



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2341-2
FCC ID : IHDT56AM1
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(F), 27(M)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Apr. 04, 2023 ~ May 05, 2023

We, Sporton International Inc. (Kunshan), 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.

This report contains data that were produced under subcontract by Sporton International Inc. (ShenZhen)

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

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG332006B	Rev. 01	Initial issue of report	May 26, 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) (Band 26)	ERP < 7 Watt	PASS	-
	§27.50(b)(10)	Effective Radiated Power (Band 13)	ERP < 3 Watt		-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7) (Band 38)	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(c)(2)(4) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 13) (Band 26) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 13) (Band 26) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38)	< 55+10log ₁₀ (P[Watts])		
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(c)(2) §27.53(f) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 13) (Band 26) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 22.92 dB at 1559.500 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38)	< 55+10log ₁₀ (P[Watts])		

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

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2341-2
FCC ID	IHDT56AM1
IMEI Code	Conducted: 352000530005895/352000530005903 Radiation: 352000530015738/352000530015746
HW Version	DVT2
SW Version	TLA33.30
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 7 : 2500 MHz ~ 2570 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 26 : 824 MHz ~ 849 MHz LTE Band 38 : 2570 MHz ~ 2620 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 7 : 2620 MHz ~ 2690 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 26 : 869 MHz ~ 894 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 66 : 2110 MHz~ 2180 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 7 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 13 : 5MHz / 10MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 22.91 dBm LTE Band 4 : 23.26 dBm LTE Band 5 : 23.23 dBm LTE Band 7 : 23.11 dBm LTE Band 13 : 23.06 dBm LTE Band 26 : 23.24 dBm LTE Band 38 : 22.59 dBm LTE Band 66 : 23.26 dBm
Antenna Gain	LTE Band 2 : -0.6 dBi LTE Band 4 : -1.8 dBi LTE Band 5 : -5.4 dBi LTE Band 7 : -0.7 dBi LTE Band 13 : -5.1 dBi LTE Band 26 : -5.4 dBi LTE Band 38 : -0.7 dBi LTE Band 66 : -1.8 dBi
Type of Modulation	QPSK / 16QAM

1.5 Modification of EUT

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



1.6 Maximum ERP/EIRP Power and Emission Designator

LTE Band 2		QPSK		16QAM	
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	0.1683	1M10G7D	0.1297	1M09W7D
3	1851.5 ~ 1908.5	0.1679	2M72G7D	0.1413	2M72W7D
5	1852.5 ~ 1907.5	0.1690	4M47G7D	0.1429	4M49W7D
10	1855.0 ~ 1905.0	0.1667	9M09G7D	0.1413	9M01W7D
15	1857.5 ~ 1902.5	0.1637	13M5G7D	0.1390	13M4W7D
20	1860.0 ~ 1900.0	0.1702	17M9G7D	0.1472	17M9W7D
LTE Band 4		QPSK		16QAM	
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	0.1371	1M09G7D	0.1074	1M09W7D
3	1711.5 ~ 1753.5	0.1358	2M75G7D	0.1216	2M70W7D
5	1712.5 ~ 1752.5	0.1377	4M49G7D	0.1247	4M48W7D
10	1715.0 ~ 1750.0	0.1393	9M11G7D	0.1242	8M99W7D
15	1717.5 ~ 1747.5	0.1365	13M4G7D	0.1233	13M5W7D
20	1720.0 ~ 1745.0	0.1400	17M9G7D	0.1247	17M9W7D
LTE Band 5		QPSK		16QAM	
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	0.0368	1M09G7D	0.0289	1M09W7D
3	825.5 ~ 847.5	0.0356	2M72G7D	0.0288	2M73W7D
5	826.5 ~ 846.5	0.0364	4M49G7D	0.0288	4M48W7D
10	829.0 ~ 844.0	0.0370	9M03G7D	0.0294	9M05W7D
LTE Band 7		QPSK		16QAM	
BW (MHz)	Frequency Range(MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.1690	4M50G7D	0.1596	4M47W7D
10	2505.0 ~ 2565.0	0.1726	9M21G7D	0.1552	9M01W7D
15	2507.5 ~ 2562.5	0.1710	13M4G7D	0.1567	13M5W7D
20	2510.0 ~ 2560.0	0.1742	17M9G7D	0.1603	17M9W7D
LTE Band 13		QPSK		16QAM	
BW (MHz)	Frequency Range(MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	779.5 ~ 784.5	0.0379	4M48G7D	0.0310	4M49W7D
10	782.0	0.0381	9M03G7D	0.0314	8M95W7D



LTE Band 26		QPSK		16QAM	
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	0.0358	1M09G7D	0.0276	1M09W7D
3	825.5 ~ 847.5	0.0348	2M72G7D	0.0284	2M73W7D
5	826.5 ~ 846.5	0.0352	4M49G7D	0.0277	4M48W7D
10	829.0 ~ 844.0	0.0354	9M03G7D	0.0276	9M05W7D
15	831.5 ~ 841.5	0.0371	13M4G7D	0.0296	13M5W7D
CH26790	824.0	0.0372	13M5G7D	0.0281	13M5W7D
LTE Band 38		QPSK		16QAM	
BW (MHz)	Frequency Range(MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2572.5 ~ 2617.5	0.1517	4M51G7D	0.1300	4M51W7D
10	2575.0 ~ 2615.0	0.1510	9M01G7D	0.1340	8M97W7D
15	2577.5 ~ 2612.5	0.1496	13M6G7D	0.1315	13M4W7D
20	2580.0 ~ 2610.0	0.1545	17M9G7D	0.1352	17M9W7D
LTE Band 66		QPSK		16QAM	
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	0.1396	1M09G7D	0.1067	1M09W7D
3	1711.5 ~ 1778.5	0.1393	2M75G7D	0.1161	2M70W7D
5	1712.5 ~ 1777.5	0.1365	4M49G7D	0.1114	4M48W7D
10	1715.0 ~ 1775.0	0.1380	9M11G7D	0.1127	8M99W7D
15	1717.5 ~ 1772.5	0.1374	13M4G7D	0.1135	13M5W7D
20	1720.0 ~ 1770.0	0.1400	17M9G7D	0.1172	17M9W7D

Note:

1. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.
2. 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.



1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-KS	CN1257	314309

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	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

Test data subcontracted: Radiated Spurious Emission test results in section 4.4 of this report.

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

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), 27(F), 27(M)
- ♦ 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.



1.10 Specification of Accessory

Specification of Accessory				
AC Adapter 1 (US)	Brand Name	Motorola (Salcomp)	Model Name	MC-201L
AC Adapter 1 (EU)	Brand Name	Motorola (Salcomp)	Model Name	MC-202L
AC Adapter 1 (AR)	Brand Name	Motorola (Salcomp)	Model Name	MC-206L
AC Adapter 1 (BR)	Brand Name	Motorola (Salcomp)	Model Name	MC-207L
AC Adapter 1 (CHILE)	Brand Name	Motorola (Salcomp)	Model Name	MC-209L
AC Adapter 2 (US)	Brand Name	Motorola (Aohai)	Model Name	MC-201L
AC Adapter 2 (EU)	Brand Name	Motorola (Aohai)	Model Name	MC-202L
AC Adapter 2 (AR)	Brand Name	Motorola (Aohai)	Model Name	MC-206L
AC Adapter 3 (US)	Brand Name	Motorola (Aohai)	Model Name	MC-101
AC Adapter 3 (EU)	Brand Name	Motorola (Aohai)	Model Name	MC-102
AC Adapter 3 (UK)	Brand Name	Motorola (Aohai)	Model Name	MC-103
AC Adapter 3 (AU)	Brand Name	Motorola (Aohai)	Model Name	MC-105
AC Adapter 4 (US)	Brand Name	Motorola (Chenyang)	Model Name	MC-101
AC Adapter 4 (EU)	Brand Name	Motorola (Chenyang)	Model Name	MC-102
AC Adapter 4 (UK)	Brand Name	Motorola (Chenyang)	Model Name	MC-103
AC Adapter 4 (AU)	Brand Name	Motorola (Chenyang)	Model Name	MC-105
AC Adapter 5 (US)	Brand Name	Motorola (Salcomp)	Model Name	MC-101
AC Adapter 5 (EU)	Brand Name	Motorola (Salcomp)	Model Name	MC-102
AC Adapter 5 (UK)	Brand Name	Motorola (Salcomp)	Model Name	MC-103
AC Adapter 5 (AU)	Brand Name	Motorola (Salcomp)	Model Name	MC-105
Battery 1	Brand Name	Motorola(ATL)	Model Name	PC50
Battery 2	Brand Name	Motorola (SCUD)	Model Name	PC50
Earphone 1	Brand Name	Motorola (New leader)	Model Name	NLD-EM313A-20SF
Earphone 2	Brand Name	Motorola (JWELL)	Model Name	JWEP1205-L20H
USB Cable 1	Brand Name	Motorola (SAIBAO)	Model Name	SLQ-A214A
USB Cable 2	Brand Name	Motorola (JWELL)	Model Name	ATOC



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. (Z Plane)

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	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
	5	v	v	v	v	-	-	v	v	-	v		v	v	v	v
	7	-	-	v	v	v	v	v	v	-	v		v	v	v	v
	13	-	-	v	v	-	-	v	v	-	v		v	v	v	v
	26	v	v	v	v	v	-	v	v	-	v		v	v	v	v
	38	-	-	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
Peak-to-Average Ratio	2						v	v	v	-			v		v	
	7	-	-				v	v	v	-			v		v	
	13	-	-		v	-	-	v	v	-			v		v	
	26					v	-	v	v	-			v		v	
	38	-	-				v	v	v	-			v		v	
	66						v	v	v	-			v		v	

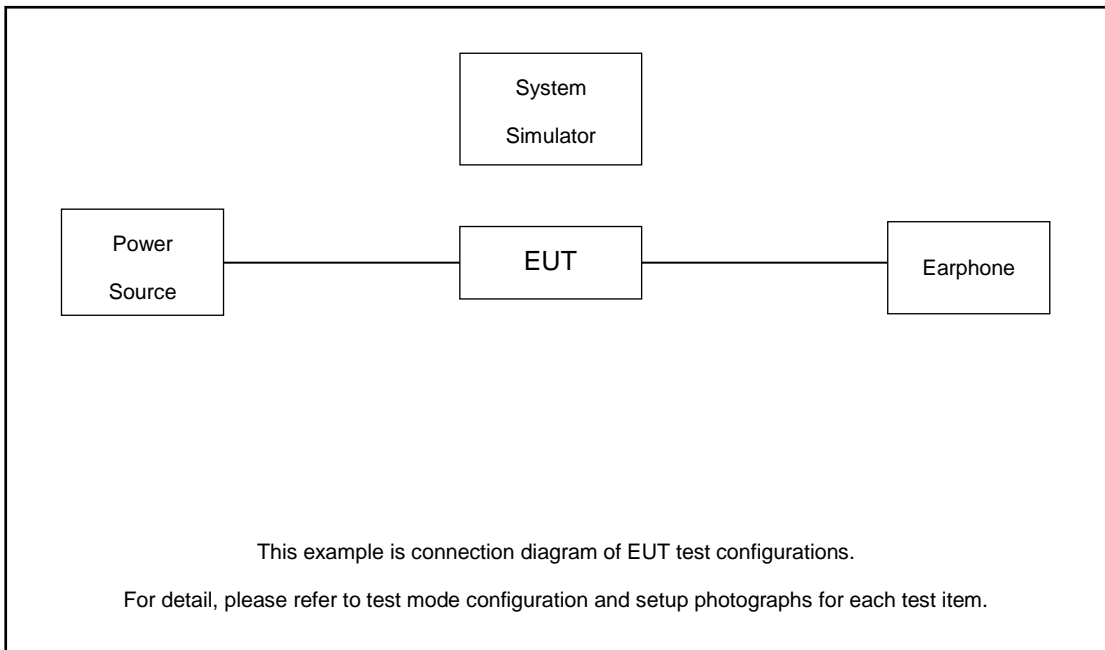


Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v	-			v		v	
	7	-	-	v	v	v	v	v	v	-			v		v	
	13	-	-	v	v	-	-	v	v	-			v		v	
	26	v	v	v	v	v	-	v	v	-			v		v	
	38	-	-	v	v	v	v	v	v	-			v		v	
	66	v	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
	7	-	-	v	v	v	v	v	v	-	v		v	v		v
	13	-	-	v	v	-	-	v	v	-	v		v	v		v
	26	v	v	v	v	v	-	v	v	-	v		v	v		v
	38	-	-	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
	7	-	-	v	v	v	v	v		-	v			v	v	v
	13	-	-	v	v	-	-	v		-	v			v	v	v
	26	v	v	v	v	v	-	v		-	v			v	v	v
	38	-	-	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	
	7	-	-		v			v		-			v		v	
	13	-	-		v	-	-	v		-			v		v	
	26				v		-	v		-			v		v	
	38	-	-		v			v		-			v		v	
	66				v			v		-			v		v	



Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
E.R.P / E.I.R.P	2	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
	5	v	v	v	v	-	-	v	v	-	v			v	v	v
	7	-	-	v	v	v	v	v	v	-	v			v	v	v
	13	-	-	v	v	-	-	v	v	-	v			v	v	v
	26	v	v	v	v	v	-	v	v	-	v			v	v	v
	38	-	-	v	v	v	v	v	v	-	v			v	v	v
	66	v	v	v	v	v	v	v	v	-	v			v	v	v
Radiated Spurious Emission	2	Worst Case												v		
	7	Worst Case												v		
	13	Worst Case												v		
	26	Worst Case												v		
	38	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. 															

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	MT8821C	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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 5.4 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 5.4 \text{ (dB)} \end{aligned}$$



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 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5



LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829	836.5	844
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

LTE Band 26 Cross-rule Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	-	Middle	-
15	Channel	-	26790	-
	Frequency	-	824	-
10	Channel	-	26790	-
	Frequency	-	824	-
5	Channel	-	26790	-
	Frequency	-	824	-
3	Channel	-	26790	-
	Frequency	-	824	-
1.4	Channel	-	26790	-
	Frequency	-	824	-



LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580	2595	2610
15	Channel	37825	38000	38175
	Frequency	2577.5	2595	2612.5
10	Channel	37800	38000	38200
	Frequency	2575	2595	2615
5	Channel	37775	38000	38225
	Frequency	2572.5	2595	2617.5

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

3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

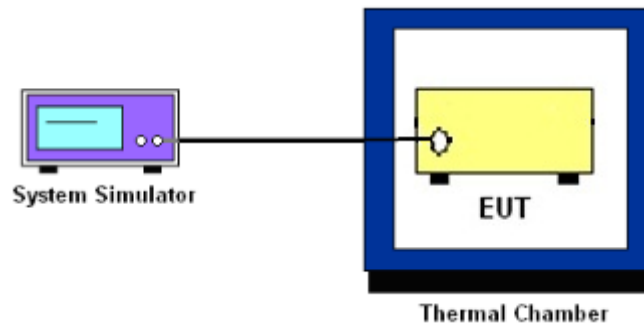
3.2.1 Conducted Output Power



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 and Band 26.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 13.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 7 and Band 38.

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(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(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 (c)

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

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(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.



27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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.
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:

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

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.

For Band 7,38:

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 $55 + 10 \log (P)$ 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)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.
11. For Band 7, 38
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.



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.

