



TEST REPORT

REPORT NUMBER: I23W00004-LTE RF-Rev1

ON

Type of Equipment: tracker
Type of Designation: PT102A
Brand Name: Prime
Manufacturer: Micron Electronics LLC.
FCC ID: ZKQ-PT102A

ACCORDING TO

FCC CFR Part 2, FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS;
GENERAL RULES AND REGULATIONS, e-CFR
PART 24, Personal Communications Services, e-CFR
PART 27, MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES, e-CFR
ANSI C63.26-2015 American National Standard for Compliance Testing of Transmitters
Used in Licensed Radio Services

Chongqing Academy of Information and Communications Technology

Month date, year

Mar, 21, 2023

Signature



Xiang Luoyong

Director

Note:

The test results in this test report relate only to the devices specified in this report.
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Report No.: I23W00004-LTE RF-Rev1

Revision Version

Report Number	Revision	Date	Memo
I23W00004-LTE RF	00	2023-03-15	Initial creation of test report
I23W00004-LTE RF-Rev1	Rev1	2023-03-21	--

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1. Test Laboratory

1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
Designation Number:	CN1239
Address:	Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China
	No.19 East Road, Xiantao Big-data Valley, Yubei District, Chongqing, People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	30-60%

1.3. Project data

Testing Start Date:	2023-02-17
Testing End Date:	2023-03-01

1.4. Signature



2023-03-21

Dong Junxin
(Prepared this test report)

Date



2023-03-21

Li Xu
(Reviewed this test report)

Date



2023-03-21

Xiang Luoyong
Director of the laboratory
(Approved this test report)

Date

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2. Client Information

2.1. Applicant Information

Company Name:	Micron Electronics LLC.
Address /Post:	1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA
City:	Boca Raton
Country:	USA
Telephone:	+1 8885383489
Fax:	--
Email:	pcheng@micron-electronics.com
Contact Person:	Ping Cheng

2.2. Manufacturer Information

Company Name:	Micron Electronics LLC.
Address /Post:	1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA
City:	Boca Raton
Country:	USA
Telephone:	+1 8885383489
Fax:	--
Email:	pcheng@micron-electronics.com
Contact Person:	Ping Cheng

3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description	tracker
Model name	PT102A
Brand name	Prime
LTE Frequency Band	2/4/12
Type of modulation	QPSK/16QAM
Extreme Temperature	0/+60°C
Nominal Voltage	DC 3.8V
Extreme High Voltage	DC 4.2V
Extreme Low Voltage	DC 3.6V
USB port:	DC5V,1A

Note: Photographs of EUT are shown in ANNEX A of this test report.

Note: High and low voltage values in extreme condition test are given by manufacturer.

3.2. Internal Identification of EUT used during the test

EUT ID	SN or IMEI	HW Version	SW Version	Date of receipt
S3	IMEI:861475037109388	PT102_V2	PT102V03.01B07.I01	2023-02-15
S4	IMEI:861475037108778	PT102_V2	PT102V03.01B07.I01	2023-02-15

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Outline of Equipment under Test

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
LTE	B2	1850-1910	1930-1990	16QAM only supports 1.4M, 3M and 5M bandwidth
	B4	1710-1755	2110-2155	16QAM only supports 1.4M, 3M and 5M bandwidth
	B12	699-716	729-746	16QAM only supports 1.4M, 3M and 5M bandwidth

3.4. Internal Identification of AE used during the test

*AE ID: is used to identify the test sample in the lab internally.

dB*: is provided customer.

AE ID	Description	Information
AE1	Adapter	Input: AC 100-240V 0.15A Output: DC 5V 1A
AE2	Charger base	--

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4. Reference Documents

4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC CFR Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS, e-CFR	--
PART 24	Personal Communications Services, e-CFR	--
PART 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES, e-CFR	--
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015

5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	Spectrum analyzer	FSQ 26	201137/026	--	--	R&S	2023-06-29
2	DC Power Supply	3303D	801128	--	--	Topward	2023-06-29
3	Universal Radio Communication Tester	CMW500	152395	--	--	R&S	2023-06-29

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufa cture	Cal.Due Date
1	Universal Radio Communication Tester	CMW500	128181	--	--	R&S	2023-06-29
2	Test Receiver	ESU40	100350	01	4.43 SP3	R&S	2023-06-29
3	Ultra-wideband Log Periodic Antenna	VULB 9163	9163-586	--	--	Schwarzbeck	2024-10-28
4	Double Ridged Guide Antenna	9120D	9120D-1103	--	--	Schwarzbeck	2024-05-05
5	Ultra-wideband Log Periodic Antenna	VULB 9163	00995	--	--	Schwarzbeck	2023-04-03
6	Double Ridged Guide Antenna	9120D	9120D-1083	--	--	Schwarzbeck	2024-12-14
7	Fully-Anechoic Chamber	FAC5	--	--	--	TDK	2024-09-22
8	Generator	SMU 200A	104517	--	--	R&S	2023-06-29
9	Amplifier1	SCU-08F1	8320027	--	--	R&S	2023-06-29
10	Amplifier2	SCU-18F	180093	--	--	R&S	2023-06-29

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5.3. Climate Chamber

No.	Name	Type	SN	Manufacture	Cal.Due Date
1	Climate chamber	SH-241	92010759	ESPEC	2023-06-29

Vibration table

No.	Name	Type	SN	Manufacture	Cal.Due Date
--	--	--	--	--	--

5.4. Test software

No.	Name	version	SN	Manufacture
1	EMC32	V9.26.01	--	R&S
2	T-RFS500	V2.0	--	Manufacturer:Beijing Zhiwang Xince Technology Co., Ltd.

6. Test Results

6.1. Summary of Test Results

A brief summary of the tests carried out is shown as following.

FCC Rules	Name of Test	Result
2.1046,24.232,27.50	Conducted RF Power Output	Pass
2.1046,24.232,27.50	ERP and EIRP	Pass
2.1049	Occupied Bandwidth	*Note 1
2.1051,2.1053, 24.238,27.53	Conducted spurious emissions	Pass
2.1051,2.1053, 24.238,27.53	Radiated Spurious Emission	Pass
2.1051,2.1053, 24.238,27.53	Band Edge	Pass
2.1055,24.235 27.54	Frequency Stability	Pass
24.232, 27.50	Peak to Average Ratio	Pass
Note 1: No applicable performance criteria.		
Note 2: Explanation of worst-case configuration The worst-case scenario for all measurements is based on the conducted output power. Output power was measured on QPSK,16QAM modulations. It was found that QPSK was the worst case. All testing was performed using QPSK modulations to represent the worst case unless otherwise stated. The test results shown in the following sections represent the worst case emission.		
Note 3: The prototype type is Cat1.		

6.2. Conducted RF Power Output

Specifications:	FCC Part 2.1046,24.232,27.50
DUT Serial Number:	IMEI:861475037109388
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 24.232(c): Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to Part 27.50(c)(10): Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

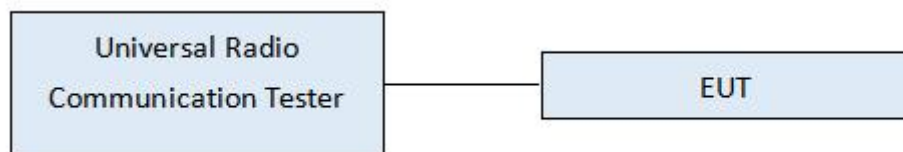
According to Part 27.50(d), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz Band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz Bands are limited to 1 watt EIRP.

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	0.6 dB (k=2)

Test Setup:

During the test, the EUT was controlled via the Wireless Telecommunications Test Set to ensure max power transmission and proper modulation



Test Method:

The EUT is connected to the Universal Radio Communication Tester through the RF cable, and the average power and peak power are obtained through the Universal Radio Communication Tester

Note: --

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6.2.1 Conducted RF Power Output Results

LTE band 2

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	Peak Power (dBm)
1.4MHz	1 RB low	1850.7	QPSK	20.81	24.91
1.4MHz	1 RB mid	1850.7	QPSK	20.98	24.97
1.4MHz	1 RB high	1850.7	QPSK	21.00	25.04
1.4MHz	50%,low	1850.7	QPSK	20.86	23.63
1.4MHz	50% RB mid	1850.7	QPSK	20.71	24.87
1.4MHz	50%,high	1850.7	QPSK	20.80	23.56
1.4MHz	100% RB	1850.7	QPSK	19.78	24.85
1.4MHz	1 RB low	1850.7	16QAM	20.00	24.84
1.4MHz	1 RB mid	1850.7	16QAM	20.24	24.95
1.4MHz	1 RB high	1850.7	16QAM	19.84	24.76
1.4MHz	50%,low	1850.7	16QAM	20.49	23.27
1.4MHz	50% RB mid	1850.7	16QAM	19.75	24.78
1.4MHz	50%,high	1850.7	16QAM	20.63	23.40
1.4MHz	100% RB	1850.7	16QAM	18.76	24.68
1.4MHz	1 RB low	1880	QPSK	20.27	24.44
1.4MHz	1 RB mid	1880	QPSK	20.34	24.33
1.4MHz	1 RB high	1880	QPSK	20.42	24.43
1.4MHz	50%,low	1880	QPSK	20.02	23.01
1.4MHz	50% RB mid	1880	QPSK	20.40	24.53
1.4MHz	50%,high	1880	QPSK	20.17	23.08
1.4MHz	100% RB	1880	QPSK	19.25	24.45
1.4MHz	1 RB low	1880	16QAM	19.55	24.55
1.4MHz	1 RB mid	1880	16QAM	19.77	24.58
1.4MHz	1 RB high	1880	16QAM	19.65	24.54
1.4MHz	50%,low	1880	16QAM	20.33	23.22
1.4MHz	50% RB mid	1880	16QAM	19.35	24.38
1.4MHz	50%,high	1880	16QAM	20.18	23.08
1.4MHz	100% RB	1880	16QAM	18.13	24.02
1.4MHz	1 RB low	1909.3	QPSK	20.68	24.31
1.4MHz	1 RB mid	1909.3	QPSK	20.66	24.09
1.4MHz	1 RB high	1909.3	QPSK	20.62	23.95
1.4MHz	50%,low	1909.3	QPSK	20.66	23.31
1.4MHz	50% RB mid	1909.3	QPSK	20.58	24.16
1.4MHz	50%,high	1909.3	QPSK	20.68	23.32

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1.4MHz	100% RB	1909.3	QPSK	19.58	24.27
1.4MHz	1 RB low	1909.3	16QAM	19.77	24.27
1.4MHz	1 RB mid	1909.3	16QAM	19.67	23.94
1.4MHz	1 RB high	1909.3	16QAM	19.46	23.81
1.4MHz	50%,low	1909.3	16QAM	20.60	23.23
1.4MHz	50% RB mid	1909.3	16QAM	19.53	24.10
1.4MHz	50%,high	1909.3	16QAM	20.64	23.27
1.4MHz	100% RB	1909.3	16QAM	18.53	24.29
3MHz	1 RB low	1851.5	QPSK	20.48	24.60
3MHz	1 RB mid	1851.5	QPSK	20.36	24.40
3MHz	1 RB high	1851.5	QPSK	20.35	24.48
3MHz	50%,low	1851.5	QPSK	20.50	23.29
3MHz	50% RB mid	1851.5	QPSK	19.47	23.99
3MHz	50%,high	1851.5	QPSK	20.52	23.29
3MHz	100% RB	1851.5	QPSK	19.31	24.59
3MHz	1 RB low	1851.5	16QAM	19.22	24.14
3MHz	1 RB mid	1851.5	16QAM	19.23	24.05
3MHz	1 RB high	1851.5	16QAM	19.05	24.00
3MHz	50%,low	1851.5	16QAM	20.16	22.96
3MHz	50% RB mid	1851.5	16QAM	18.42	23.77
3MHz	50%,high	1851.5	16QAM	20.08	22.89
3MHz	100% RB	1851.5	16QAM	18.32	24.19
3MHz	1 RB low	1880	QPSK	20.25	24.29
3MHz	1 RB mid	1880	QPSK	19.95	23.96
3MHz	1 RB high	1880	QPSK	19.96	24.02
3MHz	50%,low	1880	QPSK	19.79	22.70
3MHz	50% RB mid	1880	QPSK	18.99	23.53
3MHz	50%,high	1880	QPSK	19.91	22.82
3MHz	100% RB	1880	QPSK	19.05	24.02
3MHz	1 RB low	1880	16QAM	19.35	24.32
3MHz	1 RB mid	1880	16QAM	19.35	24.21
3MHz	1 RB high	1880	16QAM	19.45	24.29
3MHz	50%,low	1880	16QAM	19.77	22.69
3MHz	50% RB mid	1880	16QAM	18.06	23.56
3MHz	50%,high	1880	16QAM	19.88	22.79
3MHz	100% RB	1880	16QAM	18.01	24.41
3MHz	1 RB low	1908.5	QPSK	20.44	24.33
3MHz	1 RB mid	1908.5	QPSK	20.34	23.90

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3MHz	1 RB high	1908.5	QPSK	20.46	23.68
3MHz	50%,low	1908.5	QPSK	20.55	23.20
3MHz	50% RB mid	1908.5	QPSK	19.45	23.73
3MHz	50%,high	1908.5	QPSK	20.54	23.20
3MHz	100% RB	1908.5	QPSK	19.49	24.32
3MHz	1 RB low	1908.5	16QAM	19.31	24.14
3MHz	1 RB mid	1908.5	16QAM	19.48	23.86
3MHz	1 RB high	1908.5	16QAM	19.51	23.66
3MHz	50%,low	1908.5	16QAM	20.57	23.21
3MHz	50% RB mid	1908.5	16QAM	18.49	23.75
3MHz	50%,high	1908.5	16QAM	20.56	23.19
3MHz	100% RB	1908.5	16QAM	18.66	24.28
5MHz	1 RB low	1852.5	QPSK	20.32	24.36
5MHz	1 RB mid	1852.5	QPSK	20.44	24.39
5MHz	1 RB high	1852.5	QPSK	20.21	24.33
5MHz	50%,low	1852.5	QPSK	19.27	23.93
5MHz	50% RB mid	1852.5	QPSK	19.27	23.74
5MHz	50%,high	1852.5	QPSK	19.44	24.06
5MHz	100% RB	1852.5	QPSK	19.32	24.52
5MHz	1 RB low	1852.5	16QAM	19.33	24.10
5MHz	1 RB mid	1852.5	16QAM	19.57	24.23
5MHz	1 RB high	1852.5	16QAM	19.03	23.86
5MHz	50%,low	1852.5	16QAM	18.35	23.72
5MHz	50% RB mid	1852.5	16QAM	18.28	23.58
5MHz	50%,high	1852.5	16QAM	18.44	23.77
5MHz	100% RB	1852.5	16QAM	18.48	24.44
5MHz	1 RB low	1880	QPSK	20.06	24.13
5MHz	1 RB mid	1880	QPSK	20.08	24.02
5MHz	1 RB high	1880	QPSK	19.97	23.96
5MHz	50%,low	1880	QPSK	19.02	23.61
5MHz	50% RB mid	1880	QPSK	19.09	23.58
5MHz	50%,high	1880	QPSK	19.02	23.56
5MHz	100% RB	1880	QPSK	19.04	24.19
5MHz	1 RB low	1880	16QAM	18.64	23.78
5MHz	1 RB mid	1880	16QAM	18.71	23.72
5MHz	1 RB high	1880	16QAM	18.37	23.49
5MHz	50%,low	1880	16QAM	18.15	23.69
5MHz	50% RB mid	1880	16QAM	18.08	23.44

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5MHz	50%,high	1880	16QAM	18.16	23.64
5MHz	100% RB	1880	16QAM	18.06	24.03
5MHz	1 RB low	1907.5	QPSK	20.48	24.51
5MHz	1 RB mid	1907.5	QPSK	20.62	24.20
5MHz	1 RB high	1907.5	QPSK	20.24	23.62
5MHz	50%,low	1907.5	QPSK	19.55	24.09
5MHz	50% RB mid	1907.5	QPSK	19.49	23.78
5MHz	50%,high	1907.5	QPSK	19.51	23.78
5MHz	100% RB	1907.5	QPSK	19.45	24.47
5MHz	1 RB low	1907.5	16QAM	19.38	24.37
5MHz	1 RB mid	1907.5	16QAM	19.61	24.17
5MHz	1 RB high	1907.5	16QAM	19.37	23.63
5MHz	50%,low	1907.5	16QAM	18.30	23.72
5MHz	50% RB mid	1907.5	16QAM	18.31	23.59
5MHz	50%,high	1907.5	16QAM	18.27	23.52
5MHz	100% RB	1907.5	16QAM	18.49	24.15
10MHz	1 RB low	1855	QPSK	20.45	24.64
10MHz	1 RB mid	1855	QPSK	20.61	24.75
10MHz	1 RB high	1855	QPSK	20.39	24.64
10MHz	50%,low	1855	QPSK	19.47	24.05
10MHz	50% RB mid	1855	QPSK	19.51	23.98
10MHz	50%,high	1855	QPSK	19.44	24.06
10MHz	100% RB	1855	QPSK	19.42	25.09
10MHz	1 RB low	1880	QPSK	20.04	24.30
10MHz	1 RB mid	1880	QPSK	20.37	24.33
10MHz	1 RB high	1880	QPSK	20.00	24.05
10MHz	50%,low	1880	QPSK	19.05	23.68
10MHz	50% RB mid	1880	QPSK	19.06	23.62
10MHz	50%,high	1880	QPSK	19.10	23.65
10MHz	100% RB	1880	QPSK	19.05	24.09
10MHz	1 RB low	1905	QPSK	20.62	24.77
10MHz	1 RB mid	1905	QPSK	20.64	24.62
10MHz	1 RB high	1905	QPSK	20.47	23.89
10MHz	50%,low	1905	QPSK	19.56	24.11
10MHz	50% RB mid	1905	QPSK	19.56	24.00
10MHz	50%,high	1905	QPSK	19.47	23.87
10MHz	100% RB	1905	QPSK	19.62	24.45
15MHz	1 RB low	1857.5	QPSK	20.30	24.51

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15MHz	1 RB mid	1857.5	QPSK	20.41	24.58
15MHz	1 RB high	1857.5	QPSK	20.37	24.60
15MHz	50%,low	1857.5	QPSK	19.35	24.05
15MHz	50% RB mid	1857.5	QPSK	19.32	23.90
15MHz	50%,high	1857.5	QPSK	19.32	24.06
15MHz	100% RB	1857.5	QPSK	19.18	24.44
15MHz	1 RB low	1880	QPSK	20.30	24.58
15MHz	1 RB mid	1880	QPSK	20.17	24.32
15MHz	1 RB high	1880	QPSK	20.27	24.26
15MHz	50%,low	1880	QPSK	19.27	24.11
15MHz	50% RB mid	1880	QPSK	19.24	23.87
15MHz	50%,high	1880	QPSK	19.21	23.94
15MHz	100% RB	1880	QPSK	19.19	24.47
15MHz	1 RB low	1902.5	QPSK	20.70	24.67
15MHz	1 RB mid	1902.5	QPSK	20.60	24.80
15MHz	1 RB high	1902.5	QPSK	20.59	24.24
15MHz	50%,low	1902.5	QPSK	19.78	24.51
15MHz	50% RB mid	1902.5	QPSK	19.66	24.27
15MHz	50%,high	1902.5	QPSK	19.61	24.30
15MHz	100% RB	1902.5	QPSK	19.48	24.76
20MHz	1 RB low	1860	QPSK	20.48	24.78
20MHz	1 RB mid	1860	QPSK	20.73	25.02
20MHz	1 RB high	1860	QPSK	20.28	24.67
20MHz	50%,low	1860	QPSK	19.53	24.21
20MHz	50% RB mid	1860	QPSK	19.59	24.20
20MHz	50%,high	1860	QPSK	19.46	24.25
20MHz	100% RB	1860	QPSK	19.42	24.44
20MHz	1 RB low	1880	QPSK	20.21	24.65
20MHz	1 RB mid	1880	QPSK	20.26	24.49
20MHz	1 RB high	1880	QPSK	20.28	24.30
20MHz	50%,low	1880	QPSK	19.30	24.09
20MHz	50% RB mid	1880	QPSK	19.25	23.91
20MHz	50%,high	1880	QPSK	19.28	23.98
20MHz	100% RB	1880	QPSK	19.29	24.31
20MHz	1 RB low	1900	QPSK	20.21	24.16
20MHz	1 RB mid	1900	QPSK	21.14	25.09
20MHz	1 RB high	1900	QPSK	20.43	24.27
20MHz	50%,low	1900	QPSK	19.77	24.40

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20MHz	50% RB mid	1900	QPSK	19.83	24.38
20MHz	50%,high	1900	QPSK	19.66	24.35
20MHz	100% RB	1900	QPSK	19.67	24.79

LTE band 4

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	Peak Power (dBm)
1.4MHz	1 RB low	1710.7	QPSK	21.10	25.20
1.4MHz	1 RB mid	1710.7	QPSK	21.22	25.18
1.4MHz	1 RB high	1710.7	QPSK	21.09	25.14
1.4MHz	50%,low	1710.7	QPSK	21.00	23.84
1.4MHz	50% RB mid	1710.7	QPSK	20.94	25.10
1.4MHz	50%,high	1710.7	QPSK	20.91	23.75
1.4MHz	100% RB	1710.7	QPSK	19.89	25.17
1.4MHz	1 RB low	1710.7	16QAM	20.42	25.44
1.4MHz	1 RB mid	1710.7	16QAM	20.19	25.17
1.4MHz	1 RB high	1710.7	16QAM	19.72	24.86
1.4MHz	50%,low	1710.7	16QAM	20.77	23.62
1.4MHz	50% RB mid	1710.7	16QAM	19.52	24.64
1.4MHz	50%,high	1710.7	16QAM	20.82	23.66
1.4MHz	100% RB	1710.7	16QAM	18.70	24.52
1.4MHz	1 RB low	1732.5	QPSK	20.68	24.80
1.4MHz	1 RB mid	1732.5	QPSK	20.96	24.97
1.4MHz	1 RB high	1732.5	QPSK	20.67	24.75
1.4MHz	50%,low	1732.5	QPSK	20.89	23.65
1.4MHz	50% RB mid	1732.5	QPSK	20.73	24.87
1.4MHz	50%,high	1732.5	QPSK	20.87	23.63
1.4MHz	100% RB	1732.5	QPSK	19.78	24.90
1.4MHz	1 RB low	1732.5	16QAM	19.77	24.75
1.4MHz	1 RB mid	1732.5	16QAM	19.52	24.44
1.4MHz	1 RB high	1732.5	16QAM	19.61	24.58
1.4MHz	50%,low	1732.5	16QAM	20.85	23.62
1.4MHz	50% RB mid	1732.5	16QAM	19.94	24.95
1.4MHz	50%,high	1732.5	16QAM	20.82	23.59
1.4MHz	100% RB	1732.5	16QAM	18.79	24.86
1.4MHz	1 RB low	1754.3	QPSK	20.89	24.72
1.4MHz	1 RB mid	1754.3	QPSK	20.88	24.67
1.4MHz	1 RB high	1754.3	QPSK	20.85	24.71
1.4MHz	50%,low	1754.3	QPSK	20.40	23.16
1.4MHz	50% RB mid	1754.3	QPSK	20.61	24.58

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1.4MHz	50%,high	1754.3	QPSK	20.36	23.13
1.4MHz	100% RB	1754.3	QPSK	19.68	24.52
1.4MHz	1 RB low	1754.3	16QAM	20.01	24.67
1.4MHz	1 RB mid	1754.3	16QAM	20.01	24.58
1.4MHz	1 RB high	1754.3	16QAM	19.87	24.62
1.4MHz	50%,low	1754.3	16QAM	20.82	23.55
1.4MHz	50% RB mid	1754.3	16QAM	19.96	24.69
1.4MHz	50%,high	1754.3	16QAM	20.79	23.52
1.4MHz	100% RB	1754.3	16QAM	18.86	24.63
3MHz	1 RB low	1711.5	QPSK	20.82	25.02
3MHz	1 RB mid	1711.5	QPSK	20.90	24.94
3MHz	1 RB high	1711.5	QPSK	20.95	25.12
3MHz	50%,low	1711.5	QPSK	20.90	23.68
3MHz	50% RB mid	1711.5	QPSK	19.90	24.45
3MHz	50%,high	1711.5	QPSK	20.77	23.56
3MHz	100% RB	1711.5	QPSK	19.80	25.17
3MHz	1 RB low	1711.5	16QAM	19.66	24.60
3MHz	1 RB mid	1711.5	16QAM	19.68	24.51
3MHz	1 RB high	1711.5	16QAM	19.80	24.75
3MHz	50%,low	1711.5	16QAM	20.79	23.57
3MHz	50% RB mid	1711.5	16QAM	18.99	24.29
3MHz	50%,high	1711.5	16QAM	20.75	23.53
3MHz	100% RB	1711.5	16QAM	18.85	24.76
3MHz	1 RB low	1732.5	QPSK	20.81	24.90
3MHz	1 RB mid	1732.5	QPSK	20.92	24.86
3MHz	1 RB high	1732.5	QPSK	20.79	24.87
3MHz	50%,low	1732.5	QPSK	20.68	23.57
3MHz	50% RB mid	1732.5	QPSK	19.66	24.18
3MHz	50%,high	1732.5	QPSK	20.66	23.55
3MHz	100% RB	1732.5	QPSK	19.70	24.73
3MHz	1 RB low	1732.5	16QAM	19.92	24.98
3MHz	1 RB mid	1732.5	16QAM	20.04	24.93
3MHz	1 RB high	1732.5	16QAM	19.91	24.97
3MHz	50%,low	1732.5	16QAM	20.70	23.59
3MHz	50% RB mid	1732.5	16QAM	18.69	24.31
3MHz	50%,high	1732.5	16QAM	20.51	23.41
3MHz	100% RB	1732.5	16QAM	18.74	24.81
3MHz	1 RB low	1753.5	QPSK	20.41	24.39

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3MHz	1 RB mid	1753.5	QPSK	20.76	24.54
3MHz	1 RB high	1753.5	QPSK	20.58	24.54
3MHz	50%,low	1753.5	QPSK	20.90	23.63
3MHz	50% RB mid	1753.5	QPSK	19.73	24.13
3MHz	50%,high	1753.5	QPSK	20.88	23.62
3MHz	100% RB	1753.5	QPSK	19.69	24.50
3MHz	1 RB low	1753.5	16QAM	19.51	24.30
3MHz	1 RB mid	1753.5	16QAM	19.46	24.17
3MHz	1 RB high	1753.5	16QAM	19.74	24.53
3MHz	50%,low	1753.5	16QAM	20.84	23.58
3MHz	50% RB mid	1753.5	16QAM	18.81	24.19
3MHz	50%,high	1753.5	16QAM	20.83	23.57
3MHz	100% RB	1753.5	16QAM	18.67	24.88
5MHz	1 RB low	1712.5	QPSK	20.84	24.93
5MHz	1 RB mid	1712.5	QPSK	21.04	24.98
5MHz	1 RB high	1712.5	QPSK	21.03	25.10
5MHz	50%,low	1712.5	QPSK	19.86	24.52
5MHz	50% RB mid	1712.5	QPSK	19.85	24.34
5MHz	50%,high	1712.5	QPSK	19.98	24.58
5MHz	100% RB	1712.5	QPSK	19.91	25.11
5MHz	1 RB low	1712.5	16QAM	19.67	24.48
5MHz	1 RB mid	1712.5	16QAM	20.09	24.74
5MHz	1 RB high	1712.5	16QAM	19.91	24.71
5MHz	50%,low	1712.5	16QAM	18.90	24.26
5MHz	50% RB mid	1712.5	16QAM	18.82	24.13
5MHz	50%,high	1712.5	16QAM	18.90	24.25
5MHz	100% RB	1712.5	16QAM	18.94	24.87
5MHz	1 RB low	1732.5	QPSK	20.59	24.67
5MHz	1 RB mid	1732.5	QPSK	20.63	24.61
5MHz	1 RB high	1732.5	QPSK	20.70	24.78
5MHz	50%,low	1732.5	QPSK	19.63	24.25
5MHz	50% RB mid	1732.5	QPSK	19.75	24.20
5MHz	50%,high	1732.5	QPSK	19.69	24.31
5MHz	100% RB	1732.5	QPSK	19.73	24.93
5MHz	1 RB low	1732.5	16QAM	19.26	24.40
5MHz	1 RB mid	1732.5	16QAM	19.27	24.30
5MHz	1 RB high	1732.5	16QAM	19.11	24.28
5MHz	50%,low	1732.5	16QAM	18.78	24.30

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5MHz	50% RB mid	1732.5	16QAM	18.86	24.21
5MHz	50%,high	1732.5	16QAM	18.68	24.16
5MHz	100% RB	1732.5	16QAM	18.79	24.95
5MHz	1 RB low	1752.5	QPSK	20.55	24.47
5MHz	1 RB mid	1752.5	QPSK	20.87	24.56
5MHz	1 RB high	1752.5	QPSK	20.82	24.67
5MHz	50%,low	1752.5	QPSK	19.76	24.26
5MHz	50% RB mid	1752.5	QPSK	19.81	24.08
5MHz	50%,high	1752.5	QPSK	19.76	24.22
5MHz	100% RB	1752.5	QPSK	19.82	24.96
5MHz	1 RB low	1752.5	16QAM	19.79	24.56
5MHz	1 RB mid	1752.5	16QAM	19.99	24.56
5MHz	1 RB high	1752.5	16QAM	20.07	24.76
5MHz	50%,low	1752.5	16QAM	18.48	23.90
5MHz	50% RB mid	1752.5	16QAM	18.74	23.98
5MHz	50%,high	1752.5	16QAM	18.75	24.09
5MHz	100% RB	1752.5	16QAM	18.88	24.61
10MHz	1 RB low	1715	QPSK	20.72	24.90
10MHz	1 RB mid	1715	QPSK	21.29	25.30
10MHz	1 RB high	1715	QPSK	20.80	24.99
10MHz	50%,low	1715	QPSK	19.76	24.37
10MHz	50% RB mid	1715	QPSK	19.92	24.37
10MHz	50%,high	1715	QPSK	19.83	24.49
10MHz	100% RB	1715	QPSK	19.83	24.97
10MHz	1 RB low	1732.5	QPSK	20.49	24.72
10MHz	1 RB mid	1732.5	QPSK	20.78	24.84
10MHz	1 RB high	1732.5	QPSK	20.84	25.00
10MHz	50%,low	1732.5	QPSK	19.71	24.30
10MHz	50% RB mid	1732.5	QPSK	19.67	24.20
10MHz	50%,high	1732.5	QPSK	19.73	24.37
10MHz	100% RB	1732.5	QPSK	19.78	25.35
10MHz	1 RB low	1750	QPSK	20.47	24.57
10MHz	1 RB mid	1750	QPSK	20.56	24.45
10MHz	1 RB high	1750	QPSK	20.73	24.69
10MHz	50%,low	1750	QPSK	19.49	24.06
10MHz	50% RB mid	1750	QPSK	19.63	24.04
10MHz	50%,high	1750	QPSK	19.70	24.12
10MHz	100% RB	1750	QPSK	19.70	25.03

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15MHz	1 RB low	1717.5	QPSK	20.88	25.06
15MHz	1 RB mid	1717.5	QPSK	20.77	24.91
15MHz	1 RB high	1717.5	QPSK	20.69	24.92
15MHz	50%,low	1717.5	QPSK	19.74	24.41
15MHz	50% RB mid	1717.5	QPSK	19.91	24.45
15MHz	50%,high	1717.5	QPSK	19.81	24.51
15MHz	100% RB	1717.5	QPSK	19.86	25.28
15MHz	1 RB low	1732.5	QPSK	20.96	25.05
15MHz	1 RB mid	1732.5	QPSK	20.63	24.78
15MHz	1 RB high	1732.5	QPSK	20.55	24.80
15MHz	50%,low	1732.5	QPSK	19.77	24.46
15MHz	50% RB mid	1732.5	QPSK	19.75	24.30
15MHz	50%,high	1732.5	QPSK	19.68	24.37
15MHz	100% RB	1732.5	QPSK	19.72	25.05
15MHz	1 RB low	1747.5	QPSK	20.67	24.74
15MHz	1 RB mid	1747.5	QPSK	20.42	24.43
15MHz	1 RB high	1747.5	QPSK	20.91	24.77
15MHz	50%,low	1747.5	QPSK	19.62	24.28
15MHz	50% RB mid	1747.5	QPSK	19.50	23.99
15MHz	50%,high	1747.5	QPSK	19.52	24.11
15MHz	100% RB	1747.5	QPSK	19.57	24.79
20MHz	1 RB low	1720	QPSK	20.75	24.89
20MHz	1 RB mid	1720	QPSK	21.22	25.15
20MHz	1 RB high	1720	QPSK	21.09	25.16
20MHz	50%,low	1720	QPSK	19.89	24.58
20MHz	50% RB mid	1720	QPSK	19.90	24.45
20MHz	50%,high	1720	QPSK	19.83	24.56
20MHz	100% RB	1720	QPSK	19.90	25.36
20MHz	1 RB low	1732.5	QPSK	20.85	24.92
20MHz	1 RB mid	1732.5	QPSK	20.81	24.83
20MHz	1 RB high	1732.5	QPSK	20.57	24.73
20MHz	50%,low	1732.5	QPSK	19.71	24.36
20MHz	50% RB mid	1732.5	QPSK	19.78	24.29
20MHz	50%,high	1732.5	QPSK	19.87	24.50
20MHz	100% RB	1732.5	QPSK	19.83	25.31
20MHz	1 RB low	1745	QPSK	20.60	24.80
20MHz	1 RB mid	1745	QPSK	20.63	24.70
20MHz	1 RB high	1745	QPSK	20.91	24.82

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20MHz	50%,low	1745	QPSK	19.67	24.36
20MHz	50% RB mid	1745	QPSK	19.71	24.14
20MHz	50%,high	1745	QPSK	19.65	24.22
20MHz	100% RB	1745	QPSK	19.62	24.57

LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	Peak Power (dBm)
1.4MHz	1 RB low	699.7	QPSK	21.06	25.07
1.4MHz	1 RB mid	699.7	QPSK	21.27	25.21
1.4MHz	1 RB high	699.7	QPSK	21.46	25.35
1.4MHz	50%,low	699.7	QPSK	21.43	24.14
1.4MHz	50% RB mid	699.7	QPSK	21.11	25.18
1.4MHz	50%,high	699.7	QPSK	21.41	24.12
1.4MHz	100% RB	699.7	QPSK	20.20	25.26
1.4MHz	1 RB low	699.7	16QAM	20.46	25.22
1.4MHz	1 RB mid	699.7	16QAM	20.33	25.07
1.4MHz	1 RB high	699.7	16QAM	20.47	25.24
1.4MHz	50%,low	699.7	16QAM	21.45	24.16
1.4MHz	50% RB mid	699.7	16QAM	20.27	25.23
1.4MHz	50%,high	699.7	16QAM	21.44	24.15
1.4MHz	100% RB	699.7	16QAM	19.45	25.37
1.4MHz	1 RB low	707.5	QPSK	21.18	25.43
1.4MHz	1 RB mid	707.5	QPSK	21.15	25.35
1.4MHz	1 RB high	707.5	QPSK	21.29	25.52
1.4MHz	50%,low	707.5	QPSK	21.42	24.16
1.4MHz	50% RB mid	707.5	QPSK	21.04	25.44
1.4MHz	50%,high	707.5	QPSK	21.44	24.18
1.4MHz	100% RB	707.5	QPSK	20.16	25.22
1.4MHz	1 RB low	707.5	16QAM	20.38	25.40
1.4MHz	1 RB mid	707.5	16QAM	20.88	25.76
1.4MHz	1 RB high	707.5	16QAM	20.21	25.30
1.4MHz	50%,low	707.5	16QAM	20.81	23.57
1.4MHz	50% RB mid	707.5	16QAM	20.10	25.32
1.4MHz	50%,high	707.5	16QAM	21.27	24.00
1.4MHz	100% RB	707.5	16QAM	19.26	25.25
1.4MHz	1 RB low	715.3	QPSK	21.11	25.08
1.4MHz	1 RB mid	715.3	QPSK	21.28	25.12
1.4MHz	1 RB high	715.3	QPSK	21.24	25.11
1.4MHz	50%,low	715.3	QPSK	21.44	24.18

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1.4MHz	50% RB mid	715.3	QPSK	21.41	25.35
1.4MHz	50%,high	715.3	QPSK	21.34	24.10
1.4MHz	100% RB	715.3	QPSK	20.39	25.47
1.4MHz	1 RB low	715.3	16QAM	20.64	25.40
1.4MHz	1 RB mid	715.3	16QAM	20.71	25.36
1.4MHz	1 RB high	715.3	16QAM	20.55	25.31
1.4MHz	50%,low	715.3	16QAM	21.15	23.92
1.4MHz	50% RB mid	715.3	16QAM	20.06	25.01
1.4MHz	50%,high	715.3	16QAM	20.94	23.74
1.4MHz	100% RB	715.3	16QAM	19.19	24.80
3MHz	1 RB low	700.5	QPSK	21.26	25.20
3MHz	1 RB mid	700.5	QPSK	21.17	25.12
3MHz	1 RB high	700.5	QPSK	20.93	25.08
3MHz	50%,low	700.5	QPSK	20.96	23.71
3MHz	50% RB mid	700.5	QPSK	20.09	24.65
3MHz	50%,high	700.5	QPSK	20.94	23.69
3MHz	100% RB	700.5	QPSK	20.22	25.49
3MHz	1 RB low	700.5	16QAM	20.23	25.04
3MHz	1 RB mid	700.5	16QAM	20.35	25.10
3MHz	1 RB high	700.5	16QAM	20.31	25.25
3MHz	50%,low	700.5	16QAM	21.22	23.95
3MHz	50% RB mid	700.5	16QAM	19.20	24.65
3MHz	50%,high	700.5	16QAM	21.20	23.94
3MHz	100% RB	700.5	16QAM	19.19	25.17
3MHz	1 RB low	707.5	QPSK	20.86	25.17
3MHz	1 RB mid	707.5	QPSK	21.01	25.17
3MHz	1 RB high	707.5	QPSK	20.99	25.27
3MHz	50%,low	707.5	QPSK	21.52	24.25
3MHz	50% RB mid	707.5	QPSK	20.07	24.70
3MHz	50%,high	707.5	QPSK	21.49	24.22
3MHz	100% RB	707.5	QPSK	20.20	25.21
3MHz	1 RB low	707.5	16QAM	19.54	24.58
3MHz	1 RB mid	707.5	16QAM	20.54	25.38
3MHz	1 RB high	707.5	16QAM	19.90	24.97
3MHz	50%,low	707.5	16QAM	21.50	24.23
3MHz	50% RB mid	707.5	16QAM	19.21	24.61
3MHz	50%,high	707.5	16QAM	21.51	24.24
3MHz	100% RB	707.5	16QAM	19.17	25.12

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3MHz	1 RB low	714.5	QPSK	21.25	25.27
3MHz	1 RB mid	714.5	QPSK	21.16	25.03
3MHz	1 RB high	714.5	QPSK	21.31	25.16
3MHz	50%,low	714.5	QPSK	20.85	23.69
3MHz	50% RB mid	714.5	QPSK	20.36	24.71
3MHz	50%,high	714.5	QPSK	21.71	24.45
3MHz	100% RB	714.5	QPSK	20.40	25.43
3MHz	1 RB low	714.5	16QAM	20.99	25.73
3MHz	1 RB mid	714.5	16QAM	20.26	25.09
3MHz	1 RB high	714.5	16QAM	20.58	25.31
3MHz	50%,low	714.5	16QAM	21.76	24.49
3MHz	50% RB mid	714.5	16QAM	19.41	24.79
3MHz	50%,high	714.5	16QAM	21.76	24.49
3MHz	100% RB	714.5	16QAM	19.51	25.52
5MHz	1 RB low	701.5	QPSK	21.13	25.08
5MHz	1 RB mid	701.5	QPSK	21.20	25.15
5MHz	1 RB high	701.5	QPSK	20.96	25.10
5MHz	50%,low	701.5	QPSK	20.24	24.79
5MHz	50% RB mid	701.5	QPSK	20.15	24.63
5MHz	50%,high	701.5	QPSK	20.05	24.69
5MHz	100% RB	701.5	QPSK	20.02	25.16
5MHz	1 RB low	701.5	16QAM	20.34	25.18
5MHz	1 RB mid	701.5	16QAM	20.24	25.13
5MHz	1 RB high	701.5	16QAM	19.49	24.63
5MHz	50%,low	701.5	16QAM	19.14	24.65
5MHz	50% RB mid	701.5	16QAM	19.13	24.52
5MHz	50%,high	701.5	16QAM	18.86	24.37
5MHz	100% RB	701.5	16QAM	19.08	25.09
5MHz	1 RB low	707.5	QPSK	20.83	24.98
5MHz	1 RB mid	707.5	QPSK	21.24	25.30
5MHz	1 RB high	707.5	QPSK	21.00	25.18
5MHz	50%,low	707.5	QPSK	20.08	24.80
5MHz	50% RB mid	707.5	QPSK	20.04	24.53
5MHz	50%,high	707.5	QPSK	20.15	24.88
5MHz	100% RB	707.5	QPSK	19.92	25.23
5MHz	1 RB low	707.5	16QAM	19.37	24.54
5MHz	1 RB mid	707.5	16QAM	19.56	24.65
5MHz	1 RB high	707.5	16QAM	20.28	25.36

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5MHz	50%,low	707.5	16QAM	18.80	24.37
5MHz	50% RB mid	707.5	16QAM	19.04	24.44
5MHz	50%,high	707.5	16QAM	19.04	24.63
5MHz	100% RB	707.5	16QAM	18.84	25.01
5MHz	1 RB low	713.5	QPSK	21.30	25.31
5MHz	1 RB mid	713.5	QPSK	21.27	25.14
5MHz	1 RB high	713.5	QPSK	21.27	25.11
5MHz	50%,low	713.5	QPSK	20.22	24.86
5MHz	50% RB mid	713.5	QPSK	20.33	24.70
5MHz	50%,high	713.5	QPSK	20.27	24.85
5MHz	100% RB	713.5	QPSK	20.25	25.55
5MHz	1 RB low	713.5	16QAM	20.31	25.28
5MHz	1 RB mid	713.5	16QAM	20.63	25.35
5MHz	1 RB high	713.5	16QAM	20.50	25.21
5MHz	50%,low	713.5	16QAM	19.00	24.58
5MHz	50% RB mid	713.5	16QAM	19.08	24.43
5MHz	50%,high	713.5	16QAM	19.12	24.56
5MHz	100% RB	713.5	16QAM	19.17	25.02
10MHz	1 RB low	704	QPSK	20.71	24.86
10MHz	1 RB mid	704	QPSK	20.75	24.95
10MHz	1 RB high	704	QPSK	20.74	25.05
10MHz	50%,low	704	QPSK	20.00	24.69
10MHz	50% RB mid	704	QPSK	20.04	24.53
10MHz	50%,high	704	QPSK	20.09	24.79
10MHz	100% RB	704	QPSK	20.11	25.16
10MHz	1 RB low	707.5	QPSK	20.97	25.14
10MHz	1 RB mid	707.5	QPSK	21.21	25.40
10MHz	1 RB high	707.5	QPSK	21.32	25.40
10MHz	50%,low	707.5	QPSK	19.94	24.62
10MHz	50% RB mid	707.5	QPSK	19.98	24.53
10MHz	50%,high	707.5	QPSK	20.12	24.87
10MHz	100% RB	707.5	QPSK	20.05	25.92
10MHz	1 RB low	711	QPSK	20.81	25.14
10MHz	1 RB mid	711	QPSK	21.45	25.45
10MHz	1 RB high	711	QPSK	20.95	25.00
10MHz	50%,low	711	QPSK	20.15	24.87
10MHz	50% RB mid	711	QPSK	20.13	24.69
10MHz	50%,high	711	QPSK	20.22	24.95

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10MHz	100% RB	711	QPSK	20.21	26.09
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6.3. ERP and EIRP

Limit Level Construction:

This is the test for the maximum radiated power from the EUT.

According to Part 24.232(c): Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to Part 27.50(d), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz Band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz Bands are limited to 1 watt EIRP..

According to Part 27.50(c)(10): Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

Conducted RF Power+Antenna Gain(dBi)=EIRP

Conducted RF Power+Antenna Gain(dBd)=ERP

Antenna Gain(dBd)= Antenna Gain(dBi)-2.15

Frequency Band	AntennaGain (dBi)	AntennaGain (dBd)
LTE Band 2	-4	N/A
LTE Band 4	-4	N/A
LTE Band 12	N/A	-5.15

Antenna Style: Metal antenna

6.3.1 LTE Band 4 result

LTE Band 2 EIRP LIMIT:33dBm

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	EIRP (dBm) Max EIRP :17.14
1.4MHz	1 RB low	1850.7	QPSK	20.81	16.81
1.4MHz	1 RB mid	1850.7	QPSK	20.98	16.98
1.4MHz	1 RB high	1850.7	QPSK	21.00	17.00
1.4MHz	50%,low	1850.7	QPSK	20.86	16.86
1.4MHz	50% RB mid	1850.7	QPSK	20.71	16.71
1.4MHz	50%,high	1850.7	QPSK	20.80	16.80
1.4MHz	100% RB	1850.7	QPSK	19.78	15.78
1.4MHz	1 RB low	1850.7	16QAM	20.00	16.00
1.4MHz	1 RB mid	1850.7	16QAM	20.24	16.24
1.4MHz	1 RB high	1850.7	16QAM	19.84	15.84
1.4MHz	50%,low	1850.7	16QAM	20.49	16.49
1.4MHz	50% RB mid	1850.7	16QAM	19.75	15.75
1.4MHz	50%,high	1850.7	16QAM	20.63	16.63
1.4MHz	100% RB	1850.7	16QAM	18.76	14.76
1.4MHz	1 RB low	1880	QPSK	20.27	16.27
1.4MHz	1 RB mid	1880	QPSK	20.34	16.34
1.4MHz	1 RB high	1880	QPSK	20.42	16.42
1.4MHz	50%,low	1880	QPSK	20.02	16.02
1.4MHz	50% RB mid	1880	QPSK	20.40	16.40
1.4MHz	50%,high	1880	QPSK	20.17	16.17
1.4MHz	100% RB	1880	QPSK	19.25	15.25
1.4MHz	1 RB low	1880	16QAM	19.55	15.55
1.4MHz	1 RB mid	1880	16QAM	19.77	15.77
1.4MHz	1 RB high	1880	16QAM	19.65	15.65
1.4MHz	50%,low	1880	16QAM	20.33	16.33
1.4MHz	50% RB mid	1880	16QAM	19.35	15.35
1.4MHz	50%,high	1880	16QAM	20.18	16.18
1.4MHz	100% RB	1880	16QAM	18.13	14.13
1.4MHz	1 RB low	1909.3	QPSK	20.68	16.68
1.4MHz	1 RB mid	1909.3	QPSK	20.66	16.66
1.4MHz	1 RB high	1909.3	QPSK	20.62	16.62
1.4MHz	50%,low	1909.3	QPSK	20.66	16.66
1.4MHz	50% RB mid	1909.3	QPSK	20.58	16.58
1.4MHz	50%,high	1909.3	QPSK	20.68	16.68

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1.4MHz	100% RB	1909.3	QPSK	19.58	15.58
1.4MHz	1 RB low	1909.3	16QAM	19.77	15.77
1.4MHz	1 RB mid	1909.3	16QAM	19.67	15.67
1.4MHz	1 RB high	1909.3	16QAM	19.46	15.46
1.4MHz	50%,low	1909.3	16QAM	20.60	16.60
1.4MHz	50% RB mid	1909.3	16QAM	19.53	15.53
1.4MHz	50%,high	1909.3	16QAM	20.64	16.64
1.4MHz	100% RB	1909.3	16QAM	18.53	14.53
3MHz	1 RB low	1851.5	QPSK	20.48	16.48
3MHz	1 RB mid	1851.5	QPSK	20.36	16.36
3MHz	1 RB high	1851.5	QPSK	20.35	16.35
3MHz	50%,low	1851.5	QPSK	20.50	16.50
3MHz	50% RB mid	1851.5	QPSK	19.47	15.47
3MHz	50%,high	1851.5	QPSK	20.52	16.52
3MHz	100% RB	1851.5	QPSK	19.31	15.31
3MHz	1 RB low	1851.5	16QAM	19.22	15.22
3MHz	1 RB mid	1851.5	16QAM	19.23	15.23
3MHz	1 RB high	1851.5	16QAM	19.05	15.05
3MHz	50%,low	1851.5	16QAM	20.16	16.16
3MHz	50% RB mid	1851.5	16QAM	18.42	14.42
3MHz	50%,high	1851.5	16QAM	20.08	16.08
3MHz	100% RB	1851.5	16QAM	18.32	14.32
3MHz	1 RB low	1880	QPSK	20.25	16.25
3MHz	1 RB mid	1880	QPSK	19.95	15.95
3MHz	1 RB high	1880	QPSK	19.96	15.96
3MHz	50%,low	1880	QPSK	19.79	15.79
3MHz	50% RB mid	1880	QPSK	18.99	14.99
3MHz	50%,high	1880	QPSK	19.91	15.91
3MHz	100% RB	1880	QPSK	19.05	15.05
3MHz	1 RB low	1880	16QAM	19.35	15.35
3MHz	1 RB mid	1880	16QAM	19.35	15.35
3MHz	1 RB high	1880	16QAM	19.45	15.45
3MHz	50%,low	1880	16QAM	19.77	15.77
3MHz	50% RB mid	1880	16QAM	18.06	14.06
3MHz	50%,high	1880	16QAM	19.88	15.88
3MHz	100% RB	1880	16QAM	18.01	14.01
3MHz	1 RB low	1908.5	QPSK	20.44	16.44
3MHz	1 RB mid	1908.5	QPSK	20.34	16.34

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3MHz	1 RB high	1908.5	QPSK	20.46	16.46
3MHz	50%,low	1908.5	QPSK	20.55	16.55
3MHz	50% RB mid	1908.5	QPSK	19.45	15.45
3MHz	50%,high	1908.5	QPSK	20.54	16.54
3MHz	100% RB	1908.5	QPSK	19.49	15.49
3MHz	1 RB low	1908.5	16QAM	19.31	15.31
3MHz	1 RB mid	1908.5	16QAM	19.48	15.48
3MHz	1 RB high	1908.5	16QAM	19.51	15.51
3MHz	50%,low	1908.5	16QAM	20.57	16.57
3MHz	50% RB mid	1908.5	16QAM	18.49	14.49
3MHz	50%,high	1908.5	16QAM	20.56	16.56
3MHz	100% RB	1908.5	16QAM	18.66	14.66
5MHz	1 RB low	1852.5	QPSK	20.32	16.32
5MHz	1 RB mid	1852.5	QPSK	20.44	16.44
5MHz	1 RB high	1852.5	QPSK	20.21	16.21
5MHz	50%,low	1852.5	QPSK	19.27	15.27
5MHz	50% RB mid	1852.5	QPSK	19.27	15.27
5MHz	50%,high	1852.5	QPSK	19.44	15.44
5MHz	100% RB	1852.5	QPSK	19.32	15.32
5MHz	1 RB low	1852.5	16QAM	19.33	15.33
5MHz	1 RB mid	1852.5	16QAM	19.57	15.57
5MHz	1 RB high	1852.5	16QAM	19.03	15.03
5MHz	50%,low	1852.5	16QAM	18.35	14.35
5MHz	50% RB mid	1852.5	16QAM	18.28	14.28
5MHz	50%,high	1852.5	16QAM	18.44	14.44
5MHz	100% RB	1852.5	16QAM	18.48	14.48
5MHz	1 RB low	1880	QPSK	20.06	16.06
5MHz	1 RB mid	1880	QPSK	20.08	16.08
5MHz	1 RB high	1880	QPSK	19.97	15.97
5MHz	50%,low	1880	QPSK	19.02	15.02
5MHz	50% RB mid	1880	QPSK	19.09	15.09
5MHz	50%,high	1880	QPSK	19.02	15.02
5MHz	100% RB	1880	QPSK	19.04	15.04
5MHz	1 RB low	1880	16QAM	18.64	14.64
5MHz	1 RB mid	1880	16QAM	18.71	14.71
5MHz	1 RB high	1880	16QAM	18.37	14.37
5MHz	50%,low	1880	16QAM	18.15	14.15
5MHz	50% RB mid	1880	16QAM	18.08	14.08

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5MHz	50%,high	1880	16QAM	18.16	14.16
5MHz	100% RB	1880	16QAM	18.06	14.06
5MHz	1 RB low	1907.5	QPSK	20.48	16.48
5MHz	1 RB mid	1907.5	QPSK	20.62	16.62
5MHz	1 RB high	1907.5	QPSK	20.24	16.24
5MHz	50%,low	1907.5	QPSK	19.55	15.55
5MHz	50% RB mid	1907.5	QPSK	19.49	15.49
5MHz	50%,high	1907.5	QPSK	19.51	15.51
5MHz	100% RB	1907.5	QPSK	19.45	15.45
5MHz	1 RB low	1907.5	16QAM	19.38	15.38
5MHz	1 RB mid	1907.5	16QAM	19.61	15.61
5MHz	1 RB high	1907.5	16QAM	19.37	15.37
5MHz	50%,low	1907.5	16QAM	18.30	14.30
5MHz	50% RB mid	1907.5	16QAM	18.31	14.31
5MHz	50%,high	1907.5	16QAM	18.27	14.27
5MHz	100% RB	1907.5	16QAM	18.49	14.49
10MHz	1 RB low	1855	QPSK	20.45	16.45
10MHz	1 RB mid	1855	QPSK	20.61	16.61
10MHz	1 RB high	1855	QPSK	20.39	16.39
10MHz	50%,low	1855	QPSK	19.47	15.47
10MHz	50% RB mid	1855	QPSK	19.51	15.51
10MHz	50%,high	1855	QPSK	19.44	15.44
10MHz	100% RB	1855	QPSK	19.42	15.42
10MHz	1 RB low	1880	QPSK	20.04	16.04
10MHz	1 RB mid	1880	QPSK	20.37	16.37
10MHz	1 RB high	1880	QPSK	20.00	16.00
10MHz	50%,low	1880	QPSK	19.05	15.05
10MHz	50% RB mid	1880	QPSK	19.06	15.06
10MHz	50%,high	1880	QPSK	19.10	15.10
10MHz	100% RB	1880	QPSK	19.05	15.05
10MHz	1 RB low	1905	QPSK	20.62	16.62
10MHz	1 RB mid	1905	QPSK	20.64	16.64
10MHz	1 RB high	1905	QPSK	20.47	16.47
10MHz	50%,low	1905	QPSK	19.56	15.56
10MHz	50% RB mid	1905	QPSK	19.56	15.56
10MHz	50%,high	1905	QPSK	19.47	15.47
10MHz	100% RB	1905	QPSK	19.62	15.62
15MHz	1 RB low	1857.5	QPSK	20.30	16.30

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15MHz	1 RB mid	1857.5	QPSK	20.41	16.41
15MHz	1 RB high	1857.5	QPSK	20.37	16.37
15MHz	50%,low	1857.5	QPSK	19.35	15.35
15MHz	50% RB mid	1857.5	QPSK	19.32	15.32
15MHz	50%,high	1857.5	QPSK	19.32	15.32
15MHz	100% RB	1857.5	QPSK	19.18	15.18
15MHz	1 RB low	1880	QPSK	20.30	16.30
15MHz	1 RB mid	1880	QPSK	20.17	16.17
15MHz	1 RB high	1880	QPSK	20.27	16.27
15MHz	50%,low	1880	QPSK	19.27	15.27
15MHz	50% RB mid	1880	QPSK	19.24	15.24
15MHz	50%,high	1880	QPSK	19.21	15.21
15MHz	100% RB	1880	QPSK	19.19	15.19
15MHz	1 RB low	1902.5	QPSK	20.70	16.70
15MHz	1 RB mid	1902.5	QPSK	20.60	16.60
15MHz	1 RB high	1902.5	QPSK	20.59	16.59
15MHz	50%,low	1902.5	QPSK	19.78	15.78
15MHz	50% RB mid	1902.5	QPSK	19.66	15.66
15MHz	50%,high	1902.5	QPSK	19.61	15.61
15MHz	100% RB	1902.5	QPSK	19.48	15.48
20MHz	1 RB low	1860	QPSK	20.48	16.48
20MHz	1 RB mid	1860	QPSK	20.73	16.73
20MHz	1 RB high	1860	QPSK	20.28	16.28
20MHz	50%,low	1860	QPSK	19.53	15.53
20MHz	50% RB mid	1860	QPSK	19.59	15.59
20MHz	50%,high	1860	QPSK	19.46	15.46
20MHz	100% RB	1860	QPSK	19.42	15.42
20MHz	1 RB low	1880	QPSK	20.21	16.21
20MHz	1 RB mid	1880	QPSK	20.26	16.26
20MHz	1 RB high	1880	QPSK	20.28	16.28
20MHz	50%,low	1880	QPSK	19.30	15.30
20MHz	50% RB mid	1880	QPSK	19.25	15.25
20MHz	50%,high	1880	QPSK	19.28	15.28
20MHz	100% RB	1880	QPSK	19.29	15.29
20MHz	1 RB low	1900	QPSK	20.21	16.21
20MHz	1 RB mid	1900	QPSK	21.14	17.14
20MHz	1 RB high	1900	QPSK	20.43	16.43
20MHz	50%,low	1900	QPSK	19.77	15.77

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20MHz	50% RB mid	1900	QPSK	19.83	15.83
20MHz	50%,high	1900	QPSK	19.66	15.66
20MHz	100% RB	1900	QPSK	19.67	15.67

LTE Band4
EIRP Limits 30dBm(1w)

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	EIRP (dBm) Max EIRP :17.29
1.4MHz	1 RB low	1710.7	QPSK	21.10	17.10
1.4MHz	1 RB mid	1710.7	QPSK	21.22	17.22
1.4MHz	1 RB high	1710.7	QPSK	21.09	17.09
1.4MHz	50%,low	1710.7	QPSK	21.00	17.00
1.4MHz	50% RB mid	1710.7	QPSK	20.94	16.94
1.4MHz	50%,high	1710.7	QPSK	20.91	16.91
1.4MHz	100% RB	1710.7	QPSK	19.89	15.89
1.4MHz	1 RB low	1710.7	16QAM	20.42	16.42
1.4MHz	1 RB mid	1710.7	16QAM	20.19	16.19
1.4MHz	1 RB high	1710.7	16QAM	19.72	15.72
1.4MHz	50%,low	1710.7	16QAM	20.77	16.77
1.4MHz	50% RB mid	1710.7	16QAM	19.52	15.52
1.4MHz	50%,high	1710.7	16QAM	20.82	16.82
1.4MHz	100% RB	1710.7	16QAM	18.70	14.70
1.4MHz	1 RB low	1732.5	QPSK	20.68	16.68
1.4MHz	1 RB mid	1732.5	QPSK	20.96	16.96
1.4MHz	1 RB high	1732.5	QPSK	20.67	16.67
1.4MHz	50%,low	1732.5	QPSK	20.89	16.89
1.4MHz	50% RB mid	1732.5	QPSK	20.73	16.73
1.4MHz	50%,high	1732.5	QPSK	20.87	16.87
1.4MHz	100% RB	1732.5	QPSK	19.78	15.78
1.4MHz	1 RB low	1732.5	16QAM	19.77	15.77
1.4MHz	1 RB mid	1732.5	16QAM	19.52	15.52
1.4MHz	1 RB high	1732.5	16QAM	19.61	15.61
1.4MHz	50%,low	1732.5	16QAM	20.85	16.85
1.4MHz	50% RB mid	1732.5	16QAM	19.94	15.94
1.4MHz	50%,high	1732.5	16QAM	20.82	16.82
1.4MHz	100% RB	1732.5	16QAM	18.79	14.79
1.4MHz	1 RB low	1754.3	QPSK	20.89	16.89
1.4MHz	1 RB mid	1754.3	QPSK	20.88	16.88

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1.4MHz	1 RB high	1754.3	QPSK	20.85	16.85
1.4MHz	50%,low	1754.3	QPSK	20.40	16.40
1.4MHz	50% RB mid	1754.3	QPSK	20.61	16.61
1.4MHz	50%,high	1754.3	QPSK	20.36	16.36
1.4MHz	100% RB	1754.3	QPSK	19.68	15.68
1.4MHz	1 RB low	1754.3	16QAM	20.01	16.01
1.4MHz	1 RB mid	1754.3	16QAM	20.01	16.01
1.4MHz	1 RB high	1754.3	16QAM	19.87	15.87
1.4MHz	50%,low	1754.3	16QAM	20.82	16.82
1.4MHz	50% RB mid	1754.3	16QAM	19.96	15.96
1.4MHz	50%,high	1754.3	16QAM	20.79	16.79
1.4MHz	100% RB	1754.3	16QAM	18.86	14.86
3MHz	1 RB low	1711.5	QPSK	20.82	16.82
3MHz	1 RB mid	1711.5	QPSK	20.90	16.90
3MHz	1 RB high	1711.5	QPSK	20.95	16.95
3MHz	50%,low	1711.5	QPSK	20.90	16.90
3MHz	50% RB mid	1711.5	QPSK	19.90	15.90
3MHz	50%,high	1711.5	QPSK	20.77	16.77
3MHz	100% RB	1711.5	QPSK	19.80	15.80
3MHz	1 RB low	1711.5	16QAM	19.66	15.66
3MHz	1 RB mid	1711.5	16QAM	19.68	15.68
3MHz	1 RB high	1711.5	16QAM	19.80	15.80
3MHz	50%,low	1711.5	16QAM	20.79	16.79
3MHz	50% RB mid	1711.5	16QAM	18.99	14.99
3MHz	50%,high	1711.5	16QAM	20.75	16.75
3MHz	100% RB	1711.5	16QAM	18.85	14.85
3MHz	1 RB low	1732.5	QPSK	20.81	16.81
3MHz	1 RB mid	1732.5	QPSK	20.92	16.92
3MHz	1 RB high	1732.5	QPSK	20.79	16.79
3MHz	50%,low	1732.5	QPSK	20.68	16.68
3MHz	50% RB mid	1732.5	QPSK	19.66	15.66
3MHz	50%,high	1732.5	QPSK	20.66	16.66
3MHz	100% RB	1732.5	QPSK	19.70	15.70
3MHz	1 RB low	1732.5	16QAM	19.92	15.92
3MHz	1 RB mid	1732.5	16QAM	20.04	16.04
3MHz	1 RB high	1732.5	16QAM	19.91	15.91
3MHz	50%,low	1732.5	16QAM	20.70	16.70
3MHz	50% RB mid	1732.5	16QAM	18.69	14.69

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3MHz	50%,high	1732.5	16QAM	20.51	16.51
3MHz	100% RB	1732.5	16QAM	18.74	14.74
3MHz	1 RB low	1753.5	QPSK	20.41	16.41
3MHz	1 RB mid	1753.5	QPSK	20.76	16.76
3MHz	1 RB high	1753.5	QPSK	20.58	16.58
3MHz	50%,low	1753.5	QPSK	20.90	16.90
3MHz	50% RB mid	1753.5	QPSK	19.73	15.73
3MHz	50%,high	1753.5	QPSK	20.88	16.88
3MHz	100% RB	1753.5	QPSK	19.69	15.69
3MHz	1 RB low	1753.5	16QAM	19.51	15.51
3MHz	1 RB mid	1753.5	16QAM	19.46	15.46
3MHz	1 RB high	1753.5	16QAM	19.74	15.74
3MHz	50%,low	1753.5	16QAM	20.84	16.84
3MHz	50% RB mid	1753.5	16QAM	18.81	14.81
3MHz	50%,high	1753.5	16QAM	20.83	16.83
3MHz	100% RB	1753.5	16QAM	18.67	14.67
5MHz	1 RB low	1712.5	QPSK	20.84	16.84
5MHz	1 RB mid	1712.5	QPSK	21.04	17.04
5MHz	1 RB high	1712.5	QPSK	21.03	17.03
5MHz	50%,low	1712.5	QPSK	19.86	15.86
5MHz	50% RB mid	1712.5	QPSK	19.85	15.85
5MHz	50%,high	1712.5	QPSK	19.98	15.98
5MHz	100% RB	1712.5	QPSK	19.91	15.91
5MHz	1 RB low	1712.5	16QAM	19.67	15.67
5MHz	1 RB mid	1712.5	16QAM	20.09	16.09
5MHz	1 RB high	1712.5	16QAM	19.91	15.91
5MHz	50%,low	1712.5	16QAM	18.90	14.90
5MHz	50% RB mid	1712.5	16QAM	18.82	14.82
5MHz	50%,high	1712.5	16QAM	18.90	14.90
5MHz	100% RB	1712.5	16QAM	18.94	14.94
5MHz	1 RB low	1732.5	QPSK	20.59	16.59
5MHz	1 RB mid	1732.5	QPSK	20.63	16.63
5MHz	1 RB high	1732.5	QPSK	20.70	16.70
5MHz	50%,low	1732.5	QPSK	19.63	15.63
5MHz	50% RB mid	1732.5	QPSK	19.75	15.75
5MHz	50%,high	1732.5	QPSK	19.69	15.69
5MHz	100% RB	1732.5	QPSK	19.73	15.73
5MHz	1 RB low	1732.5	16QAM	19.26	15.26

