



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

TEST REPORT

For

P40 Agricultural Drone

MODEL NUMBER: 3WWDZ-20BH

FCC ID: 2A46G-3WWDZ-20BH

REPORT NUMBER: 4790254511-6

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Prepared for

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V0	03/31/2022	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: Guangzhou Xaircraft Technology CO.,LTD
 Address: Block C, 115 Gaopu Rd, Tianhe Dist, Guangzhou, Guang-dong, China

Manufacturer Information

Company Name: Guangzhou Xaircraft Technology CO.,LTD
 Address: Block C, 115 Gaopu Rd, Tianhe Dist, Guangzhou, Guang-dong, China

EUT Information

EUT Name: **P40 Agricultural Drone**
 Model: **3WWDZ-20BH**
 Sample Received Date: **February 14, 2022**
 Sample Status: Normal
 Sample ID: 4675027-2
 Date of Tested: **February 14, 2022 ~ March 30, 2022**

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

3. FACILITIES AND ACCREDITATION

<i>Accreditation Certificate</i>	<p>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.</p> <p>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</p> <p>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.</p> <p>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</p>
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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	P40 Agricultural Drone
Model Name	3WWDZ-20BH
Rating	Powered by XAG Smart Battery

Item	Equipment	Mfr/Brand	Model/Type No.	Specification	Series No.
1	Smart Battery	XAG	B13960S	Output: DC48.1V/120A	N/A

5.2. 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	

Mode	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)	23205	23230	23255
		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 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 26 814-824 MHz	TX (1.4 MHz)	26697	26740	26783
		814.7 MHz	819.0 MHz	823.3 MHz
	TX (3 MHz)	26705	26740	26775
		815.5 MHz	819.0 MHz	822.5 MHz
	TX (5 MHz)	26715	26740	26765
		816.5 MHz	819.0 MHz	821.5 MHz
	TX (10 MHz)	/	26740	/
		/	819.0 MHz	/

Mode	TX/RX	Low	Middle	High
LTE Band 26 824-849 MHz	TX (1.4 MHz)	26797	26915	27033
		824.7 MHz	836.5 MHz	848.3 MHz
	TX (3 MHz)	26805	26915	27025
		825.5 MHz	836.5 MHz	847.5 MHz
	TX (5 MHz)	26815	26915	27015
		826.5 MHz	836.5 MHz	846.5 MHz
	TX (10 MHz)	26840	26915	26990
		829.0 MHz	836.5 MHz	844.0 MHz
TX (15 MHz)	26865	26915	26965	
	831.5 MHz	836.5 MHz	841.5 MHz	



Mode	TX/RX	Low	Middle	High
LTE Band 38	TX (5 MHz)	37775	38000	38225
		2572.5 MHz	2595.0 MHz	2617.5 MHz
	TX (10 MHz)	37800	38000	38200
		2575.0MHz	2595.0 MHz	2615.0 MHz
	TX (15 MHz)	37825	38000	38175
		2577.5 MHz	2595.0 MHz	2612.5 MHz
	TX (20 MHz)	37850	38000	38150
		2580.0 MHz	2595.0 MHz	2610.0 MHz

Mode	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



5.3. MAXIMUM AVERAGE OUTPUT POWER

Note: The actual measurement is conducted power, the regulations require the measurement of EIRP/ERP, and Section 5.3 is the result after conversion.

LTE Band 2

Part 24									
EIRP Limit(W)		2							
Antenna Gain (dBi)		2.8							
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	22.56	25.36	0.34	1.088	1M09G7W	
	16QAM			21.73	24.53	0.28	1.088	1M09D7W	
3	QPSK	1851.5	1908.5	22.23	25.03	0.32	2.697	2M70G7W	
	16QAM			21.7	24.5	0.28	2.697	2M70D7W	
5	QPSK	1852.5	1907.5	22.08	24.88	0.31	4.497	4M50G7W	
	16QAM			21.37	24.17	0.26	4.502	4M50D7W	
10	QPSK	1855.0	1905.0	22.48	25.28	0.34	8.968	8M97G7W	
	16QAM			21.59	24.39	0.27	8.957	8M96D7W	
15	QPSK	1857.5	1902.5	22.26	25.06	0.32	13.426	13M43G7W	
	16QAM			22.34	25.14	0.33	13.413	13M41D7W	
20	QPSK	1860.0	1900.0	22.29	25.09	0.32	17.938	17M94G7W	
	16QAM			21.16	23.96	0.25	17.952	17M95D7W	



LTE Band 4

Part 27									
EIRP Limit(W)		1.00							
Antenna Gain (dBi)		2.8							
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	22.63	25.43	0.35	1.089	1M09G7W	
	16QAM			22.17	24.97	0.31	1.09	1M09D7W	
3	QPSK	1711.5	1753.5	22.64	25.44	0.35	2.698	2M70G7W	
	16QAM			21.98	24.78	0.30	2.692	2M70D7W	
5	QPSK	1712.5	1752.5	22.63	25.43	0.35	4.5	4M50G7W	
	16QAM			21.67	24.47	0.28	4.504	4M50D7W	
10	QPSK	1715.0	1750.0	22.72	25.52	0.36	8.954	8M95G7W	
	16QAM			22.05	24.85	0.31	8.953	8M95D7W	
15	QPSK	1717.5	1747.5	22.84	25.64	0.37	13.403	13M40G7W	
	16QAM			21.97	24.77	0.30	13.401	13M40D7W	
20	QPSK	1720.0	1745.0	22.53	25.33	0.34	17.91	17M91G7W	
	16QAM			21.47	24.27	0.27	17.91	17M91D7W	

LTE Band 5

Part 22H									
ERP Limit(W)		7.00							
Antenna Gain (dBi)		2							
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator	
1.4	QPSK	824.7	848.3	23.21	23.06	0.20	1.089	1M09G7W	
	16QAM			22.40	22.25	0.17	1.09	1M09D7W	
3	QPSK	825.5	847.5	22.99	22.84	0.19	2.696	2M70G7W	
	16QAM			21.97	21.82	0.15	2.699	2M70D7W	
5	QPSK	826.5	846.5	22.89	22.74	0.19	4.493	4M49G7W	
	16QAM			21.66	21.51	0.14	4.506	4M50D7W	
10	QPSK	829.0	844.0	23.02	22.87	0.19	8.971	8M97G7W	
	16QAM			22.30	22.15	0.16	8.976	8M97D7W	



**LTE
Band7**

Part 27								
EIRP Limit(W)		2.00						
Antenna Gain (dBi)		2.5						
Band width (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	22.18	24.68	0.29	4.494	4M49G7W
	16QAM			21.33	23.83	0.24	4.49	4M49D7W
10	QPSK	2505.0	2565.0	22.65	25.15	0.33	8.962	8M96G7W
	16QAM			21.79	24.29	0.27	8.955	8M96D7W
15	QPSK	2507.5	2562.5	22.46	24.96	0.31	13.429	13M43G7W
	16QAM			22.13	24.63	0.29	13.427	13M43D7W
20	QPSK	2510.0	2560.0	22.34	24.84	0.30	17.939	17M94G7W
	16QAM			21.16	23.66	0.23	17.952	17M95D7W

**LTE
Band12**

Part 27								
ERP Limit(W)		3.00						
Antenna Gain (dBi)		-3						
Band width (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	699.7	715.3	23.23	18.08	0.06	1.09	1M09G7W
	16QAM			22.30	17.15	0.05	1.089	1M09D7W
3	QPSK	700.5	714.5	23.27	18.12	0.06	2.694	2M70G7W
	16QAM			22.31	17.16	0.05	2.695	2M70D7W
5	QPSK	701.5	713.5	23.14	17.99	0.06	4.495	4M50G7W
	16QAM			22.05	16.9	0.05	4.506	4M50D7W
10	QPSK	704.0	711.0	23.48	18.33	0.07	8.972	8M97G7W
	16QAM			22.74	17.59	0.06	8.964	8M96D7W



**LTE Band
13**

Part 27								
ERP Limit(W)		3.00						
Antenna Gain (dBi)		-2						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	779.5	784.5	22.77	18.62	0.07	4.497	4M50G7W
	16QAM			21.91	17.76	0.06	4.504	4M50D7W
10	QPSK	782	782	22.98	18.83	0.08	8.964	8M96G7W
	16QAM			23.01	18.86	0.08	8.955	8M95D7W

**LTE Band
25**

Part 24								
EIRP Limit(W)		2.00						
Antenna Gain (dBi)		2.8						
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	23.1	25.9	0.39	1.089	1M09G7W
	16QAM			22.45	25.25	0.33	1.09	1M09D7W
3	QPSK	1851.5	1913.5	23.27	26.07	0.40	2.698	2M70G7W
	16QAM			22.66	25.46	0.35	2.696	2M70D7W
5	QPSK	1852.5	1912.5	23.1	25.9	0.39	4.498	4M50G7W
	16QAM			22.45	25.25	0.33	4.508	4M51D7W
10	QPSK	1855.0	1910.0	23.5	26.3	0.43	8.963	8M96G7W
	16QAM			23.04	25.84	0.38	8.955	8M96D7W
15	QPSK	1857.5	1907.5	23.27	26.07	0.40	13.408	13M41G7W
	16QAM			22.64	25.44	0.35	13.406	13M41D7W
20	QPSK	1860.0	1905.0	23.36	26.16	0.41	17.904	17M90G7W
	16QAM			21.98	24.78	0.30	17.903	17M90D7W

**LTE Band 26**

Part 90S								
Conducted Limit(W)		100.00						
Antenna Gain (dBi)		2						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	814.7	823.3	22.6	/	/	1.089	1M09G7W
	16QAM			21.86	/	/	1.09	1M09D7W
3	QPSK	815.5	822.5	22.64	/	/	2.696	2M70G7W
	16QAM			22.17	/	/	2.702	2M70D7W
5	QPSK	816.5	821.5	22.67	/	/	4.497	4M50G7W
	16QAM			21.41	/	/	4.496	4M50D7W
10	QPSK	819	819	22.66	/	/	8.99	8M99G7W
	16QAM			22.38	/	/	8.991	8M99D7W
Part 22								
ERP(W)		7						
Antenna Gain (dBi)		2						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	824.7	848.3	23.07	22.92	0.20	1.09	1M09G7W
	16QAM			22.14	21.99	0.16	1.091	1M09D7W
3	QPSK	825.5	847.5	22.82	22.67	0.18	2.7	2M70G7W
	16QAM			22.07	21.92	0.16	2.699	2M70D7W
5	QPSK	826.5	846.5	22.81	22.66	0.18	4.497	4M50G7W
	16QAM			21.49	21.34	0.14	4.505	4M51D7W
10	QPSK	829	844	22.91	22.76	0.19	8.985	8M98G7W
	16QAM			22.17	22.02	0.16	8.983	8M98D7W
15	QPSK	831.5	841.5	22.78	22.63	0.18	13.453	13M5G7W
	16QAM			22.32	22.17	0.16	13.443	13M4D7W

**LTE
Band 38**

Part 27								
EIRP Limit(W)		2.00						
Antenna Gain (dBi)		2.5						
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	2572.5	2617.5	22.63	25.13	0.33	4.496	4M50G7W
	16QAM			21.33	23.83	0.24	4.486	4M49D7W
10	QPSK	2575.0	2615.0	22.31	24.81	0.30	8.954	8M95G7W
	16QAM			21.5	24	0.25	8.956	8M94D7W
15	QPSK	2577.5	2612.5	22.21	24.71	0.30	13.433	13M4G7W
	16QAM			21.48	23.98	0.25	13.431	13M4D7W
20	QPSK	2580.0	2610.0	22.27	24.77	0.30	17.963	18M0G7W
	16QAM			21.15	23.65	0.23	17.947	18M0D7W

**LTE
Band 41**

Part 27								
EIRP Limit(W)		2.00						
Antenna Gain (dBi)		2.5						
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	22.43	24.93	0.31	4.499	4M50G7W
	16QAM			21.03	23.53	0.23	4.487	4M49D7W
10	QPSK	2501.0	2685.0	22.58	25.08	0.32	8.955	8M96G7W
	16QAM			21.82	24.32	0.27	8.959	8M96D7W
15	QPSK	2503.5	2682.5	22.44	24.94	0.31	13.434	13M4G7W
	16QAM			21.68	24.18	0.26	13.424	13M4D7W
20	QPSK	2506.0	2680.0	22.29	24.79	0.30	17.946	18M0G7W
	16QAM			20.92	23.42	0.22	17.94	18M0D7W

5.4. 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

5.5. DESCRIPTION OF AVAILABLE ANTENNAS

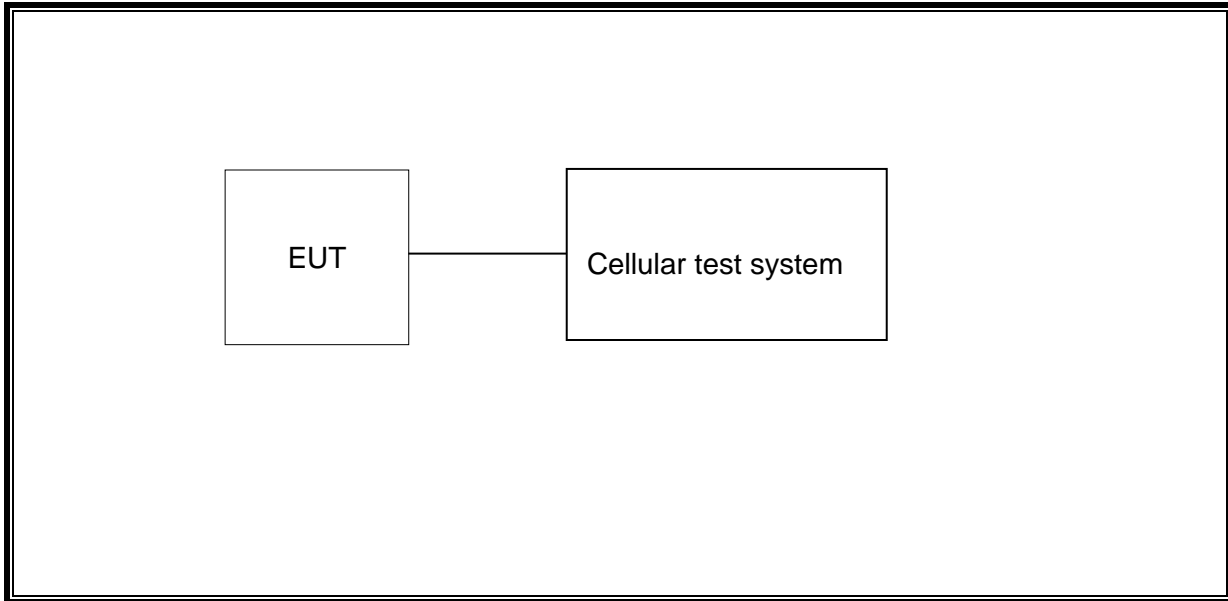
Antenna	Band	Antenna Type	MAX Antenna Gain (dBi)
1	LTE Band 2	PIFA	2.8
1	LTE Band 4	PIFA	2.8
1	LTE Band 5	PIFA	2
1	LTE Band 7	PIFA	2.5
1	LTE Band 12	PIFA	-3
1	LTE Band 13	PIFA	-2
1	LTE Band 25	PIFA	2.8
1	LTE Band 26	PIFA	2
1	LTE Band 38	PIFA	2.5
1	LTE Band 41	PIFA	2.5

Band	Transmit and Receive Mode	Description
LTE Band 2	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
LTE Band 4	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
LTE Band 5	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
LTE Band 7	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
LTE Band 12	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
LTE Band 13	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
LTE Band 25	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
LTE Band 26	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
LTE Band 38	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
LTE Band 41	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.

