



TEST REPORT

No. I22Z60589-WMD02

for

Sonim Technologies, Inc.

Smart phone

**Model Name: XP9900(P14001), XP9900(P14002), XP9900(P14003),
XP9900(P14004), XP9900(P14005), XP9900(P14006), XP9900(P14010)**

FCC ID: WYPP14010

with

Hardware Version: V1.0

Software Version: 10.0.0-01-12.0.0-10.60.10

Issued Date: 2022-08-04

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z60589-WMD02	Rev.0	1 st edition	2022-07-27
I22Z60589-WMD02	Rev.1	2 nd edition Update Client Information	2022-07-29
I22Z60589-WMD02	Rev.2	3 rd edition Added a description in chapter 6.	2022-08-04

Note: the latest revision of the test report supersedes all previous version.

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0 and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (CN0066). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Location 1: CTTL (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China 100191

Location 2: CTTL (BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology Development
Area, Beijing, P. R. China 100176

1.3. Testing Environment

Normal Temperature: 15-35℃
Relative Humidity: 20-75%

1.4. Project Data

Testing Start Date: 2022-04-20
Testing End Date: 2022-07-20

1.5. Signature



Dong Yuan
(Prepared this test report)



Zhou Yu
(Reviewed this test report)



Zhao Hui Lin
Deputy Director of the laboratory
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: Sonim Technologies, Inc.
Address /Post: 6500 River Place Blvd., Building 7, Suite 250, Austin, TX 78730, USA
Contact: Avena xu
Email: Avena.xu@sonimtech.com
Telephone: 1-650-378-8100

2.2. Manufacturer Information

Company Name: Sonim Technologies, Inc.
Address /Post: 6500 River Place Blvd., Building 7, Suite 250, Austin, TX 78730, USA
Contact: Avena xu
Email: Avena.xu@sonimtech.com
Telephone: 1-650-378-8100

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

3.1. About EUT

Description	Smart phone		
Model Name	XP9900(P14001), XP9900(P14004), XP9900(P14010)	XP9900(P14002), XP9900(P14005),	XP9900(P14003), XP9900(P14006),
FCC ID	WYPP14010		
Antenna	Embedded		
Output power	26.22dBm maximum EIRP measured for LTE Band 41		
Extreme vol. Limits	3.6VDC to 4.45VDC (nominal: 3.9VDC)		
Extreme temp. Tolerance	-20°C to +55°C		
Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL.			

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Date of receipt
UT75a	016188000003611	V1.0	10.0.0-01-12.0.0-10.60.10	2022-06-10
UT89a	016188000003595	V1.0	10.0.0-01-12.0.0-10.60.10	2022-06-10
UT13a	016188000001557	V1.0	10.0.0-01-12.0.0-10.60.10	2022-04-20

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

3.3. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery
AE1	
Model	BAT-05000-01S
Manufacturer	Dongguan Veken Battery Co., Ltd.
Capacitance	4850mAh

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

4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters are supplied by the client or manufacturer, which are the bases of testing.

4.2. Reference Documents for testing

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

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-20 Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-20 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-20 Edition
FCC Part 90	PRIVATE LAND MOBILE RADIO SERVICES	10-1-20 Edition
FCC Part 96	CITIZENS BROADBAND RADIO SERVICE	10-1-20 Edition
ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2016
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015
KDB 971168 D01	MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS	v03r01
KDB 940660 D01	CERTIFICATION AND TEST PROCEDURES FOR CITIZENS BROADBAND RADIO SERVICE DEVICES AUTHORIZED UNDER PART 96	v03

5. Laboratory Environment

Fully-anechoic chamber did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

Shielded room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω

6. Summary Of Test Result

LTE Band 7

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 12

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 13

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 14

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	90.542	P
2	Emission Limit	2.1051/90.543	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	2.1049	P
6	Band Edge Compliance	90.543	P
7	Conducted Spurious Emission	90.543	P

LTE Band 25 (2)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	24.232	P
2	Emission Limit	2.1051/24.238	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	24.238	P
6	Band Edge Compliance	24.238	P
7	Conducted Spurious Emission	24.238	P
8	Peak-to-Average Power Ratio	24.232	P

LTE Band 26(814MHz~824MHz)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	90.635	P
2	Emission Limit	2.1051/90.691	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	2.1049	P
6	Band Edge Compliance	90.691	P
7	Conducted Spurious Emission	90.691	P

LTE Band 26(824MHz~849MHz) (5)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	22.913	P
2	Emission Limit	2.1051/22.917	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	22.917	P
6	Band Edge Compliance	22.917	P
7	Conducted Spurious Emission	22.917	P

LTE Band 30

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 40(2305MHz~2315MHz)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 41 (38)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 48

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	96.41	P
2	Emission Limit	96.41	NA
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	96.41	P
6	Band Edge Compliance	96.41	P
7	Conducted Spurious Emission	96.41	P
8	Peak-to-Average Power Ratio	96.41	P
9	End User Device Additional Requirements (CBSD Protocol)	96.47	P

LTE Band 66 (4)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 71

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

Terms used in Verdict column

P	Pass. The EUT complies with the essential requirements in the standard.
NP	Not Performed. The test was not performed by CTTL.
NA	Not Applicable. The test was not applicable.
BR	Re-use test data from basic model report.
F	Fail. The EUT does not comply with the essential requirements in the standard.

All the test results are based on normal power.

All the test results are based on XP9900(P14001).

LTE Band 25, Band 66, Band 26 and Band 41 overlaps the entire frequency range of LTE Band 2, Band 4, Band 5 and Band 38. Therefore, test data provided in this report covers Band 2, Band 4, Band 5, Band 38 as well as Band 25, Band 66, Band 26, Band 41.

LTE Band 41 is tested by power class 2.

Explanation of worst-case configuration

The worst-case scenario for all measurements is based on the conducted output power measurement investigation results. Output power was measured on QPSK, 16QAM, 64QAM and 256QAM 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.

7. Test Equipment Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Wideband Radio Communication Tester	CMW500	159082	R&S	2023-01-17	25 months
Spectrum Analyzer	FSU	200030	R&S	2022-06-02	1 year
Spectrum Analyzer	FSU	200030	R&S	2023-05-25	1 year
Signal&Spectrum Analyzer	FSW	104038	R&S	2022-06-24	1 year
Signal&Spectrum Analyzer	FSW	104038	R&S	2023-06-20	1 year
Radio Communication Analyzer	MT8821C	6201763159	Anritsu	2022-08-09	1 year
Climate Chamber	SH-242	93008556	ESPEC	2023-12-23	3 years
Test Receiver	E4440A	MY48250642	Agilent	2023-03-10	1 year
Universal Radio Communication Tester	CMW500	143008	R&S	2022-12-01	1 year
EMI Antenna	VULB9163	9163-482	Schwarzbeck	2022-11-16	1 year
Signal Generator	SMF100A	101295	R&S	2022-12-23	1 year
EMI Antenna	3117	00058889	ETS-Lindgren	2022-11-07	1 year
EMI Antenna	LB-7180-NF	J203001300005	A-INFO	2023-02-23	1 year

Annex A: Measurement Results

A.1 Output Power

A.1.1 Summary

During the process of testing, the EUT was controlled via communication tester to ensure max power transmission and proper modulation.

In all cases, output power is within the specified limits.

A.1.2 Conducted

A.1.2.1 Method of Measurements

The EUT was set up for the max output power with pseudo random data modulation.

These measurements were done at 3 frequencies (bottom, middle and top of operational frequency range) for each bandwidth.

A.1.2.2 Measurement Result

LTE band 2

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1909.3	22.66	22.10	21.01	18.03
		1880.0	22.89	22.35	21.20	18.13
		1850.7	22.88	22.41	21.21	18.21
	1 RB low	1909.3	22.79	22.11	21.04	18.03
		1880.0	22.94	22.37	21.33	18.33
		1850.7	22.96	22.43	21.33	18.37
	50% RB mid	1909.3	22.81	21.99	20.87	17.88
		1880.0	23.12	22.20	21.03	18.03
		1850.7	23.14	22.15	21.09	18.16
	100% RB	1909.3	21.84	20.89	19.84	17.87
		1880.0	22.02	21.04	19.96	17.89
		1850.7	22.07	21.17	19.97	17.91
3MHz	1 RB high	1908.5	22.76	22.22	21.05	17.99
		1880.0	22.95	22.30	21.13	18.09
		1851.5	22.99	22.39	21.17	18.21
	1 RB low	1908.5	22.93	22.28	21.06	18.05
		1880.0	23.06	22.45	21.40	18.45
		1851.5	23.17	22.61	21.27	18.27
	50% RB mid	1908.5	21.92	21.02	19.96	18.01
		1880.0	22.08	21.14	20.12	18.09
		1851.5	22.13	21.22	20.10	18.13
	100% RB	1908.5	21.93	20.94	19.93	17.87
		1880.0	22.12	21.05	20.12	18.08

		1851.5	22.11	21.17	20.13	18.12
5MHz	1 RB high	1907.5	22.83	22.06	21.10	18.14
		1880.0	22.93	22.28	20.92	17.96
		1852.5	23.04	22.42	21.25	18.19
	1 RB low	1907.5	22.92	22.24	21.07	18.12
		1880.0	23.04	22.37	21.27	18.22
		1852.5	23.10	22.49	21.33	18.40
	50% RB mid	1907.5	21.92	20.98	20.00	18.05
		1880.0	22.14	21.17	20.13	18.20
		1852.5	22.17	21.23	20.11	18.07
	100% RB	1907.5	21.87	20.93	19.87	17.89
		1880.0	21.97	21.04	19.92	17.89
		1852.5	22.15	21.13	20.08	18.04
10MHz	1 RB high	1905.0	22.78	22.30	21.01	17.95
		1880.0	22.94	22.25	21.21	18.21
		1855.0	22.95	22.31	21.24	18.25
	1 RB low	1905.0	22.92	22.28	21.15	18.15
		1880.0	23.04	22.38	21.29	18.29
		1855.0	23.01	22.43	21.36	18.36
	50% RB mid	1905.0	22.00	21.03	20.00	17.95
		1880.0	22.05	21.09	20.05	18.04
		1855.0	22.17	21.23	20.15	18.20
	100% RB	1905.0	21.98	21.01	19.95	17.90
		1880.0	22.05	21.03	20.08	18.05
		1855.0	22.15	21.17	20.13	18.07
15MHz	1 RB high	1902.5	22.64	22.06	20.80	17.83
		1880.0	22.85	22.17	21.04	18.07
		1857.5	22.88	22.28	21.14	18.08
	1 RB low	1902.5	22.75	22.07	20.89	17.96
		1880.0	22.86	22.25	20.93	18.00
		1857.5	22.96	22.33	21.12	18.09
	50% RB mid	1902.5	21.83	20.86	19.83	17.79
		1880.0	21.93	20.95	19.89	17.87
		1857.5	21.99	21.05	20.04	18.00
	100% RB	1902.5	21.83	20.89	19.86	17.87
		1880.0	21.88	20.93	19.90	17.92
		1857.5	22.04	21.07	20.00	18.00
20MHz	1 RB high	1900.0	22.72	22.08	20.85	17.91
		1880.0	22.79	22.25	21.03	18.06
		1860.0	22.85	22.24	21.11	18.10
	1 RB low	1900.0	22.85	22.06	21.01	18.02
		1880.0	22.89	22.19	21.12	18.09
		1860.0	22.99	22.31	21.03	18.09

	50% RB mid	1900.0	21.88	20.90	19.86	17.87
		1880.0	21.94	20.90	19.94	17.89
		1860.0	22.06	21.06	19.97	18.01
	100% RB	1900.0	21.91	20.90	19.87	17.92
		1880.0	21.89	20.93	19.92	17.89
		1860.0	22.02	21.06	20.01	18.04