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5MHz	1 RB mid	1732.5	16QAM	19.27	15.27
5MHz	1 RB high	1732.5	16QAM	19.11	15.11
5MHz	50%,low	1732.5	16QAM	18.78	14.78
5MHz	50% RB mid	1732.5	16QAM	18.86	14.86
5MHz	50%,high	1732.5	16QAM	18.68	14.68
5MHz	100% RB	1732.5	16QAM	18.79	14.79
5MHz	1 RB low	1752.5	QPSK	20.55	16.55
5MHz	1 RB mid	1752.5	QPSK	20.87	16.87
5MHz	1 RB high	1752.5	QPSK	20.82	16.82
5MHz	50%,low	1752.5	QPSK	19.76	15.76
5MHz	50% RB mid	1752.5	QPSK	19.81	15.81
5MHz	50%,high	1752.5	QPSK	19.76	15.76
5MHz	100% RB	1752.5	QPSK	19.82	15.82
5MHz	1 RB low	1752.5	16QAM	19.79	15.79
5MHz	1 RB mid	1752.5	16QAM	19.99	15.99
5MHz	1 RB high	1752.5	16QAM	20.07	16.07
5MHz	50%,low	1752.5	16QAM	18.48	14.48
5MHz	50% RB mid	1752.5	16QAM	18.74	14.74
5MHz	50%,high	1752.5	16QAM	18.75	14.75
5MHz	100% RB	1752.5	16QAM	18.88	14.88
10MHz	1 RB low	1715	QPSK	20.72	16.72
10MHz	1 RB mid	1715	QPSK	21.29	17.29
10MHz	1 RB high	1715	QPSK	20.80	16.80
10MHz	50%,low	1715	QPSK	19.76	15.76
10MHz	50% RB mid	1715	QPSK	19.92	15.92
10MHz	50%,high	1715	QPSK	19.83	15.83
10MHz	100% RB	1715	QPSK	19.83	15.83
10MHz	1 RB low	1732.5	QPSK	20.49	16.49
10MHz	1 RB mid	1732.5	QPSK	20.78	16.78
10MHz	1 RB high	1732.5	QPSK	20.84	16.84
10MHz	50%,low	1732.5	QPSK	19.71	15.71
10MHz	50% RB mid	1732.5	QPSK	19.67	15.67
10MHz	50%,high	1732.5	QPSK	19.73	15.73
10MHz	100% RB	1732.5	QPSK	19.78	15.78
10MHz	1 RB low	1750	QPSK	20.47	16.47
10MHz	1 RB mid	1750	QPSK	20.56	16.56
10MHz	1 RB high	1750	QPSK	20.73	16.73
10MHz	50%,low	1750	QPSK	19.49	15.49

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10MHz	50% RB mid	1750	QPSK	19.63	15.63
10MHz	50%,high	1750	QPSK	19.70	15.70
10MHz	100% RB	1750	QPSK	19.70	15.70
15MHz	1 RB low	1717.5	QPSK	20.88	16.88
15MHz	1 RB mid	1717.5	QPSK	20.77	16.77
15MHz	1 RB high	1717.5	QPSK	20.69	16.69
15MHz	50%,low	1717.5	QPSK	19.74	15.74
15MHz	50% RB mid	1717.5	QPSK	19.91	15.91
15MHz	50%,high	1717.5	QPSK	19.81	15.81
15MHz	100% RB	1717.5	QPSK	19.86	15.86
15MHz	1 RB low	1732.5	QPSK	20.96	16.96
15MHz	1 RB mid	1732.5	QPSK	20.63	16.63
15MHz	1 RB high	1732.5	QPSK	20.55	16.55
15MHz	50%,low	1732.5	QPSK	19.77	15.77
15MHz	50% RB mid	1732.5	QPSK	19.75	15.75
15MHz	50%,high	1732.5	QPSK	19.68	15.68
15MHz	100% RB	1732.5	QPSK	19.72	15.72
15MHz	1 RB low	1747.5	QPSK	20.67	16.67
15MHz	1 RB mid	1747.5	QPSK	20.42	16.42
15MHz	1 RB high	1747.5	QPSK	20.91	16.91
15MHz	50%,low	1747.5	QPSK	19.62	15.62
15MHz	50% RB mid	1747.5	QPSK	19.50	15.50
15MHz	50%,high	1747.5	QPSK	19.52	15.52
15MHz	100% RB	1747.5	QPSK	19.57	15.57
20MHz	1 RB low	1720	QPSK	20.75	16.75
20MHz	1 RB mid	1720	QPSK	21.22	17.22
20MHz	1 RB high	1720	QPSK	21.09	17.09
20MHz	50%,low	1720	QPSK	19.89	15.89
20MHz	50% RB mid	1720	QPSK	19.90	15.90
20MHz	50%,high	1720	QPSK	19.83	15.83
20MHz	100% RB	1720	QPSK	19.90	15.90
20MHz	1 RB low	1732.5	QPSK	20.85	16.85
20MHz	1 RB mid	1732.5	QPSK	20.81	16.81
20MHz	1 RB high	1732.5	QPSK	20.57	16.57
20MHz	50%,low	1732.5	QPSK	19.71	15.71
20MHz	50% RB mid	1732.5	QPSK	19.78	15.78
20MHz	50%,high	1732.5	QPSK	19.87	15.87
20MHz	100% RB	1732.5	QPSK	19.83	15.83

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20MHz	1 RB low	1745	QPSK	20.60	16.60
20MHz	1 RB mid	1745	QPSK	20.63	16.63
20MHz	1 RB high	1745	QPSK	20.91	16.91
20MHz	50%,low	1745	QPSK	19.67	15.67
20MHz	50% RB mid	1745	QPSK	19.71	15.71
20MHz	50%,high	1745	QPSK	19.65	15.65
20MHz	100% RB	1745	QPSK	19.62	15.62

6.3.2 LTE Band 12 result

LTE Band 12

ERP Limits 34.8dBm(3w)

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	ERP (dBm) Max ERP :16.61
1.4MHz	1 RB low	699.7	QPSK	21.06	15.91
1.4MHz	1 RB mid	699.7	QPSK	21.27	16.12
1.4MHz	1 RB high	699.7	QPSK	21.46	16.31
1.4MHz	50%,low	699.7	QPSK	21.43	16.28
1.4MHz	50% RB mid	699.7	QPSK	21.11	15.96
1.4MHz	50%,high	699.7	QPSK	21.41	16.26
1.4MHz	100% RB	699.7	QPSK	20.20	15.05
1.4MHz	1 RB low	699.7	16QAM	20.46	15.31
1.4MHz	1 RB mid	699.7	16QAM	20.33	15.18
1.4MHz	1 RB high	699.7	16QAM	20.47	15.32
1.4MHz	50%,low	699.7	16QAM	21.45	16.30
1.4MHz	50% RB mid	699.7	16QAM	20.27	15.12
1.4MHz	50%,high	699.7	16QAM	21.44	16.29
1.4MHz	100% RB	699.7	16QAM	19.45	14.30
1.4MHz	1 RB low	707.5	QPSK	21.18	16.03
1.4MHz	1 RB mid	707.5	QPSK	21.15	16.00
1.4MHz	1 RB high	707.5	QPSK	21.29	16.14
1.4MHz	50%,low	707.5	QPSK	21.42	16.27
1.4MHz	50% RB mid	707.5	QPSK	21.04	15.89
1.4MHz	50%,high	707.5	QPSK	21.44	16.29
1.4MHz	100% RB	707.5	QPSK	20.16	15.01
1.4MHz	1 RB low	707.5	16QAM	20.38	15.23
1.4MHz	1 RB mid	707.5	16QAM	20.88	15.73
1.4MHz	1 RB high	707.5	16QAM	20.21	15.06
1.4MHz	50%,low	707.5	16QAM	20.81	15.66

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1.4MHz	50% RB mid	707.5	16QAM	20.10	14.95
1.4MHz	50%,high	707.5	16QAM	21.27	16.12
1.4MHz	100% RB	707.5	16QAM	19.26	14.11
1.4MHz	1 RB low	715.3	QPSK	21.11	15.96
1.4MHz	1 RB mid	715.3	QPSK	21.28	16.13
1.4MHz	1 RB high	715.3	QPSK	21.24	16.09
1.4MHz	50%,low	715.3	QPSK	21.44	16.29
1.4MHz	50% RB mid	715.3	QPSK	21.41	16.26
1.4MHz	50%,high	715.3	QPSK	21.34	16.19
1.4MHz	100% RB	715.3	QPSK	20.39	15.24
1.4MHz	1 RB low	715.3	16QAM	20.64	15.49
1.4MHz	1 RB mid	715.3	16QAM	20.71	15.56
1.4MHz	1 RB high	715.3	16QAM	20.55	15.40
1.4MHz	50%,low	715.3	16QAM	21.15	16.00
1.4MHz	50% RB mid	715.3	16QAM	20.06	14.91
1.4MHz	50%,high	715.3	16QAM	20.94	15.79
1.4MHz	100% RB	715.3	16QAM	19.19	14.04
3MHz	1 RB low	700.5	QPSK	21.26	16.11
3MHz	1 RB mid	700.5	QPSK	21.17	16.02
3MHz	1 RB high	700.5	QPSK	20.93	15.78
3MHz	50%,low	700.5	QPSK	20.96	15.81
3MHz	50% RB mid	700.5	QPSK	20.09	14.94
3MHz	50%,high	700.5	QPSK	20.94	15.79
3MHz	100% RB	700.5	QPSK	20.22	15.07
3MHz	1 RB low	700.5	16QAM	20.23	15.08
3MHz	1 RB mid	700.5	16QAM	20.35	15.20
3MHz	1 RB high	700.5	16QAM	20.31	15.16
3MHz	50%,low	700.5	16QAM	21.22	16.07
3MHz	50% RB mid	700.5	16QAM	19.20	14.05
3MHz	50%,high	700.5	16QAM	21.20	16.05
3MHz	100% RB	700.5	16QAM	19.19	14.04
3MHz	1 RB low	707.5	QPSK	20.86	15.71
3MHz	1 RB mid	707.5	QPSK	21.01	15.86
3MHz	1 RB high	707.5	QPSK	20.99	15.84
3MHz	50%,low	707.5	QPSK	21.52	16.37
3MHz	50% RB mid	707.5	QPSK	20.07	14.92
3MHz	50%,high	707.5	QPSK	21.49	16.34
3MHz	100% RB	707.5	QPSK	20.20	15.05

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3MHz	1 RB low	707.5	16QAM	19.54	14.39
3MHz	1 RB mid	707.5	16QAM	20.54	15.39
3MHz	1 RB high	707.5	16QAM	19.90	14.75
3MHz	50%,low	707.5	16QAM	21.50	16.35
3MHz	50% RB mid	707.5	16QAM	19.21	14.06
3MHz	50%,high	707.5	16QAM	21.51	16.36
3MHz	100% RB	707.5	16QAM	19.17	14.02
3MHz	1 RB low	714.5	QPSK	21.25	16.10
3MHz	1 RB mid	714.5	QPSK	21.16	16.01
3MHz	1 RB high	714.5	QPSK	21.31	16.16
3MHz	50%,low	714.5	QPSK	20.85	15.70
3MHz	50% RB mid	714.5	QPSK	20.36	15.21
3MHz	50%,high	714.5	QPSK	21.71	16.56
3MHz	100% RB	714.5	QPSK	20.40	15.25
3MHz	1 RB low	714.5	16QAM	20.99	15.84
3MHz	1 RB mid	714.5	16QAM	20.26	15.11
3MHz	1 RB high	714.5	16QAM	20.58	15.43
3MHz	50%,low	714.5	16QAM	21.76	16.61
3MHz	50% RB mid	714.5	16QAM	19.41	14.26
3MHz	50%,high	714.5	16QAM	21.76	16.61
3MHz	100% RB	714.5	16QAM	19.51	14.36
5MHz	1 RB low	701.5	QPSK	21.13	15.98
5MHz	1 RB mid	701.5	QPSK	21.20	16.05
5MHz	1 RB high	701.5	QPSK	20.96	15.81
5MHz	50%,low	701.5	QPSK	20.24	15.09
5MHz	50% RB mid	701.5	QPSK	20.15	15.00
5MHz	50%,high	701.5	QPSK	20.05	14.90
5MHz	100% RB	701.5	QPSK	20.02	14.87
5MHz	1 RB low	701.5	16QAM	20.34	15.19
5MHz	1 RB mid	701.5	16QAM	20.24	15.09
5MHz	1 RB high	701.5	16QAM	19.49	14.34
5MHz	50%,low	701.5	16QAM	19.14	13.99
5MHz	50% RB mid	701.5	16QAM	19.13	13.98
5MHz	50%,high	701.5	16QAM	18.86	13.71
5MHz	100% RB	701.5	16QAM	19.08	13.93
5MHz	1 RB low	707.5	QPSK	20.83	15.68
5MHz	1 RB mid	707.5	QPSK	21.24	16.09
5MHz	1 RB high	707.5	QPSK	21.00	15.85

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5MHz	50%,low	707.5	QPSK	20.08	14.93
5MHz	50% RB mid	707.5	QPSK	20.04	14.89
5MHz	50%,high	707.5	QPSK	20.15	15.00
5MHz	100% RB	707.5	QPSK	19.92	14.77
5MHz	1 RB low	707.5	16QAM	19.37	14.22
5MHz	1 RB mid	707.5	16QAM	19.56	14.41
5MHz	1 RB high	707.5	16QAM	20.28	15.13
5MHz	50%,low	707.5	16QAM	18.80	13.65
5MHz	50% RB mid	707.5	16QAM	19.04	13.89
5MHz	50%,high	707.5	16QAM	19.04	13.89
5MHz	100% RB	707.5	16QAM	18.84	13.69
5MHz	1 RB low	713.5	QPSK	21.30	16.15
5MHz	1 RB mid	713.5	QPSK	21.27	16.12
5MHz	1 RB high	713.5	QPSK	21.27	16.12
5MHz	50%,low	713.5	QPSK	20.22	15.07
5MHz	50% RB mid	713.5	QPSK	20.33	15.18
5MHz	50%,high	713.5	QPSK	20.27	15.12
5MHz	100% RB	713.5	QPSK	20.25	15.10
5MHz	1 RB low	713.5	16QAM	20.31	15.16
5MHz	1 RB mid	713.5	16QAM	20.63	15.48
5MHz	1 RB high	713.5	16QAM	20.50	15.35
5MHz	50%,low	713.5	16QAM	19.00	13.85
5MHz	50% RB mid	713.5	16QAM	19.08	13.93
5MHz	50%,high	713.5	16QAM	19.12	13.97
5MHz	100% RB	713.5	16QAM	19.17	14.02
10MHz	1 RB low	704	QPSK	20.71	15.56
10MHz	1 RB mid	704	QPSK	20.75	15.60
10MHz	1 RB high	704	QPSK	20.74	15.59
10MHz	50%,low	704	QPSK	20.00	14.85
10MHz	50% RB mid	704	QPSK	20.04	14.89
10MHz	50%,high	704	QPSK	20.09	14.94
10MHz	100% RB	704	QPSK	20.11	14.96
10MHz	1 RB low	707.5	QPSK	20.97	15.82
10MHz	1 RB mid	707.5	QPSK	21.21	16.06
10MHz	1 RB high	707.5	QPSK	21.32	16.17
10MHz	50%,low	707.5	QPSK	19.94	14.79
10MHz	50% RB mid	707.5	QPSK	19.98	14.83
10MHz	50%,high	707.5	QPSK	20.12	14.97

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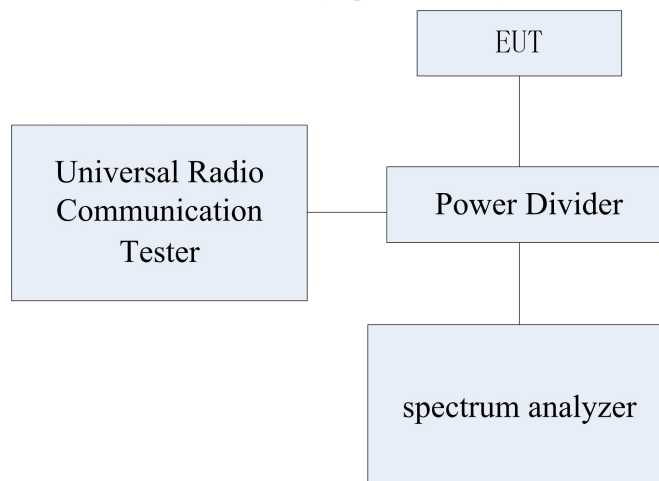
10MHz	100% RB	707.5	QPSK	20.05	14.90
10MHz	1 RB low	711	QPSK	20.81	15.66
10MHz	1 RB mid	711	QPSK	21.45	16.30
10MHz	1 RB high	711	QPSK	20.95	15.80
10MHz	50%,low	711	QPSK	20.15	15.00
10MHz	50% RB mid	711	QPSK	20.13	14.98
10MHz	50%,high	711	QPSK	20.22	15.07
10MHz	100% RB	711	QPSK	20.21	15.06

6.4. Occupied Bandwidth

Specifications:	FCC Part 2.1049
DUT Serial Number:	IMEI:861475037109388
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	--

Test Setup

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	70.04 Hz (k=2)

Test Method

The 99% occupied Bandwidth was calculated from the spectrum analyzer. Markers in the spectrum analyzer were then placed between the calculated frequencies to show the calculated 99% power Band. The 26dB Bandwidth was also measured and recorded.

Note: --

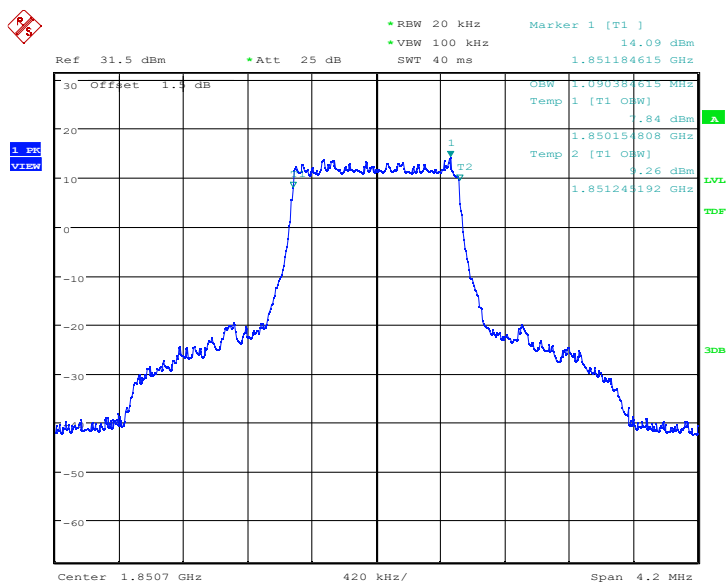
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LTE band 2,1.4MHz(99%)

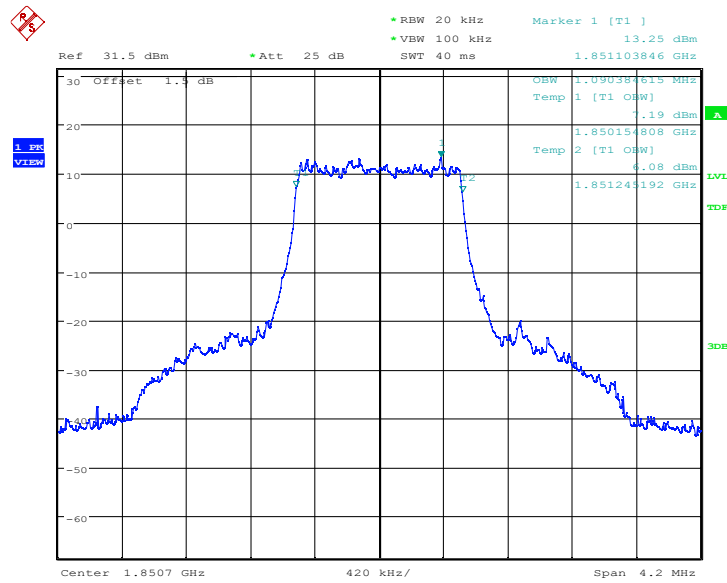
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1850.7	1.090	1.090
1880	1.090	1.097
1909.3	1.090	1.090

LTE band 2 , 1.4MHz Bandwidth,LOW,QPSK (99% BW)



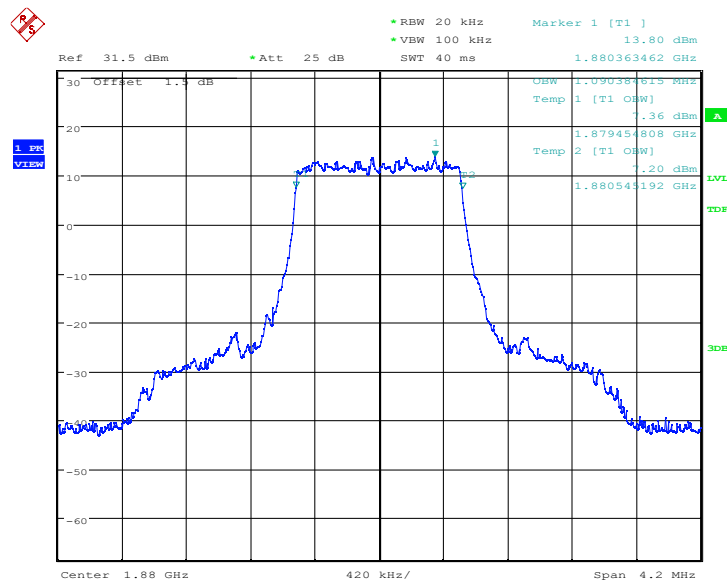
Date: 26.FEB.2023 08:17:21

LTE band 2 , 1.4MHz Bandwidth,LOW,16QAM (99% BW)



Date: 26.FEB.2023 08:17:42

LTE band 2 , 1.4MHz Bandwidth,MID,QPSK (99% BW)

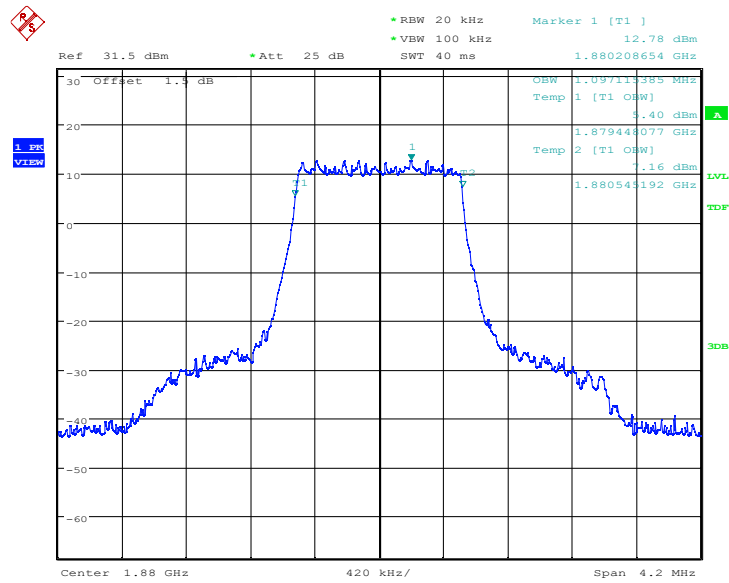


Date: 26.FEB.2023 08:18:09

LTE band 2 , 1.4MHz Bandwidth,MID,16QAM (99% BW)

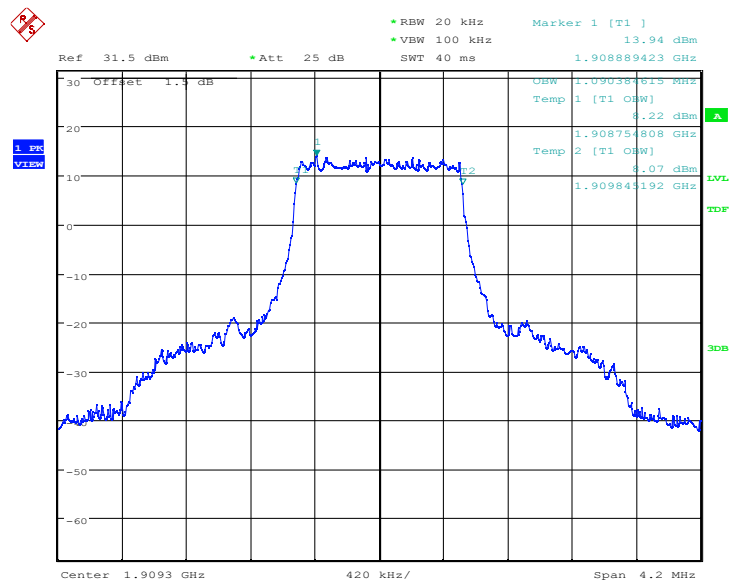
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Date: 26.FEB.2023 08:18:30

LTE band 2 , 1.4MHz Bandwidth,HIGH,QPSK (99% BW)

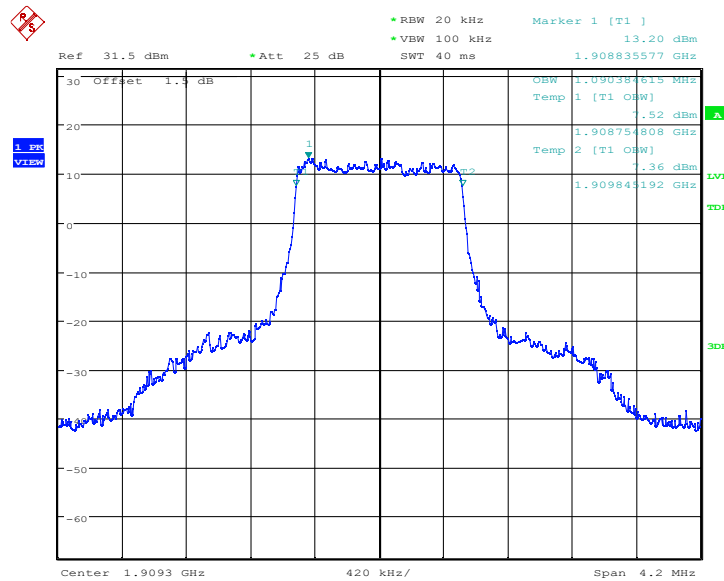


Date: 26.FEB.2023 08:23:37

LTE band 2 , 1.4MHz Bandwidth,HIGH,16QAM (99% BW)

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Date: 26.FEB.2023 08:22:02

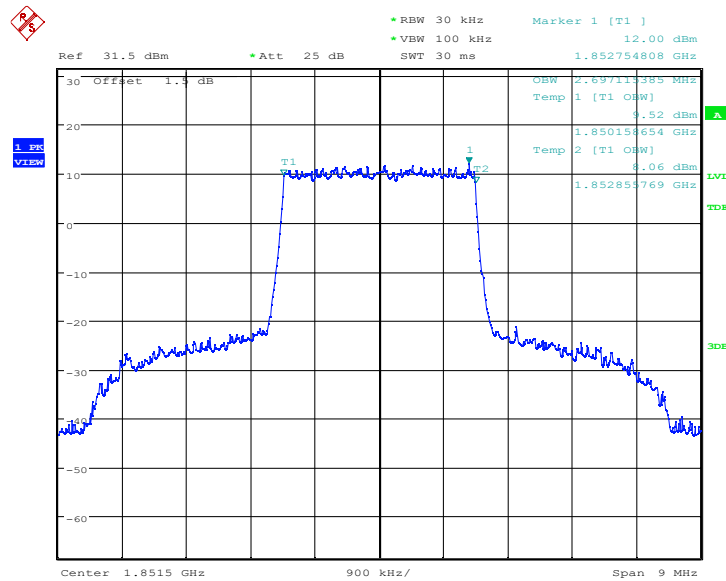
LTE band 2,3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1851.5	2.697	2.683
1880	2.697	2.697
1908.5	2.697	2.697

LTE band 2 , 3MHz Bandwidth,LOW,QPSK (99% BW)

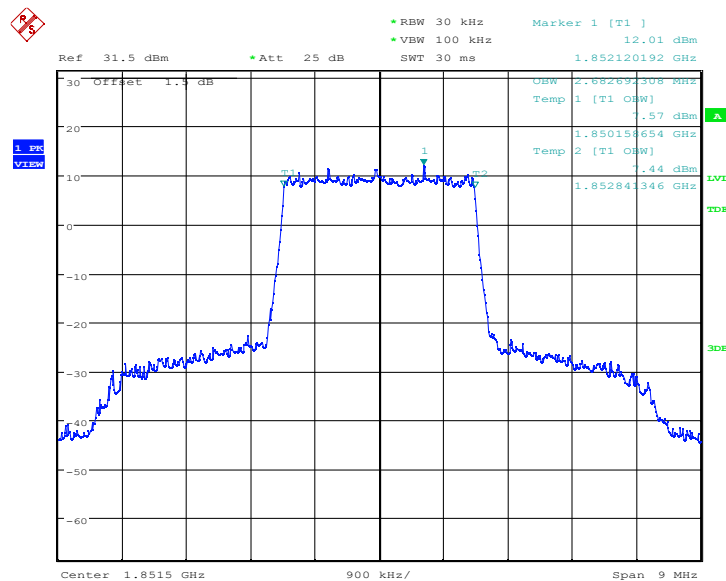
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Date: 26.FEB.2023 08:24:43

LTE band 2 , 3MHz Bandwidth,LOW,16QAM (99% BW)

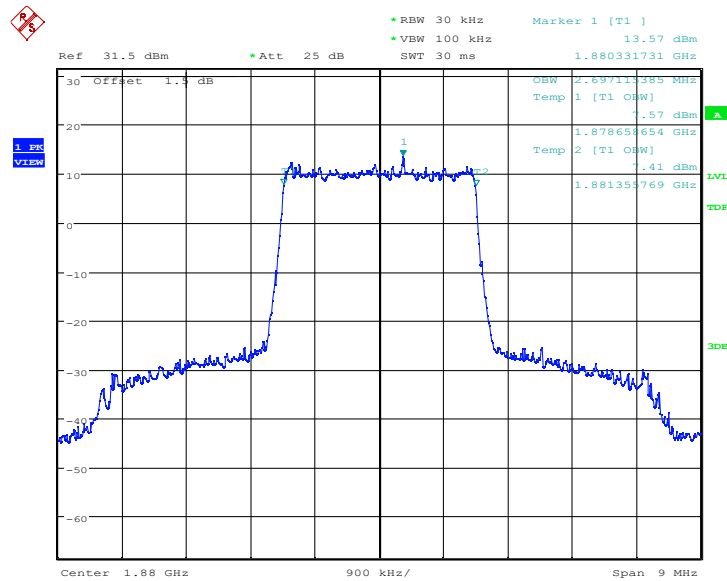


Date: 26.FEB.2023 08:25:06

LTE band 2 , 3MHz Bandwidth,MID,QPSK (99% BW)

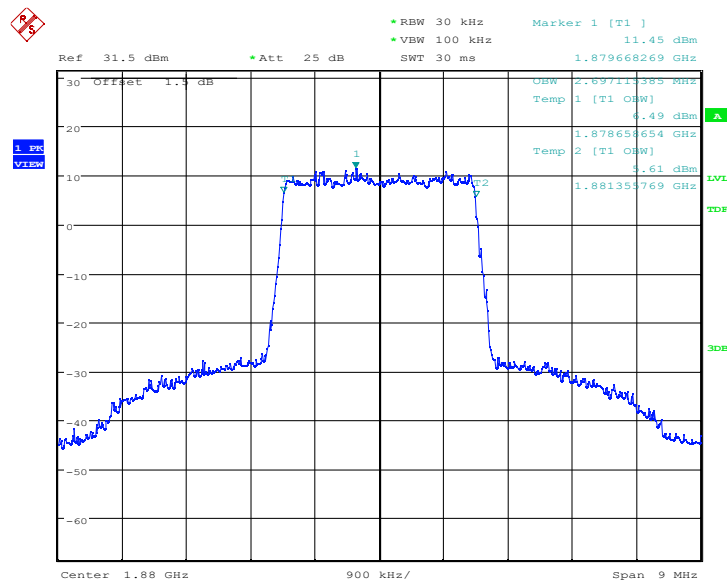
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Date: 26.FEB.2023 08:25:34

LTE band 2 , 3MHz Bandwidth,MID,16QAM (99% BW)

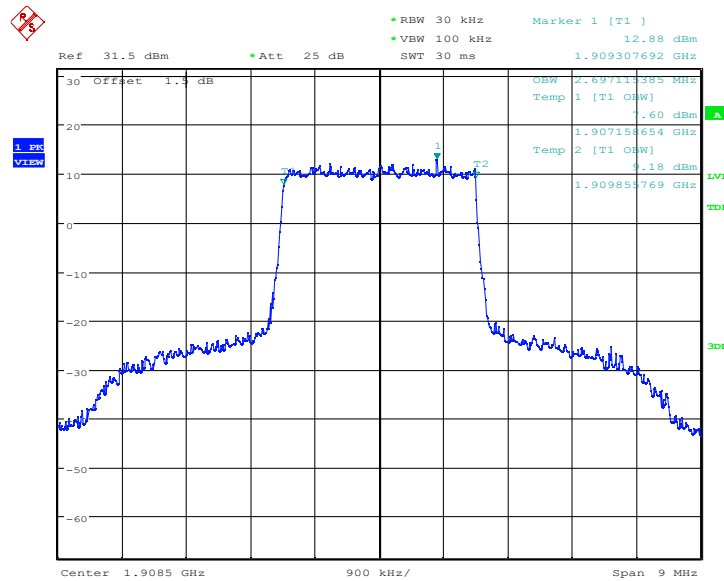


Date: 26.FEB.2023 08:25:58

LTE band 2 , 3MHz Bandwidth,HIGH,QPSK (99% BW)

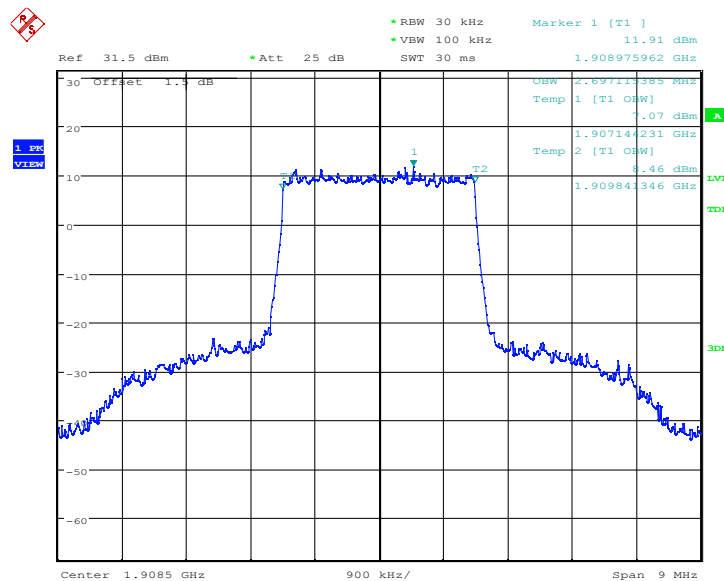
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Date: 26.FEB.2023 08:26:28

LTE band 2 , 3MHz Bandwidth,HIGH,16QAM (99% BW)



Date: 26.FEB.2023 08:26:57

LTE band 2,5MHz(99%)

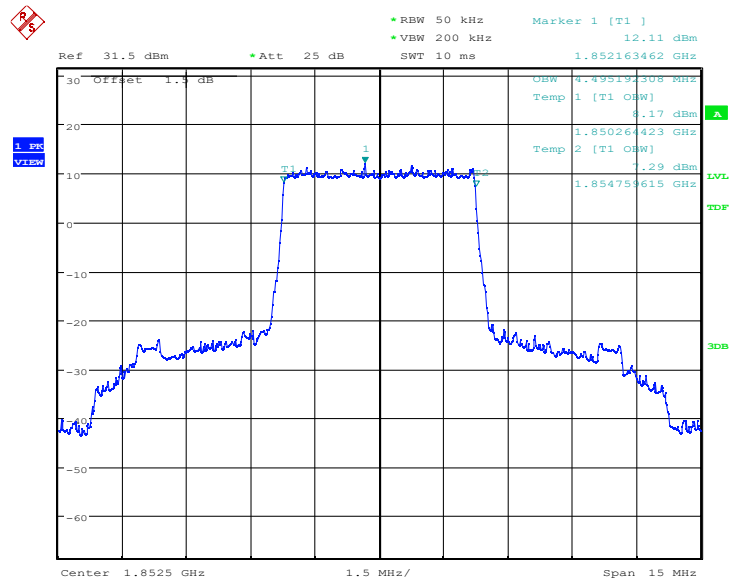
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM

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1852.5	4.495	4.495
1880	4.519	4.495
1907.5	4.495	4.495

LTE band 2 , 5MHz Bandwidth,LOW,QPSK (99% BW)

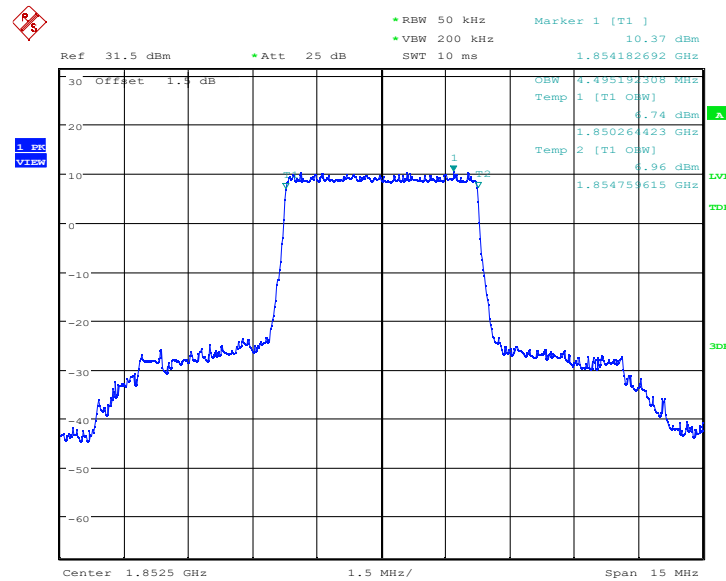


Date: 26.FEB.2023 08:28:16

LTE band 2 , 5MHz Bandwidth,LOW,16QAM (99% BW)

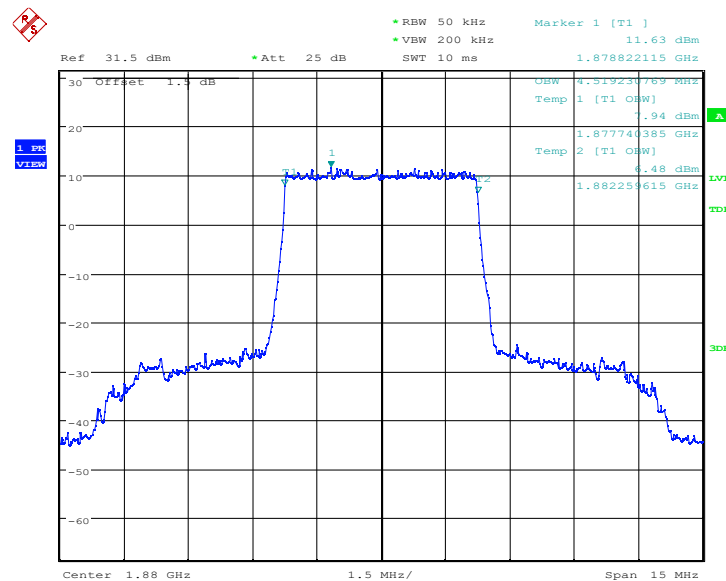
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Date: 26.FEB.2023 08:28:37

LTE band 2 , 5MHz Bandwidth,MID,QPSK (99% BW)

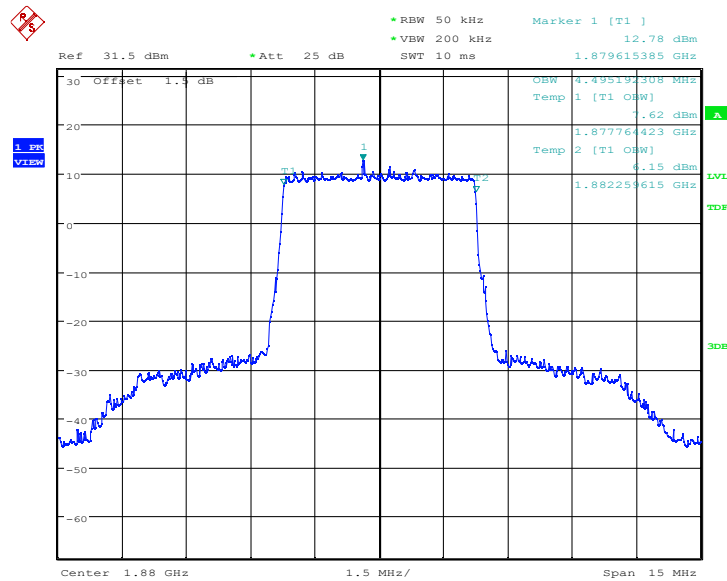


Date: 26.FEB.2023 08:29:05

LTE band 2 , 5MHz Bandwidth,MID,16QAM (99% BW)

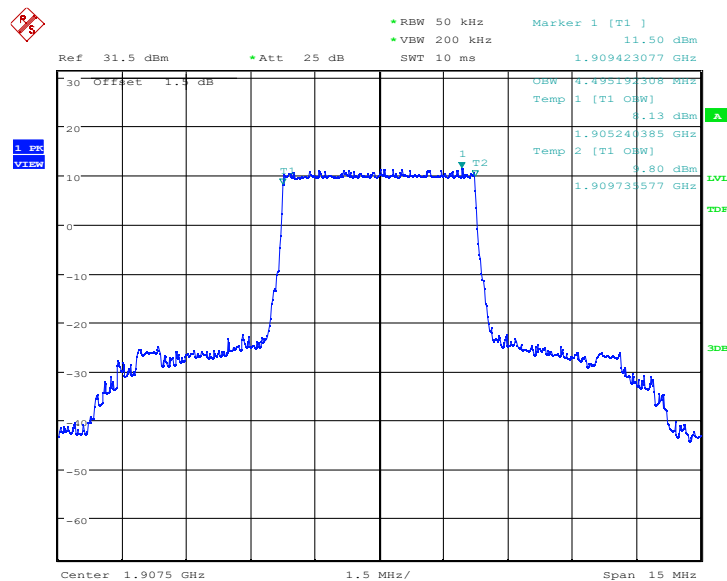
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Date: 26.FEB.2023 08:29:31

LTE band 2 , 5MHz Bandwidth,HIGH,QPSK (99% BW)

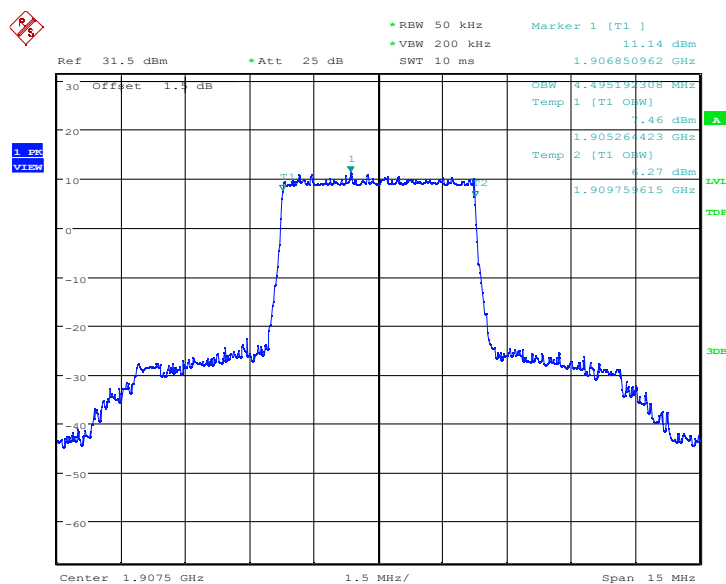


Date: 26.FEB.2023 08:30:01

LTE band 2 , 5MHz Bandwidth,HIGH,16QAM (99% BW)

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Date: 26.FEB.2023 08:30:26

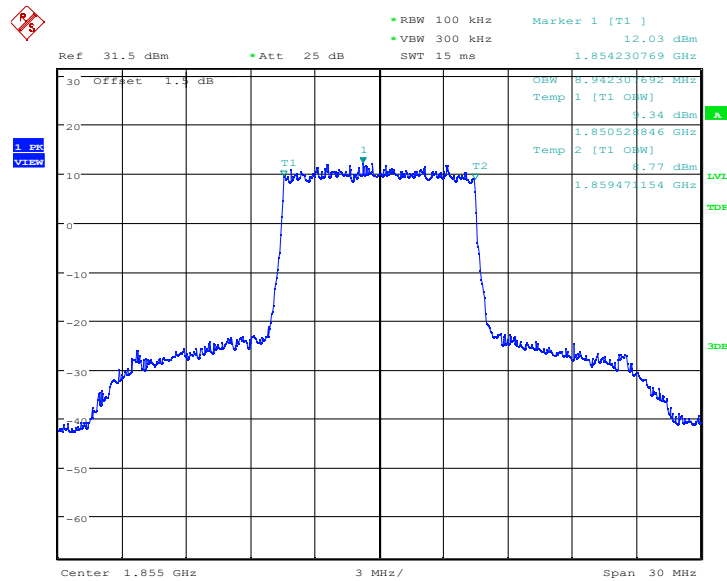
LTE band 2,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
	QPSK
1855	8.942
1880	8.942
1905	8.942

LTE band 2 , 10MHz Bandwidth,LOW,QPSK (99% BW)

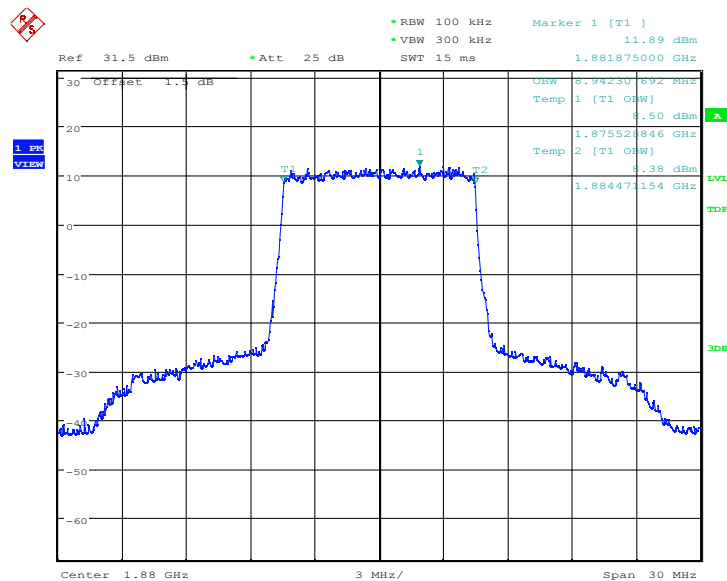
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Date: 26.FEB.2023 08:32:02

LTE band 2 , 10MHz Bandwidth,MID,QPSK (99% BW)



Date: 26.FEB.2023 08:32:29

LTE band 2 , 10MHz Bandwidth,HIGH,QPSK (99% BW)

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Ref 31.5 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 15 ms Marker 1 (T1) 1.921 GHz 1.21 dBm

Offset 1.5 dB

1 dB VSWR

30

20

10

0

-10

-20

-30

-40

-50

-60

Center 1.905 GHz 3 MHz/ Span 30 MHz

OBW 8.94230192 MHz

Temp 1 (T1 OBW) 1.97 dBm

Temp 2 (T1 OBW) 1.9052846 GHz 1.68 dBm

1.90947154 GHz

T1

T2

1

2

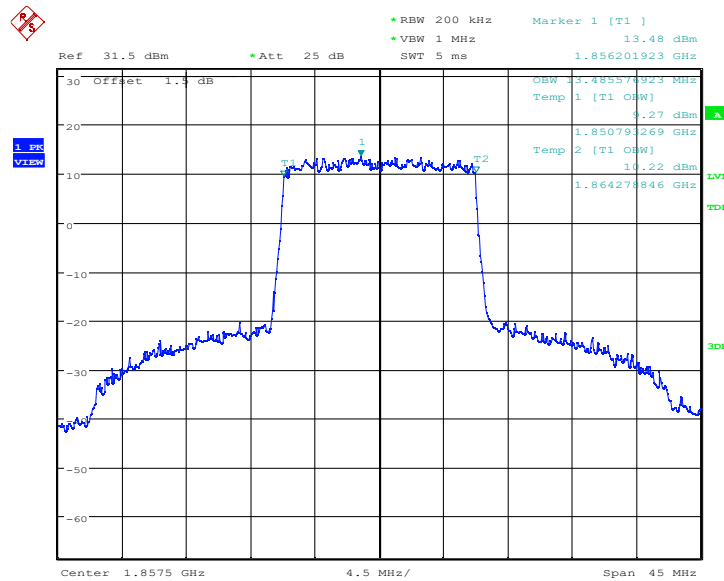
LVL

TDF

30B

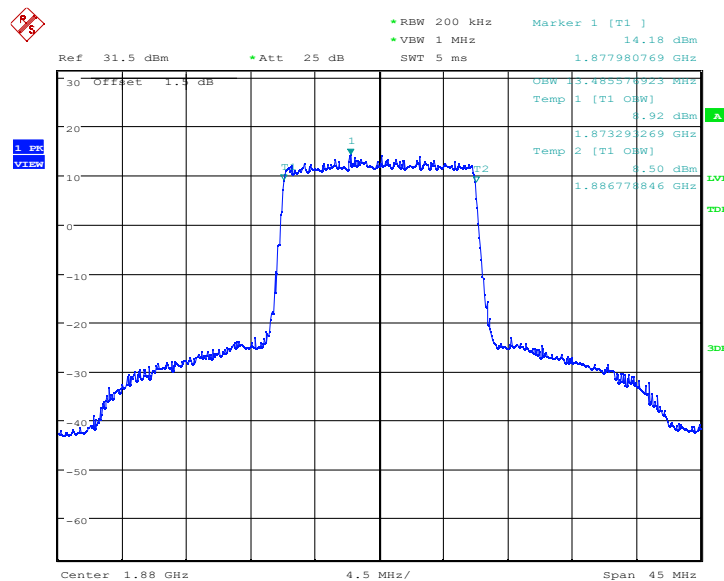
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
	QPSK
1857.5	13.486
1880	13.486
1902.5	13.486

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Date: 26.FEB.2023 08:34:54

LTE band 2 , 15MHz Bandwidth,MID,QPSK (99% BW)

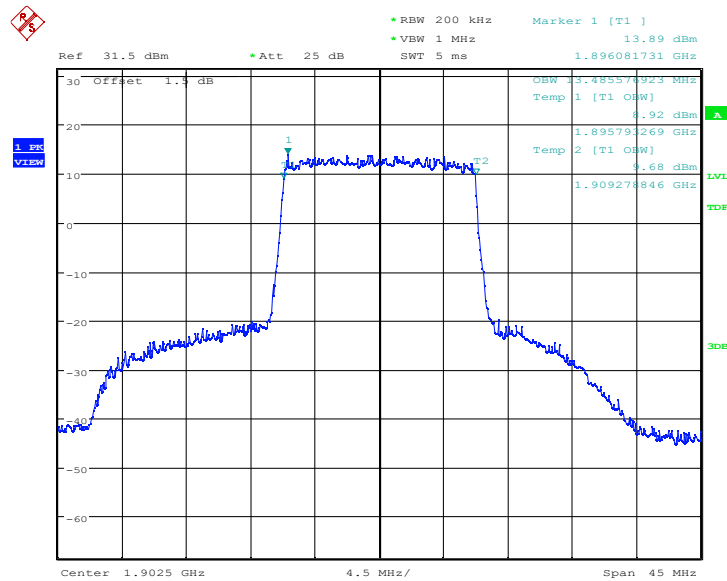


Date: 26.FEB.2023 08:35:20

LTE band 2 , 15MHz Bandwidth,HIGH,QPSK (99% BW)

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Date: 26.FEB.2023 08:35:48

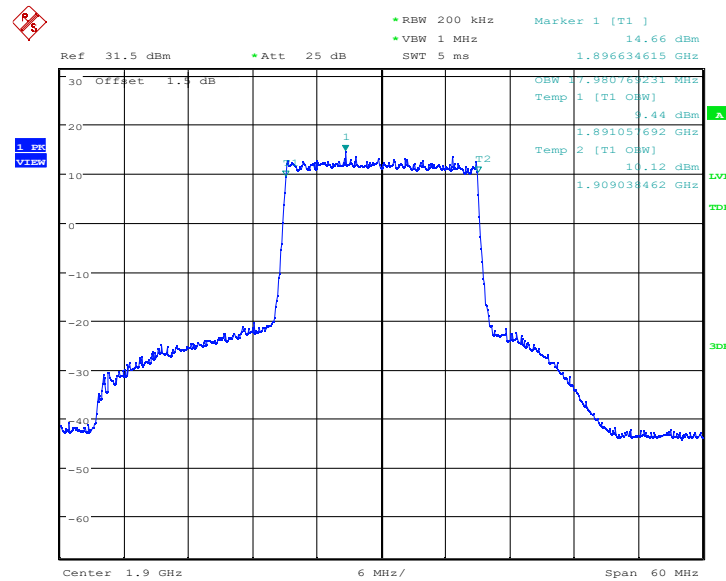
LTE band 2,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
	QPSK
1860	17.981
1880	17.885
1900	17.981

LTE band 2 , 20MHz Bandwidth,LOW,QPSK (99% BW)



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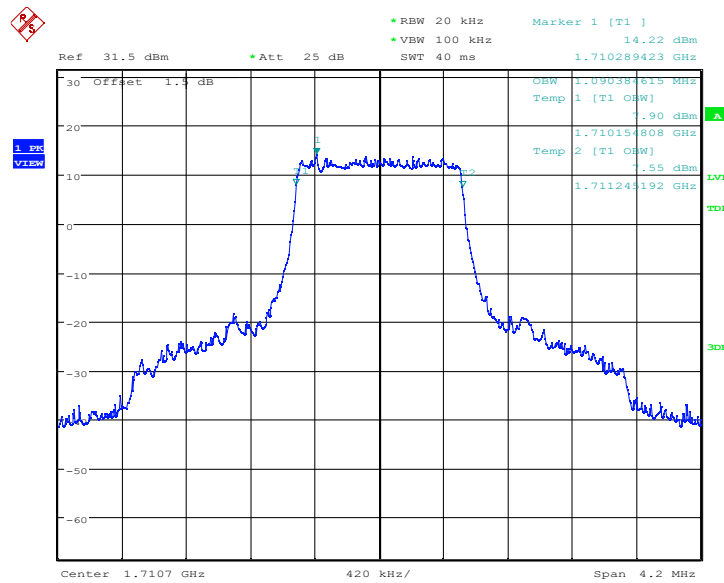


Date: 26.FEB.2023 08:38:48

LTE band 4,1.4MHz(99%)

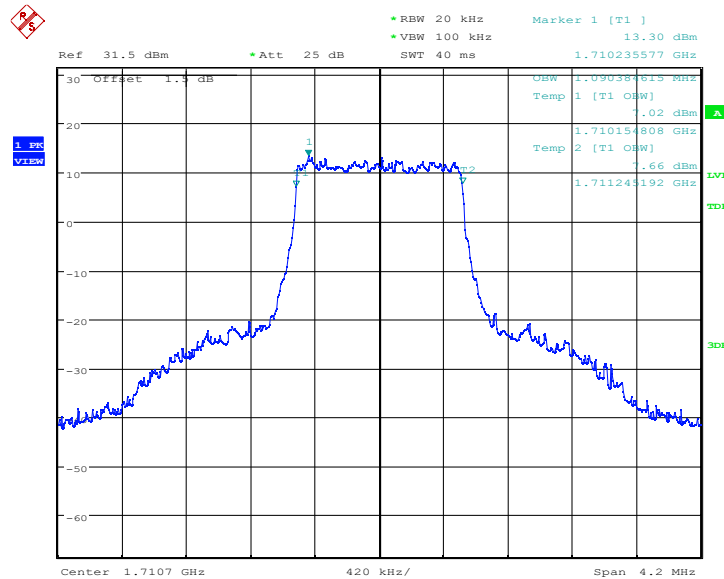
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1710.7	1.090	1.090
1732.5	1.097	1.090
1754.3	1.090	1.097

LTE band 4 , 1.4MHz Bandwidth,LOW,QPSK (99% BW)



Date: 26.FEB.2023 08:39:27

LTE band 4 , 1.4MHz Bandwidth,LOW,16QAM (99% BW)

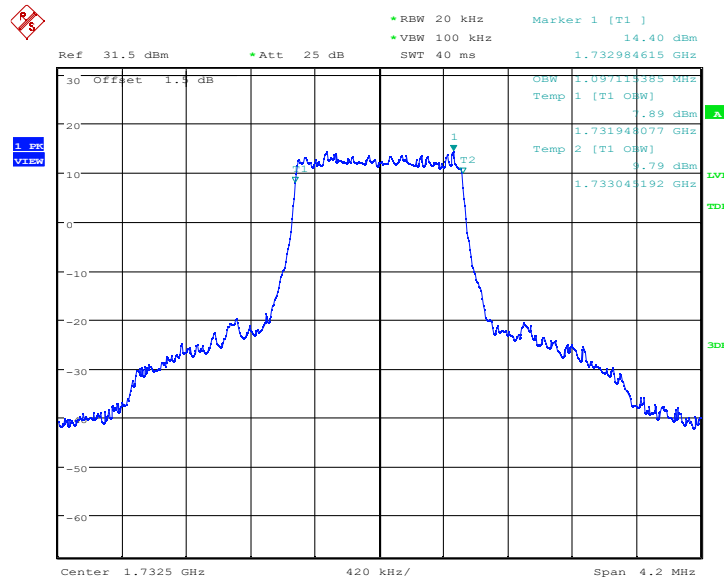


Date: 26.FEB.2023 08:39:55

LTE band 4 , 1.4MHz Bandwidth,MID,QPSK (99% BW)

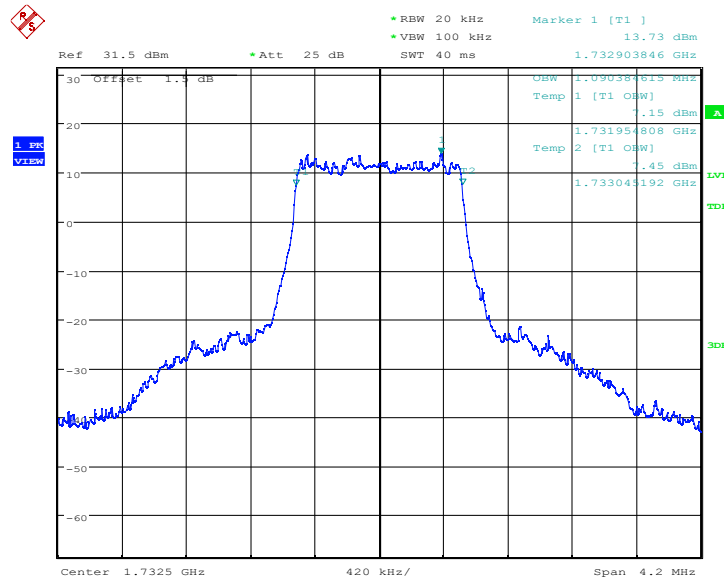
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Date: 26.FEB.2023 08:40:21

LTE band 4 , 1.4MHz Bandwidth,MID,16QAM (99% BW)

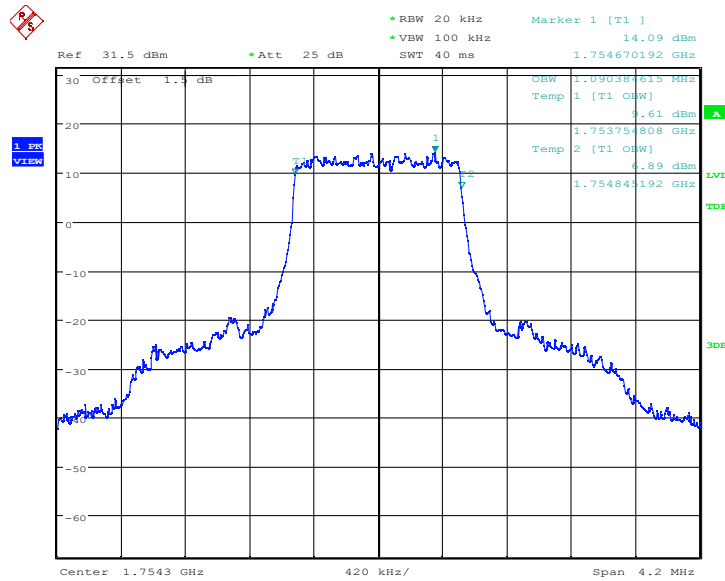


Date: 26.FEB.2023 08:40:44

LTE band 4 , 1.4MHz Bandwidth,HIGH,QPSK (99% BW)

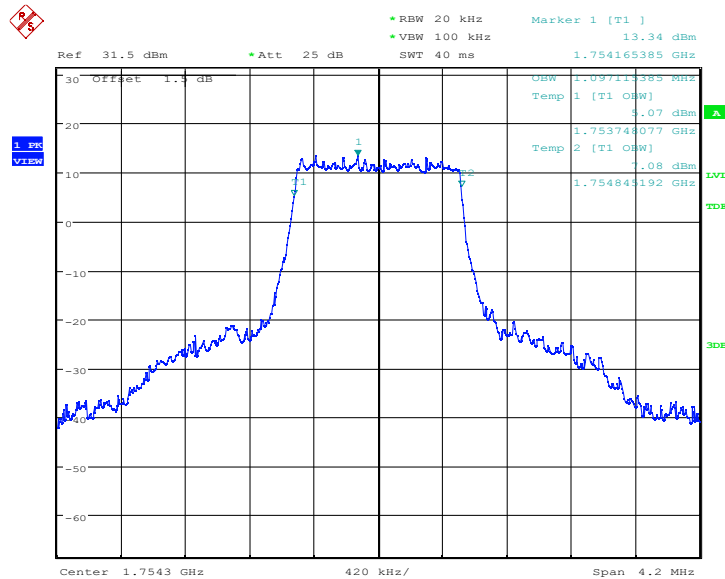
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Date: 26.FEB.2023 08:41:18

LTE band 4 , 1.4MHz Bandwidth,HIGH,16QAM (99% BW)



Date: 26.FEB.2023 08:41:45

LTE band 4,3MHz(99%)

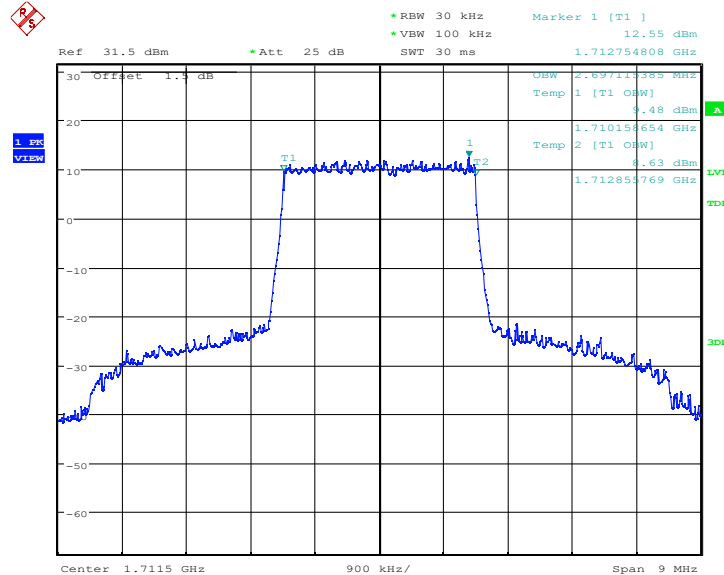
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM

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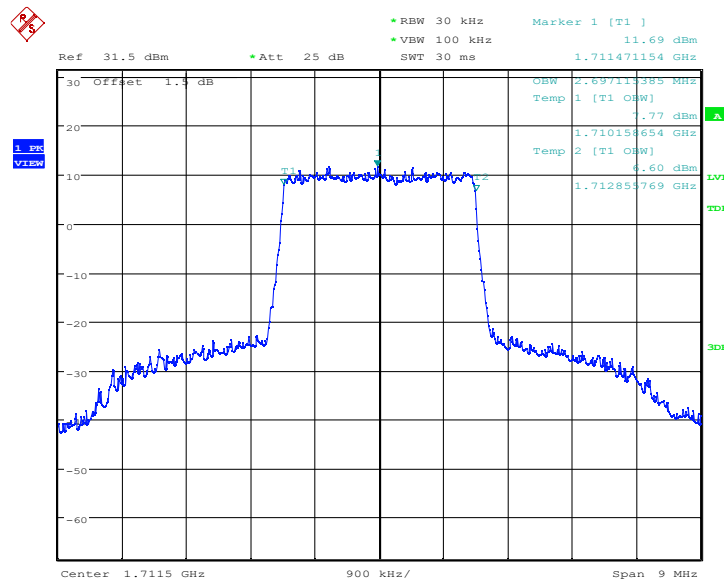
1711.5	2.697	2.697
1732.5	2.697	2.697
1753.5	2.697	2.683

LTE band 4 , 3MHz Bandwidth,LOW,QPSK (99% BW)