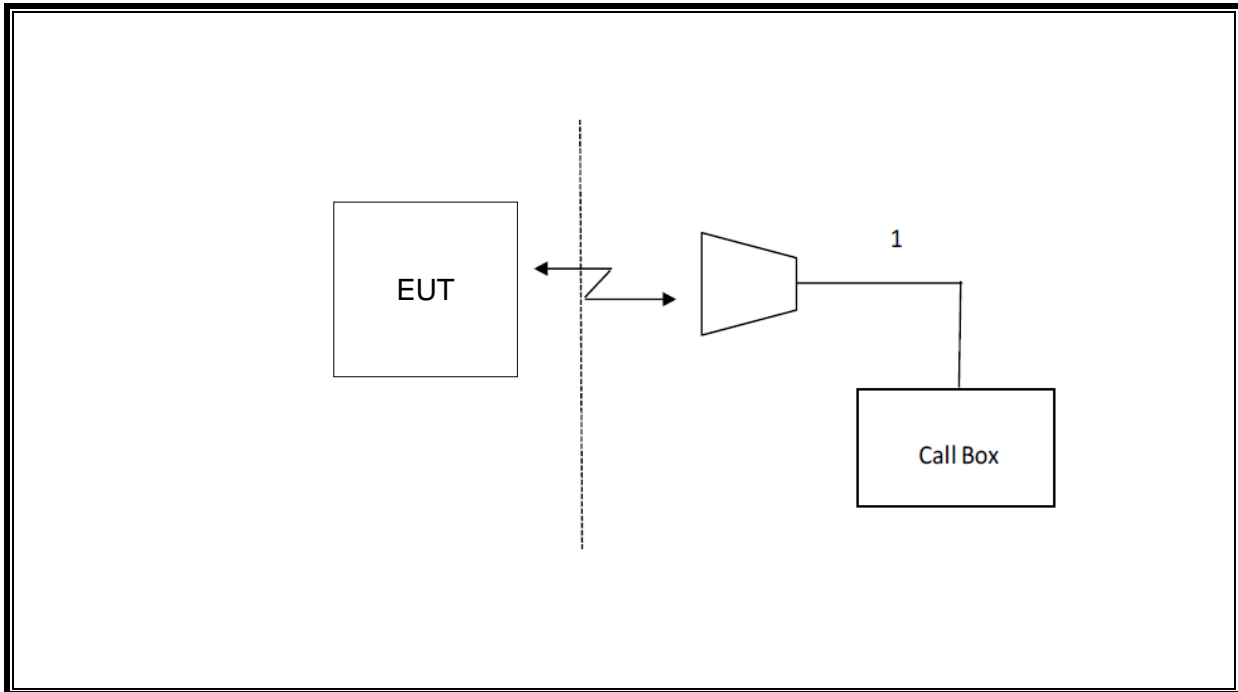
Note: The value of the antenna gain was declared by customer.

5.6. DESCRIPTION OF TEST SETUP

Conducted



Radiated



**6. MEASURING INSTRUMENT AND SOFTWARE USED**

Antenna Terminal Test						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	Spectrum Analyzer	R&S	FSW40	S421035420	Oct.30, 2021	Oct.29, 2022
<input checked="" type="checkbox"/>	Wideband Radio Communication Tester	R&S	CMW500	155523	Oct.30, 2021	Oct.29, 2022
<input checked="" type="checkbox"/>	DC Power Supply	Array	3662A	A1512015	Oct.30, 2021	Oct.29, 2022
Software						
Used	Description	Manufacturer	Name	Version		
<input checked="" type="checkbox"/>	Tonsend Cellular Test System	Tonsend	JS1120 RF Auto Test System	2.6.9.0826		
Radiated Test						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.30, 2021	Oct.29, 2022
<input checked="" type="checkbox"/>	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Aug.02, 2021	Aug.01, 2024
<input checked="" type="checkbox"/>	Preamplifier	HP	8447D	2944A09099	Oct.30, 2021	Oct.29, 2022
<input checked="" type="checkbox"/>	EMI Measurement Receiver	R&S	ESR26	101377	Oct.30, 2021	Oct.29, 2022
<input checked="" type="checkbox"/>	Horn Antenna	TDK	HRN-0118	130939	July 20, 2021	July 19, 2024
<input checked="" type="checkbox"/>	High Gain Horn Antenna	Schwarzbeck	BBHA-9170	691	July 20, 2021	July 19, 2024
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-0118	TRS-305-00066	Oct.31, 2021	Oct.30, 2022
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-2	TRS-307-00003	Oct.31, 2021	Oct.30, 2022
<input checked="" type="checkbox"/>	Loop antenna	Schwarzbeck	1519B	00008	Jan.17,2022	Jan.17,2025
<input checked="" type="checkbox"/>	High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Oct.31, 2021	Oct.30, 2022
Software						
Used	Description	Manufacturer	Name	Version		
<input checked="" type="checkbox"/>	Test Software for Radiated disturbance	Farad	EZ-EMC	Ver. UL-3A1		

7. ANTENNA TERMINAL TEST RESULTS

Note: All the conducted test data transfer to the ERP/EIRP values, It comply with the limit requirement, Only the Conducted test data were showed in the test report.

7.1. EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.50, §90

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.

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);

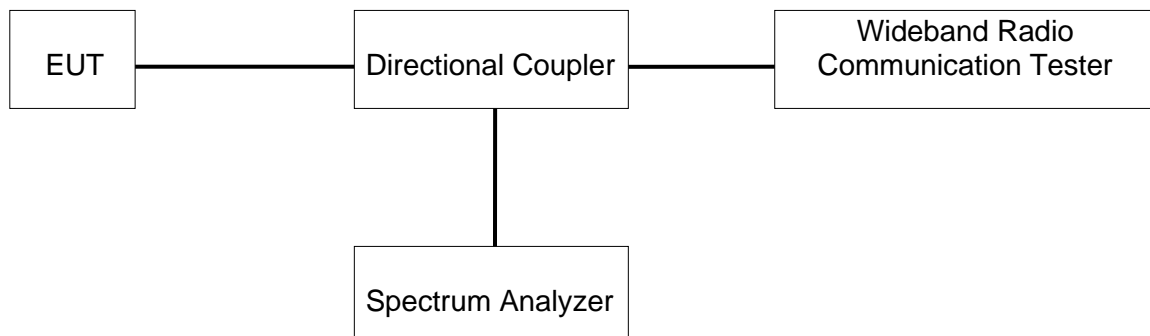
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

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	22.8°C	Relative Humidity	58.3%
Atmosphere Pressure	101kPa	Test Voltage	/

MAXIMUM EIRP/ERP FOR EACH BAND**LTE Band 2**

Part 24						
EIRP Limit(W)		2				
Antenna Gain (dBi)		2.8				
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)
1.4	QPSK	1850.7	1909.3	22.56	25.36	0.34

LTE Band 4

Part 27						
EIRP Limit(W)		1.00				
Antenna Gain (dBi)		2.8				
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)
15	QPSK	1717.5	1747.5	22.84	25.64	0.37

LTE Band 5

Part 22H						
ERP Limit(W)		7.00				
Antenna Gain (dBi)		2				
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)
1.4	QPSK	824.7	848.3	23.21	23.06	0.20



LTE Band7

Part 27						
EIRP Limit(W)		2.00				
Antenna Gain (dBi)		2.5				
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)
10	QPSK	2505.0	2565.0	22.65	25.15	0.33

LTE Band12

Part 27						
ERP Limit(W)		3.00				
Antenna Gain (dBi)		-3				
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)
10	QPSK	704.0	711.0	23.48	18.33	0.07

LTE Band 13

ERP Limit(W)		3.00				
Antenna Gain (dBi)		-2				
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)
10	16QAM	782	782	23.01	18.86	0.08

LTE Band 25

Part 24						
EIRP Limit(W)		2.00				
Antenna Gain (dBi)		2.8				
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)
10	QPSK	1855.0	1910.0	23.5	26.3	0.43

**LTE Band 26**

Part 90S						
Conducted Limit(W)		100.00				
Antenna Gain (dBi)		2				
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)
5	QPSK	816.5	821.5	22.67	/	/
Part 22						
ERP(W)		7				
Antenna Gain (dBi)		2				
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)
1.4	QPSK	824.7	848.3	23.07	22.92	0.20

LTE Band 38

Part 27						
EIRP Limit(W)		2.00				
Antenna Gain (dBi)		2.5				
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)
5	QPSK	2572.5	2617.5	22.63	25.13	0.33

LTE Band 41

Part 27						
EIRP Limit(W)		2.00				
Antenna Gain (dBi)		2.5				
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)
10	QPSK	2501.0	2685.0	22.58	25.08	0.32

**RESULT**

LTE FDD B2				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0	21.62	22.46	21.81
		1	2	21.61	22.56	21.73
		1	5	21.63	22.56	21.52
		3	0	21.65	22.25	21.46
		3	1	21.61	22.28	21.62
		3	3	21.49	22.27	21.46
	16QAM	6	0	20.62	21.33	20.57
		1	0	20.51	21.43	20.84
		1	2	20.52	21.55	21.14
		1	5	20.35	21.73	20.96
		3	0	20.26	21.63	20.55
		3	1	20.48	21.44	20.49
		3	3	20.68	21.43	20.28
		6	0	19.3	20.21	19.38
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18615	18900	19185
3MHz	QPSK	1	0	21.63	22.2	21.51
		1	8	21.52	22.23	21.46
		1	14	21.52	22.13	21.36
		8	0	20.6	21.16	20.56
		8	4	20.52	21.21	20.56
		8	7	20.56	21.26	20.48
	16QAM	15	0	20.59	21.14	20.52
		1	0	20.84	21.7	20.35
		1	8	20.85	21.43	20.29
		1	14	20.66	21.61	20.24
		8	0	19.62	20.14	19.59
		8	4	19.63	20.41	19.52
		8	7	19.63	20.35	19.22
		15	0	19.54	20.23	19.72
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0	21.35	21.93	21.34
		1	12	21.44	22.05	21.72
		1	24	21.29	22.08	21.48
		12	0	20.53	21.16	20.48
		12	6	20.52	21.34	20.61
		12	13	20.54	21.23	20.62
		25	0	20.55	21.19	20.6



	16QAM	1	0	20.32	21.1	20.33
		1	12	20.33	21.37	20.67
		1	24	20.1	21.24	20.36
		12	0	19.57	20.46	19.57
		12	6	19.66	20.34	19.52
		12	13	19.38	20.35	19.44
		25	0	19.61	20.3	19.71
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0	21.7	22.24	21.53
		1	24	21.71	22.48	21.72
		1	49	21.83	22.36	21.75
		25	0	20.74	21.18	20.53
		25	12	20.62	21.37	20.6
		25	25	20.7	21.29	20.63
		50	0	20.62	21.28	20.52
	16QAM	1	0	20.91	21.54	20.37
		1	24	21.23	21.59	20.3
		1	49	20.99	21.57	20.44
		25	0	19.67	20.3	19.58
		25	12	19.61	20.58	19.83
		25	25	19.59	20.52	19.86
		50	0	19.68	20.33	19.57
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0	21.76	22.09	21.68
		1	38	21.68	22.26	21.4
		1	74	21.86	22.21	21.54
		38	0	20.67	21.22	20.59
		38	18	20.72	21.34	20.49
		38	37	20.72	21.34	20.55
		75	0	20.8	21.19	20.42
	16QAM	1	0	21.13	21.66	20.67
		1	38	21.14	22.34	20.29
		1	74	20.92	21.59	20.31
		38	0	19.6	20.48	19.58
		38	18	19.71	20.53	19.51
		38	37	19.71	20.46	19.46
		75	0	19.81	20.39	19.62
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0	21.61	22.01	21.81
		1	49	21.72	22.29	21.56
		1	99	21.78	21.94	21.4



		50	0	20.66	21.13	20.78
		50	25	20.74	21.29	20.6
		50	50	20.79	21.12	20.52
		100	0	20.74	21.08	20.64
	16QAM	1	0	20.54	20.74	20.65
		1	49	20.39	21.16	20.29
		1	99	20.1	20.72	20.2
		50	0	19.77	20.06	19.83
		50	25	19.58	20.48	19.57
		50	50	19.68	20.29	19.62
		100	0	19.83	20.16	19.75



LTE FDD B4				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19957	20175	20393
1.4MHz	QPSK	1	0	22.59	22.5	22.45
		1	2	22.29	22.46	22.63
		1	5	22.35	22.3	22.36
		3	0	22.43	22.47	22.48
		3	1	22.59	22.52	22.34
		3	3	22.44	22.59	22.4
		6	0	21.5	21.53	21.35
	16QAM	1	0	21.78	21.33	21.48
		1	2	22.17	21.32	21.69
		1	5	21.8	21.28	21.59
		3	0	21.73	21.21	21.58
		3	1	21.55	21.27	21.61
		3	3	21.27	21.55	21.59
		6	0	20.44	20.77	20.24
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
3MHz	QPSK	1	0	22.55	22.55	22.45
		1	8	22.32	22.64	22.4
		1	14	22.4	22.57	22.44
		8	0	21.54	21.61	21.44
		8	4	21.38	21.69	21.53
		8	7	21.32	21.59	21.56
		15	0	21.37	21.56	21.48
	16QAM	1	0	21.83	21.96	21.2
		1	8	21.58	21.65	21.11
		1	14	21.61	21.66	21.05
		8	0	20.85	20.72	20.38
		8	4	20.39	20.59	20.68
		8	7	20.42	20.5	20.61
		15	0	20.52	20.65	20.49
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
5MHz	QPSK	1	0	22.37	22.47	22.5
		1	12	22.43	22.36	22.63
		1	24	22.23	22.41	22.43
		12	0	21.43	21.66	21.48
		12	6	21.29	21.59	21.61
		12	13	21.27	21.56	21.66
		25	0	21.38	21.54	21.49
	16QAM	1	0	21.24	21.49	21.25
		1	12	21.41	21.4	21.67



		1	24	21.1	21	21.39
		12	0	20.42	20.76	20.5
		12	6	20.26	20.69	20.52
		12	13	20.3	20.47	20.58
		25	0	20.48	20.74	20.8
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350
10MHz	QPSK	1	0	22.6	22.51	22.62
		1	24	22.62	22.67	22.58
		1	49	22.48	22.58	22.72
		25	0	21.34	21.5	21.43
		25	12	21.42	21.56	21.58
		25	25	21.33	21.62	21.53
		50	0	21.34	21.6	21.39
	16QAM	1	0	21.76	21.77	21.26
		1	24	21.6	22.05	21.33
		1	49	21.56	21.46	21.23
		25	0	20.57	20.71	20.45
		25	12	20.53	20.78	20.77
		25	25	20.29	20.54	20.73
		50	0	20.35	20.64	20.6
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0	22.54	22.3	22.64
		1	38	22.58	22.6	22.45
		1	74	22.84	22.32	22.68
		38	0	21.35	21.57	21.47
		38	18	21.39	21.57	21.53
		38	37	21.34	21.52	21.58
		75	0	21.22	21.48	21.5
	16QAM	1	0	21.68	21.73	21.55
		1	38	21.61	21.97	21.36
		1	74	21.84	21.96	21.46
		38	0	20.44	20.63	20.56
		38	18	20.39	20.6	20.73
		38	37	20.36	20.43	20.68
		75	0	20.55	20.69	20.53
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0	22.29	22.31	22.42
		1	49	22.23	22.53	22.53
		1	99	22.47	22.51	22.44
		50	0	21.19	21.6	21.64
		50	25	21.24	21.68	21.61
		50	50	21.53	21.64	21.61



