



FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : POCO
MODEL NAME : 2311DRK48G
FCC ID : 2AFZZK48G
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Sep. 21, 2023 ~ Oct. 24, 2023

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG391402B	Rev. 01	Initial issue of report	Nov. 06, 2023



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2)	EIRP < 2Watt		-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt		-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 41.62 dB at 7484.36 MHz

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	POCO
Model Name	2311DRK48G
FCC ID	2AFZZK48G
IMEI Code	Conducted: 863478060045301/863478060046319 Radiation: 863478060040627/863478060040635
HW Version	1351N11A
SW Version	Xiaomi HyperOS 1.0
EUT Stage	Identical Prototype



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz
Rx Frequency	LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 66 : 2110 MHz~ 2200 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	<Ant. 0> LTE Band 5 : 25.35 dBm <Ant. 1> LTE Band 2 : 24.35 dBm LTE Band 4 : 24.31 dBm LTE Band 5 : 25.15 dBm LTE Band 66 : 24.49 dBm LTE Band 66B : 24.24 dBm LTE Band 66C : 23.19 dBm <Ant. 2> LTE Band 4 : 24.88 dBm LTE Band 66 : 24.95 dBm LTE Band 66B : 24.04 dBm LTE Band 66C : 23.36 dBm <Ant. 4> LTE Band 2 : 24.50 dBm LTE Band 4 : 24.79 dBm LTE Band 66 : 24.81 dBm LTE Band 66B : 24.18 dBm LTE Band 66C : 23.34 dBm
Antenna Gain	<Ant. 0> LTE Band 5 : -3.6 dBi <Ant. 1> LTE Band 2 : -2.43 dBi LTE Band 4 : -2.57 dBi LTE Band 5 : -4.96 dBi LTE Band 66 : -2.57 dBi <Ant. 2> LTE Band 4 : -1.2 dBi LTE Band 66 : -1.2 dBi <Ant. 4> LTE Band 2 : -4.2 dBi LTE Band 4 : -6.7 dBi LTE Band 66 : -6.7 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Note:

1. The maximum ERP/EIRP is calculated from max output power and max antenna gain, so only the



maximum ERP/EIRP are shown in the report, Ant.0 for LTE B5, Ant. 1 for LTE B2 and Ant. 2 for LTE B4/66/66B/66C.

2. The device supports two PAs for LTE B2/5(main PA and other PA), the maximum power of main PA is higher than the other PA, therefore, we chose higher power of main PA to calculate the ERP/EIRP and show in the report.
3. For QAM modulation mode, the whole testing has assessed 16QAM&64QAM mode by referring to the higher conducted power.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum ERP/EIRP and Emission Designator

LTE Band 2		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1909.3	0.1528	1M09G7D	0.1175	1M10W7D
3	1851.5 ~ 1908.5	0.1542	2M72G7D	0.1153	2M73W7D
5	1852.5 ~ 1907.5	0.1535	4M51G7D	0.1146	4M49W7D
10	1855.0 ~ 1905.0	0.1524	9M11G7D	0.1140	9M07W7D
15	1857.5 ~ 1902.5	0.1538	13M5G7D	0.1156	13M5W7D
20	1860.0 ~ 1900.0	0.1556	17M9G7D	0.1167	17M9W7D
LTE Band 4		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1710.7 ~ 1754.3	0.2333	1M09G7D	0.1807	1M11W7D
3	1711.5 ~ 1753.5	0.2344	2M72G7D	0.1742	2M71W7D
5	1712.5 ~ 1752.5	0.2350	4M49G7D	0.1746	4M47W7D
10	1715.0 ~ 1750.0	0.2323	8M99G7D	0.1742	9M05W7D
15	1717.5 ~ 1747.5	0.2333	13M4G7D	0.1746	13M4W7D
20	1720.0 ~ 1745.0	0.2371	17M9G7D	0.1782	17M9W7D
LTE Band 5		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.0899	1M09G7D	0.0692	1M09W7D
3	825.5 ~ 847.5	0.0897	2M73G7D	0.0675	2M71W7D
5	826.5 ~ 846.5	0.0899	4M50G7D	0.0675	4M51W7D
10	829.0 ~ 844.0	0.0912	9M05G7D	0.0690	9M05W7D



LTE Band 66		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1710.7 ~ 1779.3	0.2333	1M09G7D	0.1807	1M11W7D
3	1711.5 ~ 1778.5	0.2344	2M72G7D	0.1742	2M71W7D
5	1712.5 ~ 1777.5	0.2350	4M49G7D	0.1746	4M47W7D
10	1715.0 ~ 1775.0	0.2323	8M99G7D	0.1742	9M05W7D
15	1717.5 ~ 1772.5	0.2333	13M4G7D	0.1746	13M4W7D
20	1720.0 ~ 1770.0	0.2371	17M9G7D	0.1782	17M9W7D

LTE Band CA_66B		QPSK		16QAM/64QAM/256QAM	
BW (MHz)		Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5MHz+5MHz		0.1770	9M35G7D	0.1517	9M27W7D
5MHz+10MHz		0.1799	13M8G7D	0.1560	13M9W7D
5MHz+15MHz		0.1858	18M1G7D	0.1585	17M9W7D
10MHz+5MHz		0.1837	13M9G7D	0.1585	13M8W7D
10MHz+10MHz		0.1923	18M7G7D	0.1675	18M6W7D
15MHz+5MHz		0.1879	18M1G7D	0.1641	18M2W7D
LTE Band CA_66C		QPSK		16QAM/64QAM/256QAM	
BW (MHz)		Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5MHz+20MHz		0.1552	23M1G7D	0.1343	22M9W7D
10MHz+15MHz		0.1531	23M1G7D	0.1361	23M5W7D
10MHz+20MHz		0.1563	27M9G7D	0.1396	28M1W7D
15MHz+10MHz		0.1600	22M9G7D	0.1413	23M2W7D
15MHz+15MHz		0.1644	28M7G7D	0.1462	28M6W7D
15MHz+20MHz		0.1493	32M7G7D	0.0824	32M5W7D
20MHz+5MHz		0.1545	23M2G7D	0.1321	23M3W7D
20MHz+10MHz		0.1626	27M8G7D	0.1469	27M7W7D
20MHz+15MHz		0.1500	32M6G7D	0.1486	32M8W7D
20MHz+20MHz		0.1629	37M6G7D	0.1483	37M6W7D

Note:

1. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.
2. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.



1.7 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24



1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (Y/Z Plane)

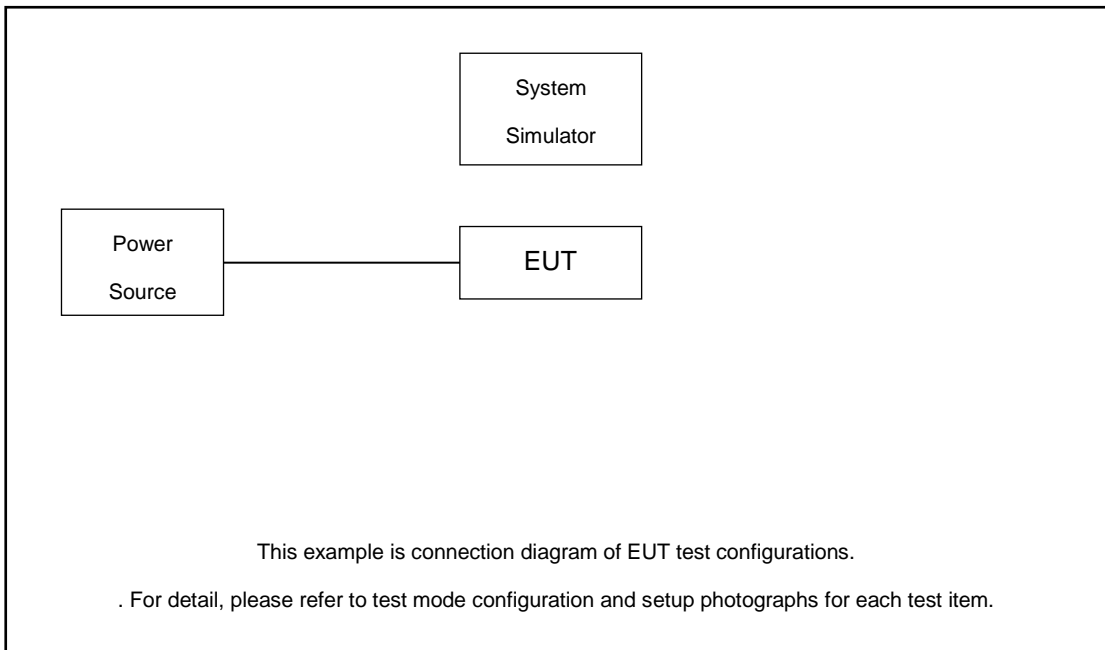
Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel			
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256 QAM	1	Half	Full	L	M	H	
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v	
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	
Peak-to-Average Ratio	2						v	v	v	v				v		v		
	5				v	-	-	v	v	v				v		v		
	66						v	v	v	v				v		v		
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v					v		v		
	5	v	v	v	v	-	-	v	v					v		v		
	66	v	v	v	v	v	v	v	v					v		v		
Conducted Band Edge	2	v	v	v	v	v	v	v	v	v			v		v		v	
	5	v	v	v	v	-	-	v	v	v			v		v		v	
	66	v	v	v	v	v	v	v	v	v			v		v		v	
Conducted Spurious Emission	2	v	v	v	v	v	v	v					v		v	v	v	
	5	v	v	v	v	-	-	v					v		v	v	v	
	66	v	v	v	v	v	v	v					v		v	v	v	
Frequency Stability	2				v			v							v		v	
	5				v	-	-	v							v		v	
	66				v			v							v		v	
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	
	5	v	v	v	v	-	-	v	v	v	v	v	v		v	v	v	
	66	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	
Radiated Spurious Emission	2	Worst Case															v	
	5	Worst Case															v	
	66	Worst Case															v	
Note	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. All test items are based on engineering evaluation. 																	



Test Items	Band	Bandwidth (MHz)								Modulation				RB #			Test Channel			
		10+10	15+5	5+15	10+5	5+10	5+5	5+3	3+5	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H	
Max. Output Power	66B_CA	v	v	v	v	v	v	-	-	v	v	v	v	v			v	v	v	v
26dB and 99% Bandwidth	66B_CA	v	v	v	v	v	v	-	-	v	v						v		v	
Conducted Band Edge	66B_CA	v	v	v	v	v	v	-	-	v	v	v			v		v	v		v
Conducted Spurious Emission	66B_CA	v	v	v	v	v	v	-	-	v					v			v	v	v
E.I.R.P.	66B_CA	v	v	v	v	v	v	-	-	v	v	v	v	v			v	v	v	v
Radiated Spurious Emission	66B_CA	Worst Case																		v
Note	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. All test items are based on engineering evaluation. 																			

Test Items	Band	Bandwidth (MHz)										Modulation				RB #			Test Channel			
		20+20	20+15	20+10	20+5	15+20	15+15	15+10	10+20	10+15	5+20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H	
Max. Output Power	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v	
26dB and 99% Bandwidth	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v					v		v		
Conducted Band Edge	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v			v		v	v		v	
Conducted Spurious Emission	66C_CA	v	v	v	v	v	v	v	v	v	v	v					v			v	v	v
E.I.R.P.	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v				v	v	v	
Radiated Spurious Emission	66C_CA	Worst Case																		v		
Note	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. All test items are based on engineering evaluation. 																					

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

Following shows an offset computation example with cable loss 4.5 dB and 10dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.5 + 10 = 14.5 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3



LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3



LTE Band 66C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10 + 15	PCC	Channel	132025	132351	132477
		Frequency	1715.3	1747.9	1760.5
	SCC	Channel	132145	132471	132597
		Frequency	1727.3	1759.9	1772.5
15 + 10	PCC	Channel	132047	132373	132499
		Frequency	1717.5	1750.1	1762.7
	SCC	Channel	132167	132493	132619
		Frequency	1729.5	1762.1	1774.7
10 + 20	PCC	Channel	132027	132328	132428
		Frequency	1715.5	1745.6	1755.6
	SCC	Channel	132171	132472	132572
		Frequency	1729.9	1760	1770
20 + 10	PCC	Channel	132072	132373	132473
		Frequency	1720	1750.1	1760.1
	SCC	Channel	132216	132517	132617
		Frequency	1734.4	1764.5	1774.5
15 + 15	PCC	Channel	132047	132347	132447
		Frequency	1717.5	1747.5	1757.5
	SCC	Channel	132197	132497	132597
		Frequency	1732.5	1762.5	1772.5
15 + 20	PCC	Channel	132050	132325	132401
		Frequency	1717.8	1745.3	1752.9
	SCC	Channel	132221	132496	132572
		Frequency	1734.9	1762.4	1770
20 + 15	PCC	Channel	132072	132348	132423
		Frequency	1720	1747.6	1755.1
	SCC	Channel	132243	132519	132594
		Frequency	1737.1	1764.7	1772.2
20 + 5	PCC	Channel	132072	132397	132522
		Frequency	1720	1752.5	1765
	SCC	Channel	132189	132514	132639
		Frequency	1731.7	1764.2	1776.7
5 + 20	PCC	Channel	132005	132330	132455
		Frequency	1713.3	1745.8	1758.3



	SCC	Channel	132122	132447	132572
		Frequency	1725	1757.5	1770
20 + 20	PCC	Channel	132072	132323	132374
		Frequency	1720	1745.1	1750.2
	SCC	Channel	132270	132521	132572
		Frequency	1739.8	1764.9	1770

LTE Band 66B_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
5 + 5	PCC	Channel	131997	132398	132599
		Frequency	1712.5	1752.6	1772.7
	SCC	Channel	132045	132446	132647
		Frequency	1717.3	1757.4	1777.5
5 + 10	PCC	Channel	132000	132375	132550
		Frequency	1712.8	1750.3	1767.8
	SCC	Channel	132072	132447	132622
		Frequency	1720	1757.5	1775
10 + 5	PCC	Channel	132022	132397	132572
		Frequency	1715	1752.5	1770
	SCC	Channel	132094	132469	132644
		Frequency	1722.2	1759.7	1777.2
5 + 15	PCC	Channel	132002	132353	132504
		Frequency	1713	1748.1	1763.2
	SCC	Channel	132095	132446	132597
		Frequency	1722.3	1757.4	1772.5
15 + 5	PCC	Channel	132047	132398	132549
		Frequency	1717.5	1752.6	1767.7
	SCC	Channel	132140	132491	132642
		Frequency	1726.8	1761.9	1777
10 + 10	PCC	Channel	132022	132373	132523
		Frequency	1715	1750.1	1765.1
	SCC	Channel	132121	132472	132622
		Frequency	1724.9	1760	1775

3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

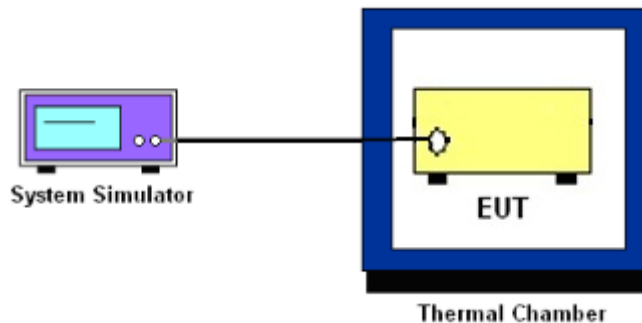
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.



3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.



3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.



3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. 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.

27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.



3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW \geq 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.



3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= P(W)- [43 + 10log(P)] (dB)
= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
= -13dBm.



3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

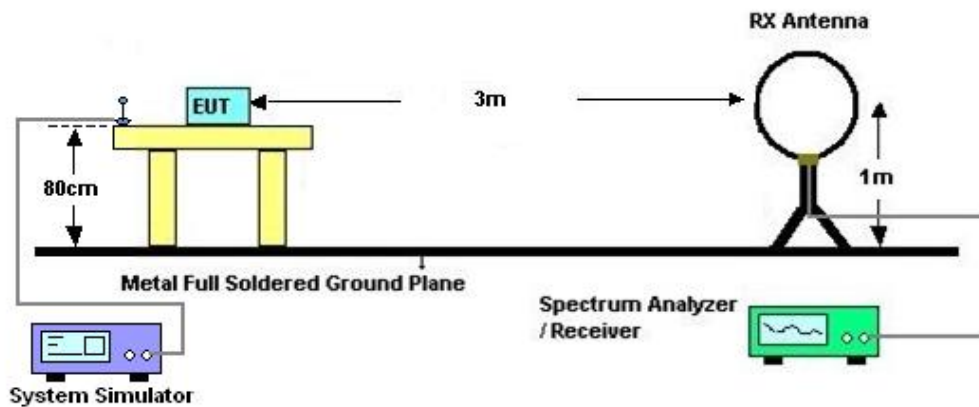
4 Radiated Test Items

4.1 Measuring Instruments

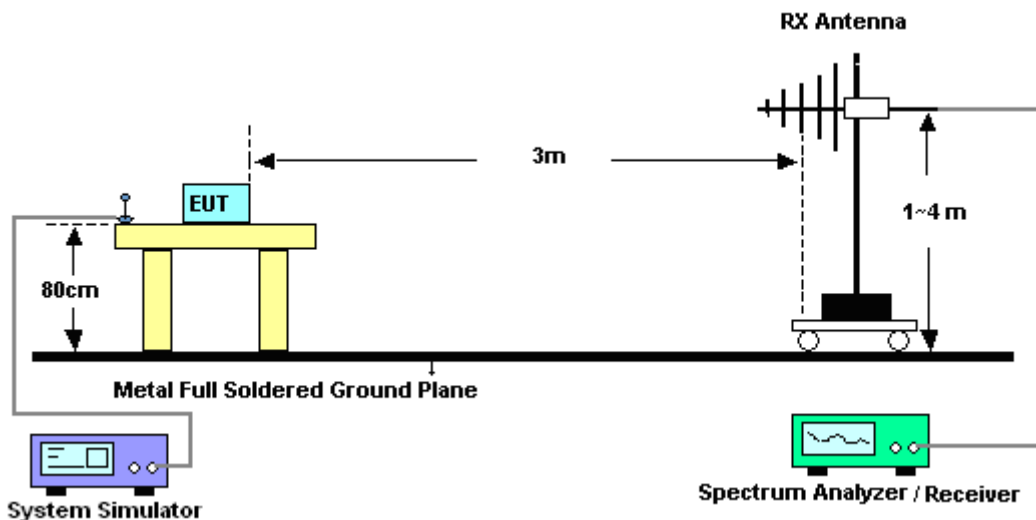
See list of measuring instruments of this test report.

4.2 Test Setup

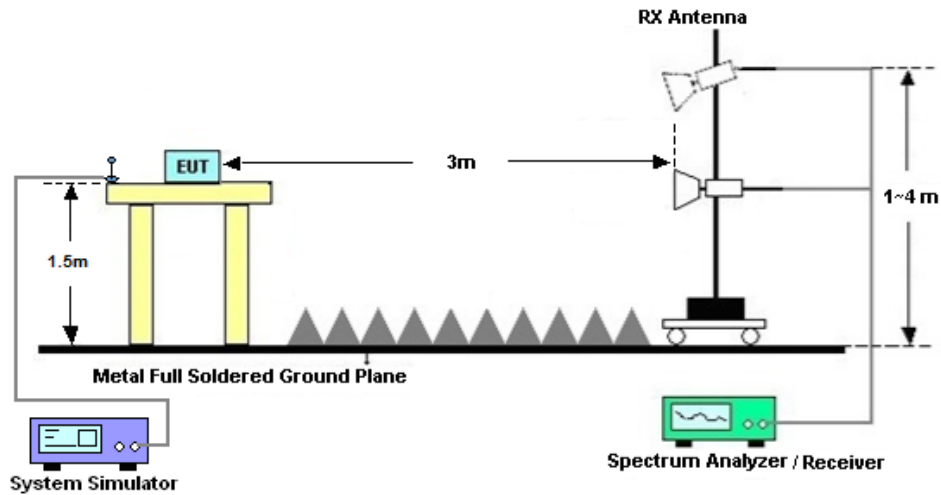
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ 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.



