

**CFR 47 FCC PART 02
CFR 47 FCC PART 22H
CFR 47 FCC PART 24E
CFR 47 FCC PART 27
CFR 47 FCC PART 90**

TEST REPORT

For

POS Machine

MODEL NUMBER: N96

REPORT NUMBER: 4790951576.2-RF-6

ISSUE DATE: September 12, 2023

FCC ID: XDQN96-02

Prepared for

**Shenzhen Xinguodu Technology Co., Ltd.
17B JinSong Mansion, Terra Industrial & Trade Park Chegongmiao, Futian
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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	September 6, 2023	Initial Issue	

Note:

- 1.This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
2. The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 22 H >< CFR 47 FCC PART 24 E>< CFR 47 FCC PART 27 > < CFR 47 FCC PART 90 > when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Shenzhen Xinguodu Technology Co., Ltd.
Address: 17B JinSong Mansion, Terra Industrial & Trade Park
Chegongmiao, Futian District, Shenzhen 518040, China

Manufacturer Information

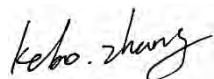
Company Name: Shenzhen Xinguodu Technology Co., Ltd.
Address: 17B JinSong Mansion, Terra Industrial & Trade Park
Chegongmiao, Futian District, Shenzhen 518040, China

EUT Information

EUT Name: POS Machine
Model: N96
Sample Received Date: August 04, 2023
Sample Status: Normal
Sample ID: 6332073
Date of Tested: August 16, 2023 to September 12, 2023

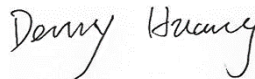
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 22H	PASS
CFR 47 FCC PART 24E	PASS
CFR 47 FCC PART 27	PASS
CFR 47 FCC PART 90	PASS

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.26-2015, 971168 D01 Power Meas License Digital Systems v03r01, 971168 D02 Misc Rev Approv License Devices v02r01, 412172 D01 v01r01 Determining ERP and EIRP, CFR 47 FCC Part 2, Part 22H, Part 24E, Part 27, Part 90.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B, the VCCI registration No. is C-20012 and T-20011
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 40 GHz)	5.78 dB (1 GHz-18 GHz)
	5.23dB (18 GHz-26 GHz)
	5.64 dB (26 GHz-40 GHz)
Bandwidth	1.1 %
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	POS Machine
Model	N96
Ratings	DC 7.6 V by battery

5.2. TECHNICAL INFORMATION

E-UTRA Band	Characteristics				
	E-UTRA operating bands		Bandwidth		
	Transmit	Receive			
2	1850 MHz-1910 MHz	1930 MHz-1990 MHz	☒ 1.4 MHz ☒ 10 MHz	☒ 3 MHz ☒ 15 MHz	☒ 5 MHz ☒ 20 MHz
4	1710 MHz-1755 MHz	2110 MHz-2155 MHz	☒ 1.4 MHz ☒ 10 MHz	☒ 3 MHz ☒ 15 MHz	☒ 5 MHz ☒ 20 MHz
5	824 MHz-849 MHz	869 MHz-894 MHz	☒ 1.4 MHz ☒ 10 MHz	☒ 3 MHz	☒ 5 MHz
7	2500 MHz-2570 MHz	2620 MHz-2690 MHz	☒ 5 MHz ☒ 20 MHz	☒ 10 MHz	☒ 15 MHz
12	699 MHz-716 MHz	729 MHz-746 MHz	☒ 1.4 MHz ☒ 10 MHz	☒ 3 MHz	☒ 5 MHz
13	777 MHz-787 MHz	746 MHz-756 MHz	☒ 5 MHz	☒ 10 MHz	
14	788 MHz-798 MHz	758 MHz-768 MHz	☒ 5 MHz	☒ 10 MHz	
17	704 MHz-716 MHz	734 MHz-746 MHz	☒ 5 MHz	☒ 10 MHz	
25	1850 MHz-1915 MHz	1930 MHz-1995 MHz	☒ 1.4 MHz ☒ 10 MHz	☒ 3 MHz ☒ 15 MHz	☒ 5 MHz ☒ 20 MHz
26	814 MHz-849 MHz	859 MHz-894 MHz	☒ 1.4 MHz ☒ 10 MHz	☒ 3 MHz ☒ 15 MHz	☒ 5 MHz
41	2496 MHz-2690 MHz	2496 MHz-2690 MHz	☒ 5 MHz ☒ 20 MHz	☒ 10 MHz	☒ 15 MHz
66	1710 MHz-1780 MHz	2110 MHz-2200 MHz	☒ 1.4 MHz ☒ 10 MHz	☒ 3 MHz ☒ 15 MHz	☒ 5 MHz ☒ 20 MHz
71	663 MHz-698 MHz	617 MHz-652 MHz	☒ 5 MHz ☒ 20 MHz	☒ 10 MHz	☒ 15 MHz

5.3. TEST CHANNEL CONFIGURATION

Mode	TX	Low	Middle	High
LTE Band 2	TX (1.4 MHz)	18607	18900	19193
		1850.7 MHz	1880 MHz	1909.3 MHz
	TX (3 MHz)	18615	18900	19185
		1851.5 MHz	1880 MHz	1908.5 MHz
	TX (5 MHz)	18625	18900	19175
		1852.5 MHz	1880 MHz	1907.5 MHz
	TX (10 MHz)	18650	18900	19150
		1855 MHz	1880 MHz	1905 MHz
	TX (15 MHz)	18675	18900	19125
		1857.5 MHz	1880 MHz	1902.5 MHz
	TX (20 MHz)	18700	18900	19100
		1860 MHz	1880 MHz	1900 MHz

Mode	TX/RX	Low	Middle	High
LTE Band 4	TX (1.4 MHz)	19957	20175	20393
		1710.7 MHz	1732.5 MHz	1754.3 MHz
	TX (3 MHz)	19965	20175	20385
		1711.5 MHz	1732.5 MHz	1753.5 MHz
	TX (5 MHz)	19975	20175	20375
		1712.5 MHz	1732.5 MHz	1752.5 MHz
	TX (10 MHz)	20000	20175	20350
		1715 MHz	1732.5 MHz	1750 MHz
	TX (15 MHz)	20025	20175	20325
		1717.5 MHz	1732.5 MHz	1747.5 MHz
	TX (20 MHz)	20050	20175	20300
		1720 MHz	1732.5 MHz	1745 MHz

Mode	TX/RX	Low	Middle	High
LTE Band 5	TX (1.4 MHz)	20407	20525	20643
		824.7 MHz	836.5 MHz	848.3 MHz
	TX (3 MHz)	20415	20525	20635
		825.5 MHz	836.5 MHz	847.5 MHz
	TX (5 MHz)	20425	20525	20625
		826.5 MHz	836.5 MHz	846.5 MHz
	TX (10 MHz)	20450	20525	20600
		829.0 MHz	836.5 MHz	844.0 MHz

Band	TX/RX	Low	Middle	High
LTE Band 7	TX (5 MHz)	20775	21100	21425
		2502.5 MHz	2535.0 MHz	2567.5 MHz
	TX (10 MHz)	20800	21100	21400
		2505.0 MHz	2535.0 MHz	2565.0 MHz
	TX (15 MHz)	20825	21100	21400
		2507.5 MHz	2535.0 MHz	2562.5 MHz
	TX (20 MHz)	20850	21100	21350
		2510.0 MHz	2535.0 MHz	2560.0 MHz

Mode	TX/RX	Low	Middle	High
LTE Band 12	TX (1.4 MHz)	23017	23095	23173
		699.7 MHz	707.5 MHz	715.3 MHz
	TX (3 MHz)	23025	23095	23165
		700.5 MHz	707.5 MHz	714.5 MHz
	TX (5 MHz)	23035	23095	23155
		701.5 MHz	707.5 MHz	713.5 MHz
	TX (10 MHz)	23060	23095	23130
		704.0 MHz	707.5 MHz	711.0 MHz

Mode	TX/RX	Low	Middle	High
LTE Band 13	TX (5 MHz)	23305	23330	23355
		779.5 MHz	782.0 MHz	784.5 MHz
	TX (10 MHz)	23230	23230	23230
		782.0 MHz	782.0 MHz	782.0 MHz

Mode	TX/RX	Low	Middle	High
LTE Band 14	TX (5 MHz)	23305	23230	23255
		790.5 MHz	793.0 MHz	795.5 MHz
	TX (10 MHz)	23330	/	/
		793.0 MHz	/	/

Mode	TX/RX	Low	Middle	High
LTE Band 17	TX (5 MHz)	23755	23790	23825
		706.5 MHz	710.0 MHz	713.5 MHz
	TX (10 MHz)	23780	23790	23800
		709.0 MHz	710.0 MHz	711.0 MHz

Mode	TX/RX	Low	Middle	High
LTE Band 25	TX (1.4 MHz)	26047	26365	26683
		1850.7 MHz	1882.5 MHz	1914.3 MHz
	TX (3 MHz)	26055	26365	26675
		1851.5 MHz	1882.5 MHz	1913.5 MHz
	TX (5 MHz)	26065	26365	26665
		1852.5 MHz	1882.5 MHz	1912.5 MHz
	TX (10 MHz)	26090	26365	26640
		1855.0 MHz	1882.5 MHz	1910.0 MHz
	TX (15 MHz)	26115	26365	26615
		1857.5 MHz	1882.5 MHz	1907.5 MHz
	TX (20 MHz)	26140	26365	26590
		1860.0 MHz	1882.5 MHz	1905.0 MHz

Mode	TX/RX	Low	Middle	High
LTE Band 26	TX (1.4 MHz)	26697	26865	27033
		814.7 MHz	831.5 MHz	848.3 MHz
	TX (3 MHz)	26705	26865	27025
		815.5 MHz	831.5 MHz	847.5 MHz
	TX (5 MHz)	26715	26865	27015
		816.5 MHz	831.5 MHz	846.5 MHz
	TX (10 MHz)	26740	26865	26990
		819.0 MHz	831.5 MHz	844.0 MHz
	TX (15 MHz)	26765	26865	26965
		831.5 MHz	831.5 MHz	841.5 MHz

Band	TX/RX	Low	Middle	High
LTE Band 41	TX (5 MHz)	39675	40620	41564
		2498.5 MHz	2593.0 MHz	2687.5 MHz
	TX (10 MHz)	39700	40620	41539
		2501.0 MHz	2593.0 MHz	2685.0 MHz
	TX (15 MHz)	39725	40620	41514
		2503.5 MHz	2593.0 MHz	2682.5 MHz
	TX (20 MHz)	39750	40620	41489
		2506.0 MHz	2593.0 MHz	2680.0 MHz

Mode	TX/RX	Low	Middle	High
LTE Band 66	TX (1.4 MHz)	131979	132322	132665
		1710.7 MHz	1745.0 MHz	1779.3 MHz
	TX (3 MHz)	131987	132322	132657
		1711.5 MHz	1745.0 MHz	1778.5 MHz
	TX (5 MHz)	131997	132322	132647
		1712.5 MHz	1745.0 MHz	1777.5 MHz
	TX (10 MHz)	132022	132322	132622
		1715.0 MHz	1745.0 MHz	1775.0 MHz
	TX (15 MHz)	132047	132322	132597
		1717.5 MHz	1745.0 MHz	1772.5 MHz
	TX (20 MHz)	132072	132322	132572
		1720.0 MHz	1745.0 MHz	1770.0 MHz

Mode	TX/RX	Low	Middle	High
LTE Band 71	TX (5 MHz)	133147	133297	133447
		665.5 MHz	680.5 MHz	695.5 MHz
	TX (10 MHz)	133172	133297	133422
		668.0 MHz	680.5 MHz	693.0 MHz
	TX (15 MHz)	133197	133297	133397
		670.5 MHz	680.5 MHz	690.5 MHz
	TX (20 MHz)	133222	133297	133372
		673.0 MHz	680.5 MHz	688.0 MHz

5.4. MAXIMUM AVERAGE OUTPUT POWER

LTE Band 2

Part 24								
EIRP Limit(W)		2						
Antenna Gain (dBi)		1.46						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1850.7	1909.3	21.44	22.90	0.19	1.085	1M08G7W
	16QAM			20.55	22.01	0.16	1.084	1M08D7W
3	QPSK	1851.5	1908.5	21.47	22.93	0.20	2.684	2M68G7W
	16QAM			20.62	22.08	0.16	2.685	2M68D7W
5	QPSK	1852.5	1907.5	21.73	23.19	0.21	4.484	4M48G7W
	16QAM			20.90	22.36	0.17	4.482	4M48D7W
10	QPSK	1855.0	1905.0	21.47	22.93	0.20	8.949	8M95G7W
	16QAM			20.62	22.08	0.16	8.945	8M94D7W
15	QPSK	1857.5	1902.5	21.52	22.98	0.20	13.412	13M4G7W
	16QAM			20.88	22.34	0.17	13.408	13M4D7W
20	QPSK	1860.0	1900.0	21.39	22.85	0.19	17.921	17M9G7W
	16QAM			20.70	22.16	0.16	17.925	17M9D7W

LTE Band 4

Part 24								
EIRP Limit(W)		2						
Antenna Gain (dBi)		1.46						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1710.7	1754.3	20.99	22.96	0.20	1.09	1M09G7W
	16QAM			20.21	22.18	0.17	1.088	1M08D7W
3	QPSK	1711.5	1753.5	21.03	23.00	0.20	2.692	2M69G7W
	16QAM			20.22	22.19	0.17	2.689	2M68D7W
5	QPSK	1712.5	1752.5	21.20	23.17	0.21	4.499	4M49G7W
	16QAM			20.38	22.35	0.17	4.504	4M50D7W
10	QPSK	1715.0	1750.0	21.51	23.48	0.22	8.978	8M97G7W
	16QAM			20.67	22.64	0.18	8.969	8M96D7W
15	QPSK	1717.5	1747.5	20.96	22.93	0.20	13.482	13M5G7W
	16QAM			20.18	22.15	0.16	13.462	13M5D7W
20	QPSK	1720.0	1745.0	21.00	22.97	0.20	18.049	18M0G7W
	16QAM			20.07	22.04	0.16	18.025	18M0D7W

LTE Band 5

Part 22H								
ERP Limit(W)		7.00						
Antenna Gain (dBi)		-1.58						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	824.7	848.3	20.18	18.60	0.07	1.091	1M09G7W
	16QAM			21.27	19.69	0.09	1.09	1M09D7W
3	QPSK	825.5	847.5	22.22	20.64	0.12	2.696	2M70G7W
	16QAM			21.32	19.74	0.09	2.695	2M69D7W
5	QPSK	826.5	846.5	22.24	20.66	0.12	4.499	4M50G7W
	16QAM			21.30	19.72	0.09	4.506	4M51D7W
10	QPSK	829.0	844.0	22.44	20.86	0.12	8.968	8M97G7W
	16QAM			21.56	19.98	0.10	8.962	8M96D7W

LTE Band 7

Part 27								
EIRP Limit(W)		2						
Antenna Gain (dBi)		0.77						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	2502.5	2567.5	19.02	19.79	0.10	4.496	4M50G7W
	16QAM			19.29	20.06	0.10	4.504	4M50D7W
10	QPSK	2505.0	2565.0	19.07	19.84	0.10	8.976	8M98G7W
	16QAM			19.27	20.04	0.10	8.96	8M96D7W
15	QPSK	2507.5	2562.5	19.02	19.79	0.10	13.461	13M5G7W
	16QAM			19.19	19.96	0.10	13.462	13M5D7W
20	QPSK	2510.0	2560.0	19.49	20.26	0.11	18.022	18M2G7W
	16QAM			19.14	19.91	0.10	18.006	18M0D7W

LTE Band 12

Part 27								
ERP Limit(W)		3.00						
Antenna Gain (dBi)		-0.67						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	699.7	715.3	22.13	21.46	0.14	1.092	1M09G7W
	16QAM			22.13	21.46	0.14	1.09	1M09D7W
3	QPSK	700.5	714.5	22.13	21.46	0.14	2.693	2M69G7W
	16QAM			22.13	21.46	0.14	2.69	2M69D7W
5	QPSK	701.5	713.5	22.23	21.56	0.14	4.491	4M49G7W
	16QAM			22.23	21.56	0.14	4.501	4M50D7W
10	QPSK	704.0	711.0	22.50	21.83	0.15	8.955	8M95G7W
	16QAM			22.50	21.83	0.15	8.947	8M95D7W

LTE Band 13

Part 27								
ERP Limit(W)		3.00						
Antenna Gain (dBi)		-0.99						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	779.5	784.5	22.50	21.51	0.14	4.499	4M50G7W
	16QAM			22.25	21.26	0.13	4.502	4M50D7W
10	QPSK	782	782	22.33	21.34	0.14	8.949	8M95G7W
	16QAM			22.28	21.29	0.13	8.937	8M94G7W

LTE Band 14

Part 90R								
ERP Limit(W)		3.00						
Antenna Gain (dBi)		-0.99						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	790.5	795.5	22.04	21.05	0.13	4.496	4M49G7W
	16QAM			22.16	21.17	0.13	4.502	4M50D7W
10	QPSK	793.0	793.0	22.12	21.13	0.13	8.97	8M97G7W
	16QAM			21.30	20.31	0.11	8.958	8M96G7W

LTE Band 17

Part 27								
ERP Limit(W)		3.00						
Antenna Gain (dBi)		-0.67						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	706.5	713.5	22.50	21.83	0.15	4.506	4M51G7W
	16QAM			21.80	21.13	0.13	4.509	4M51D7W
10	QPSK	709.0	711.0	22.61	21.94	0.16	8.955	8M96G7W
	16QAM			21.79	21.12	0.13	8.96	8M96D7W

LTE Band 25

Part 24								
EIRP Limit(W)		2.00						
Antenna Gain (dBi)		1.46						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1850.7	1914.3	21.32	22.78	0.19	1.09	1M09G7W
	16QAM			20.57	22.03	0.16	1.09	1M09D7W
3	QPSK	1851.5	1913.5	21.46	22.92	0.20	2.693	2M69G7W
	16QAM			20.42	21.88	0.15	2.689	2M69D7W
5	QPSK	1852.5	1912.5	21.53	22.99	0.20	4.494	4M49G7W
	16QAM			20.52	21.98	0.16	4.505	4M51D7W
10	QPSK	1855.0	1910.0	21.55	23.01	0.20	8.956	8M96G7W
	16QAM			20.71	22.17	0.16	8.948	8M95D7W
15	QPSK	1857.5	1907.5	21.45	22.91	0.20	13.418	13M4G7W
	16QAM			20.85	22.31	0.17	13.414	13M4D7W
20	QPSK	1860.0	1905.0	21.54	23.00	0.20	17.933	17M9G7W
	16QAM			20.68	22.14	0.16	17.907	17M9D7W

LTE Band 26

Part 22H/90S								
EIRP Limit(W)		7.00						
Antenna Gain (dBi)		-1.38						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	814.7	848.3	22.29	20.91	0.12	1.102	1M10G7W
	16QAM			21.50	20.12	0.10	1.099	1M10D7W
3	QPSK	815.5	847.5	22.33	20.95	0.12	2.706	2M70G7W
	16QAM			21.47	20.09	0.10	2.700	2M70D7W
5	QPSK	816.5	846.5	22.40	21.02	0.13	4.522	4M50G7W
	16QAM			21.49	20.11	0.10	4.503	4M50D7W
10	QPSK	819	844	22.56	21.18	0.13	9.00	9M00G7W
	16QAM			21.74	20.36	0.11	8.991	8M99D7W
15	QPSK	831.5	841.5	22.48	21.10	0.13	13.491	13M5G7W
	16QAM			21.76	20.38	0.11	13.48	13M5D7W

LTE Band 41

Part 27								
EIRP Limit(W)		2.00						
Antenna Gain (dBi)		0.9						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	2498.5	2687.5	21.09	21.99	0.16	4.512	4M51G7W
	16QAM			20.46	21.36	0.14	4.51	4M51D7W
10	QPSK	2501.0	2685.0	21.18	22.08	0.16	8.984	8M98G7W
	16QAM			20.60	21.50	0.14	8.988	8M99D7W
15	QPSK	2503.5	2682.5	20.93	21.83	0.15	13.452	13M5G7W
	16QAM			20.29	21.19	0.13	13.496	13M5D7W
20	QPSK	2506.0	2680.0	20.96	21.86	0.15	18.062	18M1G7W
	16QAM			20.18	21.08	0.13	17.992	18M0D7W

LTE Band 66

Part 27								
EIRP Limit(W)		1.00						
Antenna Gain (dBi)		1.97						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1710.7	1779.3	21.14	23.11	0.20	1.092	1M09G7W
	16QAM			20.22	22.19	0.17	1.09	1M09D7W
3	QPSK	1711.5	1778.5	21.17	23.14	0.21	2.691	2M69G7W
	16QAM			20.32	22.29	0.17	2.686	2M69D7W
5	QPSK	1712.5	1777.5	21.31	23.28	0.21	4.496	4M50G7W
	16QAM			20.48	22.45	0.18	4.507	4M51D7W
10	QPSK	1715.0	1775.0	21.56	23.53	0.23	8.974	8M97G7W
	16QAM			20.91	22.88	0.19	8.966	8M97D7W
15	QPSK	1717.5	1772.5	21.40	23.37	0.22	13.464	13M5G7W
	16QAM			20.63	22.60	0.18	13.46	13M5D7W
20	QPSK	1720.0	1770.0	21.58	23.55	0.23	18.033	18M0G7W
	16QAM			20.68	22.65	0.18	17.999	18M0D7W

LTE Band 71

Part 27								
EIRP Limit(W)		3.00						
Antenna Gain (dBi)		-0.67						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	665.5	695.5	21.70	21.03	0.13	4.499	4M50G7W
	16QAM			20.86	20.19	0.10	4.503	4M50D7W
10	QPSK	668.0	693.0	21.80	21.13	0.13	8.968	8M97G7W
	16QAM			21.09	20.42	0.11	8.962	8M96D7W
15	QPSK	670.5	690.5	21.86	21.19	0.13	13.469	13M5G7W
	16QAM			21.13	20.46	0.11	13.457	13M5D7W
20	QPSK	673.0	688.0	21.59	20.92	0.12	18.008	18M0G7W
	16QAM			20.59	19.92	0.10	18.001	18M0D7W

5.5. WORST-CASE CONFIGURATION AND MODE

During all testing, EUT is in link mode with base station emulator at maximum power level. The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM. All testing was performed using QPSK and 16QAM modulations to represent the worst case.

The radiated spurious emissions measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT was investigated in three orthogonal orientations X,Y and Z. It was determined that X orientation was the worst-case.

Radiated spurious emissions were investigated below 30 MHz, 30 MHz - 1 GHz and above 1 GHz. There were no emissions found on below 1GHz and above 18 GHz, the emissions between 1 GHz – 18 GHz were tested the highest transmitting power channel and the worse configuration.

Test Items	Worst case test configuration			
Description	Modulation	Channel	Bandwidth (MHz)	RB Configuration
Radiated Spurious Emissions	QPSK	L, M, H	Maximum BW	RB size=1, RB Location=Low

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Band	Antenna Type	Maximum Antenna Gain (dBi)
1	LTE Band 2	FPC	1.46
1	LTE Band 4	FPC	1.97
1	LTE Band 5	FPC	-1.58
1	LTE Band 7	FPC	0.77
1	LTE Band 12	FPC	-0.67
1	LTE Band 13	FPC	-0.99
1	LTE Band 14	FPC	-0.99
1	LTE Band 17	FPC	-0.67
1	LTE Band 25	FPC	1.46
1	LTE Band 26	FPC	-1.38
1	LTE Band 41	FPC	0.90
1	LTE Band 66	FPC	1.97
1	LTE Band 71	FPC	-0.67

Band	Transmit and Receive Mode	Description
LTE Band 2	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 4	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 5	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 7	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 12	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 13	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 14	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 17	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 25	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 26	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 41	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 66	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 71	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna

Note: The value of the antenna gain was declared by customer.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Mfr/Brand	Model/Type No.	Specification	Series No.
/	/	/	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	Type C	/	1.0	/

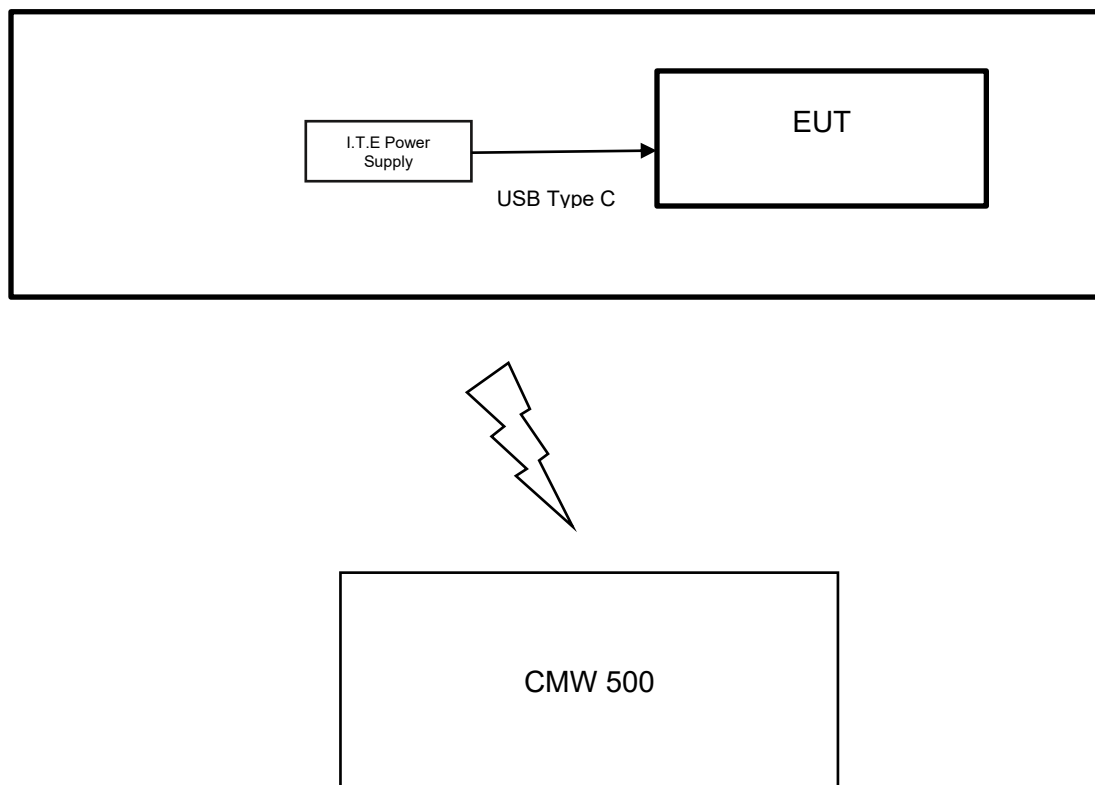
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	I.T.E Power Supply	/	STC-A520A-Z	Input: 100 ~ 240 V, 50/60 Hz, 400 mA Output: DC 5.0 V, 2000 mA

TEST SETUP

The EUT can connect to CMW500 into a test mode.