	16QAM	100	0	21.34	21.49	21.63
		1	0	21.18	20.71	21.46
		1	49	20.53	21.47	21.35
		1	99	21.32	20.96	21.33
		50	0	20.35	20.7	20.79
		50	25	20.43	20.68	20.76
		50	50	20.53	20.47	20.66
		100	0	20.35	20.57	20.68

LTE FDD B5				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20407	20525	20643
1.4MHz	QPSK	1	0	22.53	22.59	23.21
		1	2	22.47	22.51	22.89
		1	5	22.34	22.42	23.07
		3	0	22.36	22.46	22.88
		3	1	22.28	22.42	22.99
		3	3	22.36	22.39	23
		6	0	21.38	21.59	21.98
	16QAM	1	0	21.85	21.55	22.4
		1	2	22.02	21.69	22.4
		1	5	21.69	21.6	22.39
		3	0	21.47	21.69	22.09
		3	1	21.35	21.73	22.05
		3	3	21.27	21.55	22.22
		6	0	20.09	20.28	20.97
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20415	20525	20635
3MHz	QPSK	1	0	22.34	22.35	22.78
		1	8	22.33	22.49	22.94
		1	14	22.65	22.64	22.99
		8	0	21.37	21.39	21.82
		8	4	21.38	21.56	22.01
		8	7	21.24	21.46	22.01
		15	0	21.3	21.27	21.89
	16QAM	1	0	21.93	21.69	21.44
		1	8	21.34	21.94	21.64
		1	14	21.97	21.88	21.75
		8	0	20.34	20.22	20.82
		8	4	20.39	20.57	21.11
		8	7	20.31	20.4	20.9
		15	0	20.2	20.49	20.95
Bandwidth	Modulation			Channel	Channel	Channel



		RB size	RB offset	20425	20525	20625
5MHz	QPSK	1	0	22.18	22.15	22.67
		1	12	22.55	22.47	22.89
		1	24	22.36	22.53	22.83
		12	0	21.29	21.29	21.77
		12	6	21.37	21.46	21.87
		12	13	21.37	21.52	21.96
		25	0	21.34	21.32	21.92
	16QAM	1	0	21.08	21.35	21.38
		1	12	21.19	21.59	21.43
		1	24	20.86	21.44	21.66
		12	0	20.22	20.48	20.65
		12	6	20.36	20.49	20.68
		12	13	20.25	20.55	20.77
		25	0	20.42	20.25	21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20450	20525	20600
10MHz	QPSK	1	0	22.18	22.27	22.42
		1	24	22.69	22.63	22.89
		1	49	22.42	23.02	22.96
		25	0	21.41	21.37	21.78
		25	12	21.39	21.43	21.79
		25	25	21.28	21.63	21.8
		50	0	21.36	21.44	21.78
	16QAM	1	0	21.45	21.54	21.27
		1	24	22.3	22.06	21.55
		1	49	21.52	22.09	21.72
		25	0	20.43	20.43	20.62
		25	12	20.54	20.56	20.73
		25	25	20.33	20.6	20.75
		50	0	20.29	20.42	20.82



LTE FDD B7				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	21.88	22.05	21.66
		1	12	22.04	22.18	22.05
		1	24	21.85	22.01	21.86
		12	0	21.07	21.24	20.93
		12	6	21.16	21.25	20.98
		12	13	21.06	21.22	21.03
		25	0	21.06	21.24	21
	16QAM	1	0	20.88	21.21	20.56
		1	12	21.21	21.33	20.62
		1	24	20.83	21.14	20.94
		12	0	20.26	20.41	19.95
		12	6	20.16	20.32	20.1
		12	13	20.15	20.28	20.05
		25	0	20.21	20.4	20.16
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
10MHz	QPSK	1	0	22.17	22.4	21.8
		1	24	22.5	22.65	22.29
		1	49	22.28	22.16	22.2
		25	0	21.28	21.38	21.01
		25	12	21.25	21.41	21.04
		25	25	21.19	21.18	21.06
		50	0	21.1	21.33	20.99
	16QAM	1	0	21.47	21.64	21.24
		1	24	21.72	21.79	21.75
		1	49	21.41	21.03	21.41
		25	0	20.14	20.28	19.9
		25	12	20.2	20.5	19.96
		25	25	20.17	20.27	20.04
		50	0	20.15	20.33	20.05
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
15MHz	QPSK	1	0	22.21	22.2	21.84
		1	38	22.46	22.29	21.93
		1	74	22.28	22.1	22.15
		38	0	21.25	21.41	20.92
		38	18	21.25	21.4	20.97
		38	37	21.25	21.26	21.01
		75	0	21.15	21.32	20.95
	16QAM	1	0	21.52	21.65	20.92
		1	38	21.59	22.13	20.71
		1	38	21.59	22.13	20.71



		1	74	21.52	21.58	20.94
		38	0	20.1	20.4	19.97
		38	18	20.23	20.29	19.95
		38	37	20.2	20.15	19.97
		75	0	20.4	20.38	20.11
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20850	21100	21350
20MHz	QPSK	1	0	21.88	21.95	21.8
		1	49	22.34	22.19	22.1
		1	99	22.08	22.13	22.02
		50	0	21.11	21.39	20.97
		50	25	21.27	21.37	21.09
		50	50	21.21	21.2	21.04
		100	0	21.21	21.25	21.1
	16QAM	1	0	21.07	20.98	20.75
		1	49	21.04	21.16	20.64
		1	99	20.65	20.44	20.88
		50	0	20.17	20.35	20.08
		50	25	20.38	20.31	20.08
		50	50	20.17	20.03	19.96
		100	0	20.16	20.2	20.07



LTE FDD B12				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23017	23095	23173
1.4MHz	QPSK	1	0	22.66	22.74	23.1
		1	2	22.47	22.97	23.23
		1	5	22.5	22.87	23.02
		3	0	22.71	22.8	23.15
		3	1	22.57	23.08	23.04
		3	3	22.58	22.91	23
		6	0	21.63	21.89	21.98
	16QAM	1	0	21.99	21.72	22.15
		1	2	22.12	21.87	22.3
		1	5	22.1	21.65	22.05
		3	0	21.66	21.61	22.27
		3	1	21.37	21.65	22.04
		3	3	21.49	21.99	22.21
		6	0	20.6	20.97	20.91
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
3MHz	QPSK	1	0	22.77	23.07	23.27
		1	8	22.86	22.81	23.13
		1	14	22.58	22.95	22.9
		8	0	21.81	21.89	22.09
		8	4	21.64	22.02	22.16
		8	7	21.68	22.03	22.08
		15	0	21.61	21.86	22.09
	16QAM	1	0	22	22.04	21.9
		1	8	22.17	22.26	21.74
		1	14	21.75	22.31	21.61
		8	0	20.77	20.89	21.06
		8	4	21.04	21.01	21.05
		8	7	20.77	20.79	20.96
		15	0	20.61	20.86	21.03
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
5MHz	QPSK	1	0	22.47	22.73	23.07
		1	12	22.55	22.89	23.14
		1	24	22.47	22.95	22.79
		12	0	21.71	21.92	22
		12	6	21.68	21.96	21.96
		12	13	21.53	22	22.01
		25	0	21.7	21.85	22
	16QAM	1	0	21.46	21.89	21.85
		1	12	21.76	22.05	21.62



		1	24	21.57	21.94	21.88
		12	0	20.71	20.83	20.91
		12	6	20.74	20.97	20.88
		12	13	20.59	21.02	20.84
		25	0	20.71	20.95	20.94
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23060	23095	23130
10MHz	QPSK	1	0	22.73	22.67	22.79
		1	24	23.04	23.12	23.08
		1	49	23.23	23.48	22.85
		25	0	21.66	21.83	22.02
		25	12	21.71	21.94	22.15
		25	25	21.97	22.03	22.03
		50	0	21.73	21.87	21.97
	16QAM	1	0	21.95	21.98	21.73
		1	24	22.33	22.44	21.9
		1	49	22.74	22.52	21.67
		25	0	20.43	20.64	20.99
		25	12	20.73	20.97	21.05
		25	25	20.89	20.96	20.96
		50	0	20.75	20.9	20.99



LTE FDD B13				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23205	23230	23255
5MHz	QPSK	1	0	22.64	22.52	22.61
		1	12	22.57	22.77	22.74
		1	24	22.55	22.65	22.66
		12	0	21.78	21.84	21.83
		12	6	21.84	21.78	21.84
		12	13	21.85	21.79	21.84
		25	0	21.78	21.76	21.84
	16QAM	1	0	21.89	21.4	21.55
		1	12	21.81	21.77	21.69
		1	24	21.91	21.63	21.57
		12	0	20.95	20.74	20.77
		12	6	20.93	20.66	20.8
		12	13	20.95	20.67	20.77
		25	0	20.82	20.79	20.92
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
10MHz	QPSK		0	22.95		
			24	22.98		
			49	22.75		
		25	0	21.9		
		25	12	21.84		
		25	25	21.84		
		50	0	21.83		
	16QAM	1	0	22.24		
		1	24	23.01		
		1	49	22.28		
		25	0	20.84		
		25	12	20.94		
		25	25	20.85		
		50	0	20.82		



LTE FDD B25				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26047	26365	26683
1.4MHz	QPSK	1	0	22.25	23.13	22.56
		1	2	22.24	23.21	22.72
		1	5	22.19	22.98	22.33
		3	0	22.18	23.13	22.54
		3	1	22.31	23.08	22.53
		3	3	22.24	22.98	22.23
		6	0	21.29	22.02	21.77
	16QAM	1	0	21.31	22.14	21.93
		1	2	21.71	22.35	21.95
		1	5	21.34	22.09	21.63
		3	0	21.43	22.31	21.92
		3	1	21.54	22.25	21.76
		3	3	21.48	22.26	21.46
		6	0	20.22	21.29	20.87
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26055	26365	26675
3MHz	QPSK	1	0	22.4	23.27	22.57
		1	8	22.29	23.09	22.48
		1	14	22.39	23.14	22.29
		8	0	21.31	22.1	21.69
		8	4	21.25	22.21	21.6
		8	7	21.17	22.06	21.68
		15	0	21.22	22.1	21.71
	16QAM	1	0	21.69	22.43	21.97
		1	8	21.46	22.62	21.94
		1	14	21.52	22.66	21.76
		8	0	20.41	21.14	20.84
		8	4	20.39	21.17	20.69
		8	7	20.38	21.09	20.44
		15	0	20.38	21.09	20.86
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26065	26365	26665
5MHz	QPSK	1	0	22.42	23.1	22.32
		1	12	22.38	23.06	22.43
		1	24	22.23	22.9	22.24
		12	0	21.39	22.12	21.64
		12	6	21.4	22.16	21.54
		12	13	21.42	22.08	21.55
		25	0	21.34	22.07	21.66
	16QAM	1	0	21.12	21.94	21.4
		1	12	21.26	22.45	21.58



Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
		26090	26365	26640		
10MHz	QPSK	1	0	22.52	23.2	22.38
		1	24	22.61	23.5	22.47
		1	49	22.57	23.05	21.76
		25	0	21.44	22.17	21.52
		25	12	21.4	22.18	21.39
		25	25	21.39	22.15	21.52
		50	0	21.51	22.08	21.44
	16QAM	1	0	22.02	22.48	21.8
		1	24	22.13	23.04	22.02
		1	49	21.72	22.64	21.22
		25	0	20.47	21.16	20.69
		25	12	20.49	21.21	20.59
		25	25	20.4	21.16	20.63
		50	0	20.58	21.18	20.54
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel
15MHz	QPSK	1	0	22.74	23.05	22.3
		1	38	22.63	23.27	22.5
		1	74	22.55	22.96	21.73
		38	0	21.56	22.17	21.48
		38	18	21.37	22.25	21.54
		38	37	21.49	22.1	21.39
		75	0	21.48	22.05	21.42
	16QAM	1	0	22.15	22.64	21.37
		1	38	21.82	22.56	21.29
		1	74	21.77	22.31	21.04
		38	0	20.59	21.31	20.51
		38	18	20.44	21.27	20.65
		38	37	20.57	21.19	20.62
		75	0	20.59	21.24	20.64
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel
20MHz	QPSK	1	0	22.28	22.95	22.59
		1	49	22.44	23.36	22.81
		1	99	22.65	22.72	21.58
		50	0	21.63	22.2	21.52
		50	25	21.58	22.26	21.49
		50	50	21.69	22.07	21.6



		100	0	21.59	22.22	21.54
	16QAM	1	0	21.22	21.93	21.87
		1	49	20.96	21.98	21.39
		1	99	21.01	21.61	20.93
		50	0	20.75	21.25	20.68
		50	25	20.46	21.3	20.62
		50	50	20.61	21.13	20.65
		100	0	20.59	21.11	20.57



LTE FDD B26				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26697	26740	26783
1.4MHz	QPSK	1	0	22.47	22.35	22.39
		1	2	22.39	22.44	22.52
		1	5	21.99	22.59	22.6
		3	0	22.38	22.32	22.37
		3	1	22.23	22.29	22.46
		3	3	22.2	22.29	22.43
		6	0	21.35	21.4	21.37
	16QAM	1	0	21.65	21.62	21.46
		1	2	21.72	21.86	21.7
		1	5	21.18	21.57	21.47
		3	0	21.44	21.45	21.6
		3	1	21.38	21.26	21.56
		3	3	21.14	21.53	21.55
		6	0	20.33	20.26	20.26
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
3MHz	QPSK	1	0	22.39	22.49	22.36
		1	8	22.27	22.44	22.64
		1	14	22.23	22.33	22.6
		8	0	21.5	21.12	21.5
		8	4	21.34	21.35	21.48
		8	7	21.18	21.31	21.45
		15	0	21.25	21.31	21.42
	16QAM	1	0	21.51	21.42	21.5
		1	8	21.33	21.65	22.17
		1	14	21.31	21.74	21.91
		8	0	20.4	20.31	20.45
		8	4	20.3	20.2	20.51
		8	7	20.24	20.15	20.76
		15	0	20.25	20.43	20.29
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
5MHz	QPSK	1	0	22.18	22.13	22.31
		1	12	22.31	22.37	22.67
		1	24	22.1	22.25	22.65
		12	0	21.44	21.5	21.51
		12	6	21.29	21.42	21.58
		12	13	21.29	21.4	21.58
		25	0	21.41	21.39	21.51
	16QAM	1	0	21.27	21.25	21.35
		1	12	21.41	21.33	21.34



		1	24	21.13	21.24	21.34
		12	0	20.38	20.56	20.59
		12	6	20.34	20.64	20.55
		12	13	20.33	20.52	20.56
		25	0	20.53	20.29	20.73
Bandwidth	Modulation	RB size	RB offset	Channel		
				26740		
10MHz	QPSK	1	0	22.47		
		1	24	22.66		
		1	49	22.44		
		25	0	21.51		
		25	12	21.57		
		25	25	21.44		
		50	0	21.43		
	16QAM	1	0	21.86		
		1	24	22.38		
		1	49	21.67		
		25	0	20.49		
		25	12	20.5		
		25	25	20.47		
		50	0	20.47		