LTE band 4

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1754.3	22.77	22.21	21.14	18.10
		1732.5	22.81	22.09	21.12	18.13
		1710.7	22.78	22.16	20.48	17.51
	1 RB low	1754.3	22.80	22.23	21.02	17.98
		1732.5	22.82	22.26	20.90	17.96
		1710.7	22.77	22.24	21.09	18.06
	50% RB mid	1754.3	22.87	21.98	20.85	17.88
		1732.5	22.95	22.06	20.88	17.85
		1710.7	22.88	21.98	20.97	17.97
	100% RB	1754.3	21.87	20.92	19.72	17.73
		1732.5	21.92	20.94	19.81	17.80
		1710.7	21.86	20.93	19.76	17.72
3MHz	1 RB high	1753.5	22.87	22.25	20.90	17.94
		1732.5	22.93	22.31	21.02	17.99
		1711.5	22.90	22.20	21.04	18.04
	1 RB low	1753.5	22.94	22.33	20.88	17.91
		1732.5	22.88	22.29	20.94	17.97
		1711.5	22.85	22.24	21.02	18.07
	50% RB mid	1753.5	22.05	21.03	19.90	17.85
		1732.5	22.00	21.09	19.94	17.98
		1711.5	21.98	21.06	20.04	17.97
	100% RB	1753.5	21.97	21.02	19.91	17.95
		1732.5	21.93	20.95	19.87	17.88
		1711.5	21.97	20.99	19.94	17.91
5MHz	1 RB high	1752.5	22.93	22.33	20.96	17.89
		1732.5	22.98	22.41	20.99	17.93
		1712.5	22.78	22.35	20.84	17.88
	1 RB low	1752.5	22.99	22.35	21.06	18.00
		1732.5	22.97	22.31	20.96	18.00
		1712.5	22.92	22.39	21.03	18.03
	50% RB mid	1752.5	22.02	21.06	19.92	17.89
		1732.5	21.97	20.99	19.81	17.81
		1712.5	22.00	20.98	19.83	17.86
	100% RB	1752.5	22.00	21.03	19.85	17.86
		1732.5	21.94	20.97	19.81	17.75
		1712.5	21.99	21.00	19.85	17.82
10MHz	1 RB high	1750.0	22.83	22.25	20.94	17.93
		1732.5	22.82	22.20	21.08	18.06
		1715.0	22.77	22.24	20.93	17.93
	1 RB low	1750.0	22.92	22.28	20.97	17.94

		1732.5	22.93	22.36	20.92	17.90
		1715.0	22.87	22.31	21.12	18.11
		1750.0	22.00	20.98	19.84	17.87
	50% RB mid	1732.5	21.98	21.03	19.87	17.83
		1715.0	22.03	21.03	19.95	17.95
		1750.0	22.01	21.02	19.86	17.90
	100% RB	1732.5	21.96	20.95	19.83	17.86
		1715.0	22.00	21.01	19.91	17.95
		1750.0	22.01	21.02	19.86	17.90
15MHz	1 RB high	1747.5	22.73	22.15	20.75	17.82
		1732.5	22.71	22.14	20.94	18.01
		1717.5	22.61	22.01	20.81	17.75
	1 RB low	1747.5	22.78	22.13	20.76	17.69
		1732.5	22.81	22.18	20.79	17.84
		1717.5	22.76	22.07	20.66	17.69
	50% RB mid	1747.5	21.84	20.83	19.70	17.68
		1732.5	21.83	20.85	19.74	17.76
		1717.5	21.86	20.91	19.75	17.73
	100% RB	1747.5	21.80	20.78	19.63	17.69
		1732.5	21.84	20.79	19.68	17.63
		1717.5	21.81	20.84	19.73	17.80
20MHz	1 RB high	1745.0	22.73	22.13	20.81	17.80
		1732.5	22.70	22.03	20.78	17.81
		1720.0	22.68	22.04	20.62	17.66
	1 RB low	1745.0	22.88	22.27	20.76	17.72
		1732.5	22.80	22.13	20.82	17.87
		1720.0	22.75	22.18	20.85	17.88
	50% RB mid	1745.0	21.87	20.85	19.73	17.78
		1732.5	21.83	20.82	19.72	17.76
		1720.0	21.84	20.82	19.75	17.74
	100% RB	1745.0	21.85	20.80	19.65	17.65
		1732.5	21.84	20.83	19.70	17.70
		1720.0	21.80	20.85	19.73	17.66

LTE band 5

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	22.76	22.11	21.05	18.13
		836.5	22.89	22.37	20.82	18.07
		824.7	22.87	22.18	21.24	17.48
	1 RB low	848.3	22.83	22.17	21.15	18.06
		836.5	22.89	22.28	21.15	17.83
		824.7	22.92	22.25	21.31	18.08
	50% RB mid	848.3	22.87	22.01	21.10	17.85
		836.5	22.96	21.95	21.11	17.94
		824.7	23.01	22.09	21.15	17.94
	100% RB	848.3	21.90	21.00	19.98	17.75
		836.5	21.91	20.49	19.98	17.79
		824.7	21.97	21.05	20.03	17.89
3MHz	1 RB high	847.5	22.99	22.27	21.33	17.91
		836.5	23.03	22.47	21.38	18.07
		825.5	23.01	22.33	21.45	18.10
	1 RB low	847.5	22.97	22.39	21.31	17.84
		836.5	23.06	22.33	21.32	17.98
		825.5	23.04	22.43	21.35	17.95
	50% RB mid	847.5	22.01	21.10	20.13	17.93
		836.5	22.09	21.19	20.26	18.00
		825.5	22.10	21.12	20.15	18.11
	100% RB	847.5	22.01	21.04	20.12	17.92
		836.5	21.96	21.05	20.07	17.80
		825.5	22.07	21.09	20.11	17.93
5MHz	1 RB high	846.5	22.98	22.51	21.30	17.95
		836.5	23.08	22.54	21.37	18.06
		826.5	23.09	22.35	21.29	17.80
	1 RB low	846.5	22.98	22.29	21.15	18.08
		836.5	23.12	22.42	21.30	18.01
		826.5	23.09	22.44	21.35	17.96
	50% RB mid	846.5	22.03	21.01	20.04	17.89
		836.5	22.07	21.10	20.17	17.83
		826.5	22.14	21.15	20.16	17.82
	100% RB	846.5	21.97	21.03	20.08	17.84
		836.5	22.06	21.11	20.12	17.78
		826.5	22.14	21.15	20.14	17.88
10MHz	1 RB high	844.0	23.05	22.42	21.24	17.89
		836.5	23.05	22.40	21.45	18.13
		829.0	23.08	22.44	21.33	17.90
	1 RB low	844.0	23.00	22.38	21.31	18.02

		836.5	23.01	22.29	21.28	17.93
		829.0	23.04	22.35	21.28	18.09
	50% RB mid	844.0	22.20	21.19	20.24	17.78
		836.5	22.08	21.17	20.23	17.91
		829.0	22.20	21.21	20.27	17.90
	100% RB	844.0	22.20	21.19	20.25	17.84
		836.5	22.11	21.16	20.19	17.88
		829.0	22.19	21.21	20.23	17.86

LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	23.18	22.63	21.44	18.39
		2535.0	23.20	22.50	21.32	18.31
		2502.5	23.12	22.62	21.33	18.38
	1 RB low	2567.5	23.12	22.51	21.30	18.31
		2535.0	23.15	22.55	21.23	18.24
		2502.5	23.07	22.48	21.23	18.30
	50% RB mid	2567.5	22.34	21.29	20.23	18.23
		2535.0	22.23	21.25	20.18	18.17
		2502.5	22.22	21.26	20.21	18.28
	100% RB	2567.5	22.27	21.30	20.16	18.13
		2535.0	22.17	21.25	20.15	18.19
		2502.5	22.21	21.23	20.15	18.20
10MHz	1 RB high	2565.0	23.06	22.49	21.08	18.01
		2535.0	23.13	22.51	21.07	18.11
		2505.0	23.05	22.40	21.09	18.09
	1 RB low	2565.0	22.94	22.23	20.96	17.93
		2535.0	22.93	22.34	21.01	17.98
		2505.0	22.86	22.14	20.99	17.97
	50% RB mid	2565.0	22.24	21.24	20.04	18.11
		2535.0	22.15	21.13	19.98	18.00
		2505.0	22.10	21.12	20.00	18.03
	100% RB	2565.0	22.23	21.20	20.04	17.97
		2535.0	22.14	21.14	19.97	18.00
		2505.0	22.12	21.15	19.97	18.01
15MHz	1 RB high	2562.5	23.03	22.40	21.07	18.05
		2535.0	23.11	22.45	20.99	18.03
		2507.5	23.01	22.38	21.03	18.09
	1 RB low	2562.5	22.95	22.26	20.98	18.01
		2535.0	22.96	22.33	20.96	17.90
		2507.5	22.89	22.13	20.99	18.03
	50% RB mid	2562.5	22.20	21.20	20.03	18.02
		2535.0	22.12	21.12	19.96	18.01
		2507.5	22.04	21.04	19.98	18.01
	100% RB	2562.5	22.22	21.17	20.02	18.01
		2535.0	22.12	21.09	19.96	17.92
		2507.5	22.06	21.12	19.89	17.83
20MHz	1 RB high	2560.0	23.09	22.57	21.09	18.03
		2535.0	23.14	22.56	21.15	18.18
		2510.0	23.08	22.42	21.15	18.18
	1 RB low	2560.0	22.92	22.20	20.93	17.93

		2535.0	22.90	22.35	21.06	18.12
		2510.0	22.83	22.15	20.98	17.97
	50% RB mid	2560.0	22.28	21.27	20.05	18.06
		2535.0	22.17	21.14	20.00	17.97
		2510.0	22.16	21.19	20.01	17.96
	100% RB	2560.0	22.23	21.22	20.06	18.12
		2535.0	22.15	21.18	19.97	18.02
		2510.0	22.17	21.18	20.05	18.02

LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	22.71	22.11	20.91	17.96
		707.5	22.75	22.11	21.19	18.12
		699.7	22.66	22.08	21.03	17.99
	1 RB low	715.3	22.78	22.12	21.26	18.33
		707.5	22.76	22.10	21.13	18.13
		699.7	22.78	22.09	21.32	18.27
	50% RB mid	715.3	22.84	21.91	21.01	17.95
		707.5	22.86	21.96	21.06	18.12
		699.7	22.83	21.93	21.06	18.06
	100% RB	715.3	21.89	20.86	19.95	17.99
		707.5	21.87	20.82	19.90	17.86
		699.7	21.87	20.86	20.10	18.03
3MHz	1 RB high	714.5	22.85	22.13	21.18	18.20
		707.5	22.89	22.26	21.17	18.10
		700.5	22.77	22.07	21.02	18.06
	1 RB low	714.5	22.82	22.13	21.16	18.16
		707.5	22.88	22.15	21.10	18.17
		700.5	22.91	22.04	21.19	18.19
	50% RB mid	714.5	21.96	21.04	20.18	18.19
		707.5	21.95	21.06	20.04	17.99
		700.5	21.93	20.97	20.18	18.20
	100% RB	714.5	21.87	20.90	19.93	17.89
		707.5	21.88	20.95	20.03	18.09
		700.5	21.95	20.90	20.06	18.03
5MHz	1 RB high	713.5	22.88	22.23	21.03	18.04
		707.5	22.89	22.28	21.27	18.20
		701.5	22.89	22.20	21.13	18.10
	1 RB low	713.5	22.88	22.21	21.07	18.04
		707.5	22.86	22.28	20.99	18.02
		701.5	22.85	22.08	20.93	17.95
	50% RB mid	713.5	22.00	21.09	20.13	18.09
		707.5	21.96	21.00	20.07	18.01
		701.5	22.04	20.94	20.03	17.99
	100% RB	713.5	21.91	20.89	19.98	17.98
		707.5	21.93	20.89	20.02	18.06
		701.5	22.00	21.02	19.96	17.99
10MHz	1 RB high	711.0	22.96	22.35	21.18	18.21
		707.5	22.92	22.25	21.28	18.29
		704.0	22.98	22.33	21.20	18.21
	1 RB low	711.0	22.95	22.19	21.19	18.16

