

**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*

**Brand Name:** Sony  
**FCC ID:** PY7-47130J  
**Report No.:** ER/2016/C0032  
**Issue Date:** Jan. 09, 2016  
**FCC Rule Part:** 2 , 22H & 24E & 27B, C & L & 90S  
Sony Mobile Communications Inc.  
**Prepared for:** 4-12-3, Higashi-Shinagawa, Shinagawa-ku,  
Tokyo, 140-0002 Japan  
SGS Taiwan Ltd.  
Electronics & Communication Laboratory  
**Prepared by:** No.134, Wu Kung Road, New Taipei Industrial  
Park, Wuku District, New Taipei City, Taiwan  
24803

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## VERIFICATION OF COMPLIANCE

**Applicant:** Sony Mobile Communications Inc.  
4-12-3, Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002  
Japan

**Brand Name:** Sony

**FCC ID:** PY7-47130J

**File Number:** ER/2016/C0032

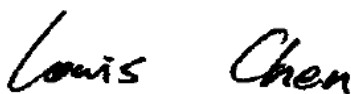
**Date of test:** Dec. 15, 2016 ~ Dec. 29, 2016

**Date of EUT Received:** Dec. 15, 2016

**We hereby certify that:**

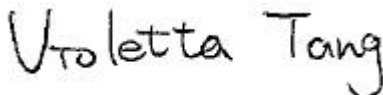
The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-D-2010 and the energy emitted by the sample EUT 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.

**Test By:****Date:**

Jan. 09, 2016

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**Louis Chen / Engineer****Prepared By:****Date:**

Jan. 09, 2016

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**Violetta Tang / Clerk****Approved By:****Date:**

Jan. 09, 2016

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**Jim Chang / Asst. Manager**

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## Revision History

Report Number	Revision	Description	Issue Date
ER/2016/C0032	Rev.00	Initial creation of document	Jan. 09, 2016

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## Contents

1. GENERAL PRODUCT INFORMATION .....	5
2. SYSTEM TEST CONFIGURATION .....	17
3. SUMMARY OF TEST RESULTS .....	25
4. DESCRIPTION OF TEST MODES .....	26
5. MEASUREMENT UNCERTAINTY .....	37
6. RF CONDUCTED OUTPUT POWER MEASUREMENT .....	38
7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT .....	53
8. OCCUPIED BANDWIDTH MEASUREMENT .....	101
9. OUT OF BAND EMISSION AT ANTENNA TERMINALS .....	158
10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT .....	264
11. FREQUENCY STABILITY MEASUREMENT .....	352
12. PEAK TO AVERAGE RATIO .....	368

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## 1. GENERAL PRODUCT INFORMATION

### 1.1. Product Description

General:

Brand Name:	Sony	
Hardware Version:	A	
Software Version:	0.20	
Data Cable (USB):	Model No.: UCB20, Supplier: Sony, Length: 100cm	
BT Headset:	Model No.: MW600, Supplier: BALDA	
HDMI Cable:	Model No.: DLC-HEU10A, Supplier: Foster Sony	
Power Supply:	11.1Vdc	
	Battery:	Model No.: N/A, Supplier: N/A
	Adapter :	Model No.: UCH30C, Supplier: Sony

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GSM / WCDMA / LTE:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	GSM/GPRS 850	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850	824.2 MHz– 848.8 MHz	27dBm
	GSM/GPRS 1900	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900	1850.2MHz – 1909.8MHz	26dBm
	WCDMA / HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
	WCDMA / HSPA+ Band IV	1712.4MHz – 1752.6MHz	24dBm
	WCDMA / HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
	LTE-Band 2 (1.4MHz)	1850.7MHz– 1909.3MHz	23dBm
	LTE-Band 2 (3MHz)	1851.5MHz – 1908.5MHz	23dBm
	LTE-Band 2 (5MHz)	1852.5MHz – 1907.5MHz	23dBm
	LTE-Band 2 (10MHz)	1855.0MHz – 1905.0MHz	23dBm
	LTE-Band 2 (15MHz)	1857.5MHz – 1902.5MHz	23dBm
	LTE-Band 2 (20MHz)	1860.0MHz – 1900.0MHz	23dBm
	LTE-Band 4 (1.4MHz)	1710.7MHz– 1754.3MHz	23dBm
	LTE-Band 4 (3MHz)	1711.5MHz – 1753.5MHz	23dBm
	LTE-Band 4 (5MHz)	1712.5MHz – 1752.5MHz	23dBm
	LTE-Band 4 (10MHz)	1715MHz – 1750MHz	23dBm
	LTE-Band 4 (15MHz)	1717.5MHz – 1747.5MHz	23dBm
	LTE-Band 4 (20MHz)	1720MHz – 1745MHz	23dBm
	LTE-Band 5 (1.4MHz)	824.7MHz – 848.3MHz	23dBm
	LTE-Band 5 (3MHz)	825.5MHz – 847.5MHz	23dBm
	LTE-Band 5 (5MHz)	826.5MHz – 846.5MHz	23dBm
	LTE-Band 5 (10MHz)	829.0MHz – 844.0MHz	23dBm
	LTE-Band 7 (5MHz)	2502.5MHz – 2567.5MHz	23dBm
	LTE-Band 7 (10MHz)	2505.0MHz – 2565.0MHz	23dBm
	LTE-Band 7 (15MHz)	2507.5MHz – 2562.5MHz	23dBm
	LTE-Band 7 (20MHz)	2510.0MHz – 2560MHz	23dBm

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Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	LTE-Band 12 (1.4MHz)	699.7MHz– 715.3MHz	23dBm
	LTE-Band 12 (3MHz)	700.5MHz – 714.5MHz	23dBm
	LTE-Band 12 (5MHz)	701.5MHz – 713.5MHz	23dBm
	LTE-Band 12 (10MHz)	704.0MHz – 711.0MHz	23dBm
	LTE-Band 17 (5MHz)	706.5MHz – 713.5MHz	23dBm
	LTE-Band 17 (10MHz)	709.0MHz – 711.0MHz	23dBm
	LTE-Band 26 (1.4MHz) (for Part 90S)	814.7 MHz– 823.3 MHz	23dBm
	LTE-Band 26 (3MHz) (for Part 90S)	815.5 MHz– 822.5 MHz	23dBm
	LTE-Band 26 (5MHz) (for Part 90S)	816.5 MHz– 822.5 MHz	23dBm
	LTE-Band 26 (10MHz) (for Part 90S)	819.0 MHz– 819.0 MHz	23dBm
	LTE-Band 26 (1.4MHz)	824.7 MHz– 848.3 MHz	23dBm
	LTE-Band 26 (3MHz)	825.5 MHz– 847.5 MHz	23dBm
	LTE-Band 26 (5MHz)	826.5 MHz– 846.5 MHz	23dBm
	LTE-Band 26 (10MHz)	829.0 MHz– 844.0 MHz	23dBm
	LTE-Band 26 (15MHz)	831.5 MHz– 841.5 MHz	23dBm
	LTE-Band 41 (5MHz)	2498.5MHz – 2687.5MHz	23dBm
	LTE-Band 41 (10MHz)	2501.0MHz – 2685.0MHz	23dBm
	LTE-Band 41 (15MHz)	2503.5MHz – 2682.5MHz	23dBm
	LTE-Band 41 (20MHz)	2506.0MHz – 2680.0MHz	23dBm
IMEI:	0044024567035		

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## Type of Emission:

Frequency Band	Type of Emission:
GSM 850	246KGXW
GPRS 850	244KGXW
EDGE 850	249KG7W
GSM 1900	241KGXW
GPRS 1900	250KGXW
EDGE 1900	249KG7W
WCDMA Band II	4M12F9W
HSDPA Band II	4M11F9W
HSUPA Band II	4M12F9W
WCDMA Band IV	4M12F9W
HSDPA Band IV	4M11F9W
HSUPA Band IV	4M11F9W
WCDMA Band V	4M13F9W
HSDPA Band V	4M13F9W
HSUPA Band V	4M12F9W

LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 2	1.4MHz	QPSK	1M10G7D
LTE Band 2	1.4MHz	16QAM	1M10D7W
LTE Band 2	3MHz	QPSK	2M70G7D
LTE Band 2	3MHz	16QAM	2M70D7W
LTE Band 2	5MHz	QPSK	4M50G7D
LTE Band 2	5MHz	16QAM	4M51D7W
LTE Band 2	10MHz	QPSK	9M00G7D
LTE Band 2	10MHz	16QAM	8M95D7W
LTE Band 2	15MHz	QPSK	13M5G7D
LTE Band 2	15MHz	16QAM	13M4D7W
LTE Band 2	20MHz	QPSK	17M9G7D
LTE Band 2	20MHz	16QAM	17M9D7W
LTE Band 4	1.4MHz	QPSK	1M10G7D
LTE Band 4	1.4MHz	16QAM	1M10D7W
LTE Band 4	3MHz	QPSK	2M70G7D
LTE Band 4	3MHz	16QAM	2M70D7W
LTE Band 4	5MHz	QPSK	4M50G7D
LTE Band 4	5MHz	16QAM	4M50D7W
LTE Band 4	10MHz	QPSK	8M99G7D
LTE Band 4	10MHz	16QAM	8M95D7W
LTE Band 4	15MHz	QPSK	13M4G7D
LTE Band 4	15MHz	16QAM	13M4D7W
LTE Band 4	20MHz	QPSK	17M9G7D
LTE Band 4	20MHz	16QAM	17M9D7W

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LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 5	1.4MHz	QPSK	1M10G7D
LTE Band 5	1.4MHz	16QAM	1M10D7W
LTE Band 5	3MHz	QPSK	2M70G7D
LTE Band 5	3MHz	16QAM	2M70D7W
LTE Band 5	5MHz	QPSK	4M50G7D
LTE Band 5	5MHz	16QAM	4M50D7W
LTE Band 5	10MHz	QPSK	9M00G7D
LTE Band 5	10MHz	16QAM	8M95D7W
LTE Band 7	5MHz	QPSK	4M50G7D
LTE Band 7	5MHz	16QAM	4M49D7W
LTE Band 7	10MHz	QPSK	8M99G7D
LTE Band 7	10MHz	16QAM	8M95D7W
LTE Band 7	15MHz	QPSK	13M5G7D
LTE Band 7	15MHz	16QAM	13M4D7W
LTE Band 7	20MHz	QPSK	17M9G7D
LTE Band 7	20MHz	16QAM	17M9D7W
LTE Band 12	1.4MHz	QPSK	1M10G7D
LTE Band 12	1.4MHz	16QAM	1M10D7W
LTE Band 12	3MHz	QPSK	2M70G7D
LTE Band 12	3MHz	16QAM	2M70D7W
LTE Band 12	5MHz	QPSK	4M49G7D
LTE Band 12	5MHz	16QAM	4M50D7W
LTE Band 12	10MHz	QPSK	8M98G7D
LTE Band 12	10MHz	16QAM	8M97D7W
LTE Band 17	5MHz	QPSK	4M50G7D
LTE Band 17	5MHz	16QAM	4M50D7W
LTE Band 17	10MHz	QPSK	9M00G7D
LTE Band 17	10MHz	16QAM	8M96D7W

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LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 26	1.4MHz	QPSK	1M10G7D
LTE Band 26	1.4MHz	16QAM	1M10D7W
LTE Band 26	3MHz	QPSK	2M70G7D
LTE Band 26	3MHz	16QAM	2M70D7W
LTE Band 26	5MHz	QPSK	4M50G7D
LTE Band 26	5MHz	16QAM	4M50D7W
LTE Band 26	10MHz	QPSK	8M98G7D
LTE Band 26	10MHz	16QAM	8M96D7W
LTE Band 26	15MHz	QPSK	13M5G7W
LTE Band 26	15MHz	16QAM	13M5D7W
LTE Band 41	5MHz	QPSK	4M51G7D
LTE Band 41	5MHz	16QAM	4M51D7W
LTE Band 41	10MHz	QPSK	8M99G7D
LTE Band 41	10MHz	16QAM	8M97D7W
LTE Band 41	15MHz	QPSK	13M5G7D
LTE Band 41	15MHz	16QAM	13M5D7W
LTE Band 41	20MHz	QPSK	17M9G7D
LTE Band 41	20MHz	16QAM	17M9D7W

#### LTE Band 26 for Part 90S

LTE Band 26	1.4MHz	QPSK	1M10G7D
LTE Band 26	1.4MHz	16QAM	1M10D7W
LTE Band 26	3MHz	QPSK	2M70G7D
LTE Band 26	3MHz	16QAM	2M70D7W
LTE Band 26	5MHz	QPSK	4M50G7D
LTE Band 26	5MHz	16QAM	4M51D7W
LTE Band 26	10MHz	QPSK	8M96G7D
LTE Band 26	10MHz	16QAM	8M95D7W

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## Max ERP/EIRP Power Measurement Result:

	<b>dBm</b>		<b>W</b>
GSM 850	<b>24.79</b>	ERP	0.301
GPRS 850	<b>24.86</b>	ERP	0.306
EDGE 850	<b>22.40</b>	ERP	0.174
GSM 1900	<b>27.22</b>	EIRP	0.527
GPRS 1900	<b>27.05</b>	EIRP	0.507
EDGE 1900	<b>26.40</b>	EIRP	0.437
WCDMA Band II	<b>27.04</b>	EIRP	0.506
HSDPA Band II	<b>27.51</b>	EIRP	0.564
HSUPA Band II	<b>25.25</b>	EIRP	0.335
WCDMA Band IV	<b>21.89</b>	EIRP	0.155
HSDPA Band IV	<b>22.04</b>	EIRP	0.160
HSUPA Band IV	<b>21.07</b>	EIRP	0.128
WCDMA Band V	<b>21.55</b>	ERP	0.143
HSDPA Band V	<b>21.22</b>	ERP	0.132
HSUPA Band V	<b>18.85</b>	ERP	0.077
LTE-Band 2 (Bandwidth 1.4MHz) QPSK	<b>25.16</b>	EIRP	0.328
LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	<b>25.39</b>	EIRP	0.346
LTE-Band 2 (Bandwidth 3MHz) QPSK	<b>25.05</b>	EIRP	0.320
LTE-Band 2 (Bandwidth 3MHz) 16QAM	<b>24.81</b>	EIRP	0.303
LTE-Band 2 (Bandwidth 5MHz) QPSK	<b>25.06</b>	EIRP	0.321
LTE-Band 2 (Bandwidth 5MHz) 16QAM	<b>24.79</b>	EIRP	0.301
LTE-Band 2 (Bandwidth 10MHz) QPSK	<b>25.57</b>	EIRP	0.361
LTE-Band 2 (Bandwidth 10MHz) 16QAM	<b>24.64</b>	EIRP	0.291
LTE-Band 2 (Bandwidth 15MHz) QPSK	<b>24.92</b>	EIRP	0.310
LTE-Band 2 (Bandwidth 15MHz) 16QAM	<b>24.54</b>	EIRP	0.284
LTE-Band 2 (Bandwidth 20MHz) QPSK	<b>24.73</b>	EIRP	0.297
LTE-Band 2 (Bandwidth 20MHz) 16QAM	<b>24.41</b>	EIRP	0.276

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	<b>dBm</b>		<b>W</b>
LTE-Band 4 (Bandwidth 1.4MHz) QPSK	<b>19.02</b>	EIRP	0.080
LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	<b>18.82</b>	EIRP	0.076
LTE-Band 4 (Bandwidth 3MHz) QPSK	<b>19.11</b>	EIRP	0.081
LTE-Band 4 (Bandwidth 3MHz) 16QAM	<b>18.77</b>	EIRP	0.075
LTE-Band 4 (Bandwidth 5MHz) QPSK	<b>18.99</b>	EIRP	0.079
LTE-Band 4 (Bandwidth 5MHz) 16QAM	<b>19.02</b>	EIRP	0.080
LTE-Band 4 (Bandwidth 10MHz) QPSK	<b>18.88</b>	EIRP	0.077
LTE-Band 4 (Bandwidth 10MHz) 16QAM	<b>18.80</b>	EIRP	0.076
LTE-Band 4 (Bandwidth 15MHz) QPSK	<b>18.90</b>	EIRP	0.078
LTE-Band 4 (Bandwidth 15MHz) 16QAM	<b>18.51</b>	EIRP	0.071
LTE-Band 4 (Bandwidth 20MHz) QPSK	<b>18.95</b>	EIRP	0.079
LTE-Band 4 (Bandwidth 20MHz) 16QAM	<b>18.70</b>	EIRP	0.074
LTE-Band 5 (Bandwidth 1.4MHz) QPSK	<b>25.59</b>	ERP	0.362
LTE-Band 5 (Bandwidth 1.4MHz) 16QAM	<b>25.30</b>	ERP	0.339
LTE-Band 5 (Bandwidth 3MHz) QPSK	<b>26.17</b>	ERP	0.414
LTE-Band 5 (Bandwidth 3MHz) 16QAM	<b>25.34</b>	ERP	0.342
LTE-Band 5 (Bandwidth 5MHz) QPSK	<b>25.58</b>	ERP	0.361
LTE-Band 5 (Bandwidth 5MHz) 16QAM	<b>25.15</b>	ERP	0.327
LTE-Band 5 (Bandwidth 10MHz) QPSK	<b>25.72</b>	ERP	0.373
LTE-Band 5 (Bandwidth 10MHz) 16QAM	<b>25.05</b>	ERP	0.320
LTE-Band 7 (Bandwidth 5MHz) QPSK	<b>21.19</b>	EIRP	0.132
LTE-Band 7 (Bandwidth 5MHz) 16QAM	<b>20.64</b>	EIRP	0.116
LTE-Band 7 (Bandwidth 10MHz) QPSK	<b>21.16</b>	EIRP	0.131
LTE-Band 7 (Bandwidth 10MHz) 16QAM	<b>20.63</b>	EIRP	0.116
LTE-Band 7 (Bandwidth 15MHz) QPSK	<b>21.66</b>	EIRP	0.147
LTE-Band 7 (Bandwidth 15MHz) 16QAM	<b>20.86</b>	EIRP	0.122
LTE-Band 7 (Bandwidth 20MHz) QPSK	<b>21.50</b>	EIRP	0.141
LTE-Band 7 (Bandwidth 20MHz) 16QAM	<b>21.15</b>	EIRP	0.130

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	<b>dBm</b>		<b>W</b>
LTE-Band 12 (Bandwidth 1.4MHz) QPSK	<b>24.87</b>	ERP	0.307
LTE-Band 12 (Bandwidth 1.4MHz) 16QAM	<b>24.22</b>	ERP	0.264
LTE-Band 12 (Bandwidth 3MHz) QPSK	<b>25.17</b>	ERP	0.329
LTE-Band 12 (Bandwidth 3MHz) 16QAM	<b>24.59</b>	ERP	0.288
LTE-Band 12 (Bandwidth 5MHz) QPSK	<b>24.75</b>	ERP	0.299
LTE-Band 12 (Bandwidth 5MHz) 16QAM	<b>24.34</b>	ERP	0.272
LTE-Band 12 (Bandwidth 10MHz) QPSK	<b>24.80</b>	ERP	0.302
LTE-Band 12 (Bandwidth 10MHz) 16QAM	<b>24.65</b>	ERP	0.292
LTE-Band 17 (Bandwidth 5MHz) QPSK	<b>23.76</b>	ERP	0.238
LTE-Band 17 (Bandwidth 5MHz) 16QAM	<b>23.53</b>	ERP	0.225
LTE-Band 17 (Bandwidth 10MHz) QPSK	<b>24.40</b>	ERP	0.275
LTE-Band 17 (Bandwidth 10MHz) 16QAM	<b>23.38</b>	ERP	0.218
LTE-Band 26 (Bandwidth 1.4MHz) QPSK	<b>17.55</b>	ERP	0.057
LTE-Band 26 (Bandwidth 1.4MHz) 16QAM	<b>17.58</b>	ERP	0.057
LTE-Band 26 (Bandwidth 3MHz) QPSK	<b>17.61</b>	ERP	0.058
LTE-Band 26 (Bandwidth 3MHz) 16QAM	<b>17.43</b>	ERP	0.055
LTE-Band 26 (Bandwidth 5MHz) QPSK	<b>17.37</b>	ERP	0.055
LTE-Band 26 (Bandwidth 5MHz) 16QAM	<b>17.12</b>	ERP	0.052
LTE-Band 26 (Bandwidth 10MHz) QPSK	<b>17.41</b>	ERP	0.055
LTE-Band 26 (Bandwidth 10MHz) 16QAM	<b>17.04</b>	ERP	0.051
LTE-Band 26 (Bandwidth 15MHz) QPSK	<b>17.40</b>	ERP	0.055
LTE-Band 26 (Bandwidth 15MHz) 16QAM	<b>16.99</b>	ERP	0.050

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	<b>dBm</b>		<b>W</b>
LTE-Band 41 (Bandwidth 5MHz) QPSK	<b>22.36</b>	EIRP	0.172
LTE-Band 41 (Bandwidth 5MHz) 16QAM	<b>22.04</b>	EIRP	0.160
LTE-Band 41 (Bandwidth 10MHz) QPSK	<b>22.47</b>	EIRP	0.177
LTE-Band 41 (Bandwidth 10MHz) 16QAM	<b>22.15</b>	EIRP	0.164
LTE-Band 41 (Bandwidth 15MHz) QPSK	<b>21.71</b>	EIRP	0.148
LTE-Band 41 (Bandwidth 15MHz) 16QAM	<b>21.31</b>	EIRP	0.135
LTE-Band 41 (Bandwidth 20MHz) QPSK	<b>22.71</b>	EIRP	0.187
LTE-Band 41 (Bandwidth 20MHz) 16QAM	<b>22.26</b>	EIRP	0.168

#### LTE Band 26 for Part 90S

	<b>dBm</b>		<b>W</b>
LTE-Band 26 (Bandwidth 1.4MHz) QPSK	<b>18.57</b>	ERP	0.072
LTE-Band 26 (Bandwidth 1.4MHz) 16QAM	<b>18.89</b>	ERP	0.077
LTE-Band 26 (Bandwidth 3MHz) QPSK	<b>18.92</b>	ERP	0.078
LTE-Band 26 (Bandwidth 3MHz) 16QAM	<b>18.70</b>	ERP	0.074
LTE-Band 26 (Bandwidth 5MHz) QPSK	<b>18.56</b>	ERP	0.072
LTE-Band 26 (Bandwidth 5MHz) 16QAM	<b>18.33</b>	ERP	0.068
LTE-Band 26 (Bandwidth 10MHz) QPSK	<b>18.49</b>	ERP	0.071
LTE-Band 26 (Bandwidth 10MHz) 16QAM	<b>18.24</b>	ERP	0.067

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## 1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) supports below functions.

Product Feature	
GSM Operating Band(s)	GSM 850/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 12 / Class 12
WCDMA Operating Band(s)	FDD Band II / IV / V
WCDMA Rel. Version	Rel.9
LTE Operating Band(s)	FCC Band 2 / 4 / 5 / 7 / 12 / 17 / 26 / 41
LTE Rel. Version	Rel.10
Bluetooth Version	V4.2 dual mode
Wi-Fi- Specification	802.11a/b/g/n/ac
NFC Specification	NFC

**Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.**

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### 1.3. Test Methodology of Applied Standards

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

ANSI / TIA / EIA 603-D-2010

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.

### 1.4. 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: 509634

### 1.5. Special Accessories

No special accessories were used during testing.

### 1.6. 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 TIA/EIA 603C, 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 TIA/EIA 603C, The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

### 2.4. Measurement Results Explanation Example

#### For all conducted test items:

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

#### Note:

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

Following shows an offset computation example with cable loss 0.6dB for low band and 0.4dB for high band with 10 dB attenuator and 3.2 splitter.

Low Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =3.6+10=13.6(dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =3.8+10=13.8(dB)

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## 2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	11.1Vdc	1140
GSM 1900	11.1Vdc	1141
GPRS 850	11.1Vdc	1149
GPRS 1900	11.1Vdc	1153
EDGE 850	11.1Vdc	1129
EDGE 1900	11.1Vdc	1141
WCDMA B2	11.1Vdc	1140
WCDMA B4	11.1Vdc	1129
WCDMA B5	11.1Vdc	1142
HSUPA B2	11.1Vdc	1132
HSUPA B4	11.1Vdc	1150
HSUPA B5	11.1Vdc	1133
HSDPA B2	11.1Vdc	1153
HSDPA B4	11.1Vdc	1154
HSDPA B5	11.1Vdc	1137

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 2_1.4M QPSK	11.1Vdc	1114
LTE Band 2_1.4M 16QAM	11.1Vdc	1105
LTE Band 2_3M QPSK	11.1Vdc	1125
LTE Band 2_3M 16QAM	11.1Vdc	1137
LTE Band 2_5M QPSK	11.1Vdc	1099
LTE Band 2_5M 16QAM	11.1Vdc	1105
LTE Band 2_10M QPSK	11.1Vdc	1144
LTE Band 2_10M 16QAM	11.1Vdc	1129
LTE Band 2_15M QPSK	11.1Vdc	1133
LTE Band 2_15M 16QAM	11.1Vdc	1144
LTE Band 2_20M QPSK	11.1Vdc	1129
LTE Band 2_20M 16QAM	11.1Vdc	1128

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 4_1.4M QPSK	11.1Vdc	1160
LTE Band 4_1.4M 16QAM	11.1Vdc	1167
LTE Band 4_3M QPSK	11.1Vdc	1132
LTE Band 4_3M 16QAM	11.1Vdc	1184
LTE Band 4_5M QPSK	11.1Vdc	1154
LTE Band 4_5M 16QAM	11.1Vdc	1154
LTE Band 4_10M QPSK	11.1Vdc	1140
LTE Band 4_10M 16QAM	11.1Vdc	1175
LTE Band 4_15M QPSK	11.1Vdc	1189
LTE Band 4_15M 16QAM	11.1Vdc	1157
LTE Band 4_20M QPSK	11.1Vdc	1158
LTE Band 4_20M 16QAM	11.1Vdc	1155

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 5_1.4M QPSK	11.1Vdc	1070
LTE Band 5_1.4M 16QAM	11.1Vdc	1059
LTE Band 5_3M QPSK	11.1Vdc	1040
LTE Band 5_3M 16QAM	11.1Vdc	1094
LTE Band 5_5M QPSK	11.1Vdc	1064
LTE Band 5_5M 16QAM	11.1Vdc	1086
LTE Band 5_10M QPSK	11.1Vdc	1084
LTE Band 5_10M 16QAM	11.1Vdc	1096

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 7_5M QPSK	11.1Vdc	1060
LTE Band 7_5M 16QAM	11.1Vdc	1064
LTE Band 7_10M QPSK	11.1Vdc	1068
LTE Band 7_10M 16QAM	11.1Vdc	1073
LTE Band 7_15M QPSK	11.1Vdc	1056
LTE Band 7_15M 16QAM	11.1Vdc	1063
LTE Band 7_20M QPSK	11.1Vdc	1080
LTE Band 7_20M 16QAM	11.1Vdc	1055

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 12_1.4M QPSK	11.1Vdc	1130
LTE Band 12_1.4M 16QAM	11.1Vdc	1130
LTE Band 12_3M QPSK	11.1Vdc	1102
LTE Band 12_3M 16QAM	11.1Vdc	1130
LTE Band 12_5M QPSK	11.1Vdc	1122
LTE Band 12_5M 16QAM	11.1Vdc	1129
LTE Band 12_10M QPSK	11.1Vdc	1117
LTE Band 12_10M 16QAM	11.1Vdc	1135

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 17_5M QPSK	11.1Vdc	1020
LTE Band 17_5M 16QAM	11.1Vdc	1041
LTE Band 17_10M QPSK	11.1Vdc	1002
LTE Band 17_10M 16QAM	11.1Vdc	1050

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 26_1.4M QPSK	11.1Vdc	1030
LTE Band 26_1.4M 16QAM	11.1Vdc	1053
LTE Band 26_3M QPSK	11.1Vdc	1055
LTE Band 26_3M 16QAM	11.1Vdc	1028
LTE Band 26_5M QPSK	11.1Vdc	1025
LTE Band 26_5M 16QAM	11.1Vdc	1031
LTE Band 26_10M QPSK	11.1Vdc	1027
LTE Band 26_10M 16QAM	11.1Vdc	1043
LTE Band 26_15M QPSK	11.1Vdc	1010
LTE Band 26_15M 16QAM	11.1Vdc	1012

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 41_5M QPSK	11.1Vdc	1110
LTE Band 41_5M 16QAM	11.1Vdc	1095
LTE Band 41_10M QPSK	11.1Vdc	1096
LTE Band 41_10M 16QAM	11.1Vdc	1086
LTE Band 41_15M QPSK	11.1Vdc	1127
LTE Band 41_15M 16QAM	11.1Vdc	1105
LTE Band 41_20M QPSK	11.1Vdc	1132
LTE Band 41_20M 16QAM	11.1Vdc	1135

#### LTE Band 26 for Part 90S

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 26_1.4M QPSK	11.1Vdc	1109
LTE Band 26_1.4M 16QAM	11.1Vdc	1133
LTE Band 26_3M QPSK	11.1Vdc	1085
LTE Band 26_3M 16QAM	11.1Vdc	1083
LTE Band 26_5M QPSK	11.1Vdc	1129
LTE Band 26_5M 16QAM	11.1Vdc	1127
LTE Band 26_10M QPSK	11.1Vdc	1096
LTE Band 26_10M 16QAM	11.1Vdc	1124

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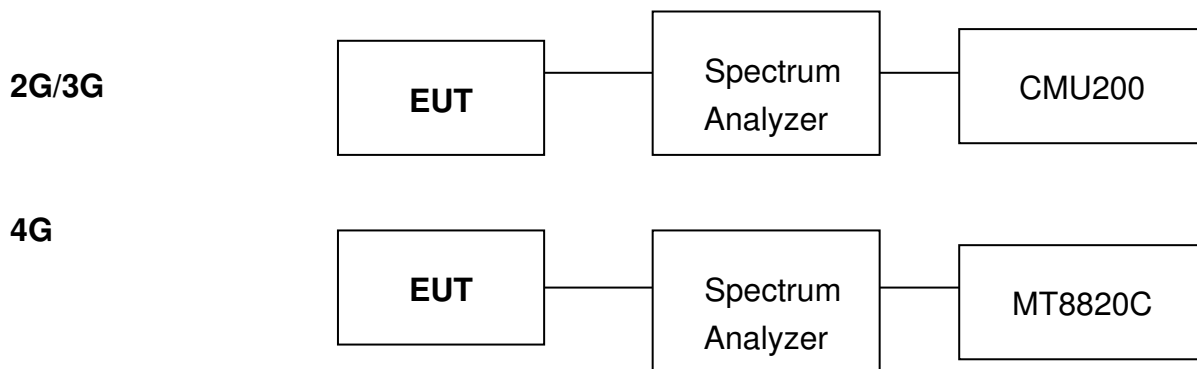
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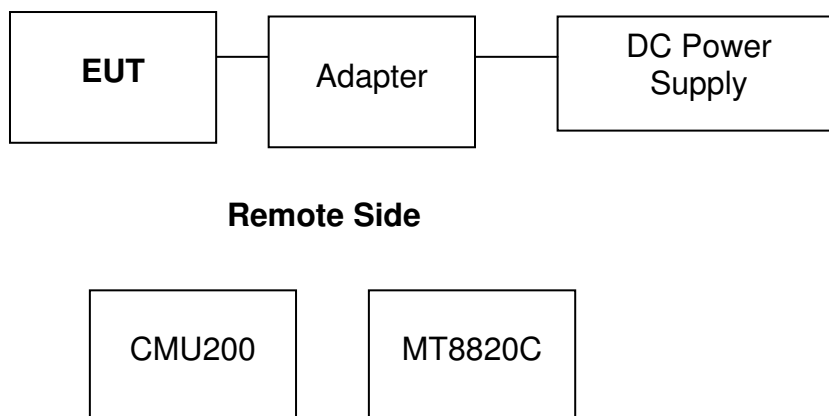
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## 2.6. Configuration of Tested System

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



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



**Table 2-1 Equipment Used in**

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded
2.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded
3.	DC Power Supply	HP	E3640A	KR93300208	N/A	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)(2) §24.232(c) §27.50(c)(9) §27.50(d)(4) §27.50(h)(2) §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(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
GSM/GPRS/EDGE 850	E2-plan	E2-plan
GSM/GPRS/EDGE 1900	E2-plan	E2-plan
WCDMA/HSPA Band II	E2-plan	E2-plan
WCDMA/HSPA Band IV	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 7	E2-plan	E2-plan
LTE Band 12	E2-plan	E2-plan
LTE Band 17	E2-plan	E2-plan
LTE Band 26	E2-plan	E2-plan
LTE Band 41	E2-plan	E2-plan
LTE Band 26 for Part 90S	E2-plan	E2-plan

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## GSM/GPRS/EDGE MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	128 to 251	128, 190, 251	GSM/GPRS/EDGE 850
EIRP	512 to 810	512, 661, 810	GSM/GPRS/EDGE 1900
FREQUENCY STABILITY	128 to 251 512 to 810	190 661	GPRS 850 GPRS 1900
OCCUPIED BANDWIDTH	128 to 251 512 to 810	190 661	GSM/GPRS/EDGE 850 GSM/GPRS/EDGE 1900
PEAK TO AVERAGE RATIO	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GSM/GPRS/EDGE 850 GSM/GPRS/EDGE 1900
BAND EDGE	128 to 251 512 to 810	128, 251 512, 810	GSM/GPRS/EDGE 850 GSM/GPRS/EDGE 1900
CONDCUDED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GSM/GPRS/EDGE 850 GSM/GPRS/EDGE 1900
RADIATED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GPRS 850 GSM 1900

## 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 1312 to 1513	9262, 9400, 9583 1312, 1413, 1513	WCDMA/HSPA Band II WCDMA/HSPA Band IV
FREQUENCY STABILITY	4132 to 4233 1312 to 1513 9262 to 9538	4183 1413 9400	WCDMA Band II WCDMA Band IV WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4233 1312, 1513 9262, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
CONDCUDED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
RADIATED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	HSDPA Band II HSDPA Band IV WCDMA Band V

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## LTE Band 2 MODE

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

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## LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20000 to 20350	20175	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	16QAM	Full RB
BAND EDGE	19957 to 19393	19957, 19393	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
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	19965 to 22385	19965, 20175, 22385	3MHz	QPSK	1 RB, 14 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	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	16QAM	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
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	20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1 RB, 14 RB Offest

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## LTE Band 7 MODE

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

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## LTE Band 12 MODE

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

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## LTE Band 17 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	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	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	16QAM	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
CONDCUDED 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 EMISSION	23780 to 23800	23780, 23790, 23800	10MHz	QPSK	1 RB, 49 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	1 RB/ 0,5 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
FREQUENCY STABILITY	26865 to 26965	26915	15MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE 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
CONDCUDED 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	3MHz	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	1 RB/ 0,24 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	39675 to 41565	39675, 40620, 41565	5MHz	16QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	16QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	16QAM	Full RB
BAND EDGE	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	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
RADIATED EMISSION	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

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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	1 RB/ 0,5 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26740	26740	10MHz	QPSK, 16QAM	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	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	16QAM	Full RB
	26740	26740	10MHz	16QAM	Full RB
BAND EDGE	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,14 RB 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	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 14 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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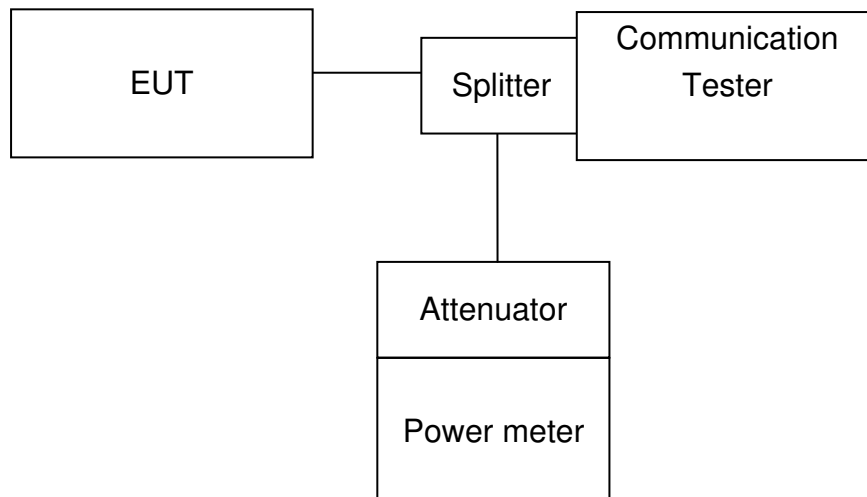
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## 6. RF CONDUCTED OUTPUT POWER MEASUREMENT

### 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, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

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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.
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/24/2016	09/23/2017
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017

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## 6.5. Measurement Result

### RF Conducted Output Power GSM/GPRS/EDGE (GMSK; 8-PSK) Result:

EUT Mode	Frequency (MHz)	CH	Averager Burst Power (dBm)
GSM 850	824.2	128	32.65
	836.6	190	32.62
	848.8	251	<b>32.82</b>
GSM 1900	1850.2	512	<b>29.6</b>
	1880.0	661	29.57
	1909.8	810	29.36

EUT Mode	Frequency (MHz)	CH	Average Burst Power (1DN 1UP) Class 8 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 3UP) Class 10 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	<b>32.58</b>	31.65	29.27	28.23
	836.6	190	32.53	31.62	29.31	28.26
	848.8	251	32.84	31.84	29.38	28.32
GPRS 1900	1850.2	512	<b>29.62</b>	27.98	26.04	24.78
	1880.0	661	29.59	27.84	25.94	24.72
	1909.8	810	29.38	27.62	25.78	24.53
EDGE 850	824.2	128	27.09	25.43	23.3	22.1
	836.6	190	<b>27.19</b>	25.64	23.26	22.15
	848.8	251	27.11	25.81	23.51	22.49
EDGE 1900	1850.2	512	<b>25.42</b>	24.27	22.2	21.14
	1880.0	661	25.37	24.14	22.02	21.08
	1909.8	810	25.32	23.96	21.86	21.05

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## 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		WCDMA Band II	HSDPA Band II	HSUPA Band II
Frequency (MHz)	CH	Avg. Power (dBm)	Avg. Power (dBm)	Avg. Power (dBm)
1852.4	9262	24.21	23.64	22.65
1880.0	9400	24.37	23.27	22.83
1907.6	9538	<b>24.44</b>	23.45	22.72

EUT Mode		WCDMA Band IV	HSDPA Band IV	HSUPA Band IV
Frequency (MHz)	CH	Avg. Power (dBm)	Avg. Power (dBm)	Avg. Power (dBm)
1712.4	1312	<b>24.37</b>	23.52	22.61
1732.6	1412	24.26	23.17	22.7
1752.6	1513	24.19	23.4	22.53

EUT Mode		WCDMA Band V	HSDPA Band V	HSUPA Band V
Frequency (MHz)	CH	Avg. Power (dBm)	Avg. Power (dBm)	Avg. Power (dBm)
826.4	4132	<b>24.46</b>	23.51	23.02
836.6	4183	24.25	23.93	23.12
846.6	4233	24.19	23.79	23.05

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## LTE Result:

### LTE Band 2

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 18607	Channel (Mid) 18900	Channel (High) 19193	Channel (Low) 18607	Channel (Mid) 18900	Channel (High) 19193
1.4	1	0	23.2	22.85	23.09	21.99	21.46	21.88
	1	5	<b>23.37</b>	23.08	23.12	<b>22.04</b>	21.68	21.95
	3	2	23.31	23.02	23.13	21.83	21.46	21.47
	6	0	22.32	21.94	22.27	21.07	20.65	20.96

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 18615	Channel (Mid) 18900	Channel (High) 19185	Channel (Low) 18615	Channel (Mid) 18900	Channel (High) 19185
3	1	0	23.06	23.01	<b>23.15</b>	<b>21.75</b>	21.13	21.67
	1	14	23.13	23.07	22.98	21.74	21.02	21.65
	8	4	22.34	22.01	22.14	20.96	20.82	20.93
	15	0	22.25	21.93	22.08	21.17	20.76	21.13

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175	Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175
5	1	0	23.19	22.4	22.23	21.51	21.44	21.42
	1	24	<b>23.35</b>	22.58	23.1	<b>21.57</b>	21.36	21.45
	12	6	22.28	22.02	22.22	21.21	20.87	21.16
	25	0	22.2	21.94	22.05	21.14	20.88	21.07

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 18650	Channel (Mid) 18900	Channel (High) 19150	Channel (Low) 18650	Channel (Mid) 18900	Channel (High) 19150
10	1	0	22.54	22.46	23.12	21.66	21.71	21.55
	1	49	23.18	22.27	<b>23.19</b>	<b>21.96</b>	21.78	<b>21.96</b>
	25	12	22.26	21.9	22.13	21.41	20.94	21.03
	50	0	22.1	21.88	22.09	21.16	20.77	20.91

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 18675	Channel (Mid) 18900	Channel (High) 19125	Channel (Low) 18675	Channel (Mid) 18900	Channel (High) 19125
15	1	0	23.14	22.8	22.83	<b>22.19</b>	21.74	21.19
	1	74	<b>23.15</b>	22.7	22.91	21.94	21.79	22
	36	19	22.17	21.81	22.01	21.2	20.88	20.99
	75	0	22.16	21.91	22.04	21.11	20.87	21.16

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 18700	Channel (Mid) 18900	Channel (High) 19100	Channel (Low) 18700	Channel (Mid) 18900	Channel (High) 19100
20	1	0	22.05	21.86	<b>23.13</b>	21.8	21.79	22.01
	1	99	22.93	22.93	23.03	21.81	21.82	<b>22.08</b>
	50	25	22.18	21.9	22.12	21.15	20.97	21.07
	100	0	22.07	21.87	21.97	21.26	20.88	20.84

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## LTE Band 4

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393	Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393
1.4	1	0	23.01	23.14	<b>23.38</b>	21.87	22.05	<b>22.39</b>
	1	5	23.04	23.18	23.35	22.16	22.05	22.07
	3	2	23.06	23.22	23.21	22.12	22.12	22.18
	6	0	22.62	22.21	22.35	21.33	21.06	21.08