SETUP DIAGRAM FOR TESTS



6. MEASURING INSTRUMENT AND SOFTWARE USED

Antenna Terminal Test						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☒	Spectrum Analyzer	R&S	FSV40	S422060001	Oct.17, 2022	Oct.16, 2023
☒	Wideband Radio Communication Tester	R&S	CMW500	155523	Oct.17, 2022	Oct.16, 2023
☒	DC Power Supply	Array	3662A	A1512015	Oct.17, 2022	Oct.16, 2023
Software						
Used	Description		Manufacturer	Name		Version
☒	Tonsend Cellular Test System		Tonsend	JS1120 RF Auto Test System		3.1.46
Radiated Test						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☒	MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.17, 2022	Oct.16, 2023
☒	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
☒	Preamplifier	HP	8447D	2944A09099	Oct.17, 2022	Oct.16, 2023
☒	EMI Measurement Receiver	R&S	ESR26	101377	Oct.17, 2022	Oct.16, 2023
☒	Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
☒	Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
☒	Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct.17, 2022	Oct.16, 2023
☒	Preamplifier	TDK	PA-02-2	TRS-307-00003	Oct.17, 2022	Oct.16, 2023
☒	Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024
☒	High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Oct.17, 2022	Oct.16, 2023
Software						
Used	Description		Manufacturer	Name		Version
☒	Test Software for Radiated disturbance		Farad	EZ-EMC		Ver. UL-3A1

7. ANTENNA TERMINAL TEST RESULTS

7.1. EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.50, §90.635, §90.542(a)(7)

LIMITS

22.913(a) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(c) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

27.50(c) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

27.50(d) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watts EIRP.

27.50(h) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

90.542(a)(7)

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

TEST PROCEDURE

Refer to ANSI C63.26:2015 and KDB 971168 D01 Section 5.6

$ERP/ EIRP = P_{Meas} + GT - LC$

where:

ERP or EIRP = effective or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

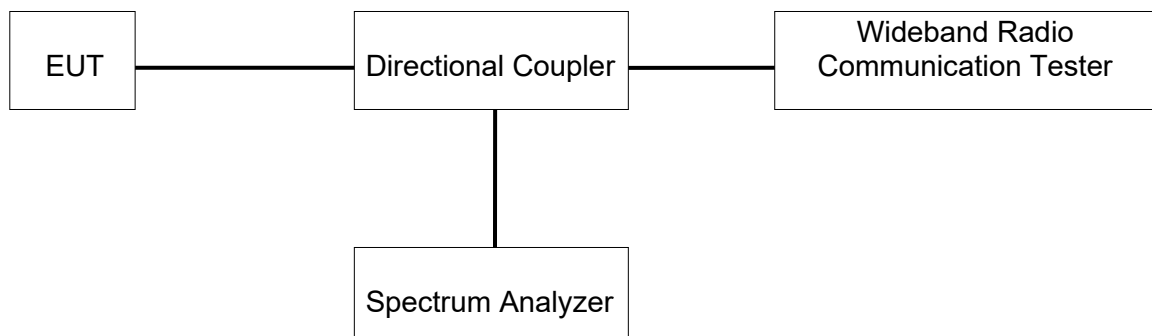
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

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

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

The transmitter has a maximum radiated ERP / EIRP output powers as follows:

TEST SETUP



TEST ENVIRONMENT

Temperature	24.6 °C	Relative Humidity	53%
Atmosphere Pressure	101 kPa	Test Voltage	DC 7.6 V

RESULTS

Please refer to Appendix A.

7.2. PEAK TO AVERAGE RADIO

LIMITS

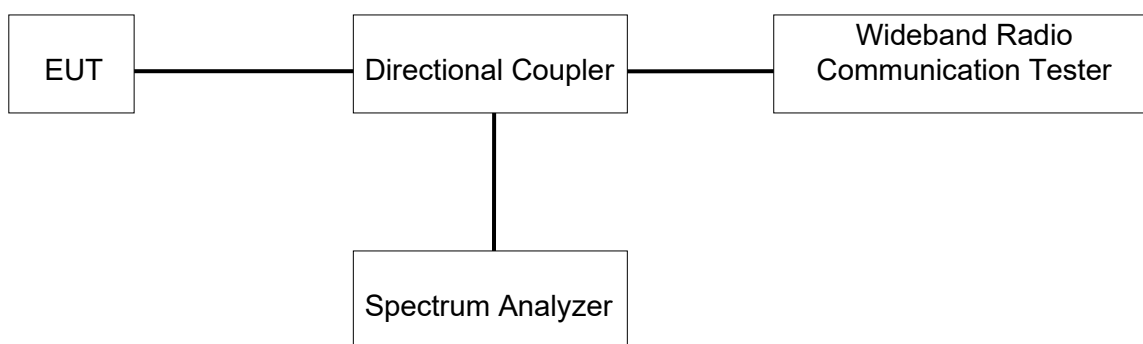
In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The PAR was measured on the Spectrum Analyzer.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.6 °C	Relative Humidity	53%
Atmosphere Pressure	101 kPa	Test Voltage	DC 7.6 V

RESULTS

Please refer to Appendix B.

7.3. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

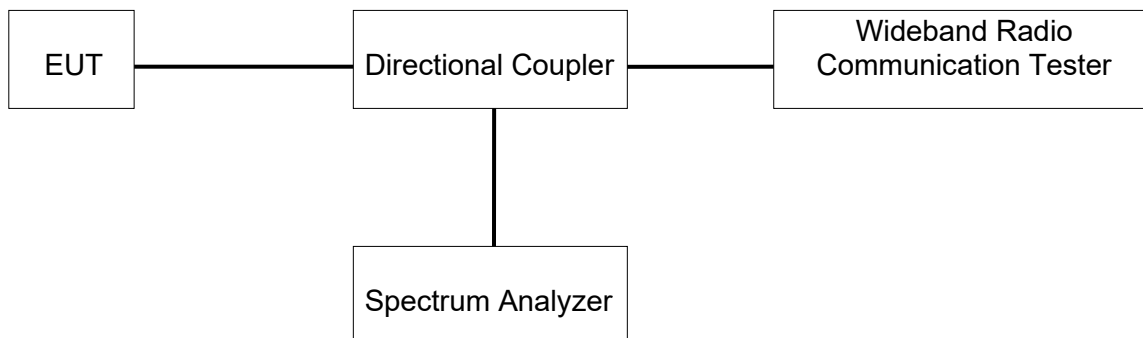
For reporting purposes only.

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

(Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01)

TEST SETUP



TEST ENVIRONMENT

Temperature	24.6 °C	Relative Humidity	53%
Atmosphere Pressure	101 kPa	Test Voltage	DC 7.6 V

RESULTS

Please refer to Appendix C.

7.4. BAND EDGE EMISSIONS

RULE PART(S)

FCC §2.1051, §22.917, §24.238, §27.53, §90.543(e), §90.691(a)

LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

§90.543(e)

For operations in the 758–768 MHz and the 788–798 MHz bands, 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:

- (1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
- (5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

§90.691(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.

TEST PROCEDURE

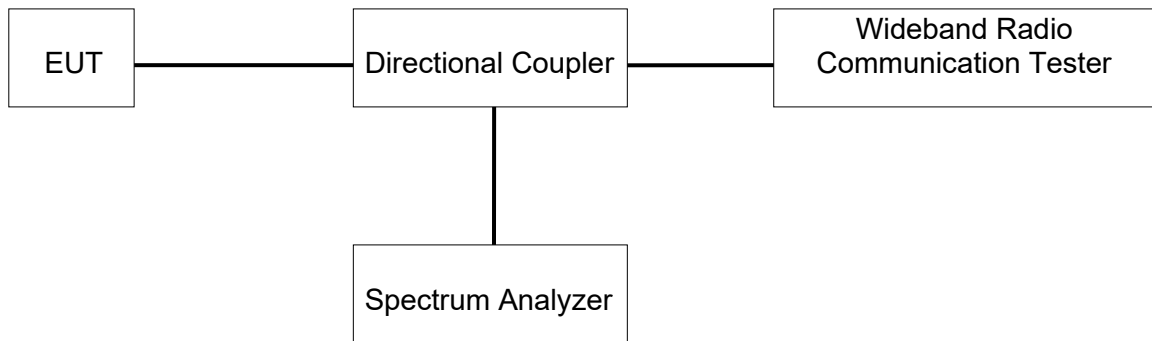
Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

- a) Set the RBW = 1 ~ 1.5 % of OBW (Typically limited to a minimum RBW of 1% of the OBW)
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = Auto;
- e) Detector = RMS;
- f) Ensure that the number of measurement points $\geq 2 \times$ Span/RBW;
- g) Trace mode = Average (100);

Test procedure for LTE Band 41

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.

TEST SETUP**TEST ENVIRONMENT**

Temperature	24.6 °C	Relative Humidity	53%
Atmosphere Pressure	101 kPa	Test Voltage	DC 7.6 V

RESULTS

Please refer to Appendix D.

7.5. SPURIOUS EMISSION AT ANTENNA TERMINAL

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53, §90.543(e), §90.691(a)

LIMITS

§22.901, §22.917, §24.238

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

§27.53(m)(Band 41)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log (P)$ dB.

§90.543(e)

For operations in the 758–768 MHz and the 788–798 MHz bands, 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:

- (1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
- (5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

§90.691(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.

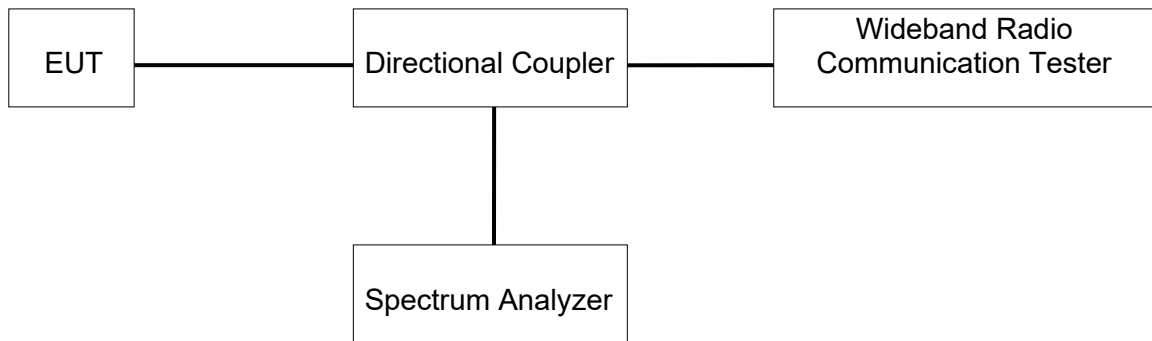
TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

- a) Set the RBW = 100 kHz for emission below 1GHz and 1MHz for emissions above 1GHz
(Tests were performed 1 MHz [Worst case], to sweep 1 time for all frequency range)
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points = Max (40001);
- g) Trace mode = average (LTE 5), Maxhold (LTE Band7);

Note: Please refer to section 5.4 for bandwidth and RB setting about LTE bands.

TEST SETUP**TEST ENVIRONMENT**

Temperature	24.6 °C	Relative Humidity	53%
Atmosphere Pressure	101 kPa	Test Voltage	DC 7.6 V

RESULTS

Please refer to Appendix E.

7.6. FREQUENCY STABILITY

Rule Part:

FCC: §2.1055, §22.355, §24.235, §27.54, §90.213

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

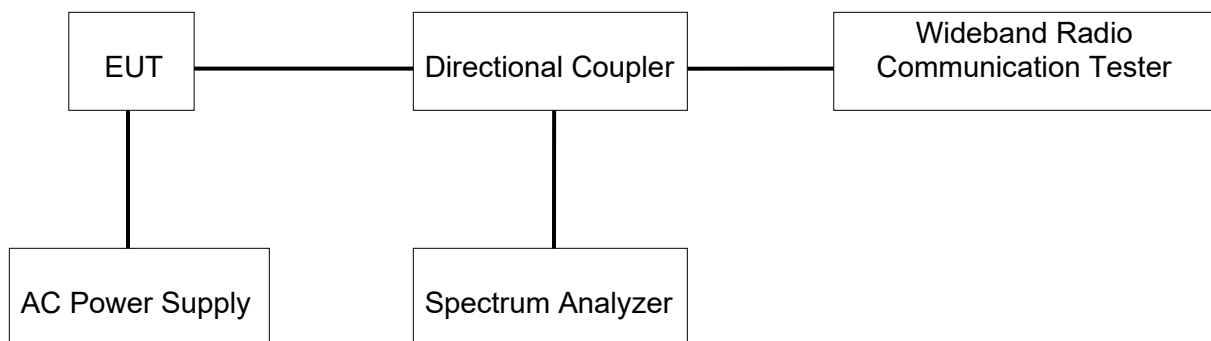
§24.235 and §27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

	Normal Test Conditions	Extreme Test Conditions
Relative Humidity	45 % ~ 75 %	/
Atmospheric Pressure	100 kPa ~ 102 kPa	/
Temperature	T _N (Normal Temperature): 24.6 °C	T _L (Low Temperature): 0 °C
		T _H (High Temperature): 50 °C
Supply Voltage	V _N (Normal Voltage): DC 7.6 V	V _L (Low Voltage): DC 6.46 V
		V _H (High Voltage): DC 8.74 V

TEST SETUP



TEST ENVIRONMENT

Temperature	24.6 °C	Relative Humidity	53%
Atmosphere Pressure	101 kPa	Test Voltage	DC 7.6 V

RESULTS

Please refer to Appendix F.

8. RADIATED SPURIOUS EMISSIONS

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53, §90.543(e), §90.691(a)

LIMIT

§22.917(a), §24.238(a), §27.53(h)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

§27.53(m)

At least $55 + 10 \log (P)$ 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 paragraph (m)(6) of this section.

§90.543(e)

For operations in the 758–768 MHz and the 788–798 MHz bands, 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:

(1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

§90.691(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.

For Band 13, 1559-1610 MHz shall be limited to -70 dBW/MHz EIRP for wideband signals and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

TEST PROCEDURE**KDB 971168 D01 Section 7**

Below 1GHz test procedure as below:

1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. Calculate power in dBm by the following formula:
$$\text{ERP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$

Where:

Pd is the dipole equivalent power, Pg is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to Pg [dBm] – cable loss [dB]. The calculated Pd levels are then compared to the absolute spurious emission limit of -13 dBm which is equivalent to the required minimum attenuation of $43 + 10\log_{10}(\text{Power [Watts]})$.

Above 1GHz test procedure as below:

1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. Calculate power in dBm by the following formula:
$$\text{EIRP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$$
$$\text{EIRP} = \text{ERP} + 2.15\text{dB}$$

Where: Pg is the generator output power into the substitution antenna.

11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

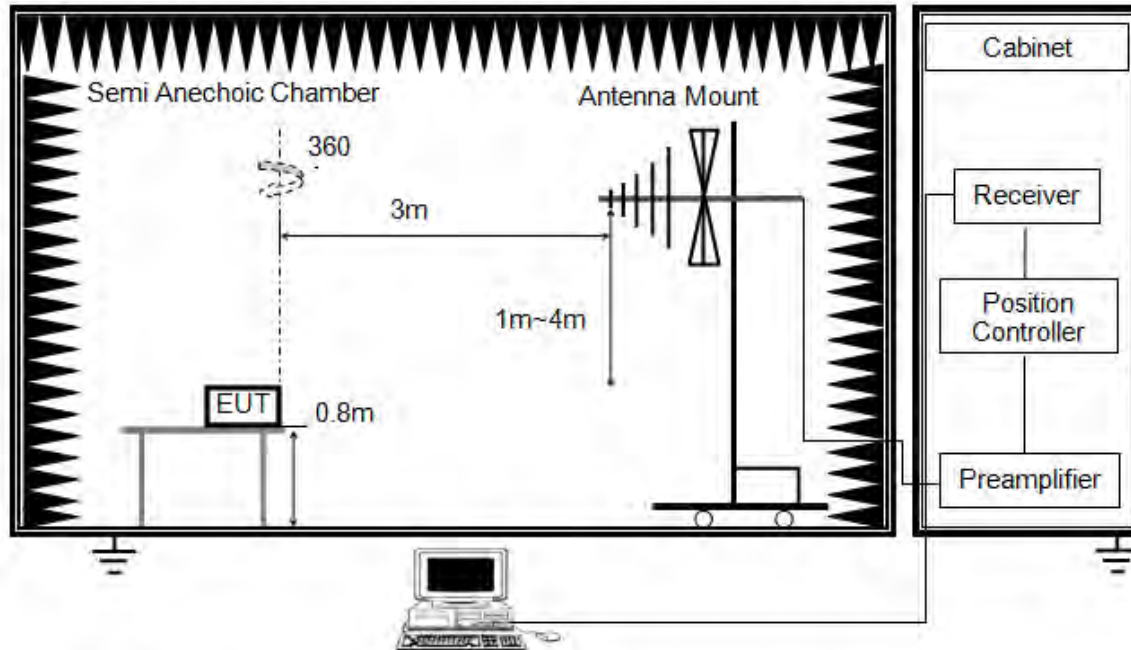
The limit line is derived from $43 + 10\log(P)\text{dB}$ below the transmitter power P(Watts)
$$= \text{P(W)} - [43 + 10\log(P)] \text{ (dB)}$$
$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$
$$= -13\text{dBm}.$$

NOTE 1: Radiated spurious emissions were investigated below 30 MHz, 30 MHz – 1 GHz and above 1 GHz. There were no emissions found on below 30 MHz and 30 MHz – 1 GHz. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

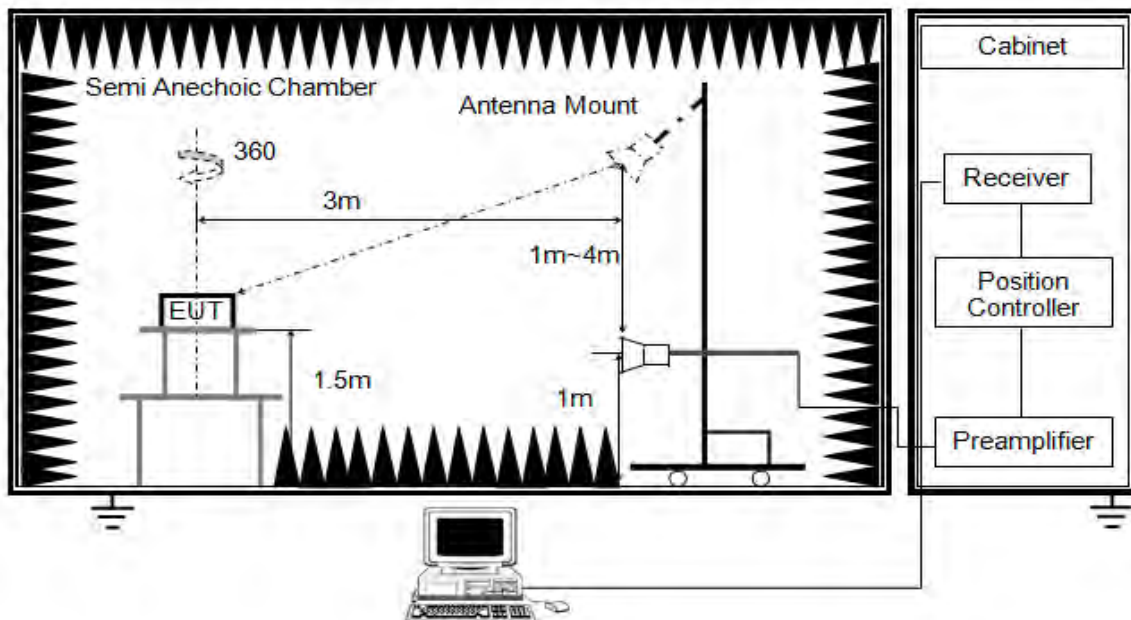
NOTE 2: Please refer to section 5 for bandwidth and RB setting about LTE bands.