		707.5	22.89	22.17	21.18	18.25
		704.0	22.88	22.15	21.09	18.06
	50% RB mid	711.0	22.09	21.06	20.13	18.11
		707.5	22.00	20.97	20.14	18.07
		704.0	21.98	20.93	20.14	18.20
	100% RB	711.0	22.06	21.03	20.15	18.20
		707.5	21.96	20.95	20.10	18.09
		704.0	22.02	20.98	20.12	18.13

LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	22.93	22.33	21.15	18.21
		782.0	22.94	22.35	21.12	18.14
		779.5	23.00	22.32	21.21	18.14
	1 RB low	784.5	22.91	22.26	21.22	18.19
		782.0	23.00	22.36	21.13	18.15
		779.5	23.03	22.19	21.14	18.12
	50% RB mid	784.5	22.14	21.07	20.10	18.08
		782.0	22.00	21.07	20.07	18.11
		779.5	22.02	21.08	20.15	18.15
	100% RB	784.5	22.07	21.06	20.09	18.06
		782.0	22.01	21.01	19.97	17.92
		779.5	22.01	21.02	20.07	18.01
10MHz	1 RB high	782.0	22.91	22.24	21.28	18.23
	1 RB low	782.0	22.84	22.34	21.27	18.22
	50% RB mid	782.0	22.04	20.96	20.07	18.14
	100% RB	782.0	22.05	20.99	20.08	18.06

LTE band 14

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	795.5	22.84	22.21	21.11	18.10
		793.0	22.87	22.35	21.13	18.14
		790.5	23.00	22.24	21.11	18.07
	1 RB low	795.5	22.94	22.31	21.24	18.20
		793.0	22.98	22.41	21.16	18.17
		790.5	23.01	22.39	21.31	18.27
	50% RB mid	795.5	22.03	21.03	20.08	18.06
		793.0	22.03	21.00	20.01	17.97
		790.5	22.11	21.08	20.19	18.26
	100% RB	795.5	21.99	20.97	20.04	17.97
		793.0	21.93	20.92	19.93	17.93
		790.5	22.12	21.08	20.01	17.96
10MHz	1 RB high	793.0	22.81	22.20	21.15	18.11
	1 RB low	793.0	22.95	22.47	21.15	18.17
	50% RB mid	793.0	21.99	20.98	20.01	18.01
	100% RB	793.0	21.98	20.99	20.04	18.06

LTE band 25

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	22.68	22.28	20.94	17.94
		1882.5	22.85	22.26	21.23	18.17
		1850.7	22.92	22.39	20.74	17.81
	1 RB low	1914.3	22.74	22.19	20.98	17.94
		1882.5	22.90	22.33	21.06	18.04
		1850.7	22.93	22.36	20.78	17.82
	50% RB mid	1914.3	22.84	21.91	20.94	18.01
		1882.5	22.96	22.06	21.08	18.10
		1850.7	23.17	22.17	20.77	17.81
	100% RB	1914.3	21.84	20.93	19.88	17.92
		1882.5	21.98	21.03	19.84	17.80
		1850.7	22.09	21.14	19.66	17.60
3MHz	1 RB high	1913.5	22.85	22.34	21.10	18.14
		1882.5	23.01	22.48	21.04	18.00
		1851.5	23.08	22.38	21.02	18.07
	1 RB low	1913.5	22.86	22.09	21.10	18.05
		1882.5	23.01	22.30	21.10	18.05
		1851.5	23.14	22.47	20.81	17.76
	50% RB mid	1913.5	21.94	21.05	19.96	17.94
		1882.5	22.10	21.11	20.04	18.06
		1851.5	22.16	21.26	19.85	17.86
	100% RB	1913.5	21.93	20.93	19.89	17.90
		1882.5	22.07	21.05	20.01	17.97
		1851.5	22.18	21.16	19.78	17.85
5MHz	1 RB high	1912.5	22.85	22.14	20.88	17.85
		1882.5	23.02	22.46	21.13	18.17
		1852.5	23.13	22.59	21.25	18.24
	1 RB low	1912.5	22.87	22.25	20.94	17.99
		1882.5	23.09	22.39	21.05	18.02
		1852.5	23.16	22.53	20.77	17.70
	50% RB mid	1912.5	21.97	20.97	19.90	17.94
		1882.5	22.10	21.10	20.01	17.95
		1852.5	22.17	21.23	19.87	17.94
	100% RB	1912.5	21.94	20.98	19.80	17.75
		1882.5	22.08	21.09	19.95	17.89
		1852.5	22.19	21.17	19.87	17.94
10MHz	1 RB high	1910.0	22.78	22.22	21.03	18.01
		1882.5	22.95	22.32	21.06	18.06
		1855.0	23.03	22.42	21.07	18.01
	1 RB low	1910.0	22.84	22.30	21.03	18.03

		1882.5	22.95	22.38	20.96	18.02
		1855.0	23.04	22.42	20.88	17.90
	50% RB mid	1910.0	22.00	21.07	19.95	17.99
		1882.5	22.09	21.13	20.04	17.98
		1855.0	22.21	21.25	20.14	18.08
	100% RB	1910.0	21.97	21.07	19.93	17.92
		1882.5	21.99	21.04	19.94	18.01
		1855.0	22.20	21.22	20.11	18.11
15MHz	1 RB high	1907.5	22.58	22.04	20.81	17.82
		1882.5	22.73	22.02	20.77	17.82
		1857.5	22.87	22.17	20.86	17.89
	1 RB low	1907.5	22.68	22.07	20.82	17.89
		1882.5	22.86	22.21	20.93	18.00
		1857.5	22.93	22.37	20.83	17.87
	50% RB mid	1907.5	21.89	20.88	19.80	17.87
		1882.5	21.96	21.00	19.88	17.86
		1857.5	22.03	21.08	19.94	17.95
	100% RB	1907.5	21.87	20.90	19.77	17.77
		1882.5	21.91	20.86	19.77	17.78
		1857.5	21.97	21.00	19.88	17.85
20MHz	1 RB high	1905.0	22.60	22.12	20.70	17.69
		1882.5	22.70	22.06	20.76	17.72
		1860.0	22.74	22.09	20.86	17.93
	1 RB low	1905.0	22.73	22.05	20.84	17.89
		1882.5	22.87	22.23	20.86	17.92
		1860.0	22.90	22.28	20.75	17.75
	50% RB mid	1905.0	21.85	20.88	19.76	17.76
		1882.5	21.88	20.88	19.77	17.80
		1860.0	21.95	21.00	19.88	17.94
	100% RB	1905.0	21.85	20.89	19.76	17.77
		1882.5	21.84	20.89	19.78	17.71
		1860.0	21.94	20.96	19.88	17.90

LTE band 26(814MHz~824MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	22.61	21.83	20.87	17.73
		819.0	22.63	21.86	20.66	17.75
		814.7	22.62	21.71	21.09	17.72
	1 RB low	823.3	22.57	21.85	20.81	17.72
		819.0	22.62	21.85	20.63	17.72
		814.7	22.65	21.74	21.09	17.79
	50% RB mid	823.3	22.67	21.96	20.88	17.80
		819.0	22.67	21.93	20.71	17.76
		814.7	22.69	21.77	21.07	17.79
	100% RB	823.3	21.70	20.61	20.03	17.76
		819.0	21.72	20.90	19.80	17.64
		814.7	21.72	20.93	19.74	17.75
3MHz	1 RB high	822.5	22.71	21.79	20.68	17.74
		819.0	22.70	21.83	20.67	17.71
		815.5	22.76	21.89	20.71	17.79
	1 RB low	822.5	22.71	21.81	20.65	17.64
		819.0	22.72	21.89	20.71	17.73
		815.5	22.79	21.95	20.81	17.78
	50% RB mid	822.5	21.73	20.81	19.73	17.80
		819.0	21.72	20.84	19.71	17.77
		815.5	21.81	20.90	19.78	17.85
	100% RB	822.5	21.76	20.82	19.86	17.72
		819.0	21.73	20.71	19.82	17.70
		815.5	21.84	20.78	19.88	17.78
5MHz	1 RB high	821.5	22.71	21.85	20.91	17.76
		819.0	22.70	21.84	20.91	17.81
		816.5	22.71	21.66	20.84	17.86
	1 RB low	821.5	22.74	21.84	20.89	17.72
		819.0	22.73	21.84	20.99	17.82
		816.5	22.79	21.73	20.91	17.91
	50% RB mid	821.5	21.82	20.92	19.89	17.89
		819.0	21.82	20.88	19.88	17.87
		816.5	21.83	20.92	19.92	17.92
	100% RB	821.5	21.80	20.82	19.80	17.82
		819.0	21.81	20.76	19.81	17.75
		816.5	21.83	20.84	19.87	17.85
10MHz	1 RB high	819.0	22.71	21.81	20.68	17.80
	1 RB low	819.0	22.73	21.80	20.74	17.80
	50% RB mid	819.0	22.75	21.79	20.68	17.78
	100% RB	819.0	22.82	21.94	20.77	17.85

LTE band 26(824MHz~849MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	22.45	21.79	20.70	17.71
		836.5	22.59	21.82	20.82	17.64
		824.7	22.61	21.66	21.08	17.92
	1 RB low	848.3	22.51	21.80	20.72	17.64
		836.5	22.59	21.83	20.86	17.64
		824.7	22.58	21.67	21.03	17.78
	50% RB mid	848.3	22.52	21.66	20.94	17.69
		836.5	22.64	21.75	20.99	17.85
		824.7	22.64	21.98	20.87	17.79
	100% RB	848.3	21.59	20.79	19.63	17.65
		836.5	21.70	20.87	19.66	17.74
		824.7	21.71	20.62	20.00	17.69
3MHz	1 RB high	847.5	22.59	21.64	20.62	17.67
		836.5	22.69	21.73	20.65	17.77
		825.5	22.74	22.06	21.02	17.79
	1 RB low	847.5	22.66	21.72	20.74	17.74
		836.5	22.71	21.81	20.64	17.68
		825.5	22.78	21.97	20.97	17.73
	50% RB mid	847.5	21.69	20.78	19.63	17.74
		836.5	21.74	20.84	19.73	17.83
		825.5	21.76	20.83	19.73	17.82
	100% RB	847.5	21.66	20.66	19.69	17.76
		836.5	21.75	20.71	19.82	17.79
		825.5	21.74	20.72	19.82	17.77
5MHz	1 RB high	846.5	22.61	21.80	20.84	17.79
		836.5	22.71	21.79	20.88	17.82
		826.5	22.77	21.82	20.98	17.86
	1 RB low	846.5	22.71	21.87	20.90	17.82
		836.5	22.70	21.84	20.89	17.77
		826.5	22.77	21.88	20.92	17.79
	50% RB mid	846.5	21.77	20.78	19.82	17.85
		836.5	21.81	20.85	19.87	17.90
		826.5	21.80	20.90	19.90	17.93
	100% RB	846.5	21.76	20.68	19.75	17.77
		836.5	21.81	20.77	19.79	17.82
		826.5	21.82	20.80	19.87	17.79
10MHz	1 RB high	844.0	22.69	21.78	20.60	17.76
		836.5	22.70	21.78	20.69	17.78
		829.0	22.73	21.84	20.68	17.75
	1 RB low	844.0	22.77	21.80	20.65	17.75