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385	Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385
3	1	0	<b>23.58</b>	23.25	23.19	<b>22.4</b>	21.46	21.96
	1	14	22.95	23.19	23.37	22.13	21.74	22.01
	8	4	22.56	22.38	22.34	21.38	21.46	21.52
	15	0	22.58	22.21	22.23	21.22	21.29	21.41

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375	Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375
5	1	0	<b>23.58</b>	23.07	23.16	<b>22.13</b>	21.34	<b>22.13</b>
	1	24	23.46	23.03	23.41	22	21.18	21.78
	12	6	22.57	22.36	22.25	21.2	20.98	21.26
	25	0	22.33	22.2	22.22	21.11	21.25	21.19

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350	Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350
10	1	0	22.45	23.48	23.25	22.26	22.14	22
	1	49	<b>23.61</b>	23.18	23.25	<b>22.3</b>	21.91	22.01
	25	12	22.41	22.33	22.35	21.45	21.3	21.32
	50	0	<b>22.48</b>	22.19	22.27	21.56	21.17	21.15

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325	Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325
15	1	0	22.98	23.44	23.3	21.46	22.2	21.91
	1	74	<b>23.47</b>	23.3	23.1	<b>22.44</b>	21.94	21.99
	36	19	22.43	22.32	22.33	21.34	21.19	21.32
	75	0	22.37	22.17	22.27	21.11	21.13	21.25

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300	Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300
20	1	0	22.99	23.2	23.36	22.33	22.27	22.43
	1	99	<b>23.44</b>	23.29	22.95	22.47	22.16	<b>22.53</b>
	50	25	22.49	22.31	22.33	21.47	21.25	21.2
	100	0	22.4	22.19	22.19	21.25	21.06	21.25

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## LTE Band 5

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643	Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643
1.4	1	0	<b>23.85</b>	23.32	23.45	21.85	22.02	21.95
	1	5	23.13	23.32	23.61	21.95	22.04	22.24
	3	2	23.23	23.36	23.57	21.87	<b>22.3</b>	22.16
	6	0	22.28	22.46	22.61	21.04	21.33	21.32

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			20415	20525	20635	20415	20525	20635
3	1	0	23.15	23.34	<b>23.51</b>	21.93	22.08	<b>22.24</b>
	1	14	23.23	23.49	23.47	21.83	22.05	22.12
	8	4	22.36	22.49	22.5	21.29	21.3	21.48
	15	0	22.17	22.39	22.43	21.19	21.26	21.57

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20425	Channel (Mid) 20525	Channel (High) 20625	Channel (Low) 20425	Channel (Mid) 20525	Channel (High) 20625
5	1	0	23.15	23.28	23.38	22.22	22.17	<b>22.31</b>
	1	24	23.23	23.27	<b>23.51</b>	22.15	22.09	22.14
	12	6	22.29	22.49	22.6	21.33	21.44	21.42
	25	0	22.17	22.4	22.44	21.24	21.41	21.5

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600	Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600
10	1	0	23.13	23.37	23.58	22.13	22.17	22.22
	1	49	23.48	<b>23.65</b>	23.64	22.07	<b>22.35</b>	<b>22.35</b>
	25	12	22.31	22.43	22.51	21.3	21.42	21.67
	50	0	22.31	22.38	22.41	21.2	21.48	21.57

## LTE Band 7

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425	Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425
5	1	0	23.65	23.35	23.43	22.19	22.01	22.16
	1	24	23.2	23.22	23.51	22.1	22	22.14
	12	6	22.25	22.96	22.46	21.3	21.86	21.67
	25	0	22.31	22.95	22.23	21.15	21.8	21.37

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20800	Channel (Mid) 21100	Channel (High) 21400	Channel (Low) 20800	Channel (Mid) 21100	Channel (High) 21400
10	1	0	<b>23.61</b>	23.29	23.2	<b>22.47</b>	22.01	21.84
	1	49	23.19	23.14	23.58	22.02	22.2	22.12
	25	12	22.42	22.97	22.21	21.33	21.57	21.5
	50	0	22.33	22.85	22.59	21.13	21.81	21.59

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20825	Channel (Mid) 21100	Channel (High) 21375	Channel (Low) 20825	Channel (Mid) 21100	Channel (High) 21375
15	1	0	23.4	23.33	23.35	22.1	<b>22.81</b>	22.16
	1	74	23.4	23.09	<b>23.55</b>	22.01	22.71	22.07
	36	19	22.41	22.91	22.68	21.3	21.9	21.21
	75	0	22.47	22.9	22.41	21.12	21.85	21.15

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350	Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350
20	1	0	23.6	23.68	23.26	22.25	<b>22.48</b>	21.98
	1	99	23.41	23.04	<b>23.72</b>	22.37	21.71	22.2
	50	25	22.58	22.91	22.5	21.46	21.97	21.39
	100	0	22.67	22.8	22.41	21.39	21.22	21.25

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## LTE Band 12

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23017	Channel (Mid) 23095	Channel (High) 23173	Channel (Low) 23017	Channel (Mid) 23095	Channel (High) 23173
1.4	1	0	23.38	23.37	23.59	22.14	22.23	<b>22.48</b>
	1	5	23.57	23.53	23.46	22.1	21.96	22.25
	3	2	<b>23.62</b>	23.58	23.51	<b>22.48</b>	22.43	22.39
	6	0	22.51	22.52	22.5	21.21	21.43	21.26

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23025	Channel (Mid) 23095	Channel (High) 23165	Channel (Low) 23025	Channel (Mid) 23095	Channel (High) 23165
3	1	0	23.59	23.45	<b>23.63</b>	22.27	22.02	<b>22.3</b>
	1	14	23.2	23.47	23.58	21.69	22.07	22.05
	8	4	22.46	22.53	22.61	21.36	21.35	21.33
	15	0	22.6	22.45	22.52	21.27	21.5	21.45

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23035	Channel (Mid) 23095	Channel (High) 23155	Channel (Low) 23035	Channel (Mid) 23095	Channel (High) 23155
5	1	0	23.59	23.45	<b>23.61</b>	22.12	<b>22.16</b>	21.83
	1	24	23.05	23.5	23.51	22.09	21.84	21.96
	12	6	22.43	22.5	22.56	21.33	21.52	21.27
	25	0	22.25	22.46	22.51	21.41	21.46	21.35

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23060	Channel (Mid) 23095	Channel (High) 23130	Channel (Low) 23060	Channel (Mid) 23095	Channel (High) 23130
10	1	0	23.52	23.18	23.28	21.75	21.9	<b>22.36</b>
	1	49	23.57	23.37	<b>23.67</b>	22.34	22.27	22.29
	25	12	22.43	22.42	22.45	21.5	21.46	21.37
	50	0	22.29	22.43	22.35	21.39	21.4	21.52

## LTE Band 17

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23755	Channel (Mid) 23790	Channel (High) 23825	Channel (Low) 23755	Channel (Mid) 23790	Channel (High) 23825
5	1	0	23.49	<b>23.63</b>	23.45	22.06	22.16	<b>22.19</b>
	1	24	23.34	23.45	23.29	22.11	22.09	22.05
	12	6	22.39	22.31	22.49	21.53	21.42	21.42
	25	0	22.38	22.42	22.31	21.42	21.24	21.56

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800	Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800
10	1	0	23.52	23.37	23.4	21.93	21.75	21.85
	1	49	<b>23.59</b>	23.21	23.19	<b>22.2</b>	21.87	21.94
	25	12	22.45	22.45	22.59	21.48	21.55	21.3
	50	0	22.52	22.42	22.48	21.43	21.44	21.26

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## LTE Band 26

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26797	Channel (Mid) 26915	Channel (High) 27033	Channel (Low) 26797	Channel (Mid) 26915	Channel (High) 27033
1.4	1	0	23.36	23.19	23.29	22.45	22.73	22.54
	1	5	23.6	23.47	23.41	22.44	<b>22.83</b>	22.61
	3	2	23.13	<b>23.7</b>	23.35	22.38	22.43	22.77
	6	0	22.46	22.78	22.85	21.6	21.86	21.68

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel l (Low) 26805	Channel l (Mid) 26915	Channel l (High) 27025	Channel l (Low) 26805	Channel l (Mid) 26915	Channel l (High) 27025
3	1	0	23.86	23.78	23.82	22.58	22.41	22.31
	1	14	23.71	<b>23.96</b>	23.89	22.29	<b>22.61</b>	22.46
	8	4	22.82	22.97	22.93	21.55	21.61	21.78
	15	0	22.58	22.79	22.63	21.47	21.48	21.74

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26815	Channel (Mid) 26915	Channel (High) 27015	Channel (Low) 26815	Channel (Mid) 26915	Channel (High) 27015
5	1	0	23.55	23.75	<b>23.93</b>	22.65	22.66	22.75
	1	24	23.61	23.66	23.67	22.48	22.41	<b>22.82</b>
	12	6	22.82	22.85	22.65	21.57	21.63	21.71
	25	0	22.7	22.81	22.79	21.8	21.84	21.86

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel l (Low) 26840	Channel l (Mid) 26915	Channel l (High) 26990	Channel l (Low) 26840	Channel l (Mid) 26915	Channel l (High) 26990
10	1	0	23.82	23.62	23.68	22.45	22.41	22.78
	1	49	23.45	<b>23.86</b>	23.72	22.57	22.78	<b>22.85</b>
	25	12	22.79	22.94	22.93	21.86	21.79	21.73
	50	0	22.67	22.86	22.85	21.71	21.83	21.84

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26865	Channel (Mid) 26915	Channel (High) 26965	Channel (Low) 26865	Channel (Mid) 26915	Channel (High) 26965
15	1	0	23.7	23.76	<b>23.97</b>	22.38	22.46	22.5
	1	74	23.82	23.79	23.81	<b>22.7</b>	22.61	22.58
	36	19	22.37	22.84	22.93	21.66	21.86	21.78
	75	0	22.7	22.79	22.54	21.82	21.96	21.69

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## LTE Band 41

LTE Band 41 Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 39675	Channel (Mid) 40620	Channel (High) 41565	Channel (Low) 39675	Channel (Mid) 40620	Channel (High) 41565
5	1	0	<b>23.38</b>	22.83	22.93	<b>22.24</b>	22.09	22.12
	1	24	23.26	22.95	22.98	22.01	22.01	22.01
	12	6	22.25	22.19	22.3	21.22	21.08	21.18
	25	0	22.16	22.11	22.11	21.14	21.01	21.08

LTE Band 41 Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 39700	Channel (Mid) 40620	Channel (High) 41540	Channel (Low) 39700	Channel (Mid) 40620	Channel (High) 41540
10	1	0	23.24	23.36	23.08	<b>22.42</b>	21.95	22.34
	1	49	<b>23.43</b>	23.25	23.25	22.03	21.72	22.12
	25	12	22.3	22.2	22.24	21.53	21.24	21.21
	50	0	22.16	22.09	22.12	21.21	21.04	21.18

LTE Band 41 Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 39725	Channel (Mid) 40620	Channel (High) 41515	Channel (Low) 39725	Channel (Mid) 40620	Channel (High) 41515
15	1	0	22.94	<b>23.44</b>	22.9	22.19	21.83	<b>22.32</b>
	1	74	23.39	23.26	22.95	22.08	21.74	22.13
	36	19	22.21	22.19	22.18	21.2	21.11	21.19
	75	0	22.22	22.12	21.88	21.17	21.17	21.08

LTE Band 41 Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 39750	Channel (Mid) 40620	Channel (High) 41490	Channel (Low) 39750	Channel (Mid) 40620	Channel (High) 41490
20	1	0	22.91	23.34	22.95	22.01	21.98	<b>22.43</b>
	1	99	<b>23.45</b>	22.75	22.78	21.89	21.88	22.12
	50	25	22.27	22.17	22.09	21.31	21.14	21.1
	100	0	22.21	22.14	21.84	21.23	21.07	21.09

## LTE Band 26 for Part 90S

LTE Band 26 Uplink frequency band : 8114 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26697	Channel (Mid) 26740	Channel (High) 26783	Channel (Low) 26697	Channel (Mid) 26740	Channel (High) 26783
1.4	1	0	23.46	<b>23.59</b>	23.47	22.59	22.23	22.18
	1	5	23.42	23.19	23.16	22.48	22.38	22.5
	3	2	23.39	23.44	23.11	<b>22.66</b>	22.56	22.34
	6	0	22.43	22.71	22.32	21.43	21.89	21.54

LTE Band 26 Uplink frequency band : 8114 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26705	Channel (Mid) 26740	Channel (High) 26775	Channel (Low) 26705	Channel (Mid) 26740	Channel (High) 26775
3	1	0	23.55	23.73	<b>23.96</b>	<b>22.48</b>	22.31	22.39
	1	14	23.29	23.46	23.81	<b>22.48</b>	22.47	22.31
	8	4	22.68	22.7	22.24	21.43	21.47	21.53
	15	0	22.64	22.72	22.69	21.43	21.6	21.58

LTE Band 26 Uplink frequency band : 8114 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26715	Channel (Mid) 26740	Channel (High) 26765	Channel (Low) 26715	Channel (Mid) 26740	Channel (High) 26765
5	1	0	23.43	23.6	23.54	22.48	22.46	<b>22.66</b>
	1	24	23.46	23.64	<b>23.66</b>	22.05	22.26	22.45
	12	6	22.69	22.3	22.62	21.32	21.48	21.87
	25	0	22.66	22.71	22.58	21.53	21.26	21.71

LTE Band 26 Uplink frequency band : 8114 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Mid) 26740			Channel (Mid) 26740		
10	1	0	23.44			22.54		
	1	49	<b>23.64</b>			<b>22.6</b>		
	25	12	22.7			21.61		
	50	0	22.19			21.59		

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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 (Band II)	1	24.38	24.26	24.3	20.3dBm – 25.7dBm	Pass
	2	24.09	24.23	24.29	20.3dBm – 25.7dBm	Pass
	3	23.9	23.81	23.77	19.8dBm – 25.7dBm	Pass
	4	23.97	23.82	23.89	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		1312	1413	1513		
HSDPA (Band IV)	1	24.08	24.36	24.03	20.3dBm – 25.7dBm	Pass
	2	24.25	24.12	24.04	20.3dBm – 25.7dBm	Pass
	3	23.6	23.91	23.5	19.8dBm – 25.7dBm	Pass
	4	23.67	23.92	23.62	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		4132	4183	4233		
HSDPA (Band V)	1	24.25	24.11	24.31	20.3dBm – 25.7dBm	Pass
	2	24.39	24.14	24.06	20.3dBm – 25.7dBm	Pass
	3	23.77	23.63	23.82	19.8dBm – 25.7dBm	Pass
	4	23.84	23.67	23.88	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.**

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## Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		9262	9400	9538		
HSUPA (Band II)	1	24.13	<b>24.35</b>	24.38	18.8dBm – 25.7dBm	<b>Pass</b>
	2	22.18	22.42	22.42	16.8dBm – 25.7dBm	<b>Pass</b>
	3	23.19	23.37	23.46	17.8dBm – 25.7dBm	<b>Pass</b>
	4	22.31	22.47	22.46	16.8dBm – 25.7dBm	<b>Pass</b>
	5	24.02	24.21	24.29	18.8dBm – 25.7dBm	<b>Pass</b>

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		1312	1413	1513		
HSDPA (Band IV)	1	24.29	24.24	<b>24.13</b>	20.3dBm – 25.7dBm	<b>Pass</b>
	2	22.34	22.31	22.17	20.3dBm – 25.7dBm	<b>Pass</b>
	3	23.35	23.26	23.21	19.8dBm – 25.7dBm	<b>Pass</b>
	4	22.47	22.36	22.21	19.8dBm – 25.7dBm	<b>Pass</b>
	5	24.18	24.1	24.04	19.8dBm – 25.7dBm	<b>Pass</b>

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		4132	4183	4233		
HSUPA (Band V)	1	24.42	<b>24.18</b>	24.11	18.8dBm – 25.7dBm	<b>Pass</b>
	2	22.48	22.26	22.15	16.8dBm – 25.7dBm	<b>Pass</b>
	3	23.46	23.24	23.19	17.8dBm – 25.7dBm	<b>Pass</b>
	4	22.53	22.32	22.23	16.8dBm – 25.7dBm	<b>Pass</b>
	5	24.28	24.01	24	18.8dBm – 25.7dBm	<b>Pass</b>

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## Minimum Communications Power Measurement

### PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	29.62	27.53	25.43	23.45	21.3	19.35	17.4	15.35	13.33

PCL	9	10	11	12	13	14	15
Output power (dBm)	11.43	9.35	7.29	5.36	3.6	1.53	-1.12

Note: The EUT output power was controlled by simulator. Set Communication Tester [MT8820C](#) PCL as above, and get the mobile phone output power reading.

### 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(c) (9) Control stations and mobile stations are limited to 30 watts ERP.

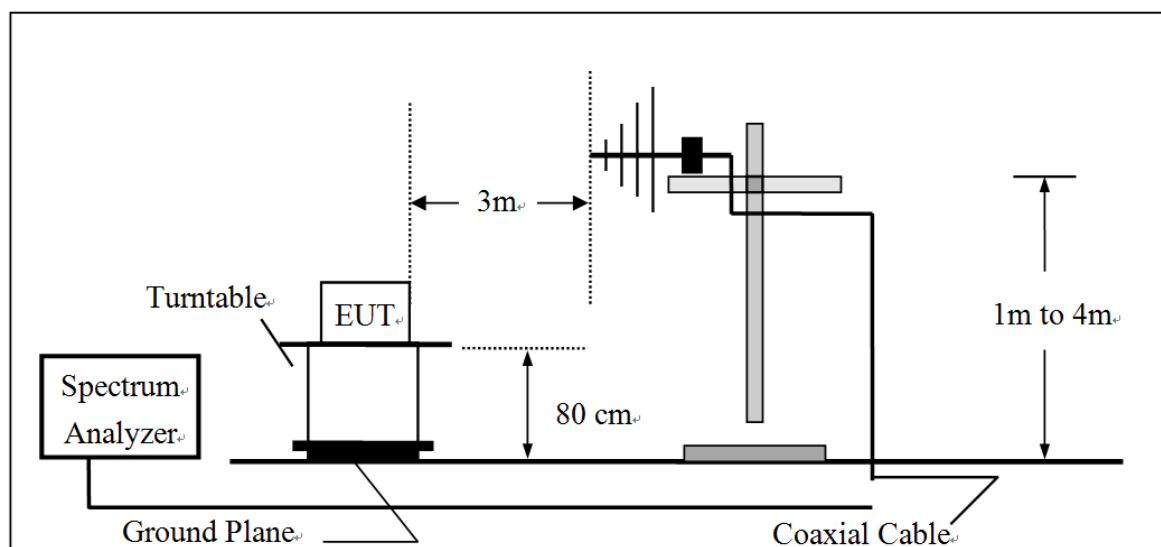
FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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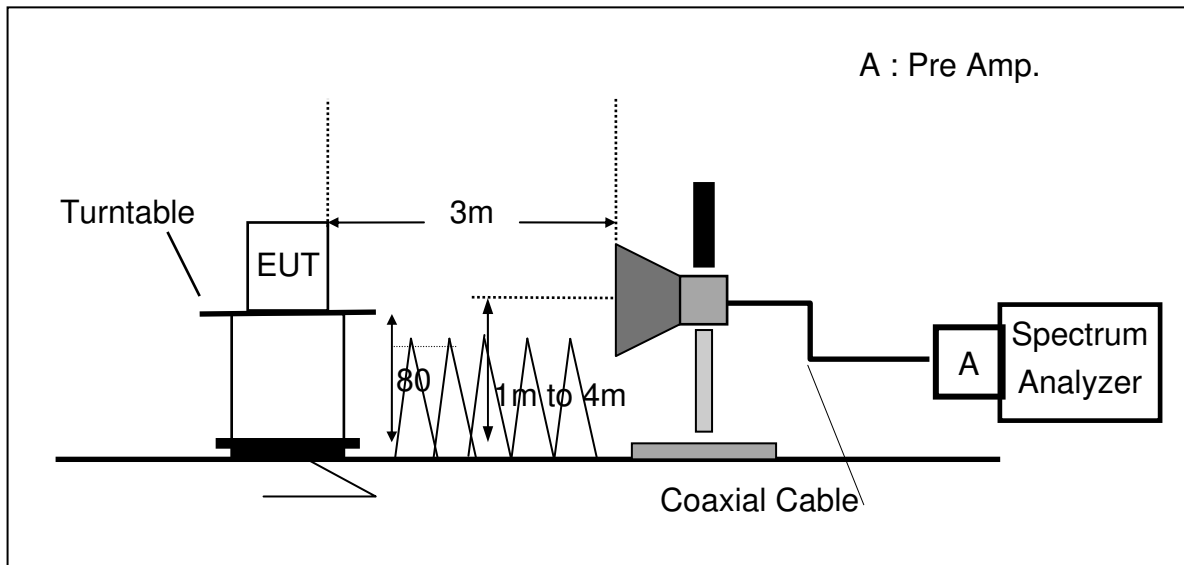
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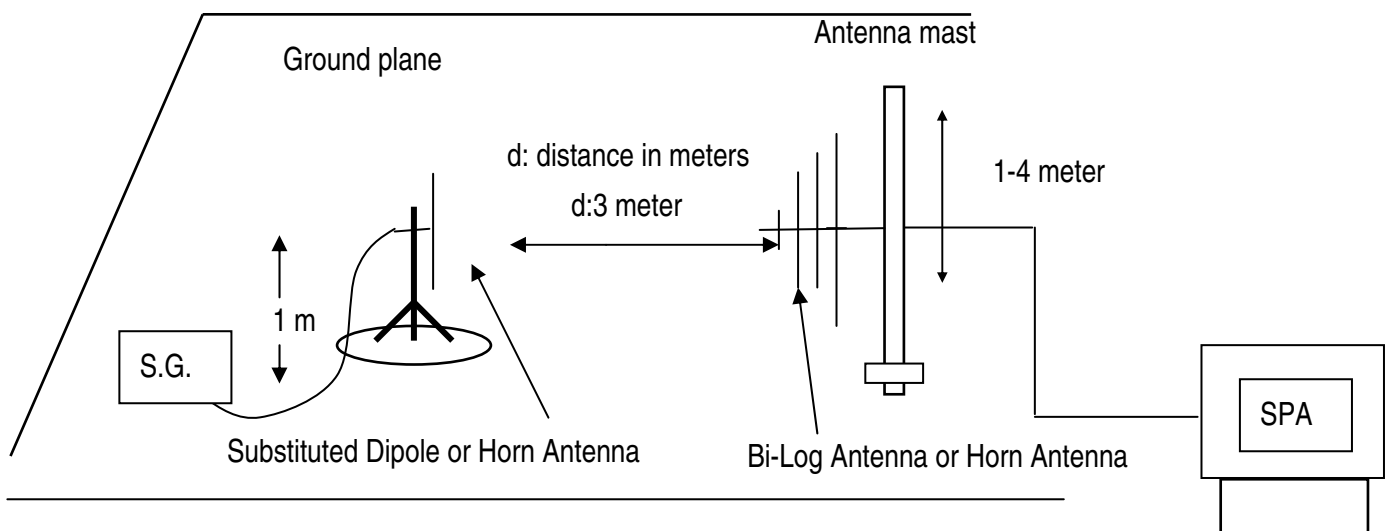
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## (B) Radiated Power Test Set-UP Frequency Over 1 GHz



## (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  $\approx 1 \sim 5\%$  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	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2016	01/01/2017
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyer	Anritsu	MT8820C	6201465317	12/10/2016	12/09/2017
Signal Generator	Agilent	E4438C	MY45093613	07/07/2016	07/06/2017
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2016	01/01/2017
Filter 1800-2000	Micro-Tronics	EWT	M1	01/02/2016	01/01/2017
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2016	01/01/2017
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2016	01/01/2017

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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	ERP	Limit

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit

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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
<b>BAND 2 BW: 1.4M QPSK RB: 1,0</b>	1850.7	18607	V	10.39	9.95	-4.46	15.88	33.01
			H	18.22	9.94	-4.46	23.7	33.01
	1880.0	18900	V	11.19	10.03	-4.51	16.72	33.01
			H	19.55	10.03	-4.51	<b>25.07</b>	33.01
	1909.3	19193	V	10.54	10.12	-4.55	16.11	33.01
			H	19.12	10.12	-4.55	24.7	33.01
<b>BAND 2 BW: 1.4M QPSK RB: 1,5</b>	1850.7	18607	V	10.16	9.94	-4.46	15.64	33.01
			H	18.03	9.94	-4.46	23.51	33.01
	1880.0	18900	V	11.17	10.03	-4.51	16.69	33.01
			H	19.63	10.03	-4.51	<b>25.16</b>	33.01
	1909.3	19193	V	10.23	10.12	-4.55	15.81	33.01
			H	19	10.12	-4.55	24.58	33.01
<b>BAND 2 BW: 1.4M 16QAM RB: 1,0</b>	1850.7	18607	V	10.12	9.94	-4.46	15.61	33.01
			H	17.62	9.95	-4.46	23.1	33.01
	1880.0	18900	V	10.81	10.03	-4.51	16.33	33.01
			H	19.86	10.04	-4.51	<b>25.39</b>	33.01
	1909.3	19193	V	10.38	10.12	-4.55	15.96	33.01
			H	18.94	10.12	-4.55	24.51	33.01
<b>BAND 2 BW: 1.4M 16QAM RB: 1,5</b>	1850.7	18607	V	10.02	9.94	-4.46	15.5	33.01
			H	17.8	9.94	-4.46	23.28	33.01
	1880.0	18900	V	11.22	10.03	-4.51	16.75	33.01
			H	19.82	10.04	-4.51	<b>25.35</b>	33.01
	1909.3	19193	V	9.99	10.12	-4.55	15.56	33.01
			H	18.89	10.12	-4.55	24.46	33.01

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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
<b>BAND 2 BW: 3M QPSK RB: 1,0</b>	1851.5	18615	V	10.25	9.94	-4.46	15.74	33.01
			H	17.78	9.95	-4.46	23.26	33.01
	1880.0	18900	V	11.36	10.03	-4.5	16.88	33.01
			H	19.45	10.03	-4.5	<b>24.97</b>	33.01
	1908.5	19185	V	11.03	10.12	-4.55	16.6	33.01
			H	19.39	10.12	-4.55	24.96	33.01
<b>BAND 2 BW: 3M QPSK RB: 1,14</b>	1851.5	18615	V	10.32	9.94	-4.46	15.8	33.01
			H	18.04	9.94	-4.46	23.52	33.01
	1880.0	18900	V	11.39	10.03	-4.51	16.91	33.01
			H	19.53	10.03	-4.51	<b>25.05</b>	33.01
	1908.5	19185	V	10.35	10.12	-4.55	15.92	33.01
			H	19.13	10.12	-4.55	24.7	33.01
<b>BAND 2 BW: 3M 16QAM RB: 1,0</b>	1851.5	18615	V	10.13	9.95	-4.46	15.61	33.01
			H	17.63	9.94	-4.46	23.11	33.01
	1880.0	18900	V	10.81	10.03	-4.5	16.33	33.01
			H	19.29	10.03	-4.51	<b>24.81</b>	33.01
	1908.5	19185	V	10.52	10.11	-4.55	16.09	33.01
			H	19.09	10.11	-4.55	24.66	33.01
<b>BAND 2 BW: 3M 16QAM RB: 1,14</b>	1851.5	18615	V	9.99	9.94	-4.46	15.47	33.01
			H	17.79	9.94	-4.46	23.27	33.01
	1880.0	18900	V	11.46	10.04	-4.51	16.98	33.01
			H	19.09	10.03	-4.51	<b>24.62</b>	33.01
	1908.5	19185	V	10.13	10.12	-4.55	15.71	33.01
			H	18.85	10.12	-4.55	24.43	33.01

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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
<b>BAND 2 BW: 5M QPSK RB: 1,0</b>	1852.5	18625	V	10.1	9.94	-4.46	15.58	33.01
			H	17.76	9.95	-4.46	23.24	33.01
	1880.0	18900	V	11.17	10.02	-4.5	16.69	33.01
			H	19.27	10.02	-4.5	24.79	33.01
	1907.5	19175	V	10.82	10.11	-4.54	16.39	33.01
			H	19.49	10.11	-4.54	<b>25.06</b>	33.01
<b>BAND 2 BW: 5M QPSK RB: 1,24</b>	1852.5	18625	V	9.92	9.95	-4.47	15.4	33.01
			H	17.92	9.95	-4.47	23.41	33.01
	1880.0	18900	V	11.18	10.04	-4.51	16.7	33.01
			H	19.33	10.04	-4.51	<b>24.86</b>	33.01
	1907.5	19175	V	10.28	10.12	-4.55	15.85	33.01
			H	18.99	10.12	-4.55	24.56	33.01
<b>BAND 2 BW: 5M 16QAM RB: 1,0</b>	1852.5	18625	V	9.97	9.94	-4.46	15.45	33.01
			H	17.45	9.95	-4.46	22.93	33.01
	1880.0	18900	V	10.69	10.02	-4.5	16.21	33.01
			H	19.27	10.02	-4.5	<b>24.79</b>	33.01
	1907.5	19175	V	10.42	10.12	-4.55	15.99	33.01
			H	19.11	10.11	-4.54	24.68	33.01
<b>BAND 2 BW: 5M 16QAM RB: 1,24</b>	1852.5	18625	V	9.8	9.95	-4.47	15.29	33.01
			H	17.65	9.95	-4.47	23.13	33.01
	1880.0	18900	V	10.66	10.04	-4.51	16.18	33.01
			H	18.87	10.04	-4.51	24.4	33.01
	1907.5	19175	V	10.04	10.12	-4.55	15.61	33.01
			H	18.89	10.12	-4.55	<b>24.46</b>	33.01

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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
<b>BAND 2 BW: 10M QPSK RB: 1,0</b>	1855.0	18650	V	10.05	9.95	-4.46	15.54	33.01
			H	17.56	9.95	-4.46	23.04	33.01
	1880.0	18900	V	11	10.02	-4.5	16.52	33.01
			H	19.3	10.02	-4.5	24.82	33.01
	1905.0	19150	V	11.07	10.09	-4.54	16.63	33.01
			H	20.01	10.09	-4.54	<b>25.57</b>	33.01
<b>BAND 2 BW: 10M QPSK RB: 1,49</b>	1855.0	18650	V	10.31	9.97	-4.47	15.8	33.01
			H	18.2	9.97	-4.47	23.69	33.01
	1880.0	18900	V	11.11	10.04	-4.51	16.64	33.01
			H	19.37	10.04	-4.51	<b>24.9</b>	33.01
	1905.0	19150	V	10.34	10.12	-4.55	15.91	33.01
			H	19.07	10.12	-4.55	24.65	33.01
<b>BAND 2 BW: 10M 16QAM RB: 1,0</b>	1855.0	18650	V	9.76	9.95	-4.46	15.24	33.01
			H	17.36	9.95	-4.46	22.84	33.01
	1880.0	18900	V	10.57	10.02	-4.5	16.08	33.01
			H	18.78	10.02	-4.5	24.3	33.01
	1905.0	19150	V	10.1	10.09	-4.54	15.65	33.01
			H	19.08	10.09	-4.54	<b>24.64</b>	33.01
<b>BAND 2 BW: 10M 16QAM RB: 1,49</b>	1855.0	18650	V	10.19	9.97	-4.47	15.68	33.01
			H	17.7	9.96	-4.47	23.2	33.01
	1880.0	18900	V	10.59	10.04	-4.51	16.12	33.01
			H	18.85	10.04	-4.51	<b>24.38</b>	33.01
	1905.0	19150	V	9.85	10.12	-4.55	15.43	33.01
			H	18.69	10.12	-4.55	24.26	33.01

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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
<b>BAND 2 BW: 15M QPSK RB: 1,0</b>	1857.5	18675	V	10.04	9.94	-4.46	15.52	33.01
			H	17.57	9.94	-4.46	23.05	33.01
	1880.0	18900	V	10.96	10.01	-4.5	16.48	33.01
			H	19.13	10.01	-4.5	24.64	33.01
	1902.5	19125	V	11.04	10.08	-4.53	16.59	33.01
			H	19.37	10.08	-4.53	<b>24.92</b>	33.01
<b>BAND 2 BW: 15M QPSK RB: 1,74</b>	1857.5	18675	V	10.88	9.98	-4.48	16.38	33.01
			H	18.59	9.98	-4.48	24.09	33.01
	1880.0	18900	V	11.07	10.05	-4.52	16.6	33.01
			H	19.24	10.05	-4.52	<b>24.77</b>	33.01
	1902.5	19125	V	10.27	10.12	-4.55	15.85	33.01
			H	19.12	10.12	-4.55	24.69	33.01
<b>BAND 2 BW: 15M 16QAM RB: 1,0</b>	1857.5	18675	V	9.73	9.94	-4.46	15.21	33.01
			H	17.28	9.95	-4.46	22.76	33.01
	1880.0	18900	V	10.56	10.01	-4.5	16.07	33.01
			H	18.75	10.01	-4.5	24.26	33.01
	1902.5	19125	V	10.68	10.08	-4.53	16.23	33.01
			H	18.99	10.08	-4.53	<b>24.54</b>	33.01
<b>BAND 2 BW: 15M 16QAM RB: 1,74</b>	1857.5	18675	V	10.44	9.98	-4.48	15.93	33.01
			H	18.23	9.98	-4.48	23.73	33.01
	1880.0	18900	V	10.46	10.05	-4.52	16	33.01
			H	18.78	10.05	-4.52	24.32	33.01
	1902.5	19125	V	9.96	10.12	-4.55	15.53	33.01
			H	18.85	10.12	-4.55	<b>24.42</b>	33.01

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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
<b>BAND 2 BW: 20M QPSK RB: 1,0</b>	1860.0	18700	V	10.03	9.94	-4.46	15.51	33.01
			H	17.54	9.95	-4.46	23.03	33.01
	1880.0	18900	V	10.79	10	-4.49	16.3	33.01
			H	19.11	10	-4.49	24.62	33.01
	1900.0	19100	V	11.09	10.07	-4.52	16.64	33.01
			H	19.19	10.07	-4.52	<b>24.73</b>	33.01
<b>BAND 2 BW: 20M QPSK RB: 1,99</b>	1860.0	18700	V	11.03	10	-4.49	16.53	33.01
			H	19	9.99	-4.49	24.51	33.01
	1880.0	18900	V	11.1	10.06	-4.52	16.64	33.01
			H	19.17	10.06	-4.52	<b>24.7</b>	33.01
	1900.0	19100	V	10.23	10.12	-4.55	15.8	33.01
			H	19.11	10.12	-4.55	24.68	33.01
<b>BAND 2 BW: 20M 16QAM RB: 1,0</b>	1860.0	18700	V	9.82	9.94	-4.46	15.3	33.01
			H	17.36	9.94	-4.46	22.84	33.01
	1880.0	18900	V	10.28	10	-4.49	15.79	33.01
			H	18.57	10.01	-4.5	24.08	33.01
	1900.0	19100	V	10.65	10.07	-4.52	16.19	33.01
			H	18.79	10.07	-4.52	<b>24.33</b>	33.01
<b>BAND 2 BW: 20M 16QAM RB: 1,99</b>	1860.0	18700	V	10.35	10	-4.49	15.86	33.01
			H	18.35	9.99	-4.49	23.86	33.01
	1880.0	18900	V	10.66	10.06	-4.52	16.19	33.01
			H	18.88	10.06	-4.52	<b>24.41</b>	33.01
	1900.0	19100	V	9.94	10.12	-4.55	15.52	33.01
			H	18.84	10.12	-4.55	<b>24.41</b>	33.01

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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
<b>BAND 4 BW: 1.4M/ QPSK RB: 1,0</b>	1710.7	19957	V	9.36	9.48	-4.31	14.53	30.00
			H	13.76	9.48	-4.31	<b>18.93</b>	30.00
	1732.5	20175	V	8.33	9.54	-4.31	13.56	30.00
			H	12.26	9.55	-4.31	17.49	30.00
	1754.3	20393	V	7.34	9.62	-4.34	12.62	30.00
			H	12.76	9.62	-4.34	18.05	30.00
<b>BAND 4 BW: 1.4M QPSK RB: 1,5</b>	1710.7	19957	V	9.4	9.47	-4.31	14.57	30.00
			H	13.85	9.47	-4.31	<b>19.02</b>	30.00
	1732.5	20175	V	8.38	9.55	-4.31	13.62	30.00
			H	12.26	9.55	-4.31	17.5	30.00
	1754.3	20393	V	7.38	9.62	-4.34	12.67	30.00
			H	12.71	9.62	-4.34	18	30.00
<b>BAND 4 BW: 1.4M 16QAM RB: 1,0</b>	1710.7	19957	V	9.19	9.48	-4.31	14.36	30.00
			H	13.57	9.48	-4.31	<b>18.74</b>	30.00
	1732.5	20175	V	8.05	9.55	-4.31	13.28	30.00
			H	12.26	9.55	-4.31	17.5	30.00
	1754.3	20393	V	6.95	9.62	-4.34	12.23	30.00
			H	12.45	9.62	-4.34	17.73	30.00
<b>BAND 4 BW: 1.4M 16QAM RB: 1,5</b>	1710.7	19957	V	9.18	9.47	-4.31	14.34	30.00
			H	13.66	9.47	-4.31	<b>18.82</b>	30.00
	1732.5	20175	V	8.1	9.55	-4.31	13.34	30.00
			H	12.03	9.55	-4.31	17.26	30.00
	1754.3	20393	V	7.05	9.62	-4.34	12.33	30.00
			H	12.26	9.62	-4.34	17.54	30.00

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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
<b>BAND 4 BW: 3M QPSK RB: 1,0</b>	1711.5	19965	V	9.59	9.48	-4.31	14.76	30.00
			H	13.85	9.48	-4.31	<b>19.02</b>	30.00
	1732.5	20175	V	8.32	9.54	-4.31	13.56	30.00
			H	12.18	9.54	-4.31	17.41	30.00
	1753.5	20385	V	7.66	9.61	-4.33	12.94	30.00
			H	13.32	9.61	-4.33	18.6	30.00
<b>BAND 4 BW: 3M QPSK RB: 1,14</b>	1711.5	19965	V	9.42	9.48	-4.31	14.59	30.00
			H	13.94	9.48	-4.31	<b>19.11</b>	30.00
	1732.5	20175	V	8.47	9.55	-4.31	13.71	30.00
			H	12.45	9.55	-4.31	17.69	30.00
	1753.5	20385	V	7.48	9.62	-4.34	12.76	30.00
			H	12.74	9.62	-4.34	18.02	30.00
<b>BAND 4 BW: 3M 16QAM RB: 1,0</b>	1711.5	19965	V	9.36	9.48	-4.31	14.53	30.00
			H	13.6	9.48	-4.31	<b>18.77</b>	30.00
	1732.5	20175	V	8.16	9.54	-4.31	13.39	30.00
			H	11.92	9.54	-4.31	17.15	30.00
	1753.5	20385	V	7.21	9.61	-4.33	12.49	30.00
			H	12.77	9.61	-4.33	18.06	30.00
<b>BAND 4 BW: 3M 16QAM RB: 1,14</b>	1711.5	19965	V	9.02	9.48	-4.31	14.19	30.00
			H	13.44	9.48	-4.31	<b>18.61</b>	30.00
	1732.5	20175	V	8.17	9.55	-4.31	13.41	30.00
			H	12.19	9.55	-4.31	17.43	30.00
	1753.5	20385	V	7.13	9.62	-4.34	12.42	30.00
			H	12.32	9.62	-4.34	17.6	30.00

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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
<b>BAND 4 BW: 5M QPSK RB: 1,0</b>	1712.5	19975	V	9.54	9.48	-4.31	14.71	30.00
			H	13.82	9.48	-4.31	<b>18.99</b>	30.00
	1732.5	20175	V	8.36	9.54	-4.31	13.59	30.00
			H	12.09	9.54	-4.31	17.32	30.00
	1752.5	20375	V	7.31	9.61	-4.33	12.59	30.00
			H	13.47	9.61	-4.33	18.75	30.00
<b>BAND 4 BW: 5M QPSK RB: 1,24</b>	1712.5	19975	V	9.13	9.48	-4.31	14.31	30.00
			H	13.51	9.48	-4.31	<b>18.68</b>	30.00
	1732.5	20175	V	8.32	9.55	-4.31	13.56	30.00
			H	12.35	9.55	-4.31	17.59	30.00
	1752.5	20375	V	7.54	9.62	-4.34	12.83	30.00
			H	12.63	9.62	-4.34	17.91	30.00
<b>BAND 4 BW: 5M 16QAM RB: 1,0</b>	1712.5	19975	V	9.54	9.48	-4.31	14.71	30.00
			H	13.85	9.48	-4.31	<b>19.02</b>	30.00
	1732.5	20175	V	8.19	9.54	-4.31	13.42	30.00
			H	11.83	9.54	-4.31	17.06	30.00
	1752.5	20375	V	6.83	9.61	-4.33	12.11	30.00
			H	12.91	9.61	-4.33	18.18	30.00
<b>BAND 4 BW: 5M 16QAM RB: 1,24</b>	1712.5	19975	V	8.92	9.49	-4.31	14.09	30.00
			H	13.39	9.48	-4.31	<b>18.56</b>	30.00
	1732.5	20175	V	7.87	9.55	-4.31	13.11	30.00
			H	11.93	9.55	-4.31	17.18	30.00
	1752.5	20375	V	6.84	9.62	-4.34	12.13	30.00
			H	12.11	9.62	-4.34	17.4	30.00