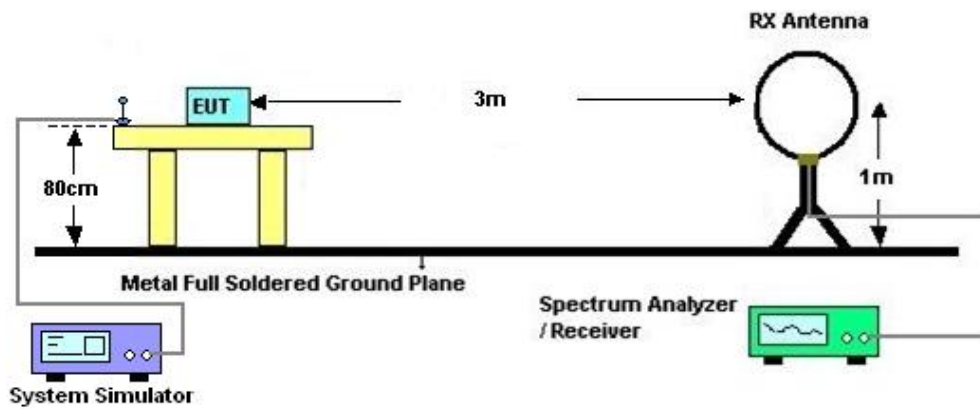
4 Radiated Test Items

4.1 Measuring Instruments

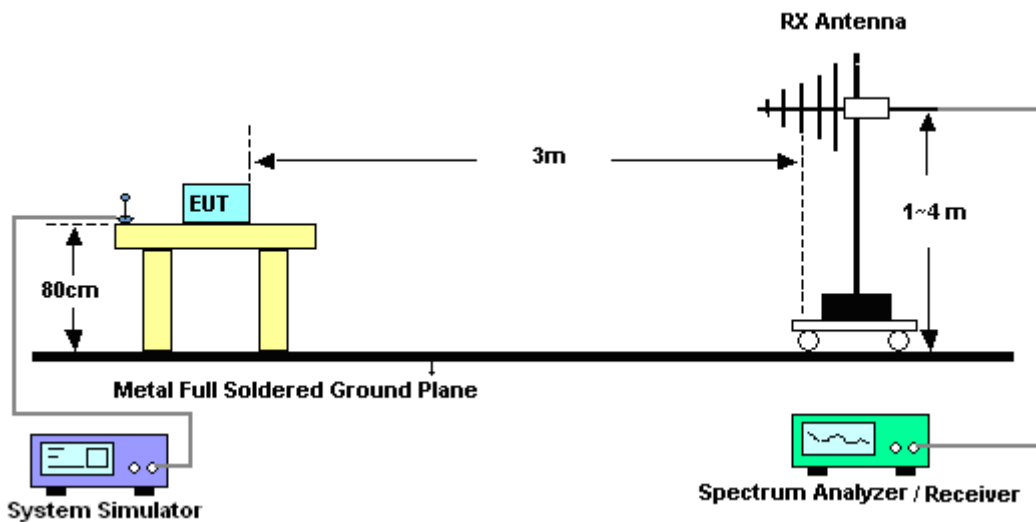
See list of measuring instruments of this test report.

4.2 Test Setup

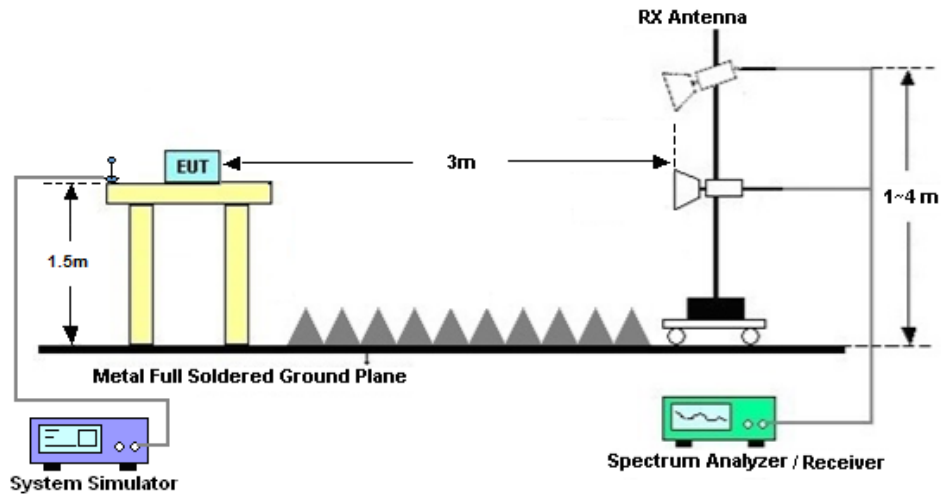
4.2.1 For radiated test below 30MHz



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.

For Band 7, 38

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 $55 + 10 \log (P)$ dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

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. $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11. $ERP (dBm) = EIRP - 2.15$
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	101040	10Hz~40GHz	Oct. 12, 2022	Apr. 04, 2023~ Apr. 07, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 25, 2022	Apr. 04, 2023~ Apr. 07, 2023	Aug. 24, 2023	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 15, 2022	Apr. 04, 2023~ Apr. 07, 2023	Jul. 14, 2023	Conducted (TH01-KS)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2022	May 05, 2023	Jul. 06, 2023	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	May 05, 2023	Jul. 27, 2024	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	-	30MHz~2GHz	Oct. 19, 2022	May 05, 2023	Oct. 18, 2023	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 07, 2022	May 05, 2023	Jul. 06, 2023	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 08, 2023	May 05, 2023	Apr. 07, 2024	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 19, 2022	May 05, 2023	Oct. 18, 2023	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 19, 2022	May 05, 2023	Oct. 18, 2023	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2022	May 05, 2023	Jul. 06, 2023	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Nov. 10, 2022	May 05, 2023	Nov. 10, 2023	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	May 05, 2023	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	May 05, 2023	NCR	Radiation (03CH02-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	±0.46 dB
Conducted Emissions	±0.48 dB
Occupied Channel Bandwidth	±0.1 %

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.47dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.31dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.72dB
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Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	Temperature :	22~23°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and ERP/EIRP

LTE Band 2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
							L	M	H
Channel				18700	18900	19100	EIRP(W)		
Frequency (MHz)				1860	1880	1900	L	M	H
20	QPSK	1	0	22.86	22.91	22.56	0.1683	0.1702	0.1570
20	QPSK	1	99	22.83	22.69	22.74	0.1671	0.1618	0.1637
20	QPSK	100	0	21.80	21.81	21.75	0.1318	0.1321	0.1303
20	16QAM	1	0	22.13	22.12	22.28	0.1422	0.1419	0.1472
Channel				18675	18900	19125	EIRP(W)		
Frequency (MHz)				1857.5	1880	1902.5	L	M	H
15	QPSK	1	0	22.72	22.74	22.49	0.1629	0.1637	0.1545
15	16QAM	1	0	22.03	21.99	21.90	0.1390	0.1377	0.1349
Channel				18650	18900	19150	EIRP(W)		
Frequency (MHz)				1855	1880	1905	L	M	H
10	QPSK	1	0	22.82	22.78	22.53	0.1667	0.1652	0.1560
10	16QAM	1	0	22.10	22.10	21.89	0.1413	0.1413	0.1346
Channel				18625	18900	19175	EIRP(W)		
Frequency (MHz)				1852.5	1880	1907.5	L	M	H
5	QPSK	1	0	22.84	22.88	22.54	0.1675	0.1690	0.1563
5	16QAM	1	0	22.15	21.98	21.83	0.1429	0.1374	0.1327
Channel				18615	18900	19185	EIRP(W)		
Frequency (MHz)				1851.5	1880	1908.5	L	M	H
3	QPSK	1	0	22.75	22.85	22.36	0.1641	0.1679	0.1500
3	16QAM	1	0	21.93	22.10	21.97	0.1358	0.1413	0.1371
Channel				18607	18900	19193	EIRP(W)		
Frequency (MHz)				1850.7	1880	1909.3	L	M	H
1.4	QPSK	1	0	22.86	22.74	22.38	0.1683	0.1637	0.1507
1.4	16QAM	1	0	21.73	21.60	21.55	0.1297	0.1259	0.1245



LTE Band 4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20050	20175	20300	EIRP(W)		
Frequency (MHz)				1720	1732.5	1745	L	M	H
20	QPSK	1	0	23.18	23.26	23.21	0.1374	0.1400	0.1384
20	QPSK	1	99	23.20	23.23	23.24	0.1380	0.1390	0.1393
20	QPSK	100	0	22.14	22.20	22.17	0.1081	0.1096	0.1089
20	16QAM	1	0	22.76	22.75	22.70	0.1247	0.1245	0.1230
Channel				20025	20175	20325	EIRP(W)		
Frequency (MHz)				1717.5	1732.5	1747.5	L	M	H
15	QPSK	1	0	23.15	23.07	23.12	0.1365	0.1340	0.1355
15	16QAM	1	0	22.71	22.60	22.50	0.1233	0.1202	0.1175
Channel				20000	20175	20350	EIRP(W)		
Frequency (MHz)				1715	1732.5	1750	L	M	H
10	QPSK	1	0	23.19	23.24	23.16	0.1377	0.1393	0.1368
10	16QAM	1	0	22.74	22.55	22.54	0.1242	0.1189	0.1186
Channel				19975	20175	20375	EIRP(W)		
Frequency (MHz)				1712.5	1732.5	1752.5	L	M	H
5	QPSK	1	0	23.19	23.15	23.13	0.1377	0.1365	0.1358
5	16QAM	1	0	22.76	22.72	22.71	0.1247	0.1236	0.1233
Channel				19965	20175	20385	EIRP(W)		
Frequency (MHz)				1711.5	1732.5	1753.5	L	M	H
3	QPSK	1	0	23.04	23.13	23.10	0.1330	0.1358	0.1349
3	16QAM	1	0	22.55	22.65	22.61	0.1189	0.1216	0.1205
Channel				19950	20175	20393	EIRP(W)		
Frequency (MHz)				1710	1732.5	1754.3	L	M	H
1.4	QPSK	1	0	23.17	23.12	23.03	0.1371	0.1355	0.1327
1.4	16QAM	1	0	22.05	22.06	22.11	0.1059	0.1062	0.1074



LTE Band 5:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				20450	20525	20600	ERP(W)		
Frequency (MHz)				829	836.5	844	L	M	H
10	QPSK	1	0	23.05	23.23	23.14	0.0355	0.0370	0.0362
10	QPSK	1	49	23.10	23.21	23.14	0.0359	0.0368	0.0362
10	QPSK	50	0	22.05	22.20	22.04	0.0282	0.0292	0.0281
10	16QAM	1	0	22.13	22.23	22.16	0.0287	0.0294	0.0289
Channel				20425	20525	20625	ERP(W)		
Frequency (MHz)				826.5	836.5	846.5	L	M	H
5	QPSK	1	0	22.89	23.16	23.07	0.0342	0.0364	0.0356
5	16QAM	1	0	22.15	22.06	21.95	0.0288	0.0282	0.0275
Channel				20415	20525	20635	ERP(W)		
Frequency (MHz)				825.5	836.5	847.5	L	M	H
3	QPSK	1	0	23.06	23.02	22.95	0.0356	0.0352	0.0347
3	16QAM	1	0	21.97	22.03	22.15	0.0277	0.0281	0.0288
Channel				20407	20525	20643	ERP(W)		
Frequency (MHz)				824.7	836.5	848.3	L	M	H
1.4	QPSK	1	0	22.96	23.21	23.09	0.0348	0.0368	0.0358
1.4	16QAM	1	0	22.11	22.16	22.04	0.0286	0.0289	0.0281



LTE Band 7:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20850	20850	21350			
Frequency (MHz)				2510	2535	2560	L	M	H
20	QPSK	1	0	23.05	23.11	23.04	0.1718	0.1742	0.1714
20	QPSK	1	99	23.03	23.05	23.02	0.1710	0.1718	0.1706
20	QPSK	100	0	22.03	22.09	22.06	0.1358	0.1377	0.1368
20	16QAM	1	0	22.67	22.75	22.72	0.1574	0.1603	0.1592
Channel				20825	21100	21375	EIRP(W)		
Frequency (MHz)				2507.5	2535	2562.5	L	M	H
15	QPSK	1	0	22.89	22.98	23.03	0.1656	0.1690	0.1710
15	16QAM	1	0	22.64	22.34	22.65	0.1563	0.1459	0.1567
Channel				20800	21100	21400	EIRP(W)		
Frequency (MHz)				2505	2535	2565	L	M	H
10	QPSK	1	0	23.05	23.07	22.95	0.1718	0.1726	0.1679
10	16QAM	1	0	22.47	22.44	22.61	0.1503	0.1493	0.1552
Channel				20775	21100	21425	EIRP(W)		
Frequency (MHz)				2502.5	2535	2567.5	L	M	H
5	QPSK	1	0	22.94	22.94	22.98	0.1675	0.1675	0.1690
5	16QAM	1	0	22.53	22.37	22.73	0.1524	0.1469	0.1596

LTE Band 13:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23230					
Frequency (MHz)				782				M	
10	QPSK	1	0		23.06			0.0381	
10	QPSK	1	49		23.02			0.0378	
10	QPSK	50	0		22.11			0.0306	
10	16QAM	1	0		22.22			0.0314	
Channel				23205	23230	23255	ERP(W)		
Frequency (MHz)				779.5	782	784.5	L	M	H
5	QPSK	1	0	22.97	23.04	23.00	0.0373	0.0379	0.0376
5	16QAM	1	0	22.00	22.17	22.12	0.0299	0.0310	0.0307



LTE Band 26:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)			
Channel				26790	26865	26915	26965				
Frequency (MHz)				824	831.5	836.5	841.5	Straddle Ch	L	M	H
15	QPSK	1	0	23.25	23.24	23.13	23.12	0.0372	0.0371	0.0361	0.0361
15	QPSK	1	74	23.06	23.18	23.09	23.17	0.0356	0.0366	0.0358	0.0365
15	QPSK	75	0	22.18	22.22	22.25	22.07	0.0290	0.0293	0.0295	0.0283
15	16QAM	1	0	22.03	22.21	22.27	22.14	0.0281	0.0292	0.0296	0.0288
Channel					26840	26915	26990	ERP(W)			
Frequency (MHz)					829	836.5	844		L	M	H
10	QPSK	1	0		22.96	23.04	23.02		0.0348	0.0354	0.0352
10	16QAM	1	0		21.95	21.96	21.93		0.0275	0.0276	0.0274
Channel					26815	26915	27015	ERP(W)			
Frequency (MHz)					826.5	836.5	846.5		L	M	H
5	QPSK	1	0		23.01	23.00	23.00		0.0352	0.0351	0.0351
5	16QAM	1	0		21.96	21.91	21.97		0.0276	0.0273	0.0277
Channel					26815	26915	27025	ERP(W)			
Frequency (MHz)					825.5	836.5	847.5		L	M	H
3	QPSK	1	0		22.92	22.91	22.96		0.0344	0.0344	0.0348
3	16QAM	1	0		22.00	21.96	22.09		0.0279	0.0276	0.0284
Channel					26797	26915	27033	ERP(W)			
Frequency (MHz)					824.7	836.5	848.3		L	M	H
1.4	QPSK	1	0		23.00	23.01	23.09		0.0351	0.0352	0.0358
1.4	16QAM	1	0		21.92	21.96	21.94		0.0274	0.0276	0.0275



LTE Band 38:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				37850	38000	38150	EIRP(W)		
Frequency (MHz)				2580	2595	2610	L	M	H
20	QPSK	1	0	22.42	22.59	22.51	0.1486	0.1545	0.1517
20	QPSK	1	99	22.34	22.45	22.43	0.1459	0.1496	0.1489
20	QPSK	100	0	21.43	21.56	21.35	0.1183	0.1219	0.1161
20	16QAM	1	0	21.89	22.01	21.77	0.1315	0.1352	0.1279
Channel				37825	38000	38175	EIRP(W)		
Frequency (MHz)				2577.5	2595	2612.5	L	M	H
15	QPSK	1	0	22.20	22.45	22.42	0.1413	0.1496	0.1486
15	16QAM	1	0	21.73	21.89	21.55	0.1268	0.1315	0.1216
Channel				37800	38000	38200	EIRP(W)		
Frequency (MHz)				2575	2595	2615	L	M	H
10	QPSK	1	0	22.40	22.49	22.47	0.1479	0.1510	0.1503
10	16QAM	1	0	21.83	21.97	21.71	0.1297	0.1340	0.1262
Channel				37775	38000	38225	EIRP(W)		
Frequency (MHz)				2572.5	2595	2617.5	L	M	H
5	QPSK	1	0	22.25	22.40	22.51	0.1429	0.1479	0.1517
5	16QAM	1	0	21.84	21.84	21.68	0.1300	0.1300	0.1253



LTE Band 66:

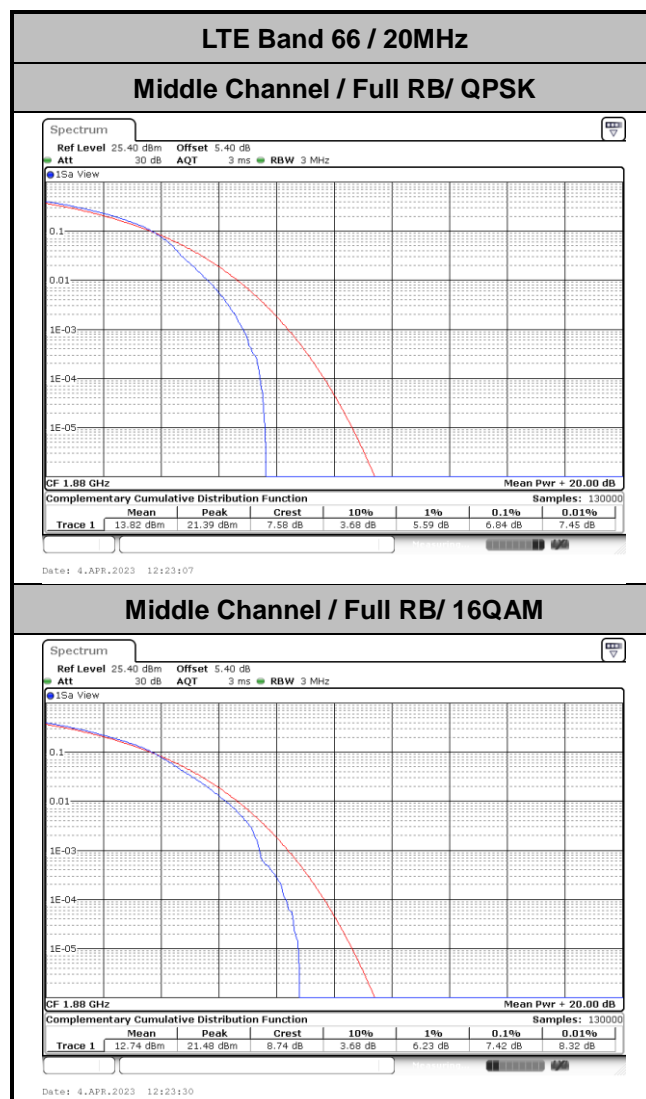
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				132072	132322	132572	EIRP(W)		
Frequency (MHz)				1720	1745	1770	L	M	H
20	QPSK	1	0	22.97	23.26	23.25	0.1309	0.1400	0.1396
20	QPSK	1	99	23.14	23.21	23.13	0.1361	0.1384	0.1358
20	QPSK	100	0	22.13	22.22	22.10	0.1079	0.1102	0.1072
20	16QAM	1	0	22.29	22.49	22.37	0.1119	0.1172	0.1140
Channel				132047	132322	132597	EIRP(W)		
Frequency (MHz)				1717.5	1745	1772.5	L	M	H
15	QPSK	1	0	22.99	23.18	23.14	0.1315	0.1374	0.1361
15	16QAM	1	0	22.19	22.35	22.26	0.1094	0.1135	0.1112
Channel				132022	132322	132622	EIRP(W)		
Frequency (MHz)				1715	1745	1775	L	M	H
10	QPSK	1	0	22.93	23.08	23.20	0.1297	0.1343	0.1380
10	16QAM	1	0	22.30	22.32	22.30	0.1122	0.1127	0.1122
Channel				131997	132322	132647	EIRP(W)		
Frequency (MHz)				1712.5	1745	1777.5	L	M	H
5	QPSK	1	0	22.97	23.15	23.12	0.1309	0.1365	0.1355
5	16QAM	1	0	22.27	22.22	22.18	0.1114	0.1102	0.1091
Channel				131987	132322	132657	EIRP(W)		
Frequency (MHz)				1711.5	1745	1778.5	L	M	H
3	QPSK	1	0	22.92	23.14	23.24	0.1294	0.1361	0.1393
3	16QAM	1	0	22.13	22.45	22.37	0.1079	0.1161	0.1140
Channel				131979	132322	132665	EIRP(W)		
Frequency (MHz)				1710.7	1745	1779.3	L	M	H
1.4	QPSK	1	0	22.98	23.25	23.06	0.1312	0.1396	0.1337
1.4	16QAM	1	0	21.96	22.08	22.08	0.1038	0.1067	0.1067



LTE Band 2

Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz			
Mod.	QPSK	16QAM		Limit: 13dB
RB Size	Full RB	Full RB		Result
Middle CH	6.84	7.42		PASS





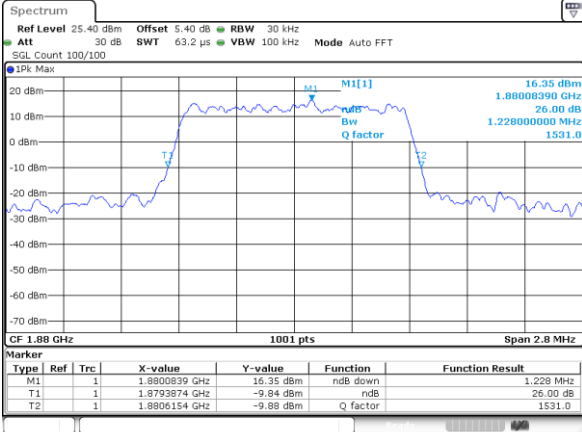
26dB Bandwidth

Mode	LTE Band 2 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.23	1.23
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.06	3.01
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.92	4.92
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.73	10.01
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.24	14.36
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.26	19.38



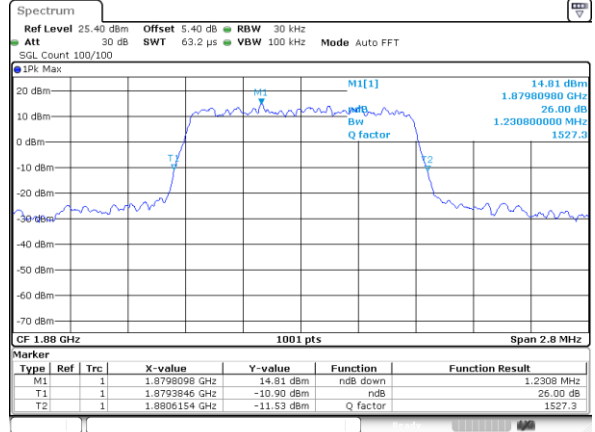
LTE Band 2

Middle Channel / 1.4MHz / QPSK



Date: 4.APR.2023 12:24:37

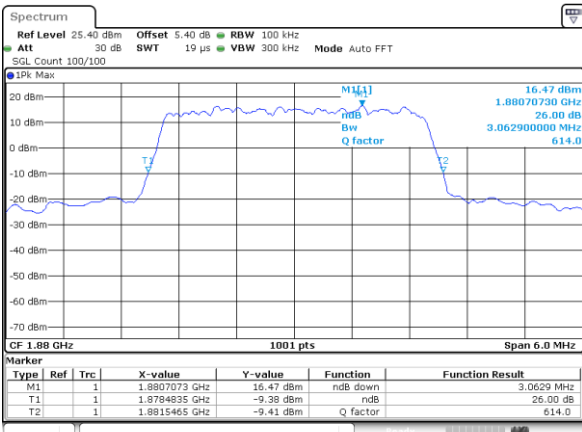
Middle Channel / 1.4MHz / 16QAM



Date: 4.APR.2023 12:24:58

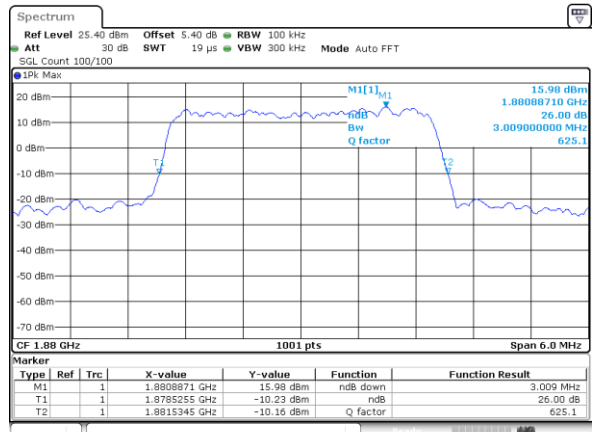
LTE Band 2

Middle Channel / 3MHz / QPSK



Date: 4.APR.2023 12:26:03

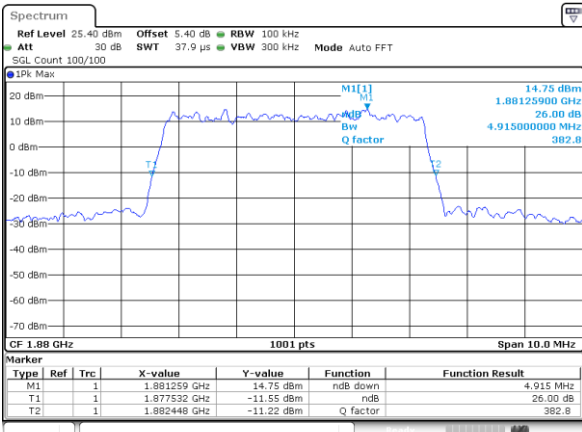
Middle Channel / 3MHz / 16QAM



Date: 4.APR.2023 12:26:24

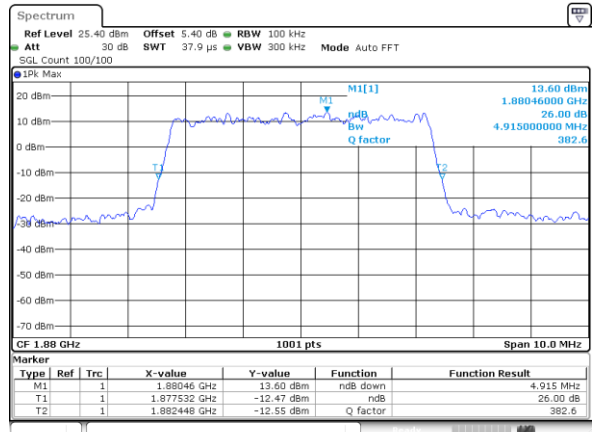
LTE Band 2

Middle Channel / 5MHz / QPSK



Date: 4.APR.2023 12:27:48

Middle Channel / 5MHz / 16QAM

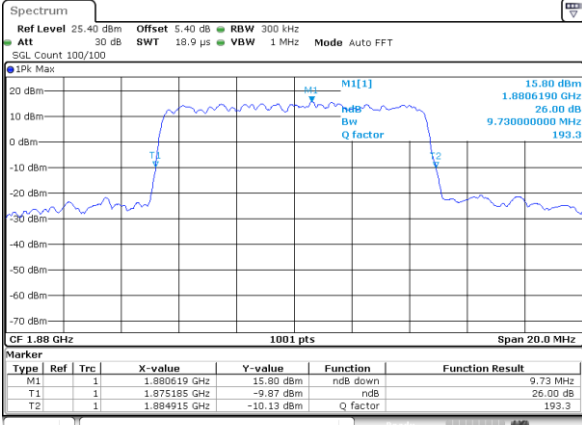


Date: 4.APR.2023 12:28:10



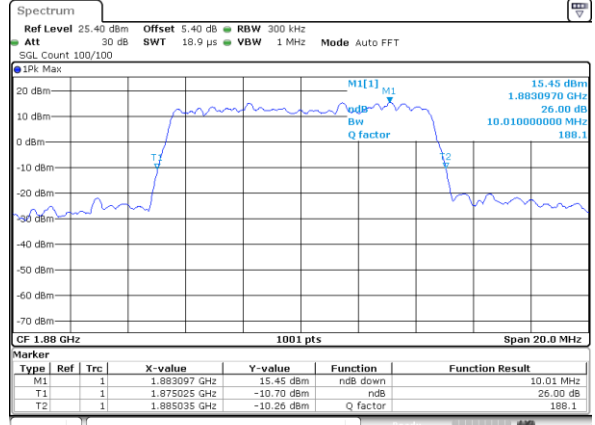
LTE Band 2

Middle Channel / 10MHz / QPSK



Date: 4.APR.2023 12:29:14

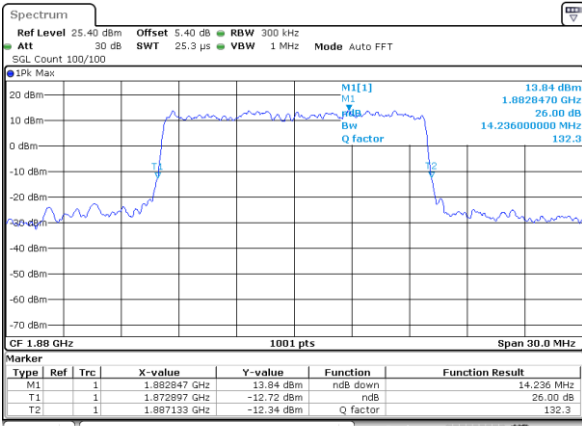
Middle Channel / 10MHz / 16QAM



Date: 4.APR.2023 12:29:36

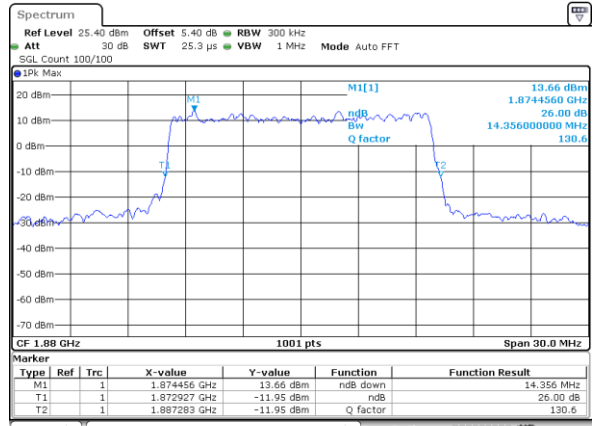
LTE Band 2

Middle Channel / 15MHz / QPSK



Date: 4.APR.2023 12:30:40

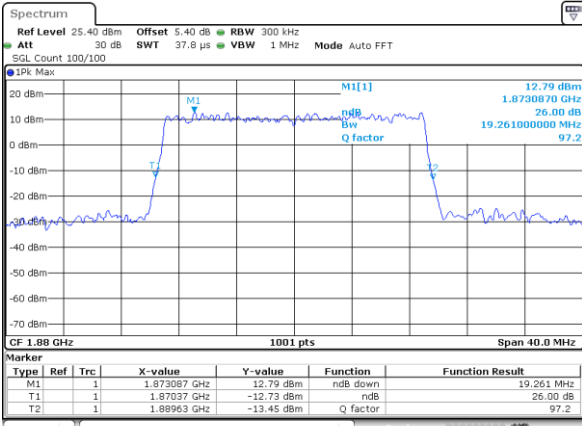
Middle Channel / 15MHz / 16QAM



Date: 4.APR.2023 12:31:02

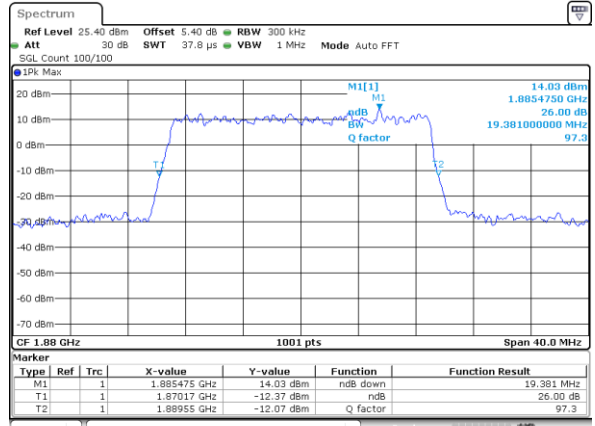
LTE Band 2

Middle Channel / 20MHz / QPSK



Date: 4.APR.2023 12:22:02

Middle Channel / 20MHz / 16QAM



Date: 4.APR.2023 12:22:23



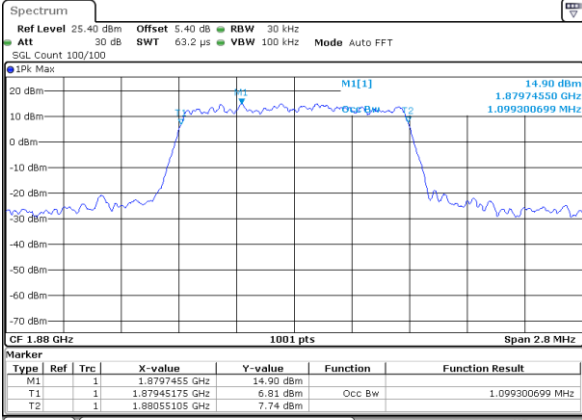
Occupied Bandwidth

Mode	LTE Band 2 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.10	1.09
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.72	2.72
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.47	4.49
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.09	9.01
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.46	13.37
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.86	17.94