		836.5	22.77	21.84	20.72	17.72
		829.0	22.79	21.87	20.67	17.73
	50% RB mid	844.0	21.79	20.86	19.96	17.80
		836.5	21.82	20.97	19.93	17.89
		829.0	21.86	20.91	19.95	17.92
	100% RB	844.0	21.75	20.82	19.82	17.75
		836.5	21.85	20.90	19.90	17.80
		829.0	21.89	20.93	19.92	17.85
	15MHz	1 RB high	841.5	22.55	22.00	21.00
			836.5	22.65	22.09	21.08
			831.5	22.63	22.10	21.06
		1 RB low	841.5	22.67	22.14	21.07
			836.5	22.65	22.11	21.10
			831.5	22.63	22.08	21.03
		50% RB mid	841.5	21.69	20.70	19.74
			836.5	21.71	20.65	19.73
			831.5	21.74	20.63	19.78
		100% RB	841.5	21.72	20.69	19.74
			836.5	21.72	20.74	19.80
			831.5	21.67	20.65	19.76

LTE band 30

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2312.5	22.84	22.26	20.78	18.12
		2310.0	22.90	22.25	20.77	18.00
		2307.5	22.90	22.37	20.90	18.24
	1 RB low	2312.5	22.92	22.31	20.83	18.20
		2310.0	22.90	22.31	20.84	18.12
		2307.5	22.84	22.27	20.88	18.20
	50% RB mid	2312.5	21.96	21.00	19.75	18.00
		2310.0	21.96	21.02	19.80	18.03
		2307.5	22.05	21.10	19.86	18.18
	100% RB	2312.5	21.87	20.92	19.66	17.99
		2310.0	21.95	20.96	19.69	18.06
		2307.5	22.08	20.95	19.76	18.09
10MHz	1 RB high	2310.0	22.82	22.21	20.94	18.01
	1 RB low	2310.0	22.90	22.24	20.83	18.15
	50% RB mid	2310.0	21.92	20.95	19.73	18.25
	100% RB	2310.0	21.92	20.93	19.70	18.14

LTE band 40(2305MHz~2315MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2312.5	22.72	22.17	21.22	18.08
		2310.0	22.70	22.20	21.20	18.20
		2307.5	22.72	22.05	21.21	18.15
	1 RB low	2312.5	22.66	22.16	21.14	17.93
		2310.0	22.66	22.13	21.12	17.99
		2307.5	22.68	21.99	21.11	18.10
	50% RB mid	2312.5	21.67	20.84	19.68	17.88
		2310.0	21.69	20.81	19.70	17.86
		2307.5	21.68	20.82	19.67	17.78
	100% RB	2312.5	21.68	20.74	19.56	17.74
		2310.0	21.69	20.72	19.55	17.73
		2307.5	21.64	20.67	19.54	17.72

LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	26.03	25.41	24.22	21.15
		2593.0	26.03	25.32	24.27	21.34
		2498.5	25.94	25.21	24.16	21.20
	1 RB low	2687.5	25.95	25.34	24.23	21.25
		2593.0	25.94	25.40	24.23	21.22
		2498.5	25.93	25.22	24.15	21.21
	50% RB mid	2687.5	25.15	24.33	23.26	21.30
		2593.0	25.15	24.36	23.27	21.34
		2498.5	25.08	24.13	23.21	21.28
	100% RB	2687.5	25.11	24.23	23.26	21.31
		2593.0	25.16	24.20	23.24	21.22
		2498.5	25.04	24.13	23.18	21.11
10MHz	1 RB high	2685.0	26.07	25.32	24.25	21.24
		2593.0	25.99	25.34	24.14	21.08
		2501.0	26.04	25.31	24.18	21.20
	1 RB low	2685.0	26.07	25.33	24.25	21.25
		2593.0	26.13	25.40	24.27	21.23
		2501.0	26.05	25.38	24.27	21.22
	50% RB mid	2685.0	25.21	24.26	23.31	21.25
		2593.0	25.21	24.23	23.32	21.35
		2501.0	25.13	24.14	23.26	21.33
	100% RB	2685.0	25.20	24.26	23.27	21.21
		2593.0	25.26	24.27	23.26	21.20
		2501.0	25.11	24.14	23.18	21.14
15MHz	1 RB high	2682.5	25.92	25.18	23.95	21.00
		2593.0	25.89	25.22	24.31	21.25
		2503.5	25.78	25.06	23.80	21.18
	1 RB low	2682.5	25.88	25.23	23.98	21.02
		2593.0	25.87	25.22	24.00	21.03
		2503.5	25.77	25.05	23.90	20.91
	50% RB mid	2682.5	25.00	24.01	23.07	21.07
		2593.0	25.07	24.03	23.06	21.13
		2503.5	24.90	23.88	22.91	20.86
	100% RB	2682.5	25.04	24.10	23.08	21.05
		2593.0	25.05	24.08	23.10	21.15
		2503.5	24.95	23.94	22.91	21.05
20MHz	1 RB high	2680.0	25.84	25.16	23.88	21.04
		2593.0	25.95	25.28	23.98	21.11
		2506.0	25.80	25.08	23.85	21.04
	1 RB low	2680.0	25.91	25.24	24.06	21.04

		2593.0	25.89	25.24	24.04	21.39
		2506.0	25.73	25.05	23.81	21.25
	50% RB mid	2680.0	25.05	24.06	23.12	21.15
		2593.0	25.07	24.13	23.11	21.18
		2506.0	25.02	24.00	23.02	21.03
	100% RB	2680.0	25.07	24.09	23.05	21.11
		2593.0	25.09	24.10	23.09	21.11
		2506.0	25.02	23.99	23.01	21.06

LTE band 48

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3697.5	22.99	22.07	20.84	17.87
		3625.0	22.72	21.94	20.80	18.32
		3552.5	22.98	22.13	20.87	17.87
	1 RB low	3697.5	22.95	21.98	20.85	17.91
		3625.0	22.64	21.80	20.65	18.12
		3552.5	22.87	22.01	20.85	17.98
	50% RB mid	3697.5	22.03	21.02	20.16	18.23
		3625.0	21.76	20.99	19.75	17.96
		3552.5	22.05	21.07	20.17	18.12
	100% RB	3697.5	21.97	21.03	20.11	18.13
		3625.0	21.76	20.80	19.65	17.83
		3552.5	22.07	21.01	20.18	18.23
10MHz	1 RB high	3695.0	22.99	22.07	21.04	18.11
		3625.0	22.75	21.93	20.73	17.90
		3555.0	22.92	22.09	21.10	18.04
	1 RB low	3695.0	23.08	22.25	21.18	18.22
		3625.0	22.79	21.94	20.81	17.99
		3555.0	23.03	22.22	21.14	18.09
	50% RB mid	3695.0	22.17	21.22	20.17	17.95
		3625.0	21.78	20.91	19.72	17.93
		3555.0	22.11	21.21	20.20	18.15
	100% RB	3695.0	22.12	21.08	20.11	18.14
		3625.0	21.74	20.83	19.75	17.80
		3555.0	21.97	20.98	19.99	18.03
15MHz	1 RB high	3692.5	22.78	21.84	20.82	18.21
		3625.0	22.64	21.89	20.91	17.98
		3557.5	22.75	21.93	20.96	18.40
	1 RB low	3692.5	22.91	22.02	20.95	17.97
		3625.0	22.48	21.76	20.83	17.74
		3557.5	22.78	22.02	21.02	17.99
	50% RB mid	3692.5	21.90	20.99	20.04	18.04
		3625.0	21.67	20.73	19.65	17.72
		3557.5	21.87	20.89	19.91	17.91
	100% RB	3692.5	21.92	20.95	19.93	17.88
		3625.0	21.63	20.62	19.67	17.64
		3557.5	21.94	20.98	19.88	17.90
20MHz	1 RB high	3690.0	22.67	21.80	20.88	18.07
		3625.0	22.69	22.01	20.97	18.16

	1 RB low	3560.0	22.68	21.80	20.76	18.11
		3690.0	22.82	21.89	20.81	18.09
		3625.0	22.57	21.89	20.92	18.10
		3560.0	22.68	21.83	20.85	18.33
	50% RB mid	3690.0	21.92	20.93	19.94	17.98
		3625.0	21.67	20.70	19.72	17.67
		3560.0	21.83	20.94	19.90	17.88
	100% RB	3690.0	21.87	20.91	19.91	18.25
		3625.0	21.60	20.68	19.70	17.67
		3560.0	21.98	20.88	19.82	18.18

LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	22.85	22.19	21.19	18.22
		1745.0	22.79	22.25	21.00	17.96
		1710.7	22.75	22.15	20.96	18.02
	1 RB low	1779.3	22.82	22.32	21.10	18.17
		1745.0	22.86	22.16	21.14	18.14
		1710.7	22.77	22.21	21.07	18.05
	50% RB mid	1779.3	23.00	22.02	21.01	18.35
		1745.0	22.95	21.98	21.08	18.21
		1710.7	22.89	21.97	21.00	18.29
	100% RB	1779.3	21.98	21.04	19.92	17.86
		1745.0	21.95	20.97	19.91	17.90
		1710.7	21.58	20.89	19.80	17.85
3MHz	1 RB high	1778.5	22.96	22.23	21.17	18.17
		1745.0	22.93	22.38	21.08	18.03
		1711.5	22.90	22.36	20.95	17.90
	1 RB low	1778.5	22.99	22.32	21.11	18.08
		1745.0	22.92	22.29	20.92	17.96
		1711.5	22.91	22.19	21.00	17.94
	50% RB mid	1778.5	22.12	21.16	19.99	17.97
		1745.0	22.04	21.13	19.98	17.98
		1711.5	21.98	21.09	20.02	17.95
	100% RB	1778.5	22.05	21.07	19.98	17.98
		1745.0	22.03	21.05	19.92	17.93
		1711.5	22.00	21.06	19.93	17.88
5MHz	1 RB high	1777.5	22.99	22.35	21.13	18.10
		1745.0	22.95	22.30	21.11	18.05
		1712.5	22.92	22.31	20.94	17.97
	1 RB low	1777.5	23.04	22.34	20.98	17.99
		1745.0	22.92	22.44	20.94	17.97
		1712.5	22.93	22.40	20.95	17.99
	50% RB mid	1777.5	22.10	21.14	19.95	17.98
		1745.0	22.02	21.01	19.87	17.83
		1712.5	22.01	21.05	19.98	18.00
	100% RB	1777.5	22.13	21.09	19.92	17.89
		1745.0	22.07	21.10	19.91	17.96
		1712.5	22.01	21.02	19.90	17.84
10MHz	1 RB high	1775.0	22.91	22.33	21.08	18.10
		1745.0	22.90	22.14	20.97	18.00
		1715.0	22.83	22.19	20.94	17.93
	1 RB low	1775.0	22.98	22.37	21.10	18.08