LTE FDD B26				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26797	26915	27033
1.4MHz	QPSK	1	0	22.71	22.14	23.04
		1	2	22.37	22.3	22.98
		1	5	22.52	22.28	23.07
		3	0	22.5	22.23	22.86
		3	1	22.46	22.37	22.86
		3	3	22.43	22.36	22.84
		6	0	21.45	21.31	21.8
	16QAM	1	0	21.78	21.15	21.57
		1	2	22.14	21.19	22.09
		1	5	21.9	21.07	21.84
		3	0	21.55	21.27	22.01
		3	1	21.54	21.01	22.11
		3	3	21.48	21.43	22
		6	0	20.35	20.58	20.71
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
3MHz	QPSK	1	0	22.36	22.46	22.76
		1	8	22.42	22.47	22.68
		1	14	22.67	22.46	22.82
		8	0	21.35	21.46	21.87
		8	4	21.37	21.42	21.87
		8	7	21.42	21.41	21.77
		15	0	21.5	21.37	21.86
	16QAM	1	0	21.63	21.7	21.43
		1	8	21.43	21.71	21.4
		1	14	22.07	21.79	21.45
		8	0	20.65	20.26	20.83
		8	4	20.39	20.51	20.83
		8	7	20.36	20.5	20.73
		15	0	20.37	20.54	20.79
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
5MHz	QPSK	1	0	22.44	22.22	22.66
		1	12	22.47	22.37	22.65
		1	24	22.6	22.29	22.81
		12	0	21.29	21.47	21.83
		12	6	21.53	21.44	21.81
		12	13	21.42	21.52	21.79
		25	0	21.32	21.39	21.8
	16QAM	1	0	21.2	21.18	21.39
		1	12	21.49	21.32	21.37



		1	24	21.02	21.45	21.02
		12	0	20.34	20.59	20.85
		12	6	20.42	20.55	20.7
		12	13	20.35	20.53	20.47
		25	0	20.49	20.28	20.93
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26840	26915	26990
10MHz	QPSK	1	0	22.47	22.05	22.4
		1	24	22.7	22.58	22.91
		1	49	22.46	22.9	22.75
		25	0	21.47	21.29	21.62
		25	12	21.48	21.54	21.75
		25	25	21.34	21.51	21.76
		50	0	21.37	21.41	21.68
	16QAM	1	0	21.53	21.58	21.26
		1	24	22.04	21.85	21.65
		1	49	21.54	22.17	21.53
		25	0	20.35	20.23	20.64
		25	12	20.49	20.45	20.84
		25	25	20.37	20.65	20.67
		50	0	20.4	20.46	20.69
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26865	26915	26965
15MHz	QPSK	1	0	22.47	22.16	22.21
		1	38	22.66	22.23	22.67
		1	74	22.78	22.48	22.75
		38	0	21.49	21.34	21.57
		38	18	21.36	21.44	21.68
		38	37	21.29	21.52	21.88
		75	0	21.35	21.41	21.62
	16QAM	1	0	21.52	21.72	21.51
		1	38	22.32	21.8	21.44
		1	74	21.76	22.2	21.64
		38	0	20.29	20.38	20.55
		38	18	20.37	20.57	20.69
		38	37	20.27	20.55	20.77
		75	0	20.37	20.39	20.62



LTE FDD B38				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37775	38000	38225
5MHz	QPSK	1	0	21.79	22.07	21.93
		1	12	22.06	22.19	22.63
		1	24	21.84	22.06	22.15
		12	0	20.88	21.21	21.12
		12	6	20.95	21.26	21.13
		12	13	20.9	21.26	21.15
		25	0	20.78	21.14	21.05
	16QAM	1	0	20.76	20.83	20.92
		1	12	20.94	20.96	21.33
		1	24	20.84	20.8	20.83
		12	0	19.94	19.98	19.93
		12	6	19.83	20.23	19.94
		12	13	19.97	20.22	19.94
		25	0	19.9	20.26	20.01
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37800	38000	38200
10MHz	QPSK	1	0	21.92	22.19	21.93
		1	24	22.31	22.13	22
		1	49	22.03	22.11	21.94
		25	0	20.83	21.2	20.96
		25	12	20.96	21.21	21.06
		25	25	20.85	21.18	21.02
		50	0	20.89	21.14	21.1
	16QAM	1	0	21.21	21.5	20.12
		1	24	21.34	21.24	20.22
		1	49	21.26	21.25	20.2
		25	0	19.99	20.13	20.01
		25	12	20.02	20.05	20
		25	25	19.9	20.1	19.96
		50	0	19.93	20.16	20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37825	38000	38175
15MHz	QPSK	1	0	22.06	22.01	22.1
		1	38	22.04	21.88	22
		1	74	22.21	22	22.07
		38	0	20.96	21.21	21.07
		38	18	20.93	21.22	21
		38	37	20.87	21.26	21.07
		75	0	20.86	21.16	21.06
	16QAM	1	0	21.35	21.09	20.39
		1	38	21.48	20.97	20.11



		1	74	21.39	20.88	20.32
		38	0	19.96	20.2	20.09
		38	18	20	20.03	20.11
		38	37	19.94	20.16	20.18
		75	0	20	20.24	20.11
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37850	38000	38150
20MHz	QPSK	1	0	21.75	22.17	21.96
		1	49	21.89	22.27	22.19
		1	99	21.76	21.87	22.09
		50	0	21	21.17	21.11
		50	25	20.99	21.26	21.03
		50	50	20.89	21.22	21.04
		100	0	20.86	21.15	21.04
	16QAM	1	0	20.41	21.03	21
		1	49	20.57	20.94	21.15
		1	99	20.63	20.66	20.83
		50	0	19.99	20.26	20.09
		50	25	19.97	20.24	20.04
		50	50	19.98	20.21	19.96
		100	0	19.9	20.2	20.09



LTE FDD B41				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39675	40620	41565
5MHz	QPSK	1	0	21.68	21.81	22.12
		1	12	21.74	22.15	22.43
		1	24	21.6	21.86	21.94
		12	0	20.67	20.98	21.22
		12	6	20.7	21.06	21.23
		12	13	20.72	20.94	21.01
		25	0	20.61	20.92	21.17
	16QAM	1	0	20.58	20.77	20.96
		1	12	20.57	20.9	21.03
		1	24	20.51	20.88	20.91
		12	0	19.71	19.94	20.21
		12	6	19.66	19.72	20.22
		12	13	19.58	19.68	20.09
		25	0	19.69	20.03	20.21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39700	40620	41540
10MHz	QPSK	1	0	22.04	22.17	22.41
		1	24	22.23	22.51	22.58
		1	49	22.2	22.14	22.36
		25	0	20.73	20.97	21.24
		25	12	20.87	21.01	21.18
		25	25	20.98	20.96	21.16
		50	0	20.71	21.02	21.16
	16QAM	1	0	21.18	21.52	21.76
		1	24	21.26	21.38	21.82
		1	49	21.43	21.31	21.53
		25	0	19.89	19.91	20.26
		25	12	20.02	19.94	20.26
		25	25	20.03	19.9	20.23
		50	0	19.84	19.95	20.33
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39725	40620	41515
15MHz	QPSK	1	0	21.36	21.84	22.41
		1	38	21.5	22.05	22.36
		1	74	21.7	22.08	22.44
		38	0	20.6	20.88	21.21
		38	18	20.89	21.04	21.26
		38	37	20.75	20.93	21.15
		75	0	20.6	20.94	21.17
	16QAM	1	0	20.65	20.12	21.68
		1	38	20.48	20.15	21.63



		1	74	20.75	20.07	21.67
		38	0	19.57	19.99	20.04
		38	18	19.67	20.04	20.25
		38	37	19.74	20.05	20.03
		75	0	19.77	19.99	20.23
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39750	40620	41490
20MHz	QPSK	1	0	21.55	21.89	22.26
		1	49	21.92	22.08	22.29
		1	99	21.76	21.97	22.13
		50	0	20.63	20.93	21.24
		50	25	20.93	21.03	21.22
		50	50	20.95	20.96	21.13
		100	0	20.7	21	21.27
	16QAM	1	0	20.5	20.92	20.38
		1	49	20.55	20.85	20.37
		1	99	20.38	20.91	20.19
		50	0	19.71	19.92	20.11
		50	25	19.91	20.01	20.26
		50	50	20.02	19.95	20.09
		100	0	19.73	19.95	20.13

Note: For the maximum EIRP&ERP test data, please refer to clause 5.3.

7.2. PEAK TO AVERAGE RADIO

LIMITS

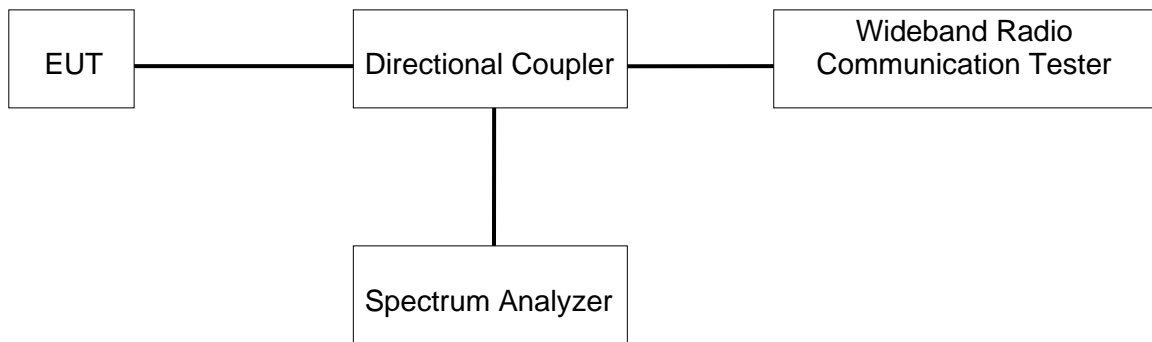
In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

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	22.8°C	Relative Humidity	58.3%
Atmosphere Pressure	101kPa	Test Voltage	/

RESULTS

Refer to Appendix B.

7.3. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049, RSS-130, RSS-132, RSS-133, RSS-139, RSS-195, RSS-199

LIMITS

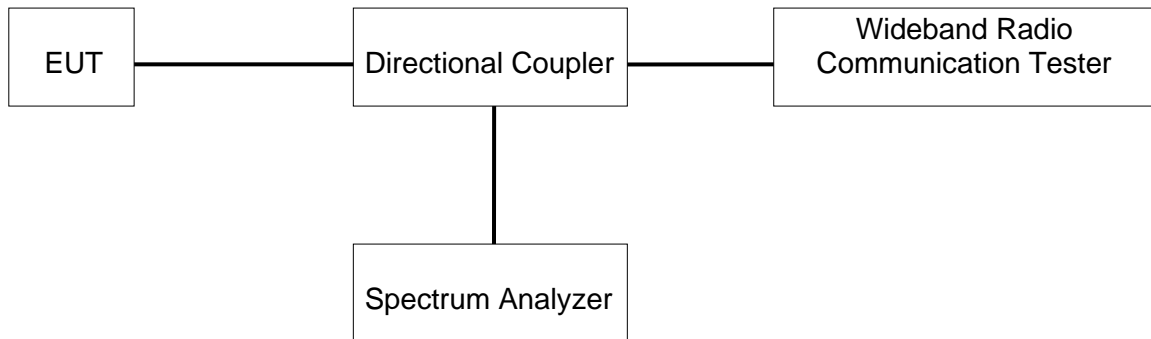
For reporting purposes only.

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	22.9°C	Relative Humidity	68.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 48.1 V

RESULTS

Refer to Appendix B.

7.4. BAND EDGE EMISSIONS

RULE PART(S)

FCC §2.1051, §22.917, §24.238, §27.53, §90,
RSS-130, RSS-132, RSS-133, RSS-139, RSS-195, RSS-199

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.

TEST PROCEDURE

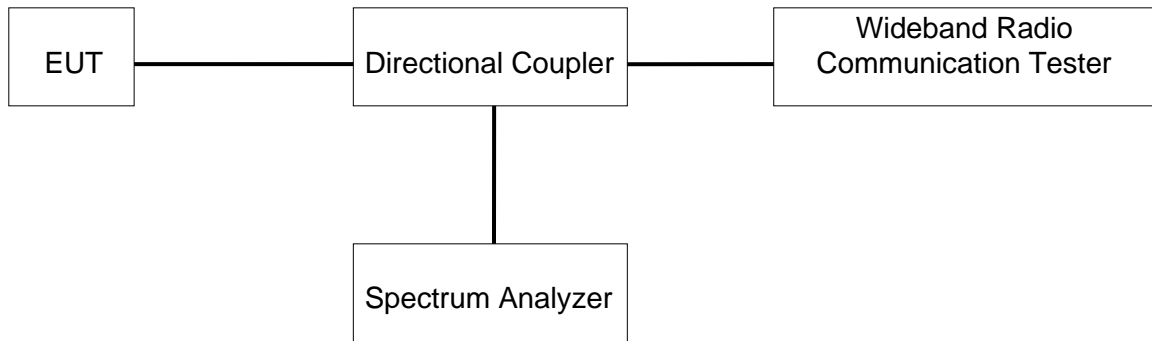
Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01

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	22.9°C	Relative Humidity	68.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 48.1 V

RESULTS

Refer to Appendix C.

7.5. SPURIOUS EMISSION AT ANTENNA TERMINAL

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53, §90,
RSS-130, RSS-132, RSS-133, RSS-139, RSS-195, RSS-199

LIMITS

FCC: §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.

FCC: §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.

TEST PROCEDURE

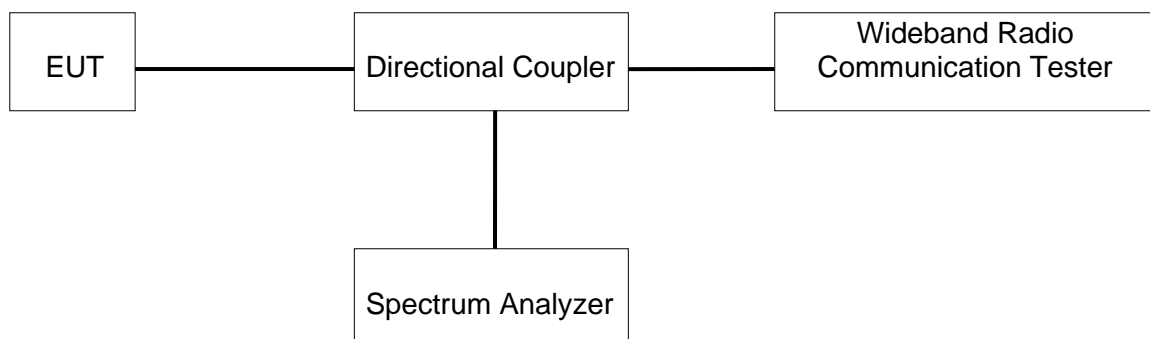
Per KDB 971168 D01 Power Meas License Digital Systems v03r01

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	22.9°C	Relative Humidity	68.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 48.1 V

RESULTS

Refer to Appendix D.

7.6. FREQUENCY STABILITY

Rule Part:

FCC: §2.1055, §22.355, §24.235, §27.54, §90,
RSS-130, RSS-132, RSS-133, RSS-139, RSS-195, RSS-199

LIMITS

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

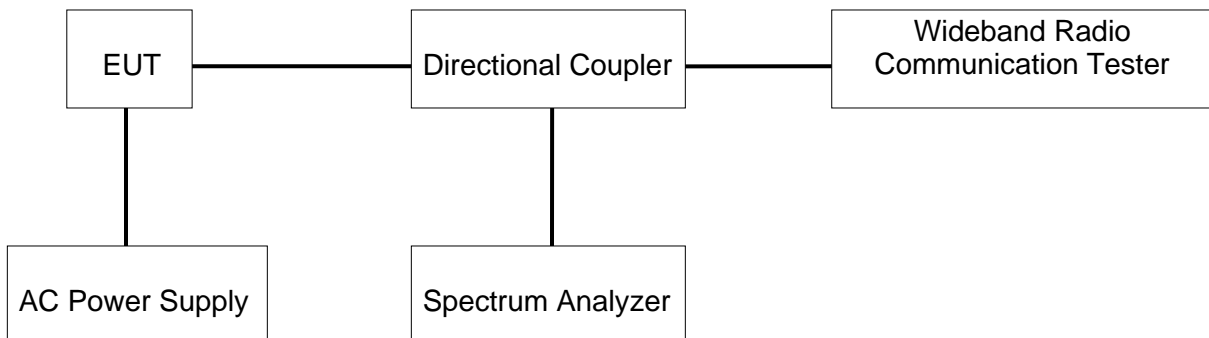
§24.235 and §27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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): 24.7 °C	T _L (Low Temperature): -30 °C T _H (High Temperature): 50 °C
Supply Voltage	V _N (Normal Voltage): DC 48.1 V	V _L (Low Voltage): DC 47.6 V V _H (High Voltage): DC 48.6 V

TEST SETUP



RESULTS

Refer to Appendix E.