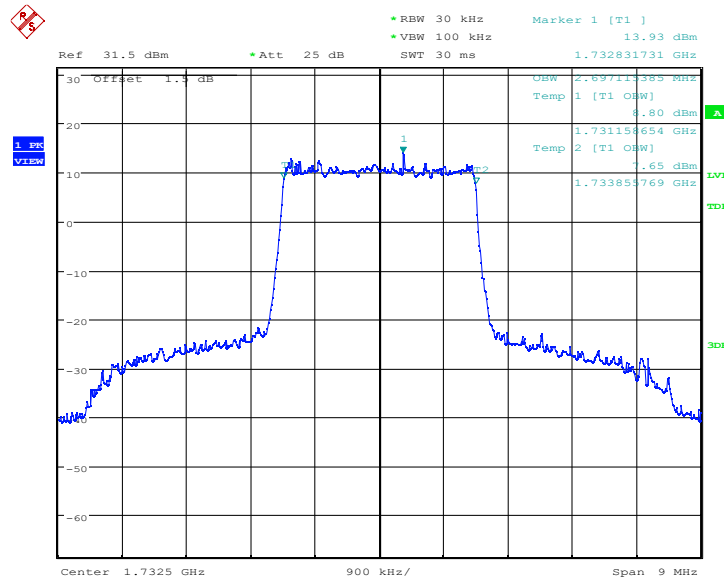
Date: 26.FEB.2023 08:42:53

LTE band 4 , 3MHz Bandwidth,LOW,16QAM (99% BW)



Date: 26.FEB.2023 08:43:18

LTE band 4 , 3MHz Bandwidth,MID,QPSK (99% BW)

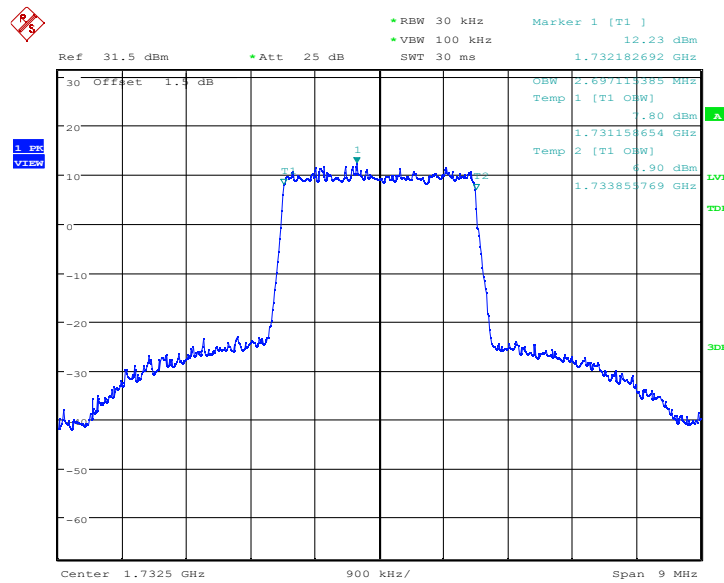


Date: 26.FEB.2023 08:43:45

LTE band 4 , 3MHz Bandwidth,MID,16QAM (99% BW)

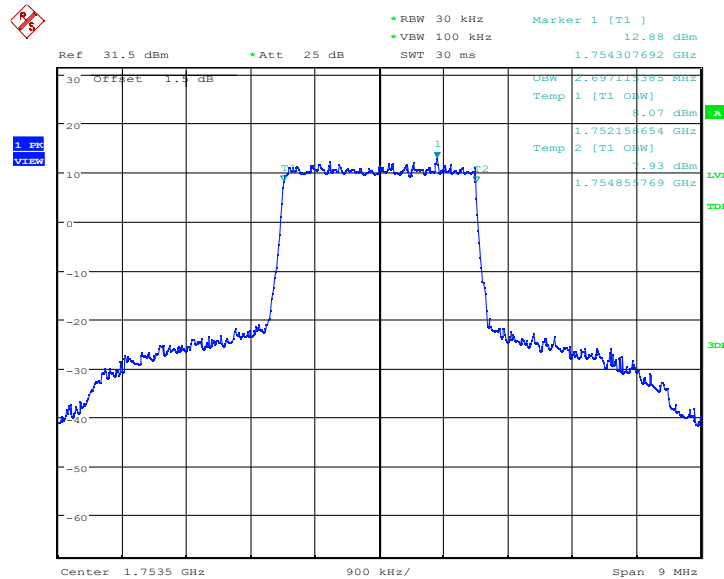
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Date: 26.FEB.2023 08:44:09

LTE band 4 , 3MHz Bandwidth,HIGH,QPSK (99% BW)

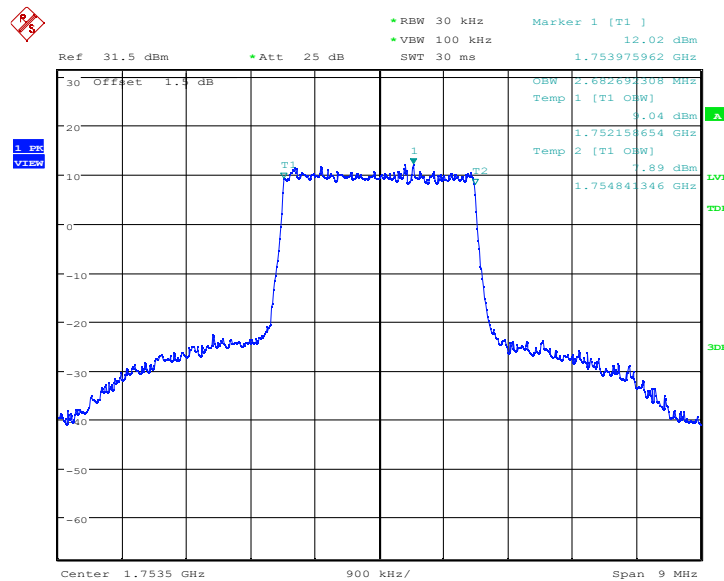


Date: 26.FEB.2023 08:44:35

LTE band 4 , 3MHz Bandwidth,HIGH,16QAM (99% BW)

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Date: 26.FEB.2023 08:44:59

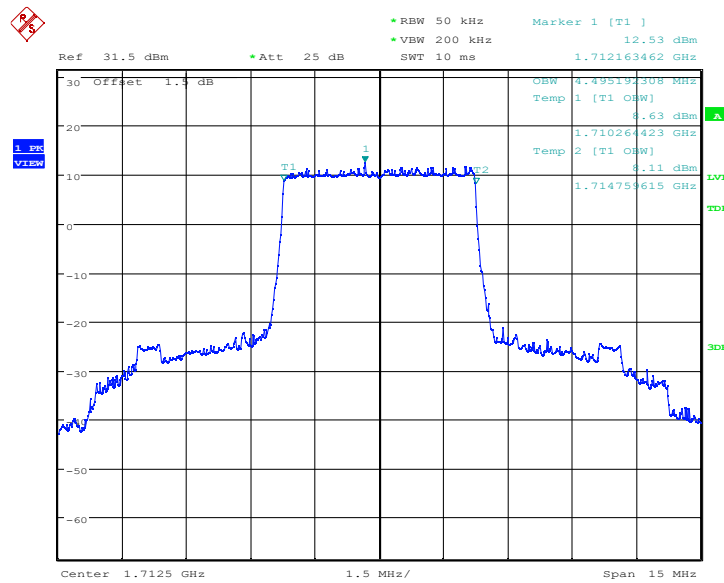
LTE band 4,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1712.5	4.495	4.495
1732.5	4.495	4.471
1752.5	4.495	4.495

LTE band 4 , 5MHz Bandwidth,LOW,QPSK (99% BW)

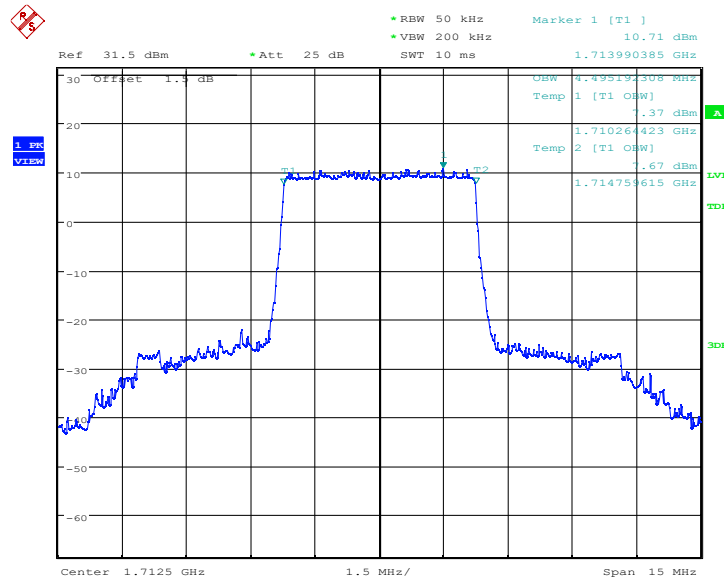
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Date: 26.FEB.2023 08:46:07

LTE band 4 , 5MHz Bandwidth,LOW,16QAM (99% BW)

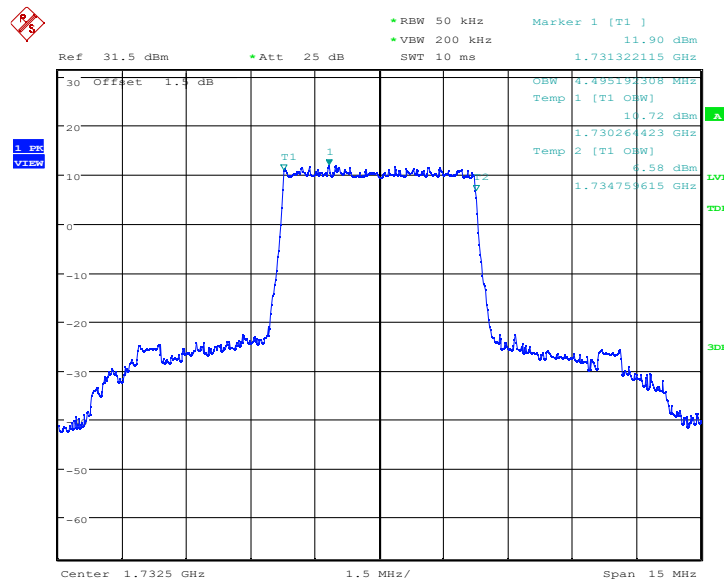


Date: 26.FEB.2023 08:46:35

LTE band 4 , 5MHz Bandwidth,MID,QPSK (99% BW)

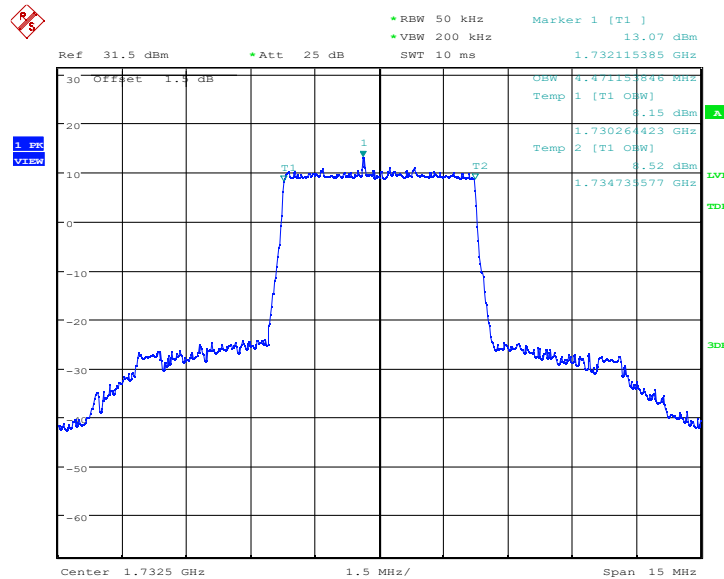
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Date: 26.FEB.2023 08:47:01

LTE band 4 , 5MHz Bandwidth,MID,16QAM (99% BW)

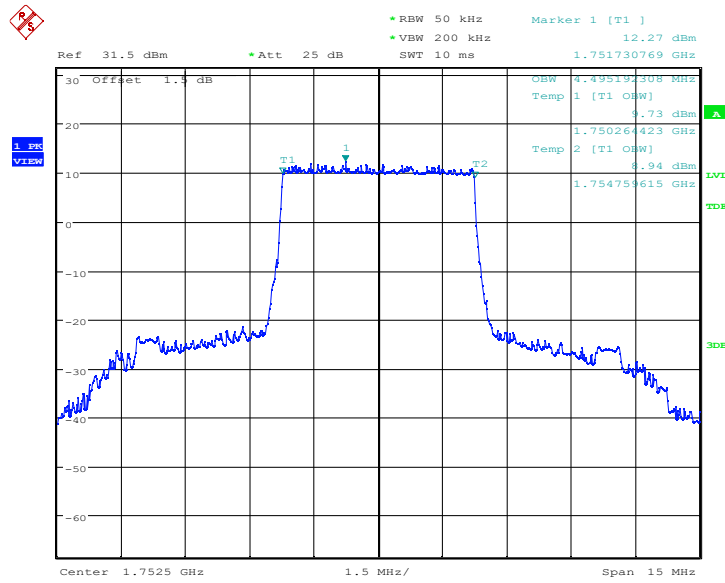


Date: 26.FEB.2023 08:47:22

LTE band 4 , 5MHz Bandwidth,HIGH,QPSK (99% BW)

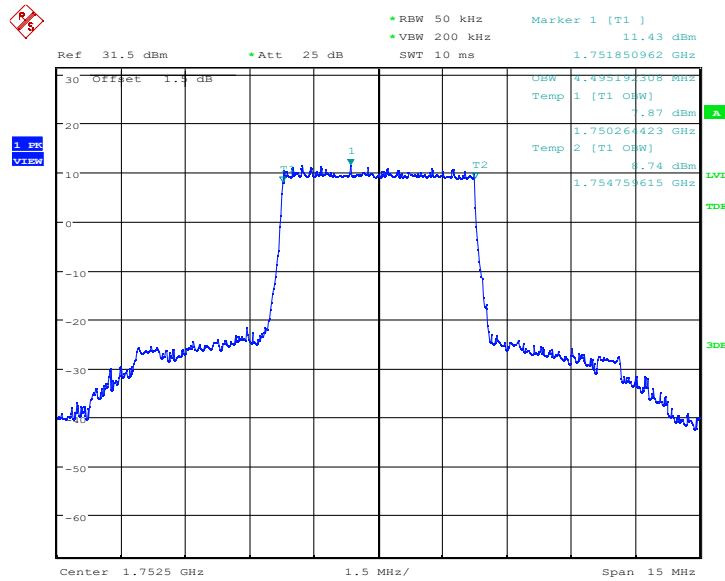
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Date: 26.FEB.2023 08:47:47

LTE band 4 , 5MHz Bandwidth,HIGH,16QAM (99% BW)



Date: 26.FEB.2023 08:48:08

LTE band 4,10MHz(99%)

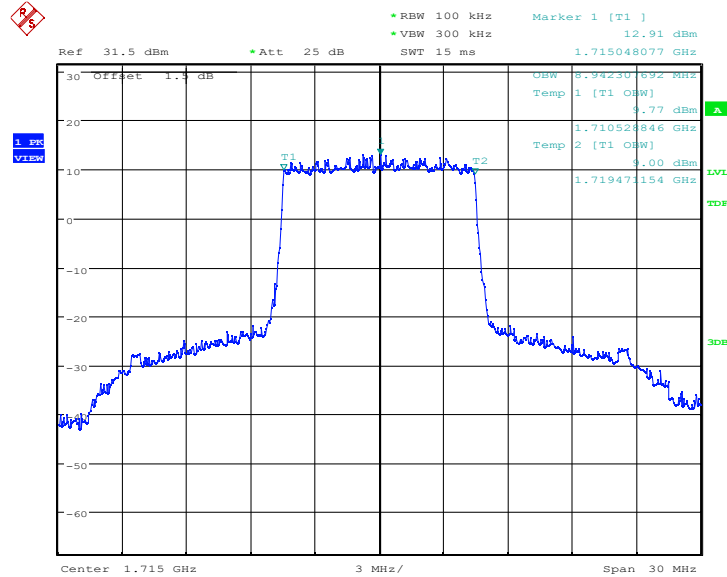
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
	QPSK

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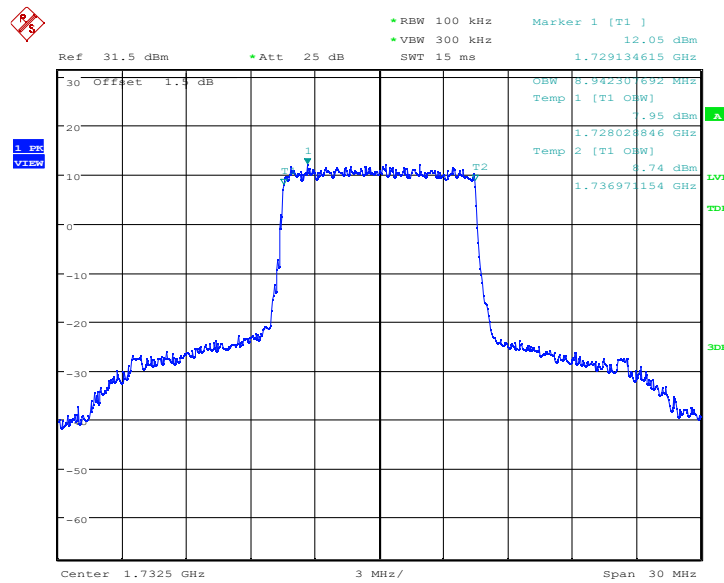
1715	8.942
1732.5	8.942
1750	8.942

LTE band 4 , 10MHz Bandwidth,LOW,QPSK (99% BW)



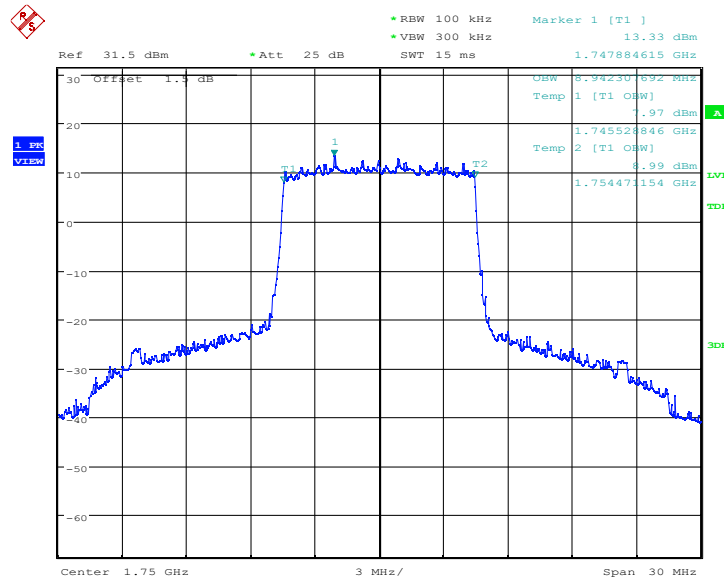
Date: 26.FEB.2023 08:49:44

LTE band 4 , 10MHz Bandwidth,MID,QPSK (99% BW)



Date: 26.FEB.2023 08:50:10

LTE band 4 , 10MHz Bandwidth,HIGH,QPSK (99% BW)



Date: 26.FEB.2023 08:50:40

LTE band 4,15MHz(99%)

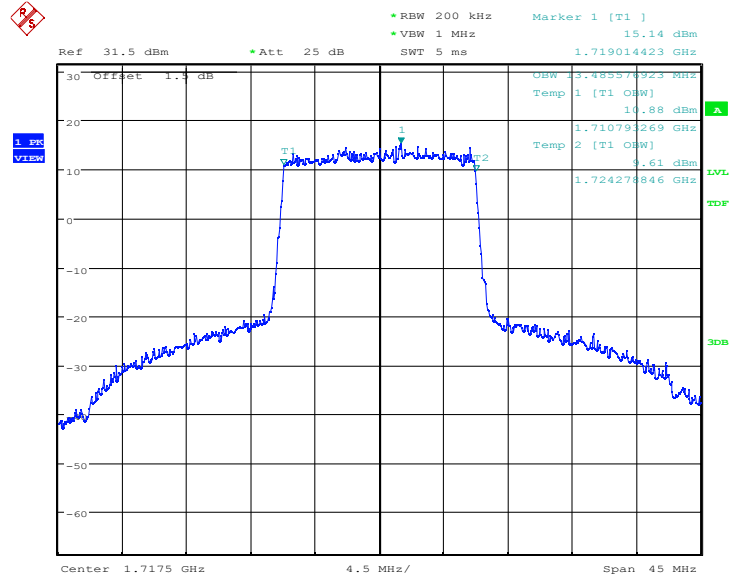
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
	QPSK

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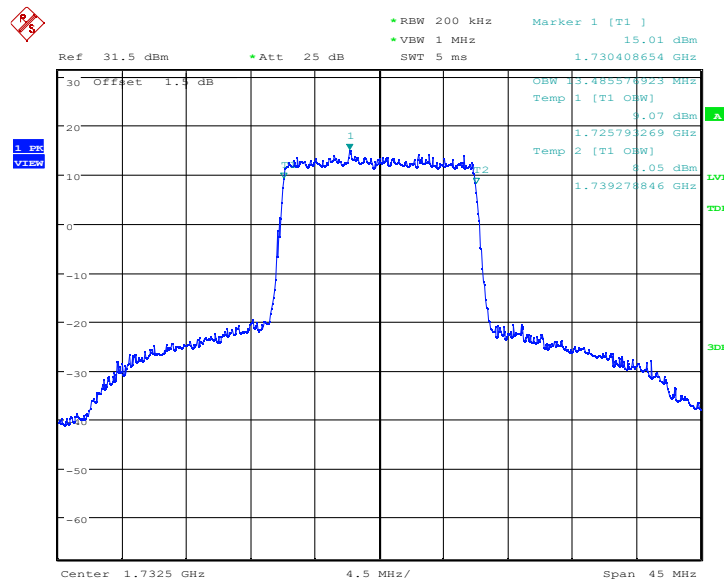
1717.5	13.486
1732.5	13.486
1747.5	13.413

LTE band 4 , 15MHz Bandwidth,LOW,QPSK (99% BW)



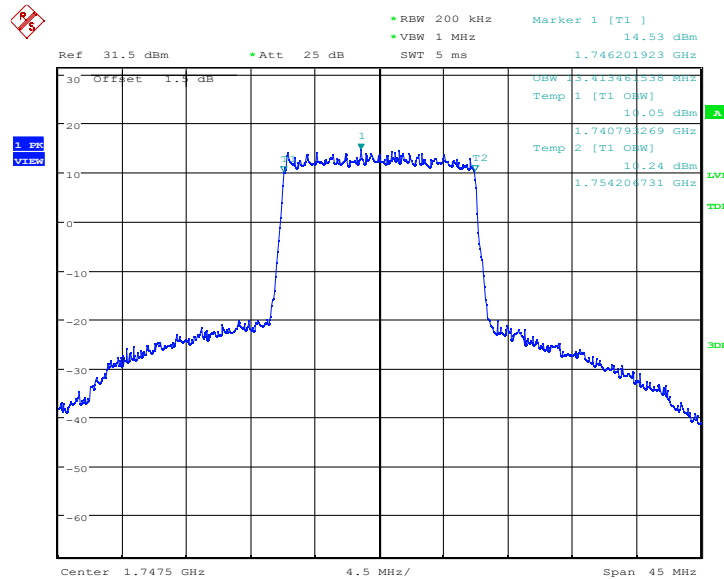
Date: 26.FEB.2023 08:52:21

LTE band 4 , 15MHz Bandwidth,MID,QPSK (99% BW)



Date: 26.FEB.2023 08:52:46

LTE band 4 , 15MHz Bandwidth,HIGH,QPSK (99% BW)



Date: 26.FEB.2023 08:53:12

LTE band 4,20MHz(99%)

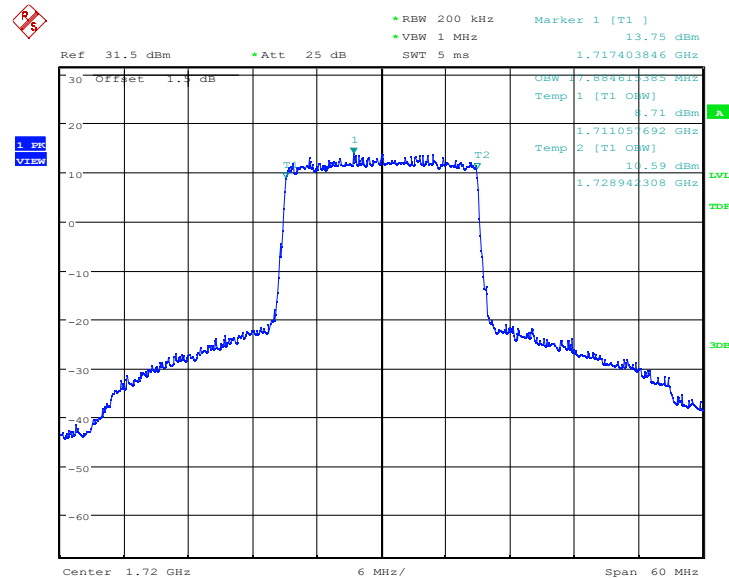
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
	QPSK

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1720	17.885
1732.5	17.981
1745	17.885

LTE band 4 , 20MHz Bandwidth,LOW,QPSK (99% BW)

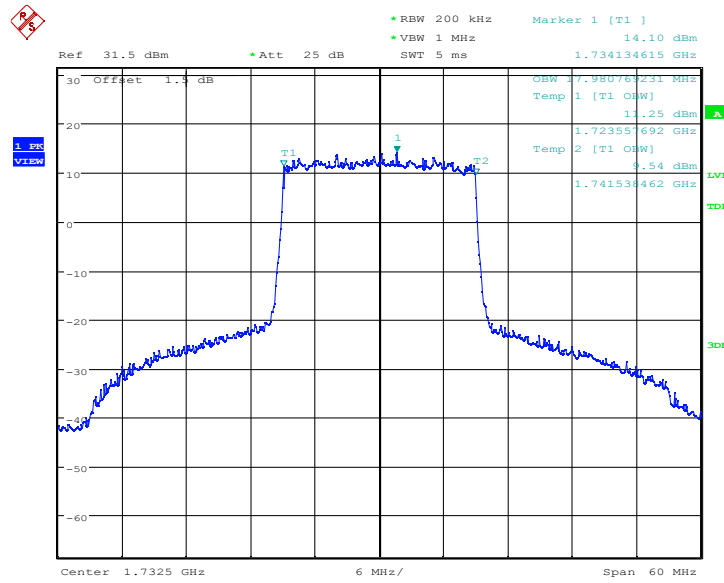


Date: 26.FEB.2023 08:55:07

LTE band 4 , 20MHz Bandwidth,MID,QPSK (99% BW)

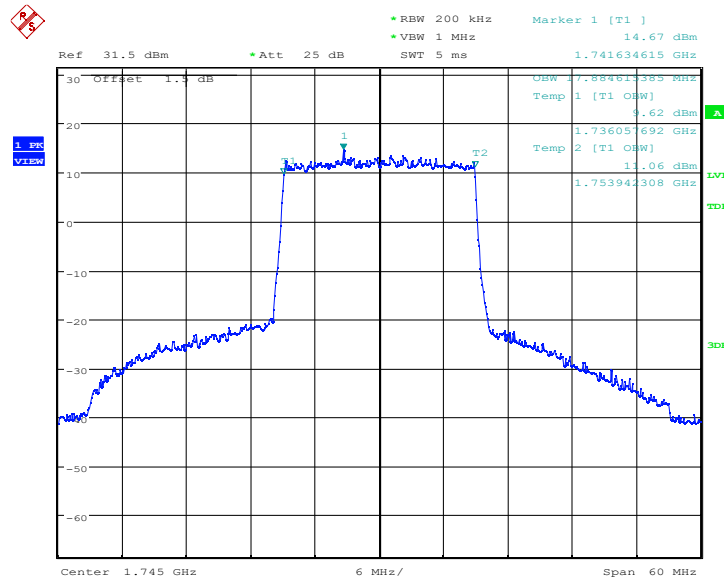
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Date: 26.FEB.2023 08:55:33

LTE band 4 , 20MHz Bandwidth,HIGH,QPSK (99% BW)



Date: 26.FEB.2023 08:56:31

LTE band 12,1.4MHz(99%)

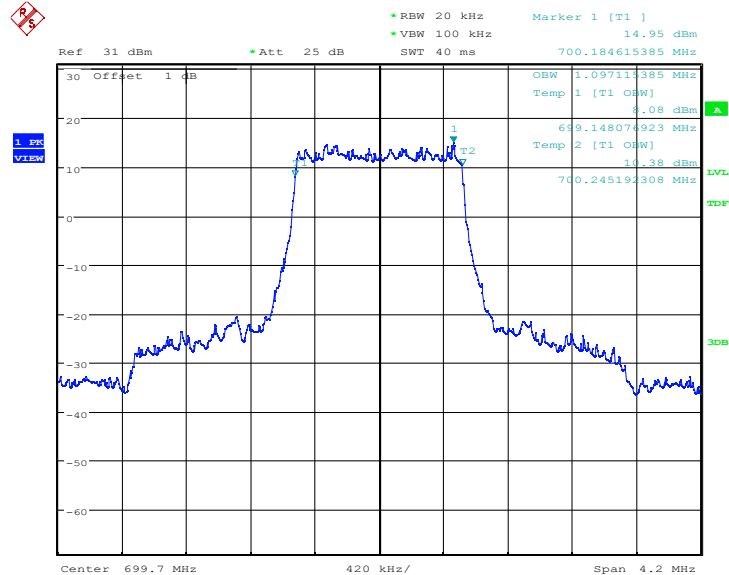
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM

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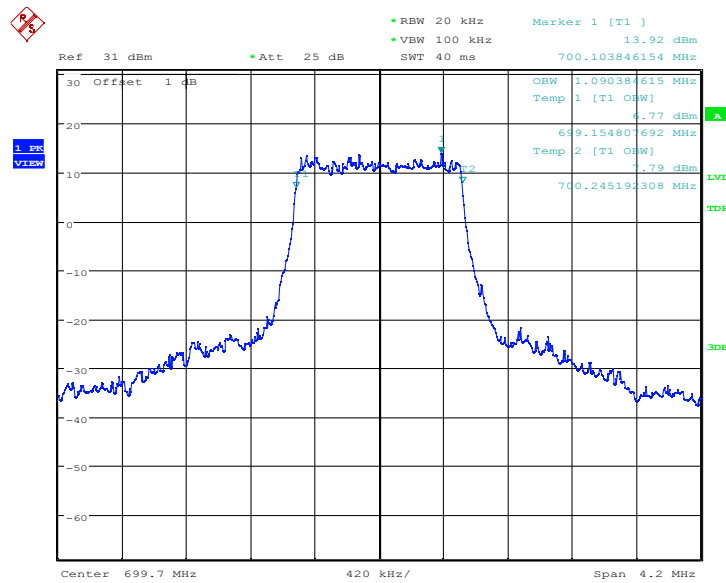
699.7	1.097	1.090
707.5	1.090	1.097
715.3	1.097	1.090

LTE band 12 , 1.4MHz Bandwidth,LOW,QPSK (99% BW)



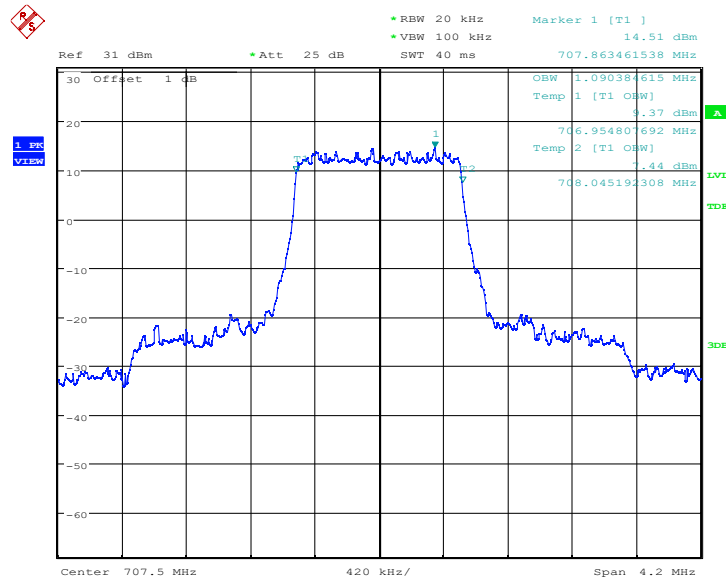
Date: 26.FEB.2023 08:57:39

LTE band 12 , 1.4MHz Bandwidth,LOW,16QAM (99% BW)



Date: 26.FEB.2023 08:58:01

LTE band 12 , 1.4MHz Bandwidth,MID,QPSK (99% BW)

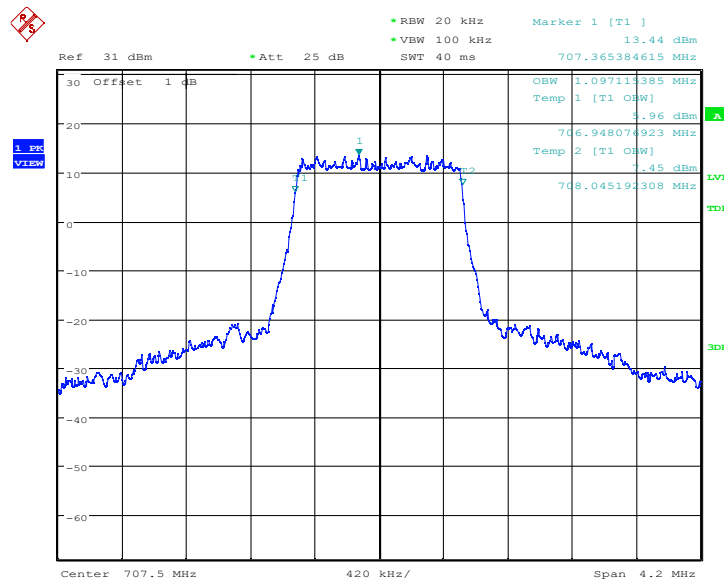


Date: 26.FEB.2023 08:58:27

LTE band 12 , 1.4MHz Bandwidth,MID,16QAM (99% BW)

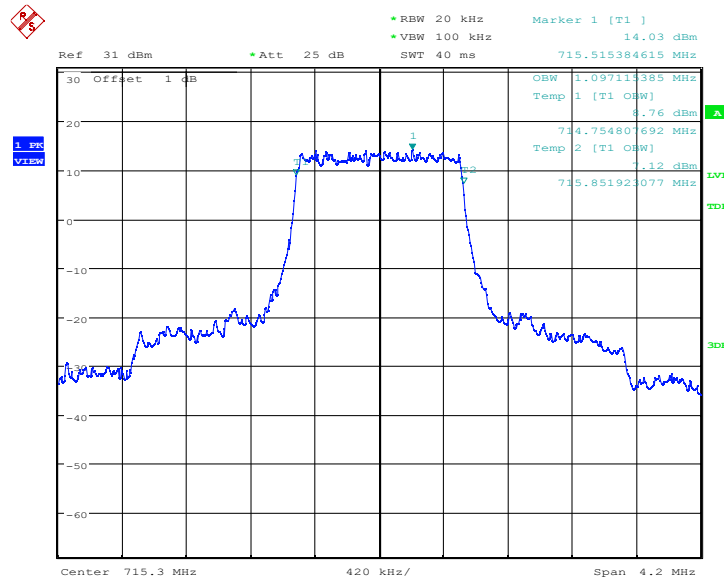
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Date: 26.FEB.2023 08:58:51

LTE band 12 , 1.4MHz Bandwidth,HIGH,QPSK (99% BW)

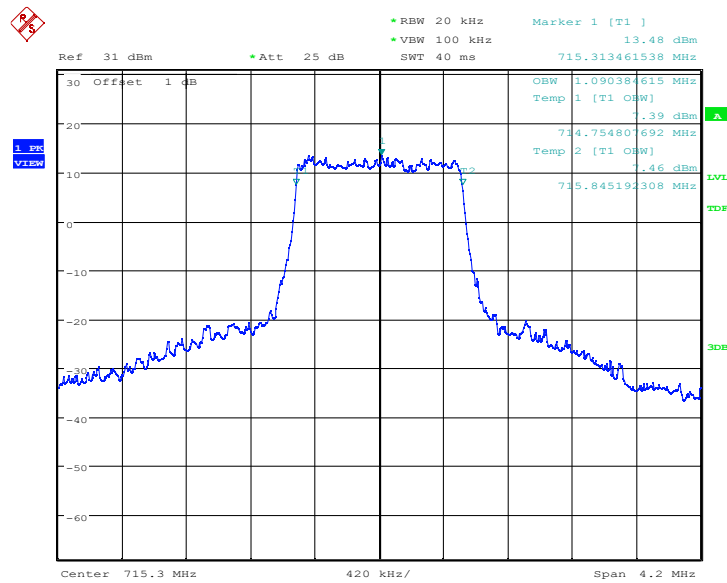


Date: 26.FEB.2023 08:59:19

LTE band 12 , 1.4MHz Bandwidth,HIGH,16QAM (99% BW)

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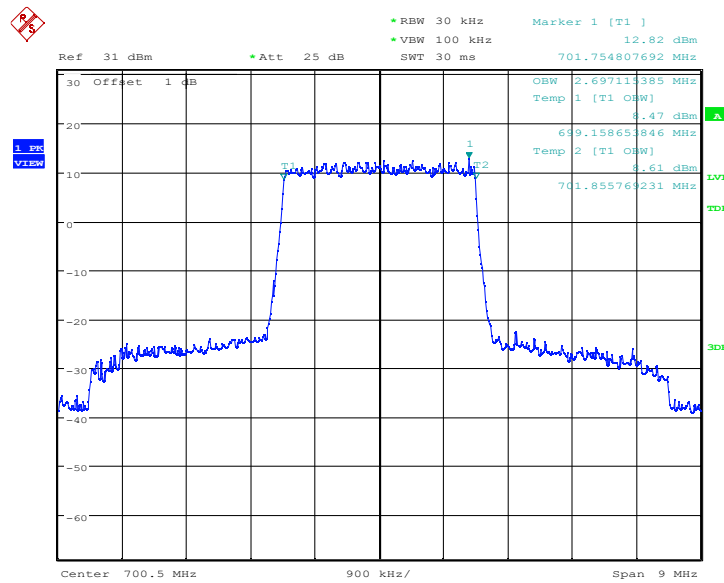


Date: 26.FEB.2023 08:59:40

LTE band 12,3MHz(99%)

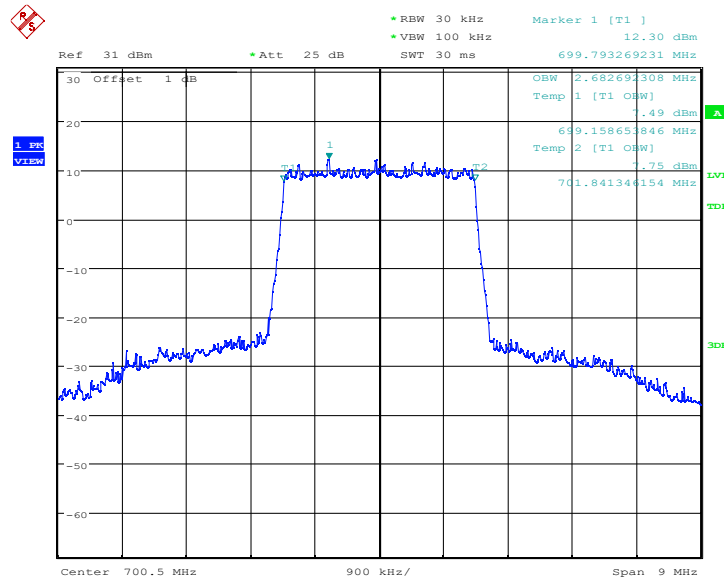
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
700.5	2.697	2.683
707.5	2.697	2.697
714.5	2.697	2.697

LTE band 12 , 3MHz Bandwidth,LOW,QPSK (99% BW)



Date: 26.FEB.2023 09:00:51

LTE band 12 , 3MHz Bandwidth,LOW,16QAM (99% BW)

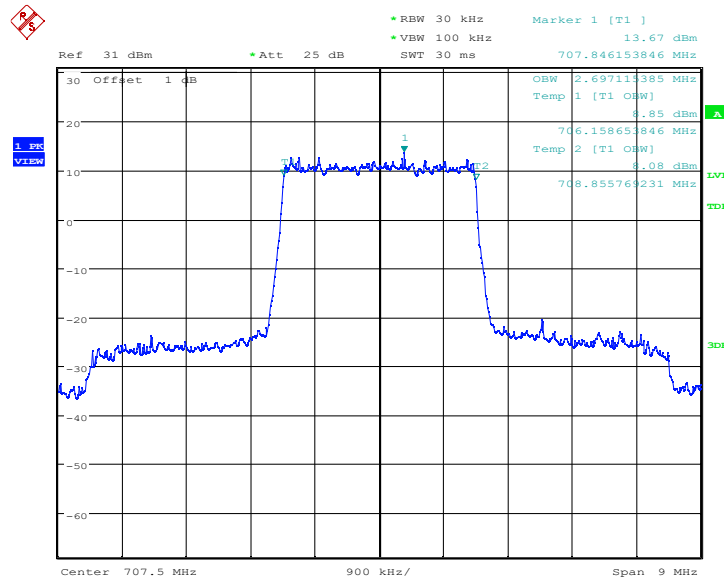


Date: 26.FEB.2023 09:01:14

LTE band 12 , 3MHz Bandwidth,MID,QPSK (99% BW)

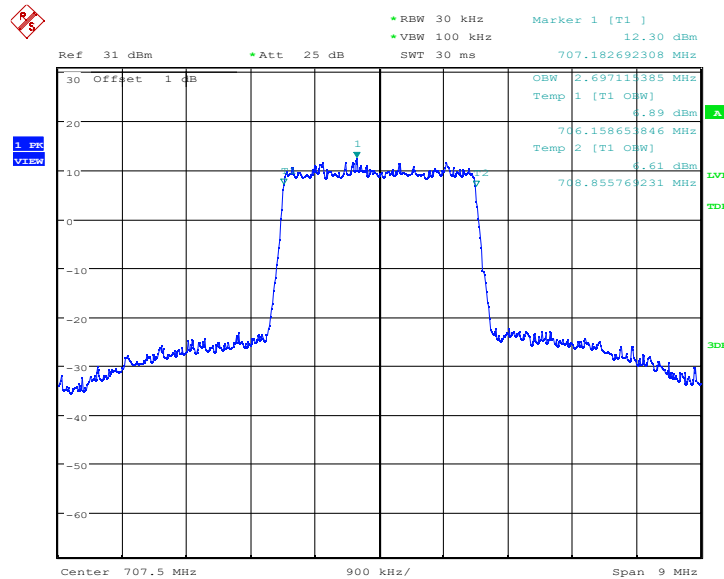
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Date: 26.FEB.2023 09:01:42

LTE band 12 , 3MHz Bandwidth,MID,16QAM (99% BW)

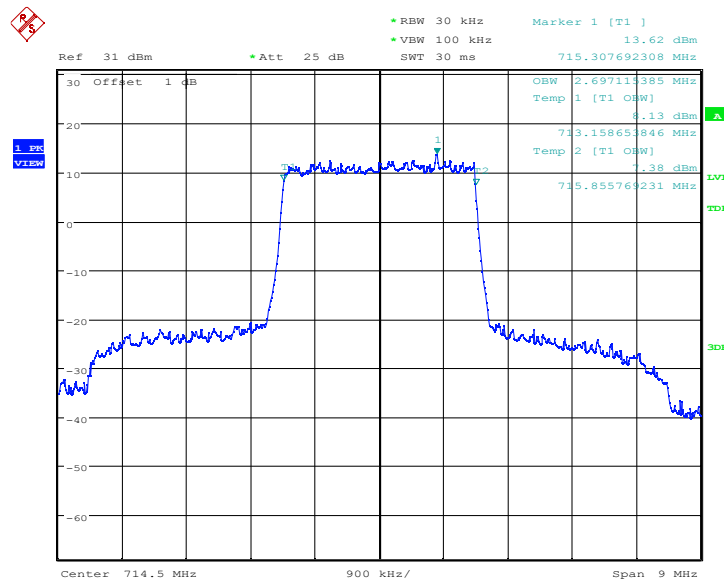


Date: 26.FEB.2023 09:02:03

LTE band 12 , 3MHz Bandwidth,HIGH,QPSK (99% BW)

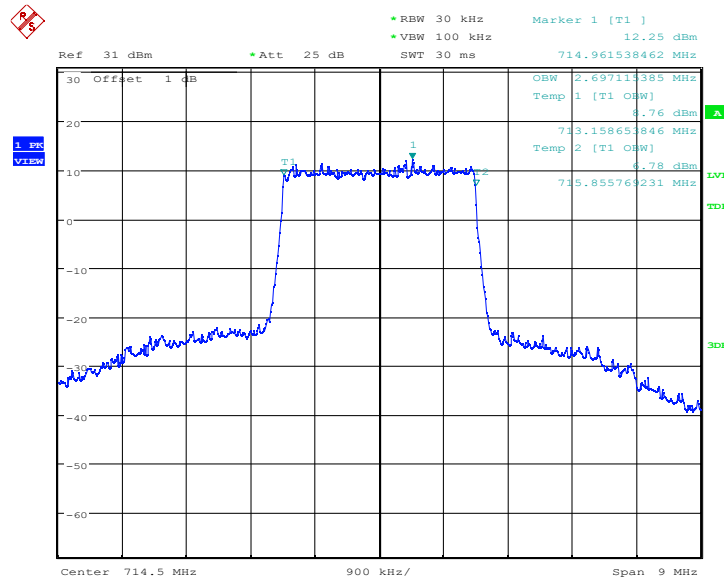
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Date: 26.FEB.2023 09:02:28

LTE band 12 , 3MHz Bandwidth,HIGH,16QAM (99% BW)



Date: 26.FEB.2023 09:02:49

LTE band 12,5MHz(99%)

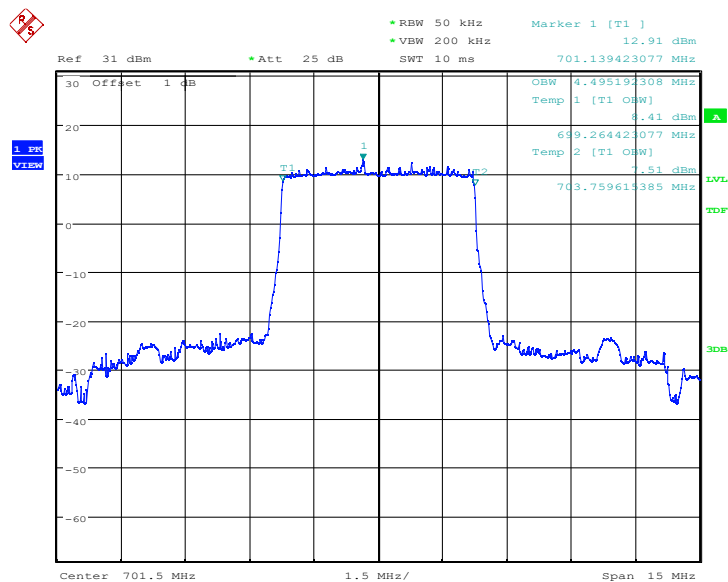
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM

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701.5	4.495	4.495
707.5	4.519	4.471
713.5	4.495	4.495

LTE band 12 , 5MHz Bandwidth,LOW,QPSK (99% BW)

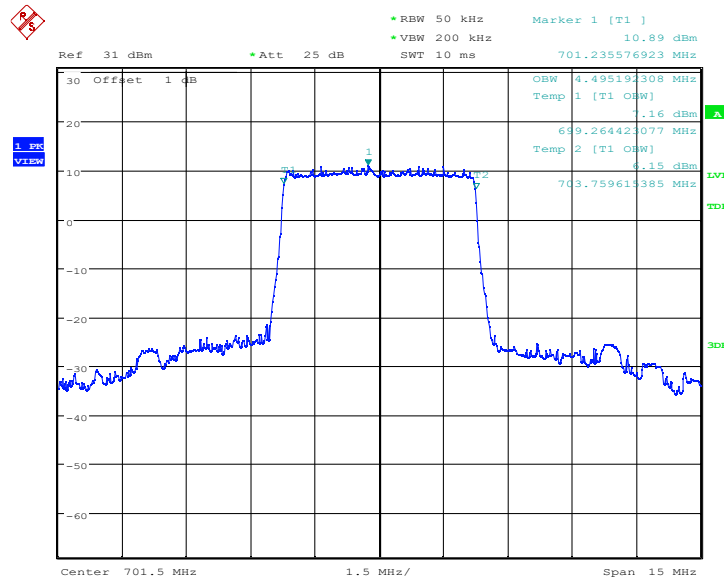


Date: 26.FEB.2023 09:04:02

LTE band 12 , 5MHz Bandwidth,LOW,16QAM (99% BW)

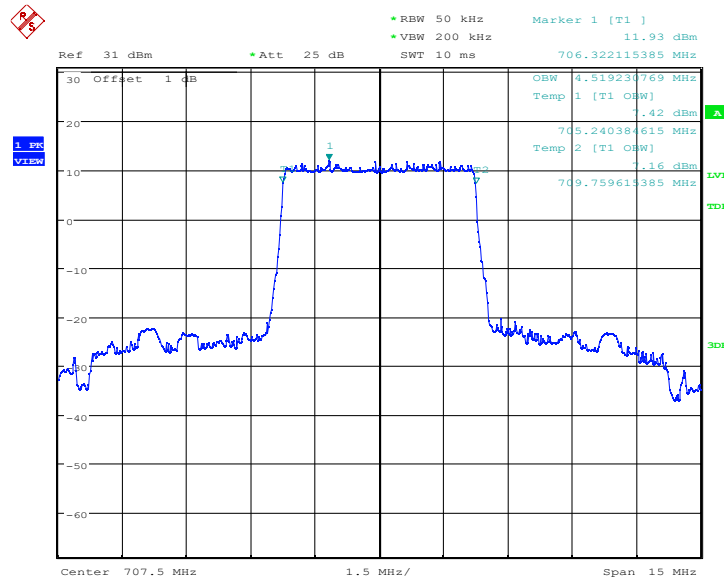
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Date: 26.FEB.2023 09:04:24

LTE band 12 , 5MHz Bandwidth,MID,QPSK (99% BW)

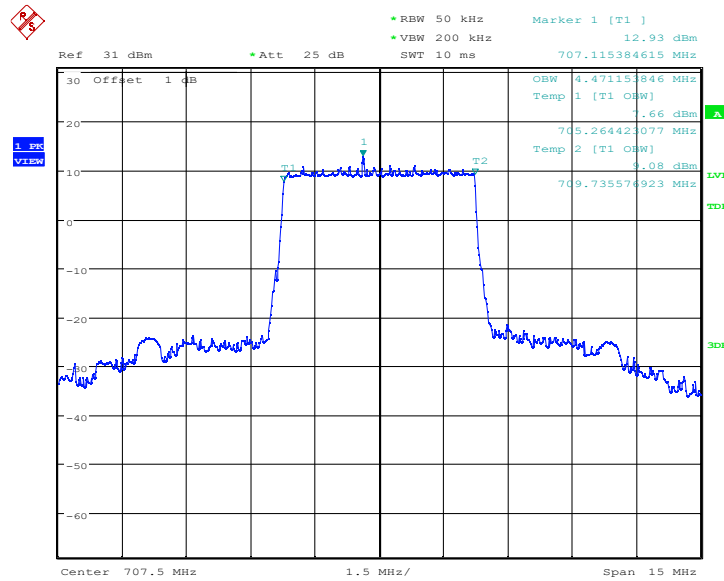


Date: 26.FEB.2023 09:04:50

LTE band 12 , 5MHz Bandwidth,MID,16QAM (99% BW)

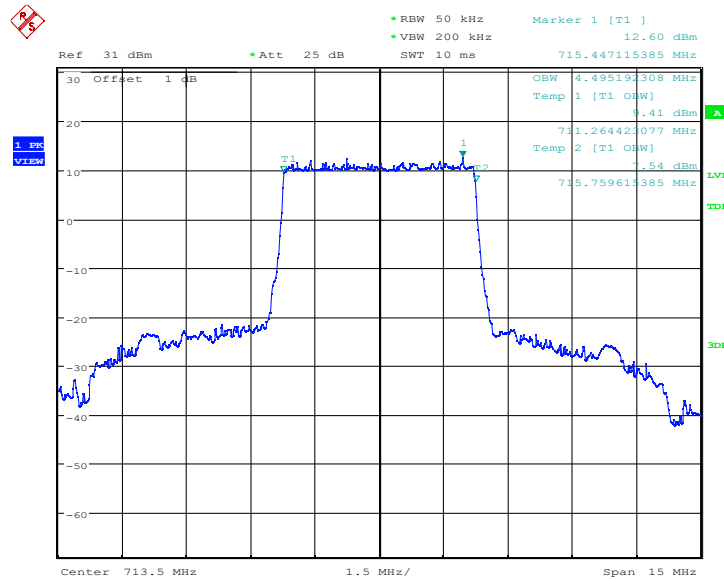
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Date: 26.FEB.2023 09:05:15

LTE band 12 , 5MHz Bandwidth,HIGH,QPSK (99% BW)

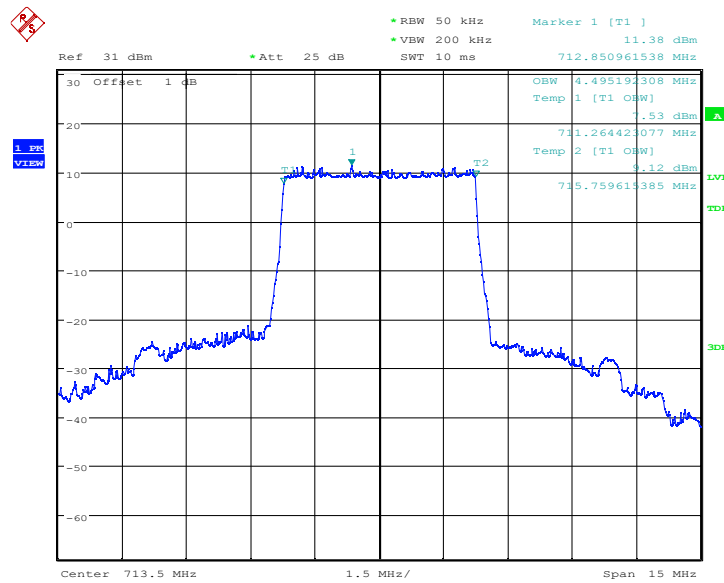


Date: 26.FEB.2023 09:05:46

LTE band 12 , 5MHz Bandwidth,HIGH,16QAM (99% BW)

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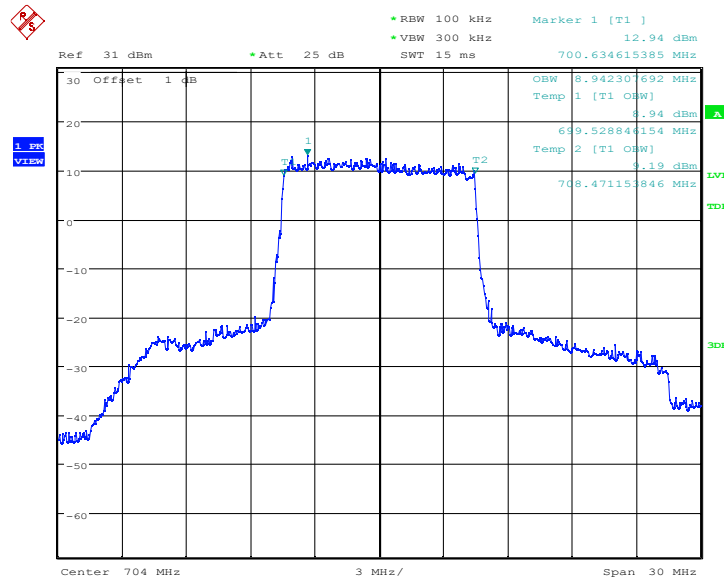


Date: 26.FEB.2023 09:06:13

LTE band 12,10MHz(99%)

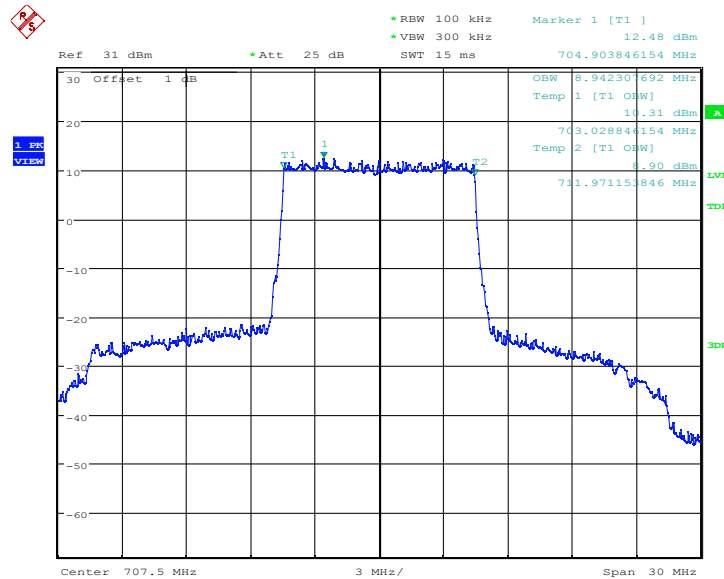
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
	QPSK
704	8.942
707.5	8.942
711	8.942

LTE band 12 , 10MHz Bandwidth,LOW,QPSK (99% BW)



Date: 26.FEB.2023 09:07:37

LTE band 12 , 10MHz Bandwidth,MID,QPSK (99% BW)

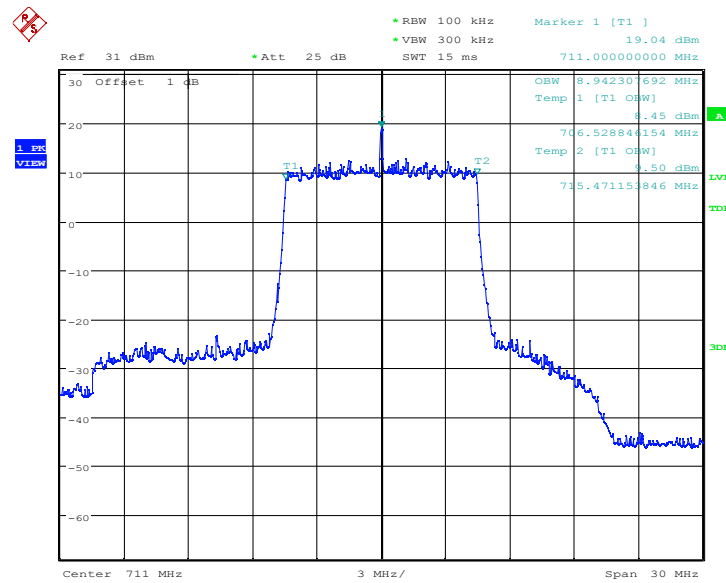


Date: 26.FEB.2023 09:08:05

LTE band 12 , 10MHz Bandwidth,HIGH,QPSK (99% BW)

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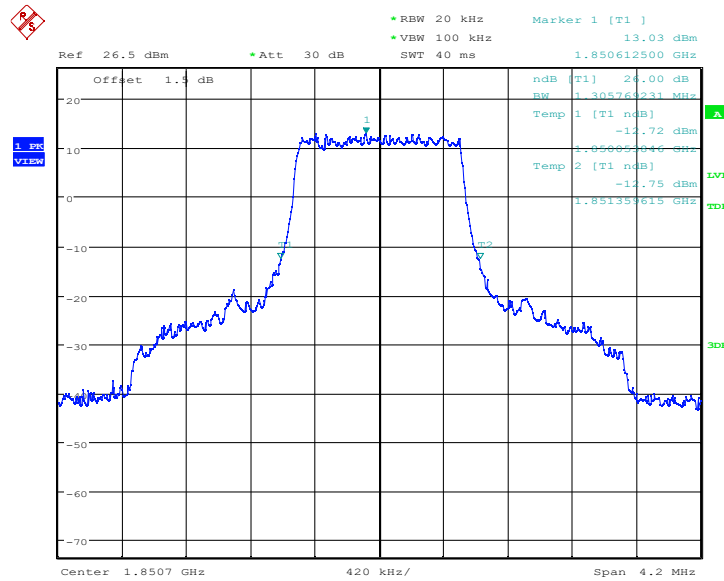


Date: 26.FEB.2023 09:08:37

LTE band 2,1.4MHz(-26dBc)

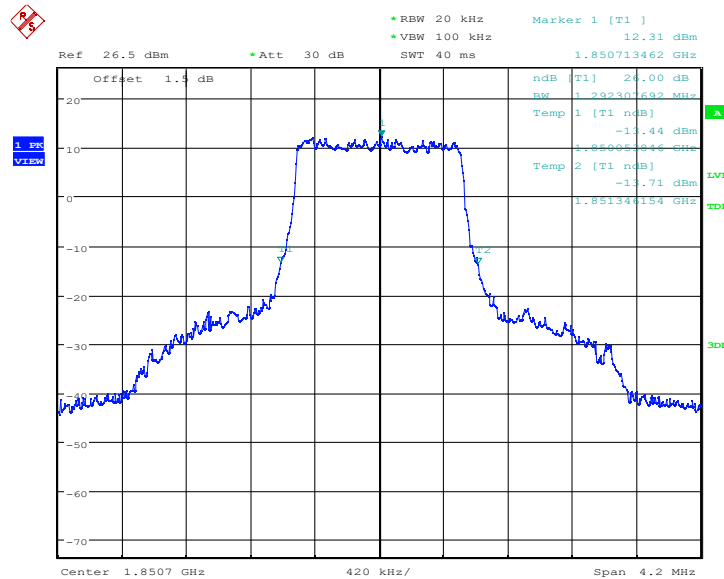
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1850.7	1.306	1.292
1880	1.279	1.279
1909.3	1.326	1.312

LTE band 2 , 1.4MHz Bandwidth,LOW,QPSK (-26dBc BW)



Date: 26.FEB.2023 09:09:16

LTE band 2 , 1.4MHz Bandwidth,LOW,16QAM (-26dBc BW)

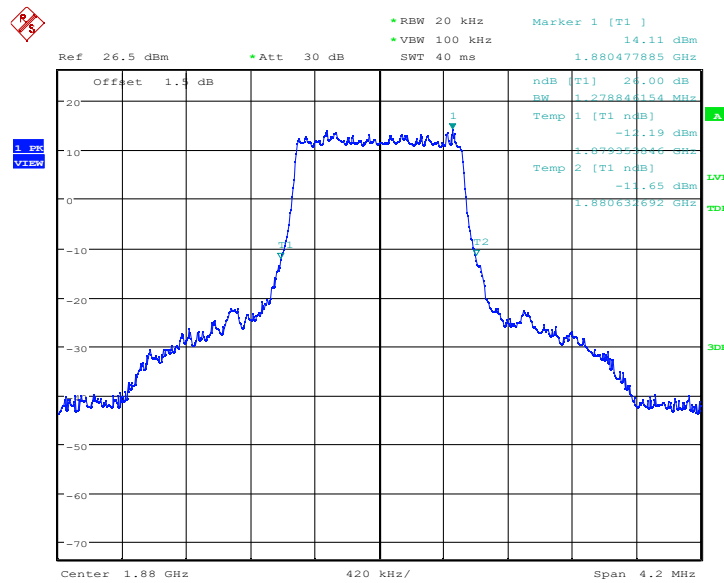


Date: 26.FEB.2023 09:09:39

LTE band 2 , 1.4MHz Bandwidth,MID,QPSK (-26dBc BW)

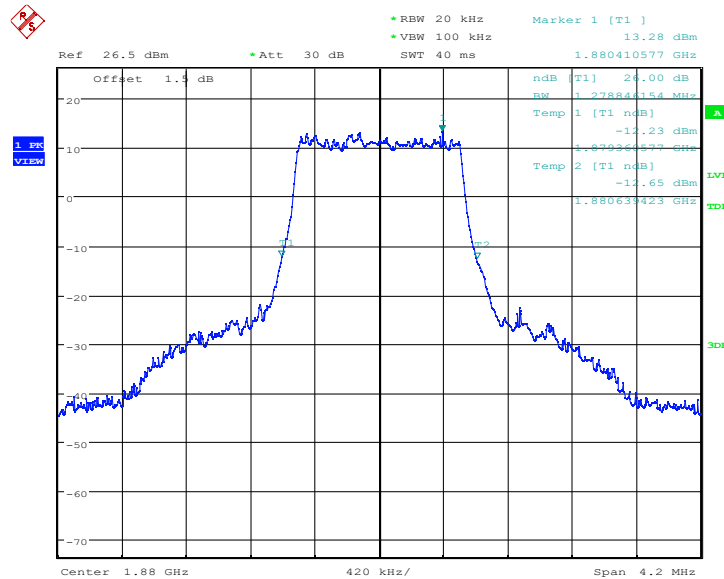
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Date: 26.FEB.2023 09:10:05

LTE band 2 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)