		1745.0	22.93	22.45	20.77	17.80
		1715.0	22.88	22.33	20.99	18.00
	50% RB mid	1775.0	22.05	21.06	19.94	17.88
		1745.0	21.98	21.03	19.89	17.96
		1715.0	22.04	21.06	19.97	17.99
	100% RB	1775.0	22.04	21.10	19.91	17.95
		1745.0	22.02	21.03	19.87	17.81
		1715.0	21.99	20.99	19.93	17.90
15MHz	1 RB high	1772.5	22.85	22.15	20.95	17.92
		1745.0	22.76	22.01	20.89	17.93
		1717.5	22.71	22.11	20.70	17.73
	1 RB low	1772.5	22.90	22.26	21.01	17.98
		1745.0	22.81	22.14	20.91	17.98
		1717.5	22.73	22.12	20.66	17.67
	50% RB mid	1772.5	21.91	20.90	19.82	17.76
		1745.0	21.85	20.83	19.79	17.80
		1717.5	21.84	20.83	19.79	17.75
	100% RB	1772.5	21.90	20.93	19.82	17.86
		1745.0	21.86	20.84	19.74	17.78
		1717.5	21.86	20.87	19.77	17.73
20MHz	1 RB high	1770.0	22.80	22.32	20.87	18.10
		1745.0	22.75	22.13	20.84	18.08
		1720.0	22.71	22.09	20.88	18.13
	1 RB low	1770.0	22.95	22.34	20.93	18.17
		1745.0	22.78	22.10	20.77	17.99
		1720.0	22.69	22.05	20.87	18.00
	50% RB mid	1770.0	21.96	21.03	19.90	18.04
		1745.0	21.93	20.89	19.75	18.00
		1720.0	21.88	20.87	19.74	18.00
	100% RB	1770.0	21.90	20.99	19.75	17.93
		1745.0	21.81	20.81	19.71	17.90
		1720.0	21.86	20.89	19.77	17.90

LTE band 71

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	22.83	22.11	21.15	17.94
		680.5	22.87	22.25	21.19	18.07
		665.5	22.87	22.19	21.25	18.07
	1 RB low	695.5	22.82	22.21	21.11	17.97
		680.5	22.83	22.25	21.05	17.96
		665.5	22.94	22.29	21.18	17.97
	50% RB mid	695.5	22.00	21.01	20.09	18.07
		680.5	21.94	20.94	19.99	17.95
		665.5	22.04	20.96	20.10	18.03
	100% RB	695.5	21.85	20.83	19.95	18.06
		680.5	21.88	20.86	19.99	18.05
		665.5	22.01	21.02	20.12	17.95
10MHz	1 RB high	693.0	22.84	22.19	21.17	18.02
		680.5	22.87	22.09	21.33	18.05
		668.0	22.94	22.24	21.32	18.01
	1 RB low	693.0	22.89	22.26	21.44	17.97
		680.5	22.91	22.26	21.15	18.06
		668.0	23.00	22.38	21.20	18.04
	50% RB mid	693.0	21.92	20.90	20.02	17.97
		680.5	21.93	20.92	20.05	18.05
		668.0	22.00	20.94	20.08	18.02
	100% RB	693.0	21.91	20.90	19.98	18.07
		680.5	21.88	20.89	20.03	18.00
		668.0	21.97	20.95	20.09	17.95
15MHz	1 RB high	690.5	22.75	22.12	21.09	17.95
		680.5	22.83	22.13	21.04	17.95
		670.5	22.71	22.19	20.98	18.03
	1 RB low	690.5	22.71	22.10	20.97	18.05
		680.5	22.49	22.24	21.03	17.97
		670.5	22.73	22.22	21.11	18.00
	50% RB mid	690.5	21.78	20.75	19.90	18.00
		680.5	21.75	20.82	19.91	17.93
		670.5	21.79	20.86	19.90	17.96
	100% RB	690.5	21.71	20.75	19.87	18.02
		680.5	21.79	20.78	19.88	18.07
		670.5	21.83	20.85	19.98	17.98
20MHz	1 RB high	688.0	22.71	22.00	21.09	17.94
		680.5	22.76	22.03	21.00	18.07
		673.0	22.81	21.99	21.10	17.95
	1 RB low	688.0	22.69	22.14	21.02	17.99

		680.5	22.66	22.03	20.94	18.02
		673.0	22.75	22.12	20.99	18.02
	50% RB mid	688.0	21.86	20.87	19.96	17.96
		680.5	21.80	20.79	19.86	18.00
		673.0	21.87	20.85	19.98	17.98
	100% RB	688.0	21.83	20.85	19.95	18.03
		680.5	21.78	20.75	19.92	17.99
		673.0	21.96	20.85	20.00	18.06

LTE CA Band 5B

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
3MHz/ 5MHz	834.1	838	QPSK	1	14	1	0	23.37
				15	0	25	0	23.63
			16QAM	1	14	1	0	23.64
				15	0	25	0	23.80
			64QAM	1	14	1	0	23.88
				15	0	25	0	23.72
			256QAM	1	14	1	0	23.37
				15	0	25	0	23.76
5MHz/ 3MHz	835	838.9	QPSK	1	24	1	0	23.38
				25	0	15	0	23.60
			16QAM	1	24	1	0	23.44
				25	0	15	0	23.63
			64QAM	1	24	1	0	23.83
				25	0	15	0	23.69
			256QAM	1	24	1	0	23.56
				25	0	15	0	23.57
5MHz/ 10MHz	831.8	839	QPSK	1	24	1	0	23.25
				25	0	50	0	21.44
			16QAM	1	24	1	0	22.33
				25	0	50	0	20.45
			64QAM	1	24	1	0	21.26
				25	0	50	0	20.47
			256QAM	1	24	1	0	18.45
				25	0	50	0	18.47
10MHz/ 5MHz	834	841.2	QPSK	1	49	1	0	23.33
				50	0	25	0	21.51
			16QAM	1	49	1	0	22.55
				50	0	25	0	20.50
			64QAM	1	49	1	0	21.18
				50	0	25	0	20.54
			256QAM	1	49	1	0	18.45
				50	0	25	0	18.60
10MHz/ 10MHz	831.6	841.5	QPSK	1	49	1	0	23.41
				50	0	50	0	21.50
			16QAM	1	49	1	0	22.49
				50	0	50	0	20.53
			64QAM	1	49	1	0	21.44
				50	0	50	0	20.51
			256QAM	1	49	1	0	18.39
				50	0	50	0	18.53

LTE CA Band 41C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/ 20MHz	2583.8	2595.5	QPSK	1	24	1	0	23.25
				25	0	100	0	21.42
			16QAM	1	24	1	0	22.46
				25	0	100	0	20.43
			64QAM	1	24	1	0	21.42
				25	0	100	0	20.50
			256QAM	1	24	1	0	18.44
				25	0	100	0	18.45
10MHz/ 15MHz	2585.9	2597.9	QPSK	1	49	1	0	23.36
				50	0	75	0	21.43
			16QAM	1	49	1	0	22.11
				50	0	75	0	20.46
			64QAM	1	49	1	0	21.57
				50	0	75	0	20.50
			256QAM	1	49	1	0	18.33
				50	0	75	0	18.47
10MHz/ 20MHz	2583.6	2598.0	QPSK	1	49	1	0	23.34
				50	0	100	0	21.41
			16QAM	1	49	1	0	22.68
				50	0	100	0	20.43
			64QAM	1	49	1	0	21.21
				50	0	100	0	20.47
			256QAM	1	49	1	0	18.51
				50	0	100	0	18.47
15MHz/ 10MHz	2588.1	2600.1	QPSK	1	74	1	0	23.35
				75	0	50	0	21.42
			16QAM	1	74	1	0	22.50
				75	0	50	0	20.49
			64QAM	1	74	1	0	21.66
				75	0	50	0	20.53
			256QAM	1	74	1	0	18.87
				75	0	50	0	18.47
15MHz/ 15MHz	2585.5	2600.5	QPSK	1	74	1	0	23.20
				75	0	75	0	21.45
			16QAM	1	74	1	0	22.46
				75	0	75	0	20.43
			64QAM	1	74	1	0	21.27
				75	0	75	0	20.45
			256QAM	1	74	1	0	18.34
				75	0	75	0	18.51

15MHz/ 20MHz	2583.3	2600.4	QPSK	1	74	1	0	23.23
				75	0	100	0	21.44
			16QAM	1	74	1	0	22.39
				75	0	100	0	20.46
			64QAM	1	74	1	0	21.48
				75	0	100	0	20.47
20MHz/ 5MHz	2590.5	2602.2	QPSK	1	74	1	0	18.33
				75	0	100	0	18.48
			16QAM	1	99	1	0	23.50
				100	0	25	0	21.45
			64QAM	1	99	1	0	22.43
				100	0	25	0	20.51
20MHz/ 10MHz	2588.1	2602.5	QPSK	1	99	1	0	21.50
				100	0	25	0	20.51
			16QAM	1	99	1	0	18.50
				100	0	25	0	18.47
			64QAM	1	99	1	0	23.46
				100	0	50	0	21.48
20MHz/ 15MHz	2585.6	2602.7	QPSK	1	99	1	0	22.41
				100	0	50	0	20.55
			16QAM	1	99	1	0	21.69
				100	0	50	0	20.58
			64QAM	1	99	1	0	18.49
				100	0	50	0	18.53
20MHz/ 20MHz	2583.1	2602.9	QPSK	1	99	1	0	23.39
				100	0	75	0	21.51
			16QAM	1	99	1	0	22.45
				100	0	75	0	20.55
			64QAM	1	99	1	0	21.63
				100	0	75	0	20.50
20MHz/ 20MHz	2583.1	2602.9	QPSK	1	99	1	0	18.16
				100	0	75	0	18.46
			16QAM	1	99	1	0	23.34
				100	0	100	0	21.51
			64QAM	1	99	1	0	22.35
				100	0	100	0	20.55
20MHz/ 20MHz	2583.1	2602.9	QPSK	1	99	1	0	21.55
				100	0	100	0	20.54
			16QAM	1	99	1	0	18.37
				100	0	100	0	18.53
			64QAM	1	99	1	0	23.34
				100	0	100	0	21.51

LTE CA Band 66B

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/ 5MHz	1752.6	1757.4	QPSK	1	24	1	0	23.67
				25	0	25	0	21.79
			16QAM	1	24	1	0	22.84
				25	0	25	0	20.78
			64QAM	1	24	1	0	21.74
				25	0	25	0	20.85
			256QAM	1	24	1	0	18.83
				25	0	25	0	18.82
5MHz/ 10MHz	1750.3	1757.5	QPSK	1	24	1	0	23.49
				25	0	50	0	21.62
			16QAM	1	24	1	0	22.67
				25	0	50	0	20.60
			64QAM	1	24	1	0	21.58
				25	0	50	0	20.72
			256QAM	1	24	1	0	18.66
				25	0	50	0	18.70
5MHz/ 15MHz	1748.1	1757.4	QPSK	1	24	1	0	23.57
				25	0	75	0	21.69
			16QAM	1	24	1	0	22.77
				25	0	75	0	20.68
			64QAM	1	24	1	0	21.61
				25	0	75	0	20.72
			256QAM	1	24	1	0	18.71
				25	0	75	0	18.72
10MHz/ 5MHz	1752.5	1759.7	QPSK	1	49	1	0	23.55
				50	0	25	0	21.70
			16QAM	1	49	1	0	22.68
				50	0	25	0	20.69
			64QAM	1	49	1	0	21.43
				50	0	25	0	20.74
			256QAM	1	49	1	0	18.66
				50	0	25	0	18.76
10MHz/ 10MHz	1750.1	1760	QPSK	1	49	1	0	23.60
				50	0	50	0	21.66
			16QAM	1	49	1	0	22.70
				50	0	50	0	20.69
			64QAM	1	49	1	0	21.48
				50	0	50	0	20.72
			256QAM	1	49	1	0	18.69
				50	0	50	0	18.72