8. RADIATED SPURIOUS EMISSIONS

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53, §90,
RSS-130, RSS-132, RSS-133, RSS-139, RSS-195, RSS-199

LIMIT

Part §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.

RSS-132 section 5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

(i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

(ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

RSS-133 section 6.5.1

Equipment shall comply with the limits in (i) and (ii) below.

(i) In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

(ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

RSS-139 section 6.6

(i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block,² which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

(ii) After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

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

According to the C 63.26-2015 section 5.5.2.2.3

Below 1GHz test procedure as below:

For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80 cm above the reference ground plane. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e., field strength or received power). When orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25 cm.

Above 1GHz test procedure as below:

For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table or support at a nominal height of 1.5 m above the ground plane. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The height scan of the measurement antenna shall be varied from 1 m to 4 m in a search for the relative positioning that produces the maximum radiated signal level (i.e., field strength or received power). When using the direct field strength method and the EUT is manipulated through three different orientations, then the scan height range of the measurement antenna is limited to 2.5 m, or 0.5 m above the top of the EUT, whichever is higher.

Radiated Power Measurement Calculation According to ANSI C63.26-2015

a) E (dB μ V/m) = Measured amplitude level (dB μ V) + Cable Loss (dB) + Antenna Factor (dB/m).

b) E (dB μ V/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m).

c) E (dB μ V/m) = EIRP (dBm) - 20log(D) + 104.8; where D is the measurement distance (in the far field region) in m.

d) EIRP (dBm) = E (dB μ V/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.

So, from d)

The measuring distance is usually at 3m, then $20 \cdot \log(3) = 9.5424$

Then, EIRP (dBm) = E (dB μ V/m) + 9.5424 - 104.8 = E (dB μ V/m) - 95.2576

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

EIRP[dBm] = E [dB μ V/m] - 95.2

E [dB μ V/m] = 95.2 + EIRP[dBm]

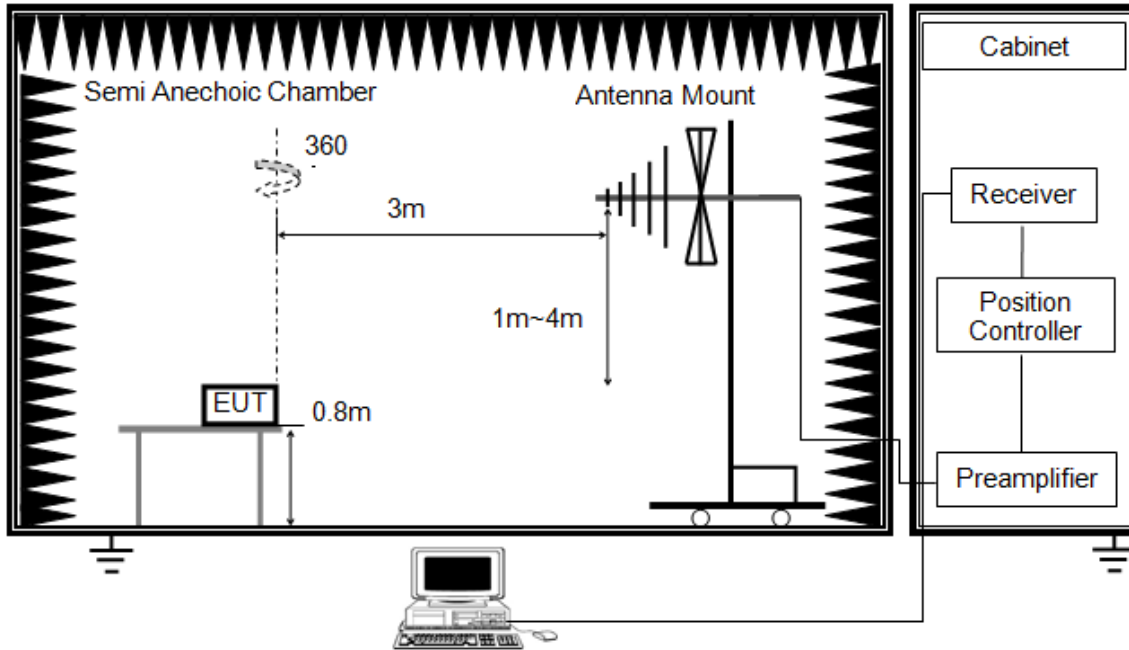
E [dB μ V/m] = 82.20

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.

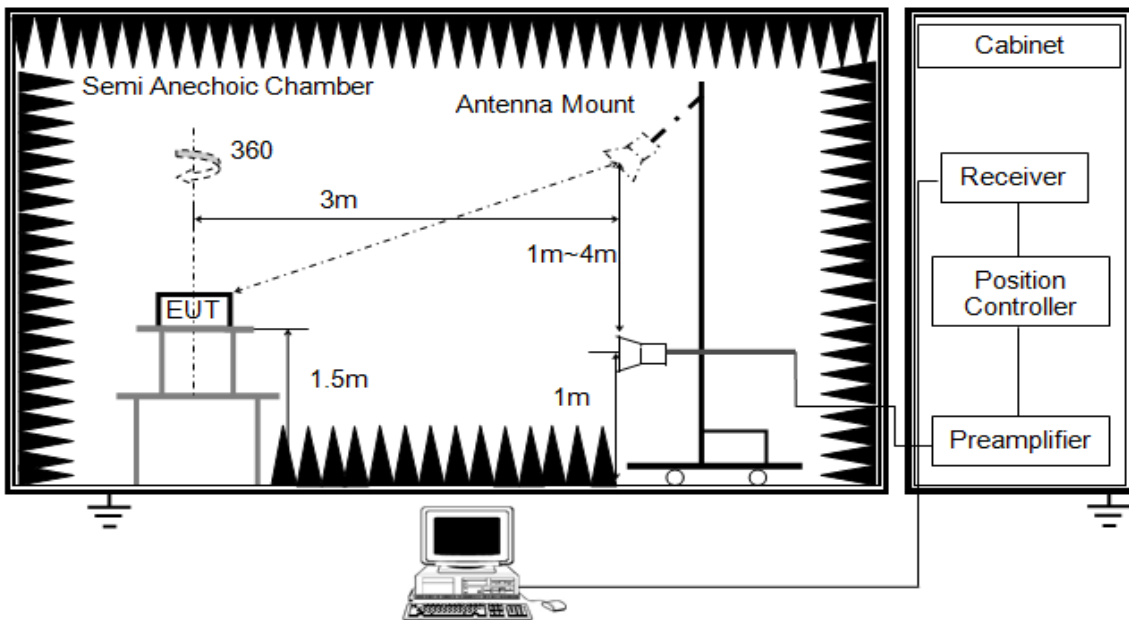
NOTE 2: Please refer to section 5 for bandwidth and RB setting about LTE bands.

TEST SETUP

Test Setup for Below 1 GHz



Test Setup for Above 1 GHz



TEST ENVIRONMENT

Temperature	22.9°C	Relative Humidity	68.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 48.1 V

**RESULTS****LTE Band 2**

QPSK-20 MHz-Low Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4755.000	41.08	-1.33	39.75	82.25	-42.45	peak
5550.000	43.27	0.56	43.83	82.25	-38.37	peak
7395.000	48.53	5.79	54.32	82.25	-27.88	peak
11820.000	35.60	17.21	52.81	82.25	-29.39	peak
13920.000	33.66	20.58	54.24	82.25	-27.96	peak
17670.000	31.78	21.83	53.61	82.25	-28.59	peak

QPSK-20 MHz-Low Channel-Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3705.000	56.09	-4.78	51.31	82.25	-30.89	peak
7395.000	52.32	5.79	58.11	82.25	-24.09	peak
9255.000	45.10	8.77	53.87	82.25	-28.33	peak
11100.000	44.47	13.65	58.12	82.25	-24.08	peak
13950.000	33.56	20.61	54.17	82.25	-28.03	peak
17955.000	31.41	23.57	54.98	82.25	-27.22	peak

QPSK-20 MHz-Mid Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3165.000	63.07	-6.70	56.37	82.25	-25.83	peak
5610.000	51.82	0.69	52.51	82.25	-29.69	peak
7485.000	52.85	5.67	58.52	82.25	-23.68	peak
9360.000	41.03	9.43	50.46	82.25	-31.74	peak
11775.000	35.67	17.06	52.73	82.25	-29.47	peak
13920.000	33.51	20.58	54.09	82.25	-28.11	peak

QPSK-20 MHz- Mid Channel-Vertical

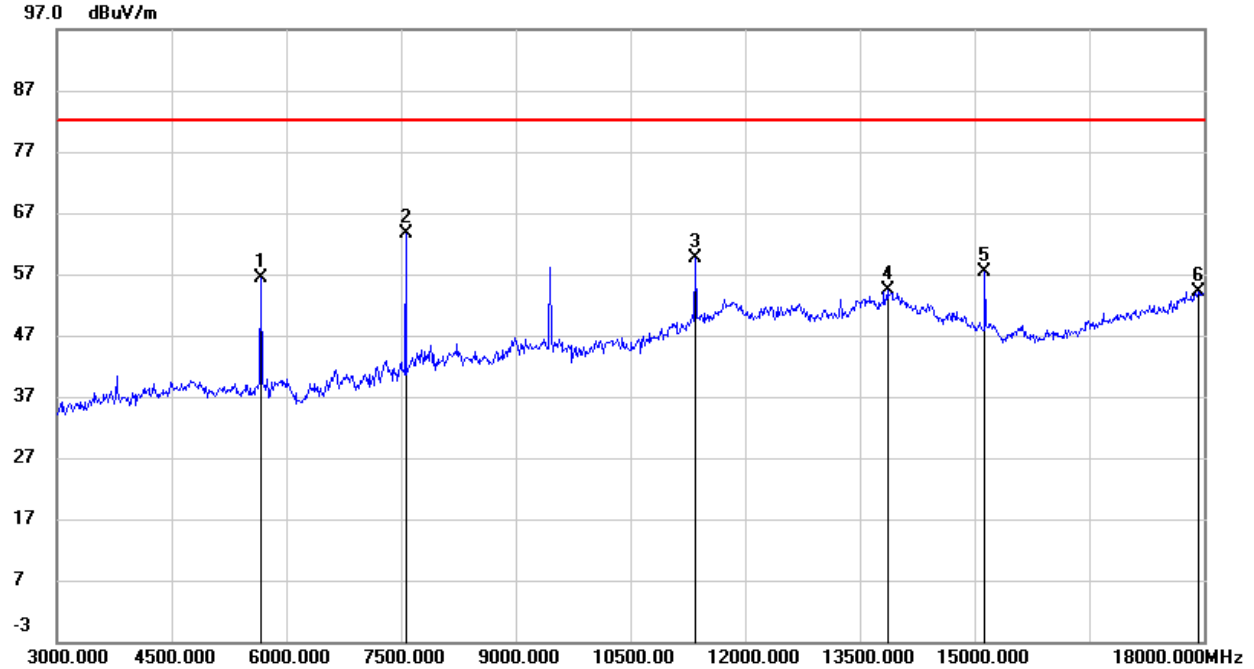
Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5610.000	52.52	0.69	53.21	82.25	-28.99	peak
7485.000	56.04	5.67	61.71	82.25	-20.49	peak
9360.000	47.60	9.43	57.03	82.25	-25.17	peak
11220.000	45.36	14.24	59.60	82.25	-22.60	peak
14970.000	37.78	16.67	54.45	82.25	-27.75	peak
17850.000	30.91	23.32	54.23	82.25	-27.97	peak

QPSK-20 MHz-High Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5670.000	52.03	0.68	52.71	82.25	-29.49	peak
7560.000	55.57	5.53	61.10	82.25	-21.10	peak
9450.000	41.72	9.81	51.53	82.25	-30.67	peak
11835.000	35.76	17.20	52.96	82.25	-29.24	peak
13980.000	33.70	20.63	54.33	82.25	-27.87	peak
17835.000	30.53	23.28	53.81	82.25	-28.39	peak



QPSK-20 MHz- High Channel-Vertical(worst case)



Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5670.000	55.72	0.68	56.40	82.25	-25.80	peak
7560.000	58.06	5.53	63.59	82.25	-18.61	peak
11355.000	44.54	15.01	59.55	82.25	-22.65	peak
13860.000	33.95	20.55	54.50	82.25	-27.70	peak
15135.000	41.55	15.87	57.42	82.25	-24.78	peak
17925.000	30.54	23.50	54.04	82.25	-28.16	peak

Note: Limit= -13dBm+95.2=82.25 dBuV/m

**LTE Band 4**

QPSK-20 MHz-Low Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5130.000	50.62	-0.27	50.35	82.25	-31.85	peak
6840.000	46.32	3.87	50.19	82.25	-32.01	peak
8550.000	43.15	6.77	49.92	82.25	-32.28	peak
11820.000	35.59	17.21	52.80	82.25	-29.40	peak
13875.000	33.45	20.55	54.00	82.25	-28.20	peak
17895.000	31.19	23.42	54.61	82.25	-27.59	peak

QPSK-20 MHz-Low Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5130.000	52.19	-0.27	51.92	82.25	-30.28	peak
6840.000	53.23	3.87	57.10	82.25	-25.10	peak
8550.000	46.92	6.77	53.69	82.25	-28.51	peak
11850.000	35.43	17.19	52.62	82.25	-29.58	peak
13920.000	33.92	20.58	54.50	82.25	-27.70	peak
15405.000	38.19	15.43	53.62	82.25	-28.58	peak

QPSK-20 MHz-Mid Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5160.000	53.30	-0.06	53.24	82.25	-28.96	peak
6885.000	50.75	3.99	54.74	82.25	-27.46	peak
11865.000	35.79	17.18	52.97	82.25	-29.23	peak
13920.000	33.56	20.58	54.14	82.25	-28.06	peak
15510.000	36.29	15.33	51.62	82.25	-30.58	peak
17895.000	31.00	23.42	54.42	82.25	-27.78	peak