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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
<b>BAND 4 BW: 10M QPSK RB: 1,0</b>	1715.0	20000	V	9.36	9.47	-4.31	14.53	30.00
			H	13.71	9.48	-4.31	<b>18.88</b>	30.00
	1732.5	20175	V	8.21	9.54	-4.31	13.44	30.00
			H	11.75	9.54	-4.31	16.98	30.00
	1750.0	20350	V	7.24	9.6	-4.33	12.52	30.00
			H	13.12	9.6	-4.33	18.4	30.00
<b>BAND 4 BW: 10M QPSK RB: 1,49</b>	1715.0	20000	V	8.42	9.5	-4.31	13.61	30.00
			H	12.53	9.5	-4.31	17.72	30.00
	1732.5	20175	V	8.21	9.56	-4.31	13.46	30.00
			H	12.63	9.56	-4.31	<b>17.88</b>	30.00
	1750.0	20350	V	7.32	9.62	-4.34	12.6	30.00
			H	12.56	9.62	-4.34	17.84	30.00
<b>BAND 4 BW: 10M 16QAM RB: 1,0</b>	1715.0	20000	V	9.3	9.48	-4.31	14.47	30.00
			H	13.63	9.48	-4.31	<b>18.8</b>	30.00
	1732.5	20175	V	8	9.54	-4.31	13.23	30.00
			H	11.6	9.54	-4.31	16.83	30.00
	1750.0	20350	V	6.25	9.6	-4.33	11.52	30.00
			H	12.39	9.6	-4.33	17.66	30.00
<b>BAND 4 BW: 10M 16QAM RB: 1,49</b>	1715.0	20000	V	7.74	9.5	-4.31	12.93	30.00
			H	12.13	9.5	-4.31	17.32	30.00
	1732.5	20175	V	7.73	9.56	-4.31	12.98	30.00
			H	12.1	9.56	-4.31	17.35	30.00
	1750.0	20350	V	7.03	9.62	-4.34	12.31	30.00
			H	12.29	9.62	-4.34	<b>17.57</b>	30.00

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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
<b>BAND 4 BW: 15M QPSK RB: 1,0</b>	1717.5	20025	V	9.47	9.47	-4.31	14.63	30.00
			H	13.73	9.47	-4.31	<b>18.9</b>	30.00
	1732.5	20175	V	8.35	9.53	-4.31	13.56	30.00
			H	11.83	9.53	-4.31	17.06	30.00
	1747.5	20325	V	7.53	9.58	-4.31	12.8	30.00
			H	13.03	9.59	-4.32	18.3	30.00
<b>BAND 4 BW: 15M QPSK RB: 1,74</b>	1717.5	20025	V	8.45	9.52	-4.31	13.65	30.00
			H	11.9	9.52	-4.31	17.11	30.00
	1732.5	20175	V	8.19	9.57	-4.31	13.45	30.00
			H	12.68	9.57	-4.31	17.94	30.00
	1747.5	20325	V	7.19	9.62	-4.34	12.47	30.00
			H	12.71	9.62	-4.34	<b>18</b>	30.00
<b>BAND 4 BW: 15M 16QAM RB: 1,0</b>	1717.5	20025	V	9.08	9.47	-4.31	14.25	30.00
			H	13.34	9.47	-4.31	<b>18.51</b>	30.00
	1732.5	20175	V	8.06	9.53	-4.31	13.28	30.00
			H	11.46	9.53	-4.31	16.69	30.00
	1747.5	20325	V	6.81	9.59	-4.32	12.08	30.00
			H	12.18	9.58	-4.32	17.45	30.00
<b>BAND 4 BW: 15M 16QAM RB: 1,74</b>	1717.5	20025	V	8.14	9.52	-4.31	13.35	30.00
			H	11.5	9.52	-4.31	16.71	30.00
	1732.5	20175	V	7.51	9.57	-4.31	12.77	30.00
			H	12.22	9.57	-4.31	17.48	30.00
	1747.5	20325	V	6.81	9.62	-4.34	12.09	30.00
			H	12.27	9.62	-4.34	<b>17.55</b>	30.00

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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
<b>BAND 4 BW: 20M QPSK RB: 1,0</b>	1720.0	20050	V	9.55	9.48	-4.31	14.72	30.00
			H	13.78	9.47	-4.31	<b>18.95</b>	30.00
	1732.5	20175	V	8.45	9.52	-4.31	13.66	30.00
			H	12.1	9.52	-4.31	17.31	30.00
	1745.0	20300	V	8.06	9.56	-4.31	13.31	30.00
			H	12.65	9.56	-4.31	17.9	30.00
<b>BAND 4 BW: 20M QPSK RB: 1,99</b>	1720.0	20050	V	8.45	9.53	-4.31	13.67	30.00
			H	11.76	9.53	-4.31	16.98	30.00
	1732.5	20175	V	8.05	9.58	-4.31	13.32	30.00
			H	13.03	9.58	-4.31	<b>18.3</b>	30.00
	1745.0	20300	V	7.48	9.62	-4.34	12.76	30.00
			H	12.77	9.62	-4.34	18.06	30.00
<b>BAND 4 BW: 20M 16QAM RB: 1,0</b>	1720.0	20050	V	9.15	9.47	-4.31	14.31	30.00
			H	13.53	9.47	-4.31	<b>18.7</b>	30.00
	1732.5	20175	V	8.17	9.52	-4.31	13.38	30.00
			H	11.75	9.52	-4.31	16.96	30.00
	1745.0	20300	V	7.41	9.56	-4.31	12.67	30.00
			H	12.01	9.57	-4.31	17.27	30.00
<b>BAND 4 BW: 20M 16QAM RB: 1,99</b>	1720.0	20050	V	7.95	9.53	-4.31	13.18	30.00
			H	11.51	9.53	-4.31	16.73	30.00
	1732.5	20175	V	7.42	9.58	-4.31	12.69	30.00
			H	12.42	9.58	-4.31	<b>17.69</b>	30.00
	1745.0	20300	V	6.85	9.62	-4.34	12.13	30.00
			H	12.35	9.62	-4.34	17.64	30.00

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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
<b>BAND 5 BW: 1.4M QPSK RB: 1,0</b>	824.7	20407	V	22.75	3.3	-2.93	23.13	38.45
			H	25.22	3.3	-2.93	<b>25.59</b>	38.45
	836.5	20525	V	22.53	3.29	-2.96	22.87	38.45
			H	24.9	3.29	-2.96	25.23	38.45
	848.3	20643	V	20.48	3.27	-3	20.74	38.45
			H	24.04	3.27	-3	24.3	38.45
<b>BAND 5 BW: 1.4M QPSK RB: 1,5</b>	824.7	20407	V	22.89	3.31	-2.92	23.27	38.45
			H	24.89	3.3	-2.93	<b>25.26</b>	38.45
	836.5	20525	V	22.23	3.29	-2.96	22.56	38.45
			H	24.51	3.29	-2.96	24.84	38.45
	848.3	20643	V	20.62	3.27	-3	20.89	38.45
			H	23.65	3.27	-3	23.92	38.45
<b>BAND 5 BW: 1.4M 16QAM RB: 1,0</b>	824.7	20407	V	22.59	3.3	-2.93	22.97	38.45
			H	24.85	3.3	-2.93	25.23	38.45
	836.5	20525	V	22.24	3.29	-2.96	22.58	38.45
			H	24.97	3.29	-2.96	<b>25.3</b>	38.45
	848.3	20643	V	20.23	3.27	-3	20.5	38.45
			H	23.97	3.27	-3	24.24	38.45
<b>BAND 5 BW: 1.4M 16QAM RB: 1,5</b>	824.7	20407	V	22.76	3.31	-2.92	23.14	38.45
			H	24.54	3.31	-2.92	<b>24.93</b>	38.45
	836.5	20525	V	22	3.29	-2.96	22.33	38.45
			H	24.32	3.29	-2.96	24.65	38.45
	848.3	20643	V	20.04	3.27	-3	20.31	38.45
			H	23.51	3.27	-3	23.79	38.45

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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
<b>BAND 5 BW: 3M QPSK RB: 1,0</b>	825.5	20415	V	23.22	3.3	-2.93	23.59	38.45
			H	25.2	3.3	-2.93	<b>25.58</b>	38.45
	836.5	20525	V	22.69	3.29	-2.95	23.02	38.45
			H	24.95	3.29	-2.95	25.28	38.45
	847.5	20635	V	21.36	3.27	-3	21.63	38.45
			H	24.97	3.28	-2.99	25.25	38.45
<b>BAND 5 BW: 3M QPSK RB: 1,14</b>	825.5	20415	V	23.82	3.3	-2.93	24.19	38.45
			H	25.79	3.3	-2.93	<b>26.17</b>	38.45
	836.5	20525	V	21.91	3.29	-2.96	22.23	38.45
			H	24.18	3.29	-2.96	24.51	38.45
	847.5	20635	V	20.37	3.27	-3	20.64	38.45
			H	23.77	3.27	-3	24.04	38.45
<b>BAND 5 BW: 3M 16QAM RB: 1,0</b>	825.5	20415	V	22.27	3.3	-2.93	22.64	38.45
			H	24.88	3.3	-2.93	25.26	38.45
	836.5	20525	V	22.27	3.29	-2.96	22.6	38.45
			H	25.01	3.29	-2.96	<b>25.34</b>	38.45
	847.5	20635	V	20.9	3.27	-3	21.17	38.45
			H	24.67	3.28	-2.99	24.95	38.45
<b>BAND 5 BW: 3M 16QAM RB: 1,14</b>	825.5	20415	V	22.83	3.3	-2.93	23.21	38.45
			H	24.72	3.3	-2.93	<b>25.09</b>	38.45
	836.5	20525	V	21.77	3.29	-2.96	22.1	38.45
			H	24.06	3.29	-2.96	24.39	38.45
	847.5	20635	V	20.13	3.27	-3	20.4	38.45
			H	23.52	3.27	-3	23.79	38.45

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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
<b>BAND 5 BW: 5M QPSK RB: 1,0</b>	826.5	20425	V	22.57	3.3	-2.93	22.94	38.45
			H	25.11	3.3	-2.93	<b>25.48</b>	38.45
	836.5	20525	V	22.65	3.29	-2.95	22.99	38.45
			H	24.9	3.29	-2.95	25.24	38.45
	846.5	20625	V	21.52	3.28	-2.98	21.81	38.45
			H	25.08	3.28	-2.98	25.37	38.45
<b>BAND 5 BW: 5M QPSK RB: 1,24</b>	826.5	20425	V	23.17	3.3	-2.93	23.54	38.45
			H	25.21	3.3	-2.93	<b>25.58</b>	38.45
	836.5	20525	V	21.57	3.29	-2.97	21.89	38.45
			H	24.07	3.29	-2.97	24.39	38.45
	846.5	20625	V	20.21	3.27	-3	20.48	38.45
			H	23.66	3.27	-3	23.93	38.45
<b>BAND 5 BW: 5M 16QAM RB: 1,0</b>	826.5	20425	V	22.25	3.3	-2.93	22.62	38.45
			H	24.71	3.3	-2.93	<b>25.09</b>	38.45
	836.5	20525	V	22.38	3.29	-2.95	22.73	38.45
			H	24.59	3.29	-2.95	24.93	38.45
	846.5	20625	V	21.1	3.28	-2.98	21.4	38.45
			H	24.67	3.28	-2.99	24.96	38.45
<b>BAND 5 BW: 5M 16QAM RB: 1,24</b>	826.5	20425	V	22.89	3.3	-2.93	23.26	38.45
			H	24.78	3.3	-2.93	<b>25.15</b>	38.45
	836.5	20525	V	21.36	3.29	-2.97	21.68	38.45
			H	23.76	3.29	-2.97	24.08	38.45
	846.5	20625	V	19.93	3.27	-3	20.2	38.45
			H	23.37	3.27	-3	23.64	38.45

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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
<b>BAND 5 BW: 10M QPSK RB: 1,0</b>	829.0	20450	V	22.61	3.3	-2.93	22.98	38.45
			H	25.19	3.3	-2.93	25.56	38.45
	836.5	20525	V	22.85	3.3	-2.94	23.2	38.45
			H	25.37	3.3	-2.95	<b>25.72</b>	38.45
	844.0	20600	V	21.46	3.29	-2.97	21.78	38.45
			H	24.62	3.28	-2.98	24.92	38.45
<b>BAND 5 BW: 10M QPSK RB: 1,49</b>	829.0	20450	V	22.63	3.29	-2.95	22.98	38.45
			H	24.62	3.29	-2.95	<b>24.96</b>	38.45
	836.5	20525	V	21.51	3.28	-2.98	21.81	38.45
			H	24.29	3.28	-2.98	24.59	38.45
	844.0	20600	V	20.17	3.27	-3	20.44	38.45
			H	23.53	3.27	-3	23.81	38.45
<b>BAND 5 BW: 10M 16QAM RB: 1,0</b>	829.0	20450	V	22.21	3.3	-2.93	22.58	38.45
			H	24.68	3.3	-2.93	<b>25.05</b>	38.45
	836.5	20525	V	22.53	3.3	-2.94	22.88	38.45
			H	24.7	3.3	-2.94	<b>25.05</b>	38.45
	844.0	20600	V	21.09	3.28	-2.98	21.39	38.45
			H	24.23	3.28	-2.98	24.53	38.45
<b>BAND 5 BW: 10M 16QAM RB: 1,49</b>	829.0	20450	V	22.4	3.29	-2.95	22.74	38.45
			H	24.37	3.29	-2.95	<b>24.72</b>	38.45
	836.5	20525	V	21.11	3.28	-2.98	21.41	38.45
			H	23.97	3.28	-2.98	24.27	38.45
	844.0	20600	V	20.01	3.27	-3	20.28	38.45
			H	23.38	3.27	-3	23.65	38.45

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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
<b>BAND 7 BW: 5M QPSK RB: 1,0</b>	2502.5	20775	V	14.16	10.9	-5.25	19.81	33.01
			H	10.99	10.9	-5.25	16.64	33.01
	2535.0	21100	V	15.43	10.94	-5.3	<b>21.07</b>	33.01
			H	10.53	10.94	-5.3	16.17	33.01
	2567.5	21425	V	14.63	10.98	-5.34	20.27	33.01
			H	8.1	10.98	-5.34	13.74	33.01
<b>BAND 7 BW: 5M QPSK RB: 1,24</b>	2502.5	20775	V	14.03	10.9	-5.26	19.68	33.01
			H	11.08	10.9	-5.26	16.73	33.01
	2535.0	21100	V	15.55	10.95	-5.31	<b>21.19</b>	33.01
			H	11.14	10.95	-5.31	16.78	33.01
	2567.5	21425	V	14.11	10.99	-5.34	19.75	33.01
			H	7.9	10.99	-5.34	13.54	33.01
<b>BAND 7 BW: 5M 16QAM RB: 1,0</b>	2502.5	20775	V	13.63	10.9	-5.26	19.28	33.01
			H	10.65	10.9	-5.26	16.3	33.01
	2535.0	21100	V	14.93	10.94	-5.3	20.57	33.01
			H	10.23	10.94	-5.3	15.88	33.01
	2567.5	21425	V	14.97	10.98	-5.34	<b>20.61</b>	33.01
			H	8.61	10.98	-5.34	14.26	33.01
<b>BAND 7 BW: 5M 16QAM RB: 1,24</b>	2502.5	20775	V	13.96	10.9	-5.26	19.6	33.01
			H	11.2	10.9	-5.26	16.85	33.01
	2535.0	21100	V	15	10.95	-5.31	<b>20.64</b>	33.01
			H	10.6	10.95	-5.31	16.23	33.01
	2567.5	21425	V	14.59	10.99	-5.34	20.24	33.01
			H	8.39	10.99	-5.34	14.04	33.01

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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
<b>BAND 7 BW: 10M QPSK RB: 1,0</b>	2505.0	20800	V	14.06	10.9	-5.26	19.71	33.01
			H	10.87	10.9	-5.26	16.52	33.01
	2535.0	21100	V	14.96	10.94	-5.3	<b>20.6</b>	33.01
			H	10.16	10.94	-5.29	15.8	33.01
	2565.0	21400	V	13.62	10.98	-5.34	19.26	33.01
			H	8.42	10.98	-5.34	14.05	33.01
<b>BAND 7 BW: 10M QPSK RB: 1,49</b>	2505.0	20800	V	13.95	10.91	-5.26	19.6	33.01
			H	10.93	10.91	-5.26	16.58	33.01
	2535.0	21100	V	15.52	10.95	-5.31	<b>21.16</b>	33.01
			H	11.04	10.95	-5.31	16.68	33.01
	2565.0	21400	V	13.91	10.99	-5.34	19.56	33.01
			H	7.75	10.99	-5.34	13.39	33.01
<b>BAND 7 BW: 10M 16QAM RB: 1,0</b>	2505.0	20800	V	13.53	10.9	-5.25	19.18	33.01
			H	10.47	10.9	-5.26	16.12	33.01
	2535.0	21100	V	14.52	10.94	-5.29	<b>20.16</b>	33.01
			H	9.78	10.94	-5.29	15.42	33.01
	2565.0	21400	V	13.89	10.98	-5.34	19.53	33.01
			H	8.29	10.98	-5.34	13.93	33.01
<b>BAND 7 BW: 10M 16QAM RB: 1,49</b>	2505.0	20800	V	13.37	10.91	-5.26	19.02	33.01
			H	10.54	10.91	-5.26	16.19	33.01
	2535.0	21100	V	14.99	10.95	-5.31	<b>20.63</b>	33.01
			H	10.5	10.95	-5.31	16.14	33.01
	2565.0	21400	V	14.55	10.99	-5.34	20.2	33.01
			H	8.25	10.99	-5.34	13.9	33.01

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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
<b>BAND 7 BW: 15M QPSK RB: 1,0</b>	2507.5	20825	V	14	10.9	-5.25	19.65	33.01
			H	10.73	10.9	-5.25	16.37	33.01
	2535.0	21100	V	14.32	10.94	-5.29	19.97	33.01
			H	9.71	10.94	-5.29	15.35	33.01
	2562.5	21375	V	14.38	10.97	-5.34	<b>20.01</b>	33.01
			H	9.05	10.97	-5.34	14.68	33.01
<b>BAND 7 BW: 15M QPSK RB: 1,74</b>	2507.5	20825	V	14	10.92	-5.27	19.65	33.01
			H	10.62	10.92	-5.27	16.27	33.01
	2535.0	21100	V	16.02	10.95	-5.32	<b>21.66</b>	33.01
			H	11.15	10.95	-5.32	16.78	33.01
	2562.5	21375	V	13.89	10.99	-5.34	19.54	33.01
			H	7.64	10.99	-5.34	13.29	33.01
<b>BAND 7 BW: 15M 16QAM RB: 1,0</b>	2507.5	20825	V	13.49	10.9	-5.26	19.14	33.01
			H	10.34	10.9	-5.26	15.99	33.01
	2535.0	21100	V	13.82	10.94	-5.29	19.46	33.01
			H	9.31	10.93	-5.29	14.96	33.01
	2562.5	21375	V	14.36	10.97	-5.34	<b>19.99</b>	33.01
			H	9.14	10.97	-5.34	14.77	33.01
<b>BAND 7 BW: 15M 16QAM RB: 1,74</b>	2507.5	20825	V	13.35	10.92	-5.27	19	33.01
			H	10.17	10.92	-5.27	15.82	33.01
	2535.0	21100	V	15.22	10.95	-5.32	<b>20.86</b>	33.01
			H	10.54	10.95	-5.32	16.17	33.01
	2562.5	21375	V	14.4	10.99	-5.34	20.04	33.01
			H	8.19	10.99	-5.34	13.83	33.01

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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
<b>BAND 7 BW: 20M QPSK RB: 1,0</b>	2510.0	20850	V	13.8	10.9	-5.25	19.45	33.01
			H	10.61	10.9	-5.25	16.26	33.01
	2535.0	21100	V	13.83	10.93	-5.29	19.48	33.01
			H	9.41	10.93	-5.29	15.06	33.01
	2560.0	21350	V	15.47	10.97	-5.33	<b>21.1</b>	33.01
			H	9.78	10.96	-5.33	15.41	33.01
<b>BAND 7 BW: 20M QPSK RB: 1,99</b>	2510.0	20850	V	13.79	10.92	-5.27	19.44	33.01
			H	9.89	10.92	-5.27	15.54	33.01
	2535.0	21100	V	15.87	10.96	-5.32	<b>21.5</b>	33.01
			H	10.65	10.96	-5.32	16.29	33.01
	2560.0	21350	V	14.25	10.99	-5.34	19.9	33.01
			H	7.94	10.99	-5.34	13.58	33.01
<b>BAND 7 BW: 20M 16QAM RB: 1,0</b>	2510.0	20850	V	13.37	10.9	-5.25	19.01	33.01
			H	10.12	10.9	-5.25	15.76	33.01
	2535.0	21100	V	13.2	10.93	-5.29	18.85	33.01
			H	8.81	10.93	-5.29	14.46	33.01
	2560.0	21350	V	15.52	10.96	-5.33	<b>21.15</b>	33.01
			H	9.73	10.96	-5.33	15.36	33.01
<b>BAND 7 BW: 20M 16QAM RB: 1,99</b>	2510.0	20850	V	13.38	10.92	-5.27	19.03	33.01
			H	9.43	10.92	-5.27	15.08	33.01
	2535.0	21100	V	15.37	10.96	-5.32	<b>21.01</b>	33.01
			H	10.15	10.96	-5.32	15.78	33.01
	2560.0	21350	V	14.34	10.99	-5.34	19.99	33.01
			H	8.03	10.99	-5.34	13.68	33.01

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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
<b>BAND 12 BW: 1.4M QPSK RB: 1,0</b>	699.7	23017	V	20	3.08	-2.96	20.12	34.77
			H	24.34	3.08	-2.96	<b>24.47</b>	34.77
	707.5	23095	V	18.77	3.09	-3.04	18.83	34.77
			H	23.66	3.09	-3.04	23.72	34.77
	715.3	23173	V	18.03	3.11	-3.06	18.08	34.77
			H	24.25	3.11	-3.06	24.29	34.77
<b>BAND 12 BW: 1.4M QPSK RB: 1,5</b>	699.7	23017	V	20.51	3.08	-2.96	20.63	34.77
			H	24.74	3.08	-2.96	<b>24.87</b>	34.77
	707.5	23095	V	18.02	3.1	-3.04	18.07	34.77
			H	23.14	3.1	-3.04	23.19	34.77
	715.3	23173	V	17.92	3.11	-3.06	17.97	34.77
			H	23.96	3.11	-3.06	24.01	34.77
<b>BAND 12 BW: 1.4M 16QAM RB: 1,0</b>	699.7	23017	V	19.69	3.08	-2.96	19.81	34.77
			H	24.09	3.08	-2.96	<b>24.21</b>	34.77
	707.5	23095	V	18.25	3.09	-3.04	18.31	34.77
			H	23.44	3.09	-3.04	23.49	34.77
	715.3	23173	V	17.93	3.11	-3.06	17.98	34.77
			H	23.88	3.11	-3.06	23.93	34.77
<b>BAND 12 BW: 1.4M 16QAM RB: 1,5</b>	699.7	23017	V	20	3.08	-2.96	20.13	34.77
			H	24.1	3.08	-2.96	<b>24.22</b>	34.77
	707.5	23095	V	18.21	3.09	-3.04	18.26	34.77
			H	22.98	3.1	-3.04	23.04	34.77
	715.3	23173	V	17.54	3.11	-3.06	17.59	34.77
			H	23.69	3.11	-3.06	23.74	34.77

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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
<b>BAND 12 BW: 3M QPSK RB: 1,0</b>	700.5	23025	V	20.01	3.08	-2.96	20.14	34.77
			H	24.32	3.08	-2.96	<b>24.44</b>	34.77
	707.5	23095	V	19.05	3.09	-3.04	19.11	34.77
			H	24	3.09	-3.04	24.06	34.77
	714.5	23165	V	18.21	3.11	-3.06	18.26	34.77
			H	23.97	3.11	-3.07	24.01	34.77
<b>BAND 12 BW: 3M QPSK RB: 1,14</b>	700.5	23025	V	20.6	3.08	-2.98	20.71	34.77
			H	25.07	3.08	-2.99	<b>25.17</b>	34.77
	707.5	23095	V	17.86	3.1	-3.04	17.92	34.77
			H	23.14	3.1	-3.04	23.19	34.77
	714.5	23165	V	17.91	3.11	-3.06	17.96	34.77
			H	23.96	3.11	-3.06	24.01	34.77
<b>BAND 12 BW: 3M 16QAM RB: 1,0</b>	700.5	23025	V	19.74	3.08	-2.96	19.86	34.77
			H	24.02	3.08	-2.96	<b>24.15</b>	34.77
	707.5	23095	V	18.98	3.09	-3.04	19.04	34.77
			H	23.99	3.09	-3.04	24.05	34.77
	714.5	23165	V	17.68	3.11	-3.06	17.73	34.77
			H	23.69	3.11	-3.07	23.73	34.77
<b>BAND 12 BW: 3M 16QAM RB: 1,14</b>	700.5	23025	V	19.77	3.08	-2.98	19.87	34.77
			H	24.49	3.08	-2.98	<b>24.59</b>	34.77
	707.5	23095	V	17.62	3.1	-3.04	17.68	34.77
			H	22.87	3.1	-3.04	22.93	34.77
	714.5	23165	V	17.82	3.11	-3.06	17.86	34.77
			H	23.92	3.11	-3.06	23.97	34.77

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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
<b>BAND 12 BW: 5M QPSK RB: 1,0</b>	701.5	23035	V	19.73	3.08	-2.96	19.85	34.77
			H	24	3.08	-2.96	24.13	34.77
	707.5	23095	V	19.54	3.09	-3.03	19.6	34.77
			H	24.35	3.09	-3.03	<b>24.4</b>	34.77
	713.5	23155	V	17.97	3.1	-3.05	18.02	34.77
			H	23.56	3.11	-3.06	23.61	34.77
<b>BAND 12 BW: 5M QPSK RB: 1,24</b>	701.5	23035	V	20.27	3.09	-3.02	20.34	34.77
			H	24.68	3.09	-3.02	<b>24.75</b>	34.77
	707.5	23095	V	17.76	3.1	-3.05	17.81	34.77
			H	23.02	3.1	-3.05	23.07	34.77
	713.5	23155	V	17.98	3.11	-3.06	18.03	34.77
			H	23.97	3.11	-3.06	24.02	34.77
<b>BAND 12 BW: 5M 16QAM RB: 1,0</b>	701.5	23035	V	19.69	3.08	-2.96	19.81	34.77
			H	24	3.08	-2.96	<b>24.12</b>	34.77
	707.5	23095	V	19.18	3.09	-3.03	19.24	34.77
			H	24.05	3.09	-3.03	24.1	34.77
	713.5	23155	V	17.52	3.1	-3.05	17.57	34.77
			H	22.83	3.11	-3.06	22.88	34.77
<b>BAND 12 BW: 5M 16QAM RB: 1,24</b>	701.5	23035	V	19.91	3.09	-3.01	19.98	34.77
			H	24.27	3.09	-3.02	<b>24.34</b>	34.77
	707.5	23095	V	17.67	3.1	-3.05	17.73	34.77
			H	22.8	3.1	-3.04	22.85	34.77
	713.5	23155	V	17.66	3.11	-3.06	17.71	34.77
			H	23.69	3.11	-3.06	23.73	34.77

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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
<b>BAND 12 BW: 10M QPSK RB: 1,0</b>	704.0	23060	V	19.78	3.08	-2.96	19.9	34.77
			H	23.96	3.08	-2.96	24.08	34.77
	707.5	23095	V	20.24	3.09	-3.01	20.32	34.77
			H	24.72	3.09	-3.01	<b>24.8</b>	34.77
	711.0	23130	V	18.78	3.09	-3.04	18.83	34.77
			H	23.69	3.09	-3.04	23.74	34.77
<b>BAND 12 BW: 10M QPSK RB: 1,49</b>	704.0	23060	V	18.03	3.1	-3.04	18.09	34.77
			H	23.09	3.1	-3.04	23.14	34.77
	707.5	23095	V	17.82	3.1	-3.05	17.87	34.77
			H	23.94	3.11	-3.06	23.99	34.77
	711.0	23130	V	18.14	3.11	-3.06	18.19	34.77
			H	24.09	3.11	-3.06	<b>24.13</b>	34.77
<b>BAND 12 BW: 10M 16QAM RB: 1,0</b>	704.0	23060	V	19.83	3.08	-2.96	19.95	34.77
			H	24.05	3.08	-2.96	24.18	34.77
	707.5	23095	V	19.78	3.09	-3	19.86	34.77
			H	24.27	3.09	-3.01	<b>24.35</b>	34.77
	711.0	23130	V	18.4	3.09	-3.04	18.46	34.77
			H	23.39	3.09	-3.04	23.44	34.77
<b>BAND 12 BW: 10M 16QAM RB: 1,49</b>	704.0	23060	V	17.67	3.1	-3.04	17.73	34.77
			H	22.77	3.1	-3.04	22.83	34.77
	707.5	23095	V	17.54	3.1	-3.05	17.59	34.77
			H	22.99	3.1	-3.05	23.04	34.77
	711.0	23130	V	17.68	3.11	-3.06	17.73	34.77
			H	23.6	3.11	-3.06	<b>23.65</b>	34.77

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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
<b>BAND 17 BW: 5M QPSK RB: 1,0</b>	706.5	23755	V	19.63	3.09	-3.03	19.69	34.77
			H	23.7	3.09	-3.04	<b>23.76</b>	34.77
	710.0	23790	V	18.64	3.09	-3.04	18.7	34.77
			H	22.52	3.09	-3.04	22.57	34.77
	713.5	23825	V	18.72	3.1	-3.05	18.77	34.77
			H	23.12	3.11	-3.06	23.16	34.77
<b>BAND 17 BW: 5M QPSK RB: 1,24</b>	706.5	23755	V	18.52	3.1	-3.04	18.58	34.77
			H	22.48	3.1	-3.04	22.53	34.77
	710.0	23790	V	18.95	3.1	-3.05	19	34.77
			H	23.53	3.1	-3.05	23.58	34.77
	713.5	23825	V	18.51	3.11	-3.06	18.56	34.77
			H	23.71	3.11	-3.06	<b>23.76</b>	34.77
<b>BAND 17 BW: 5M 16QAM RB: 1,0</b>	706.5	23755	V	19.31	3.09	-3.03	19.37	34.77
			H	22.58	3.09	-3.04	<b>22.64</b>	34.77
	710.0	23790	V	18.25	3.09	-3.04	18.3	34.77
			H	22.18	3.09	-3.04	22.23	34.77
	713.5	23825	V	18.1	3.1	-3.05	18.15	34.77
			H	22.49	3.11	-3.06	22.54	34.77
<b>BAND 17 BW: 5M 16QAM RB: 1,24</b>	706.5	23755	V	18.22	3.1	-3.04	18.27	34.77
			H	22.22	3.1	-3.04	22.28	34.77
	710.0	23790	V	18.37	3.1	-3.05	18.42	34.77
			H	22.97	3.1	-3.05	23.02	34.77
	713.5	23825	V	18.28	3.11	-3.06	18.32	34.77
			H	23.49	3.11	-3.06	<b>23.53</b>	34.77

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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
<b>BAND 17 BW: 10M QPSK RB: 1,0</b>	709.0	23780	V	19.83	3.09	-3.03	19.89	34.77
			H	22.92	3.09	-3.03	22.98	34.77
	710.0	23790	V	19.73	3.09	-3.03	19.79	34.77
			H	23.01	3.09	-3.03	<b>23.06</b>	34.77
	711.0	23800	V	19.17	3.09	-3.04	19.23	34.77
			H	22.61	3.09	-3.04	22.66	34.77
<b>BAND 17 BW: 10M QPSK RB: 1,49</b>	709.0	23780	V	19.1	3.11	-3.06	19.14	34.77
			H	23.75	3.11	-3.06	23.8	34.77
	710.0	23790	V	18.99	3.11	-3.06	19.03	34.77
			H	23.97	3.11	-3.07	24.01	34.77
	711.0	23800	V	19.11	3.11	-3.06	19.16	34.77
			H	24.35	3.11	-3.06	<b>24.4</b>	34.77
<b>BAND 17 BW: 10M 16QAM RB: 1,0</b>	709.0	23780	V	19.29	3.09	-3.03	19.35	34.77
			H	22.38	3.09	-3.03	22.44	34.77
	710.0	23790	V	19.19	3.09	-3.03	19.24	34.77
			H	22.55	3.09	-3.03	<b>22.61</b>	34.77
	711.0	23800	V	18.75	3.09	-3.04	18.81	34.77
			H	22.35	3.09	-3.04	22.41	34.77
<b>BAND 17 BW: 10M 16QAM RB: 1,49</b>	709.0	23780	V	18.27	3.11	-3.06	18.32	34.77
			H	23.08	3.11	-3.07	23.12	34.77
	710.0	23790	V	18.21	3.11	-3.06	18.25	34.77
			H	23.21	3.11	-3.07	23.25	34.77
	711.0	23800	V	18.14	3.11	-3.06	18.19	34.77
			H	23.33	3.11	-3.06	<b>23.38</b>	34.77

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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
<b>BAND 26 BW: 1.4M QPSK RB: 1,0</b>	824.7	26797	V	14.96	3.31	-2.92	15.35	38.50
			H	17.16	3.31	-2.92	<b>17.55</b>	38.50
	836.5	26915	V	12.15	3.29	-2.96	12.49	38.50
			H	15.4	3.29	-2.96	15.73	38.50
	848.3	27033	V	9.45	3.27	-3	9.72	38.50
			H	13.53	3.27	-3	13.81	38.50
<b>BAND 26 BW: 1.4M QPSK RB: 1,5</b>	824.7	26797	V	14.74	3.31	-2.92	15.13	38.50
			H	17.02	3.31	-2.92	<b>17.4</b>	38.50
	836.5	26915	V	11.57	3.29	-2.96	11.9	38.50
			H	15.1	3.29	-2.96	15.43	38.50
	848.3	27033	V	9	3.27	-3	9.27	38.50
			H	13.26	3.27	-3	13.53	38.50
<b>BAND 26 BW: 1.4M 16QAM RB: 1,0</b>	824.7	26797	V	15.07	3.31	-2.92	15.46	38.50
			H	17.22	3.31	-2.92	<b>17.58</b>	38.50
	836.5	26915	V	11.62	3.29	-2.96	11.95	38.50
			H	15.04	3.29	-2.96	15.37	38.50
	848.3	27033	V	8.95	3.27	-3	9.22	38.50
			H	13.06	3.27	-3	13.33	38.50
<b>BAND 26 BW: 1.4M 16QAM RB: 1,5</b>	824.7	26797	V	14.88	3.31	-2.92	15.26	38.50
			H	17.14	3.31	-2.92	<b>17.53</b>	38.50
	836.5	26915	V	11.56	3.29	-2.97	11.88	38.50
			H	15.46	3.29	-2.96	15.79	38.50
	848.3	27033	V	8.94	3.27	-3	9.21	38.50
			H	13.14	3.27	-3	13.41	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	dBd	dB	dBm	dBm
<b>BAND 26 BW: 3M QPSK RB: 1,0</b>	825.5	26805	V	15.07	3.31	-2.92	15.45	38.50
			H	17.22	3.31	-2.92	<b>17.61</b>	38.50
	836.5	26915	V	12.46	3.29	-2.95	12.79	38.50
			H	15.87	3.29	-2.96	16.21	38.50
	847.5	27025	V	9.69	3.27	-3	9.96	38.50
			H	14.23	3.28	-2.99	14.52	38.50
<b>BAND 26 BW: 3M QPSK RB: 1,14</b>	825.5	26805	V	14.78	3.3	-2.93	15.16	38.50
			H	17.04	3.3	-2.93	<b>17.41</b>	38.50
	836.5	26915	V	11.39	3.29	-2.96	11.72	38.50
			H	14.97	3.29	-2.96	15.29	38.50
	847.5	27025	V	9.1	3.27	-3	9.37	38.50
			H	13.68	3.27	-3	13.95	38.50
<b>BAND 26 BW: 3M 16QAM RB: 1,0</b>	825.5	26805	V	14.8	3.3	-2.93	15.17	38.50
			H	16.95	3.31	-2.92	<b>17.34</b>	38.50
	836.5	26915	V	11.96	3.29	-2.96	12.29	38.50
			H	15.27	3.29	-2.96	15.61	38.50
	847.5	27025	V	9.78	3.27	-3	10.05	38.50
			H	14.31	3.28	-2.99	14.59	38.50
<b>BAND 26 BW: 3M 16QAM RB: 1,14</b>	825.5	26805	V	14.83	3.3	-2.93	15.2	38.50
			H	17.06	3.3	-2.93	<b>17.43</b>	38.50
	836.5	26915	V	11.16	3.29	-2.96	11.49	38.50
			H	14.84	3.29	-2.96	15.16	38.50
	847.5	27025	V	8.8	3.27	-3	9.08	38.50
			H	13.31	3.27	-3	13.58	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	dBd	dB	dBm	dBm
<b>BAND 26 BW: 5M QPSK RB: 1,0</b>	826.5	26815	V	15.31	3.31	-2.92	15.69	38.50
			H	16.98	3.31	-2.92	<b>17.37</b>	38.50
	836.5	26915	V	12.98	3.29	-2.95	13.32	38.50
			H	5.88	3.29	-2.95	6.22	38.50
	846.5	27015	V	10.11	3.28	-2.98	10.4	38.50
			H	14.61	3.28	-2.98	14.9	38.50
<b>BAND 26 BW: 5M QPSK RB: 1,24</b>	826.5	26815	V	15.26	3.3	-2.93	15.63	38.50
			H	16.87	3.3	-2.93	<b>17.24</b>	38.50
	836.5	26915	V	11.38	3.29	-2.97	11.7	38.50
			H	14.76	3.29	-2.97	15.08	38.50
	846.5	27015	V	8.93	3.27	-3	9.21	38.50
			H	13.43	3.27	-3	13.7	38.50
<b>BAND 26 BW: 5M 16QAM RB: 1,0</b>	826.5	26815	V	14.74	3.31	-2.92	15.13	38.50
			H	16.73	3.31	-2.92	<b>17.12</b>	38.50
	836.5	26915	V	12.47	3.29	-2.95	12.81	38.50
			H	15.61	3.29	-2.95	15.95	38.50
	846.5	27015	V	9.89	3.28	-2.98	10.18	38.50
			H	14.29	3.28	-2.98	14.58	38.50
<b>BAND 26 BW: 5M 16QAM RB: 1,24</b>	826.5	26815	V	14.52	3.3	-2.93	14.89	38.50
			H	16.58	3.3	-2.93	<b>16.95</b>	38.50
	836.5	26915	V	11.02	3.29	-2.97	11.35	38.50
			H	14.48	3.29	-2.97	14.81	38.50
	846.5	27015	V	8.64	3.27	-3	8.91	38.50
			H	13.28	3.27	-3	13.55	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	dBd	dB	dBm	dBm
<b>BAND 26 BW: 10M QPSK RB: 1,0</b>	829.0	26840	V	14.95	3.31	-2.92	15.34	38.50
			H	17.02	3.31	-2.92	<b>17.41</b>	38.50
	836.5	26915	V	13.32	3.3	-2.94	13.67	38.50
			H	15.9	3.3	-2.94	16.26	38.50
	844.0	26990	V	10.69	3.29	-2.97	11.01	38.50
			H	14.72	3.28	-2.98	15.02	38.50
<b>BAND 26 BW: 10M QPSK RB: 1,49</b>	829.0	26840	V	12.96	3.29	-2.95	13.3	38.50
			H	15.96	3.29	-2.95	<b>16.3</b>	38.50
	836.5	26915	V	10.49	3.28	-2.98	10.78	38.50
			H	14.68	3.28	-2.98	14.97	38.50
	844.0	26990	V	8.8	3.27	-3	9.06	38.50
			H	13.29	3.27	-3	13.56	38.50
<b>BAND 26 BW: 10M 16QAM RB: 1,0</b>	829.0	26840	V	14.59	3.31	-2.92	14.97	38.50
			H	16.67	3.3	-2.93	<b>17.04</b>	38.50
	836.5	26915	V	13.04	3.3	-2.94	13.39	38.50
			H	15.79	3.3	-2.95	16.14	38.50
	844.0	26990	V	10.32	3.29	-2.97	10.64	38.50
			H	14.41	3.28	-2.98	14.71	38.50
<b>BAND 26 BW: 10M 16QAM RB: 1,49</b>	829.0	26840	V	12.64	3.29	-2.95	12.99	38.50
			H	15.51	3.29	-2.95	<b>15.85</b>	38.50
	836.5	26915	V	10.13	3.28	-2.98	10.43	38.50
			H	14.37	3.28	-2.98	14.66	38.50
	844.0	26990	V	8.69	3.27	-3	8.96	38.50
			H	13.15	3.27	-3	13.43	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	dBd	dB	dBm	dBm
<b>BAND 26 BW: 15M QPSK RB: 1,0</b>	831.5	26865	V	14.81	3.31	-2.92	15.2	38.50
			H	17.01	3.31	-2.92	<b>17.4</b>	38.50
	836.5	26915	V	14.17	3.29	-2.95	14.51	38.50
			H	16.47	3.3	-2.94	16.84	38.50
	841.5	26965	V	13.02	3.29	-2.95	13.37	38.50
			H	15.77	3.29	-2.95	16.11	38.50
<b>BAND 26 BW: 15M QPSK RB: 1,74</b>	831.5	26865	V	11.34	3.29	-2.96	11.66	38.50
			H	14.82	3.29	-2.96	<b>15.14</b>	38.50
	836.5	26915	V	10.29	3.28	-2.98	10.59	38.50
			H	14.55	3.28	-2.98	14.85	38.50
	841.5	26965	V	9.05	3.27	-3	9.32	38.50
			H	13.52	3.27	-3	13.79	38.50
<b>BAND 26 BW: 15M 16QAM RB: 1,0</b>	831.5	26865	V	14.5	3.31	-2.92	14.88	38.50
			H	16.62	3.3	-2.93	<b>16.99</b>	38.50
	836.5	26915	V	13.93	3.3	-2.94	14.29	38.50
			H	16.25	3.3	-2.94	16.61	38.50
	841.5	26965	V	12.47	3.29	-2.96	12.8	38.50
			H	15.52	3.29	-2.95	15.86	38.50
<b>BAND 26 BW: 15M 16QAM RB: 1,74</b>	831.5	26865	V	10.9	3.29	-2.96	11.22	38.50
			H	14.55	3.29	-2.96	<b>14.87</b>	38.50
	836.5	26915	V	10.03	3.28	-2.98	10.33	38.50
			H	14.29	3.28	-2.98	14.59	38.50
	841.5	26965	V	9	3.27	-3	9.26	38.50
			H	13.47	3.27	-3	13.74	38.50