15MHz/ 5MHz	1752.6	1761.9	QPSK	1	74	1	0	23.50
				75	0	25	0	21.67
			16QAM	1	74	1	0	22.74
				75	0	25	0	20.63
			64QAM	1	74	1	0	21.48
				75	0	25	0	20.72
			256QAM	1	74	1	0	18.65
				75	0	25	0	18.74

LTE CA Band 66C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/ 20MHz	1745.8	1757.5	QPSK	1	24	1	0	23.58
				25	0	100	0	21.68
			16QAM	1	24	1	0	22.75
				25	0	100	0	20.73
			64QAM	1	24	1	0	21.57
				25	0	100	0	20.68
			256QAM	1	24	1	0	18.65
				25	0	100	0	18.60
10MHz/ 15MHz	1747.9	1757.9	QPSK	1	49	1	0	23.57
				50	0	75	0	21.67
			16QAM	1	49	1	0	22.64
				50	0	75	0	20.62
			64QAM	1	49	1	0	21.44
				50	0	75	0	20.68
			256QAM	1	49	1	0	18.62
				50	0	75	0	18.66
10MHz/ 20MHz	1745.6	1760.0	QPSK	1	49	1	0	23.56
				50	0	100	0	21.68
			16QAM	1	49	1	0	22.45
				50	0	100	0	20.67
			64QAM	1	49	1	0	21.55
				50	0	100	0	20.69
			256QAM	1	49	1	0	18.66
				50	0	100	0	18.68
15MHz/ 10MHz	1750.1	1762.1	QPSK	1	74	1	0	23.38
				75	0	50	0	21.63
			16QAM	1	74	1	0	22.52
				75	0	50	0	20.61
			64QAM	1	74	1	0	21.27
				75	0	50	0	20.68
			256QAM	1	74	1	0	18.46
				75	0	50	0	18.61
15MHz/ 15MHz	1747.5	1762.5	QPSK	1	74	1	0	23.37
				75	0	75	0	21.61
			16QAM	1	74	1	0	22.54
				75	0	75	0	20.60
			64QAM	1	74	1	0	21.33
				75	0	75	0	20.69
			256QAM	1	74	1	0	18.50
				75	0	75	0	18.67

15MHz/ 20MHz	1745.3	1762.4	QPSK	1	74	1	0	23.44
				75	0	100	0	21.64
			16QAM	1	74	1	0	22.63
				75	0	100	0	20.67
			64QAM	1	74	1	0	21.41
				75	0	100	0	20.70
20MHz/ 5MHz	1752.5	1764.2	QPSK	1	99	1	0	23.48
				100	0	25	0	21.67
			16QAM	1	99	1	0	22.36
				100	0	25	0	20.67
			64QAM	1	99	1	0	21.55
				100	0	25	0	20.63
20MHz/ 10MHz	1750.1	1764.5	QPSK	1	99	1	0	23.49
				100	0	50	0	21.68
			16QAM	1	99	1	0	22.36
				100	0	50	0	20.70
			64QAM	1	99	1	0	21.58
				100	0	50	0	20.69
20MHz/ 15MHz	1747.6	1764.7	QPSK	1	99	1	0	23.45
				100	0	75	0	21.65
			16QAM	1	99	1	0	22.37
				100	0	75	0	20.70
			64QAM	1	99	1	0	21.58
				100	0	75	0	20.68
20MHz/ 20MHz	1745.1	1764.9	QPSK	1	99	1	0	23.55
				100	0	100	0	21.70
			16QAM	1	99	1	0	22.37
				100	0	100	0	20.72
			64QAM	1	99	1	0	21.64
				100	0	100	0	20.75
			256QAM	1	99	1	0	18.48
				100	0	100	0	18.67

A.1.3 Radiated

A.1.3.1 Description

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

LTE Band 7: Rule Part 27.50(h)(2) specifies, " Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power."

LTE Band 12/71: 27.50(c)(10) specifies " 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 ".

LTE Band 13: 27.50(b)(10) specifies " Portable stations (hand-held devices) transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands are limited to 3 watts ERP."

LTE Band 14: 90.542(a) (7) specifies " Portable stations (hand-held de-vices) transmitting in the 758–768 MHz band and the 788–798 MHz band are limited to 3 watts ERP."

LTE Band 25/2: 24.232(c) specifies "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."

LTE Band 26(814MHz~824MHz): 90.635(b) specifies "The maximum output power of the transmitter for mobile stations is 100 watts"

LTE Band 26(824MHz~849MHz)/5: 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts"

LTE Band 30: Rule Part 27.50(a)(3) specifies, " For mobile and portable stations transmitting in the 2305–2315 MHz band or the 2350–2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth ."

FDD Band 41/38: 27.50(h)(2) specifies " *Mobile and other user stations.* Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power".

LTE Band 66/4: Rule Part 27.50(d) specifies "Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP."

LTE band 2-EIRP
Limits: ≤33dBm (2W)

Max EIRP: 23.23dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.06dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1909.3	22.66	22.1	21.01	18.03	22.72	22.16	21.07	18.09
		1880	22.89	22.35	21.2	18.13	22.95	22.41	21.26	18.19
		1850.7	22.88	22.41	21.21	18.21	22.94	22.47	21.27	18.27
	1 RB low	1909.3	22.79	22.11	21.04	18.03	22.85	22.17	21.10	18.09
		1880	22.94	22.37	21.33	18.33	23.00	22.43	21.39	18.39
		1850.7	22.96	22.43	21.33	18.37	23.02	22.49	21.39	18.43
	50% RB mid	1909.3	22.81	21.99	20.87	17.88	22.87	22.05	20.93	17.94
		1880	23.12	22.2	21.03	18.03	23.18	22.26	21.09	18.09
		1850.7	23.14	22.15	21.09	18.16	23.20	22.21	21.15	18.22
	100% RB	1909.3	21.84	20.89	19.84	17.87	21.90	20.95	19.90	17.93
		1880	22.02	21.04	19.96	17.89	22.08	21.10	20.02	17.95
		1850.7	22.07	21.17	19.97	17.91	22.13	21.23	20.03	17.97
3MHz	1 RB high	1908.5	22.76	22.22	21.05	17.99	22.82	22.28	21.11	18.05
		1880	22.95	22.3	21.13	18.09	23.01	22.36	21.19	18.15
		1851.5	22.99	22.39	21.17	18.21	23.05	22.45	21.23	18.27
	1 RB low	1908.5	22.93	22.28	21.06	18.05	22.99	22.34	21.12	18.11
		1880	23.06	22.45	21.4	18.45	23.12	22.51	21.46	18.51
		1851.5	23.17	22.61	21.27	18.27	23.23	22.67	21.33	18.33
	50% RB mid	1908.5	21.92	21.02	19.96	18.01	21.98	21.08	20.02	18.07
		1880	22.08	21.14	20.12	18.09	22.14	21.20	20.18	18.15
		1851.5	22.13	21.22	20.1	18.13	22.19	21.28	20.16	18.19
	100% RB	1908.5	21.93	20.94	19.93	17.87	21.99	21.00	19.99	17.93
		1880	22.12	21.05	20.12	18.08	22.18	21.11	20.18	18.14
		1851.5	22.11	21.17	20.13	18.12	22.17	21.23	20.19	18.18
5MHz	1 RB high	1907.5	22.83	22.06	21.1	18.14	22.89	22.12	21.16	18.20
		1880	22.93	22.28	20.92	17.96	22.99	22.34	20.98	18.02
		1852.5	23.04	22.42	21.25	18.19	23.10	22.48	21.31	18.25
	1 RB low	1907.5	22.92	22.24	21.07	18.12	22.98	22.30	21.13	18.18
		1880	23.04	22.37	21.27	18.22	23.10	22.43	21.33	18.28
		1852.5	23.1	22.49	21.33	18.4	23.16	22.55	21.39	18.46
	50% RB mid	1907.5	21.92	20.98	20	18.05	21.98	21.04	20.06	18.11
		1880	22.14	21.17	20.13	18.2	22.20	21.23	20.19	18.26
		1852.5	22.17	21.23	20.11	18.07	22.23	21.29	20.17	18.13
	100% RB	1907.5	21.87	20.93	19.87	17.89	21.93	20.99	19.93	17.95
		1880	21.97	21.04	19.92	17.89	22.03	21.10	19.98	17.95
		1852.5	22.15	21.13	20.08	18.04	22.21	21.19	20.14	18.10

10MH z	1 RB high	1905	22.78	22.3	21.01	17.95	22.84	22.36	21.07	18.01
		1880	22.94	22.25	21.21	18.21	23.00	22.31	21.27	18.27
		1855	22.95	22.31	21.24	18.25	23.01	22.37	21.30	18.31
	1 RB low	1905	22.92	22.28	21.15	18.15	22.98	22.34	21.21	18.21
		1880	23.04	22.38	21.29	18.29	23.10	22.44	21.35	18.35
		1855	23.01	22.43	21.36	18.36	23.07	22.49	21.42	18.42
	50% RB mid	1905	22	21.03	20	17.95	22.06	21.09	20.06	18.01
		1880	22.05	21.09	20.05	18.04	22.11	21.15	20.11	18.10
		1855	22.17	21.23	20.15	18.2	22.23	21.29	20.21	18.26
	100% RB	1905	21.98	21.01	19.95	17.9	22.04	21.07	20.01	17.96
		1880	22.05	21.03	20.08	18.05	22.11	21.09	20.14	18.11
		1855	22.15	21.17	20.13	18.07	22.21	21.23	20.19	18.13
15MH z	1 RB high	1902.5	22.64	22.06	20.8	17.83	22.70	22.12	20.86	17.89
		1880	22.85	22.17	21.04	18.07	22.91	22.23	21.10	18.13
		1857.5	22.88	22.28	21.14	18.08	22.94	22.34	21.20	18.14
	1 RB low	1902.5	22.75	22.07	20.89	17.96	22.81	22.13	20.95	18.02
		1880	22.86	22.25	20.93	18	22.92	22.31	20.99	18.06
		1857.5	22.96	22.33	21.12	18.09	23.02	22.39	21.18	18.15
	50% RB mid	1902.5	21.83	20.86	19.83	17.79	21.89	20.92	19.89	17.85
		1880	21.93	20.95	19.89	17.87	21.99	21.01	19.95	17.93
		1857.5	21.99	21.05	20.04	18	22.05	21.11	20.10	18.06
	100% RB	1902.5	21.83	20.89	19.86	17.87	21.89	20.95	19.92	17.93
		1880	21.88	20.93	19.9	17.92	21.94	20.99	19.96	17.98
		1857.5	22.04	21.07	20	18	22.10	21.13	20.06	18.06
20MH z	1 RB high	1900	22.72	22.08	20.85	17.91	22.78	22.14	20.91	17.97
		1880	22.79	22.25	21.03	18.06	22.85	22.31	21.09	18.12
		1860	22.85	22.24	21.11	18.1	22.91	22.30	21.17	18.16
	1 RB low	1900	22.85	22.06	21.01	18.02	22.91	22.12	21.07	18.08
		1880	22.89	22.19	21.12	18.09	22.95	22.25	21.18	18.15
		1860	22.99	22.31	21.03	18.09	23.05	22.37	21.09	18.15
	50% RB mid	1900	21.88	20.9	19.86	17.87	21.94	20.96	19.92	17.93
		1880	21.94	20.9	19.94	17.89	22.00	20.96	20.00	17.95
		1860	22.06	21.06	19.97	18.01	22.12	21.12	20.03	18.07
	100% RB	1900	21.91	20.9	19.87	17.92	21.97	20.96	19.93	17.98
		1880	21.89	20.93	19.92	17.89	21.95	20.99	19.98	17.95
		1860	22.02	21.06	20.01	18.04	22.08	21.12	20.07	18.10