QPSK-20 MHz-High Channel- Horizontal

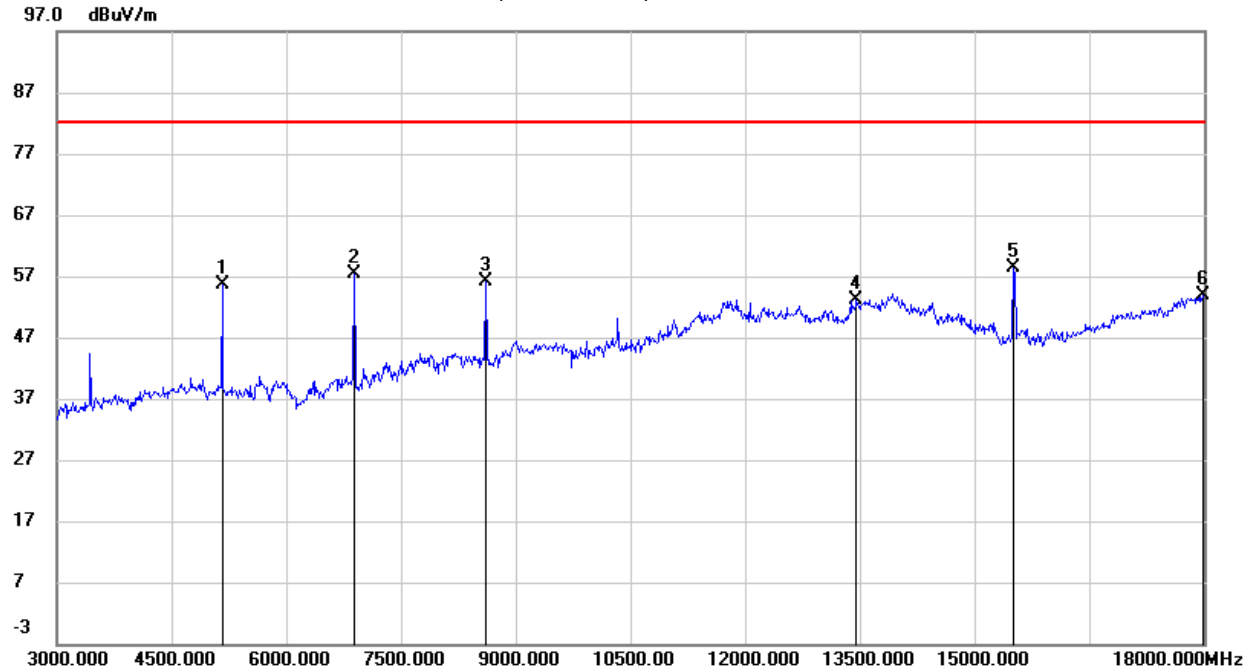
Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3555.000	57.90	-5.52	52.38	82.25	-29.82	peak
5205.000	47.06	0.20	47.26	82.25	-34.94	peak
6945.000	47.46	4.17	51.63	82.25	-30.57	peak
11730.000	35.77	16.77	52.54	82.25	-29.66	peak
13860.000	33.94	20.55	54.49	82.25	-27.71	peak
17835.000	31.20	23.28	54.48	82.25	-27.72	peak

QPSK-20 MHz-High Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5205.000	49.82	0.20	50.02	82.25	-32.18	peak
6945.000	50.38	4.17	54.55	82.25	-27.65	peak
8685.000	46.29	6.96	53.25	82.25	-28.95	peak
13920.000	33.85	20.58	54.43	82.25	-27.77	peak
15630.000	39.45	15.40	54.85	82.25	-27.35	peak
17970.000	30.56	23.60	54.16	82.25	-28.04	peak



QPSK-20 MHz-Mid Channel- Vertical(worst case)



Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5160.000	55.80	-0.06	55.74	82.25	-26.46	peak
6885.000	53.43	3.99	57.42	82.25	-24.78	peak
8610.000	49.35	6.87	56.22	82.25	-25.98	peak
13455.000	33.72	19.41	53.13	82.25	-29.07	peak
15510.000	42.97	15.33	58.30	82.25	-23.90	peak
17985.000	30.23	23.64	53.87	82.25	-28.33	peak

Note: Limit= -13dBm+95.2=82.25 dBuV/m

**LTE Band 5**

QPSK-10 MHz-Low Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1648.000	59.08	-11.54	47.54	82.25	-34.66	peak
2471.500	50.25	-8.78	41.47	82.25	-40.73	peak
3295.000	52.29	-6.46	45.83	82.25	-36.37	peak
4123.000	49.34	-3.52	45.82	82.25	-36.38	peak
8245.000	38.84	7.10	45.94	82.25	-36.26	peak
9073.000	43.11	9.13	52.24	82.25	-29.96	peak

QPSK-10 MHz-Mid Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1657.000	53.82	-11.48	42.34	82.25	-39.86	peak
2224.000	48.97	-9.62	39.35	82.25	-42.85	peak
3322.000	49.50	-6.41	43.09	82.25	-39.11	peak
4159.000	45.86	-3.20	42.66	82.25	-39.54	peak
8533.000	38.19	6.74	44.93	82.25	-37.27	peak
9091.000	37.55	9.03	46.58	82.25	-35.62	peak

QPSK-10 MHz-Mid Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1657.000	53.03	-11.48	41.55	82.25	-40.65	peak
2494.000	48.13	-8.73	39.40	82.25	-42.80	peak
3331.000	56.16	-6.40	49.76	82.25	-32.44	peak
4159.000	49.50	-3.20	46.30	82.25	-35.90	peak
7489.000	39.60	5.67	45.27	82.25	-36.93	peak
9154.000	43.56	8.67	52.23	82.25	-29.97	peak

QPSK-10 MHz-High Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1675.000	57.27	-11.37	45.90	82.25	-36.30	peak
2512.000	49.25	-8.70	40.55	82.25	-41.65	peak
3358.000	50.89	-6.36	44.53	82.25	-37.67	peak
4195.000	48.11	-2.86	45.25	82.25	-36.95	peak
5041.000	43.04	-0.86	42.18	82.25	-40.02	peak
9235.000	43.07	8.65	51.72	82.25	-30.48	peak

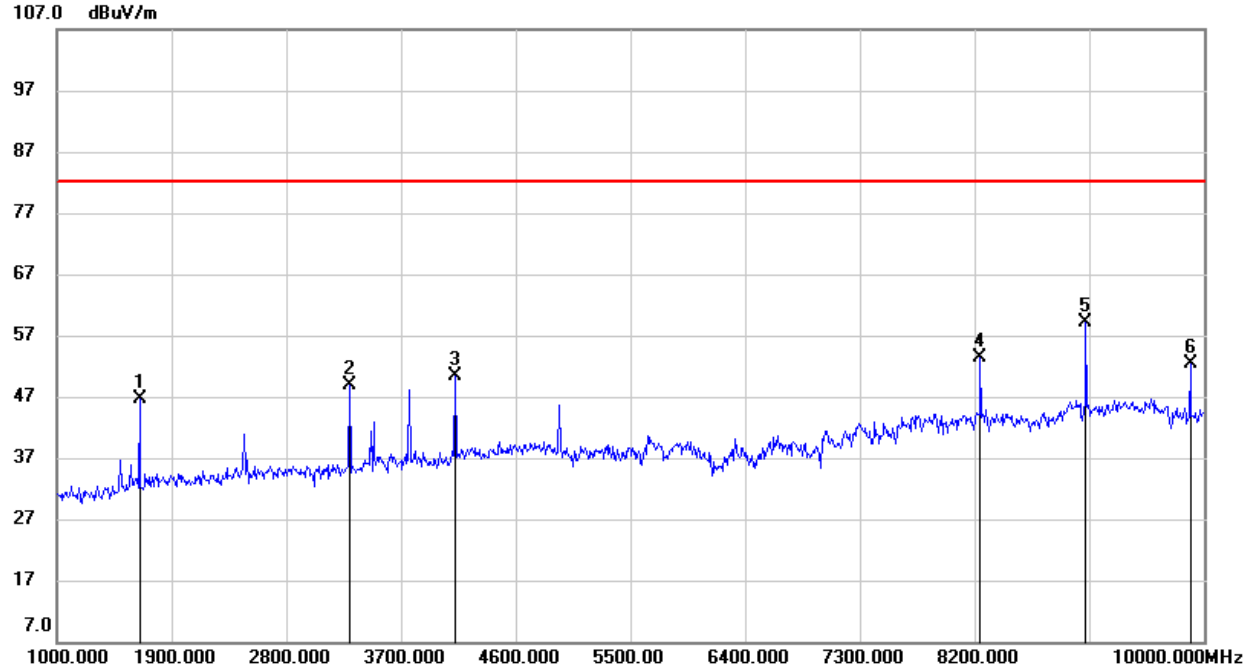
QPSK-10 MHz-High Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1675.000	54.68	-11.37	43.31	82.25	-38.89	peak
3358.000	53.76	-6.36	47.40	82.25	-34.80	peak
4195.000	50.95	-2.86	48.09	82.25	-34.11	peak
5041.000	45.42	-0.86	44.56	82.25	-37.64	peak
8398.000	45.17	6.65	51.82	82.25	-30.38	peak
9235.000	48.41	8.65	57.06	82.25	-25.14	peak

Note: Limit= -13dBm+95.2=82.25 dBuV/m



QPSK-20 MHz-Low Channel- Vertical(worst case)



Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1648.000	58.18	-11.54	46.64	82.25	-35.56	peak
3299.500	55.25	-6.45	48.80	82.25	-33.40	peak
4123.000	53.95	-3.52	50.43	82.25	-31.77	peak
8249.500	46.22	7.08	53.30	82.25	-28.90	peak
9073.000	49.94	9.13	59.07	82.25	-23.13	peak
9896.500	42.06	10.29	52.35	82.25	-29.85	peak

**LTE Band 7**

QPSK-20 MHz-Low Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4995.000	46.97	-1.12	45.85	70.25	-36.35	peak
7500.000	49.83	5.65	55.48	70.25	-26.72	peak
10005.000	38.25	10.61	48.86	70.25	-33.34	peak
11850.000	35.63	17.19	52.82	70.25	-29.38	peak
13875.000	33.49	20.55	54.04	70.25	-28.16	peak
17880.000	30.80	23.38	54.18	70.25	-28.02	peak

QPSK-20 MHz-Low Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4995.000	49.47	-1.12	48.35	70.25	-33.85	peak
7500.000	52.67	5.65	58.32	70.25	-23.88	peak
10005.000	47.94	10.61	58.55	70.25	-23.65	peak
12510.000	38.96	16.83	55.79	70.25	-26.41	peak
13860.000	33.38	20.55	53.93	70.25	-28.27	peak
17910.000	30.84	23.46	54.30	70.25	-27.90	peak

QPSK-20 MHz-Mid Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5040.000	42.49	-0.86	41.63	70.25	-40.57	peak
7575.000	45.97	5.49	51.46	70.25	-30.74	peak
10110.000	40.33	10.77	51.10	70.25	-31.10	peak
11865.000	36.40	17.18	53.58	70.25	-28.62	peak
13920.000	33.46	20.58	54.04	70.25	-28.16	peak
17985.000	30.92	23.64	54.56	70.25	-27.64	peak

QPSK-20 MHz-High Channel- Horizontal

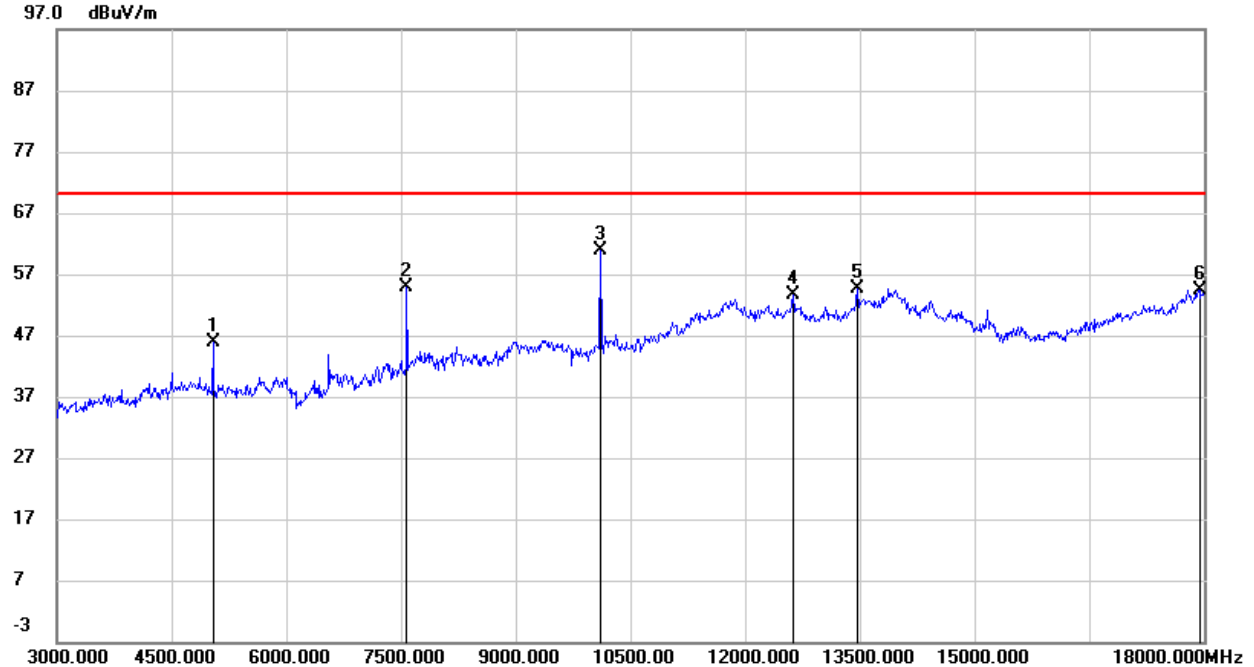
Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5670.000	39.84	0.68	40.52	70.25	-41.68	peak
6570.000	40.21	3.51	43.72	70.25	-38.48	peak
8955.000	37.24	8.99	46.23	70.25	-35.97	peak
11835.000	35.62	17.20	52.82	70.25	-29.38	peak
13920.000	34.10	20.58	54.68	70.25	-27.52	peak
17940.000	31.10	23.54	54.64	70.25	-27.56	peak

QPSK-20 MHz-High Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
6570.000	39.51	3.51	43.02	70.25	-39.18	peak
7665.000	43.15	5.65	48.80	70.25	-33.40	peak
10245.000	39.20	11.03	50.23	70.25	-31.97	peak
11745.000	35.84	16.88	52.72	70.25	-29.48	peak
13860.000	33.63	20.55	54.18	70.25	-28.02	peak
18000.000	30.23	23.68	53.91	70.25	-28.29	peak



QPSK-20 MHz-Mid Channel- Vertical(worst case)



Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5040.000	46.72	-0.86	45.86	70.25	-36.34	peak
7575.000	49.39	5.49	54.88	70.25	-27.32	peak
10110.000	50.03	10.77	60.80	70.25	-21.40	peak
12630.000	36.65	16.88	53.53	70.25	-28.67	peak
13470.000	35.22	19.47	54.69	70.25	-27.51	peak
17940.000	30.77	23.54	54.31	70.25	-27.89	peak

Note: Limit= -25dBm+95.2=70.25 dBuV/m

**LTE Band 12**

QPSK-10 MHz-Low Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1396.000	52.38	-13.07	39.31	82.25	-42.89	peak
2098.000	47.54	-10.35	37.19	82.25	-45.01	peak
4861.000	40.83	-1.13	39.70	82.25	-42.50	peak
5671.000	39.16	0.68	39.84	82.25	-42.36	peak
8236.000	37.82	7.13	44.95	82.25	-37.25	peak
9388.000	36.78	9.61	46.39	82.25	-35.81	peak

QPSK-10 MHz-Mid Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1405.000	53.22	-13.02	40.20	82.25	-42.00	peak
2809.000	48.70	-7.64	41.06	82.25	-41.14	peak
4213.000	45.15	-2.83	42.32	82.25	-39.88	peak
5869.000	39.73	0.91	40.64	82.25	-41.56	peak
7813.000	38.83	6.04	44.87	82.25	-37.33	peak
9379.000	36.63	9.55	46.18	82.25	-36.02	peak

QPSK-10 MHz-Mid Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1405.000	54.37	-13.02	41.35	82.25	-40.85	peak
3511.000	47.33	-5.75	41.58	82.25	-40.62	peak
4213.000	46.86	-2.83	44.03	82.25	-38.17	peak
6652.000	37.40	3.70	41.10	82.25	-41.10	peak
7903.000	38.35	5.70	44.05	82.25	-38.15	peak
9577.000	35.89	10.09	45.98	82.25	-36.22	peak