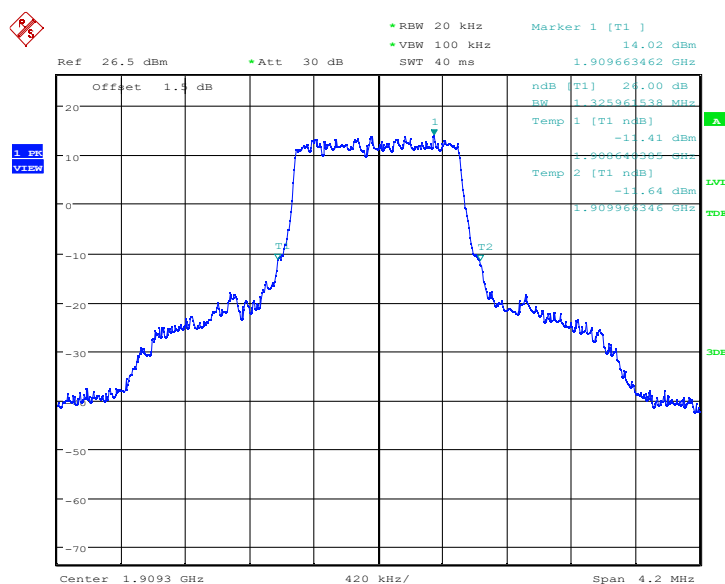


Date: 26.FEB.2023 09:10:29

LTE band 2 , 1.4MHz Bandwidth,HIGH,QPSK (-26dBc BW)

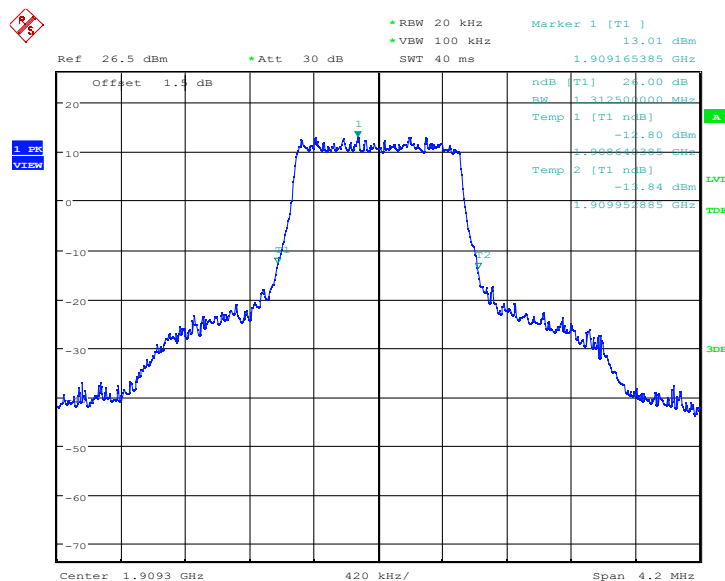
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Date: 26.FEB.2023 09:10:57

LTE band 2 , 1.4MHz Bandwidth,HIGH,16QAM (-26dBc BW)



Date: 26.FEB.2023 09:11:18

LTE band 2,3MHz(-26dBc)

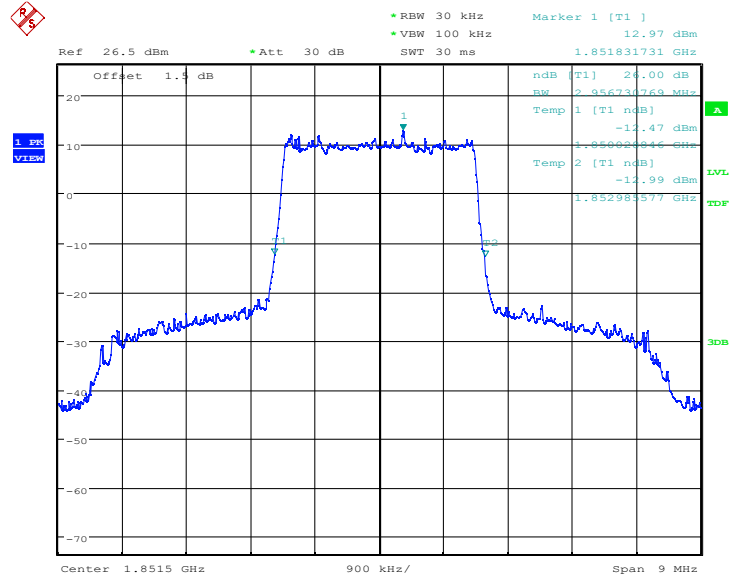
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM

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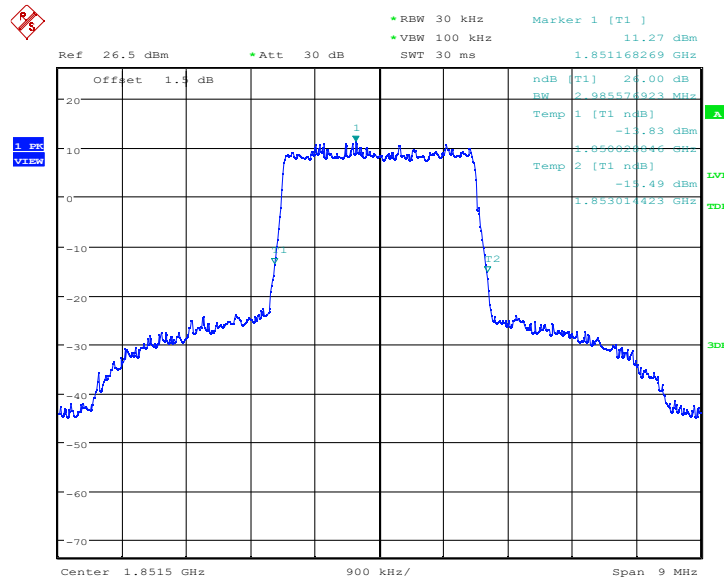
1851.5	2.957	2.986
1880	2.942	2.957
1908.5	2.971	2.957

LTE band 2 , 3MHz Bandwidth,LOW,QPSK (-26dBc BW)



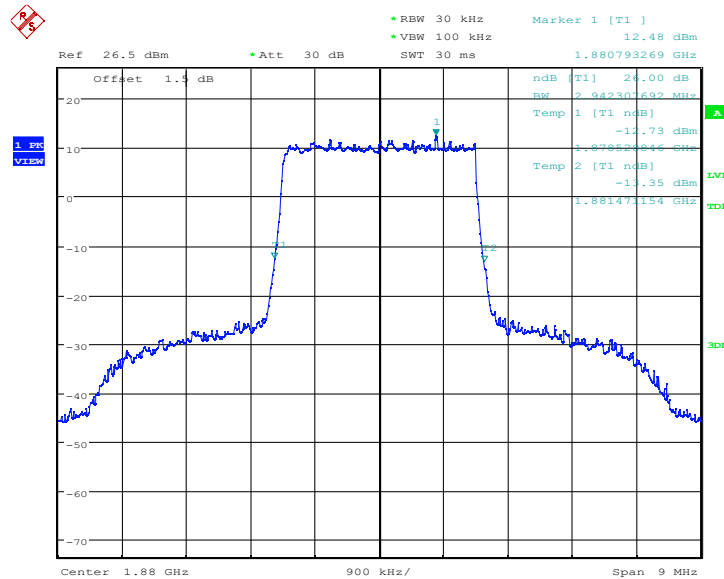
Date: 26.FEB.2023 09:12:39

LTE band 2 , 3MHz Bandwidth,LOW,16QAM (-26dBc BW)



Date: 26.FEB.2023 09:13:01

LTE band 2 , 3MHz Bandwidth,MID,QPSK (-26dBc BW)

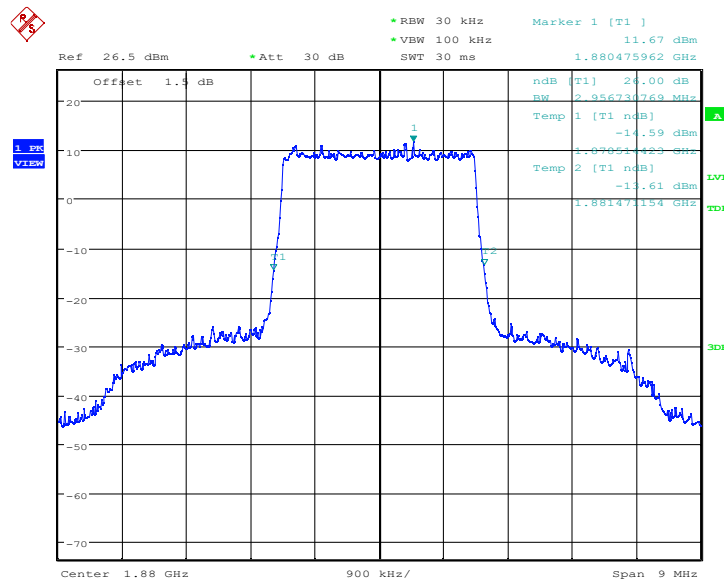


Date: 26.FEB.2023 09:13:28

LTE band 2 , 3MHz Bandwidth,MID,16QAM (-26dBc BW)

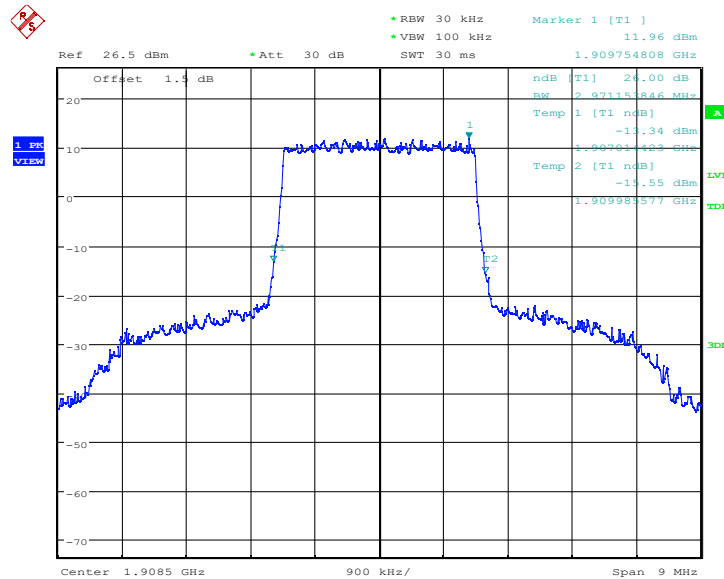
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Date: 26.FEB.2023 09:13:50

LTE band 2 , 3MHz Bandwidth,HIGH,QPSK (-26dBc BW)

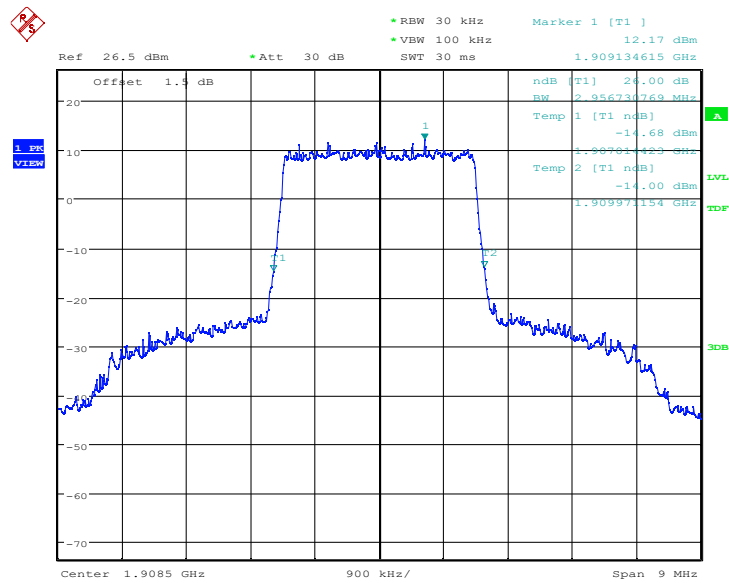


Date: 26.FEB.2023 09:14:15

LTE band 2 , 3MHz Bandwidth,HIGH,16QAM (-26dBc BW)

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Date: 26.FEB.2023 09:14:36

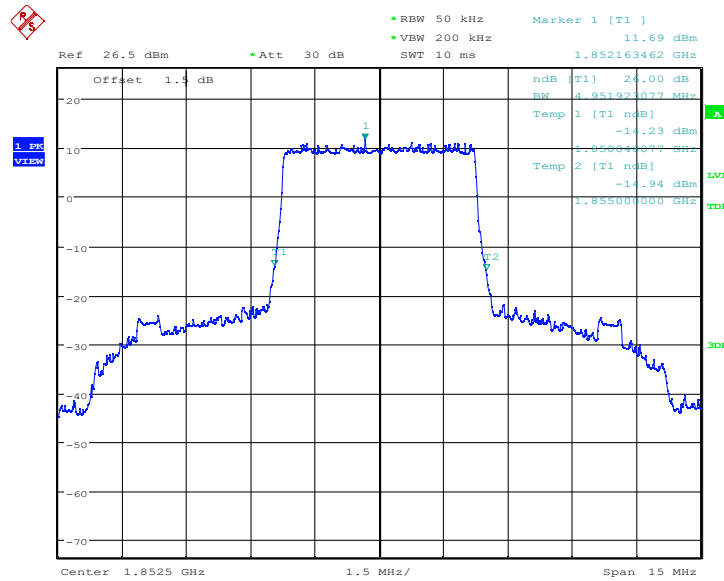
LTE band 2,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1852.5	4.952	4.976
1880	4.976	4.976
1907.5	4.928	4.928

LTE band 2 , 5MHz Bandwidth,LOW,QPSK (-26dBc BW)

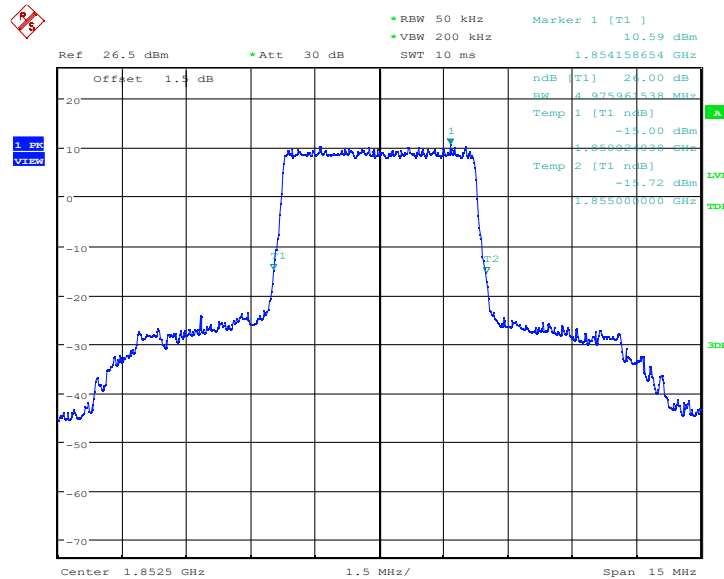
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Date: 26.FEB.2023 09:15:43

LTE band 2 , 5MHz Bandwidth,LOW,16QAM (-26dBc BW)

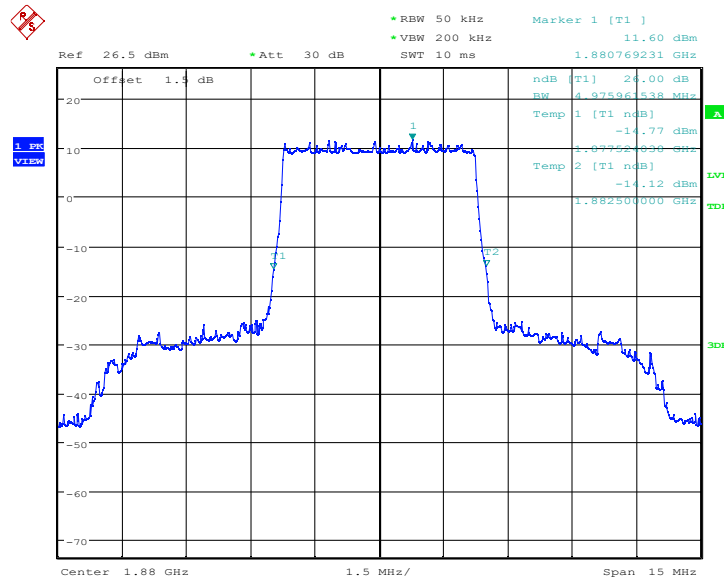


Date: 26.FEB.2023 09:16:04

LTE band 2 , 5MHz Bandwidth,MID,QPSK (-26dBc BW)

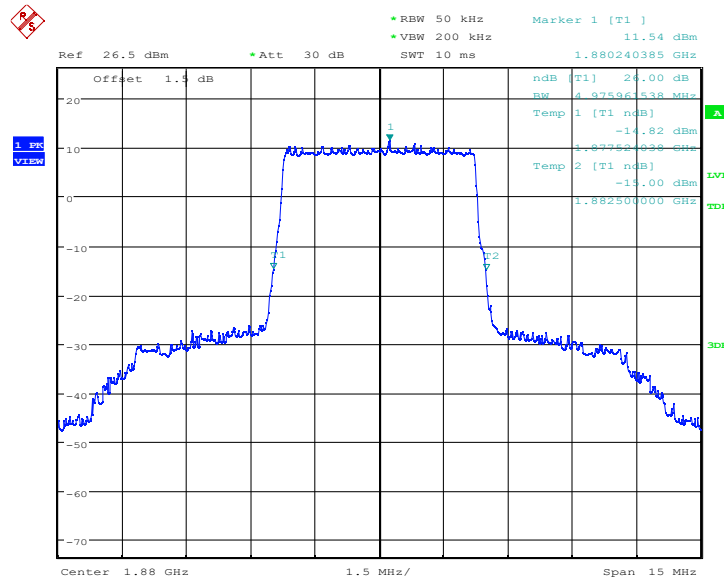
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Date: 26.FEB.2023 09:16:33

LTE band 2 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)

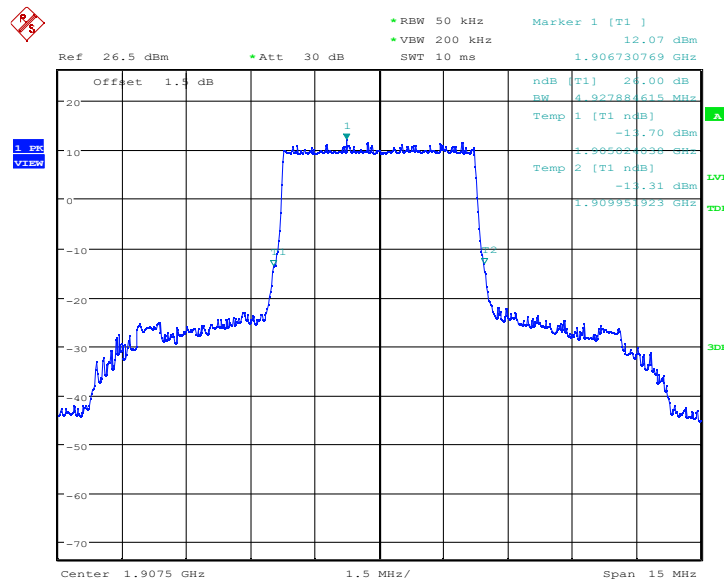


Date: 26.FEB.2023 09:16:56

LTE band 2 , 5MHz Bandwidth,HIGH,QPSK (-26dBc BW)

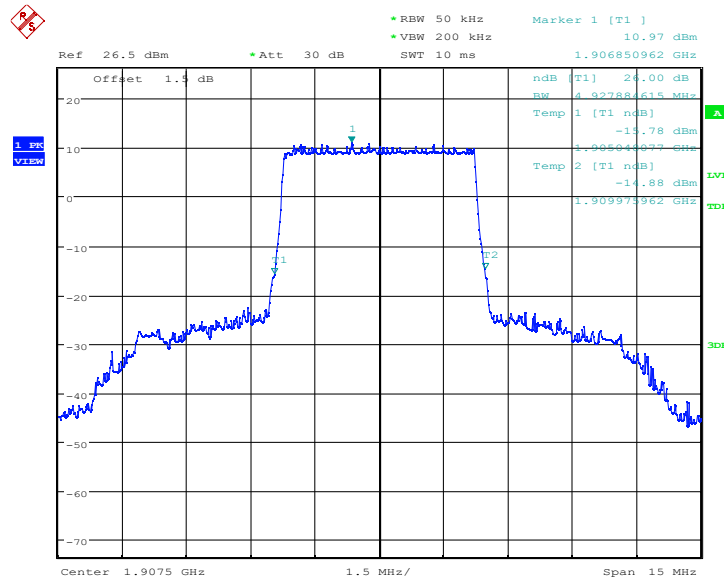
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Date: 26.FEB.2023 09:17:26

LTE band 2 , 5MHz Bandwidth,HIGH,16QAM (-26dBc BW)



Date: 26.FEB.2023 09:17:50

LTE band 2,10MHz(-26dBc)

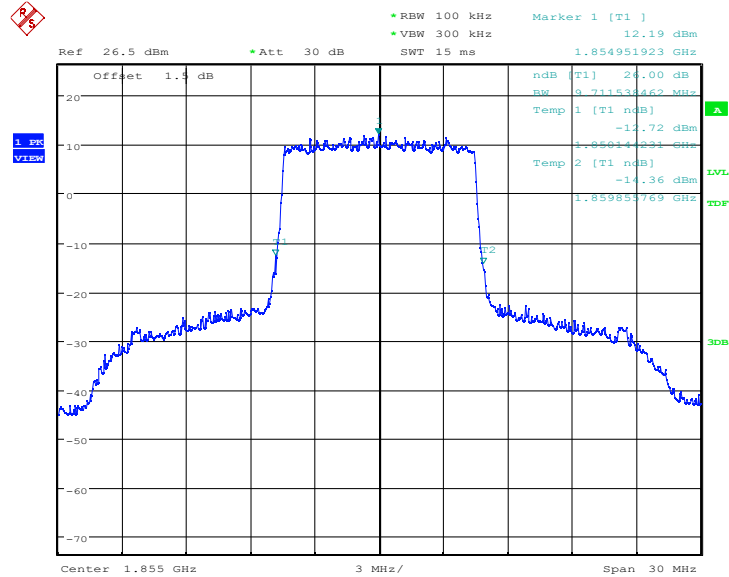
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
	QPSK

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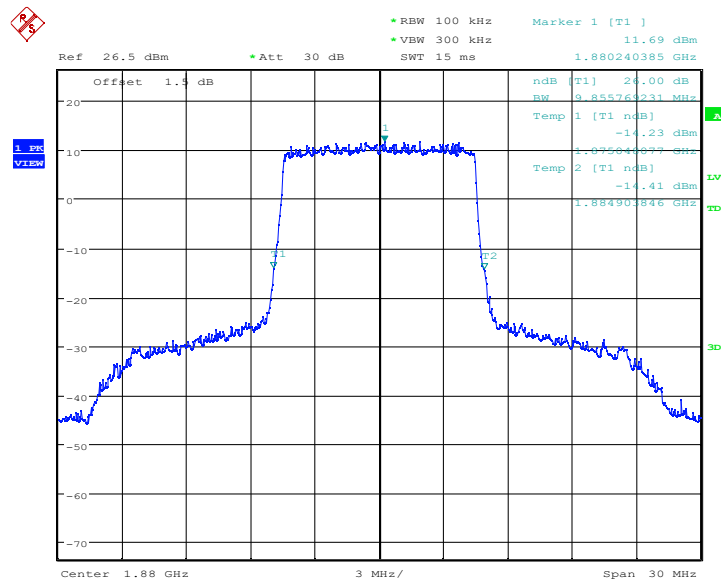
1855	9.712
1880	9.856
1905	9.712

LTE band 2 , 10MHz Bandwidth,LOW,QPSK (-26dBc BW)



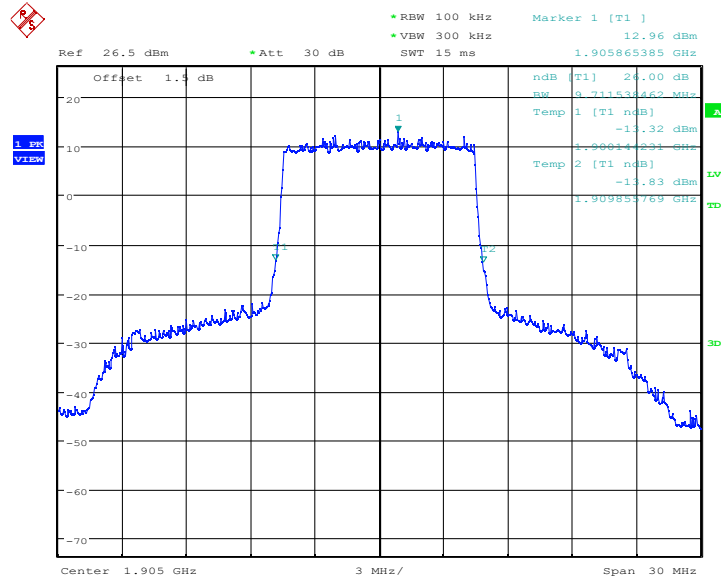
Date: 26.FEB.2023 09:19:28

LTE band 2 , 10MHz Bandwidth,MID,QPSK (-26dBc BW)



Date: 26.FEB.2023 09:19:54

LTE band 2 , 10MHz Bandwidth,HIGH,QPSK (-26dBc BW)



Date: 26.FEB.2023 09:20:48

LTE band 2,15MHz(-26dBc)

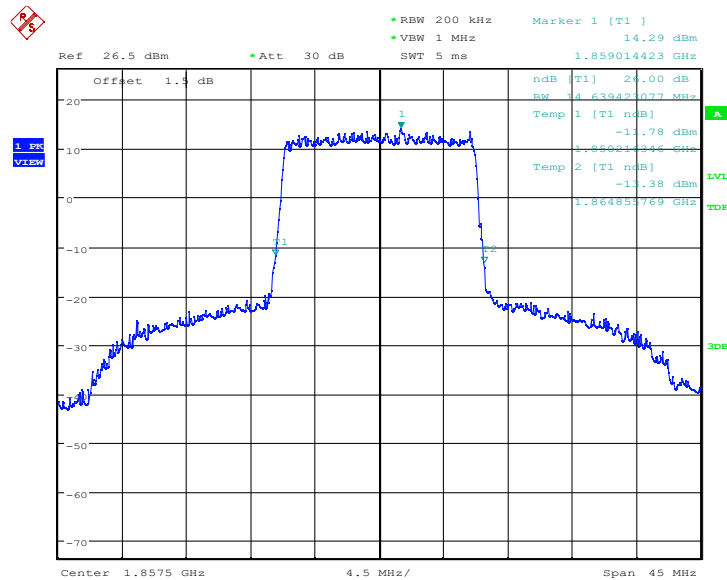
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
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	QPSK
1857.5	14.639
1880	14.495
1902.5	14.712

LTE band 2 , 15MHz Bandwidth,LOW,QPSK (-26dBc BW)

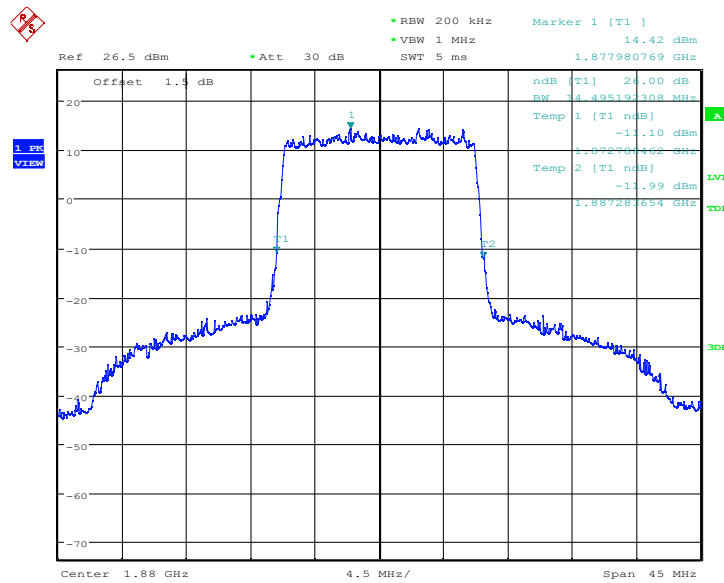


Date: 26.FEB.2023 09:22:48

LTE band 2 , 15MHz Bandwidth,MID,QPSK (-26dBc BW)

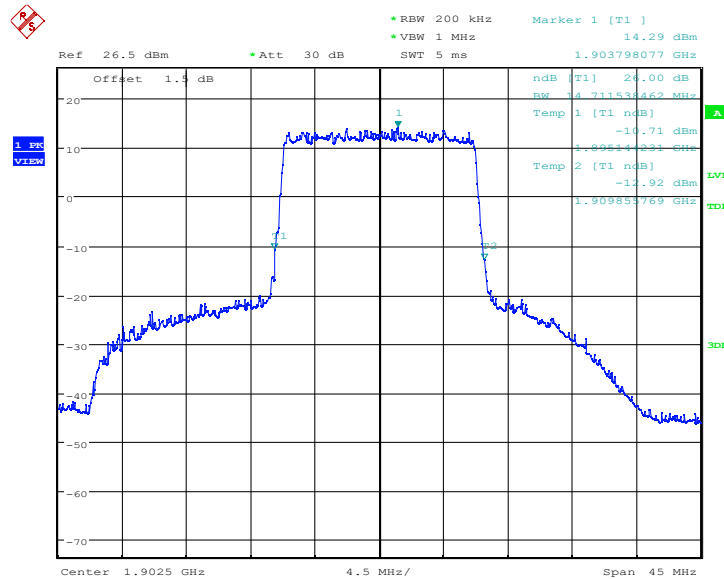
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Date: 26.FEB.2023 09:23:13

LTE band 2 , 15MHz Bandwidth,HIGH,QPSK (-26dBc BW)



Date: 26.FEB.2023 09:23:39

LTE band 2,20MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
	QPSK

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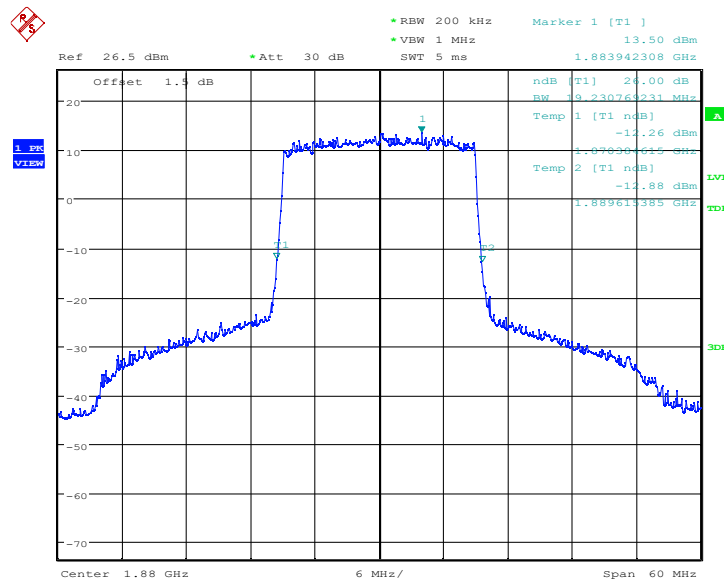
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1860	19.327
1880	19.231
1900	19.135

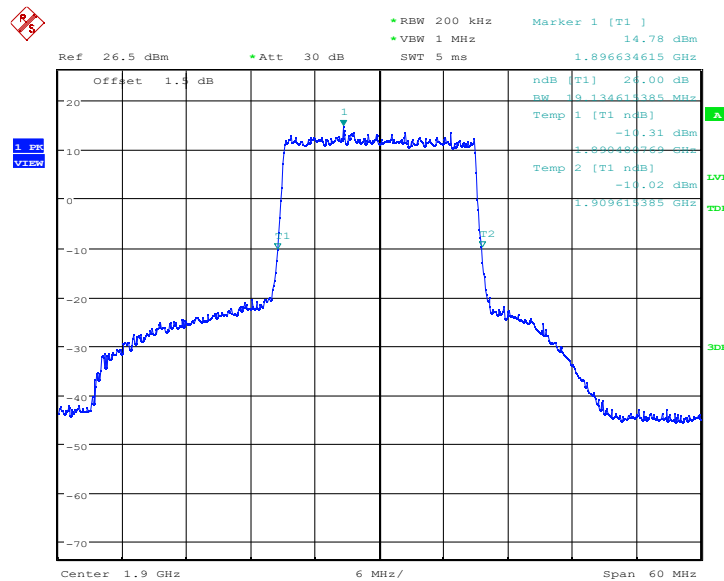
LTE band 2 , 20MHz Bandwidth,MID,QPSK (-26dBc BW)

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Date: 26.FEB.2023 09:26:11

LTE band 2 , 20MHz Bandwidth,HIGH,QPSK (-26dBc BW)



Date: 26.FEB.2023 09:26:42

LTE band 4,1.4MHz(-26dBc)

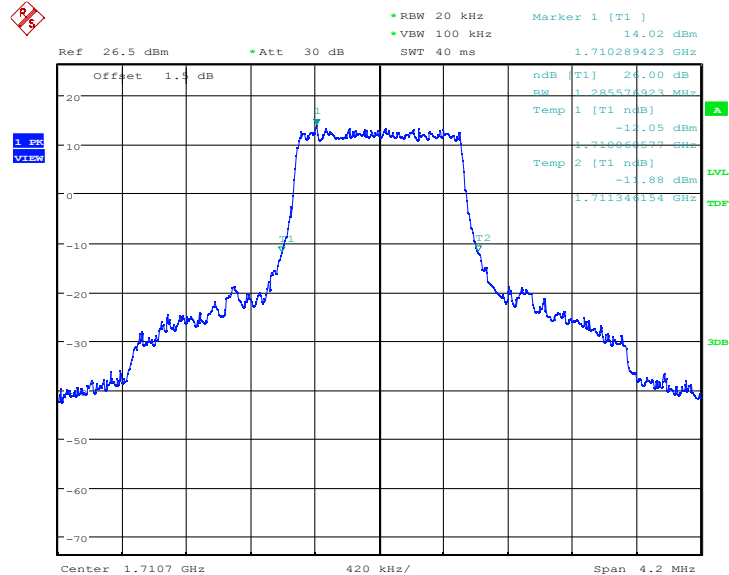
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM

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1710.7	1.286	1.286
1732.5	1.272	1.286
1754.3	1.299	1.306

LTE band 4 , 1.4MHz Bandwidth,LOW,QPSK (-26dBc BW)

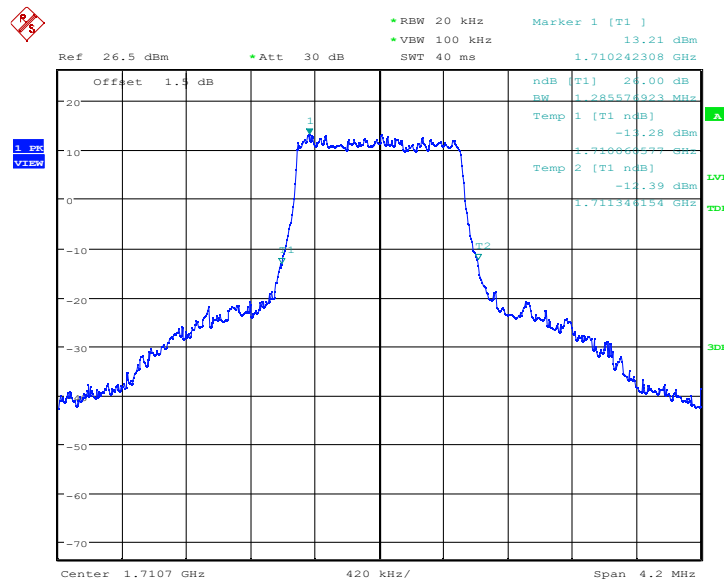


Date: 26.FEB.2023 09:27:20

LTE band 4 , 1.4MHz Bandwidth,LOW,16QAM (-26dBc BW)

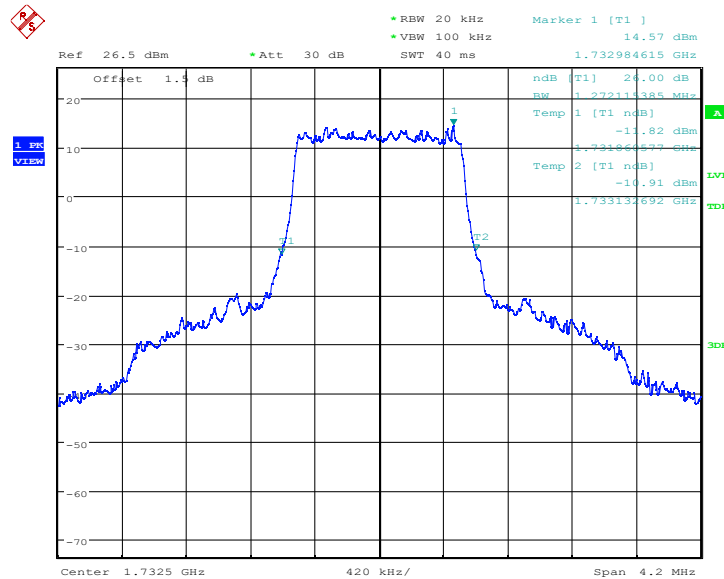
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Date: 26.FEB.2023 09:27:43

LTE band 4 , 1.4MHz Bandwidth,MID,QPSK (-26dBc BW)



Date: 26.FEB.2023 09:28:10

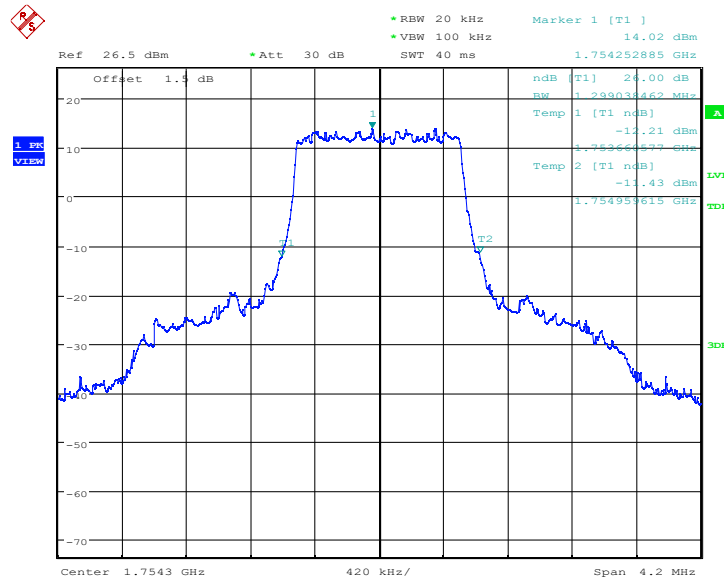
LTE band 4 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)

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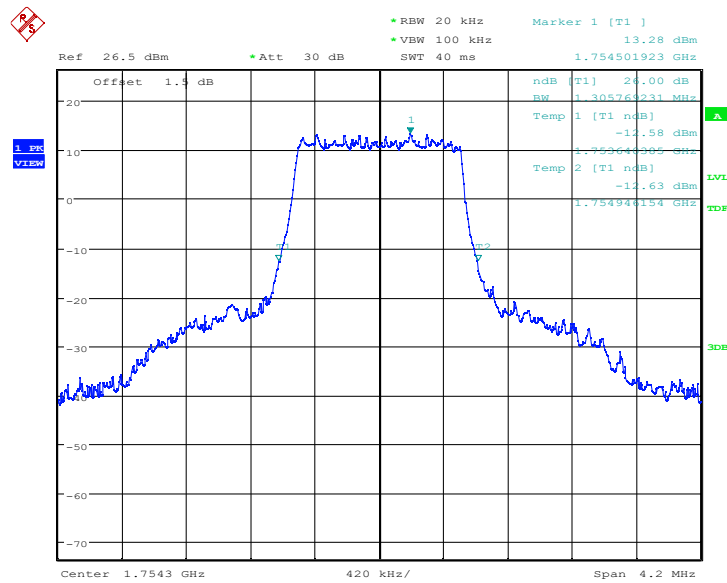
[illegible]

LTE band 4 , 1.4MHz Bandwidth,HIGH,QPSK (-26dBc BW)



LTE band 4 , 1.4MHz Bandwidth,HIGH,16QAM (-26dBc BW)

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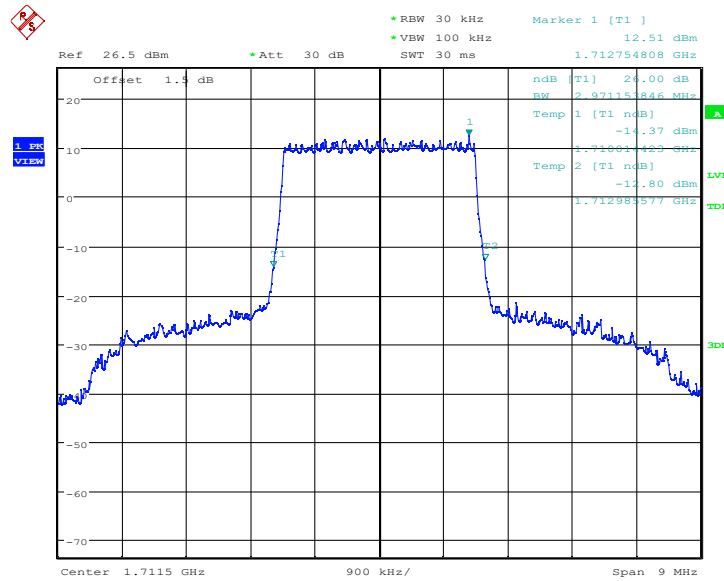


Date: 26.FEB.2023 09:29:26

LTE band 4,3MHz(-26dBc)

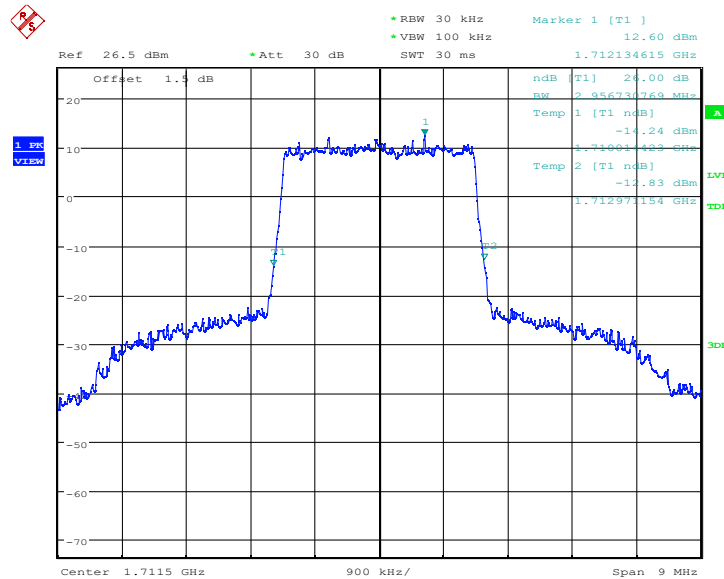
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1711.5	2.971	2.957
1732.5	2.942	2.971
1753.5	2.957	2.957

LTE band 4 , 3MHz Bandwidth,LOW,QPSK (-26dBc BW)



Date: 26.FEB.2023 09:30:32

LTE band 4 , 3MHz Bandwidth,LOW,16QAM (-26dBc BW)

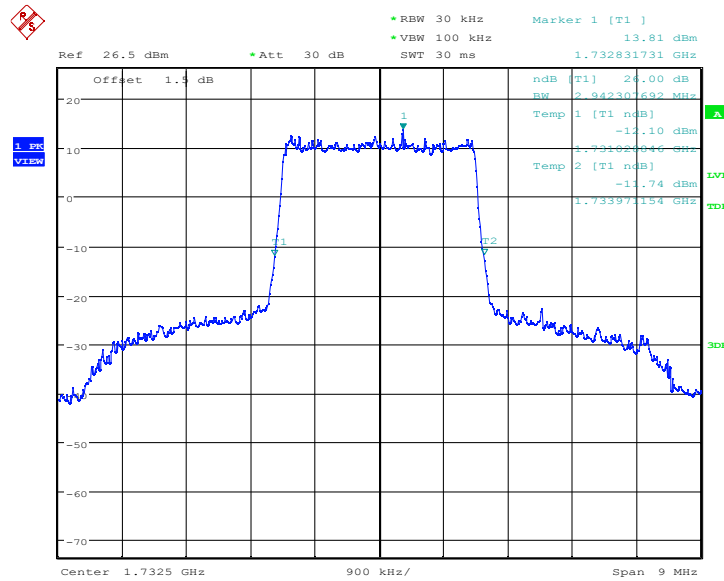


Date: 26.FEB.2023 09:30:56

LTE band 4 , 3MHz Bandwidth,MID,QPSK (-26dBc BW)

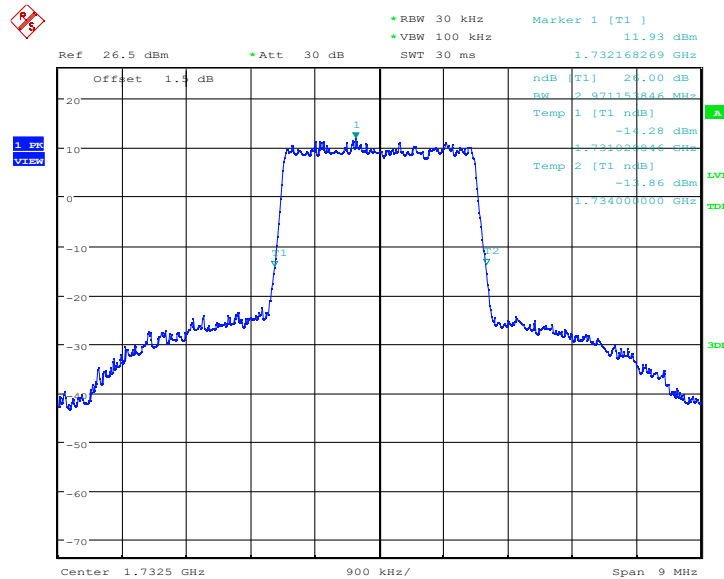
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Date: 26.FEB.2023 09:31:24

LTE band 4 , 3MHz Bandwidth,MID,16QAM (-26dBc BW)

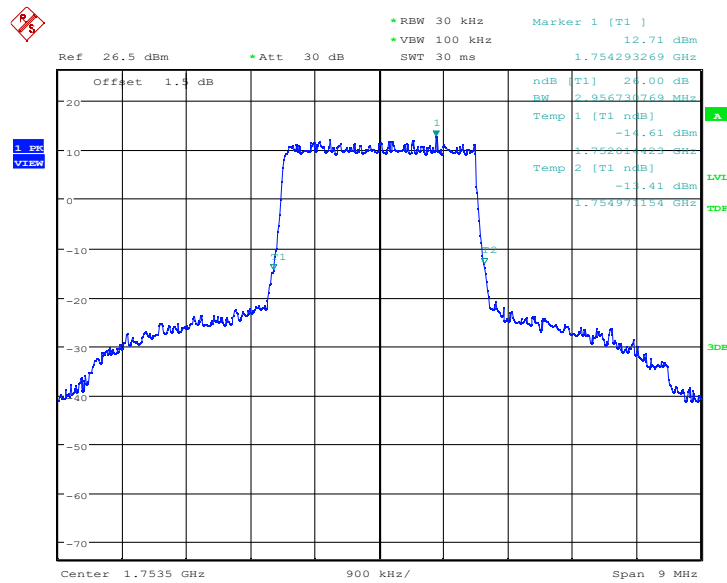


Date: 26.FEB.2023 09:31:55

LTE band 4 , 3MHz Bandwidth,HIGH,QPSK (-26dBc BW)

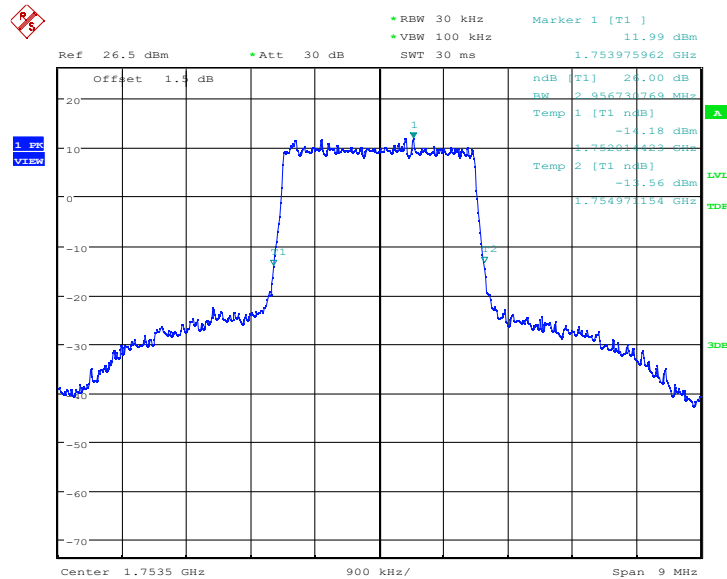
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Date: 26.FEB.2023 09:32:24

LTE band 4 , 3MHz Bandwidth,HIGH,16QAM (-26dBc BW)



Date: 26.FEB.2023 09:32:48

LTE band 4,5MHz(-26dBc)

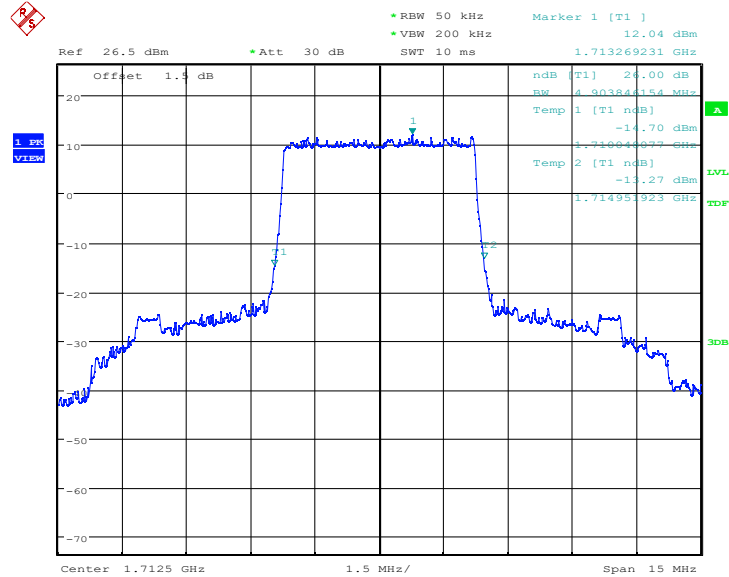
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM

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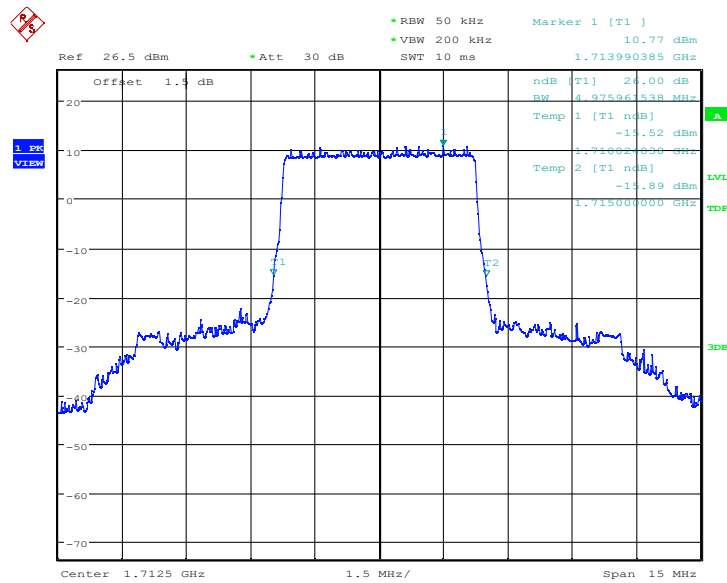
1712.5	4.904	4.976
1732.5	4.976	4.952
1752.5	4.952	4.928

LTE band 4 , 5MHz Bandwidth,LOW,QPSK (-26dBc BW)



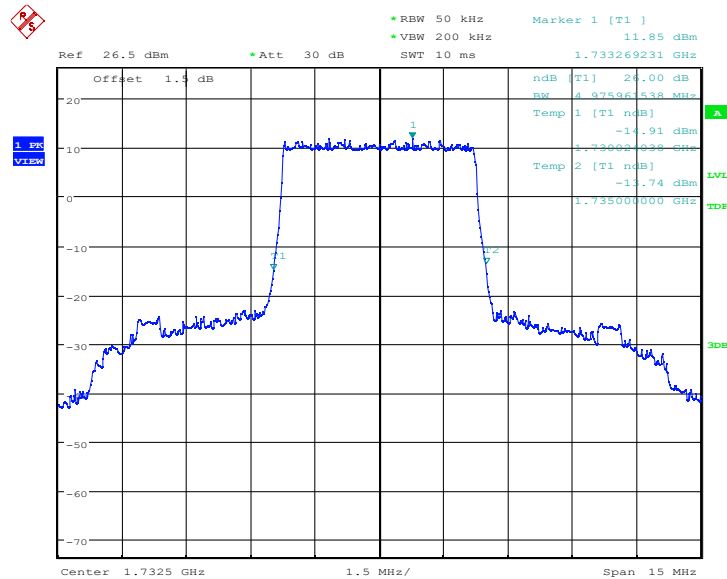
Date: 26.FEB.2023 09:33:54

LTE band 4 , 5MHz Bandwidth,LOW,16QAM (-26dBc BW)



Date: 26.FEB.2023 09:34:21

LTE band 4 , 5MHz Bandwidth,MID,QPSK (-26dBc BW)



Date: 26.FEB.2023 09:34:53

LTE band 4 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)

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* RBW 50 kHz
 * VBW 200 kHz
 SWT 10 ms

Marker 1 [T1]
 13.04 dBm
 1.732139423 GHz

Ref 26.5 dBm
 Att 30 dB

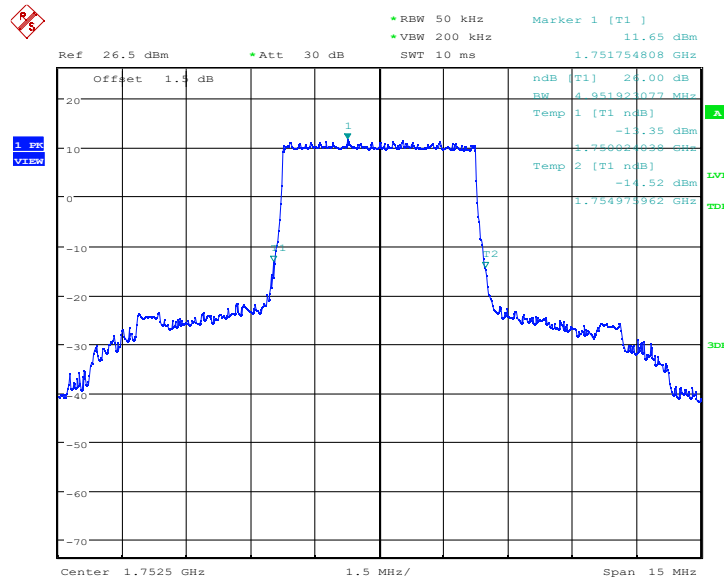
Offset 1.1 dB

1.00
 1.00

ndB [T1] 24.00 dB
 BW 4.951924677 MHz
 Temp 1 [T1 ndB] -11.45 dBm
 1.732624836 GHz
 Temp 2 [T1 ndB] -12.78 dBm
 1.734973962 GHz

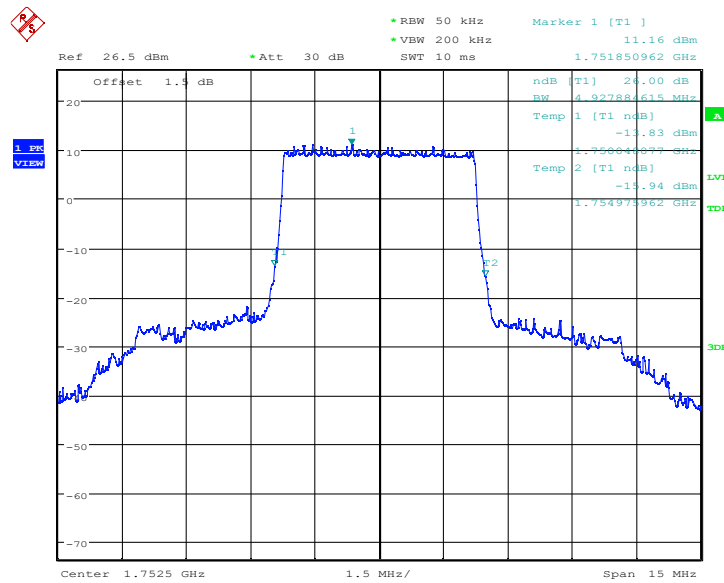
Center 1.7325 GHz
 1.5 MHz/
 Span 15 MHz

LTE band 4 , 5MHz Bandwidth,HIGH,QPSK (-26dBc BW)



LTE band 4 , 5MHz Bandwidth,HIGH,16QAM (-26dBc BW)

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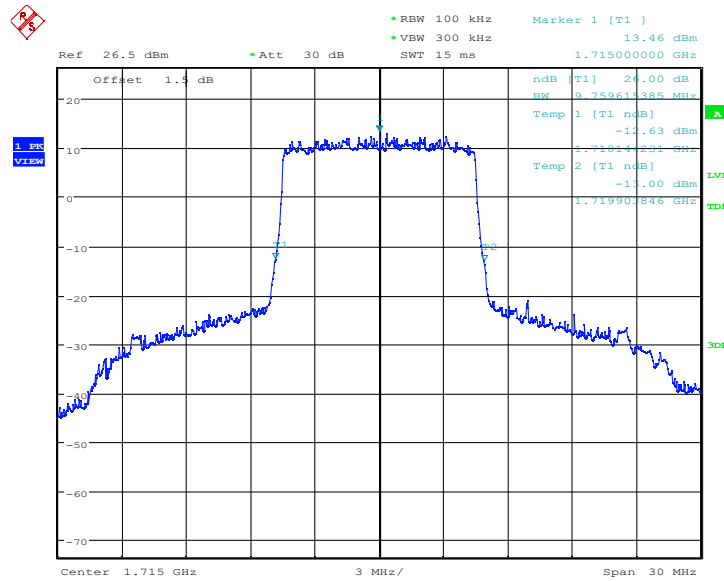


Date: 26.FEB.2023 09:36:27

LTE band 4,10MHz(-26dBc)

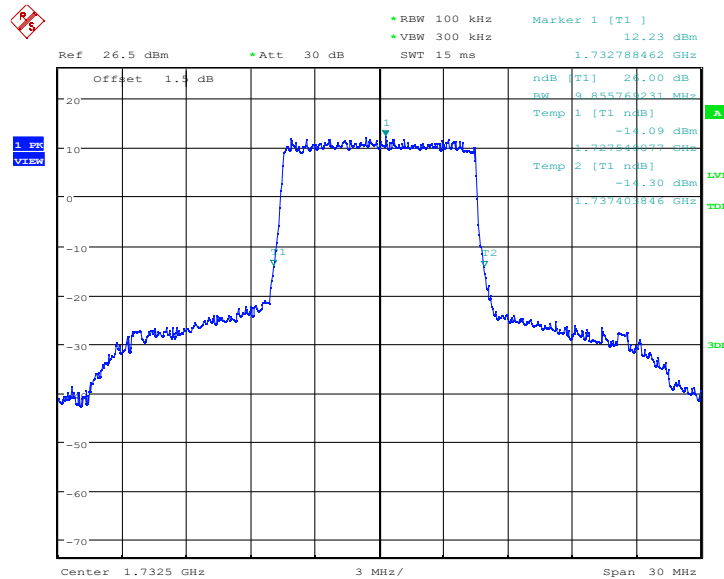
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
	QPSK
1715	9.760
1732.5	9.856
1750	9.760

LTE band 4 , 10MHz Bandwidth,LOW,QPSK (-26dBc BW)



Date: 26.FEB.2023 09:38:06

LTE band 4 , 10MHz Bandwidth,MID,QPSK (-26dBc BW)

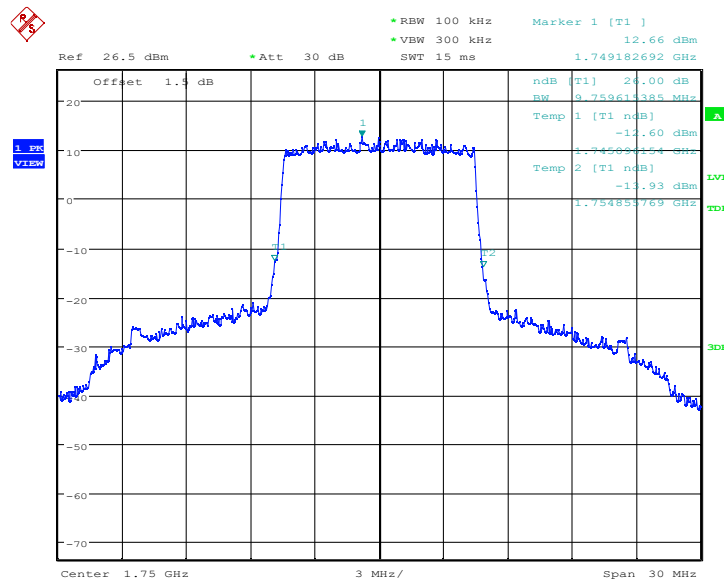


Date: 26.FEB.2023 09:38:32

LTE band 4 , 10MHz Bandwidth,HIGH,QPSK (-26dBc BW)

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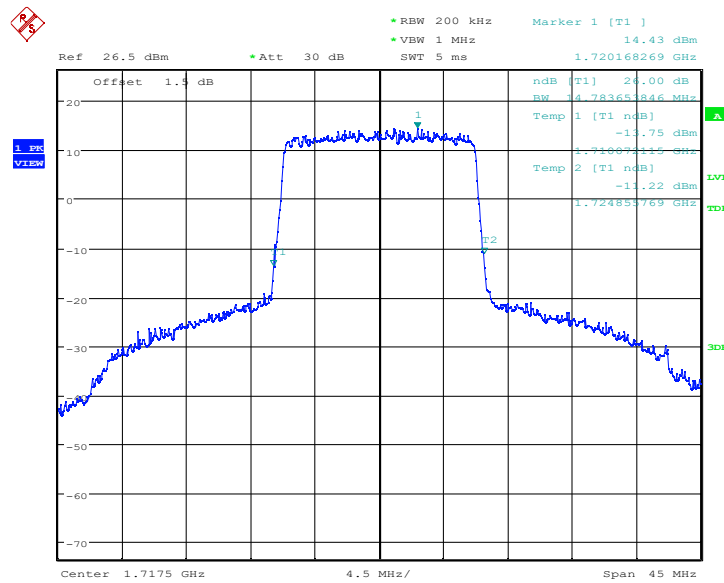


Date: 26.FEB.2023 09:39:00

LTE band 4,15MHz(-26dBc)

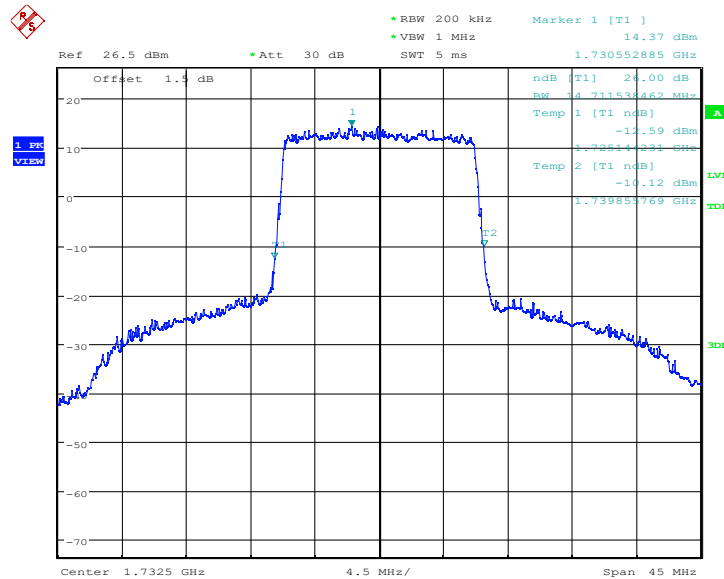
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
	QPSK
1717.5	14.784
1732.5	14.712
1747.5	14.639

LTE band 4 , 15MHz Bandwidth,LOW,QPSK (-26dBc BW)



Date: 26.FEB.2023 09:40:39

LTE band 4 , 15MHz Bandwidth,MID,QPSK (-26dBc BW)

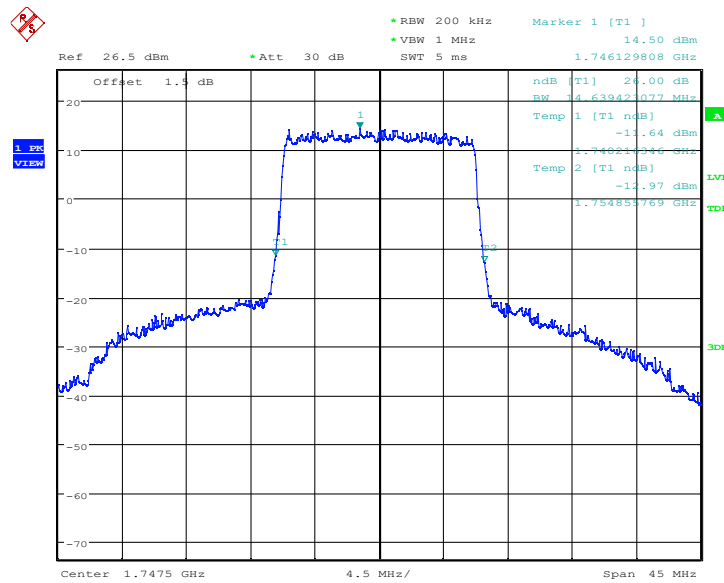


Date: 26.FEB.2023 09:41:05

LTE band 4 , 15MHz Bandwidth,HIGH,QPSK (-26dBc BW)

