
	819.0	26740	V	20.55	5.15	-5.41	20.30	50.00
			H	16.72	5.15	-5.41	16.47	50.00
	823.3	26783	V	19.62	5.14	-5.43	19.33	50.00
			H	16.80	5.14	-5.43	16.51	50.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 26 BW: 3M QPSK RB: 1,0	815.5	26705	V	13.21	5.17	-5.39	12.99	50.00
			H	18.99	5.17	-5.39	18.77	50.00
	819.0	26740	V	11.55	5.16	-5.40	11.31	50.00
			H	18.48	5.16	-5.40	18.24	50.00
	822.5	26775	V	12.45	5.15	-5.42	12.18	50.00
			H	19.27	5.15	-5.42	<b>19.00</b>	50.00
LTE BAND 26 BW: 3M QPSK RB: 1,14	815.5	26705	V	11.28	5.16	-5.40	11.04	50.00
			H	18.21	5.16	-5.40	17.97	50.00
	819.0	26740	V	12.05	5.15	-5.41	11.79	50.00
			H	18.94	5.15	-5.41	18.68	50.00
	822.5	26775	V	11.92	5.15	-5.42	11.65	50.00
			H	18.37	5.15	-5.42	18.10	50.00
LTE BAND 26 BW: 3M 16QAM RB: 1,0	815.5	26705	V	11.47	5.17	-5.39	11.25	50.00
			H	25.62	5.17	-5.39	<b>25.40</b>	50.00
	819.0	26740	V	11.62	5.16	-5.40	11.38	50.00
			H	18.45	5.16	-5.40	18.21	50.00
	822.5	26775	V	15.08	5.15	-5.42	14.81	50.00
			H	19.28	5.15	-5.42	19.01	50.00
LTE BAND 26 BW: 3M 16QAM RB: 1,14	815.5	26705	V	14.92	5.17	-5.40	14.69	50.00
			H	21.97	5.17	-5.40	21.74	50.00
	819.0	26740	V	15.66	5.15	-5.41	15.40	50.00
			H	18.95	5.15	-5.41	18.69	50.00
	822.5	26775	V	18.29	5.14	-5.43	18.00	50.00
			H	25.23	5.14	-5.43	24.94	50.00
LTE BAND 26 BW: 3M 64QAM RB: 1,0	815.5	26705	V	20.46	5.17	-5.39	20.24	50.00
			H	16.01	5.17	-5.39	15.79	50.00
	819.0	26740	V	21.26	5.16	-5.40	<b>21.01</b>	50.00
			H	16.93	5.16	-5.40	16.68	50.00
	822.5	26775	V	20.04	5.15	-5.42	19.77	50.00
			H	16.44	5.15	-5.42	16.17	50.00
LTE BAND 26 BW: 3M 64QAM RB: 1,14	815.5	26705	V	20.99	5.16	-5.40	20.75	50.00
			H	16.60	5.16	-5.40	16.37	50.00
	819.0	26740	V	20.21	5.15	-5.41	19.94	50.00
			H	16.38	5.15	-5.41	16.12	50.00
	822.5	26775	V	20.64	5.14	-5.43	20.35	50.00
			H	16.57	5.14	-5.43	16.28	50.00

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 26 BW: 5M QPSK RB: 1,0	816.5	26715	V	18.85	5.17	-5.39	18.63	50.00
			H	21.56	5.17	-5.39	21.34	50.00
	819.0	26740	V	10.86	5.16	-5.40	10.62	50.00
			H	17.86	5.16	-5.40	17.62	50.00
	821.5	26765	V	11.43	5.15	-5.41	11.17	50.00
			H	18.47	5.15	-5.41	18.21	50.00
LTE BAND 26 BW: 5M QPSK RB: 1,24	816.5	26715	V	14.74	5.16	-5.40	14.50	50.00
			H	21.53	5.16	-5.40	21.29	50.00
	819.0	26740	V	11.61	5.15	-5.42	11.34	50.00
			H	18.57	5.15	-5.42	18.30	50.00
	821.5	26765	V	17.64	5.14	-5.42	17.36	50.00
			H	24.77	5.14	-5.42	<b>24.49</b>	50.00
LTE BAND 26 BW: 5M 16QAM RB: 1,0	816.5	26715	V	11.17	5.17	-5.39	10.95	50.00
			H	18.00	5.17	-5.39	17.78	50.00
	819.0	26740	V	13.46	5.16	-5.40	13.22	50.00
			H	17.88	5.16	-5.40	17.64	50.00
	821.5	26765	V	13.27	5.15	-5.41	13.01	50.00
			H	18.53	5.15	-5.41	18.27	50.00
LTE BAND 26 BW: 5M 16QAM RB: 1,24	816.5	26715	V	13.91	5.16	-5.4	13.67	50.00
			H	21.51	5.16	-5.4	21.27	50.00
	819.0	26740	V	15.17	5.15	-5.42	14.90	50.00
			H	18.61	5.15	-5.42	18.34	50.00
	821.5	26765	V	17.53	5.14	-5.43	17.24	50.00
			H	24.74	5.14	-5.43	<b>24.45</b>	50.00
LTE BAND 26 BW: 5M 64QAM RB: 1,0	816.5	26715	V	20.98	5.16	-5.40	<b>20.74</b>	50.00
			H	16.61	5.16	-5.40	16.38	50.00
	819.0	26740	V	20.96	5.16	-5.40	20.72	50.00
			H	16.58	5.16	-5.40	16.35	50.00
	821.5	26765	V	20.42	5.15	-5.41	20.17	50.00
			H	16.50	5.15	-5.41	16.25	50.00
LTE BAND 26 BW: 5M 64QAM RB: 1,24	816.5	26715	V	20.84	5.16	-5.41	20.60	50.00
			H	16.73	5.16	-5.41	16.48	50.00
	819.0	26740	V	19.97	5.15	-5.42	19.70	50.00
			H	16.43	5.15	-5.41	16.16	50.00
	821.5	26765	V	19.65	5.14	-5.43	19.36	50.00
			H	16.70	5.14	-5.43	16.41	50.00

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
LTE BAND 26 BW: 10M	MHz		V/H	dBm	dBi	dB	dBm	dBm
QPSK RB: 1,0	819.0	26740	V	18.81	5.17	-5.39	18.59	50.00
			H	26.26	5.17	-5.39	<b>26.04</b>	50.00
QPSK RB: 1,49	819.0	26740	V	17.87	5.14	-5.42	17.59	50.00
			H	24.89	5.14	-5.42	24.61	50.00
16QAM RB: 1,0	819.0	26740	V	17.86	5.17	-5.39	17.64	50.00
			H	21.73	5.17	-5.39	<b>21.51</b>	50.00
16QAM RB: 1,49	819.0	26740	V	18.31	5.14	-5.42	18.03	50.00
			H	19.19	5.14	-5.42	18.91	50.00
64QAM RB: 1,0	819.0	26740	V	20.58	5.17	-5.39	<b>20.36</b>	50.00
			H	16.08	5.17	-5.39	15.86	50.00
64QAM RB: 1,49	819.0	26740	V	19.64	5.14	-5.42	19.36	50.00
			H	16.62	5.14	-5.43	16.33	50.00

Remark : ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 30 BW: 5M QPSK RB: 1,0	2307.5	27685	V	11.74	10.51	-7.59	14.66	23.99
			H	19.19	10.51	-7.59	22.11	23.99
	2310.0	27710	V	12.39	10.51	-7.59	15.31	23.99
			H	18.85	10.51	-7.59	21.76	23.99
	2312.5	27735	V	11.65	10.51	-7.59	14.57	23.99
			H	19.40	10.51	-7.59	22.32	23.99
LTE BAND 30 BW: 5M QPSK RB: 1,24	2307.5	27685	V	12.17	10.51	-7.59	15.09	23.99
			H	18.43	10.51	-7.59	21.34	23.99
	2310.0	27710	V	12.33	10.51	-7.60	15.25	23.99
			H	18.52	10.51	-7.60	21.43	23.99
	2312.5	27735	V	12.18	10.51	-7.60	15.10	23.99
			H	19.34	10.51	-7.60	22.26	23.99
LTE BAND 30 BW: 5M 16QAM RB: 1,0	2307.5	27685	V	12.59	10.51	-7.59	15.51	23.99
			H	20.31	10.51	-7.59	23.23	23.99
	2310.0	27710	V	12.44	10.51	-7.59	15.35	23.99
			H	19.01	10.51	-7.59	21.93	23.99
	2312.5	27735	V	12.03	10.51	-7.59	14.94	23.99
			H	20.16	10.51	-7.59	23.08	23.99
LTE BAND 30 BW: 5M 16QAM RB: 1,24	2307.5	27685	V	12.32	10.51	-7.59	15.24	23.99
			H	18.67	10.51	-7.59	21.59	23.99
	2310.0	27710	V	12.39	10.51	-7.60	15.31	23.99
			H	18.64	10.51	-7.60	21.56	23.99
	2312.5	27735	V	12.01	10.51	-7.60	14.92	23.99
			H	19.99	10.51	-7.60	22.91	23.99
LTE BAND 30 BW: 5M 64QAM RB: 1,0	2307.5	27685	V	12.67	10.51	-7.59	15.59	23.99
			H	19.53	10.51	-7.59	22.45	23.99
	2310.0	27710	V	12.50	10.51	-7.59	15.42	23.99
			H	19.11	10.51	-7.59	22.03	23.99
	2312.5	27735	V	11.90	10.51	-7.59	14.81	23.99
			H	20.13	10.51	-7.59	23.05	23.99
LTE BAND 30 BW: 5M 64QAM RB: 1,24	2307.5	27685	V	12.34	10.51	-7.59	15.26	23.99
			H	18.89	10.51	-7.59	21.81	23.99
	2310.0	27710	V	12.29	10.51	-7.60	15.20	23.99
			H	18.75	10.51	-7.60	21.67	23.99
	2312.5	27735	V	11.84	10.51	-7.60	14.75	23.99
			H	20.07	10.51	-7.60	22.99	23.99

Remark : <sup>2</sup>A for frequency RBW= 5MHz , VBW= 5MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
LTE BAND 30 BW: 10M	MHz		V/H	dBm	dBd	dB	dBm	dBm
QPSK RB: 1,0	2310.0	27710	V	12.89	10.51	-7.59	15.81	23.99
			H	20.64	10.51	-7.59	<b>23.55</b>	23.99
QPSK RB: 1,49	2310.0	27710	V	12.94	10.51	-7.60	15.85	23.99
			H	19.54	10.51	-7.60	22.45	23.99
16QAM RB: 1,0	2310.0	27710	V	12.70	10.51	-7.59	15.61	23.99
			H	20.57	10.51	-7.59	<b>23.49</b>	23.99
16QAM RB: 1,49	2310.0	27710	V	13.08	10.51	-7.60	16.00	23.99
			H	20.14	10.51	-7.60	23.05	23.99
64QAM RB: 1,0	2310.0	27710	V	12.82	10.51	-7.59	15.74	23.99
			H	20.47	10.51	-7.59	<b>23.38</b>	23.99
64QAM RB: 1,49	2310.0	27710	V	12.94	10.51	-7.60	15.86	23.99
			H	19.69	10.51	-7.60	22.61	23.99

Remark :  $\rho_A$  for frequency RBW= 5MHz , VBW= 5MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 5M QPSK RB: 1,0	2498.5	39675	V	19.02	10.70	-7.83	21.90	33.00
			H	19.21	10.70	-7.83	22.08	33.00
	2593.0	40620	V	19.86	10.81	-7.93	22.74	33.00
			H	16.31	10.81	-7.93	19.19	33.00
	2687.5	41565	V	15.22	10.92	-8.03	18.11	33.00
			H	16.37	10.92	-8.03	19.26	33.00
LTE BAND 41 BW: 5M QPSK RB: 1,24	2498.5	39675	V	19.72	10.70	-7.83	22.59	33.00
			H	19.94	10.70	-7.83	22.81	33.00
	2593.0	40620	V	19.95	10.81	-7.94	<b>22.83</b>	33.00
			H	16.81	10.81	-7.93	19.69	33.00
	2687.5	41565	V	16.45	10.93	-8.03	19.35	33.00
			H	16.19	10.93	-8.03	19.08	33.00
LTE BAND 41 BW: 5M 16QAM RB: 1,0	2498.5	39675	V	18.94	10.70	-7.83	21.81	33.00
			H	18.89	10.70	-7.83	21.76	33.00
	2593.0	40620	V	19.83	10.81	-7.93	22.71	33.00
			H	16.45	10.81	-7.93	19.33	33.00
	2687.5	41565	V	15.56	10.92	-8.03	18.46	33.00
			H	16.27	10.92	-8.03	19.16	33.00
LTE BAND 41 BW: 5M 16QAM RB: 1,24	2498.5	39675	V	19.70	10.70	-7.83	22.57	33.00
			H	19.29	10.70	-7.83	22.16	33.00
	2593.0	40620	V	19.90	10.81	-7.93	<b>22.78</b>	33.00
			H	16.76	10.82	-7.94	19.64	33.00
	2687.5	41565	V	16.36	10.93	-8.03	19.26	33.00
			H	16.09	10.93	-8.03	18.98	33.00
LTE BAND 41 BW: 5M 64QAM RB: 1,0	2498.5	39675	V	16.09	10.93	-8.03	18.98	33.00
			H	18.89	10.70	-7.82	21.76	33.00
	2593.0	40620	V	19.98	10.81	-7.93	<b>22.86</b>	33.00
			H	16.59	10.81	-7.93	19.47	33.00
	2687.5	41565	V	15.64	10.92	-8.02	18.53	33.00
			H	16.35	10.92	-8.03	19.25	33.00
LTE BAND 41 BW: 5M 64QAM RB: 1,24	2498.5	39675	V	19.82	10.70	-7.83	22.69	33.00
			H	19.96	10.70	-7.83	22.83	33.00
	2593.0	40620	V	19.94	10.81	-7.93	22.82	33.00
			H	16.86	10.81	-7.94	19.74	33.00
	2687.5	41565	V	16.37	10.93	-8.03	19.27	33.00
			H	16.09	10.93	-8.03	18.98	33.00

Remark :  $\Delta A$  for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 10M QPSK RB: 1,0	2501.0	39700	V	18.80	10.70	-7.83	21.67	33.00
			H	18.72	10.70	-7.83	21.59	33.00
	2593.0	40620	V	19.88	10.81	-7.93	22.76	33.00
			H	17.51	10.81	-7.93	20.39	33.00
	2685.0	41540	V	14.77	10.92	-8.02	17.66	33.00
			H	15.44	10.93	-8.03	18.34	33.00
LTE BAND 41 BW: 10M QPSK RB: 1,49	2501.0	39700	V	20.35	10.71	-7.84	<b>23.22</b>	33.00
			H	19.72	10.71	-7.84	22.59	33.00
	2593.0	40620	V	19.77	10.82	-7.94	22.64	33.00
			H	16.97	10.82	-7.94	19.85	33.00
	2685.0	41540	V	14.85	10.92	-8.02	17.74	33.00
			H	15.61	10.93	-8.03	18.50	33.00
LTE BAND 41 BW: 10M 16QAM RB: 1,0	2501.0	39700	V	18.83	10.70	-7.83	21.70	33.00
			H	18.33	10.70	-7.83	21.20	33.00
	2593.0	40620	V	19.52	10.81	-7.93	22.40	33.00
			H	17.52	10.81	-7.93	20.40	33.00
	2685.0	41540	V	14.94	10.92	-8.02	17.83	33.00
			H	15.52	10.93	-8.03	18.42	33.00
LTE BAND 41 BW: 10M 16QAM RB: 1,49	2501.0	39700	V	20.32	10.71	-7.84	<b>23.19</b>	33.00
			H	19.84	10.71	-7.84	22.71	33.00
	2593.0	40620	V	19.85	10.82	-7.94	22.73	33.00
			H	17.08	10.82	-7.94	19.96	33.00
	2685.0	41540	V	15.40	10.92	-8.02	18.30	33.00
			H	14.51	10.93	-8.03	17.41	33.00
LTE BAND 41 BW: 10M 64QAM RB: 1,0	2501.0	39700	V	18.60	10.70	-7.83	21.47	33.00
			H	18.11	10.70	-7.83	20.98	33.00
	2593.0	40620	V	19.60	10.81	-7.93	22.48	33.00
			H	17.60	10.81	-7.93	20.48	33.00
	2685.0	41540	V	15.52	10.92	-8.02	18.41	33.00
			H	14.79	10.93	-8.03	17.68	33.00
LTE BAND 41 BW: 10M 64QAM RB: 1,49	2501.0	39700	V	20.35	10.71	-7.84	<b>23.22</b>	33.00
			H	19.90	10.71	-7.84	22.77	33.00
	2593.0	40620	V	19.85	10.82	-7.94	22.73	33.00
			H	17.05	10.82	-7.94	19.93	33.00
	2685.0	41540	V	15.68	10.92	-8.02	18.58	33.00
			H	15.00	10.93	-8.03	17.90	33.00

Remark :  $\Delta A$  for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 15M QPSK RB: 1,0	2503.5	39725	V	18.80	10.70	-7.83	21.67	33.00
			H	19.24	10.70	-7.83	22.12	33.00
	2593.0	40620	V	19.21	10.80	-7.93	22.09	33.00
			H	17.74	10.80	-7.93	20.62	33.00
	2682.5	41515	V	18.77	10.91	-8.02	21.67	33.00
			H	14.94	10.91	-8.02	17.84	33.00
LTE BAND 41 BW: 15M QPSK RB: 1,74	2503.5	39725	V	19.89	10.71	-7.84	22.76	33.00
			H	20.28	10.71	-7.84	<b>23.15</b>	33.00
	2593.0	40620	V	19.50	10.82	-7.94	22.38	33.00
			H	17.13	10.82	-7.94	20.01	33.00
	2682.5	41515	V	19.62	10.93	-8.03	22.52	33.00
			H	15.70	10.93	-8.03	18.60	33.00
LTE BAND 41 BW: 15M 16QAM RB: 1,0	2503.5	39725	V	18.33	10.70	-7.83	21.20	33.00
			H	19.40	10.70	-7.83	22.28	33.00
	2593.0	40620	V	19.32	10.80	-7.92	22.20	33.00
			H	17.88	10.80	-7.93	20.76	33.00
	2682.5	41515	V	18.91	10.91	-8.02	21.80	33.00
			H	14.99	10.91	-8.02	17.89	33.00
LTE BAND 41 BW: 15M 16QAM RB: 1,74	2503.5	39725	V	19.94	10.71	-7.84	22.81	33.00
			H	20.25	10.71	-7.84	<b>23.12</b>	33.00
	2593.0	40620	V	19.53	10.82	-7.94	22.41	33.00
			H	17.26	10.82	-7.94	20.14	33.00
	2682.5	41515	V	19.44	10.93	-8.03	22.34	33.00
			H	15.60	10.93	-8.03	18.50	33.00
LTE BAND 41 BW: 15M 64QAM RB: 1,0	2503.5	39725	V	18.68	10.70	-7.83	21.55	33.00
			H	19.74	10.70	-7.83	22.61	33.00
	2593.0	40620	V	19.42	10.80	-7.93	22.30	33.00
			H	18.03	10.80	-7.93	20.90	33.00
	2682.5	41515	V	18.90	10.91	-8.02	21.80	33.00
			H	14.89	10.91	-8.02	17.78	33.00
LTE BAND 41 BW: 15M 64QAM RB: 1,74	2503.5	39725	V	19.96	10.71	-7.84	22.83	33.00
			H	20.17	10.71	-7.84	<b>23.05</b>	33.00
	2593.0	40620	V	19.52	10.82	-7.94	22.40	33.00
			H	17.30	10.82	-7.94	20.18	33.00
	2682.5	41515	V	19.36	10.93	-8.03	22.26	33.00
			H	15.50	10.93	-8.03	18.40	33.00

Remark :  $\Delta A$  for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 20M QPSK RB: 1,0	2506.0	39750	V	17.91	10.70	-7.83	20.78	33.00
			H	17.90	10.70	-7.83	20.77	33.00
	2593.0	40620	V	18.78	10.80	-7.92	21.66	33.00
			H	16.61	10.80	-7.92	19.49	33.00
	2680.0	41490	V	19.66	10.91	-8.01	22.56	33.00
			H	16.15	10.91	-8.01	19.04	33.00
LTE BAND 41 BW: 20M QPSK RB: 1,99	2506.0	39750	V	19.17	10.72	-7.85	22.04	33.00
			H	19.12	10.72	-7.85	21.99	33.00
	2593.0	40620	V	19.46	10.82	-7.94	22.34	33.00
			H	16.27	10.82	-7.94	19.15	33.00
	2680.0	41490	V	20.41	10.93	-8.03	<b>23.31</b>	33.00
			H	17.13	10.93	-8.03	20.03	33.00
LTE BAND 41 BW: 20M 16QAM RB: 1,0	2506.0	39750	V	18.13	10.70	-7.83	21.00	33.00
			H	17.05	10.70	-7.83	19.92	33.00
	2593.0	40620	V	18.78	10.80	-7.92	21.66	33.00
			H	16.60	10.80	-7.92	19.48	33.00
	2680.0	41490	V	19.90	10.91	-8.01	22.79	33.00
			H	16.06	10.91	-8.01	18.95	33.00
LTE BAND 41 BW: 20M 16QAM RB: 1,99	2506.0	39750	V	19.20	10.72	-7.85	22.07	33.00
			H	19.29	10.72	-7.85	22.16	33.00
	2593.0	40620	V	20.07	10.82	-7.94	22.95	33.00
			H	16.27	10.82	-7.94	19.15	33.00
	2680.0	41490	V	20.40	10.93	-8.03	<b>23.30</b>	33.00
			H	17.29	10.93	-8.03	20.18	33.00
LTE BAND 41 BW: 20M 64QAM RB: 1,0	2506.0	39750	V	18.46	10.70	-7.83	21.33	33.00
			H	17.84	10.70	-7.83	20.71	33.00
	2593.0	40620	V	19.25	10.80	-7.92	22.13	33.00
			H	17.04	10.80	-7.92	19.92	33.00
	2680.0	41490	V	20.00	10.91	-8.01	22.90	33.00
			H	16.17	10.91	-8.01	19.06	33.00
LTE BAND 41 BW: 20M 64QAM RB: 1,99	2506.0	39750	V	19.18	10.72	-7.85	22.05	33.00
			H	19.71	10.72	-7.85	22.58	33.00
	2593.0	40620	V	20.15	10.82	-7.94	23.03	33.00
			H	16.26	10.82	-7.94	19.14	33.00
	2680.0	41490	V	20.49	10.93	-8.03	<b>23.39</b>	33.00
			H	17.51	10.93	-8.03	20.40	33.00

Remark :  $\Delta A$  for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 1.4M QPSK RB: 1,0	1710.7	131979	V	8.46	8.98	-6.58	10.86	30.00
			H	10.34	8.99	-6.58	12.74	30.00
	1745.0	132322	V	6.72	9.13	-6.65	9.20	30.00
			H	9.12	9.13	-6.65	11.60	30.00
	1779.3	132665	V	11.20	9.27	-6.72	13.75	30.00
			H	11.98	9.27	-6.72	14.54	30.00
LTE BAND 66 BW: 1.4M QPSK RB: 1,5	1710.7	131979	V	8.60	8.99	-6.58	11.00	30.00
			H	10.41	8.99	-6.58	12.82	30.00
	1745.0	132322	V	6.68	9.13	-6.65	9.16	30.00
			H	9.40	9.13	-6.65	11.88	30.00
	1779.3	132665	V	11.07	9.28	-6.72	13.63	30.00
			H	11.37	9.28	-6.72	13.93	30.00
LTE BAND 66 BW: 1.4M 16QAM RB: 1,0	1710.7	131979	V	8.65	8.99	-6.58	11.06	30.00
			H	10.65	8.99	-6.58	13.05	30.00
	1745.0	132322	V	6.83	9.13	-6.65	9.31	30.00
			H	9.30	9.13	-6.65	11.78	30.00
	1779.3	132665	V	11.24	9.27	-6.72	13.79	30.00
			H	12.10	9.27	-6.72	14.65	30.00
LTE BAND 66 BW: 1.4M 16QAM RB: 1,5	1710.7	131979	V	8.68	8.99	-6.58	11.09	30.00
			H	10.62	8.99	-6.58	13.02	30.00
	1745.0	132322	V	6.39	9.13	-6.65	8.87	30.00
			H	9.66	9.13	-6.65	12.14	30.00
	1779.3	132665	V	11.21	9.28	-6.72	13.77	30.00
			H	11.87	9.27	-6.72	14.43	30.00
LTE BAND 66 BW: 1.4M 64QAM RB: 1,0	1710.7	131979	V	8.78	8.98	-6.58	11.18	30.00
			H	10.85	8.99	-6.58	13.25	30.00
	1745.0	132322	V	6.92	9.13	-6.65	9.39	30.00
			H	9.60	9.13	-6.65	12.07	30.00
	1779.3	132665	V	11.29	9.27	-6.72	13.85	30.00
			H	12.03	9.27	-6.72	14.59	30.00
LTE BAND 66 BW: 1.4M 64QAM RB: 1,5	1710.7	131979	V	8.81	8.99	-6.58	11.22	30.00
			H	10.71	8.99	-6.58	13.12	30.00
	1745.0	132322	V	6.83	9.13	-6.65	9.31	30.00
			H	9.76	9.13	-6.65	12.24	30.00
	1779.3	132665	V	11.23	9.27	-6.72	13.79	30.00
			H	11.99	9.28	-6.72	14.55	30.00