QPSK-10 MHz-High Channel- Horizontal

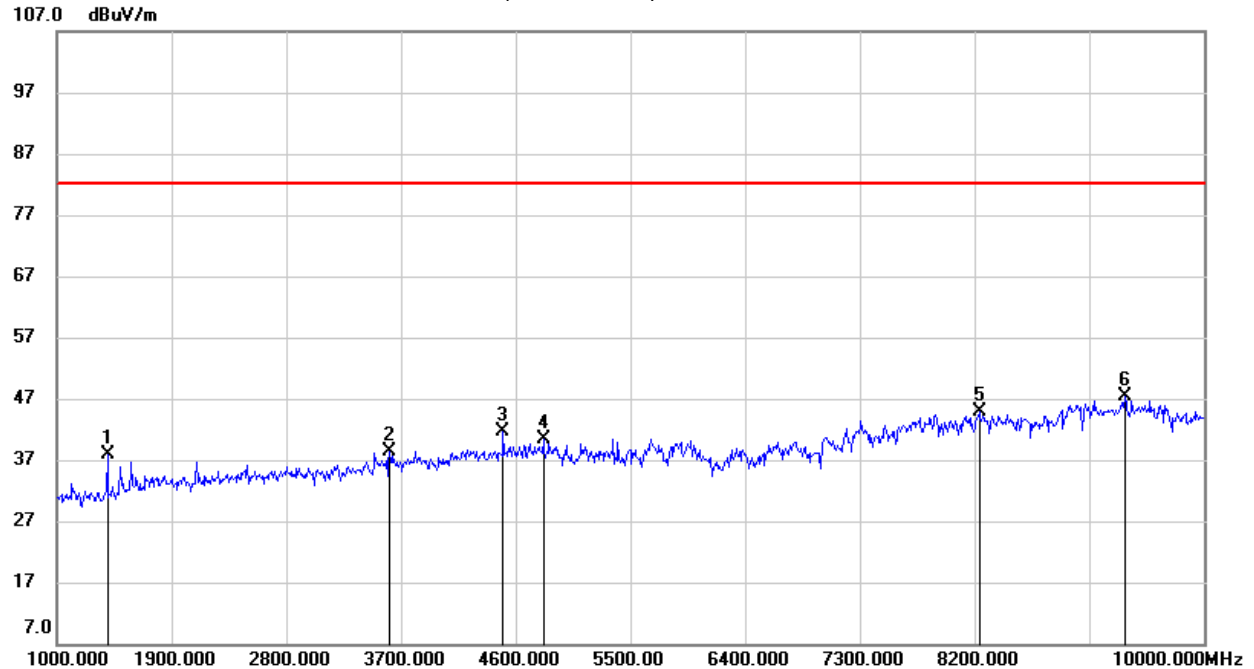
Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1405.000	53.83	-13.02	40.81	82.25	-41.39	peak
2827.000	50.16	-7.59	42.57	82.25	-39.63	peak
4240.000	42.67	-2.88	39.79	82.25	-42.41	peak
5653.000	39.11	0.68	39.79	82.25	-42.41	peak
7768.000	38.53	5.97	44.50	82.25	-37.70	peak
8947.000	36.57	8.89	45.46	82.25	-36.74	peak

QPSK-10 MHz-High Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1405.000	53.22	-13.02	40.20	82.25	-42.00	peak
3529.000	47.63	-5.65	41.98	82.25	-40.22	peak
4240.000	45.67	-2.88	42.79	82.25	-39.41	peak
6013.000	38.80	1.37	40.17	82.25	-42.03	peak
8227.000	37.14	7.15	44.29	82.25	-37.91	peak
8992.000	37.17	9.43	46.60	82.25	-35.60	peak



QPSK-10 MHz-Low Channel- Vertical(worst case)



Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1396.000	50.89	-13.07	37.82	82.25	-44.38	peak
3610.000	43.69	-5.23	38.46	82.25	-43.74	peak
4501.000	44.15	-2.52	41.63	82.25	-40.57	peak
4816.000	41.62	-1.14	40.48	82.25	-41.72	peak
8236.000	37.63	7.13	44.76	82.25	-37.44	peak
9379.000	37.77	9.55	47.32	82.25	-34.88	peak

Note: Limit= -13dBm+95.2=82.25 dBuV/m



LTE Band 13

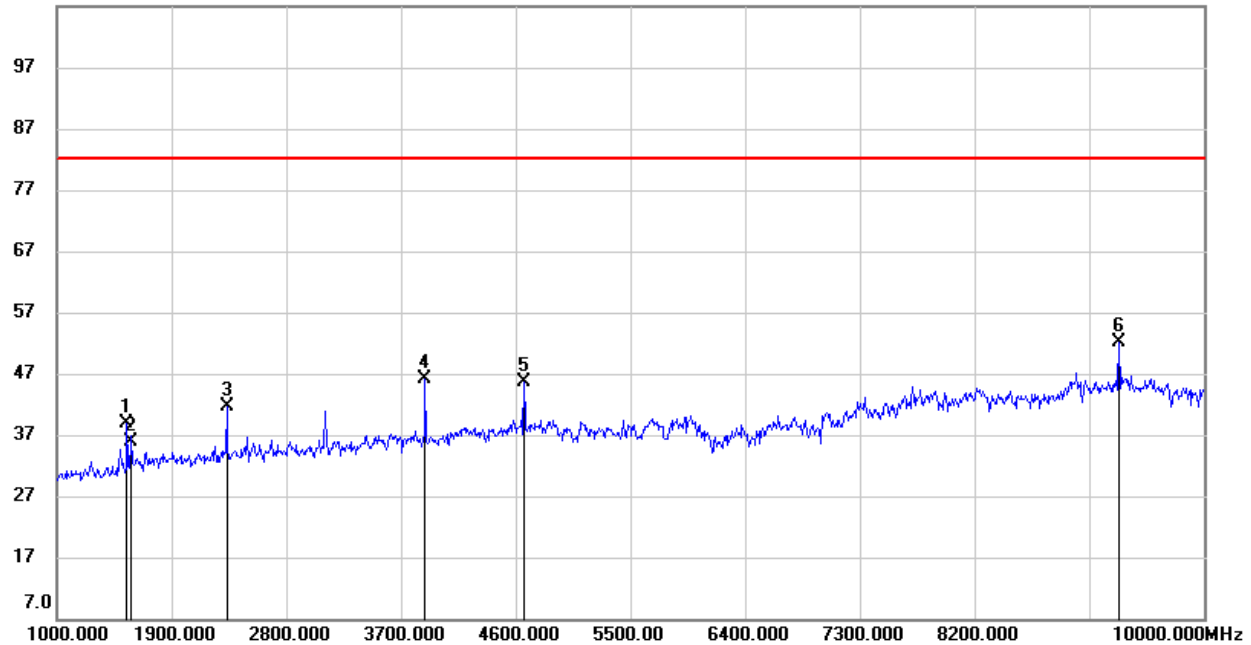
In the 1559-1610 MHz frequency, the limit is -80dBW EIRP for narrowband and all modulation are tested and met requirements.

QPSK-10 MHz- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1549.000	49.83	-12.13	37.70	82.25	-44.50	peak
1570.000	44.96	-12.01	32.95	55.25	-49.25	peak
1828.000	60.53	-10.63	49.90	82.25	-32.30	peak
2332.000	52.47	-9.21	43.26	82.25	-38.94	peak
3889.000	48.34	-4.48	43.86	82.25	-38.34	peak
9334.000	36.84	9.26	46.10	82.25	-36.10	peak

QPSK-10 MHz- Vertical(worst case)

107.0 dBuV/m



Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1549.000	50.93	-12.13	38.80	82.25	-43.40	peak
1570.000	47.81	-12.01	35.80	55.25	-46.40	peak
2332.000	50.76	-9.21	41.55	82.25	-40.65	peak
3889.000	50.70	-4.48	46.22	82.25	-35.98	peak
4663.000	47.39	-1.73	45.66	82.25	-36.54	peak
9334.000	42.89	9.26	52.15	82.25	-30.05	peak

Note: Limit= -13dBm+95.2=82.25 dBuV/m

**LTE Band 25**

QPSK-20 MHz-Low Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5550.000	47.40	0.56	47.96	82.25	-34.24	peak
7395.000	49.59	5.79	55.38	82.25	-26.82	peak
9255.000	42.03	8.77	50.80	82.25	-31.40	peak
11865.000	35.98	17.18	53.16	82.25	-29.04	peak
13920.000	33.64	20.58	54.22	82.25	-27.98	peak
17880.000	31.29	23.38	54.67	82.25	-27.53	peak

QPSK-20 MHz-Low Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5550.000	52.48	0.56	53.04	82.25	-29.16	peak
7395.000	54.63	5.79	60.42	82.25	-21.78	peak
9255.000	46.50	8.77	55.27	82.25	-26.93	peak
11100.000	45.78	13.65	59.43	82.25	-22.77	peak
14820.000	38.04	17.20	55.24	82.25	-26.96	peak
17955.000	30.30	23.57	53.87	82.25	-28.33	peak

QPSK-20 MHz-Mid Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5617.500	52.83	0.69	53.52	82.25	-28.68	peak
7492.500	52.60	5.66	58.26	82.25	-23.94	peak
9367.500	42.92	9.48	52.40	82.25	-29.80	peak
11812.500	34.76	17.21	51.97	82.25	-30.23	peak
13912.500	32.92	20.58	53.50	82.25	-28.70	peak
17730.000	30.25	22.46	52.71	82.25	-29.49	peak

QPSK-20 MHz-High Channel- Horizontal

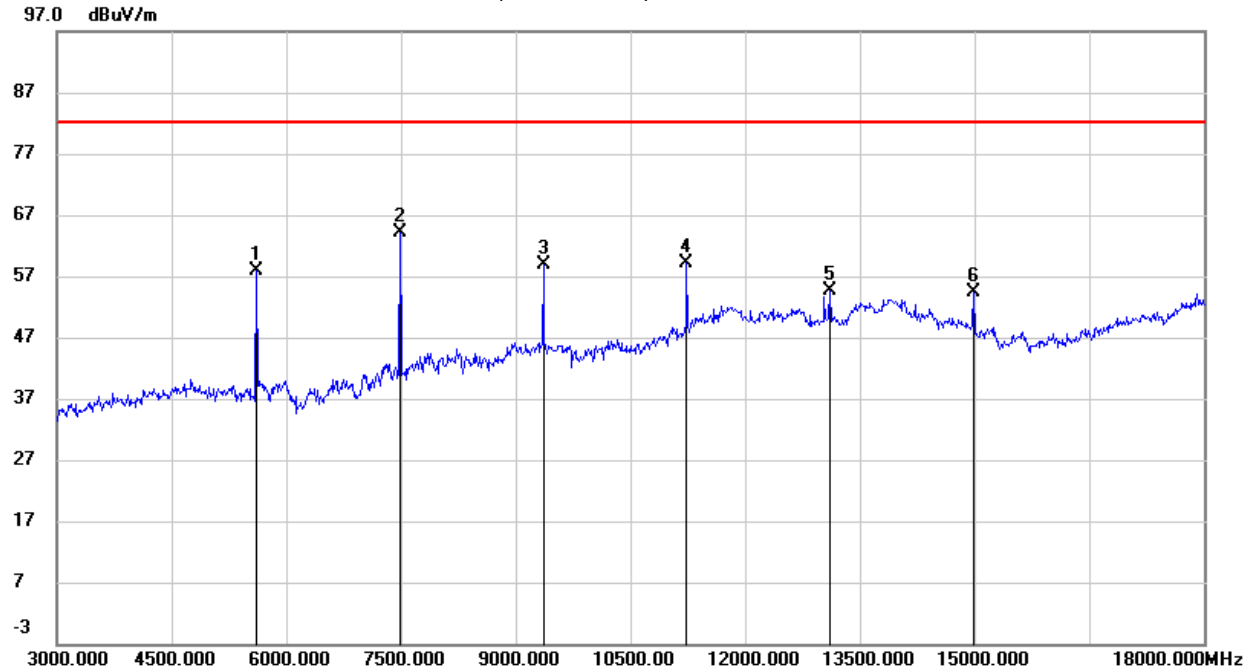
Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4725.000	41.24	-1.46	39.78	82.25	-42.42	peak
8332.500	37.88	6.85	44.73	82.25	-37.47	peak
9352.500	38.15	9.37	47.52	82.25	-34.68	peak
11820.000	35.51	17.21	52.72	82.25	-29.48	peak
13612.500	34.10	19.77	53.87	82.25	-28.33	peak
17715.000	31.59	22.31	53.90	82.25	-28.30	peak

QPSK-20 MHz-High Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
7770.000	38.27	5.98	44.25	82.25	-37.95	peak
9000.000	37.41	9.53	46.94	82.25	-35.26	peak
11872.500	34.92	17.18	52.10	82.25	-30.10	peak
12697.500	35.18	17.05	52.23	82.25	-29.97	peak
13860.000	33.53	20.55	54.08	82.25	-28.12	peak
17887.500	29.63	23.41	53.04	82.25	-29.16	peak



QPSK-20 MHz-Mid Channel- Vertical(worst case)



Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5617.500	57.13	0.69	57.82	82.25	-24.38	peak
7492.500	58.42	5.66	64.08	82.25	-18.12	peak
9367.500	49.32	9.48	58.80	82.25	-23.40	peak
11242.500	44.85	14.37	59.22	82.25	-22.98	peak
13117.500	37.09	17.64	54.73	82.25	-27.47	peak
14992.500	37.78	16.60	54.38	82.25	-27.82	peak

Note: Limit= -13dBm+95.2=82.25 dBuV/m

**LTE Band 26**

QPSK-10 MHz-Mid Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1621.000	55.19	-11.72	43.47	82.25	-38.73	peak
2440.000	48.06	-8.86	39.20	82.25	-43.00	peak
3259.000	47.73	-6.52	41.21	82.25	-40.99	peak
4069.000	47.11	-4.03	43.08	82.25	-39.12	peak
7759.000	38.40	5.95	44.35	82.25	-37.85	peak
9343.000	37.11	9.32	46.43	82.25	-35.77	peak

QPSK-10 MHz-Mid Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1621.000	55.71	-11.72	43.99	82.25	-38.21	peak
3259.000	50.75	-6.52	44.23	82.25	-37.97	peak
4069.000	51.85	-4.03	47.82	82.25	-34.38	peak
4888.000	46.13	-1.14	44.99	82.25	-37.21	peak
7336.000	39.38	5.58	44.96	82.25	-37.24	peak
8965.000	43.12	9.11	52.23	82.25	-29.97	peak

QPSK-15 MHz-Low Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1639.000	56.03	-11.61	44.42	82.25	-37.78	peak
3277.000	48.93	-6.49	42.44	82.25	-39.76	peak
4096.000	46.79	-3.78	43.01	82.25	-39.19	peak
6013.000	38.78	1.37	40.15	82.25	-42.05	peak
8362.000	38.14	6.76	44.90	82.25	-37.30	peak
9307.000	37.30	9.10	46.40	82.25	-35.80	peak

QPSK-15 MHz-Low Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1639.000	54.78	-11.61	43.17	82.25	-39.03	peak
3277.000	49.86	-6.49	43.37	82.25	-38.83	peak
4096.000	50.35	-3.78	46.57	82.25	-35.63	peak
4924.000	44.82	-1.13	43.69	82.25	-38.51	peak
7759.000	38.81	5.95	44.76	82.25	-37.44	peak
9028.000	40.84	9.37	50.21	82.25	-31.99	peak