TEST SETUP

Test Setup for Below 1 GHz



Test Setup for Above 1 GHz



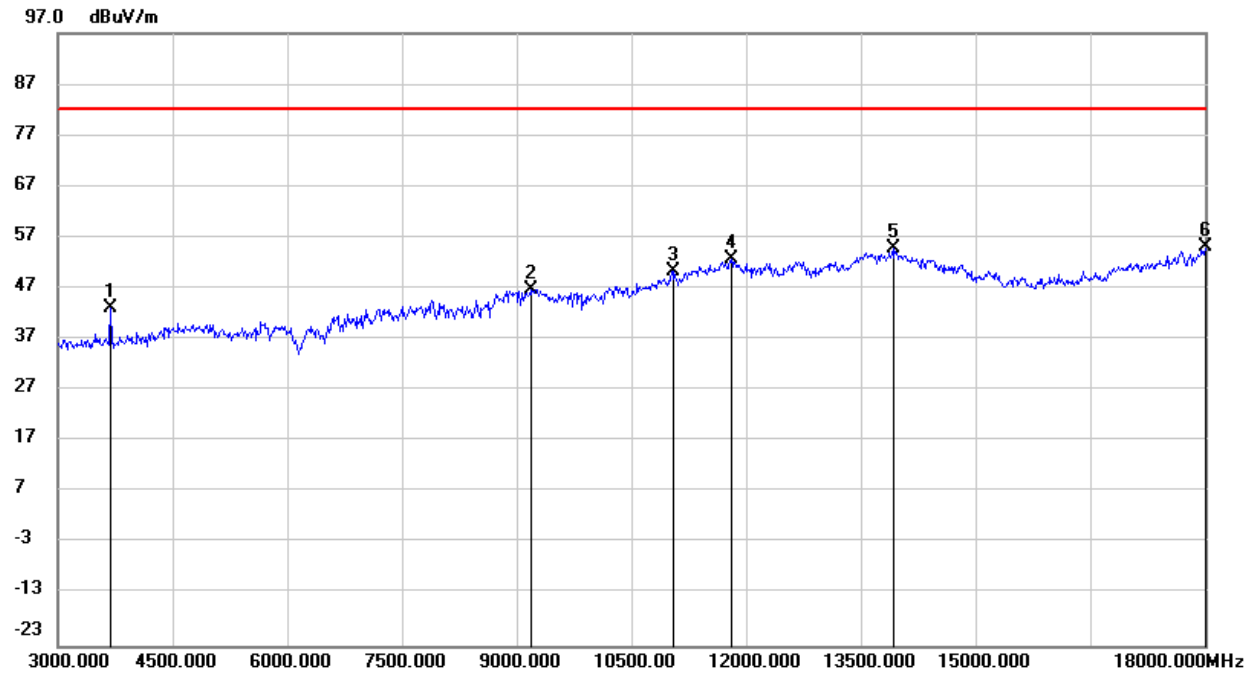
TEST ENVIRONMENT

Temperature	25.1 °C	Relative Humidity	63%
Atmosphere Pressure	101 kPa	Test Voltage	DC 7.6 V

RESULTS

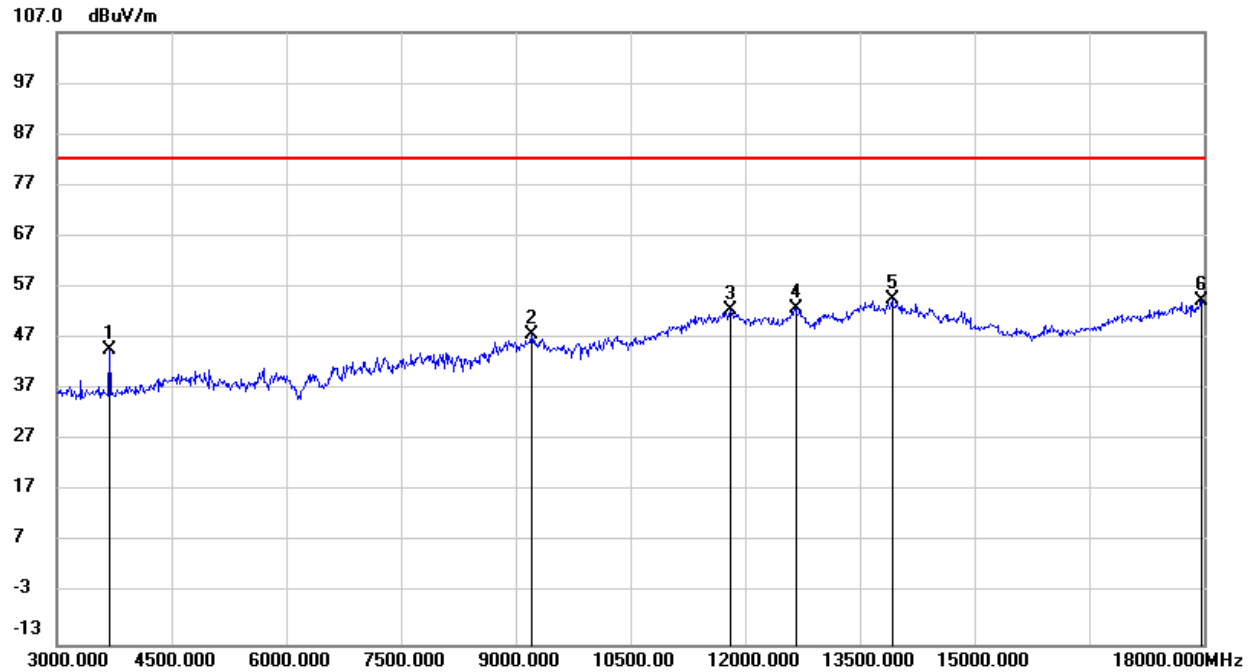
LTE Band 2

QPSK-20 MHz-Low Channel- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3690.000	47.69	-4.52	43.17	82.25	-39.08	peak
2	9180.000	36.21	10.56	46.77	82.25	-35.48	peak
3	11055.000	35.45	14.96	50.41	82.25	-31.84	peak
4	11805.000	35.22	17.43	52.65	82.25	-29.60	peak
5	13920.000	33.05	21.79	54.84	82.25	-27.41	peak
6	18000.000	29.57	25.69	55.26	82.25	-26.99	peak

QPSK-20 MHz-Low Channel-Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3690.000	49.20	-4.52	44.68	82.25	-37.57	peak
2	9210.000	37.19	10.57	47.76	82.25	-34.49	peak
3	11805.000	35.25	17.43	52.68	82.25	-29.57	peak
4	12660.000	34.94	17.95	52.89	82.25	-29.36	peak
5	13920.000	32.79	21.79	54.58	82.25	-27.67	peak
6	17970.000	28.85	25.51	54.36	82.25	-27.89	peak

QPSK-20 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3750.000	49.96	-4.38	45.58	82.25	-36.67	peak
2	9255.000	36.57	10.59	47.16	82.25	-35.09	peak
3	11790.000	35.64	17.38	53.02	82.25	-29.23	peak
4	13470.000	33.80	20.77	54.57	82.25	-27.68	peak
5	14280.000	33.70	20.82	54.52	82.25	-27.73	peak
6	17970.000	28.87	25.51	54.38	82.25	-27.87	peak

QPSK-20 MHz- Mid Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5640.000	46.02	1.24	47.26	82.25	-34.99	peak
2	9120.000	36.33	10.53	46.86	82.25	-35.39	peak
3	11640.000	35.03	16.98	52.01	82.25	-30.24	peak
4	12660.000	35.60	17.95	53.55	82.25	-28.70	peak
5	13920.000	32.69	21.79	54.48	82.25	-27.77	peak
6	17970.000	28.79	25.51	54.30	82.25	-27.95	peak

QPSK-20 MHz-High Channel- Horizontal

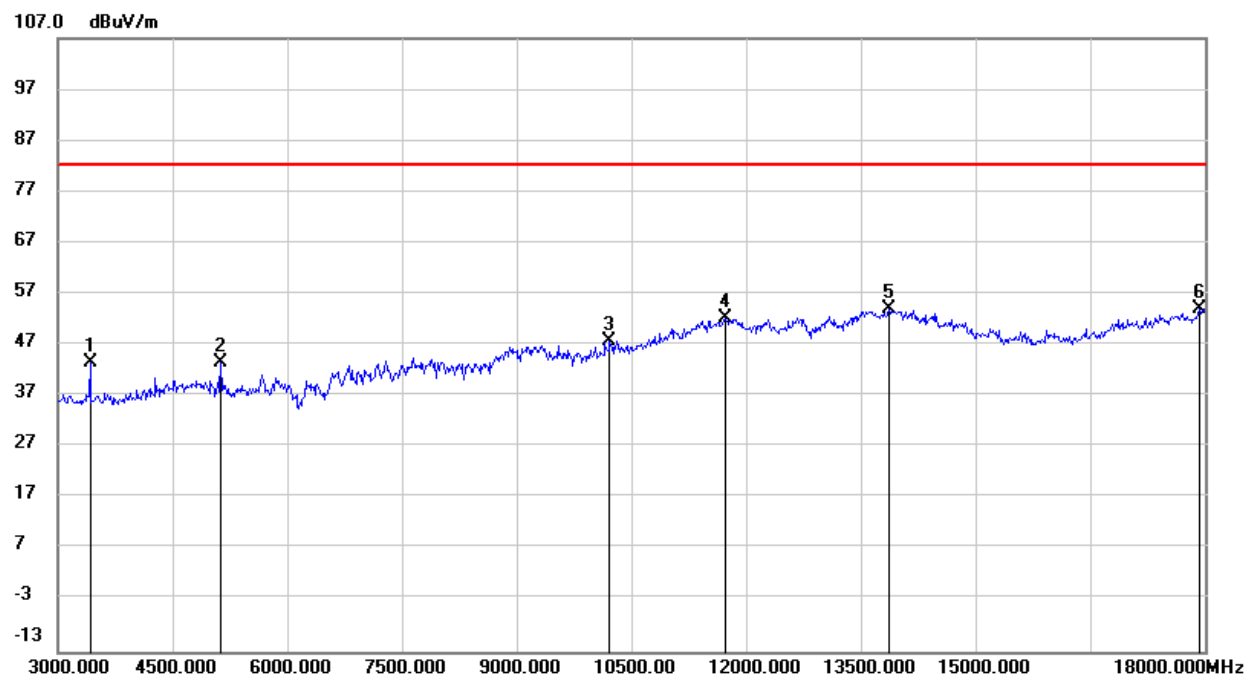
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5730.000	48.36	1.49	49.85	82.25	-32.40	peak
2	7635.000	40.51	6.33	46.84	82.25	-35.41	peak
3	9165.000	36.36	10.55	46.91	82.25	-35.34	peak
4	11835.000	34.59	17.51	52.10	82.25	-30.15	peak
5	13620.000	34.15	21.15	55.30	82.25	-26.95	peak
6	17955.000	29.82	25.42	55.24	82.25	-27.01	peak

QPSK-20 MHz- High Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3810.000	47.22	-4.24	42.98	82.25	-39.27	peak
2	5730.000	48.86	1.49	50.35	82.25	-31.90	peak
3	9135.000	36.87	10.55	47.42	82.25	-34.83	peak
4	11805.000	35.02	17.43	52.45	82.25	-29.80	peak
5	13530.000	33.61	20.96	54.57	82.25	-27.68	peak
6	17865.000	29.08	24.89	53.97	82.25	-28.28	peak

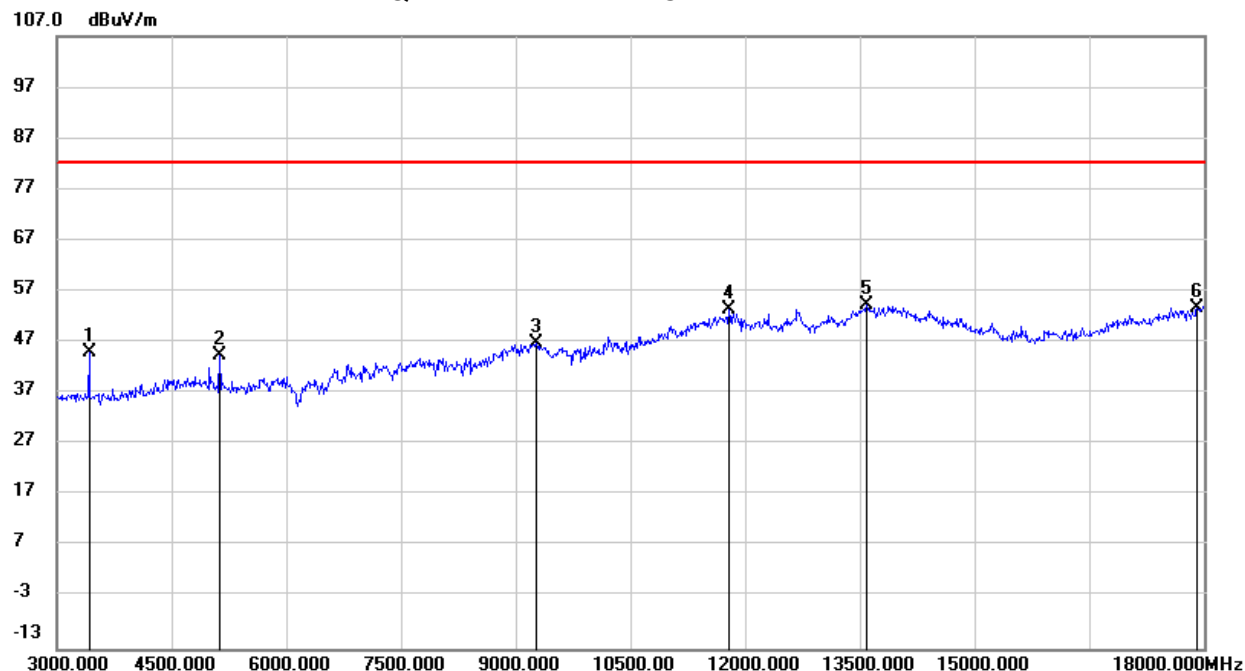
LTE Band 4

QPSK-1.4 MHz-Low Channel- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3420.000	48.67	-5.01	43.66	82.25	-38.59	peak
2	5130.000	42.99	0.55	43.54	82.25	-38.71	peak
3	10215.000	35.42	12.43	47.85	82.25	-34.40	peak
4	11730.000	35.02	17.22	52.24	82.25	-30.01	peak
5	13875.000	32.31	21.70	54.01	82.25	-28.24	peak
6	17925.000	28.87	25.25	54.12	82.25	-28.13	peak

QPSK-1.4 MHz-Low Channel- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3420.000	50.15	-5.01	45.14	82.25	-37.11	peak
2	5130.000	43.87	0.55	44.42	82.25	-37.83	peak
3	9270.000	36.11	10.59	46.70	82.25	-35.55	peak
4	11790.000	36.04	17.38	53.42	82.25	-28.83	peak
5	13590.000	33.17	21.09	54.26	82.25	-27.99	peak
6	17910.000	28.64	25.16	53.80	82.25	-28.45	peak

QPSK-1.4 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3465.000	46.00	-4.98	41.02	82.25	-41.23	peak
2	5190.000	40.46	0.60	41.06	82.25	-41.19	peak
3	9270.000	36.35	10.59	46.94	82.25	-35.31	peak
4	11760.000	34.97	17.31	52.28	82.25	-29.97	peak
5	13605.000	33.25	21.12	54.37	82.25	-27.88	peak
6	17970.000	29.21	25.51	54.72	82.25	-27.53	peak

QPSK-1.4 MHz-Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5190.000	40.73	0.60	41.33	82.25	-40.92	peak
2	7845.000	38.20	6.32	44.52	82.25	-37.73	peak
3	9135.000	37.43	10.55	47.98	82.25	-34.27	peak
4	11910.000	34.33	17.72	52.05	82.25	-30.20	peak
5	14010.000	32.96	21.93	54.89	82.25	-27.36	peak
6	17955.000	29.21	25.42	54.63	82.25	-27.62	peak

QPSK-1.4 MHz-High Channel- Horizontal

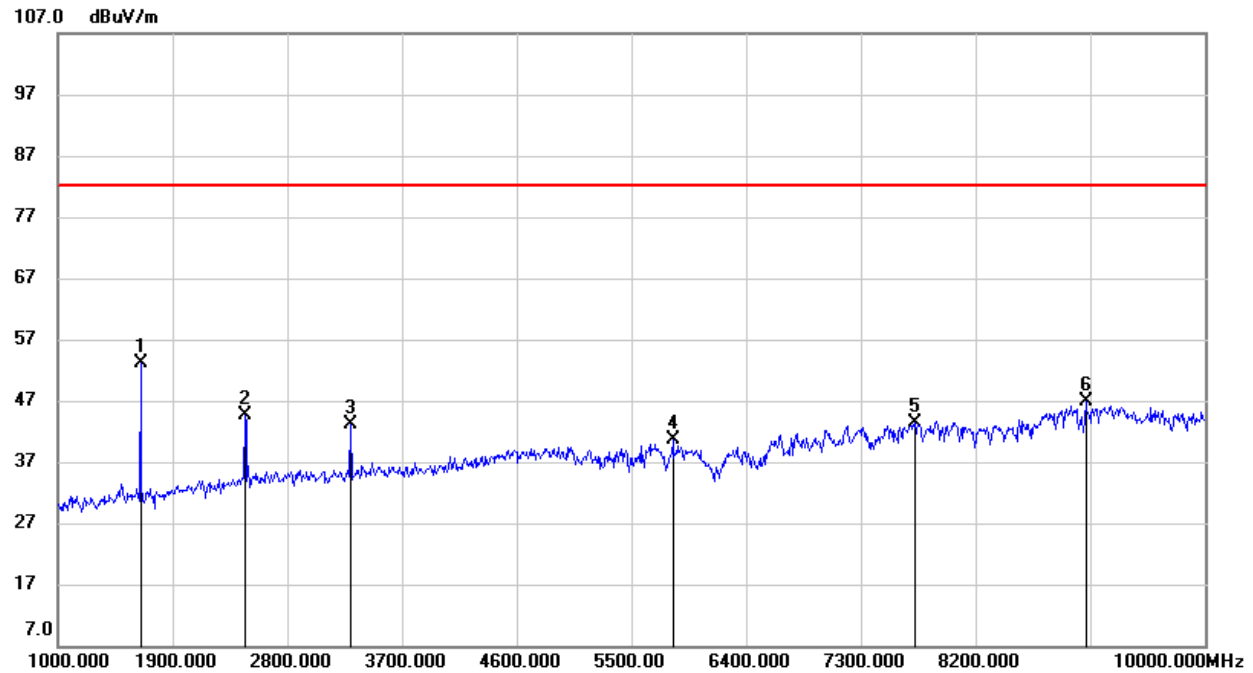
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3495.000	48.95	-4.96	43.99	82.25	-38.26	peak
2	9270.000	36.29	10.59	46.88	82.25	-35.37	peak
3	11055.000	36.25	14.96	51.21	82.25	-31.04	peak
4	11655.000	34.89	17.01	51.90	82.25	-30.35	peak
5	13605.000	33.55	21.12	54.67	82.25	-27.58	peak
6	17970.000	28.07	25.51	53.58	82.25	-28.67	peak

QPSK-1.4 MHz-High Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3495.000	47.87	-4.96	42.91	82.25	-39.34	peak
2	5250.000	42.74	0.64	43.38	82.25	-38.87	peak
3	9315.000	36.54	10.61	47.15	82.25	-35.10	peak
4	11790.000	35.73	17.38	53.11	82.25	-29.14	peak
5	13965.000	32.21	21.89	54.10	82.25	-28.15	peak
6	17970.000	29.01	25.51	54.52	82.25	-27.73	peak

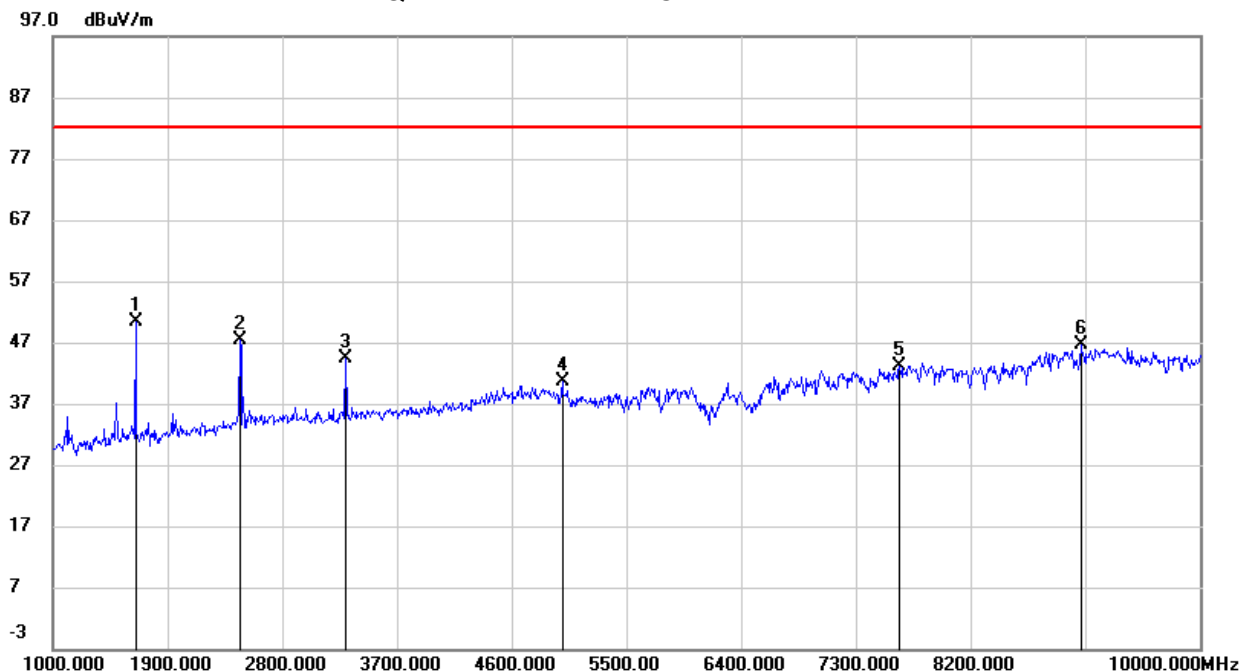
LTE Band 5

QPSK-1.4 MHz-Low Channel- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1648.000	65.25	-12.22	53.03	82.25	-29.22	peak
2	2467.000	53.40	-8.66	44.74	82.25	-37.51	peak
3	3295.000	49.52	-6.32	43.20	82.25	-39.05	peak
4	5824.000	39.31	1.34	40.65	82.25	-41.60	peak
5	7723.000	37.69	5.67	43.36	82.25	-38.89	peak
6	9064.000	37.05	9.76	46.81	82.25	-35.44	peak

QPSK-1.4 MHz-Low Channel- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1648.000	62.60	-12.22	50.38	82.25	-31.87	peak
2	2467.000	56.08	-8.66	47.42	82.25	-34.83	peak
3	3295.000	50.61	-6.32	44.29	82.25	-37.96	peak
4	4996.000	40.76	-0.17	40.59	82.25	-41.66	peak
5	7642.000	37.54	5.69	43.23	82.25	-39.02	peak
6	9064.000	36.77	9.76	46.53	82.25	-35.72	peak

QPSK-1.4 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1666.000	66.36	-12.16	54.20	82.25	-28.05	peak
2	2503.000	50.53	-8.48	42.05	82.25	-40.20	peak
3	3340.000	45.30	-6.22	39.08	82.25	-43.17	peak
4	4636.000	41.07	-1.59	39.48	82.25	-42.77	peak
5	7030.000	37.04	6.18	43.22	82.25	-39.03	peak
6	8911.000	37.06	9.11	46.17	82.25	-36.08	peak

QPSK-1.4 MHz-Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1666.000	63.38	-12.16	51.22	82.25	-31.03	peak
2	2503.000	54.47	-8.48	45.99	82.25	-36.26	peak
3	3340.000	48.51	-6.22	42.29	82.25	-39.96	peak
4	4816.000	40.69	-0.89	39.80	82.25	-42.45	peak
5	7039.000	37.02	6.17	43.19	82.25	-39.06	peak
6	9244.000	36.86	9.83	46.69	82.25	-35.56	peak

QPSK-1.4 MHz-High Channel- Horizontal

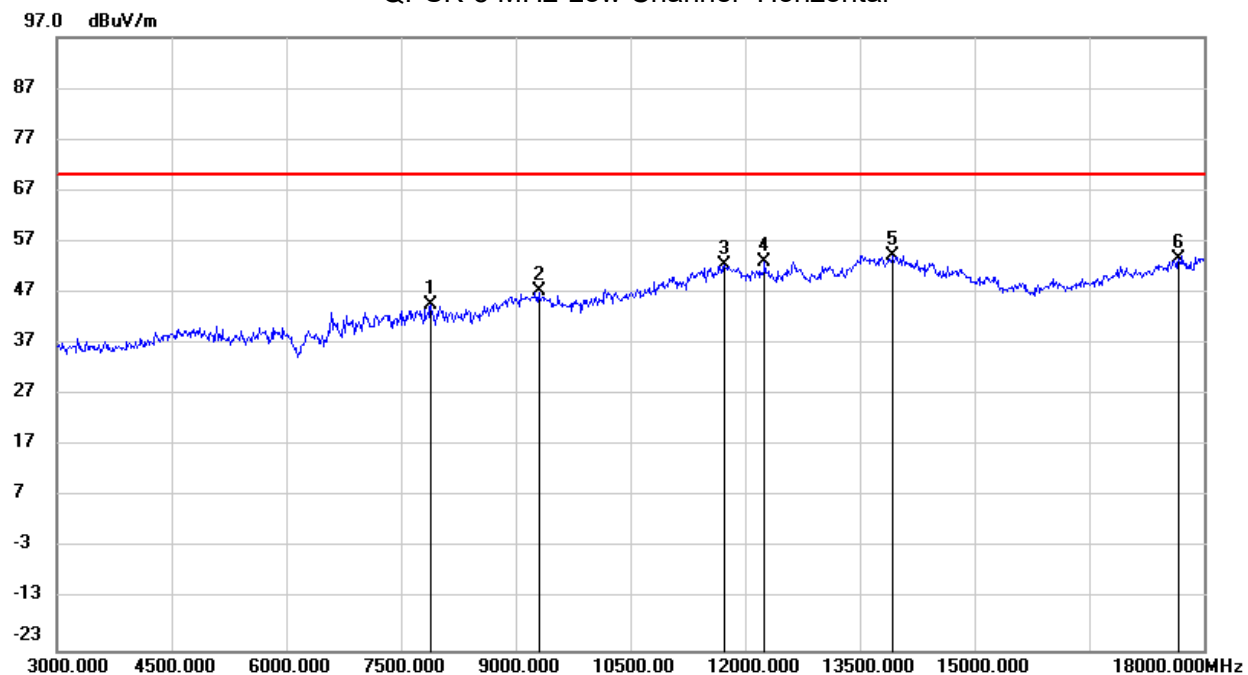
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1693.000	65.68	-12.08	53.60	82.25	-28.65	peak
2	2539.000	51.19	-8.37	42.82	82.25	-39.43	peak
3	3394.000	46.07	-6.09	39.98	82.25	-42.27	peak
4	4789.000	41.09	-1.00	40.09	82.25	-42.16	peak
5	7660.000	38.22	5.68	43.90	82.25	-38.35	peak
6	9145.000	36.11	9.80	45.91	82.25	-36.34	peak

QPSK-1.4 MHz-High Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1693.000	65.92	-12.08	53.84	82.25	-28.41	peak
2	2539.000	55.56	-8.37	47.19	82.25	-35.06	peak
3	3394.000	47.01	-6.09	40.92	82.25	-41.33	peak
4	4996.000	39.92	-0.17	39.75	82.25	-42.50	peak
5	7885.000	38.09	5.66	43.75	82.25	-38.50	peak
6	8920.000	36.80	9.17	45.97	82.25	-36.28	peak