Remark : 'A for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 3M QPSK RB: 1,0	1711.5	131987	V	9.48	8.98	-6.58	11.88	30.00
			H	10.30	8.99	-6.58	12.70	30.00
	1745.0	132322	V	6.68	9.13	-6.65	9.16	30.00
			H	9.06	9.12	-6.65	11.54	30.00
	1778.5	132657	V	10.87	9.27	-6.72	13.42	30.00
			H	11.33	9.26	-6.71	13.88	30.00
LTE BAND 66 BW: 3M QPSK RB: 1,14	1711.5	131987	V	8.58	8.99	-6.59	10.99	30.00
			H	10.31	9.00	-6.59	12.72	30.00
	1745.0	132322	V	6.85	9.14	-6.65	9.34	30.00
			H	9.51	9.13	-6.65	11.99	30.00
	1778.5	132657	V	10.91	9.28	-6.72	13.47	30.00
			H	11.50	9.28	-6.72	14.05	30.00
LTE BAND 66 BW: 3M 16QAM RB: 1,0	1711.5	131987	V	8.54	8.98	-6.58	10.94	30.00
			H	10.54	8.99	-6.58	12.95	30.00
	1745.0	132322	V	6.65	9.12	-6.65	9.12	30.00
			H	9.32	9.12	-6.65	11.80	30.00
	1778.5	132657	V	11.00	9.27	-6.72	13.56	30.00
			H	11.28	9.27	-6.72	13.83	30.00
LTE BAND 66 BW: 3M 16QAM RB: 1,14	1711.5	131987	V	8.66	9.00	-6.59	11.07	30.00
			H	10.50	8.99	-6.58	12.91	30.00
	1745.0	132322	V	7.17	9.13	-6.65	9.65	30.00
			H	9.56	9.14	-6.65	12.05	30.00
	1778.5	132657	V	11.06	9.28	-6.72	13.61	30.00
			H	11.72	9.27	-6.72	14.28	30.00
LTE BAND 66 BW: 3M 64QAM RB: 1,0	1711.5	131987	V	8.86	8.98	-6.58	11.26	30.00
			H	10.60	8.98	-6.58	13.01	30.00
	1745.0	132322	V	6.84	9.12	-6.65	9.31	30.00
			H	9.30	9.12	-6.65	11.77	30.00
	1778.5	132657	V	10.93	9.27	-6.72	13.48	30.00
			H	11.23	9.26	-6.71	13.78	30.00
LTE BAND 66 BW: 3M 64QAM RB: 1,14	1711.5	131987	V	8.89	9.00	-6.59	11.30	30.00
			H	10.61	9.00	-6.59	13.02	30.00
	1745.0	132322	V	7.21	9.14	-6.65	9.70	30.00
			H	9.74	9.14	-6.65	12.22	30.00
	1778.5	132657	V	11.38	9.28	-6.72	13.93	30.00
			H	11.67	9.27	-6.72	14.22	30.00

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 5M QPSK RB: 1,0	1712.5	131997	V	8.56	8.98	-6.58	10.97	30.00
			H	10.67	8.98	-6.58	13.07	30.00
	1745.0	132322	V	6.63	9.12	-6.64	9.10	30.00
			H	9.12	9.12	-6.64	11.59	30.00
	1777.5	132647	V	10.07	9.26	-6.71	12.61	30.00
			H	10.24	9.26	-6.71	12.79	30.00
LTE BAND 66 BW: 5M QPSK RB: 1,24	1712.5	131997	V	8.93	9.00	-6.59	11.34	30.00
			H	10.64	9.00	-6.59	13.05	30.00
	1745.0	132322	V	7.19	9.14	-6.66	9.68	30.00
			H	9.75	9.14	-6.66	12.24	30.00
	1777.5	132647	V	11.22	9.28	-6.72	13.78	30.00
			H	11.58	9.28	-6.72	14.14	30.00
LTE BAND 66 BW: 5M 16QAM RB: 1,0	1712.5	131997	V	9.26	8.99	-6.58	11.66	30.00
			H	10.48	8.98	-6.58	12.88	30.00
	1745.0	132322	V	6.76	9.12	-6.65	9.24	30.00
			H	9.33	9.12	-6.65	11.81	30.00
	1777.5	132647	V	10.12	9.26	-6.71	12.67	30.00
			H	10.13	9.25	-6.71	12.67	30.00
LTE BAND 66 BW: 5M 16QAM RB: 1,24	1712.5	131997	V	8.95	9.00	-6.59	11.36	30.00
			H	10.80	9.00	-6.59	13.21	30.00
	1745.0	132322	V	7.47	9.14	-6.65	9.95	30.00
			H	9.81	9.14	-6.65	12.30	30.00
	1777.5	132647	V	11.20	9.27	-6.72	13.76	30.00
			H	11.89	9.28	-6.72	14.44	30.00
LTE BAND 66 BW: 5M 64QAM RB: 1,0	1712.5	131997	V	8.82	8.98	-6.58	11.22	30.00
			H	10.72	8.98	-6.58	13.12	30.00
	1745.0	132322	V	6.97	9.12	-6.65	9.44	30.00
			H	9.41	9.12	-6.65	11.88	30.00
	1777.5	132647	V	10.04	9.26	-6.71	12.58	30.00
			H	10.25	9.26	-6.71	12.80	30.00
LTE BAND 66 BW: 5M 64QAM RB: 1,24	1712.5	131997	V	9.17	9.00	-6.59	11.58	30.00
			H	10.80	9.00	-6.59	13.21	30.00
	1745.0	132322	V	7.39	9.14	-6.65	9.87	30.00
			H	10.10	9.14	-6.65	12.58	30.00
	1777.5	132647	V	11.33	9.27	-6.72	13.89	30.00
			H	11.87	9.27	-6.72	14.43	30.00

Remark : 'A for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 10M QPSK RB: 1,0	1715.0	132022	V	8.43	8.99	-6.58	10.83	30.00
			H	10.28	8.99	-6.58	12.68	30.00
	1745.0	132322	V	6.88	9.11	-6.64	9.35	30.00
			H	8.48	9.11	-6.64	10.95	30.00
	1775.0	132622	V	9.39	9.23	-6.70	11.93	30.00
			H	7.99	9.24	-6.70	10.53	30.00
LTE BAND 66 BW: 10M QPSK RB: 1,49	1715.0	132022	V	7.87	9.02	-6.60	10.29	30.00
			H	10.85	9.02	-6.60	13.28	30.00
	1745.0	132322	V	8.14	9.15	-6.66	10.63	30.00
			H	10.22	9.15	-6.66	12.71	30.00
	1775.0	132622	V	11.27	9.28	-6.72	13.82	30.00
			H	11.96	9.28	-6.72	<b>14.52</b>	30.00
LTE BAND 66 BW: 10M 16QAM RB: 1,0	1715.0	132022	V	7.91	9.02	-6.60	10.33	30.00
			H	10.99	9.02	-6.60	13.41	30.00
	1745.0	132322	V	6.92	9.11	-6.64	9.39	30.00
			H	9.30	9.11	-6.64	11.77	30.00
	1775.0	132622	V	9.57	9.24	-6.70	12.10	30.00
			H	8.08	9.24	-6.70	10.62	30.00
LTE BAND 66 BW: 10M 16QAM RB: 1,49	1715.0	132022	V	8.45	9.02	-6.60	10.87	30.00
			H	10.70	9.02	-6.60	13.12	30.00
	1745.0	132322	V	8.37	9.15	-6.66	10.85	30.00
			H	10.40	9.15	-6.66	12.88	30.00
	1775.0	132622	V	11.92	9.28	-6.72	14.47	30.00
			H	11.95	9.27	-6.72	<b>14.51</b>	30.00
LTE BAND 66 BW: 10M 64QAM RB: 1,0	1715.0	132022	V	9.01	8.98	-6.58	11.41	30.00
			H	10.83	8.99	-6.58	13.23	30.00
	1745.0	132322	V	7.13	9.11	-6.64	9.60	30.00
			H	9.27	9.11	-6.64	11.74	30.00
	1775.0	132622	V	9.68	9.24	-6.70	12.22	30.00
			H	8.33	9.24	-6.70	10.87	30.00
LTE BAND 66 BW: 10M 64QAM RB: 1,49	1715.0	132022	V	8.00	9.02	-6.60	10.43	30.00
			H	11.16	9.02	-6.60	13.58	30.00
	1745.0	132322	V	8.39	9.15	-6.66	10.88	30.00
			H	10.60	9.15	-6.66	13.08	30.00
	1775.0	132622	V	11.51	9.27	-6.72	14.06	30.00
			H	11.92	9.28	-6.72	<b>14.48</b>	30.00

Remark : 'A for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 15M QPSK RB: 1,0	1717.5	132047	V	8.48	8.99	-6.58	10.88	30.00
			H	10.51	8.98	-6.58	12.92	30.00
	1745.0	132322	V	6.81	9.11	-6.64	9.28	30.00
			H	8.75	9.10	-6.64	11.21	30.00
	1772.5	132597	V	10.42	9.22	-6.69	12.95	30.00
			H	8.35	9.22	-6.69	10.87	30.00
LTE BAND 66 BW: 15M QPSK RB: 1,74	1717.5	132047	V	6.42	9.04	-6.61	8.85	30.00
			H	11.37	9.04	-6.61	13.80	30.00
	1745.0	132322	V	9.56	9.16	-6.66	12.05	30.00
			H	10.72	9.16	-6.66	13.21	30.00
	1772.5	132597	V	12.00	9.27	-6.72	14.55	30.00
			H	12.01	9.27	-6.72	14.57	30.00
LTE BAND 66 BW: 15M 16QAM RB: 1,0	1717.5	132047	V	8.64	8.99	-6.58	11.04	30.00
			H	10.71	8.99	-6.58	13.11	30.00
	1745.0	132322	V	7.21	9.10	-6.64	9.68	30.00
			H	9.01	9.10	-6.64	11.48	30.00
	1772.5	132597	V	10.42	9.22	-6.69	12.94	30.00
			H	8.97	9.22	-6.69	11.49	30.00
LTE BAND 66 BW: 15M 16QAM RB: 1,74	1717.5	132047	V	6.42	9.04	-6.61	8.86	30.00
			H	11.32	9.04	-6.61	13.75	30.00
	1745.0	132322	V	9.29	9.16	-6.66	11.79	30.00
			H	10.91	9.16	-6.67	13.41	30.00
	1772.5	132597	V	11.08	9.27	-6.72	13.64	30.00
			H	11.93	9.27	-6.72	14.49	30.00
LTE BAND 66 BW: 15M 64QAM RB: 1,0	1717.5	132047	V	8.88	8.99	-6.58	11.29	30.00
			H	10.77	8.98	-6.58	13.17	30.00
	1745.0	132322	V	7.35	9.10	-6.64	9.81	30.00
			H	9.55	9.10	-6.64	12.02	30.00
	1772.5	132597	V	10.80	9.22	-6.69	13.32	30.00
			H	9.07	9.22	-6.69	11.60	30.00
LTE BAND 66 BW: 15M 64QAM RB: 1,74	1717.5	132047	V	6.68	9.04	-6.61	9.12	30.00
			H	12.12	9.04	-6.61	14.55	30.00
	1745.0	132322	V	9.36	9.16	-6.66	11.86	30.00
			H	10.78	9.16	-6.66	13.27	30.00
	1772.5	132597	V	11.32	9.27	-6.72	13.87	30.00
			H	11.69	9.27	-6.72	14.25	30.00

Remark : 'A for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 20M QPSK RB: 1,0	1720.0	132072	V	8.38	8.99	-6.58	10.78	30.00
			H	9.98	8.98	-6.58	12.38	30.00
	1745.0	132322	V	7.00	9.10	-6.63	9.47	30.00
			H	9.19	9.09	-6.63	11.65	30.00
	1770.0	132572	V	11.39	9.20	-6.68	13.90	30.00
			H	10.75	9.20	-6.68	13.27	30.00
LTE BAND 66 BW: 20M QPSK RB: 1,99	1720.0	132072	V	7.22	9.06	-6.62	9.66	30.00
			H	12.17	9.06	-6.62	14.62	30.00
	1745.0	132322	V	8.99	9.17	-6.67	11.49	30.00
			H	9.95	9.17	-6.67	12.45	30.00
	1770.0	132572	V	11.26	9.27	-6.72	13.81	30.00
			H	11.92	9.27	-6.72	14.48	30.00
LTE BAND 66 BW: 20M 16QAM RB: 1,0	1720.0	132072	V	8.55	8.99	-6.58	10.96	30.00
			H	10.49	8.98	-6.58	12.89	30.00
	1745.0	132322	V	7.34	9.09	-6.63	9.80	30.00
			H	9.68	9.09	-6.63	12.14	30.00
	1770.0	132572	V	11.44	9.20	-6.68	13.95	30.00
			H	10.96	9.20	-6.68	13.47	30.00
LTE BAND 66 BW: 20M 16QAM RB: 1,99	1720.0	132072	V	7.93	9.06	-6.62	10.38	30.00
			H	12.34	9.06	-6.62	14.78	30.00
	1745.0	132322	V	9.05	9.17	-6.67	11.55	30.00
			H	10.06	9.17	-6.67	12.56	30.00
	1770.0	132572	V	11.42	9.27	-6.72	13.98	30.00
			H	12.26	9.27	-6.72	14.82	30.00
LTE BAND 66 BW: 20M 64QAM RB: 1,0	1720.0	132072	V	9.28	8.98	-6.58	11.68	30.00
			H	10.81	8.99	-6.58	13.21	30.00
	1745.0	132322	V	7.57	9.09	-6.63	10.03	30.00
			H	10.24	9.09	-6.63	12.70	30.00
	1770.0	132572	V	11.42	9.20	-6.68	13.93	30.00
			H	10.92	9.20	-6.68	13.44	30.00
LTE BAND 66 BW: 20M 64QAM RB: 1,99	1720.0	132072	V	7.61	9.07	-6.62	10.06	30.00
			H	12.51	9.07	-6.62	14.95	30.00
	1745.0	132322	V	9.01	9.17	-6.67	11.51	30.00
			H	10.05	9.17	-6.67	12.55	30.00
	1770.0	132572	V	11.04	9.27	-6.72	13.60	30.00
			H	12.04	9.27	-6.72	14.59	30.00

Remark : 'A for frequency RBW= 8MHz , VBW= 8MHz

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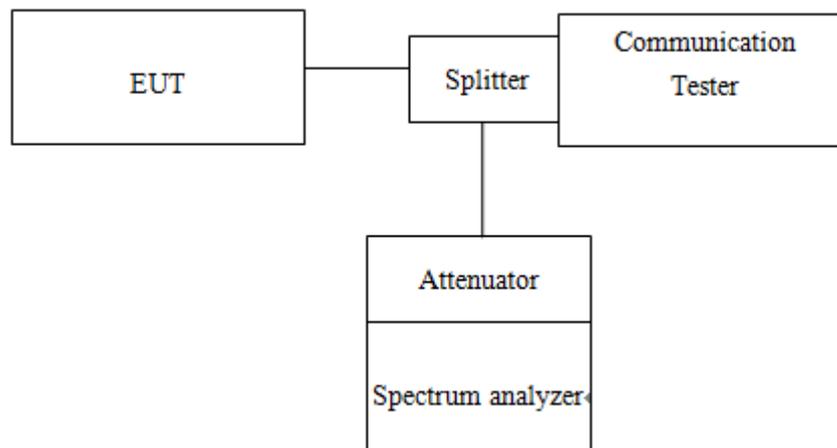
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## 8. OCCUPIED BANDWIDTH MEASUREMENT

### 8.1. Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

### 8.2. Test Set-up



### 8.3. Measurement Procedure

#### **99% &26dB Bandwidth with detector peak**

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

#### **99% Bandwidth with detector sample**

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 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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#### 8.4. 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	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

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### 8.5. Measurement Result

LTE BAND 2 Channel bandwidth: 1.4MHz							LTE BAND 2 Channel bandwidth: 3MHz								
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1850.7	18607	1.0925	1.0893	1.0936	1.2395	1.2273	1.2462	1851.5	18615	2.6962	2.6999	2.7087	2.9948	3.0086	3.0119
1880.0	18900	1.0923	1.0907	1.0938	1.2396	1.2427	1.2453	1880.0	18900	2.6955	2.6962	2.7102	2.9831	3.0107	3.0141
1909.3	19193	1.0923	1.0942	1.0924	1.2346	1.2336	1.2452	1908.5	19185	2.6984	2.6961	2.7076	2.9839	3.0048	3.0201

LTE BAND 2 Channel bandwidth: 5MHz							LTE BAND 2 Channel bandwidth: 10MHz								
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1852.5	18625	4.4910	4.4977	4.4877	4.9640	4.9276	4.9648	1855.0	18650	8.9909	8.9476	8.9667	9.8187	9.7016	9.8490
1880.0	18900	4.4962	4.4898	4.5015	4.9401	4.9139	4.9847	1880.0	18900	8.9898	8.9505	8.9902	9.7829	9.7088	9.8777
1907.5	19175	4.4918	4.5019	4.4908	4.9963	4.9671	4.9462	1905.0	19150	8.9954	8.9590	8.9641	9.8358	9.7217	9.8709

LTE BAND 2 Channel bandwidth: 15MHz							LTE BAND 2 Channel bandwidth: 20MHz								
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1857.5	18675	13.4880	13.4560	13.4680	14.7280	14.7310	14.6310	1860.0	18700	17.9290	17.9650	17.9230	19.4640	19.3320	19.4380
1880.0	18900	13.4700	13.4540	13.4610	14.6960	14.6820	14.6120	1880.0	18900	17.9220	17.9580	17.9480	19.4820	19.4350	19.3590
1902.5	19125	13.4460	13.4480	13.4650	14.5590	14.6770	14.6130	1900.0	19100	17.9480	17.9290	17.9490	19.4600	19.4810	19.4930

LTE BAND 4 Channel bandwidth: 1.4MHz							LTE BAND 4 Channel bandwidth: 3MHz								
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1710.7	19957	1.1041	1.1010	1.1244	1.5637	1.5049	1.2317	1711.5	19965	2.7201	2.7143	2.7482	3.2762	3.9152	5.4994
1732.5	20175	1.1090	1.1073	1.1090	1.9135	1.6804	0.0000	1732.5	20175	2.7338	2.7243	2.7343	3.9565	4.1902	3.9954
1754.3	20393	1.0949	1.0961	1.0959	1.2318	1.2340	0.0000	1753.5	20385	2.6935	2.7007	2.7103	3.0235	3.0157	3.0191

LTE BAND 4 Channel bandwidth: 5MHz							LTE BAND 4 Channel bandwidth: 10MHz								
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1712.5	19957	4.5374	4.5349	4.5522	8.2008	6.9177	8.9346	1715.0	20000	9.0353	9.0078	9.0374	10.9349	10.0207	11.4127
1732.5	20175	4.5384	4.5407	4.5403	9.4647	8.2491	7.3903	1732.5	20175	9.0196	8.9930	9.0054	10.8561	10.5875	9.9036
1752.5	20375	4.4913	4.5017	4.4987	4.9748	4.9492	4.9589	1750.0	20350	9.0281	8.9855	8.9975	9.8174	9.7544	9.8137

LTE BAND 4 Channel bandwidth: 15MHz							LTE BAND 4 Channel bandwidth: 20MHz								
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1717.5	20025	13.4710	13.4700	13.4760	14.6220	14.6460	14.7080	1720.0	20050	17.8220	17.8640	17.8440	19.4120	19.2690	19.3190
1732.5	20175	13.5220	13.5650	13.5060	15.1840	18.2210	15.5070	1732.5	20175	17.9240	17.9630	17.9590	19.5070	19.3320	19.4960
1747.5	20325	13.5480	13.5650	13.5730	15.4170	16.6160	16.6220	1745.0	20300	18.0930	18.1130	18.2080	28.3350	32.2730	33.8100

LTE BAND 5 Channel bandwidth: 1.4MHz							LTE BAND 5 Channel bandwidth: 3MHz								
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
824.7	20407	1.0935	1.0894	1.0949	1.2325	1.2289	1.2426	825.5	20415	2.6935	2.6970	2.7065	2.9863	3.0116	3.0084
836.5	20525	1.0906	1.0932	1.0944	1.2374	1.2244	1.2438	836.5	20525	2.6977	2.6965	2.7106	2.9874	3.0078	3.0230
848.3	20643	1.0940	1.0947	1.0935	1.2317	1.2372	1.2434	847.5	20635	2.6945	2.7002	2.7095	2.9960	3.0000	3.0141

LTE BAND 5 Channel bandwidth: 5MHz							LTE BAND 5 Channel bandwidth: 10MHz								
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
826.5	20425	4.4982	4.4935	4.5000	4.9708	4.9736	4.9660	829.0	20450	8.9840	8.9612	8.9912	9.8344	9.7518	9.8647
836.5	20525	4.4926	4.4961	4.4925	4.9656	4.9261	4.9639	836.5	20525	9.0059	8.9602	8.9619	9.7617	9.7728	9.8395
846.5	20625	4.4908	4.4871	4.5009	4.9364	4.9828	4.9517	844.0	20600	9.0105	8.9668	9.0048	9.7607	9.8243	9.8880

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LTE BAND 12 Channel bandwidth: 1.4MHz								LTE BAND 12 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
699.7	23017	1.0936	1.0945	1.0938	1.2414	1.2335	1.2396	700.5	23025	2.6947	2.6995	2.7063	2.9653	3.0156	3.0056
707.5	23095	1.0926	1.0945	1.0939	1.2380	1.2407	1.2452	707.5	23095	2.6964	2.6990	2.7117	2.9891	2.9931	3.0067
715.3	23173	1.0937	1.1002	1.0938	1.2280	1.2140	1.2456	714.5	23165	2.7037	2.7666	2.7075	3.0029	2.9125	2.9990

LTE BAND 12 Channel bandwidth: 5MHz								LTE BAND 12 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
701.5	23035	4.4854	4.4916	4.4917	4.9745	4.9618	4.9522	704.0	23060	8.9840	8.9637	8.9754	9.7299	9.8035	9.8436
707.5	23095	4.4963	4.5031	4.4992	4.9656	4.8984	4.9640	707.5	23095	8.9664	8.9555	8.9829	9.7589	9.7417	9.8518
713.5	23155	4.4946	4.4892	4.4948	4.9577	4.9122	4.9852	711.0	23130	8.9591	8.9560	8.9884	9.8237	9.7500	9.8271

LTE BAND 13 Channel bandwidth: 5MHz								LTE BAND 13 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
779.5	23205	4.4888	4.4894	4.5124	4.9546	4.9414	4.9668	782.0	23230	8.9656	8.9505	8.9656	9.7271	9.7682	9.8182
782.0	23230	4.4918	4.4974	4.4817	4.9467	4.9502	4.9116								
784.5	23255	4.5016	4.5012	4.5049	4.9849	4.9548	4.9602								

LTE BAND 17 Channel bandwidth: 5MHz								LTE BAND 17 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
706.5	23755	4.5019	4.5066	4.5057	4.9897	4.9980	4.9943	709.0	23780	9.0121	8.9613	8.9590	9.8540	9.7600	9.7580
710.0	23790	4.5003	4.4992	4.4990	5.0021	4.9619	4.9645	710.0	23790	8.9971	8.9610	8.9801	9.8140	9.7590	9.8100
713.5	23825	4.4980	4.4930	4.4937	4.9692	4.9731	4.9702	711.0	23780	9.0016	8.9587	8.9699	9.8000	9.7680	9.8310

LTE BAND 25 Channel bandwidth: 1.4MHz								LTE BAND 25 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1850.7	26047	1.0933	1.0973	1.0925	1.2410	1.2430	1.2450	1851.5	26055	2.7005	2.7010	2.7087	2.9990	3.0140	2.9950
1882.5	26365	1.0928	1.0971	1.0929	1.2400	1.2400	1.2470	1882.5	26365	2.6997	2.7026	2.7103	2.9840	3.0120	3.0060
1914.3	26683	1.0947	1.0975	1.0949	1.2410	1.2420	1.2500	1913.5	26675	2.7008	2.7032	2.7078	3.0130	3.0130	3.0010

LTE BAND 25 Channel bandwidth: 5MHz								LTE BAND 25 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1852.5	26065	4.5008	4.5000	4.4938	4.948	4.968	4.978	1855.0	26090	9.0004	8.9605	8.9830	9.818	9.795	9.836
1882.5	26365	4.5011	4.5048	4.5037	4.9840	4.9900	4.9800	1882.5	26365	9.0078	8.9614	8.9760	9.8320	9.7460	9.7890
1912.5	26665	4.4980	4.5083	4.5008	4.9930	4.9520	4.9680	1910.0	26640	8.9947	8.9638	8.9851	9.8370	9.3818	9.8790

LTE BAND 25 Channel bandwidth: 15MHz								LTE BAND 25 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1857.5	26115	13.4770	13.4520	13.4600	14.7000	14.6500	14.6400	1860.0	26140	17.9100	17.9230	17.9300	19.3800	19.4300	19.5100
1882.5	26365	13.4600	13.4490	13.4590	14.6800	14.7600	14.6000	1882.5	26365	17.9280	17.9460	17.9330	19.4300	19.5800	19.4600
1907.5	26615	13.4710	13.4610	13.4650	14.7000	14.6800	14.6400	1905.0	26590	17.9270	17.9390	17.9480	19.4200	19.5500	19.5400

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LTE BAND 25 Channel bandwidth: 1.4MHz								LTE BAND 25 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1850.7	26047	1.0933	1.0973	1.0925	1.2410	1.2430	1.2450	1851.5	26055	2.7005	2.7010	2.7087	2.9990	3.0140	2.9950
1882.5	26365	1.0928	1.0971	1.0929	1.2400	1.2400	1.2470	1882.5	26365	2.6997	2.7026	2.7103	2.9840	3.0120	3.0060
1914.3	26683	1.0947	1.0975	1.0949	1.2410	1.2420	1.2500	1913.5	26675	2.7008	2.7032	2.7078	3.0130	3.0130	3.0010

LTE BAND 25 Channel bandwidth: 5MHz								LTE BAND 25 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1852.5	26065	4.5008	4.5000	4.4938	4.948	4.968	4.978	1855.0	26090	9.0004	8.9605	8.9830	9.818	9.795	9.836
1882.5	26365	4.5011	4.5048	4.5037	4.9840	4.9900	4.9800	1882.5	26365	9.0078	8.9614	8.9760	9.8320	9.7460	9.7890
1912.5	26665	4.4980	4.5083	4.5008	4.9930	4.9520	4.9680	1910.0	26640	8.9947	8.9638	8.9851	9.8370	9.3818	9.8790

LTE BAND 25 Channel bandwidth: 15MHz								LTE BAND 25 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1857.5	26115	13.4770	13.4520	13.4600	14.7000	14.6500	14.6400	1860.0	26140	17.9100	17.9230	17.9300	19.3800	19.4300	19.5100
1882.5	26365	13.4600	13.4490	13.4590	14.6800	14.7600	14.6000	1882.5	26365	17.9280	17.9460	17.9330	19.4300	19.5800	19.4600
1907.5	26615	13.4710	13.4610	13.4650	14.7000	14.6800	14.6400	1905.0	26590	17.9270	17.9390	17.9480	19.4200	19.5500	19.5400

LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz								LTE BAND 26 for part 90S Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
814.7	26697	1.0928	1.0954	1.0946	1.2440	1.2330	1.2430	815.5	26705	2.6960	2.6973	2.7082	2.9770	2.9970	3.0090
819.0	26740	1.0917	1.0940	1.0936	1.2360	1.0940	1.2450	819.0	26740	2.6932	2.6946	2.7120	2.9900	2.9820	3.0060
823.3	26783	1.0934	1.0890	1.0940	1.2380	1.2280	1.2420	822.5	26775	2.6897	2.6996	2.7067	3.0050	2.9960	3.0050

LTE BAND 26 for part 90S Channel bandwidth: 5MHz								LTE BAND 26 for part 90S Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
816.5	26715	4.4943	4.5007	4.4944	4.9840	4.9480	4.9830	819.0	26740	8.9702	8.9654	8.9865	9.8390	9.7620	9.8760
819.0	26740	4.4949	4.5007	4.4971	4.9600	4.9280	4.9760								
821.5	26765	4.5004	4.4941	4.4975	4.9480	4.9400	4.9790								

LTE BAND 30 Channel bandwidth: 5MHz								LTE BAND 30 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2307.5	27685	4.5046	4.5098	4.5025	5.0140	4.9970	4.9880	2310.0	27710	9.0063	8.9575	8.9773	9.866	9.773	9.789
2310.0	27710	4.5034	4.5062	4.4964	4.9920	4.9650	4.9700								
2312.5	27735	4.5042	4.4991	4.5018	5.0080	4.9730	4.9450								

LTE BAND 41 Channel bandwidth: 5MHz								LTE BAND 41 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2498.5	39675	4.5102	4.5054	4.4926	4.9430	4.9610	4.9700	2501.0	39700	8.9912	8.9673	8.9718	9.8020	9.8150	9.9440
2593.0	40620	4.5085	4.5013	4.4952	4.9810	4.9750	4.9280	2593.0	40620	8.9855	8.9606	8.9785	9.7980	9.8200	9.8590
2687.5	41565	4.5046	4.5127	4.4945	4.9660	4.9620	4.9570	2685.0	41540	9.0017	8.9728	8.9889	9.8060	9.7660	9.8430

LTE BAND 41 Channel bandwidth: 15MHz								LTE BAND 41 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2503.5	39725	13.4730	13.4660	13.4300	14.5700	14.7000	14.5000	2506.0	39750	17.9200	17.8860	17.9020	19.4800	19.4500	19.3500
2593.0	40620	13.4730	13.4500	13.4310	14.6200	14.6800	14.7400	2593.0	40620	17.9230	17.9150	17.9190	19.3600	19.4200	19.4300
2682.5	41515	13.4890	13.4800	13.4330	14.6700	14.6700	14.5400	2680.0	41490	17.8960	17.8730	17.8820	19.2800	19.2700	19.2100

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LTE BAND 66 Channel bandwidth: 1.4MHz								LTE BAND 66 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1710.7	131979	1.0942	1.0990	1.0979	1.2420	1.2470	1.2370	1711.5	131987	2.7014	2.7057	2.7068	3.0150	3.0130	3.0200
1745.0	132322	1.0958	1.0967	1.0946	1.2370	1.2480	1.2350	1745.0	132322	2.6977	2.6998	2.7108	2.9990	3.0120	3.0090
1779.3	132665	1.0953	1.0974	1.0944	1.2430	1.2360	1.2370	1778.5	132657	2.6974	2.6976	2.7067	2.9870	3.0130	3.0150

LTE BAND 66 Channel bandwidth: 5MHz								LTE BAND 66 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1712.5	131997	4.5035	4.5076	4.4988	5.0100	4.9540	4.9590	1715.0	132022	8.9760	8.9736	8.9869	9.8040	9.7570	9.7970
1745.0	132322	4.5002	4.5083	4.5011	4.9910	5.0010	4.9970	1745.0	132322	9.0053	8.9874	8.9884	9.8430	9.7830	9.7960
1777.5	132647	4.4979	4.5048	4.4908	4.9800	4.9850	4.9510	1775.0	132622	9.0035	8.9702	9.0038	9.8570	9.7510	9.8190

LTE BAND 66 Channel bandwidth: 15MHz								LTE BAND 66 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)			Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1717.5	132047	13.4260	13.4340	13.4290	14.6200	14.5400	14.6700	1720.0	132072	17.8010	17.8150	17.8000	19.2200	19.1800	19.1900
1745.0	132322	13.5170	13.5030	13.4970	14.6900	14.7300	14.7500	1745.0	132322	18.0150	18.0460	18.0340	19.6500	19.4000	19.4800
1772.5	132597	13.5230	13.5310	13.5290	14.6300	14.7000	14.7500	1770.0	132572	18.0790	18.1110	18.0770	19.7300	19.6600	19.6400

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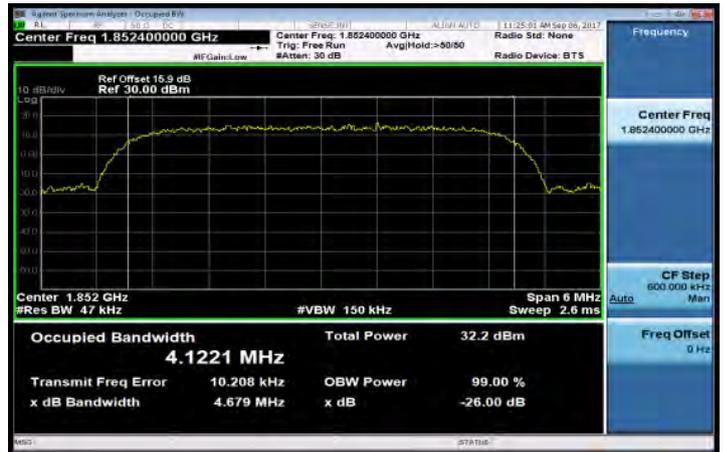
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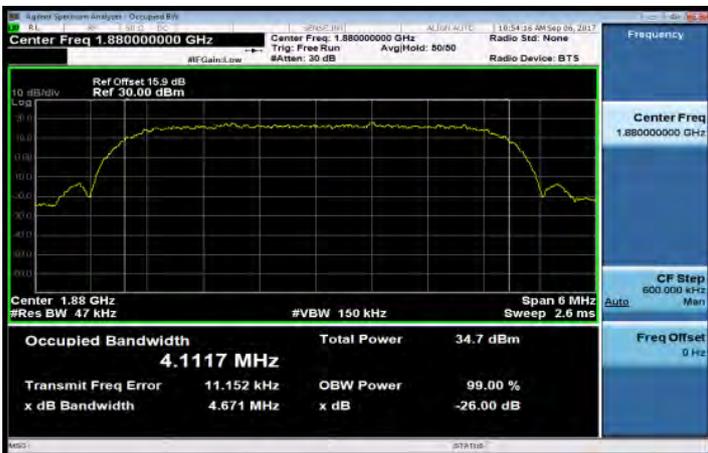
WCDMA\_B2\_LowCH9262-1852.4



HSDPA\_B2\_LowCH9262-1852.4



WCDMA\_B2\_MidCH9400-1880



HSDPA\_B2\_MidCH9400-1880



WCDMA\_B2\_HighCH9538-1907.6



HSDPA\_B2\_HighCH9538-1907.6



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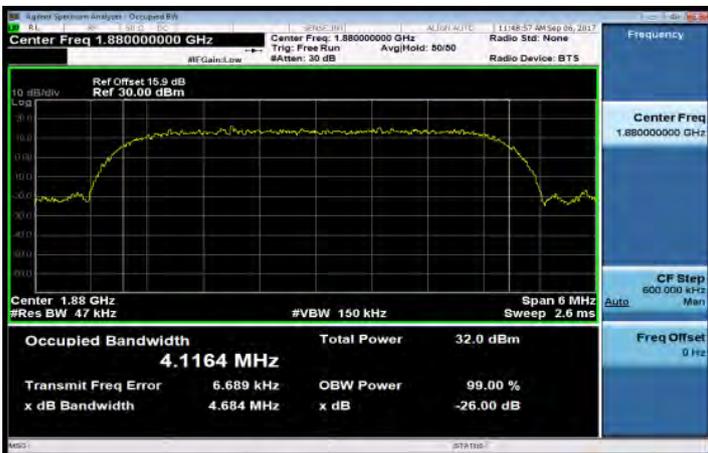
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WCDMA\_B4\_LowCH1312-1712.4



HSUPA\_B2\_MidCH9400-1880



WCDMA\_B4\_MidCH1413-1732.6



HSUPA\_B2\_HighCH9538-1907.6



WCDMA\_B4\_HighCH1513-1752.6



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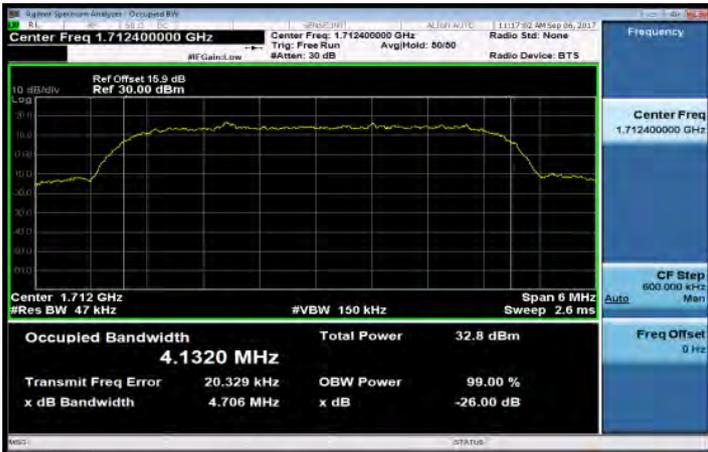
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HSDPA\_B4\_LowCH1312-1712.4



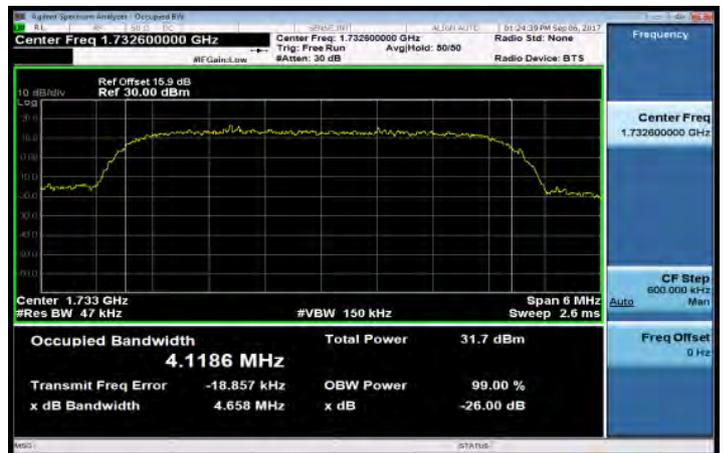
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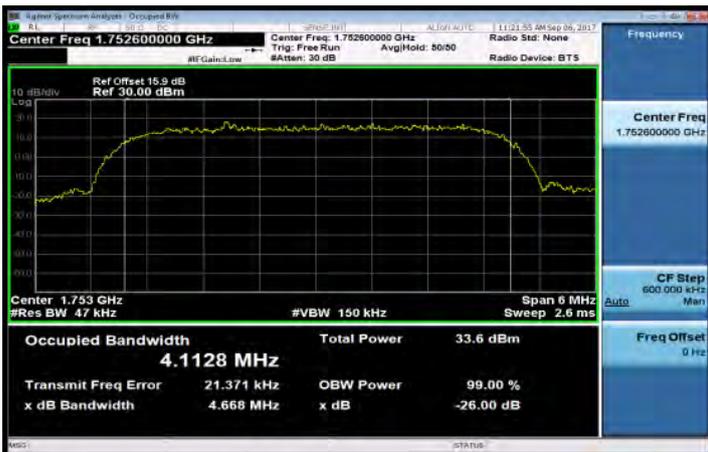
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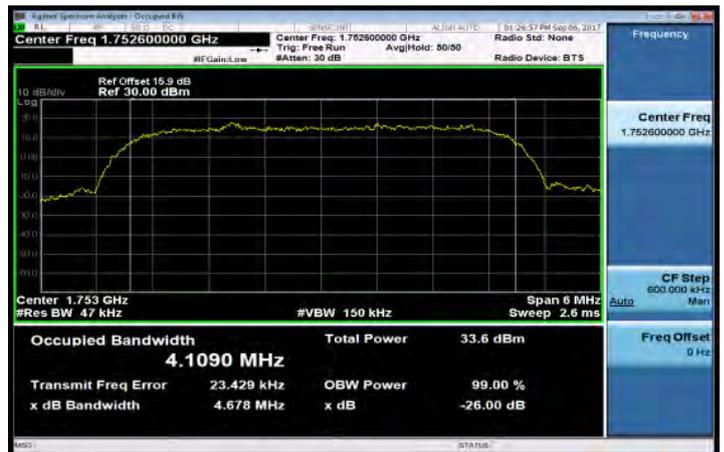
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HSDPA\_B4\_HighCH1513-1752.6



HSUPA\_B4\_HighCH1513-1752.6



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WCDMA\_B5\_LowCH4132-826.4



HSDPA\_B5\_LowCH4132-826.4



WCDMA\_B5\_MidCH4183-836.6



HSDPA\_B5\_MidCH4183-836.6



WCDMA\_B5\_HighCH4233-846.6



HSDPA\_B5\_HighCH4233-846.6



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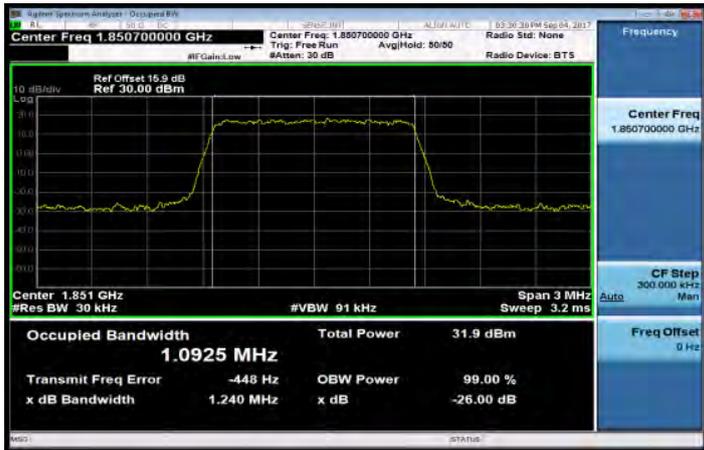
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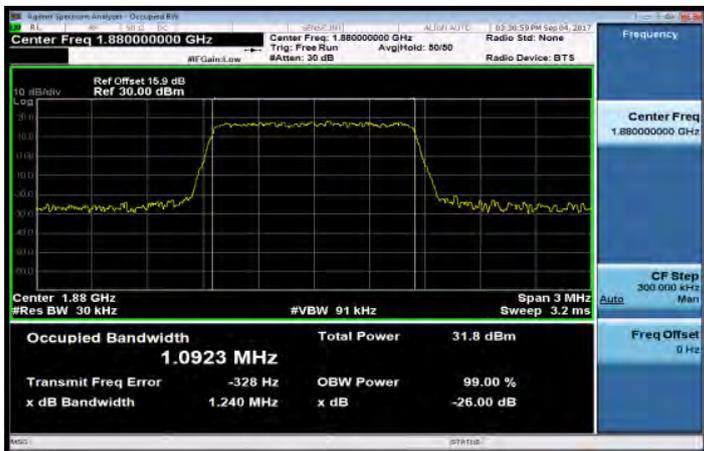
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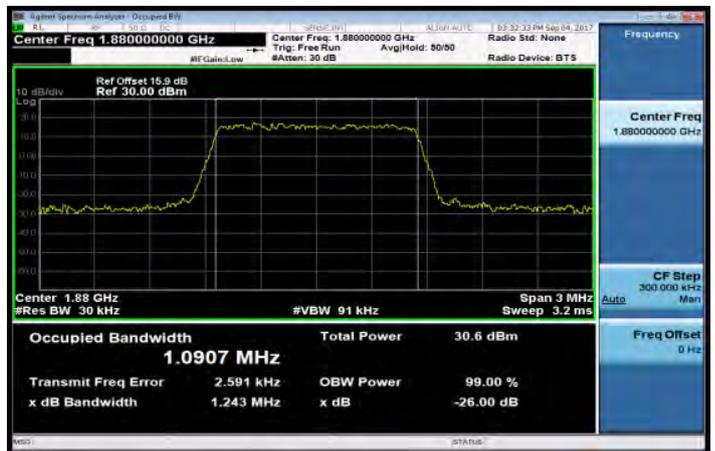
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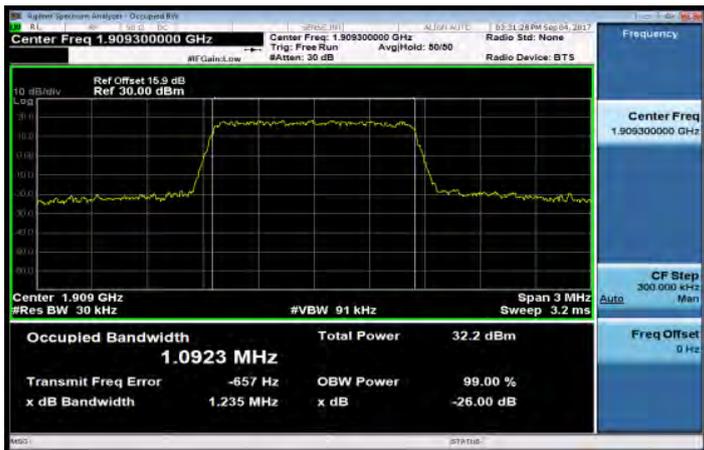
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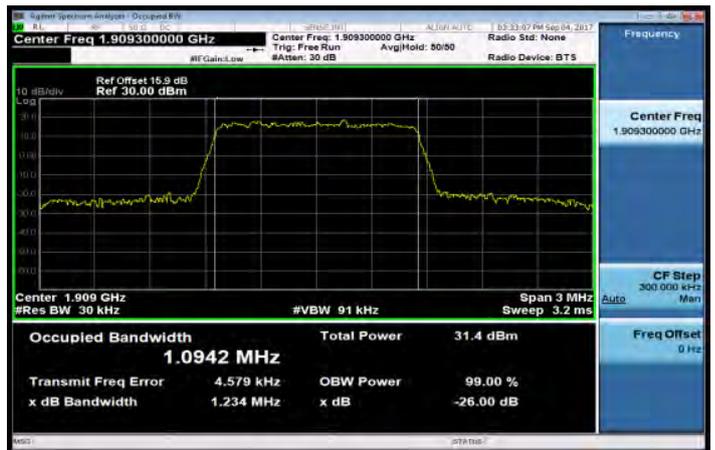
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Band2\_1\_4MHz\_QPSK\_6\_0\_HighCH19193-1909.3



Band2\_1\_4MHz\_16QAM\_6\_0\_HighCH19193-1909.3



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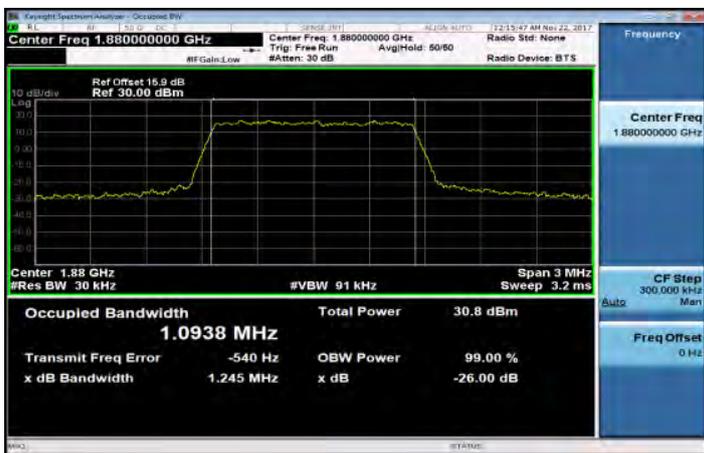
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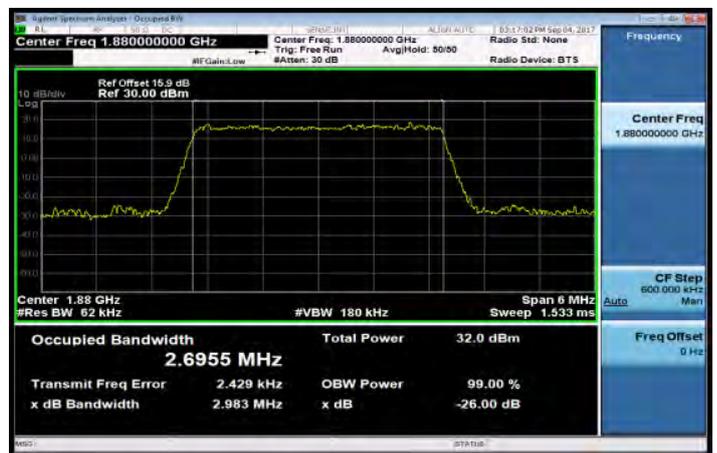
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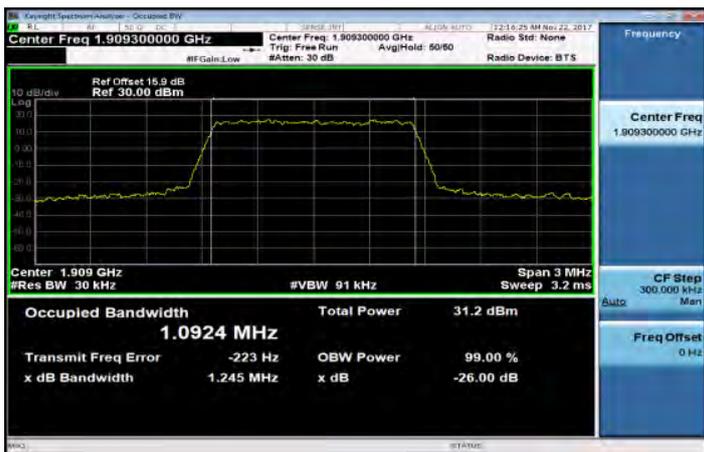
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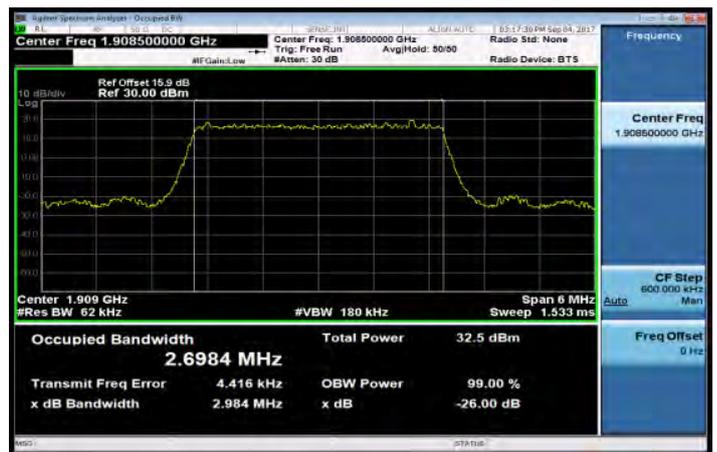
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Band2\_1\_4MHz\_64QAM\_6\_0\_HighCH19193-1909.3



Band2\_3MHz\_QPSK\_15\_0\_HighCH19185-1908.5



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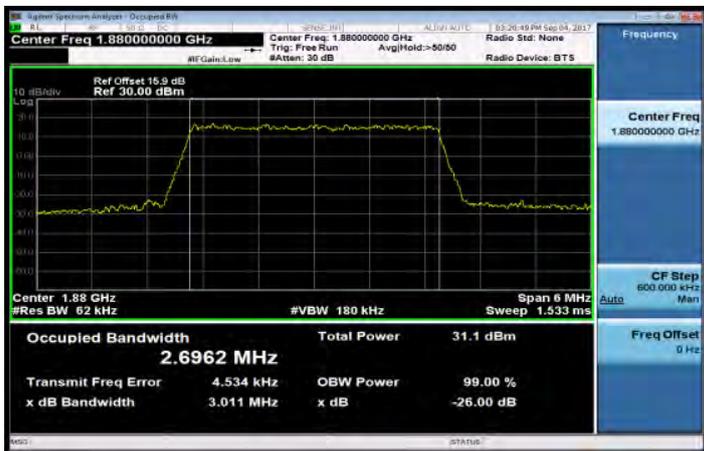
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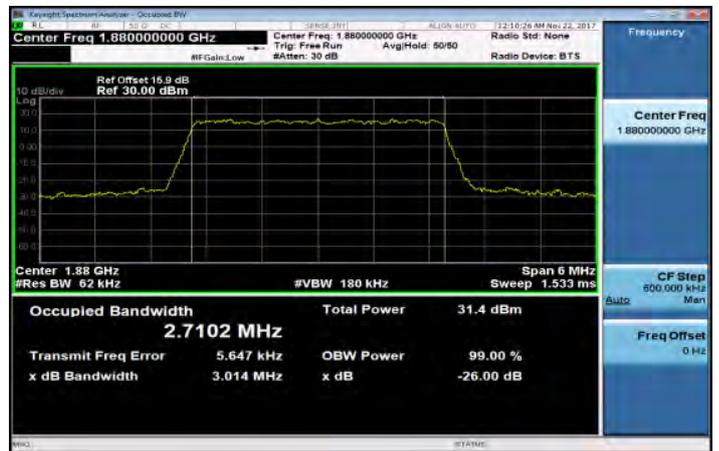
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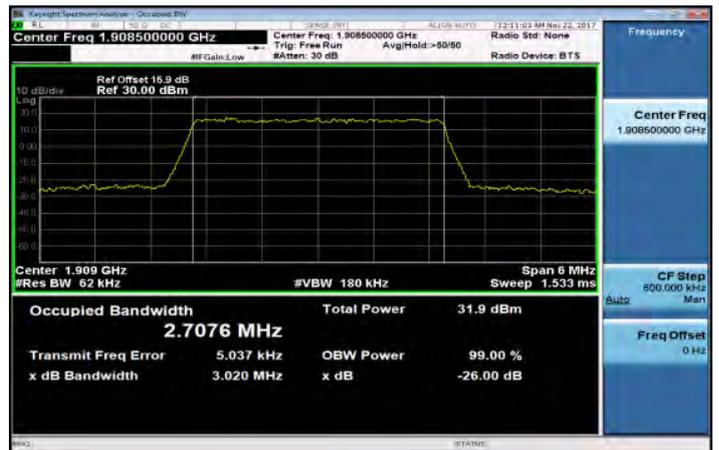
Band2\_3MHz\_64QAM\_15\_0\_MidCH18900-1880