LTE band 4-EIRP
Limits: ≤30dBm (1W)

Max EIRP: 23.14dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.15dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1754.3	22.77	22.21	21.14	18.1	22.92	22.36	21.29	18.25
		1732.5	22.81	22.09	21.12	18.13	22.96	22.24	21.27	18.28
		1710.7	22.78	22.16	20.48	17.51	22.93	22.31	20.63	17.66
	1 RB low	1754.3	22.8	22.23	21.02	17.98	22.95	22.38	21.17	18.13
		1732.5	22.82	22.26	20.9	17.96	22.97	22.41	21.05	18.11
		1710.7	22.77	22.24	21.09	18.06	22.92	22.39	21.24	18.21
	50% RB mid	1754.3	22.87	21.98	20.85	17.88	23.02	22.13	21.00	18.03
		1732.5	22.95	22.06	20.88	17.85	23.10	22.21	21.03	18.00
		1710.7	22.88	21.98	20.97	17.97	23.03	22.13	21.12	18.12
	100% RB	1754.3	21.87	20.92	19.72	17.73	22.02	21.07	19.87	17.88
		1732.5	21.92	20.94	19.81	17.8	22.07	21.09	19.96	17.95
		1710.7	21.86	20.93	19.76	17.72	22.01	21.08	19.91	17.87
3MHz	1 RB high	1753.5	22.87	22.25	20.9	17.94	23.02	22.40	21.05	18.09
		1732.5	22.93	22.31	21.02	17.99	23.08	22.46	21.17	18.14
		1711.5	22.9	22.2	21.04	18.04	23.05	22.35	21.19	18.19
	1 RB low	1753.5	22.94	22.33	20.88	17.91	23.09	22.48	21.03	18.06
		1732.5	22.88	22.29	20.94	17.97	23.03	22.44	21.09	18.12
		1711.5	22.85	22.24	21.02	18.07	23.00	22.39	21.17	18.22
	50% RB mid	1753.5	22.05	21.03	19.9	17.85	22.20	21.18	20.05	18.00
		1732.5	22	21.09	19.94	17.98	22.15	21.24	20.09	18.13
		1711.5	21.98	21.06	20.04	17.97	22.13	21.21	20.19	18.12
	100% RB	1753.5	21.97	21.02	19.91	17.95	22.12	21.17	20.06	18.10
		1732.5	21.93	20.95	19.87	17.88	22.08	21.10	20.02	18.03
		1711.5	21.97	20.99	19.94	17.91	22.12	21.14	20.09	18.06
5MHz	1 RB high	1752.5	22.93	22.33	20.96	17.89	23.08	22.48	21.11	18.04
		1732.5	22.98	22.41	20.99	17.93	23.13	22.56	21.14	18.08
		1712.5	22.78	22.35	20.84	17.88	22.93	22.50	20.99	18.03
	1 RB low	1752.5	22.99	22.35	21.06	18	23.14	22.50	21.21	18.15
		1732.5	22.97	22.31	20.96	18	23.12	22.46	21.11	18.15
		1712.5	22.92	22.39	21.03	18.03	23.07	22.54	21.18	18.18
	50% RB mid	1752.5	22.02	21.06	19.92	17.89	22.17	21.21	20.07	18.04
		1732.5	21.97	20.99	19.81	17.81	22.12	21.14	19.96	17.96
		1712.5	22	20.98	19.83	17.86	22.15	21.13	19.98	18.01
	100% RB	1752.5	22	21.03	19.85	17.86	22.15	21.18	20.00	18.01
		1732.5	21.94	20.97	19.81	17.75	22.09	21.12	19.96	17.90
		1712.5	21.99	21	19.85	17.82	22.14	21.15	20.00	17.97

10MH z	1 RB high	1750	22.83	22.25	20.94	17.93	22.98	22.40	21.09	18.08
		1732.5	22.82	22.2	21.08	18.06	22.97	22.35	21.23	18.21
		1715	22.77	22.24	20.93	17.93	22.92	22.39	21.08	18.08
	1 RB low	1750	22.92	22.28	20.97	17.94	23.07	22.43	21.12	18.09
		1732.5	22.93	22.36	20.92	17.9	23.08	22.51	21.07	18.05
		1715	22.87	22.31	21.12	18.11	23.02	22.46	21.27	18.26
	50% RB mid	1750	22	20.98	19.84	17.87	22.15	21.13	19.99	18.02
		1732.5	21.98	21.03	19.87	17.83	22.13	21.18	20.02	17.98
		1715	22.03	21.03	19.95	17.95	22.18	21.18	20.10	18.10
	100 % RB	1750	22.01	21.02	19.86	17.9	22.16	21.17	20.01	18.05
		1732.5	21.96	20.95	19.83	17.86	22.11	21.10	19.98	18.01
		1715	22	21.01	19.91	17.95	22.15	21.16	20.06	18.10
15MH z	1 RB high	1747.5	22.73	22.15	20.75	17.82	22.88	22.30	20.90	17.97
		1732.5	22.71	22.14	20.94	18.01	22.86	22.29	21.09	18.16
		1717.5	22.61	22.01	20.81	17.75	22.76	22.16	20.96	17.90
	1 RB low	1747.5	22.78	22.13	20.76	17.69	22.93	22.28	20.91	17.84
		1732.5	22.81	22.18	20.79	17.84	22.96	22.33	20.94	17.99
		1717.5	22.76	22.07	20.66	17.69	22.91	22.22	20.81	17.84
	50% RB mid	1747.5	21.84	20.83	19.7	17.68	21.99	20.98	19.85	17.83
		1732.5	21.83	20.85	19.74	17.76	21.98	21.00	19.89	17.91
		1717.5	21.86	20.91	19.75	17.73	22.01	21.06	19.90	17.88
	100 % RB	1747.5	21.8	20.78	19.63	17.69	21.95	20.93	19.78	17.84
		1732.5	21.84	20.79	19.68	17.63	21.99	20.94	19.83	17.78
		1717.5	21.81	20.84	19.73	17.8	21.96	20.99	19.88	17.95
20MH z	1 RB high	1745	22.73	22.13	20.81	17.8	22.88	22.28	20.96	17.95
		1732.5	22.7	22.03	20.78	17.81	22.85	22.18	20.93	17.96
		1720	22.68	22.04	20.62	17.66	22.83	22.19	20.77	17.81
	1 RB low	1745	22.88	22.27	20.76	17.72	23.03	22.42	20.91	17.87
		1732.5	22.8	22.13	20.82	17.87	22.95	22.28	20.97	18.02
		1720	22.75	22.18	20.85	17.88	22.90	22.33	21.00	18.03
	50% RB mid	1745	21.87	20.85	19.73	17.78	22.02	21.00	19.88	17.93
		1732.5	21.83	20.82	19.72	17.76	21.98	20.97	19.87	17.91
		1720	21.84	20.82	19.75	17.74	21.99	20.97	19.90	17.89
	100 % RB	1745	21.85	20.8	19.65	17.65	22.00	20.95	19.80	17.80
		1732.5	21.84	20.83	19.7	17.7	21.99	20.98	19.85	17.85
		1720	21.8	20.85	19.73	17.66	21.95	21.00	19.88	17.81

LTE band 5-ERP
Limits: ≤38.4dBm (7W)

Max ERP: 20.57dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -0.4dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4M Hz	1 RB high	848.3	22.76	22.11	21.05	18.1	20.21	19.56	18.50	15.58
		836.5	22.89	22.37	20.82	18.1	20.34	19.82	18.27	15.52
		824.7	22.87	22.18	21.24	17.5	20.32	19.63	18.69	14.93
	1 RB low	848.3	22.83	22.17	21.15	18.1	20.28	19.62	18.60	15.51
		836.5	22.89	22.28	21.15	17.8	20.34	19.73	18.60	15.28
		824.7	22.92	22.25	21.31	18.1	20.37	19.70	18.76	15.53
	50% RB mid	848.3	22.87	22.01	21.1	17.9	20.32	19.46	18.55	15.30
		836.5	22.96	21.95	21.11	17.9	20.41	19.40	18.56	15.39
		824.7	23.01	22.09	21.15	17.9	20.46	19.54	18.60	15.39
	100% RB	848.3	21.9	21	19.98	17.8	19.35	18.45	17.43	15.20
		836.5	21.91	20.49	19.98	17.8	19.36	17.94	17.43	15.24
		824.7	21.97	21.05	20.03	17.9	19.42	18.50	17.48	15.34
3MHz	1 RB high	847.5	22.99	22.27	21.33	17.9	20.44	19.72	18.78	15.36
		836.5	23.03	22.47	21.38	18.1	20.48	19.92	18.83	15.52
		825.5	23.01	22.33	21.45	18.1	20.46	19.78	18.90	15.55
	1 RB low	847.5	22.97	22.39	21.31	17.8	20.42	19.84	18.76	15.29
		836.5	23.06	22.33	21.32	18	20.51	19.78	18.77	15.43
		825.5	23.04	22.43	21.35	18	20.49	19.88	18.80	15.40
	50% RB mid	847.5	22.01	21.1	20.13	17.9	19.46	18.55	17.58	15.38
		836.5	22.09	21.19	20.26	18	19.54	18.64	17.71	15.45
		825.5	22.1	21.12	20.15	18.1	19.55	18.57	17.60	15.56
	100% RB	847.5	22.01	21.04	20.12	17.9	19.46	18.49	17.57	15.37
		836.5	21.96	21.05	20.07	17.8	19.41	18.50	17.52	15.25
		825.5	22.07	21.09	20.11	17.9	19.52	18.54	17.56	15.38
5MHz	1 RB high	846.5	22.98	22.51	21.3	18	20.43	19.96	18.75	15.40
		836.5	23.08	22.54	21.37	18.1	20.53	19.99	18.82	15.51
		826.5	23.09	22.35	21.29	17.8	20.54	19.80	18.74	15.25
	1 RB low	846.5	22.98	22.29	21.15	18.1	20.43	19.74	18.60	15.53
		836.5	23.12	22.42	21.3	18	20.57	19.87	18.75	15.46
		826.5	23.09	22.44	21.35	18	20.54	19.89	18.80	15.41
	50% RB mid	846.5	22.03	21.01	20.04	17.9	19.48	18.46	17.49	15.34
		836.5	22.07	21.1	20.17	17.8	19.52	18.55	17.62	15.28
		826.5	22.14	21.15	20.16	17.8	19.59	18.60	17.61	15.27
	100% RB	846.5	21.97	21.03	20.08	17.8	19.42	18.48	17.53	15.29
		836.5	22.06	21.11	20.12	17.8	19.51	18.56	17.57	15.23
		826.5	22.14	21.15	20.14	17.9	19.59	18.60	17.59	15.33

10MH z	1 RB high	844	23.05	22.42	21.24	17.9	20.50	19.87	18.69	15.34
		836.5	23.05	22.4	21.45	18.1	20.50	19.85	18.90	15.58
		829	23.08	22.44	21.33	17.9	20.53	19.89	18.78	15.35
	1 RB low	844	23	22.38	21.31	18	20.45	19.83	18.76	15.47
		836.5	23.01	22.29	21.28	17.9	20.46	19.74	18.73	15.38
		829	23.04	22.35	21.28	18.1	20.49	19.80	18.73	15.54
	50% RB mid	844	22.2	21.19	20.24	17.8	19.65	18.64	17.69	15.23
		836.5	22.08	21.17	20.23	17.9	19.53	18.62	17.68	15.36
		829	22.2	21.21	20.27	17.9	19.65	18.66	17.72	15.35
	100% RB	844	22.2	21.19	20.25	17.8	19.65	18.64	17.70	15.29
		836.5	22.11	21.16	20.19	17.9	19.56	18.61	17.64	15.33
		829	22.19	21.21	20.23	17.9	19.64	18.66	17.68	15.31