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 06, 2023	Sep. 21, 2023~ Oct. 24, 2023	Apr. 05, 2024	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 17, 2022	Sep. 21, 2023~ Oct. 24, 2023	Oct. 16, 2023	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 16, 2023		Oct. 15, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2022	Sep. 21, 2023~ Oct. 24, 2023	Dec. 24, 2023	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 05, 2023	Sep. 21, 2023~ Oct. 24, 2023	Jul. 04, 2024	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 19, 2022	Oct. 11, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Oct. 11, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Oct. 11, 2023	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 14, 2023	Oct. 11, 2023	May 13, 2024	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	Oct. 11, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	Oct. 11, 2023	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 19, 2022	Oct. 11, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Oct. 11, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	Oct. 11, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Aug. 21, 2023	Oct. 11, 2023	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Nov.10, 2022	Oct. 11, 2023	Nov.09, 2023	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 11, 2023	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 11, 2023	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required



6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±1.34 dB
Conducted Emissions	±1.34 dB
Occupied Channel Bandwidth	±0.13 %

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.1 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9 dB
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Appendix A. Test Results of Conducted Test

Test Engineer :	Change Chen	Temperature :	24~26°C
		Relative Humidity :	50~53%

Conducted Output Power(Average power)

LTE Band 2 - Ant.1:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	24.29	24.35	24.33
20	QPSK	1	49	24.20	24.32	24.24
20	QPSK	1	99	24.25	24.33	24.30
20	QPSK	50	0	23.20	23.29	23.27
20	QPSK	50	24	23.07	23.25	23.16
20	QPSK	50	50	23.15	23.21	23.19
20	QPSK	100	0	23.14	23.18	23.17
20	16QAM	1	0	23.01	23.10	23.01
20	16QAM	1	49	23.07	23.10	22.96
20	16QAM	1	99	23.02	23.08	22.96
20	16QAM	50	0	22.13	22.29	22.22
20	16QAM	50	24	22.08	22.27	22.10
20	16QAM	50	50	22.07	22.25	22.12
20	16QAM	100	0	22.12	22.25	22.22
20	64QAM	1	0	22.44	22.57	22.39
20	64QAM	1	49	22.31	22.49	22.36
20	64QAM	1	99	22.40	22.55	22.43
20	64QAM	50	0	21.11	21.30	21.24
20	64QAM	50	24	21.09	21.22	21.04
20	64QAM	50	50	21.16	21.19	21.07
20	64QAM	100	0	21.08	21.24	21.18
20	256QAM	1	0	19.35	19.41	19.36
20	256QAM	1	49	19.23	19.33	19.23
20	256QAM	1	99	19.33	19.44	19.28
20	256QAM	50	0	19.21	19.31	19.09
20	256QAM	50	24	19.09	19.19	19.12
20	256QAM	50	50	19.07	19.13	19.14
20	256QAM	100	0	19.12	19.24	19.23
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	24.25	24.30	24.20
15	QPSK	1	37	24.14	24.24	24.09
15	QPSK	1	74	24.11	24.25	24.18
15	QPSK	36	0	23.14	23.21	23.19
15	QPSK	36	20	22.94	23.17	23.03
15	QPSK	36	39	23.06	23.10	23.07



15	QPSK	75	0	23.04	23.15	23.14
15	16QAM	1	0	22.93	23.06	22.95
15	16QAM	1	37	22.95	23.01	22.83
15	16QAM	1	74	22.99	22.94	22.90
15	16QAM	36	0	22.04	22.25	22.13
15	16QAM	36	20	22.00	22.12	22.07
15	16QAM	36	39	21.97	22.11	22.06
15	16QAM	75	0	22.05	22.22	22.15
15	64QAM	1	0	22.37	22.49	22.24
15	64QAM	1	37	22.18	22.45	22.27
15	64QAM	1	74	22.26	22.43	22.38
15	64QAM	36	0	20.96	21.25	21.19
15	64QAM	36	20	21.01	21.12	20.95
15	64QAM	36	39	21.07	21.05	21.02
15	64QAM	75	0	20.96	21.17	21.04
15	256QAM	1	0	19.29	19.30	19.28
15	256QAM	1	37	19.16	19.22	19.18
15	256QAM	1	74	19.21	19.38	19.22
15	256QAM	36	0	19.06	19.27	18.98
15	256QAM	36	20	19.06	19.14	19.07
15	256QAM	36	39	18.94	19.06	19.10
15	256QAM	75	0	19.01	19.10	19.10
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	24.23	24.26	24.19
10	QPSK	1	25	24.11	24.24	24.16
10	QPSK	1	49	24.20	24.22	24.26
10	QPSK	25	0	23.08	23.26	23.23
10	QPSK	25	12	22.99	23.13	23.11
10	QPSK	25	25	23.04	23.07	23.12
10	QPSK	50	0	23.00	23.09	23.05
10	16QAM	1	0	22.93	23.00	22.97
10	16QAM	1	25	22.97	22.96	22.87
10	16QAM	1	49	22.96	22.93	22.83
10	16QAM	25	0	22.05	22.25	22.10
10	16QAM	25	12	21.94	22.17	21.98
10	16QAM	25	25	21.95	22.14	22.06
10	16QAM	50	0	22.07	22.11	22.10
10	64QAM	1	0	22.32	22.44	22.27
10	64QAM	1	25	22.21	22.36	22.26
10	64QAM	1	49	22.36	22.41	22.33
10	64QAM	25	0	21.04	21.20	21.10
10	64QAM	25	12	21.05	21.16	20.92
10	64QAM	25	25	21.08	21.08	20.96
10	64QAM	50	0	20.96	21.16	21.03
10	256QAM	1	0	19.31	19.31	19.26
10	256QAM	1	25	19.16	19.30	19.18
10	256QAM	1	49	19.19	19.37	19.14
10	256QAM	25	0	19.12	19.19	18.94
10	256QAM	25	12	18.96	19.13	19.01



10	256QAM	25	25	18.95	19.03	19.05
10	256QAM	50	0	19.09	19.20	19.15
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	24.17	24.29	24.18
5	QPSK	1	12	24.14	24.24	24.13
5	QPSK	1	24	24.14	24.25	24.18
5	QPSK	12	0	23.10	23.19	23.17
5	QPSK	12	7	22.95	23.17	23.06
5	QPSK	12	13	23.00	23.11	23.10
5	QPSK	25	0	23.11	23.04	23.05
5	16QAM	1	0	22.94	22.96	22.87
5	16QAM	1	12	22.92	22.95	22.90
5	16QAM	1	24	22.98	23.02	22.85
5	16QAM	12	0	21.99	22.15	22.11
5	16QAM	12	7	21.99	22.12	21.96
5	16QAM	12	13	22.04	22.12	22.07
5	16QAM	25	0	22.01	22.22	22.10
5	64QAM	1	0	22.29	22.48	22.32
5	64QAM	1	12	22.17	22.45	22.23
5	64QAM	1	24	22.35	22.48	22.37
5	64QAM	12	0	21.06	21.22	21.13
5	64QAM	12	7	20.97	21.12	20.99
5	64QAM	12	13	21.07	21.04	20.96
5	64QAM	25	0	21.00	21.17	21.05
5	256QAM	1	0	19.23	19.35	19.25
5	256QAM	1	12	19.12	19.24	19.19
5	256QAM	1	24	19.20	19.41	19.21
5	256QAM	12	0	19.12	19.19	18.96
5	256QAM	12	7	18.99	19.09	19.09
5	256QAM	12	13	18.98	19.08	19.06
5	256QAM	25	0	19.02	19.19	19.11
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	24.20	24.31	24.19
3	QPSK	1	8	24.10	24.18	24.17
3	QPSK	1	14	24.17	24.20	24.17
3	QPSK	8	0	23.16	23.20	23.22
3	QPSK	8	4	23.02	23.18	23.04
3	QPSK	8	7	23.08	23.18	23.09
3	QPSK	15	0	23.03	23.06	23.09
3	16QAM	1	0	22.90	22.99	22.87
3	16QAM	1	8	22.96	23.05	22.91
3	16QAM	1	14	22.93	23.04	22.90
3	16QAM	8	0	22.00	22.19	22.11
3	16QAM	8	4	21.98	22.18	22.05
3	16QAM	8	7	21.99	22.13	22.07
3	16QAM	15	0	22.01	22.13	22.09
3	64QAM	1	0	22.34	22.50	22.30
3	64QAM	1	8	22.25	22.43	22.25



3	64QAM	1	14	22.36	22.44	22.36
3	64QAM	8	0	20.98	21.22	21.19
3	64QAM	8	4	20.95	21.12	20.94
3	64QAM	8	7	21.05	21.15	21.00
3	64QAM	15	0	21.00	21.16	21.10
3	256QAM	1	0	19.31	19.33	19.27
3	256QAM	1	8	19.15	19.24	19.19
3	256QAM	1	14	19.25	19.31	19.20
3	256QAM	8	0	19.14	19.24	18.95
3	256QAM	8	4	18.96	19.16	18.99
3	256QAM	8	7	18.94	19.02	19.08
3	256QAM	15	0	19.00	19.10	19.15
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	24.22	24.25	24.27
1.4	QPSK	1	3	24.07	24.20	24.16
1.4	QPSK	1	5	24.17	24.23	24.20
1.4	QPSK	3	0	24.14	24.22	24.20
1.4	QPSK	3	1	24.09	24.26	24.17
1.4	QPSK	3	3	24.19	24.21	24.16
1.4	QPSK	6	0	23.06	23.20	23.15
1.4	16QAM	1	0	22.96	23.13	23.01
1.4	16QAM	1	3	23.02	23.10	23.12
1.4	16QAM	1	5	23.05	23.05	23.12
1.4	16QAM	3	0	22.93	23.06	22.88
1.4	16QAM	3	1	22.93	23.01	22.81
1.4	16QAM	3	3	22.91	22.94	22.84
1.4	16QAM	6	0	21.98	22.25	22.07
1.4	64QAM	1	0	21.94	22.23	21.97
1.4	64QAM	1	3	21.92	22.12	22.05
1.4	64QAM	1	5	22.04	22.19	22.12
1.4	64QAM	3	0	22.39	22.53	22.32
1.4	64QAM	3	1	22.27	22.38	22.28
1.4	64QAM	3	3	22.34	22.45	22.39
1.4	64QAM	6	0	21.07	21.19	21.12
1.4	256QAM	1	0	19.25	19.31	19.21
1.4	256QAM	1	3	19.12	19.25	19.10
1.4	256QAM	1	5	19.28	19.32	19.14
1.4	256QAM	3	0	19.10	19.21	18.97
1.4	256QAM	3	1	18.98	19.08	19.06
1.4	256QAM	3	3	19.09	19.12	19.04
1.4	256QAM	6	0	19.02	19.19	19.16



LTE Band 4 - Ant.2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	24.84	24.88	24.77
20	QPSK	1	49	24.71	24.80	24.75
20	QPSK	1	99	24.68	24.86	24.79
20	QPSK	50	0	23.80	23.82	23.76
20	QPSK	50	24	23.62	23.78	23.69
20	QPSK	50	50	23.65	23.75	23.67
20	QPSK	100	0	23.71	23.79	23.60
20	16QAM	1	0	23.46	23.68	23.51
20	16QAM	1	49	23.51	23.56	23.51
20	16QAM	1	99	23.51	23.60	23.41
20	16QAM	50	0	22.63	22.79	22.70
20	16QAM	50	24	22.64	22.71	22.54
20	16QAM	50	50	22.64	22.73	22.66
20	16QAM	100	0	22.69	22.72	22.70
20	64QAM	1	0	22.54	22.70	22.47
20	64QAM	1	49	22.48	22.65	22.62
20	64QAM	1	99	22.59	22.68	22.55
20	64QAM	50	0	21.65	21.79	21.77
20	64QAM	50	24	21.53	21.70	21.60
20	64QAM	50	50	21.69	21.70	21.60
20	64QAM	100	0	21.62	21.73	21.66
20	256QAM	1	0	19.86	19.89	19.78
20	256QAM	1	49	19.72	19.75	19.79
20	256QAM	1	99	19.74	19.93	19.82
20	256QAM	50	0	19.73	19.82	19.60
20	256QAM	50	24	19.62	19.76	19.68
20	256QAM	50	50	19.62	19.73	19.65
20	256QAM	100	0	19.68	19.71	19.67
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	24.80	24.83	24.66
15	QPSK	1	37	24.61	24.72	24.69
15	QPSK	1	74	24.60	24.81	24.66
15	QPSK	36	0	23.72	23.68	23.64
15	QPSK	36	20	23.49	23.69	23.61
15	QPSK	36	39	23.58	23.71	23.55
15	QPSK	75	0	23.64	23.68	23.50
15	16QAM	1	0	23.40	23.63	23.40
15	16QAM	1	37	23.40	23.42	23.37
15	16QAM	1	74	23.43	23.52	23.36
15	16QAM	36	0	22.59	22.65	22.60
15	16QAM	36	20	22.59	22.66	22.43
15	16QAM	36	39	22.58	22.62	22.63
15	16QAM	75	0	22.59	22.62	22.66



15	64QAM	1	0	22.48	22.61	22.43
15	64QAM	1	37	22.38	22.61	22.52
15	64QAM	1	74	22.51	22.59	22.42
15	64QAM	36	0	21.54	21.73	21.70
15	64QAM	36	20	21.47	21.57	21.46
15	64QAM	36	39	21.66	21.62	21.45
15	64QAM	75	0	21.51	21.68	21.58
15	256QAM	1	0	19.80	19.85	19.63
15	256QAM	1	37	19.63	19.61	19.71
15	256QAM	1	74	19.67	19.87	19.69
15	256QAM	36	0	19.66	19.73	19.45
15	256QAM	36	20	19.48	19.68	19.60
15	256QAM	36	39	19.50	19.61	19.55
15	256QAM	75	0	19.64	19.61	19.53
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	24.78	24.80	24.73
10	QPSK	1	25	24.58	24.68	24.69
10	QPSK	1	49	24.64	24.78	24.75
10	QPSK	25	0	23.70	23.78	23.71
10	QPSK	25	12	23.55	23.71	23.65
10	QPSK	25	25	23.52	23.67	23.58
10	QPSK	50	0	23.66	23.73	23.49
10	16QAM	1	0	23.38	23.63	23.48
10	16QAM	1	25	23.44	23.46	23.37
10	16QAM	1	49	23.39	23.54	23.36
10	16QAM	25	0	22.58	22.76	22.64
10	16QAM	25	12	22.55	22.65	22.42
10	16QAM	25	25	22.56	22.60	22.55
10	16QAM	50	0	22.66	22.68	22.65
10	64QAM	1	0	22.44	22.65	22.33
10	64QAM	1	25	22.41	22.54	22.55
10	64QAM	1	49	22.46	22.62	22.40
10	64QAM	25	0	21.56	21.72	21.72
10	64QAM	25	12	21.50	21.63	21.50
10	64QAM	25	25	21.59	21.58	21.50
10	64QAM	50	0	21.51	21.61	21.56
10	256QAM	1	0	19.78	19.83	19.66
10	256QAM	1	25	19.58	19.67	19.67
10	256QAM	1	49	19.65	19.81	19.78
10	256QAM	25	0	19.68	19.70	19.49
10	256QAM	25	12	19.55	19.67	19.56
10	256QAM	25	25	19.59	19.66	19.58
10	256QAM	50	0	19.62	19.57	19.62
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	24.74	24.85	24.73
5	QPSK	1	12	24.66	24.74	24.70
5	QPSK	1	24	24.59	24.77	24.68
5	QPSK	12	0	23.71	23.71	23.67



5	QPSK	12	7	23.54	23.68	23.59
5	QPSK	12	13	23.61	23.60	23.54
5	QPSK	25	0	23.62	23.73	23.49
5	16QAM	1	0	23.36	23.55	23.45
5	16QAM	1	12	23.40	23.46	23.37
5	16QAM	1	24	23.43	23.56	23.26
5	16QAM	12	0	22.51	22.67	22.64
5	16QAM	12	7	22.59	22.64	22.49
5	16QAM	12	13	22.58	22.65	22.56
5	16QAM	25	0	22.63	22.57	22.64
5	64QAM	1	0	22.44	22.66	22.32
5	64QAM	1	12	22.42	22.58	22.56
5	64QAM	1	24	22.46	22.62	22.48
5	64QAM	12	0	21.59	21.67	21.65
5	64QAM	12	7	21.43	21.64	21.52
5	64QAM	12	13	21.54	21.59	21.53
5	64QAM	25	0	21.50	21.60	21.62
5	256QAM	1	0	19.79	19.81	19.74
5	256QAM	1	12	19.59	19.64	19.75
5	256QAM	1	24	19.61	19.87	19.70
5	256QAM	12	0	19.61	19.73	19.57
5	256QAM	12	7	19.48	19.70	19.61
5	256QAM	12	13	19.58	19.67	19.59
5	256QAM	25	0	19.62	19.66	19.63
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	24.78	24.80	24.70
3	QPSK	1	8	24.60	24.70	24.63
3	QPSK	1	14	24.64	24.82	24.67
3	QPSK	8	0	23.65	23.73	23.70
3	QPSK	8	4	23.50	23.69	23.61
3	QPSK	8	7	23.61	23.62	23.62
3	QPSK	15	0	23.67	23.65	23.54
3	16QAM	1	0	23.42	23.59	23.37
3	16QAM	1	8	23.45	23.48	23.40
3	16QAM	1	14	23.41	23.45	23.28
3	16QAM	8	0	22.58	22.69	22.56
3	16QAM	8	4	22.50	22.60	22.48
3	16QAM	8	7	22.55	22.64	22.58
3	16QAM	15	0	22.64	22.68	22.63
3	64QAM	1	0	22.47	22.56	22.33
3	64QAM	1	8	22.43	22.56	22.59
3	64QAM	1	14	22.56	22.58	22.40
3	64QAM	8	0	21.52	21.67	21.71
3	64QAM	8	4	21.40	21.60	21.50
3	64QAM	8	7	21.57	21.60	21.57
3	64QAM	15	0	21.53	21.59	21.60
3	256QAM	1	0	19.80	19.86	19.71
3	256QAM	1	8	19.58	19.67	19.68
3	256QAM	1	14	19.69	19.87	19.67



3	256QAM	8	0	19.58	19.74	19.45
3	256QAM	8	4	19.51	19.69	19.54
3	256QAM	8	7	19.48	19.61	19.54
3	256QAM	15	0	19.61	19.61	19.59
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	24.81	24.84	24.62
1.4	QPSK	1	3	24.62	24.73	24.61
1.4	QPSK	1	5	24.58	24.82	24.75
1.4	QPSK	3	0	24.76	24.77	24.74
1.4	QPSK	3	1	24.68	24.69	24.62
1.4	QPSK	3	3	24.63	24.81	24.74
1.4	QPSK	6	0	23.72	23.75	23.66
1.4	16QAM	1	0	23.48	23.70	23.56
1.4	16QAM	1	3	23.60	23.70	23.53
1.4	16QAM	1	5	23.64	23.73	23.47
1.4	16QAM	3	0	23.42	23.56	23.41
1.4	16QAM	3	1	23.39	23.49	23.41
1.4	16QAM	3	3	23.45	23.48	23.30
1.4	16QAM	6	0	22.57	22.69	22.58
1.4	64QAM	1	0	22.56	22.60	22.49
1.4	64QAM	1	3	22.51	22.69	22.58
1.4	64QAM	1	5	22.65	22.68	22.60
1.4	64QAM	3	0	22.51	22.58	22.41
1.4	64QAM	3	1	22.43	22.60	22.58
1.4	64QAM	3	3	22.47	22.61	22.46
1.4	64QAM	6	0	21.61	21.73	21.69
1.4	256QAM	1	0	19.71	19.84	19.67
1.4	256QAM	1	3	19.65	19.66	19.75
1.4	256QAM	1	5	19.61	19.81	19.76
1.4	256QAM	3	0	19.66	19.77	19.51
1.4	256QAM	3	1	19.49	19.67	19.54
1.4	256QAM	3	3	19.54	19.63	19.50
1.4	256QAM	6	0	19.57	19.64	19.59



LTE Band 5 - Ant.0:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	25.28	25.35	25.31
10	QPSK	1	25	25.21	25.27	25.18
10	QPSK	1	49	25.19	25.33	25.29
10	QPSK	25	0	24.15	24.28	24.22
10	QPSK	25	12	24.10	24.23	24.12
10	QPSK	25	25	24.20	24.25	24.18
10	QPSK	50	0	24.08	24.19	24.15
10	16QAM	1	0	24.00	24.14	24.01
10	16QAM	1	25	24.01	24.10	24.00
10	16QAM	1	49	23.97	24.05	23.94
10	16QAM	25	0	23.16	23.26	23.22
10	16QAM	25	12	23.10	23.22	23.09
10	16QAM	25	25	23.12	23.20	23.14
10	16QAM	50	0	23.15	23.24	23.17
10	64QAM	1	0	23.40	23.50	23.36
10	64QAM	1	25	23.31	23.43	23.40
10	64QAM	1	49	23.44	23.49	23.38
10	64QAM	25	0	22.16	22.25	22.22
10	64QAM	25	12	22.07	22.19	22.08
10	64QAM	25	25	22.15	22.23	22.09
10	64QAM	50	0	22.13	22.25	22.17
10	256QAM	1	0	20.34	20.44	20.31
10	256QAM	1	25	20.26	20.29	20.24
10	256QAM	1	49	20.28	20.38	20.29
10	256QAM	25	0	20.17	20.25	20.12
10	256QAM	25	12	20.12	20.19	20.13
10	256QAM	25	25	20.05	20.16	20.12
10	256QAM	50	0	20.11	20.21	20.16
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	25.15	25.27	25.22
5	QPSK	1	12	25.17	25.14	25.15
5	QPSK	1	24	25.05	25.29	25.20
5	QPSK	12	0	24.11	24.23	24.18
5	QPSK	12	7	24.07	24.16	24.04
5	QPSK	12	13	24.16	24.18	24.14
5	QPSK	25	0	23.95	24.15	24.01
5	16QAM	1	0	23.96	24.00	23.87
5	16QAM	1	12	23.87	24.04	23.89
5	16QAM	1	24	23.87	23.93	23.90
5	16QAM	12	0	23.12	23.22	23.13
5	16QAM	12	7	22.99	23.10	22.98
5	16QAM	12	13	23.00	23.07	23.06
5	16QAM	25	0	23.12	23.18	23.02



5	64QAM	1	0	23.35	23.45	23.24
5	64QAM	1	12	23.18	23.30	23.28
5	64QAM	1	24	23.34	23.39	23.31
5	64QAM	12	0	22.03	22.10	22.09
5	64QAM	12	7	22.04	22.14	22.00
5	64QAM	12	13	22.03	22.15	21.97
5	64QAM	25	0	22.10	22.21	22.09
5	256QAM	1	0	20.21	20.40	20.27
5	256QAM	1	12	20.11	20.25	20.18
5	256QAM	1	24	20.19	20.32	20.25
5	256QAM	12	0	20.08	20.15	20.03
5	256QAM	12	7	20.06	20.15	20.06
5	256QAM	12	13	19.99	20.12	20.08
5	256QAM	25	0	20.07	20.18	20.12
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	25.13	25.28	25.21
3	QPSK	1	8	25.15	25.22	25.10
3	QPSK	1	14	25.08	25.22	25.18
3	QPSK	8	0	24.04	24.16	24.12
3	QPSK	8	4	23.96	24.16	24.02
3	QPSK	8	7	24.10	24.15	24.11
3	QPSK	15	0	24.00	24.08	24.11
3	16QAM	1	0	23.92	24.04	23.97
3	16QAM	1	8	23.98	23.96	23.87
3	16QAM	1	14	23.91	23.96	23.88
3	16QAM	8	0	23.11	23.19	23.17
3	16QAM	8	4	23.04	23.19	23.03
3	16QAM	8	7	23.03	23.09	23.06
3	16QAM	15	0	23.03	23.11	23.06
3	64QAM	1	0	23.27	23.44	23.32
3	64QAM	1	8	23.22	23.38	23.32
3	64QAM	1	14	23.31	23.34	23.23
3	64QAM	8	0	22.02	22.22	22.18
3	64QAM	8	4	22.00	22.15	22.02
3	64QAM	8	7	22.11	22.09	21.97
3	64QAM	15	0	22.06	22.15	22.12
3	256QAM	1	0	20.29	20.33	20.16
3	256QAM	1	8	20.18	20.19	20.17
3	256QAM	1	14	20.16	20.35	20.25
3	256QAM	8	0	20.13	20.12	20.00
3	256QAM	8	4	20.00	20.10	19.98
3	256QAM	8	7	19.95	20.05	19.98
3	256QAM	15	0	20.01	20.15	20.04
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	25.23	25.29	25.18
1.4	QPSK	1	3	25.13	25.21	25.04
1.4	QPSK	1	5	25.16	25.27	25.24
1.4	QPSK	3	0	25.22	25.23	25.20



1.4	QPSK	3	1	25.17	25.24	25.15
1.4	QPSK	3	3	25.05	25.26	25.25
1.4	QPSK	6	0	24.06	24.14	24.17
1.4	16QAM	1	0	23.95	24.10	24.01
1.4	16QAM	1	3	24.15	24.13	24.11
1.4	16QAM	1	5	23.99	24.13	24.05
1.4	16QAM	3	0	23.89	24.02	23.93
1.4	16QAM	3	1	23.89	24.00	23.92
1.4	16QAM	3	3	23.84	24.01	23.83
1.4	16QAM	6	0	23.12	23.13	23.14
1.4	64QAM	1	0	22.96	23.18	22.96
1.4	64QAM	1	3	22.97	23.10	23.10
1.4	64QAM	1	5	23.12	23.09	23.12
1.4	64QAM	3	0	23.26	23.36	23.31
1.4	64QAM	3	1	23.22	23.35	23.36
1.4	64QAM	3	3	23.31	23.35	23.23
1.4	64QAM	6	0	22.04	22.22	22.07
1.4	256QAM	1	0	20.21	20.40	20.16
1.4	256QAM	1	3	20.13	20.21	20.17
1.4	256QAM	1	5	20.16	20.34	20.16
1.4	256QAM	3	0	20.03	20.22	19.98
1.4	256QAM	3	1	20.06	20.16	20.00
1.4	256QAM	3	3	19.98	20.04	20.05
1.4	256QAM	6	0	19.96	20.13	20.03