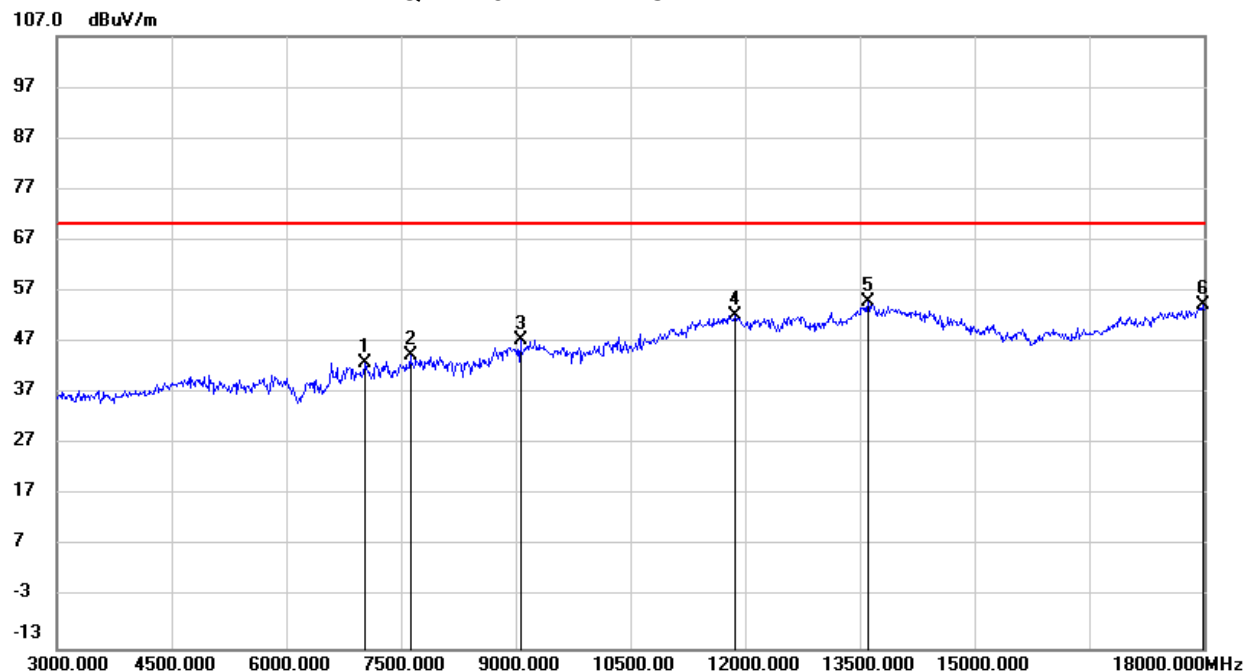
LTE Band 7

QPSK-5 MHz-Low Channel- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7890.000	38.40	6.31	44.71	70.25	-25.54	peak
2	9300.000	36.59	10.61	47.20	70.25	-23.05	peak
3	11730.000	35.13	17.22	52.35	70.25	-17.90	peak
4	12255.000	35.14	17.78	52.92	70.25	-17.33	peak
5	13935.000	32.47	21.82	54.29	70.25	-15.96	peak
6	17670.000	29.82	23.73	53.55	70.25	-16.70	peak

QPSK-5 MHz-Low Channel- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7035.000	36.28	6.67	42.95	70.25	-27.30	peak
2	7620.000	38.12	6.33	44.45	70.25	-25.80	peak
3	9060.000	36.95	10.51	47.46	70.25	-22.79	peak
4	11865.000	34.67	17.59	52.26	70.25	-17.99	peak
5	13605.000	33.77	21.12	54.89	70.25	-15.36	peak
6	17985.000	28.83	25.60	54.43	70.25	-15.82	peak

QPSK-5 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	42.84	0.43	43.27	70.25	-26.98	peak
2	7875.000	38.67	6.31	44.98	70.25	-25.27	peak
3	9255.000	36.79	10.59	47.38	70.25	-22.87	peak
4	11775.000	35.66	17.35	53.01	70.25	-17.24	peak
5	13995.000	32.62	21.95	54.57	70.25	-15.68	peak
6	18000.000	28.55	25.69	54.24	70.25	-16.01	peak

QPSK-5 MHz-Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7995.000	37.68	6.31	43.99	70.25	-26.26	peak
2	9240.000	36.30	10.58	46.88	70.25	-23.37	peak
3	11415.000	36.20	16.29	52.49	70.25	-17.76	peak
4	12660.000	34.81	17.95	52.76	70.25	-17.49	peak
5	13905.000	33.22	21.76	54.98	70.25	-15.27	peak
6	17985.000	29.25	25.60	54.85	70.25	-15.40	peak

QPSK-5 MHz-High Channel- Horizontal

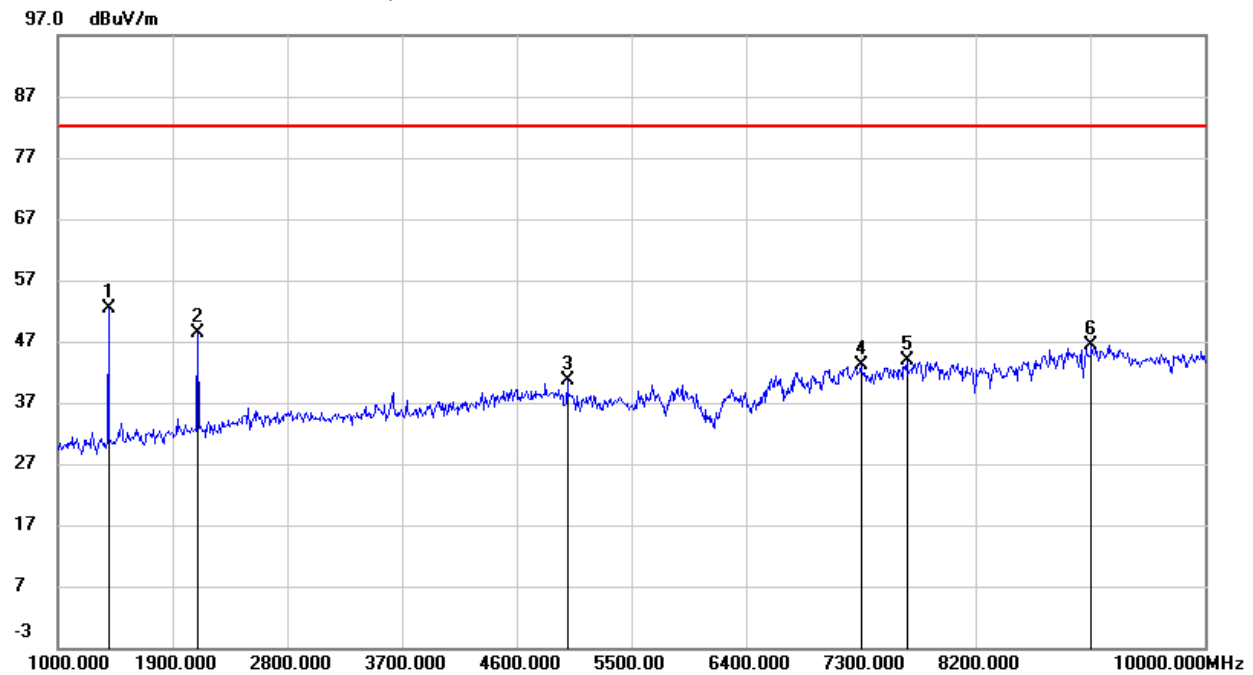
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7500.000	38.61	6.33	44.94	70.25	-25.31	peak
2	9255.000	36.13	10.59	46.72	70.25	-23.53	peak
3	11910.000	34.74	17.72	52.46	70.25	-17.79	peak
4	12690.000	34.18	18.02	52.20	70.25	-18.05	peak
5	13575.000	33.85	21.06	54.91	70.25	-15.34	peak
6	17970.000	28.63	25.51	54.14	70.25	-16.11	peak

QPSK-5 MHz-High Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7500.000	39.06	6.33	45.39	70.25	-24.86	peak
2	8865.000	37.92	9.50	47.42	70.25	-22.83	peak
3	11850.000	34.68	17.56	52.24	70.25	-18.01	peak
4	12690.000	34.60	18.02	52.62	70.25	-17.63	peak
5	13815.000	32.79	21.56	54.35	70.25	-15.90	peak
6	17970.000	29.03	25.51	54.54	70.25	-15.71	peak

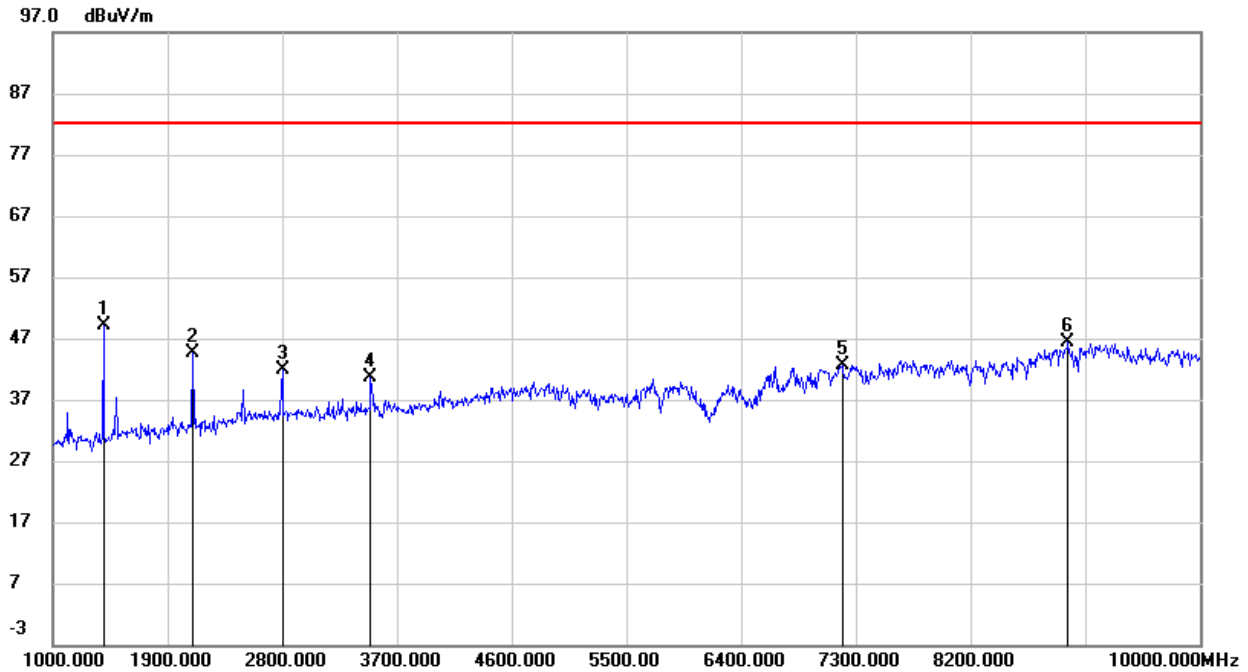
LTE Band 12

QPSK-1.4 MHz-Low Channel- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1396.000	65.49	-13.19	52.30	82.25	-29.95	peak
2	2098.000	58.86	-10.56	48.30	82.25	-33.95	peak
3	4996.000	40.76	-0.17	40.59	82.25	-41.66	peak
4	7300.000	37.36	5.89	43.25	82.25	-39.00	peak
5	7660.000	38.22	5.68	43.90	82.25	-38.35	peak
6	9109.000	36.52	9.78	46.30	82.25	-35.95	peak

QPSK-1.4 MHz-Low Channel- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1396.000	62.24	-13.19	49.05	82.25	-33.20	peak
2	2098.000	55.25	-10.56	44.69	82.25	-37.56	peak
3	2800.000	49.53	-7.58	41.95	82.25	-40.30	peak
4	3493.000	46.48	-5.86	40.62	82.25	-41.63	peak
5	7192.000	36.71	6.00	42.71	82.25	-39.54	peak
6	8965.000	36.79	9.49	46.28	82.25	-35.97	peak

QPSK-1.4 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1414.000	65.87	-13.11	52.76	82.25	-29.49	peak
2	2116.000	57.01	-10.47	46.54	82.25	-35.71	peak
3	2827.000	47.61	-7.50	40.11	82.25	-42.14	peak
4	4843.000	40.34	-0.78	39.56	82.25	-42.69	peak
5	7174.000	37.40	6.02	43.42	82.25	-38.83	peak
6	9199.000	36.19	9.82	46.01	82.25	-36.24	peak

QPSK-1.4 MHz-Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1423.000	65.77	-13.07	52.70	82.25	-29.55	peak
2	2143.000	56.28	-10.33	45.95	82.25	-36.30	peak
3	2854.000	49.16	-7.42	41.74	82.25	-40.51	peak
4	4852.000	40.78	-0.74	40.04	82.25	-42.21	peak
5	7498.000	38.19	5.69	43.88	82.25	-38.37	peak
6	9091.000	36.32	9.78	46.10	82.25	-36.15	peak

QPSK-1.4 MHz-High Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1423.000	59.35	-13.07	46.28	82.25	-35.97	peak
2	2143.000	51.36	-10.33	41.03	82.25	-41.22	peak
3	2854.000	54.52	-7.42	47.10	82.25	-35.15	peak
4	7012.000	36.77	6.18	42.95	82.25	-39.30	peak
5	7750.000	38.04	5.67	43.71	82.25	-38.54	peak
6	9145.000	37.74	9.80	47.54	82.25	-34.71	peak

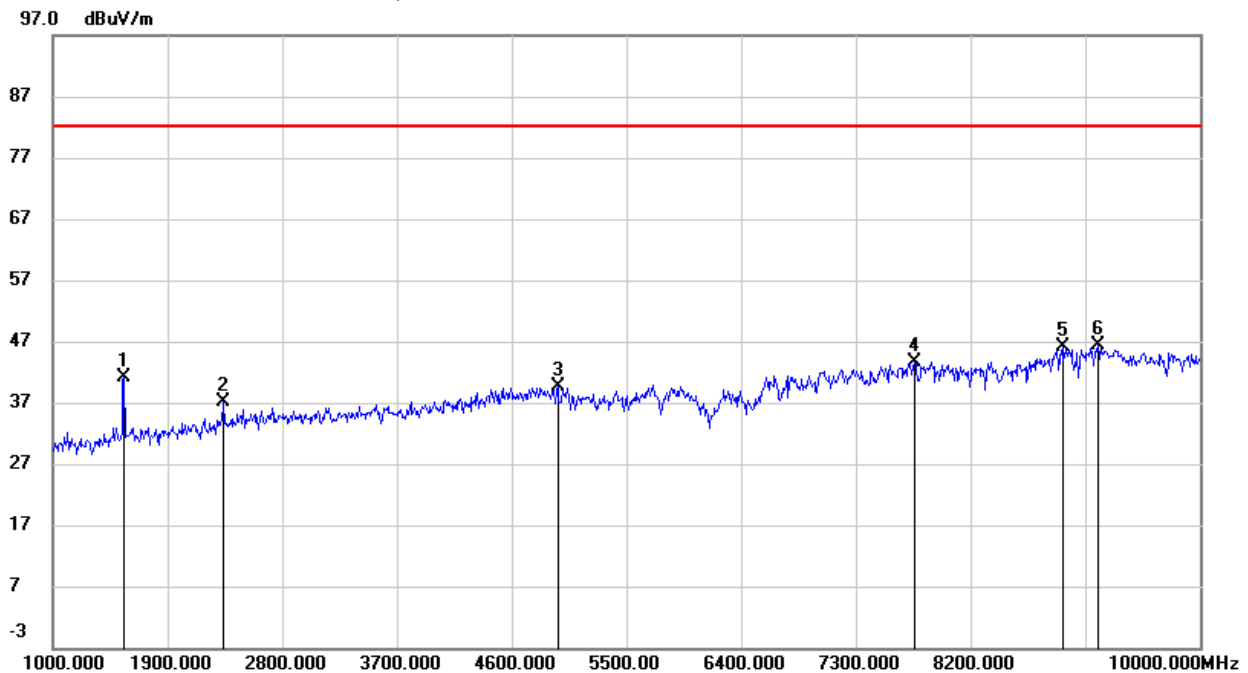
QPSK-1.4 MHz-High Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1414.000	63.43	-13.11	50.32	82.25	-31.93	peak
2	2116.000	54.65	-10.47	44.18	82.25	-38.07	peak
3	2827.000	51.91	-7.50	44.41	82.25	-37.84	peak
4	3538.000	49.32	-5.74	43.58	82.25	-38.67	peak
5	8785.000	37.29	8.23	45.52	82.25	-36.73	peak
6	9361.000	36.68	9.89	46.57	82.25	-35.68	peak

LTE Band 13

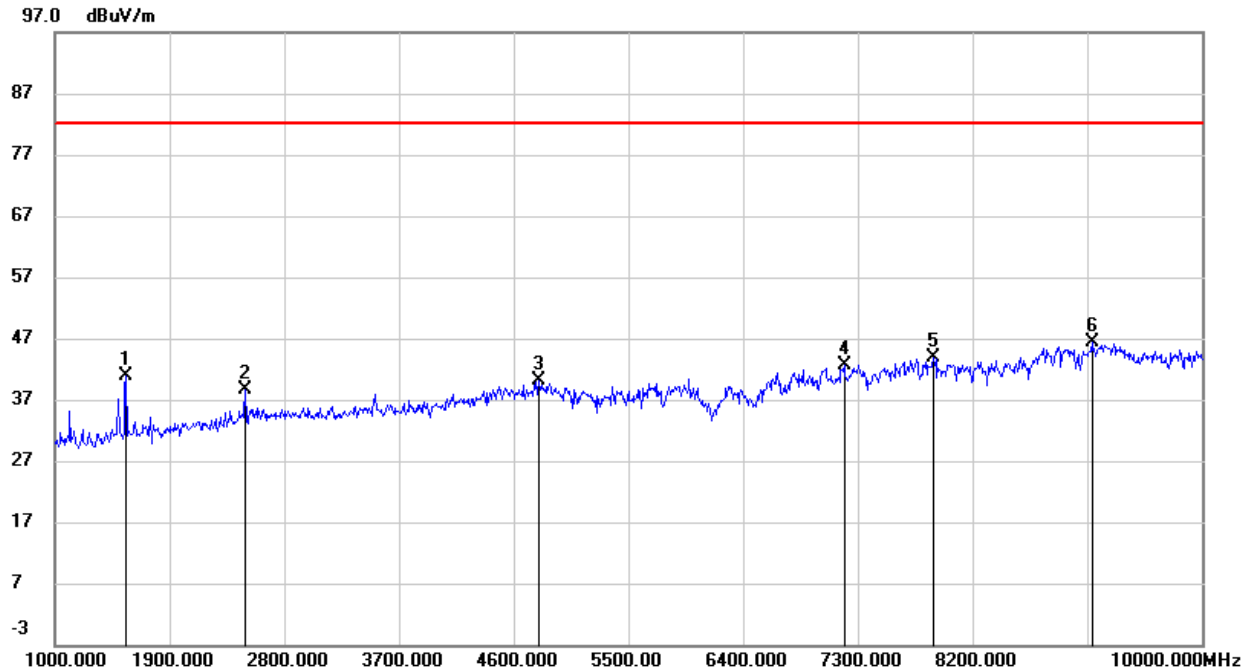
In the 1559-1610 MHz frequency, the limit is -80 dBW EIRP for narrowband and all modulation are tested and met requirements.

QPSK-5 MHz- Low Channel-Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1558.000	53.71	-12.52	41.19	82.25	-41.06	peak
2	2341.000	46.39	-9.30	37.09	82.25	-45.16	peak
3	4960.000	39.96	-0.32	39.64	82.25	-42.61	peak
4	7759.000	37.90	5.67	43.57	82.25	-38.68	peak
5	8929.000	36.78	9.23	46.01	82.25	-36.24	peak
6	9199.000	36.56	9.82	46.38	82.25	-35.87	peak

QPSK-5 MHz-Low Channel-Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1558.000	53.37	-12.52	40.85	82.25	-41.40	peak
2	2494.000	47.18	-8.52	38.66	82.25	-43.59	peak
3	4798.000	40.99	-0.95	40.04	82.25	-42.21	peak
4	7192.000	36.62	6.00	42.62	82.25	-39.63	peak
5	7894.000	38.14	5.66	43.80	82.25	-38.45	peak
6	9136.000	36.59	9.80	46.39	82.25	-35.86	peak

QPSK-5 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1558.000	53.71	-12.52	41.19	82.25	-41.06	peak
2	2494.000	45.85	-8.52	37.33	82.25	-44.92	peak
3	4906.000	40.59	-0.53	40.06	82.25	-42.19	peak
4	6661.000	38.34	4.52	42.86	82.25	-39.39	peak
5	7885.000	38.69	5.66	44.35	82.25	-37.90	peak
6	8992.000	36.60	9.68	46.28	82.25	-35.97	peak

QPSK-5 MHz-Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1558.000	54.56	-12.52	42.04	82.25	-40.21	peak
2	2494.000	47.22	-8.52	38.70	82.25	-43.55	peak
3	4933.000	40.32	-0.42	39.90	82.25	-42.35	peak
4	7039.000	36.51	6.17	42.68	82.25	-39.57	peak
5	7966.000	37.76	5.65	43.41	82.25	-38.84	peak
6	9235.000	36.61	9.84	46.45	82.25	-35.80	peak

QPSK-5 MHz-High Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1567.000	53.62	-12.49	41.13	55.25	-14.12	peak
2	2494.000	45.69	-8.52	37.17	82.25	-45.08	peak
3	4753.000	40.86	-1.13	39.73	82.25	-42.52	peak
4	7282.000	36.87	5.91	42.78	82.25	-39.47	peak
5	7867.000	37.64	5.66	43.30	82.25	-38.95	peak
6	8965.000	36.89	9.49	46.38	82.25	-35.87	peak

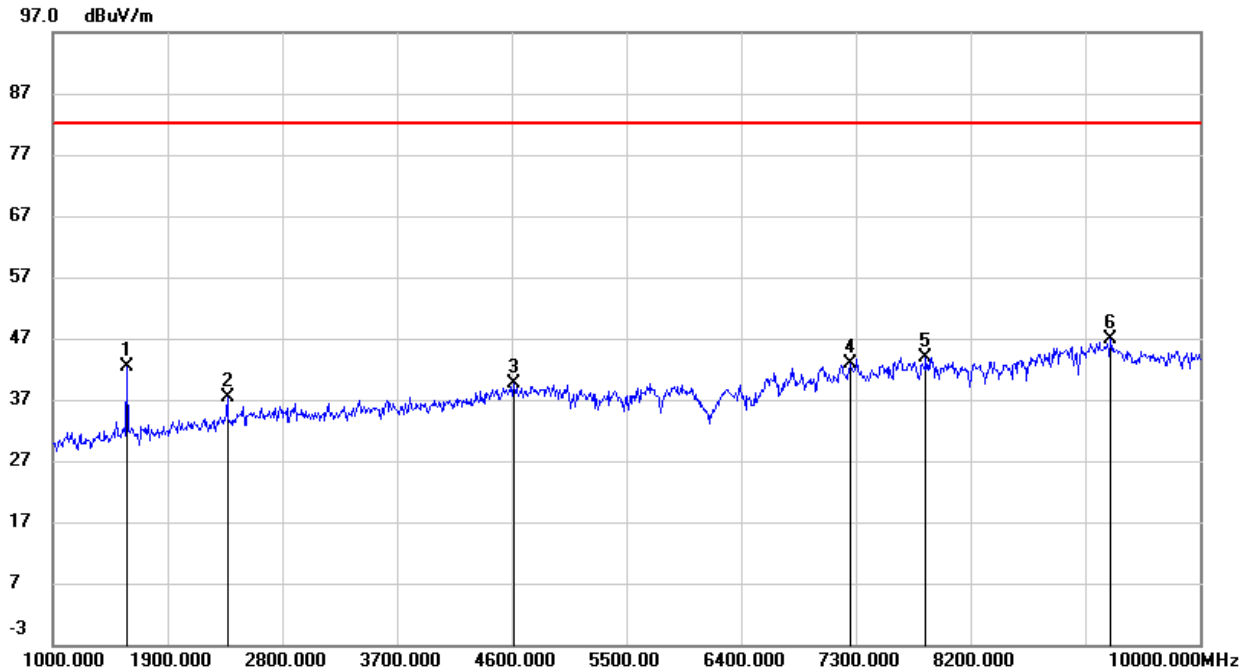
QPSK-5 MHz-High Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1567.000	54.32	-12.49	41.83	55.25	-13.42	peak
2	2494.000	47.53	-8.52	39.01	82.25	-43.24	peak
3	4879.000	40.47	-0.63	39.84	82.25	-42.41	peak
4	7489.000	37.22	5.70	42.92	82.25	-39.33	peak
5	8866.000	37.08	8.80	45.88	82.25	-36.37	peak
6	9190.000	36.86	9.81	46.67	82.25	-35.58	peak

LTE Band 14

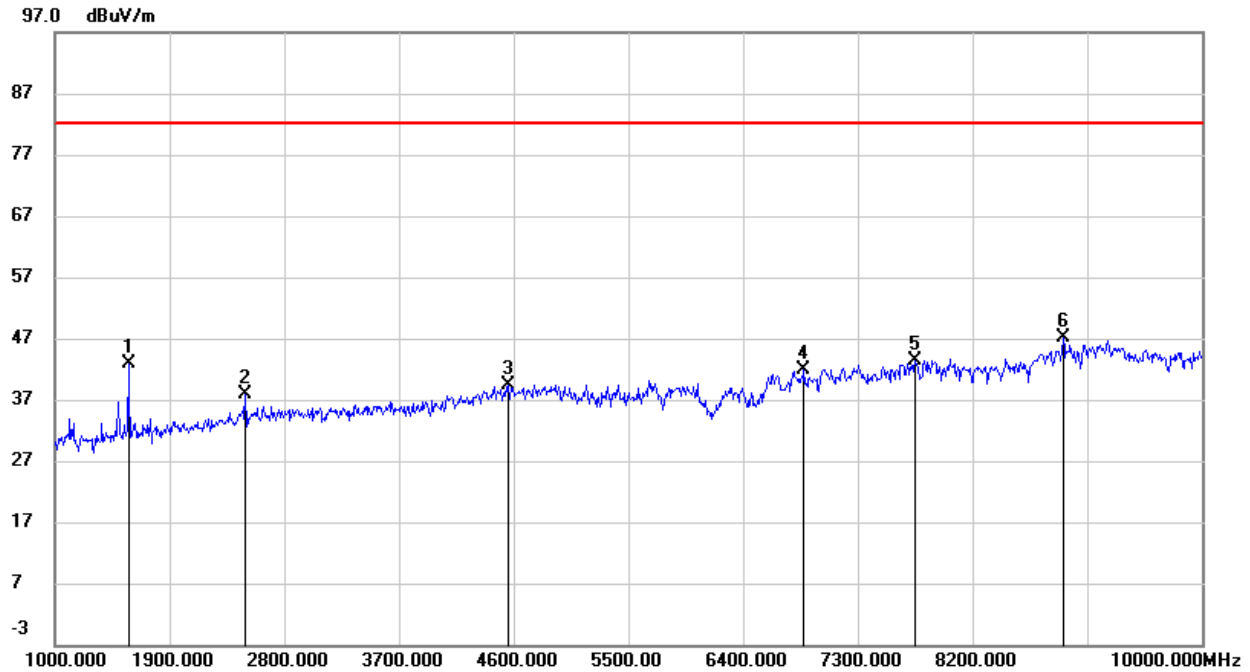
In the 1559-1610 MHz frequency, the limit is -80 dBW EIRP for narrowband and all modulation are tested and met requirements.