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Date: 26.FEB.2023 09:41:30

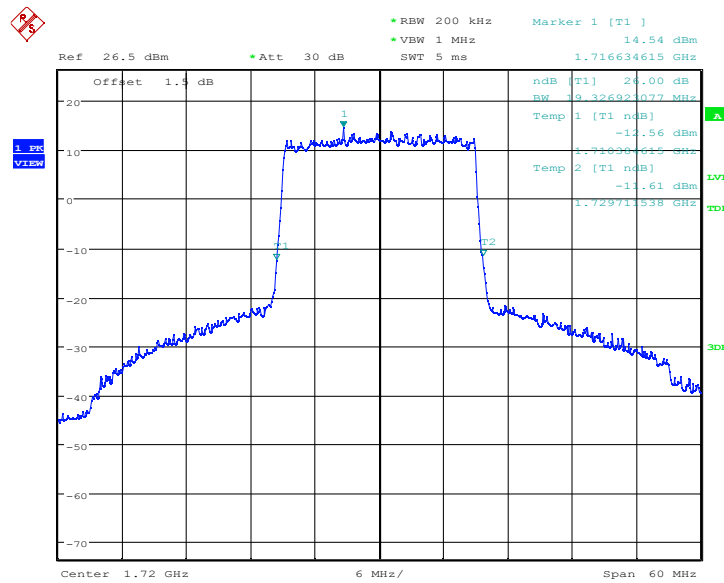
LTE band 4,20MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
	QPSK
1720	19.327
1732.5	19.327
1745	19.231

LTE band 4 , 20MHz Bandwidth,LOW,QPSK (-26dBc BW)

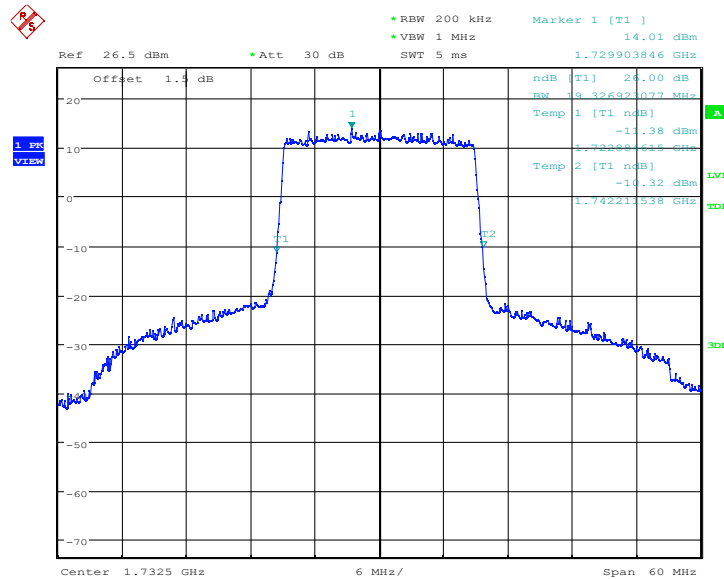
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Date: 26.FEB.2023 09:42:32

LTE band 4 , 20MHz Bandwidth,MID,QPSK (-26dBc BW)

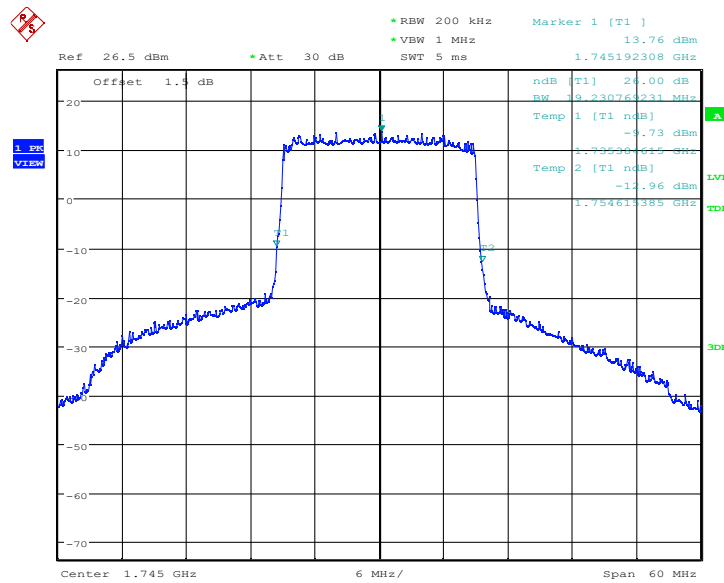


Date: 26.FEB.2023 09:42:59

LTE band 4 , 20MHz Bandwidth,HIGH,QPSK (-26dBc BW)

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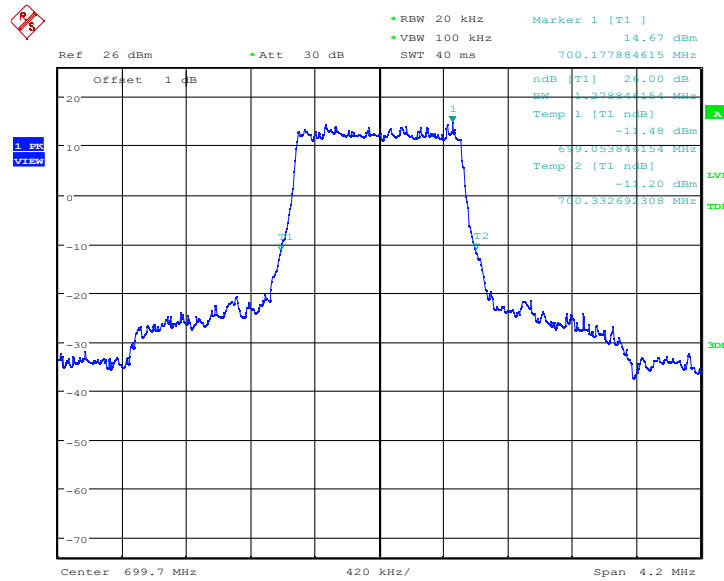


Date: 26.FEB.2023 09:43:25

LTE band 12,1.4MHz(-26dBc)

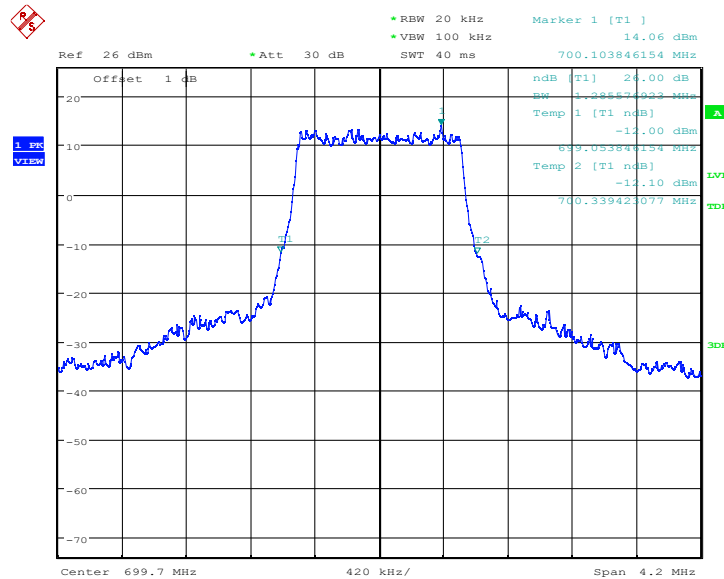
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
699.7	1.279	1.286
707.5	1.286	1.299
715.3	1.306	1.292

LTE band 12 , 1.4MHz Bandwidth,LOW,QPSK (-26dBc BW)



Date: 26.FEB.2023 09:44:33

LTE band 12 , 1.4MHz Bandwidth,LOW,16QAM (-26dBc BW)

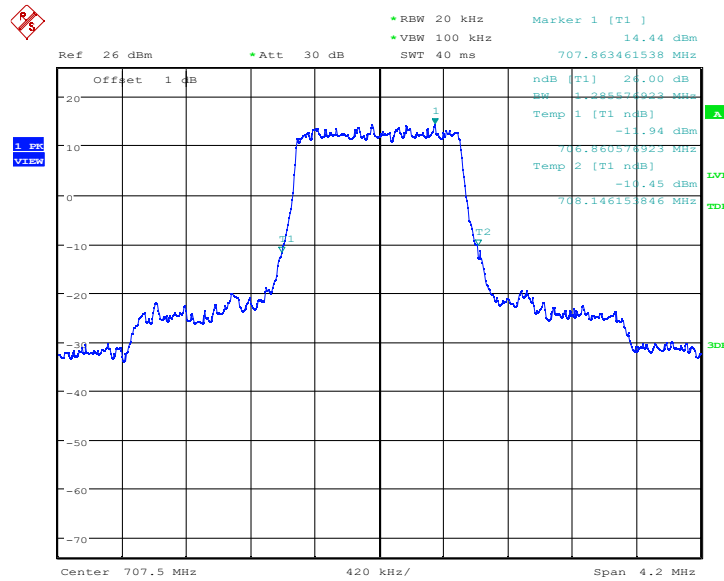


Date: 26.FEB.2023 09:44:55

LTE band 12 , 1.4MHz Bandwidth,MID,QPSK (-26dBc BW)

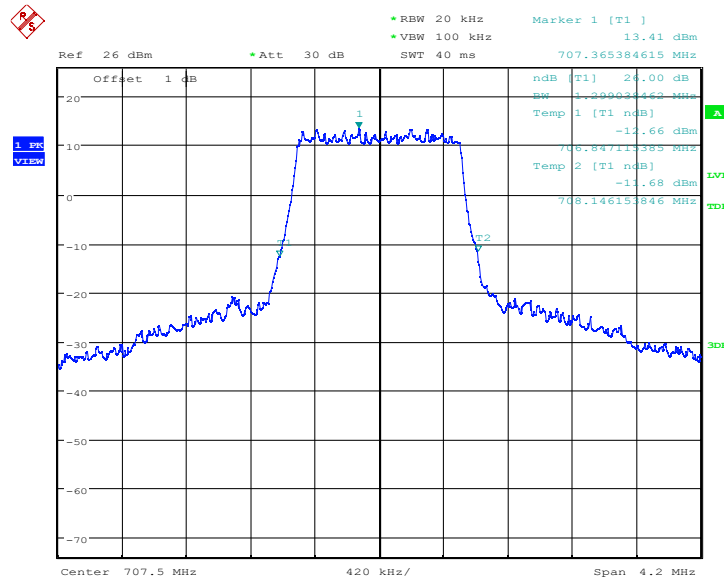
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Date: 26.FEB.2023 09:45:22

LTE band 12 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)

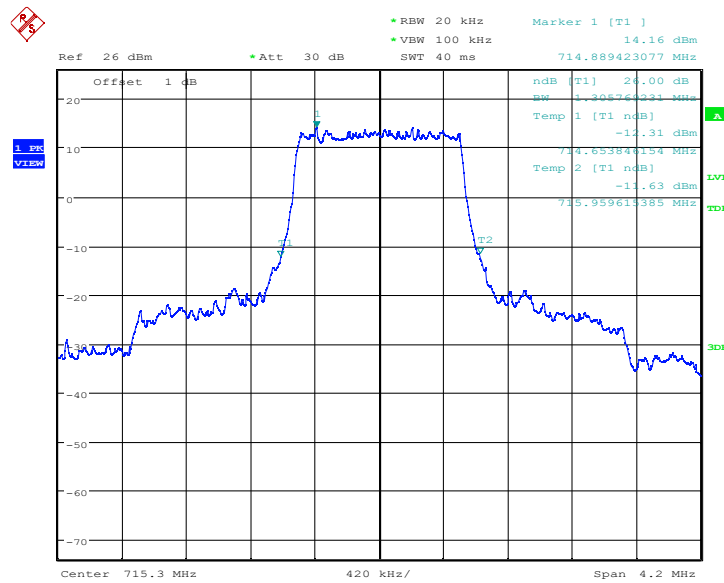


Date: 26.FEB.2023 09:45:43

LTE band 12 , 1.4MHz Bandwidth,HIGH,QPSK (-26dBc BW)

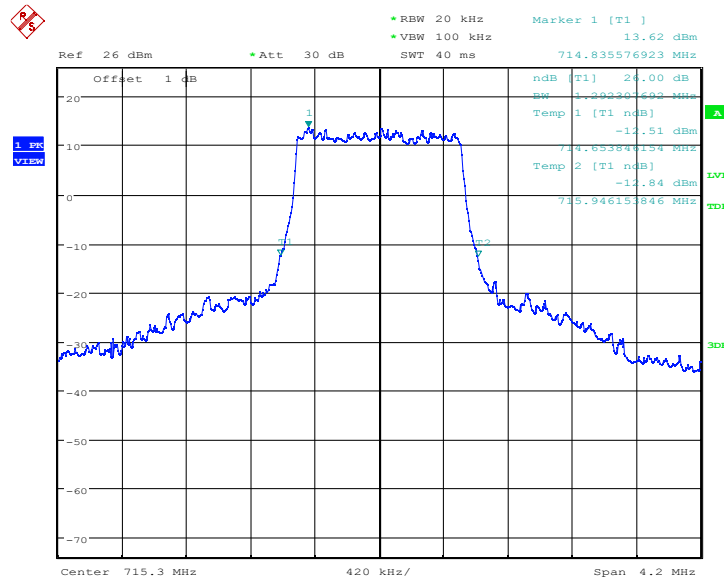
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Date: 26.FEB.2023 09:46:08

LTE band 12 , 1.4MHz Bandwidth,HIGH,16QAM (-26dBc BW)



Date: 26.FEB.2023 09:46:31

LTE band 12,3MHz(-26dBc)

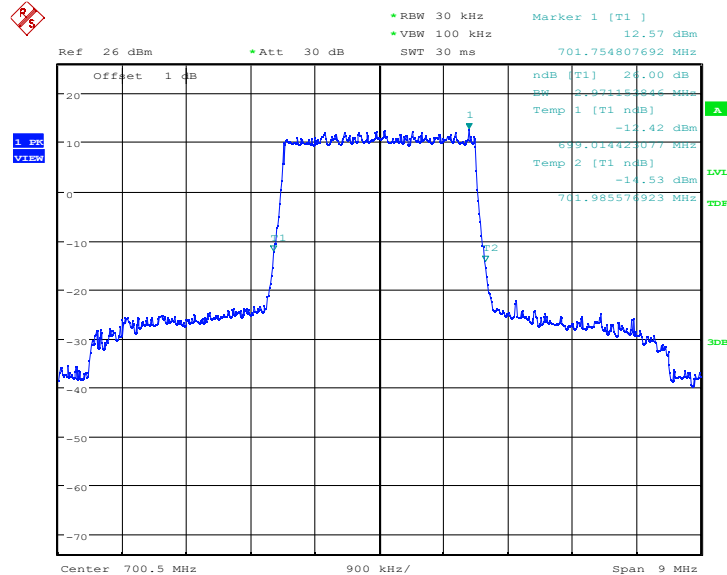
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM

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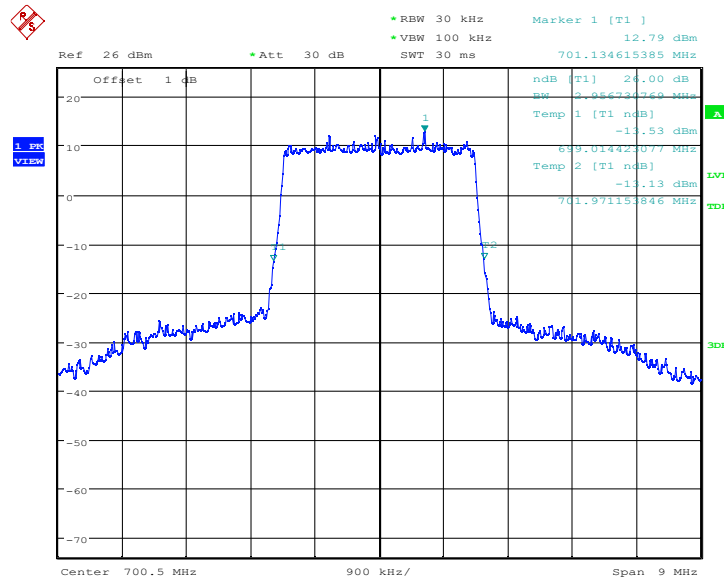
700.5	2.971	2.957
707.5	2.957	2.971
714.5	2.942	2.957

LTE band 12 , 3MHz Bandwidth,LOW,QPSK (-26dBc BW)



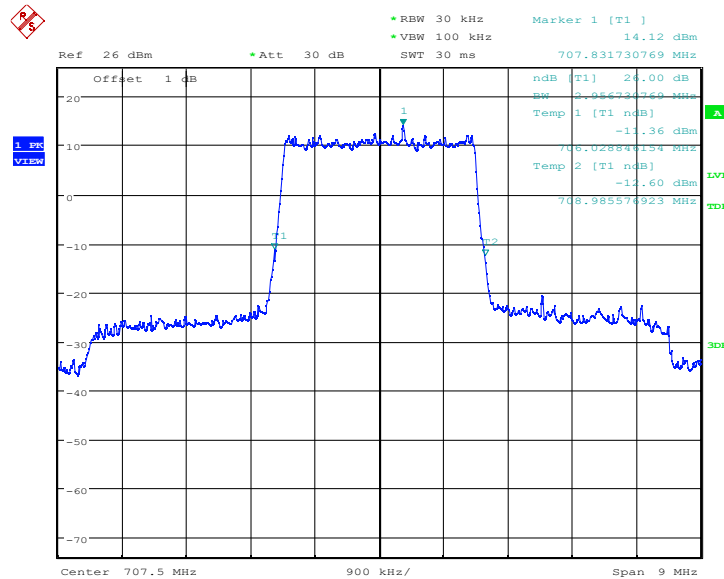
Date: 26.FEB.2023 09:47:40

LTE band 12 , 3MHz Bandwidth,LOW,16QAM (-26dBc BW)



Date: 26.FEB.2023 09:48:02

LTE band 12 , 3MHz Bandwidth,MID,QPSK (-26dBc BW)

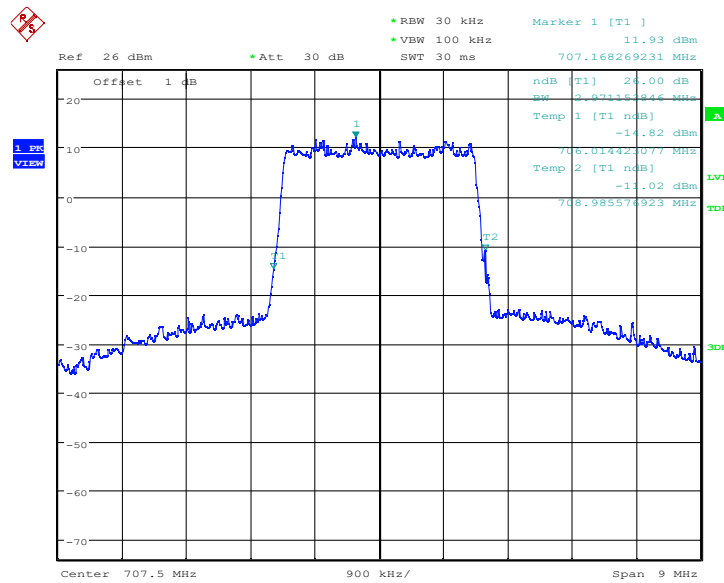


Date: 26.FEB.2023 09:48:28

LTE band 12 , 3MHz Bandwidth,MID,16QAM (-26dBc BW)

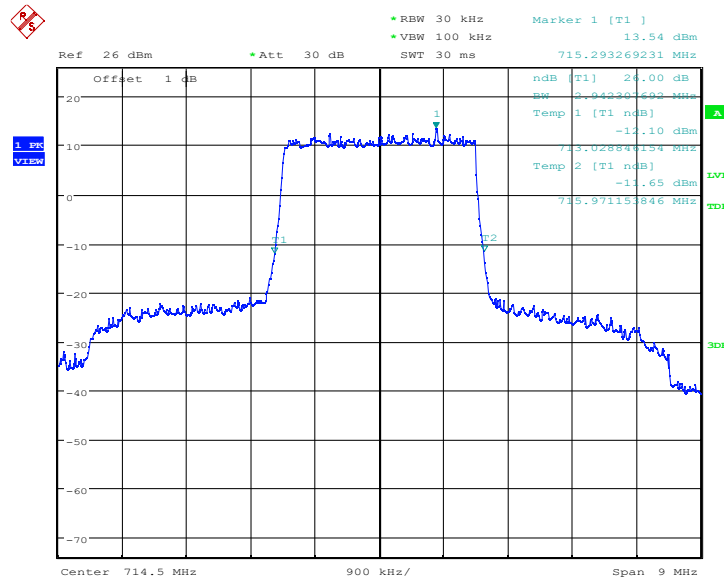
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Date: 26.FEB.2023 09:48:54

LTE band 12 , 3MHz Bandwidth,HIGH,QPSK (-26dBc BW)

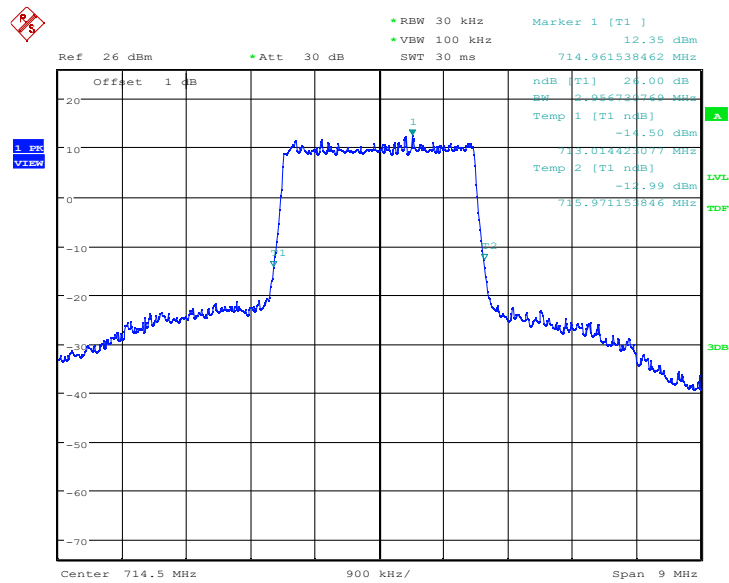


Date: 26.FEB.2023 09:49:22

LTE band 12 , 3MHz Bandwidth,HIGH,16QAM (-26dBc BW)

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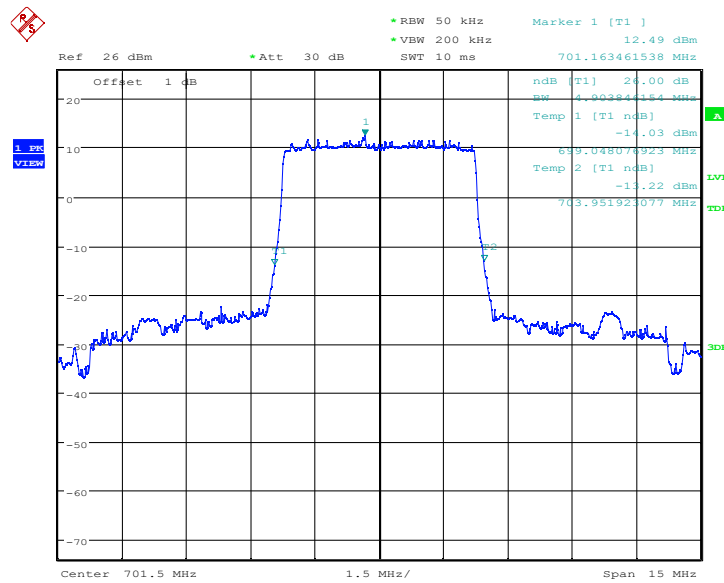


Date: 26.FEB.2023 09:49:48

LTE band 12,5MHz(-26dBc)

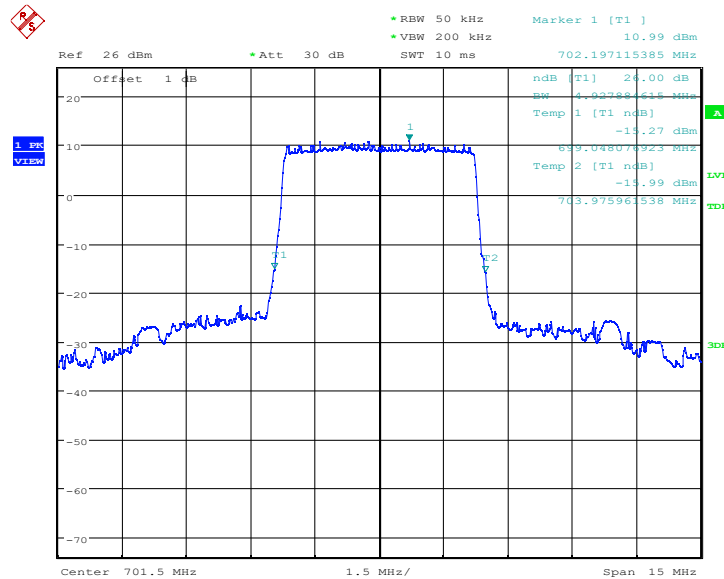
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
701.5	4.904	4.928
707.5	4.976	4.928
713.5	4.976	4.976

LTE band 12 , 5MHz Bandwidth,LOW,QPSK (-26dBc BW)



Date: 26.FEB.2023 09:51:01

LTE band 12 , 5MHz Bandwidth,LOW,16QAM (-26dBc BW)

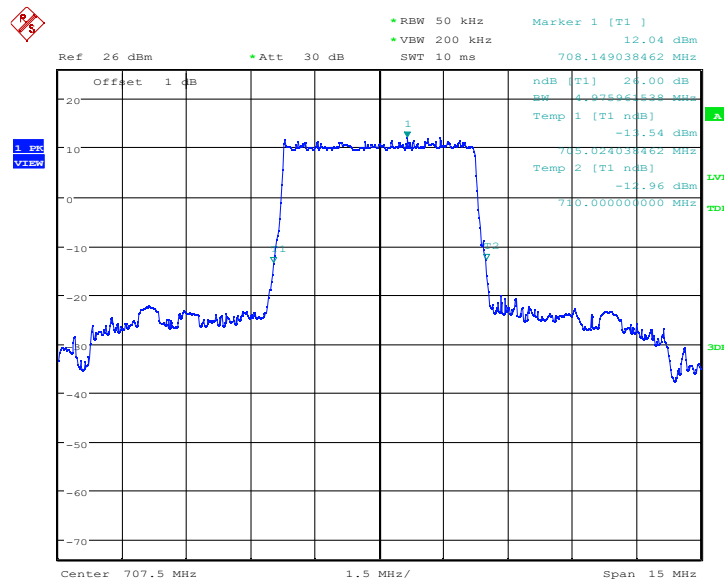


Date: 26.FEB.2023 09:51:27

LTE band 12 , 5MHz Bandwidth,MID,QPSK (-26dBc BW)

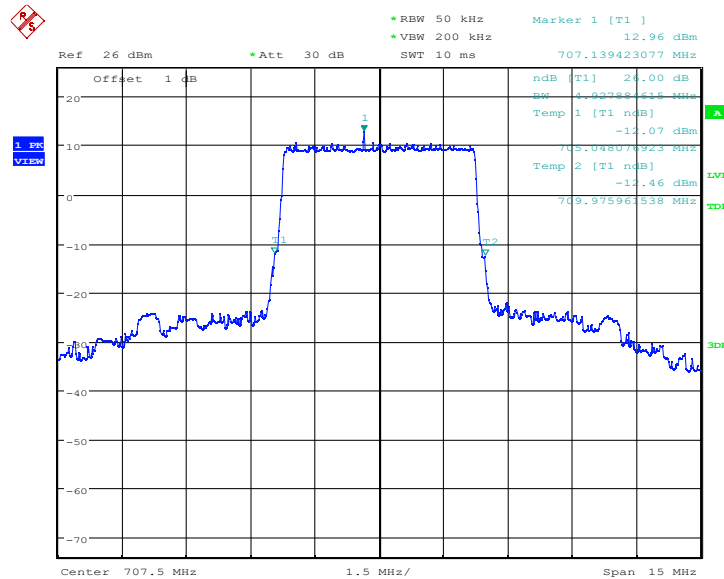
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Date: 26.FEB.2023 09:51:53

LTE band 12 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)

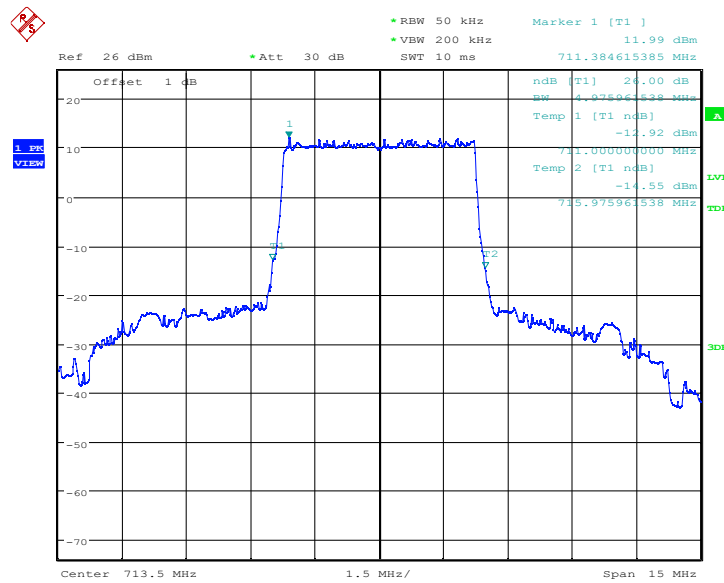


Date: 26.FEB.2023 09:52:18

LTE band 12 , 5MHz Bandwidth,HIGH,QPSK (-26dBc BW)

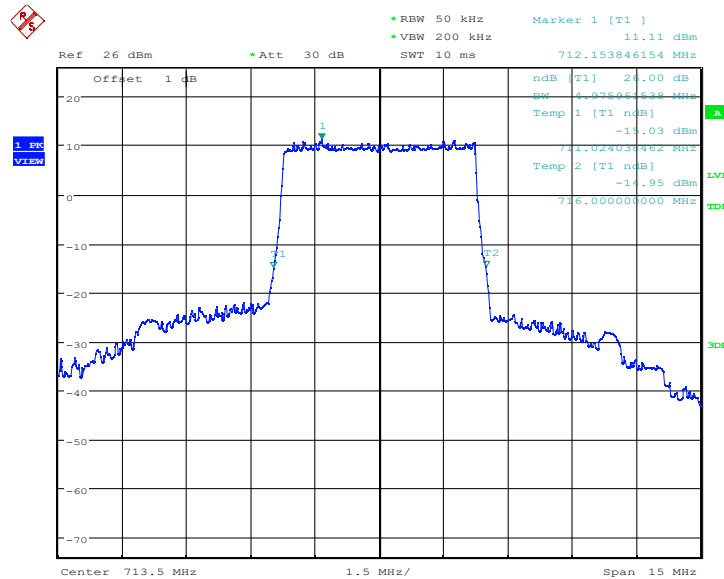
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Date: 26.FEB.2023 09:52:44

LTE band 12 , 5MHz Bandwidth,HIGH,16QAM (-26dBc BW)



Date: 26.FEB.2023 09:53:05

LTE band 12,10MHz(-26dBc)

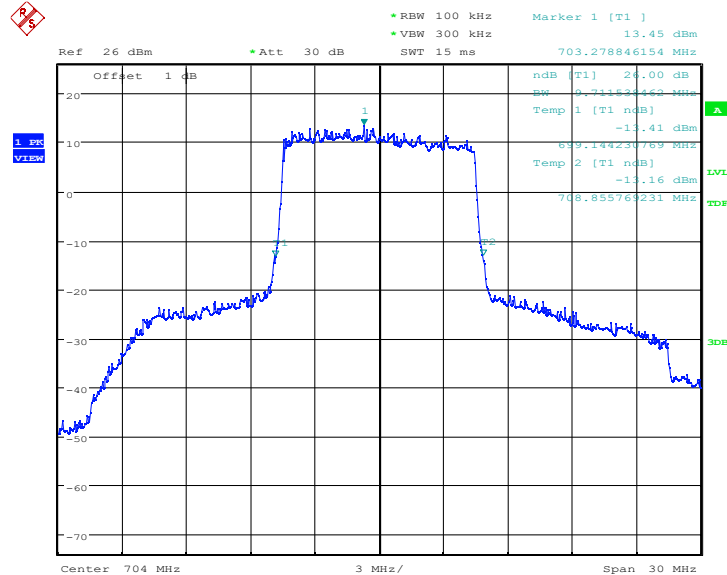
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
	QPSK

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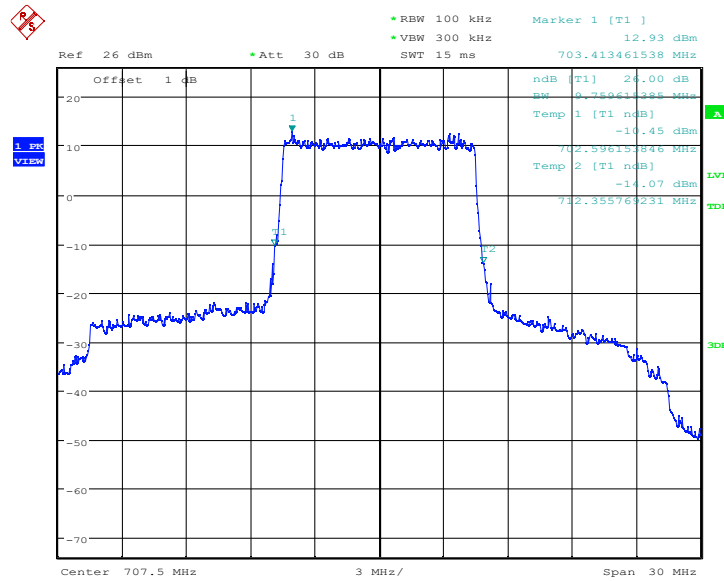
704	9.712
707.5	9.760
711	9.712

LTE band 12 , 10MHz Bandwidth,LOW,QPSK (-26dBc BW)



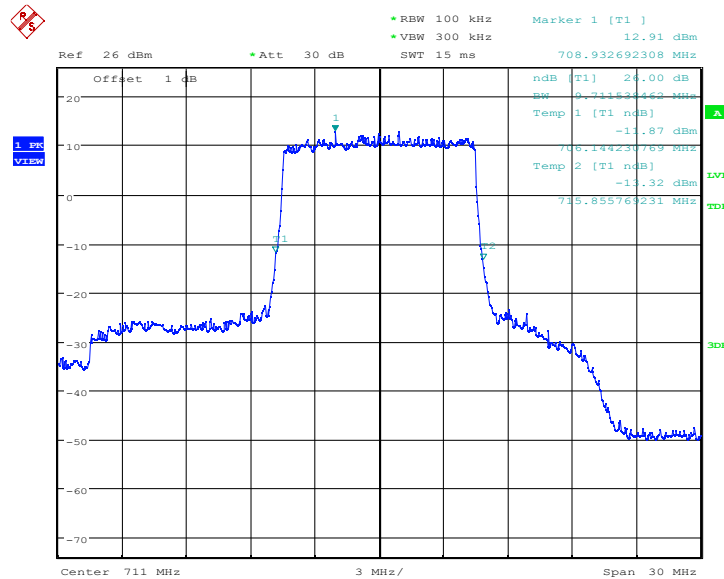
Date: 26.FEB.2023 09:54:18

LTE band 12 , 10MHz Bandwidth,MID,QPSK (-26dBc BW)



Date: 26.FEB.2023 09:54:44

LTE band 12 , 10MHz Bandwidth,HIGH,QPSK (-26dBc BW)



Date: 26.FEB.2023 09:55:11

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6.5. Conducted spurious emissions

Specifications:	FCC Part 2.1051,2.1053, 24.238,27.53
DUT Serial Number:	IMEI:861475037109388
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 24.238:The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to Part 27.53(h):

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 Bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to Part 27.53(g):For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	1.74 dB (k=2)

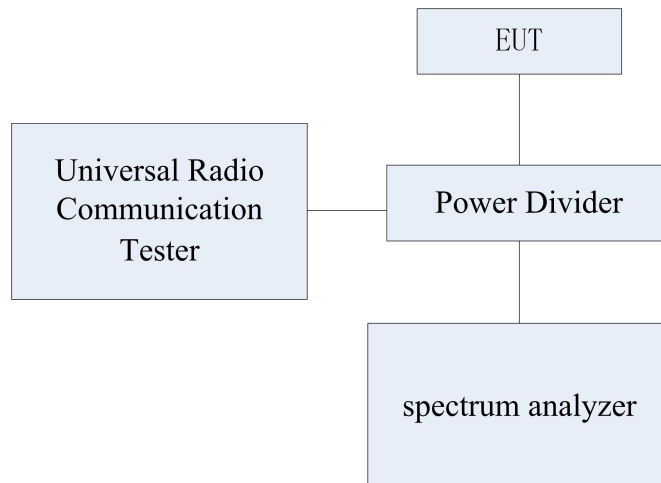
Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.

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**Test Method:**

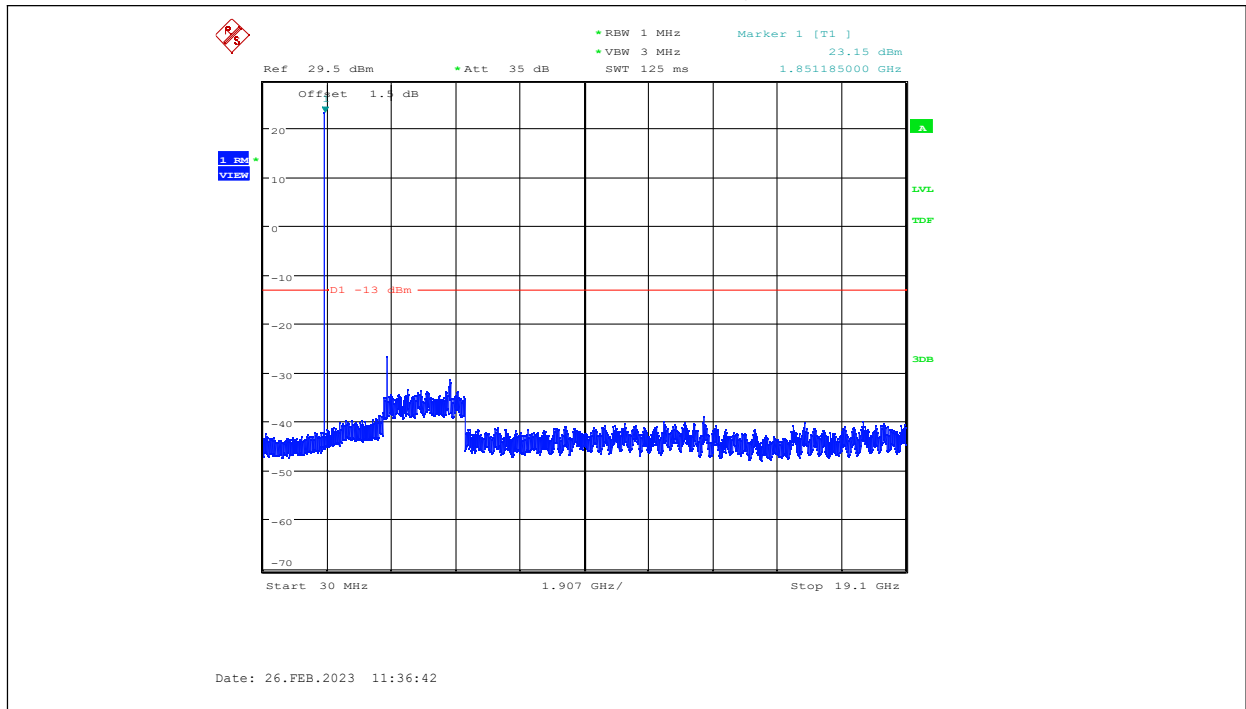
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-Band emissions, if any, up to 10th harmonic. The EUT was scanned for spurious emissions from 30MHz to 20GHz with sufficient Bandwidth and video resolution. The spectrum analyzer was set to Maximum hold mode to ensure that the worst-case emissions were captured.

Note: The following test results are the worst case selected in each bandwidth of each frequency band.

6.5.1 Conducted Spurious Emission Results

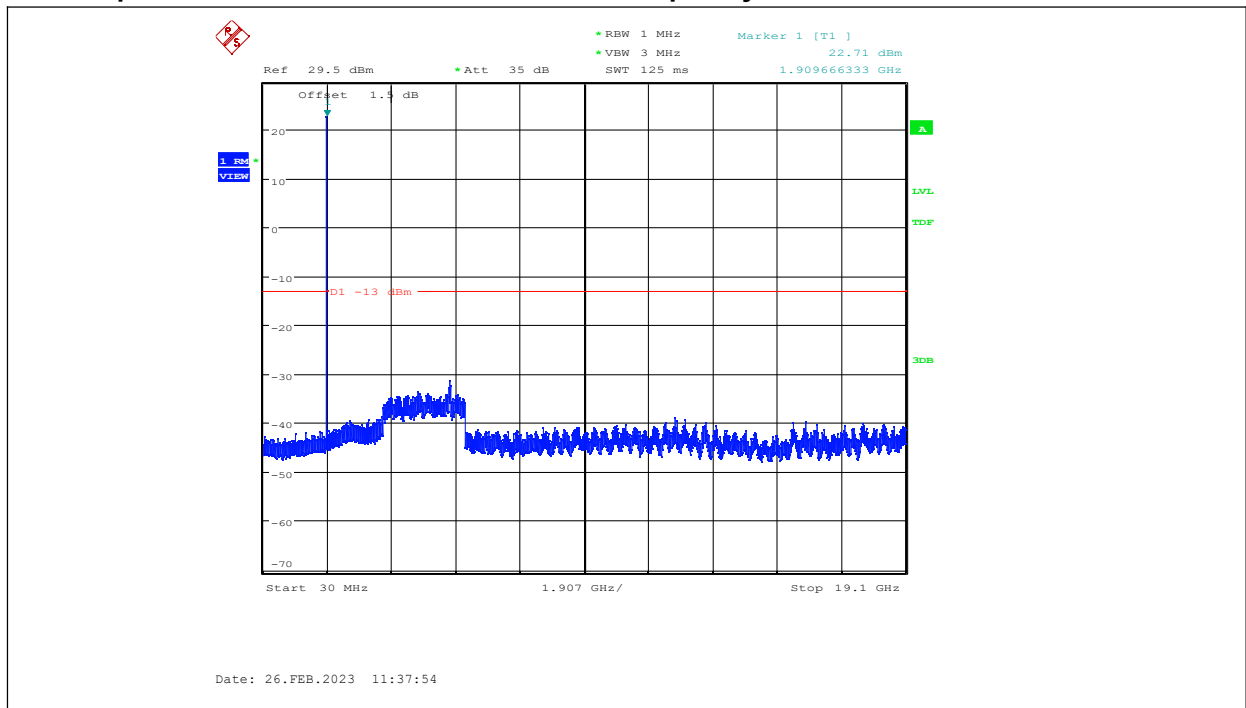
LTE band 2-1.4MHz-QPSK-LOW-1RB

NOTE: peak above the limit line is the carrier frequency.



LTE band 2-3MHz-16QAM-HIGH-50% RB

NOTE: peak above the limit line is the carrier frequency.

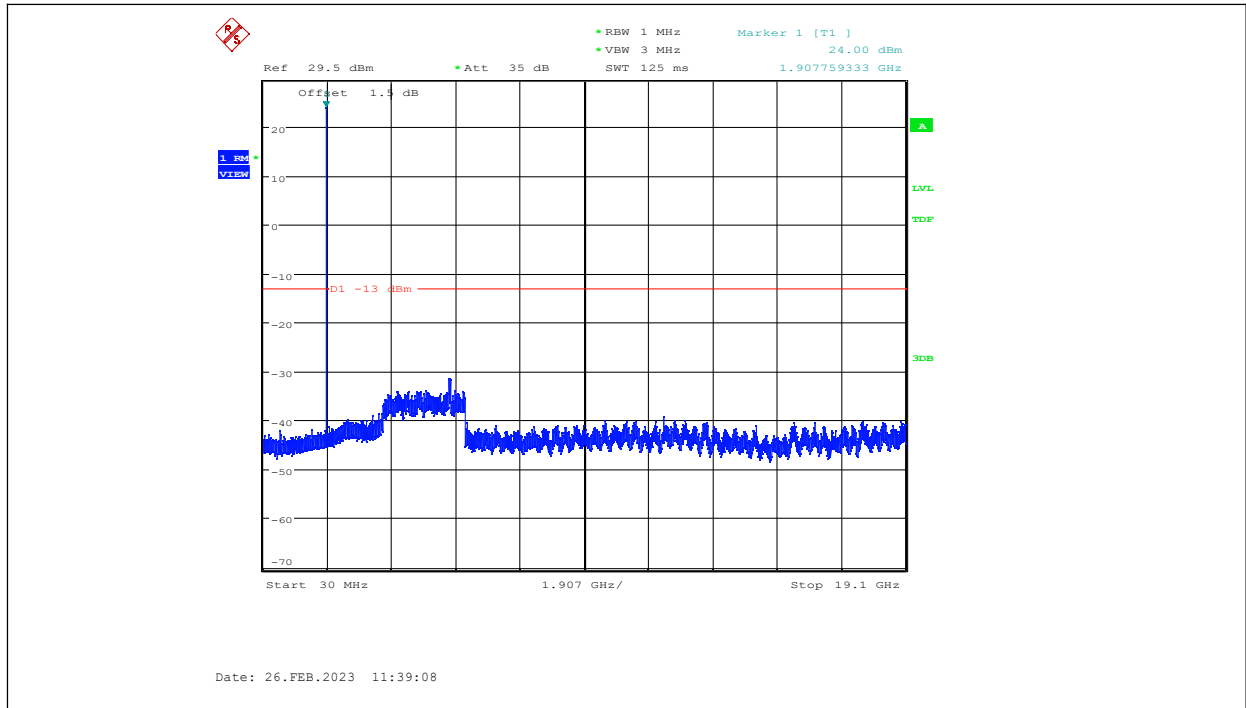


LTE band 2-5MHz-QPSK-HIGH-1RB

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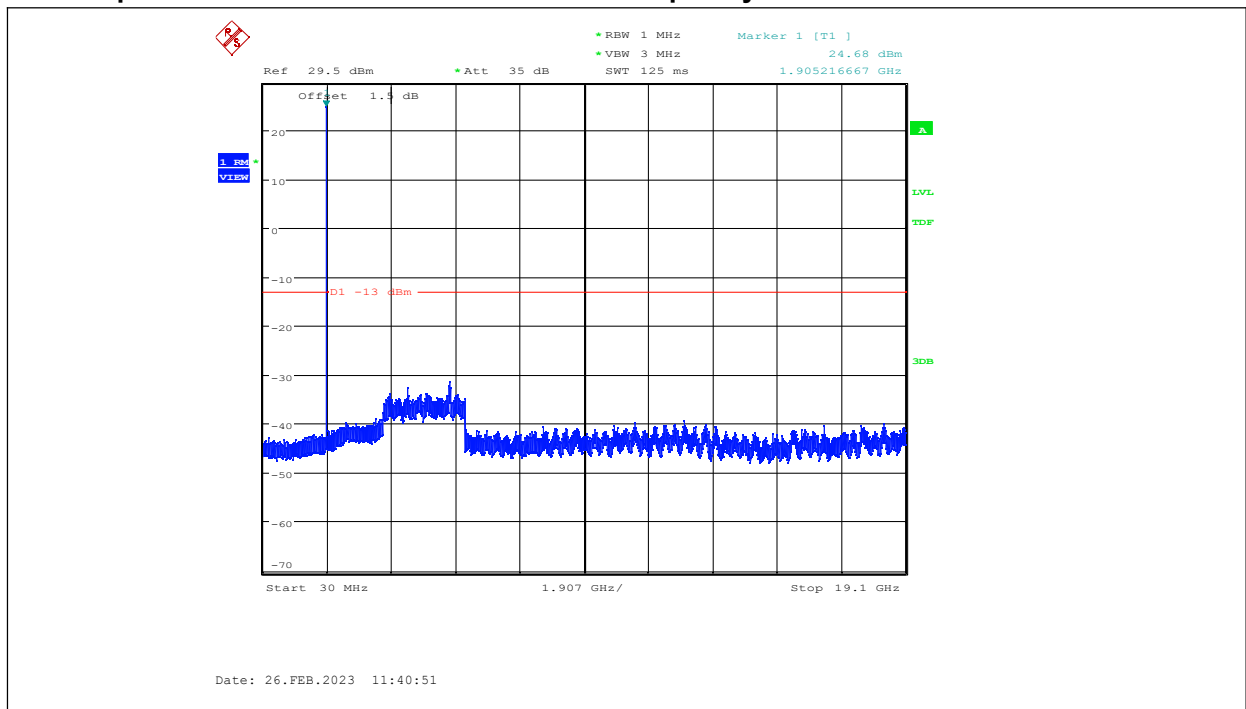
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NOTE: peak above the limit line is the carrier frequency.



LTE band 2-10MHz-QPSK-HIGH-1RB

NOTE: peak above the limit line is the carrier frequency.

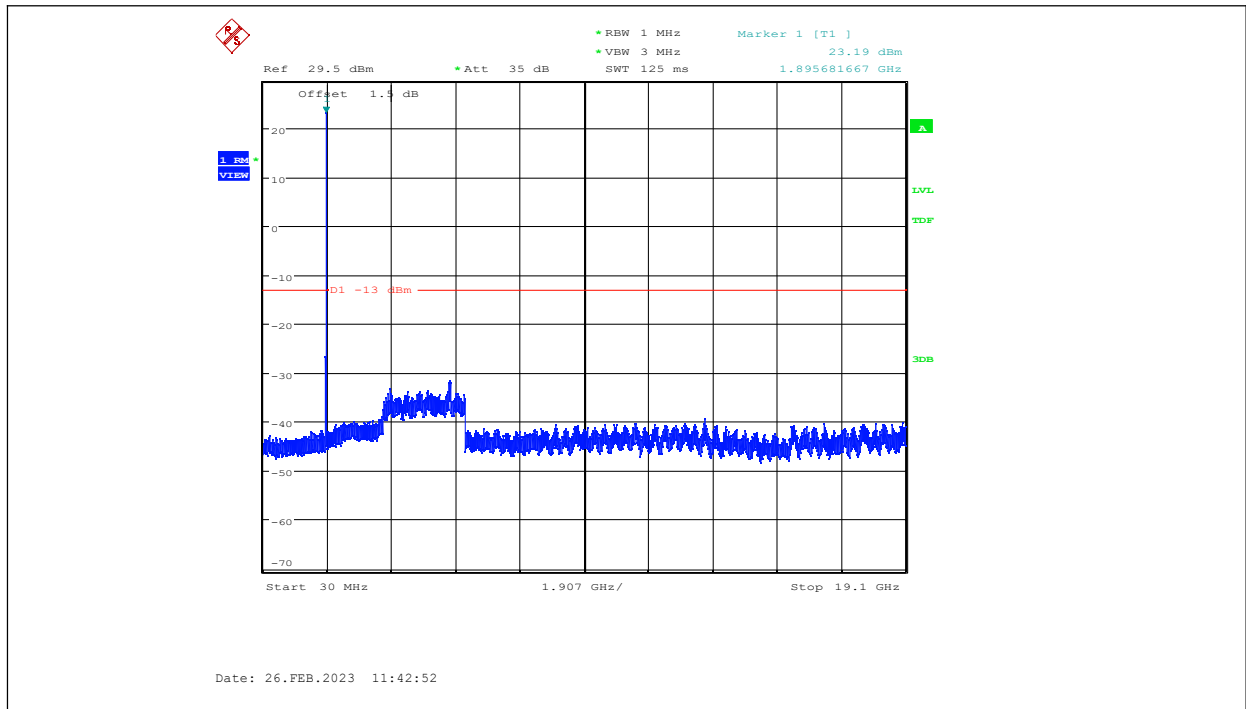


LTE band 2-15MHz-QPSK-HIGH-1RB

NOTE: peak above the limit line is the carrier frequency.

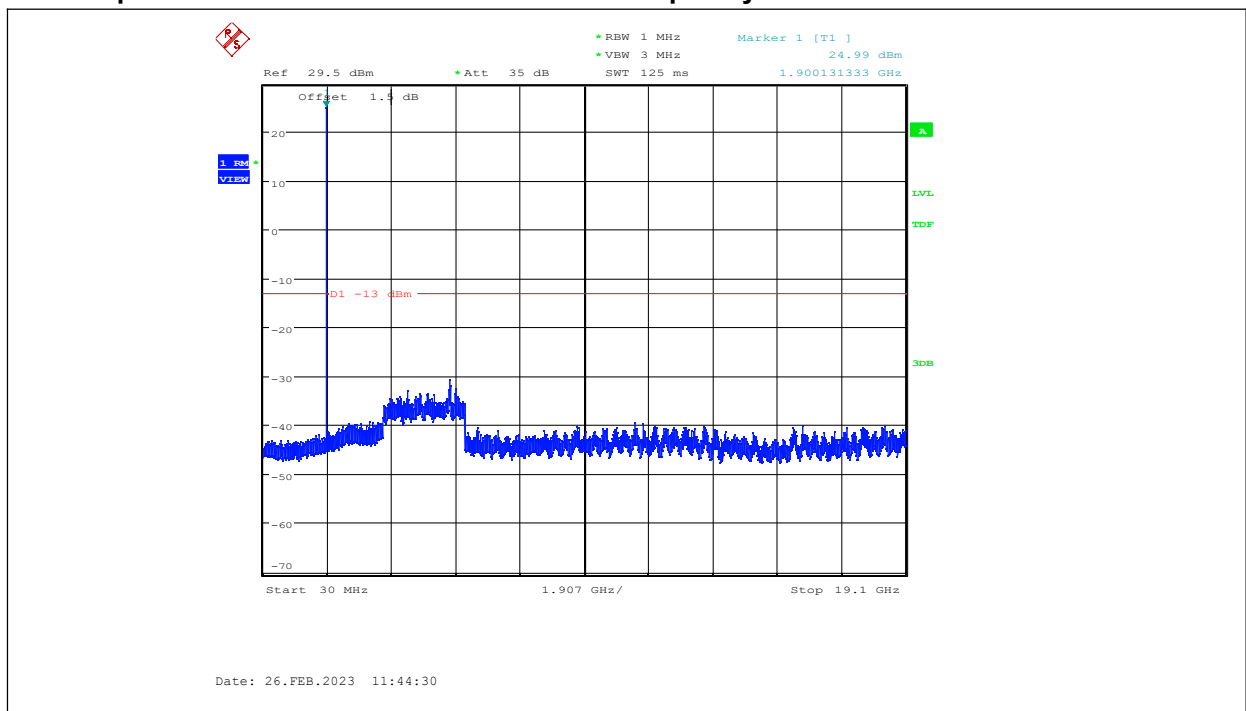
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LTE band 2-20MHz-QPSK-HIGH-1RB

NOTE: peak above the limit line is the carrier frequency.

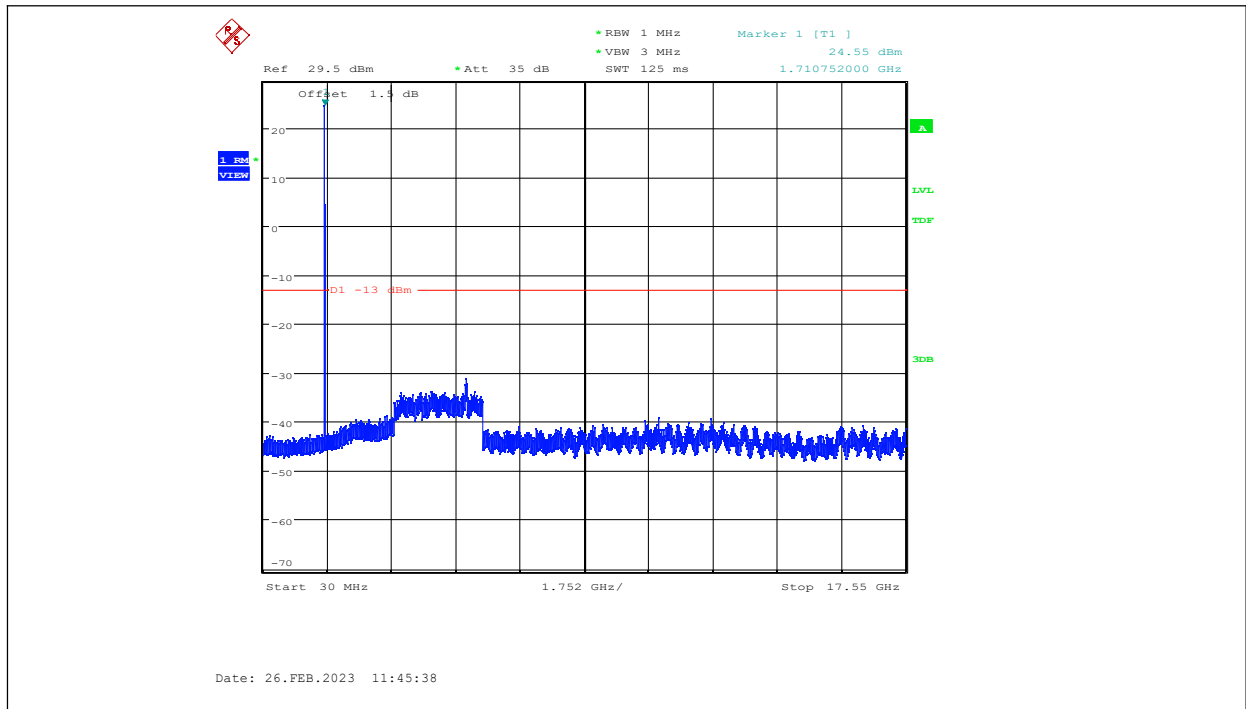


LTE band 4-1.4MHz-QPSK-LOW-1RB

NOTE: peak above the limit line is the carrier frequency.

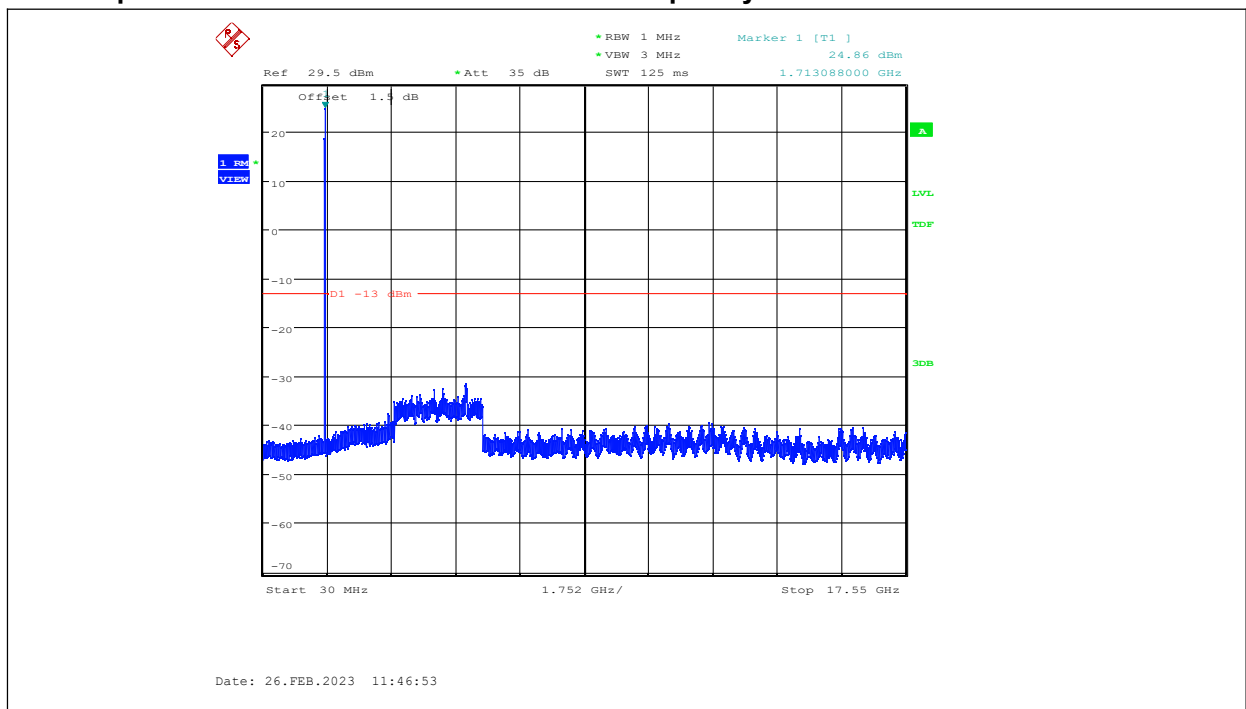
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LTE band 4-3MHz-QPSK-LOW-1RB

NOTE: peak above the limit line is the carrier frequency.

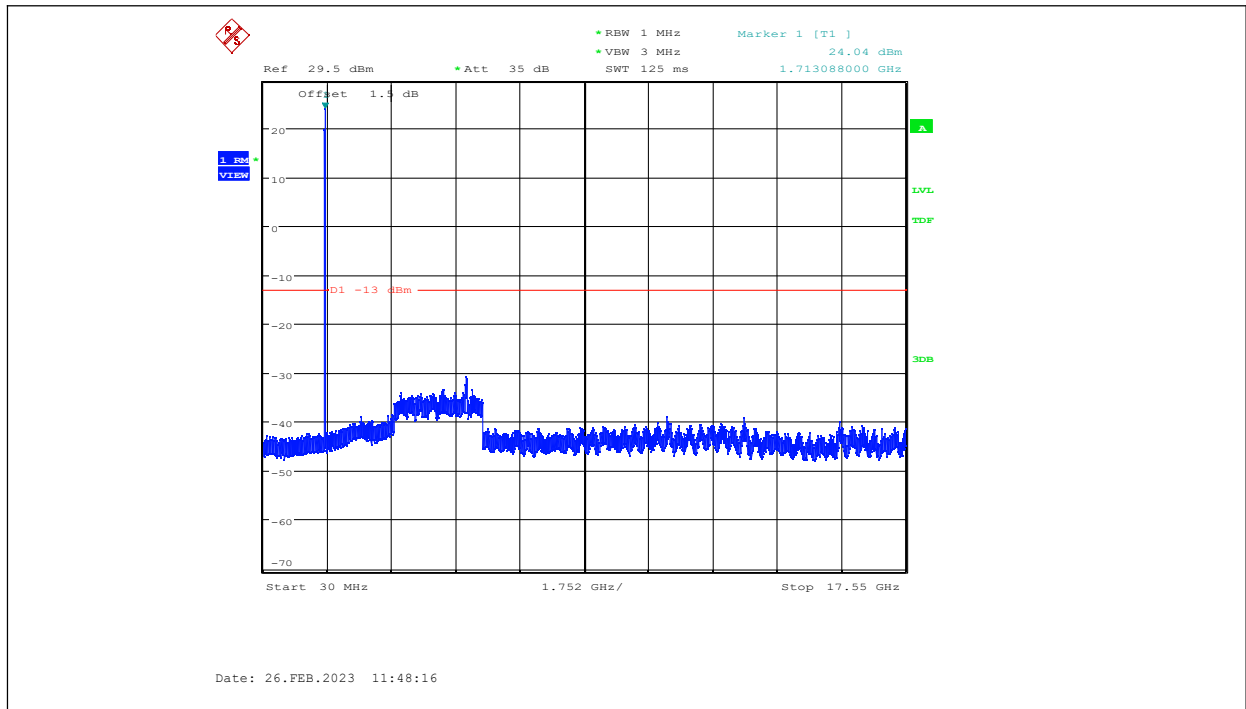


LTE band 4-5MHz-QPSK-LOW-1RB

NOTE: peak above the limit line is the carrier frequency.

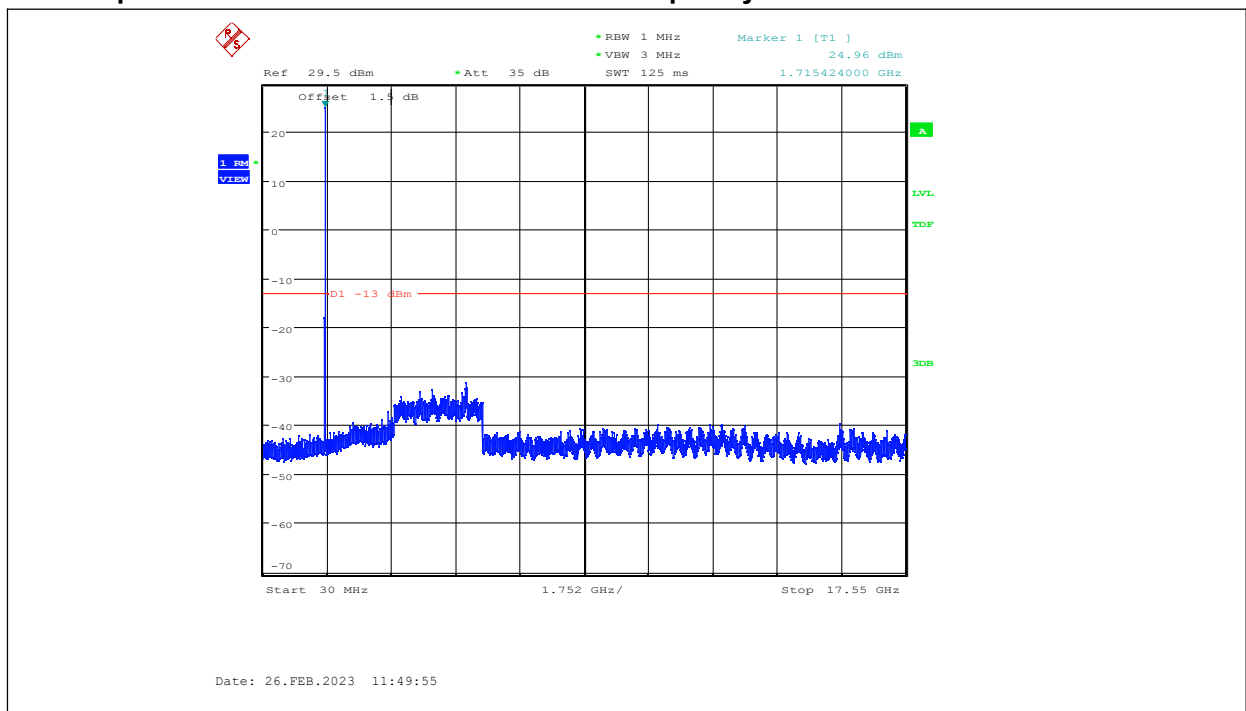
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LTE band 4-10MHz-QPSK-LOW-1RB

NOTE: peak above the limit line is the carrier frequency.