LTE Band 66 - Ant.2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	24.89	24.95	24.87
20	QPSK	1	49	24.73	24.82	24.72
20	QPSK	1	99	24.76	24.93	24.80
20	QPSK	50	0	23.73	23.89	23.75
20	QPSK	50	24	23.66	23.77	23.62
20	QPSK	50	50	23.71	23.84	23.72
20	QPSK	100	0	23.73	23.82	23.78
20	16QAM	1	0	23.57	23.71	23.55
20	16QAM	1	49	23.60	23.60	23.60
20	16QAM	1	99	23.55	23.66	23.50
20	16QAM	50	0	22.71	22.81	22.80
20	16QAM	50	24	22.68	22.76	22.68
20	16QAM	50	50	22.73	22.77	22.69
20	16QAM	100	0	22.70	22.77	22.77
20	64QAM	1	0	22.58	22.67	22.57
20	64QAM	1	49	22.55	22.68	22.64
20	64QAM	1	99	22.62	22.66	22.59
20	64QAM	50	0	21.72	21.75	21.74
20	64QAM	50	24	21.68	21.77	21.61
20	64QAM	50	50	21.70	21.85	21.60
20	64QAM	100	0	21.68	21.83	21.68
20	256QAM	1	0	19.94	19.95	19.82
20	256QAM	1	49	19.78	19.89	19.79
20	256QAM	1	99	19.80	19.94	19.82
20	256QAM	50	0	19.67	19.82	19.64
20	256QAM	50	24	19.65	19.70	19.74
20	256QAM	50	50	19.61	19.76	19.64
20	256QAM	100	0	19.63	19.77	19.72
Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	24.74	24.88	24.81
15	QPSK	1	37	24.59	24.76	24.61
15	QPSK	1	74	24.62	24.86	24.67
15	QPSK	36	0	23.58	23.85	23.66
15	QPSK	36	20	23.55	23.63	23.52
15	QPSK	36	39	23.64	23.72	23.57
15	QPSK	75	0	23.63	23.74	23.65
15	16QAM	1	0	23.47	23.61	23.43
15	16QAM	1	37	23.47	23.55	23.50
15	16QAM	1	74	23.44	23.62	23.41
15	16QAM	36	0	22.64	22.72	22.76
15	16QAM	36	20	22.54	22.69	22.60
15	16QAM	36	39	22.65	22.72	22.65
15	16QAM	75	0	22.63	22.74	22.66



15	64QAM	1	0	22.45	22.63	22.46
15	64QAM	1	37	22.41	22.62	22.54
15	64QAM	1	74	22.54	22.53	22.52
15	64QAM	36	0	21.58	21.61	21.70
15	64QAM	36	20	21.64	21.74	21.53
15	64QAM	36	39	21.59	21.75	21.46
15	64QAM	75	0	21.61	21.79	21.64
15	256QAM	1	0	19.85	19.90	19.70
15	256QAM	1	37	19.74	19.76	19.72
15	256QAM	1	74	19.74	19.80	19.72
15	256QAM	36	0	19.57	19.71	19.51
15	256QAM	36	20	19.52	19.56	19.63
15	256QAM	36	39	19.52	19.63	19.57
15	256QAM	75	0	19.53	19.71	19.68
Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	24.81	24.86	24.75
10	QPSK	1	25	24.62	24.72	24.63
10	QPSK	1	49	24.62	24.82	24.73
10	QPSK	25	0	23.69	23.79	23.60
10	QPSK	25	12	23.55	23.64	23.54
10	QPSK	25	25	23.64	23.78	23.65
10	QPSK	50	0	23.63	23.74	23.72
10	16QAM	1	0	23.44	23.61	23.44
10	16QAM	1	25	23.56	23.46	23.47
10	16QAM	1	49	23.44	23.56	23.41
10	16QAM	25	0	22.56	22.70	22.74
10	16QAM	25	12	22.55	22.72	22.63
10	16QAM	25	25	22.67	22.71	22.64
10	16QAM	50	0	22.65	22.65	22.65
10	64QAM	1	0	22.54	22.57	22.46
10	64QAM	1	25	22.51	22.56	22.53
10	64QAM	1	49	22.55	22.59	22.52
10	64QAM	25	0	21.59	21.60	21.60
10	64QAM	25	12	21.60	21.65	21.47
10	64QAM	25	25	21.61	21.80	21.46
10	64QAM	50	0	21.60	21.76	21.60
10	256QAM	1	0	19.88	19.83	19.77
10	256QAM	1	25	19.69	19.75	19.71
10	256QAM	1	49	19.73	19.79	19.73
10	256QAM	25	0	19.56	19.74	19.56
10	256QAM	25	12	19.52	19.63	19.70
10	256QAM	25	25	19.50	19.71	19.49
10	256QAM	50	0	19.49	19.68	19.62
Channel				131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	24.86	24.91	24.81
5	QPSK	1	12	24.58	24.72	24.65
5	QPSK	1	24	24.62	24.87	24.69
5	QPSK	12	0	23.66	23.77	23.68



5	QPSK	12	7	23.58	23.67	23.54
5	QPSK	12	13	23.62	23.81	23.58
5	QPSK	25	0	23.70	23.78	23.66
5	16QAM	1	0	23.54	23.59	23.45
5	16QAM	1	12	23.56	23.57	23.55
5	16QAM	1	24	23.44	23.62	23.35
5	16QAM	12	0	22.66	22.67	22.69
5	16QAM	12	7	22.60	22.67	22.63
5	16QAM	12	13	22.58	22.71	22.55
5	16QAM	25	0	22.67	22.74	22.68
5	64QAM	1	0	22.46	22.52	22.43
5	64QAM	1	12	22.40	22.61	22.53
5	64QAM	1	24	22.49	22.53	22.46
5	64QAM	12	0	21.64	21.70	21.68
5	64QAM	12	7	21.58	21.71	21.57
5	64QAM	12	13	21.58	21.77	21.55
5	64QAM	25	0	21.53	21.72	21.54
5	256QAM	1	0	19.85	19.83	19.75
5	256QAM	1	12	19.66	19.81	19.70
5	256QAM	1	24	19.70	19.83	19.68
5	256QAM	12	0	19.58	19.73	19.60
5	256QAM	12	7	19.51	19.58	19.63
5	256QAM	12	13	19.54	19.72	19.61
5	256QAM	25	0	19.54	19.72	19.68
Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	24.76	24.90	24.80
3	QPSK	1	8	24.62	24.73	24.64
3	QPSK	1	14	24.68	24.78	24.71
3	QPSK	8	0	23.65	23.74	23.69
3	QPSK	8	4	23.61	23.66	23.48
3	QPSK	8	7	23.67	23.72	23.66
3	QPSK	15	0	23.61	23.76	23.64
3	16QAM	1	0	23.49	23.61	23.50
3	16QAM	1	8	23.53	23.57	23.56
3	16QAM	1	14	23.50	23.56	23.44
3	16QAM	8	0	22.57	22.77	22.72
3	16QAM	8	4	22.55	22.70	22.55
3	16QAM	8	7	22.69	22.68	22.58
3	16QAM	15	0	22.63	22.72	22.64
3	64QAM	1	0	22.44	22.54	22.54
3	64QAM	1	8	22.42	22.58	22.57
3	64QAM	1	14	22.52	22.58	22.51
3	64QAM	8	0	21.58	21.62	21.60
3	64QAM	8	4	21.57	21.69	21.54
3	64QAM	8	7	21.58	21.78	21.56
3	64QAM	15	0	21.55	21.73	21.63
3	256QAM	1	0	19.84	19.89	19.72
3	256QAM	1	8	19.74	19.84	19.75
3	256QAM	1	14	19.74	19.80	19.73



3	256QAM	8	0	19.63	19.73	19.51
3	256QAM	8	4	19.56	19.63	19.69
3	256QAM	8	7	19.52	19.66	19.58
3	256QAM	15	0	19.49	19.63	19.68
Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	24.77	24.86	24.79
1.4	QPSK	1	3	24.70	24.76	24.65
1.4	QPSK	1	5	24.62	24.87	24.67
1.4	QPSK	3	0	24.78	24.84	24.77
1.4	QPSK	3	1	24.60	24.71	24.60
1.4	QPSK	3	3	24.65	24.88	24.73
1.4	QPSK	6	0	23.70	23.83	23.61
1.4	16QAM	1	0	23.61	23.65	23.55
1.4	16QAM	1	3	23.62	23.73	23.60
1.4	16QAM	1	5	23.66	23.77	23.66
1.4	16QAM	3	0	23.42	23.58	23.43
1.4	16QAM	3	1	23.51	23.54	23.54
1.4	16QAM	3	3	23.50	23.61	23.35
1.4	16QAM	6	0	22.61	22.76	22.65
1.4	64QAM	1	0	22.56	22.65	22.57
1.4	64QAM	1	3	22.69	22.74	22.59
1.4	64QAM	1	5	22.59	22.62	22.64
1.4	64QAM	3	0	22.47	22.61	22.50
1.4	64QAM	3	1	22.41	22.56	22.59
1.4	64QAM	3	3	22.56	22.58	22.54
1.4	64QAM	6	0	21.62	21.68	21.47
1.4	256QAM	1	0	19.79	19.85	19.70
1.4	256QAM	1	3	19.74	19.84	19.67
1.4	256QAM	1	5	19.72	19.79	19.76
1.4	256QAM	3	0	19.53	19.76	19.54
1.4	256QAM	3	1	19.52	19.57	19.61
1.4	256QAM	3	3	19.48	19.70	19.60
1.4	256QAM	6	0	19.58	19.64	19.66



ERP/EIRP

LTE Band 2 (GT - LC = -2.43 dB) QPSK - Ant. 1									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	24.22	24.25	24.27	24.20	24.31	24.19	24.17	24.29	24.18
Conducted Power (Watts)	0.2642	0.2661	0.2673	0.2630	0.2698	0.2624	0.2612	0.2685	0.2618
EIRP(dBm)	21.79	21.82	21.84	21.77	21.88	21.76	21.74	21.86	21.75
EIRP(Watts)	0.1510	0.1521	0.1528	0.1503	0.1542	0.1500	0.1493	0.1535	0.1496

LTE Band 2 (GT - LC = -2.43 dB) QPSK - Ant. 1									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	24.23	24.26	24.19	24.25	24.30	24.20	24.29	24.35	24.33
Conducted Power (Watts)	0.2649	0.2667	0.2624	0.2661	0.2692	0.2630	0.2685	0.2723	0.2710
EIRP(dBm)	21.80	21.83	21.76	21.82	21.87	21.77	21.86	21.92	21.90
EIRP(Watts)	0.1514	0.1524	0.1500	0.1521	0.1538	0.1503	0.1535	0.1556	0.1549



LTE Band 2 (GT - LC = -2.43 dB) 16QAM - Ant. 1									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	22.96	23.13	23.01	22.96	23.05	22.91	22.98	23.02	22.85
Conducted Power (Watts)	0.1977	0.2056	0.2000	0.1977	0.2018	0.1954	0.1986	0.2004	0.1928
EIRP(dBm)	20.53	20.70	20.58	20.53	20.62	20.48	20.55	20.59	20.42
EIRP(Watts)	0.1130	0.1175	0.1143	0.1130	0.1153	0.1117	0.1135	0.1146	0.1102

LTE Band 2 (GT - LC = -2.43 dB) 16QAM - Ant. 1									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	22.93	23.00	22.97	22.93	23.06	22.95	23.01	23.10	23.01
Conducted Power (Watts)	0.1963	0.1995	0.1982	0.1963	0.2023	0.1972	0.2000	0.2042	0.2000
EIRP(dBm)	20.50	20.57	20.54	20.50	20.63	20.52	20.58	20.67	20.58
EIRP(Watts)	0.1122	0.1140	0.1132	0.1122	0.1156	0.1127	0.1143	0.1167	0.1143



LTE Band 2 (GT - LC = -2.43 dB) 64QAM - Ant. 1									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	22.39	22.53	22.32	22.34	22.50	22.30	22.29	22.48	22.32
Conducted Power (Watts)	0.1734	0.1791	0.1706	0.1714	0.1778	0.1698	0.1694	0.1770	0.1706
EIRP(dBm)	19.96	20.10	19.89	19.91	20.07	19.87	19.86	20.05	19.89
EIRP(Watts)	0.0991	0.1023	0.0975	0.0979	0.1016	0.0971	0.0968	0.1012	0.0975

LTE Band 2 (GT - LC = -2.43 dB) 64QAM - Ant. 1									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	22.32	22.44	22.27	22.37	22.49	22.24	22.44	22.57	22.39
Conducted Power (Watts)	0.1706	0.1754	0.1687	0.1726	0.1774	0.1675	0.1754	0.1807	0.1734
EIRP(dBm)	19.89	20.01	19.84	19.94	20.06	19.81	20.01	20.14	19.96
EIRP(Watts)	0.0975	0.1002	0.0964	0.0986	0.1014	0.0957	0.1002	0.1033	0.0991



LTE Band 2 (GT - LC = -2.43 dB) 256QAM - Ant. 1									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	19.28	19.32	19.14	19.31	19.33	19.27	19.20	19.41	19.21
Conducted Power (Watts)	0.0847	0.0855	0.0820	0.0853	0.0857	0.0845	0.0832	0.0873	0.0834
EIRP(dBm)	16.85	16.89	16.71	16.88	16.90	16.84	16.77	16.98	16.78
EIRP(Watts)	0.0484	0.0489	0.0469	0.0488	0.0490	0.0483	0.0475	0.0499	0.0476

LTE Band 2 (GT - LC = -2.43 dB) 256QAM - Ant. 1									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	19.19	19.37	19.14	19.21	19.38	19.22	19.33	19.44	19.28
Conducted Power (Watts)	0.0830	0.0865	0.0820	0.0834	0.0867	0.0836	0.0857	0.0879	0.0847
EIRP(dBm)	16.76	16.94	16.71	16.78	16.95	16.79	16.90	17.01	16.85
EIRP(Watts)	0.0474	0.0494	0.0469	0.0476	0.0495	0.0478	0.0490	0.0502	0.0484



LTE Band 5 (GT - LC = -3.60 dB) QPSK - Ant. 0									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	25.23	25.29	25.18	25.13	25.28	25.21	25.05	25.29	25.20
Conducted Power (Watts)	0.3334	0.3381	0.3296	0.3258	0.3373	0.3319	0.3199	0.3381	0.3311
ERP(dBm)	19.48	19.54	19.43	19.38	19.53	19.46	19.30	19.54	19.45
ERP(Watts)	0.0887	0.0899	0.0877	0.0867	0.0897	0.0883	0.0851	0.0899	0.0881

LTE Band 5 (GT - LC = -3.60 dB) QPSK - Ant. 0			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	25.28	25.35	25.31
Conducted Power (Watts)	0.3373	0.3428	0.3396
ERP(dBm)	19.53	19.60	19.56
ERP(Watts)	0.0897	0.0912	0.0904



LTE Band 5 (GT - LC = -3.60 dB) 16QAM - Ant. 0									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	24.15	24.13	24.11	23.92	24.04	23.97	23.87	24.04	23.89
Conducted Power (Watts)	0.2600	0.2588	0.2576	0.2466	0.2535	0.2495	0.2438	0.2535	0.2449
ERP(dBm)	18.40	18.38	18.36	18.17	18.29	18.22	18.12	18.29	18.14
ERP(Watts)	0.0692	0.0689	0.0685	0.0656	0.0675	0.0664	0.0649	0.0675	0.0652

LTE Band 5 (GT - LC = -3.60 dB) 16QAM - Ant. 0			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	24.00	24.14	24.01
Conducted Power (Watts)	0.2512	0.2594	0.2518
ERP(dBm)	18.25	18.39	18.26
ERP(Watts)	0.0668	0.0690	0.0670



LTE Band 5 (GT - LC = -3.60 dB) 64QAM - Ant. 0									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	23.26	23.36	23.31	23.27	23.44	23.32	23.35	23.45	23.24
Conducted Power (Watts)	0.2118	0.2168	0.2143	0.2123	0.2208	0.2148	0.2163	0.2213	0.2109
ERP(dBm)	17.51	17.61	17.56	17.52	17.69	17.57	17.60	17.70	17.49
ERP(Watts)	0.0564	0.0577	0.0570	0.0565	0.0587	0.0571	0.0575	0.0589	0.0561

LTE Band 5 (GT - LC = -3.60 dB) 64QAM - Ant. 0			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	23.40	23.50	23.36
Conducted Power (Watts)	0.2188	0.2239	0.2168
ERP(dBm)	17.65	17.75	17.61
ERP(Watts)	0.0582	0.0596	0.0577



LTE Band 5 (GT - LC = -3.60 dB) 256QAM - Ant. 0									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	20.21	20.40	20.16	20.16	20.35	20.25	20.21	20.40	20.27
Conducted Power (Watts)	0.1050	0.1096	0.1038	0.1038	0.1084	0.1059	0.1050	0.1096	0.1064
ERP(dBm)	14.46	14.65	14.41	14.41	14.60	14.50	14.46	14.65	14.52
ERP(Watts)	0.0279	0.0292	0.0276	0.0276	0.0288	0.0282	0.0279	0.0292	0.0283

LTE Band 5 (GT - LC = -3.60 dB) 256QAM - Ant. 0			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	20.34	20.44	20.31
Conducted Power (Watts)	0.1081	0.1107	0.1074
ERP(dBm)	14.59	14.69	14.56
ERP(Watts)	0.0288	0.0294	0.0286



LTE Band 66 (GT - LC = -1.20 dB) QPSK - Ant. 2									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	24.65	24.88	24.73	24.76	24.90	24.80	24.86	24.91	24.81
Conducted Power (Watts)	0.2917	0.3076	0.2972	0.2992	0.3090	0.3020	0.3062	0.3097	0.3027
EIRP(dBm)	23.45	23.68	23.53	23.56	23.70	23.60	23.66	23.71	23.61
EIRP(Watts)	0.2213	0.2333	0.2254	0.2270	0.2344	0.2291	0.2323	0.2350	0.2296

LTE Band 66 (GT - LC = -1.20 dB) QPSK - Ant. 2									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	24.81	24.86	24.75	24.74	24.88	24.81	24.89	24.95	24.87
Conducted Power (Watts)	0.3027	0.3062	0.2985	0.2979	0.3076	0.3027	0.3083	0.3126	0.3069
EIRP(dBm)	23.61	23.66	23.55	23.54	23.68	23.61	23.69	23.75	23.67
EIRP(Watts)	0.2296	0.2323	0.2265	0.2259	0.2333	0.2296	0.2339	0.2371	0.2328



LTE Band 66 (GT - LC = -1.20 dB) 16QAM - Ant. 2									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	23.66	23.77	23.66	23.49	23.61	23.50	23.44	23.62	23.35
Conducted Power (Watts)	0.2323	0.2382	0.2323	0.2234	0.2296	0.2239	0.2208	0.2301	0.2163
EIRP(dBm)	22.46	22.57	22.46	22.29	22.41	22.30	22.24	22.42	22.15
EIRP(Watts)	0.1762	0.1807	0.1762	0.1694	0.1742	0.1698	0.1675	0.1746	0.1641

LTE Band 66 (GT - LC = -1.20 dB) 16QAM - Ant. 2									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	23.44	23.61	23.44	23.44	23.62	23.41	23.57	23.71	23.55
Conducted Power (Watts)	0.2208	0.2296	0.2208	0.2208	0.2301	0.2193	0.2275	0.2350	0.2265
EIRP(dBm)	22.24	22.41	22.24	22.24	22.42	22.21	22.37	22.51	22.35
EIRP(Watts)	0.1675	0.1742	0.1675	0.1675	0.1746	0.1663	0.1726	0.1782	0.1718



LTE Band 66 (GT - LC = -1.20 dB) 64QAM - Ant. 2									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	22.69	22.74	22.59	22.42	22.58	22.57	22.40	22.61	22.53
Conducted Power (Watts)	0.1858	0.1879	0.1816	0.1746	0.1811	0.1807	0.1738	0.1824	0.1791
EIRP(dBm)	21.49	21.54	21.39	21.22	21.38	21.37	21.20	21.41	21.33
EIRP(Watts)	0.1409	0.1426	0.1377	0.1324	0.1374	0.1371	0.1318	0.1384	0.1358

LTE Band 66 (GT - LC = -1.20 dB) 64QAM - Ant. 2									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	22.55	22.59	22.52	22.45	22.63	22.46	22.55	22.68	22.64
Conducted Power (Watts)	0.1799	0.1816	0.1786	0.1758	0.1832	0.1762	0.1799	0.1854	0.1837
EIRP(dBm)	21.35	21.39	21.32	21.25	21.43	21.26	21.35	21.48	21.44
EIRP(Watts)	0.1365	0.1377	0.1355	0.1334	0.1390	0.1337	0.1365	0.1406	0.1393



LTE Band 66 (GT - LC = -1.20 dB) 256QAM - Ant. 2									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
(MHz)									
Conducted Power (dBm)	19.79	19.85	19.70	19.84	19.89	19.72	19.85	19.83	19.75
Conducted Power (Watts)	0.0953	0.0966	0.0933	0.0964	0.0975	0.0938	0.0966	0.0962	0.0944
EIRP(dBm)	18.59	18.65	18.50	18.64	18.69	18.52	18.65	18.63	18.55
EIRP(Watts)	0.0723	0.0733	0.0708	0.0731	0.0740	0.0711	0.0733	0.0729	0.0716

LTE Band 66 (GT - LC = -1.20 dB) 256QAM - Ant. 2									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
(MHz)									
Conducted Power (dBm)	19.88	19.83	19.77	19.85	19.90	19.70	19.94	19.95	19.82
Conducted Power (Watts)	0.0973	0.0962	0.0948	0.0966	0.0977	0.0933	0.0986	0.0989	0.0959
EIRP(dBm)	18.68	18.63	18.57	18.65	18.70	18.50	18.74	18.75	18.62
EIRP(Watts)	0.0738	0.0729	0.0719	0.0733	0.0741	0.0708	0.0748	0.0750	0.0728



CA Power&EIRP

LTE Band 66B - Ant.2:

Combination 10MHz+10MHz (50RB+50RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset			
132022	132121	QPSK	50	0	50	0	100	22.20	0.1259
			1	0	1	49	2	15.83	0.0290
			1	49	1	0	2	24.04	0.1923
		16QAM	50	0	50	0	100	21.19	0.0998
			1	0	1	49	2	16.28	0.0322
			1	49	1	0	2	23.44	0.1675
		64QAM	50	0	50	0	100	21.29	0.1021
			1	0	1	49	2	15.99	0.0301
			1	49	1	0	2	21.50	0.1072
		256QAM	50	0	50	0	100	19.11	0.0618
			1	0	1	49	2	15.84	0.0291
			1	49	1	0	2	19.52	0.0679
132373	132472	QPSK	50	0	50	0	100	22.09	0.1227
			1	0	1	49	2	15.82	0.0290
			1	49	1	0	2	23.95	0.1884
		16QAM	50	0	50	0	100	21.10	0.0977
			1	0	1	49	2	16.20	0.0316
			1	49	1	0	2	23.32	0.1629
		64QAM	50	0	50	0	100	21.17	0.0993
			1	0	1	49	2	15.89	0.0294
			1	49	1	0	2	21.48	0.1067
		256QAM	50	0	50	0	100	19.11	0.0618
			1	0	1	49	2	15.67	0.0280
			1	49	1	0	2	19.36	0.0655
132523	132622	QPSK	50	0	50	0	100	22.03	0.1211
			1	0	1	49	2	15.82	0.0290
			1	49	1	0	2	23.95	0.1884
		16QAM	50	0	50	0	100	21.01	0.0957
			1	0	1	49	2	16.10	0.0309
			1	49	1	0	2	23.27	0.1611
		64QAM	50	0	50	0	100	21.21	0.1002
			1	0	1	49	2	15.86	0.0292
			1	49	1	0	2	21.41	0.1050
		256QAM	50	0	50	0	100	19.05	0.0610
			1	0	1	49	2	15.77	0.0286
			1	49	1	0	2	19.26	0.0640



Combination 15MHz+5MHz (75RB+25RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	75	0	25	0	100	22.08	0.1225
			1	0	1	24	2	15.74	0.0284
			1	74	1	0	2	23.94	0.1879
		16QAM	75	0	25	0	100	21.04	0.0964
			1	0	1	24	2	16.17	0.0314
			1	74	1	0	2	23.35	0.1641
		64QAM	75	0	25	0	100	21.17	0.0993
			1	0	1	24	2	15.86	0.0292
			1	74	1	0	2	21.35	0.1035
		256QAM	75	0	25	0	100	19.01	0.0604
			1	0	1	24	2	15.70	0.0282
			1	74	1	0	2	19.46	0.0670
132398	132491	QPSK	75	0	25	0	100	22.03	0.1211
			1	0	1	24	2	15.71	0.0282
			1	74	1	0	2	23.90	0.1862
		16QAM	75	0	25	0	100	20.99	0.0953
			1	0	1	24	2	16.14	0.0312
			1	74	1	0	2	23.24	0.1600
		64QAM	75	0	25	0	100	21.06	0.0968
			1	0	1	24	2	15.77	0.0286
			1	74	1	0	2	21.42	0.1052
		256QAM	75	0	25	0	100	19.04	0.0608
			1	0	1	24	2	15.58	0.0274
			1	74	1	0	2	19.26	0.0640
132549	132642	QPSK	75	0	25	0	100	21.96	0.1191
			1	0	1	24	2	15.76	0.0286
			1	74	1	0	2	23.88	0.1854
		16QAM	75	0	25	0	100	20.93	0.0940
			1	0	1	24	2	16.00	0.0302
			1	74	1	0	2	23.14	0.1563
		64QAM	75	0	25	0	100	21.10	0.0977
			1	0	1	24	2	15.74	0.0284
			1	74	1	0	2	21.27	0.1016
		256QAM	75	0	25	0	100	18.94	0.0594
			1	0	1	24	2	15.70	0.0282
			1	74	1	0	2	19.19	0.0630



Combination 5MHz+15MHz (25RB+75RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset			
132002	132095	QPSK	25	0	75	0	100	21.98	0.1197
			1	0	1	74	2	15.61	0.0276
			1	24	1	0	2	23.89	0.1858
		16QAM	25	0	75	0	100	20.98	0.0951
			1	0	1	74	2	16.03	0.0304
			1	24	1	0	2	23.20	0.1585
		64QAM	25	0	75	0	100	21.06	0.0968
			1	0	1	74	2	15.79	0.0288
			1	24	1	0	2	21.24	0.1009
		256QAM	25	0	75	0	100	18.87	0.0585
			1	0	1	74	2	15.64	0.0278
			1	24	1	0	2	19.34	0.0652
132353	132446	QPSK	25	0	75	0	100	21.95	0.1189
			1	0	1	74	2	15.56	0.0273
			1	24	1	0	2	23.77	0.1807
		16QAM	25	0	75	0	100	20.88	0.0929
			1	0	1	74	2	16.03	0.0304
			1	24	1	0	2	23.10	0.1549
		64QAM	25	0	75	0	100	21.01	0.0957
			1	0	1	74	2	15.66	0.0279
			1	24	1	0	2	21.35	0.1035
		256QAM	25	0	75	0	100	18.93	0.0593
			1	0	1	74	2	15.50	0.0269
			1	24	1	0	2	19.18	0.0628
132504	132597	QPSK	25	0	75	0	100	21.84	0.1159
			1	0	1	74	2	15.62	0.0277
			1	24	1	0	2	23.80	0.1820
		16QAM	25	0	75	0	100	20.84	0.0920
			1	0	1	74	2	15.86	0.0292
			1	24	1	0	2	23.07	0.1538
		64QAM	25	0	75	0	100	20.97	0.0948
			1	0	1	74	2	15.67	0.0280
			1	24	1	0	2	21.14	0.0986
		256QAM	25	0	75	0	100	18.83	0.0579
			1	0	1	74	2	15.62	0.0277
			1	24	1	0	2	19.08	0.0614



Combination 10MHz+5MHz (50RB+25RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset			
132022	132094	QPSK	50	0	25	0	75	21.96	0.1191
			1	0	1	24	2	15.66	0.0279
			1	49	1	0	2	23.84	0.1837
		16QAM	50	0	25	0	75	20.94	0.0942
			1	0	1	24	2	16.03	0.0304
			1	49	1	0	2	23.20	0.1585
		64QAM	50	0	25	0	75	21.12	0.0982
			1	0	1	24	2	15.76	0.0286
			1	49	1	0	2	21.23	0.1007
		256QAM	50	0	25	0	75	18.87	0.0585
			1	0	1	24	2	15.61	0.0276
			1	49	1	0	2	19.37	0.0656
132397	132469	QPSK	50	0	25	0	75	21.89	0.1172
			1	0	1	24	2	15.62	0.0277
			1	49	1	0	2	23.84	0.1837
		16QAM	50	0	25	0	75	20.86	0.0925
			1	0	1	24	2	16.05	0.0305
			1	49	1	0	2	23.17	0.1574
		64QAM	50	0	25	0	75	20.98	0.0951
			1	0	1	24	2	15.68	0.0281
			1	49	1	0	2	21.33	0.1030
		256QAM	50	0	25	0	75	18.91	0.0590
			1	0	1	24	2	15.46	0.0267
			1	49	1	0	2	19.12	0.0619
132572	132644	QPSK	50	0	25	0	75	21.82	0.1153
			1	0	1	24	2	15.69	0.0281
			1	49	1	0	2	23.75	0.1799
		16QAM	50	0	25	0	75	20.86	0.0925
			1	0	1	24	2	15.87	0.0293
			1	49	1	0	2	23.02	0.1521
		64QAM	50	0	25	0	75	20.97	0.0948
			1	0	1	24	2	15.62	0.0277
			1	49	1	0	2	21.15	0.0989
		256QAM	50	0	25	0	75	18.87	0.0585
			1	0	1	24	2	15.63	0.0277
			1	49	1	0	2	19.13	0.0621



Combination 5MHz+10MHz (25RB+50RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset			
132000	132072	QPSK	25	0	50	0	75	21.87	0.1167
			1	0	1	49	2	15.50	0.0269
			1	24	1	0	2	23.75	0.1799
		16QAM	25	0	50	0	75	20.92	0.0938
			1	0	1	49	2	15.89	0.0294
			1	24	1	0	2	23.13	0.1560
		64QAM	25	0	50	0	75	20.99	0.0953
			1	0	1	49	2	15.67	0.0280
			1	24	1	0	2	21.14	0.0986
		256QAM	25	0	50	0	75	18.82	0.0578
			1	0	1	49	2	15.58	0.0274
			1	24	1	0	2	19.24	0.0637
132375	132447	QPSK	25	0	50	0	75	21.85	0.1161
			1	0	1	49	2	15.42	0.0264
			1	24	1	0	2	23.66	0.1762
		16QAM	25	0	50	0	75	20.81	0.0914
			1	0	1	49	2	15.91	0.0296
			1	24	1	0	2	22.95	0.1496
		64QAM	25	0	50	0	75	20.96	0.0946
			1	0	1	49	2	15.59	0.0275
			1	24	1	0	2	21.24	0.1009
		256QAM	25	0	50	0	75	18.81	0.0577
			1	0	1	49	2	15.36	0.0261
			1	24	1	0	2	19.10	0.0617
132550	132622	QPSK	25	0	50	0	75	21.77	0.1140
			1	0	1	49	2	15.47	0.0267
			1	24	1	0	2	23.68	0.1770
		16QAM	25	0	50	0	75	20.75	0.0902
			1	0	1	49	2	15.80	0.0288
			1	24	1	0	2	22.99	0.1510
		64QAM	25	0	50	0	75	20.84	0.0920
			1	0	1	49	2	15.62	0.0277
			1	24	1	0	2	21.00	0.0955
		256QAM	25	0	50	0	75	18.75	0.0569
			1	0	1	49	2	15.49	0.0269
			1	24	1	0	2	18.99	0.0601



Combination 5MHz+5MHz (25RB+25RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset			
131997	132045	QPSK	25	0	25	0	50	21.78	0.1143
			1	0	1	24	2	15.43	0.0265
			1	24	1	0	2	23.68	0.1770
		16QAM	25	0	25	0	50	20.80	0.0912
			1	0	1	24	2	15.82	0.0290
			1	24	1	0	2	23.01	0.1517
		64QAM	25	0	25	0	50	20.87	0.0927
			1	0	1	24	2	15.60	0.0275
			1	24	1	0	2	21.00	0.0955
		256QAM	25	0	25	0	50	18.73	0.0566
			1	0	1	24	2	15.43	0.0265
			1	24	1	0	2	19.19	0.0630
132398	132446	QPSK	25	0	25	0	50	21.70	0.1122
			1	0	1	24	2	15.34	0.0259
			1	24	1	0	2	23.53	0.1710
		16QAM	25	0	25	0	50	20.75	0.0902
			1	0	1	24	2	15.85	0.0292
			1	24	1	0	2	22.84	0.1459
		64QAM	25	0	25	0	50	20.90	0.0933
			1	0	1	24	2	15.49	0.0269
			1	24	1	0	2	21.12	0.0982
		256QAM	25	0	25	0	50	18.74	0.0568
			1	0	1	24	2	15.28	0.0256
			1	24	1	0	2	18.98	0.0600
132599	132647	QPSK	25	0	25	0	50	21.63	0.1104
			1	0	1	24	2	15.37	0.0261
			1	24	1	0	2	23.60	0.1738
		16QAM	25	0	25	0	50	20.64	0.0879
			1	0	1	24	2	15.73	0.0284
			1	24	1	0	2	22.91	0.1483
		64QAM	25	0	25	0	50	20.78	0.0908
			1	0	1	24	2	15.48	0.0268
			1	24	1	0	2	20.95	0.0944
		256QAM	25	0	25	0	50	18.64	0.0555
			1	0	1	24	2	15.37	0.0261
			1	24	1	0	2	18.90	0.0589



LTE Band 66C - Ant.2:

Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	Max	1	0	23.20	0.1585
132323	132520	QPSK	1	Max	1	0	23.32	0.1629
132374	132572	QPSK	1	Max	1	0	23.21	0.1589
132072	132270	16QAM	1	Max	1	0	22.81	0.1449
132323	132520	16QAM	1	Max	1	0	22.91	0.1483
132374	132572	16QAM	1	Max	1	0	22.69	0.1409
132072	132270	64QAM	1	Max	1	0	20.64	0.0879
132323	132520	64QAM	1	Max	1	0	20.83	0.0918
132374	132572	64QAM	1	Max	1	0	20.72	0.0895
132072	132270	256QAM	1	Max	1	0	18.59	0.0548
132323	132520	256QAM	1	Max	1	0	18.70	0.0562
132374	132572	256QAM	1	Max	1	0	18.50	0.0537
Combination 20MHz+15MHz (100RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
132348	132519	QPSK	1	Max	1	0	22.96	0.1500
132348	132519	16QAM	1	Max	1	0	22.92	0.1486
Combination 15MHz+20MHz (75RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
132325	132496	QPSK	1	Max	1	0	22.94	0.1493
132325	132496	16QAM	1	Max	1	0	20.36	0.0824
Combination 15MHz+15MHz (75RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
132347	132497	QPSK	1	Max	1	0	23.36	0.1644
132347	132497	16QAM	1	Max	1	0	22.85	0.1462
Combination 20MHz+10MHz (100RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
132373	132517	QPSK	1	Max	1	0	23.31	0.1626
132373	132517	16QAM	1	Max	1	0	22.87	0.1469
Combination 10MHz+20MHz (50RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
132328	132472	QPSK	1	Max	1	0	23.14	0.1563
132328	132472	16QAM	1	Max	1	0	22.65	0.1396
Combination 15MHz+10MHz (75RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
132373	132493	QPSK	1	Max	1	0	23.24	0.1600
132373	132493	16QAM	1	Max	1	0	22.70	0.1413



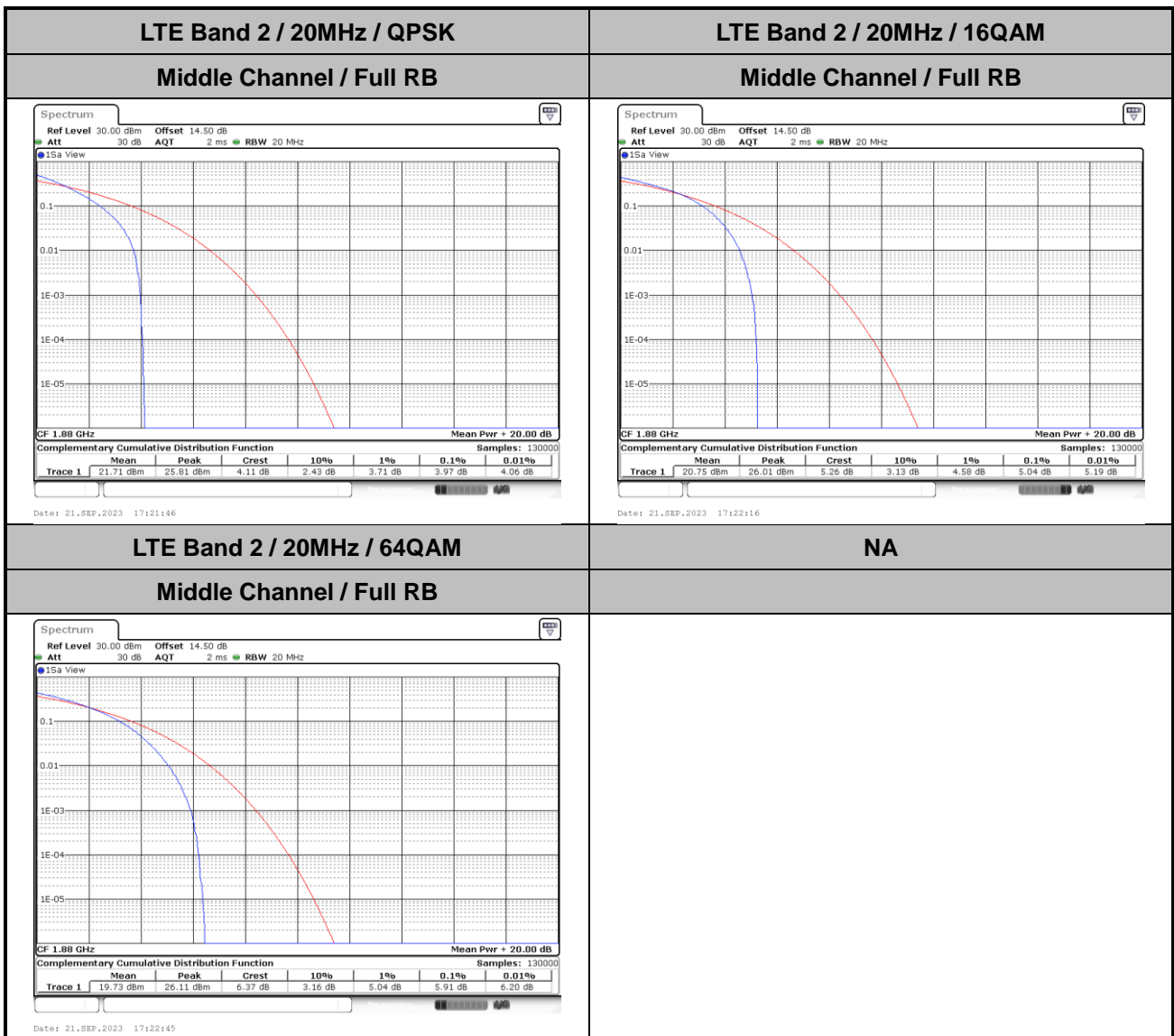
Combination 10MHz+15MHz (50RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
132351	132471	QPSK	1	Max	1	0	23.05	0.1531
132351	132471	16QAM	1	Max	1	0	22.54	0.1361
Combination 20MHz+5MHz (100RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
132397	132514	QPSK	1	Max	1	0	23.09	0.1545
132397	132514	16QAM	1	Max	1	0	22.41	0.1321
Combination 5MHz+20MHz (25RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
132330	132447	QPSK	1	Max	1	0	23.11	0.1552
132330	132447	16QAM	1	Max	1	0	22.48	0.1343



LTE Band 2 (Main PA)

Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	3.97	5.04	5.91	PASS





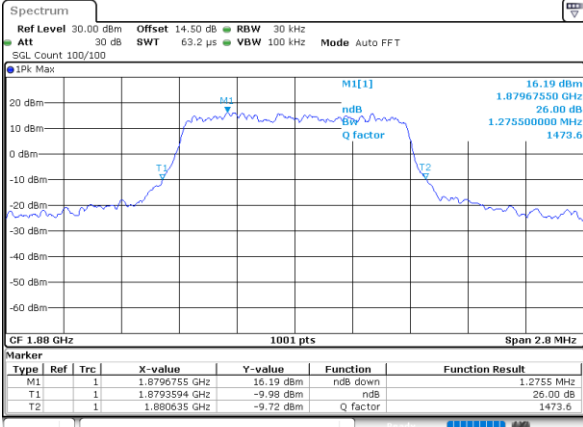
26dB Bandwidth

Mode	LTE Band 2 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.28	1.28	2.95	2.99	4.92	4.83	9.75	9.89	14.54	14.36	18.82	18.90