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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
<b>BAND 41 BW: 5M QPSK RB: 1,0</b>	2498.5	39675	V	15.57	10.9	-5.25	21.22	33.01
			H	13.19	10.9	-5.25	18.83	33.01
	2593.0	40620	V	16.69	11.02	-5.34	<b>22.36</b>	33.01
			H	10.81	11.02	-5.34	16.49	33.01
	2687.5	41565	V	12.78	11.13	-5.49	18.43	33.01
			H	5.93	11.13	-5.49	11.58	33.01
<b>BAND 41 BW: 5M QPSK RB: 1,24</b>	2498.5	39675	V	15.58	10.9	-5.25	21.22	33.01
			H	13.53	10.9	-5.26	19.18	33.01
	2593.0	40620	V	16.57	11.02	-5.34	<b>22.25</b>	33.01
			H	10.59	11.02	-5.34	16.26	33.01
	2687.5	41565	V	12.66	11.14	-5.5	18.3	33.01
			H	6.51	11.14	-5.5	12.15	33.01
<b>BAND 41 BW: 5M 16QAM RB: 1,0</b>	2498.5	39675	V	14.94	10.9	-5.25	20.58	33.01
			H	12.09	10.9	-5.25	17.73	33.01
	2593.0	40620	V	16.36	11.02	-5.34	<b>22.04</b>	33.01
			H	10.43	11.02	-5.34	16.11	33.01
	2687.5	41565	V	11.59	11.14	-5.49	17.23	33.01
			H	4.58	11.14	-5.49	10.23	33.01
<b>BAND 41 BW: 5M 16QAM RB: 1,24</b>	2498.5	39675	V	15.19	10.9	-5.25	20.83	33.01
			H	12.23	10.9	-5.25	17.87	33.01
	2593.0	40620	V	16.32	11.02	-5.34	<b>21.99</b>	33.01
			H	10.24	11.02	-5.34	15.92	33.01
	2687.5	41565	V	11.32	11.14	-5.5	16.96	33.01
			H	5.19	11.14	-5.5	10.83	33.01

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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
<b>BAND 41 BW: 10M QPSK RB: 1,0</b>	2501.0	39700	V	16.49	10.9	-5.25	22.14	33.01
			H	13.25	10.9	-5.25	18.9	33.01
	2593.0	40620	V	16.8	11.01	-5.34	<b>22.47</b>	33.01
			H	9.5	11.01	-5.34	15.18	33.01
	2685.0	41540	V	12.82	11.13	-5.48	18.47	33.01
			H	5.09	11.13	-5.48	10.74	33.01
<b>BAND 41 BW: 10M QPSK RB: 1,49</b>	2501.0	39700	V	15.92	10.91	-5.26	21.57	33.01
			H	12.83	10.91	-5.26	18.48	33.01
	2593.0	40620	V	16.14	11.02	-5.35	<b>21.82</b>	33.01
			H	8.2	11.02	-5.35	13.88	33.01
	2685.0	41540	V	12.27	11.14	-5.5	17.92	33.01
			H	6.42	11.14	-5.5	12.06	33.01
<b>BAND 41 BW: 10M 16QAM RB: 1,0</b>	2501.0	39700	V	15.25	10.9	-5.25	20.9	33.01
			H	11.78	10.9	-5.25	17.43	33.01
	2593.0	40620	V	16.47	11.01	-5.34	<b>22.15</b>	33.01
			H	9.1	11.01	-5.34	14.77	33.01
	2685.0	41540	V	11.2	11.13	-5.48	16.85	33.01
			H	3.56	11.13	-5.48	9.21	33.01
<b>BAND 41 BW: 10M 16QAM RB: 1,49</b>	2501.0	39700	V	14.89	10.91	-5.26	20.53	33.01
			H	11.77	10.91	-5.26	17.42	33.01
	2593.0	40620	V	15.78	11.02	-5.35	<b>21.46</b>	33.01
			H	7.83	11.02	-5.35	13.51	33.01
	2685.0	41540	V	10.92	11.14	-5.5	16.56	33.01
			H	5.06	11.14	-5.5	10.7	33.01

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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
<b>BAND 41 BW: 15M QPSK RB: 1,0</b>	2503.5	39725	V	15.3	10.9	-5.25	20.95	33.01
			H	12.06	10.9	-5.25	17.71	33.01
	2593.0	40620	V	16.02	11.01	-5.34	<b>21.69</b>	33.01
			H	12.69	11.01	-5.34	18.36	33.01
	2682.5	41515	V	15.43	11.13	-5.48	21.08	33.01
			H	11.72	11.13	-5.48	17.37	33.01
<b>BAND 41 BW: 15M QPSK RB: 1,74</b>	2503.5	39725	V	15.6	10.9	-5.25	21.25	33.01
			H	12.2	10.9	-5.25	17.85	33.01
	2593.0	40620	V	16.04	11.01	-5.34	<b>21.71</b>	33.01
			H	12.79	11.01	-5.34	18.46	33.01
	2682.5	41515	V	15.54	11.13	-5.48	21.19	33.01
			H	12.45	11.13	-5.48	18.1	33.01
<b>BAND 41 BW: 15M QPSK RB: 1,0</b>	2503.5	39725	V	14.81	10.9	-5.25	20.46	33.01
			H	11.1	10.9	-5.25	16.75	33.01
	2593.0	40620	V	15.64	11.01	-5.34	<b>21.31</b>	33.01
			H	12.31	11.01	-5.34	17.98	33.01
	2682.5	41515	V	14.59	11.13	-5.48	20.24	33.01
			H	11.54	11.13	-5.48	17.19	33.01
<b>BAND 41 BW: 15M QPSK RB: 1,74</b>	2503.5	39725	V	14.95	10.9	-5.25	20.6	33.01
			H	11.59	10.9	-5.25	17.24	33.01
	2593.0	40620	V	15.51	11.01	-5.34	<b>21.18</b>	33.01
			H	12.37	11.01	-5.34	18.04	33.01
	2682.5	41515	V	14.38	11.13	-5.48	20.03	33.01
			H	11.42	11.13	-5.48	17.07	33.01

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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
<b>BAND 41 BW: 20M QPSK RB: 1,0</b>	2506.0	39750	V	16.68	10.9	-5.25	22.33	33.01
			H	10.81	10.9	-5.25	16.46	33.01
	2593.0	40620	V	17.04	11.01	-5.34	<b>22.71</b>	33.01
			H	11.83	11.01	-5.34	17.5	33.01
	2680.0	41490	V	15.9	11.13	-5.48	21.55	33.01
			H	10.64	11.13	-5.48	16.29	33.01
<b>BAND 41 BW: 20M QPSK RB: 1,99</b>	2506.0	39750	V	14.77	10.9	-5.25	20.42	33.01
			H	9.31	10.9	-5.25	14.96	33.01
	2593.0	40620	V	15.58	11.01	-5.34	<b>21.25</b>	33.01
			H	9.73	11.01	-5.34	15.4	33.01
	2680.0	41490	V	14.29	11.13	-5.48	19.94	33.01
			H	9.31	11.13	-5.48	14.96	33.01
<b>BAND 41 BW: 20M QPSK RB: 1,0</b>	2506.0	39750	V	15.48	10.9	-5.25	21.13	33.01
			H	10.86	10.9	-5.25	16.51	33.01
	2593.0	40620	V	16.59	11.01	-5.34	<b>22.26</b>	33.01
			H	11.31	11.01	-5.34	16.98	33.01
	2680.0	41490	V	15.59	11.13	-5.48	21.24	33.01
			H	10.4	11.13	-5.48	16.05	33.01
<b>BAND 41 BW: 20M QPSK RB: 1,99</b>	2506.0	39750	V	14.42	10.9	-5.25	20.07	33.01
			H	8.53	10.9	-5.25	14.18	33.01
	2593.0	40620	V	15.03	11.01	-5.34	<b>20.7</b>	33.01
			H	9.26	11.01	-5.34	14.93	33.01
	2680.0	41490	V	14.6	11.13	-5.48	20.25	33.01
			H	8.37	11.13	-5.48	14.02	33.01

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# LTE Band 26 for Part 90S

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
<b>BAND 26 BW: 1.4M QPSK RB: 1,0</b>	814.7	26697	V	14.39	3.32	-2.89	14.82	50.00
			H	18.14	3.32	-2.89	<b>18.57</b>	50.00
	819.0	26740	V	13.92	3.32	-2.9	14.34	50.00
			H	18.08	3.32	-2.9	18.5	50.00
	823.3	26783	V	13.44	3.31	-2.91	13.84	50.00
			H	17.22	3.31	-2.91	17.62	50.00
<b>BAND 26 BW: 1.4M QPSK RB: 1,5</b>	814.7	26697	V	14.31	3.32	-2.89	14.74	50.00
			H	18.12	3.32	-2.89	<b>18.55</b>	50.00
	819.0	26740	V	13.83	3.31	-2.9	14.24	50.00
			H	17.63	3.32	-2.9	18.05	50.00
	823.3	26783	V	13.47	3.31	-2.92	13.87	50.00
			H	16.97	3.31	-2.92	17.36	50.00
<b>BAND 26 BW: 1.4M 16QAM RB: 1,0</b>	814.7	26697	V	14.29	3.32	-2.89	14.73	50.00
			H	18.42	3.32	-2.89	<b>18.85</b>	50.00
	819.0	26740	V	13.96	3.32	-2.9	14.37	50.00
			H	17.32	3.32	-2.9	17.73	50.00
	823.3	26783	V	13.7	3.31	-2.91	14.1	50.00
			H	17.38	3.31	-2.91	17.78	50.00
<b>BAND 26 BW: 1.4M 16QAM RB: 1,5</b>	814.7	26697	V	14.05	3.32	-2.89	14.48	50.00
			H	18.46	3.32	-2.89	<b>18.89</b>	50.00
	819.0	26740	V	13.48	3.31	-2.9	13.89	50.00
			H	17.26	3.32	-2.9	17.68	50.00
	823.3	26783	V	13.77	3.31	-2.92	14.16	50.00
			H	17.28	3.31	-2.92	17.67	50.00

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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
<b>BAND 26 BW: 3M QPSK RB: 1,0</b>	815.5	26705	V	14.21	3.32	-2.89	14.64	50.00
			H	18.41	3.32	-2.89	<b>18.84</b>	50.00
	819.0	26740	V	13.97	3.32	-2.9	14.39	50.00
			H	18.19	3.32	-2.9	18.61	50.00
	822.5	26775	V	13.7	3.31	-2.91	14.11	50.00
			H	17.52	3.31	-2.91	17.92	50.00
<b>BAND 26 BW: 3M QPSK RB: 1,14</b>	815.5	26705	V	14.05	3.32	-2.89	14.47	50.00
			H	18.5	3.32	-2.9	<b>18.92</b>	50.00
	819.0	26740	V	13.71	3.31	-2.91	14.12	50.00
			H	17.66	3.31	-2.91	18.06	50.00
	822.5	26775	V	13.53	3.31	-2.92	13.92	50.00
			H	17.14	3.31	-2.92	17.54	50.00
<b>BAND 26 BW: 3M 16QAM RB: 1,0</b>	815.5	26705	V	14.17	3.32	-2.89	14.6	50.00
			H	18.27	3.32	-2.89	<b>18.7</b>	50.00
	819.0	26740	V	13.39	3.32	-2.9	13.81	50.00
			H	17.5	3.32	-2.9	17.92	50.00
	822.5	26775	V	13.42	3.31	-2.91	13.82	50.00
			H	17.35	3.31	-2.91	17.75	50.00
<b>BAND 26 BW: 3M 16QAM RB: 1,14</b>	815.5	26705	V	13.56	3.32	-2.89	13.98	50.00
			H	17.78	3.32	-2.89	<b>18.2</b>	50.00
	819.0	26740	V	13.3	3.31	-2.91	13.71	50.00
			H	17.33	3.31	-2.91	17.74	50.00
	822.5	26775	V	13.59	3.31	-2.92	13.98	50.00
			H	17.19	3.31	-2.92	17.58	50.00

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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
<b>BAND 26 BW: 5M QPSK RB: 1,0</b>	816.5	26715	V	13.98	3.32	-2.89	14.42	50.00
			H	18.13	3.32	-2.89	<b>18.56</b>	50.00
	819.0	26740	V	13.95	3.32	-2.89	14.37	50.00
			H	17.98	3.32	-2.89	18.41	50.00
	821.5	26765	V	13.72	3.31	-2.9	14.13	50.00
			H	17.54	3.32	-2.9	17.96	50.00
<b>BAND 26 BW: 5M QPSK RB: 1,24</b>	816.5	26715	V	13.66	3.32	-2.9	14.08	50.00
			H	17.87	3.32	-2.9	<b>18.28</b>	50.00
	819.0	26740	V	13.46	3.31	-2.91	13.87	50.00
			H	17.38	3.31	-2.91	17.78	50.00
	821.5	26765	V	13.44	3.31	-2.92	13.84	50.00
			H	17.04	3.31	-2.92	17.43	50.00
<b>BAND 26 BW: 5M 16QAM RB: 1,0</b>	816.5	26715	V	13.8	3.32	-2.89	14.23	50.00
			H	17.9	3.32	-2.89	<b>18.33</b>	50.00
	819.0	26740	V	13.47	3.32	-2.89	13.89	50.00
			H	17.7	3.32	-2.89	18.12	50.00
	821.5	26765	V	13.47	3.31	-2.9	13.88	50.00
			H	17.47	3.32	-2.9	17.89	50.00
<b>BAND 26 BW: 5M 16QAM RB: 1,24</b>	816.5	26715	V	13.62	3.32	-2.9	14.04	50.00
			H	17.71	3.32	-2.9	<b>18.13</b>	50.00
	819.0	26740	V	13.32	3.31	-2.91	13.73	50.00
			H	17.23	3.31	-2.91	17.64	50.00
	821.5	26765	V	13.19	3.31	-2.92	13.58	50.00
			H	16.79	3.31	-2.92	17.18	50.00

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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
<b>BAND 26 BW: 10M QPSK RB: 1,0</b>	819.0	26740	V	13.84	3.32	-2.89	14.27	50.00
			H	18.06	3.32	-2.89	<b>18.49</b>	50.00
<b>BAND 26 BW: 10M QPSK RB: 1,49</b>	819.0	26740	V	13.67	3.32	-2.9	14.08	50.00
			H	17.79	3.32	-2.9	<b>18.2</b>	50.00
<b>BAND 26 BW: 10M 16QAM RB: 1,0</b>	819.0	26740	V	13.69	3.32	-2.89	14.12	50.00
			H	17.81	3.32	-2.89	<b>18.24</b>	50.00
<b>BAND 26 BW: 10M 16QAM RB: 1,49</b>	819.0	26740	V	13.38	3.32	-2.9	13.79	50.00
			H	17.34	3.32	-2.9	<b>17.75</b>	50.00

## Remark

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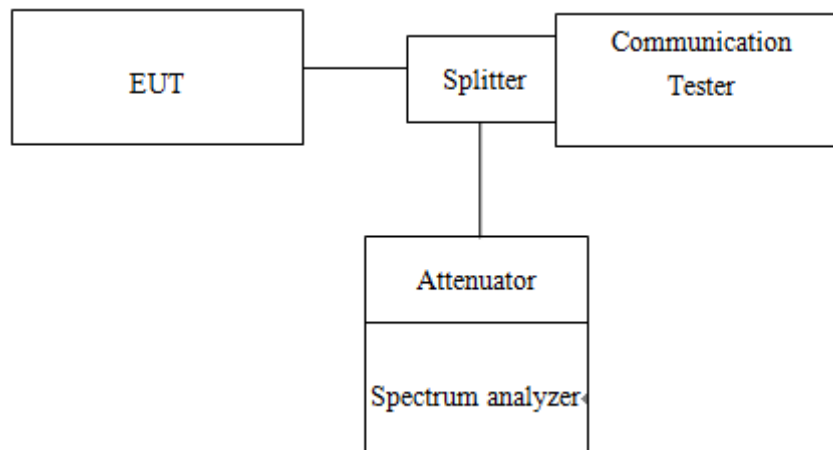
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## 8. OCCUPIED BANDWIDTH MEASUREMENT

### 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.
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	12/10/2016	12/09/2017

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## 8.5. Measurement Result

Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		GSM 850	GPRS 850	EDGE 850	GSM 850	GPRS 850	EDGE 850
824.2	128	<b>0.24633</b>	<b>0.24426</b>	<b>0.2488</b>	<b>0.3172</b>	<b>0.3147</b>	0.3084
836.6	190	0.23781	0.23785	0.24847	0.3013	0.3089	<b>0.3235</b>
848.8	251	0.2415	0.2429	0.24438	0.3039	0.3128	0.3080

Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		GSM 1900	GPRS 1900	EDGE 1900	GSM 1900	GPRS 1900	EDGE 1900
1850.2	512	0.2405	0.24197	<b>0.24896</b>	0.3050	0.3128	0.3135
1880.0	661	0.24051	<b>0.24972</b>	0.24435	0.3056	<b>0.3222</b>	0.3104
1909.8	810	<b>0.24134</b>	0.24348	0.23924	<b>0.3071</b>	0.3078	<b>0.3149</b>

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Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1850.20	9262	<b>4.1233</b>	<b>4.114</b>	4.0998	<b>4.691</b>	<b>4.674</b>	<b>4.683</b>
1880.00	9400	4.1074	4.1066	4.1044	4.676	4.670	4.670
1909.80	9538	4.1089	4.1019	<b>4.1156</b>	4.676	4.673	4.644

Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		WCDMA IV	HSDPA IV	HSUPA IV	WCDMA IV	HSDPA IV	HSUPA IV
1712.40	1312	4.1046	<b>4.112</b>	4.0964	4.670	<b>4.658</b>	4.673
1732.60	1413	4.1134	4.1067	<b>4.1102</b>	4.673	4.653	<b>4.676</b>
1752.60	1513	<b>4.1156</b>	4.0949	4.1015	<b>4.682</b>	4.656	4.655

Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.1185	<b>4.1315</b>	4.0916	4.687	<b>5.255</b>	<b>4.662</b>
836.60	4183	4.1051	4.1075	4.1104	4.678	4.667	4.648
846.60	4233	<b>4.1275</b>	4.1274	<b>4.1203</b>	<b>4.692</b>	4.684	4.652

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LTE BAND 2 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.0976	1.0968	1.274	1.297
1880.0	18900	<b>1.0981</b>	<b>1.0981</b>	1.277	<b>1.299</b>
1909.3	19193	1.0979	1.0979	<b>1.278</b>	1.276

LTE BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1851.5	18615	2.6991	2.7011	<b>2.989</b>	<b>2.984</b>
1880.0	18900	<b>2.7014</b>	2.6989	2.979	2.977
1908.5	19185	2.6970	<b>2.7020</b>	2.981	2.968

LTE BAND 2 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1852.5	18625	4.4932	4.5050	<b>5.014</b>	5.008
1880.0	18900	4.4904	<b>4.5054</b>	4.975	4.966
1907.5	19175	<b>4.5018</b>	4.4961	4.982	<b>5.028</b>

LTE BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1855.0	18650	8.9697	8.9232	9.819	9.809
1880.0	18900	<b>9.0022</b>	<b>8.9469</b>	<b>9.853</b>	9.715
1905.0	19150	8.9641	8.9234	9.802	<b>9.825</b>

LTE BAND 2 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1857.5	18675	<b>13.453</b>	13.419	14.57	14.58
1880.0	18900	13.416	<b>13.424</b>	14.60	14.61
1902.5	19125	13.432	13.412	<b>14.71</b>	<b>14.67</b>

LTE BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1860.0	18700	17.869	17.809	19.33	19.22
1880.0	18900	<b>17.875</b>	17.903	19.35	19.34
1900.0	19100	17.873	<b>17.913</b>	<b>19.37</b>	<b>19.36</b>

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LTE BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.0990	1.0978	1.279	1.277
1732.5	20175	1.0942	1.0980	1.281	1.296
1754.3	20393	1.0972	1.0948	1.270	1.276

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.6984	2.7004	2.969	2.996
1732.5	20175	2.6970	2.6980	2.962	2.971
1753.5	20385	2.6951	2.7032	2.966	2.974

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1712.5	19957	4.4998	4.4941	5.014	5.024
1732.5	20175	4.4967	4.4903	4.982	4.941
1752.5	20375	4.4990	4.4941	4.983	4.955

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	8.9844	8.9347	9.779	9.814
1732.5	20175	8.9637	8.9516	9.898	9.801
1750.0	20350	8.9900	8.9488	9.850	9.740

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.414	13.412	14.70	14.66
1732.5	20175	13.437	13.423	14.74	14.62
1747.5	20325	13.447	13.428	14.70	14.62

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	17.886	17.855	19.42	19.31
1732.5	20175	17.862	17.934	19.43	19.44
1745.0	20300	17.896	17.890	19.40	19.40

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LTE BAND 5 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
824.7	20407	1.0977	1.0985	1.297	1.284
836.5	20525	1.0973	1.0994	1.284	1.291
848.3	20643	1.0988	1.0968	1.304	1.297

LTE BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
825.5	20415	2.6992	2.6974	2.982	2.991
836.5	20525	2.6954	2.7040	2.968	3.002
847.5	20635	2.7005	2.6982	2.978	2.938

LTE BAND 5 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
826.5	20425	4.4935	4.4931	4.999	4.969
836.5	20525	4.5014	4.4872	5.020	4.988
846.5	20625	4.5011	4.4975	5.032	5.016

LTE BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
829.0	20450	8.9899	8.9506	9.735	9.812
836.5	20525	8.9996	8.9513	9.895	9.791
844.0	20600	8.9799	8.9535	9.830	9.750

LTE BAND 7 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2502.5	20775	4.4946	0.0000	4.987	0.000
2535.0	21100	4.4956	4.4917	4.953	4.966
2567.5	21425	4.4956	4.4928	4.978	4.981

LTE BAND 7 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2505.0	20800	8.9859	8.9496	9.880	9.766
2535.0	21100	8.9823	8.9528	9.888	9.852
2565.0	21400	8.9511	8.9206	9.759	9.768

LTE BAND 7 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2507.5	20825	13.425	13.439	14.55	14.64
2535.0	21100	13.474	13.439	14.57	14.24
2562.5	21375	13.424	13.401	14.60	14.66

LTE BAND 7 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2510.0	20850	17.895	17.898	19.31	19.25
2535.0	21100	17.877	17.935	19.34	19.29
2560.0	21350	17.815	17.807	19.31	19.31

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LTE BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
699.7	23017	1.0974	1.0995	1.272	1.302
707.5	23095	1.0964	1.0985	1.282	1.297
715.3	23173	1.0974	1.0989	1.291	1.303

LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
700.5	23025	2.6959	2.6996	2.973	3.001
707.5	23095	2.6980	2.7016	2.973	2.976
714.5	23165	2.6940	2.6961	2.979	2.992

LTE BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.4910	4.4915	4.985	4.997
707.5	23095	4.4935	4.5029	5.005	5.006
713.5	23155	4.4922	4.4971	4.993	4.998

LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
704.0	23060	8.9776	8.9555	9.881	9.790
707.5	23095	8.9676	8.9682	9.876	9.823
711.0	23130	8.9733	8.9509	9.831	9.772

LTE BAND 17 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
706.5	23755	4.4944	4.5011	5.042	4.998
710.0	23790	4.5038	4.5027	4.955	4.963
713.5	23825	4.4821	4.4914	4.993	4.961

LTE BAND 17 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
709.0	23780	9.0020	8.9566	9.914	9.842
710.0	23790	8.9749	8.9561	9.858	9.747
711.0	23780	8.9805	8.9472	9.895	9.796

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LTE BAND 26 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
824.7	26797	1.0971	1.0997	1.288	1.276
836.5	26915	1.0950	<b>1.1005</b>	<b>1.289</b>	<b>1.292</b>
848.3	27033	<b>1.0978</b>	1.0992	1.276	1.281

LTE BAND 26 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
825.5	26805	<b>2.7013</b>	2.7006	<b>2.994</b>	2.976
836.5	26915	2.6946	2.6978	2.966	2.976
847.5	27025	2.7001	<b>2.7047</b>	2.967	<b>2.992</b>

LTE BAND 26 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
826.5	26815	4.4951	<b>4.5043</b>	4.993	<b>5.009</b>
836.5	26915	4.4967	4.4848	5.009	4.984
846.5	27015	<b>4.4983</b>	4.5014	<b>5.020</b>	4.969

LTE BAND 26 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
829.0	26840	<b>8.9818</b>	8.9529	9.825	9.808
836.5	26915	8.9769	<b>8.9619</b>	9.793	9.807
844.0	26990	8.9791	8.9458	<b>9.864</b>	<b>9.818</b>

LTE BAND 26 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
831.5	26865	13.455	<b>13.459</b>	14.57	14.68
836.5	26915	<b>13.471</b>	13.437	<b>14.65</b>	14.66
841.5	26965	13.357	13.402	14.57	<b>14.73</b>

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LTE BAND 41 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2547.5	40165	4.4946	4.5100	5.039	5.330
2600.0	40690	4.5054	4.4991	5.082	5.355
2652.5	41215	4.4903	4.4954	5.109	5.275

LTE BAND 41 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2550.0	40190	8.9808	8.9710	9.911	9.844
2600.0	40690	8.9927	8.9724	12.180	10.280
2650.0	41190	8.9662	8.9727	9.781	10.140

LTE BAND 41 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2552.5	40215	13.467	13.453	15.72	15.20
2600.0	40690	13.487	13.438	19.93	21.17
2647.5	41165	13.441	13.408	15.58	15.26

LTE BAND 41 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2555.0	40240	17.933	17.908	19.67	23.68
2600.0	40690	17.915	17.892	26.06	28.89
2645.0	41140	17.928	17.846	19.49	23.39

LTE BAND 26 for part 90S Channel bandwidth:					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
814.7	26697	1.0984	1.0986	1.273	1.301
819.0	26740	1.0976	1.1006	1.289	1.285
823.3	26783	1.0977	1.1004	1.294	1.311

LTE BAND 26 for part 90S Channel bandwidth:					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
815.5	26705	2.7021	2.6968	2.986	2.983
819.0	26740	2.6958	2.7029	2.971	2.982
822.5	26775	2.6958	2.7003	2.987	2.979

LTE BAND 26 for part 90S Channel bandwidth:					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
816.5	26715	4.4969	4.5036	5.010	5.006
819.0	26740	4.4955	4.5074	5.024	5.026
821.5	26765	4.4946	4.4988	5.013	4.966

LTE BAND 26 for part 90S Channel bandwidth:					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
819.0	26740	8.9629	8.9532	9.818	9.785

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GPRS\_850MHz\_LowCH128-824.2



GSM\_850MHz\_MidCH190-836.6



GPRS\_850MHz\_MidCH190-836.6



GSM\_850MHz\_HighCH251-848.8



GPRS\_850MHz\_HighCH251-848.8



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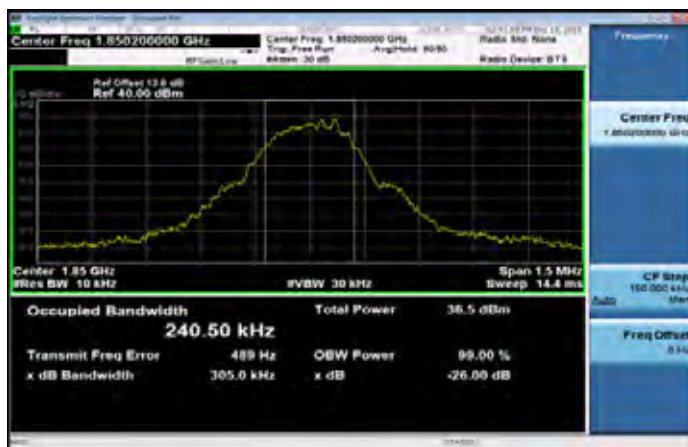
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EDGE\_850MHz\_LowCH128-824.2



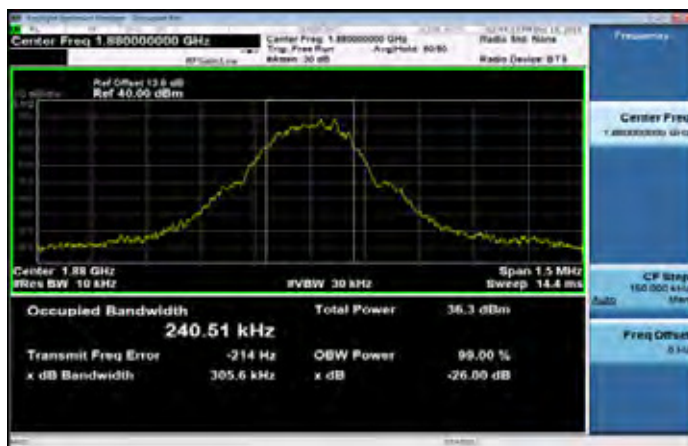
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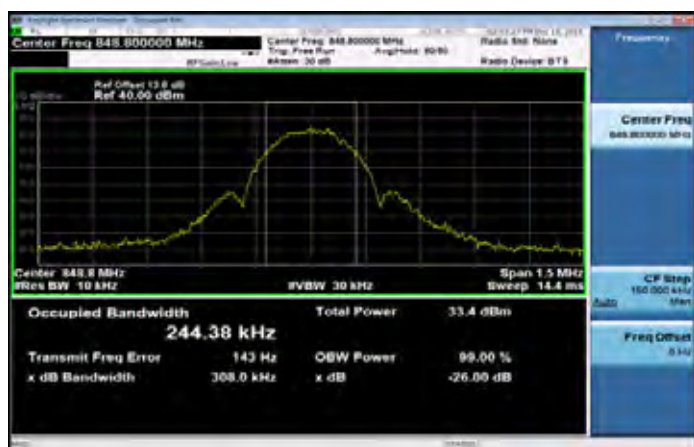
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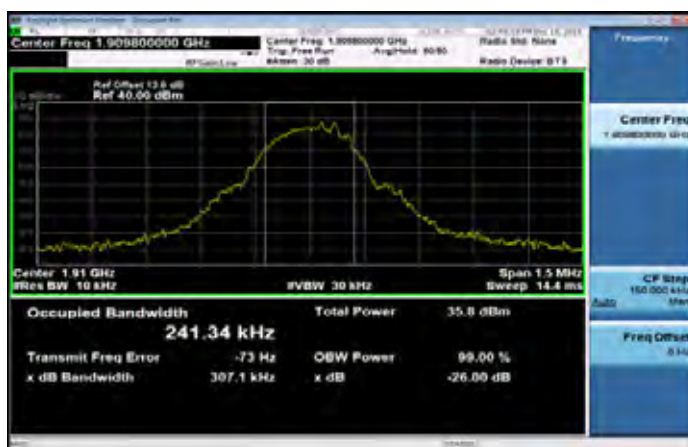
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GSM\_1900MHz\_HighCH810-1909.8



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EDGE\_1900MHz\_LowCH512-1850.2



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EDGE\_1900MHz\_MidCH661-1880



GPRS\_1900MHz\_HighCH810-1909.8



EDGE\_1900MHz\_HighCH810-1909.8



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HSDPA\_B2\_LowCH9262-1852.4



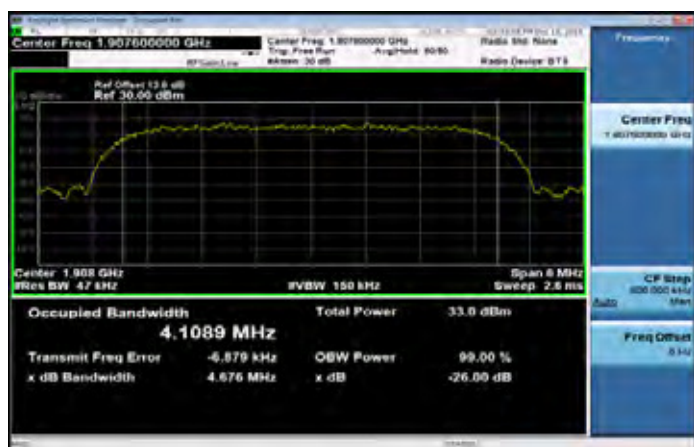
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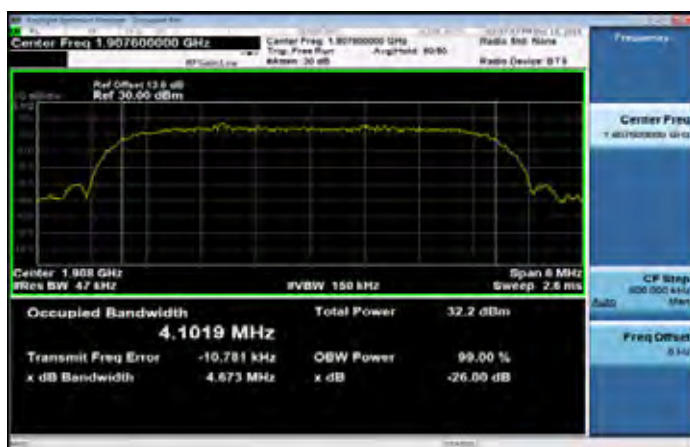
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WCDMA\_B2\_HighCH9538-1907.6



HSDPA\_B2\_HighCH9538-1907.6



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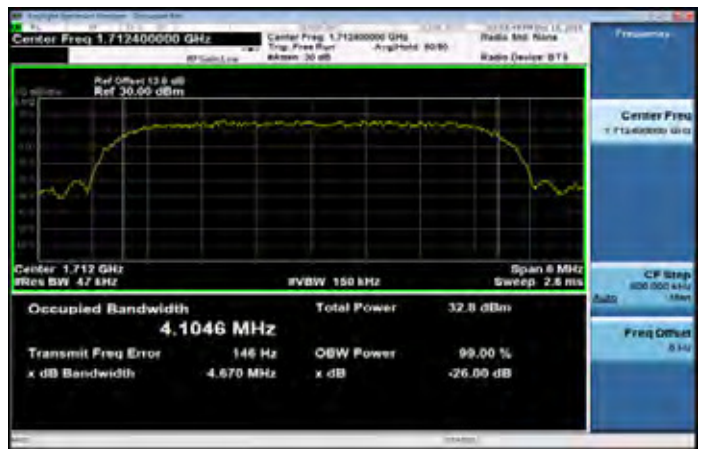
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HSUPA\_B2\_LowCH9262-1852.4



WCDMA\_B4\_LowCH1312-1712.4



HSUPA\_B2\_MidCH9400-1880



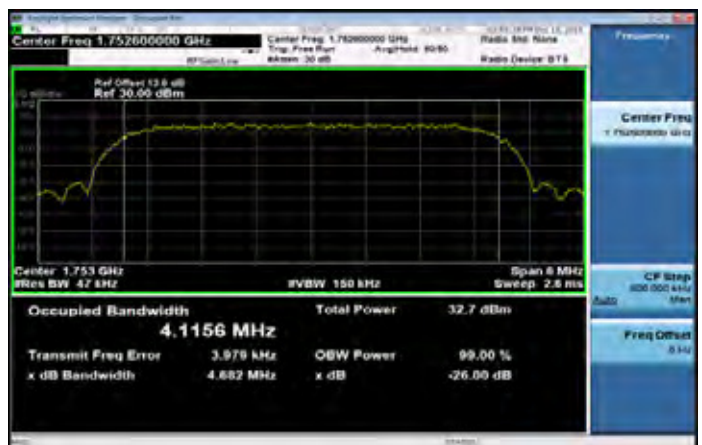
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HSUPA\_B2\_HighCH9538-1907.6



WCDMA\_B4\_HighCH1513-1752.6



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HSDPA\_B4\_LowCH1312-1712.4



HSUPA\_B4\_LowCH1312-1712.4



HSDPA\_B4\_MidCH1413-1732.6



HSUPA\_B4\_MidCH1413-1732.6



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



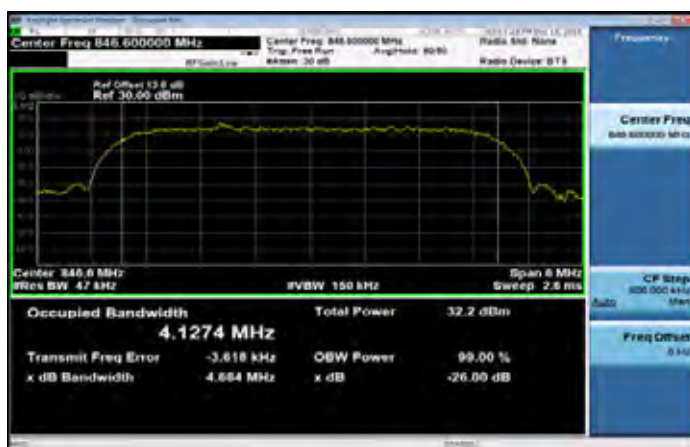
HSDPA\_B5\_MidCH4183-836.6



WCDMA\_B5\_HighCH4233-846.6



HSDPA\_B5\_HighCH4233-846.6



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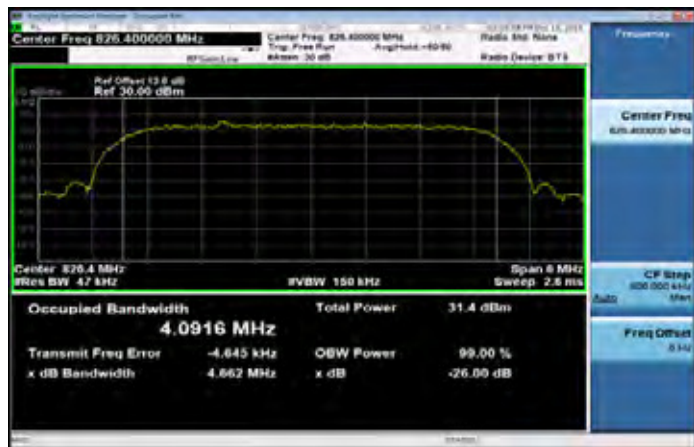
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### HSUPA\_B5\_LowCH4132-826.4



### HSUPA\_B5\_MidCH4183-836.6



### HSUPA\_B5\_HighCH4233-846.6



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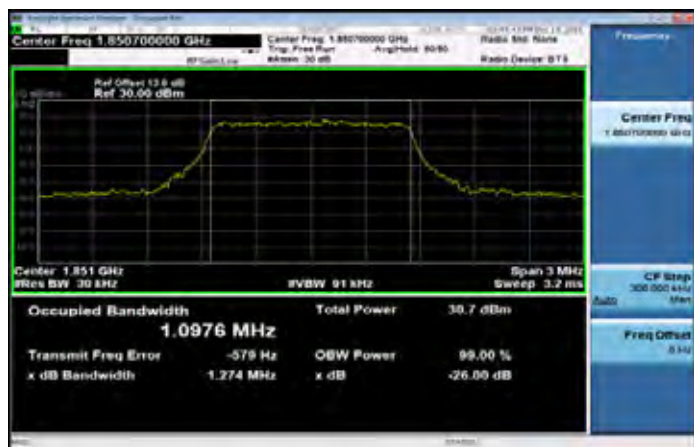
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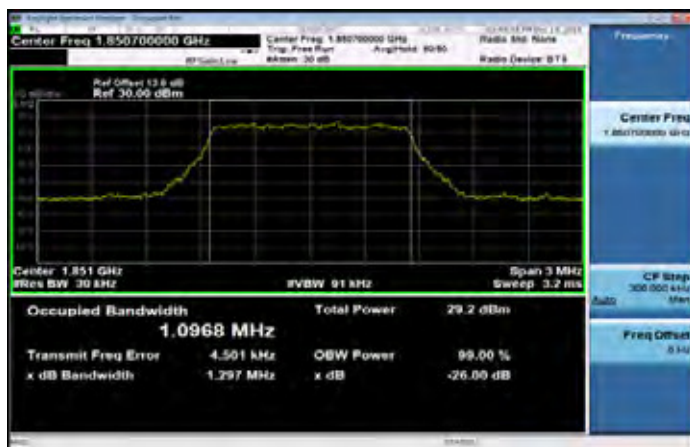
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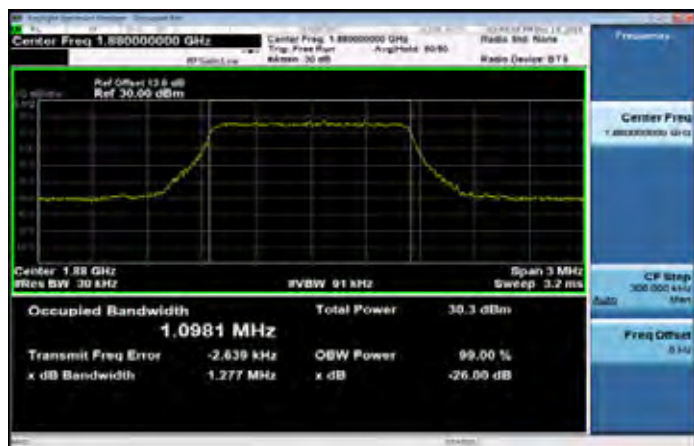
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Band2 1.4MHz\_16-QAM 6 0\_MidCH18900-1880