Band2\_3MHz\_16QAM\_15\_0\_HighCH19185-1908.5



Band2\_3MHz\_64QAM\_15\_0\_HighCH19185-1908.5



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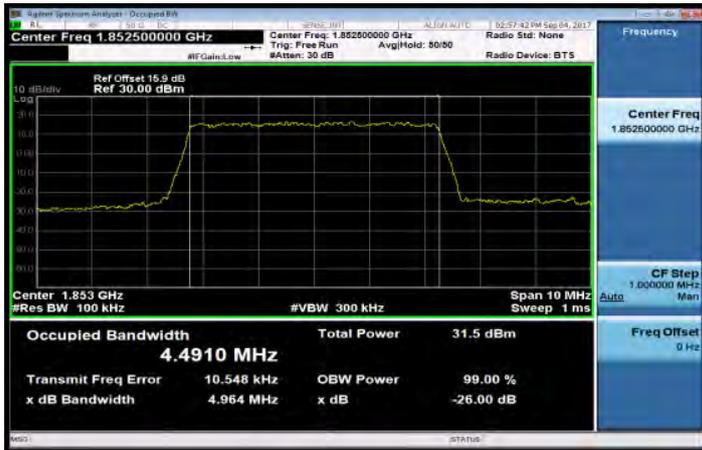
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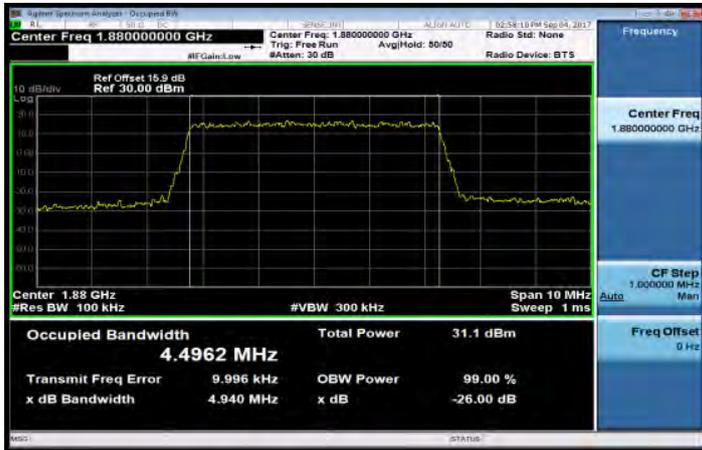
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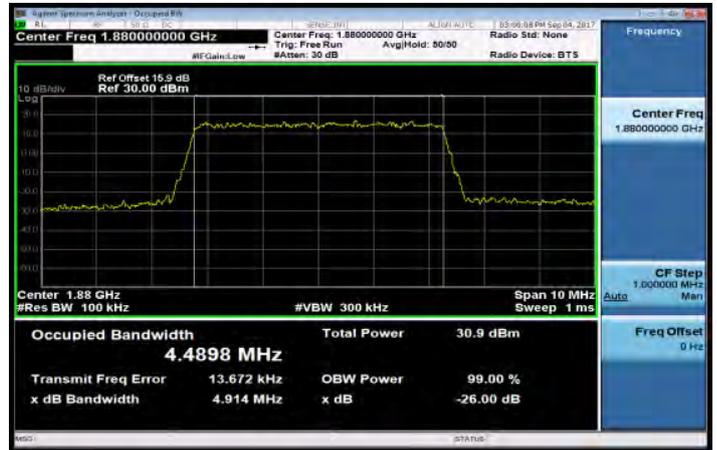
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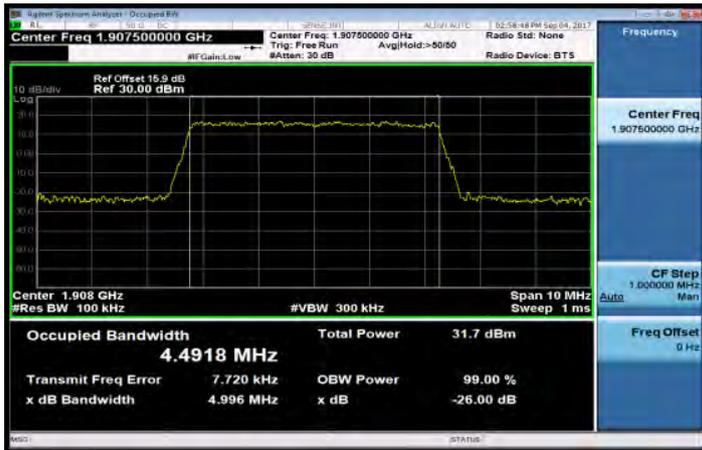
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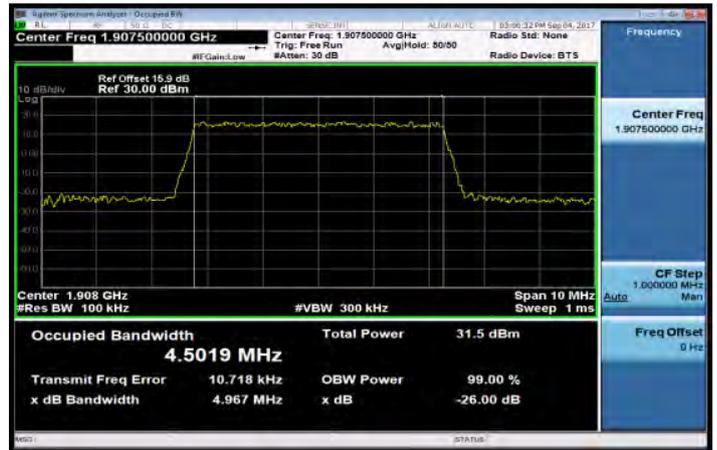
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Band2\_5MHz\_QPSK\_25\_0\_HighCH19175-1907.5



Band2\_5MHz\_16QAM\_25\_0\_HighCH19175-1907.5



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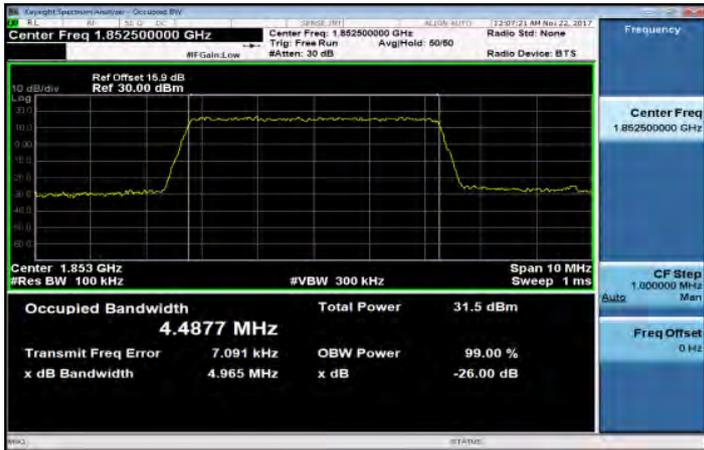
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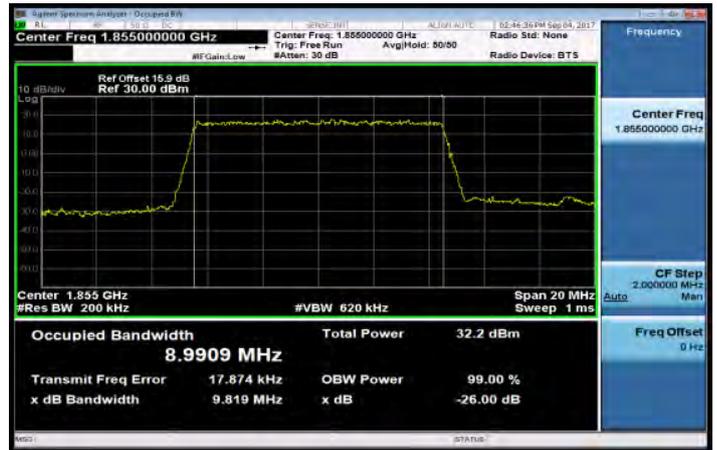
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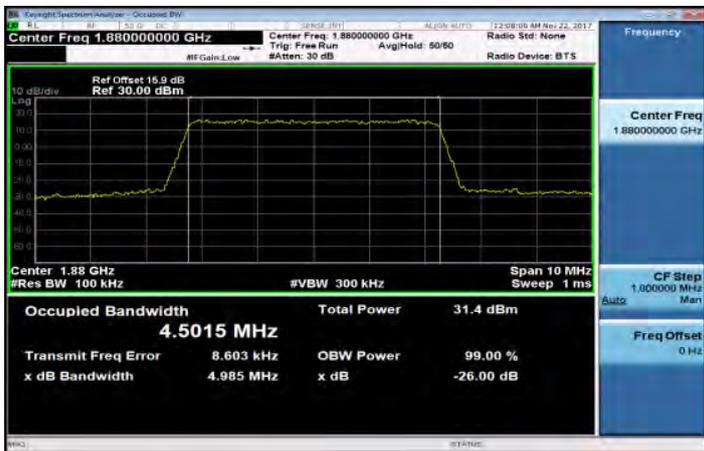
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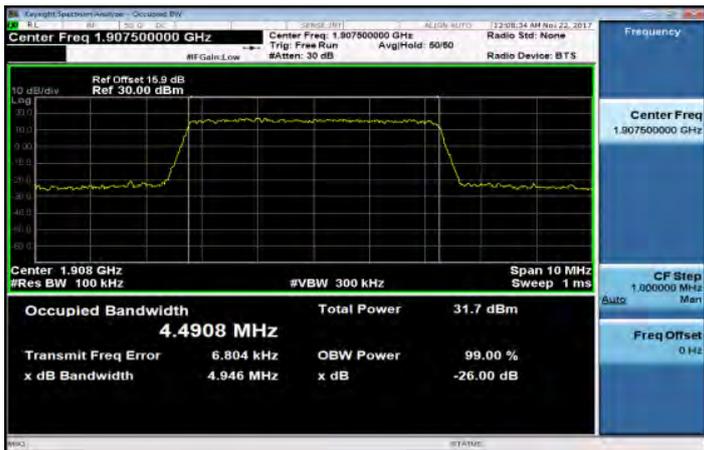
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Band2\_5MHz\_64QAM\_25\_0\_HighCH19175-1907.5



Band2\_10MHz\_QPSK\_50\_0\_HighCH19150-1905



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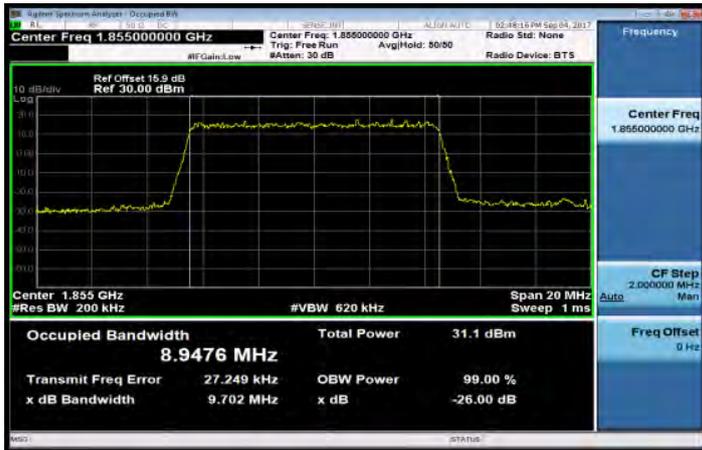
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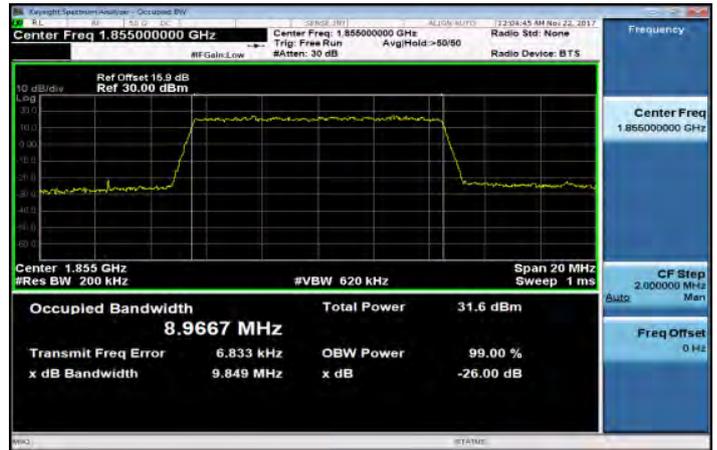
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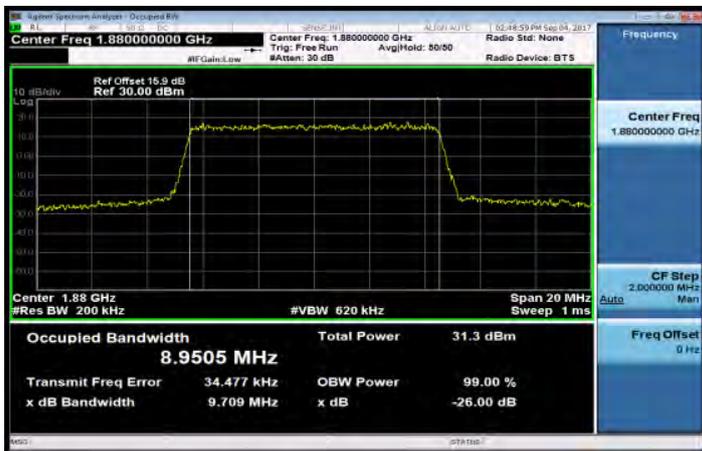
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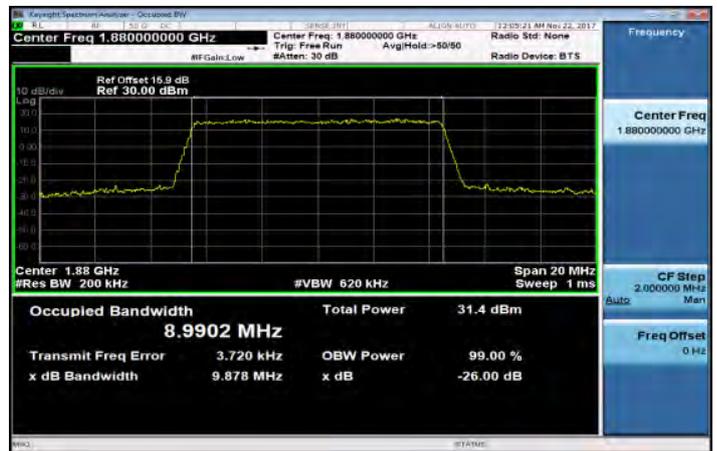
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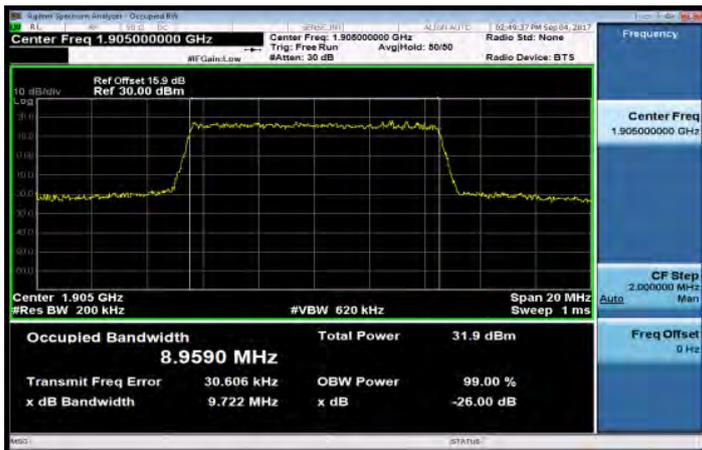
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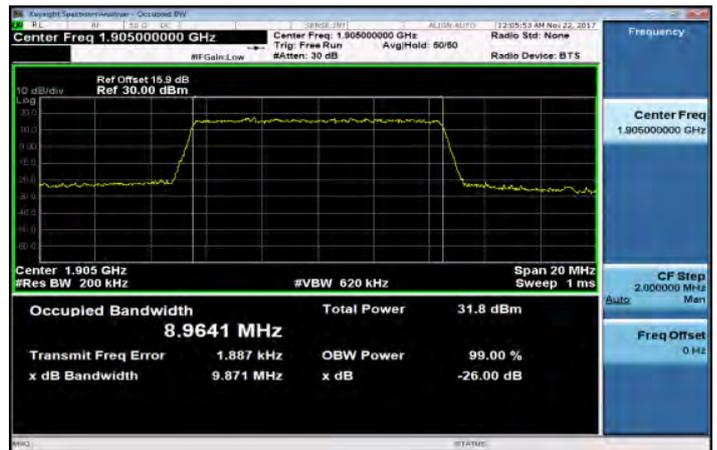
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Band2\_10MHz\_16QAM\_50\_0\_HighCH19150-1905



Band2\_10MHz\_64QAM\_50\_0\_HighCH19150-1905

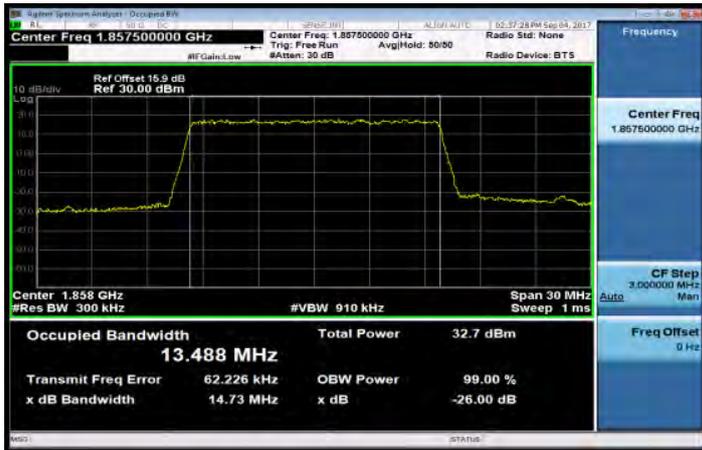


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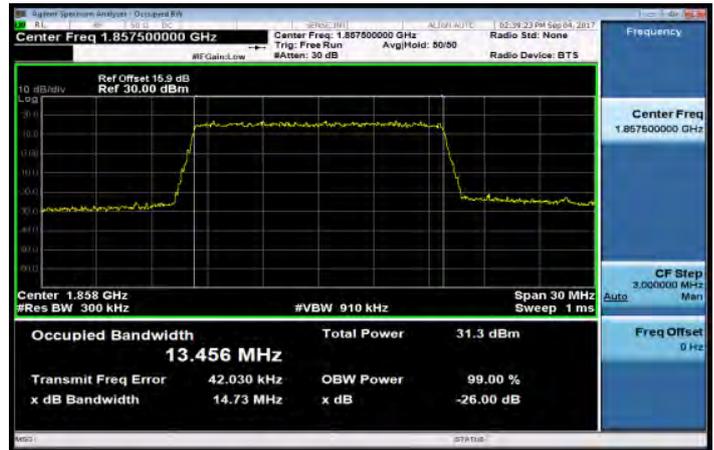
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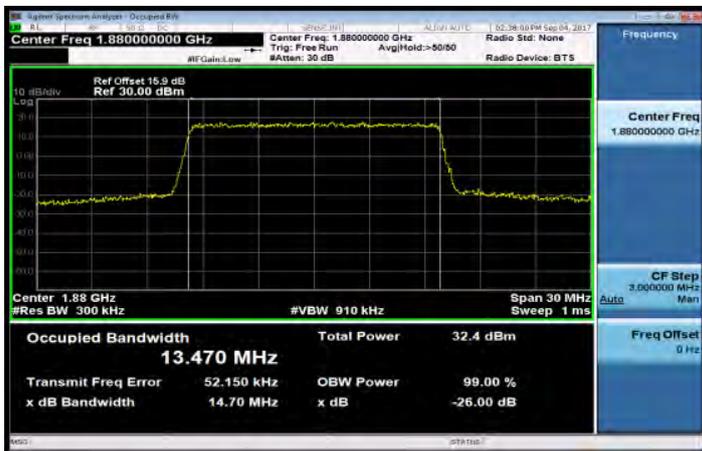
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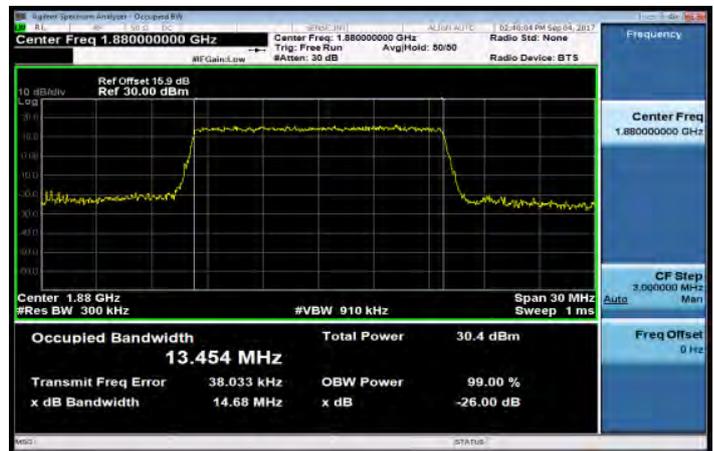
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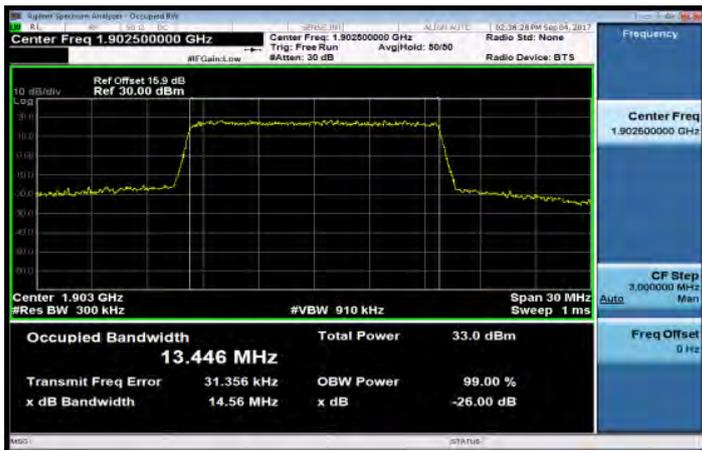
Band2\_15MHz\_QPSK\_75\_0\_MidCH18900-1880



Band2\_15MHz\_16QAM\_75\_0\_MidCH18900-1880



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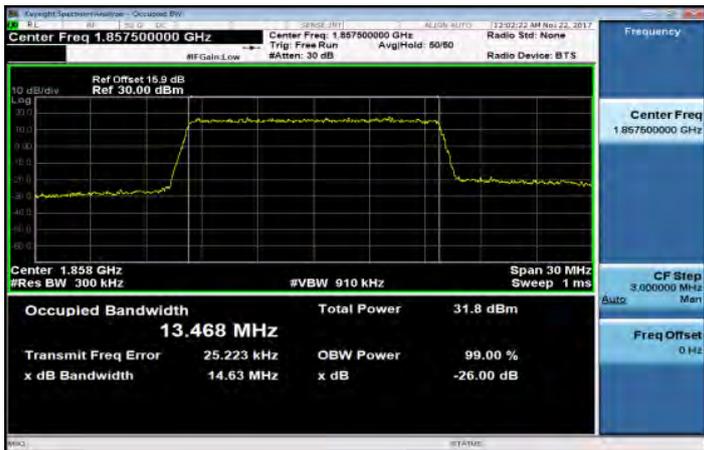


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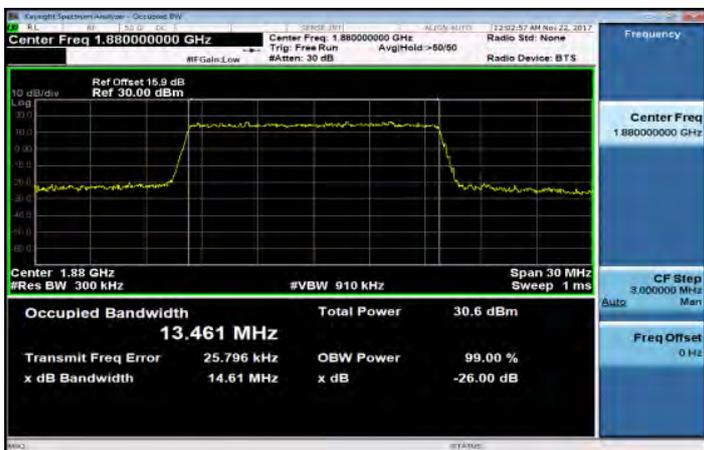
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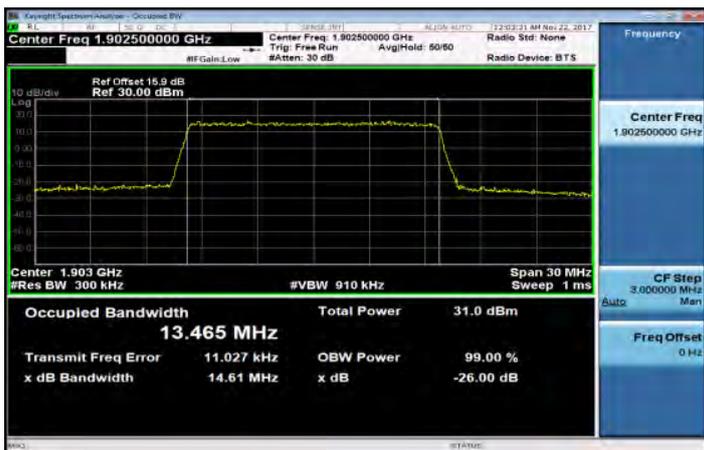
Band2\_15MHz\_64QAM\_75\_0\_MidCH18900-1880



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Band2\_15MHz\_64QAM\_75\_0\_HighCH19125-1902.5