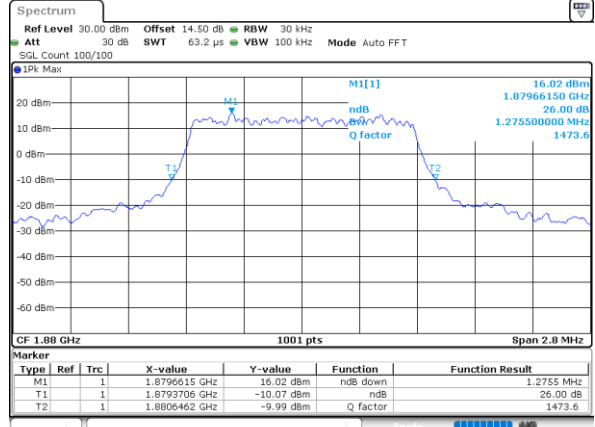
LTE Band 2

Middle Channel / 1.4MHz / QPSK



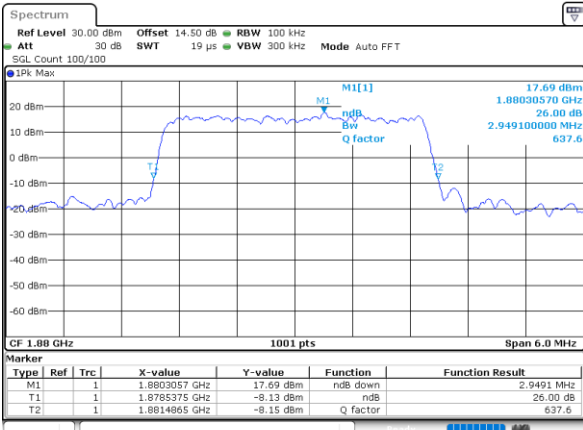
Date: 21_SEP.2023 15:15:42

Middle Channel / 1.4MHz / 16QAM



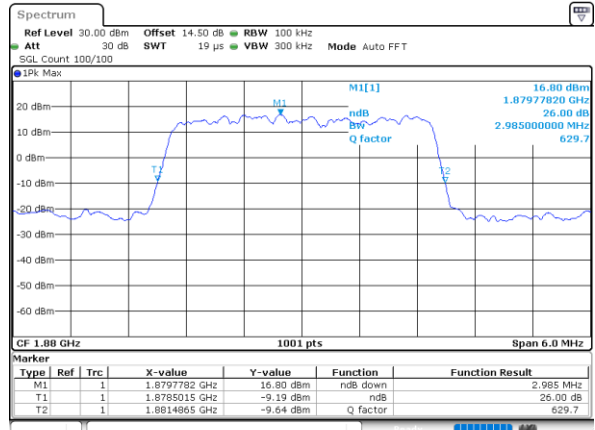
Date: 21_SEP.2023 15:16:27

Middle Channel / 3MHz / QPSK



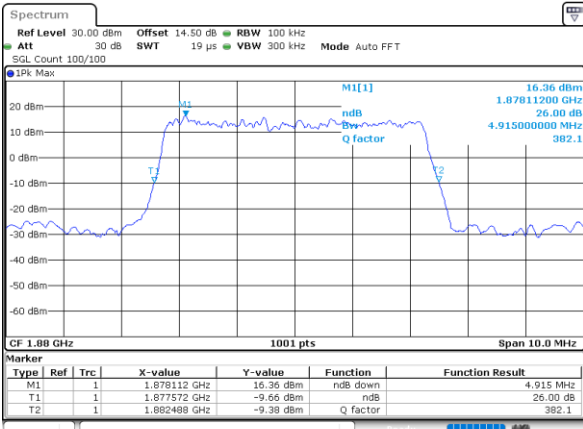
Date: 21_SEP.2023 15:38:00

Middle Channel / 3MHz / 16QAM



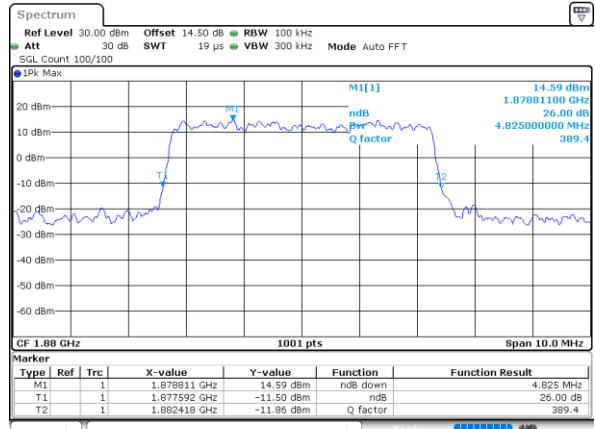
Date: 21_SEP.2023 15:38:43

Middle Channel / 5MHz / QPSK



Date: 21_SEP.2023 16:11:15

Middle Channel / 5MHz / 16QAM

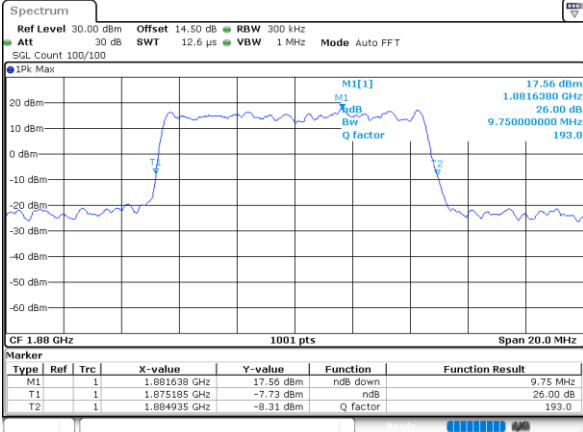


Date: 21_SEP.2023 16:11:57



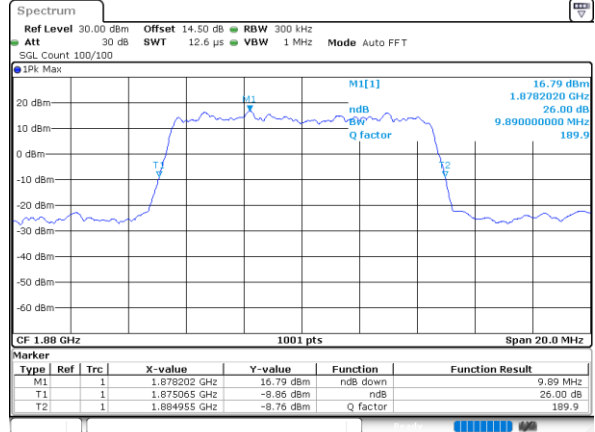
LTE Band 2

Middle Channel / 10MHz / QPSK



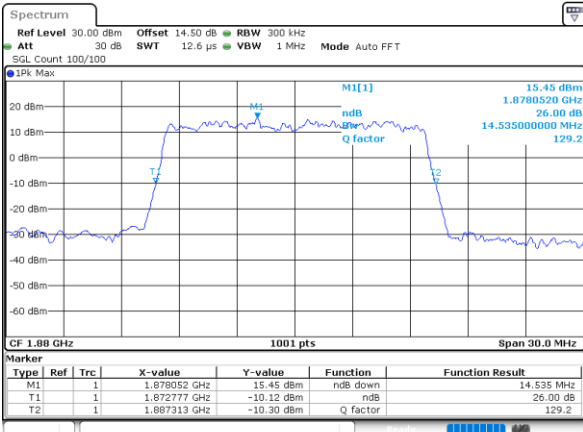
Date: 21.SEP.2023 16:44:50

Middle Channel / 10MHz / 16QAM



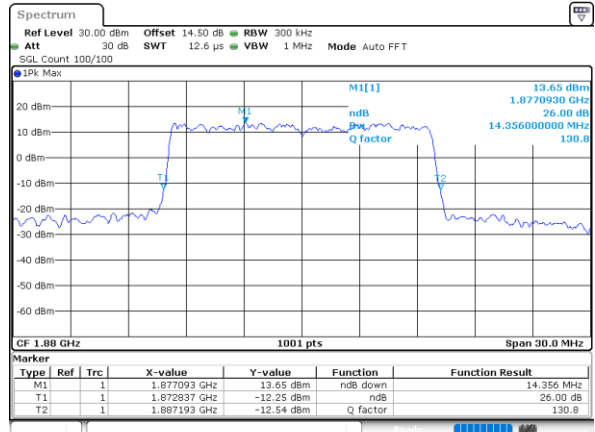
Date: 21.SEP.2023 16:45:40

Middle Channel / 15MHz / QPSK



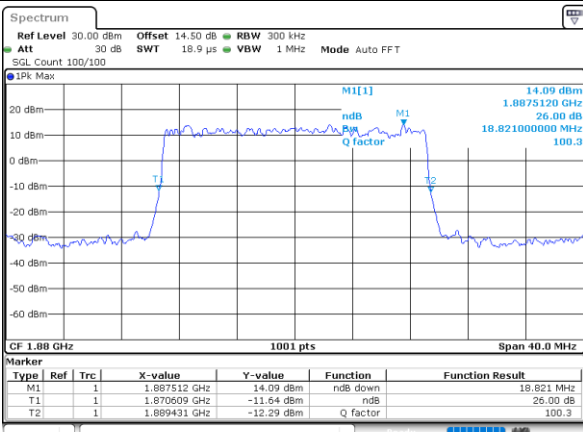
Date: 21.SEP.2023 17:05:44

Middle Channel / 15MHz / 16QAM



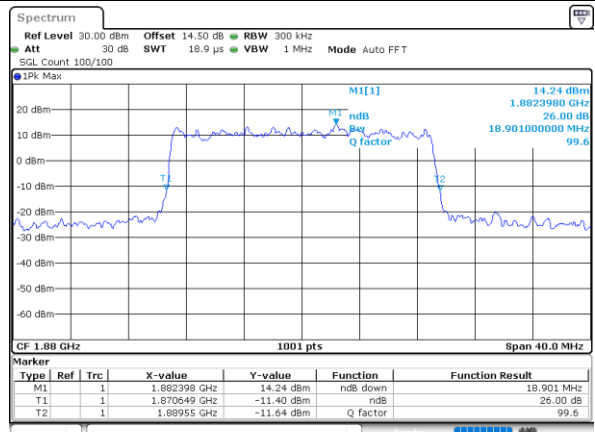
Date: 21.SEP.2023 17:06:26

Middle Channel / 20MHz / QPSK



Date: 21.SEP.2023 17:20:35

Middle Channel / 20MHz / 16QAM



Date: 21.SEP.2023 17:21:17



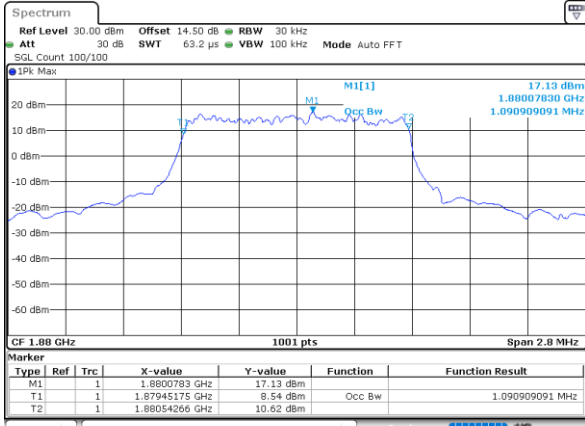
Occupied Bandwidth

Mode	LTE Band 2 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.72	2.72	4.49	4.49	9.11	9.07	13.46	13.52	17.82	17.86



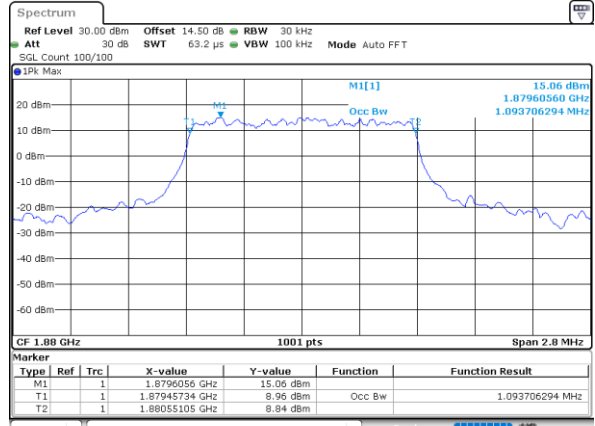
LTE Band 2

Middle Channel / 1.4MHz / QPSK



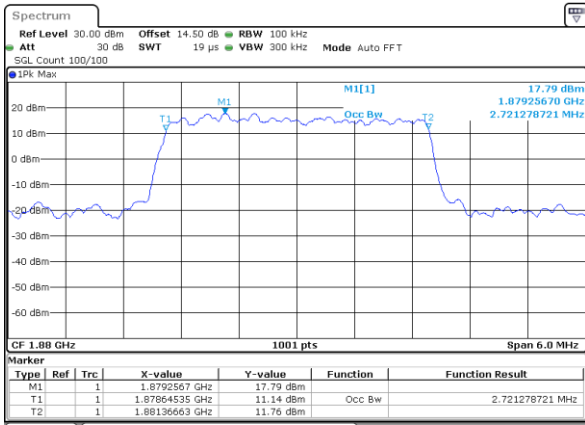
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Middle Channel / 1.4MHz / 16QAM



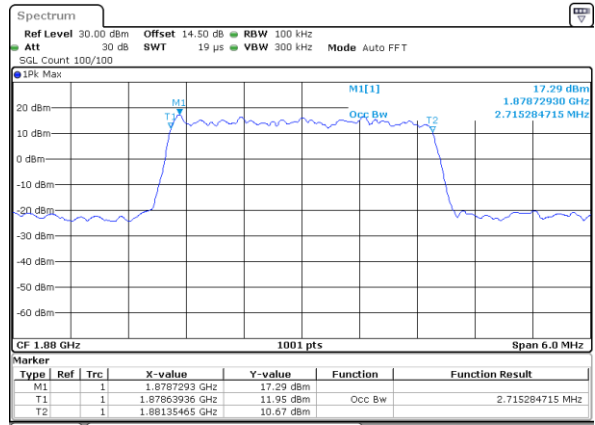
Date: 21.SEP.2023 15:16:13

Middle Channel / 3MHz / QPSK



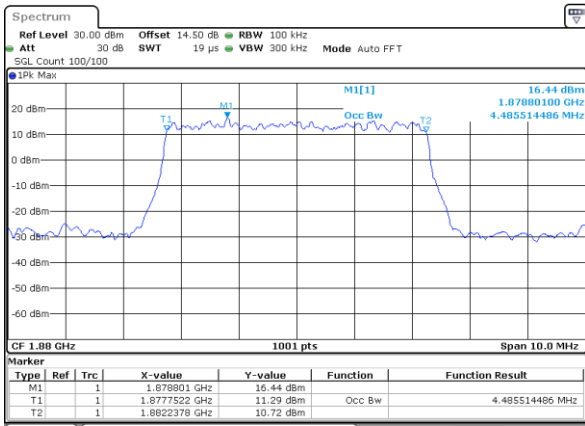
Date: 21.SEP.2023 15:37:46

Middle Channel / 3MHz / 16QAM



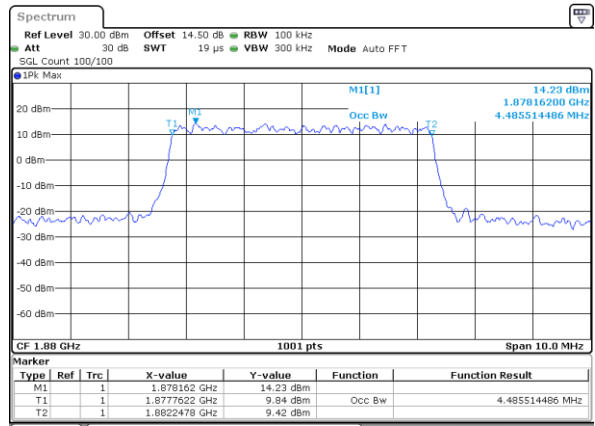
Date: 21.SEP.2023 15:38:29

Middle Channel / 5MHz / QPSK



Date: 21.SEP.2023 16:11:01

Middle Channel / 5MHz / 16QAM

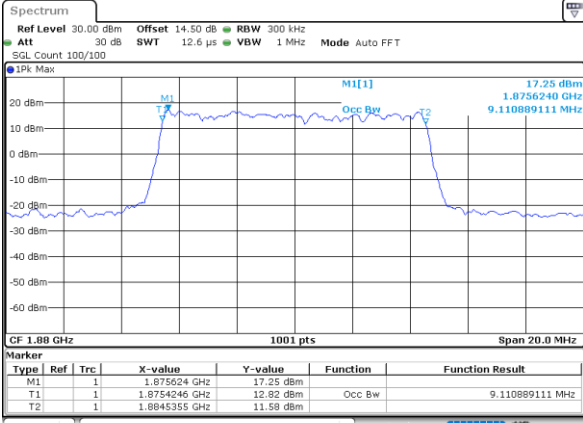


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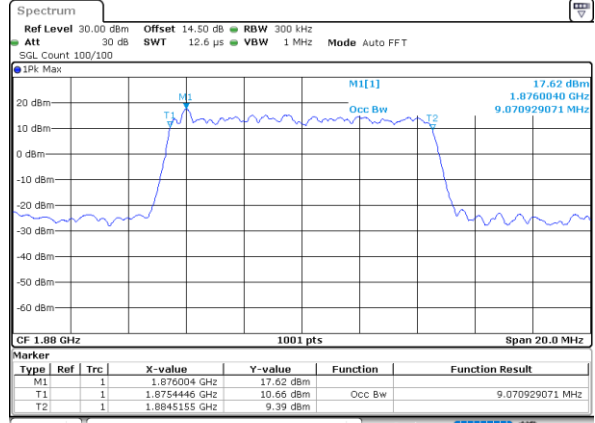
LTE Band 2

Middle Channel / 10MHz / QPSK



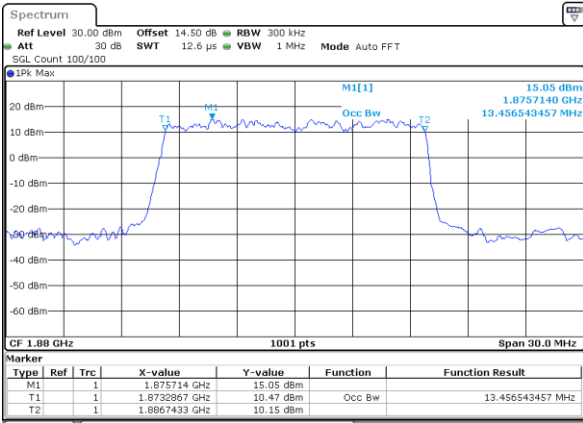
Date: 21.SEP.2023 16:44:44

Middle Channel / 10MHz / 16QAM



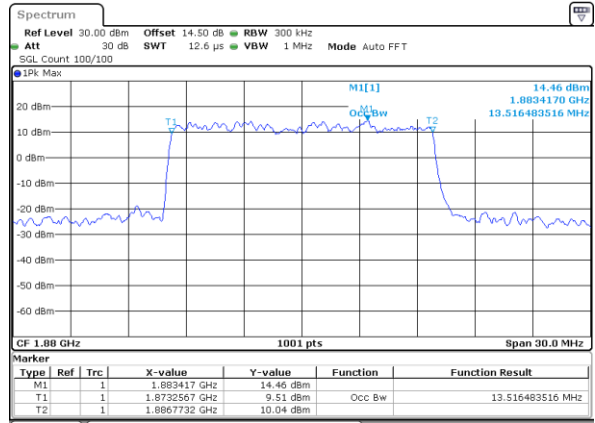
Date: 21.SEP.2023 16:45:26

Middle Channel / 15MHz / QPSK



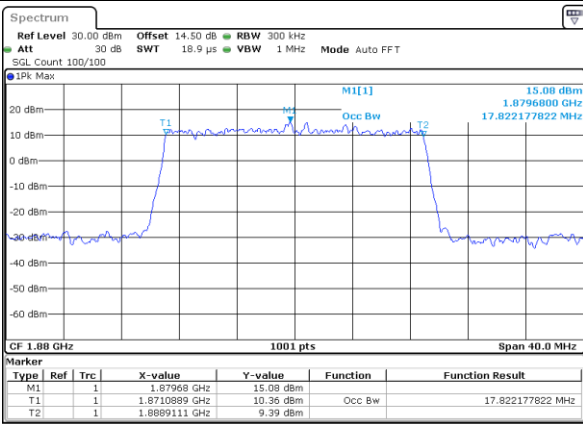
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Middle Channel / 15MHz / 16QAM



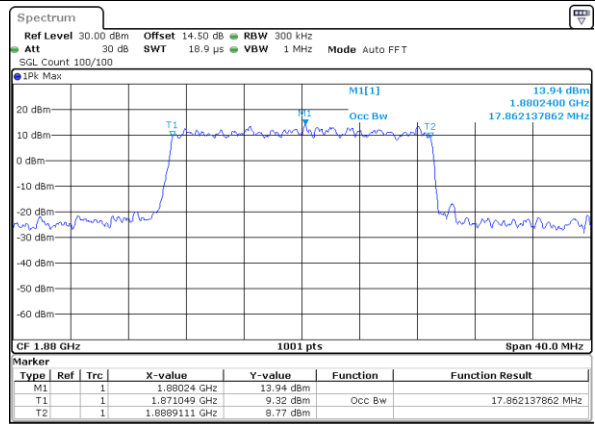
Date: 21.SEP.2023 17:06:12

Middle Channel / 20MHz / QPSK



Date: 21.SEP.2023 17:20:21

Middle Channel / 20MHz / 16QAM



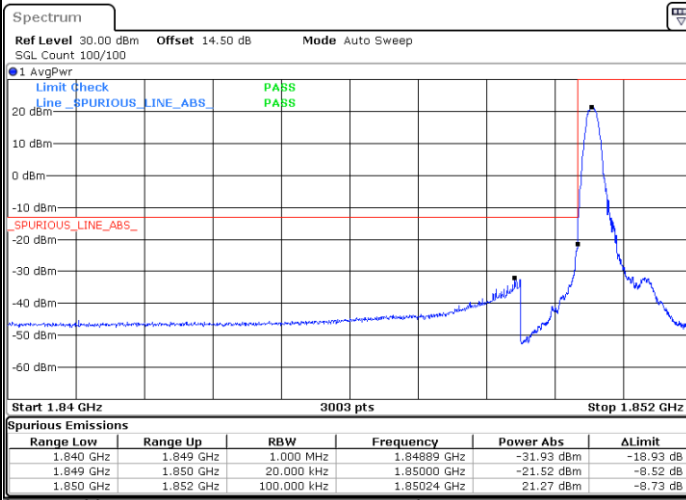
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Conducted Band Edge

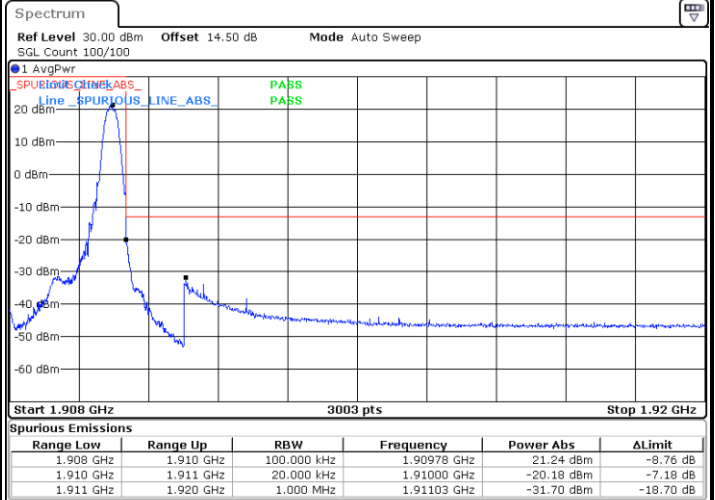
LTE Band 2 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



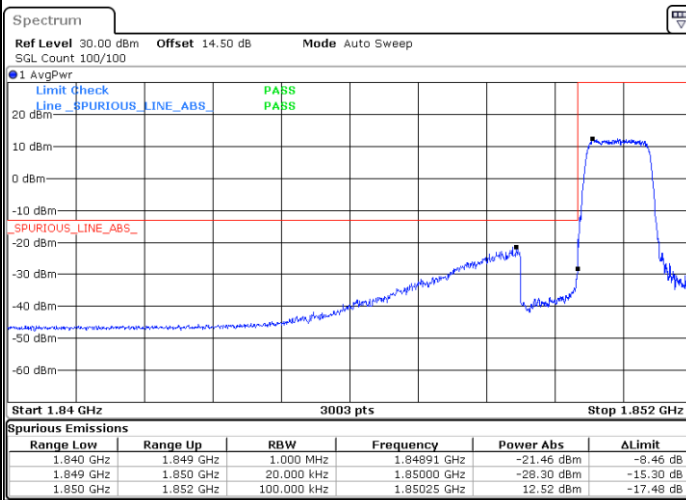
Date: 21.SEP.2023 15:08:38

Highest Band Edge / 1RB



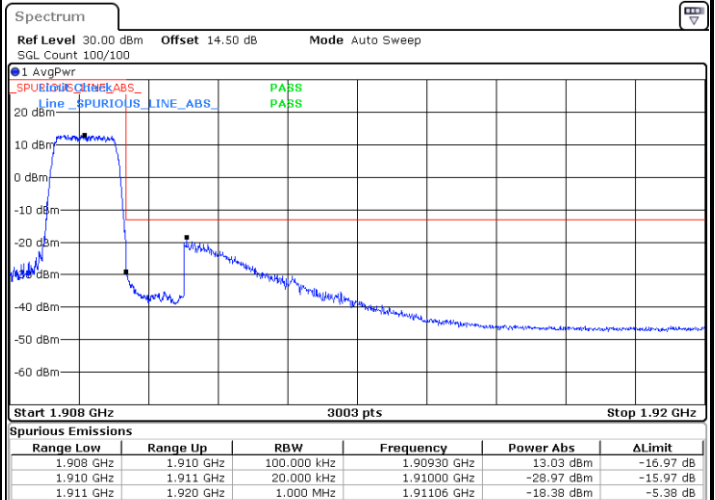
Date: 21.SEP.2023 15:17:17

Lowest Band Edge / Full RB



Date: 21.SEP.2023 15:12:13

Highest Band Edge / Full RB

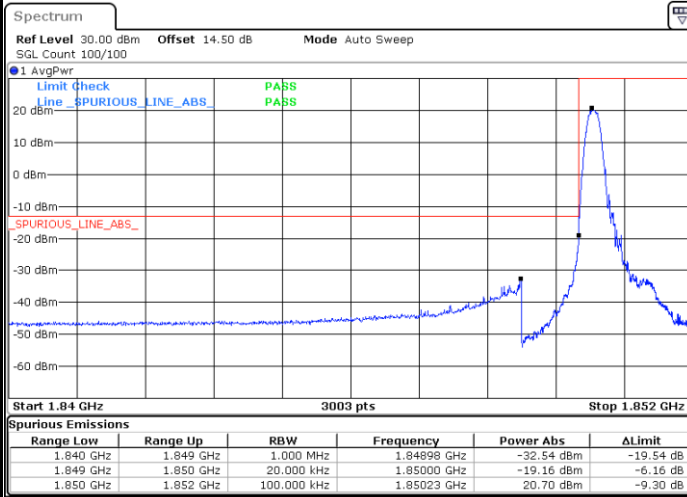


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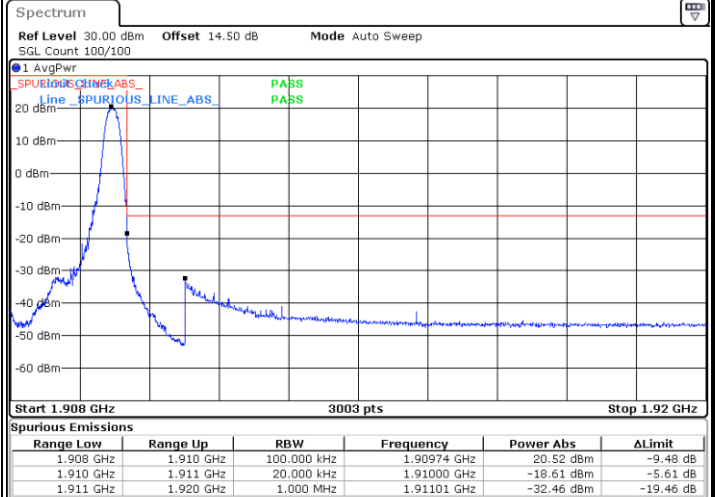