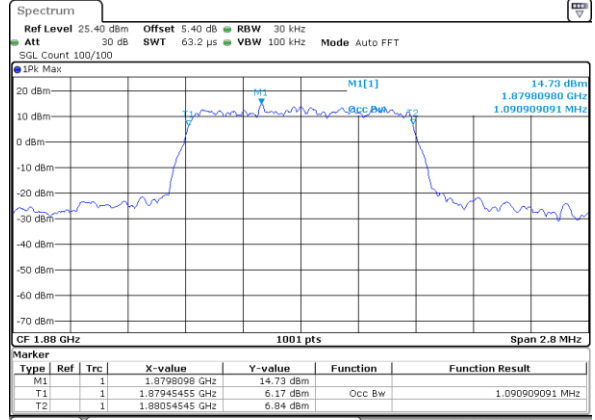
LTE Band 2

Middle Channel / 1.4MHz / QPSK



Date: 4.APR.2023 12:24:15

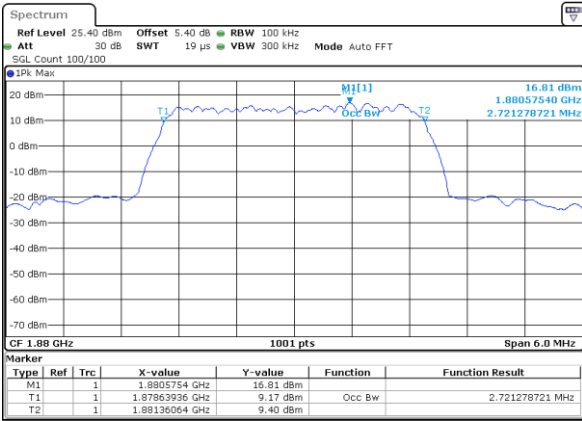
Middle Channel / 1.4MHz / 16QAM



Date: 4.APR.2023 12:25:20

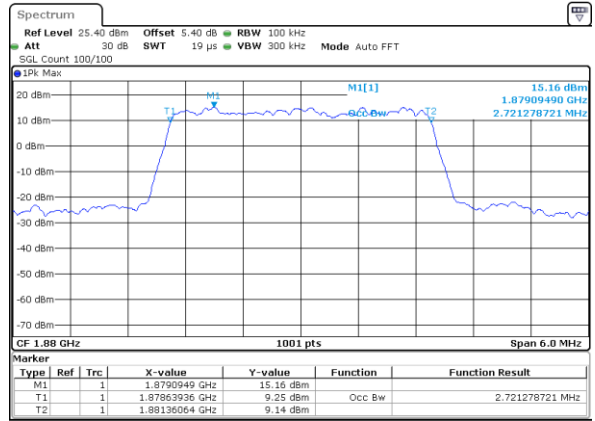
LTE Band 2

Middle Channel / 3MHz / QPSK



Date: 4.APR.2023 12:25:42

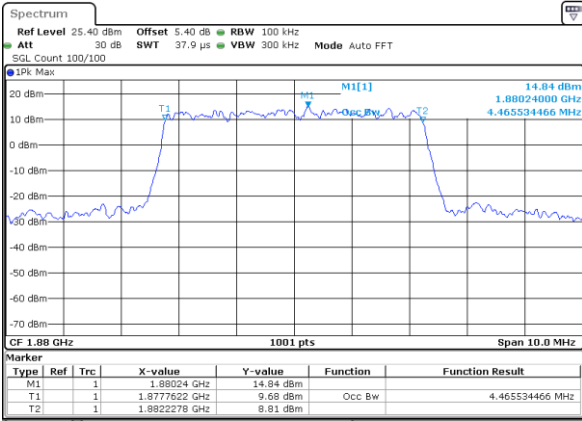
Middle Channel / 3MHz / 16QAM



Date: 4.APR.2023 12:26:46

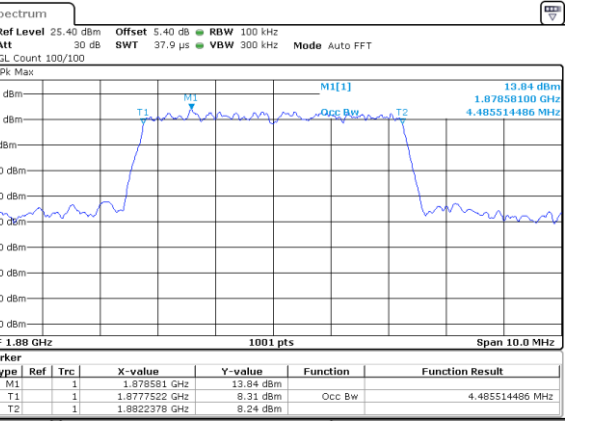
LTE Band 2

Middle Channel / 5MHz / QPSK



Date: 4.APR.2023 12:27:08

Middle Channel / 5MHz / 16QAM

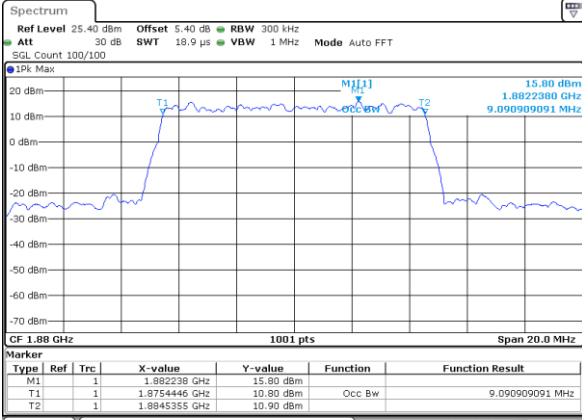


Date: 4.APR.2023 12:28:31



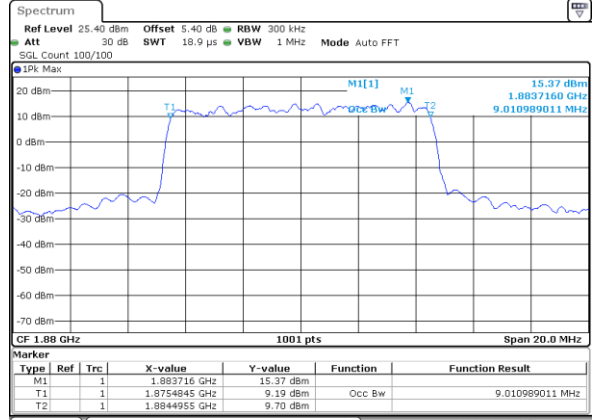
LTE Band 2

Middle Channel / 10MHz / QPSK



Date: 4.APR.2023 12:28:53

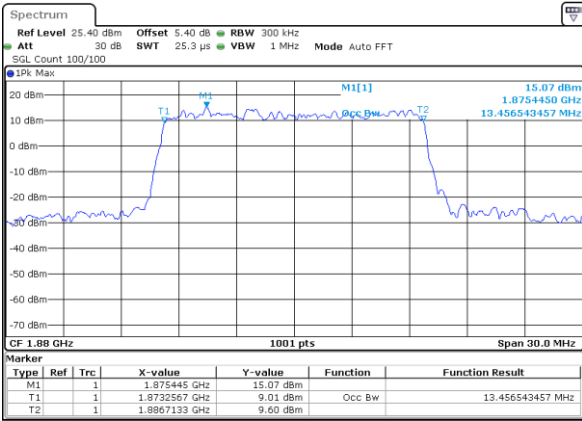
Middle Channel / 10MHz / 16QAM



Date: 4.APR.2023 12:29:57

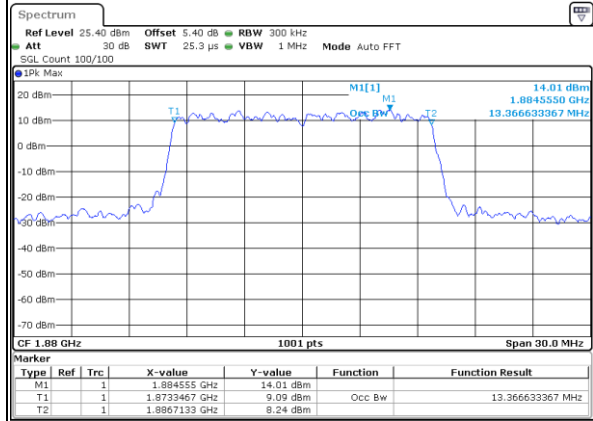
LTE Band 2

Middle Channel / 15MHz / QPSK



Date: 4.APR.2023 12:30:19

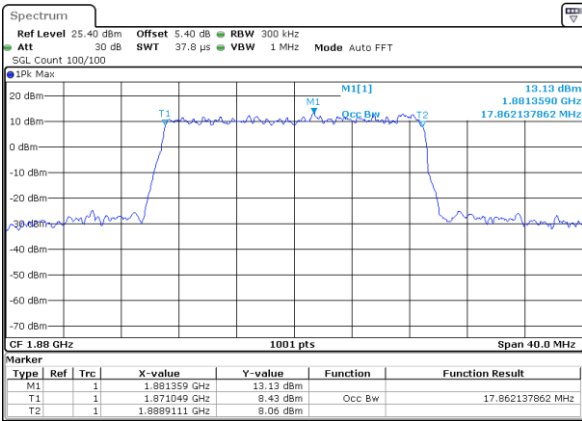
Middle Channel / 15MHz / 16QAM



Date: 4.APR.2023 12:31:23

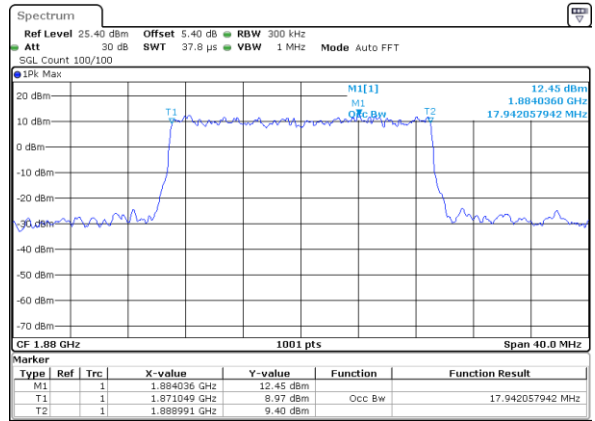
LTE Band 2

Middle Channel / 20MHz / QPSK



Date: 4.APR.2023 12:21:40

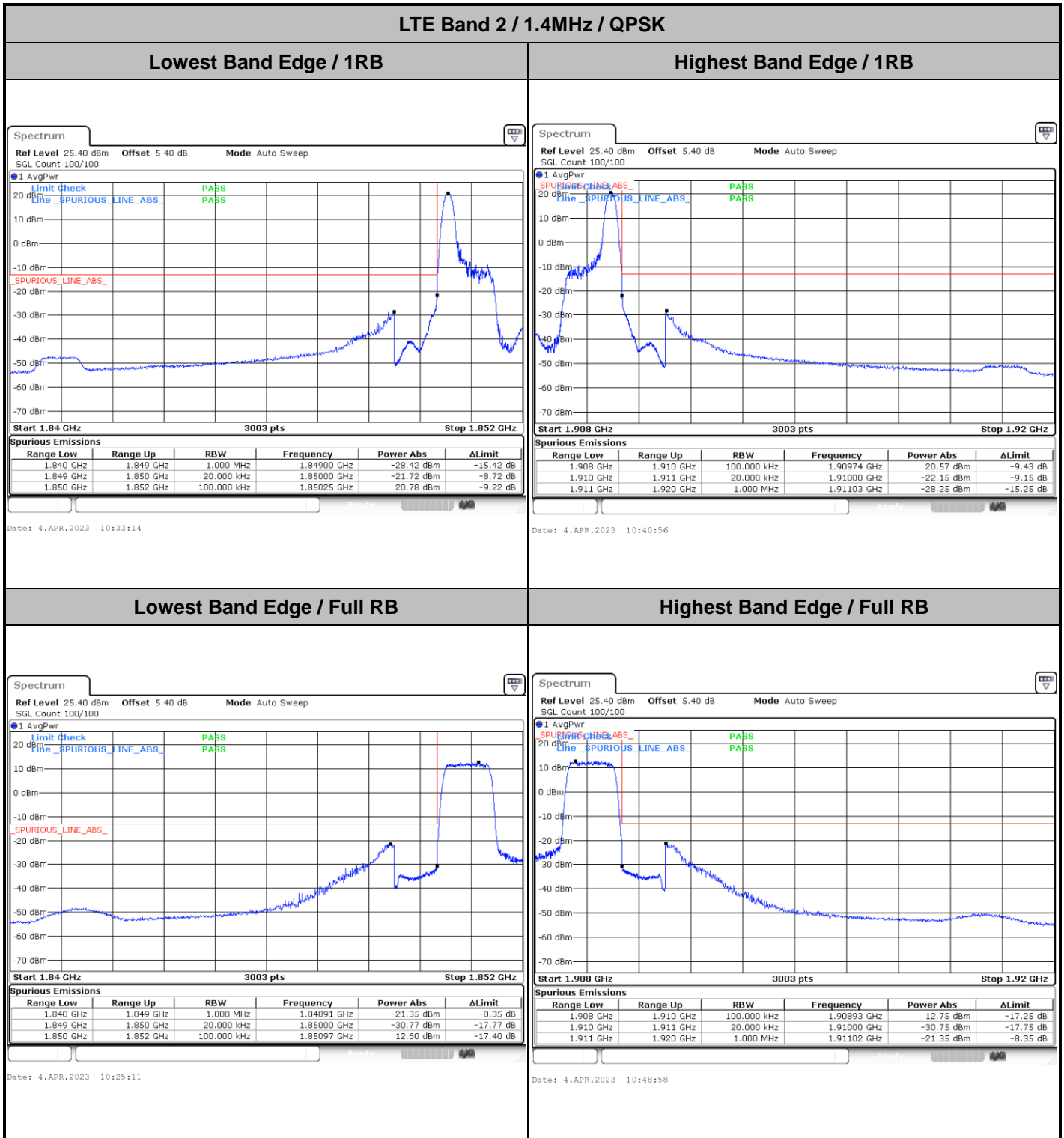
Middle Channel / 20MHz / 16QAM



Date: 4.APR.2023 12:22:45



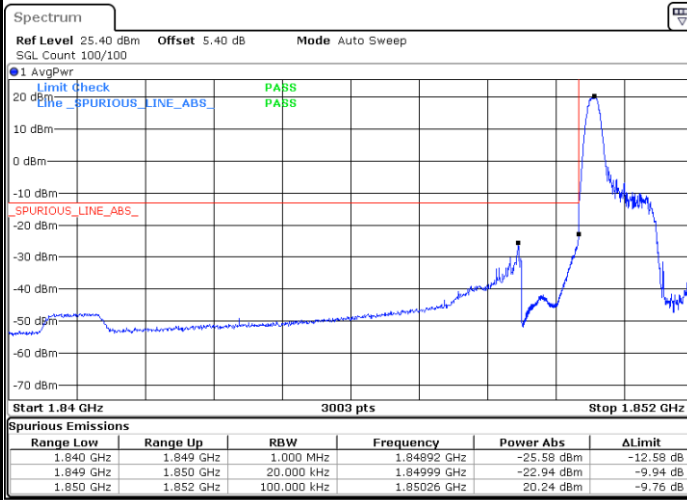
Conducted Band Edge





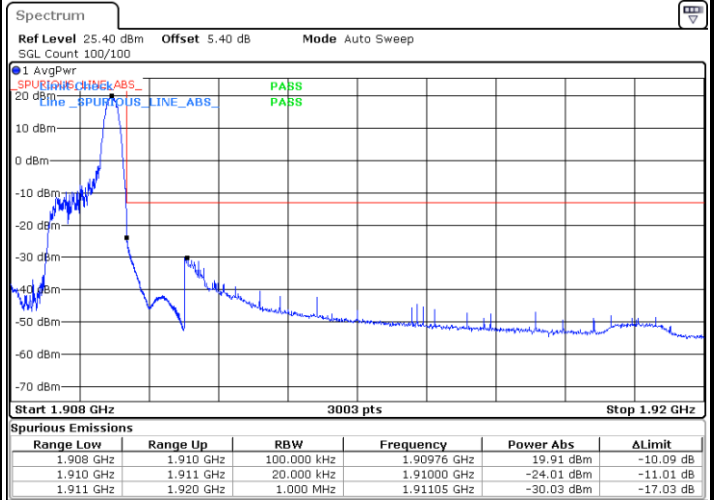
LTE Band 2 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