Band2 1.4MHz\_QPSK 6 0\_HighCH19193-1909.3



Band2 1.4MHz\_16-QAM 6 0\_HighCH19193-1909.3



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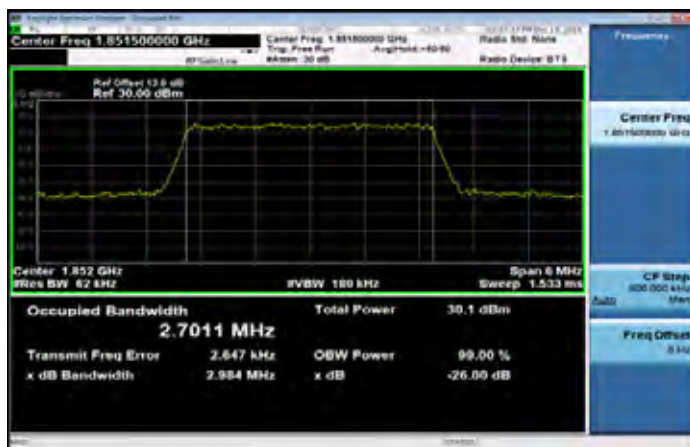
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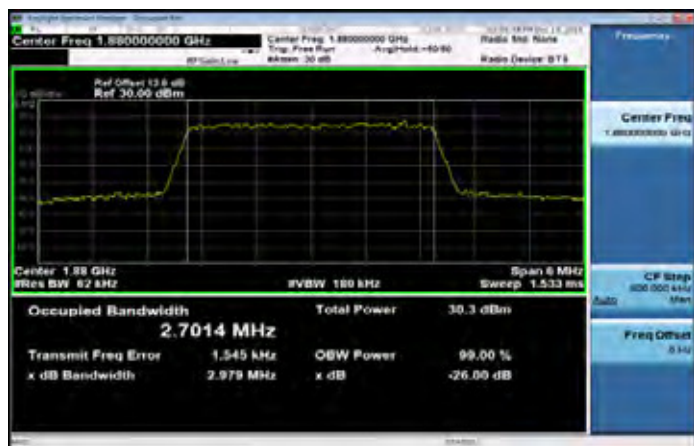
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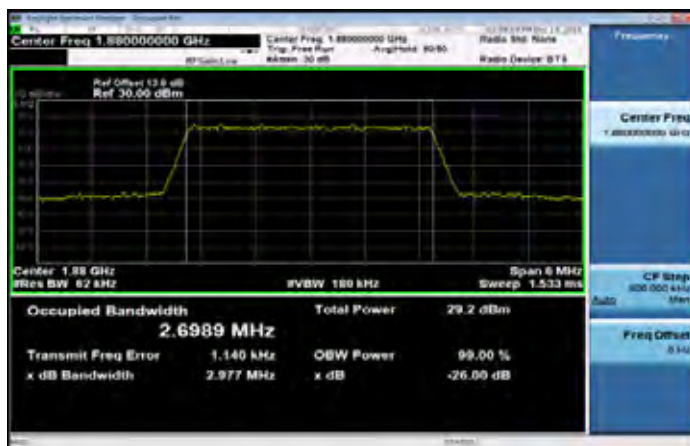
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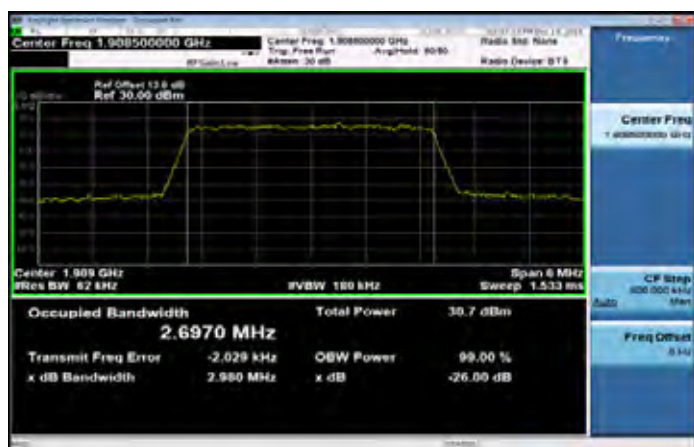
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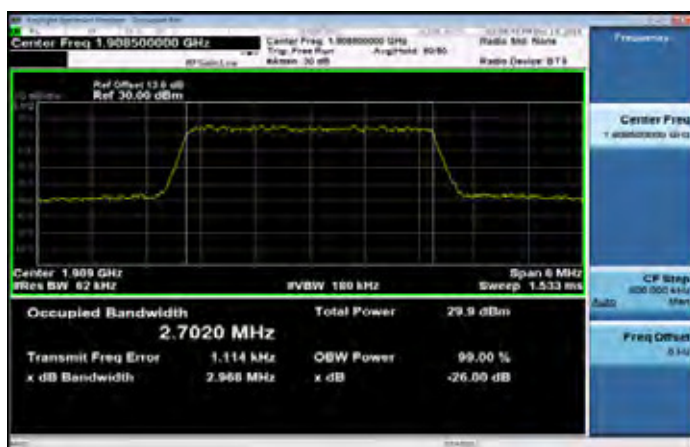
Band2 3MHz\_16-QAM 15 0\_MidCH18900-1880



Band2 3MHz\_QPSK 15 0\_HighCH19185-1908.5



Band2 3MHz\_16-QAM 15 0\_HighCH19185-1908.5



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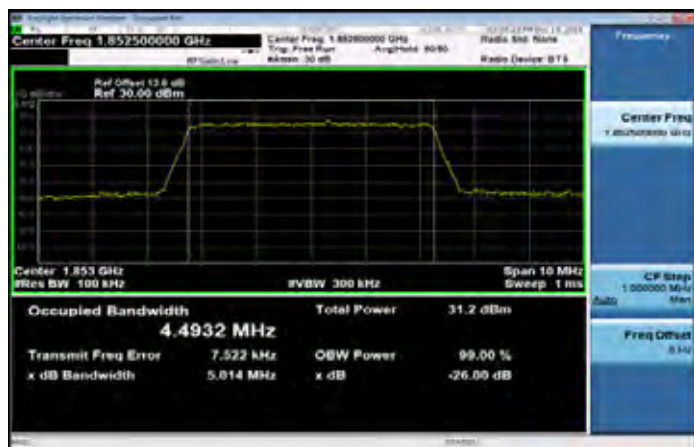
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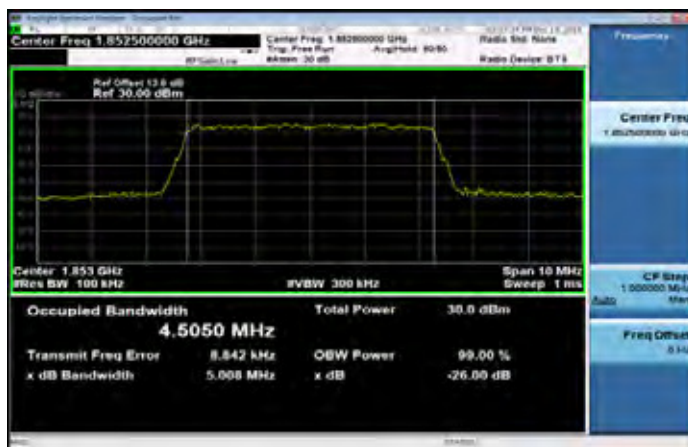
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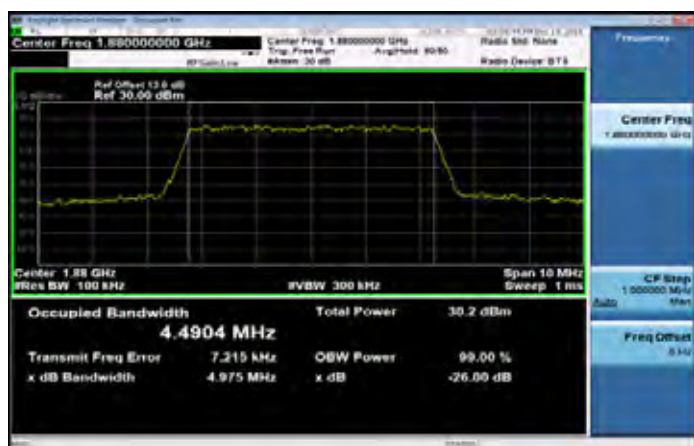
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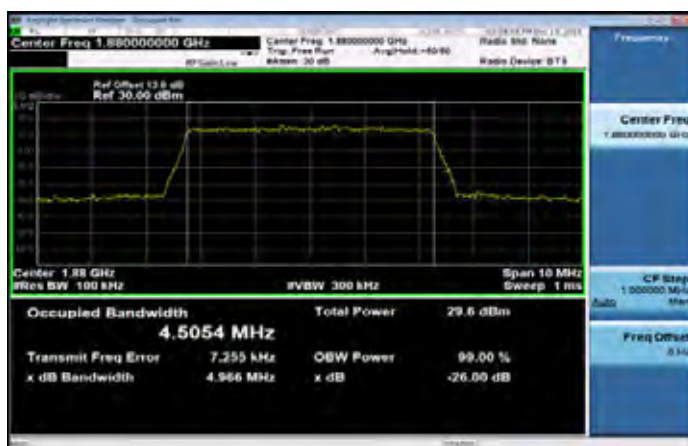
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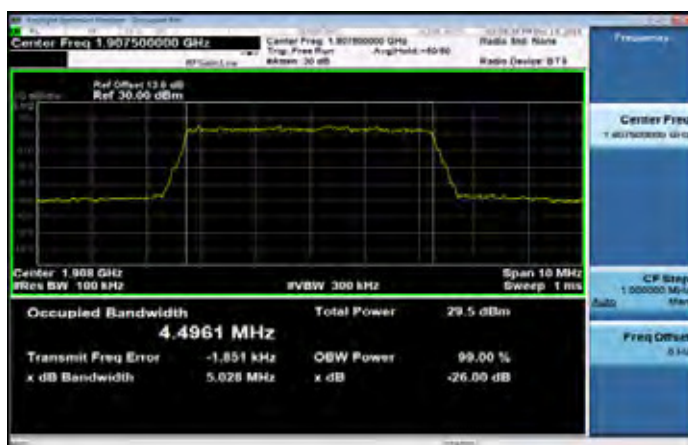
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Band2 5MHz\_QPSK 25 0\_HighCH19175-1907.5



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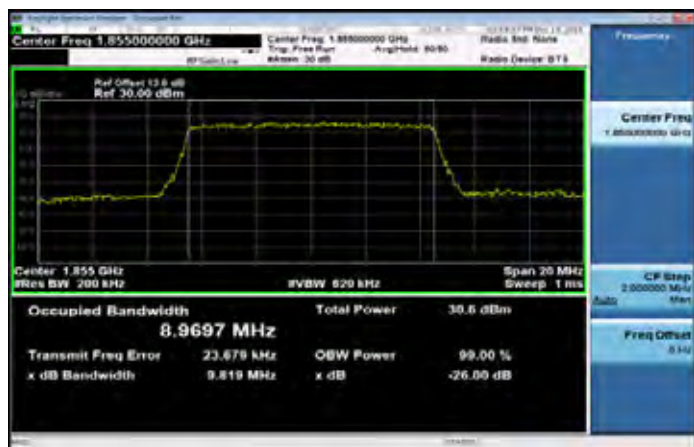
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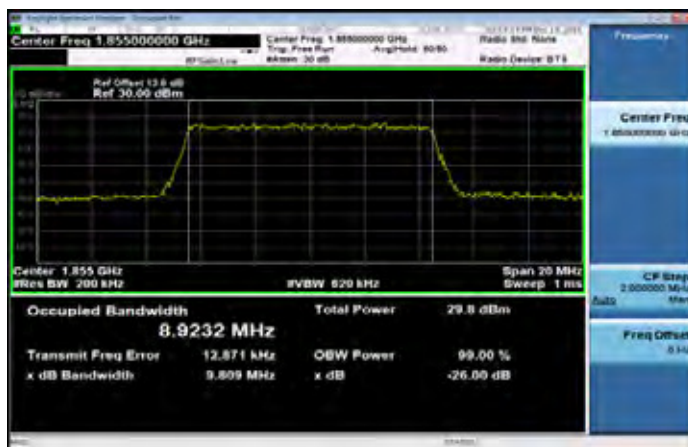
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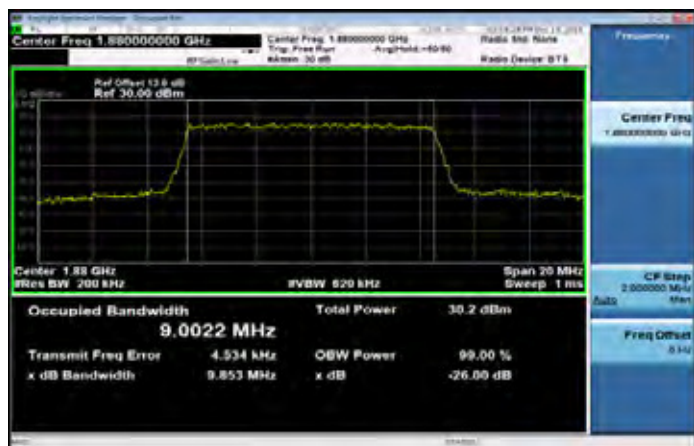
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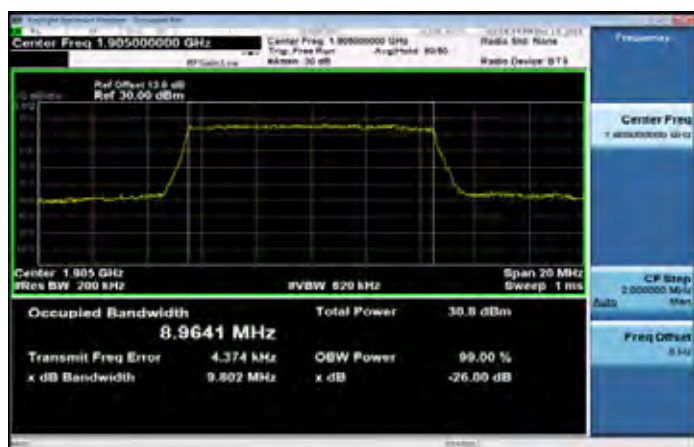
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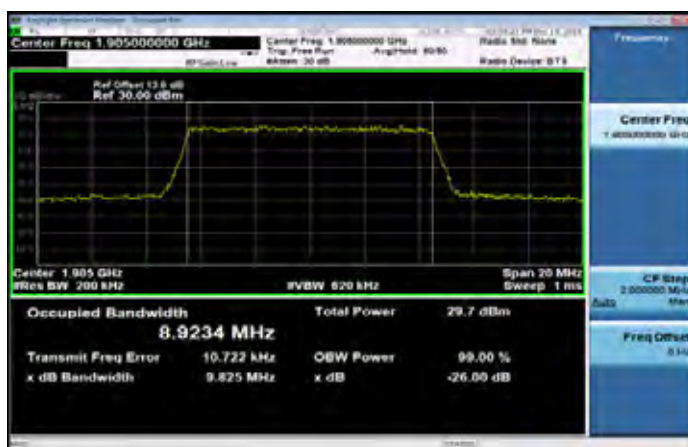
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Band2 10MHz\_QPSK 50 0\_HighCH19150-1905



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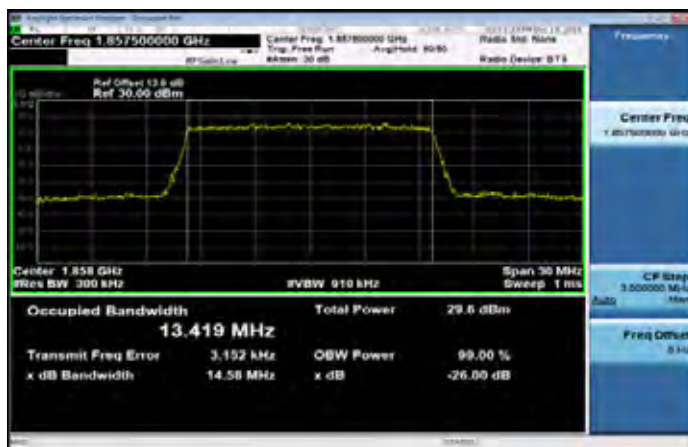
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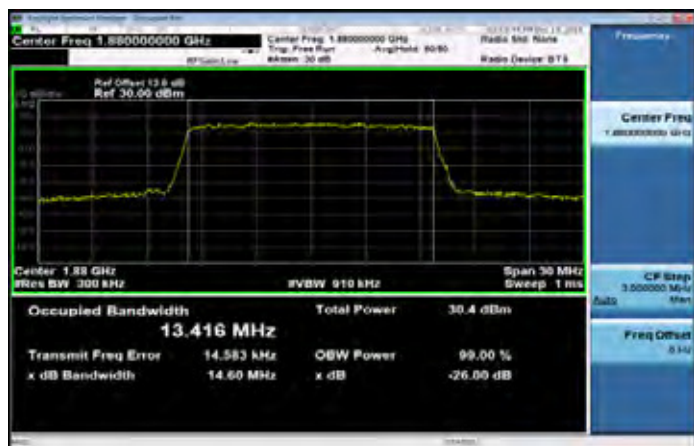
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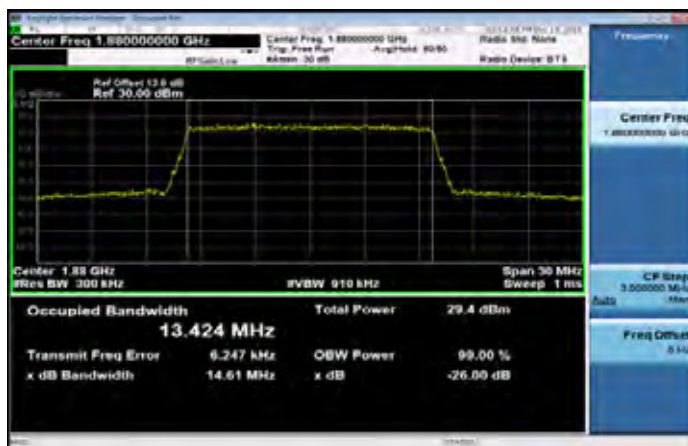
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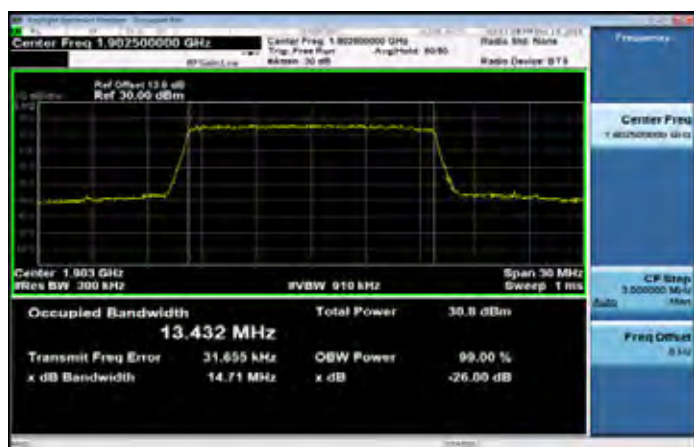
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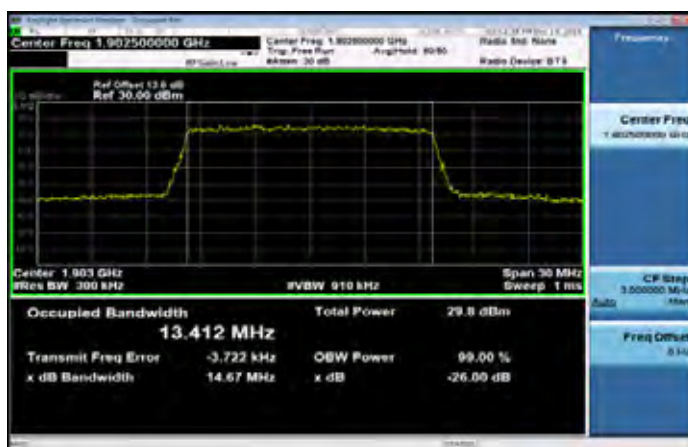
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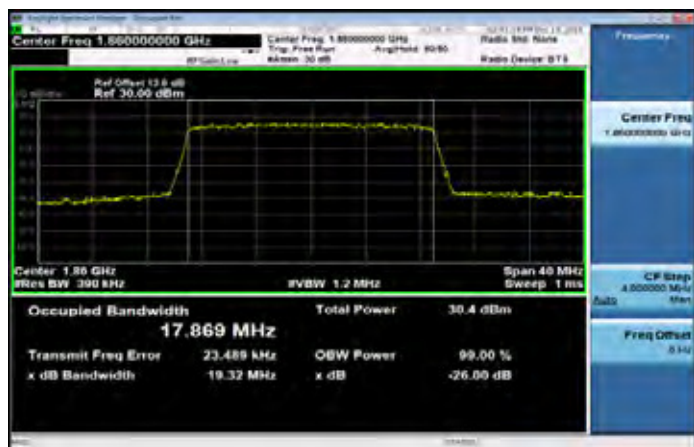
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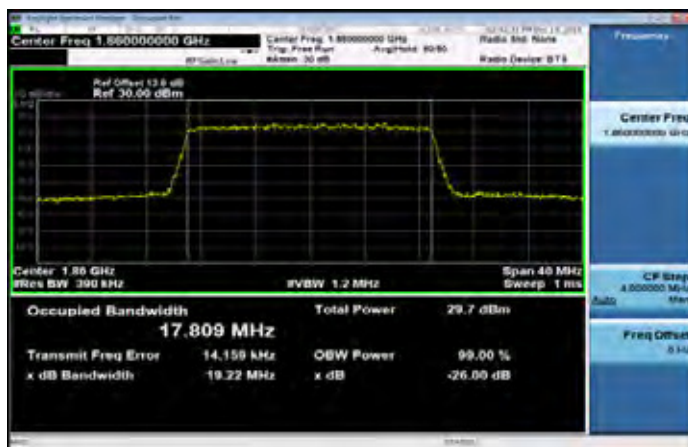
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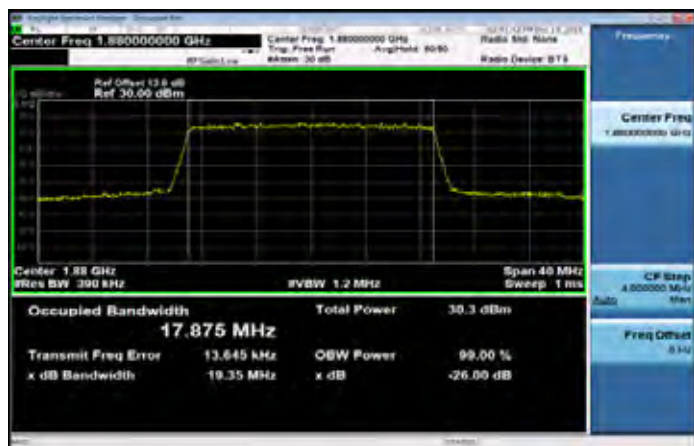
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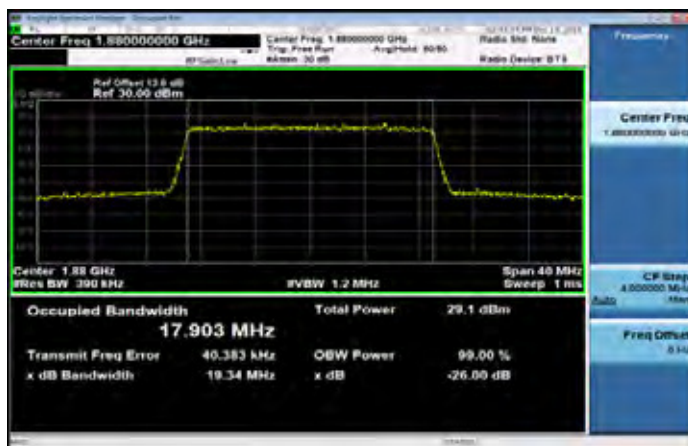
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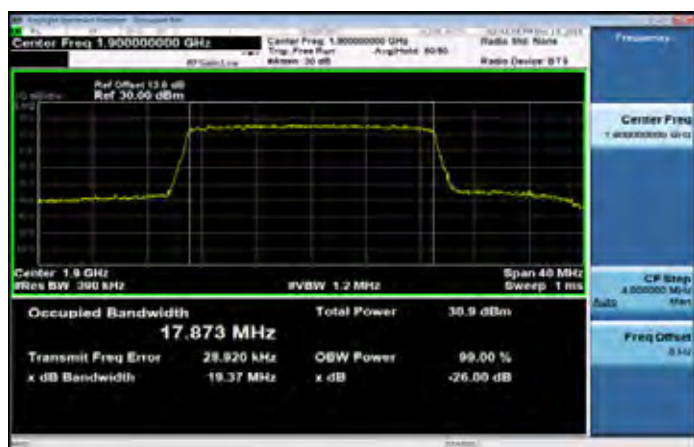
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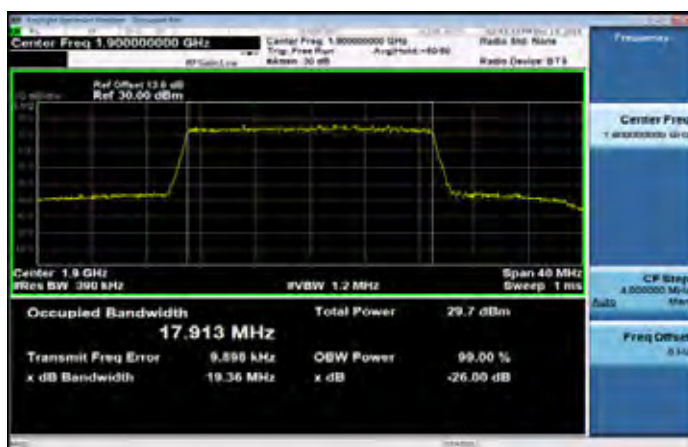
Band2 20MHz\_16-QAM 100 0\_MidCH18900-1880



Band2 20MHz\_QPSK 100 0\_HighCH19100-1900



Band2 20MHz\_16-QAM 100 0\_HighCH19100-1900



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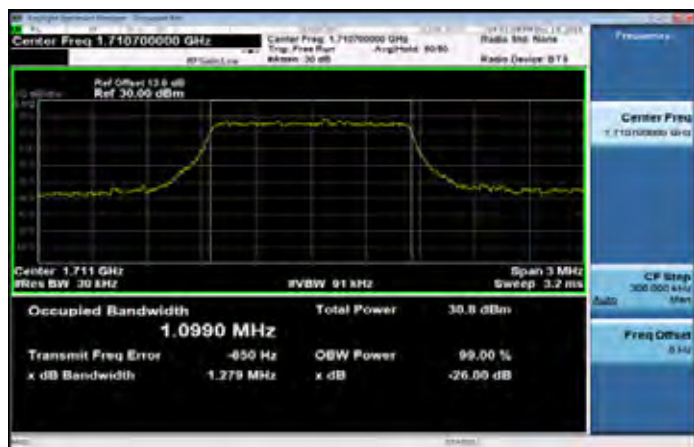
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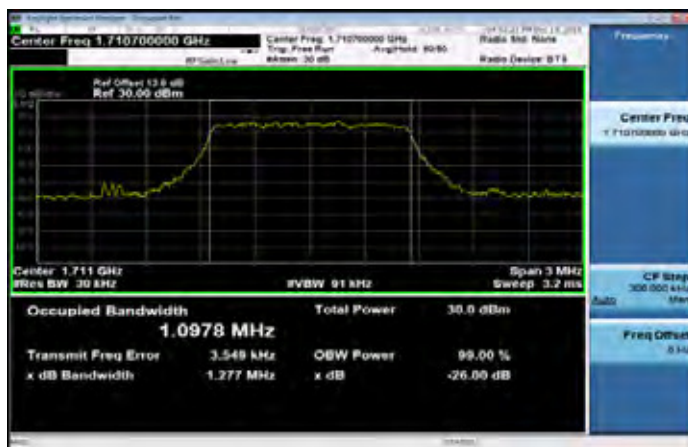
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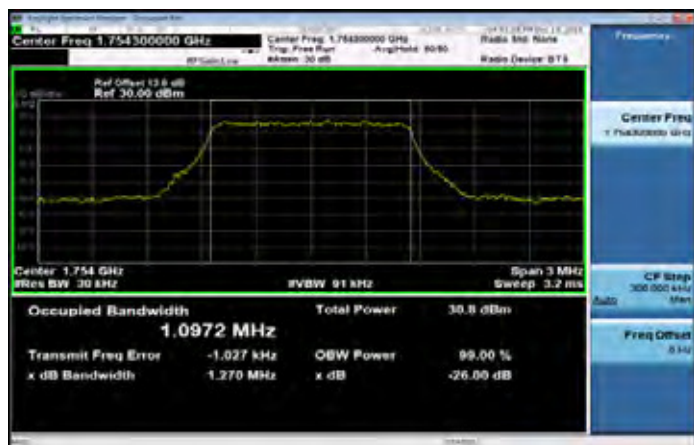
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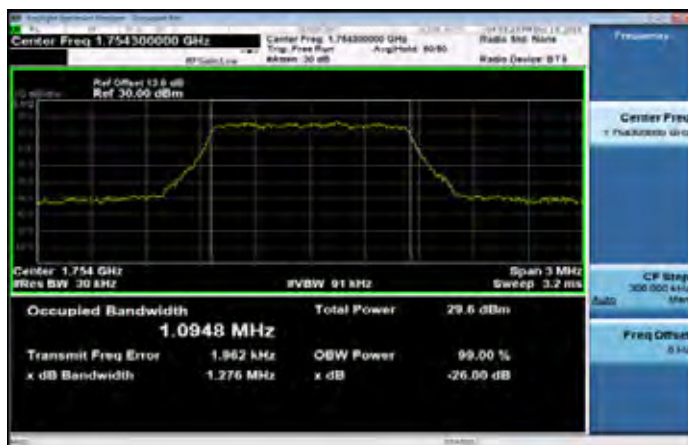
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Band4 1.4MHz\_QPSK 6 0\_HighCH20393-1754.3



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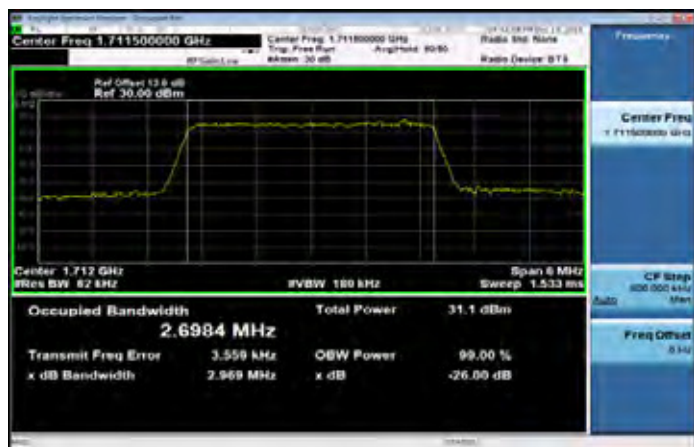
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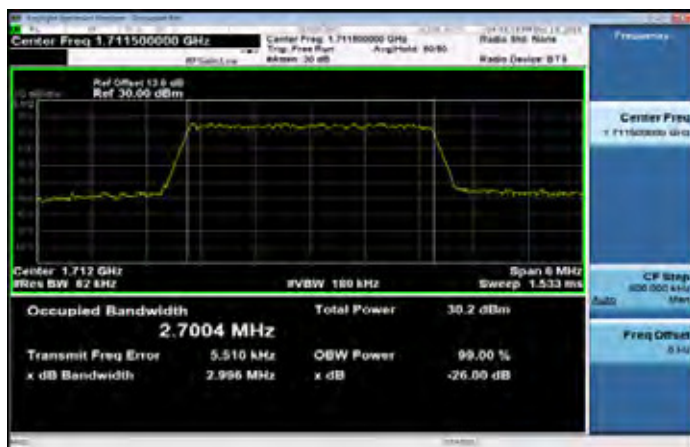
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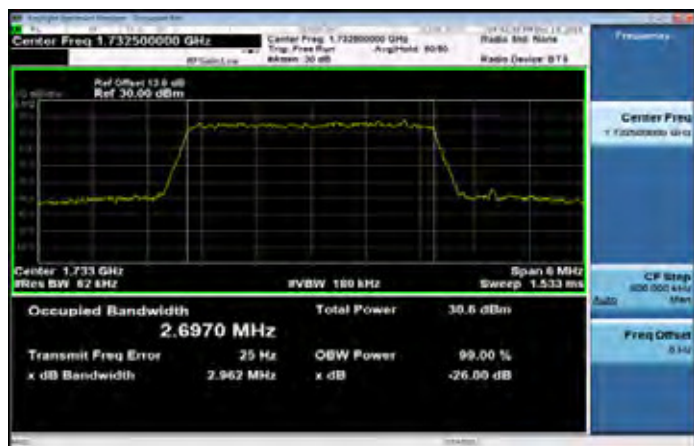
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Band4 3MHz\_16-QAM 15 0\_LowCH19965-1711.5



Band4 3MHz\_QPSK 15 0\_MidCH20175-1732.5



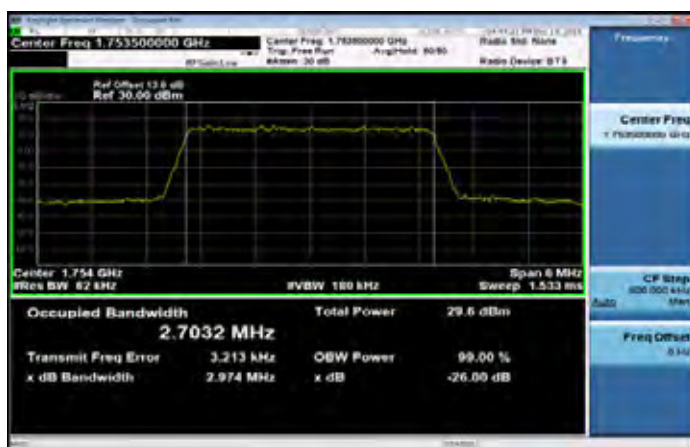
Band4 3MHz\_16-QAM 15 0\_MidCH20175-1732.5



Band4 3MHz\_QPSK 15 0\_HighCH20385-1753.5



Band4 3MHz\_16-QAM 15 0\_HighCH20385-1753.5



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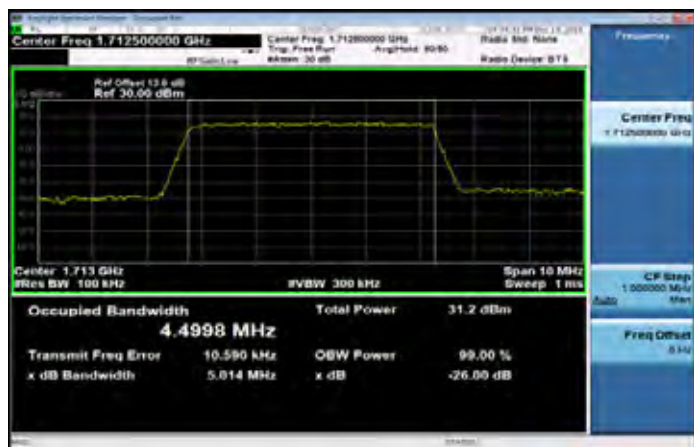
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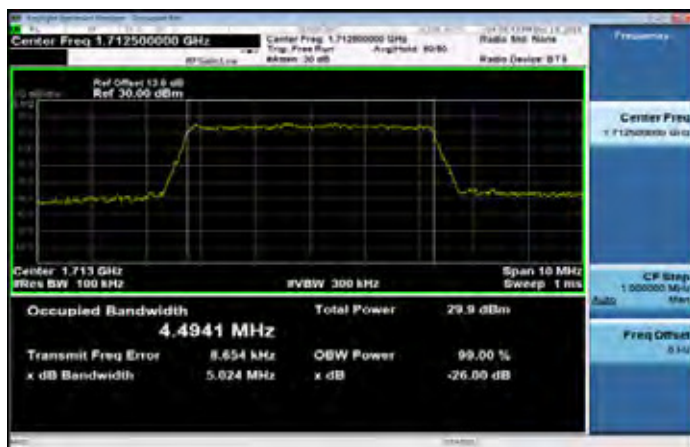
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Band4 5MHz\_16-QAM 25 0\_LowCH19975-1712.5



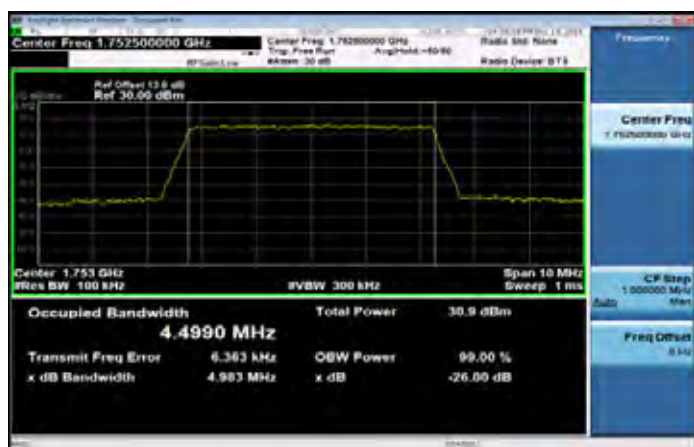
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Band4 5MHz\_16-QAM 25 0\_MidCH20175-1732.5



Band4 5MHz\_QPSK 25 0\_HighCH20375-1752.5



Band4 5MHz\_16-QAM 25 0\_HighCH20375-1752.5



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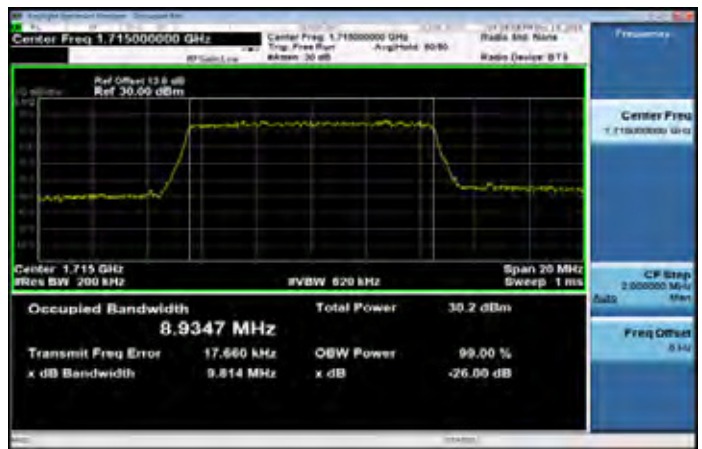
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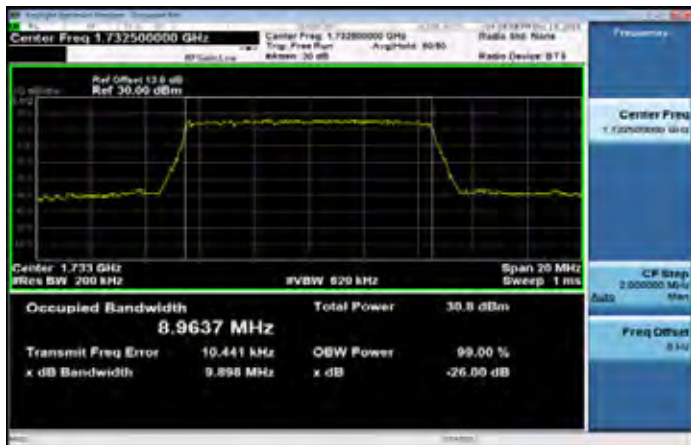
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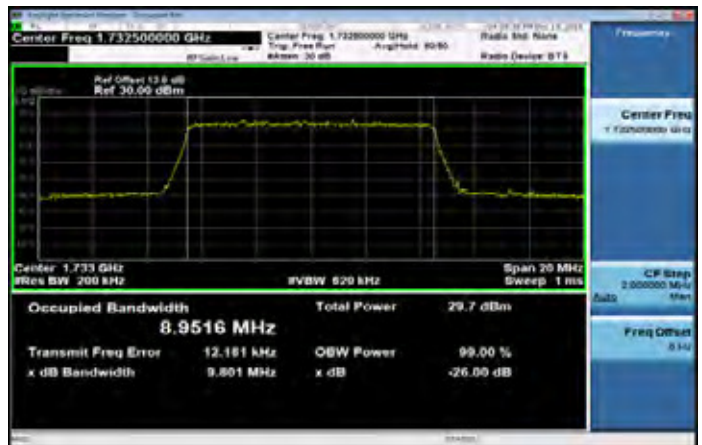
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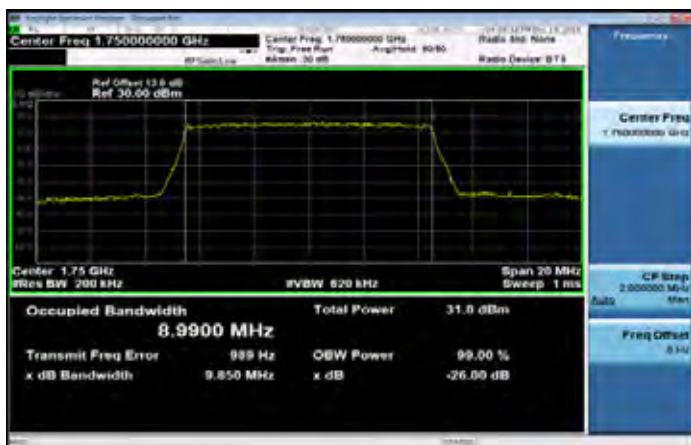
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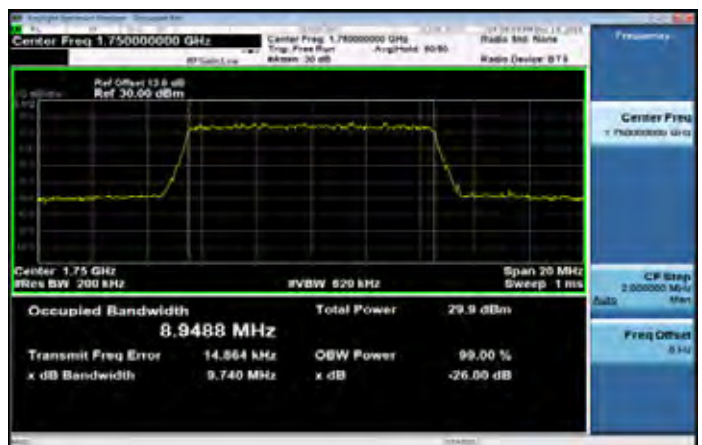
Band4 10MHz\_16-QAM 50 0\_MidCH20175-1732.5



Band4 10MHz\_QPSK 50 0\_HighCH20350-1750



Band4 10MHz\_16-QAM 50 0\_HighCH20350-1750



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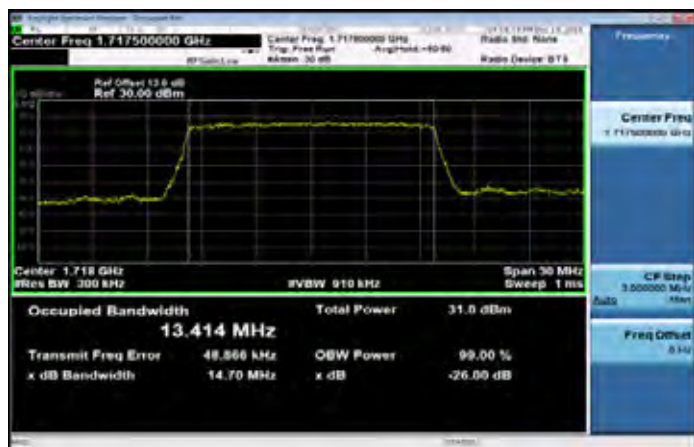
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Band4 15MHz\_16-QAM 75 0\_LowCH20025-1717.5