Band2\_20MHz\_QPSK\_100\_0\_HighCH19100-1900



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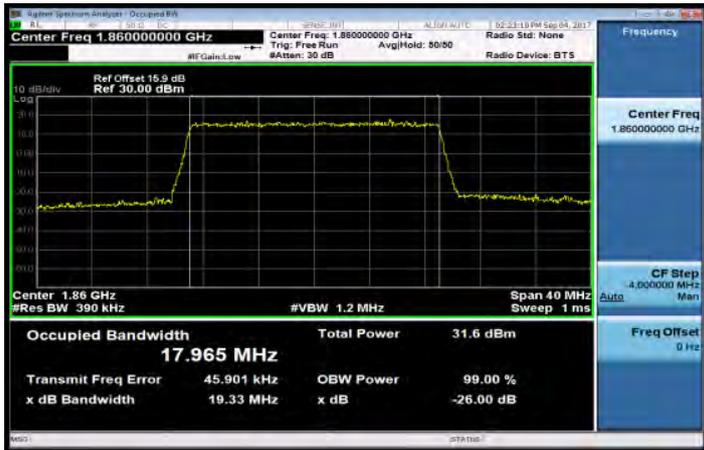
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Band2\_20MHz\_16QAM\_100\_0\_LowCH18700-1860



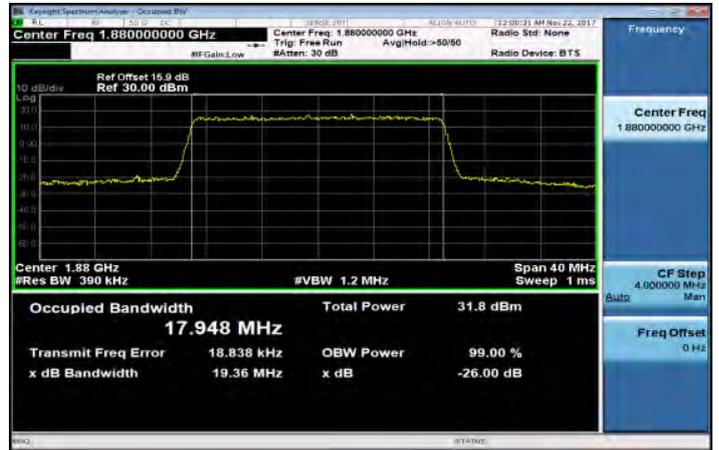
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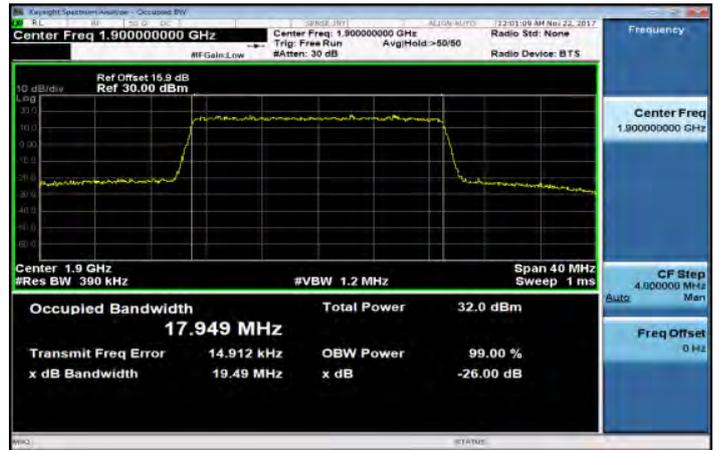
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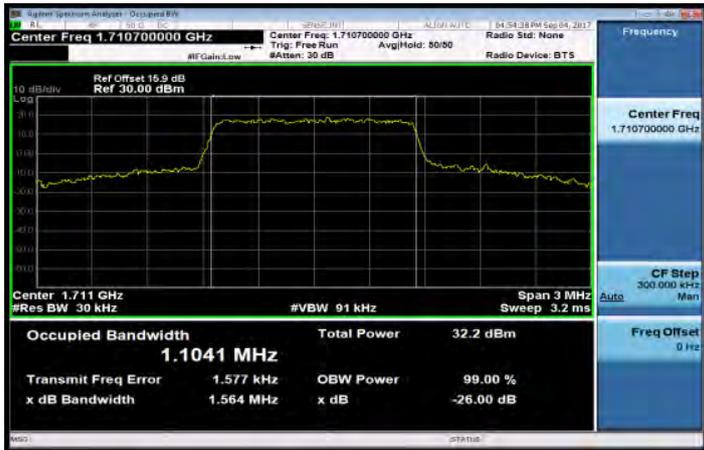


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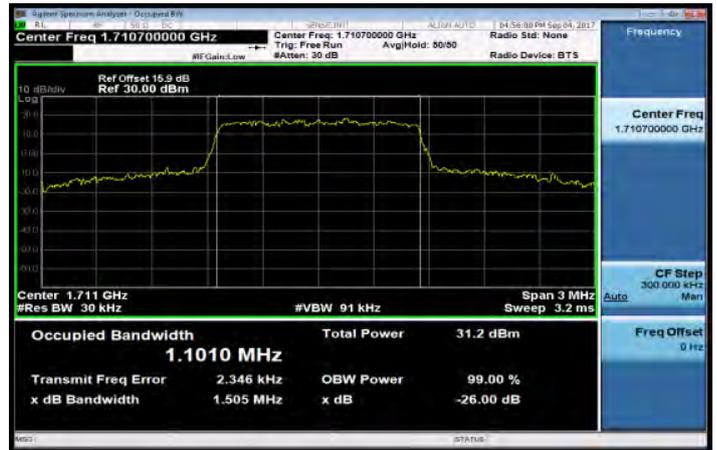
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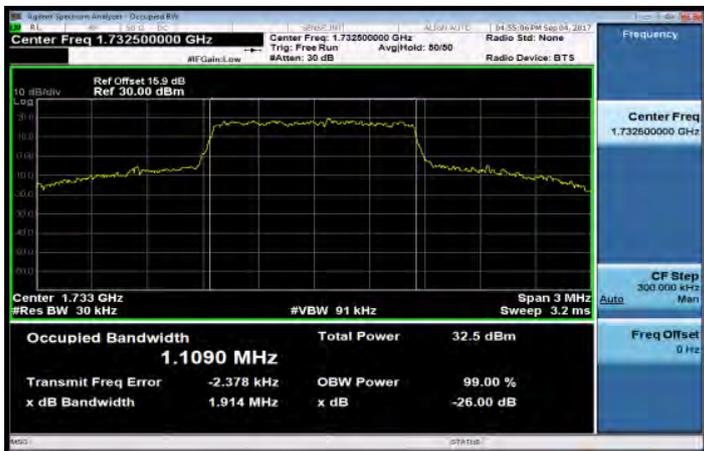
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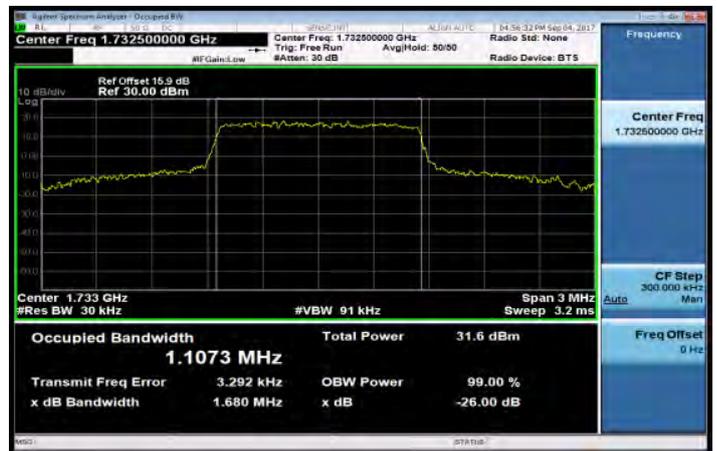
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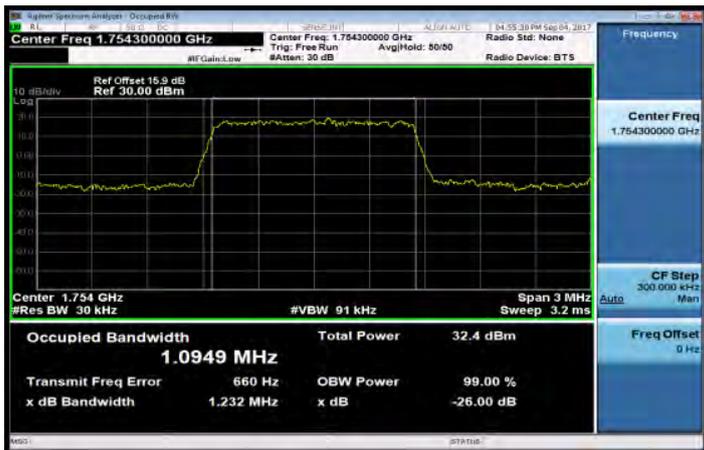
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Band4\_1\_4MHz\_16QAM\_6\_0\_MidCH20175-1732.5



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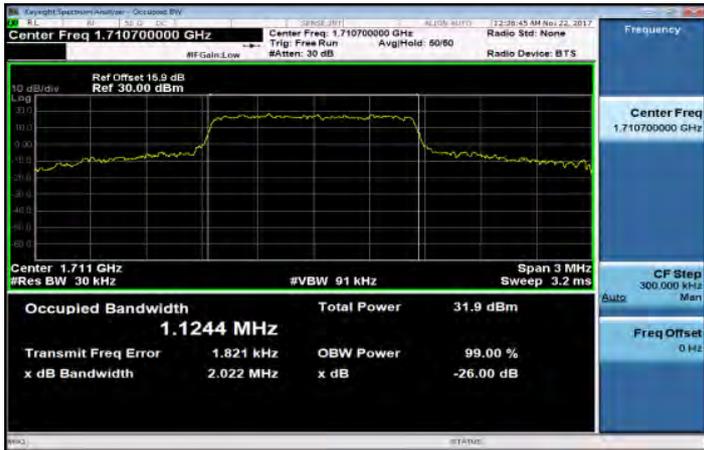


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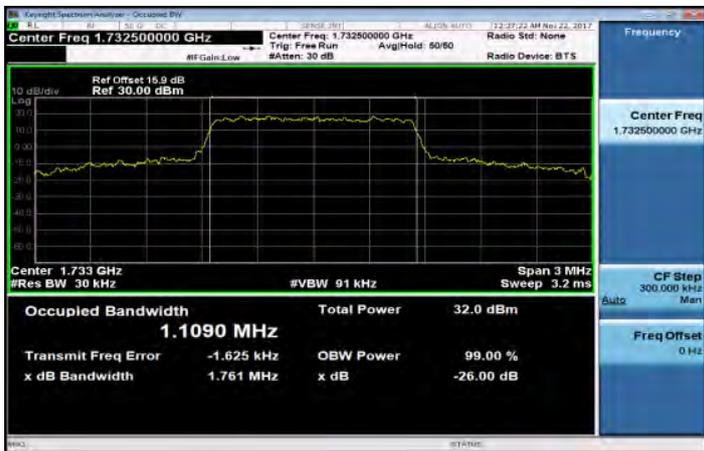
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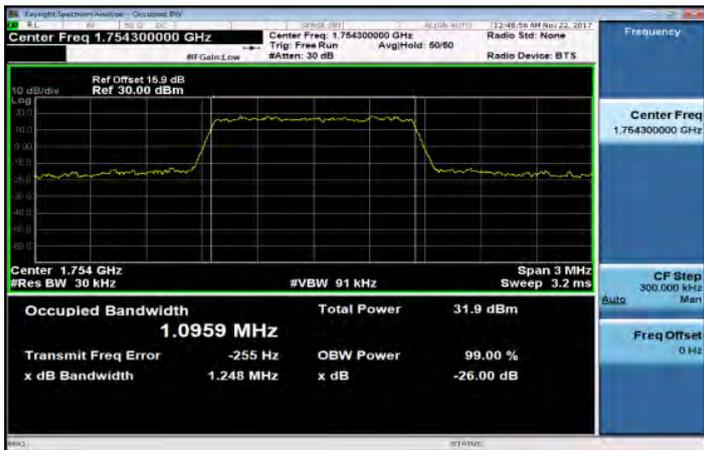
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Band4\_3MHz\_QPSK\_15\_0\_MidCH20175-1732.5



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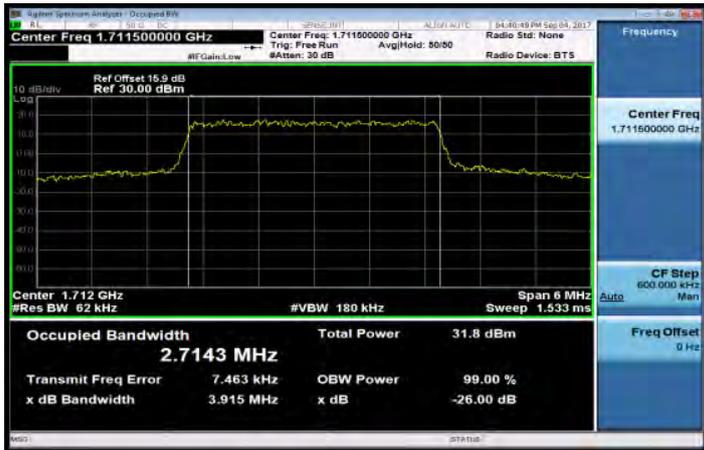


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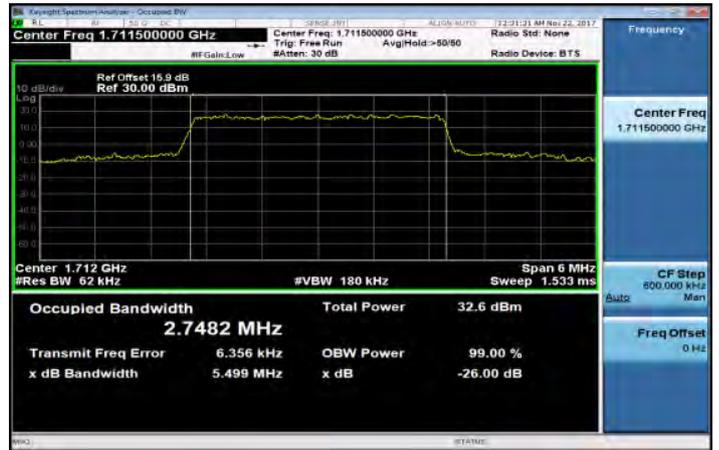
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Band4\_3MHz\_16QAM\_15\_0\_LowCH19965-1711.5



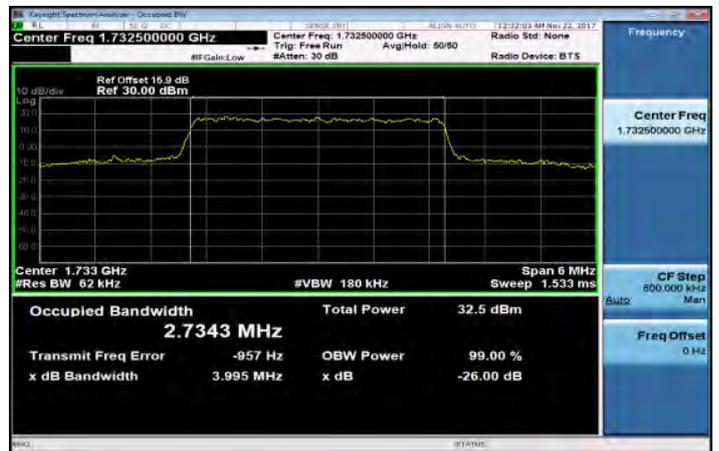
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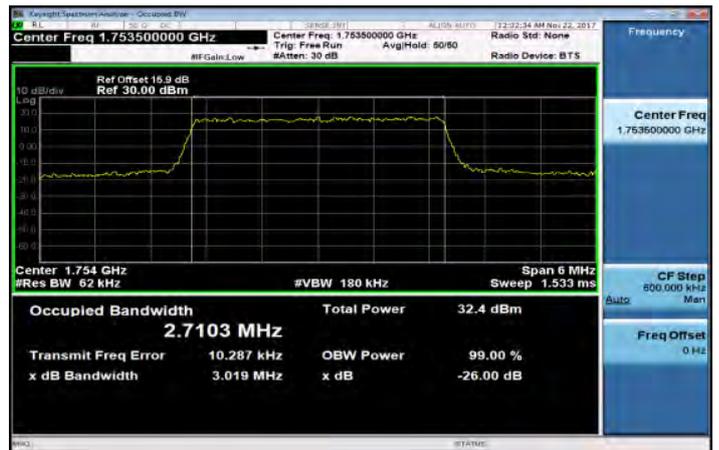
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Band4\_3MHz\_16QAM\_15\_0\_HighCH20385-1753.5



Band4\_3MHz\_64QAM\_15\_0\_HighCH20385-1753.5



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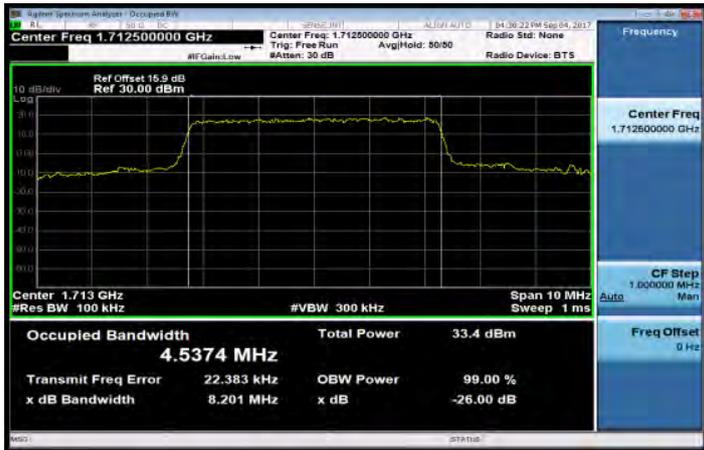
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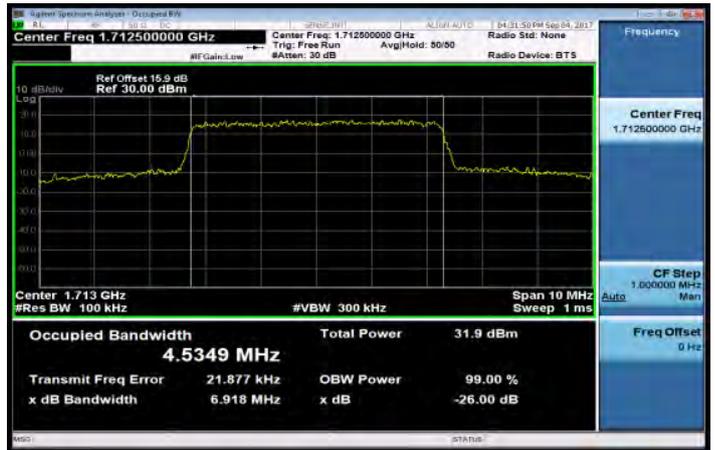
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Band4\_5MHz\_QPSK\_25\_0\_LowCH19975-1712.5



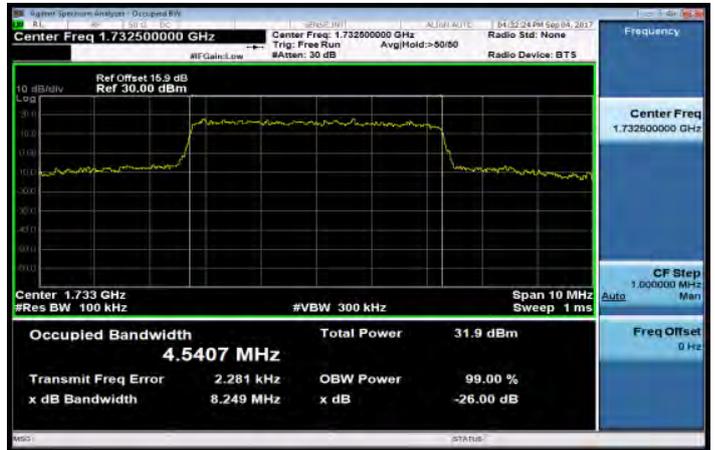
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Band4\_5MHz\_QPSK\_25\_0\_MidCH20175-1732.5



Band4\_5MHz\_16QAM\_25\_0\_MidCH20175-1732.5



Band4\_5MHz\_QPSK\_25\_0\_HighCH20375-1752.5



Band4\_5MHz\_16QAM\_25\_0\_HighCH20375-1752.5

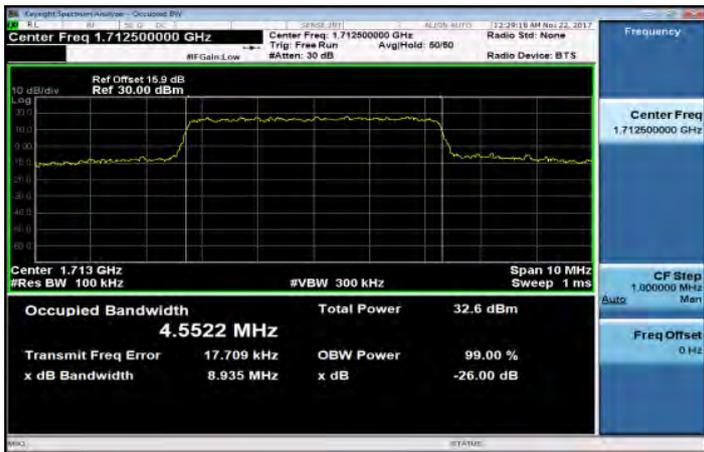


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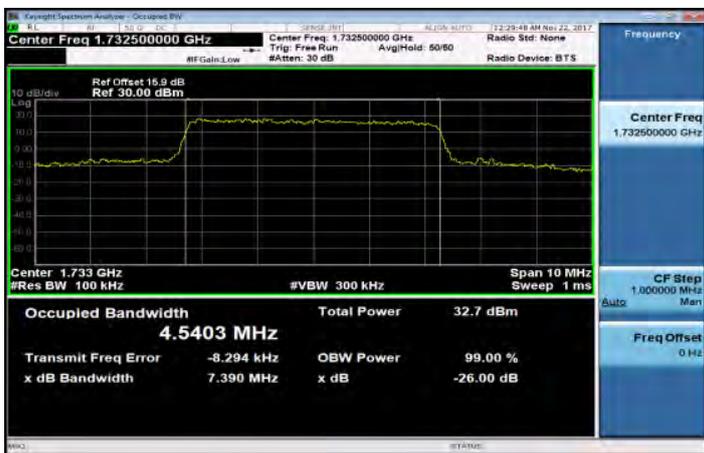
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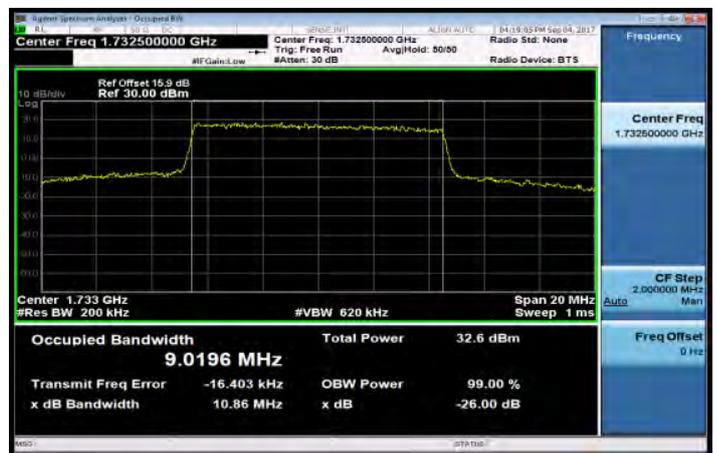
Band4\_10MHz\_QPSK\_50\_0\_LowCH20000-1715



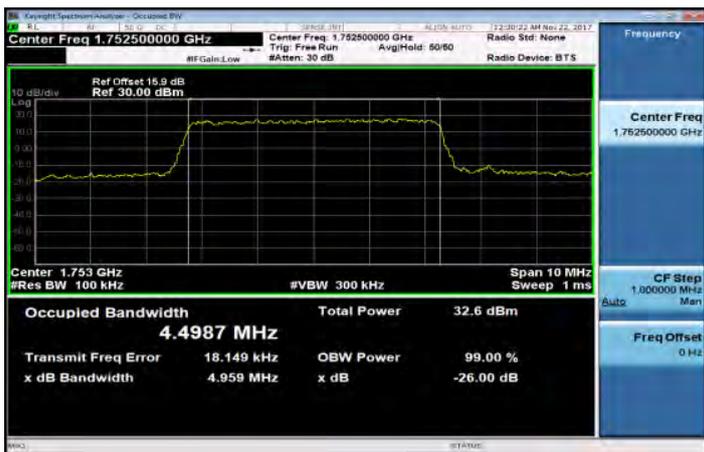
Band4\_5MHz\_64QAM\_25\_0\_MidCH20175-1732.5



Band4\_10MHz\_QPSK\_50\_0\_MidCH20175-1732.5



Band4\_5MHz\_64QAM\_25\_0\_HighCH20375-1752.5



Band4\_10MHz\_QPSK\_50\_0\_HighCH20350-1750

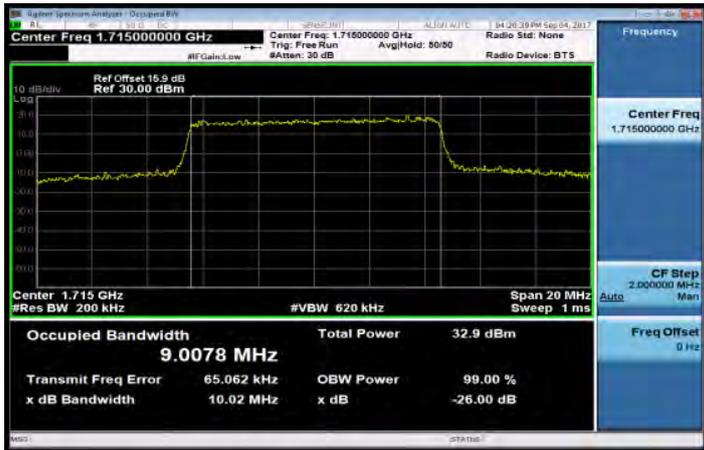


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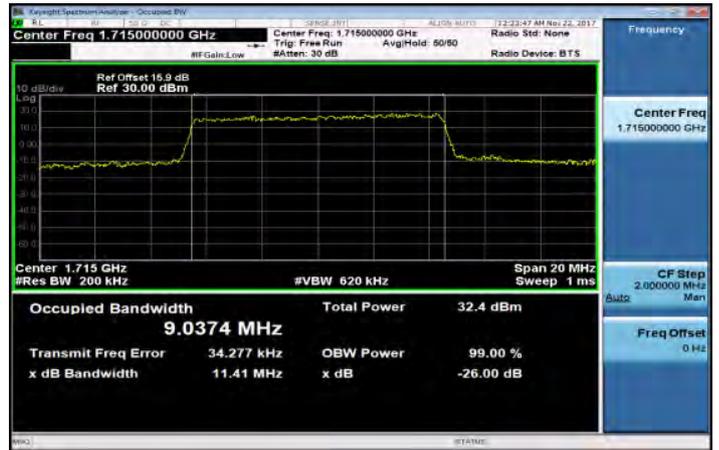
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Band4\_10MHz\_16QAM\_50\_0\_LowCH20000-1715