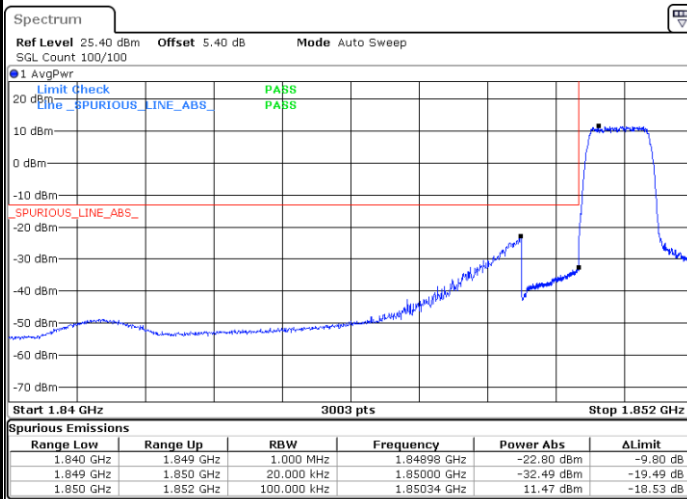
Date: 4.APR.2023 10:31:37

Highest Band Edge / 1 RB



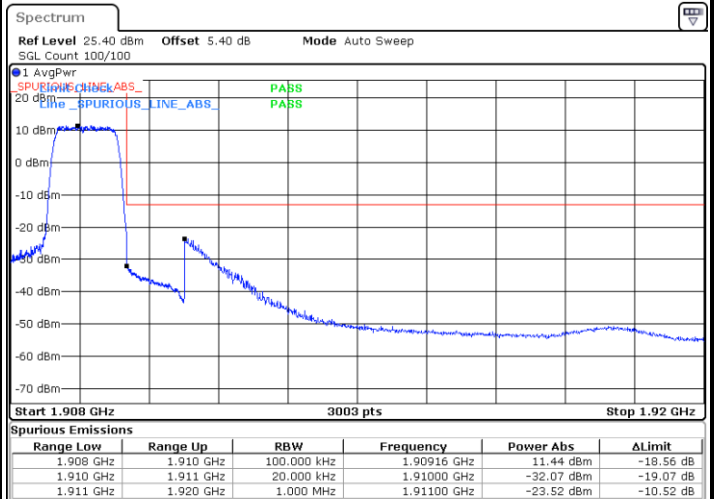
Date: 4.APR.2023 10:42:33

Lowest Band Edge / Full RB



Date: 4.APR.2023 10:26:48

Highest Band Edge / Full RB

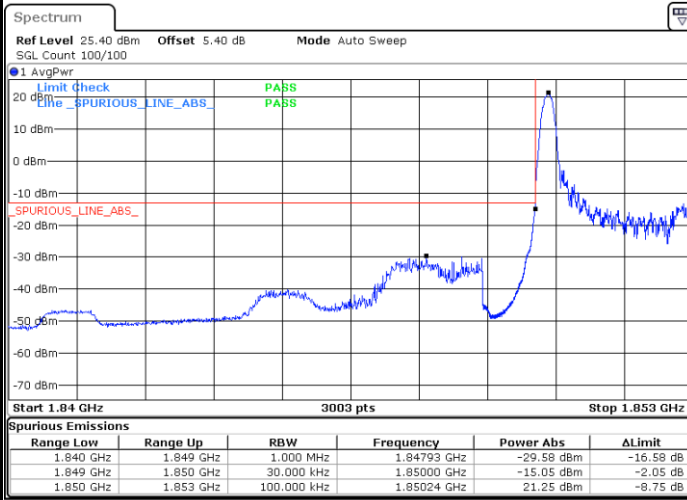


Date: 4.APR.2023 10:47:22



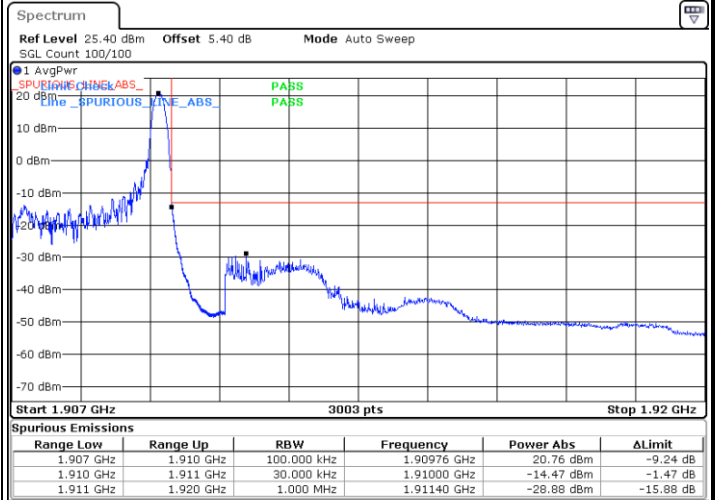
LTE Band 2 / 3MHz / QPSK

Lowest Band Edge / 1RB



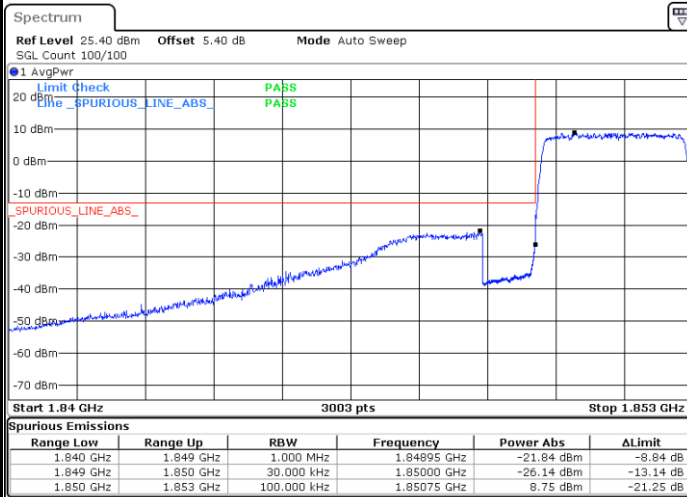
Date: 4.APR.2023 10:58:37

Highest Band Edge / 1 RB



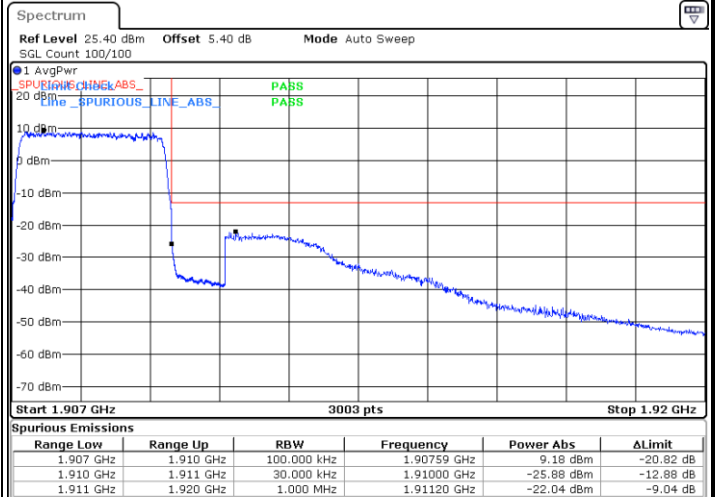
Date: 4.APR.2023 11:06:21

Lowest Band Edge / Full RB



Date: 4.APR.2023 10:50:35

Highest Band Edge / Full RB

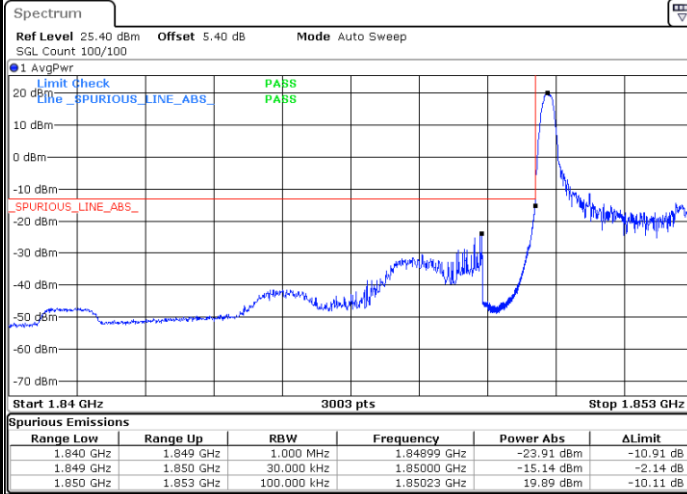


Date: 4.APR.2023 11:14:25



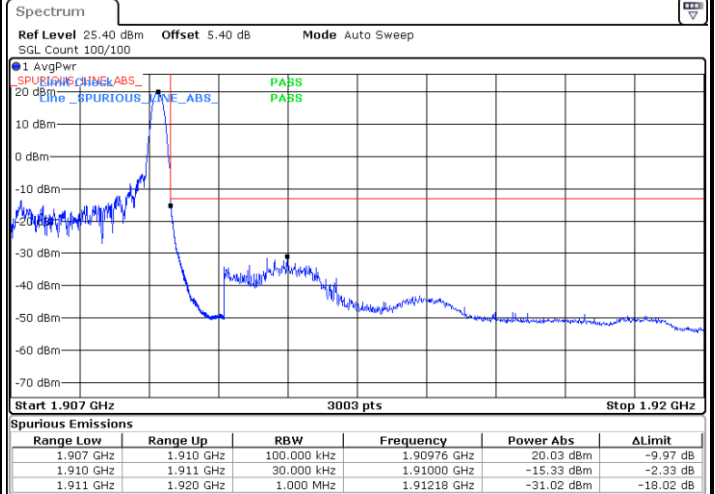
LTE Band 2 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



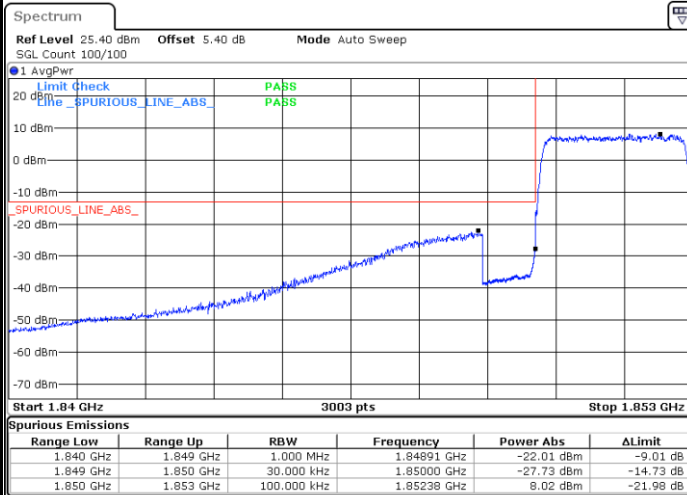
Date: 4.APR.2023 10:57:00

Highest Band Edge / 1 RB



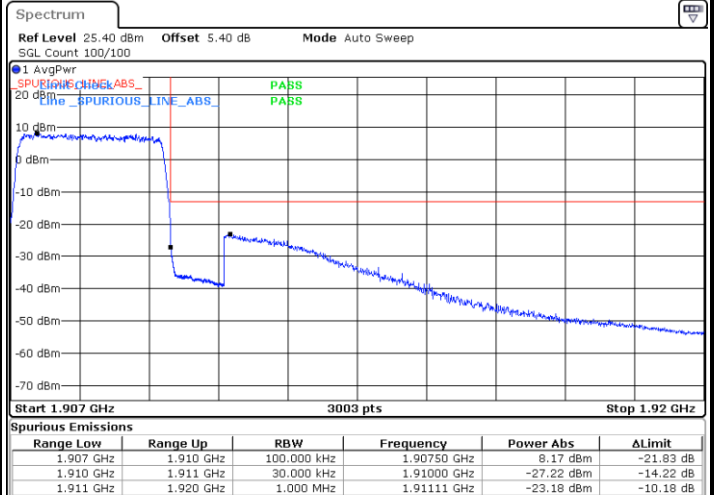
Date: 4.APR.2023 11:07:58

Lowest Band Edge / Full RB



Date: 4.APR.2023 10:52:12

Highest Band Edge / Full RB

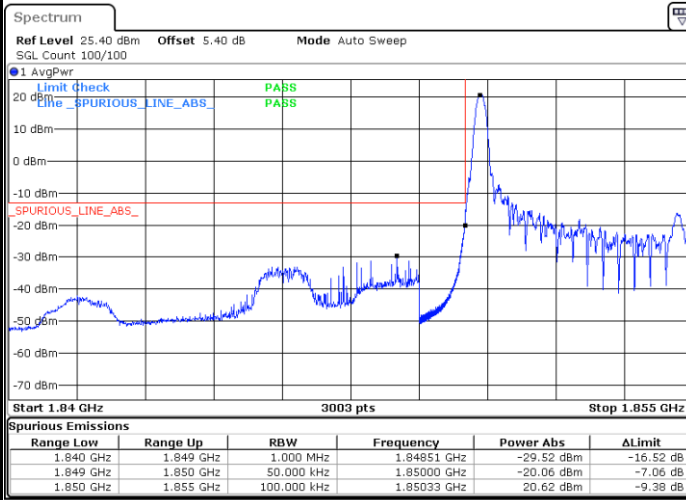


Date: 4.APR.2023 11:12:48



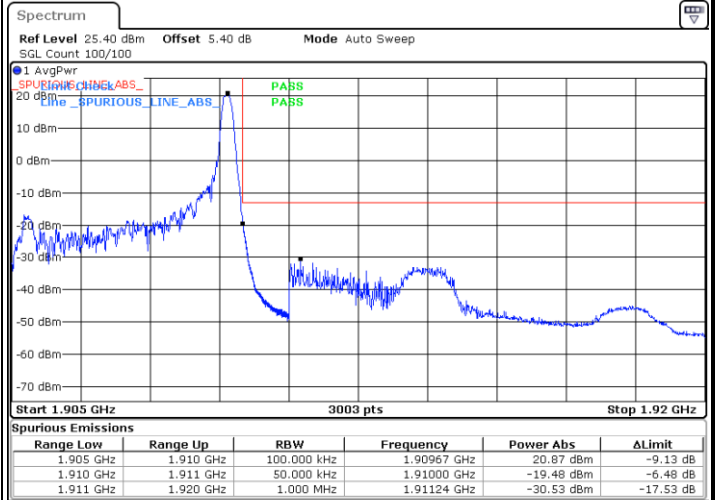
LTE Band 2 / 5MHz / QPSK

Lowest Band Edge / 1 RB



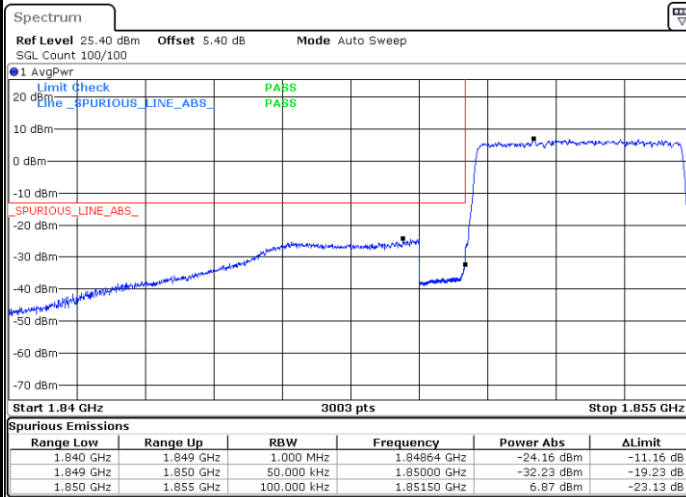
Date: 4.APR.2023 11:22:04

Highest Band Edge / 1 RB



Date: 4.APR.2023 11:29:10

Lowest Band Edge / Full RB



Date: 4.APR.2023 11:16:02

Highest Band Edge / Full RB

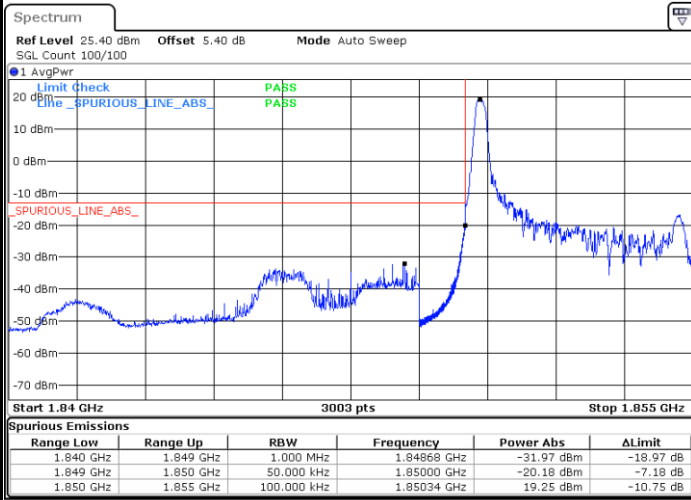


Date: 4.APR.2023 11:33:51



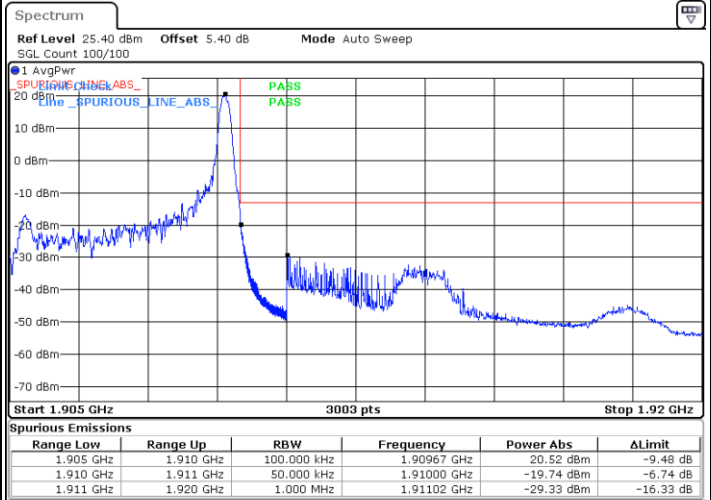
LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / 1RB