QPSK-5 MHz- Low Channel-Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1576.000	54.76	-12.46	42.30	55.25	-12.95	peak
2	2368.000	46.48	-9.16	37.32	82.25	-44.93	peak
3	4618.000	41.32	-1.67	39.65	82.25	-42.60	peak
4	7255.000	36.90	5.94	42.84	82.25	-39.41	peak
5	7849.000	38.31	5.67	43.98	82.25	-38.27	peak
6	9298.000	37.00	9.86	46.86	82.25	-35.39	peak

QPSK-5 MHz-Low Channel-Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1576.000	55.34	-12.46	42.88	55.25	-12.37	peak
2	2494.000	46.37	-8.52	37.85	82.25	-44.40	peak
3	4555.000	41.25	-1.92	39.33	82.25	-42.92	peak
4	6877.000	36.31	5.60	41.91	82.25	-40.34	peak
5	7750.000	37.79	5.67	43.46	82.25	-38.79	peak
6	8911.000	37.90	9.11	47.01	82.25	-35.24	peak

QPSK-5 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1585.000	53.60	-12.43	41.17	55.25	-14.08	peak
2	3484.000	42.99	-5.89	37.10	82.25	-45.15	peak
3	4933.000	39.63	-0.42	39.21	82.25	-43.04	peak
4	6949.000	36.30	5.95	42.25	82.25	-40.00	peak
5	7885.000	38.36	5.66	44.02	82.25	-38.23	peak
6	9154.000	36.19	9.80	45.99	82.25	-36.26	peak

QPSK-5 MHz-Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1585.000	55.34	-12.43	42.91	55.25	-12.34	peak
2	2494.000	47.57	-8.52	39.05	82.25	-43.20	peak
3	4555.000	41.77	-1.92	39.85	82.25	-42.40	peak
4	6670.000	37.51	4.57	42.08	82.25	-40.17	peak
5	7642.000	38.30	5.69	43.99	82.25	-38.26	peak
6	9334.000	37.22	9.87	47.09	82.25	-35.16	peak

QPSK-5 MHz-High Channel- Horizontal

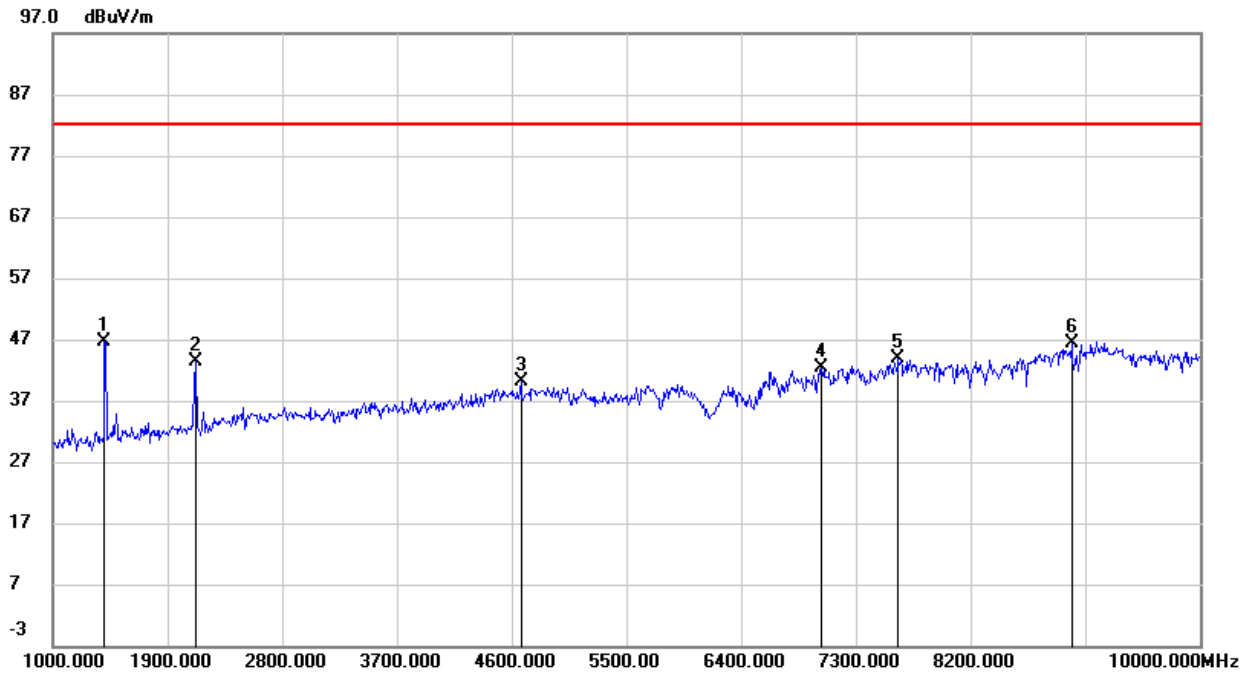
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1585.000	55.76	-12.43	43.33	55.25	-11.92	peak
2	2386.000	46.66	-9.08	37.58	82.25	-44.67	peak
3	4816.000	40.90	-0.89	40.01	82.25	-42.24	peak
4	7318.000	36.92	5.88	42.80	82.25	-39.45	peak
5	8920.000	36.53	9.17	45.70	82.25	-36.55	peak
6	9262.000	36.08	9.84	45.92	82.25	-36.33	peak

QPSK-5 MHz-High Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1585.000	55.60	-12.43	43.17	55.25	-12.08	peak
2	2494.000	47.15	-8.52	38.63	82.25	-43.62	peak
3	4483.000	42.31	-2.21	40.10	82.25	-42.15	peak
4	5959.000	38.33	1.74	40.07	82.25	-42.18	peak
5	7696.000	37.99	5.68	43.67	82.25	-38.58	peak
6	9145.000	37.77	9.80	47.57	82.25	-34.68	peak

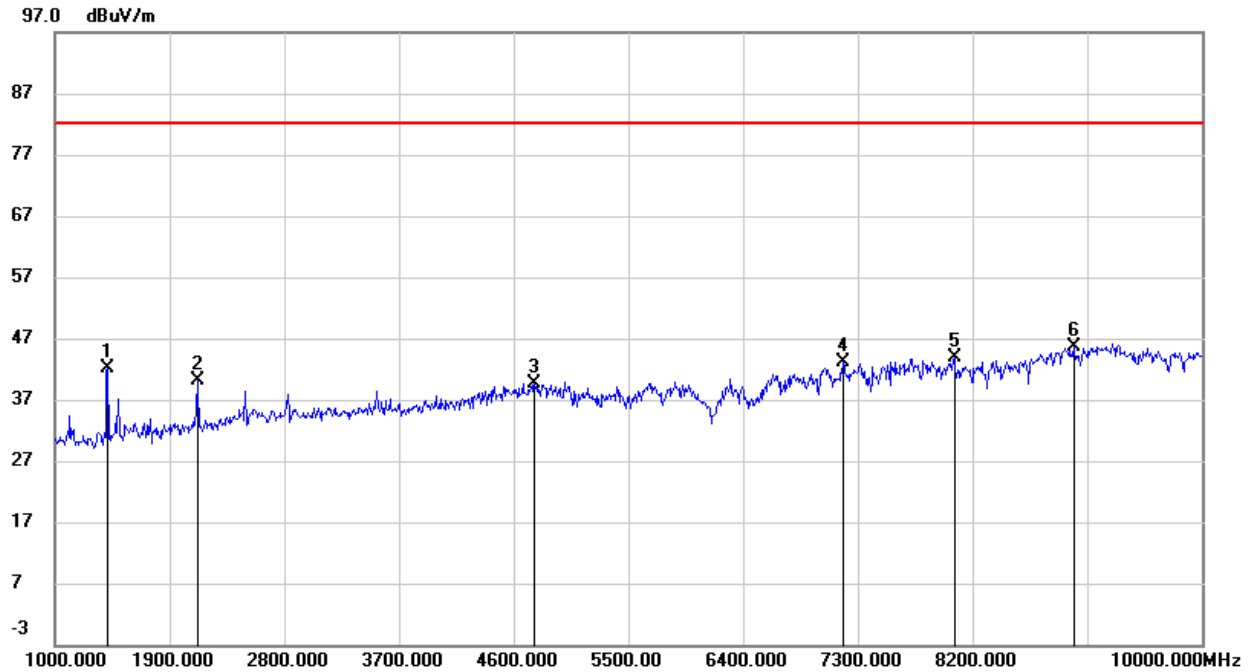
LTE Band 17

QPSK-5 MHz-Low Channel- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1405.000	59.87	-13.15	46.72	82.25	-35.53	peak
2	2116.000	53.82	-10.47	43.35	82.25	-38.90	peak
3	4672.000	41.48	-1.46	40.02	82.25	-42.23	peak
4	7030.000	36.32	6.18	42.50	82.25	-39.75	peak
5	7633.000	38.09	5.68	43.77	82.25	-38.48	peak
6	8992.000	36.58	9.68	46.26	82.25	-35.99	peak

QPSK-5 MHz-Low Channel- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1414.000	55.30	-13.11	42.19	82.25	-40.06	peak
2	2116.000	50.49	-10.47	40.02	82.25	-42.23	peak
3	4762.000	40.76	-1.10	39.66	82.25	-42.59	peak
4	7183.000	37.12	6.01	43.13	82.25	-39.12	peak
5	8056.000	38.12	5.72	43.84	82.25	-38.41	peak
6	8992.000	36.07	9.68	45.75	82.25	-36.50	peak

QPSK-5 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1414.000	59.19	-13.11	46.08	82.25	-36.17	peak
2	2125.000	52.76	-10.42	42.34	82.25	-39.91	peak
3	4861.000	40.28	-0.70	39.58	82.25	-42.67	peak
4	7318.000	37.03	5.88	42.91	82.25	-39.34	peak
5	8920.000	36.79	9.17	45.96	82.25	-36.29	peak
6	9235.000	36.29	9.84	46.13	82.25	-36.12	peak

QPSK-5 MHz-Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1414.000	56.87	-13.11	43.76	82.25	-38.49	peak
2	2494.000	46.61	-8.52	38.09	82.25	-44.16	peak
3	4879.000	40.99	-0.63	40.36	82.25	-41.89	peak
4	7300.000	37.47	5.89	43.36	82.25	-38.89	peak
5	8866.000	37.32	8.80	46.12	82.25	-36.13	peak
6	9271.000	36.57	9.84	46.41	82.25	-35.84	peak

QPSK-5 MHz-High Channel- Horizontal

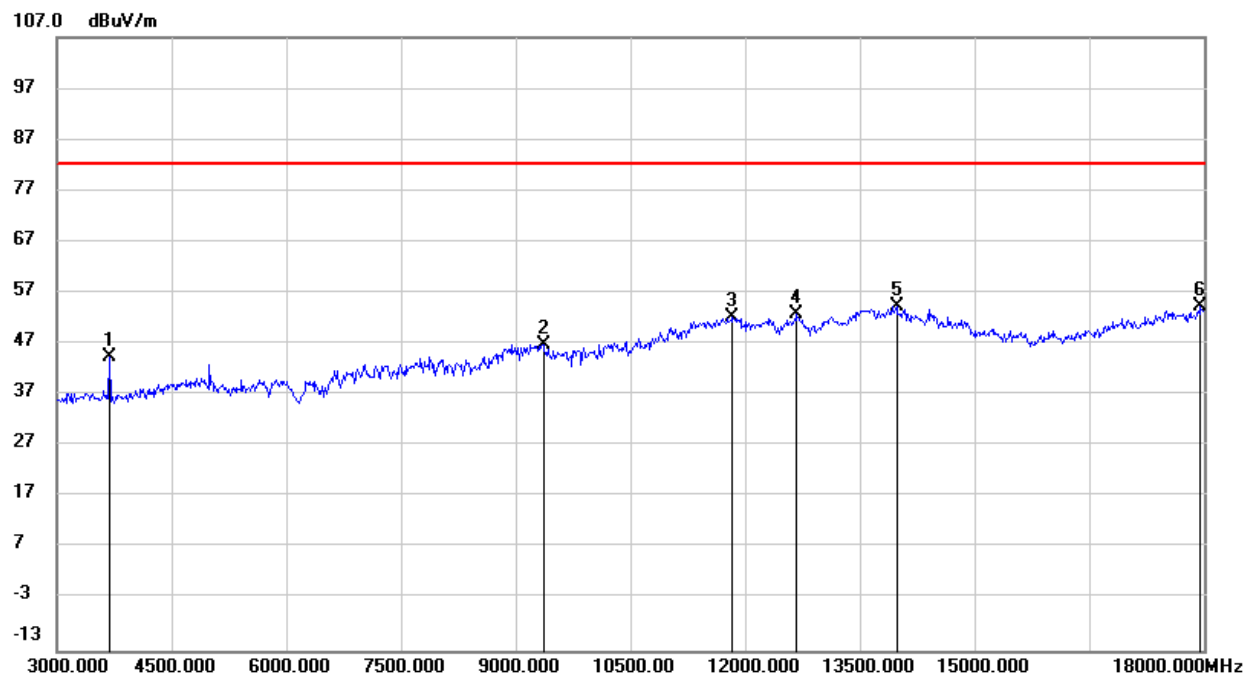
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1423.000	60.82	-13.07	47.75	82.25	-34.50	peak
2	2134.000	52.18	-10.37	41.81	82.25	-40.44	peak
3	4888.000	41.32	-0.60	40.72	82.25	-41.53	peak
4	7183.000	36.74	6.01	42.75	82.25	-39.50	peak
5	8011.000	38.49	5.67	44.16	82.25	-38.09	peak
6	8956.000	37.17	9.43	46.60	82.25	-35.65	peak

QPSK-5 MHz-High Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1423.000	54.39	-13.07	41.32	82.25	-40.93	peak
2	2494.000	47.58	-8.52	39.06	82.25	-43.19	peak
3	2854.000	46.28	-7.42	38.86	82.25	-43.39	peak
4	5014.000	39.55	-0.13	39.42	82.25	-42.83	peak
5	7012.000	37.03	6.18	43.21	82.25	-39.04	peak
6	9064.000	36.51	9.76	46.27	82.25	-35.98	peak

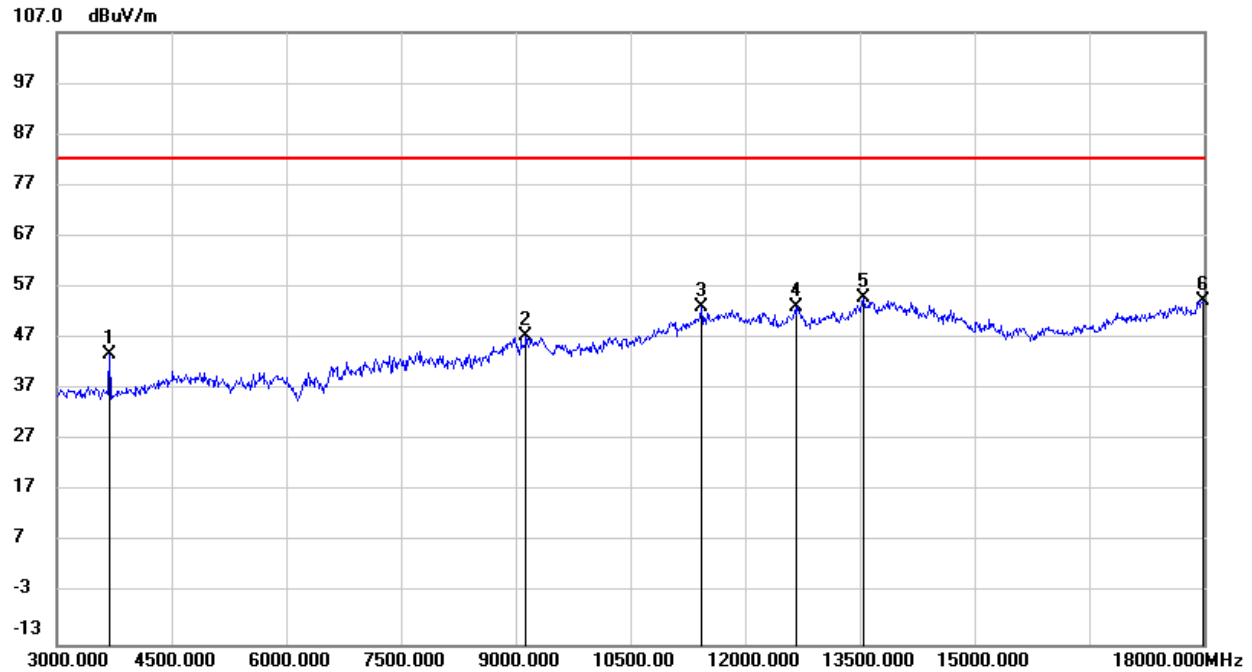
LTE Band 25

QPSK-1.4 MHz-Low Channel- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3690.000	49.11	-4.52	44.59	82.25	-37.66	peak
2	9360.000	36.31	10.64	46.95	82.25	-35.30	peak
3	11835.000	34.73	17.51	52.24	82.25	-30.01	peak
4	12675.000	34.97	17.99	52.96	82.25	-29.29	peak
5	13980.000	32.40	21.92	54.32	82.25	-27.93	peak
6	17955.000	28.85	25.42	54.27	82.25	-27.98	peak

QPSK-1.4 MHz-Low Channel- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3690.000	48.26	-4.52	43.74	82.25	-38.51	peak
2	9135.000	36.92	10.55	47.47	82.25	-34.78	peak
3	11430.000	36.85	16.34	53.19	82.25	-29.06	peak
4	12675.000	35.10	17.99	53.09	82.25	-29.16	peak
5	13545.000	33.82	20.99	54.81	82.25	-27.44	peak
6	17985.000	28.87	25.60	54.47	82.25	-27.78	peak

QPSK-1.4 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3765.000	47.50	-4.35	43.15	82.25	-39.10	peak
2	9255.000	36.29	10.59	46.88	82.25	-35.37	peak
3	11730.000	35.37	17.22	52.59	82.25	-29.66	peak
4	12630.000	35.07	17.89	52.96	82.25	-29.29	peak
5	13605.000	33.43	21.12	54.55	82.25	-27.70	peak
6	17970.000	29.30	25.51	54.81	82.25	-27.44	peak

QPSK-1.4 MHz-Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3765.000	47.03	-4.35	42.68	82.25	-39.57	peak
2	9360.000	36.46	10.64	47.10	82.25	-35.15	peak
3	11400.000	35.92	16.23	52.15	82.25	-30.10	peak
4	12660.000	34.68	17.95	52.63	82.25	-29.62	peak
5	13920.000	32.62	21.79	54.41	82.25	-27.84	peak
6	17970.000	28.51	25.51	54.02	82.25	-28.23	peak

QPSK-1.4 MHz-High Channel- Horizontal

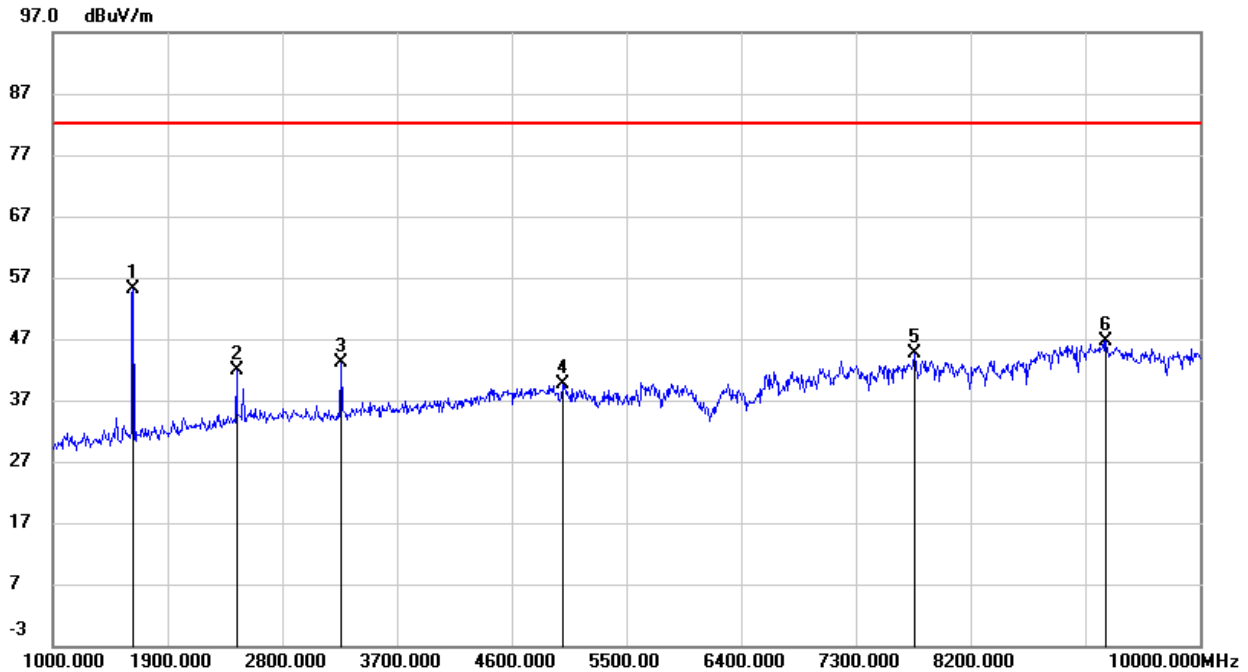
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7650.000	39.86	6.33	46.19	82.25	-36.06	peak
2	9210.000	36.56	10.57	47.13	82.25	-35.12	peak
3	11520.000	36.00	16.65	52.65	82.25	-29.60	peak
4	12690.000	35.10	18.02	53.12	82.25	-29.13	peak
5	13890.000	32.39	21.72	54.11	82.25	-28.14	peak
6	18000.000	28.39	25.69	54.08	82.25	-28.17	peak

QPSK-1.4 MHz-High Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3825.000	45.07	-4.21	40.86	82.25	-41.39	peak
2	7650.000	39.65	6.33	45.98	82.25	-36.27	peak
3	9135.000	36.79	10.55	47.34	82.25	-34.91	peak
4	11400.000	36.37	16.23	52.60	82.25	-29.65	peak
5	13860.000	33.76	21.67	55.43	82.25	-26.82	peak
6	17940.000	28.96	25.34	54.30	82.25	-27.95	peak