Band4\_10MHz\_64QAM\_50\_0\_LowCH20000-1715



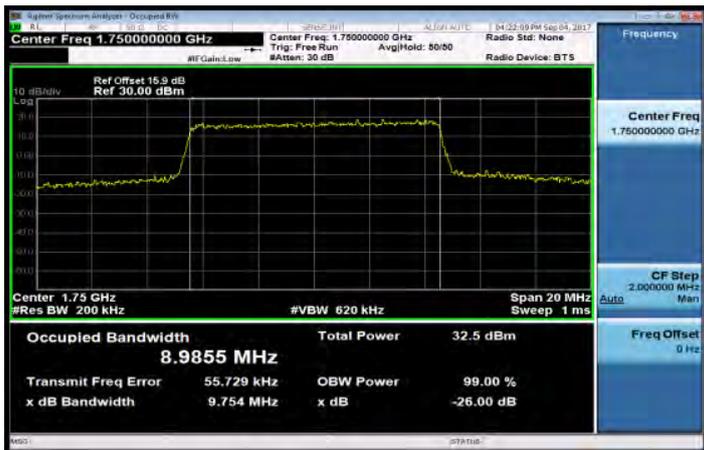
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Band4\_10MHz\_64QAM\_50\_0\_MidCH20175-1732.5



Band4\_10MHz\_16QAM\_50\_0\_HighCH20350-1750



Band4\_10MHz\_64QAM\_50\_0\_HighCH20350-1750

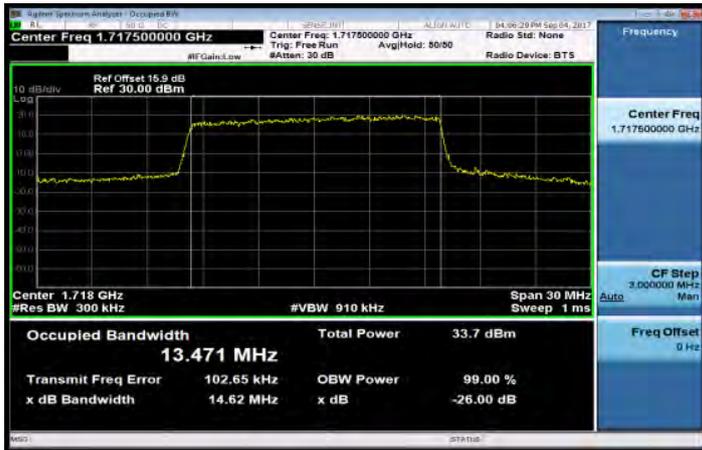


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Band4\_15MHz\_16QAM\_75\_0\_LowCH20025-1717.5



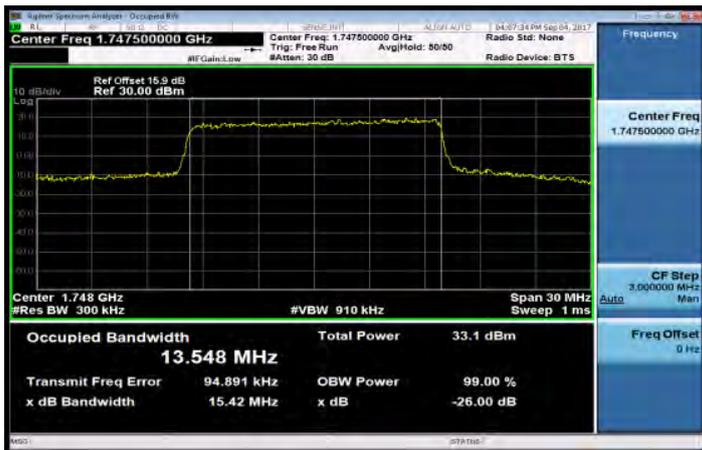
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Band4\_15MHz\_16QAM\_75\_0\_MidCH20175-1732.5



Band4\_15MHz\_QPSK\_75\_0\_HighCH20325-1747.5



Band4\_15MHz\_16QAM\_75\_0\_HighCH20325-1747.5

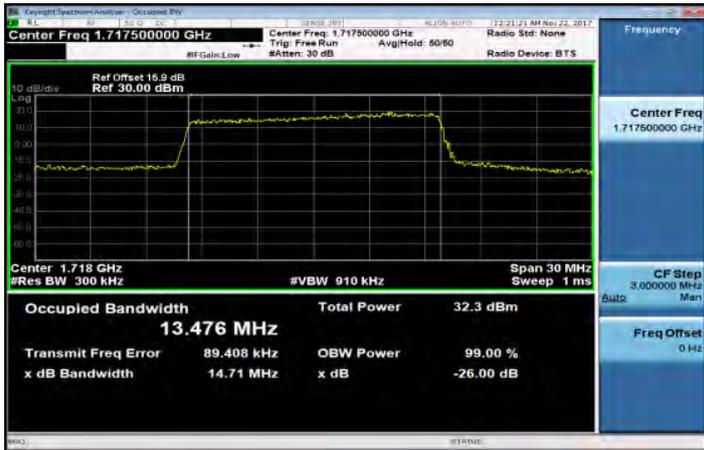


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Band4\_20MHz\_QPSK\_100\_0\_LowCH20050-1720



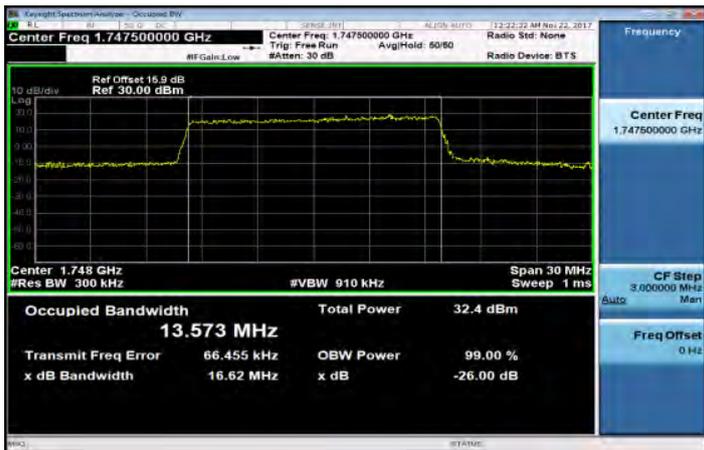
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Band4\_20MHz\_QPSK\_100\_0\_MidCH20175-1732.5



Band4\_15MHz\_64QAM\_75\_0\_HighCH20325-1747.5



Band4\_20MHz\_QPSK\_100\_0\_HighCH20300-1745



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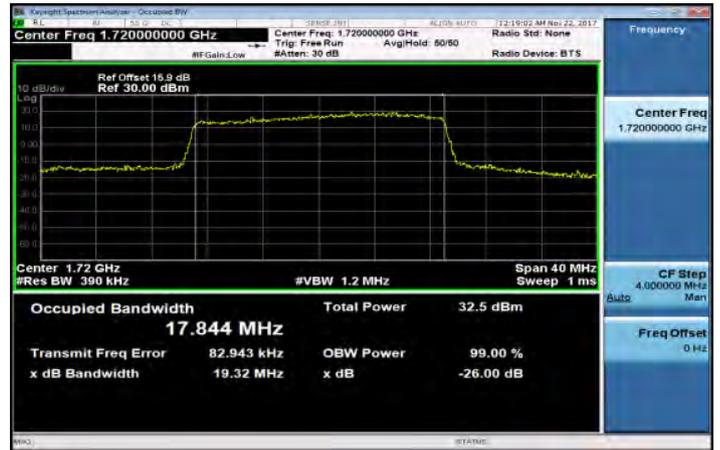
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Band4\_20MHz\_16QAM\_100\_0\_LowCH20050-1720



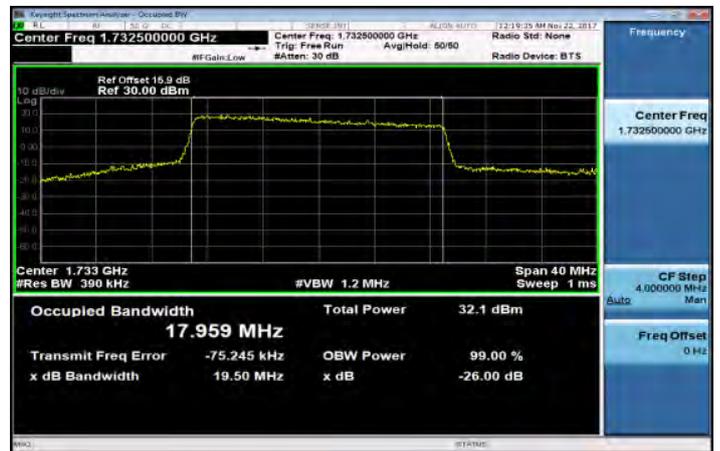
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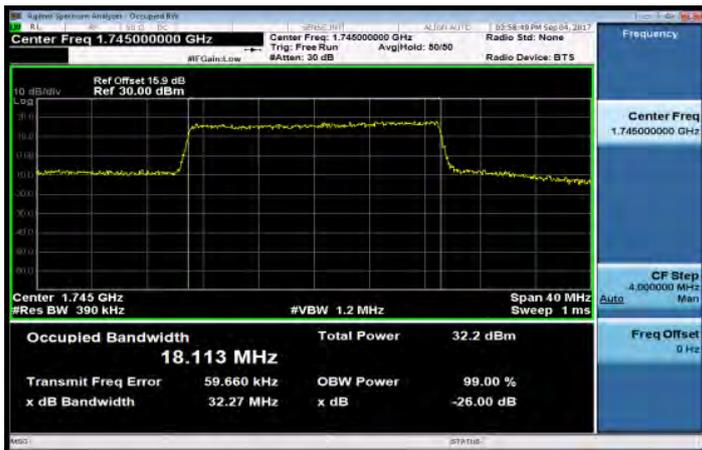
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Band4\_20MHz\_64QAM\_100\_0\_MidCH20175-1732.5



Band4\_20MHz\_16QAM\_100\_0\_HighCH20300-1745



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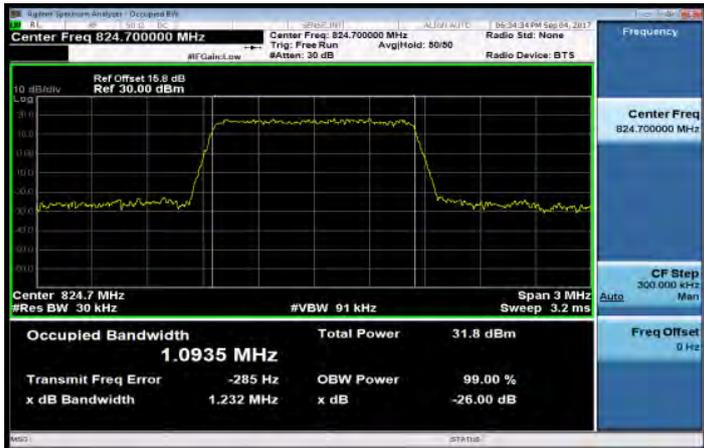


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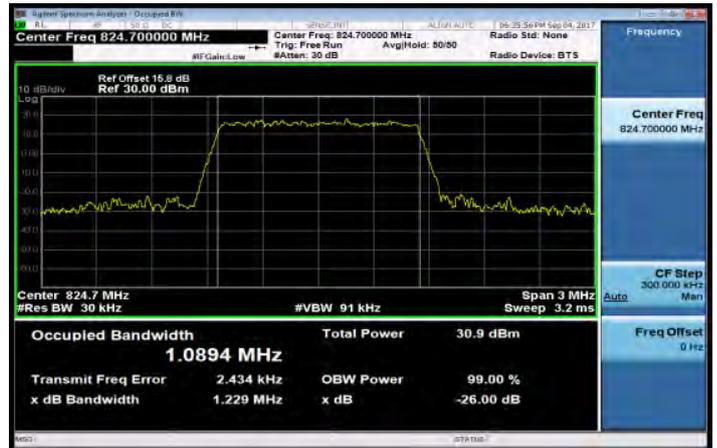
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Band5\_1\_4MHz\_QPSK\_6\_0\_LowCH20407-824.7



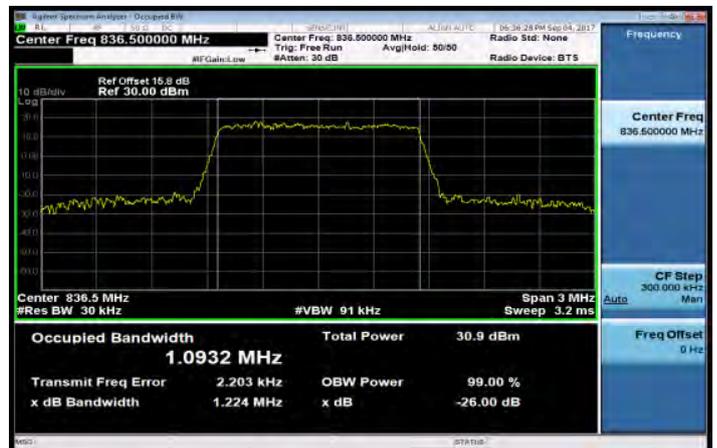
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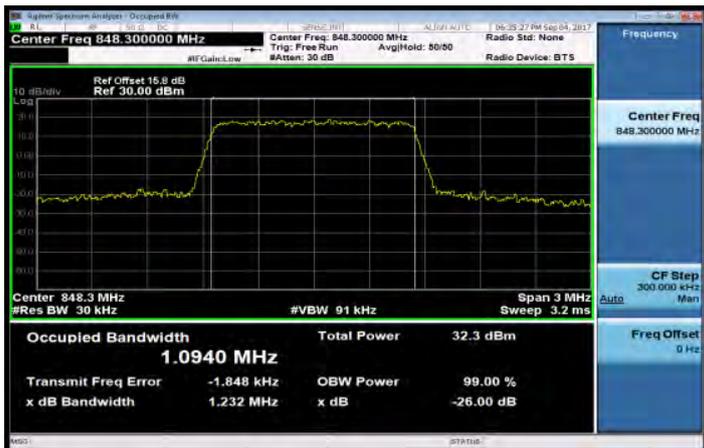
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Band5\_1\_4MHz\_16QAM\_6\_0\_MidCH20525-836.5



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Band5\_1\_4MHz\_16QAM\_6\_0\_HighCH20643-848.3

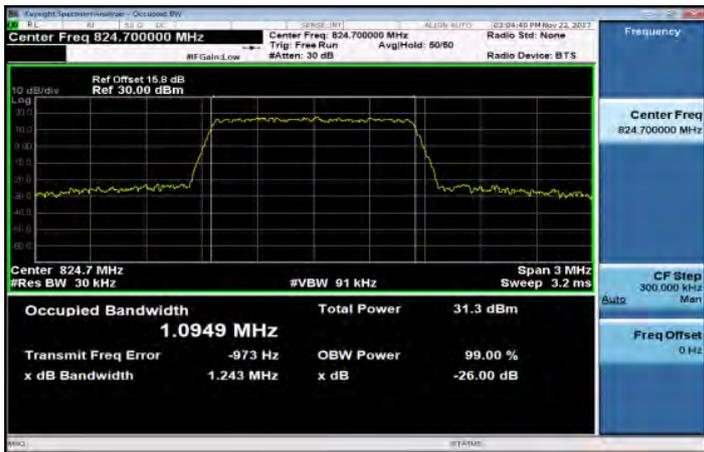


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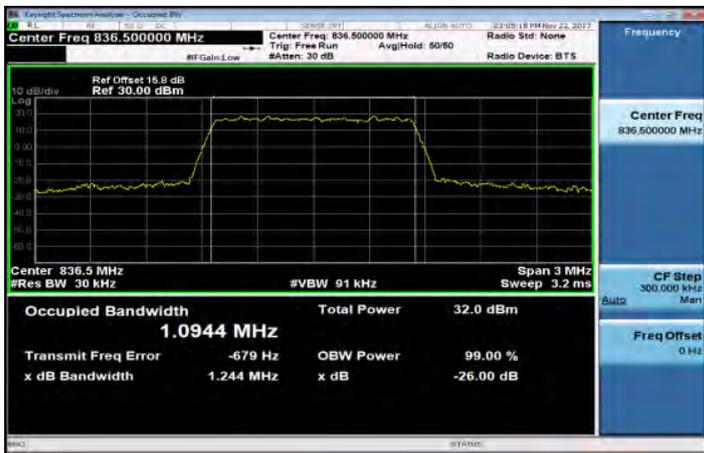
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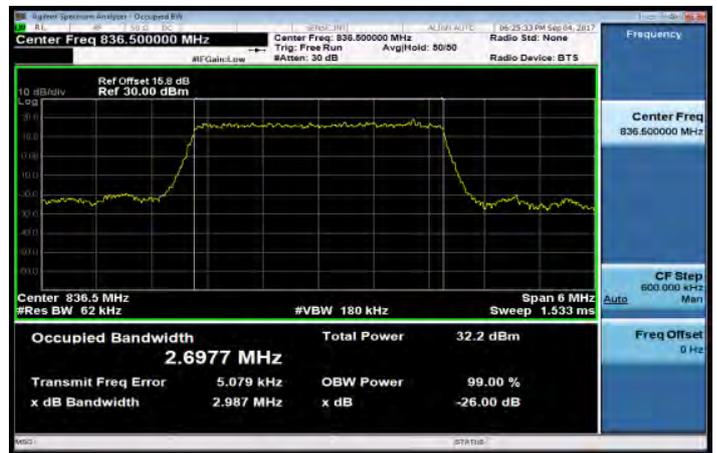
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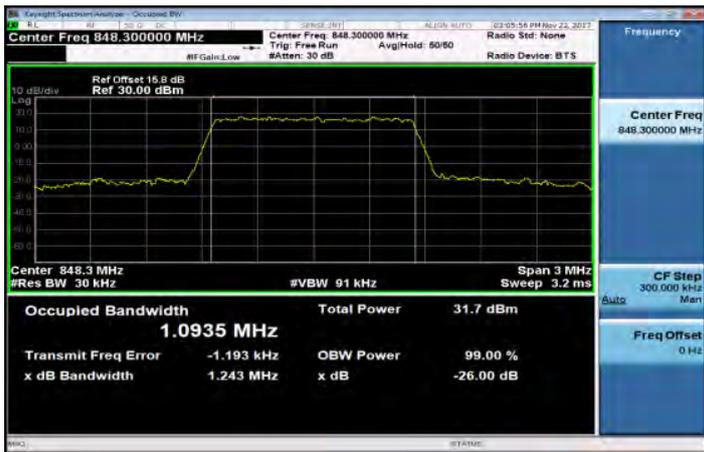
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Band5\_3MHz\_QPSK\_15\_0\_MidCH20525-836.5



Band5\_1\_4MHz\_64QAM\_6\_0\_HighCH20643-848.3



Band5\_3MHz\_QPSK\_15\_0\_HighCH20635-847.5



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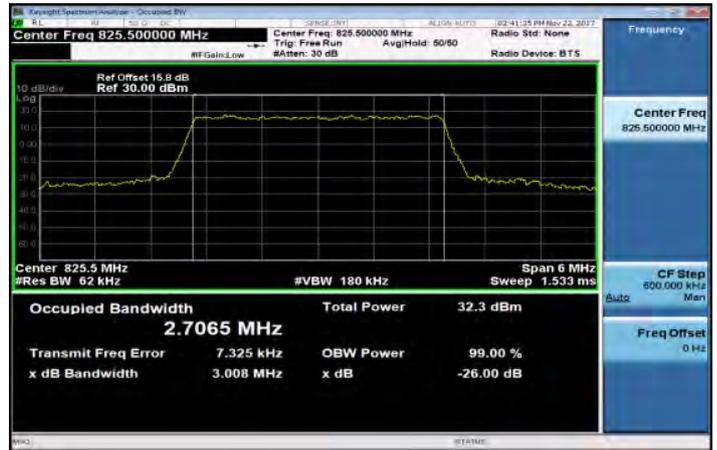
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Band5\_3MHz\_16QAM\_15\_0\_LowCH20415-825.5



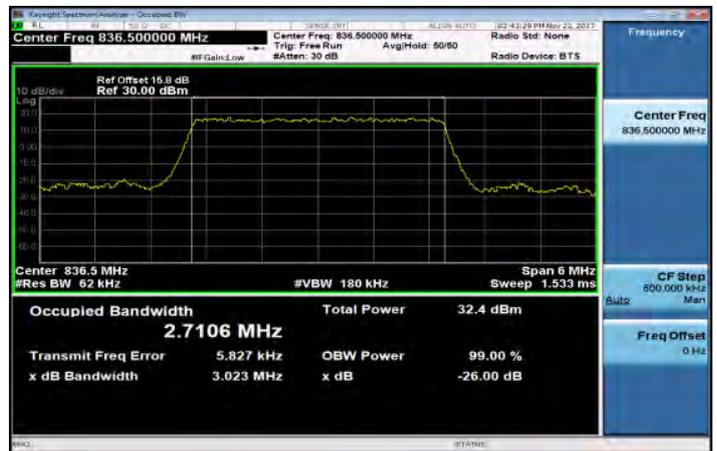
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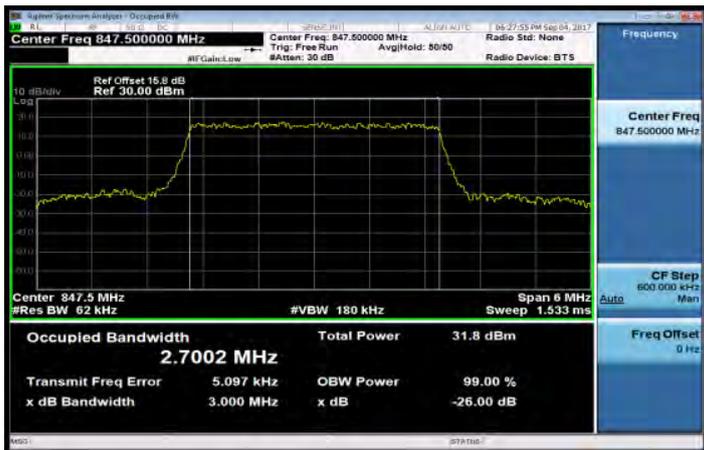
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Band5\_3MHz\_64QAM\_15\_0\_MidCH20525-836.5



Band5\_3MHz\_16QAM\_15\_0\_HighCH20635-847.5



Band5\_3MHz\_64QAM\_15\_0\_HighCH20635-847.5



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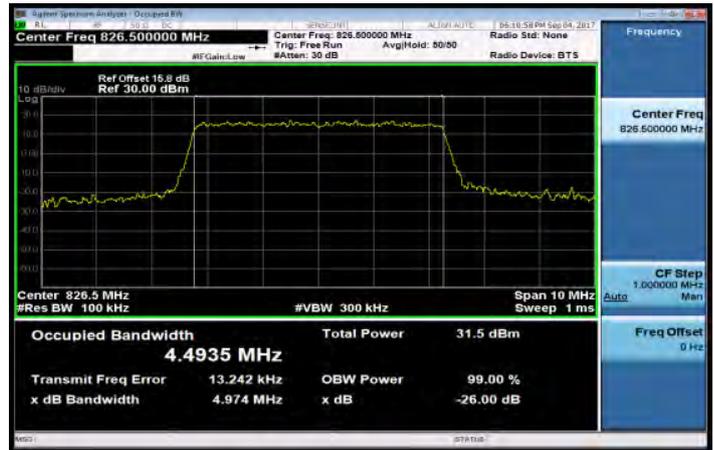
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Band5\_5MHz\_QPSK\_25\_0\_LowCH20425-826.5



Band5\_5MHz\_16QAM\_25\_0\_LowCH20425-826.5



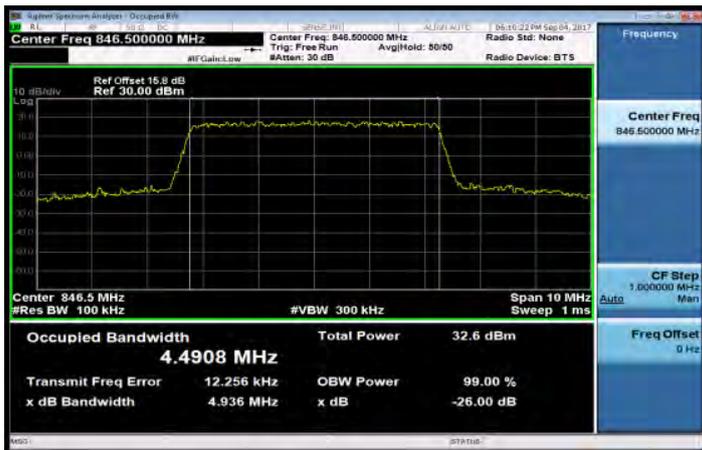
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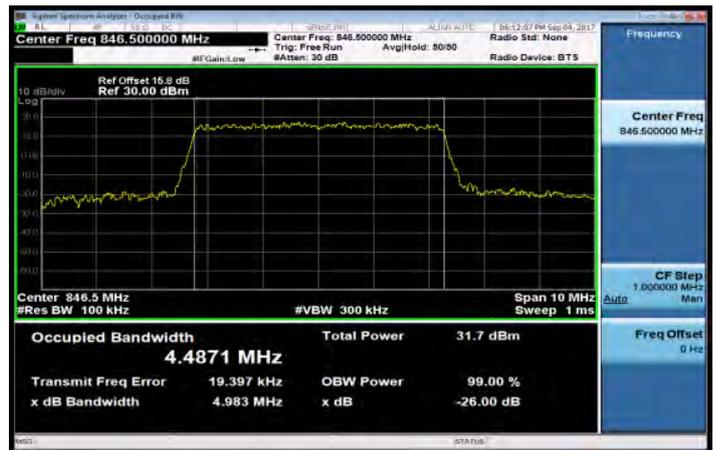
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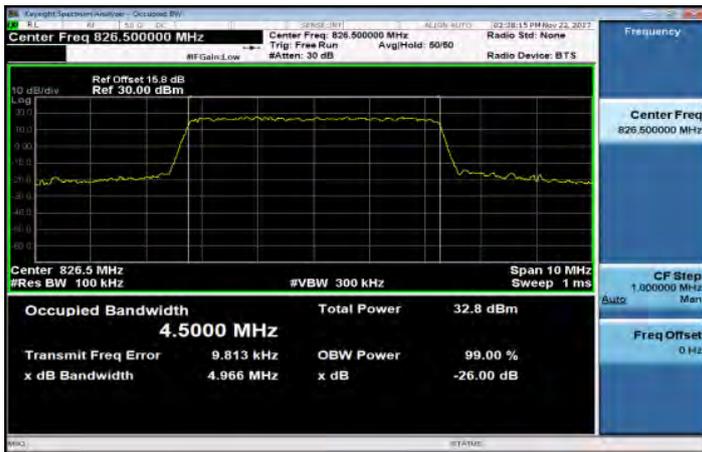