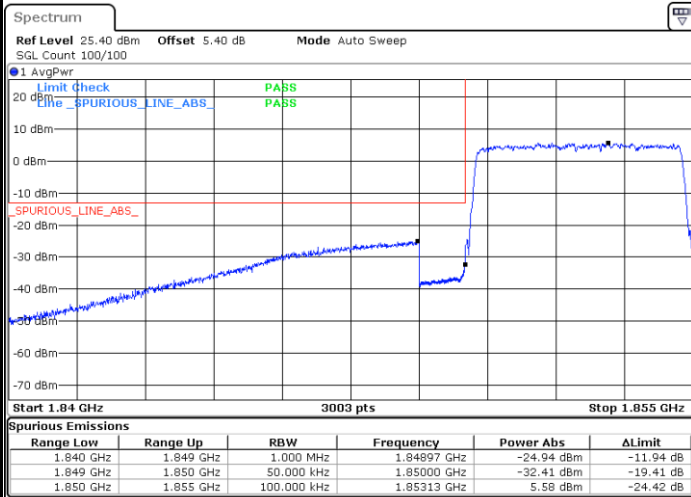
Date: 4.APR.2023 11:21:08

Highest Band Edge / 1 RB



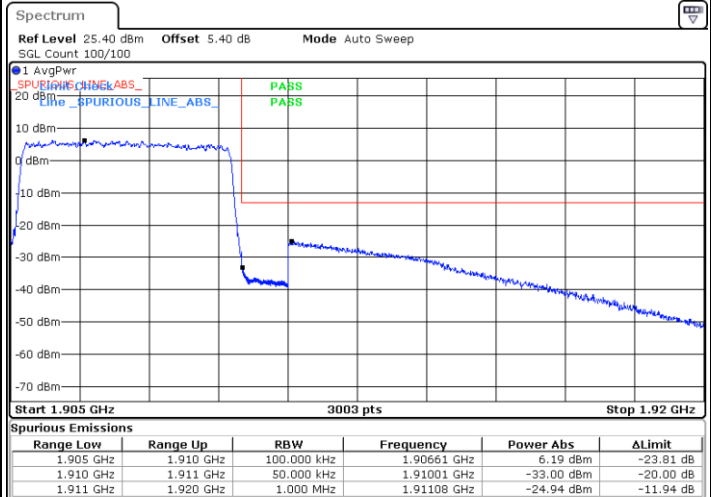
Date: 4.APR.2023 11:30:06

Lowest Band Edge / Full RB



Date: 4.APR.2023 11:17:39

Highest Band Edge / Full RB

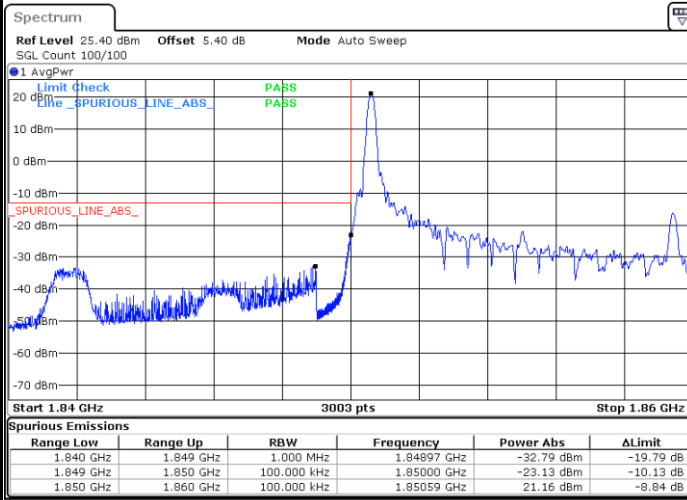


Date: 4.APR.2023 11:32:55



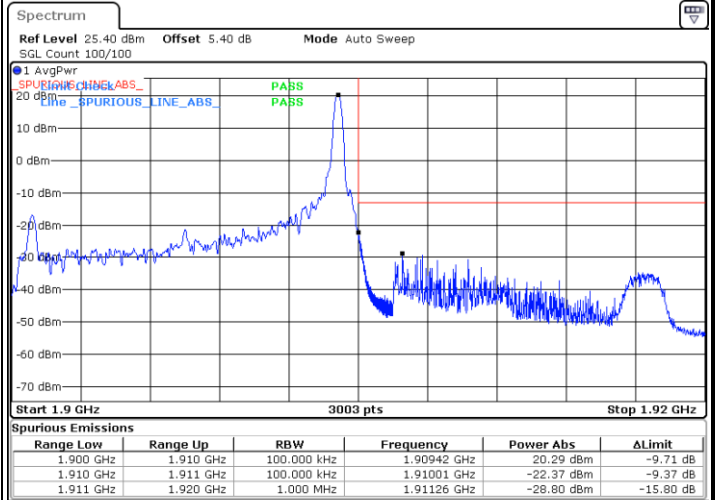
LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / 1 RB



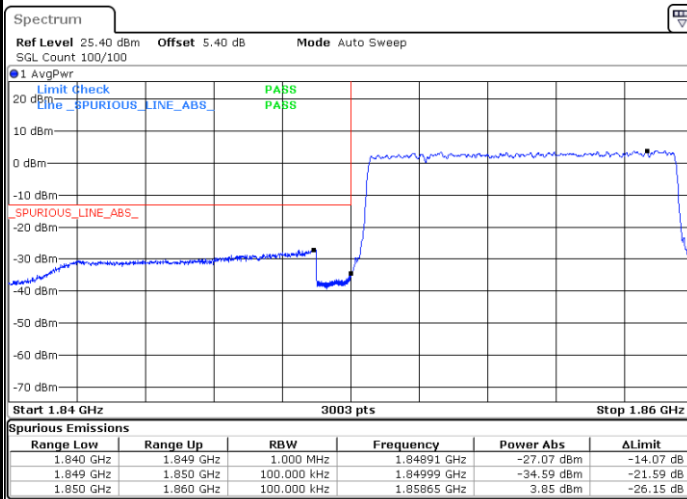
Date: 4.APR.2023 11:39:29

Highest Band Edge / 1 RB



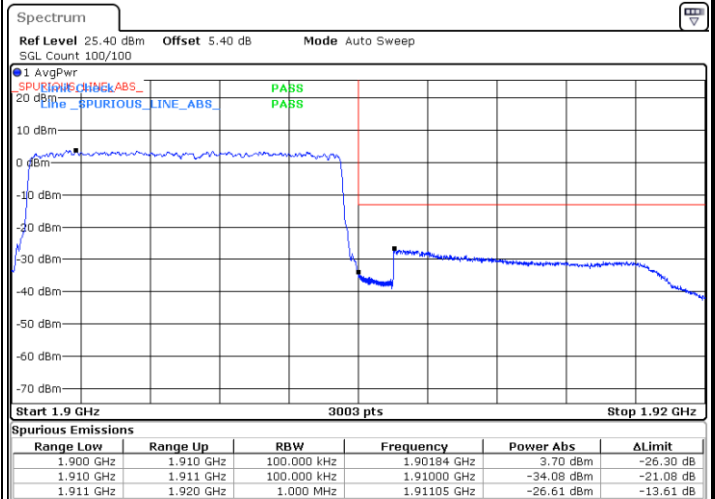
Date: 4.APR.2023 11:46:33

Lowest Band Edge / Full RB



Date: 4.APR.2023 11:34:48

Highest Band Edge / Full RB

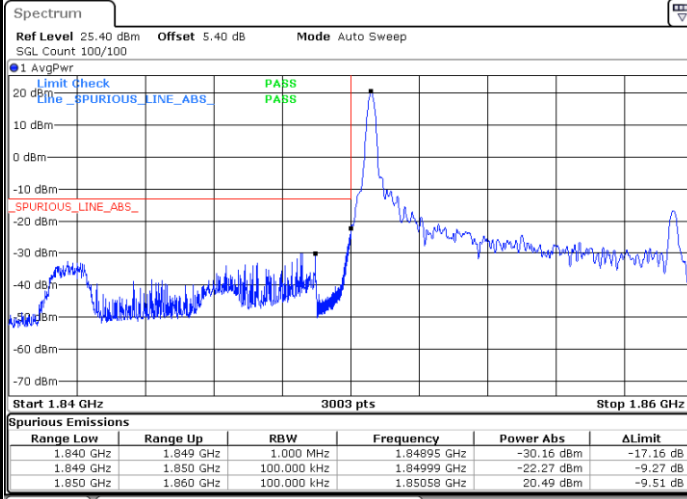


Date: 4.APR.2023 11:50:34



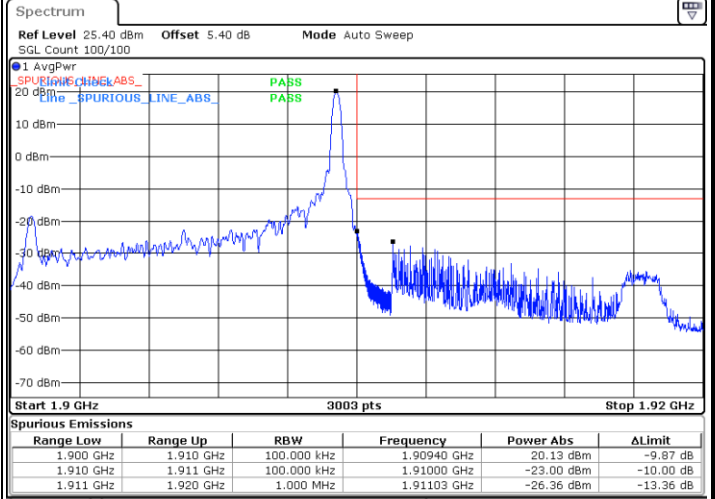
LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



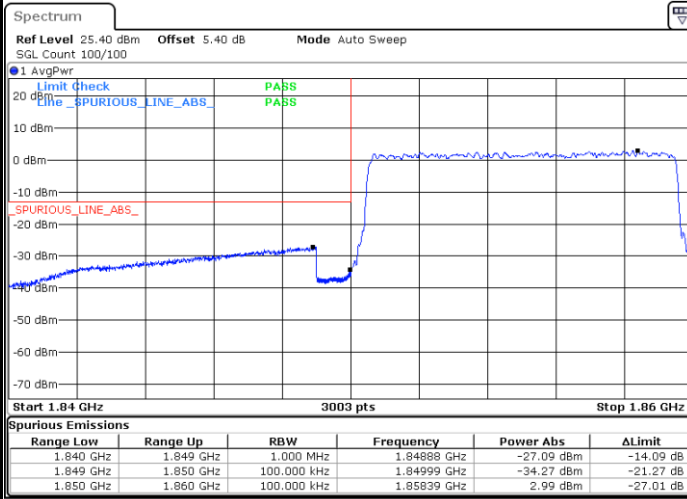
Date: 4.APR.2023 11:38:32

Highest Band Edge / 1 RB



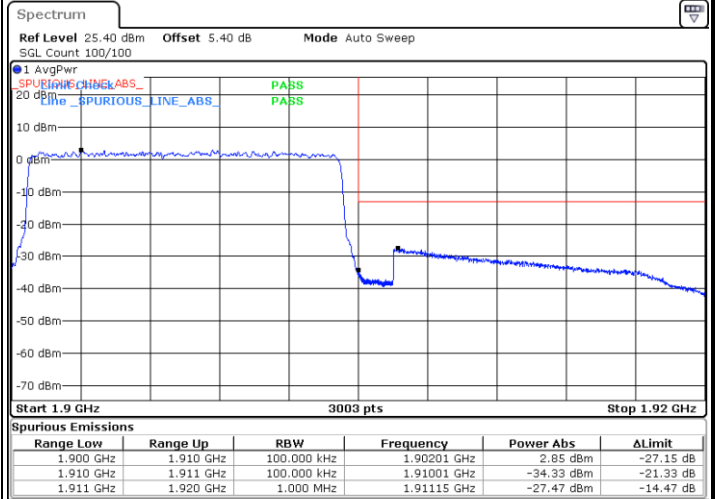
Date: 4.APR.2023 11:47:29

Lowest Band Edge / Full RB



Date: 4.APR.2023 11:35:44

Highest Band Edge / Full RB

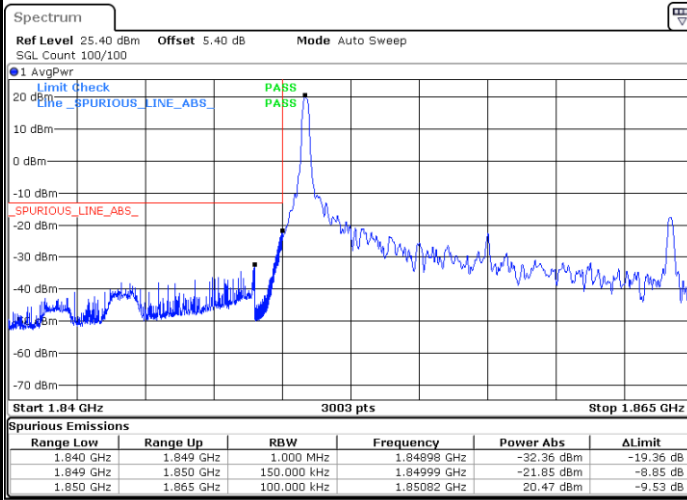


Date: 4.APR.2023 11:49:48



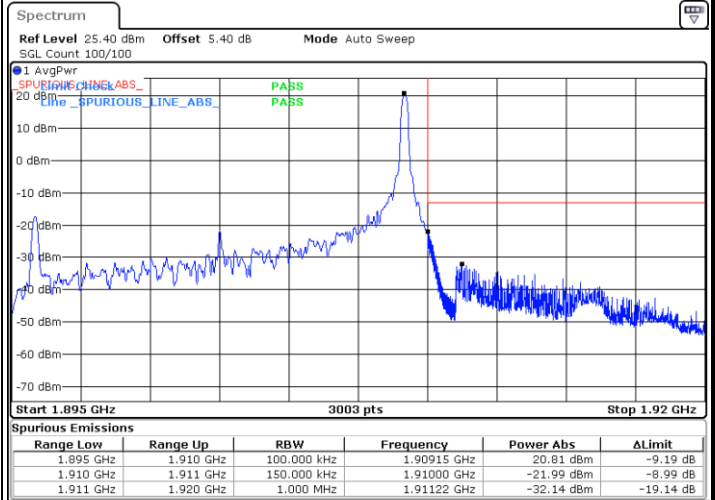
LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1 RB