QPSK-15 MHz-Mid Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1657.000	54.02	-11.48	42.54	82.25	-39.66	peak
2485.000	50.57	-8.75	41.82	82.25	-40.38	peak
3313.000	49.78	-6.43	43.35	82.25	-38.85	peak
4150.000	47.82	-3.28	44.54	82.25	-37.66	peak
7471.000	41.93	5.70	47.63	82.25	-34.57	peak
9136.000	42.05	8.78	50.83	82.25	-31.37	peak

QPSK-15 MHz-High Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1666.000	50.96	-11.43	39.53	82.25	-42.67	peak
3340.000	44.51	-6.39	38.12	82.25	-44.08	peak
4177.000	42.89	-3.04	39.85	82.25	-42.35	peak
4492.000	47.24	-2.58	44.66	82.25	-37.54	peak
7714.000	39.39	5.81	45.20	82.25	-37.00	peak
9388.000	36.84	9.61	46.45	82.25	-35.75	peak

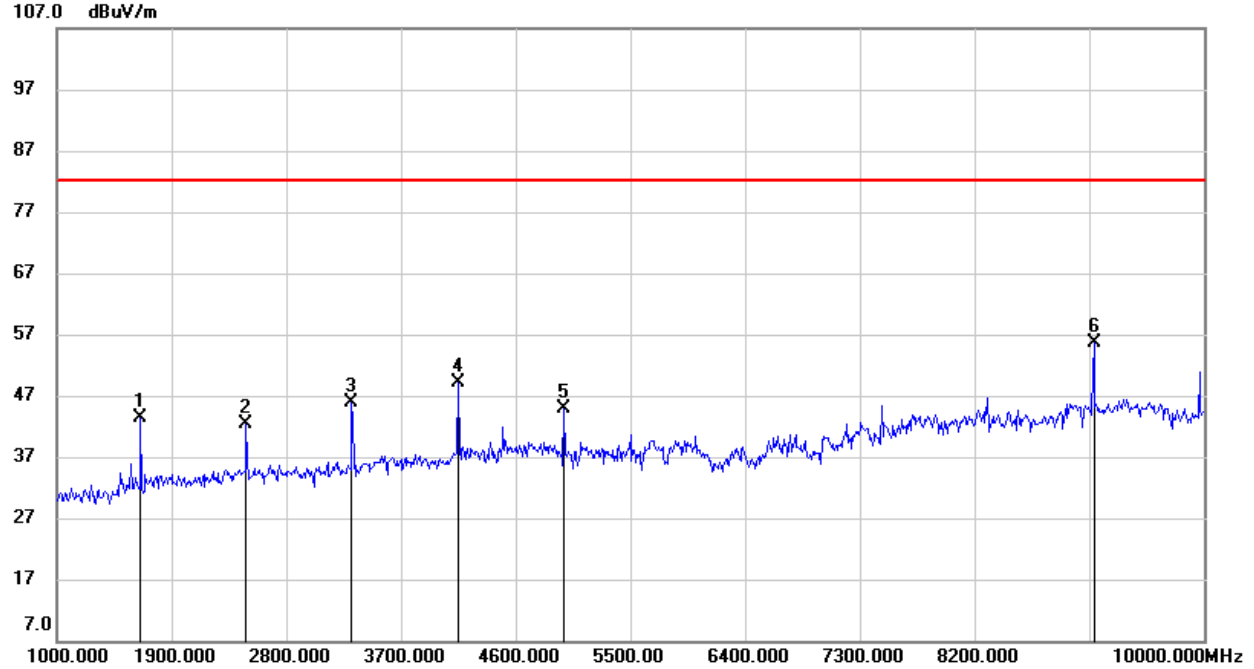
QPSK-15 MHz-High Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1666.000	49.52	-11.43	38.09	82.25	-44.11	peak



3340.000	46.56	-6.39	40.17	82.25	-42.03	peak
4177.000	45.88	-3.04	42.84	82.25	-39.36	peak
7849.000	38.42	5.91	44.33	82.25	-37.87	peak
8299.000	37.61	6.94	44.55	82.25	-37.65	peak
9190.000	38.73	8.47	47.20	82.25	-35.00	peak

QPSK-15 MHz-Mid Channel- Vertical(worst case)



Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1657.000	54.83	-11.48	43.35	82.25	-38.85	peak
2485.000	51.17	-8.75	42.42	82.25	-39.78	peak
3313.000	52.33	-6.43	45.90	82.25	-36.30	peak
4150.000	52.30	-3.28	49.02	82.25	-33.18	peak
4978.000	45.97	-1.13	44.84	82.25	-37.36	peak
9136.000	46.89	8.78	55.67	82.25	-26.53	peak

Note: Limit= -13dBm+95.2=82.25 dBuV/m

**LTE Band 38**

QPSK-20 MHz-Low Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5137.500	43.11	-0.21	42.90	70.25	-39.30	peak
7710.000	50.00	5.80	55.80	70.25	-26.40	peak
10282.500	43.92	11.13	55.05	70.25	-27.15	peak
11820.000	35.37	17.21	52.58	70.25	-29.62	peak
13890.000	33.11	20.56	53.67	70.25	-28.53	peak
17715.000	30.84	22.31	53.15	70.25	-29.05	peak

QPSK-20 MHz-Low Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5137.500	47.48	-0.21	47.27	70.25	-34.93	peak
7710.000	53.33	5.80	59.13	70.25	-23.07	peak
10282.500	52.80	11.13	63.93	70.25	-18.27	peak
12855.000	38.94	17.25	56.19	70.25	-26.01	peak
13860.000	33.35	20.55	53.90	70.25	-28.30	peak
17962.500	29.95	23.58	53.53	70.25	-28.67	peak

QPSK-20 MHz-Mid Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5167.500	45.41	-0.01	45.40	70.25	-36.80	peak
6855.000	42.36	3.91	46.27	70.25	-35.93	peak
7755.000	50.58	5.93	56.51	70.25	-25.69	peak
10342.500	46.21	11.29	57.50	70.25	-24.70	peak
11835.000	35.47	17.20	52.67	70.25	-29.53	peak
13867.500	33.10	20.54	53.64	70.25	-28.56	peak

QPSK-20 MHz-Mid Channel- Vertical

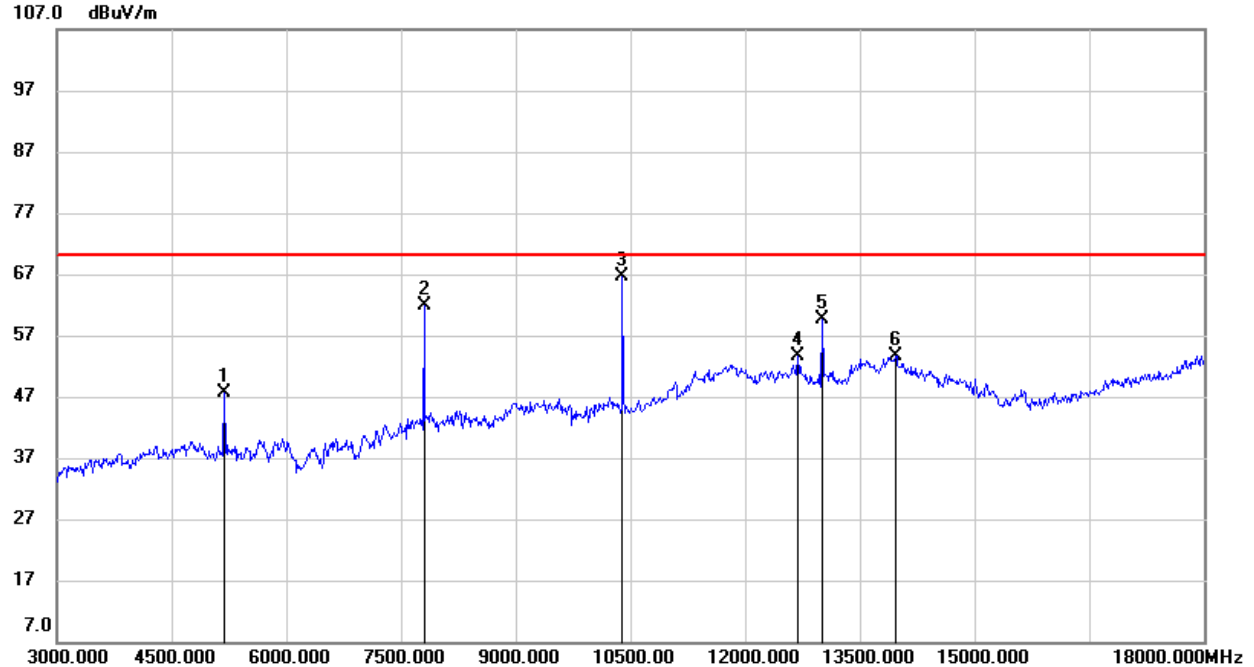
Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5167.500	47.22	-0.01	47.21	70.25	-34.99	peak
7755.000	55.46	5.93	61.39	70.25	-20.81	peak
10342.500	57.60	11.29	68.89	70.25	-13.31	peak
11752.500	35.44	16.92	52.36	70.25	-29.84	peak
12930.000	40.02	17.20	57.22	70.25	-24.98	peak
17985.000	29.43	23.64	53.07	70.25	-29.13	peak

QPSK-20 MHz-High Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5197.500	46.11	0.19	46.30	70.25	-35.90	peak
7800.000	46.37	6.08	52.45	70.25	-29.75	peak
10402.500	46.32	11.45	57.77	70.25	-24.43	peak
11827.500	35.23	17.20	52.43	70.25	-29.77	peak
13845.000	32.71	20.52	53.23	70.25	-28.97	peak
17902.500	29.67	23.44	53.11	70.25	-29.09	peak



QPSK-20 MHz-High Channel- Vertical(worst case)



Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5197.500	47.32	0.19	47.51	70.25	-34.69	peak
7800.000	55.68	6.08	61.76	70.25	-20.44	peak
10402.500	55.06	11.45	66.51	70.25	-15.69	peak
12690.000	36.59	17.02	53.61	70.25	-28.59	peak
13005.000	42.47	17.16	59.63	70.25	-22.57	peak
13972.500	33.00	20.62	53.62	70.25	-28.58	peak

Note: Limit= -25dBm+95.2=70.25 dBuV/m

**LTE Band 41**

QPSK-20 MHz-Low Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
7492.500	48.16	5.66	53.82	70.25	-28.38	peak
9990.000	41.99	10.57	52.56	70.25	-29.64	peak
11820.000	35.05	17.21	52.26	70.25	-29.94	peak
12600.000	35.72	16.81	52.53	70.25	-29.67	peak
13605.000	33.84	19.74	53.58	70.25	-28.62	peak
17902.500	30.41	23.44	53.85	70.25	-28.35	peak

QPSK-20 MHz-Low Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4995.000	45.80	-1.12	44.68	70.25	-37.52	peak
7492.500	53.70	5.66	59.36	70.25	-22.84	peak
9990.000	52.19	10.57	62.76	70.25	-19.44	peak
12487.500	43.97	16.86	60.83	70.25	-21.37	peak
13957.500	32.87	20.61	53.48	70.25	-28.72	peak
17812.500	29.86	23.23	53.09	70.25	-29.11	peak

QPSK-20 MHz-Mid Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5167.500	45.22	-0.01	45.21	70.25	-36.99	peak
7747.500	50.14	5.92	56.06	70.25	-26.14	peak
10335.000	44.43	11.27	55.70	70.25	-26.50	peak
11827.500	35.02	17.20	52.22	70.25	-29.98	peak
13590.000	34.81	19.70	54.51	70.25	-27.69	peak
17872.500	30.05	23.36	53.41	70.25	-28.79	peak

QPSK-20 MHz-Mid Channel- Vertical

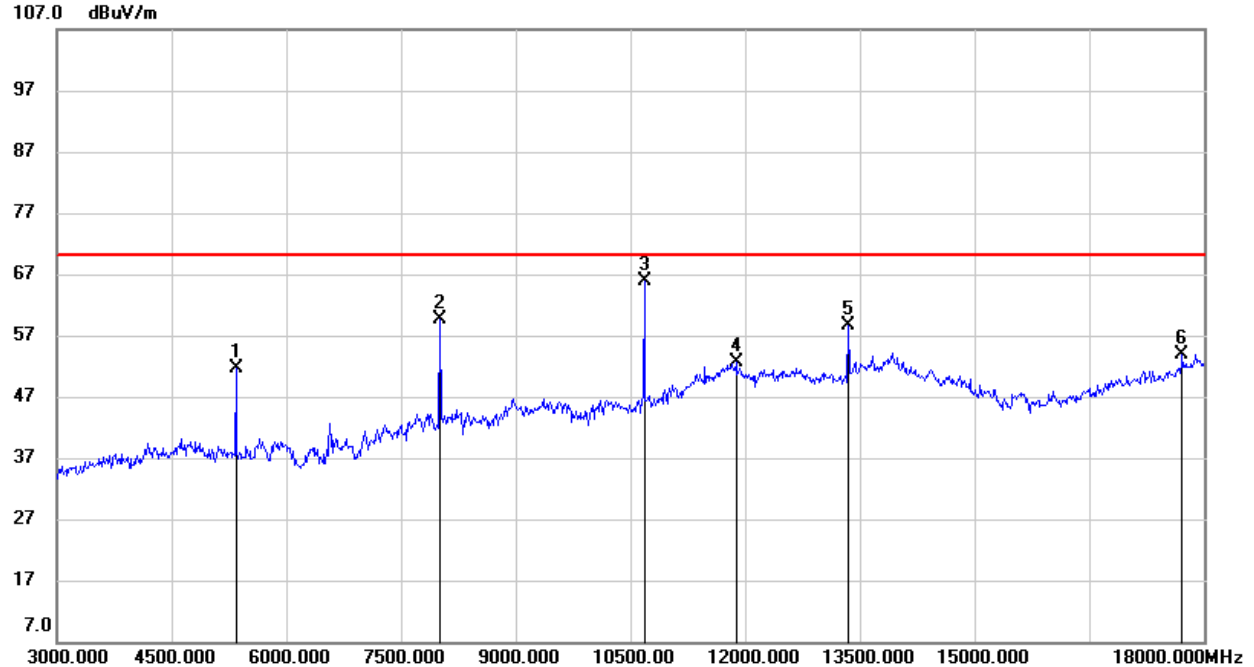
Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5167.500	45.63	-0.01	45.62	70.25	-36.58	peak
7755.000	53.87	5.93	59.80	70.25	-22.40	peak
10335.000	54.65	11.27	65.92	70.25	-16.28	peak
12922.500	41.13	17.20	58.33	70.25	-23.87	peak
13912.500	33.24	20.58	53.82	70.25	-28.38	peak
17835.000	31.34	23.28	54.62	70.25	-27.58	peak

QPSK-20 MHz-High Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3337.500	55.22	-6.39	48.83	70.25	-33.37	peak
5340.000	47.91	0.12	48.03	70.25	-34.17	peak
8010.000	48.89	5.45	54.34	70.25	-27.86	peak
10687.500	49.60	12.41	62.01	70.25	-20.19	peak
13920.000	33.43	20.58	54.01	70.25	-28.19	peak
17992.500	29.24	23.66	52.90	70.25	-29.30	peak



QPSK-20 MHz-High Channel- Vertical(worst case)



Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5340.000	51.58	0.12	51.70	70.25	-18.55	peak
8010.000	54.25	5.45	59.70	70.25	-10.55	peak
10687.500	53.56	12.41	65.97	70.25	-4.28	peak
11880.000	35.43	17.17	52.60	70.25	-17.65	peak
13357.500	39.57	18.94	58.51	70.25	-11.74	peak
17722.500	31.59	22.39	53.98	70.25	-16.27	peak

Note: Limit= -25dBm+95.25=70.25 dBuV/m

END OF REPORT