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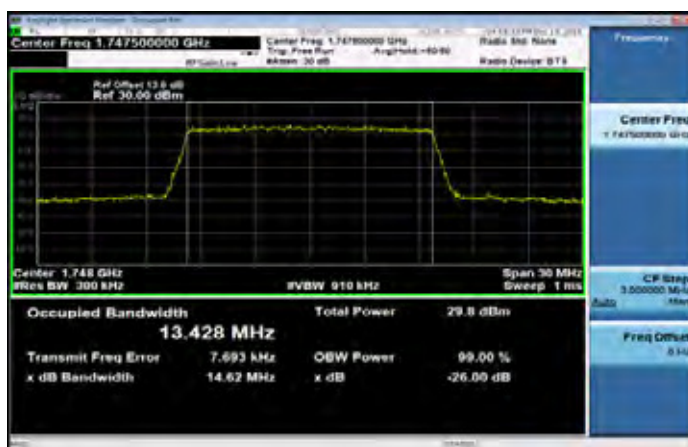
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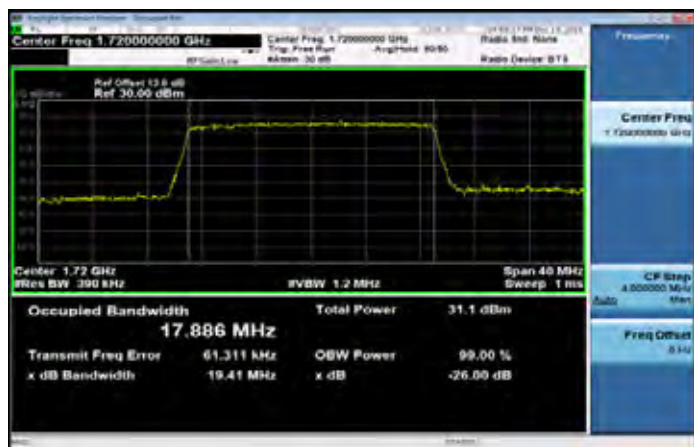
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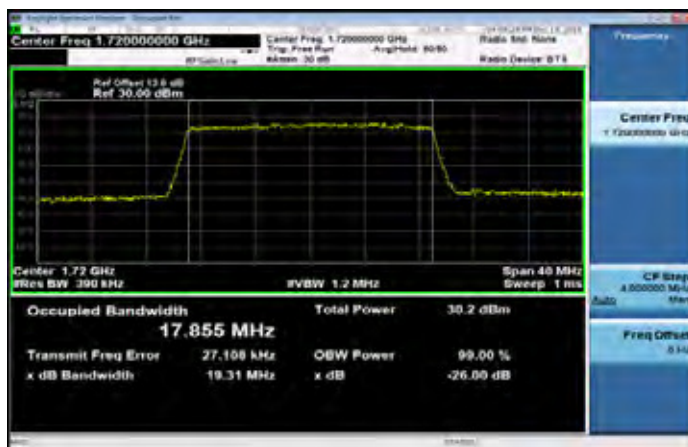
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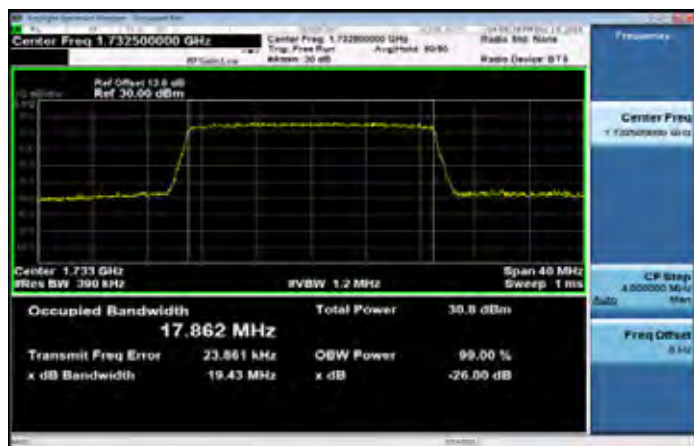
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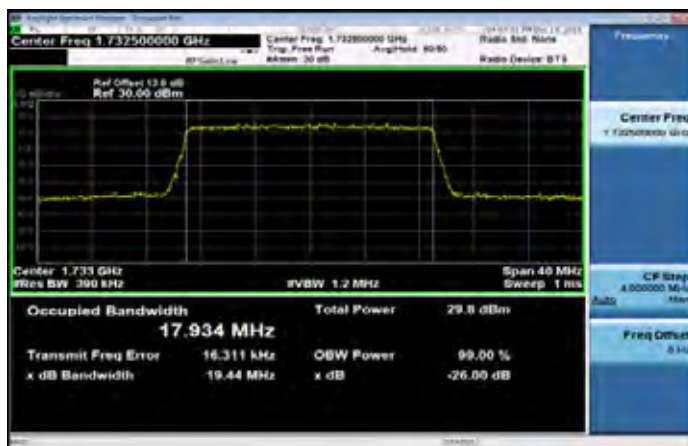
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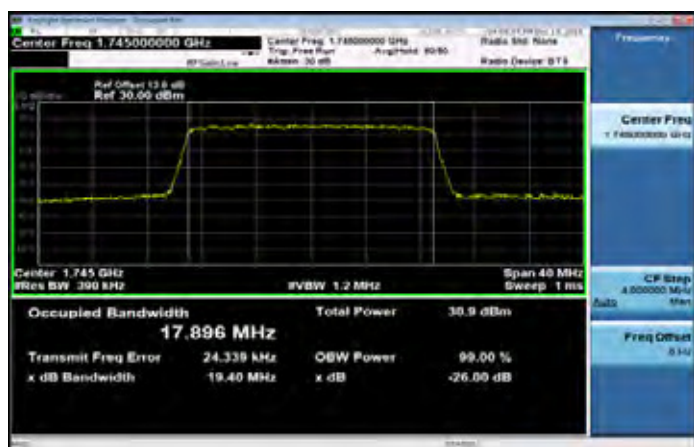
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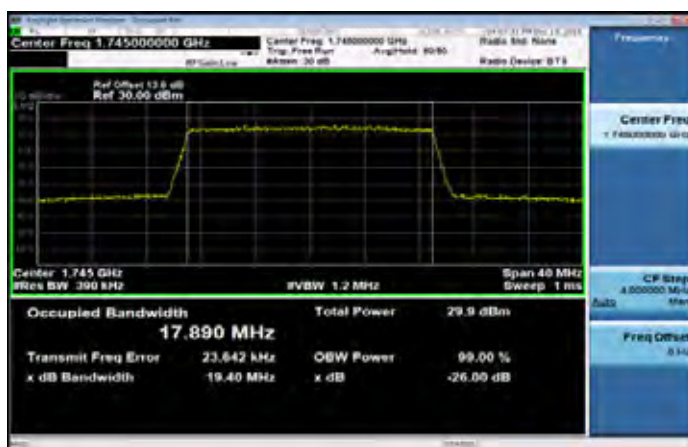
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Band4 20MHz\_QPSK 100 0\_HighCH20300-1745



Band4 20MHz\_16-QAM 100 0\_HighCH20300-1745



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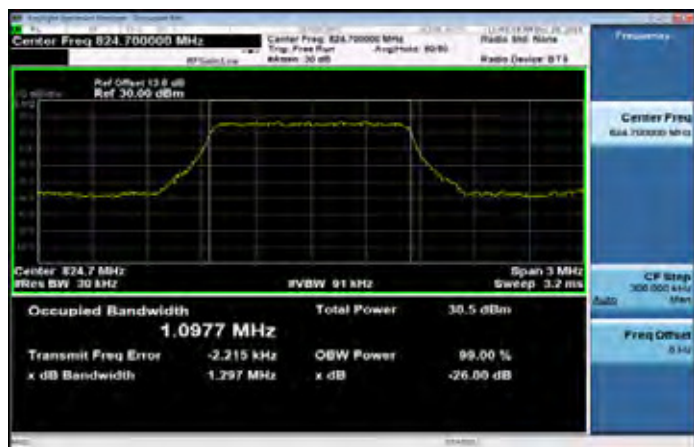
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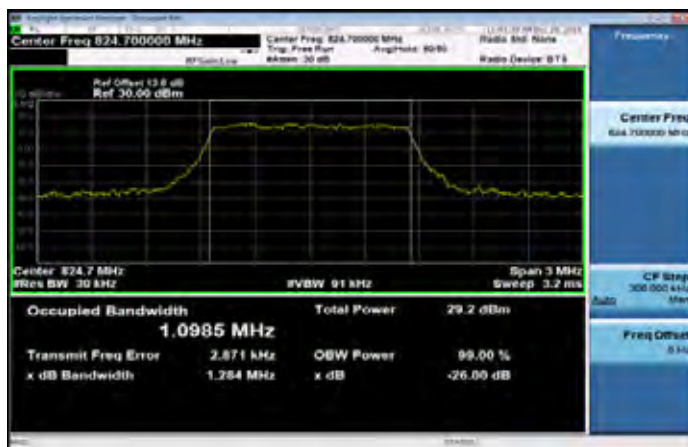
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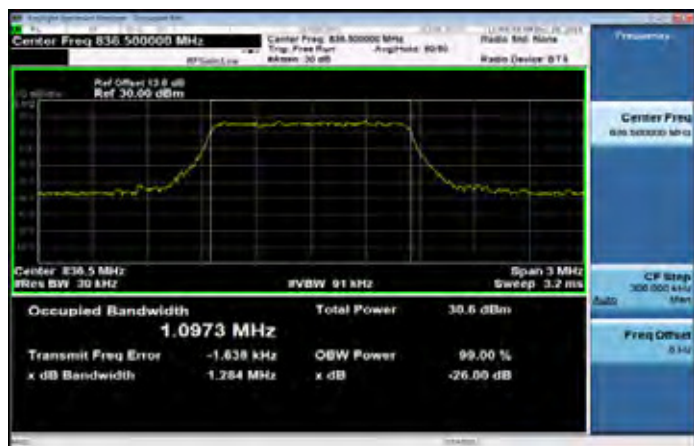
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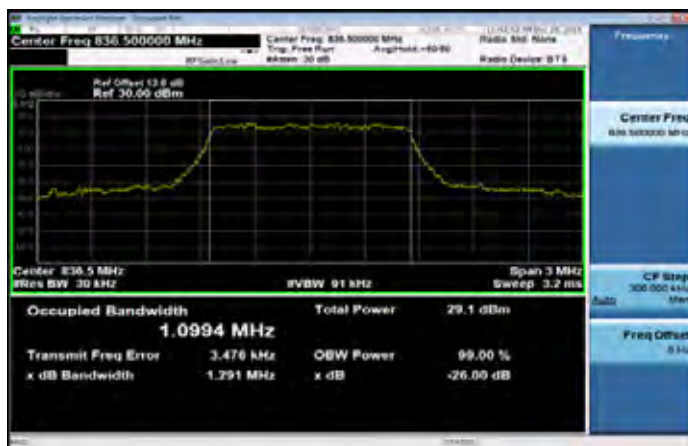
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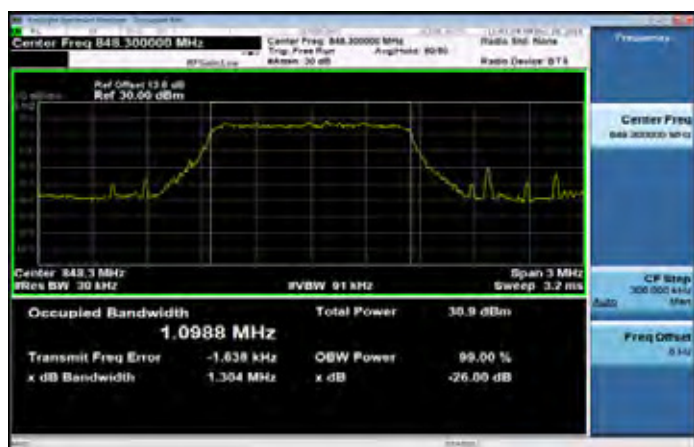
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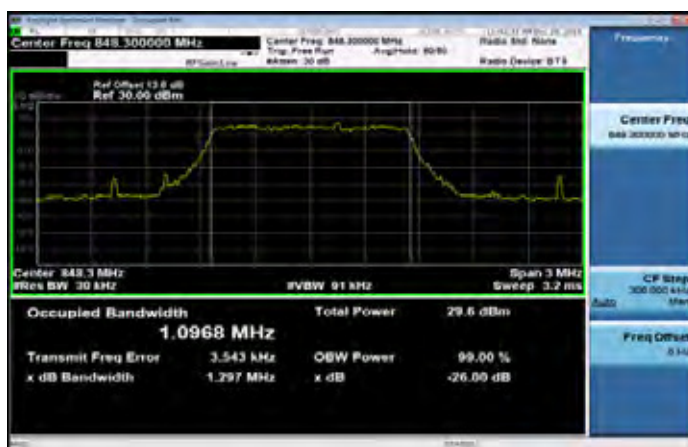
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Band5 1.4MHz\_QPSK 6 0\_HighCH20643-848.3



Band5 1.4MHz\_16-QAM 6 0\_HighCH20643-848.3



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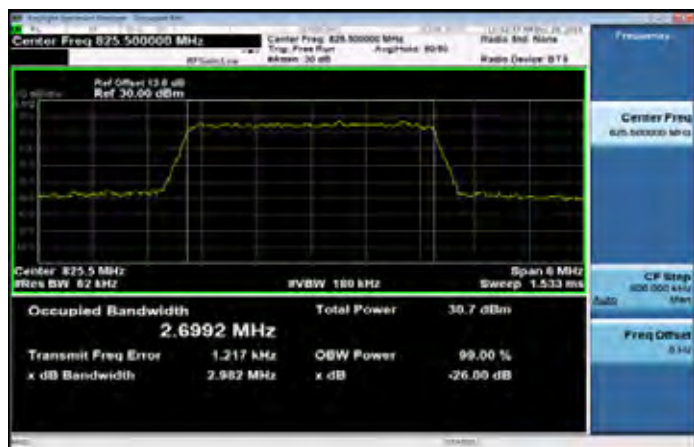
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Band5 3MHz\_QPSK 15 0\_LowCH20415-825.5



Band5 3MHz\_16-QAM 15 0\_LowCH20415-825.5



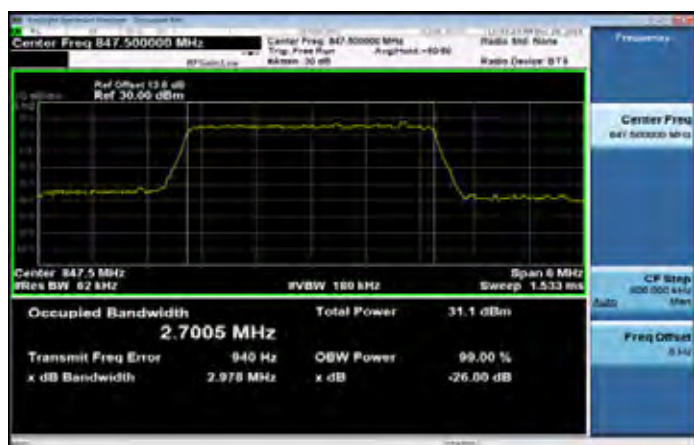
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Band5 3MHz\_16-QAM 15 0\_MidCH20525-836.5



Band5 3MHz\_QPSK 15 0\_HighCH20635-847.5



Band5 3MHz\_16-QAM 15 0\_HighCH20635-847.5



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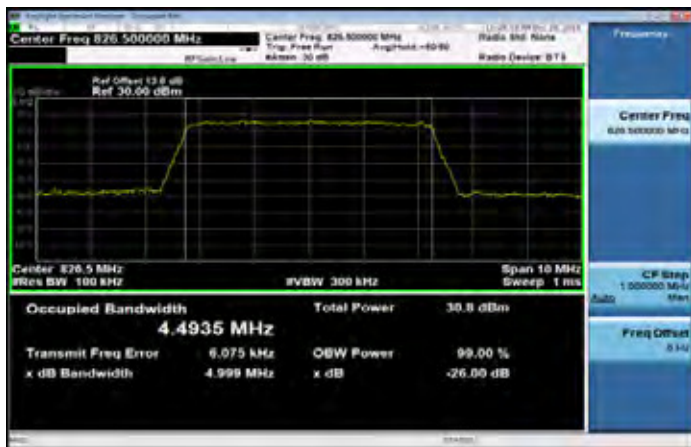
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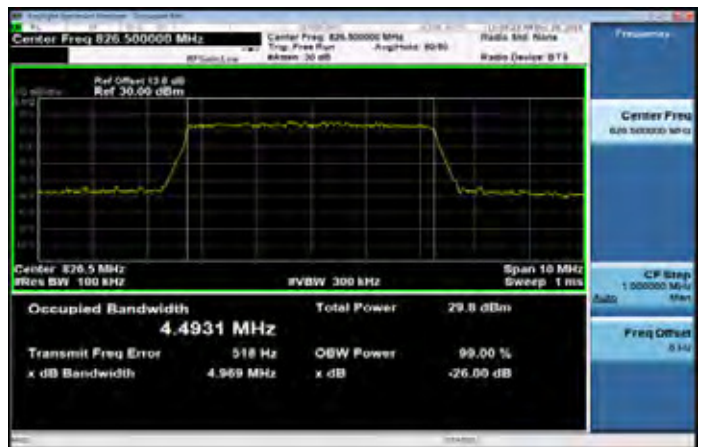
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Band5 5MHz\_QPSK 25 0\_LowCH20425-826.5



Band5 5MHz\_16-QAM 25 0\_LowCH20425-826.5



Band5 5MHz\_QPSK 25 0\_MidCH20525-836.5



Band5 5MHz\_16-QAM 25 0\_MidCH20525-836.5



Band5 5MHz\_QPSK 25 0\_HighCH20625-846.5



Band5 5MHz\_16-QAM 25 0\_HighCH20625-846.5



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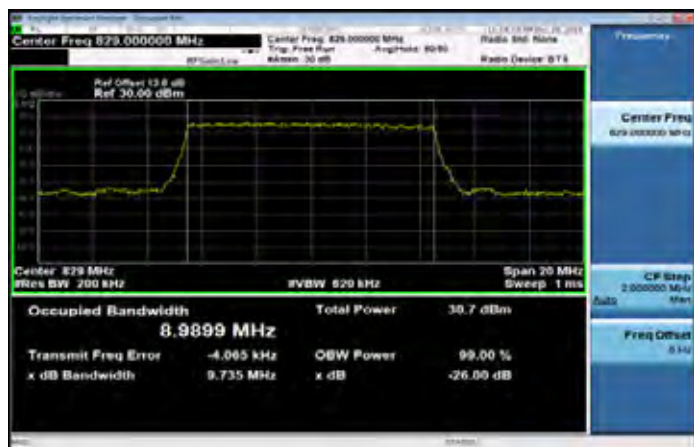
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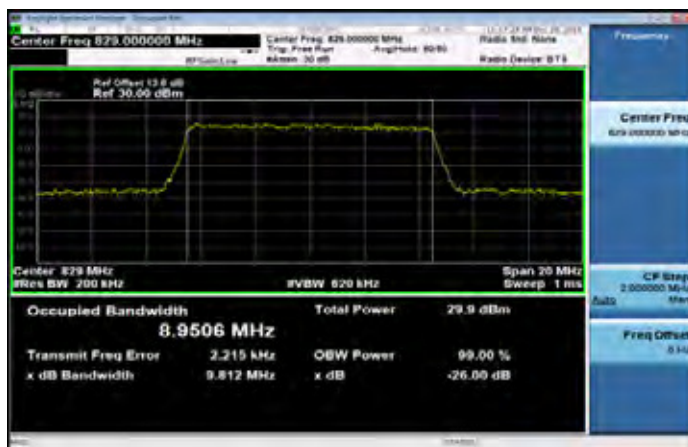
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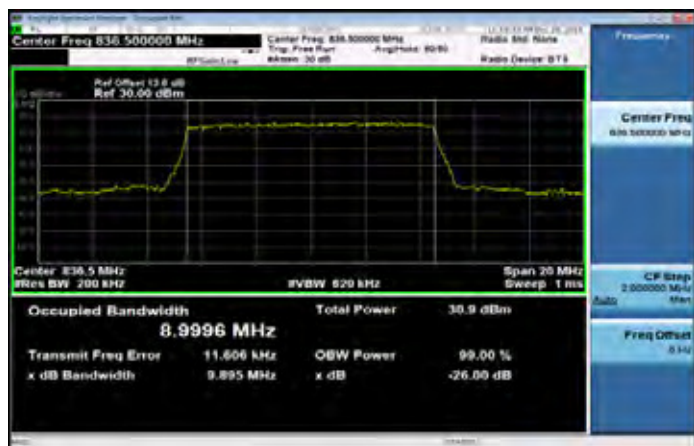
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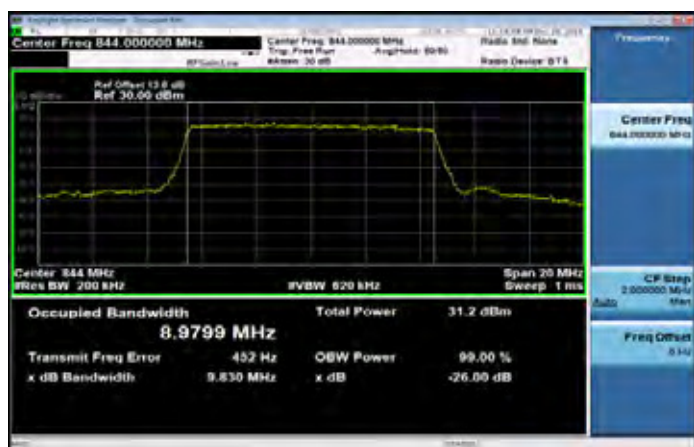
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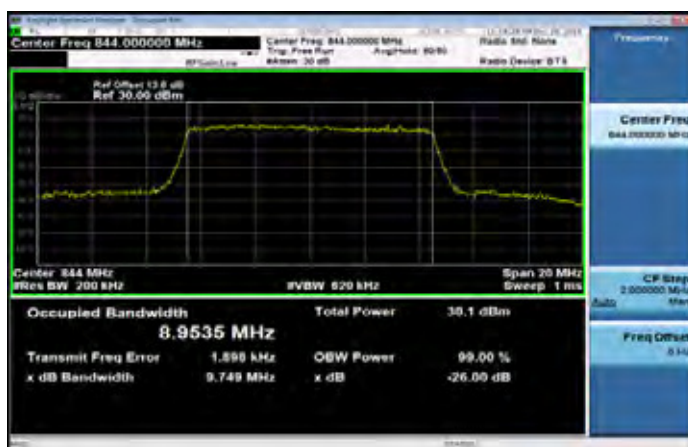
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Band5 10MHz\_QPSK 50 0\_HighCH20600-844



Band5 10MHz\_16-QAM 50 0\_HighCH20600-844



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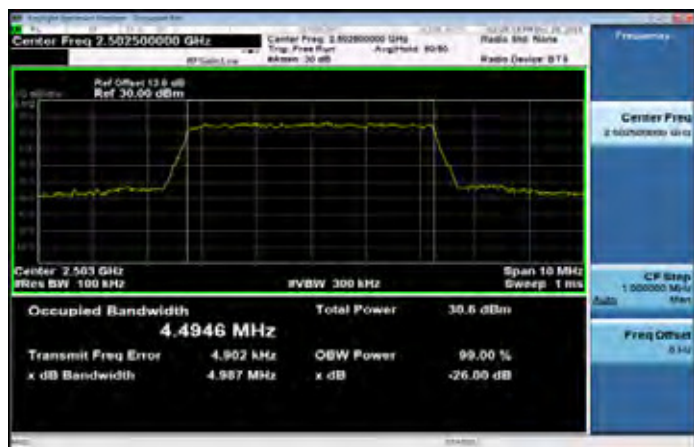
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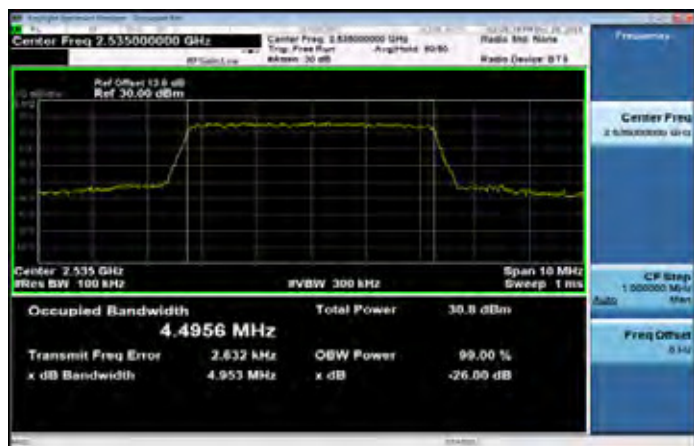
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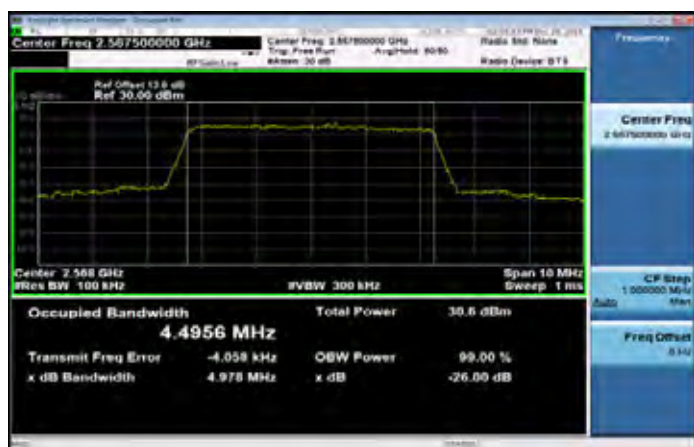
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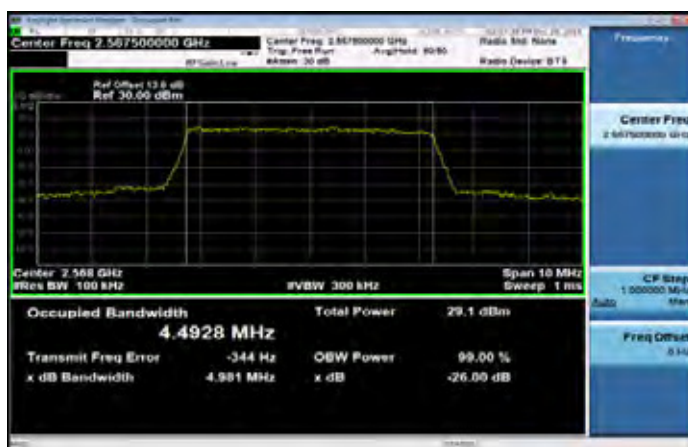
Band7 5MHz\_16-QAM 25 0\_MidCH21100-2535



Band7 5MHz\_QPSK 25 0\_HighCH21425-2567.5



Band7 5MHz\_16-QAM 25 0\_HighCH21425-2567.5



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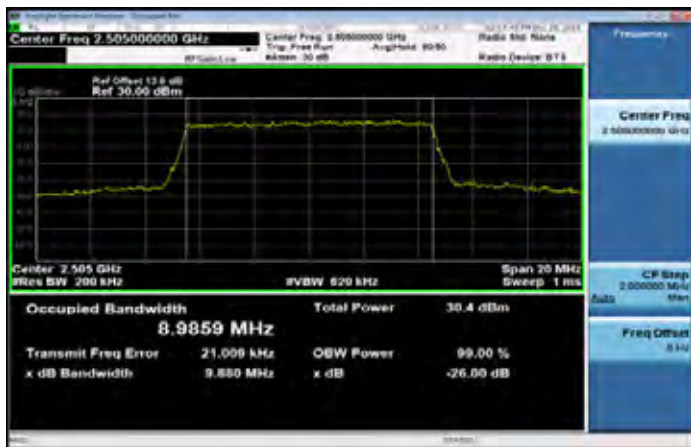
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Band7 10MHz\_QPSK 50 0\_LowCH20800-2505



Band7 10MHz\_16-QAM 50 0\_LowCH20800-2505



Band7 10MHz\_QPSK 50 0\_MidCH21100-2535



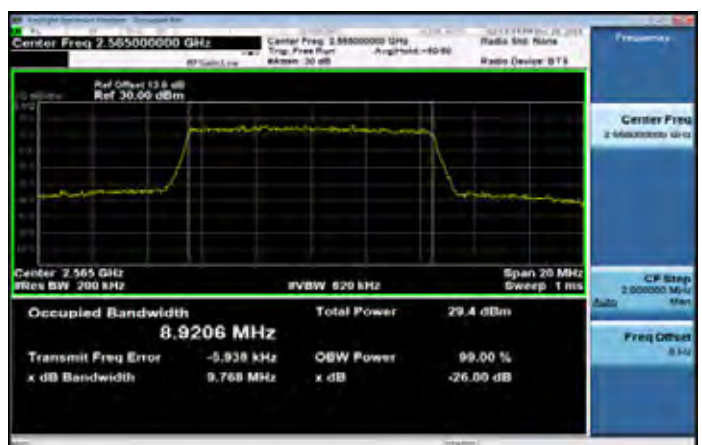
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Band7 10MHz\_QPSK 50 0\_HighCH21400-2565



Band7 10MHz\_16-QAM 50 0\_HighCH21400-2565



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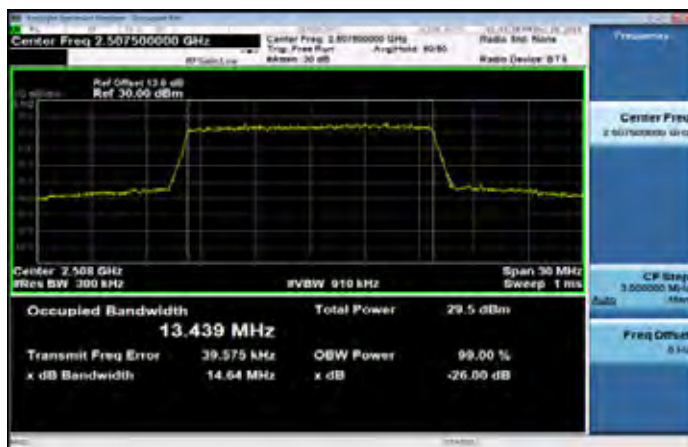
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Band7 15MHz\_16-QAM 75 0\_LowCH20825-2507.5



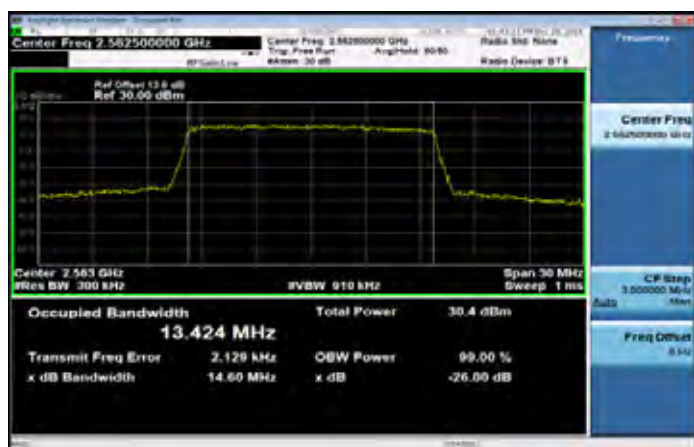
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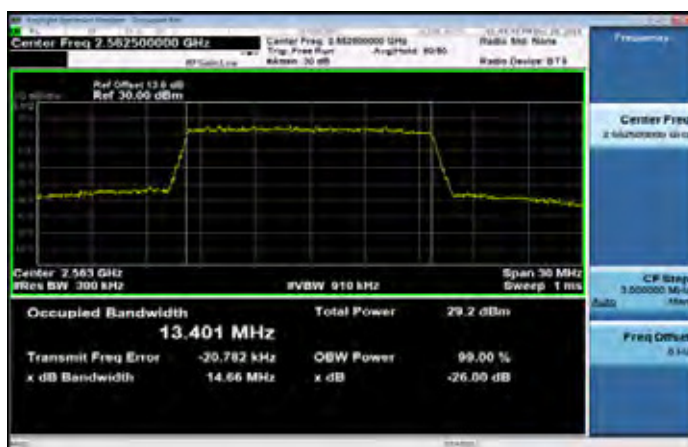
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Band7 15MHz\_QPSK 75 0\_HighCH21375-2562.5



Band7 15MHz\_16-QAM 75 0\_HighCH21375-2562.5



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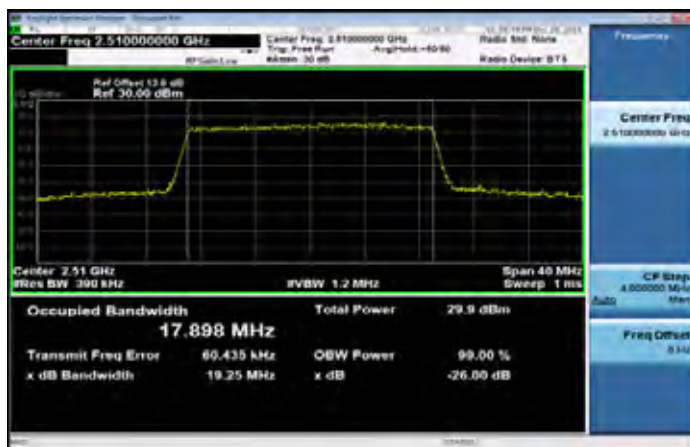
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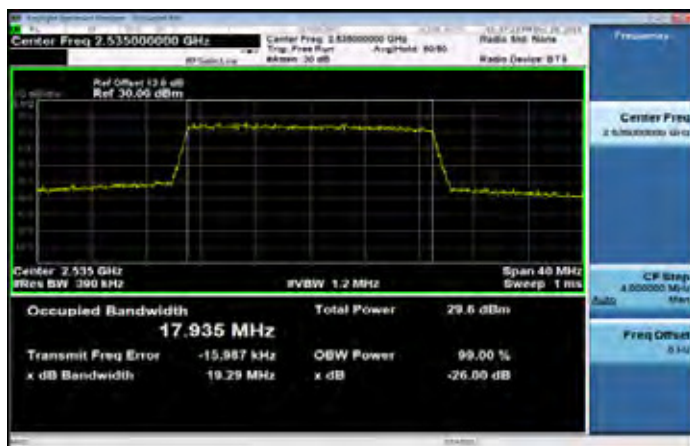
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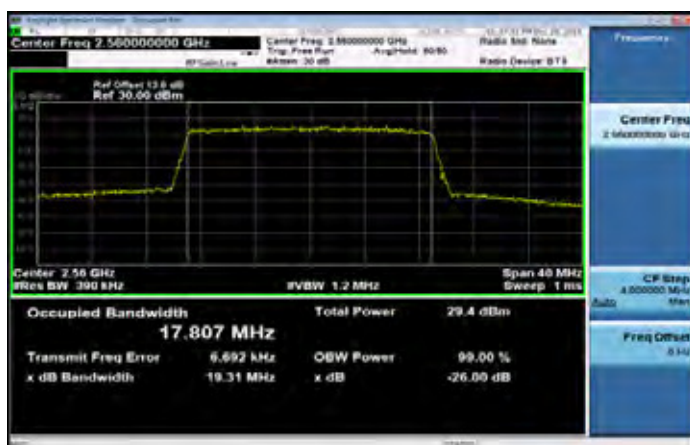
Band7 20MHz\_16-QAM 100 0\_MidCH21100-2535



Band7 20MHz\_QPSK 100 0\_HighCH21350-2560



Band7 20MHz\_16-QAM 100 0\_HighCH21350-2560



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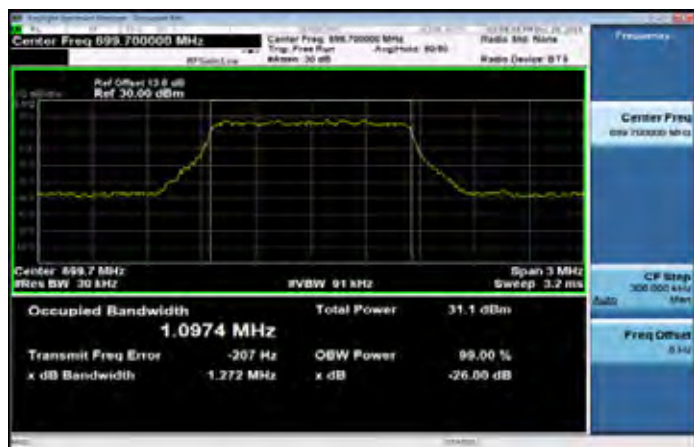
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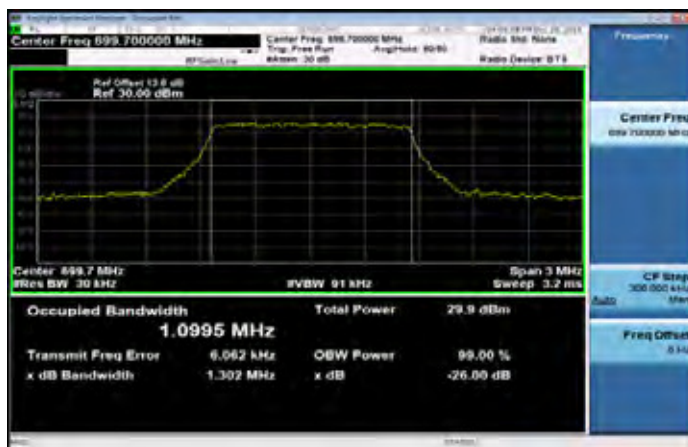
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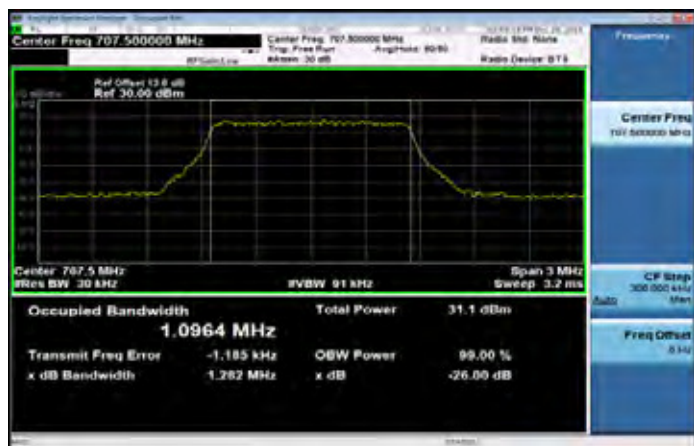
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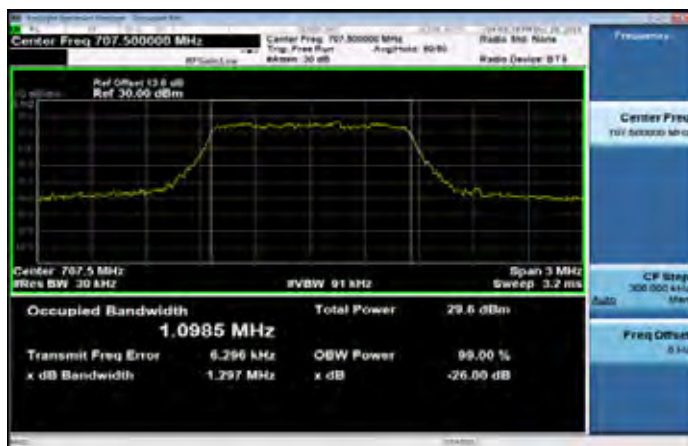
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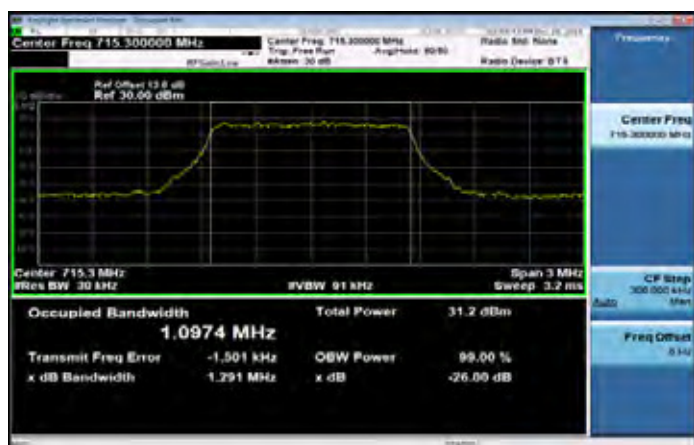
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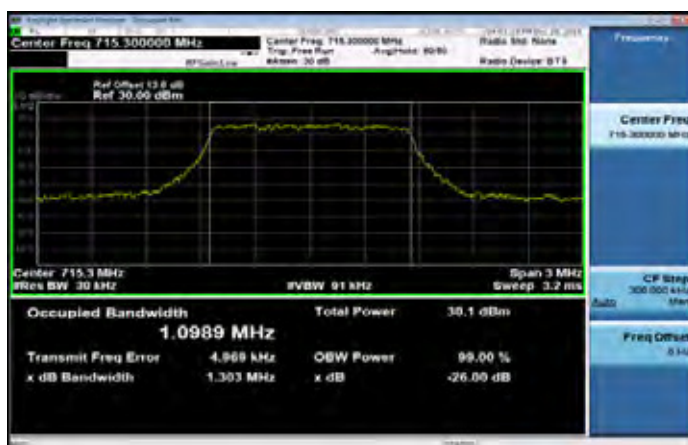
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Band12 1.4MHz\_QPSK 6 0\_HighCH23173-715.3