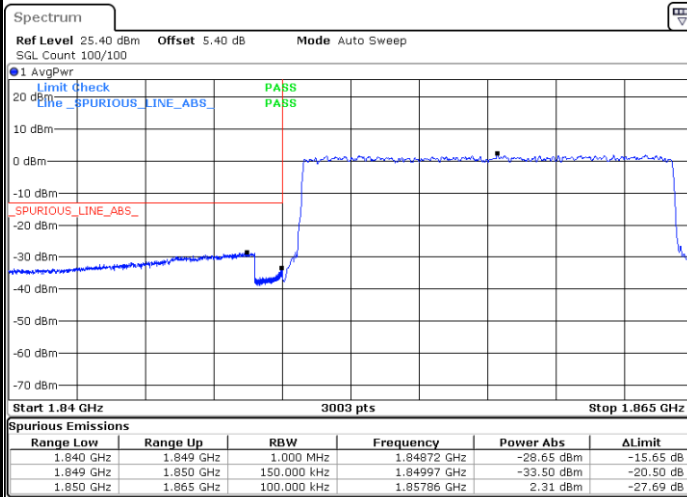
Date: 4.APR.2023 11:55:12

Highest Band Edge / 1 RB



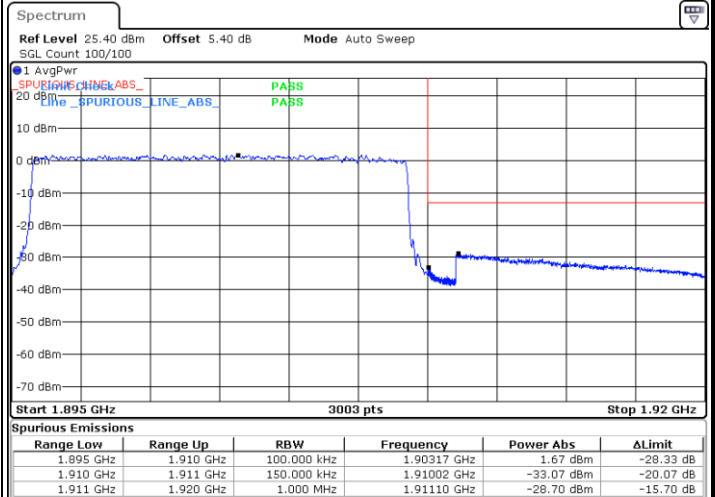
Date: 4.APR.2023 12:02:06

Lowest Band Edge / Full RB



Date: 4.APR.2023 11:51:21

Highest Band Edge / Full RB

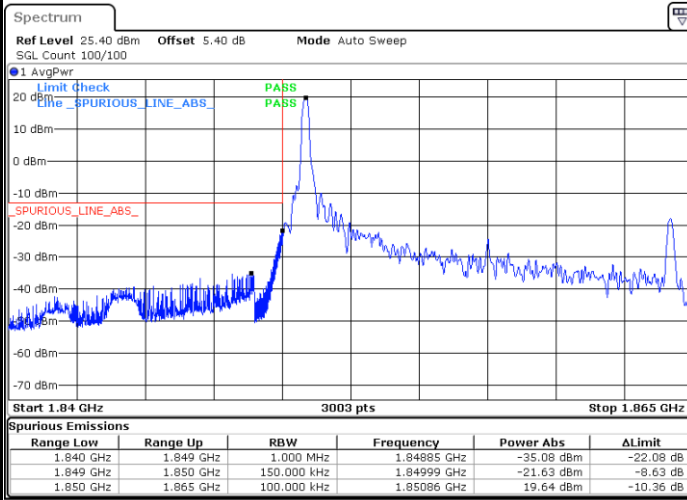


Date: 4.APR.2023 12:05:57



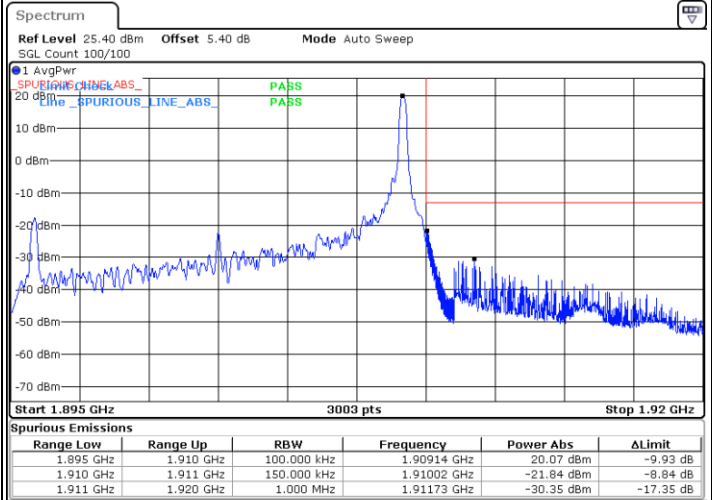
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



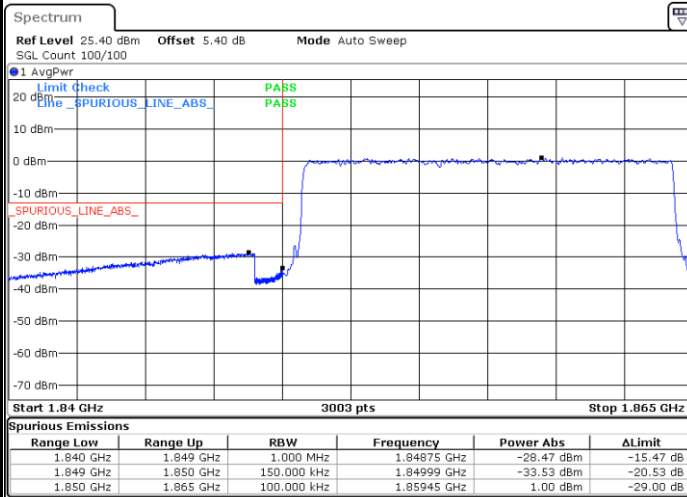
Date: 4.APR.2023 11:54:26

Highest Band Edge / 1 RB



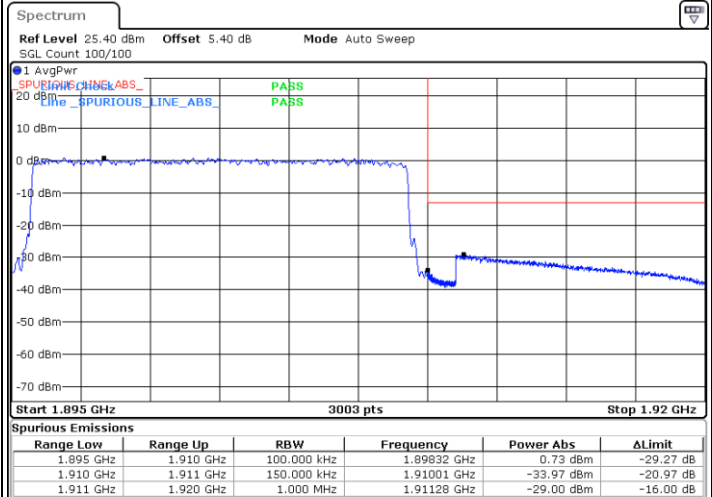
Date: 4.APR.2023 12:02:52

Lowest Band Edge / Full RB



Date: 4.APR.2023 11:52:07

Highest Band Edge / Full RB

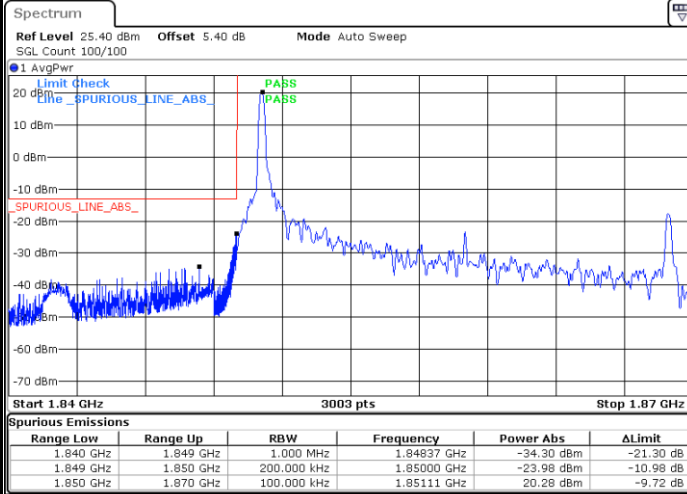


Date: 4.APR.2023 12:05:11



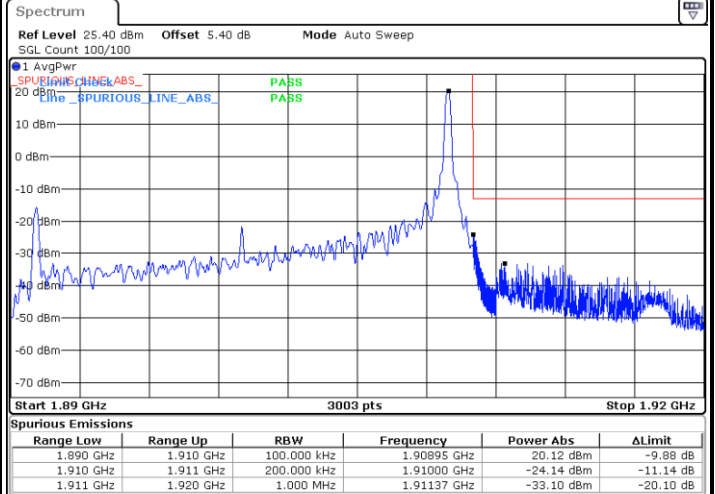
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB



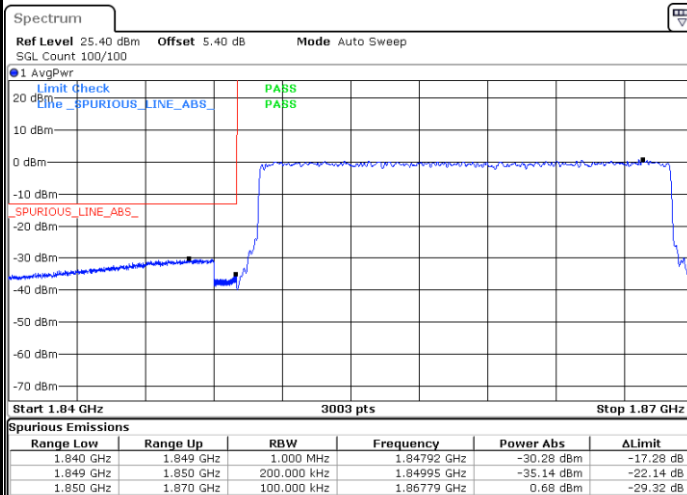
Date: 4.APR.2023 12:10:34

Highest Band Edge / 1 RB



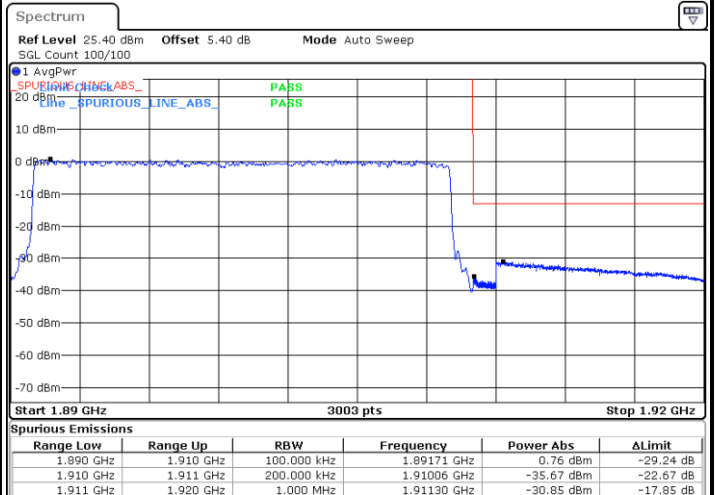
Date: 4.APR.2023 12:17:28

Lowest Band Edge / Full RB



Date: 4.APR.2023 12:06:44

Highest Band Edge / Full RB

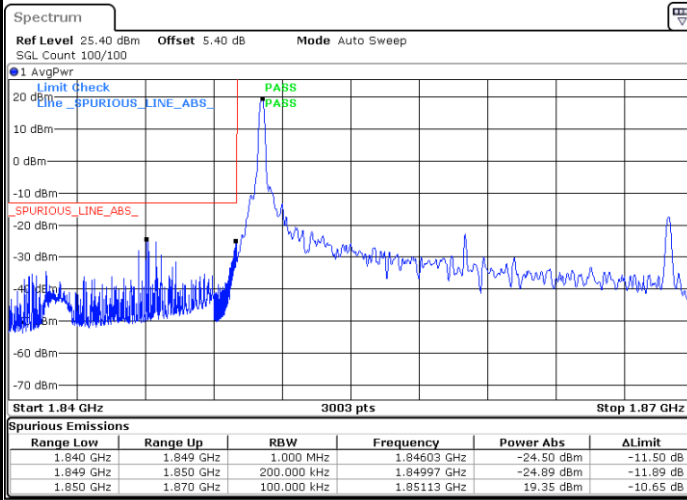


Date: 4.APR.2023 12:21:19



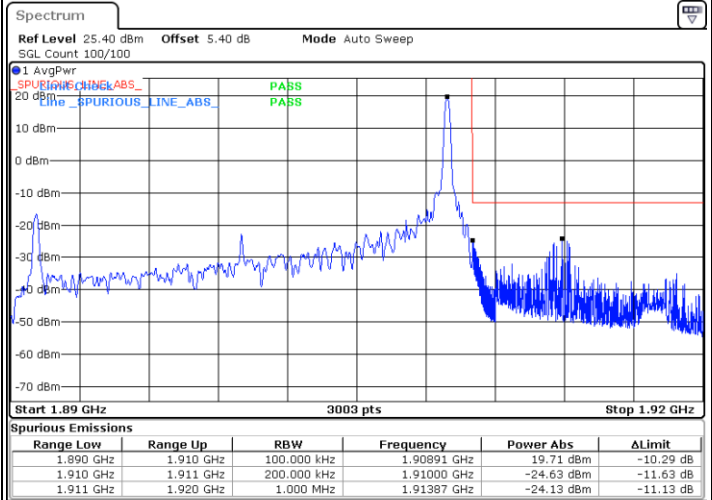
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



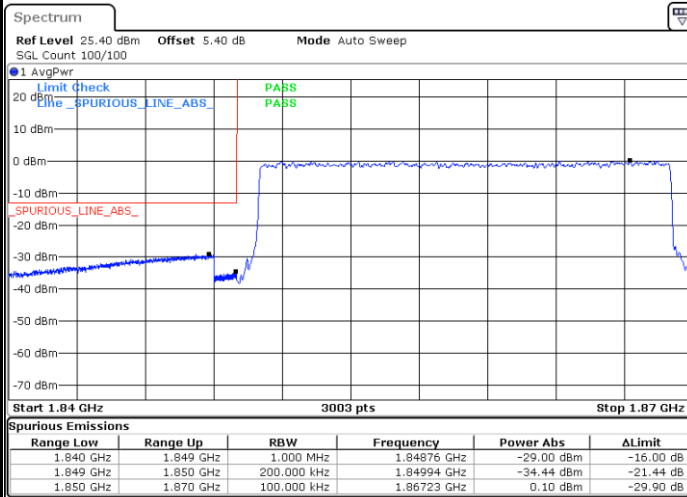
Date: 4.APR.2023 12:09:48

Highest Band Edge / 1 RB



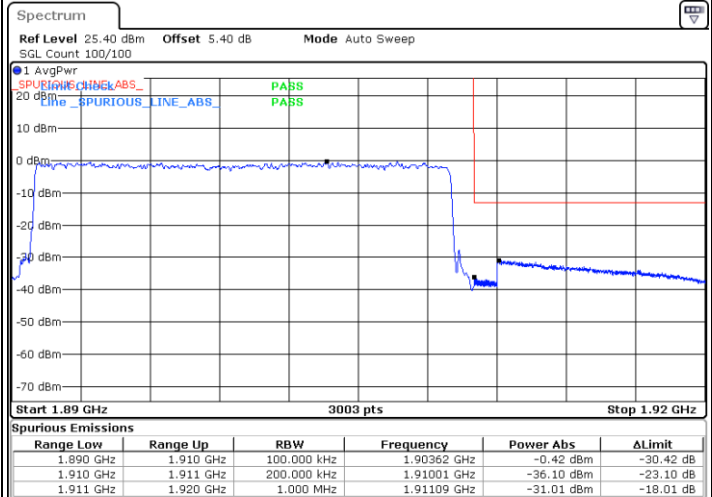
Date: 4.APR.2023 12:18:14

Lowest Band Edge / Full RB



Date: 4.APR.2023 12:07:30

Highest Band Edge / Full RB



Date: 4.APR.2023 12:20:33



Conducted Spurious Emission

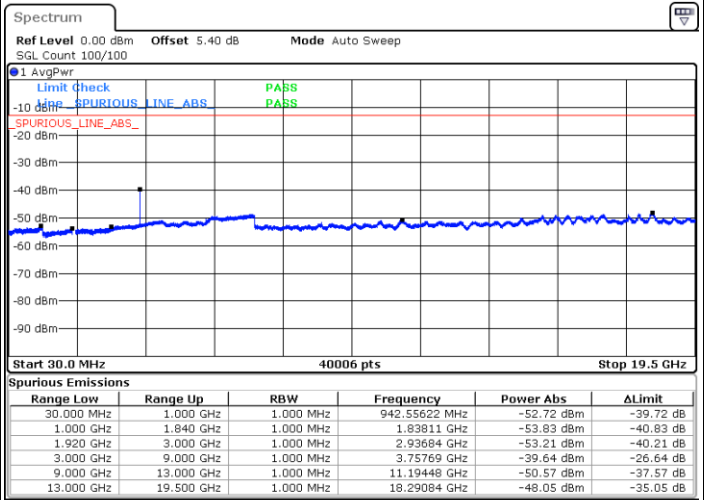
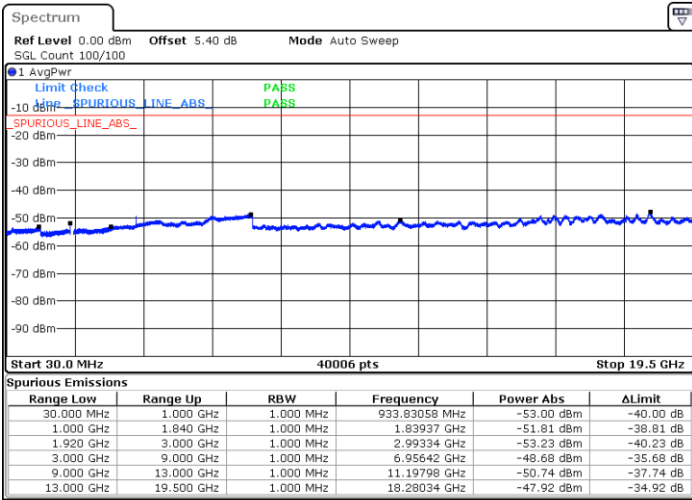