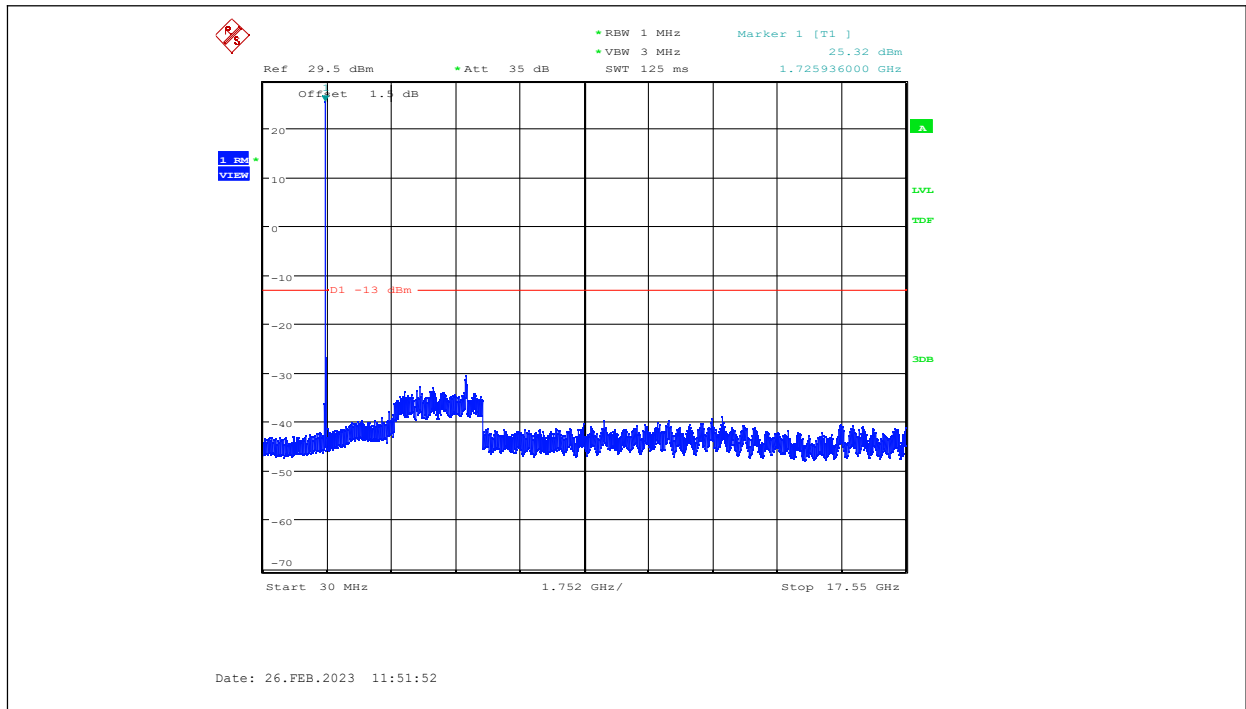


LTE band 4-15MHz-QPSK-MID-1RB

NOTE: peak above the limit line is the carrier frequency.

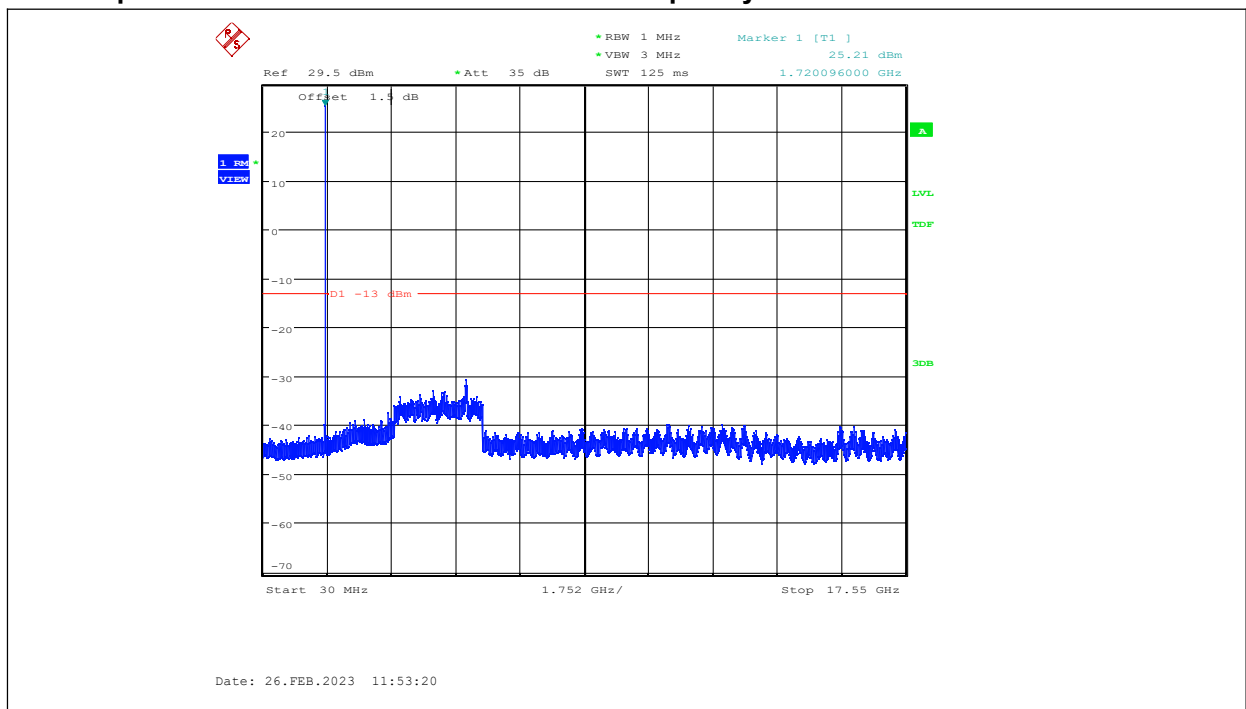
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LTE band 4-20MHz-QPSK-LOW-1RB

NOTE: peak above the limit line is the carrier frequency.

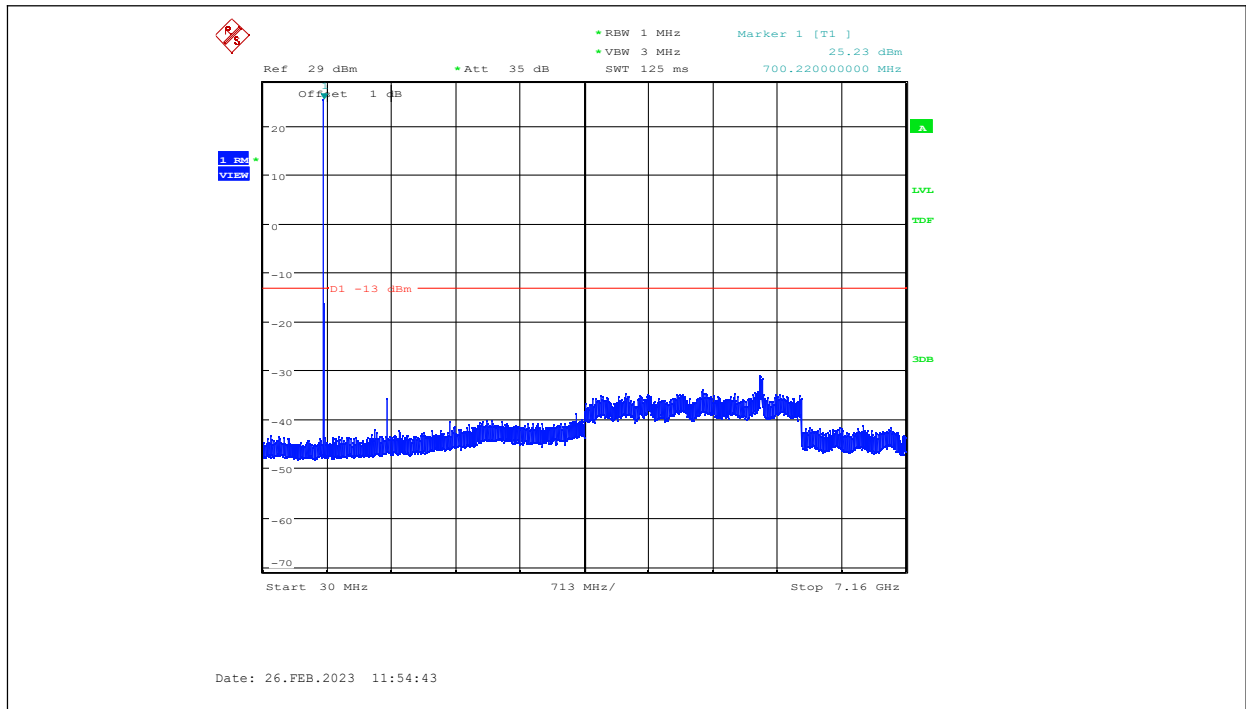


LTE band 12-1.4MHz-QPSK-LOW-1RB

NOTE: peak above the limit line is the carrier frequency.

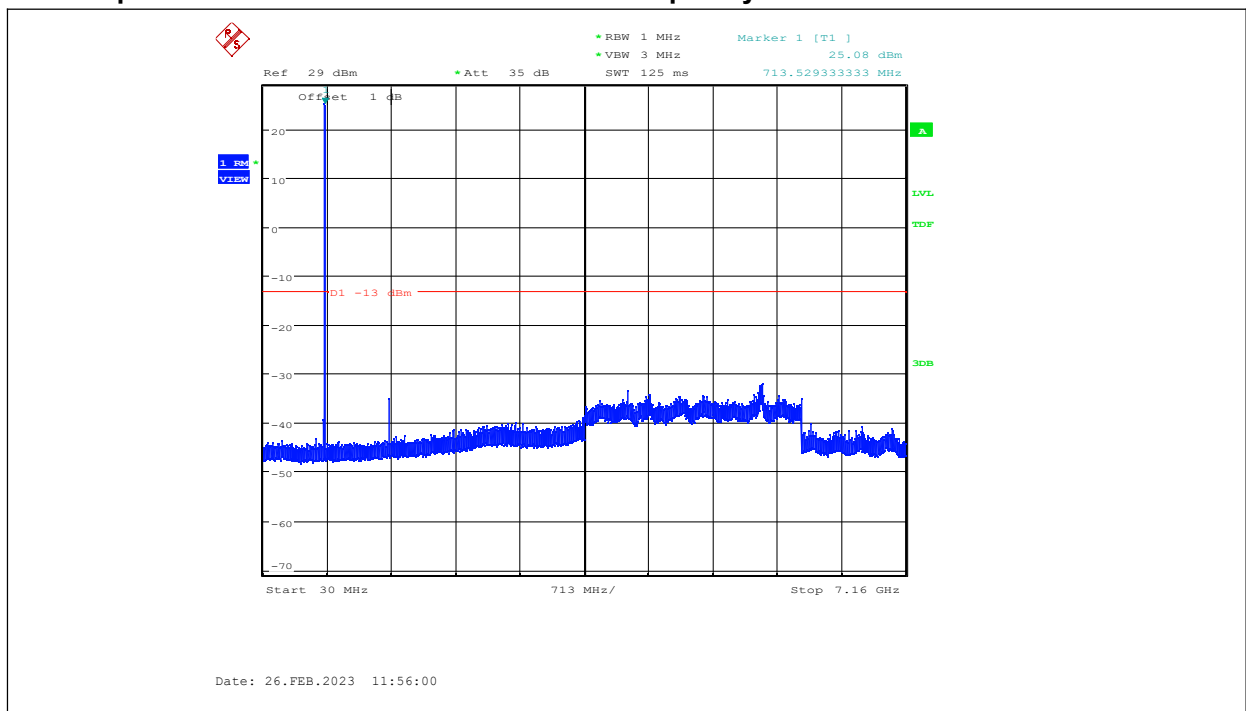
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LTE band 12-3MHz-16QAM-HIGH-50%RB

NOTE: peak above the limit line is the carrier frequency.

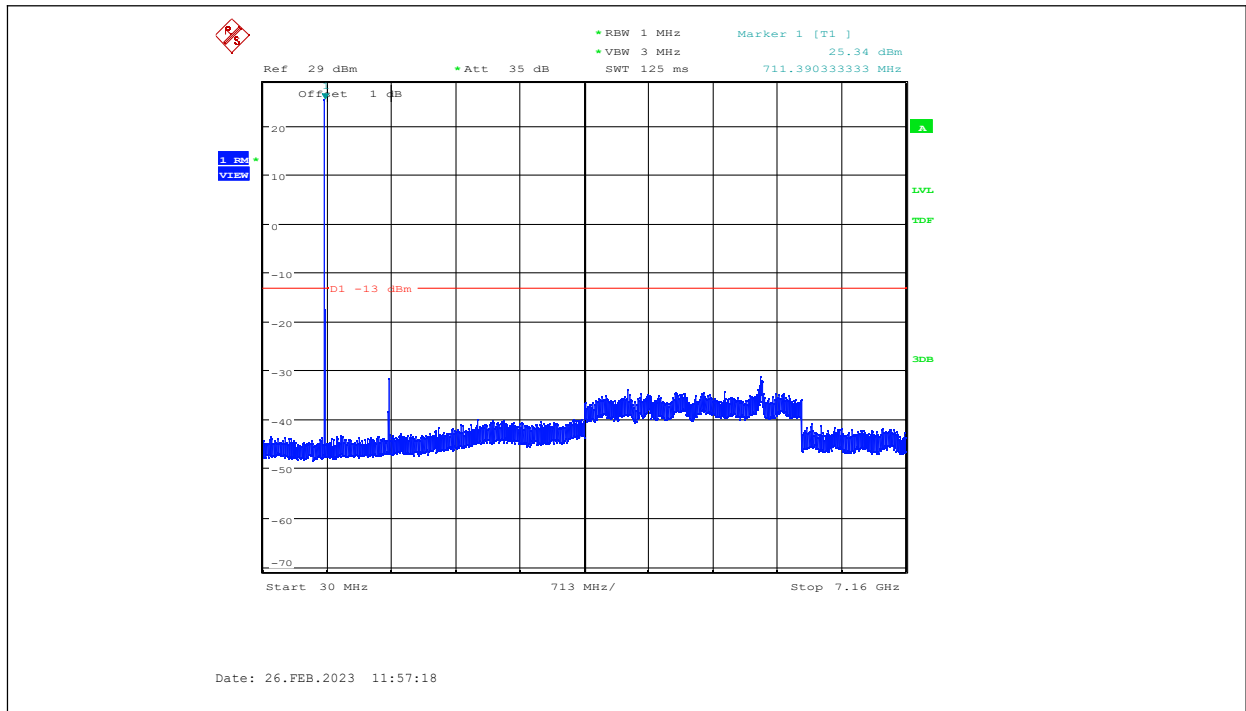


LTE band 12-5MHz-QPSK-HIGH-1RB

NOTE: peak above the limit line is the carrier frequency.

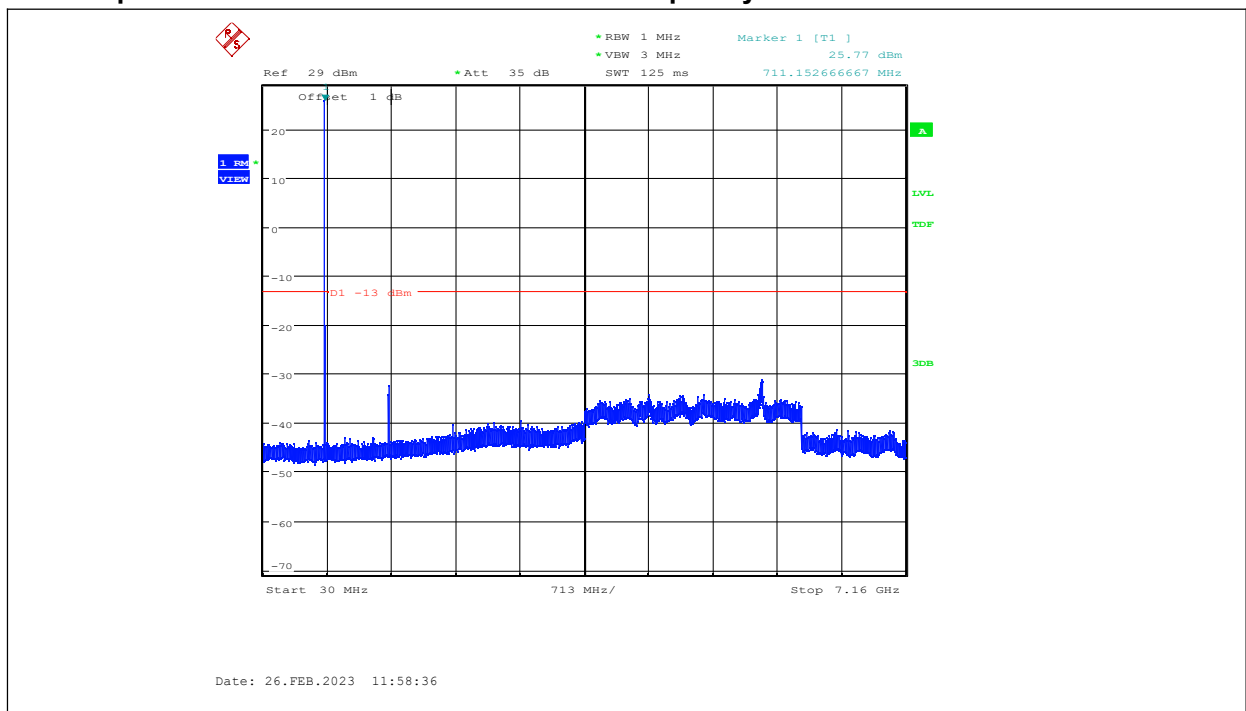
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LTE band 12-10MHz-QPSK-HIGH-1RB

NOTE: peak above the limit line is the carrier frequency.



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6.6. Radiated Spurious Emission

Specifications:	FCC Part 24.238,27.53
DUT Serial Number:	IMEI:861475037108778
Test conditions:	Ambient Temperature:22.4°C Relative Humidity:53% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 24.238:The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to Part 27.53(h):

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 Bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to Part 27.53(g):For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Limits for Radiated spurious emissions(UE)	
Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty (30MHz-150MHz)	3.82 dB (k=2)
Expanded Uncertainty (150MHz-1GHz)	3.97dB (k=2)
Expanded Uncertainty (1GHz-3GHz)	3.09dB (k=2)
Expanded Uncertainty (3GHz-6GHz)	3.29dB (k=2)

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Expanded Uncertainty (3GHz-20GHz)	3.91dB (k=2)
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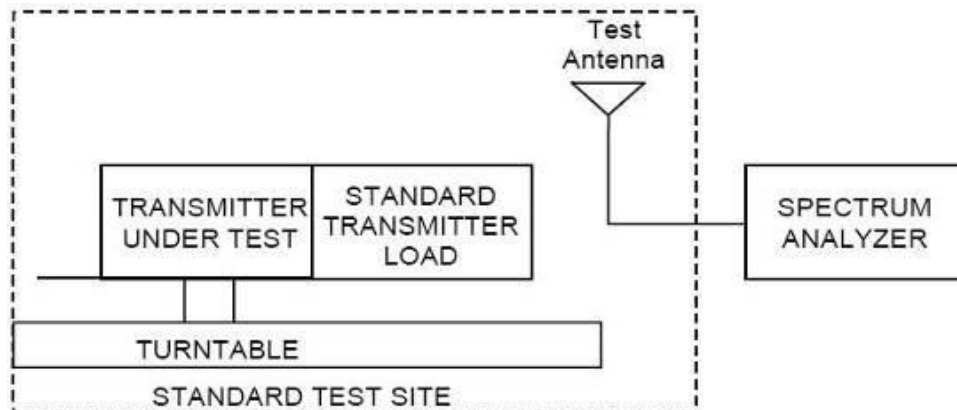
Test Setup:

The EUT was placed in an anechoic chamber. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

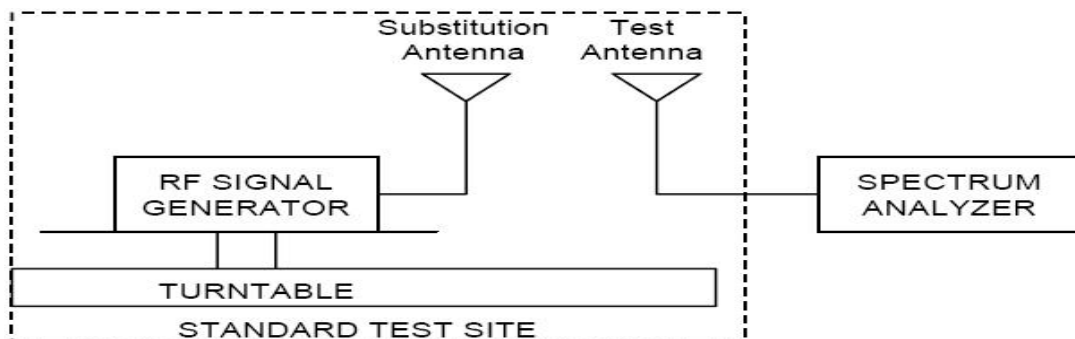
Test Method:

The measurement method is substitution method accordance with section 2.2.12 of ANSI/TIA-603-E: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

(a) Connect the equipment as illustrated and measure the spurious emissions as the method as above. The distance from the device to the antenna is 3 m .



(b) Reconnect the equipment as illustrated.



(c) Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna should be approximately at the same location as the center of the transmitter.

(d) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

(e) Repeat step d) with both antennas vertically polarized for each spurious frequency.

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(f) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps d) and e) by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:

$$P_d(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{Antenna Gain (dB)}$$

where:

P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

6.6.1 LTE Radiated Spurious Emission Results

Test frequency: 30MHz-20GHz

All modes were tested,only the worst case of each band was reported.

LTE B2 Radiated Spurious Emission Results

Test Data (20MHz bandwidth QPSK Mode CH18700)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
115.512000	-68.50	0.2	2.1	-66.60	V
183.678000	-77.00	0.3	5.6	-71.70	H
2200.000000	-65.09	1.2	9.0	-57.29	H
9196.000000	-69.23	3.2	11.3	-61.13	V
10449.500000	-67.03	3.5	10.8	-59.73	V
11520.000000	-68.28	3.6	11.3	-60.58	V

Test Data (20MHz bandwidth QPSK Mode CH18900)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
120.006000	-69.89	0.3	2.1	-68.09	V
186.198000	-77.78	0.3	5.8	-72.28	V
2202.800000	-65.23	1.2	9.0	-57.43	H
9200.500000	-68.24	3.3	11.3	-60.24	V
10878.000000	-66.58	3.3	10.7	-59.18	V
12131.250000	-69.39	3.6	12.7	-60.29	V

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Test Data (20MHz bandwidth QPSK Mode CH19100)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
115.512000	-70.23	0.2	2.1	-68.33	V
168.096000	-79.01	0.3	5.7	-73.61	H
2200.000000	-65.22	1.2	9.0	-57.42	H
9197.000000	-69.21	3.2	11.3	-61.11	V
10449.500000	-67.02	3.5	10.8	-59.72	V
11682.500000	-69.43	3.5	12.1	-60.83	V

LTE B4 Radiated Spurious Emission Results
Test Data (10M bandwidth QPSK Mode CH20000)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
125.004000	-78.45	0.3	2.1	-76.65	V
167.508000	-83.90	0.3	5.7	-78.50	H
2201.200000	-65.11	1.2	9.0	-57.31	H
5145.000000	-76.63	2.0	12.6	-66.03	H
9206.000000	-68.84	3.3	11.3	-60.84	V
10450.000000	-67.03	3.5	10.8	-59.73	V

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LTE B4 Radiated Spurious Emission Results

Test Data (10M bandwidth QPSK Mode CH20175)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
115.260000	-70.06	0.2	2.1	-68.16	V
165.996000	-78.34	0.3	5.7	-72.94	V
2201.200000	-65.16	1.2	9.0	-57.36	H
9193.000000	-69.25	3.2	11.3	-61.15	V
10446.000000	-67.18	3.5	10.8	-59.88	V
11308.000000	-68.60	3.3	11.4	-60.50	V

LTE B4 Radiated Spurious Emission Results

Test Data (10M bandwidth QPSK Mode CH20350)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
120.342000	-76.92	0.3	2.1	-75.12	V
165.660000	-80.16	0.3	5.7	-74.76	V
2200.000000	-65.12	1.2	9.0	-57.32	H
5248.548387	-68.36	2.1	9.46	-61.00	H
9201.500000	-68.96	3.3	11.3	-60.96	V
10450.000000	-67.03	3.5	10.8	-59.73	V

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LTE B12 Radiated Spurious Emission Results

Test Data (3M bandwidth 16QAM Mode CH23025)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
119.418000	-69.91	0.3	2.1	-68.11	V
166.878000	-79.00	0.3	5.7	-73.60	V
1403.600000	-65.04	0.9	7.1	-58.84	V
9196.000000	-69.21	3.2	11.3	-61.11	V
10452.500000	-67.00	3.5	10.8	-59.70	V
11520.000000	-68.20	3.6	11.3	-60.50	V

Test Data (3M bandwidth 16QAM Mode CH23095)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
120.972000	-65.20	0.3	2.1	-63.40	V
168.474000	-74.60	0.3	5.8	-69.10	H
1414.800000	-60.48	0.9	7.1	-54.28	V
3536.612903	-79.37	1.6	12.1	-68.87	V
9195.000000	-69.43	3.1	11.3	-61.23	V
10449.000000	-66.99	3.5	10.8	-59.69	V

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Test Data (3M bandwidth 16QAM Mode CH23165)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
116.436000	-70.06	0.2	2.1	-68.16	V
167.046000	-79.60	0.3	5.8	-74.10	V
1429.200000	-64.53	0.9	7.2	-58.23	V
9200.500000	-68.90	3.3	11.3	-60.90	V
10449.500000	-67.06	3.5	10.8	-59.76	V
11095.500000	-67.15	4.1	11.0	-60.25	V

6.7. Band Edge

Specifications:	FCC Part 2.1051,2.1053, 24.238,27.53
DUT Serial Number:	IMEI:861475037109388
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 24.238:The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to Part 27.53(h):

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 Bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to Part 27.53(g):For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Measurement Uncertainty:

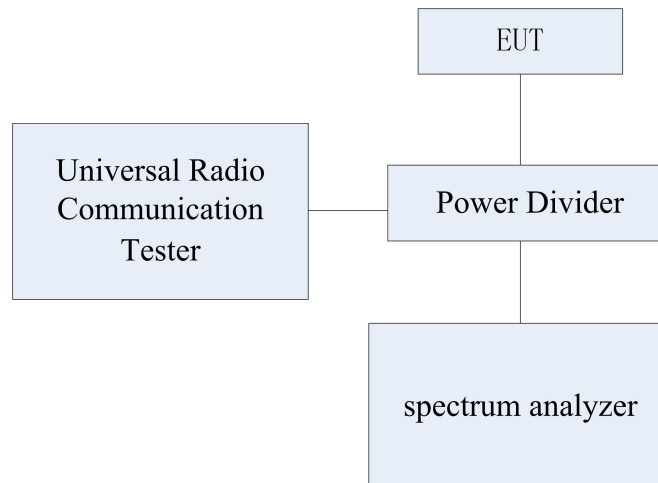
Item	Uncertainty
Expanded Uncertainty	1.28 dB (k=2)

Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.

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**Test Method:**

- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Average Detector function and Maximum hold mode.
- 3) The resolution Bandwidth of the spectrum analyzer was a little greater than 1% of the 26dB emission Bandwidth.

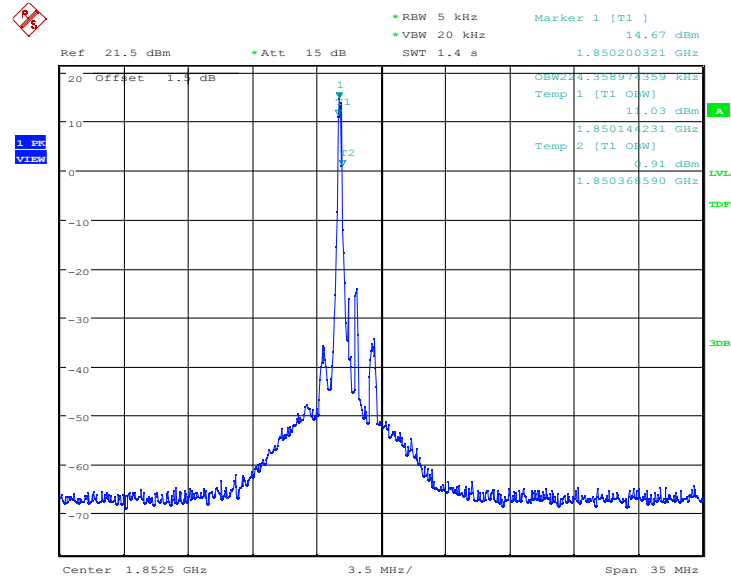
Note1: The Band Edge test data include QPSK and 16QAM. The following test results only reflect the data of the worse mode.

Note2: In this test item, the OBW test data do only use the OBW values to calculate RBW setting for the 1RB band edge test .

6.7.1 Band Edge Results

LTE band 2-1.4MHz

OBW: 1RB-LOW_offset

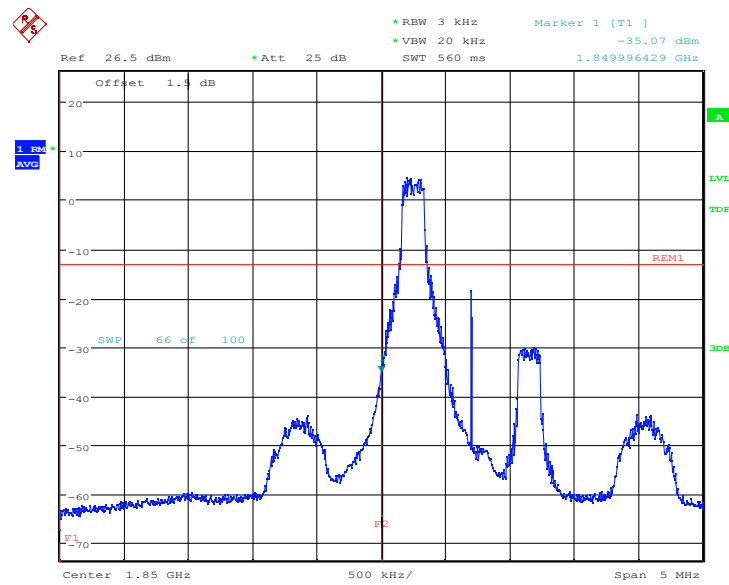


Date: 26.FEB.2023 09:55:49

LOW BAND EDGE BLOCK-1RB-LOW_offset

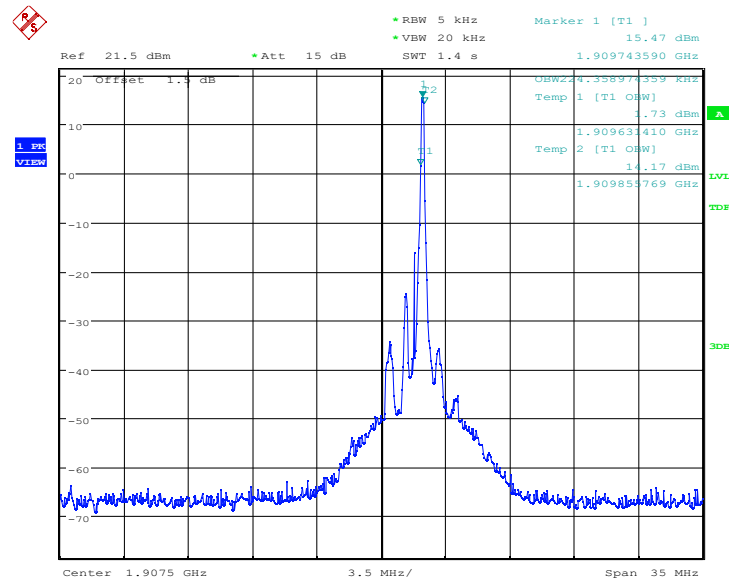
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Date: 26.FEB.2023 09:57:25

OBW: 1RB-HIGH_offset

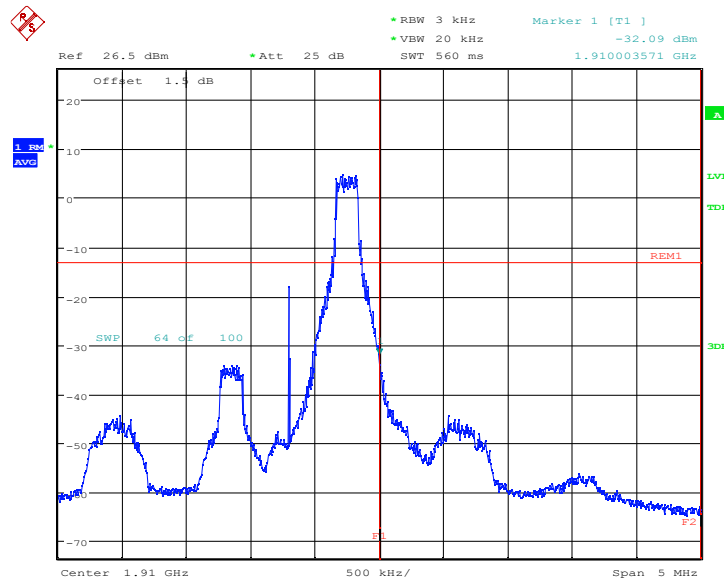


Date: 26.FEB.2023 09:58:41

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

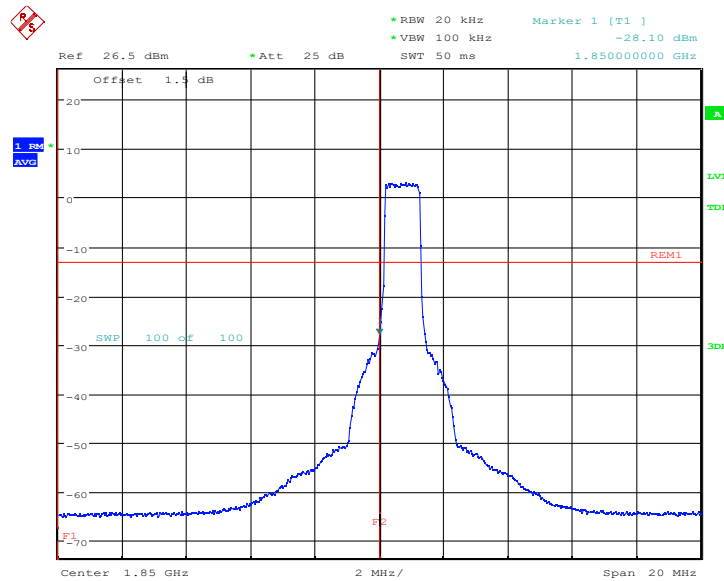
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Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 26.FEB.2023 10:00:18

LOW BAND EDGE BLOCK-1.4M-100%RB

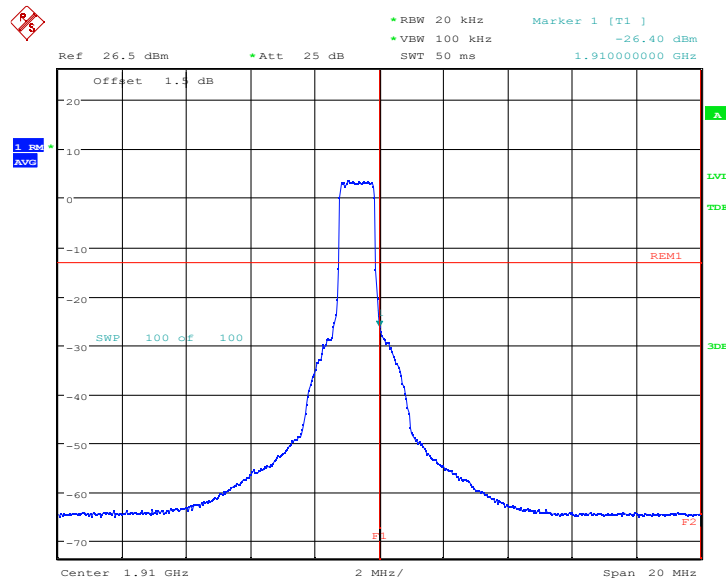


Date: 26.FEB.2023 09:58:14

HIGH BAND EDGE BLOCK-1.4M-100%RB

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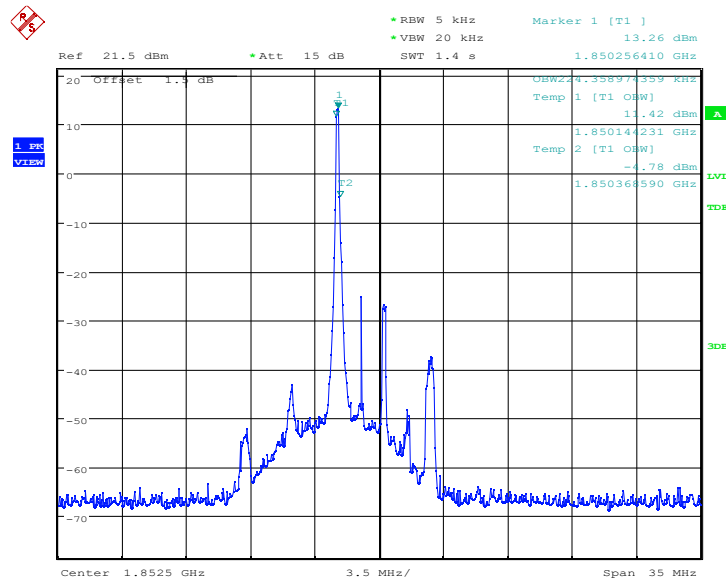
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Date: 26.FEB.2023 10:01:08

LTE band 2-3MHz

OBW: 1RB-LOW_offset

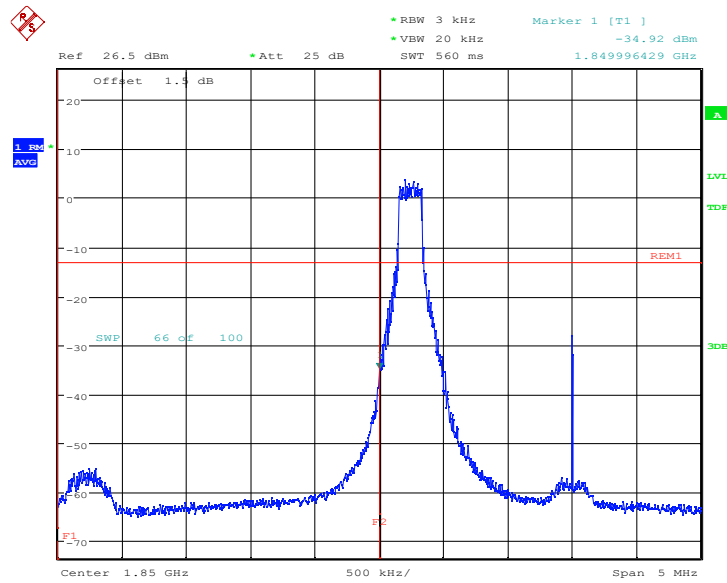


Date: 26.FEB.2023 10:02:17

LOW BAND EDGE BLOCK-1RB-LOW_offset

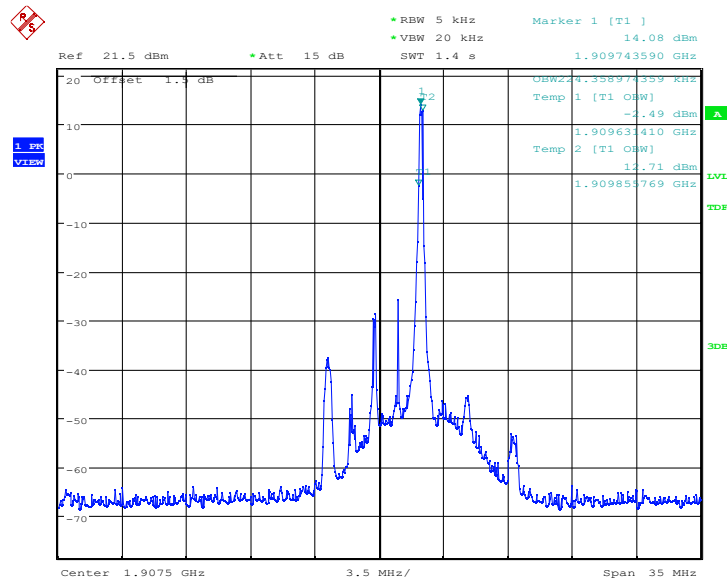
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Date: 26.FEB.2023 10:03:53

OBW: 1RB-HIGH_offset

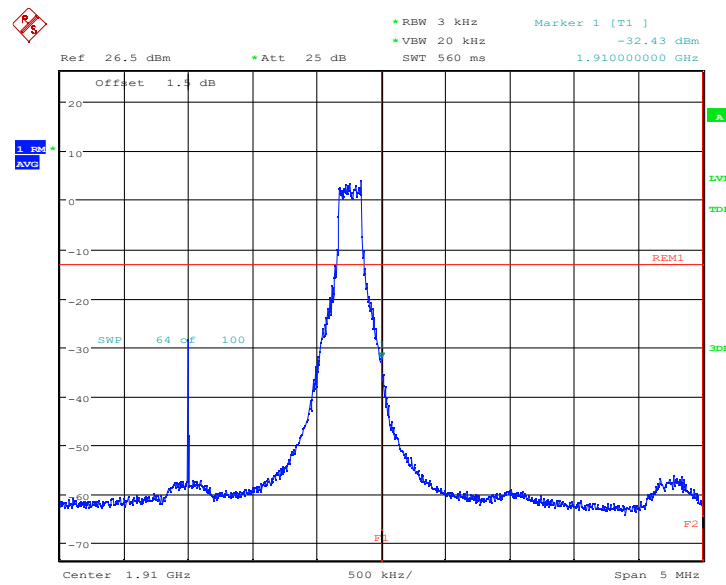


Date: 26.FEB.2023 10:05:06

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

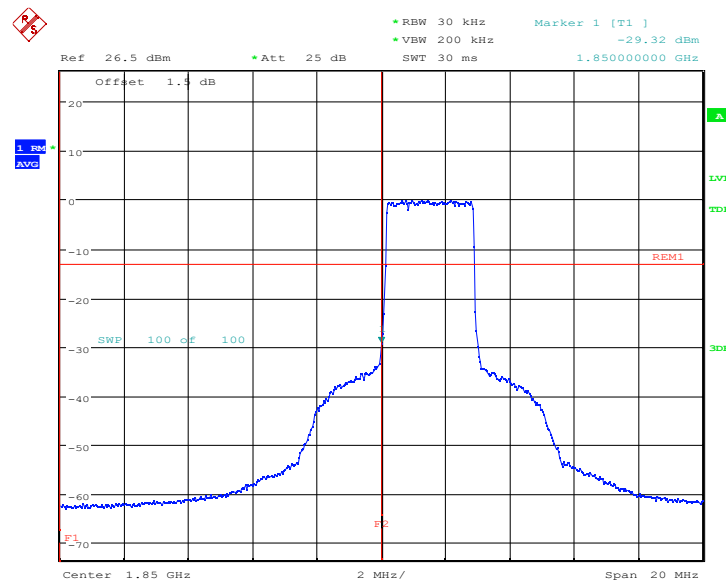
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Date: 26.FEB.2023 10:06:44

LOW BAND EDGE BLOCK-3M-100%RB

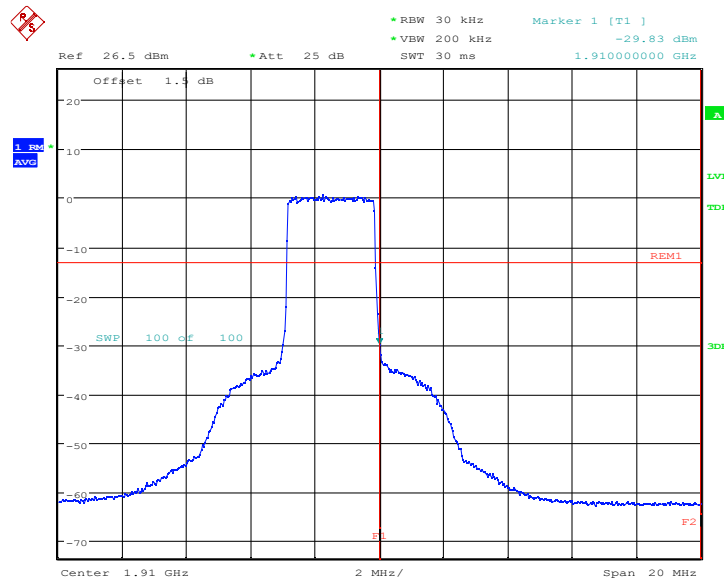


Date: 26.FEB.2023 10:04:40

HIGH BAND EDGE BLOCK-3M-100%RB

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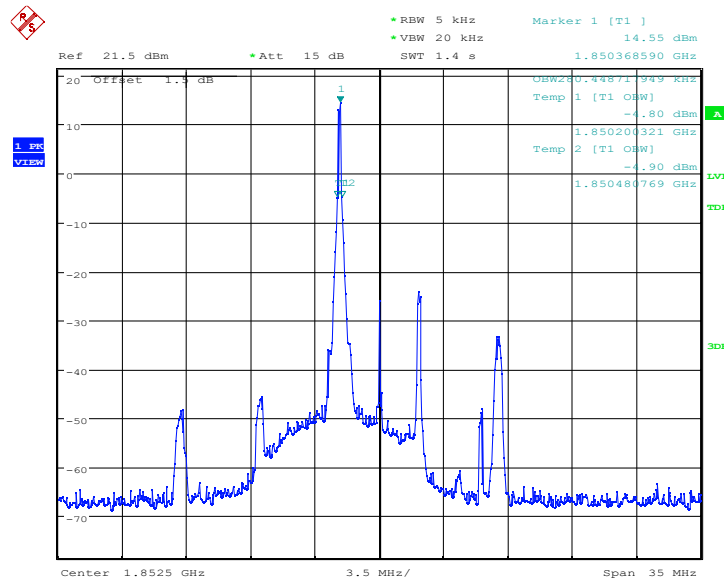
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Date: 26.FEB.2023 10:07:32

LTE band 2-5MHz

OBW: 1RB-LOW_offset

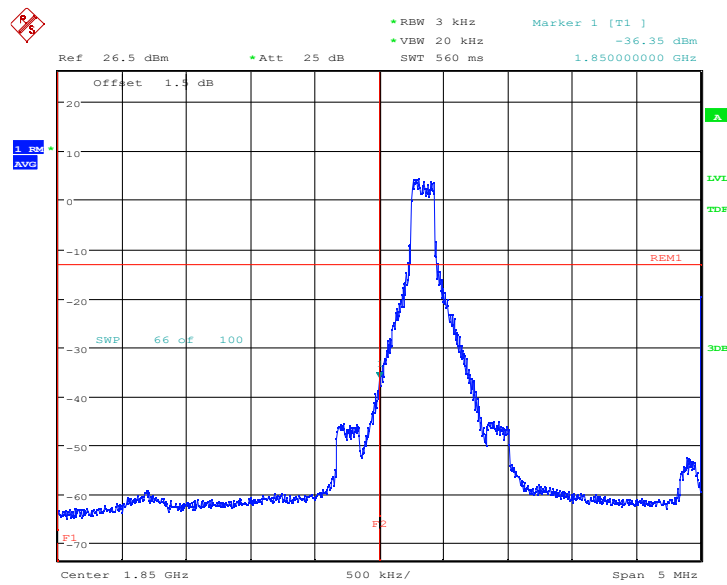


Date: 26.FEB.2023 10:08:38

LOW BAND EDGE BLOCK-1RB-LOW_offset

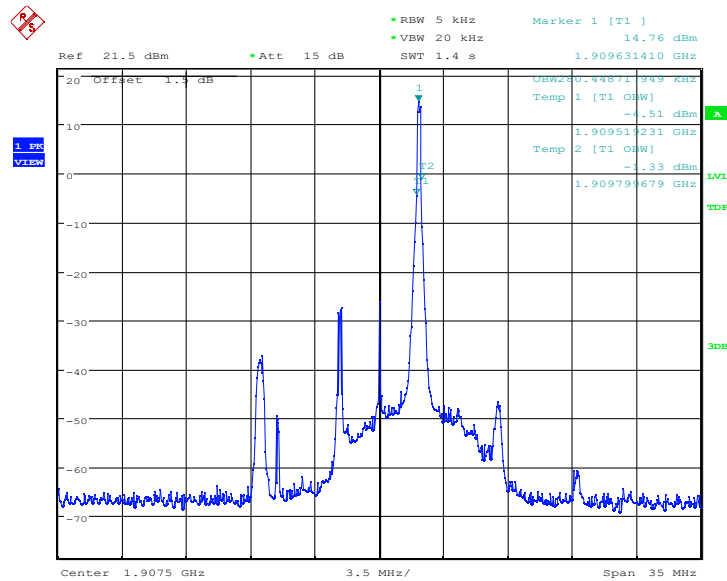
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Date: 26.FEB.2023 10:10:14

OBW: 1RB-HIGH_offset

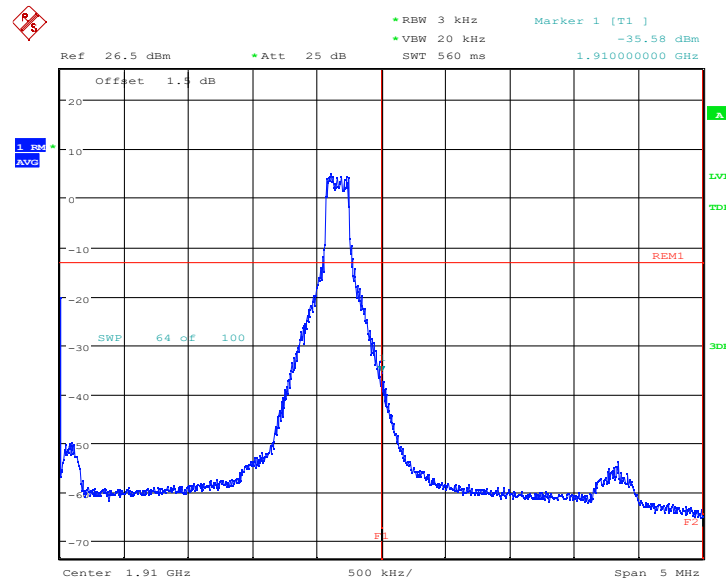


Date: 27.FEB.2023 04:51:16

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

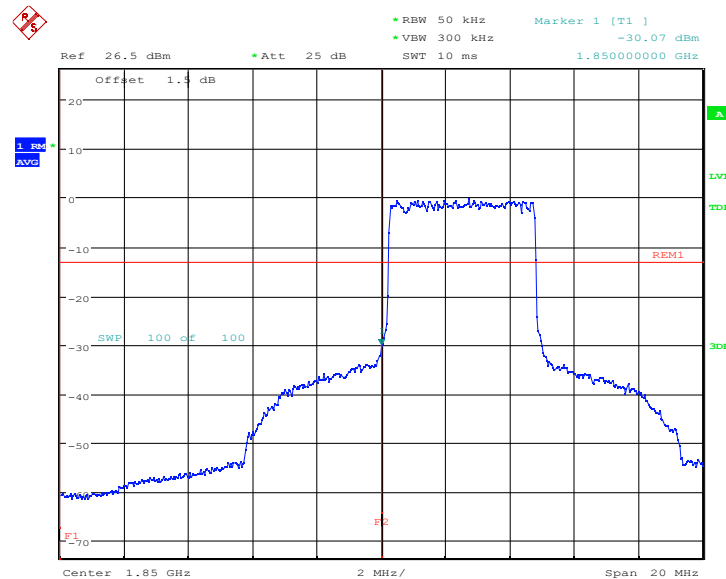
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Date: 27.FEB.2023 04:52:54

LOW BAND EDGE BLOCK-5M-100%RB

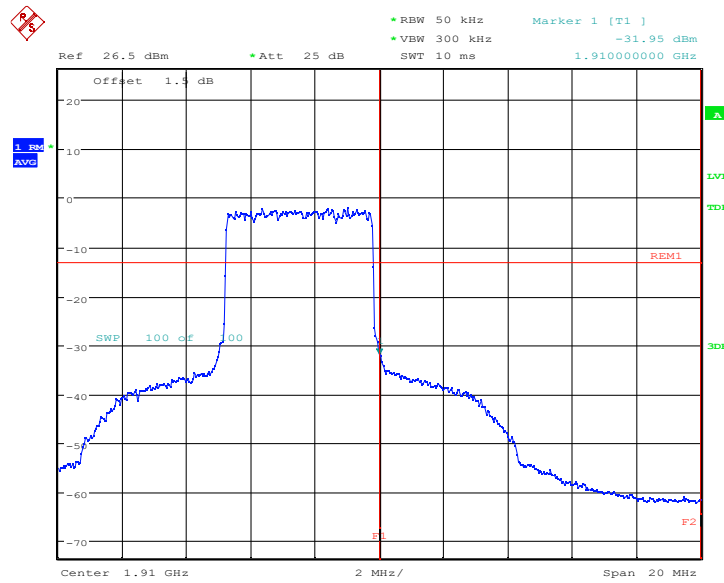


Date: 27.FEB.2023 04:50:51

HIGH BAND EDGE BLOCK-5M-100%RB

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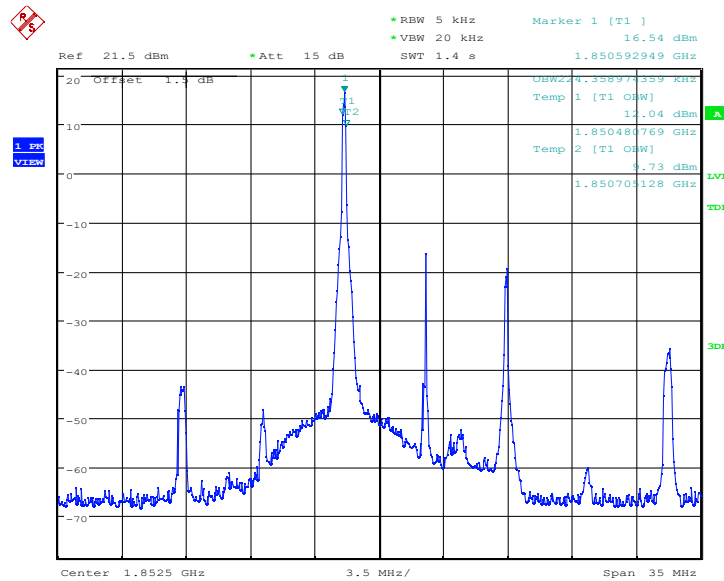
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Date: 26.FEB.2023 10:14:04

LTE band 2-10MHz

OBW: 1RB-LOW_offset

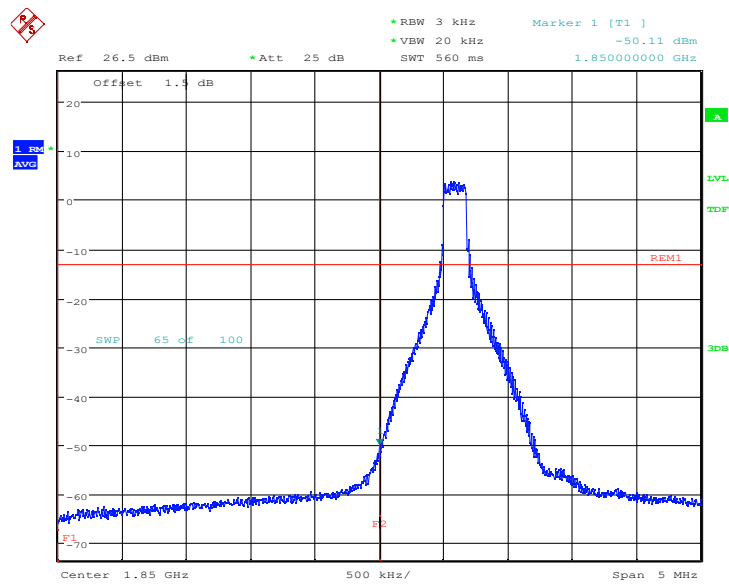


Date: 27.FEB.2023 04:54:32

LOW BAND EDGE BLOCK-1RB-LOW_offset

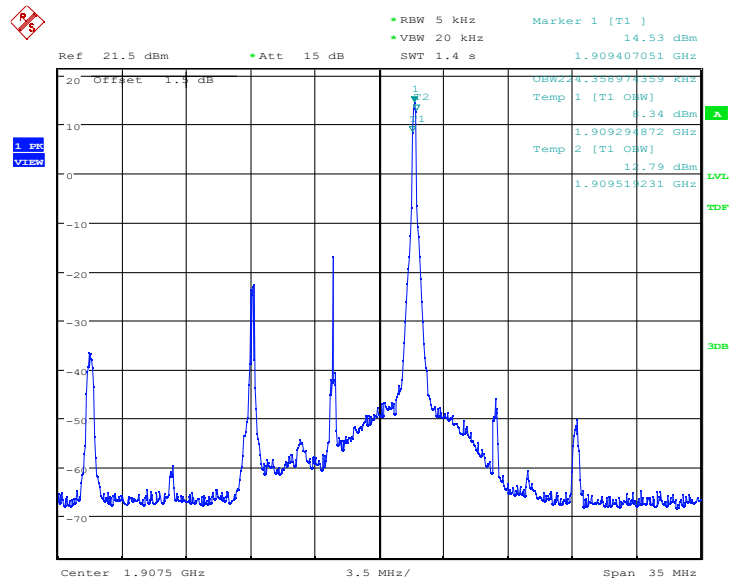
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Date: 27.FEB.2023 04:56:08

OBW: 1RB-HIGH_offset

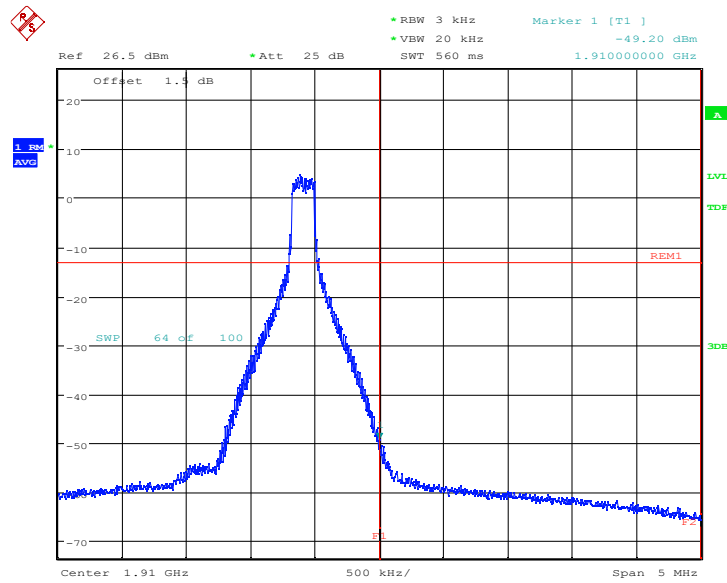


Date: 27.FEB.2023 04:56:35

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

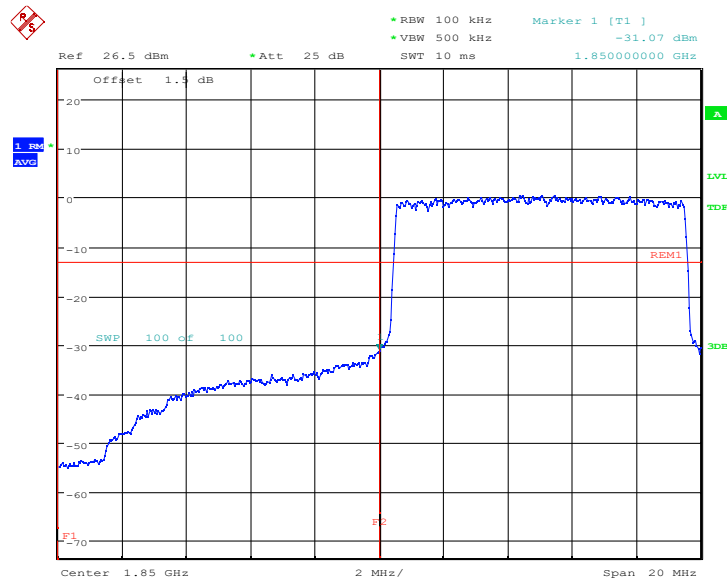
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Date: 27.FEB.2023 04:58:12

LOW BAND EDGE BLOCK-10M-100%RB



Date: 26.FEB.2023 10:17:38

HIGH BAND EDGE BLOCK-10M-100%RB

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Ref 26.5 dBm Att 25 dB RBW 100 kHz VBW 500 kHz SWT 10 ms Marker 1 [T1] -31.19 dBm 1.91000000 GHz

Offset 1.1 dB

1.91 GHz AVG

SWP 100 of 100

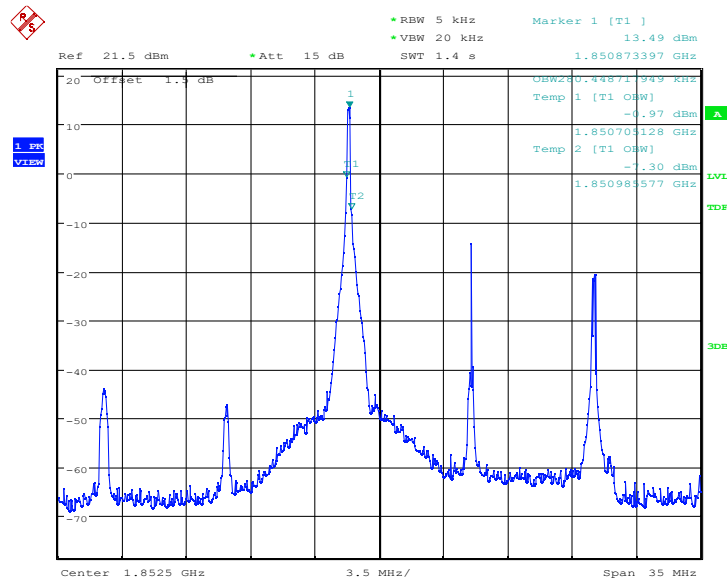
REM1

F1

F2

Center 1.91 GHz 2 MHz/ Span 20 MHz

OBW: 1RB-LOW_offset

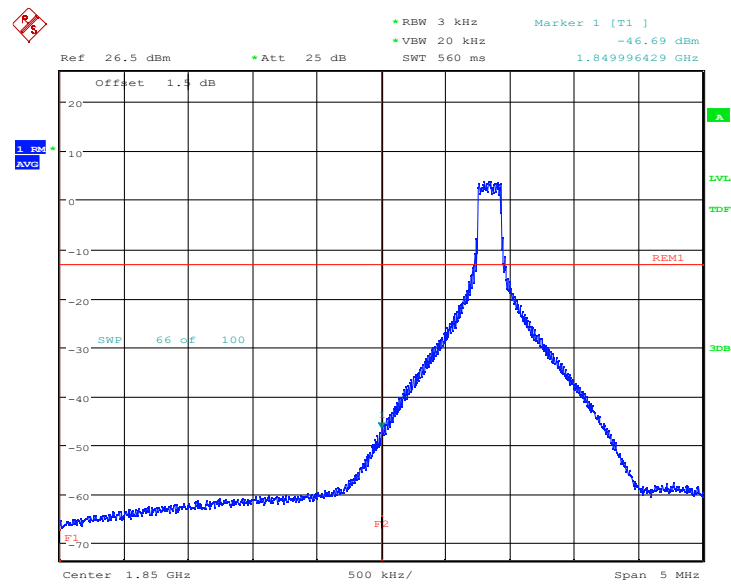


Date: 26.FEB.2023 10:23:01

LOW BAND EDGE BLOCK-1RB-LOW_offset

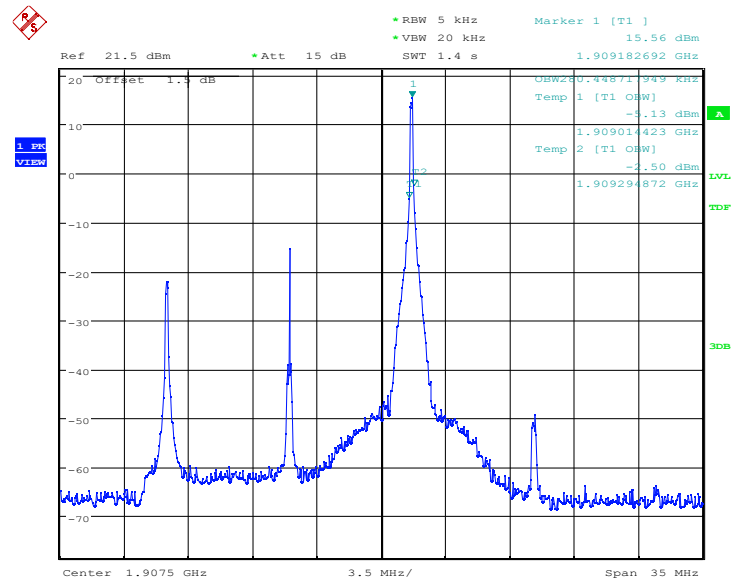
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Date: 26.FEB.2023 10:24:37