LTE Band 2 / 1.4MHz / 16QAM

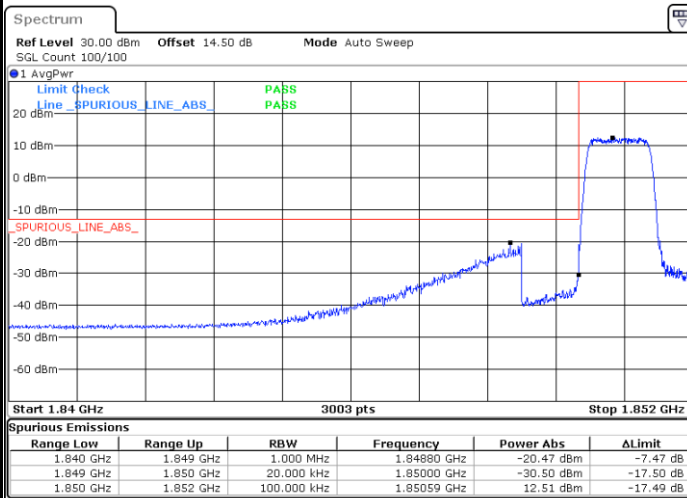
Lowest Band Edge / 1 RB



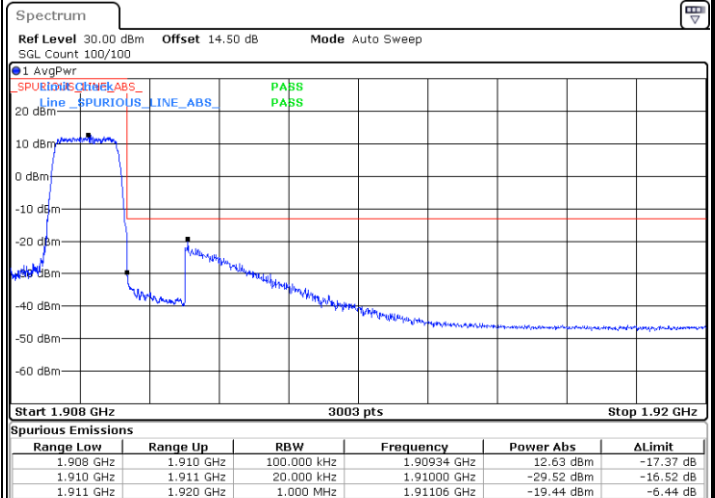
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

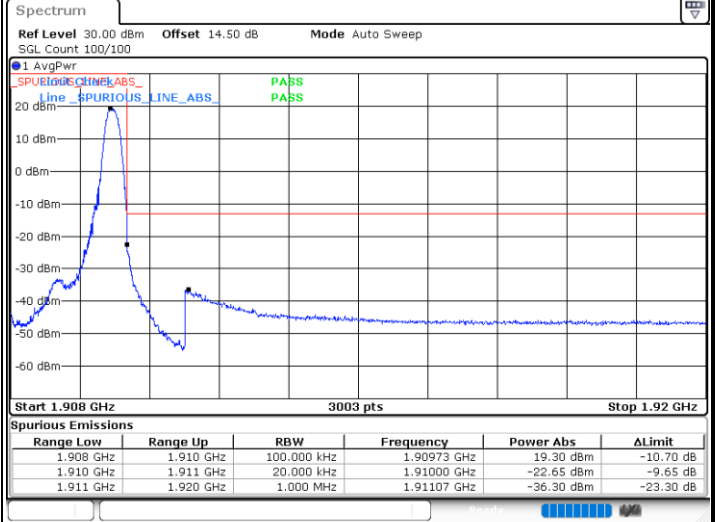
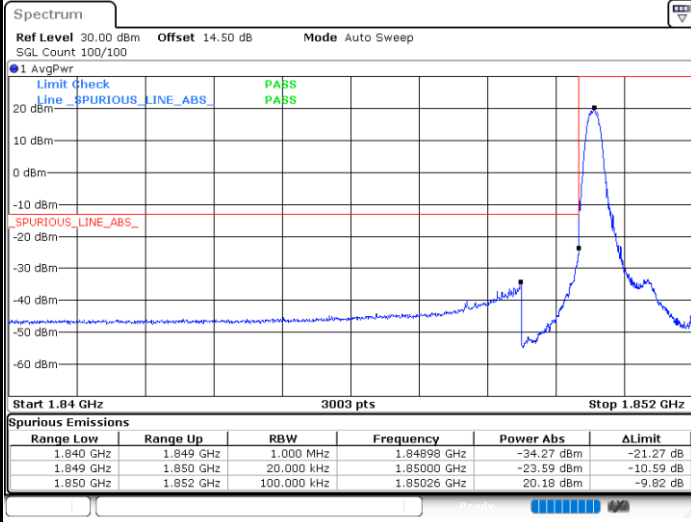




LTE Band 2 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

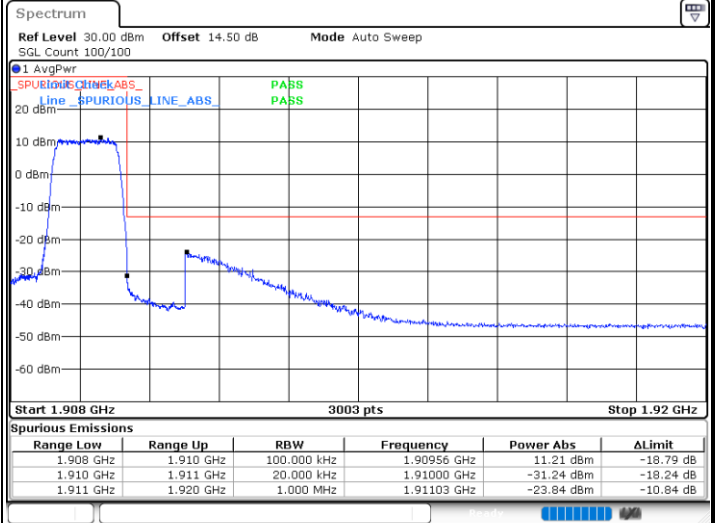
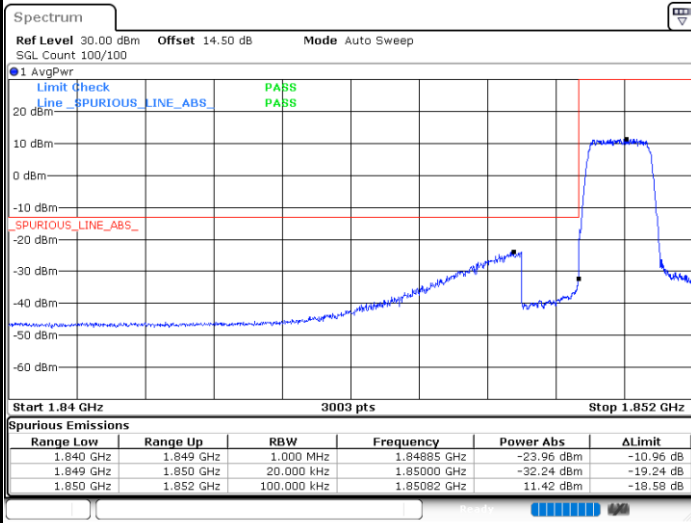


Date: 21.SEP.2023 15:10:20

Date: 21.SEP.2023 15:18:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



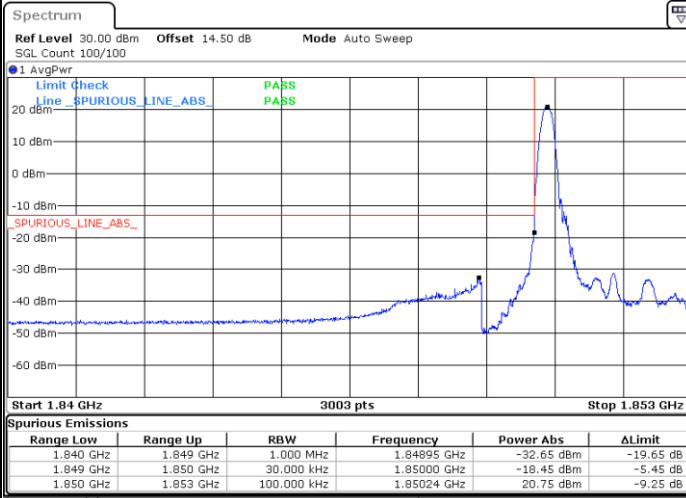
Date: 21.SEP.2023 15:13:55

Date: 21.SEP.2023 15:22:35



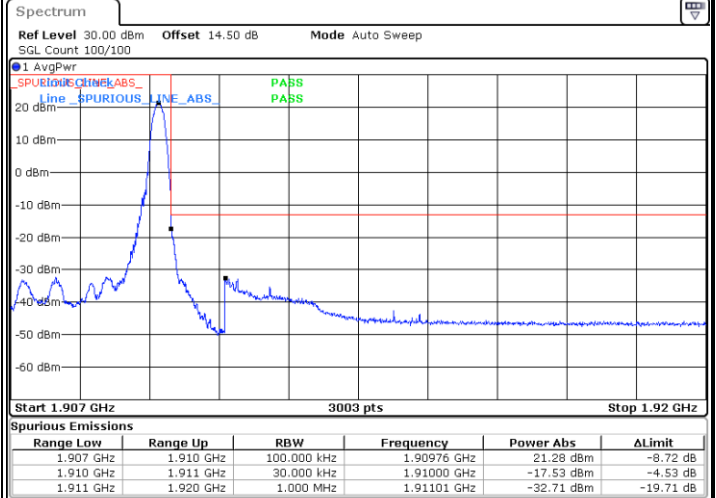
LTE Band 2 / 3MHz / QPSK

Lowest Band Edge / 1RB



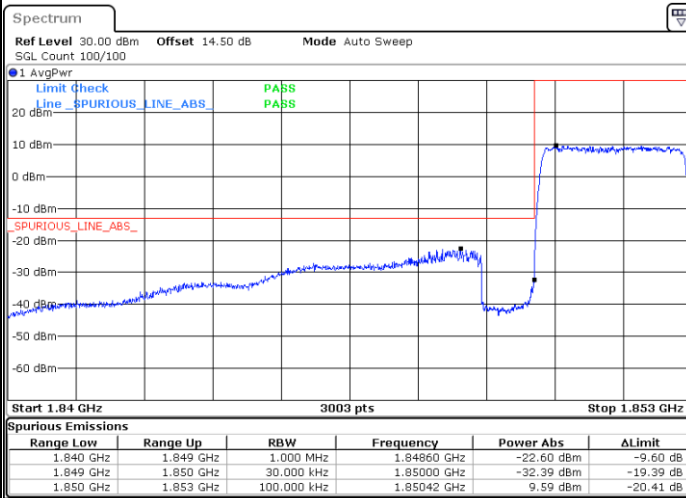
Date: 21.SEP.2023 15:31:17

Highest Band Edge / 1RB



Date: 21.SEP.2023 15:39:31

Lowest Band Edge / Full RB



Date: 21.SEP.2023 15:34:41

Highest Band Edge / Full RB

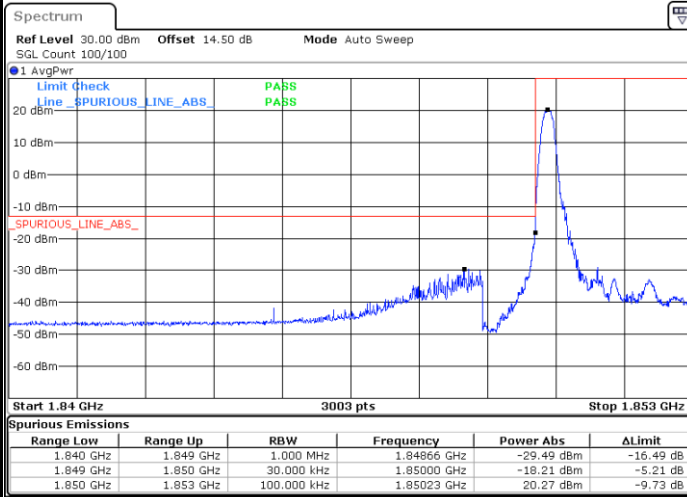


Date: 21.SEP.2023 15:41:56



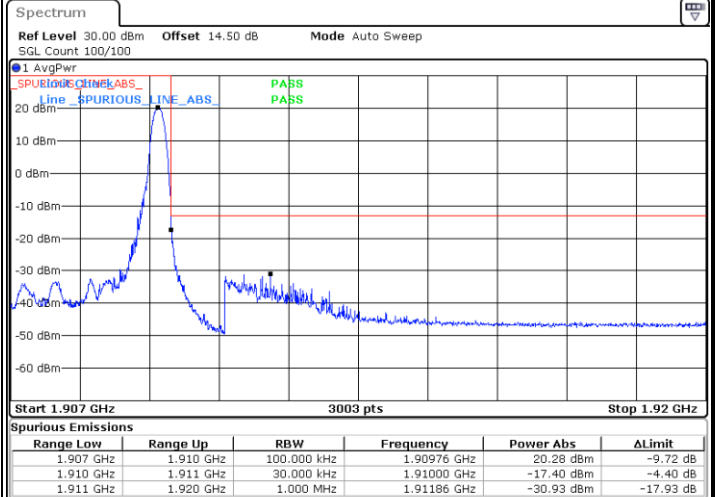
LTE Band 2 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



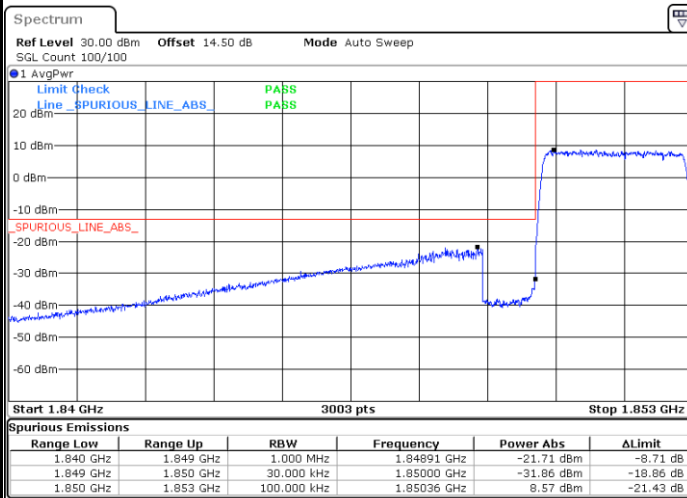
Date: 21.SEP.2023 15:32:05

Highest Band Edge / 1 RB



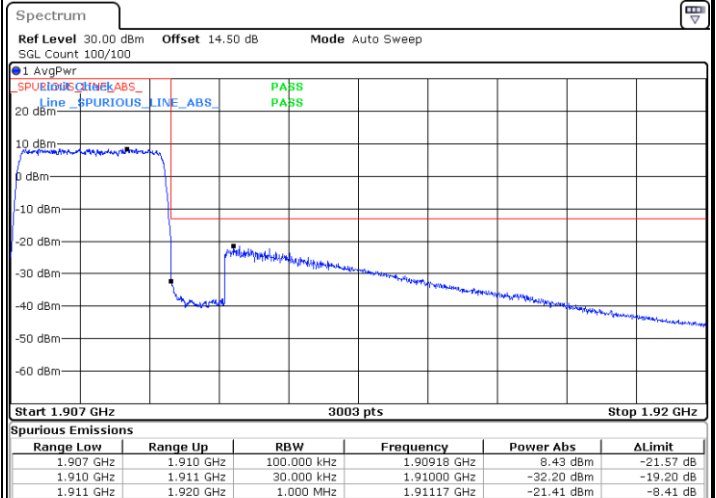
Date: 21.SEP.2023 15:40:19

Lowest Band Edge / Full RB



Date: 21.SEP.2023 15:35:30

Highest Band Edge / Full RB

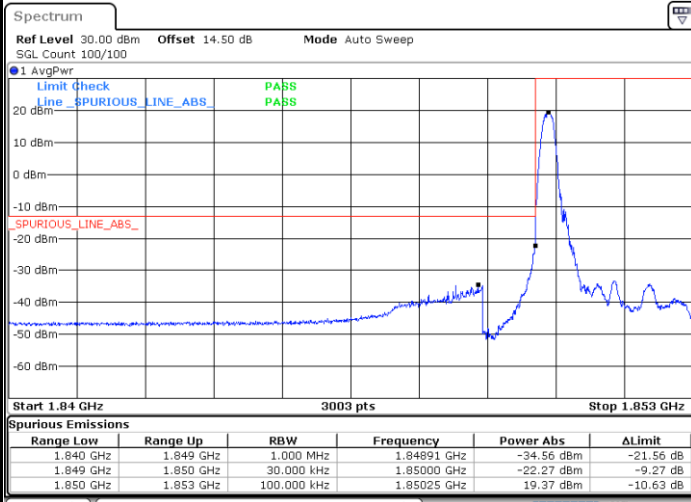


Date: 21.SEP.2023 15:42:45



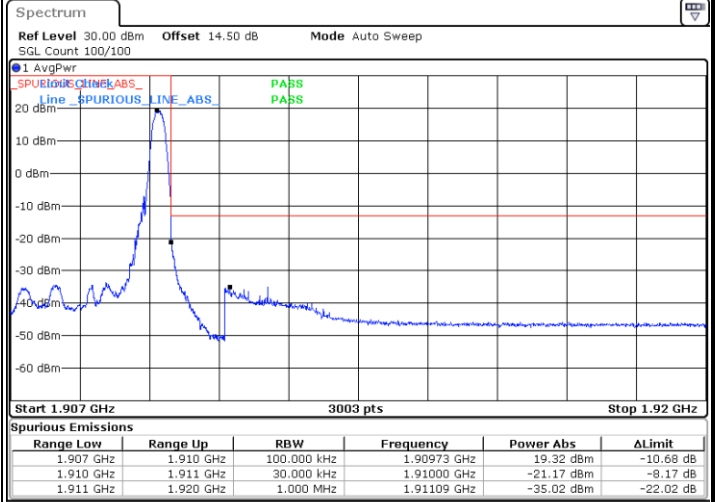
LTE Band 2 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