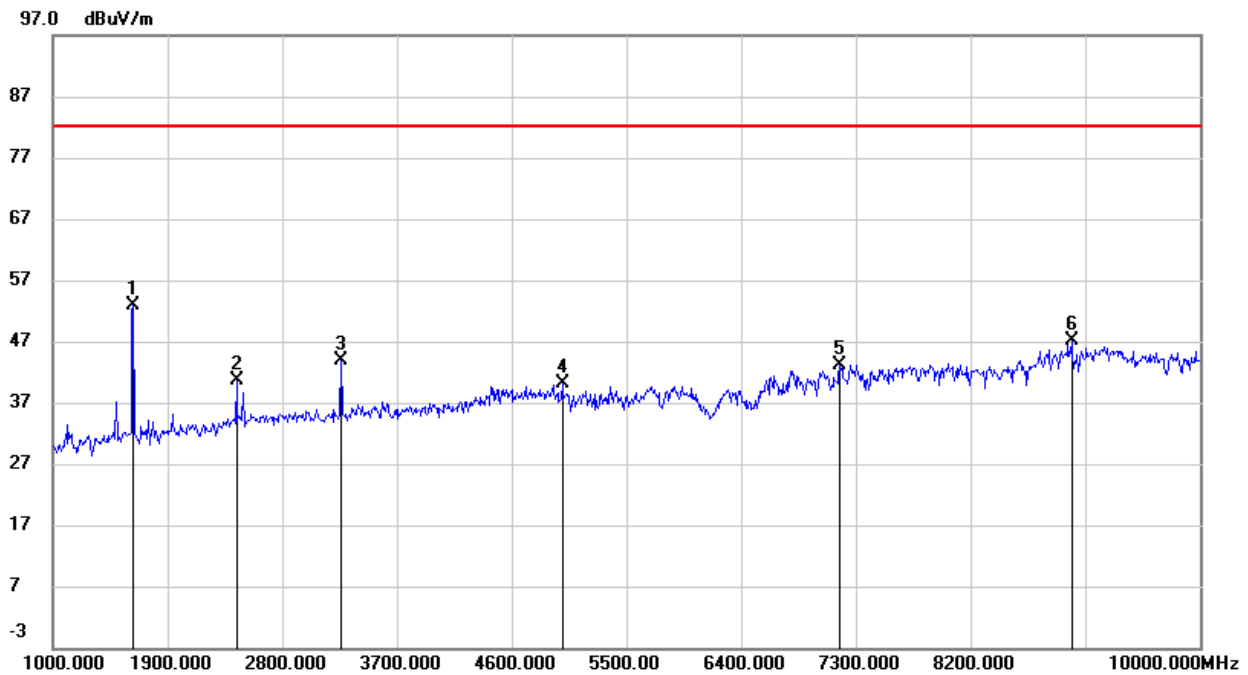
LTE Band 26

QPSK-1.4 MHz-Low Channel- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1630.000	67.42	-12.28	55.14	82.25	-27.11	peak
2	2440.000	50.65	-8.80	41.85	82.25	-40.40	peak
3	3259.000	49.43	-6.40	43.03	82.25	-39.22	peak
4	4996.000	39.90	-0.17	39.73	82.25	-42.52	peak
5	7759.000	38.93	5.67	44.60	82.25	-37.65	peak
6	9262.000	36.75	9.84	46.59	82.25	-35.66	peak

QPSK-1.4 MHz-Low Channel- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1630.000	65.18	-12.28	52.90	82.25	-29.35	peak
2	2440.000	49.36	-8.80	40.56	82.25	-41.69	peak
3	3259.000	50.36	-6.40	43.96	82.25	-38.29	peak
4	4996.000	40.24	-0.17	40.07	82.25	-42.18	peak
5	7174.000	37.07	6.02	43.09	82.25	-39.16	peak
6	8992.000	37.43	9.68	47.11	82.25	-35.14	peak

QPSK-1.4 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1630.000	63.52	-12.28	51.24	82.25	-31.01	peak
2	2449.000	49.03	-8.75	40.28	82.25	-41.97	peak
3	3277.000	48.39	-6.36	42.03	82.25	-40.22	peak
4	5869.000	39.12	1.48	40.60	82.25	-41.65	peak
5	7723.000	37.85	5.67	43.52	82.25	-38.73	peak
6	9244.000	36.83	9.83	46.66	82.25	-35.59	peak

QPSK-1.4 MHz-Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1630.000	66.48	-12.28	54.20	82.25	-28.05	peak
2	2458.000	50.14	-8.71	41.43	82.25	-40.82	peak
3	3277.000	47.94	-6.36	41.58	82.25	-40.67	peak
4	7174.000	36.95	6.02	42.97	82.25	-39.28	peak
5	7759.000	38.33	5.67	44.00	82.25	-38.25	peak
6	8911.000	37.09	9.11	46.20	82.25	-36.05	peak

QPSK-1.4 MHz-High Channel- Horizontal

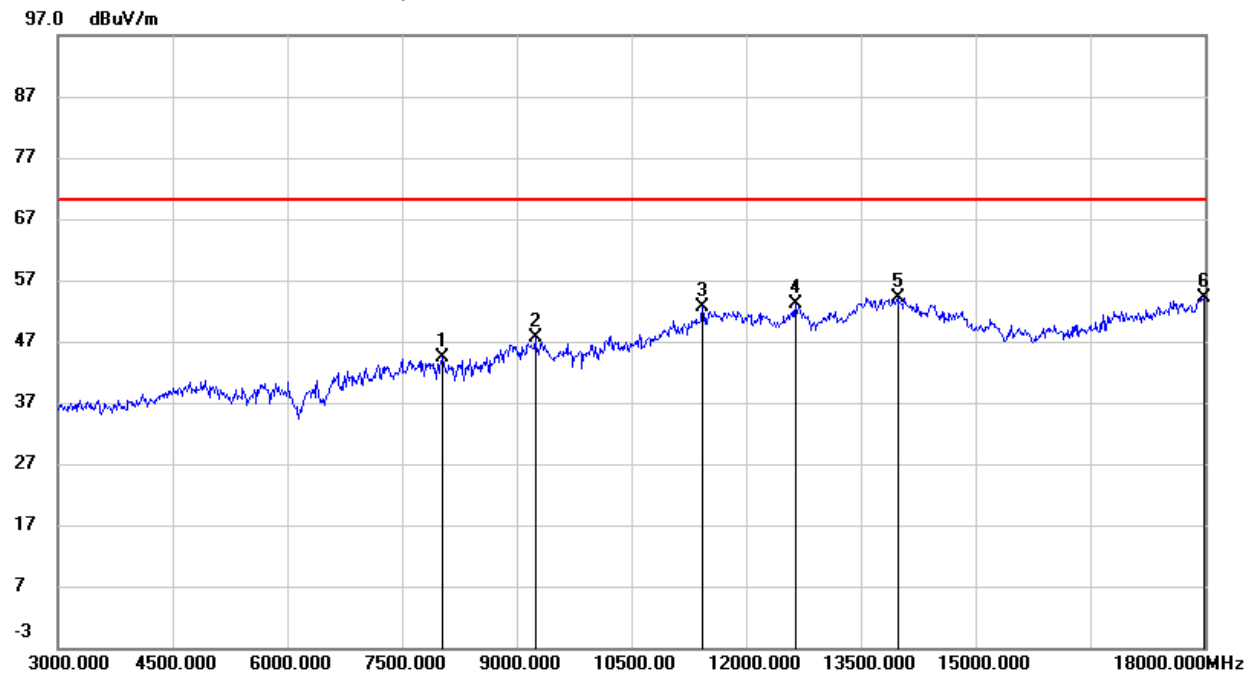
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1639.000	62.18	-12.25	49.93	82.25	-32.32	peak
2	2467.000	50.24	-8.66	41.58	82.25	-40.67	peak
3	3295.000	49.42	-6.32	43.10	82.25	-39.15	peak
4	4996.000	40.10	-0.17	39.93	82.25	-42.32	peak
5	7858.000	37.87	5.65	43.52	82.25	-38.73	peak
6	9253.000	36.45	9.83	46.28	82.25	-35.97	peak

QPSK-1.4 MHz-High Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1639.000	66.97	-12.25	54.72	82.25	-27.53	peak
2	2467.000	51.64	-8.66	42.98	82.25	-39.27	peak
3	3295.000	48.84	-6.32	42.52	82.25	-39.73	peak
4	5896.000	38.39	1.56	39.95	82.25	-42.30	peak
5	7633.000	38.89	5.68	44.57	82.25	-37.68	peak
6	9001.000	36.51	9.74	46.25	82.25	-36.00	peak

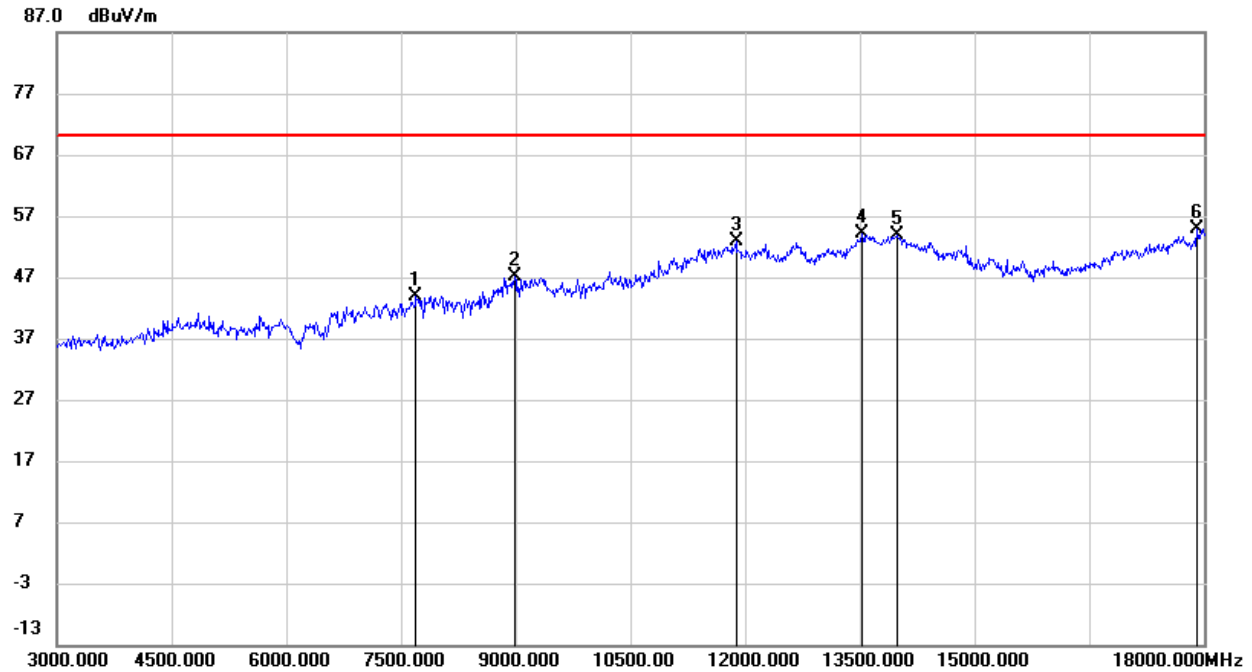
LTE Band 41

QPSK-5 MHz-Low Channel- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8025.000	38.00	6.34	44.34	70.25	-25.91	peak
2	9240.000	37.08	10.58	47.66	70.25	-22.59	peak
3	11430.000	36.23	16.34	52.57	70.25	-17.68	peak
4	12645.000	35.18	17.92	53.10	70.25	-17.15	peak
5	13980.000	32.25	21.92	54.17	70.25	-16.08	peak
6	17985.000	28.51	25.60	54.11	70.25	-16.14	peak

QPSK-5 MHz-Low Channel- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7695.000	37.64	6.32	43.96	70.25	-26.29	peak
2	8985.000	36.68	10.37	47.05	70.25	-23.20	peak
3	11880.000	35.18	17.63	52.81	70.25	-17.44	peak
4	13530.000	33.07	20.96	54.03	70.25	-16.22	peak
5	13980.000	31.86	21.92	53.78	70.25	-16.47	peak
6	17910.000	29.83	25.16	54.99	70.25	-15.26	peak

QPSK-5 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7275.000	37.46	6.49	43.95	70.25	-26.30	peak
2	9195.000	37.38	10.56	47.94	70.25	-22.31	peak
3	11790.000	34.69	17.38	52.07	70.25	-18.18	peak
4	13545.000	33.39	20.99	54.38	70.25	-15.87	peak
5	14010.000	32.81	21.93	54.74	70.25	-15.51	peak
6	17970.000	28.65	25.51	54.16	70.25	-16.09	peak

QPSK-5 MHz-Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7980.000	37.99	6.31	44.30	70.25	-25.95	peak
2	9225.000	36.70	10.58	47.28	70.25	-22.97	peak
3	11520.000	35.70	16.65	52.35	70.25	-17.90	peak
4	11715.000	35.92	17.19	53.11	70.25	-17.14	peak
5	13935.000	32.05	21.82	53.87	70.25	-16.38	peak
6	17985.000	28.45	25.60	54.05	70.25	-16.20	peak

QPSK-5 MHz-High Channel- Horizontal

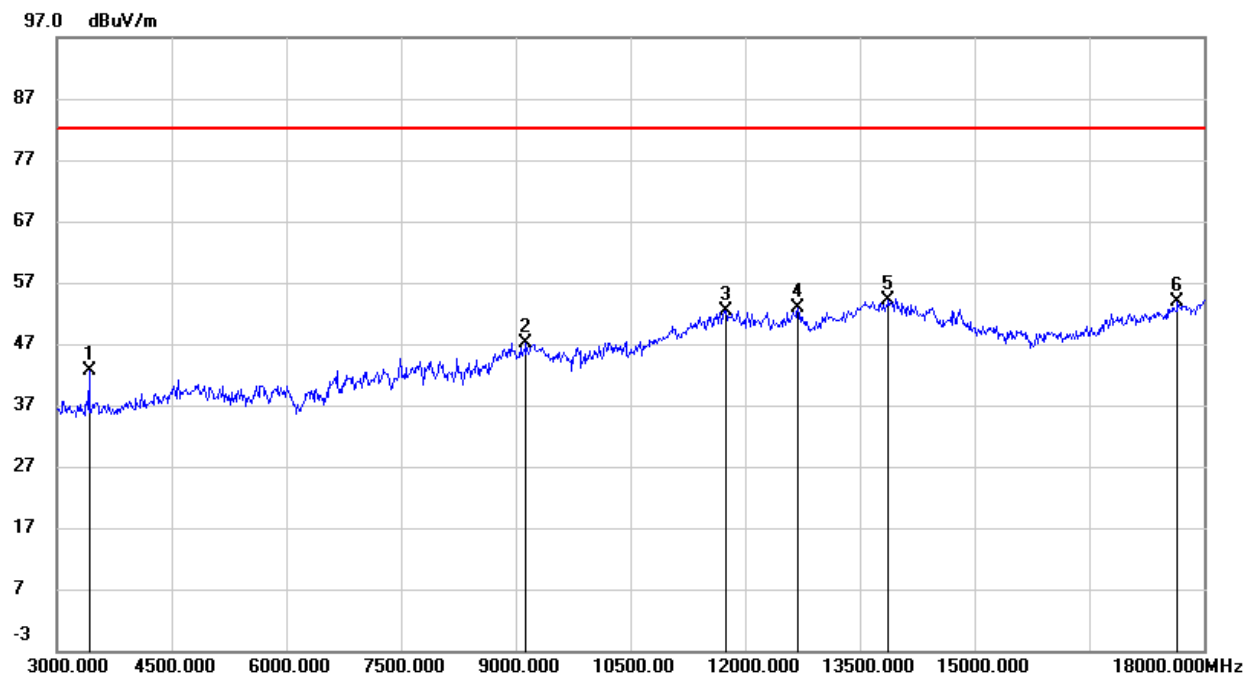
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6585.000	38.51	4.64	43.15	70.25	-27.10	peak
2	9240.000	37.45	10.58	48.03	70.25	-22.22	peak
3	11745.000	35.77	17.27	53.04	70.25	-17.21	peak
4	13590.000	33.03	21.09	54.12	70.25	-16.13	peak
5	14025.000	32.31	21.86	54.17	70.25	-16.08	peak
6	17970.000	28.77	25.51	54.28	70.25	-15.97	peak

QPSK-5 MHz-High Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7890.000	38.01	6.31	44.32	70.25	-25.93	peak
2	9195.000	35.77	10.56	46.33	70.25	-23.92	peak
3	11790.000	34.52	17.38	51.90	70.25	-18.35	peak
4	13590.000	32.34	21.09	53.43	70.25	-16.82	peak
5	14430.000	33.44	20.20	53.64	70.25	-16.61	peak
6	17985.000	28.11	25.60	53.71	70.25	-16.54	peak

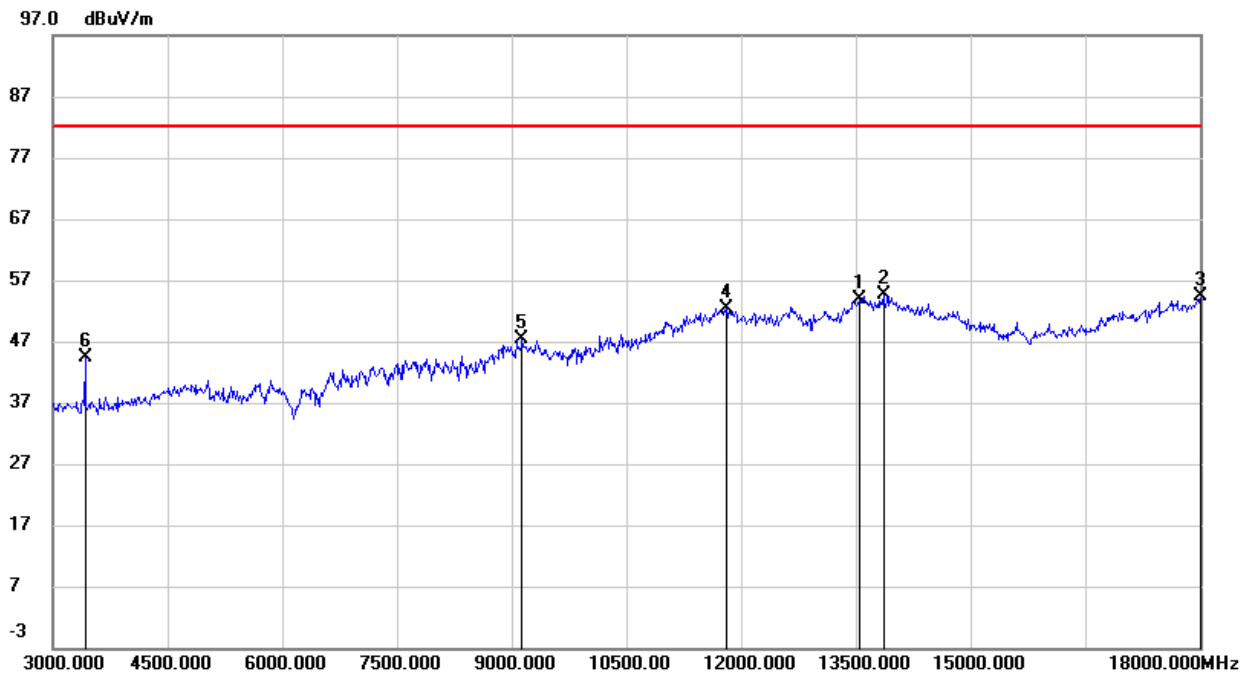
LTE Band 66

QPSK-1.4 MHz-Low Channel- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3420.000	47.62	-5.01	42.61	82.25	-39.64	peak
2	9135.000	36.70	10.55	47.25	82.25	-35.00	peak
3	11745.000	35.14	17.27	52.41	82.25	-29.84	peak
4	12690.000	34.83	18.02	52.85	82.25	-29.40	peak
5	13875.000	32.54	21.70	54.24	82.25	-28.01	peak
6	17655.000	30.24	23.64	53.88	82.25	-28.37	peak

QPSK-1.4 MHz-Low Channel- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	13545.000	32.89	20.99	53.88	82.25	-28.37	peak
2	13860.000	32.98	21.67	54.65	82.25	-27.60	peak
3	18000.000	28.69	25.69	54.38	82.25	-27.87	peak
4	11805.000	34.97	17.43	52.40	82.25	-29.85	peak
5	9135.000	36.78	10.55	47.33	82.25	-34.92	peak
6	3420.000	49.44	-5.01	44.43	82.25	-37.82	peak

QPSK-1.4 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3480.000	48.90	-4.97	43.93	82.25	-38.32	peak
2	9300.000	36.71	10.61	47.32	82.25	-34.93	peak
3	11910.000	34.83	17.72	52.55	82.25	-29.70	peak
4	13560.000	33.33	21.04	54.37	82.25	-27.88	peak
5	13875.000	32.40	21.70	54.10	82.25	-28.15	peak
6	17985.000	29.29	25.60	54.89	82.25	-27.36	peak

QPSK-1.4 MHz-Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3480.000	46.66	-4.97	41.69	82.25	-40.56	peak
2	7710.000	38.29	6.33	44.62	82.25	-37.63	peak
3	9060.000	36.38	10.51	46.89	82.25	-35.36	peak
4	11865.000	35.18	17.59	52.77	82.25	-29.48	peak
5	13605.000	33.43	21.12	54.55	82.25	-27.70	peak
6	17715.000	30.15	24.00	54.15	82.25	-28.10	peak

QPSK-1.4 MHz-High Channel- Horizontal

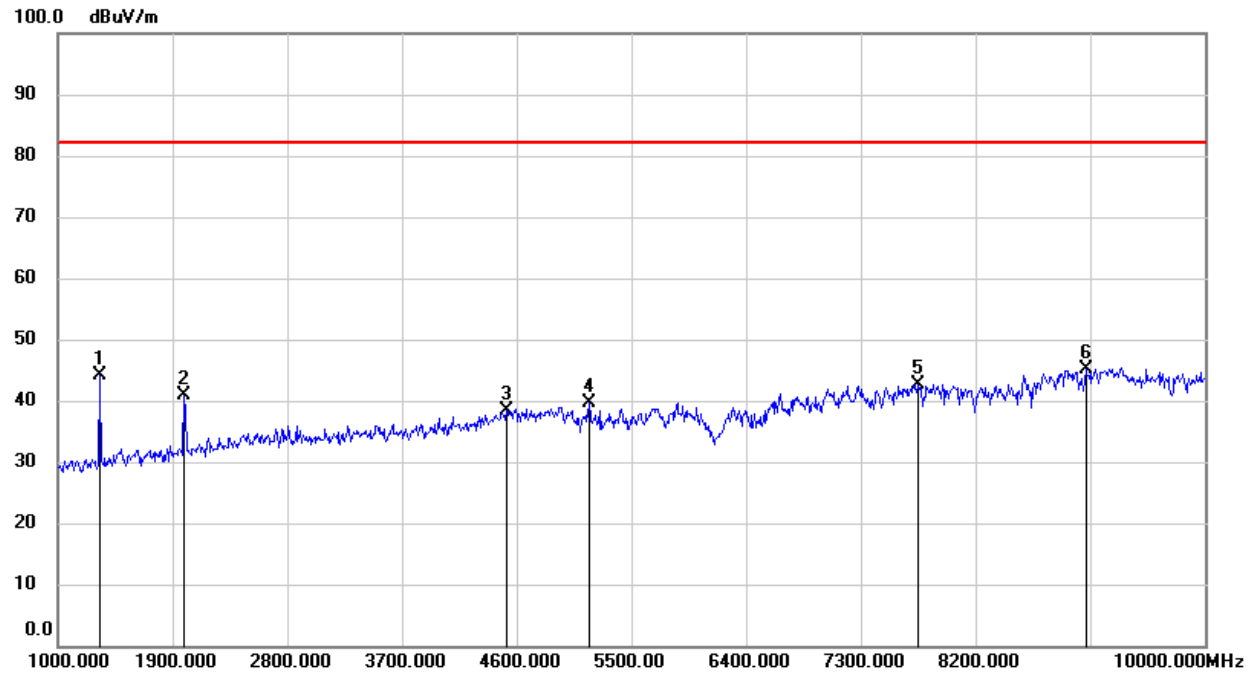
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7890.000	37.48	6.31	43.79	82.25	-38.46	peak
2	8925.000	37.41	9.94	47.35	82.25	-34.90	peak
3	11520.000	35.17	16.65	51.82	82.25	-30.43	peak
4	12270.000	34.84	17.77	52.61	82.25	-29.64	peak
5	13680.000	33.35	21.29	54.64	82.25	-27.61	peak
6	18000.000	28.39	25.69	54.08	82.25	-28.17	peak

QPSK-1.4 MHz-High Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3555.000	47.18	-4.83	42.35	82.25	-39.90	peak
2	9135.000	36.37	10.55	46.92	82.25	-35.33	peak
3	11880.000	34.49	17.63	52.12	82.25	-30.13	peak
4	13500.000	33.48	20.90	54.38	82.25	-27.87	peak
5	13920.000	32.77	21.79	54.56	82.25	-27.69	peak
6	17985.000	28.65	25.60	54.25	82.25	-28.00	peak