OBW: 1RB-HIGH_offset

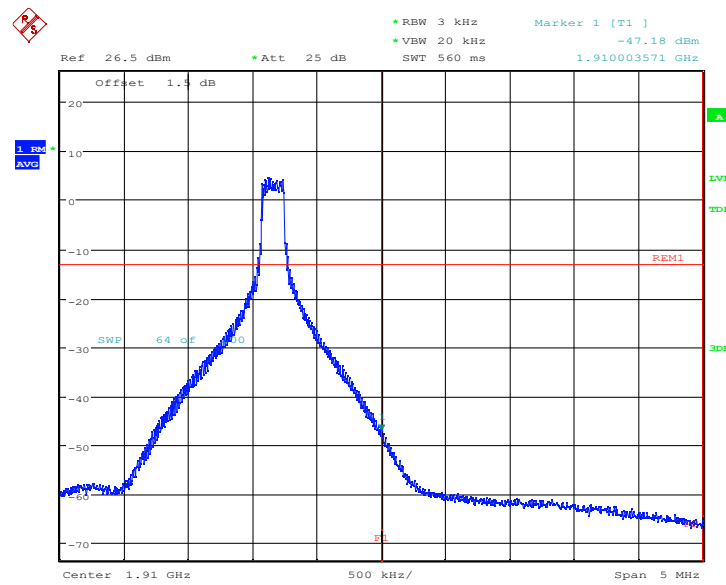


Date: 27.FEB.2023 05:00:20

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

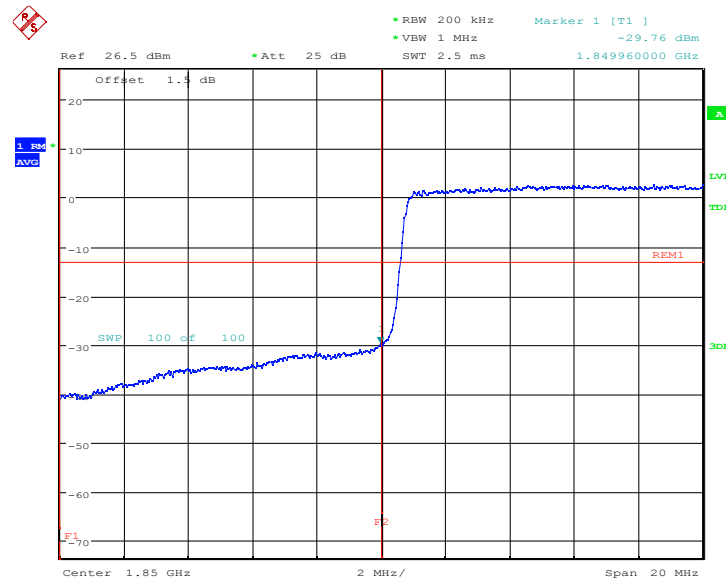
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Date: 27.FEB.2023 05:01:57

LOW BAND EDGE BLOCK-15M-100%RB

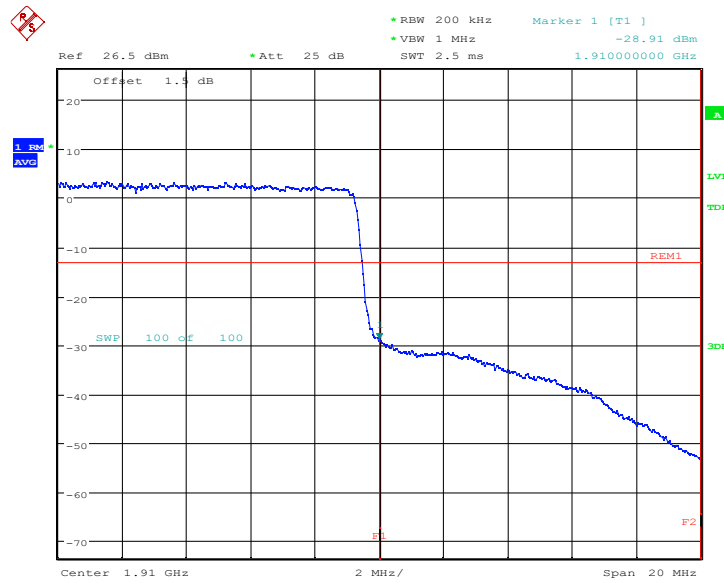


Date: 27.FEB.2023 04:59:54

HIGH BAND EDGE BLOCK-15M-100%RB

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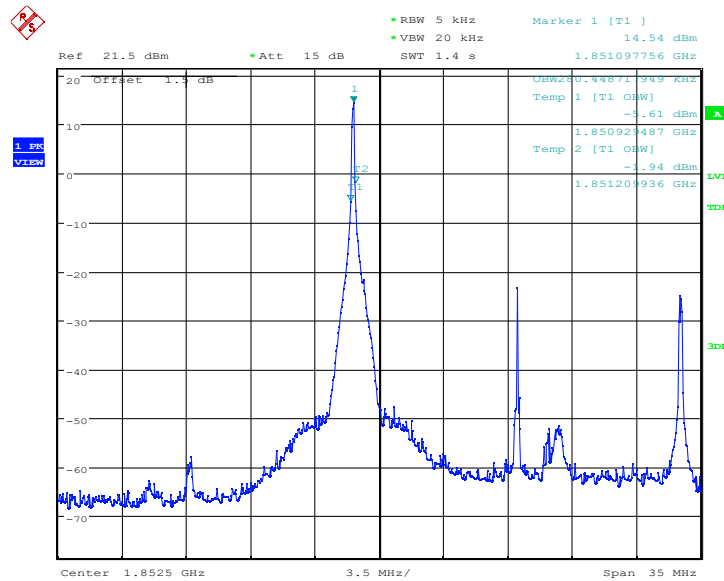
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Date: 26.FEB.2023 12:52:57

LTE band 2-20MHz

OBW: 1RB-LOW_offset

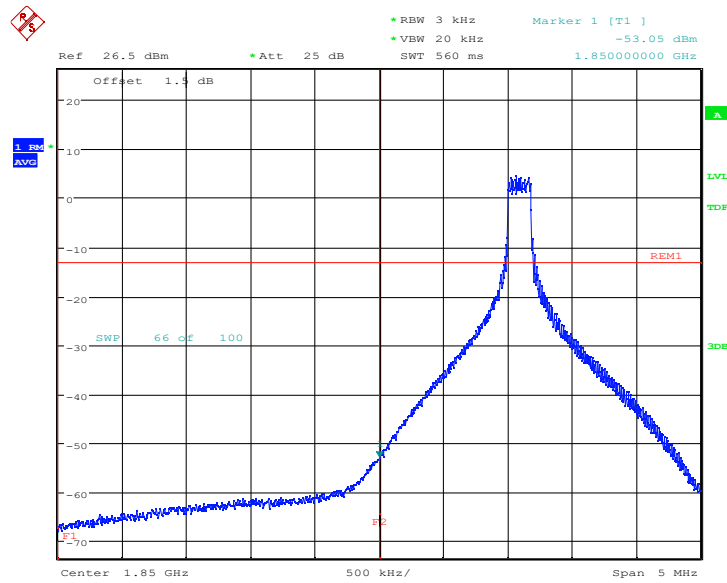


Date: 26.FEB.2023 10:30:34

LOW BAND EDGE BLOCK-1RB-LOW_offset

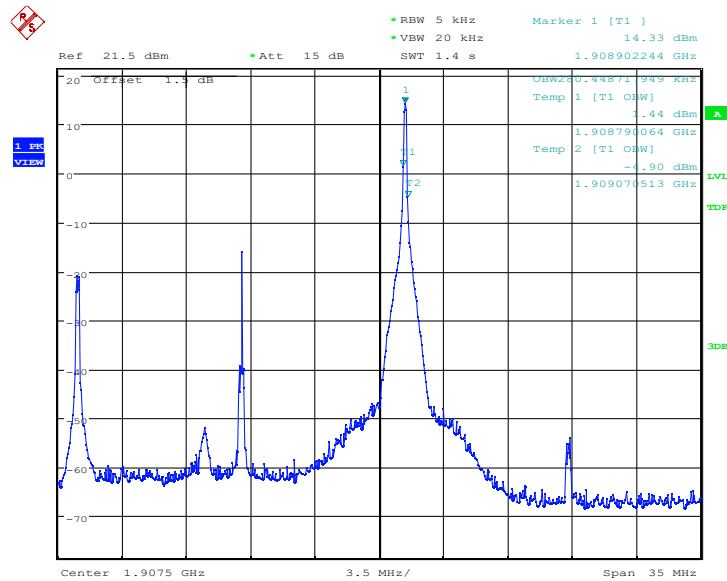
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Date: 26.FEB.2023 10:32:10

OBW: 1RB-HIGH_offset

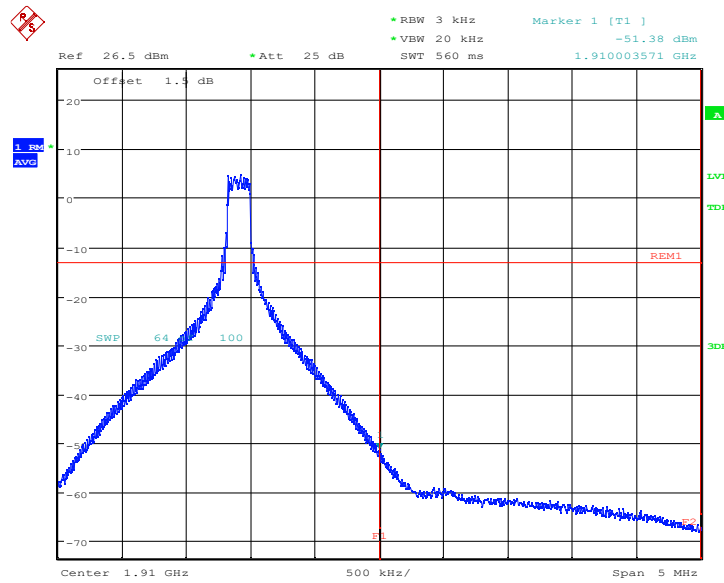


Date: 26.FEB.2023 10:33:21

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

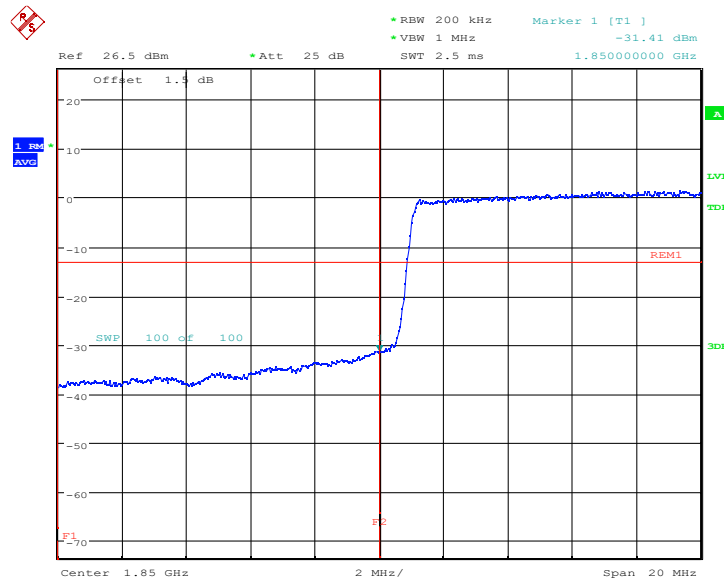
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Date: 26.FEB.2023 10:34:59

LOW BAND EDGE BLOCK-20M-100%RB



Date: 26.FEB.2023 10:32:55

HIGH BAND EDGE BLOCK-20M-100%RB

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Ref 26.5 dBm Att 25 dB RBW 200 kHz VBW 1 MHz SWT 2.5 ms Marker 1 [T1] -31.23 dBm 1.91000000 GHz

Offset 1.1 dB

20

10

0

-10

-20

-30

-40

-50

-60

-70

SWP 100 of 100

REM1

PL

F2

Center 1.91 GHz 2 MHz/ Span 20 MHz

1 dB View

Ref 21.5 dBm Att 15 dB

RBW 5 kHz VBW 20 kHz

SWT 1.4 s

Marker 1 [T1] 14.69 dBm

1.710200321 GHz

Offset 1.1 dB

1 T1

Temp 1 [T1] CWW

1.41 dBm

1.71014231 GHz

2 [T1] CWW

Temp 2 [T1] CWW

0.94 dBm

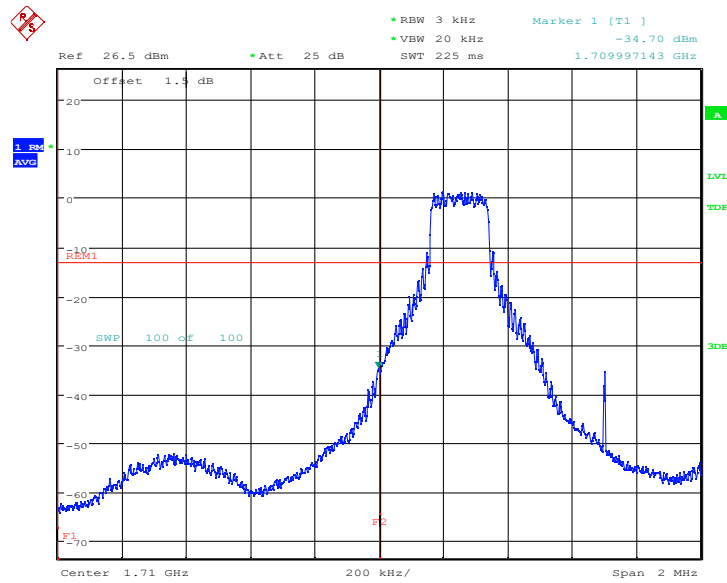
1.710368590 GHz

Center 1.7125 GHz

3.5 MHz/

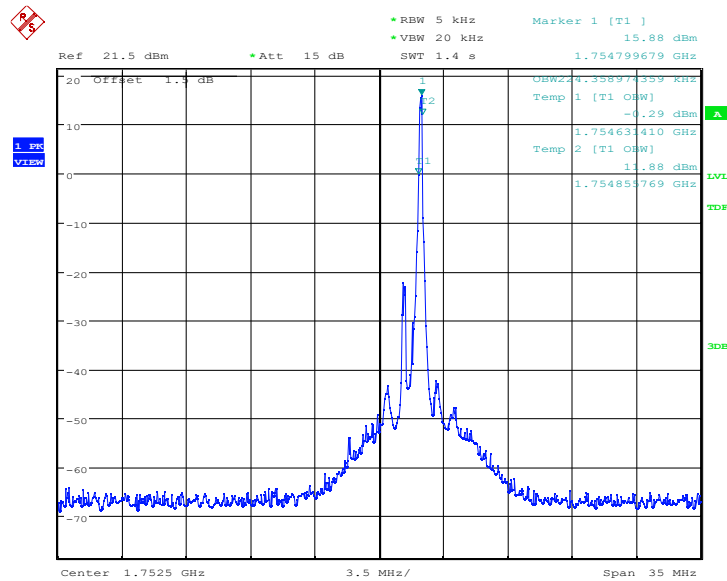
Span 35 MHz

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Date: 26.FEB.2023 10:37:26

OBW: 1RB-HIGH_offset

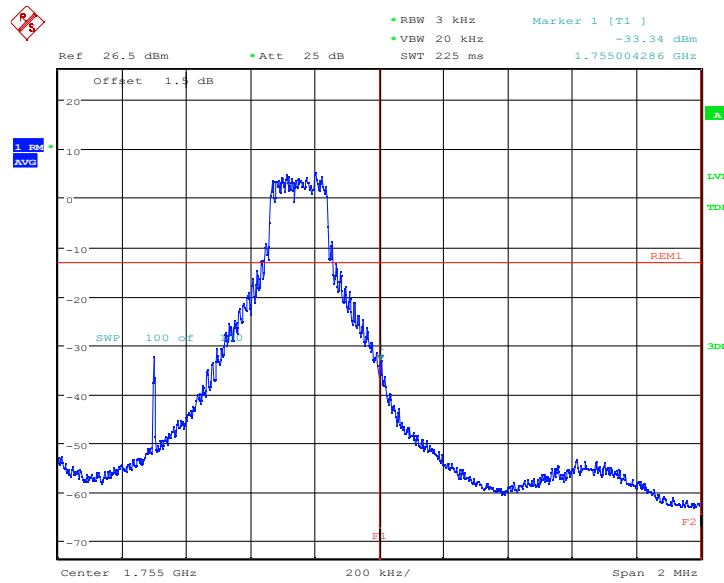


Date: 26.FEB.2023 10:38:53

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

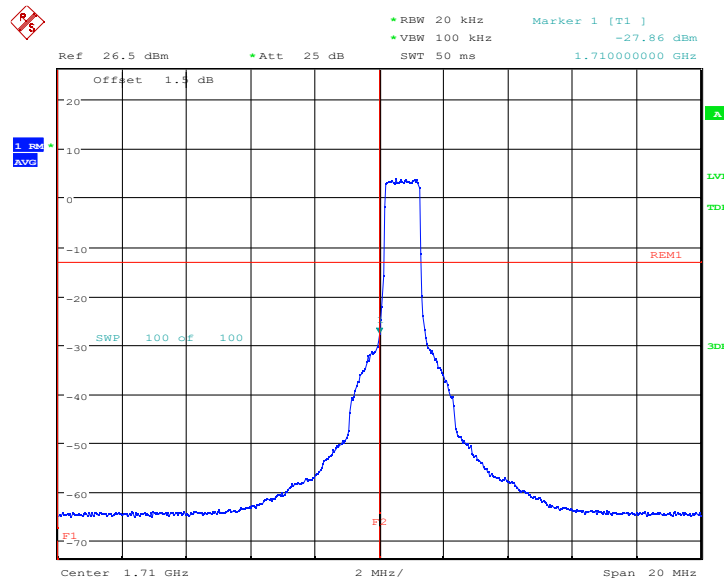
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Date: 26.FEB.2023 10:39:55

LOW BAND EDGE BLOCK-1.4M-100%RB

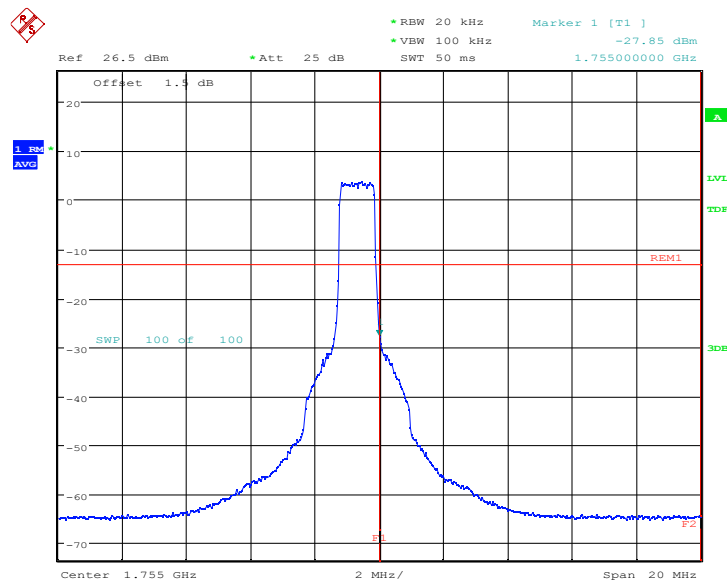


Date: 27.FEB.2023 05:05:36

HIGH BAND EDGE BLOCK-1.4M-100%RB

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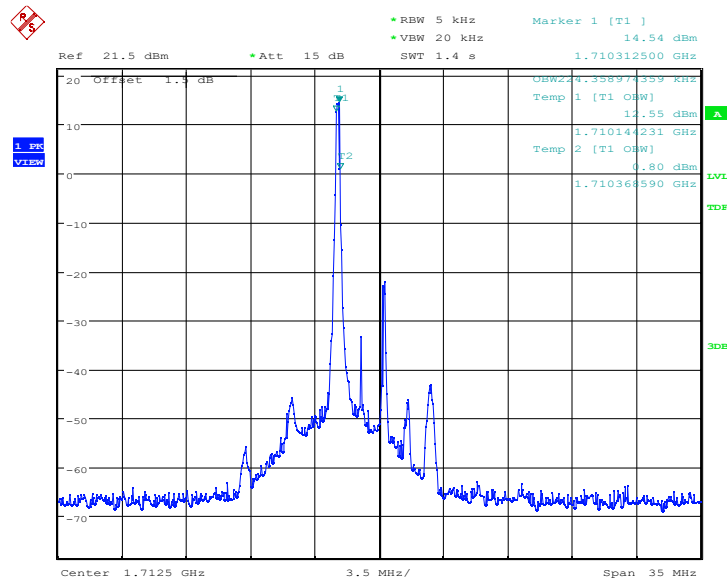
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Date: 26.FEB.2023 10:40:44

LTE band 4-3MHz

OBW: 1RB-LOW_offset

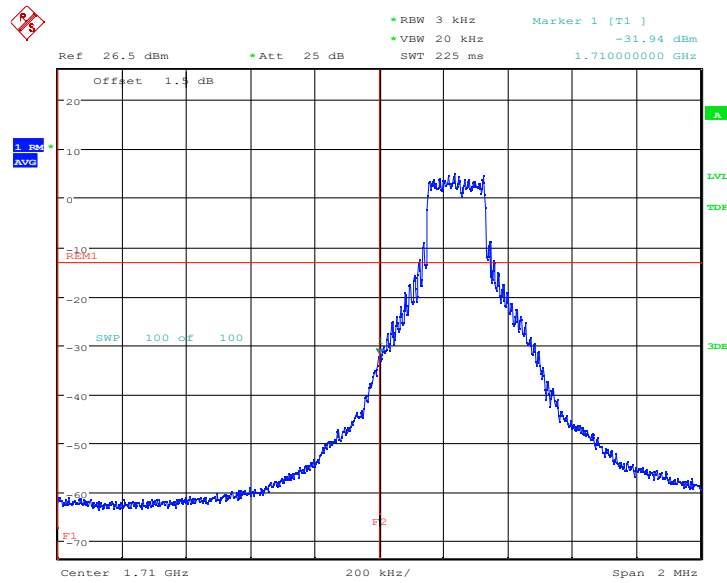


Date: 26.FEB.2023 10:41:59

LOW BAND EDGE BLOCK-1RB-LOW_offset

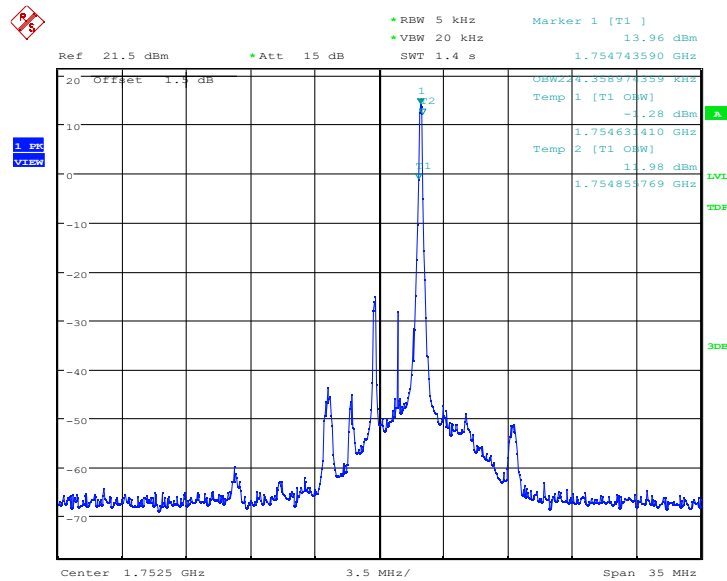
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Date: 26.FEB.2023 10:43:03

OBW: 1RB-HIGH_offset

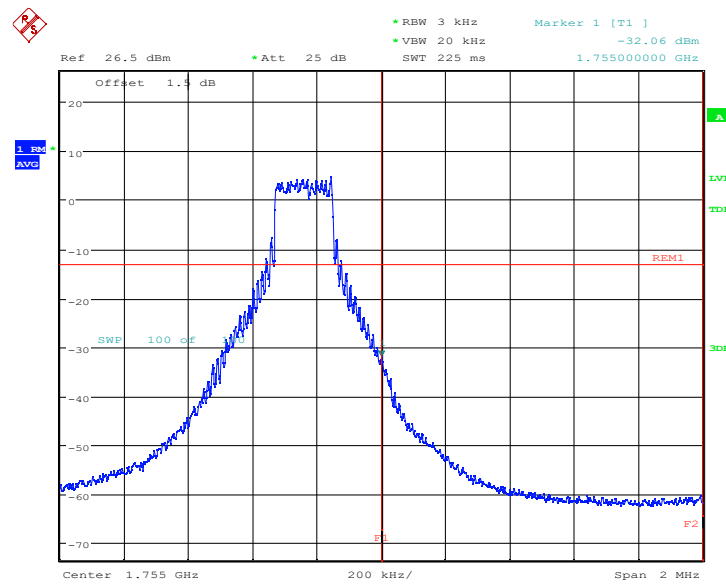


Date: 27.FEB.2023 05:06:53

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

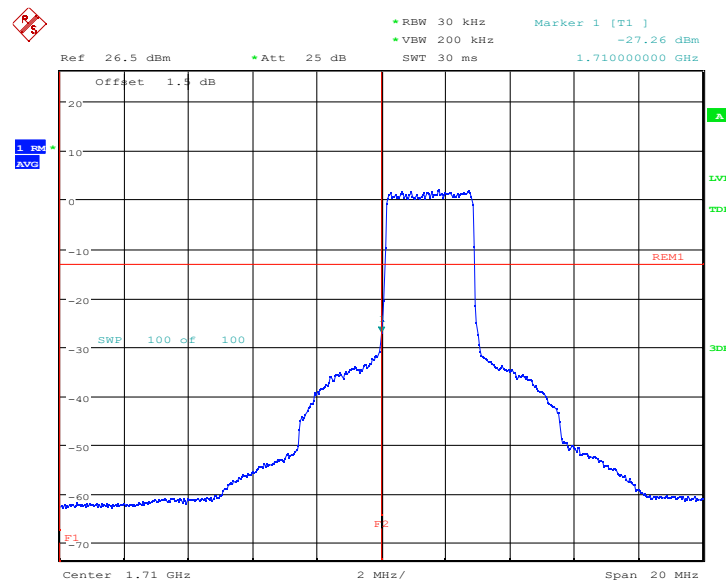
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 27.FEB.2023 05:07:55

LOW BAND EDGE BLOCK-3M-100%RB

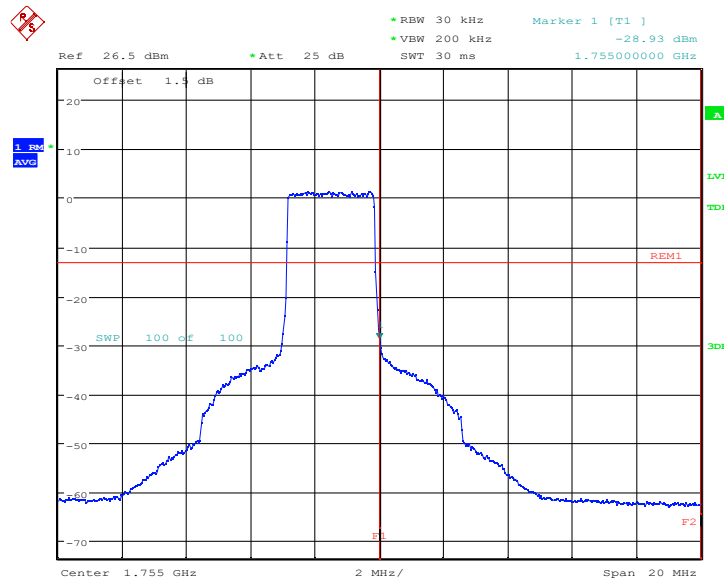


Date: 26.FEB.2023 10:43:51

HIGH BAND EDGE BLOCK-3M-100%RB

Chongqing Academy of Information and Communication Technology

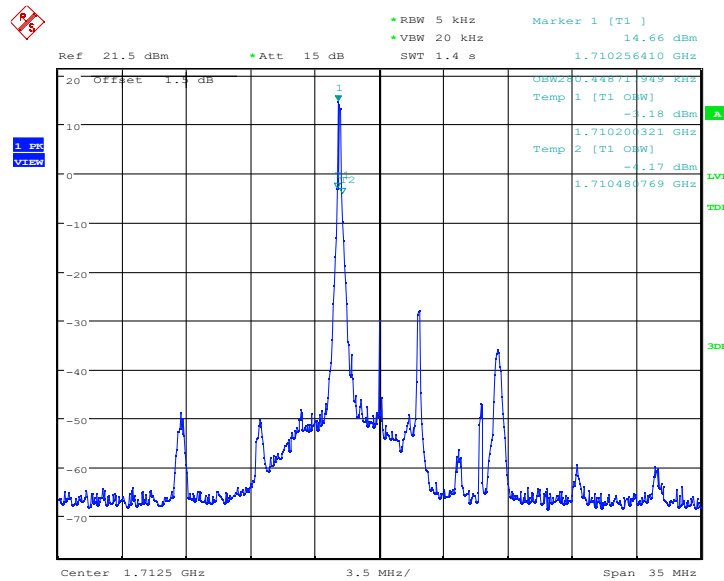
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Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 26.FEB.2023 10:46:13

LTE band 4-5MHz

OBW: 1RB-LOW_offset

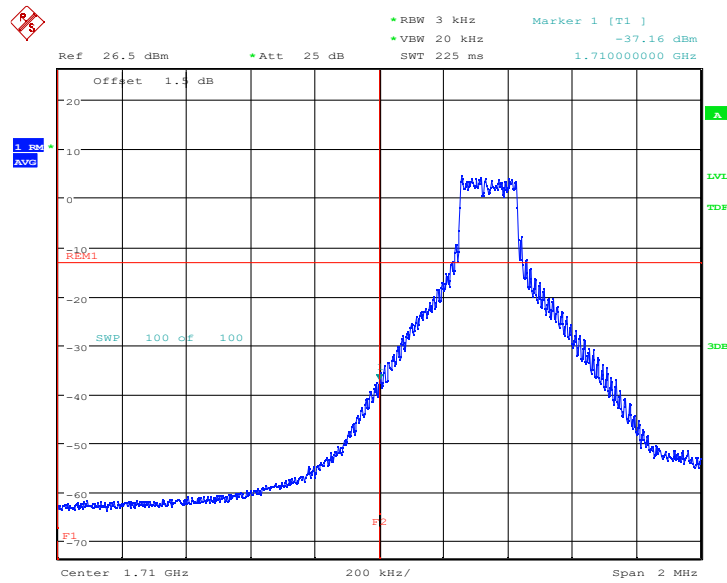


Date: 26.FEB.2023 10:47:30

LOW BAND EDGE BLOCK-1RB-LOW_offset

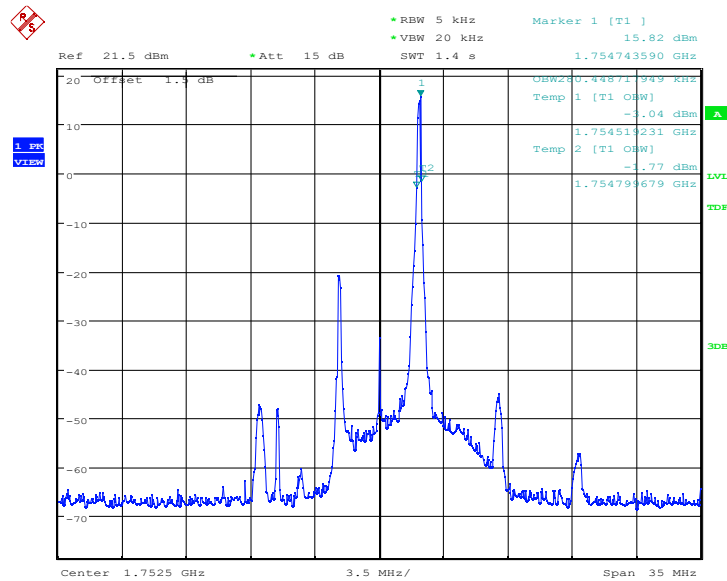
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 26.FEB.2023 10:48:34

OBW: 1RB-HIGH_offset

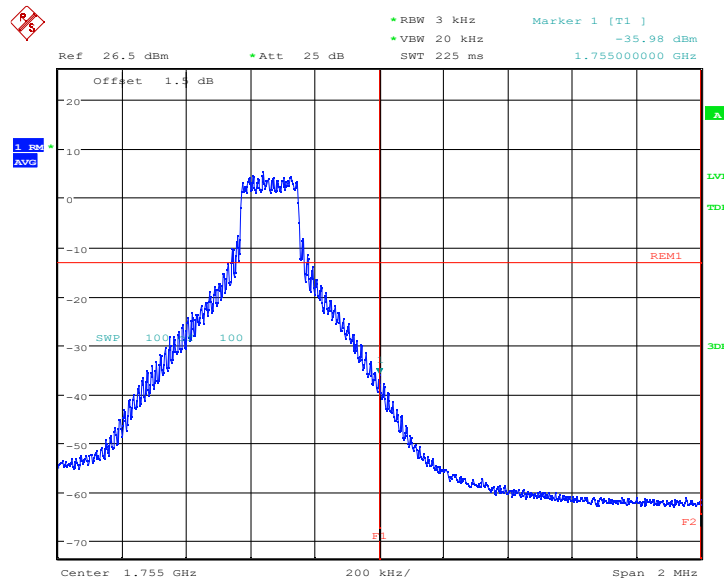


Date: 26.FEB.2023 10:49:52

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

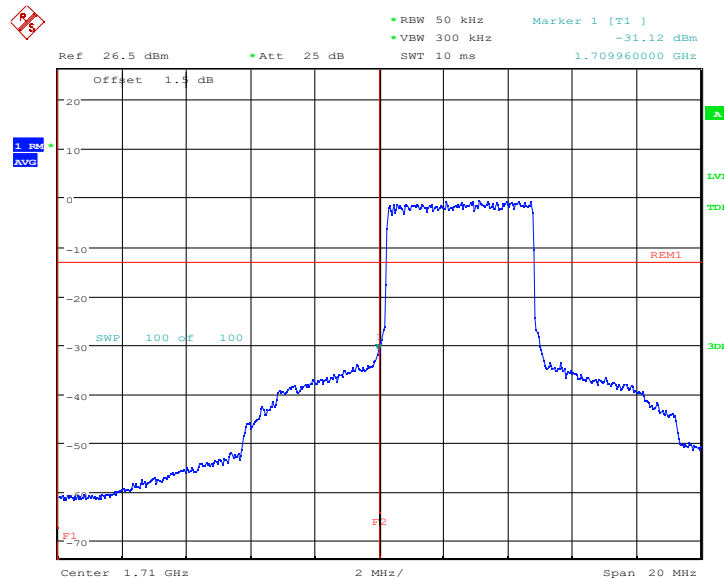
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Date: 26.FEB.2023 10:50:57

LOW BAND EDGE BLOCK-5M-100%RB

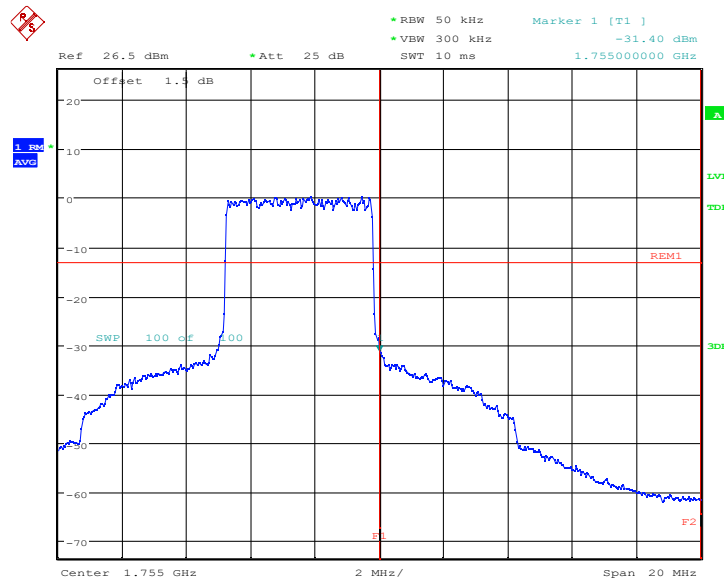


Date: 26.FEB.2023 10:49:21

HIGH BAND EDGE BLOCK-5M-100%RB

Chongqing Academy of Information and Communication Technology

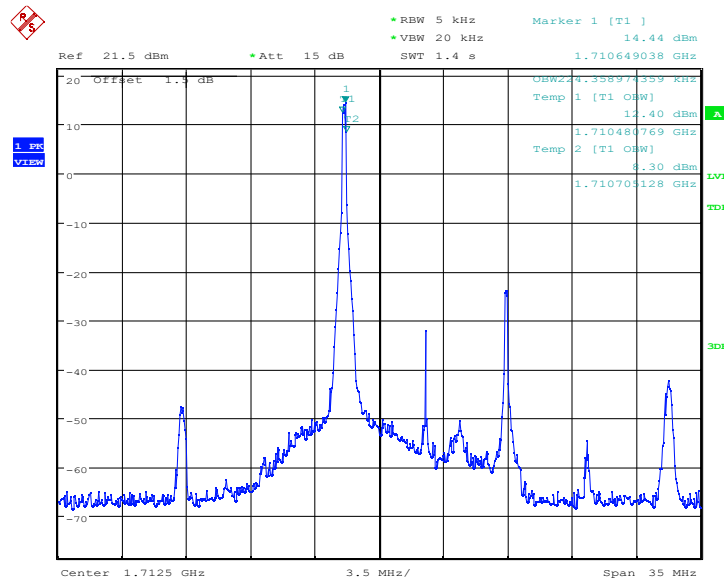
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
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Date: 26.FEB.2023 10:51:42

LTE band 4-10MHz

OBW: 1RB-LOW_offset

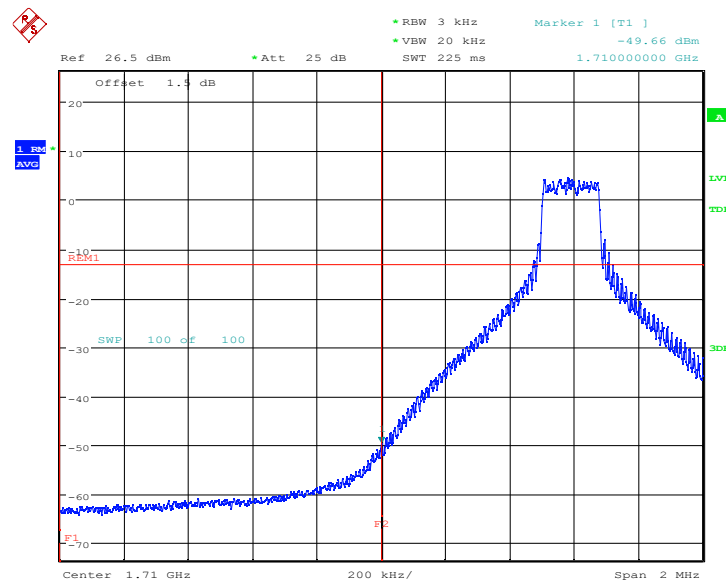


Date: 26.FEB.2023 10:52:36

LOW BAND EDGE BLOCK-1RB-LOW_offset

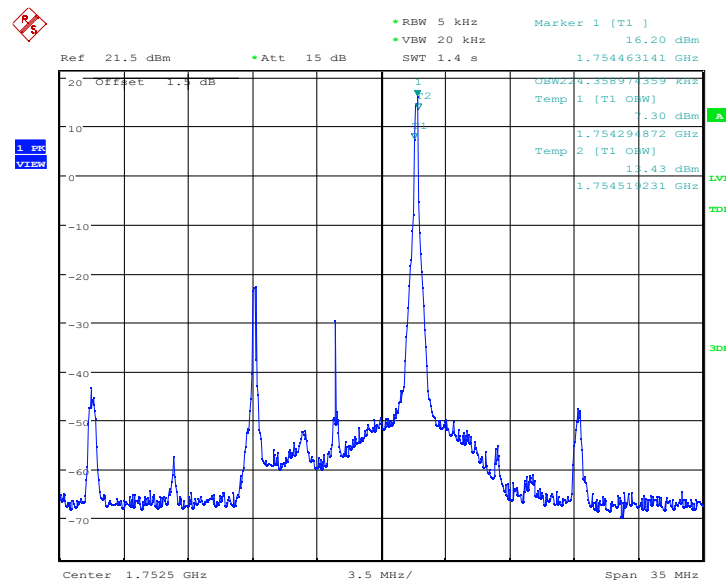
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 26.FEB.2023 10:53:40

OBW: 1RB-HIGH_offset

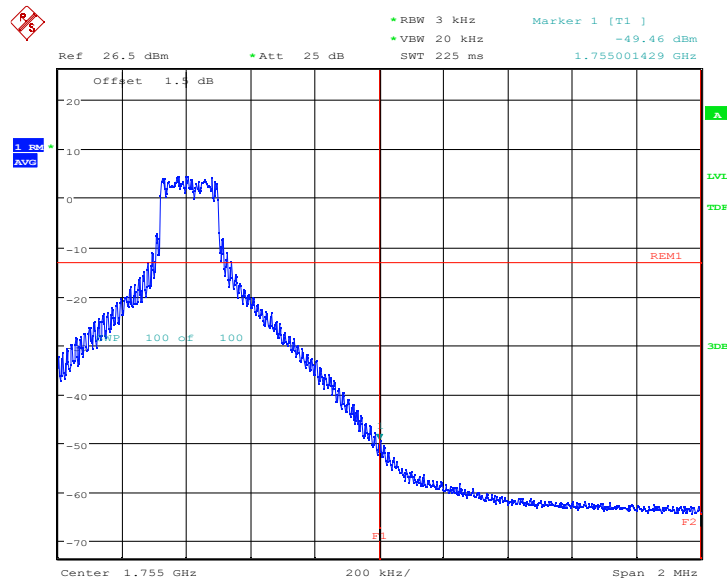


Date: 26.FEB.2023 10:55:07

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

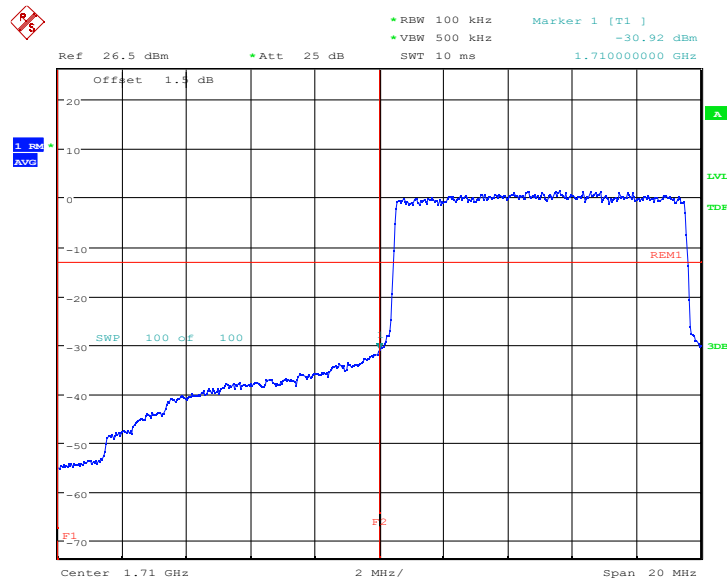
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Date: 26.FEB.2023 10:56:09

LOW BAND EDGE BLOCK-10M-100%RB



Date: 27.FEB.2023 05:09:59

HIGH BAND EDGE BLOCK-10M-100%RB

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Tel: 0086-23-88069965 FAX: 0086-23-88608777



Ref 26.5 dBm Att 25 dB RBW 100 kHz VBW 500 kHz SWT 10 ms Marker 1 [T1] -31.39 dBm 1.755080000 GHz

Offset 1.5 dB

1 3dB AVG

SWP 100 of 100

REMI

F1

F2

Center 1.755 GHz 2 MHz/ Span 20 MHz

Ref 21.5 dBm Att 15 dB SWT 1.4 s

Marker 1 [T1] 14.64 dBm

1.710873397 GHz

Offset 1.5 dB

1 1.710873397 GHz

Temp 1 [T1] 1.710703128 GHz -1.84 dBm

2 [T1] 1.710985577 GHz -4.41 dBm

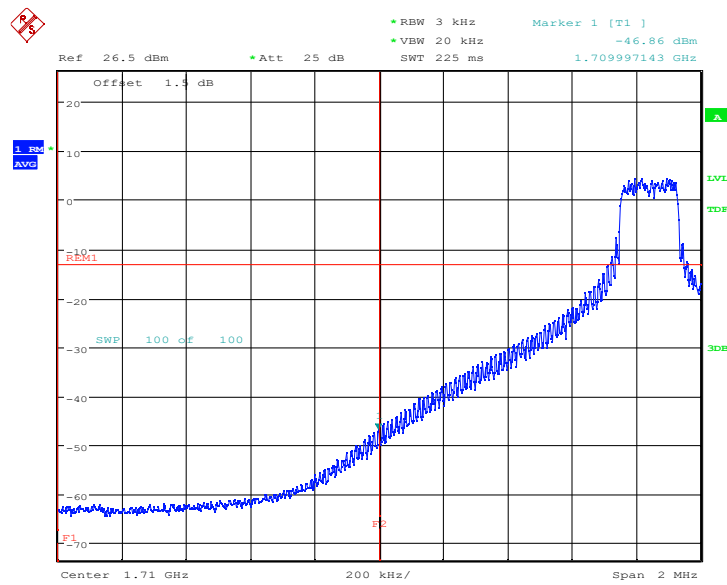
Center 1.7125 GHz Span 35 MHz

3.5 MHz/

1 RBW 5 kHz

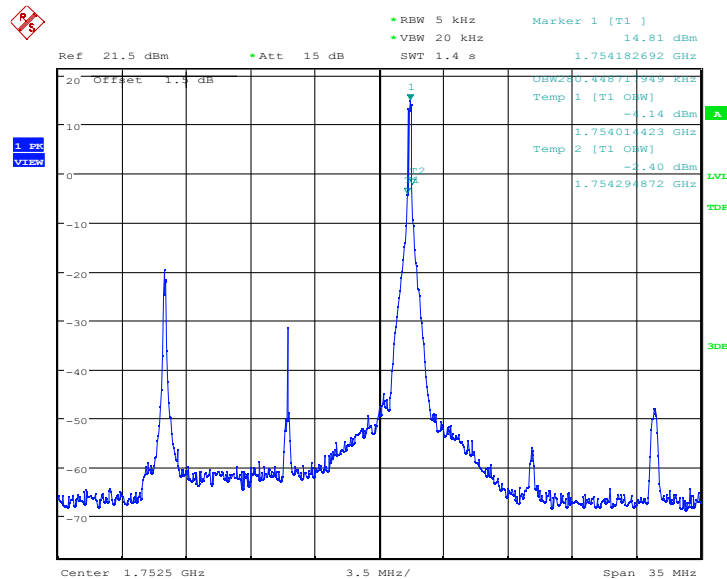
20 kHz VBW

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Date: 26.FEB.2023 12:54:36

OBW: 1RB-HIGH_offset



Date: 26.FEB.2023 11:01:15

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

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Ref 26.5 dBm Att 25 dB RBW 3 kHz VBW 20 kHz SWT 225 ms Marker 1 [T1] -47.99 dBm 1.755004286 GHz

Offset 1.5 dB

1 3dB AVG

SWP 100 GHz

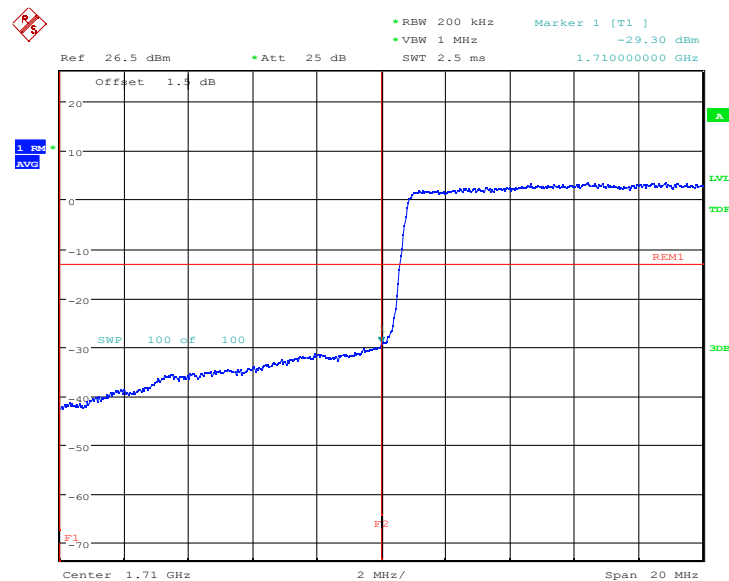
Center 1.755 GHz 200 kHz/ Span 2 MHz

REM1

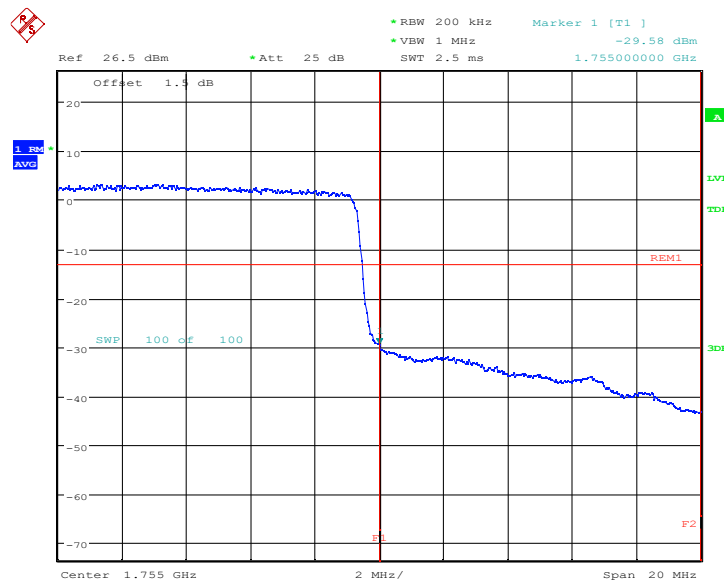
F1

F2

LOW BAND EDGE BLOCK-15M-100%RB



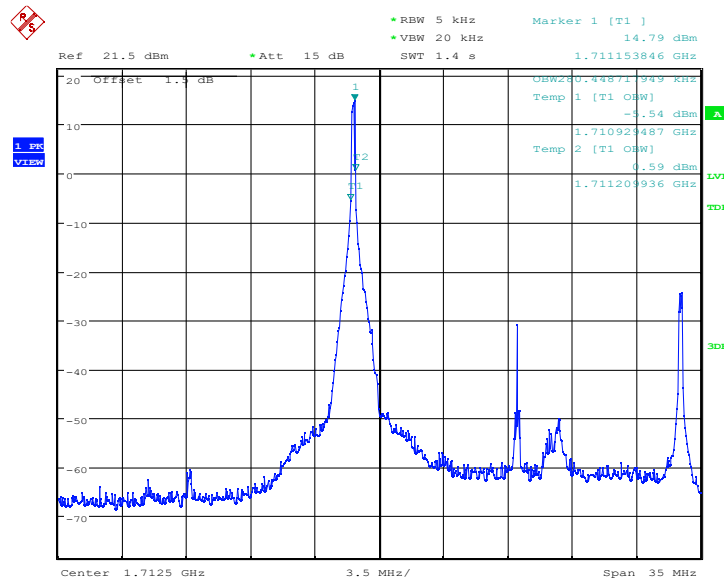
HIGH BAND EDGE BLOCK-15M-100%RB



Date: 26.FEB.2023 11:03:02

LTE band 4-20MHz

OBW: 1RB-LOW_offset

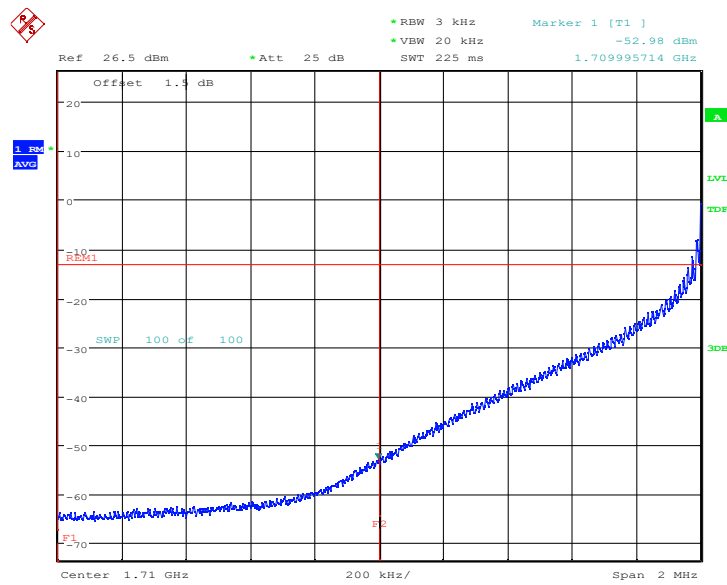


Date: 26.FEB.2023 11:04:16

LOW BAND EDGE BLOCK-1RB-LOW_offset

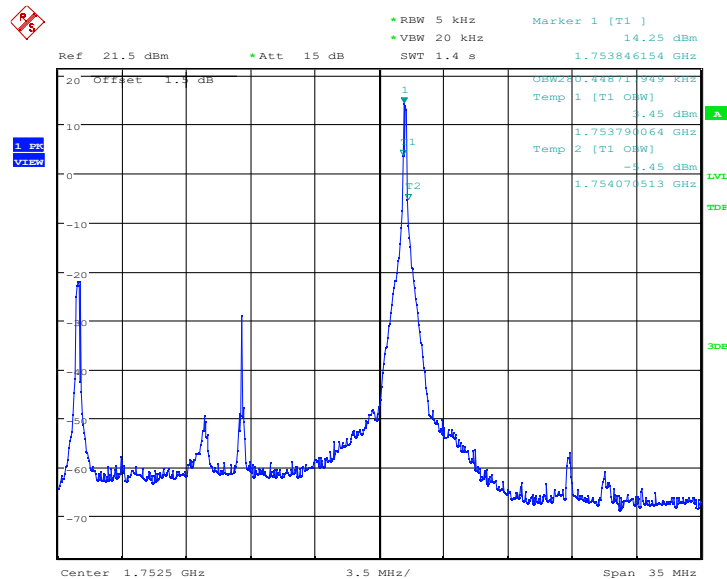
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Date: 26.FEB.2023 11:05:20

OBW: 1RB-HIGH_offset

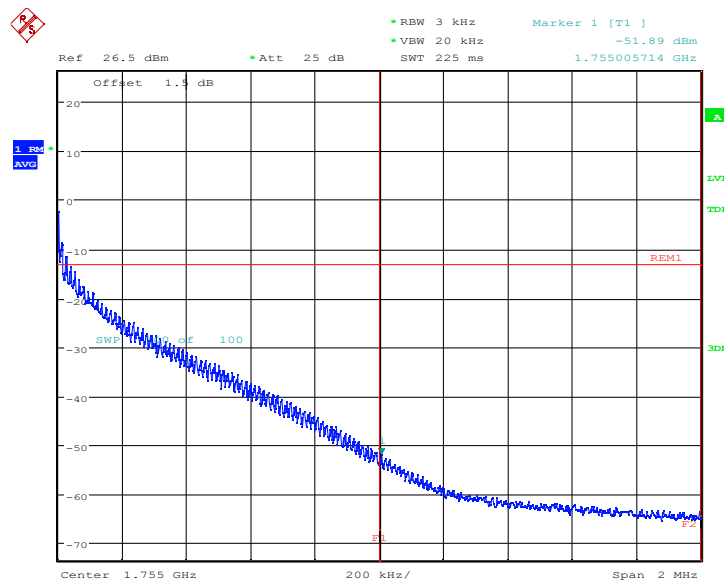


Date: 26.FEB.2023 11:06:36

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

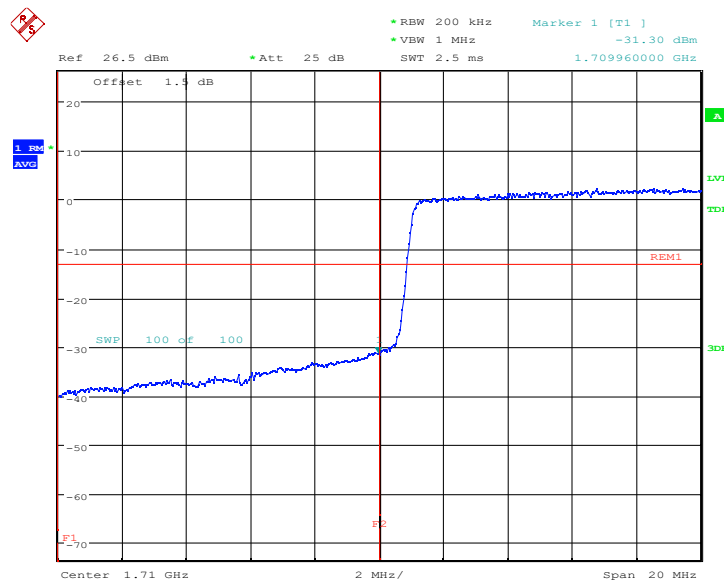
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Date: 26.FEB.2023 11:07:42

LOW BAND EDGE BLOCK-20M-100%RB

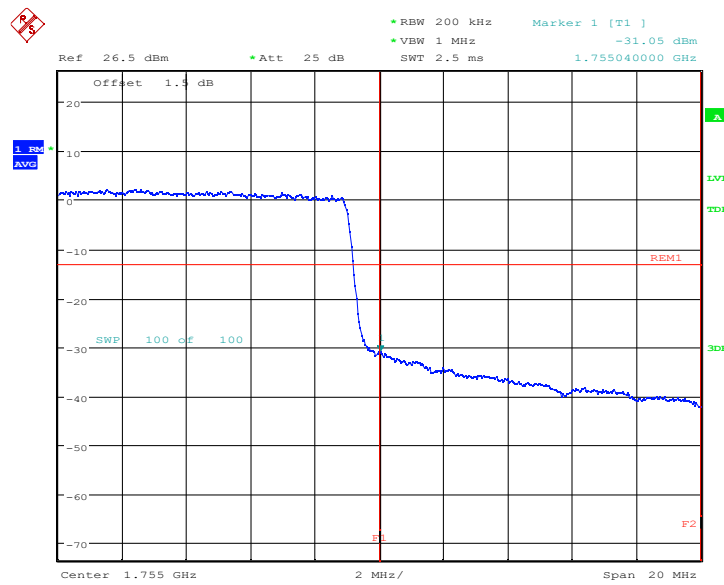


Date: 26.FEB.2023 11:06:07

HIGH BAND EDGE BLOCK-20M-100%RB

Chongqing Academy of Information and Communication Technology

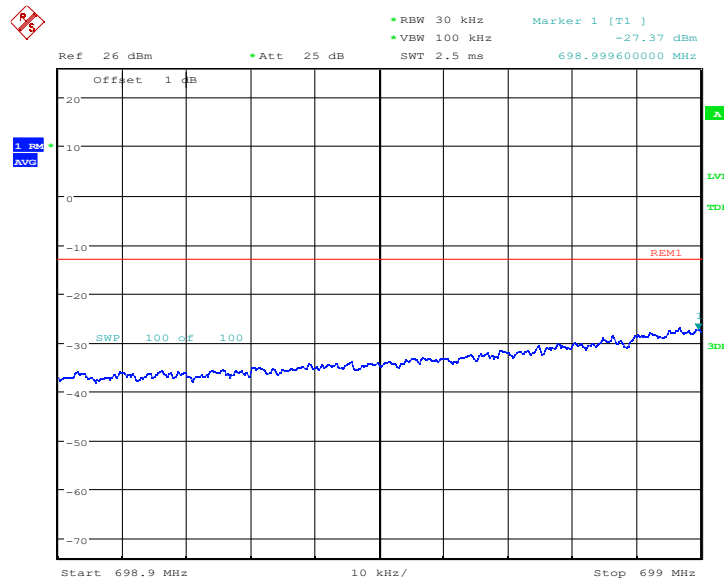
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Date: 27.FEB.2023 05:12:13

LTE band 12-1.4MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset

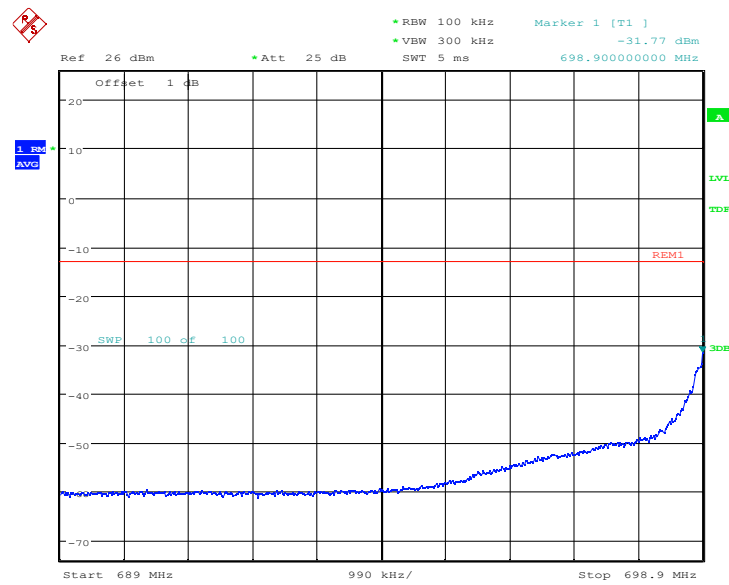


Date: 26.FEB.2023 11:10:03

LOW BAND EDGE BLOCK-1RB-LOW_offset

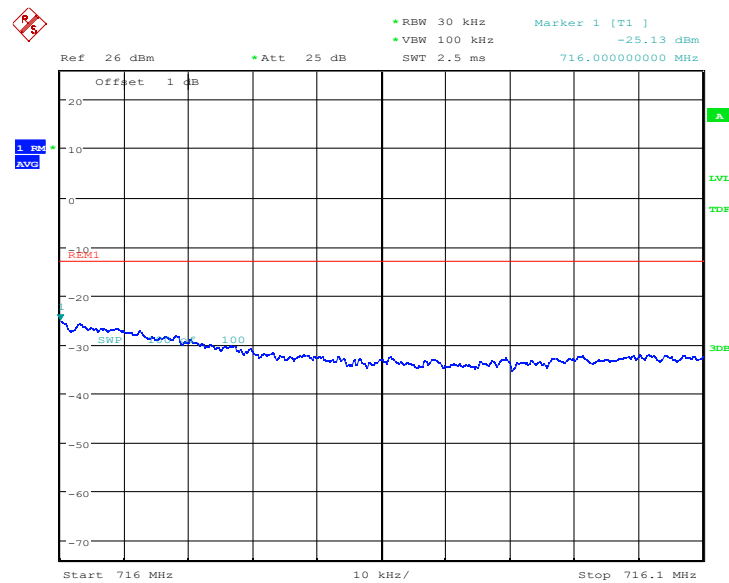
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Date: 26.FEB.2023 11:10:46

HIGH BAND EDGE BLOCK-1RB-HIGH_offset



Date: 27.FEB.2023 05:13:44

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

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Ref 26 dBm • Att 25 dB • RBW 100 kHz • VBW 300 kHz • SWT 5 ms Marker 1 [T1] -26.84 dBm 716.10000000 MHz