Band12 1.4MHz\_16-QAM 6 0\_HighCH23173-715.3



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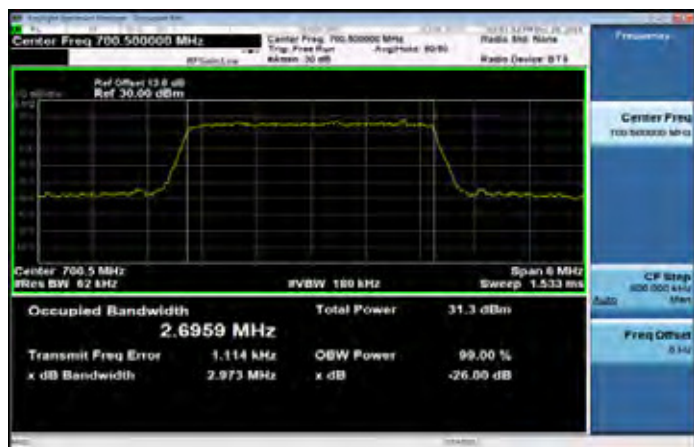
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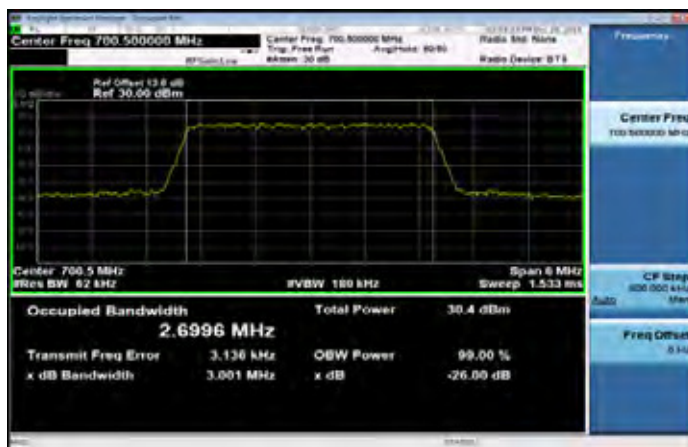
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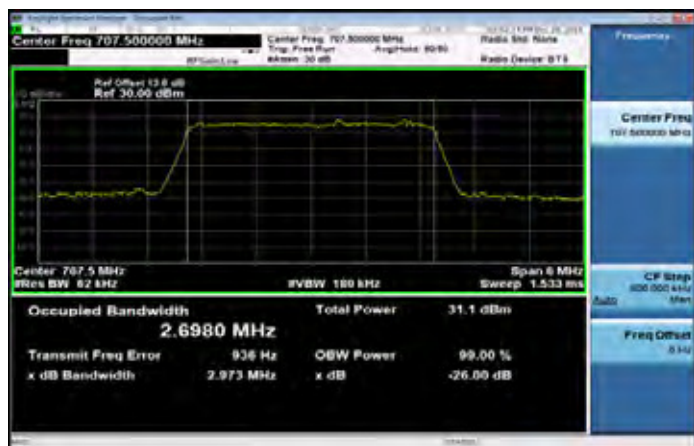
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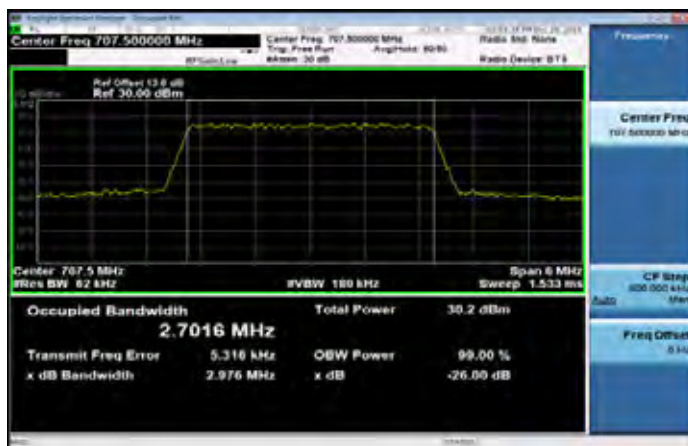
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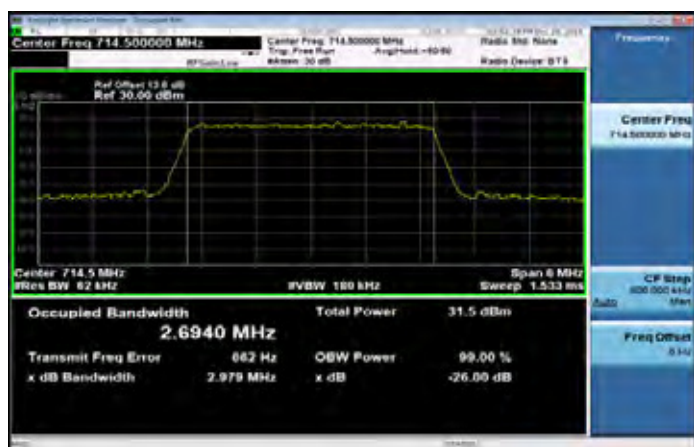
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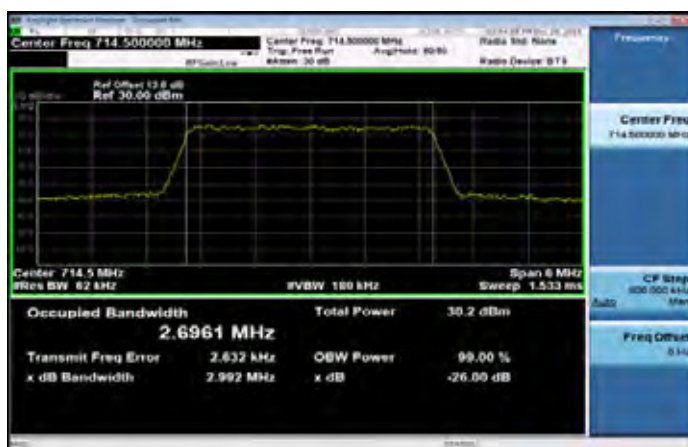
Band12 3MHz\_16-QAM 15 0\_MidCH23095-707.5



Band12 3MHz\_QPSK 15 0\_HighCH23165-714.5



Band12 3MHz\_16-QAM 15 0\_HighCH23165-714.5



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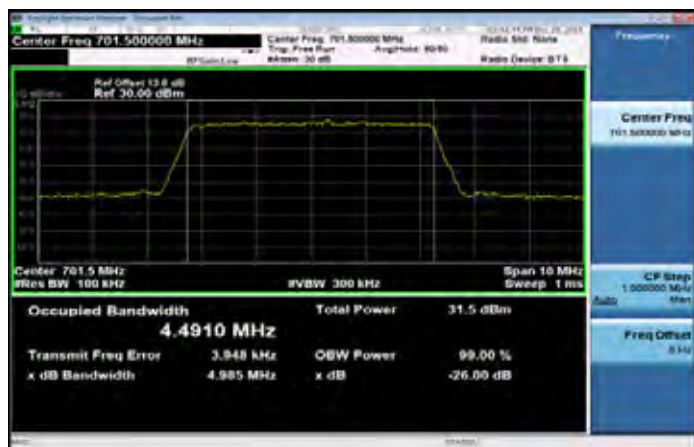
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Band12 5MHz\_QPSK 25 0\_LowCH23035-701.5



Band12 5MHz\_16-QAM 25 0\_LowCH23035-701.5



Band12 5MHz\_QPSK 25 0\_MidCH23095-707.5



Band12 5MHz\_16-QAM 25 0\_MidCH23095-707.5



Band12 5MHz\_QPSK 25 0\_HighCH23155-713.5



Band12 5MHz\_16-QAM 25 0\_HighCH23155-713.5



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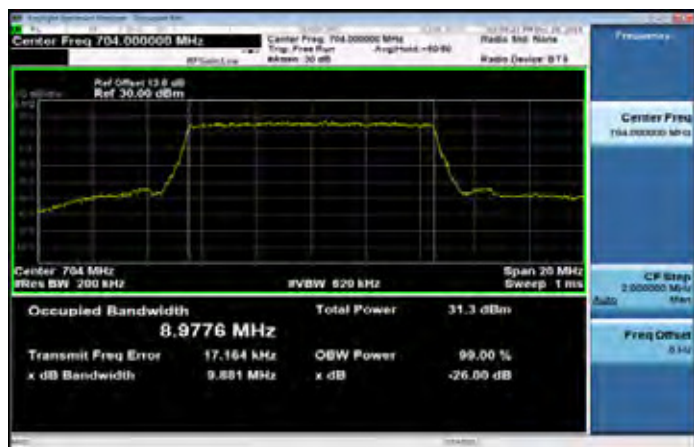
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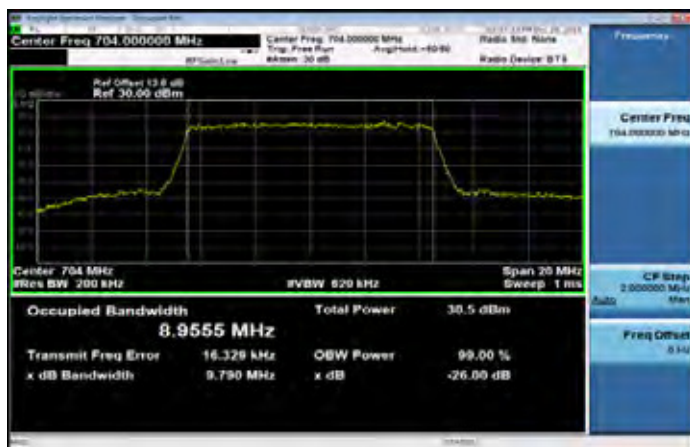
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Band12 10MHz\_QPSK 50 0\_LowCH23060-704



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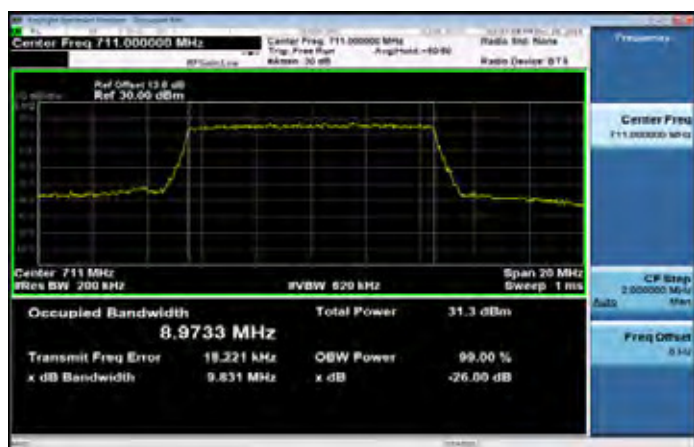
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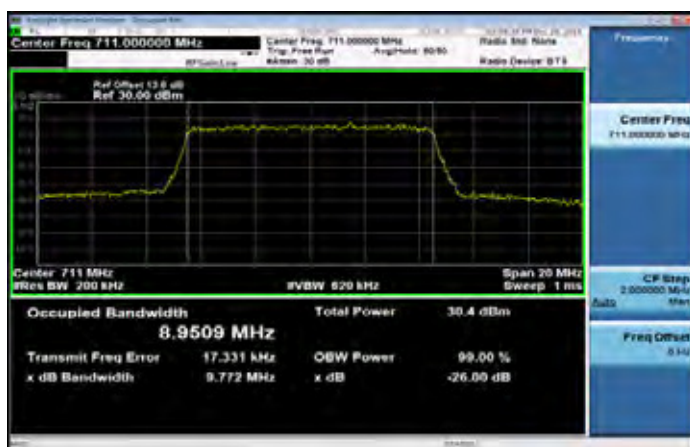
Band12 10MHz\_16-QAM 50 0\_MidCH23095-707.5



Band12 10MHz\_QPSK 50 0\_HighCH23130-711



Band12 10MHz\_16-QAM 50 0\_HighCH23130-711



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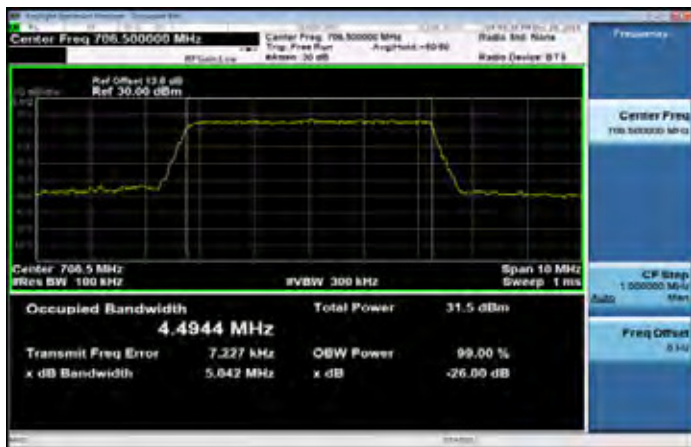
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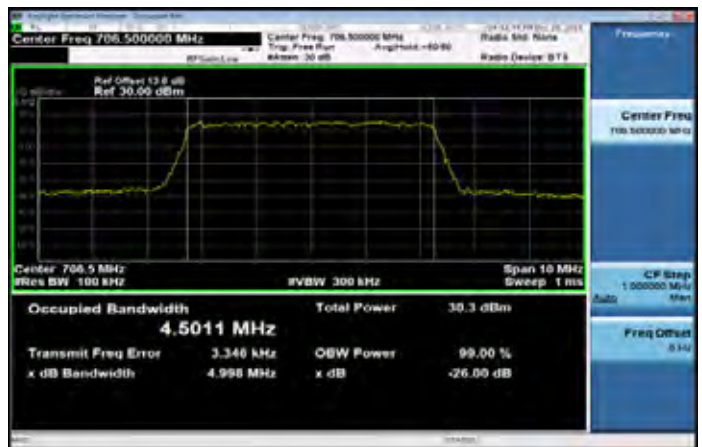
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Band17 5MHz\_QPSK 25 0\_LowCH23755-706.5



Band17 5MHz\_16-QAM 25 0\_LowCH23755-706.5



Band17 5MHz\_QPSK 25 0\_MidCH23790-710



Band17 5MHz\_16-QAM 25 0\_MidCH23790-710



Band17 5MHz\_QPSK 25 0\_HighCH23825-713.5



Band17 5MHz\_16-QAM 25 0\_HighCH23825-713.5



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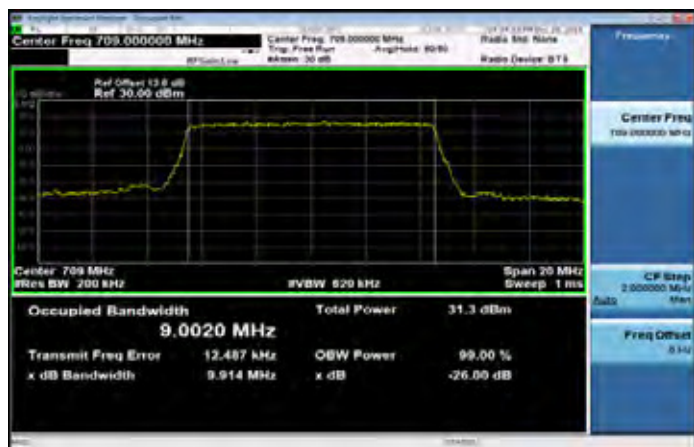
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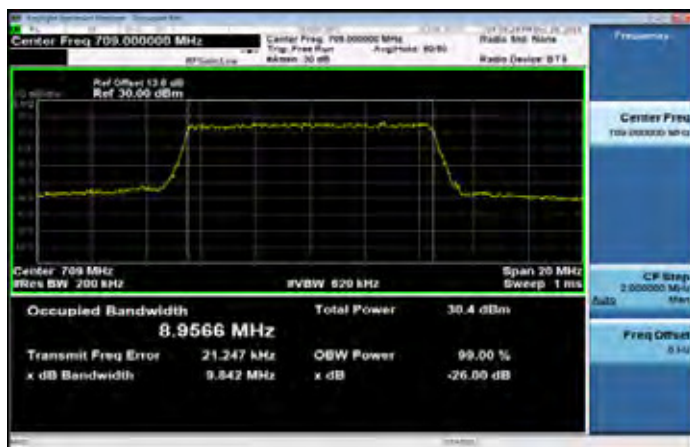
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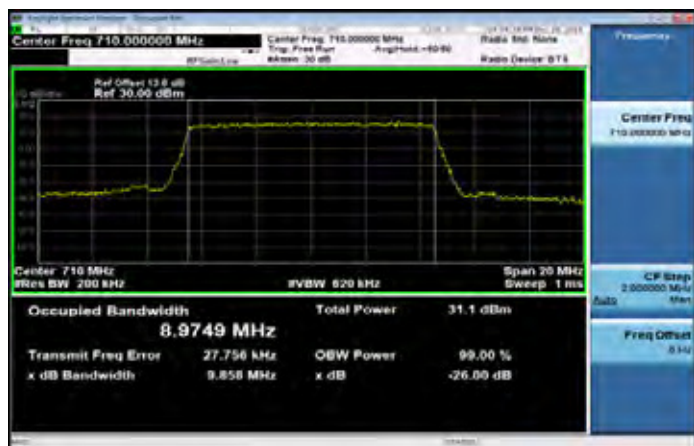
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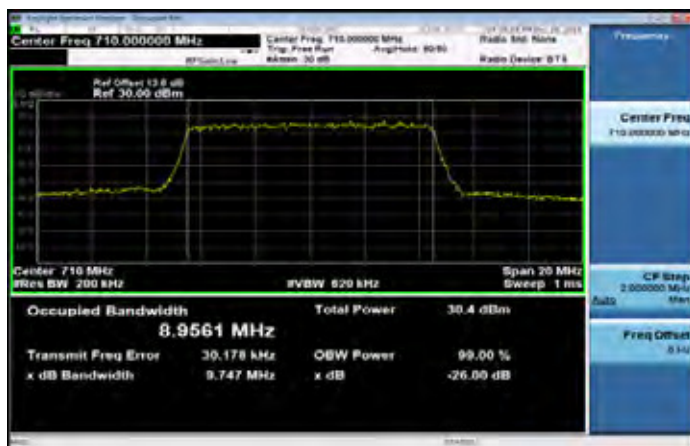
Band17 10MHz\_16-QAM 50 0\_LowCH23780-709



Band17 10MHz\_QPSK 50 0\_MidCH23790-710



Band17 10MHz\_16-QAM 50 0\_MidCH23790-710



Band17 10MHz\_QPSK 50 0\_HighCH23800-711



Band17 10MHz\_16-QAM 50 0\_HighCH23800-711



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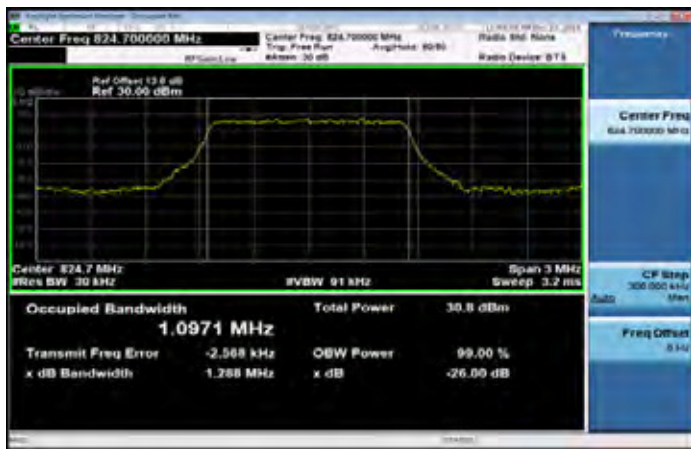
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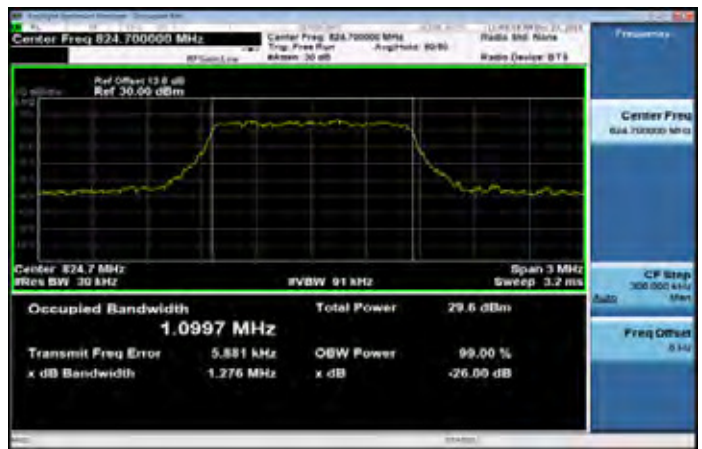
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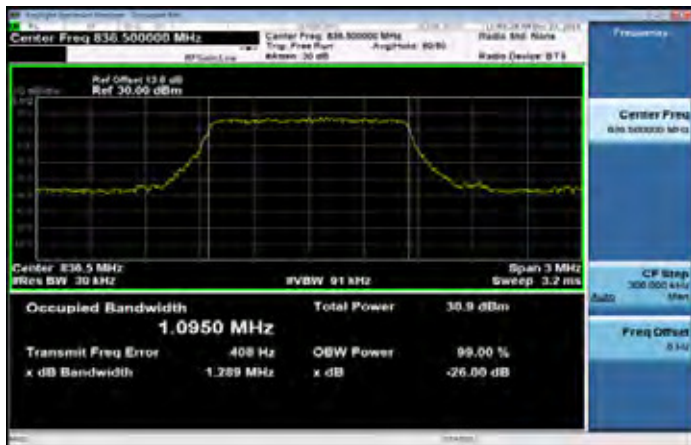
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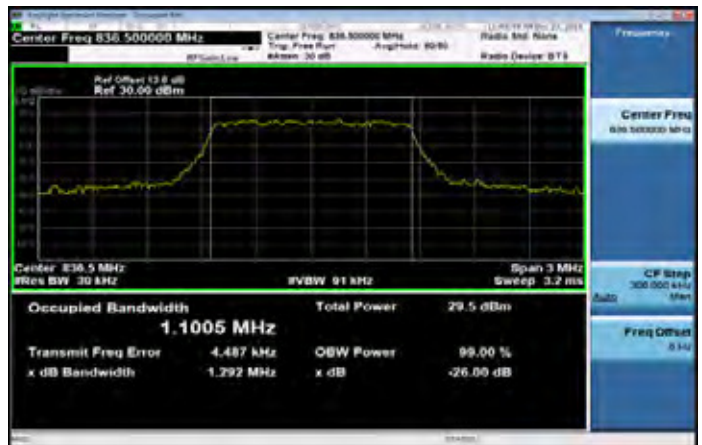
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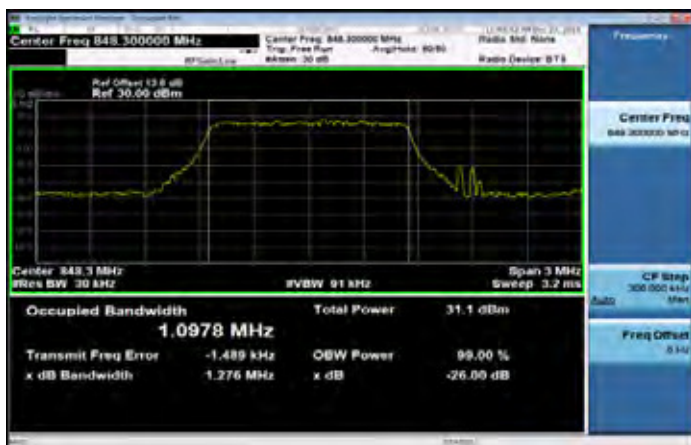
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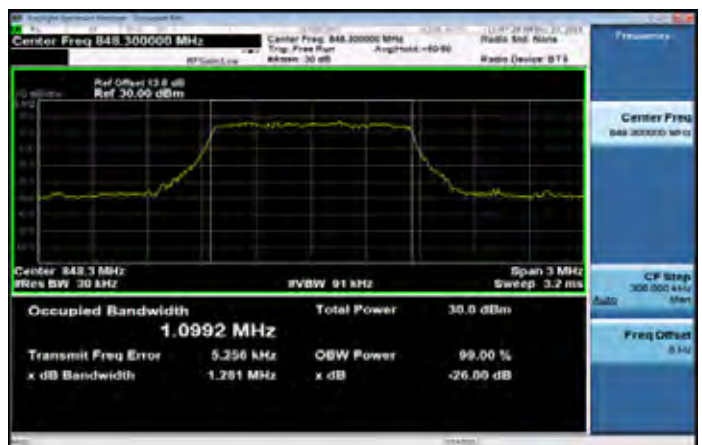
Band26 1.4MHz\_16-QAM 6 0\_MidCH26915-836.5



Band26 1.4MHz\_QPSK 6 0\_HighCH27033-848.3



Band26 1.4MHz\_16-QAM 6 0\_HighCH27033-848.3



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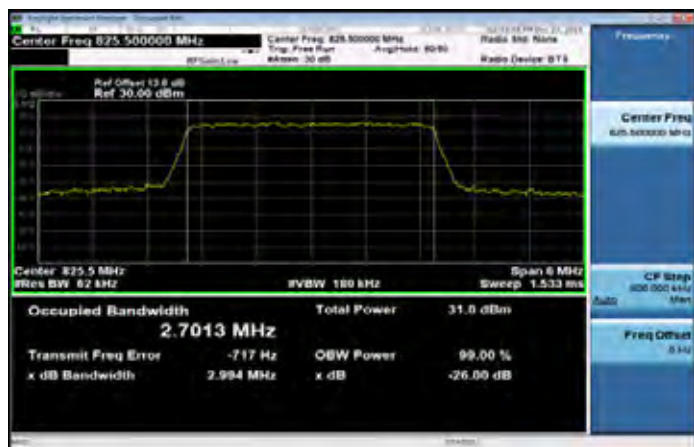
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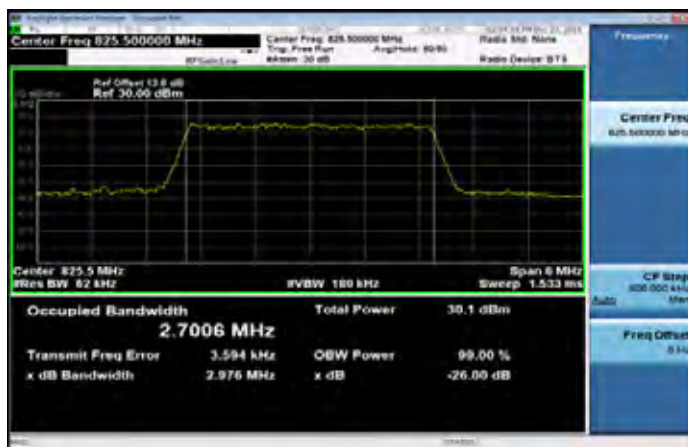
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Band26 3MHz\_QPSK 15 0\_LowCH26805-825.5



Band26 3MHz\_16-QAM 15 0\_Low CH26805-825.5



Band26 3MHz\_QPSK 15 0\_MidCH26915-836.5



Band26 3MHz\_16-QAM 15 0\_Mid CH26915-836.5



Band26 3MHz\_QPSK 15 0\_HighCH27025-847.5



Band26 3MHz\_16-QAM 15 0\_HighCH27025-847.5



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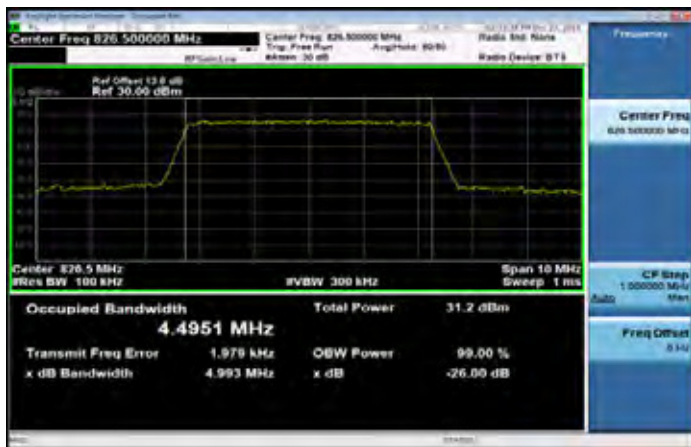
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Band26 5MHz\_QPSK 25 0\_LowCH26815-826.5



Band26 5MHz\_16-QAM 25 0\_LowCH26815-826.5



Band26 5MHz\_QPSK 25 0\_MidCH26915-836.5



Band26 5MHz\_16-QAM 25 0\_MidCH26915-836.5



Band26 5MHz\_QPSK 25 0\_HighCH27015-846.5



Band26 5MHz\_16-QAM 25 0\_HighCH27015-846.5



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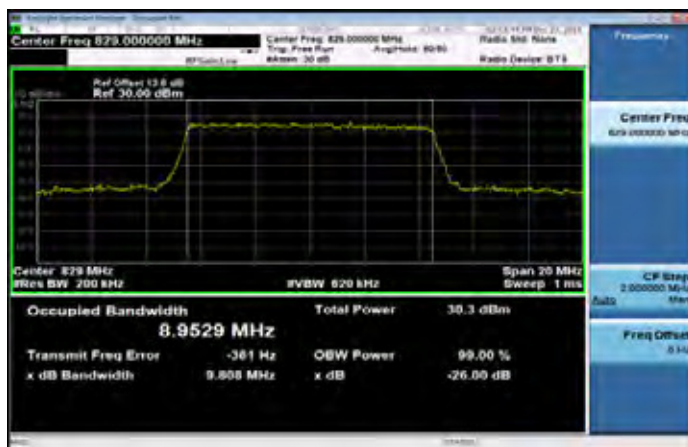
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Band26 10MHz\_QPSK 50 0\_LowCH26840-829



Band26 10MHz\_16-QAM 50 0\_LowCH26840-829



Band26 10MHz\_QPSK 50 0\_MidCH26915-831.5



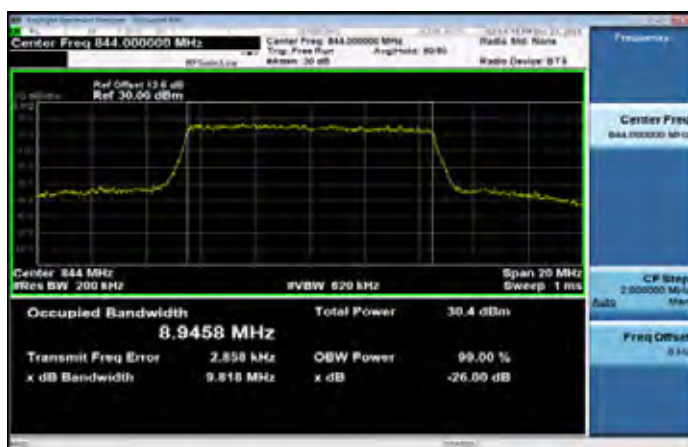
Band26 10MHz\_16-QAM 50 0\_MidCH26915-831.5



Band26 10MHz\_QPSK 50 0\_HighCH26990-844



Band26 10MHz\_16-QAM 50 0\_HighCH26990-844



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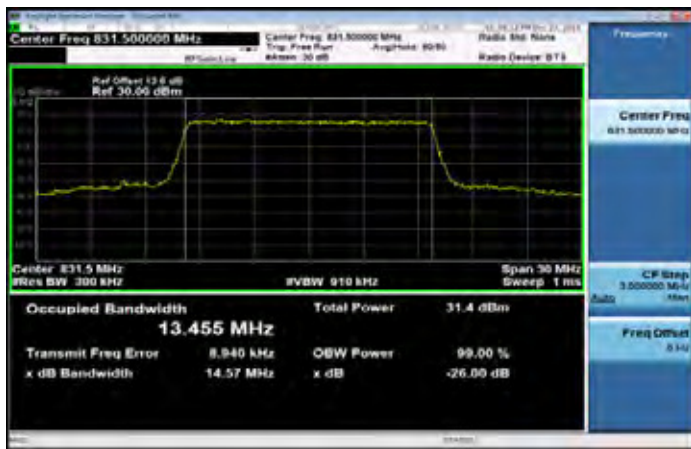
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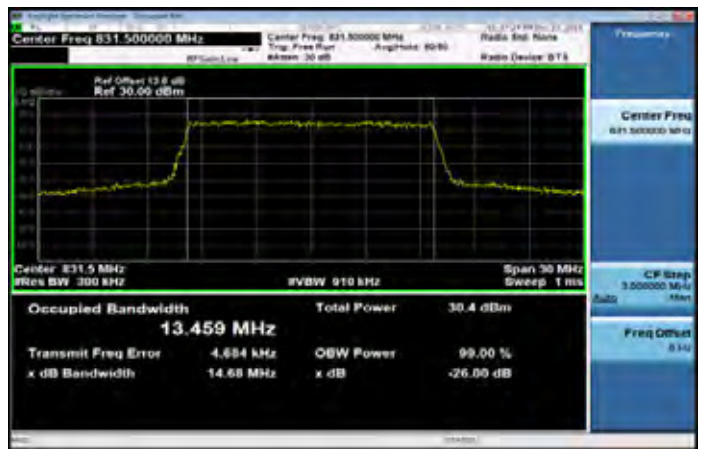
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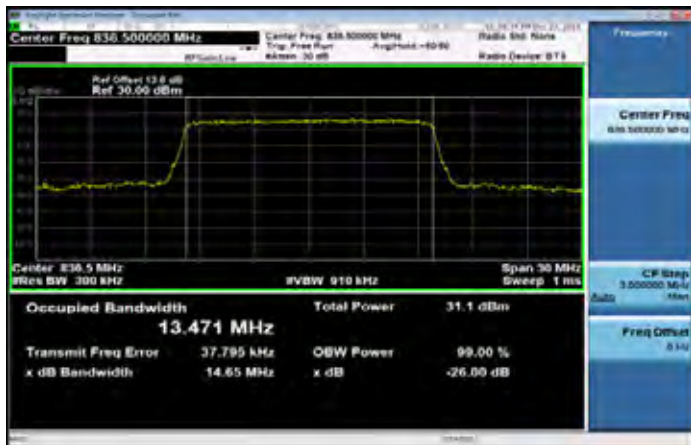
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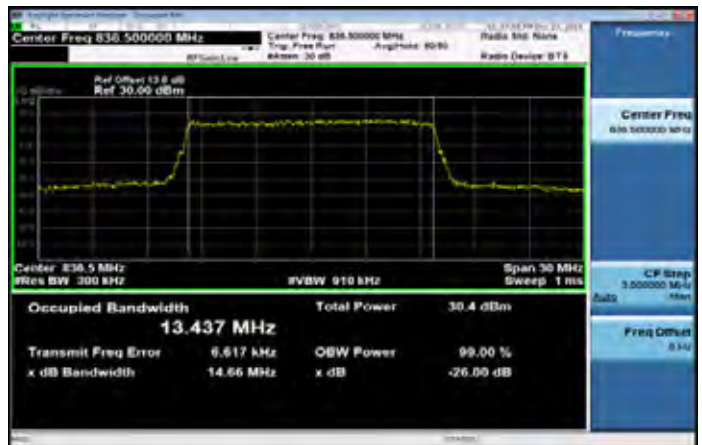
Band26 15MHz\_16-QAM 75 0\_Low



Band26 15MHz\_QPSK 75 0\_Mid



Band26 15MHz\_16-QAM 75 0\_Mid



Band26 15MHz\_QPSK 75 0\_High



Band26 15MHz\_16-QAM 75 0\_High



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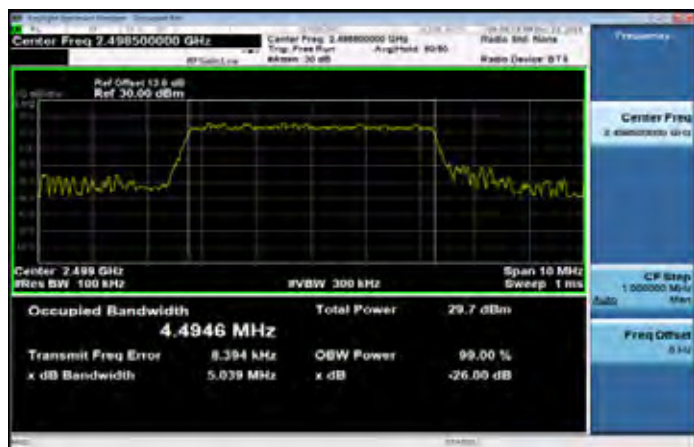
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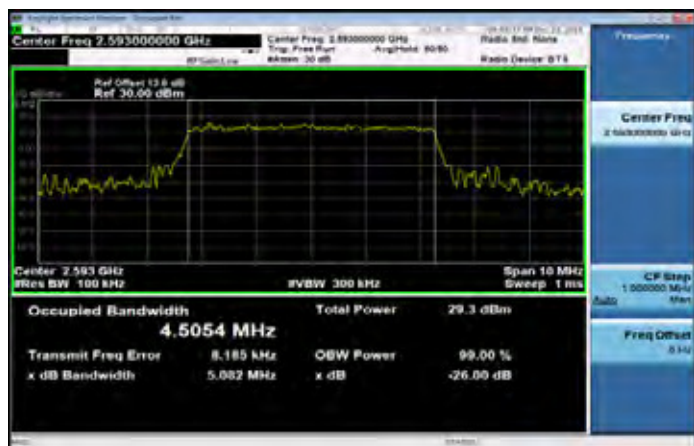
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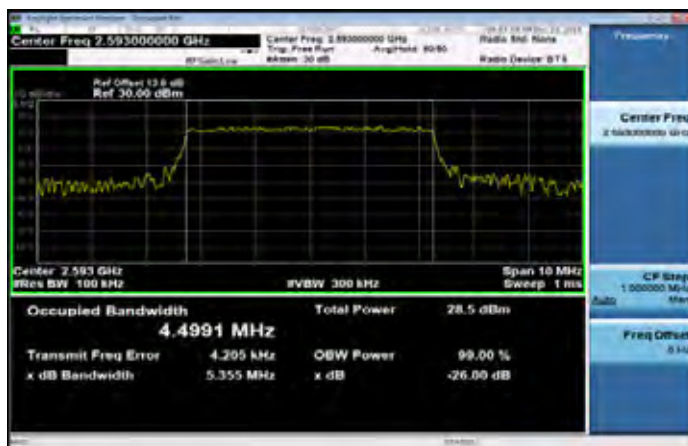
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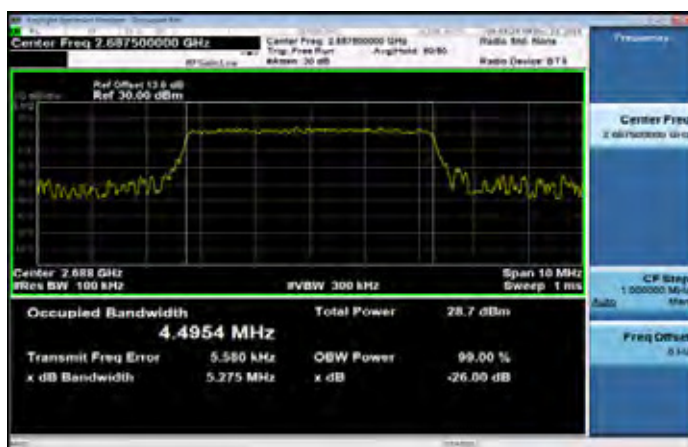
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Band41 5MHz\_QPSK 25 0\_HighCH41215-2652.5



Band41 5MHz\_16-QAM 25 0\_HighCH41215-2652.5



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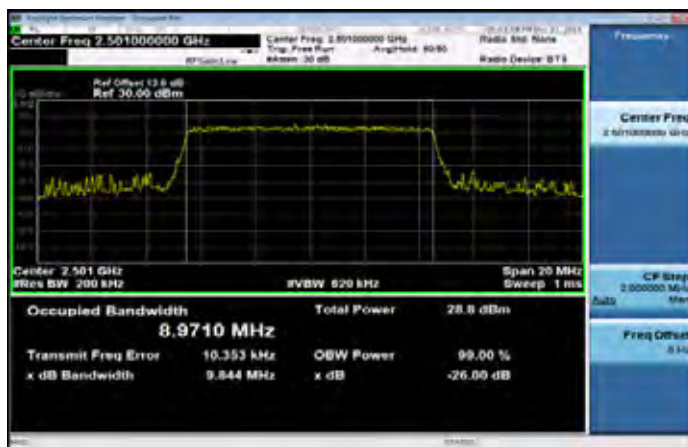
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Band41 10MHz\_QPSK 50 0\_LowCH40190-2550



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Band41 10MHz\_QPSK 50 0\_MidCH40690-2600



Band41 10MHz\_16-QAM 50 0\_MidCH40690-2600



Band41 10MHz\_QPSK 50 0\_HighCH41190-2650



Band41 10MHz\_16-QAM 50 0\_HighCH41190-2650



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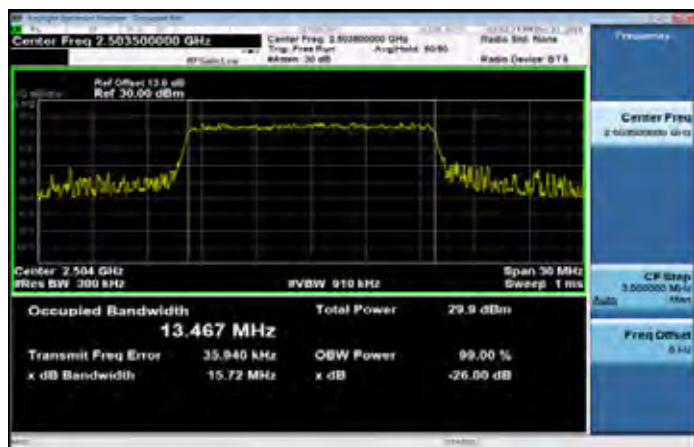
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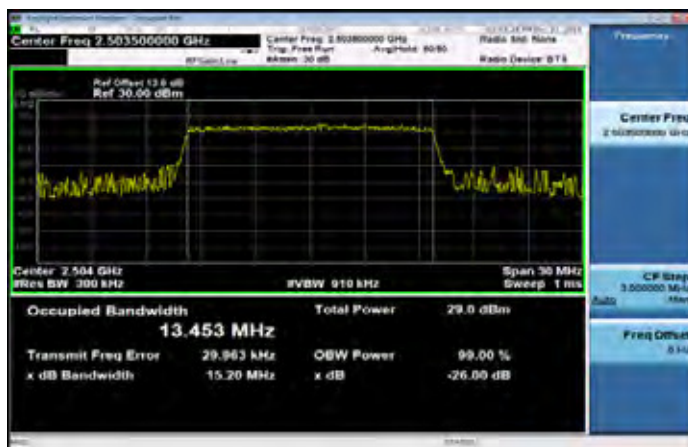
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Band41 15MHz\_QPSK 75 0\_LowCH40215-2552.5