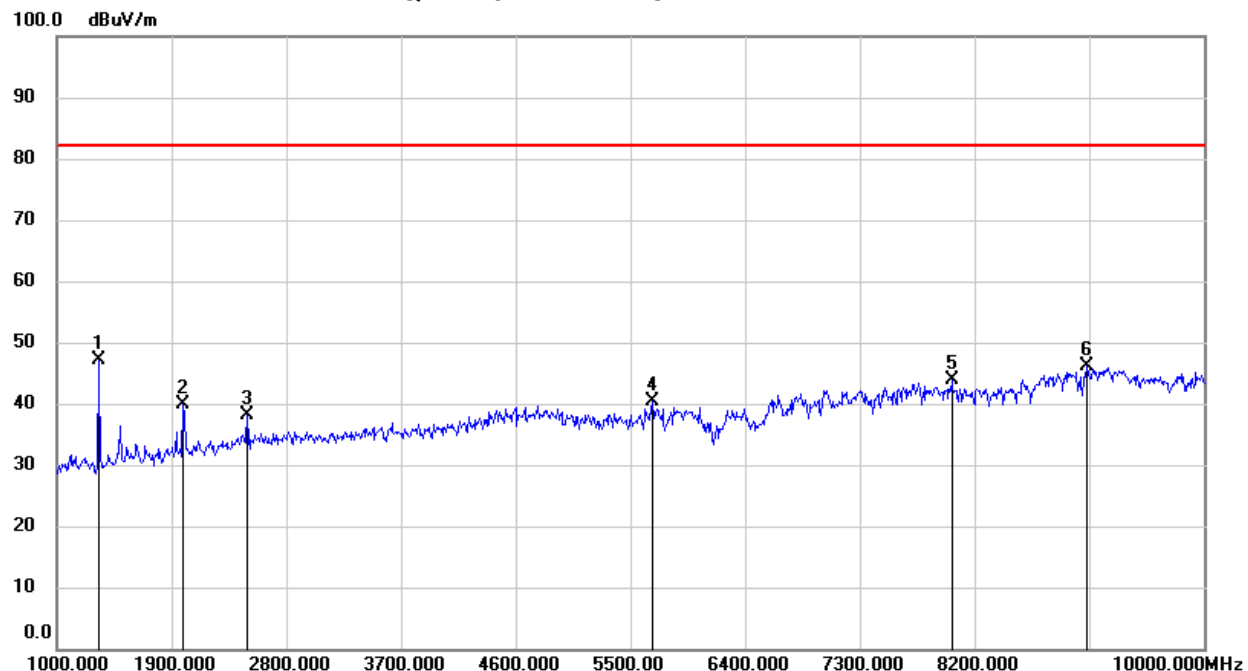
LTE Band 71

QPSK-5 MHz-Low Channel- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1324.000	57.70	-13.53	44.17	82.25	-38.08	peak
2	1990.000	52.02	-11.09	40.93	82.25	-41.32	peak
3	4519.000	40.43	-2.06	38.37	82.25	-43.88	peak
4	5167.000	39.69	0.04	39.73	82.25	-42.52	peak
5	7750.000	36.99	5.67	42.66	82.25	-39.59	peak
6	9064.000	35.43	9.76	45.19	82.25	-37.06	peak

QPSK-5 MHz-Low Channel- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1324.000	60.73	-13.53	47.20	82.25	-35.05	peak
2	1990.000	51.05	-11.09	39.96	82.25	-42.29	peak
3	2494.000	46.60	-8.52	38.08	82.25	-44.17	peak
4	5671.000	39.36	0.91	40.27	82.25	-41.98	peak
5	8020.000	38.23	5.67	43.90	82.25	-38.35	peak
6	9082.000	36.24	9.77	46.01	82.25	-36.24	peak

QPSK-5 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1351.000	59.06	-13.40	45.66	82.25	-36.59	peak
2	2035.000	51.95	-10.89	41.06	82.25	-41.19	peak
3	4924.000	40.10	-0.45	39.65	82.25	-42.60	peak
4	5671.000	38.96	0.91	39.87	82.25	-42.38	peak
5	7039.000	36.04	6.17	42.21	82.25	-40.04	peak
6	8965.000	36.72	9.49	46.21	82.25	-36.04	peak

QPSK-5 MHz-Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1351.000	56.50	-13.40	43.10	82.25	-39.15	peak
2	2035.000	48.96	-10.89	38.07	82.25	-44.18	peak
3	2494.000	46.56	-8.52	38.04	82.25	-44.21	peak
4	4879.000	40.60	-0.63	39.97	82.25	-42.28	peak
5	7309.000	37.11	5.88	42.99	82.25	-39.26	peak
6	8992.000	36.00	9.68	45.68	82.25	-36.57	peak

QPSK-5 MHz-High Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1387.000	58.37	-13.23	45.14	82.25	-37.11	peak
2	2080.000	51.91	-10.64	41.27	82.25	-40.98	peak
3	5014.000	39.30	-0.13	39.17	82.25	-43.08	peak
4	7282.000	36.60	5.91	42.51	82.25	-39.74	peak
5	7642.000	36.85	5.69	42.54	82.25	-39.71	peak
6	8965.000	36.76	9.49	46.25	82.25	-36.00	peak

QPSK-5 MHz-High Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1387.000	55.61	-13.23	42.38	82.25	-39.87	peak
2	2494.000	46.90	-8.52	38.38	82.25	-43.87	peak
3	5032.000	39.79	-0.12	39.67	82.25	-42.58	peak
4	7021.000	36.56	6.19	42.75	82.25	-39.50	peak
5	7723.000	37.72	5.67	43.39	82.25	-38.86	peak
6	9352.000	36.62	9.88	46.50	82.25	-35.75	peak

9. TEST DATA

9.1. Appendix A: Effective (Isotropic) Radiated Power Output Data

LTE FDD B2				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0	21.21	21.44	21.26
		1	2	21.13	21.4	21.26
		1	5	21.13	21.33	21.26
		3	0	21.17	21.38	21.22
		3	1	21.17	21.33	21.18
		3	3	21.11	21.29	21.23
		6	0	20.19	20.29	20.26
	16QAM	1	0	20.43	20.55	20.37
		1	2	20.47	20.48	20.49
		1	5	20.3	20.48	20.37
		3	0	20.04	20.2	20.15
		3	1	19.99	20.19	20.11
		3	3	19.96	20.18	20.14
		6	0	19.18	19.39	19.16
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18615	18900	19185
3MHz	QPSK	1	0	21.21	21.39	21.47
		1	8	21.15	21.43	21.3
		1	14	21.1	21.38	21.26
		8	0	20.16	20.35	20.31
		8	4	20.13	20.35	20.32
		8	7	20.11	20.33	20.26
		15	0	20.15	20.34	20.27
	16QAM	1	0	20.36	20.62	20.25
		1	8	20.27	20.46	20.18
		1	14	20.25	20.35	20.17
		8	0	19.28	19.41	19.34
		8	4	19.25	19.36	19.34
		8	7	19.21	19.34	19.27
		15	0	19.23	19.26	19.21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0	21.29	21.73	21.51
		1	12	21.22	21.42	21.39
		1	24	21.19	21.36	21.3
		12	0	20.25	20.4	20.37
		12	6	20.25	20.37	20.37
		12	13	20.19	20.31	20.27

	16QAM	25	0	20.2	20.36	20.27
		1	0	20.28	20.55	20.9
		1	12	20.24	20.49	20.58
		1	24	20.18	20.44	20.6
		12	0	19.23	19.42	19.43
		12	6	19.3	19.41	19.45
		12	13	19.18	19.31	19.28
		25	0	19.09	19.38	19.27
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0	21.27	21.42	21.45
		1	24	21.19	21.34	21.31
		1	49	21.16	21.47	21.37
		25	0	20.19	20.37	20.34
		25	12	20.2	20.38	20.34
		25	25	20.19	20.3	20.28
		50	0	20.22	20.33	20.28
	16QAM	1	0	20.49	20.52	20.62
		1	24	20.36	20.6	20.4
		1	49	20.42	20.6	20.5
		25	0	19.15	19.33	19.35
		25	12	19.16	19.38	19.34
		25	25	19.14	19.27	19.32
		50	0	19.16	19.33	19.3
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0	21.29	21.48	21.51
		1	38	21	21.42	21.26
		1	74	21.23	21.52	21.43
		36	0	20.15	20.35	20.27
		36	18	20.12	20.35	20.27
		36	37	20.12	20.41	20.33
		75	0	20.11	20.46	20.34
	16QAM	1	0	20.55	20.77	20.88
		1	38	20.2	20.57	20.69
		1	74	20.47	20.68	20.59
		36	0	19.16	19.35	19.36
		36	18	19.18	19.3	19.37
		36	37	19.15	19.3	19.36
		75	0	19.13	19.35	19.3
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0	21.31	21.37	21.38
		1	49	21.26	21.39	21.32

		1	99	21.03	21.22	20.93
		50	0	20.25	20.41	20.45
		50	25	20.26	20.36	20.45
		50	50	20.15	20.32	20.18
		100	0	20.36	20.37	20.28
	16QAM	1	0	20.3	20.7	20.43
		1	49	20.31	20.67	20.49
		1	99	20.04	20.34	19.9
		50	0	19.27	19.39	19.55
		50	25	19.25	19.32	19.53
		50	50	19.25	19.34	19.17
		100	0	19.29	19.46	19.29

LTE FDD B4				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19957	20175	20393
1.4MHz	QPSK	1	0	19.91	20.94	20.91
		1	2	20.99	20.95	20.89
		1	5	20.94	20.97	20.92
		3	0	20.92	20.98	20.89
		3	1	20.9	20.98	20.88
		3	3	20.94	20.98	20.87
		6	0	19.94	19.95	19.88
	16QAM	1	0	20.04	20.17	20.01
		1	2	20.14	20.21	20.06
		1	5	20.01	20.09	20.01
		3	0	19.84	19.87	19.76
		3	1	19.84	19.82	19.77
		3	3	19.88	19.8	19.75
		6	0	18.73	18.92	18.9
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19965	20175	20385
3MHz	QPSK	1	0	20.85	20.94	20.98
		1	8	20.87	21.03	20.91
		1	14	20.9	20.89	20.94
		8	0	19.85	20.01	19.92
		8	4	19.85	19.97	19.93
		8	7	19.88	19.99	19.9
		15	0	19.89	20	19.89
	16QAM	1	0	20.02	20.07	20.17
		1	8	20.03	20.22	20.02
		1	14	20	20.05	19.98
		8	0	18.95	19.02	18.94
		8	4	18.95	19.02	18.94

		8	7	18.93	18.99	18.9
		15	0	18.86	18.91	18.88
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19975	20175	20375
5MHz	QPSK	1	0	21.04	21.09	21.2
		1	12	21	21.17	21.01
		1	24	20.99	21.01	21.01
		12	0	19.96	20.06	19.98
		12	6	19.96	20.02	19.95
		12	13	19.93	19.92	19.92
		25	0	19.98	20.03	20
	16QAM	1	0	20.04	20.31	20.11
		1	12	20.03	20.38	20.01
		1	24	20.08	20.2	20.06
		12	0	18.94	19.05	19.04
		12	6	18.98	19.07	18.99
		12	13	18.92	18.95	18.93
		25	0	18.96	19.02	19.06
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350
10MHz	QPSK	1	0	21.15	21.25	21.23
		1	24	20.92	20.92	20.91
		1	49	21.51	21.39	21.48
		25	0	19.96	19.98	19.82
		25	12	19.99	20.03	19.81
		25	25	20.14	20.05	20.1
		50	0	20.07	20.07	20
	16QAM	1	0	20.32	20.37	20.07
		1	24	20.09	20.15	19.76
		1	49	20.67	20.54	20.21
		25	0	18.94	19.05	18.91
		25	12	18.94	19.01	18.86
		25	25	19.14	19.08	19.11
		50	0	19.03	19.04	18.96
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0	20.87	20.86	20.91
		1	38	20.9	20.79	20.83
		1	74	20.96	20.71	20.79
		36	0	19.86	19.83	19.8
		36	18	19.91	19.85	19.79
		36	37	19.9	19.84	19.73
		75	0	19.93	19.86	19.77
	16QAM	1	0	19.87	20.18	20
		1	38	19.95	20.14	19.87

		1	74	20.12	19.99	19.83
		36	0	18.85	18.86	18.74
		36	18	18.87	18.93	18.74
		36	37	18.87	18.9	18.75
		75	0	18.88	18.81	18.7
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0	20.66	20.73	20.75
		1	49	21	20.88	20.91
		1	99	21	20.8	20.86
		50	0	19.73	19.77	19.77
		50	25	19.77	19.8	19.76
		50	50	19.86	19.79	19.75
		100	0	19.8	19.78	19.71
	16QAM	1	0	19.66	19.9	19.75
		1	49	19.94	20.07	19.9
		1	99	19.92	19.89	19.86
		50	0	18.78	18.83	18.71
		50	25	18.79	18.81	18.71
		50	50	18.81	18.79	18.7
		100	0	18.78	18.74	18.73

LTE FDD B5				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20407	20525	20643
1.4MHz	QPSK	1	0	22.11	21.88	21.97
		1	2	22.12	21.96	21.83
		1	5	22.16	22.05	21.91
		3	0	22.11	21.93	21.99
		3	1	22.11	21.95	21.98
		3	3	22.18	22.02	21.96
		6	0	21.14	20.91	20.97
	16QAM	1	0	21.14	20.8	21.05
		1	2	21.23	20.87	21.13
		1	5	21.27	20.84	21.04
		3	0	21.03	20.76	20.87
		3	1	20.99	20.76	20.86
		3	3	20.97	20.8	20.76
		6	0	20.02	19.91	19.99
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20415	20525	20635
3MHz	QPSK	1	0	22.08	21.89	21.97
		1	8	22.22	21.99	22.03
		1	14	22.14	22.06	21.95

		8	0	21.17	20.96	21.01
		8	4	21.12	20.98	20.96
		8	7	21.11	20.95	21.03
		15	0	21.1	20.95	20.99
	16QAM	1	0	21.23	21.02	21.08
		1	8	21.32	21.18	21.14
		1	14	21.22	21.04	21.08
		8	0	20.23	19.96	20
		8	4	20.23	19.96	20.01
		8	7	20.15	19.95	20.07
		15	0	20.11	19.82	20.03
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20425	20525	20625
5MHz	QPSK	1	0	22.21	22	22.15
		1	12	22.14	22.13	22.01
		1	24	22.24	22.14	22.03
		12	0	21.18	20.96	21.08
		12	6	21.2	20.99	21.09
		12	13	21.18	21.06	20.96
		25	0	21.15	20.95	21.01
	16QAM	1	0	21.21	21.25	21.16
		1	12	21.16	21.3	21.11
		1	24	21.27	21.28	21.1
		12	0	20.15	19.98	20.05
		12	6	20.18	20	20.05
		12	13	20.16	20.07	19.94
		25	0	20.15	19.92	20.03
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20450	20525	20600
10MHz	QPSK	1	0	22.3	22.02	22.21
		1	24	22.15	21.99	22.02
		1	49	22.44	22.37	22.3
		25	0	21.14	21	21.11
		25	12	21.13	21.02	21.12
		25	25	21.15	21.11	21.12
		50	0	21.12	21	21.22
	16QAM	1	0	21.46	21.21	21.35
		1	24	21.32	21.07	21.29
		1	49	21.56	21.44	21.44
		25	0	20.15	20.05	20.1
		25	12	20.16	20.03	20.09
		25	25	20.1	20.15	20.14
		50	0	20.08	20.03	20.15

LTE FDD B7				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	19.02	18.79	18.39
		1	12	18.98	18.78	18.36
		1	24	18.87	18.64	18.38
		12	0	18.91	18.66	18.29
		12	6	18.88	18.65	18.31
		12	13	18.77	18.6	18.26
		25	0	18.86	18.69	18.33
	16QAM	1	0	19.29	18.77	18.41
		1	12	19.22	18.75	18.43
		1	24	19.05	18.66	18.35
		12	0	18.93	18.69	18.3
		12	6	18.95	18.7	18.33
		12	13	18.87	18.6	18.29
		25	0	18.84	18.72	18.26
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20800	21100	21400
10MHz	QPSK	1	0	19.07	18.94	18.54
		1	24	18.79	18.61	18.24
		1	49	19	18.68	18.41
		25	0	18.95	18.65	18.37
		25	12	18.94	18.67	18.34
		25	25	18.83	18.59	18.26
		50	0	18.82	18.65	18.3
	16QAM	1	0	19.27	19.11	18.76
		1	24	18.99	18.81	18.41
		1	49	19.18	18.83	18.54
		25	0	18.9	18.67	18.34
		25	12	18.91	18.66	18.34
		25	25	18.83	18.58	18.29
		50	0	18.83	18.65	18.29
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20825	21100	21375
15MHz	QPSK	1	0	19	18.89	18.42
		1	38	19.01	18.71	18.39
		1	74	18.92	18.62	18.32
		36	0	18.95	18.9	18.49
		36	18	19.02	18.92	18.51
		36	37	19	18.92	18.49
		75	0	18.99	18.82	18.39
	16QAM	1	0	19.19	19.01	18.53

		1	38	19.18	18.97	18.54
		1	74	19.11	18.8	18.48
		36	0	18.93	18.91	18.5
		36	18	18.95	18.92	18.56
		36	37	18.99	18.92	18.46
		75	0	18.97	18.79	18.39
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20850	21100	21350
20MHz	QPSK	1	0	19.13	18.96	18.66
		1	49	19.22	19.42	18.69
		1	99	18.97	18.84	18.45
		50	0	19.01	18.96	18.49
		50	25	19.49	18.87	18.47
		50	50	18.95	18.7	18.35
		100	0	19	18.83	18.45
	16QAM	1	0	19.13	18.92	18.7
		1	49	19.14	18.93	18.55
		1	99	19.02	18.77	18.36
		50	0	18.92	18.88	18.47
		50	25	18.98	18.89	18.47
		50	50	18.98	18.67	18.33
		100	0	19	18.81	18.45

LTE FDD B12				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23017	23095	23173
1.4MHz	QPSK	1	0	21.98	22.09	21.89
		1	2	21.92	22.08	21.97
		1	5	21.94	22.09	21.93
		3	0	21.97	22.13	21.83
		3	1	21.97	22.13	21.83
		3	3	21.94	22.02	21.9
		6	0	20.87	21.05	20.92
	16QAM	1	0	21.98	22.09	21.89
		1	2	21.92	22.08	21.97
		1	5	21.94	22.09	21.93
		3	0	21.97	22.13	21.83
		3	1	21.97	22.13	21.83
		3	3	21.94	22.02	21.9
		6	0	20.87	21.05	20.92
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23025	23095	23165
3MHz	QPSK	1	0	21.95	22.07	22.02

		1	8	22.02	22.13	22.03
		1	14	22.05	22.12	21.95
		8	0	20.92	21.12	20.91
		8	4	20.96	21.13	20.93
		8	7	20.97	21.05	20.89
		15	0	21.03	21.06	20.91
	16QAM	1	0	21.95	22.07	22.02
		1	8	22.02	22.13	22.03
		1	14	22.05	22.12	21.95
		8	0	20.92	21.12	20.91
		8	4	20.96	21.13	20.93
		8	7	20.97	21.05	20.89
		15	0	21.03	21.06	20.91
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23035	23095	23155
5MHz	QPSK	1	0	22.09	22.17	22.23
		1	12	22.11	22.2	22.16
		1	24	22.15	22.2	22.04
		12	0	21.01	21.08	21.14
		12	6	21.04	21.09	21.13
		12	13	21.06	21.17	20.93
		25	0	21.03	21.06	20.99
	16QAM	1	0	22.09	22.17	22.23
		1	12	22.11	22.2	22.16
		1	24	22.15	22.2	22.04
		12	0	21.01	21.08	21.14
		12	6	21.04	21.09	21.13
		12	13	21.06	21.17	20.93
		25	0	21.03	21.06	20.99
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23060	23095	23130
10MHz	QPSK	1	0	22.29	22.47	22.5
		1	24	22.06	22.11	22.03
		1	49	22.26	22.23	22.15
		25	0	21.13	21.18	21.27
		25	12	21.13	21.18	21.21
		25	25	21.09	21.11	21.04
		50	0	21.06	21.11	21.12
	16QAM	1	0	22.29	22.47	22.5
		1	24	22.06	22.11	22.03
		1	49	22.26	22.23	22.15
		25	0	21.13	21.18	21.27
		25	12	21.13	21.18	21.21
		25	25	21.09	21.11	21.04
		25	25	21.09	21.11	21.04

		50	0	21.06	21.11	21.12
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LTE FDD B13				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23205	23230	23255
5MHz	QPSK	1	0	21.21	22.25	21.99
		1	12	22.19	22.07	22.07
		1	24	21.96	22.07	22.03
		12	0	21.05	21.13	20.91
		12	6	20.95	21.14	20.93
		12	13	20.92	21.01	20.92
		25	0	21.21	21.02	20.96
	16QAM	1	0	21.21	22.25	21.99
		1	12	22.19	22.07	22.07
		1	24	21.96	22.07	22.03
		12	0	21.05	21.13	20.91
		12	6	20.95	21.14	20.93
		12	13	20.92	21.01	20.92
		25	0	21.21	21.02	20.96
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
10MHz	QPSK			23230		
		1	0	22.33		
		1	24	21.99		
		1	49	22.28		
		25	0	21.25		
		25	12	21.24		
		25	25	21.15		
		50	0	21.18		
	16QAM	1	0	21.99		
		1	24	22.28		
		1	49	21.25		
		25	0	21.24		
		25	12	21.15		
		25	25	21.18		
		50	0	20.65		

LTE FDD B14				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23305	23330	23355
5MHz	QPSK	1	0	22.04	21.9	21.95
		1	12	21.93	21.89	22.04
		1	24	21.84	21.87	22.01
		12	0	20.86	20.72	20.83
		12	6	20.86	20.73	20.8
		12	13	20.72	20.71	20.85
		25	0	20.84	20.72	20.85
	16QAM	1	0	20.94	21.16	20.94
		1	12	20.99	20.93	21.03
		1	24	20.8	21.04	20.88
		12	0	19.91	19.81	19.86
		12	6	19.86	19.77	19.89
		12	13	19.74	19.76	19.89
		25	0	19.84	19.69	19.86
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
10MHz	QPSK			23330		
		1	0	22.12		
		1	24	21.72		
		1	49	21.85		
		25	0	20.88		
		25	12	20.89		
		25	25	20.75		
		50	0	20.81		
	16QAM	1	0	21.3		
		1	24	20.88		
		1	49	21.06		
		25	0	19.85		
		25	12	19.87		
		25	25	19.78		
		50	0	19.78		

LTE FDD B17				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23755	23790	23825
5MHz	QPSK	1	0	22.54	22.32	22.31
		1	12	22.55	22.3	22.25
		1	24	22.29	22.21	22.2
		12	0	21.38	21.17	21.33
		12	6	21.37	21.19	21.26
		12	13	21.37	21.01	21.14
		25	0	21.33	21.1	21.19
	16QAM	1	0	21.8	21.27	21.24
		1	12	21.73	21.3	21.2
		1	24	21.52	21.17	21.17
		12	0	20.42	20.16	20.25
		12	6	20.4	20.15	20.26
		12	13	20.38	20.02	20.14
		25	0	20.38	20.12	20.23
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23780	23790	23800
10MHz	QPSK	1	0	22.6	22.61	22.61
		1	24	22.16	22.11	22.21
		1	49	22.24	22.22	22.22
		25	0	21.26	21.26	21.23
		25	12	21.3	21.24	21.26
		25	25	21.16	21.07	21.15
		50	0	21.27	21.18	21.23
	16QAM	1	0	21.79	21.73	21.46
		1	24	21.29	21.25	21.06
		1	49	21.43	21.34	21.08
		25	0	20.27	20.29	20.29
		25	12	20.25	20.31	20.26
		25	25	20.1	20.11	20.19
		50	0	20.24	20.13	20.24

LTE FDD B25				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26047	26365	26683
1.4MHz	QPSK	1	0	21.3	21.26	21.03
		1	2	21.32	21.22	20.37
		1	5	21.27	21.15	20.04
		3	0	21.3	21.25	20.46
		3	1	21.32	21.25	20.45
		3	3	21.27	21.15	20.04
		6	0	20.26	20.27	20.24