LTE Band 2 / 3MHz

Lowest Channel / QPSK

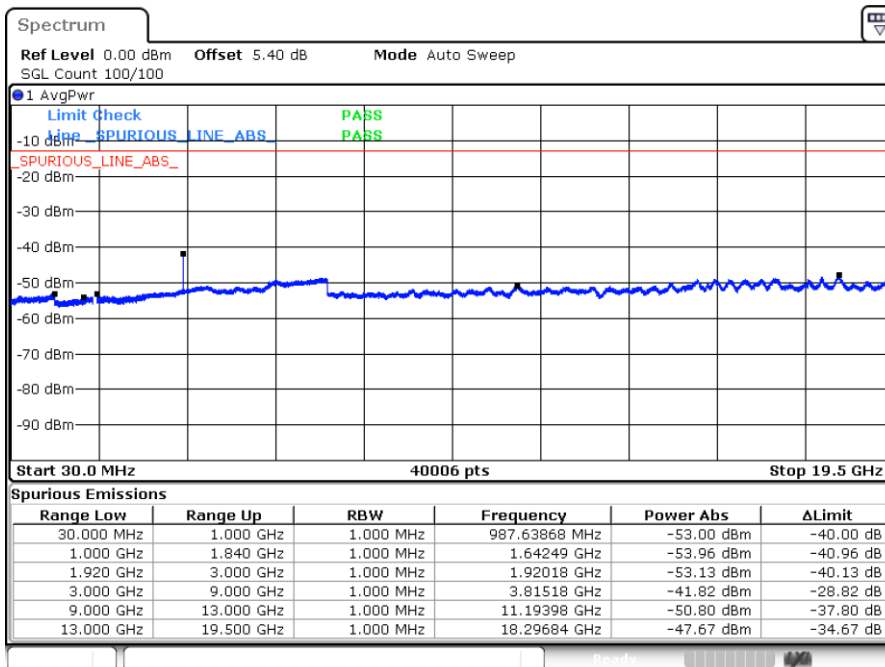
Middle Channel / QPSK



Date: 4.APR.2023 11:00:40

Date: 4.APR.2023 11:02:42

Highest Channel / QPSK



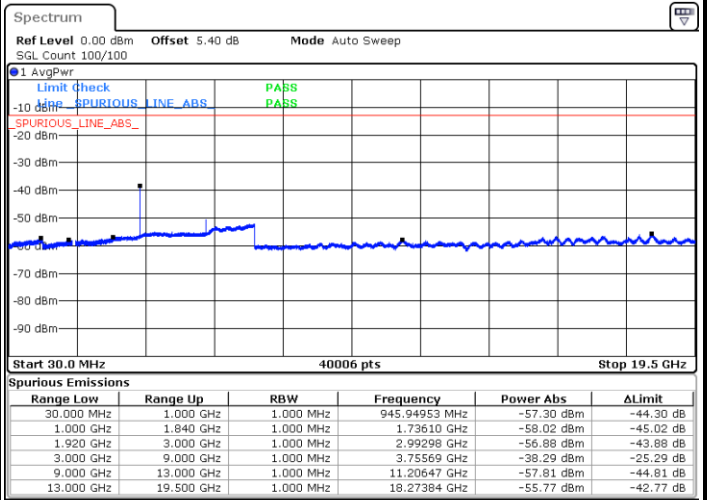
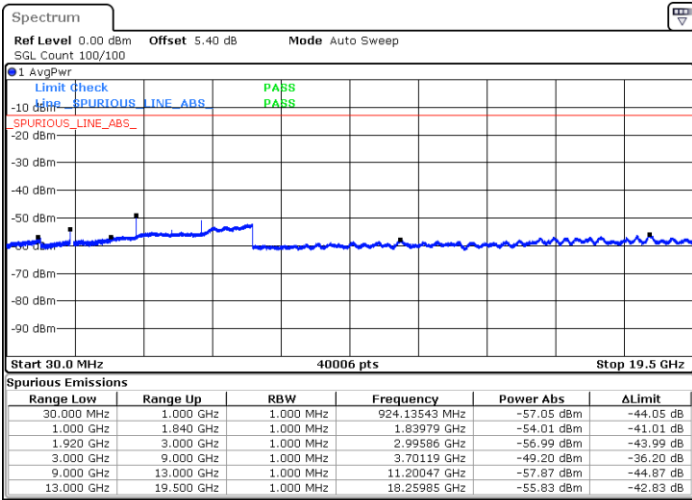
Date: 4.APR.2023 11:04:45



LTE Band 2 / 5MHz

Lowest Channel / QPSK

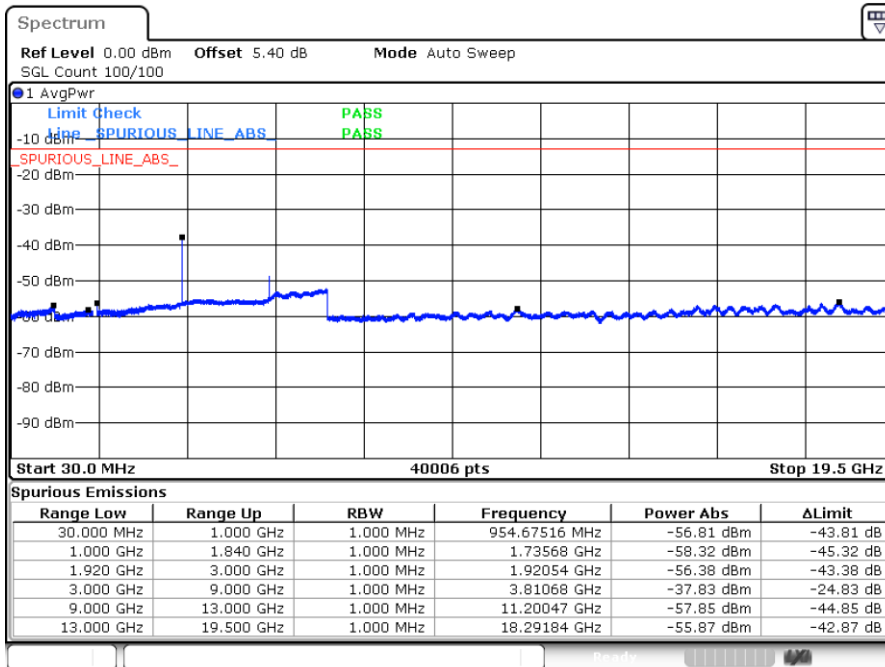
Middle Channel / QPSK



Date: 4.APR.2023 11:24:07

Date: 4.APR.2023 11:26:10

Highest Channel / QPSK



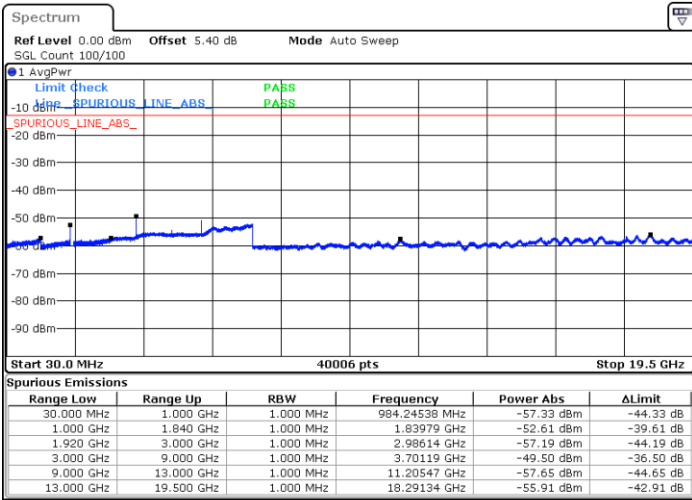
Date: 4.APR.2023 11:28:13



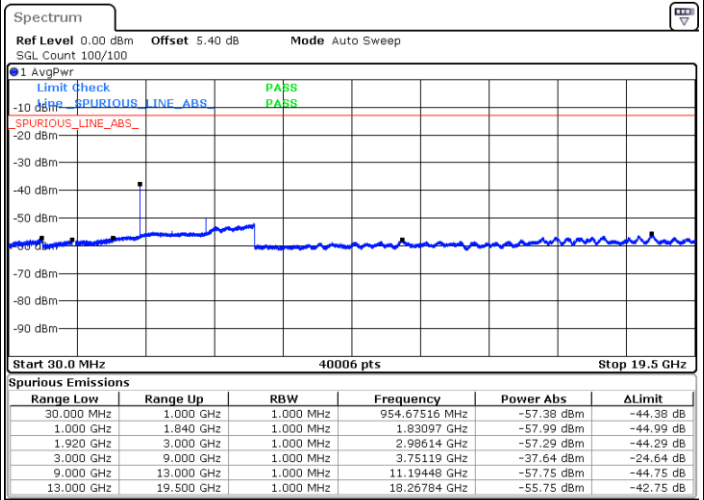
LTE Band 2 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

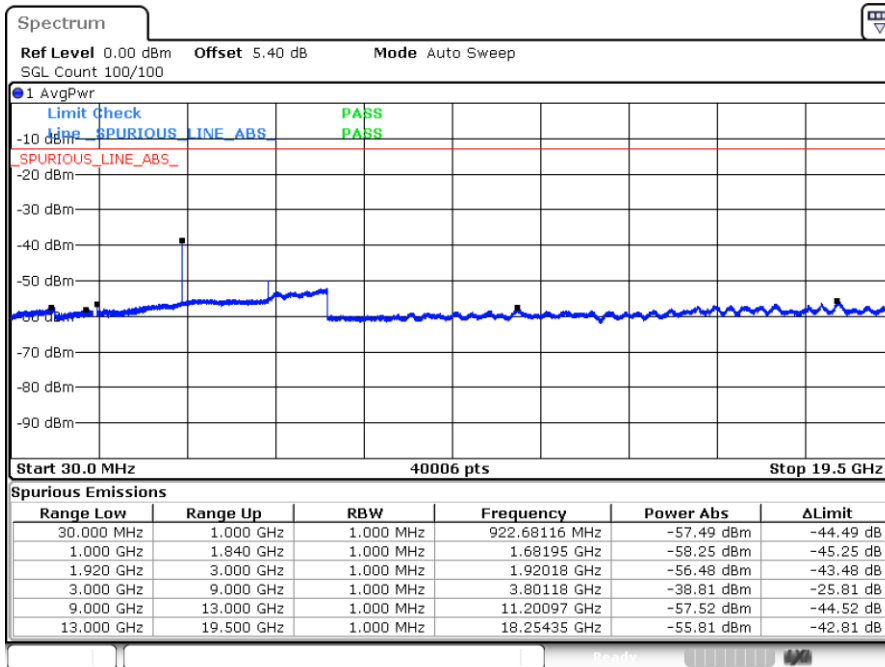


Date: 4.APR.2023 11:41:31



Date: 4.APR.2023 11:43:34

Highest Channel / QPSK



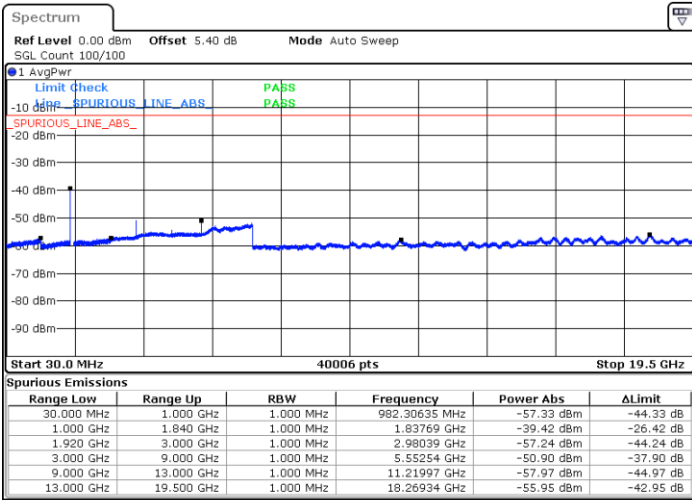
Date: 4.APR.2023 11:45:36



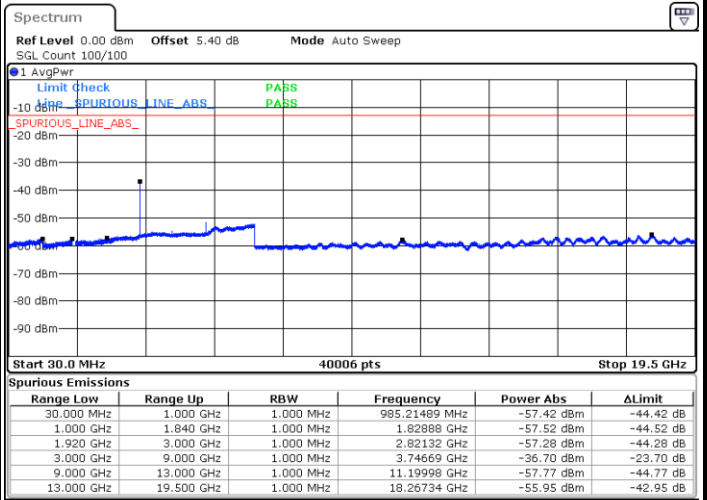
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

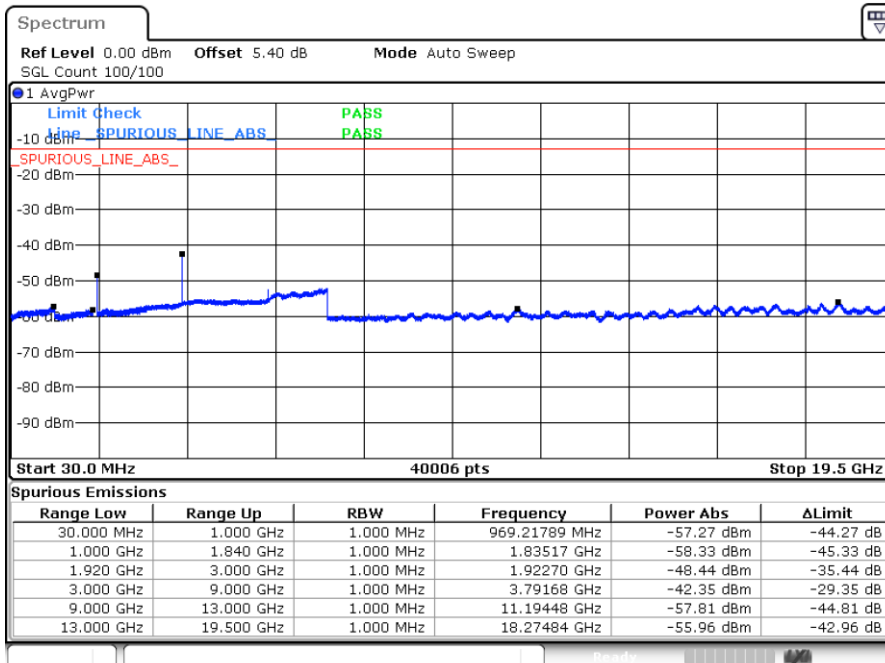


Date: 4.APR.2023 11:57:15



Date: 4.APR.2023 11:59:17

Highest Channel / QPSK



Date: 4.APR.2023 12:01:19