Offset 1 dB

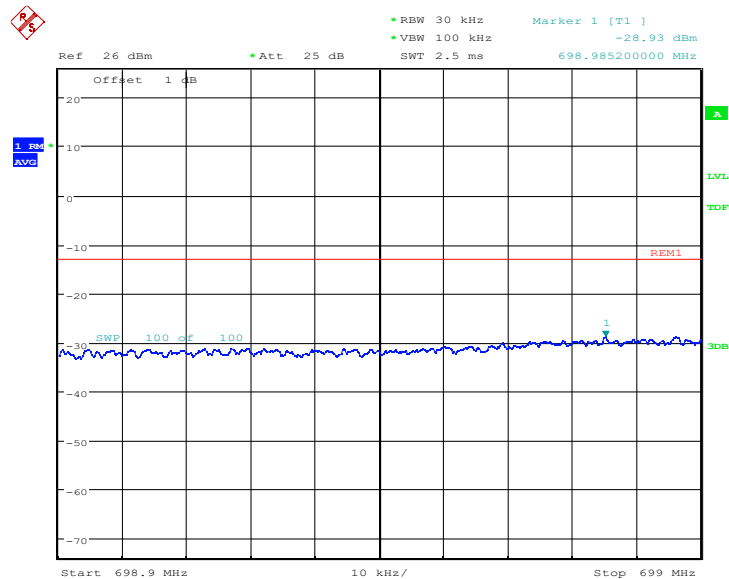
1.500
AVG

SWP 100 of 100

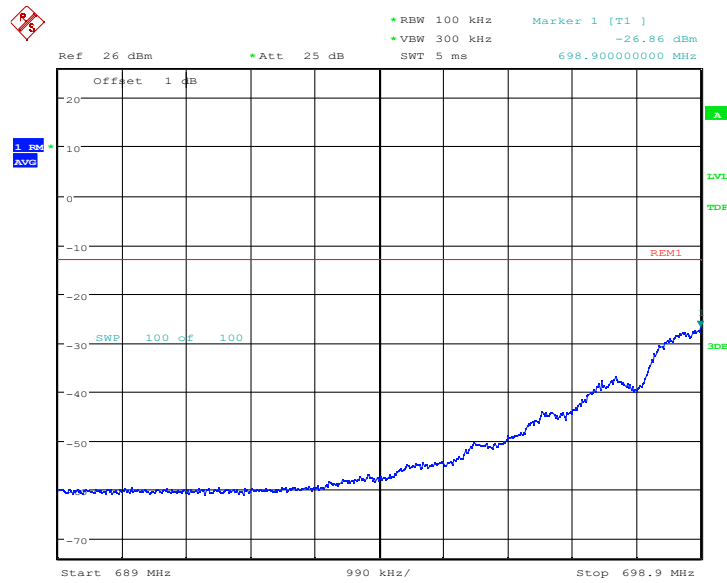
REM1

Start 716.1 MHz 990 kHz/ Stop 726 MHz

LOW BAND EDGE BLOCK-1.4M-100%RB

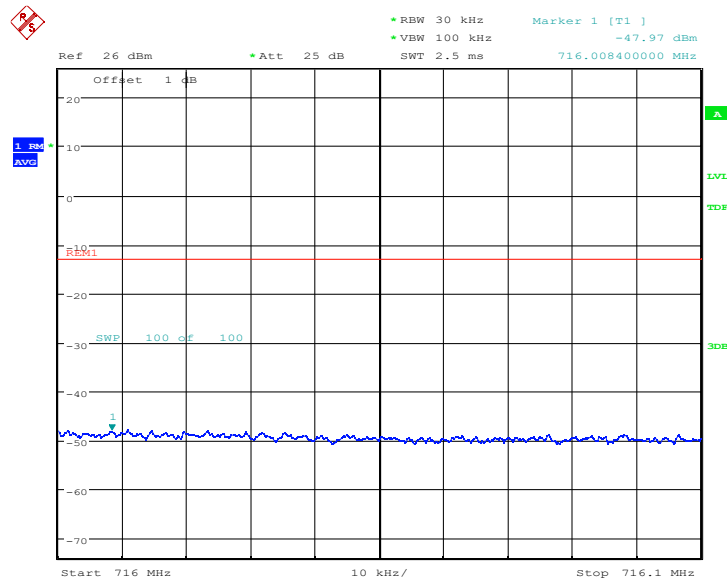


LOW BAND EDGE BLOCK-1.4M-100%RB



Date: 26.FEB.2023 11:12:12

HIGH BAND EDGE BLOCK-1.4M-100%RB

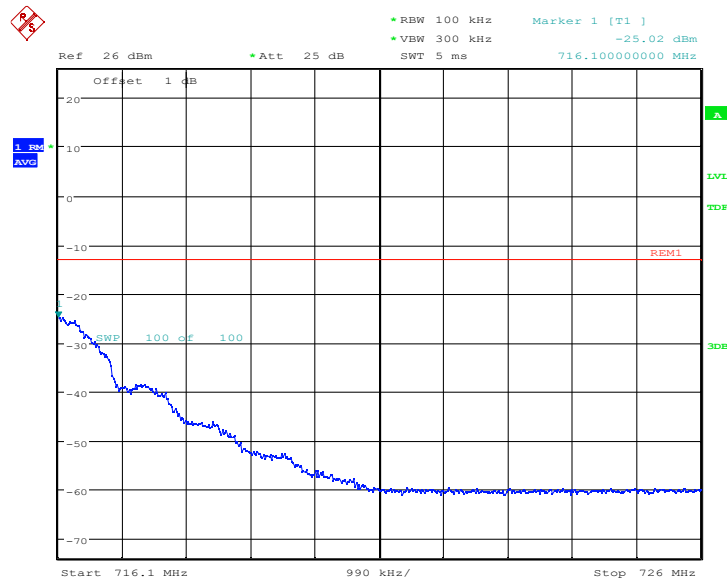


Date: 26.FEB.2023 11:14:48

HIGH BAND EDGE BLOCK-1.4M-100%RB

Chongqing Academy of Information and Communication Technology

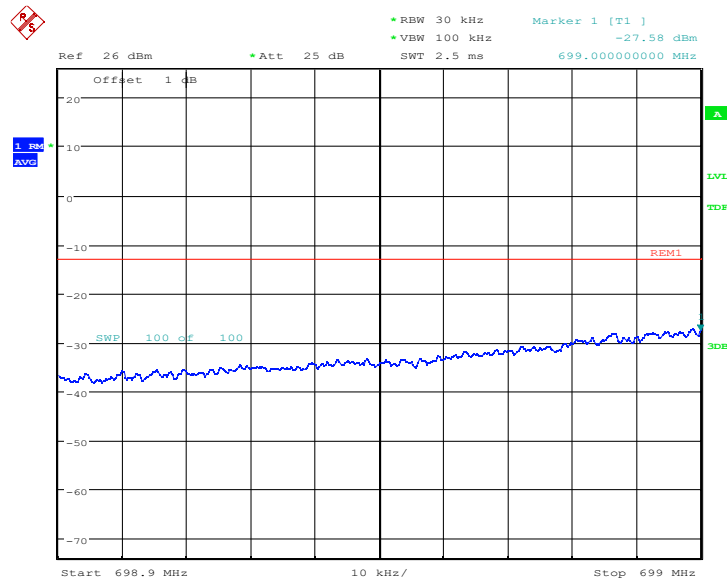
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Date: 26.FEB.2023 11:15:31

LTE band 12-3MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset



Date: 26.FEB.2023 11:17:15

LOW BAND EDGE BLOCK-1RB-LOW_offset

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Ref 26 dBm • Att 25 dB • RBW 100 kHz Marker 1 [T1] -31.82 dBm
 • VBW 300 kHz SWT 5 ms 698.900000000 MHz

Offset 1 dB

1.5dB
AVG

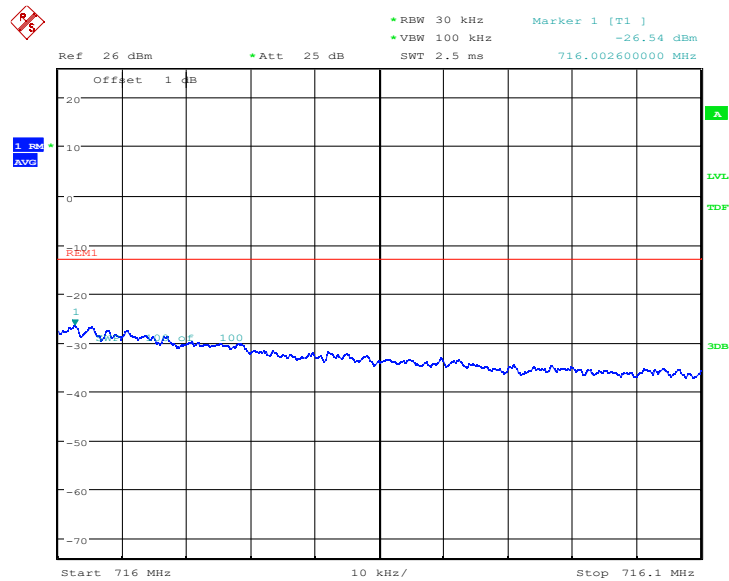
SWP 100 of 100

REM1

3DB

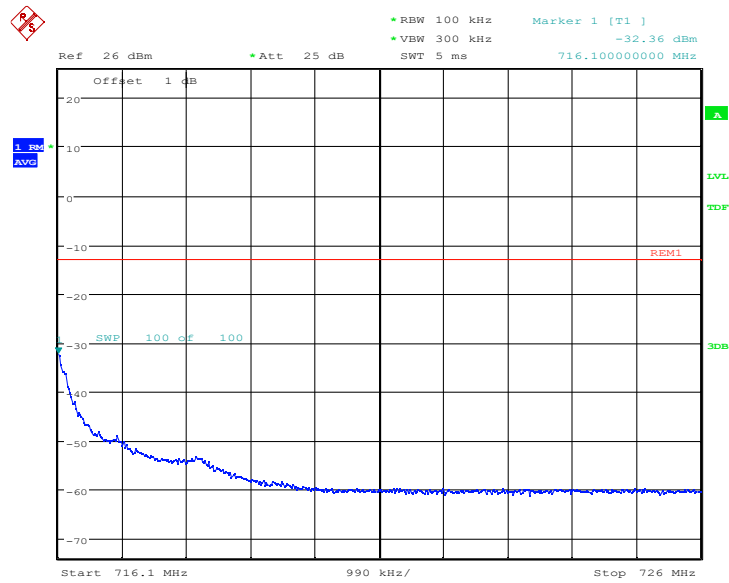
Start 689 MHz 990 kHz/ Stop 698.9 MHz

HIGH BAND EDGE BLOCK-1RB-HIGH_offset



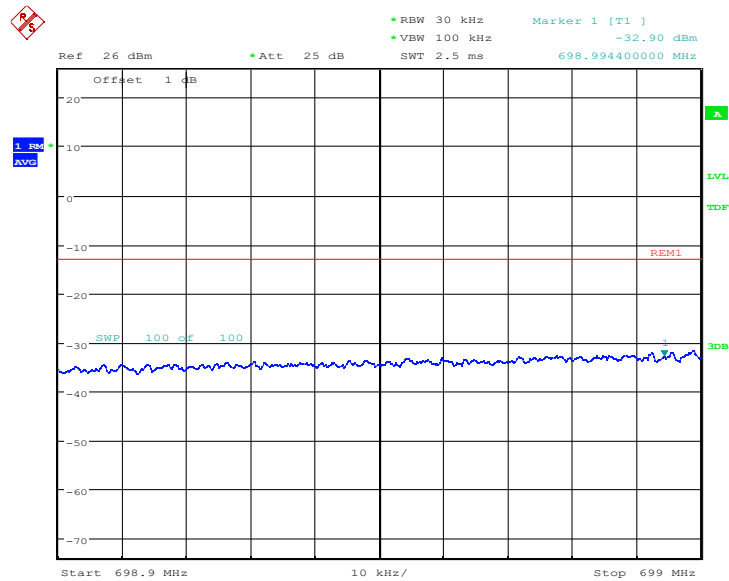
HIGH BAND EDGE BLOCK-1RB-HIGH_offset

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Date: 26.FEB.2023 11:20:55

LOW BAND EDGE BLOCK-3M-100%RB

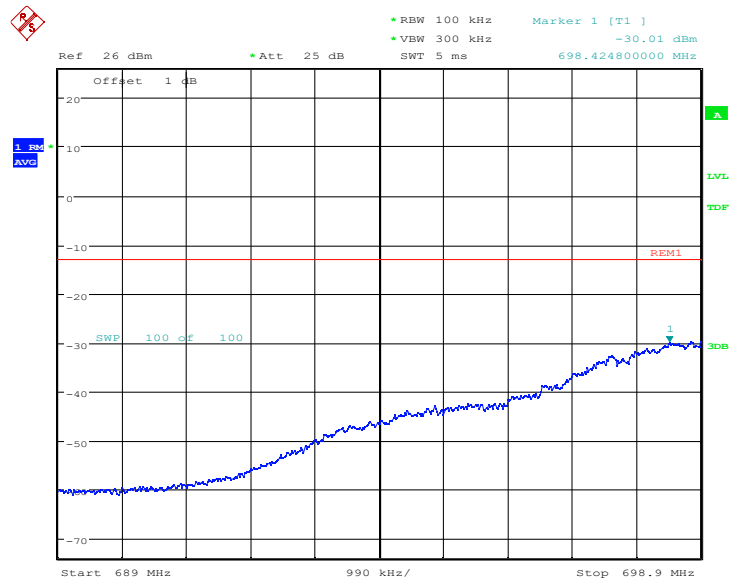


Date: 26.FEB.2023 11:18:41

LOW BAND EDGE BLOCK-3M-100%RB

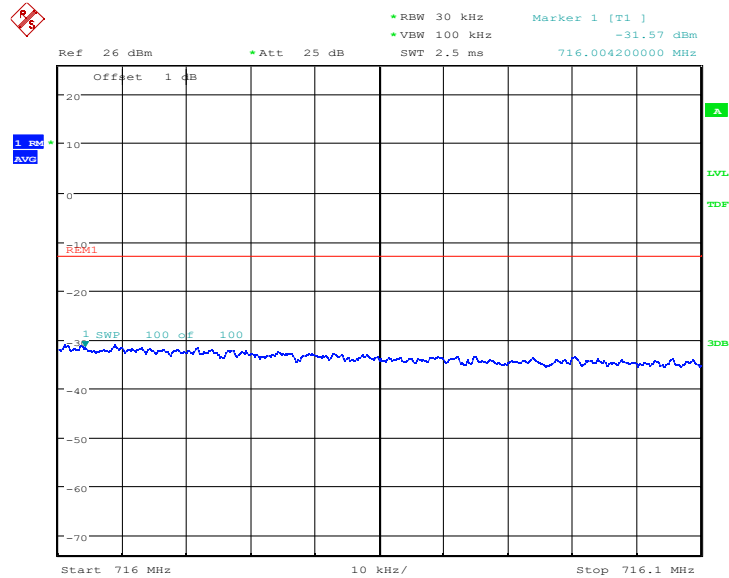
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Date: 26.FEB.2023 11:19:24

HIGH BAND EDGE BLOCK-3M-100%RB



Date: 26.FEB.2023 11:21:38

HIGH BAND EDGE BLOCK-3M-100%RB

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Ref 26 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 5 ms Marker 1 [T1] -29.09 dBm 716.10000000 MHz

Offset 1 dB

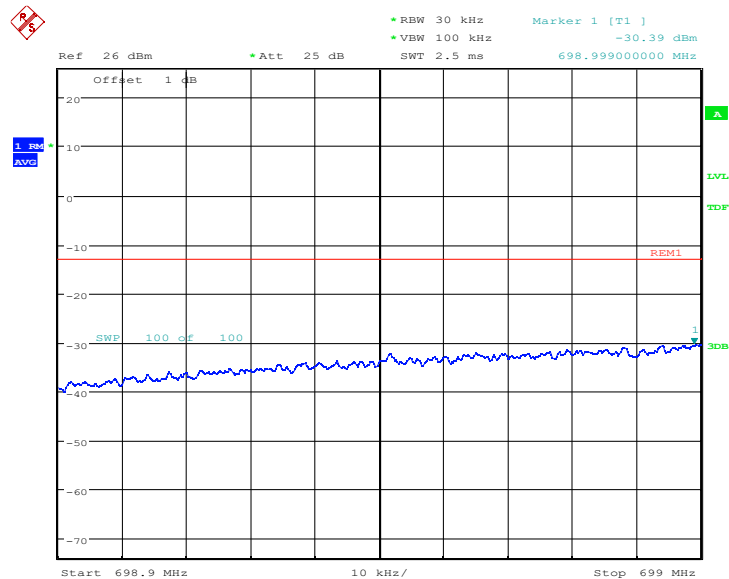
1.500 AVG

SWP 100 of 100

REM1

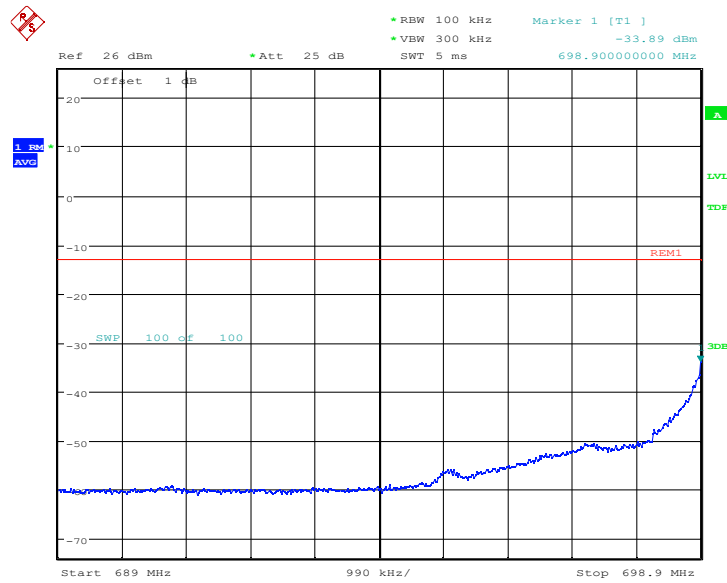
Start 716.1 MHz 990 kHz/ Stop 726 MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset



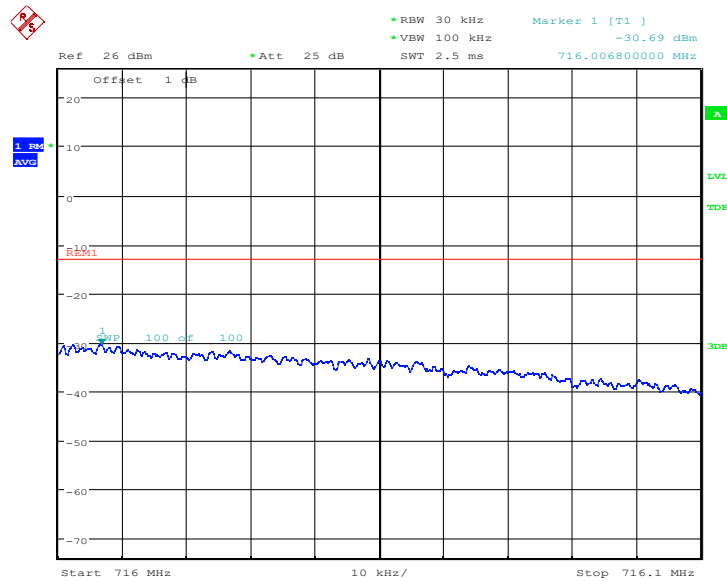
LOW BAND EDGE BLOCK-1RB-LOW_offset

FAX:0086-23-88608777



Date: 26.FEB.2023 11:24:41

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

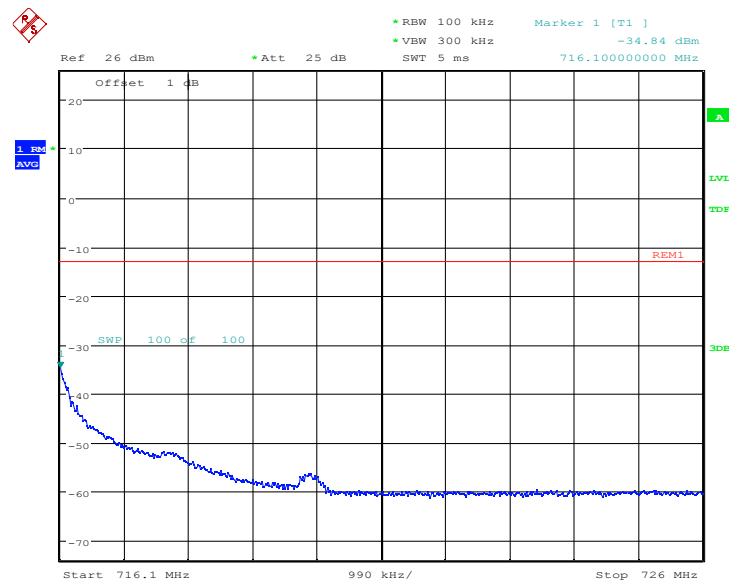


Date: 26.FEB.2023 11:26:56

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

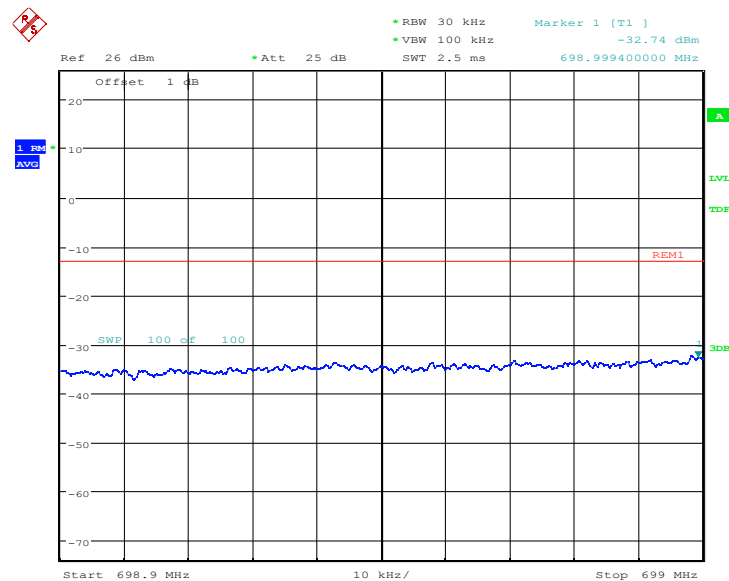
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Date: 26.FEB.2023 11:27:39

LOW BAND EDGE BLOCK-5M-100%RB

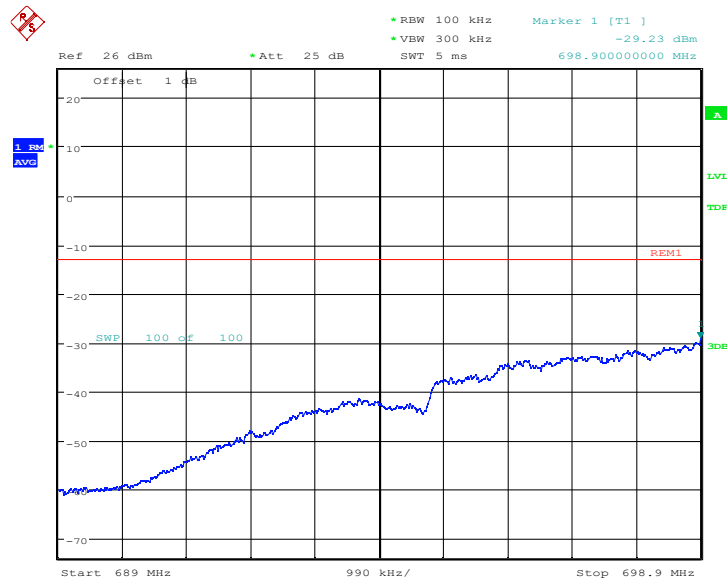


Date: 26.FEB.2023 11:25:25

LOW BAND EDGE BLOCK-5M-100%RB

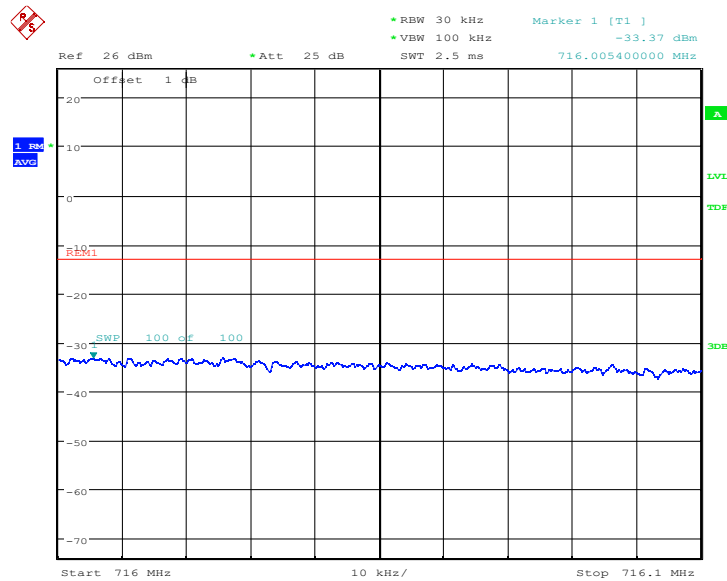
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Date: 26.FEB.2023 11:26:08

HIGH BAND EDGE BLOCK-5M-100%RB

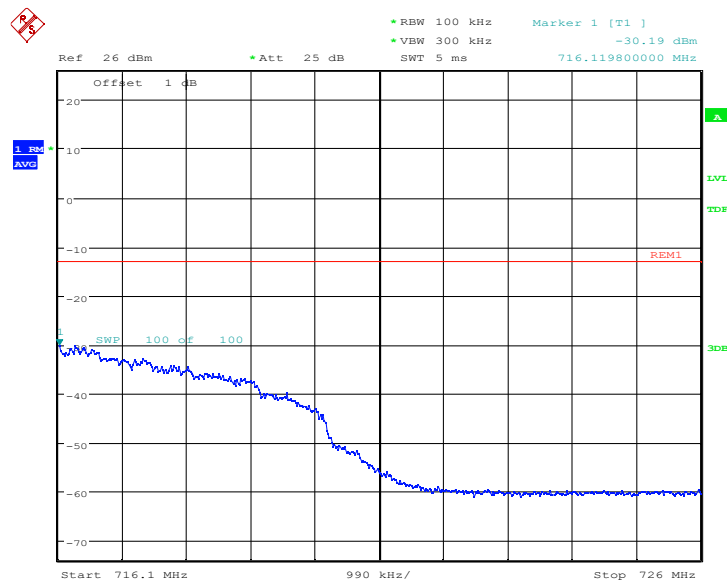


Date: 26.FEB.2023 11:28:22

HIGH BAND EDGE BLOCK-5M-100%RB

Chongqing Academy of Information and Communication Technology

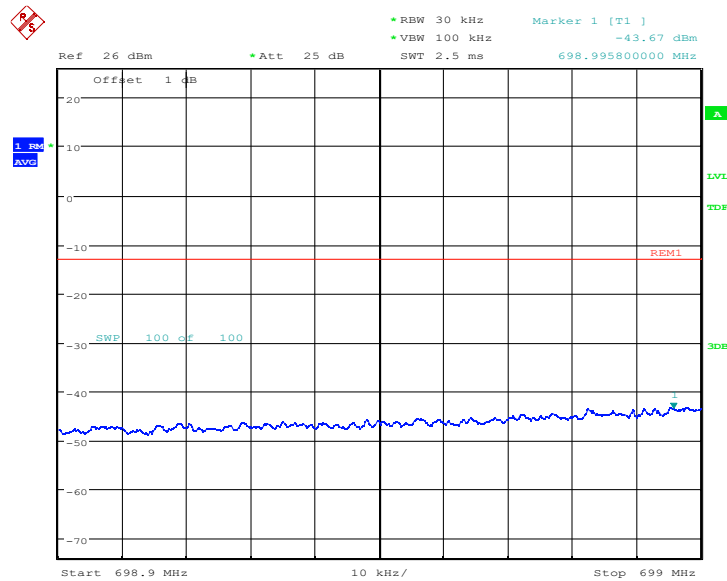
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Date: 26.FEB.2023 11:29:05

LTE band 12-10MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset

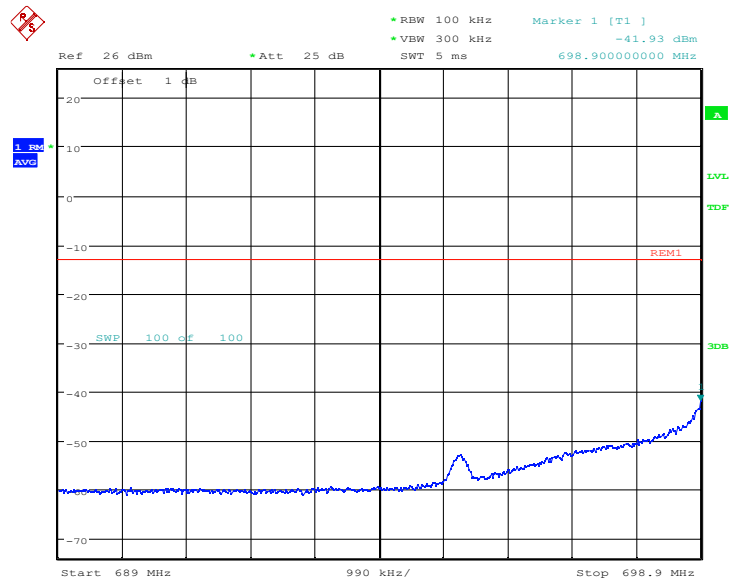


Date: 26.FEB.2023 11:30:51

LOW BAND EDGE BLOCK-1RB-LOW_offset

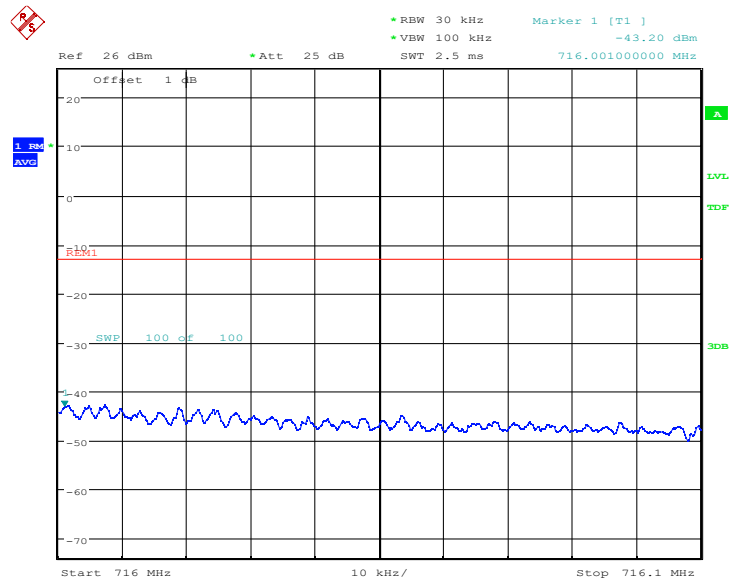
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Date: 26.FEB.2023 11:31:34

HIGH BAND EDGE BLOCK-1RB-HIGH_offset



Date: 26.FEB.2023 11:33:52

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

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Ref 26 dBm • Att 25 dB • RBW 100 kHz Marker 1 [T1] -43.03 dBm
 SWT 5 ms 716.10000000 MHz

Offset 1 dB

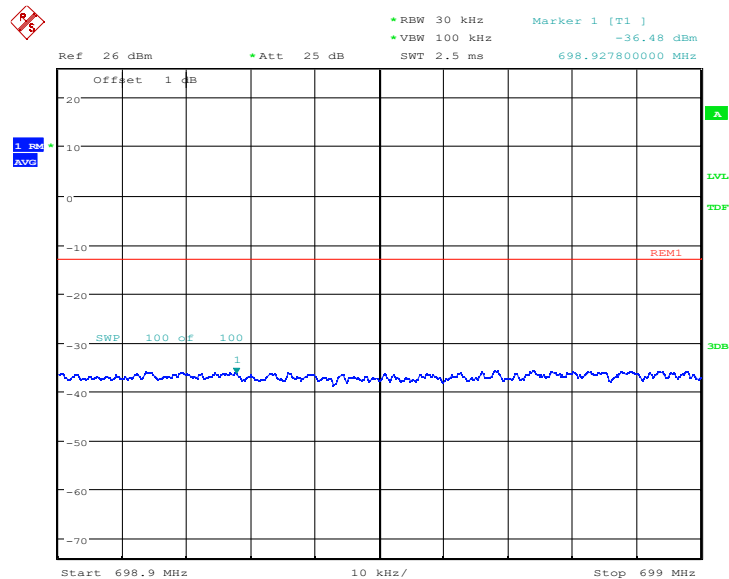
1.500
 AVG

SWP 100 of 100

REM1

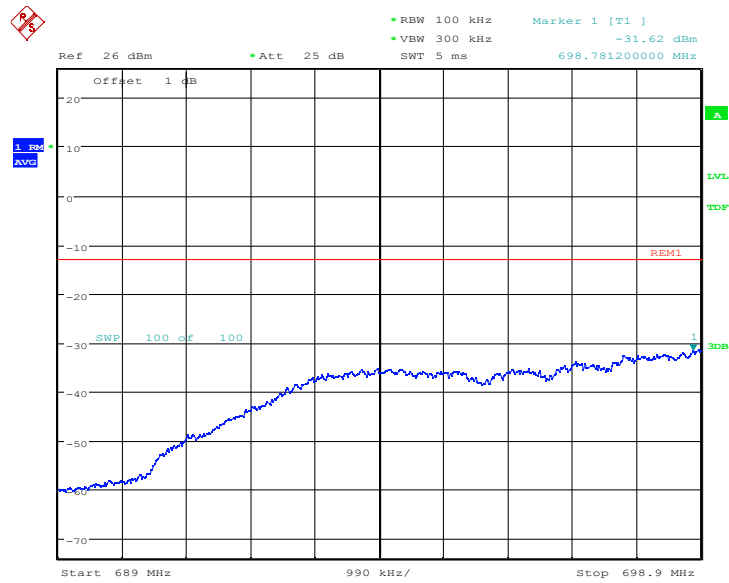
Start 716.1 MHz 990 kHz/ Stop 726 MHz

LOW BAND EDGE BLOCK-10M-100%RB



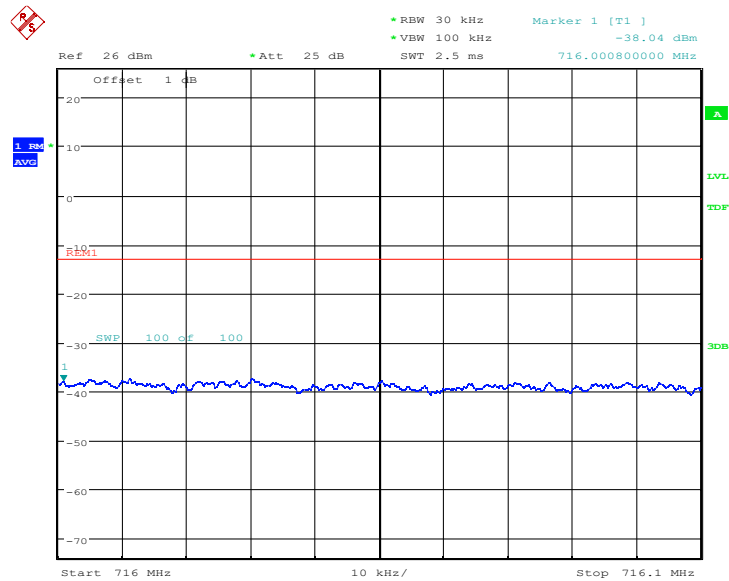
LOW BAND EDGE BLOCK-10M-100%RB

FAX:0086-23-88608777



Date: 26.FEB.2023 11:33:00

HIGH BAND EDGE BLOCK-10M-100%RB



Date: 26.FEB.2023 11:35:20

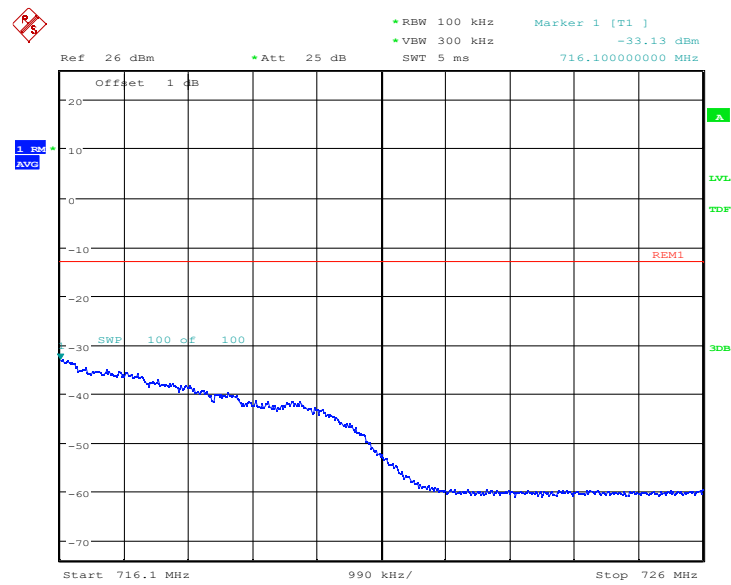
HIGH BAND EDGE BLOCK-10M-100%RB

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Report No.: I23W00004-LTE RF-Rev1



Date: 26.FEB.2023 11:36:03

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6.8. Frequency Stability

Specifications:	FCC Part 2.1055,24.235 27.54
DUT Serial Number:	IMEI:861475037109388
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit	
Frequency deviation [ppm]	±2.5

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	1.54 Hz (k=2)

Test Method

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage. Two reference points are established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as FL and FH respectively.

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of CMW500.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500, and in a simulated call on middle channel for each LTE band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.

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6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the center channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C increments from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

6.8.1 Frequency Stability over Temperature Variation Results

LTE band 2, 20MHz bandwidth MID,QPSK(worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	1880	-3.06	0.0016
50			-4.41	0.0023
40			-4.23	0.0023
30			-4.15	0.0022
10			-4.72	0.0025
0			-3.86	0.0021
-10			-3.68	0.0020
-20			-3.62	0.0019
-30			-3.83	0.0020

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.7	20	1880	-3.98	0.0021
4.2			-4.02	0.0021

LTE band 4, 20MHz bandwidth MID,QPSK(worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	1732.5	-0.50	0.0003
50			0.30	0.0002
40			0.06	0.0000
30			-0.11	0.0001
10			-0.69	0.0004
0			0.03	0.0000
-10			-0.39	0.0002
-20			-0.07	0.0000

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-30			0.06	0.0000
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Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.7	20	1732.5	-0.46	0.0003
4.2			0.07	0.0000

LTE band 12, 10MHz bandwidth MID,QPSK(worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	707.5	-1.33	0.0019
50			-0.62	0.0009
40			-1.19	0.0017
30			-0.59	0.0008
10			-1.07	0.0015
0			-1.43	0.0020
-10			-0.97	0.0014
-20			-1.52	0.0021
-30			-0.36	0.0005

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.7	20	707.5	-0.72	0.0010
4.2			-1.47	0.0021

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6.9. Peak to Average Ratio

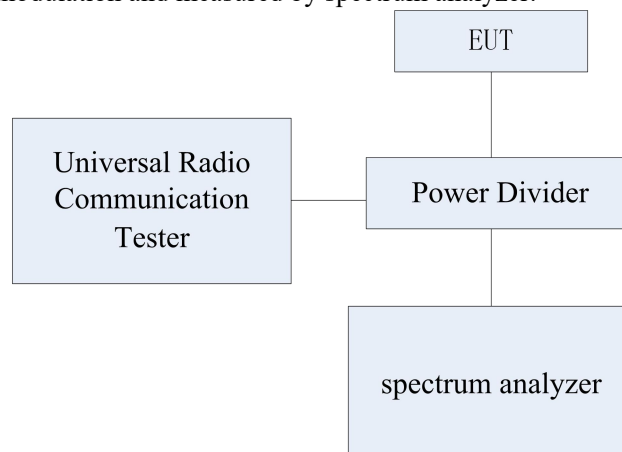
Specifications:	FCC Part 24.232, 27.50
DUT Serial Number:	IMEI:861475037109388
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

The EUT meets the requirement of having a peak to average ratio of less than 13dB.

Test Setup

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	0.22 dB (k=2)

Test Method

The transmitter output was connected to a CMW500 through a coaxial RF cable and directional coupler, and configured to operate at maximum power. The peak to average ratio was measured at the required operating frequencies in each Band on the Spectrum Analyzer.

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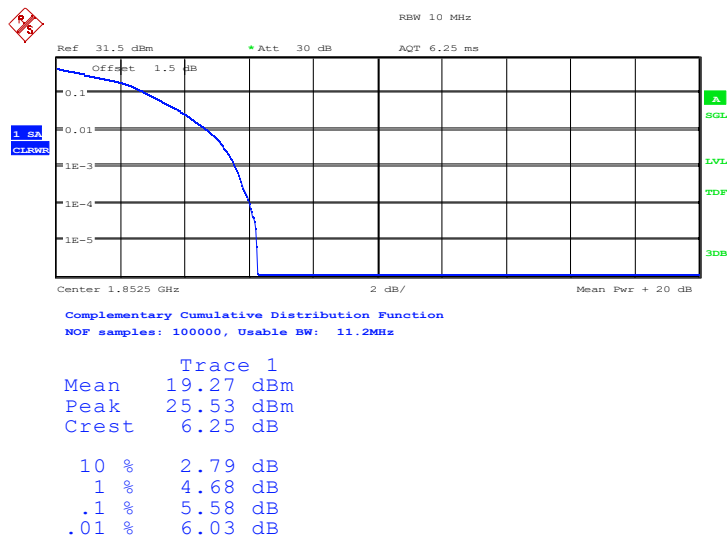
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6.9.1 Peak to Average Ratio Results

LTE Band 2, 5MHz

Frequency (MHz)	RB	PAPR (dB)
		16QAM
1852.5	100%,0	5.58
1880	100%,0	5.54
1907.5	100%,0	5.42

LTE band 2 , 5MHz Bandwidth,16QAM

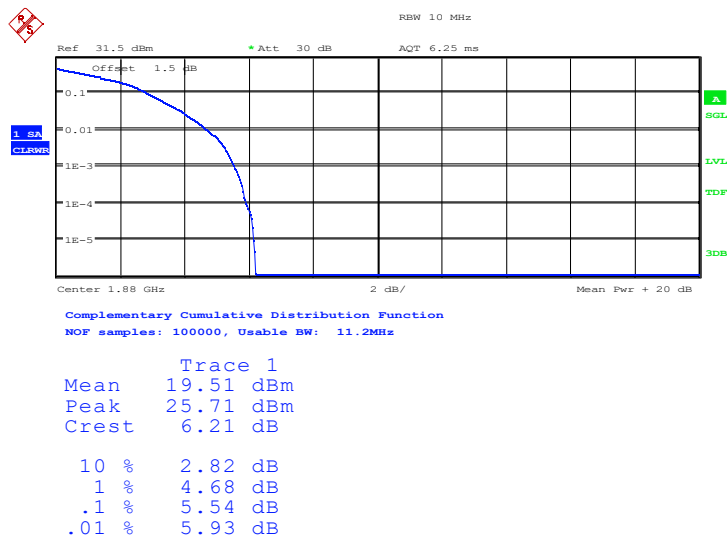


Date: 27.FEB.2023 05:18:07

LTE band 2 , 5MHz Bandwidth,16QAM

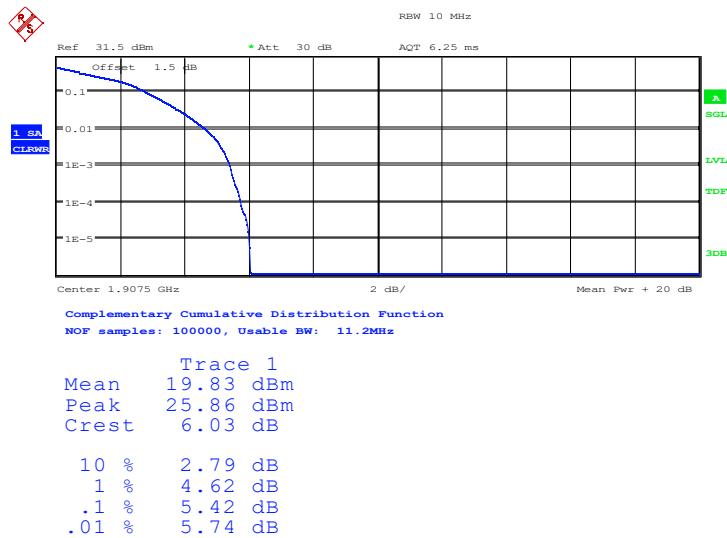
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Date: 27.FEB.2023 05:18:31

LTE band 2 , 5MHz Bandwidth,16QAM



Date: 27.FEB.2023 05:18:50

LTE Band 2, 20MHz

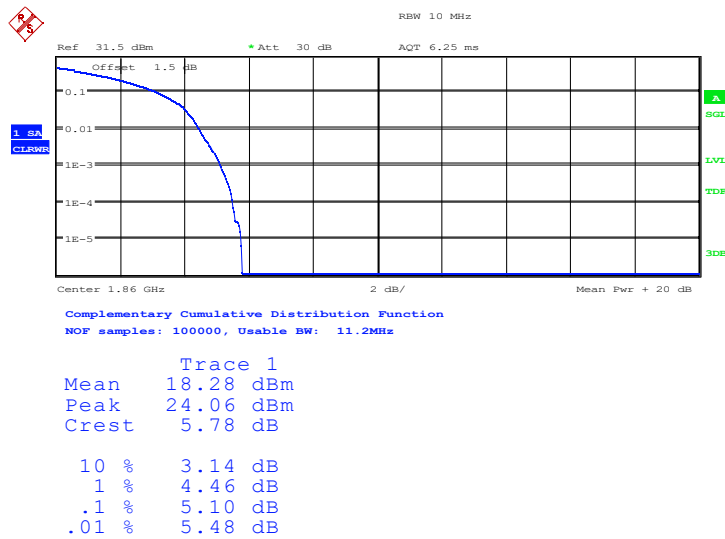
Frequency (MHz)	RB	PAPR (dB)
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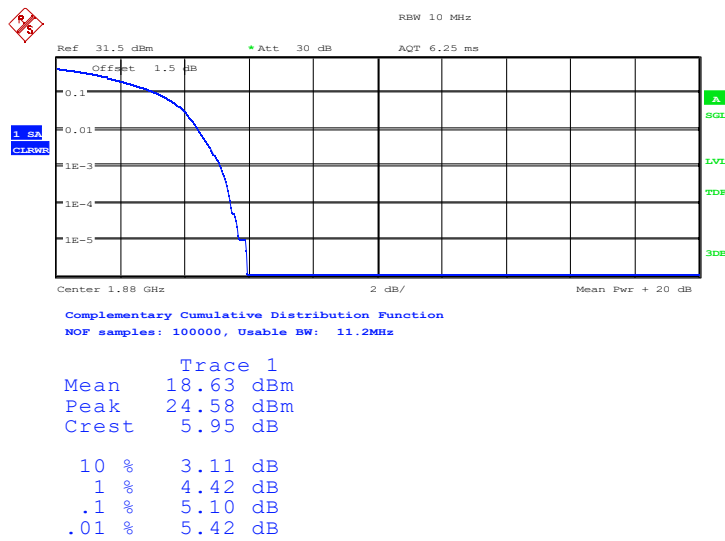
		QPSK
1860	100%,0	5.10
1880	100%,0	5.10
1900	100%,0	5.06

LTE band 2 , 20MHz Bandwidth,QPSK



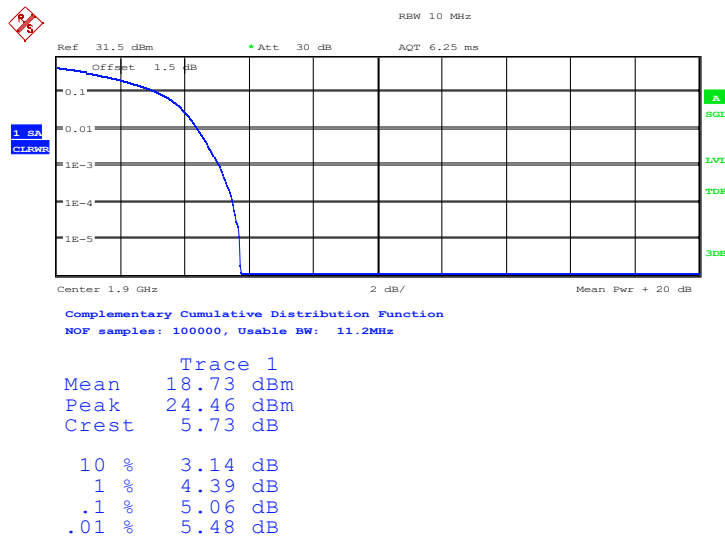
Date: 26.FEB.2023 11:59:36

LTE band 2 , 20MHz Bandwidth,QPSK



Date: 26.FEB.2023 11:59:59

LTE band 2 , 20MHz Bandwidth,QPSK



Date: 26.FEB.2023 12:00:20

LTE Band 4, 5MHz

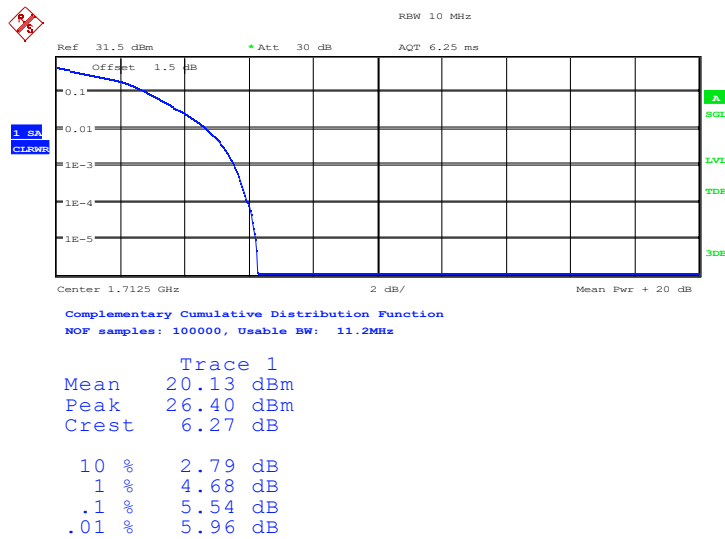
Frequency (MHz)	RB	PAPR (dB)
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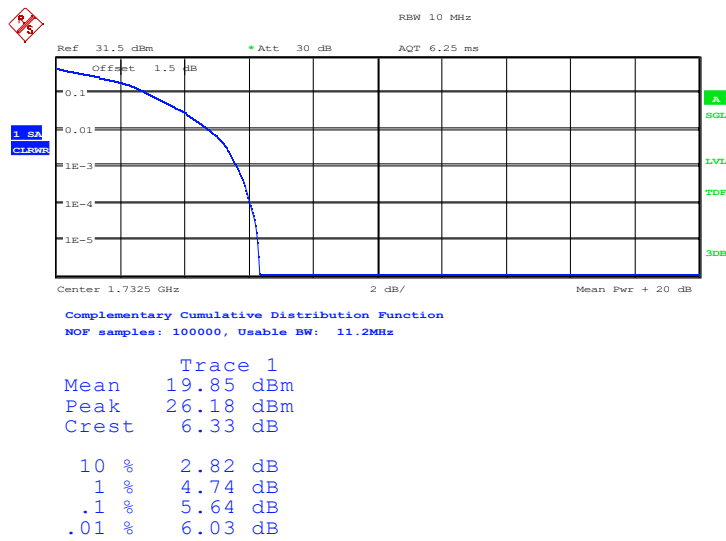
		16QAM
1712.5	100%,0	5.54
1732.5	100%,0	5.64
1752.5	100%,0	5.35

LTE band 4 , 5MHz Bandwidth,16QAM



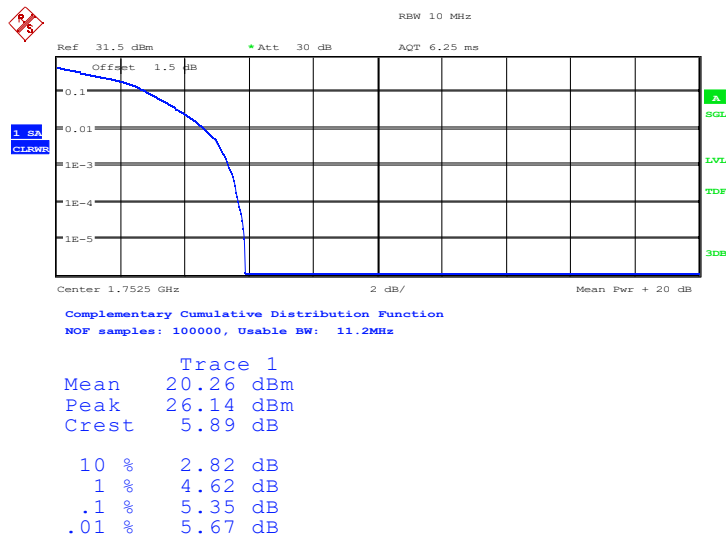
Date: 27.FEB.2023 05:19:12

LTE band 4 , 5MHz Bandwidth,16QAM



Date: 27.FEB.2023 05:19:33

LTE band 4 , 5MHz Bandwidth,16QAM



Date: 27.FEB.2023 05:19:56

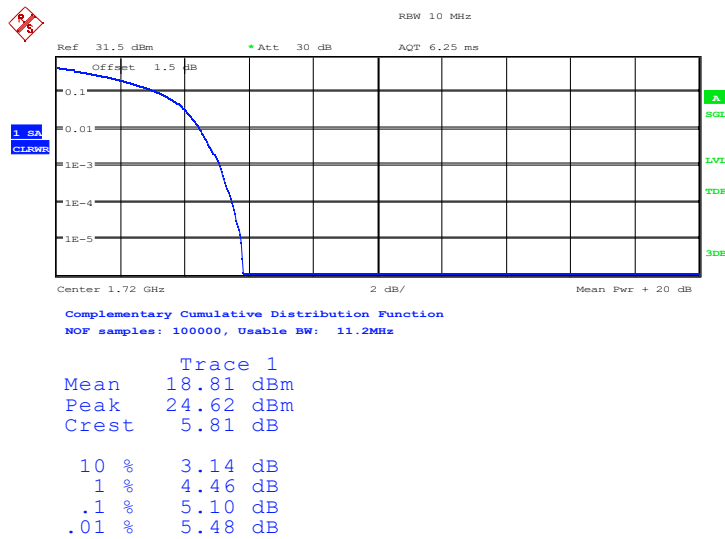
LTE Band 4, 20MHz

Frequency (MHz)	RB	PAPR (dB)
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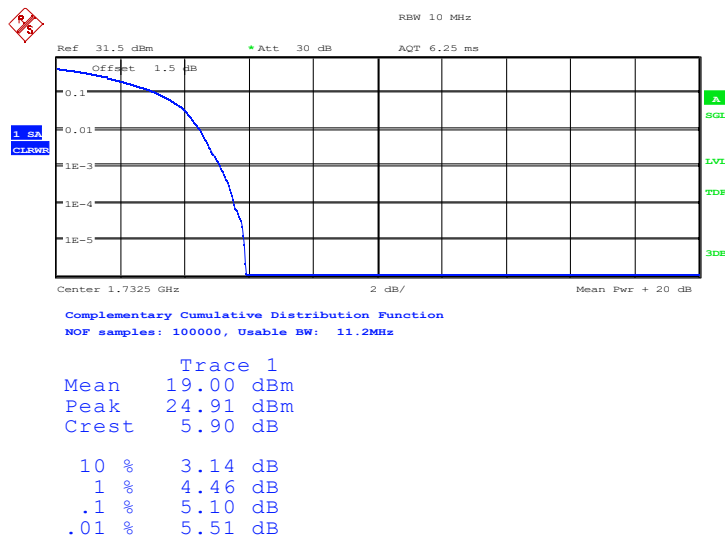
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		QPSK
1720	100%,0	5.10
1732.5	100%,0	5.10
1745	100%,0	5.03

LTE band 4 , 20MHz Bandwidth,QPSK


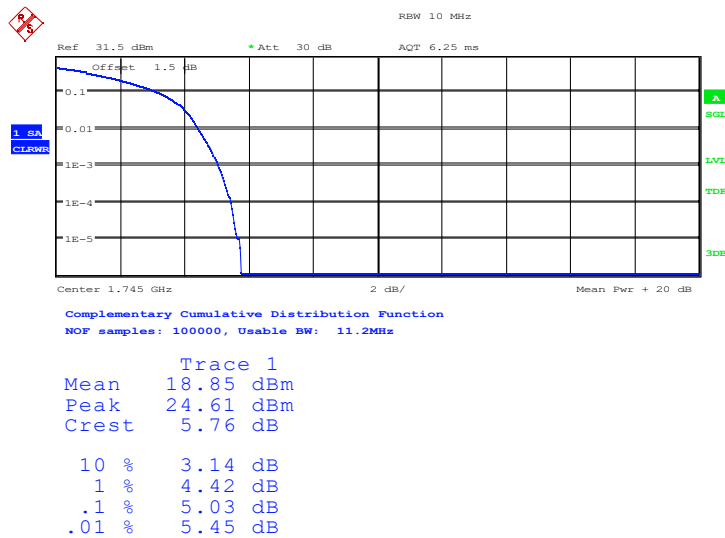
Date: 26.FEB.2023 12:00:45

LTE band 4 , 20MHz Bandwidth,QPSK



Date: 26.FEB.2023 12:01:06

LTE band 4 , 20MHz Bandwidth,QPSK



Date: 26.FEB.2023 12:01:28

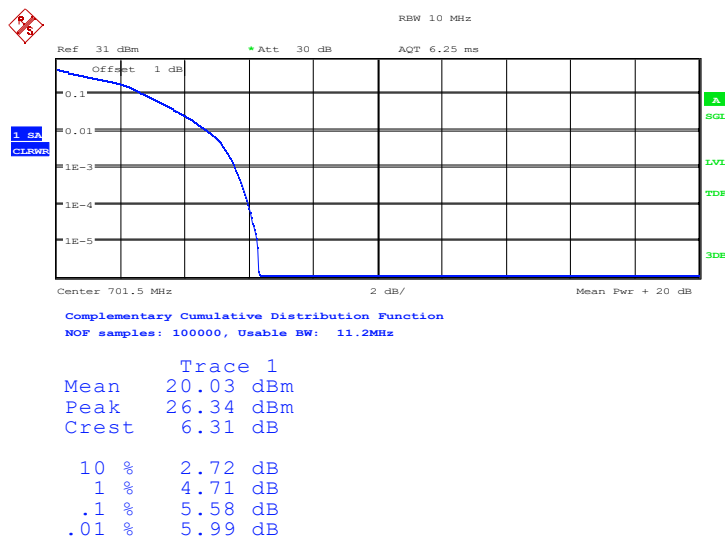
LTE Band 12, 5MHz

Frequency (MHz)	RB	PAPR (dB)
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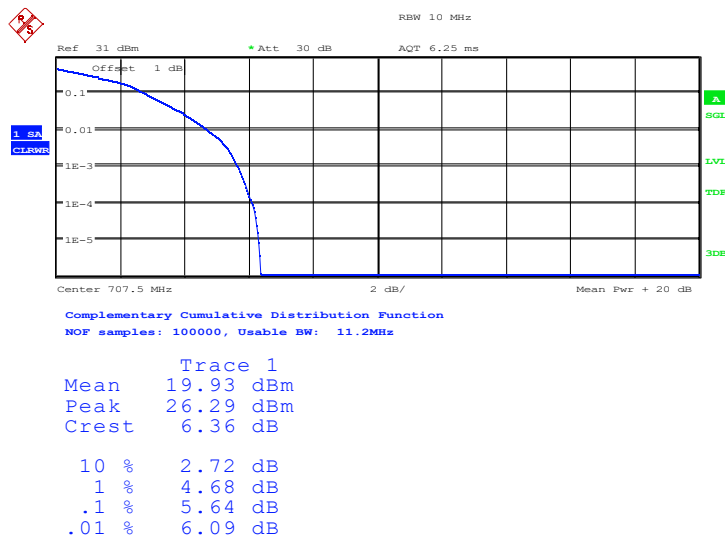
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		16QAM
701.5	100%,0	5.58
707.5	100%,0	5.64
713.5	100%,0	5.54

LTE band 12 , 5MHz Bandwidth,16QAM


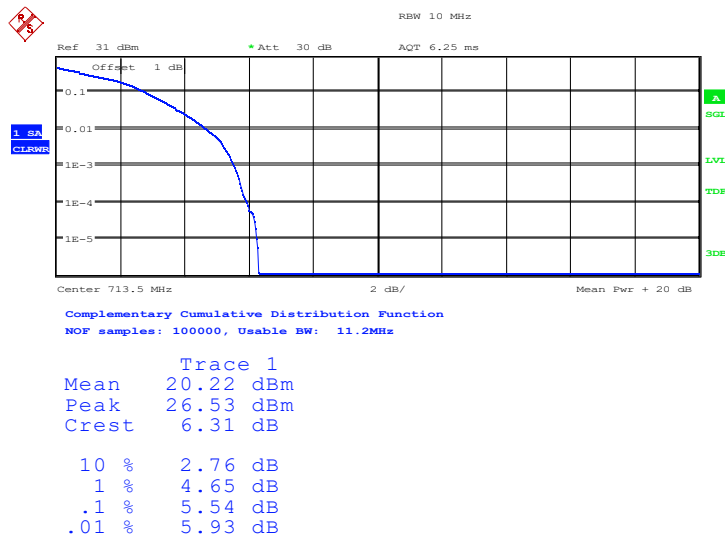
Date: 27.FEB.2023 05:21:01

LTE band 12 , 5MHz Bandwidth,16QAM



Date: 27.FEB.2023 05:21:23

LTE band 12 , 5MHz Bandwidth,16QAM



Date: 27.FEB.2023 05:21:48

LTE Band 12, 10MHz

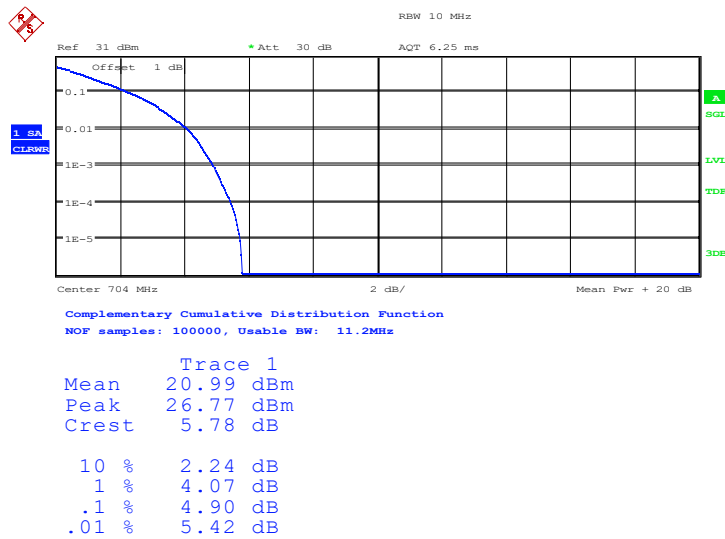
Frequency (MHz)	RB	PAPR (dB)
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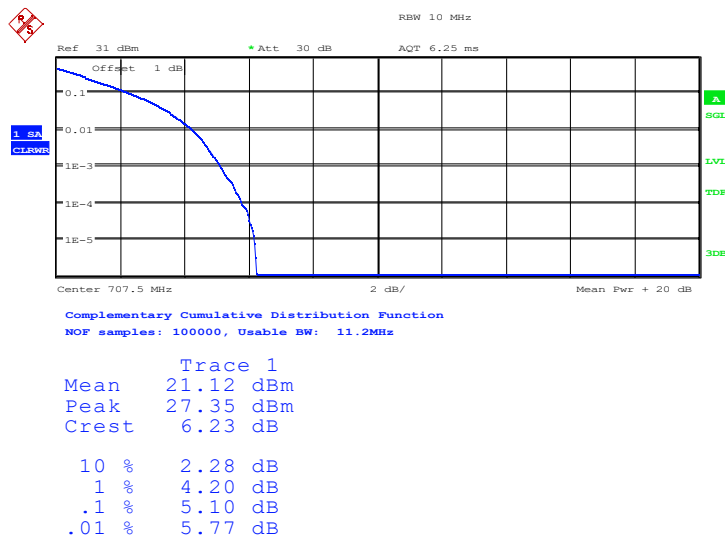
		QPSK
704	100%,0	4.90
707.5	100%,0	5.10
711	100%,0	4.94

LTE band 12 , 10MHz Bandwidth,QPSK



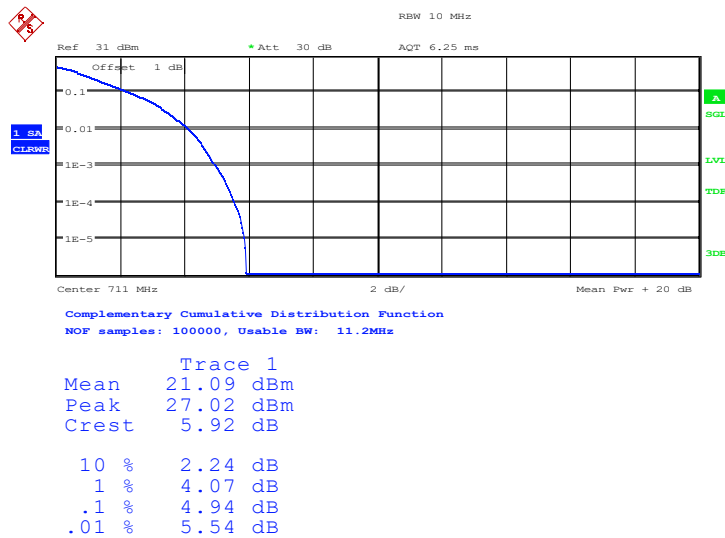
Date: 26.FEB.2023 12:02:27

LTE band 12 , 10MHz Bandwidth,QPSK



Date: 26.FEB.2023 12:02:46

LTE band 12 , 10MHz Bandwidth,QPSK



Date: 26.FEB.2023 12:03:03

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Annex A EUT Photos

See the document "I23W00004-External Photos".

See the document "I23W00004-Internal Photos".

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Report No.: I23W00004-LTE RF-Rev1

ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

*****END OF REPORT*****

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