	16QAM	1	0	20.48	20.42	20.05
		1	2	20.57	20.49	19.66
		1	5	20.49	20.29	19.26
		3	0	20.24	20.14	19.56
		3	1	20.15	20.16	19.53
		3	3	20.17	20.1	19.1
		6	0	19.38	19.26	19
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26055	26365	26675
3MHz	QPSK	1	0	21.46	21.26	21.25
		1	8	21.27	21.28	21.12
		1	14	21.2	21.28	19.93
		8	0	20.32	20.23	20.14
		8	4	20.21	20.22	20
		8	7	20.31	20.13	20.1
		15	0	20.29	20.21	20.04
	16QAM	1	0	20.39	20.33	20.41
		1	8	20.26	20.29	20.42
		1	14	20.22	20.35	19.27
		8	0	19.35	19.17	19.17
		8	4	19.48	19.2	19.14
		8	7	19.28	19.13	19.07
		15	0	19.18	19.15	19.07
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26065	26365	26665
5MHz	QPSK	1	0	21.53	21.4	21.31
		1	12	21.39	21.37	21.17
		1	24	21.39	21.36	20.1
		12	0	20.41	20.31	20.2
		12	6	20.39	20.31	20.19
		12	13	20.38	20.29	20.18
		25	0	20.35	20.29	20.19
	16QAM	1	0	20.51	20.41	20.52
		1	12	20.44	20.34	20.49
		1	24	20.42	20.4	19.32
		12	0	19.52	19.36	19.24
		12	6	19.55	19.37	19.22
		12	13	19.37	19.28	19.19
		25	0	19.29	19.34	19.25
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26090	26365	26640
10MHz	QPSK	1	0	21.55	21.41	21.44
		1	24	21.31	21.26	21.21
		1	49	21.45	21.44	20.06

		25	0	20.38	20.26	20.2
		25	12	20.37	20.26	20.19
		25	25	20.41	20.39	20.27
		50	0	20.45	20.33	20.27
	16QAM	1	0	20.68	20.71	20.56
		1	24	20.47	20.44	20.32
		1	49	20.59	20.66	19.26
		25	0	19.37	19.26	19.19
		25	12	19.41	19.29	19.23
		25	25	19.42	19.41	19.2
		50	0	19.43	19.3	19.18
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26115	26365	26615
15MHz	QPSK	1	0	21.35	21.38	21.38
		1	38	21.16	21.31	21.27
		1	74	21.33	21.45	20.32
		36	0	20.36	20.39	20.25
		36	18	20.35	20.44	20.28
		36	37	20.38	20.4	20.28
		75	0	20.33	20.52	20.39
	16QAM	1	0	20.52	20.66	20.85
		1	38	20.28	20.55	20.76
		1	74	20.51	20.65	19.68
		36	0	19.35	19.33	19.41
		36	18	19.33	19.31	19.39
		36	37	19.33	19.37	19.4
		75	0	19.32	19.4	19.42
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26140	26365	26590
20MHz	QPSK	1	0	21.54	21.36	21.4
		1	49	21.4	21.37	21.24
		1	99	21.19	21.28	20.46
		50	0	20.38	20.27	20.41
		50	25	20.36	20.32	20.41
		50	50	20.33	20.36	20.23
		100	0	20.44	20.37	20.41
	16QAM	1	0	20.5	20.68	20.41
		1	49	20.53	20.65	20.44
		1	99	20.21	20.39	19.63
		50	0	19.36	19.39	19.46
		50	25	19.34	19.3	19.44
		50	50	19.37	19.37	19.33
		100	0	19.43	19.43	19.57

LTE FDD B26(814-824)				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26697	26740	26783
1.4MHz	QPSK	1	0	22.29	22.11	22.03
		1	2	22.28	22.14	22.1
		1	5	22.22	22.1	22.01
		3	0	22.27	22.12	21.99
		3	1	22.28	22.11	22.05
		3	3	22.23	22.09	22.04
		6	0	21.27	21.08	20.97
	16QAM	1	0	21.42	21.22	20.89
		1	2	21.5	21.33	20.9
		1	5	21.41	21.24	20.95
		3	0	21.16	21.01	20.81
		3	1	21.15	21.01	20.78
		3	3	21.08	20.98	20.75
		6	0	20.3	20	19.99
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26705	26740	26775
3MHz	QPSK	1	0	22.27	22.21	22.08
		1	8	22.33	22.18	22.03
		1	14	22.11	22.13	22.03
		8	0	21.29	21.12	21.03
		8	4	21.3	21.09	21.01
		8	7	21.22	21.1	21
		15	0	21.26	21.14	20.98
	16QAM	1	0	21.47	21.25	21.29
		1	8	21.43	21.3	21.18
		1	14	21.26	21.17	21.16
		8	0	20.36	20.17	20.07
		8	4	20.37	20.17	20.01
		8	7	20.33	20.12	20.07
		15	0	20.28	20.04	20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26715	26740	26765
5MHz	QPSK	1	0	22.4	22.26	22.29
		1	12	22.27	22.25	22.15
		1	24	22.23	22.2	22.09
		12	0	21.33	21.16	21.13
		12	6	21.32	21.18	21.14
		12	13	21.18	21.13	21.04
		25	0	21.16	21.18	21.04
	16QAM	1	0	21.38	21.49	21.25
		1	12	21.25	21.41	21.12

		1	24	21.23	21.4	21.14
		12	0	20.27	20.19	20.14
		12	6	20.31	20.2	20.1
		12	13	20.16	20.17	20.01
		25	0	20.13	20.13	20
Bandwidth	Modulation	RB size	RB offset	Channel		
				26740		
10MHz	QPSK	1	0	22.56		
		1	24	22.11		
		1	49	22.31		
		25	0	21.22		
		25	12	21.22		
		25	25	21.17		
		50	0	21.19		
	16QAM	1	0	21.74		
		1	24	21.35		
		1	49	21.5		
		25	0	20.24		
		25	12	20.21		
		25	25	20.21		
		50	0	20.17		

LTE FDD B26(824-849)				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26797	26915	27033
1.4MHz	QPSK	1	0	22.02	21.92	21.76
		1	2	21.99	21.97	21.76
		1	5	21.95	21.97	21.74
		3	0	21.99	21.89	21.78
		3	1	22.02	21.91	21.73
		3	3	21.96	21.99	21.71
		6	0	20.99	20.98	20.71
	16QAM	1	0	21.12	21.01	20.61
		1	2	21.25	21.2	20.71
		1	5	21.05	21.05	20.59
		3	0	20.82	20.8	20.57
		3	1	20.85	20.79	20.57
		3	3	20.83	20.88	20.48
		6	0	20.01	19.9	19.74
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26805	26915	27025
3MHz	QPSK	1	0	21.98	22	21.82
		1	8	22.01	22.04	21.79
		1	14	21.9	21.94	21.73

		8	0	21	20.96	20.78
		8	4	21.02	20.92	20.83
		8	7	20.96	20.96	20.81
		15	0	20.98	20.9	20.79
	16QAM	1	0	21.22	21.12	21.02
		1	8	21.2	21.16	20.93
		1	14	20.99	21	20.81
		8	0	20.02	19.95	19.87
		8	4	20.05	19.97	19.86
		8	7	20.01	19.96	19.82
		15	0	19.98	19.85	19.77
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26815	26915	27015
5MHz	QPSK	1	0	22.1	22.04	22.05
		1	12	22	22.12	21.97
		1	24	22.02	22.09	21.81
		12	0	21.01	21.03	20.92
		12	6	21.04	20.99	20.9
		12	13	20.89	20.93	20.82
		25	0	20.91	20.96	20.88
	16QAM	1	0	21.13	21.22	20.98
		1	12	21	21.25	20.92
		1	24	21.03	21.29	20.86
		12	0	20.01	20.06	19.95
		12	6	20.02	20.01	19.96
		12	13	19.94	19.97	19.84
		25	0	19.89	19.9	19.86
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26840	26915	26990
10MHz	QPSK	1	0	22.29	22.21	22.14
		1	24	21.92	22	21.81
		1	49	22.24	22.22	22.01
		25	0	20.98	21.01	21.01
		25	12	20.98	20.96	21
		25	25	21.1	21.07	20.89
		50	0	20.97	20.98	21
	16QAM	1	0	21.48	21.41	21.36
		1	24	21.07	21.17	21.03
		1	49	21.41	21.39	21.14
		25	0	20	20.04	19.99
		25	12	20.02	20.07	20
		25	25	20.05	20.07	19.92
		50	0	19.95	20.01	19.89
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel

				26865	26915	26965
15MHz	QPSK	1	0	22.35	22.25	22.36
		1	38	21.99	22.01	21.99
		1	74	22.48	22.35	22.26
		36	0	21.25	21.33	21.26
		36	18	21.25	21.32	21.25
		36	37	21.21	21.35	21.28
		75	0	21	21.15	21.09
	16QAM	1	0	21.53	21.6	21.52
		1	38	21.14	21.24	21.25
		1	74	21.62	21.76	21.48
		36	0	20.21	20.34	20.22
		36	18	20.21	20.35	20.26
		36	37	20.19	20.37	20.26
		75	0	19.97	20.16	20.05

LTE FDD B41				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39675	40620	41565
5MHz	QPSK	1	0	21.09	20.57	20.19
		1	12	20.99	20.5	20.29
		1	24	20.98	20.51	20.24
		12	0	20.02	19.57	19.19
		12	6	20.03	19.56	19.17
		12	13	19.98	19.53	19.26
		25	0	20.05	19.5	19.25
	16QAM	1	0	20.42	19.94	19.43
		1	12	20.39	19.86	19.44
		1	24	20.46	19.84	19.31
		12	0	19	18.61	18.22
		12	6	19	18.54	18.19
		12	13	18.95	18.57	18.24
		25	0	19.04	18.44	18.24
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39700	40620	41540
10MHz	QPSK	1	0	21.18	20.69	20.29
		1	24	21.01	20.48	20.12
		1	49	21.07	20.61	20.17
		25	0	20.1	19.58	19.21
		25	12	20.11	19.59	19.23
		25	25	20.01	19.52	19.25
		50	0	20.06	19.53	19.16
	16QAM	1	0	20.6	19.59	19.34
		1	24	20.55	19.41	19.27
		1	49	20.54	19.53	19.33

		25	0	19.16	18.56	18.28
		25	12	19.16	18.53	18.3
		25	25	19.08	18.49	18.25
		50	0	19.05	18.52	18.23
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39725	40620	41515
15MHz	QPSK	1	0	20.9	20.55	20.34
		1	38	20.93	20.45	20.35
		1	74	20.88	20.45	20.25
		36	0	20.02	19.48	19.25
		36	18	20.01	19.52	19.28
		36	37	20.03	19.48	19.25
		75	0	19.98	19.53	19.3
	16QAM	1	0	20.29	19.81	19.26
		1	38	20.29	19.72	19.34
		1	74	20.15	19.76	19.26
		36	0	19.02	18.49	18.3
		36	18	19.03	18.47	18.33
		36	37	19.03	18.51	18.31
		75	0	19.05	18.56	18.36
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39750	40620	41490
20MHz	QPSK	1	0	20.94	20.71	20.43
		1	49	20.96	20.61	20.25
		1	99	20.89	20.57	20.32
		50	0	20	19.51	19.3
		50	25	20.03	19.51	19.31
		50	50	19.93	19.57	19.25
		100	0	19.93	19.54	19.26
	16QAM	1	0	20.18	19.84	18.99
		1	49	20.07	19.71	18.9
		1	99	20.11	19.71	18.84
		50	0	18.99	18.56	18.33
		50	25	19.02	18.53	18.35
		50	50	18.92	18.55	18.28
		100	0	18.92	18.55	18.3

LTE FDD B66				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				131979	132322	132665
1.4MHz	QPSK	1	0	20.05	21.05	20.83
		1	2	21.14	21.1	20.76
		1	5	21.11	21.02	20.74
		3	0	21.09	20.97	20.76
		3	1	21.07	21.03	20.74
		3	3	21.04	21	20.74
		6	0	20.04	19.97	19.75
	16QAM	1	0	20.15	19.95	19.94
		1	2	20.22	19.92	20.07
		1	5	20.11	19.88	19.86
		3	0	20.01	19.88	19.71
		3	1	19.98	19.88	19.71
		3	3	20	19.78	19.63
		6	0	18.91	18.98	18.82
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				191987	132322	132657
3MHz	QPSK	1	0	21.11	21.08	20.92
		1	8	21.17	21.03	20.8
		1	14	21.13	21.09	20.77
		8	0	20.12	20.05	19.89
		8	4	20.13	20.06	19.89
		8	7	20.15	19.98	19.79
		15	0	20.17	20.03	19.85
	16QAM	1	0	20.32	20.2	20.03
		1	8	20.31	20.19	20
		1	14	20.21	20.11	19.85
		8	0	19.22	19.05	18.89
		8	4	19.23	19.07	18.89
		8	7	19.2	18.99	18.83
		15	0	19.17	18.97	18.84
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				131997	132322	132647
5MHz	QPSK	1	0	21.31	21.2	21.1
		1	12	21.21	21.16	20.93
		1	24	21.2	21.13	20.82
		12	0	20.22	20.1	19.96
		12	6	20.24	20.12	19.95
		12	13	20.18	20.05	19.86
		25	0	20.16	20.05	19.91
	16QAM	1	0	20.34	20.48	20.12

		1	12	20.25	20.32	19.96
		1	24	20.3	20.29	19.89
		12	0	19.23	19.16	18.94
		12	6	19.26	19.13	18.91
		12	13	19.14	19.07	18.8
		25	0	19.2	19.08	18.89
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132022	132322	132622
10MHz	QPSK	1	0	20.54	20.47	20.41
		1	24	21.19	21.11	20.92
		1	49	21.56	21.56	21.3
		25	0	20.11	20.02	19.93
		25	12	20.09	19.96	19.92
		25	25	20.38	20.22	19.98
		50	0	20.2	20.11	19.93
	16QAM	1	0	19.73	19.65	19.53
		1	24	20.34	20.23	20.05
		1	49	20.91	20.71	20.39
		25	0	19.11	19.03	18.86
		25	12	19.12	19.04	18.87
		25	25	19.41	19.21	18.94
		50	0	19.15	19.1	18.88
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132047	132322	132597
15MHz	QPSK	1	0	21.36	21.26	21.28
		1	38	21.23	20.93	20.93
		1	74	21.4	21.13	20.93
		36	0	20.15	20.02	20.04
		36	18	20.18	20.05	20.05
		36	37	20.18	20.03	20.04
		75	0	20.23	19.94	19.93
	16QAM	1	0	20.48	20.63	20.46
		1	38	20.34	20.23	19.98
		1	74	20.5	20.35	20.08
		36	0	19.2	19.05	19.01
		36	18	19.16	19.1	19
		36	37	19.16	19.11	19
		75	0	19.18	18.98	18.9
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132072	132322	232572
20MHz	QPSK	1	0	20.96	21.12	20.99
		1	49	21.27	21.18	21.07
		1	99	21.57	21.58	21.21
		50	0	19.96	19.94	19.92
		50	25	19.97	19.94	19.92

		50	50	20.18	20.03	19.91
		100	0	20.12	20.01	19.92
	16QAM	1	0	19.98	20.02	19.99
		1	49	20.32	20.15	20.12
		1	99	20.68	20.58	20.31
		50	0	18.95	18.91	18.95
		50	25	18.98	18.91	18.96
		50	50	19.2	19.02	18.88
		100	0	19.1	19.01	18.88

LTE FDD B71				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				133147	133297	133447
5MHz	QPSK	1	0	21.64	21.46	21.50
		1	12	21.70	21.60	21.54
		1	24	21.42	21.61	21.39
		12	0	20.59	20.63	20.45
		12	6	20.59	20.55	20.48
		12	13	20.59	20.59	20.45
		25	0	20.63	20.57	20.44
	16QAM	1	0	20.86	20.66	20.68
		1	12	20.75	20.63	20.67
		1	24	20.59	20.60	20.62
		12	0	19.67	19.60	19.51
		12	6	19.67	19.59	19.52
		12	13	19.68	19.59	19.48
		25	0	19.62	19.63	19.43
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				133172	133297	133422
10MHz	QPSK	1	0	20.03	21.43	21.80
		1	24	20.36	21.56	21.47
		1	49	20.07	21.73	21.41
		25	0	19.38	20.65	20.54
		25	12	19.37	20.67	20.52
		25	25	19.20	20.58	20.51
		50	0	19.22	20.66	20.52
	16QAM	1	0	19.65	21.09	20.91
		1	24	19.59	20.74	20.60
		1	49	19.58	20.91	20.70
		25	0	18.47	19.69	19.52
		25	12	18.47	19.65	19.60
		25	25	18.31	19.64	19.54
		50	0	18.31	19.66	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel

				133197	133297	133397
15MHz	QPSK	1	0	20.35	21.53	21.86
		1	38	20.30	21.37	21.34
		1	74	20.19	21.57	21.22
		36	0	19.40	20.84	20.74
		36	18	19.39	20.80	20.75
		36	37	19.39	20.83	20.79
		75	0	19.41	20.61	20.56
	16QAM	1	0	19.85	21.07	21.13
		1	38	19.54	20.51	20.67
		1	74	19.85	20.61	20.70
		36	0	18.46	19.75	19.84
		36	18	18.45	19.82	19.77
		36	37	18.45	19.80	19.84
		75	0	18.44	19.54	19.57
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				133222	133322	133372
20MHz	QPSK	1	0	21.19	21.59	21.45
		1	49	21.29	21.52	21.35
		1	99	20.77	21.45	20.79
		50	0	20.28	20.70	20.74
		50	25	20.24	20.74	20.72
		50	50	20.01	20.52	20.46
		100	0	20.10	20.59	20.52
	16QAM	1	0	20.17	20.56	20.59
		1	49	20.34	20.51	20.49
		1	99	19.82	20.43	20.54
		50	0	19.31	19.68	19.77
		50	25	19.31	19.68	19.72
		50	50	19.08	19.48	19.44
		100	0	19.15	19.59	19.55

9.2. Appendix B: Peak-to-Average Ratio (CCDF)

9.2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18900	6RB#0	6.12	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	6.82	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	6.12	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	6.94	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	6.06	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	6.74	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.88	13	PASS
Band2	10MHz	16QAM	18900	50RB#0	6.64	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	6.08	13	PASS
Band2	15MHz	16QAM	18900	75RB#0	6.60	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.62	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.50	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	6.18	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	6.82	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	6.16	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	6.92	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	6.12	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	6.72	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.88	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	6.56	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	6.30	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	6.68	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.86	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.58	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	6.04	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.66	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	6.16	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.82	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	6.12	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.68	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	6.02	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.66	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.72	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.44	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.62	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.42	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.74	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.38	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.46	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.26	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.98	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.62	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.98	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.76	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.92	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.56	13	PASS

Band12	10MHz	QPSK	23095	50RB#0	5.70	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.44	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.62	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.30	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.58	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.36	13	PASS
Band14	5MHz	QPSK	23305	1RB#0	6.14	13	PASS
Band14	5MHz	QPSK	23305	25RB#0	6.08	13	PASS
Band14	5MHz	QPSK	23330	1RB#0	5.96	13	PASS
Band14	5MHz	QPSK	23330	25RB#0	6.08	13	PASS
Band14	5MHz	QPSK	23355	1RB#0	5.84	13	PASS
Band14	5MHz	QPSK	23355	25RB#0	6.14	13	PASS
Band14	5MHz	16QAM	23305	1RB#0	6.52	13	PASS
Band14	5MHz	16QAM	23305	25RB#0	6.70	13	PASS
Band14	5MHz	16QAM	23330	1RB#0	6.52	13	PASS
Band14	5MHz	16QAM	23330	25RB#0	6.78	13	PASS
Band14	5MHz	16QAM	23355	1RB#0	6.34	13	PASS
Band14	5MHz	16QAM	23355	25RB#0	6.80	13	PASS
Band14	10MHz	QPSK	23330	1RB#0	5.92	13	PASS
Band14	10MHz	QPSK	23330	50RB#0	5.88	13	PASS
Band14	10MHz	16QAM	23330	1RB#0	6.88	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.68	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.94	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.56	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.76	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.46	13	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	5.90	13	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	6.62	13	PASS
Band25	3MHz	QPSK	26365	15RB#0	5.90	13	PASS
Band25	3MHz	16QAM	26365	15RB#0	6.72	13	PASS
Band25	5MHz	QPSK	26365	25RB#0	5.82	13	PASS
Band25	5MHz	16QAM	26365	25RB#0	6.54	13	PASS
Band25	10MHz	QPSK	26365	50RB#0	5.66	13	PASS
Band25	10MHz	16QAM	26365	50RB#0	6.46	13	PASS
Band25	15MHz	QPSK	26365	75RB#0	5.90	13	PASS
Band25	15MHz	16QAM	26365	75RB#0	6.46	13	PASS
Band25	20MHz	QPSK	26365	100RB#0	5.48	13	PASS
Band25	20MHz	16QAM	26365	100RB#0	6.34	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	8.44	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	8.44	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.48	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	10.28	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	9.70	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	10.30	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	9.26	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	10.06	13	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	6.04	13	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	6.70	13	PASS
Band66	3MHz	QPSK	132322	15RB#0	5.98	13	PASS
Band66	3MHz	16QAM	132322	15RB#0	6.72	13	PASS

Band66	5MHz	QPSK	132322	1RB#0	6.24	13	PASS
Band66	5MHz	QPSK	132322	25RB#0	5.98	13	PASS
Band66	5MHz	16QAM	132322	1RB#0	6.60	13	PASS
Band66	5MHz	16QAM	132322	25RB#0	6.58	13	PASS
Band66	10MHz	QPSK	132322	50RB#0	5.84	13	PASS
Band66	10MHz	16QAM	132322	50RB#0	6.52	13	PASS
Band66	15MHz	QPSK	132322	75RB#0	6.18	13	PASS
Band66	15MHz	16QAM	132322	75RB#0	6.52	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.74	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	6.44	13	PASS
Band71	5MHz	QPSK	133147	1RB#0	5.26	13	PASS
Band71	5MHz	QPSK	133147	25RB#0	5.54	13	PASS
Band71	5MHz	QPSK	133297	1RB#0	5.78	13	PASS
Band71	5MHz	QPSK	133297	25RB#0	5.74	13	PASS
Band71	5MHz	QPSK	133447	1RB#0	5.50	13	PASS
Band71	5MHz	QPSK	133447	25RB#0	5.70	13	PASS
Band71	5MHz	16QAM	133147	1RB#0	5.72	13	PASS
Band71	5MHz	16QAM	133147	25RB#0	6.18	13	PASS
Band71	5MHz	16QAM	133297	1RB#0	6.08	13	PASS
Band71	5MHz	16QAM	133297	25RB#0	6.34	13	PASS
Band71	5MHz	16QAM	133447	1RB#0	6.10	13	PASS
Band71	5MHz	16QAM	133447	25RB#0	6.38	13	PASS
Band71	10MHz	QPSK	133172	1RB#0	5.18	13	PASS
Band71	10MHz	QPSK	133172	50RB#0	5.42	13	PASS
Band71	10MHz	QPSK	133297	1RB#0	5.54	13	PASS
Band71	10MHz	QPSK	133297	50RB#0	5.54	13	PASS
Band71	10MHz	QPSK	133422	1RB#0	5.36	13	PASS
Band71	10MHz	QPSK	133422	50RB#0	5.52	13	PASS
Band71	10MHz	16QAM	133172	1RB#0	6.04	13	PASS
Band71	10MHz	16QAM	133172	50RB#0	6.12	13	PASS
Band71	10MHz	16QAM	133297	1RB#0	6.32	13	PASS
Band71	10MHz	16QAM	133297	50RB#0	6.22	13	PASS
Band71	10MHz	16QAM	133422	1RB#0	5.92	13	PASS
Band71	10MHz	16QAM	133422	50RB#0	6.30	13	PASS
Band71	15MHz	QPSK	133197	1RB#0	5.12	13	PASS
Band71	15MHz	QPSK	133197	75RB#0	5.78	13	PASS
Band71	15MHz	QPSK	133297	1RB#0	5.44	13	PASS
Band71	15MHz	QPSK	133297	75RB#0	5.78	13	PASS
Band71	15MHz	QPSK	133397	1RB#0	5.56	13	PASS
Band71	15MHz	QPSK	133397	75RB#0	5.86	13	PASS
Band71	15MHz	16QAM	133197	1RB#0	5.92	13	PASS
Band71	15MHz	16QAM	133197	75RB#0	6.18	13	PASS
Band71	15MHz	16QAM	133297	1RB#0	6.32	13	PASS
Band71	15MHz	16QAM	133297	75RB#0	6.26	13	PASS
Band71	15MHz	16QAM	133397	1RB#0	6.18	13	PASS
Band71	15MHz	16QAM	133397	75RB#0	6.30	13	PASS
Band71	20MHz	QPSK	133222	1RB#0	5.22	13	PASS
Band71	20MHz	QPSK	133222	100RB#0	5.48	13	PASS
Band71	20MHz	QPSK	133322	1RB#0	5.48	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.58	13	PASS

Band71	20MHz	QPSK	133372	1RB#0	5.90	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.64	13	PASS
Band71	20MHz	16QAM	133222	1RB#0	5.72	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.20	13	PASS
Band71	20MHz	16QAM	133322	1RB#0	5.96	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.30	13	PASS
Band71	20MHz	16QAM	133372	1RB#0	6.92	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.32	13	PASS

9.2.2. Test Graphs