Band41 15MHz\_16-QAM 75 0\_LowCH40215-2552.5



Band41 15MHz\_QPSK 75 0\_MidCH40690-2600



Band41 15MHz\_16-QAM 75 0\_MidCH40690-2600



Band41 15MHz\_QPSK 75 0\_HighCH41165-2647.5



Band41 15MHz\_16-QAM 75 0\_HighCH41165-2647.5



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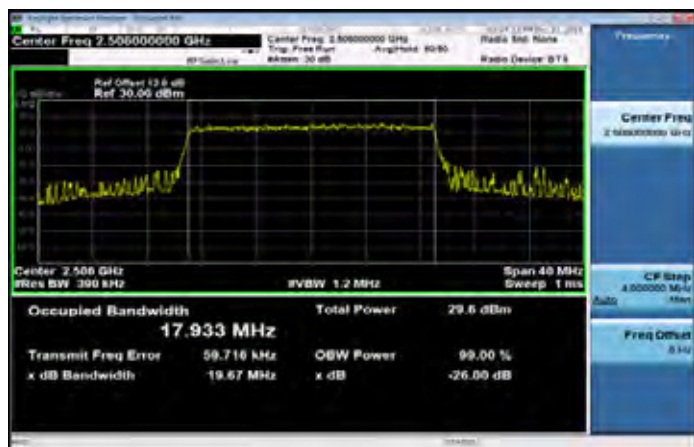
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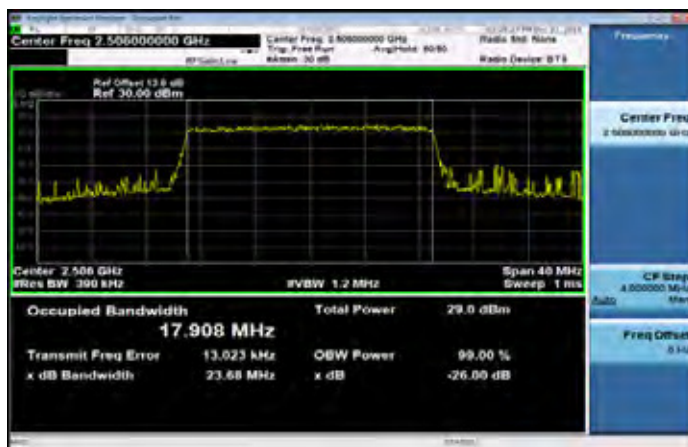
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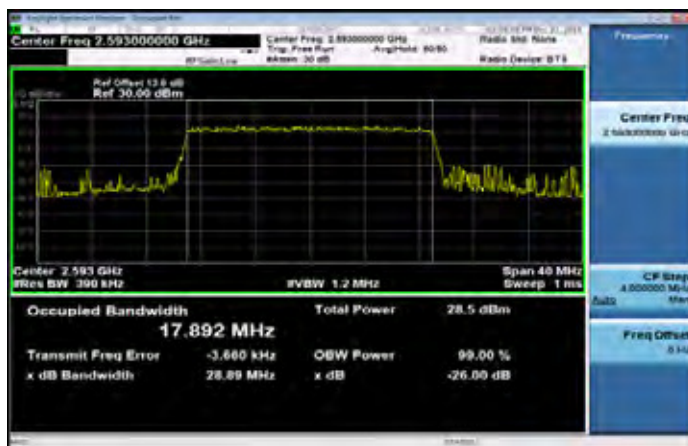
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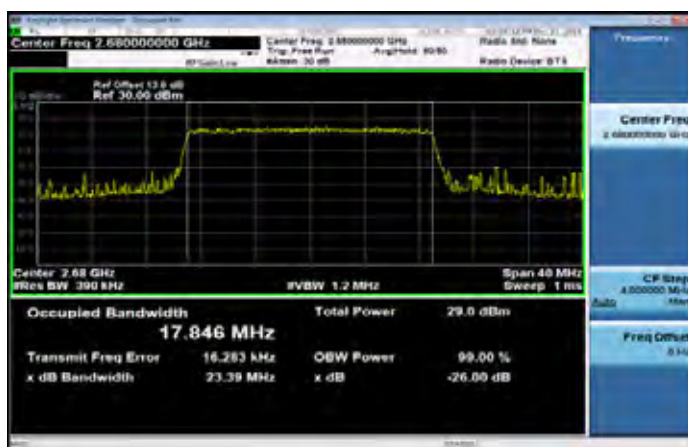
Band41 20MHz\_16-QAM 100 0\_MidCH40690-2600



Band41 20MHz\_QPSK 100 0\_HighCH41140-2645



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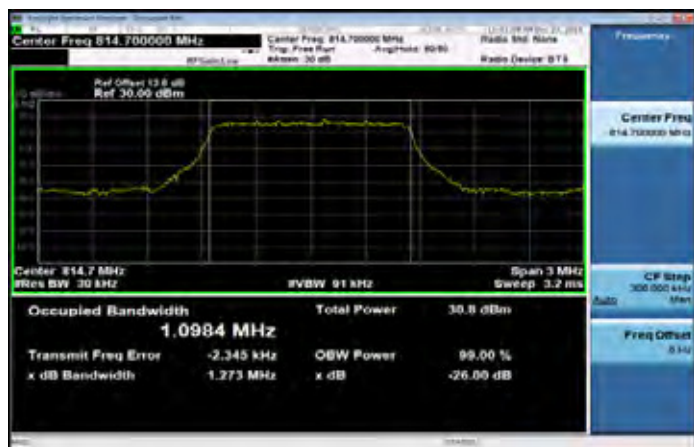
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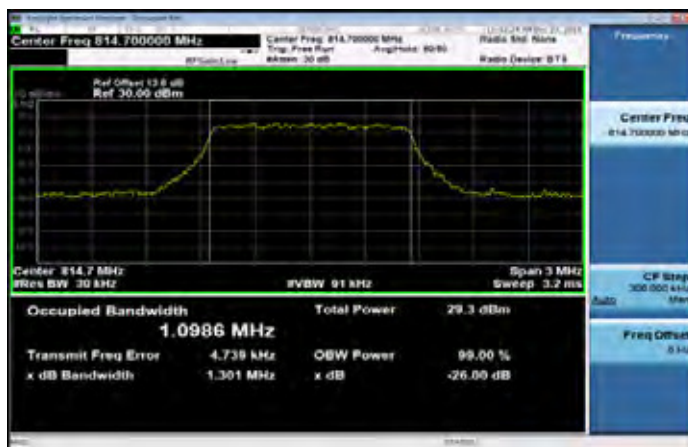
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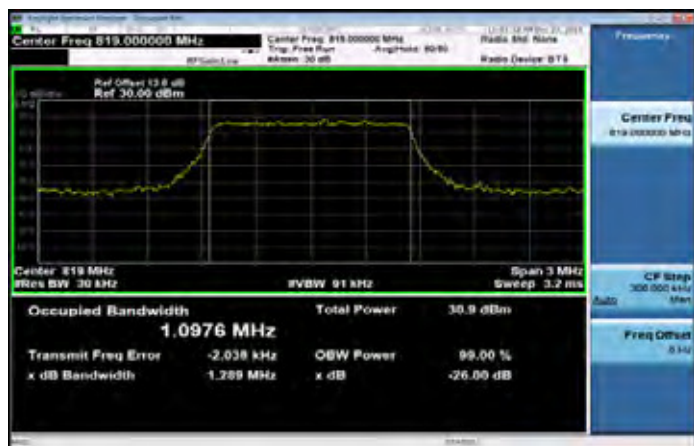
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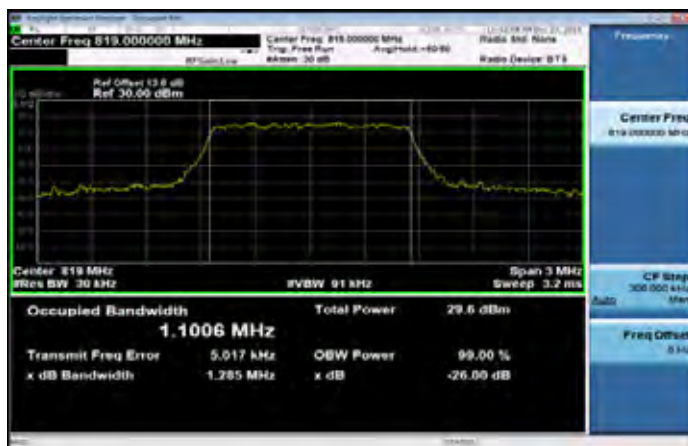
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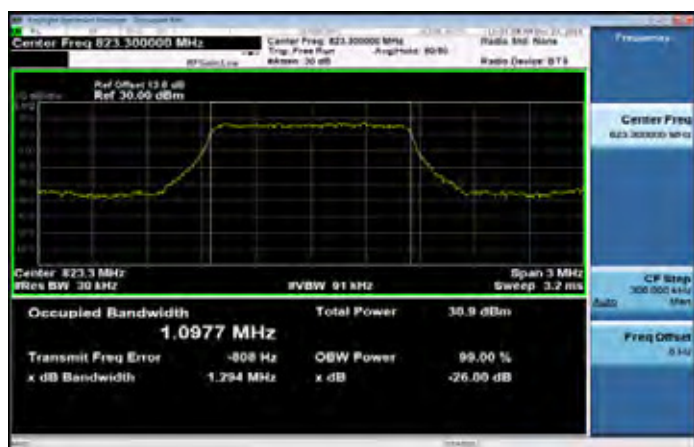
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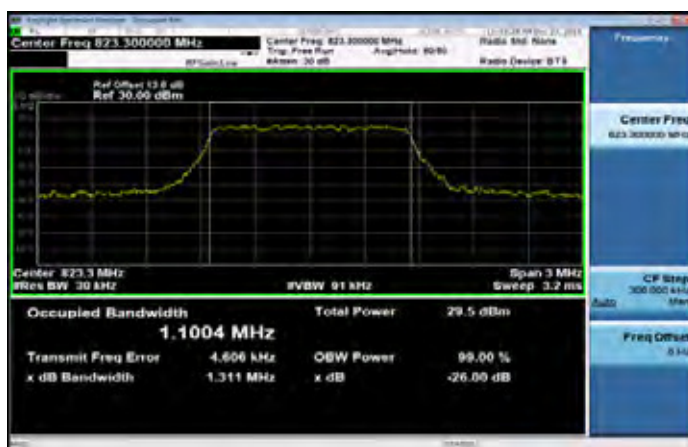
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LTE Band 26 for Part 90S\_1.4M\_QPSK\_HIGH



LTE Band 26 for Part 90S\_1.4M\_16QAM\_HIGH



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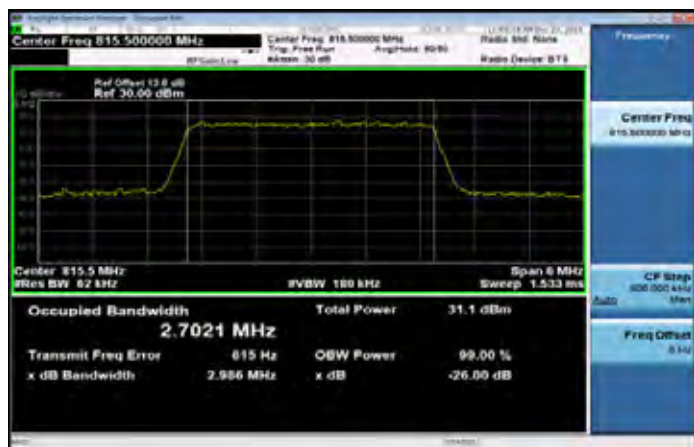
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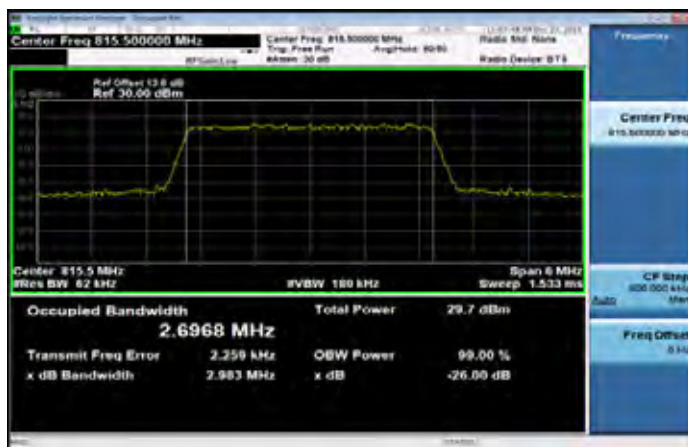
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LTE Band 26 for Part 90S\_3M\_16QAM\_LOW



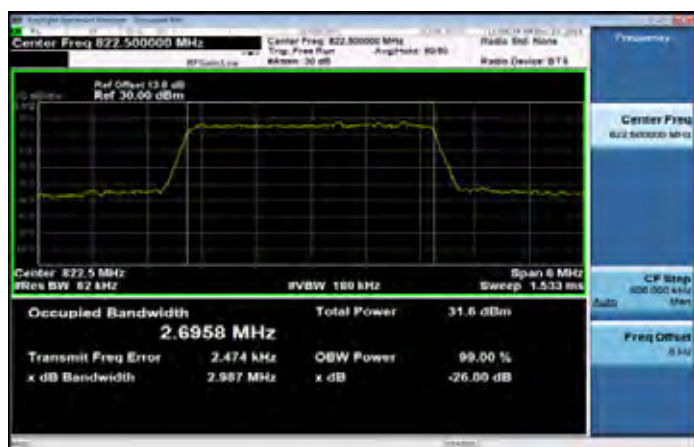
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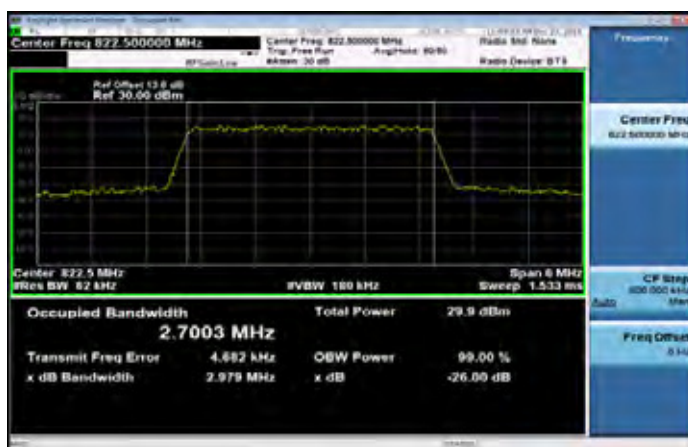
LTE Band 26 for Part 90S\_3M\_16QAM\_MID



LTE Band 26 for Part 90S\_3M\_QPSK\_HIGH



LTE Band 26 for Part 90S\_3M\_16QAM\_HIGH



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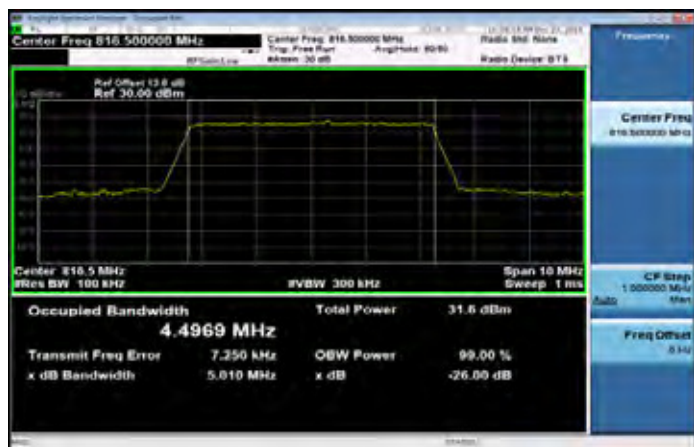
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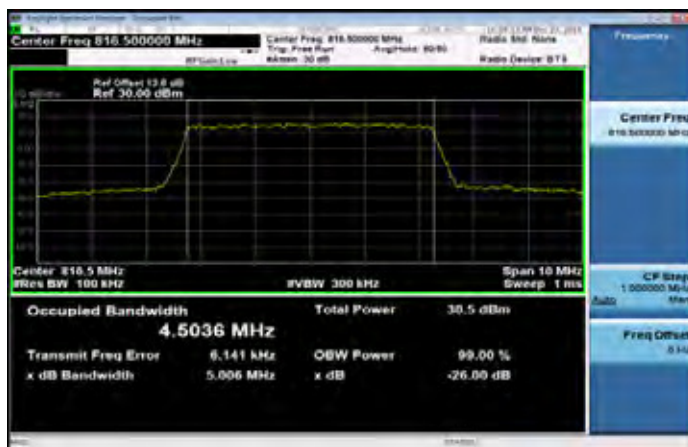
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LTE Band 26 for Part 90S\_5M\_16QAM\_LOW



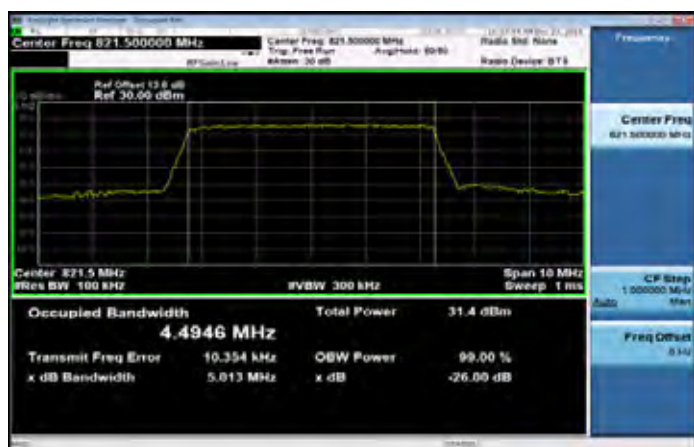
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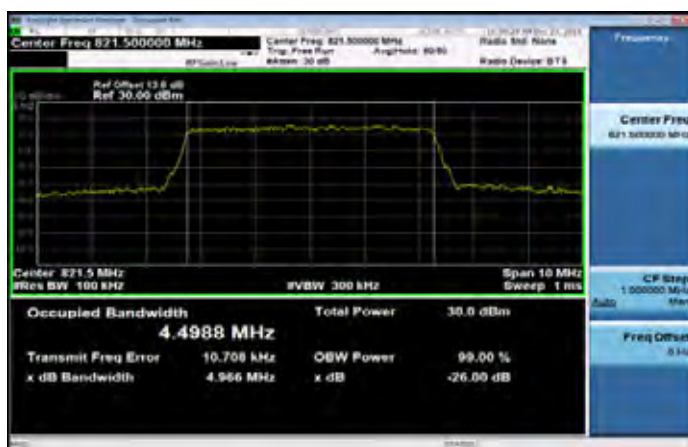
LTE Band 26 for Part 90S\_5M\_16QAM\_MID



LTE Band 26 for Part 90S\_5M\_QPSK\_HIGH



LTE Band 26 for Part 90S\_5M\_16QAM\_HIGH



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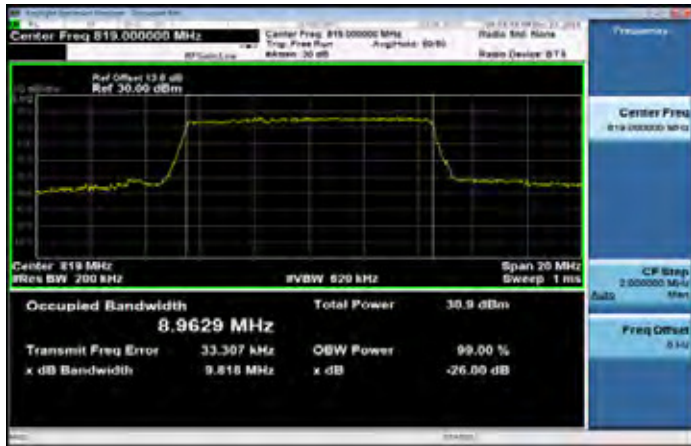
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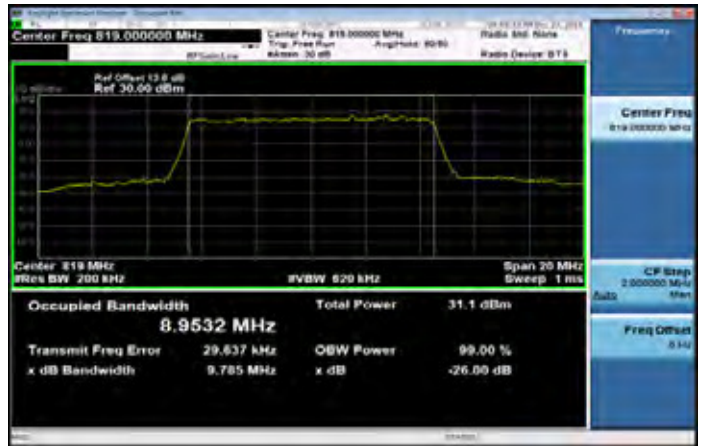
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LTE Band 26 for Part 90S\_10M\_QPSK\_MID



LTE Band 26 for Part 90S\_10M\_16QAM\_MID



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## 9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

### 9.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(g)(h), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

§27.53 (m) (4) shall not be less than  $55 + 10 \log$  (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

FCC §27.53(c) (2) (4)

(c) For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log$  (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than  $65 + 10 \log$  (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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## FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in § 27.53(m)(6). In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

## §90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \log_{10}(f/6.1)$  decibels or  $50 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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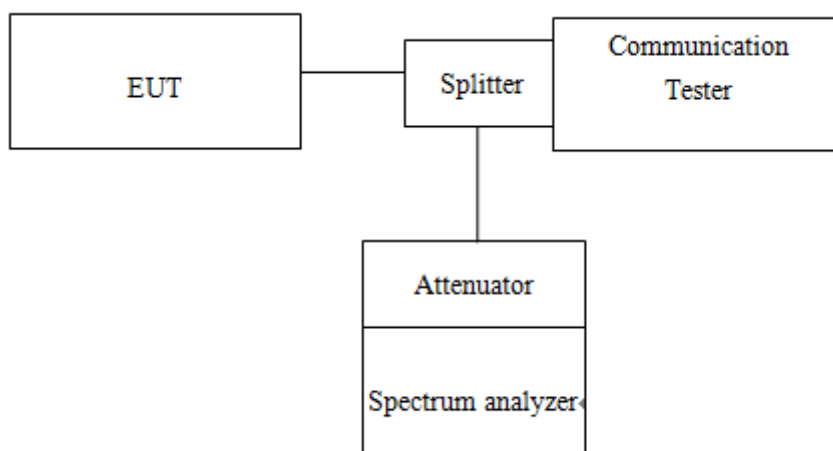
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## 9.2. Test SET-UP



## 9.3. Measurement Procedure

### Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

### Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting  $RBW \geq 1\% \text{ EBW}$ .
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

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#### 9.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/24/2016	09/23/2017

#### 9.5. Measurement Result:

Refer to next pages.

**NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.**

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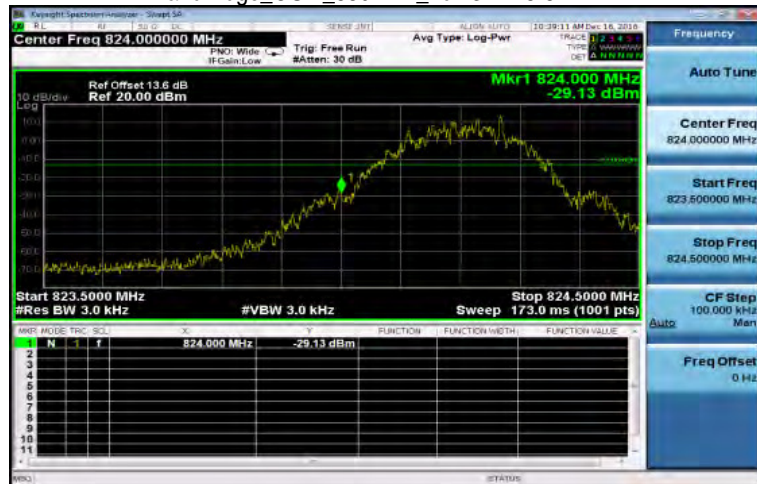
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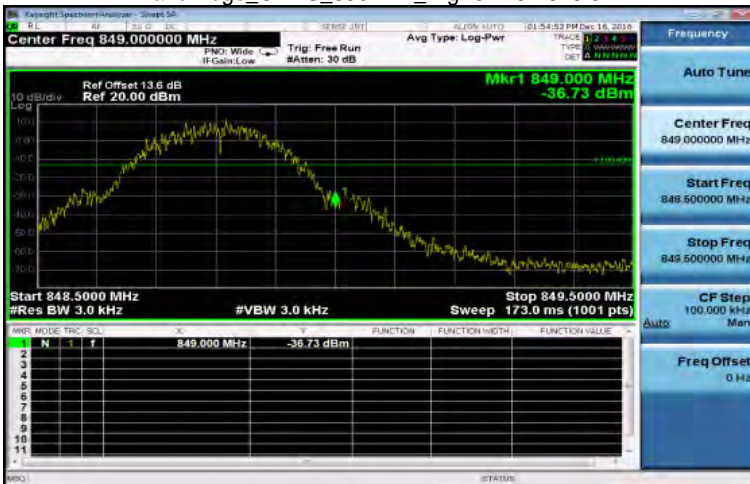
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Band Edge\_GSM\_850MHz\_LowCH128-824.2



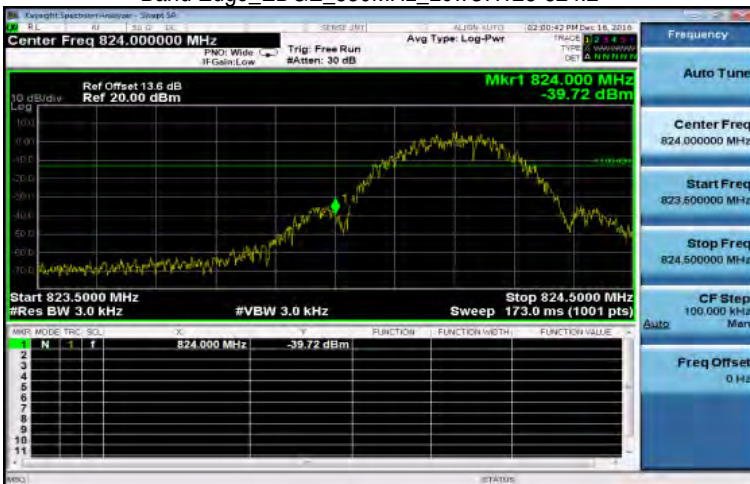
Band Edge\_GPRS\_850MHz\_HighCH251-848.8



Band Edge\_GSM\_850MHz\_HighCH251-848.8



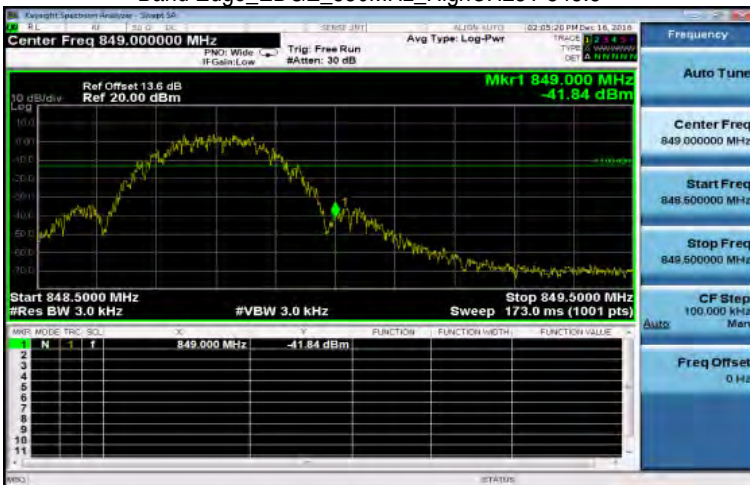
Band Edge\_EDGE\_850MHz\_LowCH128-824.2



Band Edge\_GPRS\_850MHz\_LowCH128-824.2



Band Edge\_EDGE\_850MHz\_HighCH251-848.8



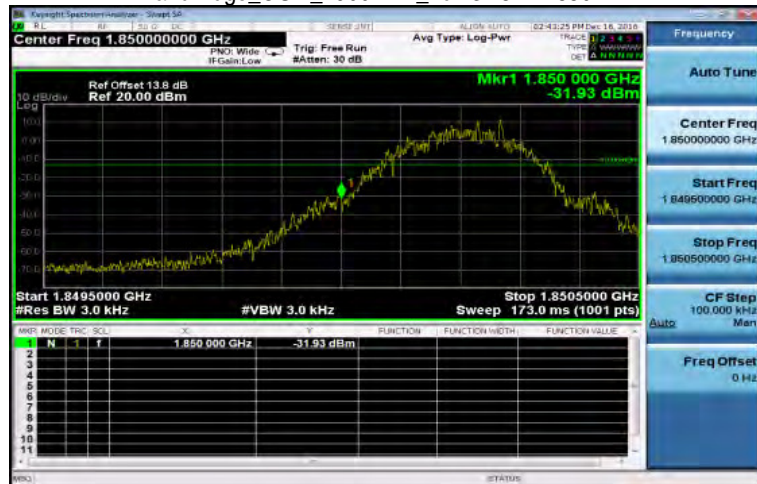
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Band Edge\_GSM\_1900MHz\_LowCH512-1850.2



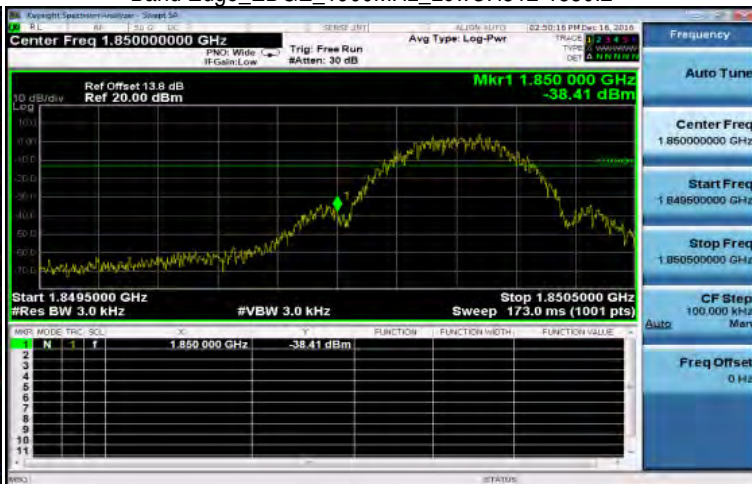
Band Edge\_GPRS\_1900MHz\_HighCH810-1909.8



Band Edge\_GSM\_1900MHz\_HighCH810-1909.8



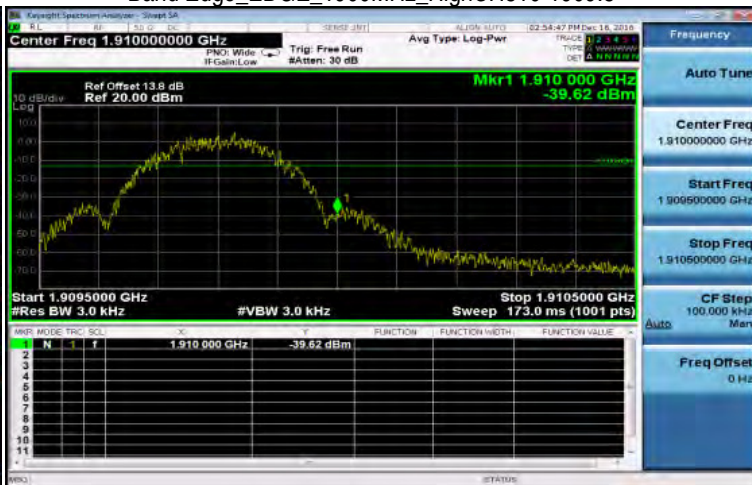
Band Edge\_EDGE\_1900MHz\_LowCH512-1850.2



Band Edge\_GPRS\_1900MHz\_LowCH512-1850.2



Band Edge\_EDGE\_1900MHz\_HighCH810-1909.8



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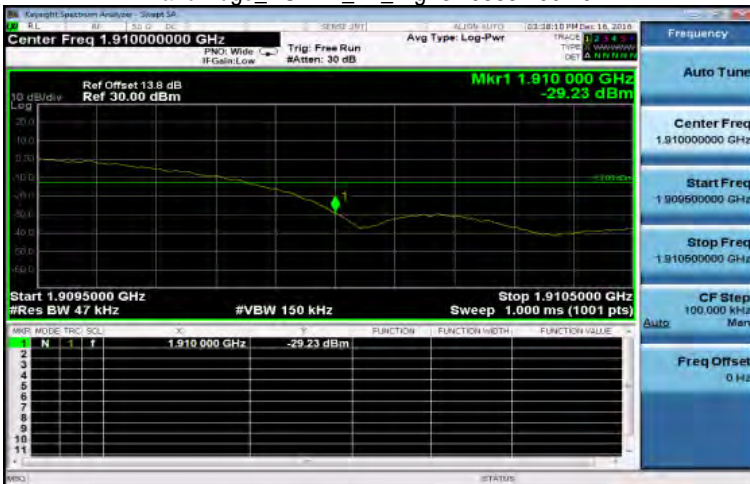
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Band Edge\_WCDMA\_B2\_LowCH9262-1852.4



Band Edge\_HSDPA\_B2\_HighCH9538-1907.6



Band Edge\_WCDMA\_B2\_HighCH9538-1907.6



Band Edge\_HSUPA\_B2\_LowCH9262-1852.4



Band Edge\_HSDPA\_B2\_LowCH9262-1852.4



Band Edge\_HSUPA\_B2\_HighCH9538-1907.6



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Band Edge\_WCDMA\_B4\_LowCH1312-1712.4



Band Edge\_HSDPA\_B4\_HighCH1513-1752.6



Band Edge\_WCDMA\_B4\_HighCH1513-1752.6



Band Edge\_HSUPA\_B4\_LowCH1312-1712.4



Band Edge\_HSDPA\_B4\_LowCH1312-1712.4



Band Edge\_HSUPA\_B4\_HighCH1513-1752.6



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Band Edge\_WCDMA\_B5\_LowCH4132-826.4



Band Edge\_HSDPA\_B5\_HighCH4233-846.6



Band Edge\_WCDMA\_B5\_HighCH4233-846.6



Band Edge\_HSUPA\_B5\_LowCH4132-826.4



Band Edge\_HSDPA\_B5\_LowCH4132-826.4



Band Edge\_HSUPA\_B5\_HighCH4233-846.6



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Band Edge\_Band2 1.4MHz\_QPSK 1 0\_LowCH18607-1850.7



Band Edge\_Band2 1.4MHz\_QPSK 6 0\_HighCH19193-1909.3



Band Edge\_Band2 1.4MHz\_QPSK 1 5\_HighCH19193-1909.3



Band Edge\_Band2 3MHz\_QPSK 1 0\_LowCH18615-1851.5



Band Edge\_Band2 1.4MHz\_QPSK 6 0\_LowCH18607-1850.7



Band Edge\_Band2 3MHz\_QPSK 1 14\_HighCH19185-1908.5



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Band Edge\_Band2 3MHz\_QPSK 15 0\_LowCH18615-1851.5



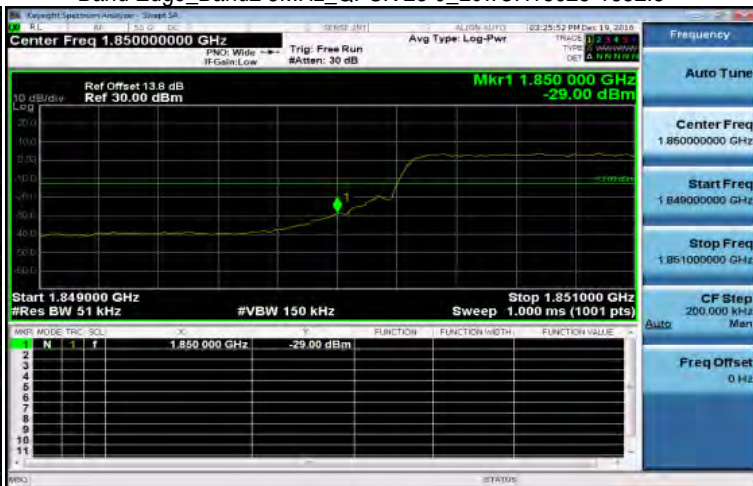
Band Edge\_Band2 5MHz\_QPSK 1 24\_HighCH19175-1907.5



Band Edge\_Band2 3MHz\_QPSK 15 0\_HighCH19185-1908.5



Band Edge\_Band2 5MHz\_QPSK 25 0\_LowCH18625-1852.5



Band Edge\_Band2 5MHz\_QPSK 1 0\_LowCH18625-1852.5



Band Edge\_Band2 5MHz\_QPSK 25 0\_HighCH19175-1907.5



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Band Edge\_Band2 10MHz\_QPSK 1 0\_LowCH18650-1855



Band Edge\_Band2 10MHz\_QPSK 50 0\_HighCH19150-1905



Band Edge\_Band2 10MHz\_QPSK 1 49\_HighCH19150-1905



Band Edge\_Band2 15MHz\_QPSK 1 0\_LowCH18675-1857.5



Band Edge\_Band2 10MHz\_QPSK 50 0\_LowCH18650-1855



Band Edge\_Band2 15MHz\_QPSK 1 74\_HighCH19125-1902.5



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Band Edge\_Band2 15MHz\_QPSK 75 0\_LowCH18675-1857.5



Band Edge\_Band2 20MHz\_QPSK 1 99\_HighCH19100-1900



Band Edge\_Band2 15MHz\_QPSK 75 0\_HighCH19125-1902.5



Band Edge\_Band2 20MHz\_QPSK 100 0\_LowCH18700-1860



Band Edge\_Band2 20MHz\_QPSK 1 0\_LowCH18700-1860



Band Edge\_Band2 20MHz\_QPSK 100 0\_HighCH19100-1900



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Band Edge\_Band4 1.4MHz\_QPSK 1 0\_LowCH19957-1710.7



Band Edge\_Band4 1.4MHz\_QPSK 6 0\_HighCH20393-1754.3



Band Edge\_Band4 1.4MHz\_QPSK 1 5\_HighCH20393-1754.3



Band Edge\_Band4 3MHz\_QPSK 1 0\_LowCH19965-1711.5



Band Edge\_Band4 1.4MHz\_QPSK 6 0\_LowCH19957-1710.7



Band Edge\_Band4 3MHz\_QPSK 1 14\_HighCH20385-1753.5



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Band Edge\_Band4 3MHz\_QPSK 15 0\_LowCH19965-1711.5



Band Edge\_Band4 5MHz\_QPSK 1 24\_HighCH20375-1752.5



Band Edge\_Band4 3MHz\_QPSK 15 0\_HighCH20385-1753.5



Band Edge\_Band4 5MHz\_QPSK 25 0\_LowCH19975-1712.5



Band Edge\_Band4 5MHz\_QPSK 1 0\_LowCH19975-1712.5



Band Edge\_Band4 5MHz\_QPSK 25 0\_HighCH20375-1752.5



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Band Edge\_Band4 10MHz\_QPSK 1 0\_LowCH20000-1715



Band Edge\_Band4 10MHz\_QPSK 50 0\_HighCH20350-1750



Band Edge\_Band4 10MHz\_QPSK 1 49\_HighCH20350-1750



Band Edge\_Band4 15MHz\_QPSK 1 0\_LowCH20025-1717.5



Band Edge\_Band4 10MHz\_QPSK 50 0\_LowCH20000-1715



Band Edge\_Band4 15MHz\_QPSK 1 74\_HighCH20325-1747.5



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Band Edge\_Band4 15MHz\_QPSK 75 0\_LowCH20025-1717.5



Band Edge\_Band4 20MHz\_QPSK 1 99\_HighCH20300-1745



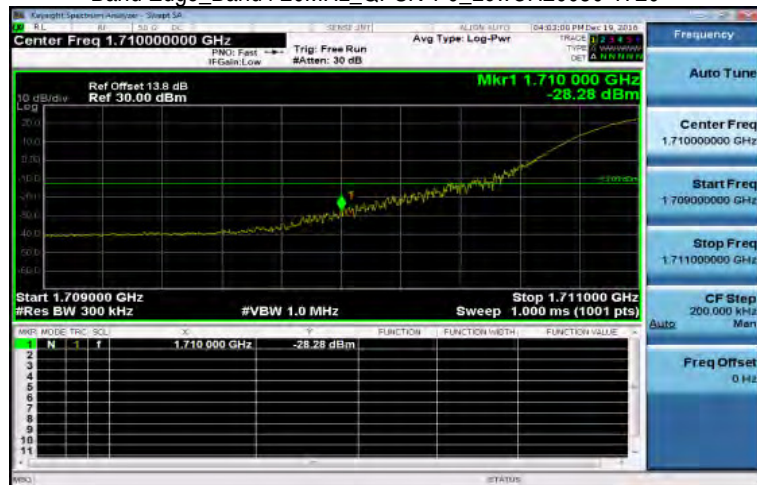
Band Edge\_Band4 15MHz\_QPSK 75 0\_HighCH20325-1747.5



Band Edge\_Band4 20MHz\_QPSK 100 0\_LowCH20050-1720



Band Edge\_Band4 20MHz\_QPSK 1 0\_LowCH20050-1720



Band Edge\_Band4 20MHz\_QPSK 100 0\_HighCH20300-1745



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Band Edge\_Band5 1.4MHz\_QPSK 1 0\_LowCH20407-824.7



Band Edge\_Band5 1.4MHz\_QPSK 6 0\_HighCH20643-848.3



Band Edge\_Band5 1.4MHz\_QPSK 1 5\_HighCH20643-848.3



Band Edge\_Band5 3MHz\_QPSK 1 0\_LowCH20415-825.5



Band Edge\_Band5 1.4MHz\_QPSK 6 0\_LowCH20407-824.7



Band Edge\_Band5 3MHz\_QPSK 1 14\_HighCH20635-847.5



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