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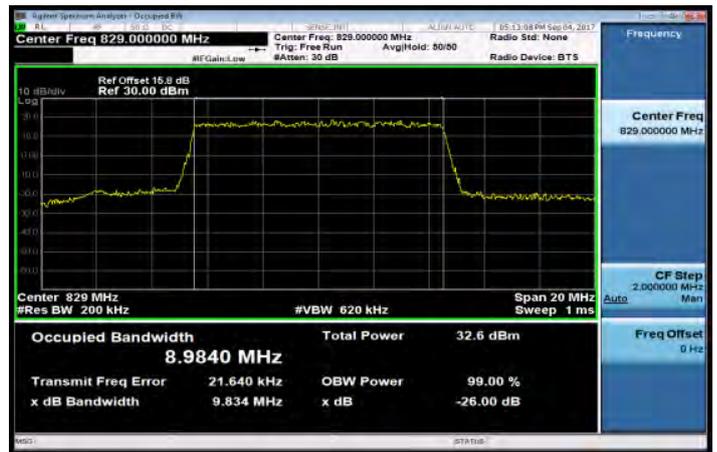
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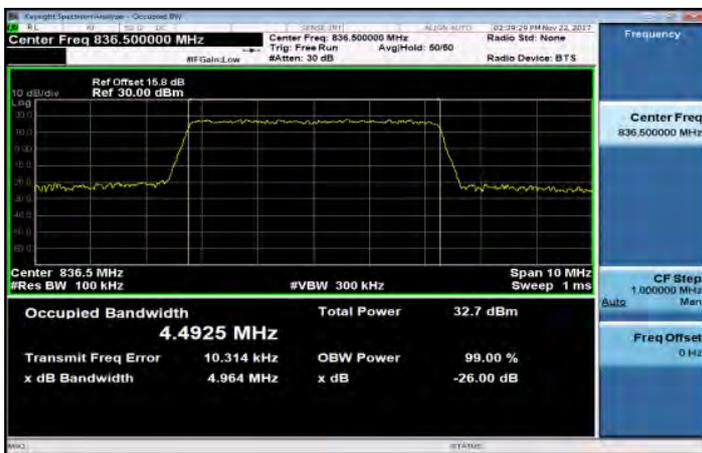
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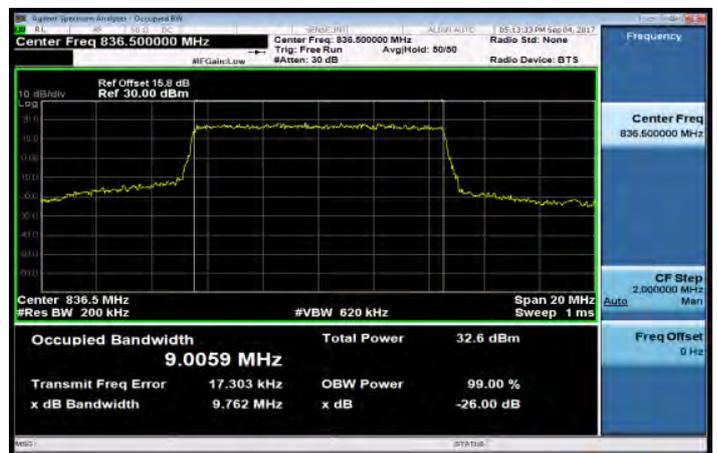
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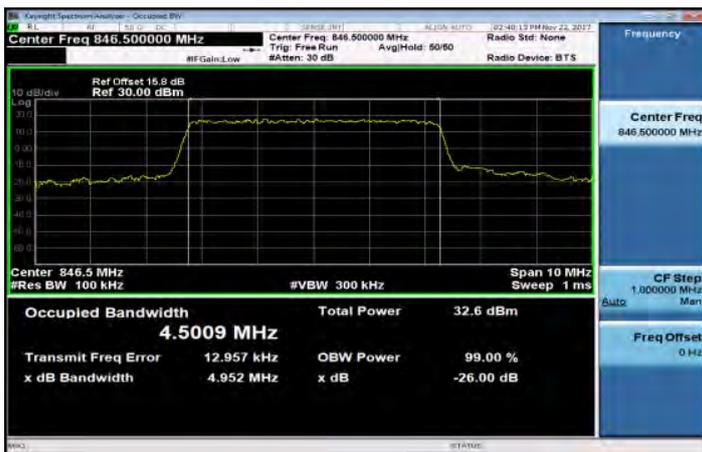
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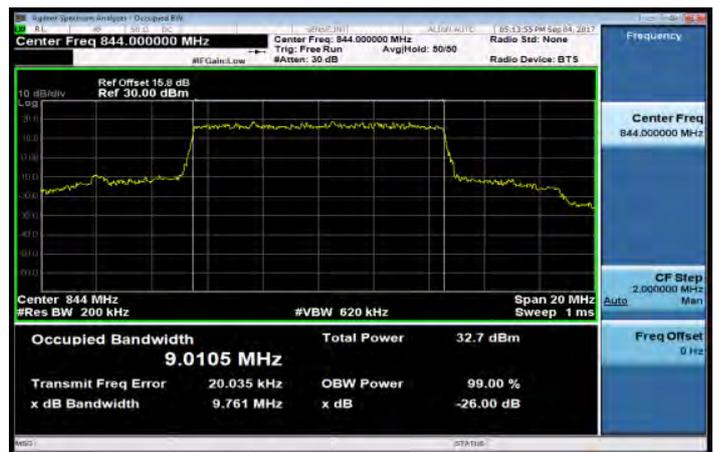
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Band5\_5MHz\_64QAM\_25\_0\_HighCH20625-846.5



Band5\_10MHz\_QPSK\_50\_0\_HighCH20600-844



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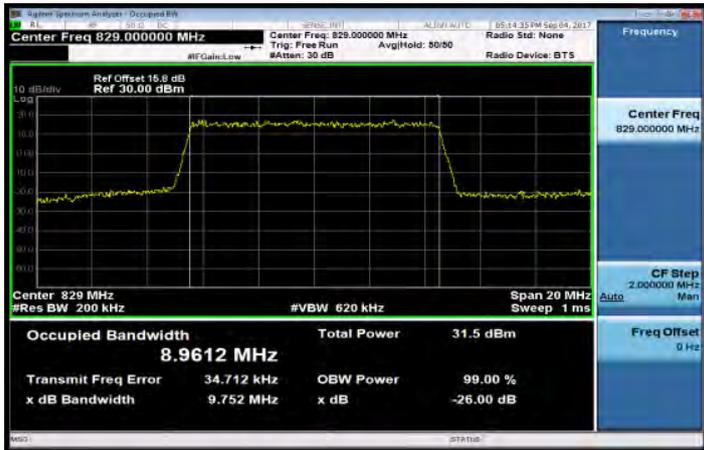
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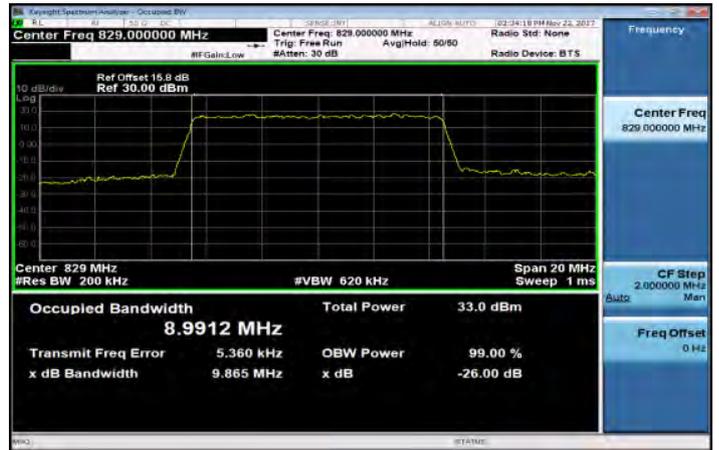
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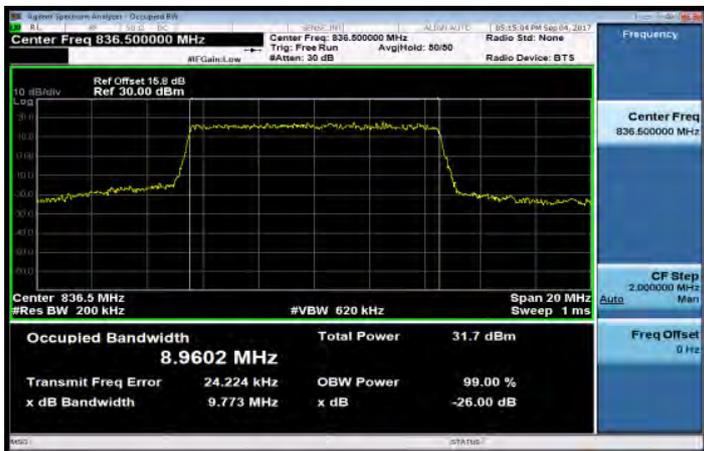
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Band5\_10MHz\_64QAM\_50\_0\_LowCH20450-829



Band5\_10MHz\_16QAM\_50\_0\_MidCH20525-836.5



Band5\_10MHz\_64QAM\_50\_0\_MidCH20525-836.5



Band5\_10MHz\_16QAM\_50\_0\_HighCH20600-844



Band5\_10MHz\_64QAM\_50\_0\_HighCH20600-844



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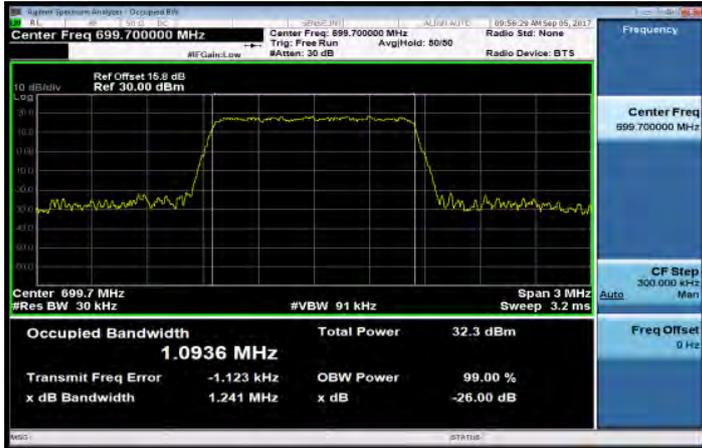
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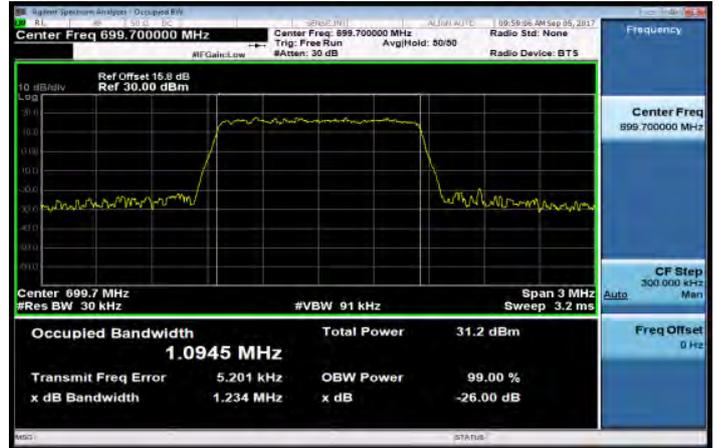
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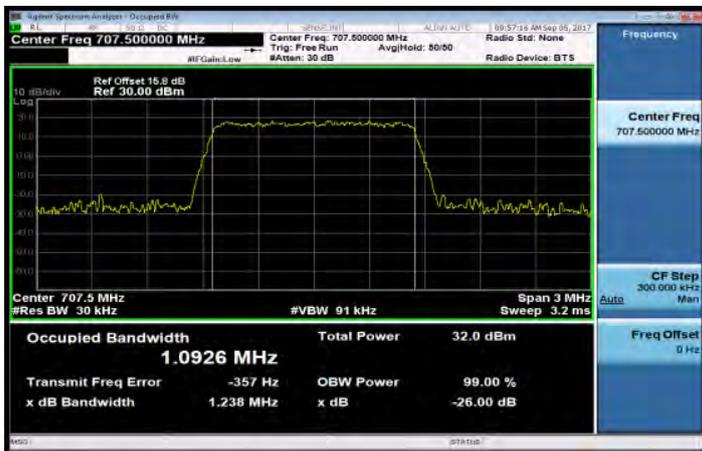
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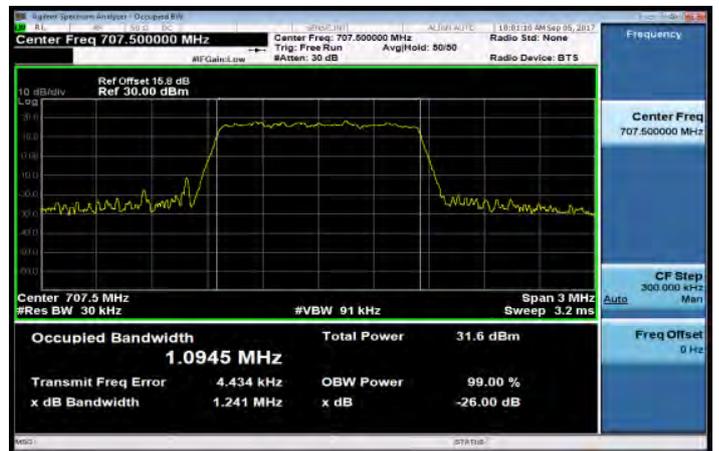
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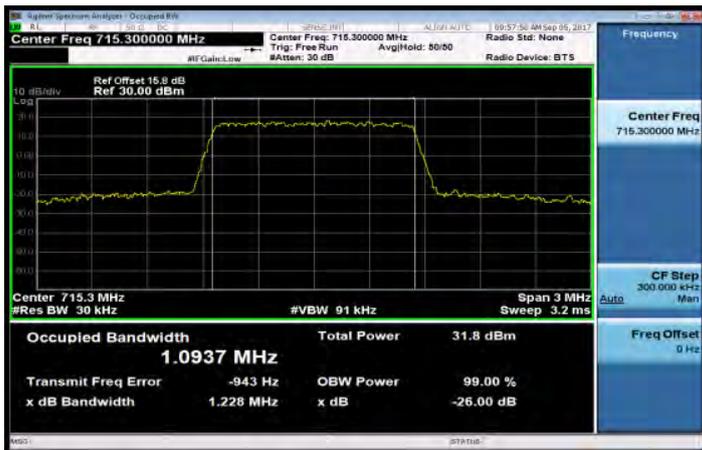
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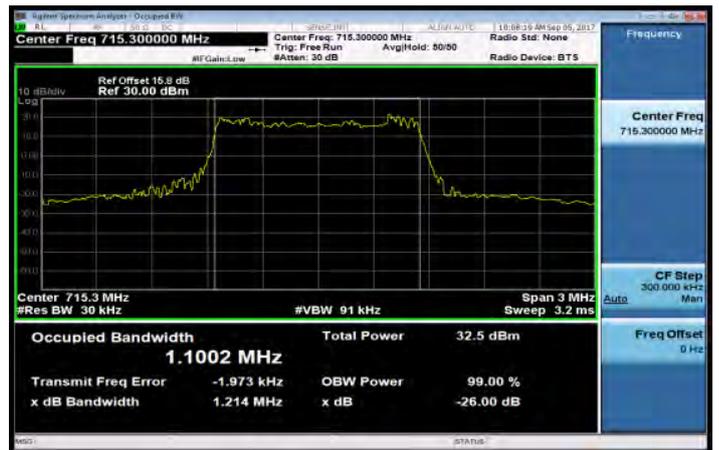
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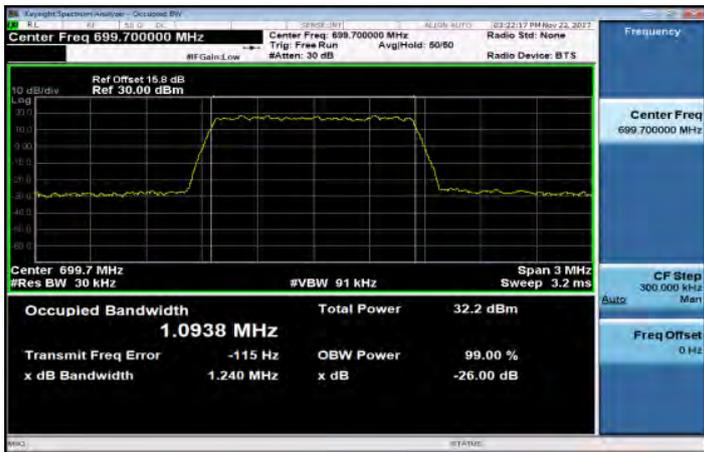


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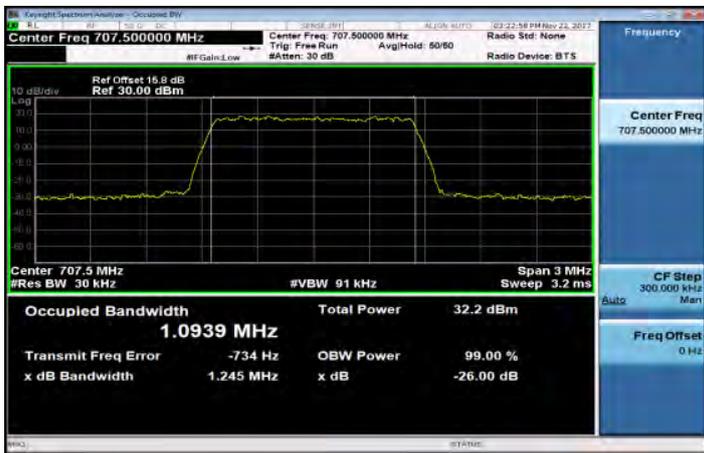
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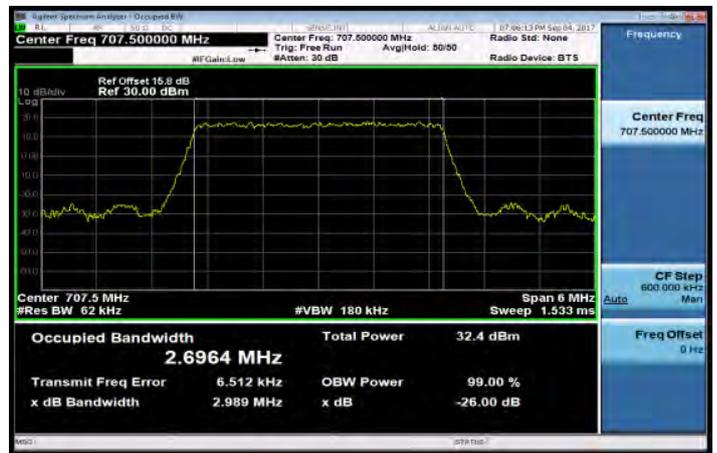
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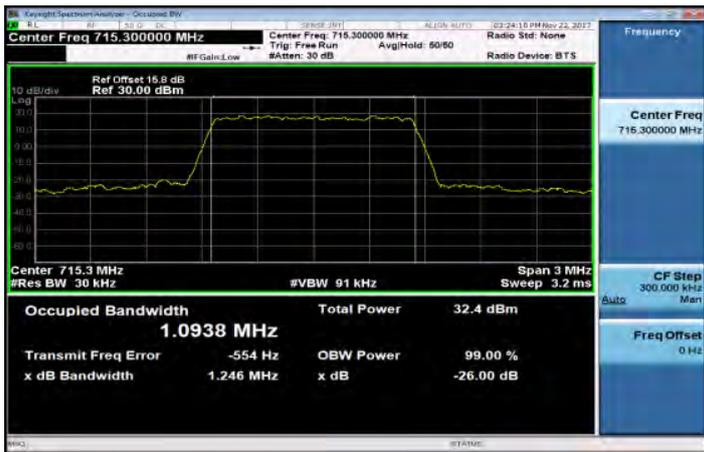
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Band12\_1\_4MHz\_64QAM\_6\_0\_HighCH23173-715.3



Band12\_3MHz\_QPSK\_15\_0\_HighCH23165-714.5



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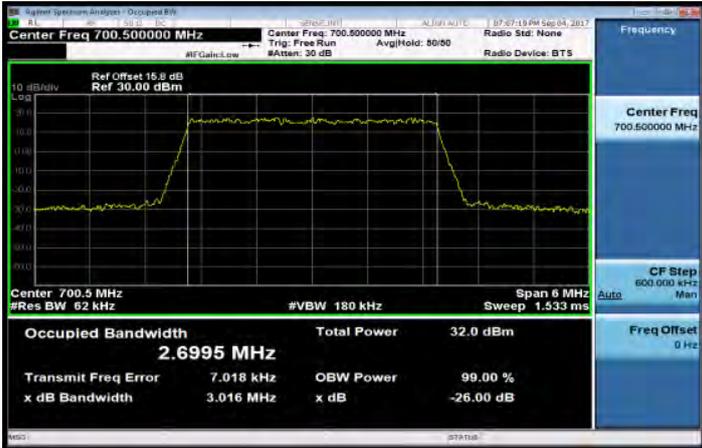
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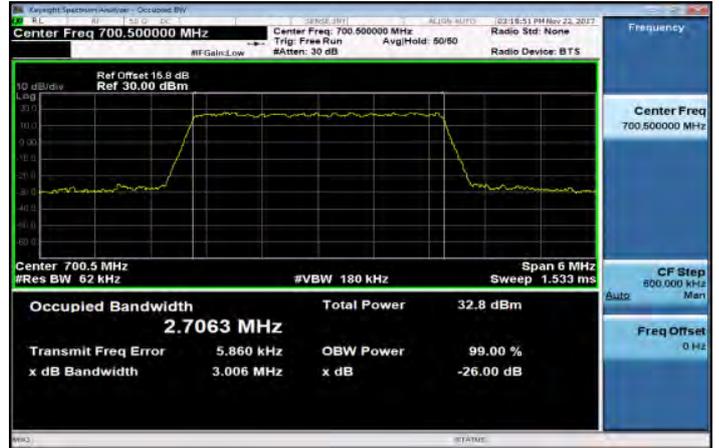
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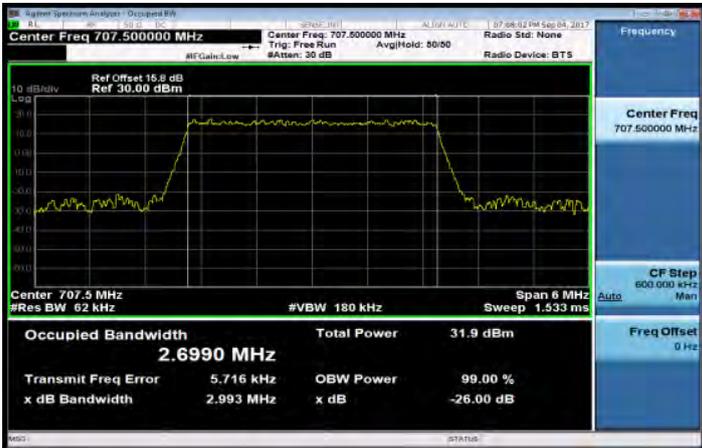
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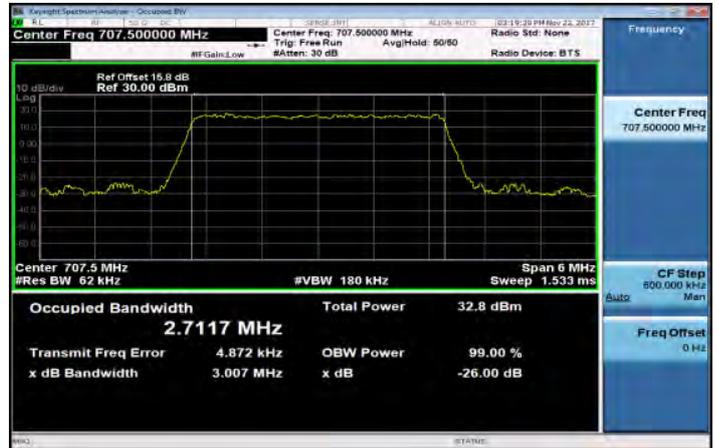
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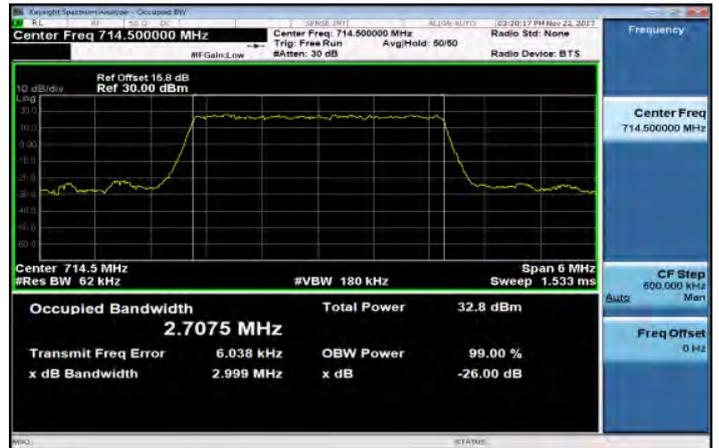
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Band12\_3MHz\_64QAM\_15\_0\_HighCH23165-714.5