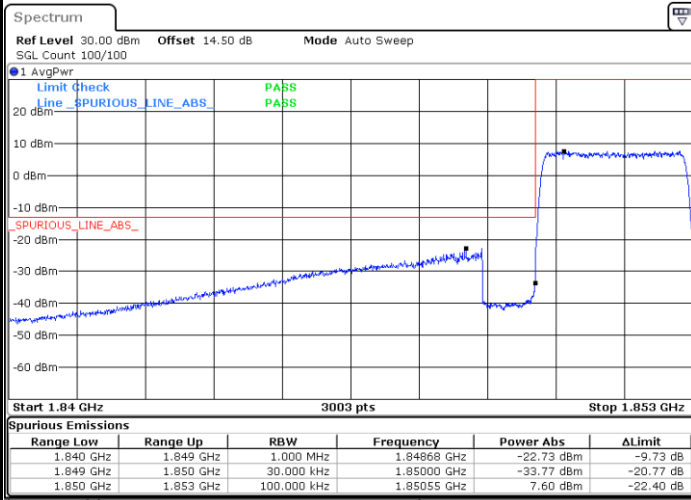
Date: 21.SEP.2023 15:32:54

Highest Band Edge / 1 RB



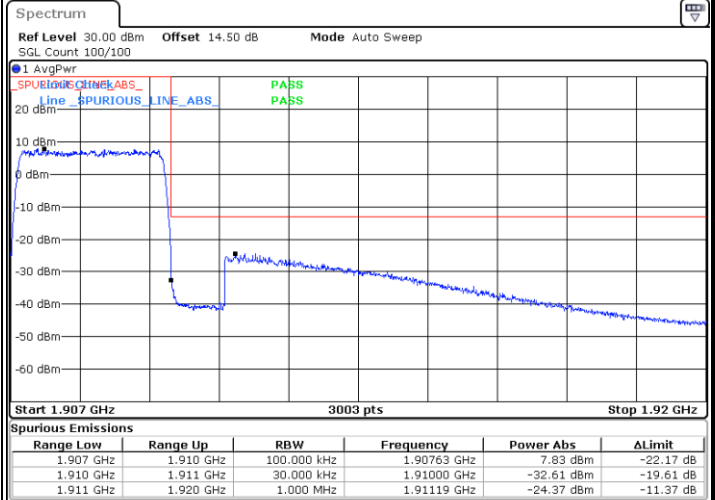
Date: 21.SEP.2023 15:41:08

Lowest Band Edge / Full RB



Date: 21.SEP.2023 15:36:18

Highest Band Edge / Full RB

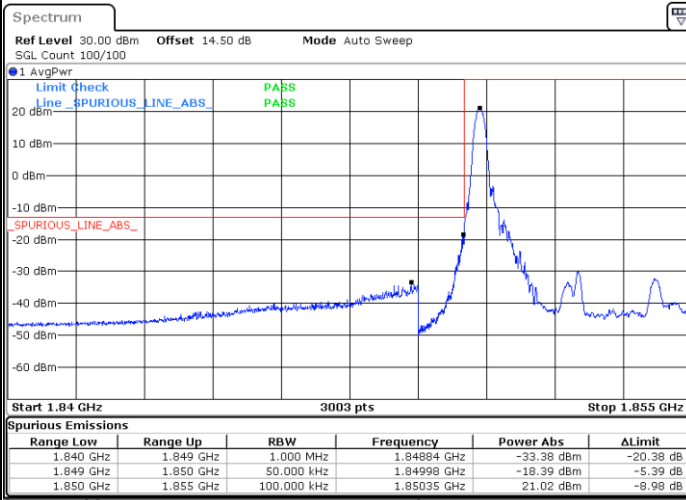


Date: 21.SEP.2023 15:43:33



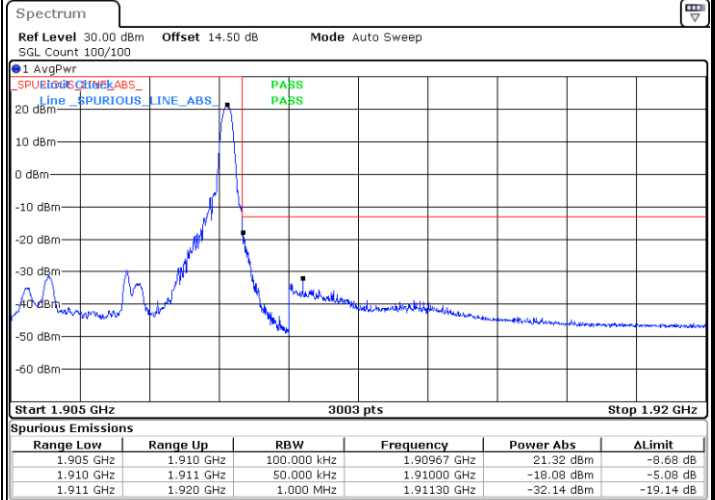
LTE Band 2 / 5MHz / QPSK

Lowest Band Edge / 1RB



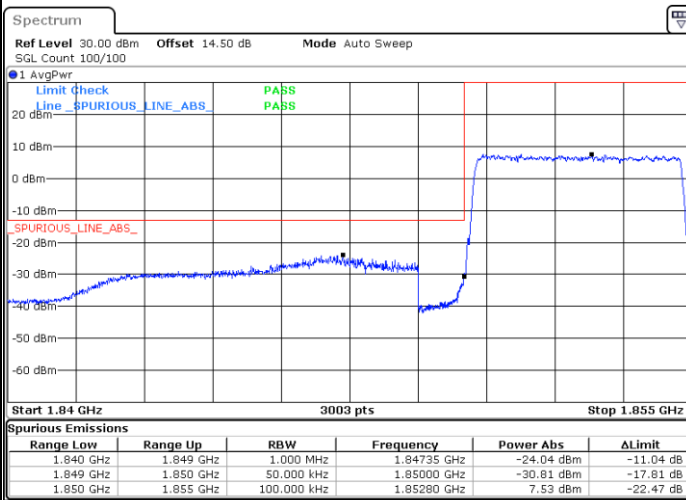
Date: 21.SEP.2023 16:04:33

Highest Band Edge / 1RB



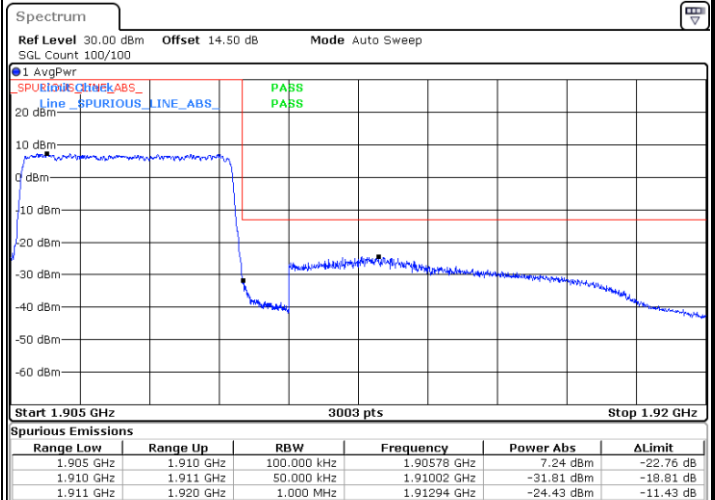
Date: 21.SEP.2023 16:12:45

Lowest Band Edge / Full RB



Date: 21.SEP.2023 16:07:57

Highest Band Edge / Full RB

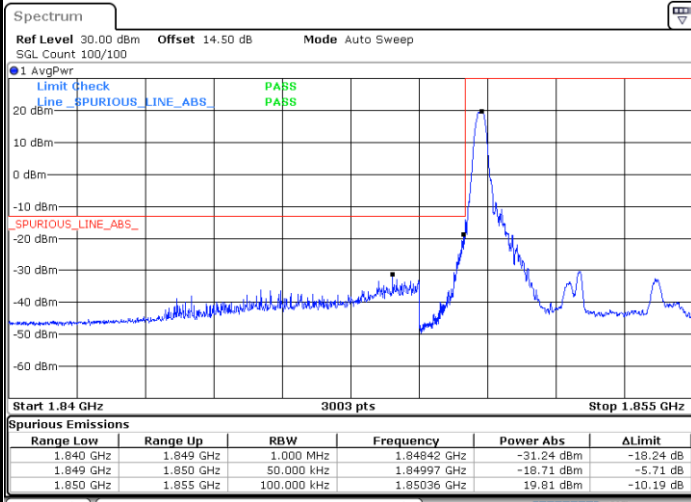


Date: 21.SEP.2023 16:15:10



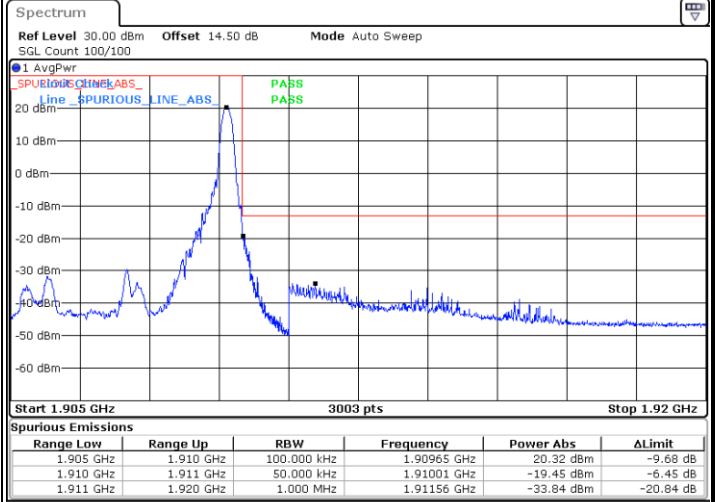
LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



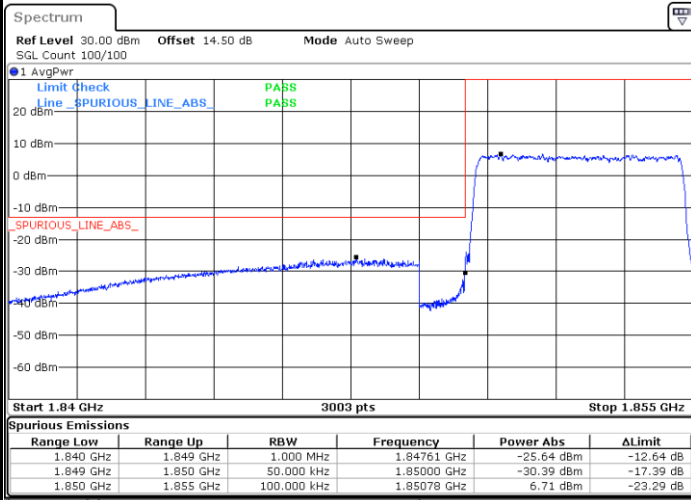
Date: 21.SEP.2023 16:05:22

Highest Band Edge / 1 RB



Date: 21.SEP.2023 16:13:33

Lowest Band Edge / Full RB



Date: 21.SEP.2023 16:08:45

Highest Band Edge / Full RB

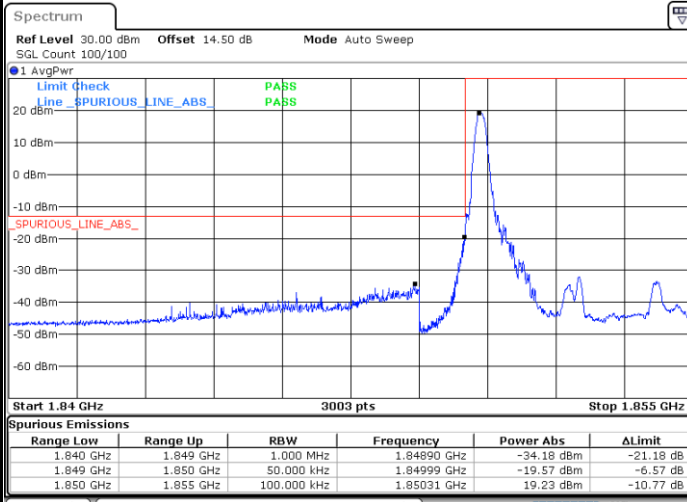


Date: 21.SEP.2023 16:15:58



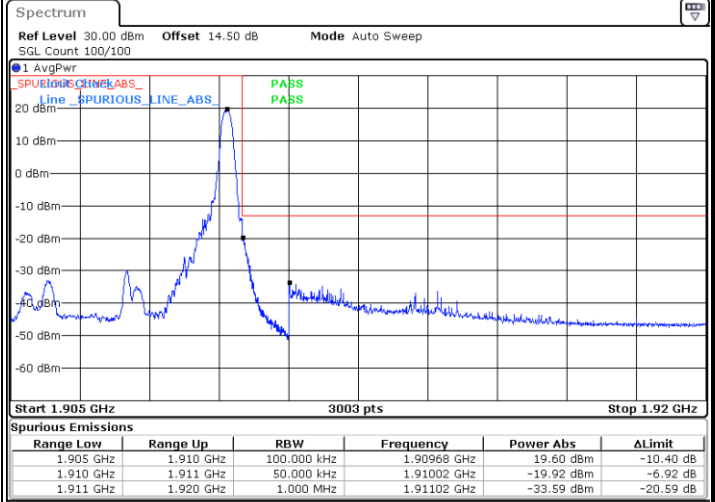
LTE Band 2 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



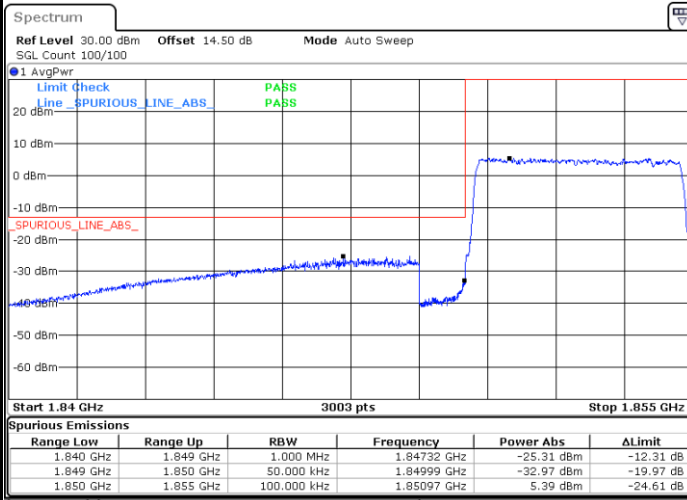
Date: 21.SEP.2023 16:06:10

Highest Band Edge / 1 RB



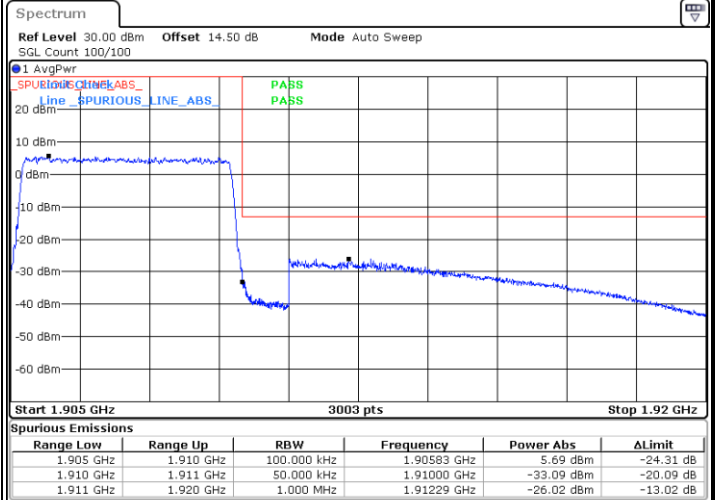
Date: 21.SEP.2023 16:14:22

Lowest Band Edge / Full RB



Date: 21.SEP.2023 16:09:34

Highest Band Edge / Full RB

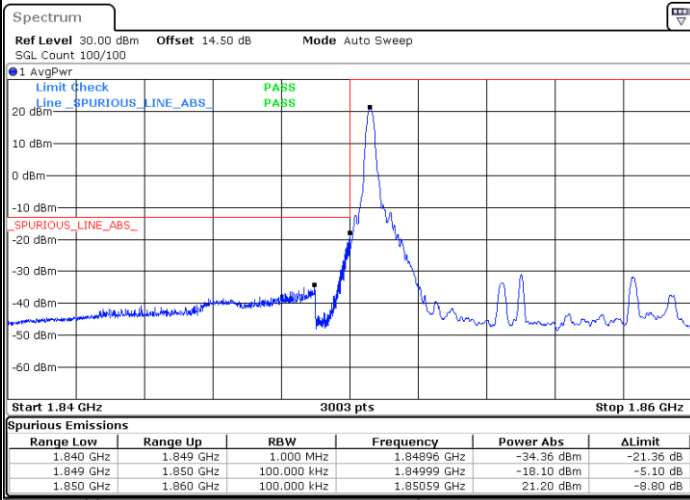


Date: 21.SEP.2023 16:16:47



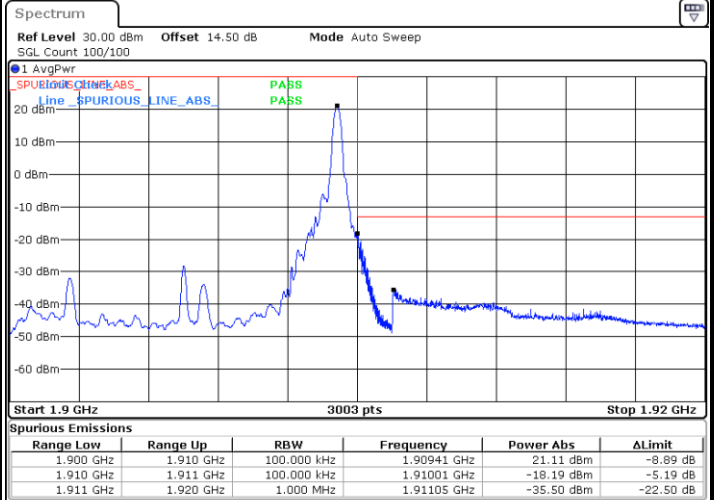
LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / 1RB



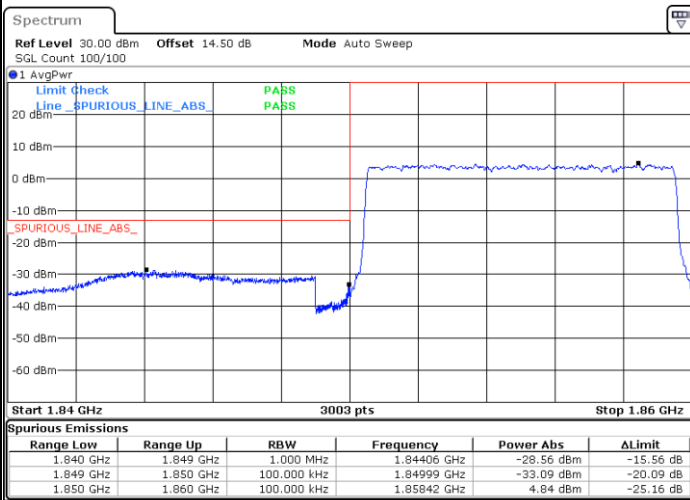
Date: 21.SEP.2023 16:38:15

Highest Band Edge / 1RB



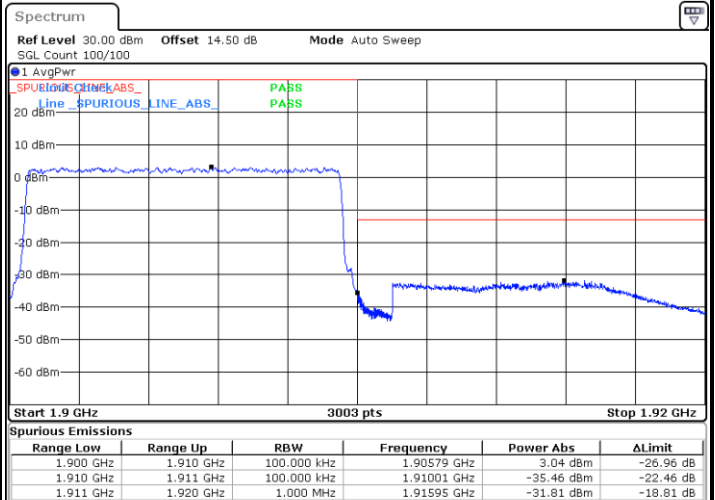
Date: 21.SEP.2023 16:46:28

Lowest Band Edge / Full RB



Date: 21.SEP.2023 16:40:41

Highest Band Edge / Full RB

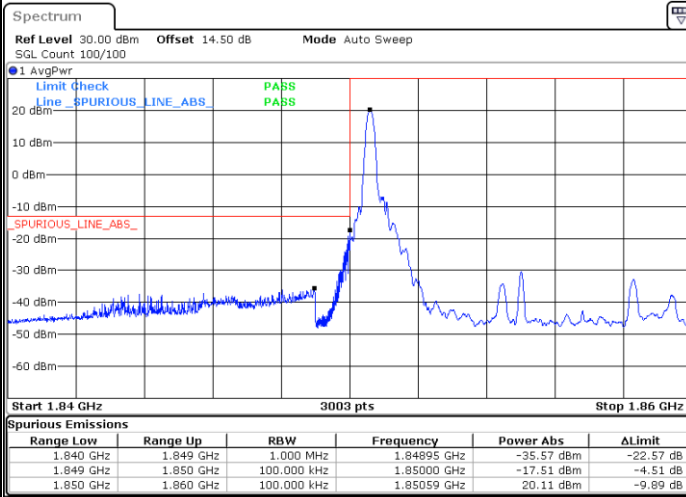


Date: 21.SEP.2023 16:48:53



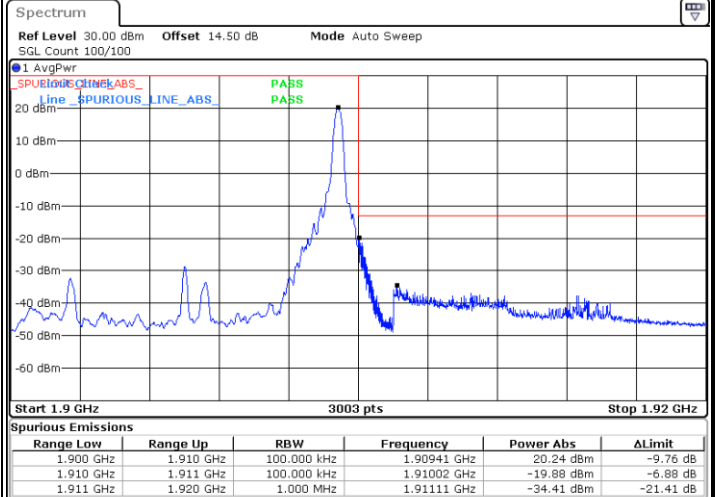
LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



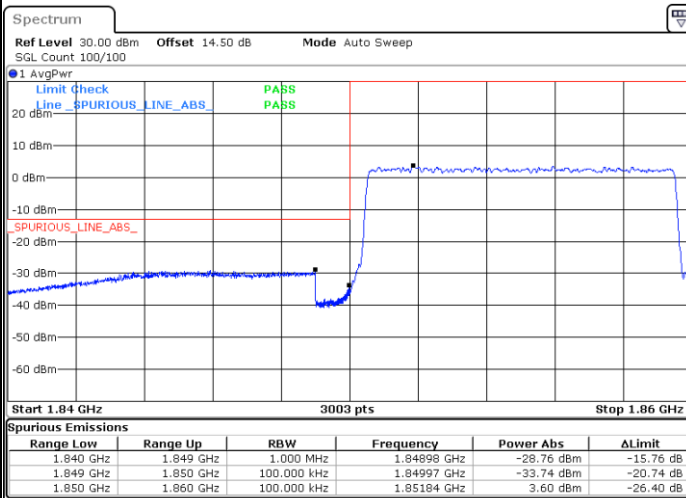
Date: 21.SEP.2023 16:39:04

Highest Band Edge / 1 RB



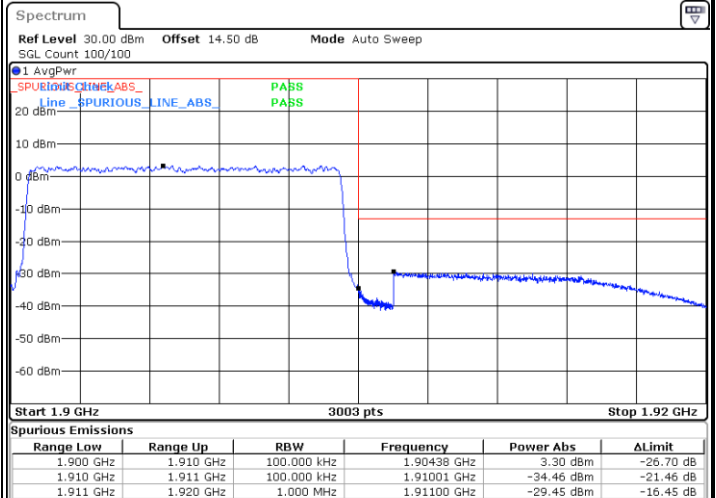
Date: 21.SEP.2023 16:47:16

Lowest Band Edge / Full RB



Date: 21.SEP.2023 16:41:29

Highest Band Edge / Full RB

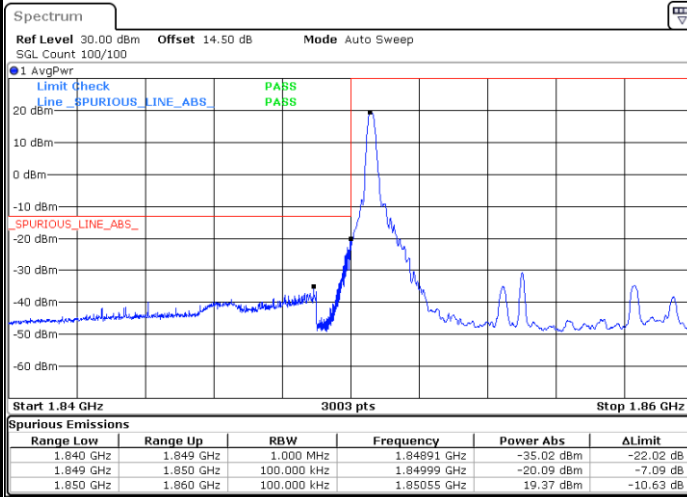


Date: 21.SEP.2023 16:49:42



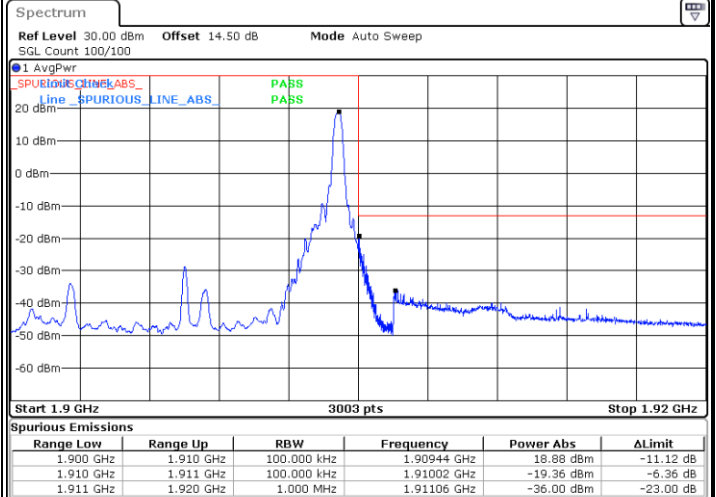
LTE Band 2 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