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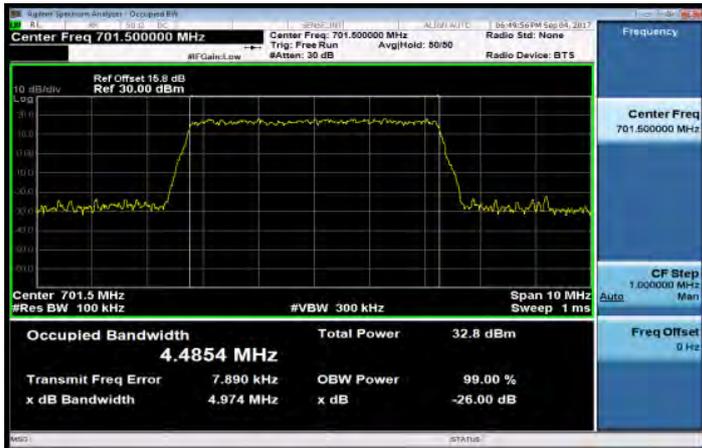
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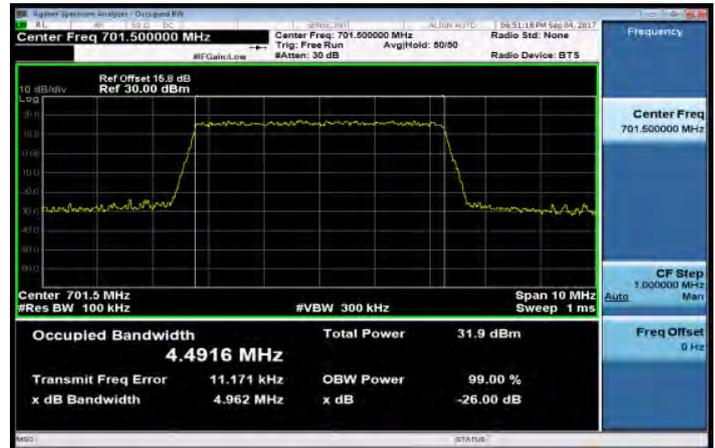
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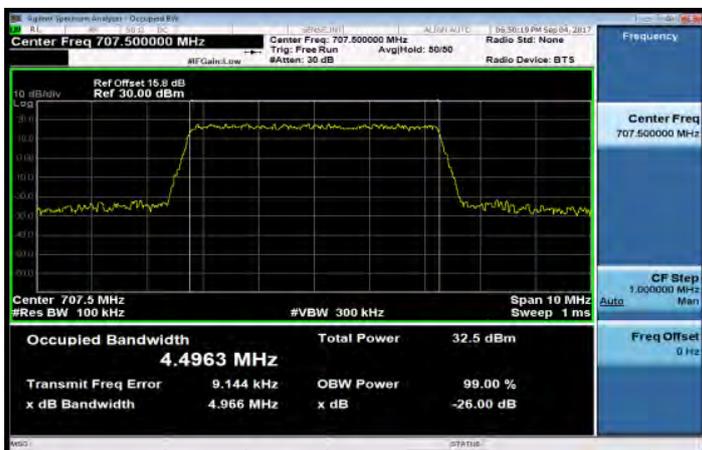
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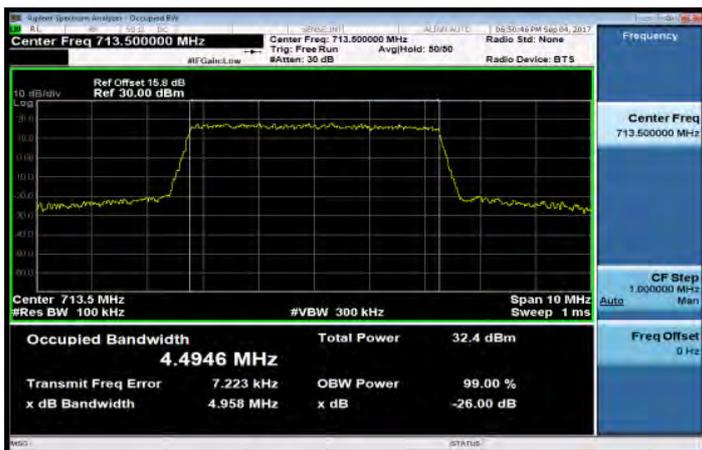
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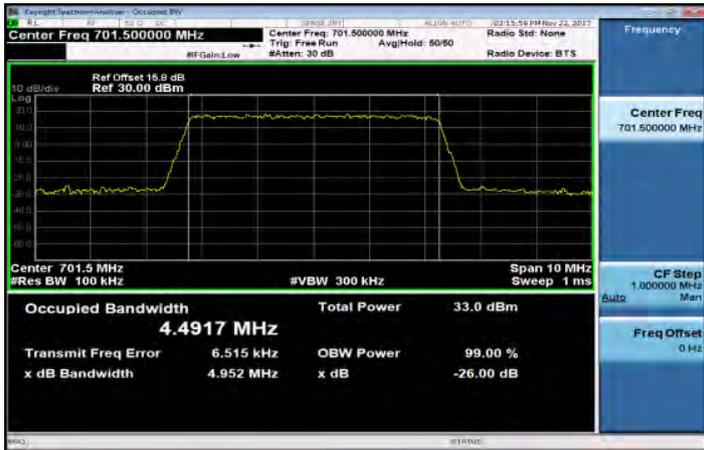


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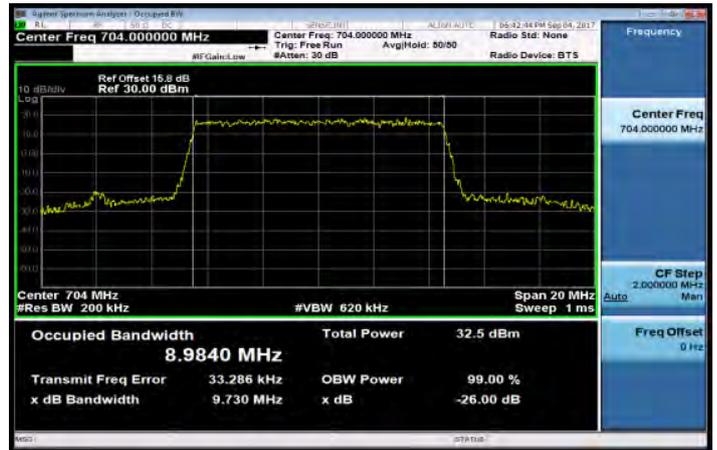
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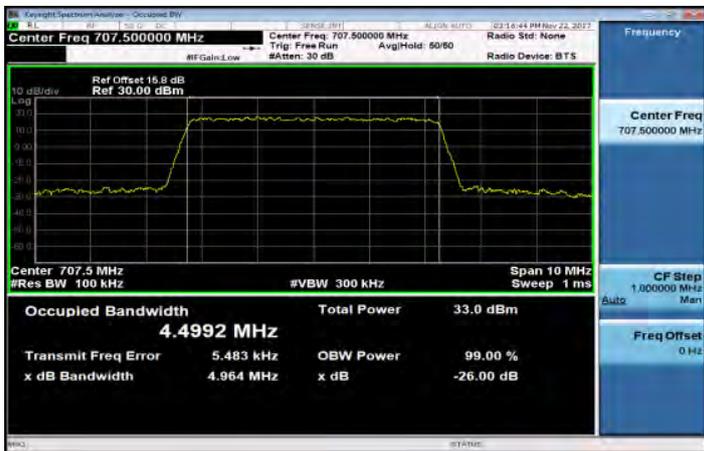
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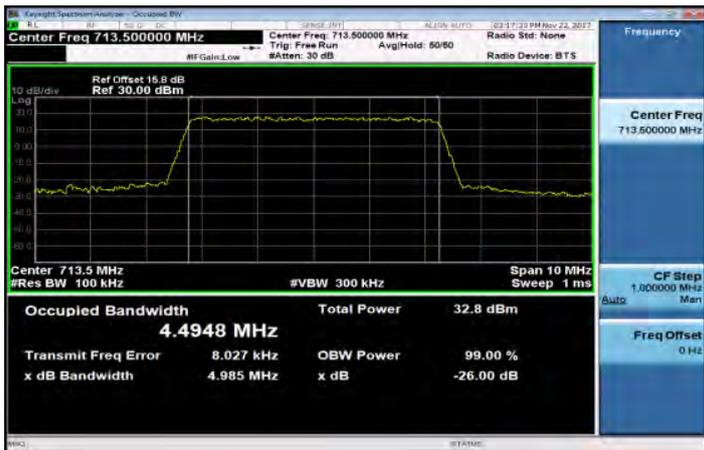
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Band12\_5MHz\_64QAM\_25\_0\_HighCH23155-713.5



Band12\_10MHz\_QPSK\_50\_0\_HighCH23130-711



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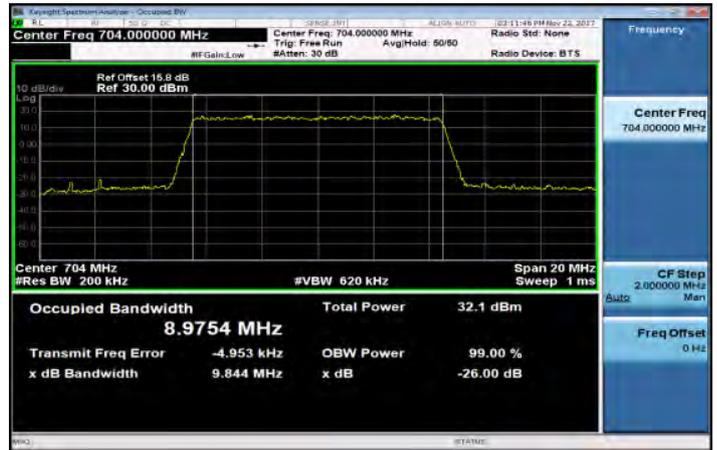
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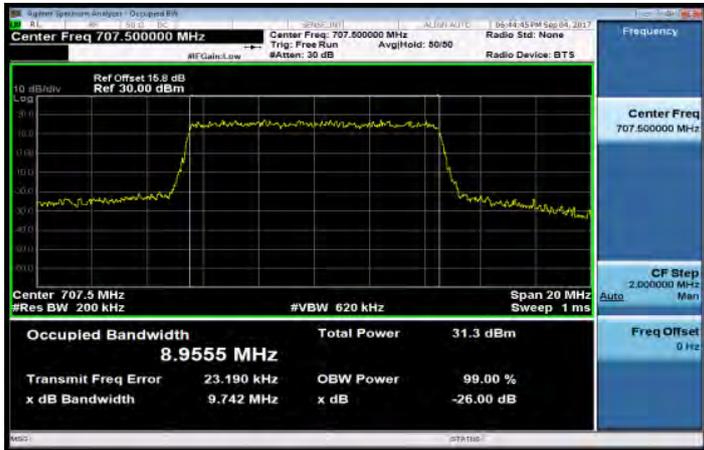
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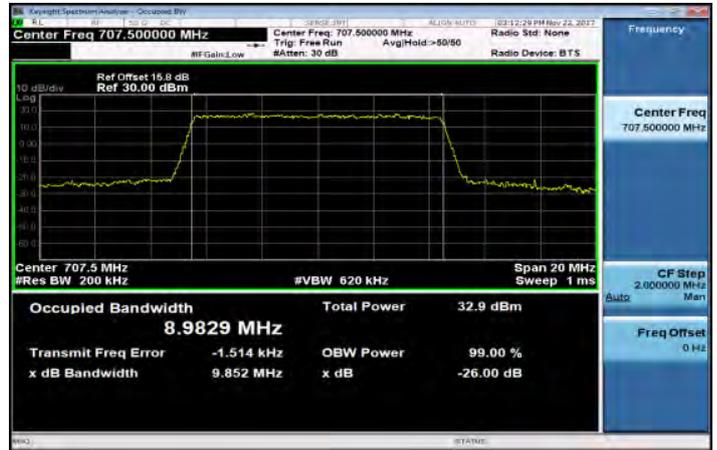
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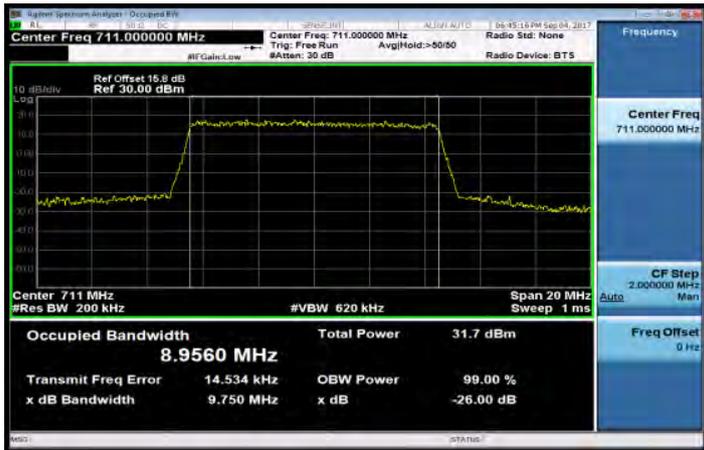
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Band12\_10MHz\_64QAM\_50\_0\_MidCH23095-707.5



Band12\_10MHz\_16QAM\_50\_0\_HighCH23130-711



Band12\_10MHz\_64QAM\_50\_0\_HighCH23130-711



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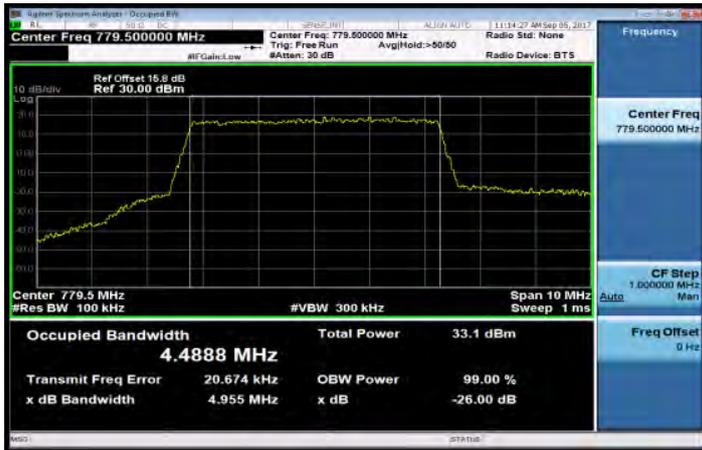
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Band13\_5MHz\_QPSK\_25\_0\_LowCH23205-779.5



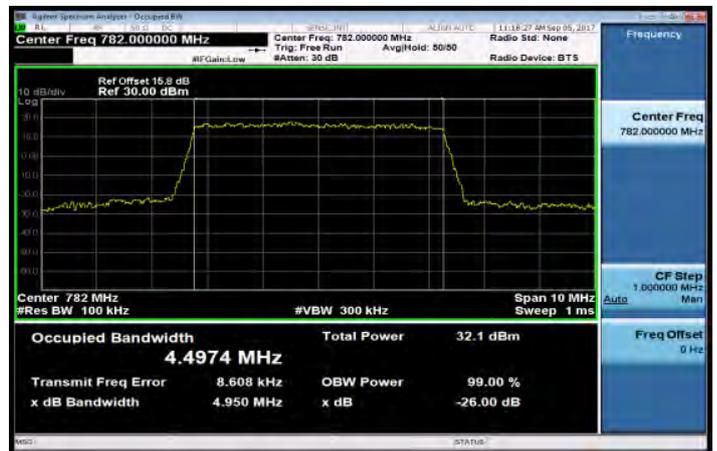
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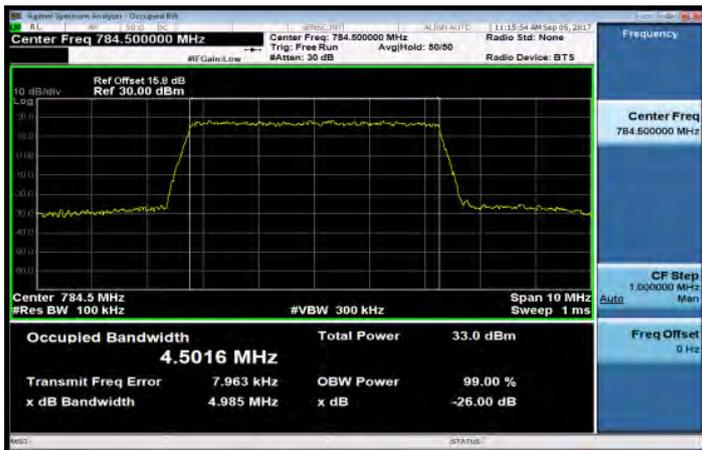
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Band13\_5MHz\_16QAM\_25\_0\_MidCH23230-782



Band13\_5MHz\_QPSK\_25\_0\_HighCH23255-784.5



Band13\_5MHz\_16QAM\_25\_0\_HighCH23255-784.5

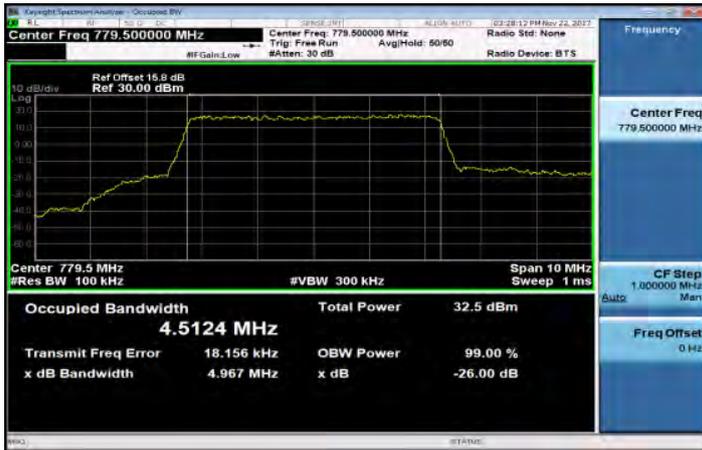


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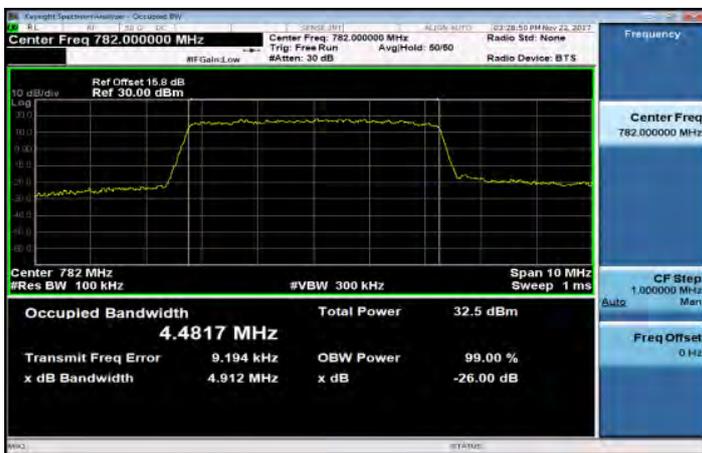
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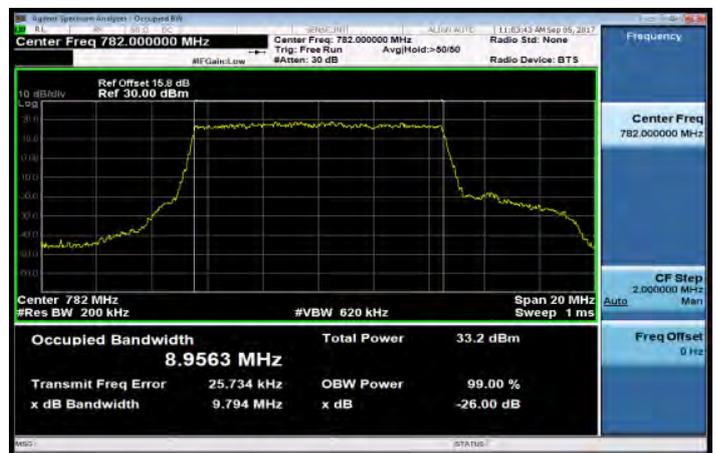
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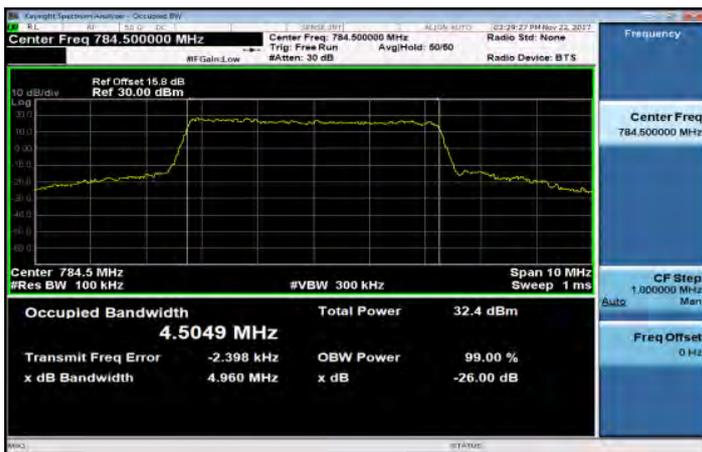
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Band13\_10MHz\_OPSK\_50\_0\_HighCH23230-782



Band13\_5MHz\_64QAM\_25\_0\_HighCH23255-784.5



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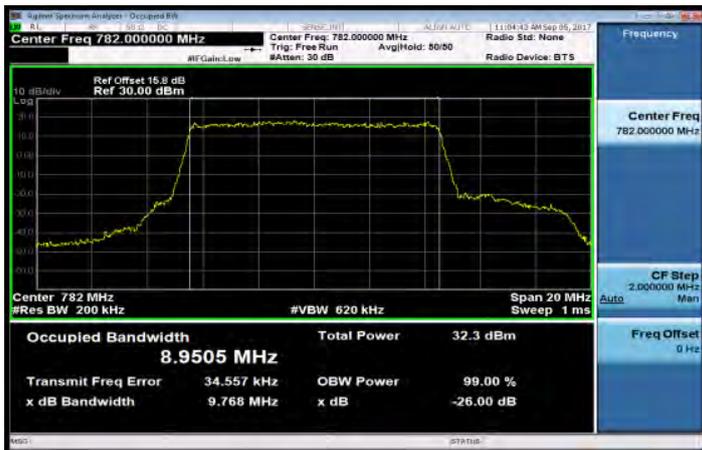
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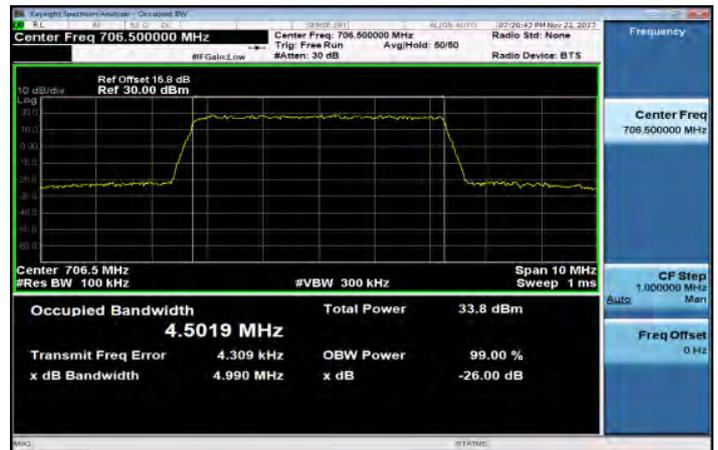
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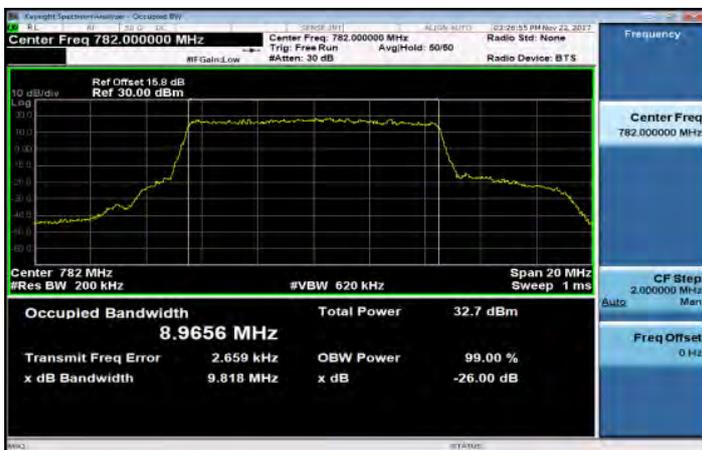
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Band17\_5MHz\_QPSK\_25\_0\_LowCH23755-706.5



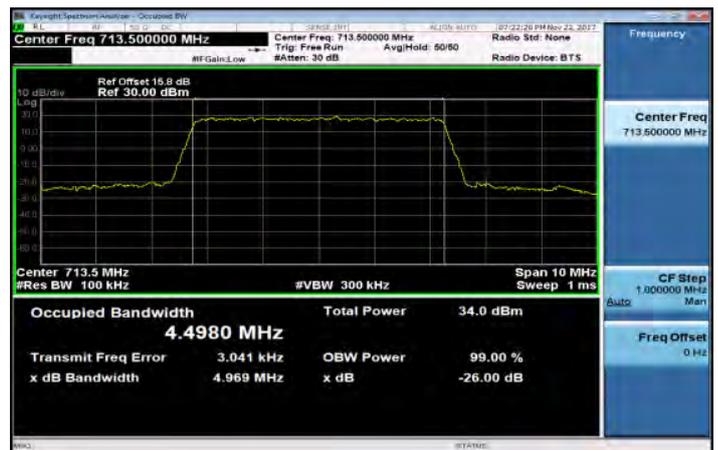
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Band17\_5MHz\_QPSK\_25\_0\_MidCH23790-710



Band17\_5MHz\_QPSK\_25\_0\_HighCH23825-713.5



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