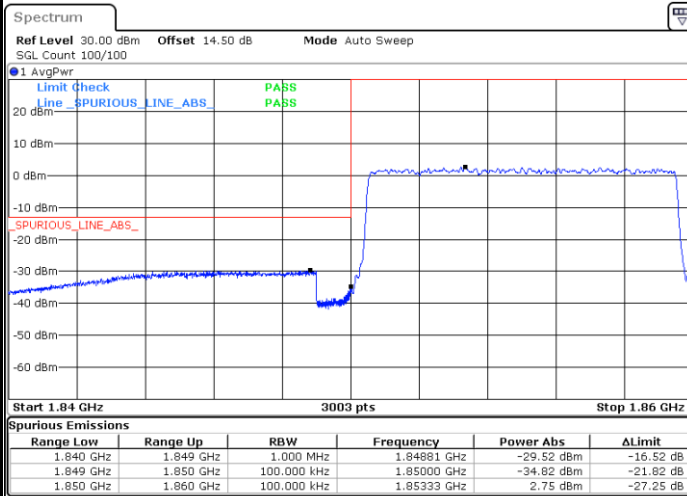
Date: 21.SEP.2023 16:39:52

Highest Band Edge / 1 RB



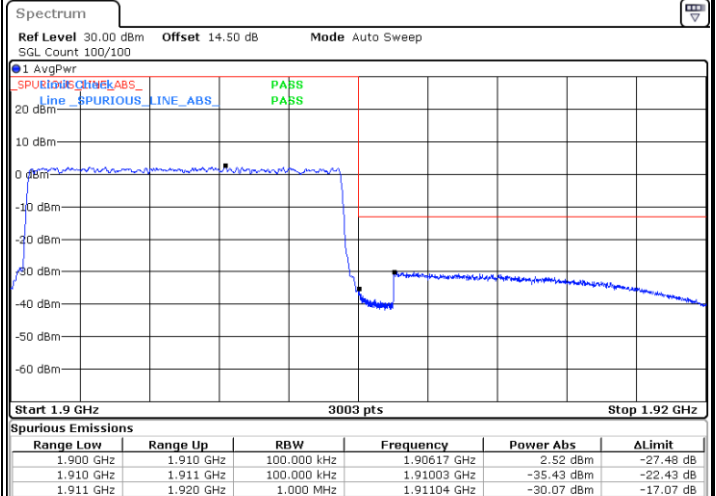
Date: 21.SEP.2023 16:48:04

Lowest Band Edge / Full RB



Date: 21.SEP.2023 16:42:18

Highest Band Edge / Full RB

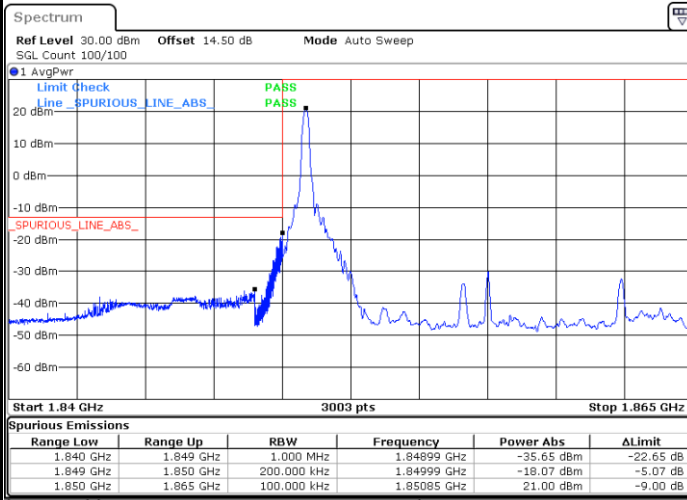


Date: 21.SEP.2023 16:50:30



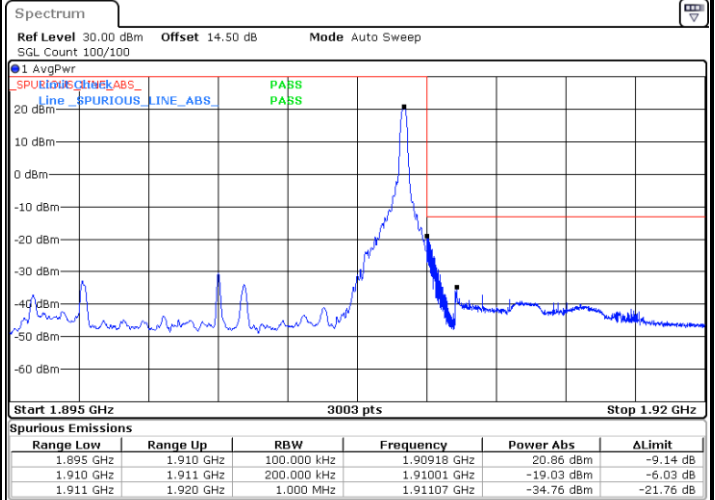
LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1RB



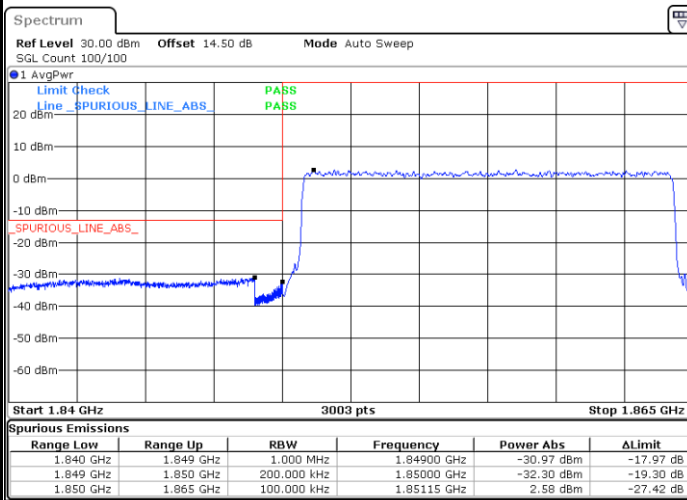
Date: 21.SEP.2023 16:59:02

Highest Band Edge / 1RB



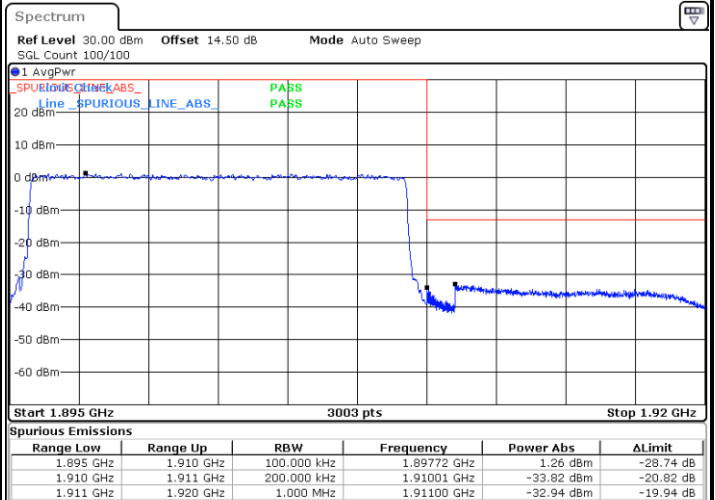
Date: 21.SEP.2023 17:07:14

Lowest Band Edge / Full RB



Date: 21.SEP.2023 17:01:27

Highest Band Edge / Full RB

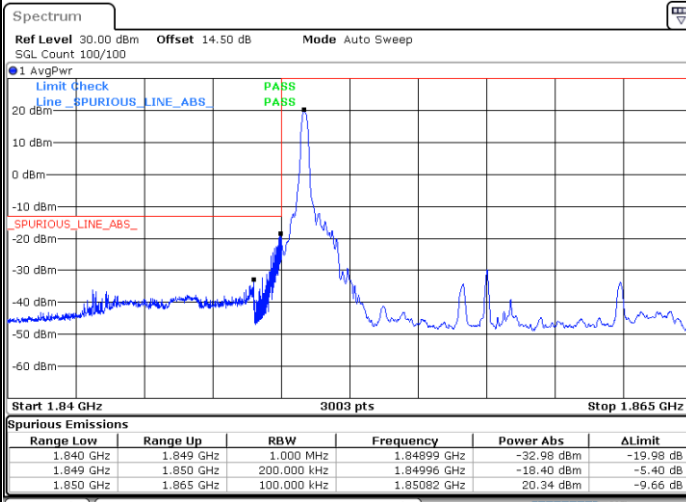


Date: 21.SEP.2023 17:09:39



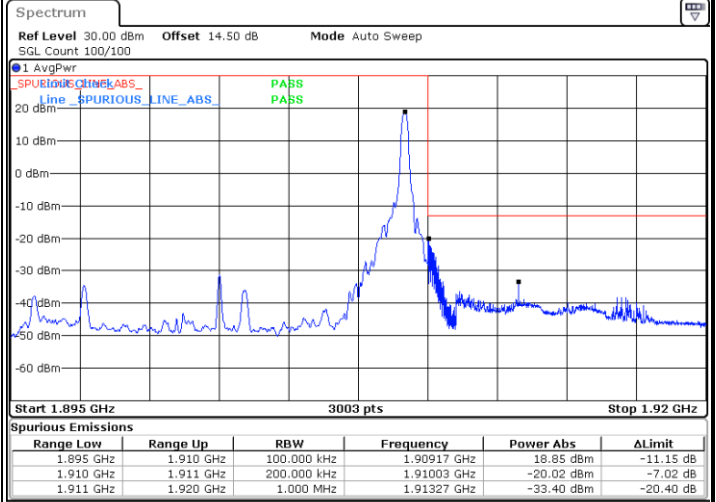
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



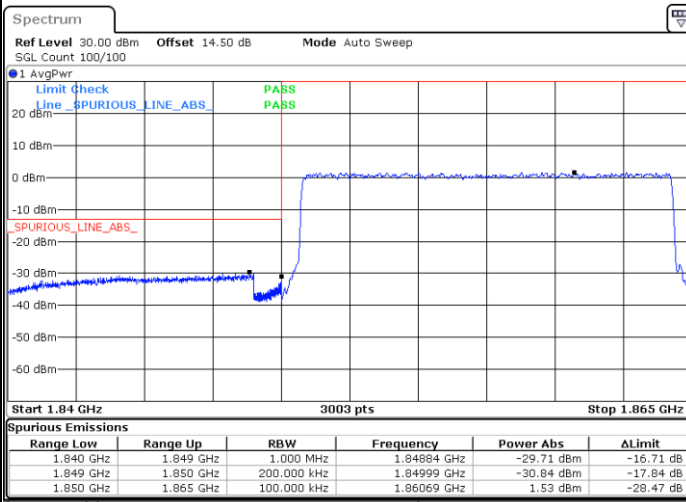
Date: 21.SEP.2023 16:59:50

Highest Band Edge / 1 RB



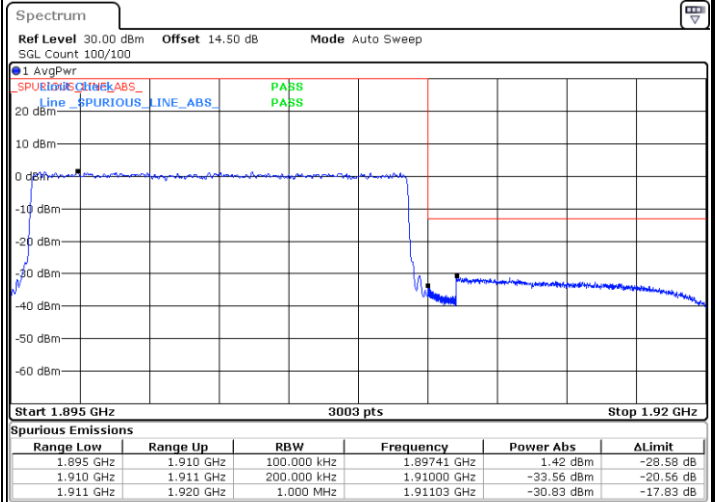
Date: 21.SEP.2023 17:08:02

Lowest Band Edge / Full RB



Date: 21.SEP.2023 17:02:16

Highest Band Edge / Full RB

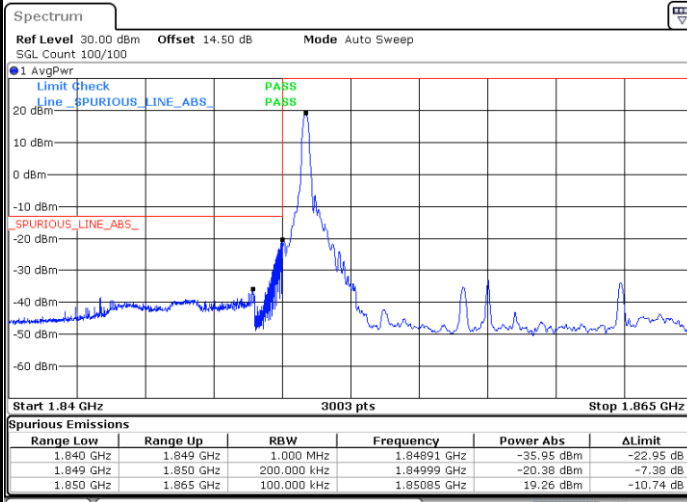


Date: 21.SEP.2023 17:10:27



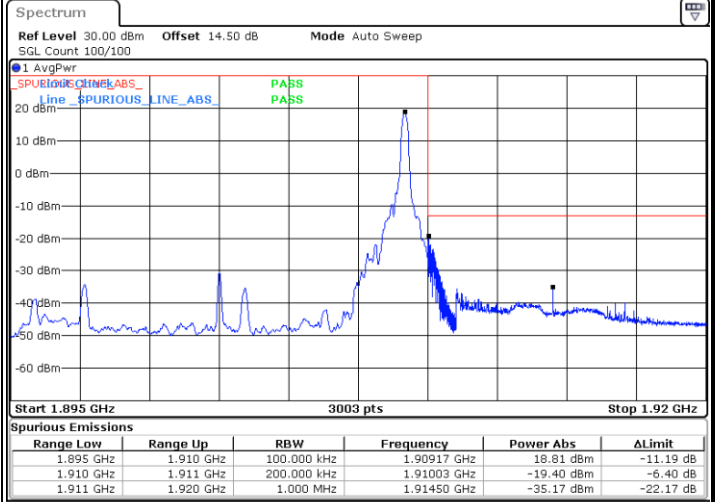
LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



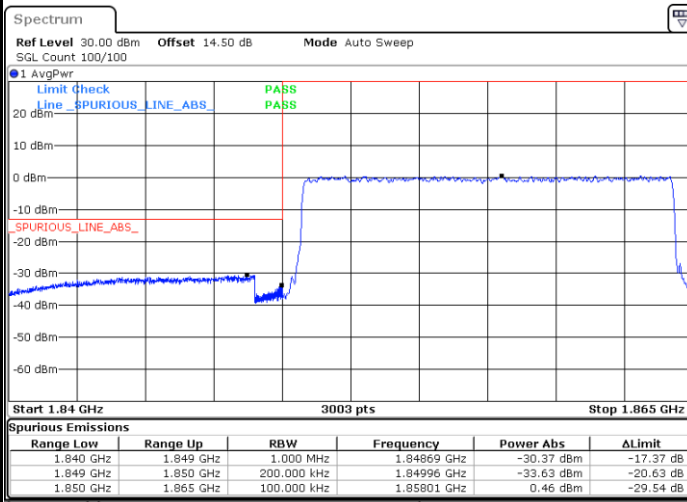
Date: 21.SEP.2023 17:00:39

Highest Band Edge / 1 RB



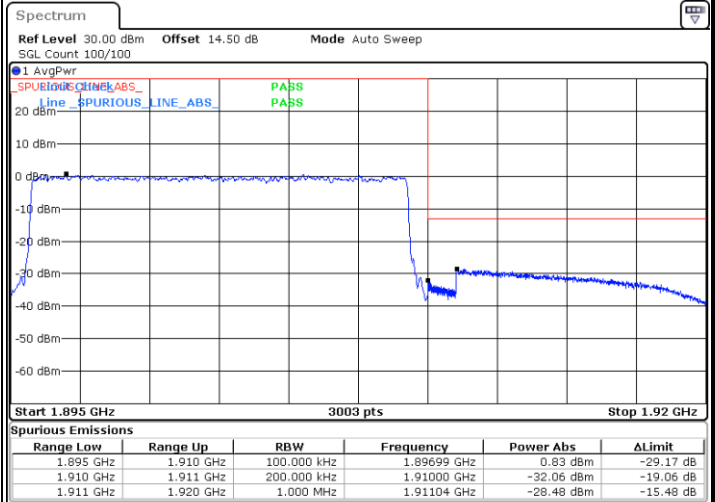
Date: 21.SEP.2023 17:08:50

Lowest Band Edge / Full RB



Date: 21.SEP.2023 17:03:04

Highest Band Edge / Full RB

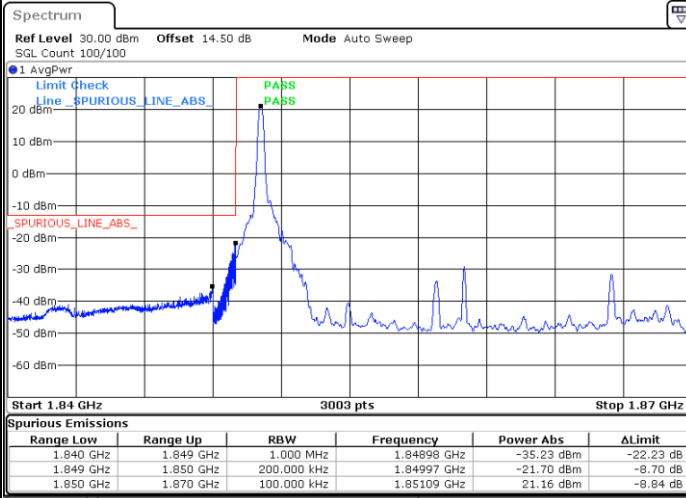


Date: 21.SEP.2023 17:11:16



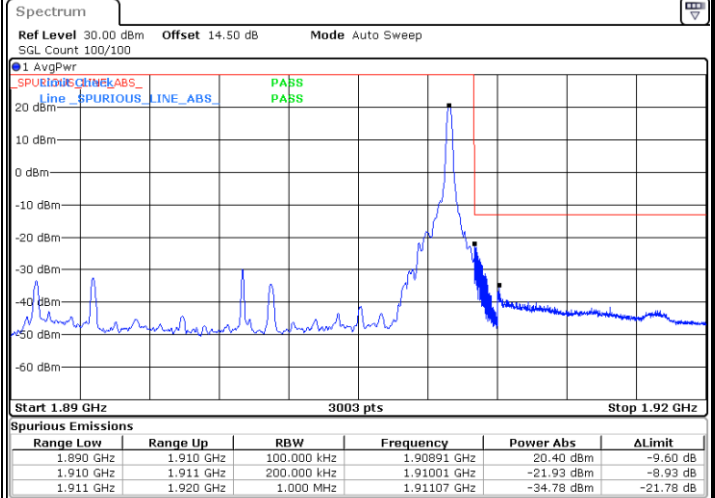
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1RB



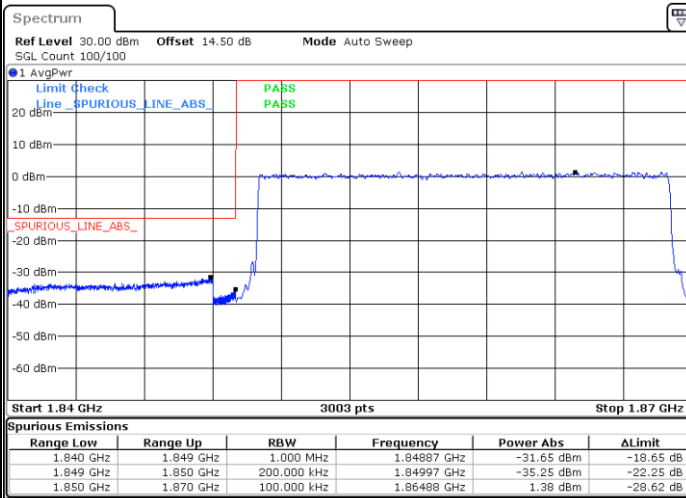
Date: 21.SEP.2023 17:13:53

Highest Band Edge / 1RB



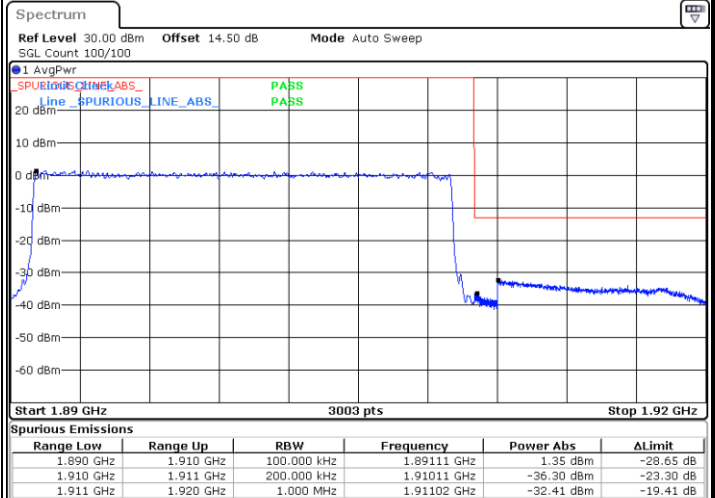
Date: 21.SEP.2023 17:23:33

Lowest Band Edge / Full RB



Date: 21.SEP.2023 17:16:18

Highest Band Edge / Full RB



Date: 21.SEP.2023 17:25:58