LTE band 7-EIRP
Limits: ≤33dBm (2W)

Max EIRP: 23.29dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.09dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	23.18	22.63	21.44	18.39	23.27	22.72	21.53	18.48
		2535	23.2	22.5	21.32	18.31	23.29	22.59	21.41	18.40
		2502.5	23.12	22.62	21.33	18.38	23.21	22.71	21.42	18.47
	1 RB low	2567.5	23.12	22.51	21.3	18.31	23.21	22.60	21.39	18.40
		2535	23.15	22.55	21.23	18.24	23.24	22.64	21.32	18.33
		2502.5	23.07	22.48	21.23	18.3	23.16	22.57	21.32	18.39
	50% RB mid	2567.5	22.34	21.29	20.23	18.23	22.43	21.38	20.32	18.32
		2535	22.23	21.25	20.18	18.17	22.32	21.34	20.27	18.26
		2502.5	22.22	21.26	20.21	18.28	22.31	21.35	20.30	18.37
	100% RB	2567.5	22.27	21.3	20.16	18.13	22.36	21.39	20.25	18.22
		2535	22.17	21.25	20.15	18.19	22.26	21.34	20.24	18.28
		2502.5	22.21	21.23	20.15	18.2	22.30	21.32	20.24	18.29
10MHz	1 RB high	2565	23.06	22.49	21.08	18.01	23.15	22.58	21.17	18.10
		2535	23.13	22.51	21.07	18.11	23.22	22.60	21.16	18.20
		2505	23.05	22.4	21.09	18.09	23.14	22.49	21.18	18.18
	1 RB low	2565	22.94	22.23	20.96	17.93	23.03	22.32	21.05	18.02
		2535	22.93	22.34	21.01	17.98	23.02	22.43	21.10	18.07
		2505	22.86	22.14	20.99	17.97	22.95	22.23	21.08	18.06
	50% RB mid	2565	22.24	21.24	20.04	18.11	22.33	21.33	20.13	18.20
		2535	22.15	21.13	19.98	18	22.24	21.22	20.07	18.09
		2505	22.1	21.12	20	18.03	22.19	21.21	20.09	18.12
	100% RB	2565	22.23	21.2	20.04	17.97	22.32	21.29	20.13	18.06
		2535	22.14	21.14	19.97	18	22.23	21.23	20.06	18.09
		2505	22.12	21.15	19.97	18.01	22.21	21.24	20.06	18.10
15MHz	1 RB high	2562.5	23.03	22.4	21.07	18.05	23.12	22.49	21.16	18.14
		2535	23.11	22.45	20.99	18.03	23.20	22.54	21.08	18.12
		2507.5	23.01	22.38	21.03	18.09	23.10	22.47	21.12	18.18
	1 RB low	2562.5	22.95	22.26	20.98	18.01	23.04	22.35	21.07	18.10
		2535	22.96	22.33	20.96	17.9	23.05	22.42	21.05	17.99
		2507.5	22.89	22.13	20.99	18.03	22.98	22.22	21.08	18.12
	50% RB mid	2562.5	22.2	21.2	20.03	18.02	22.29	21.29	20.12	18.11
		2535	22.12	21.12	19.96	18.01	22.21	21.21	20.05	18.10
		2507.5	22.04	21.04	19.98	18.01	22.13	21.13	20.07	18.10
	100% RB	2562.5	22.22	21.17	20.02	18.01	22.31	21.26	20.11	18.10
		2535	22.12	21.09	19.96	17.92	22.21	21.18	20.05	18.01
		2507.5	22.06	21.12	19.89	17.83	22.15	21.21	19.98	17.92

20MHz	1 RB high	2560	23.09	22.57	21.09	18.03	23.18	22.66	21.18	18.12
		2535	23.14	22.56	21.15	18.18	23.23	22.65	21.24	18.27
		2510	23.08	22.42	21.15	18.18	23.17	22.51	21.24	18.27
	1 RB low	2560	22.92	22.2	20.93	17.93	23.01	22.29	21.02	18.02
		2535	22.9	22.35	21.06	18.12	22.99	22.44	21.15	18.21
		2510	22.83	22.15	20.98	17.97	22.92	22.24	21.07	18.06
	50% RB mid	2560	22.28	21.27	20.05	18.06	22.37	21.36	20.14	18.15
		2535	22.17	21.14	20	17.97	22.26	21.23	20.09	18.06
		2510	22.16	21.19	20.01	17.96	22.25	21.28	20.10	18.05
	100% RB	2560	22.23	21.22	20.06	18.12	22.32	21.31	20.15	18.21
		2535	22.15	21.18	19.97	18.02	22.24	21.27	20.06	18.11
		2510	22.17	21.18	20.05	18.02	22.26	21.27	20.14	18.11

LTE band 12-ERP
Limits: ≤34.77dBm (3W)

Max ERP: 20.79dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -0.04dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	22.71	22.11	20.91	17.96	20.52	19.92	18.72	15.77
		707.5	22.75	22.11	21.19	18.12	20.56	19.92	19.00	15.93
		699.7	22.66	22.08	21.03	17.99	20.47	19.89	18.84	15.80
	1 RB low	715.3	22.78	22.12	21.26	18.33	20.59	19.93	19.07	16.14
		707.5	22.76	22.1	21.13	18.13	20.57	19.91	18.94	15.94
		699.7	22.78	22.09	21.32	18.27	20.59	19.90	19.13	16.08
	50% RB mid	715.3	22.84	21.91	21.01	17.95	20.65	19.72	18.82	15.76
		707.5	22.86	21.96	21.06	18.12	20.67	19.77	18.87	15.93
		699.7	22.83	21.93	21.06	18.06	20.64	19.74	18.87	15.87
	100% RB	715.3	21.89	20.86	19.95	17.99	19.70	18.67	17.76	15.80
		707.5	21.87	20.82	19.9	17.86	19.68	18.63	17.71	15.67
		699.7	21.87	20.86	20.1	18.03	19.68	18.67	17.91	15.84
3MHz	1 RB high	714.5	22.85	22.13	21.18	18.2	20.66	19.94	18.99	16.01
		707.5	22.89	22.26	21.17	18.1	20.70	20.07	18.98	15.91
		700.5	22.77	22.07	21.02	18.06	20.58	19.88	18.83	15.87
	1 RB low	714.5	22.82	22.13	21.16	18.16	20.63	19.94	18.97	15.97
		707.5	22.88	22.15	21.1	18.17	20.69	19.96	18.91	15.98
		700.5	22.91	22.04	21.19	18.19	20.72	19.85	19.00	16.00
	50% RB mid	714.5	21.96	21.04	20.18	18.19	19.77	18.85	17.99	16.00
		707.5	21.95	21.06	20.04	17.99	19.76	18.87	17.85	15.80
		700.5	21.93	20.97	20.18	18.2	19.74	18.78	17.99	16.01
	100% RB	714.5	21.87	20.9	19.93	17.89	19.68	18.71	17.74	15.70
		707.5	21.88	20.95	20.03	18.09	19.69	18.76	17.84	15.90
		700.5	21.95	20.9	20.06	18.03	19.76	18.71	17.87	15.84
5MHz	1 RB high	713.5	22.88	22.23	21.03	18.04	20.69	20.04	18.84	15.85
		707.5	22.89	22.28	21.27	18.2	20.70	20.09	19.08	16.01
		701.5	22.89	22.2	21.13	18.1	20.70	20.01	18.94	15.91
	1 RB low	713.5	22.88	22.21	21.07	18.04	20.69	20.02	18.88	15.85
		707.5	22.86	22.28	20.99	18.02	20.67	20.09	18.80	15.83
		701.5	22.85	22.08	20.93	17.95	20.66	19.89	18.74	15.76
	50% RB mid	713.5	22	21.09	20.13	18.09	19.81	18.90	17.94	15.90
		707.5	21.96	21	20.07	18.01	19.77	18.81	17.88	15.82
		701.5	22.04	20.94	20.03	17.99	19.85	18.75	17.84	15.80
	100% RB	713.5	21.91	20.89	19.98	17.98	19.72	18.70	17.79	15.79
		707.5	21.93	20.89	20.02	18.06	19.74	18.70	17.83	15.87
		701.5	22	21.02	19.96	17.99	19.81	18.83	17.77	15.80

10MHz	1 RB high	711	22.96	22.35	21.18	18.21	20.77	20.16	18.99	16.02
		707.5	22.92	22.25	21.28	18.29	20.73	20.06	19.09	16.10
		704	22.98	22.33	21.2	18.21	20.79	20.14	19.01	16.02
	1 RB low	711	22.95	22.19	21.19	18.16	20.76	20.00	19.00	15.97
		707.5	22.89	22.17	21.18	18.25	20.70	19.98	18.99	16.06
		704	22.88	22.15	21.09	18.06	20.69	19.96	18.90	15.87
	50% RB mid	711	22.09	21.06	20.13	18.11	19.90	18.87	17.94	15.92
		707.5	22	20.97	20.14	18.07	19.81	18.78	17.95	15.88
		704	21.98	20.93	20.14	18.2	19.79	18.74	17.95	16.01
	100% RB	711	22.06	21.03	20.15	18.2	19.87	18.84	17.96	16.01
		707.5	21.96	20.95	20.1	18.09	19.77	18.76	17.91	15.90
		704	22.02	20.98	20.12	18.13	19.83	18.79	17.93	15.94

LTE band 13- ERP
Limits: ≤34.77 dBm (3W)

Max ERP: 20.32dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -0.56dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	22.93	22.33	21.15	18.21	20.22	19.62	18.44	15.50
		782	22.94	22.35	21.12	18.14	20.23	19.64	18.41	15.43
		779.5	23	22.32	21.21	18.14	20.29	19.61	18.50	15.43
	1 RB low	784.5	22.91	22.26	21.22	18.19	20.20	19.55	18.51	15.48
		782	23	22.36	21.13	18.15	20.29	19.65	18.42	15.44
		779.5	23.03	22.19	21.14	18.12	20.32	19.48	18.43	15.41
	50% RB mid	784.5	22.14	21.07	20.1	18.08	19.43	18.36	17.39	15.37
		782	22	21.07	20.07	18.11	19.29	18.36	17.36	15.40
		779.5	22.02	21.08	20.15	18.15	19.31	18.37	17.44	15.44
	100% RB	784.5	22.07	21.06	20.09	18.06	19.36	18.35	17.38	15.35
		782	22.01	21.01	19.97	17.92	19.30	18.30	17.26	15.21
		779.5	22.01	21.02	20.07	18.01	19.30	18.31	17.36	15.30
10MHz	1 RB high	782	22.91	22.24	21.28	18.23	20.20	19.53	18.57	15.52
	1 RB low	782	22.84	22.34	21.27	18.22	20.13	19.63	18.56	15.51
	50% RB mid	782	22.04	20.96	20.07	18.14	19.33	18.25	17.36	15.43
	100% RB	782	22.05	20.99	20.08	18.06	19.34	18.28	17.37	15.35

LTE band 14- ERP
Limits: ≤34.77 dBm (3W)

Max ERP: 20.30dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -0.56dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	795.5	22.84	22.21	21.11	18.1	20.13	19.50	18.40	15.39
		793	22.87	22.35	21.13	18.14	20.16	19.64	18.42	15.43
		790.5	23	22.24	21.11	18.07	20.29	19.53	18.40	15.36
	1 RB low	795.5	22.94	22.31	21.24	18.2	20.23	19.60	18.53	15.49
		793	22.98	22.41	21.16	18.17	20.27	19.70	18.45	15.46
		790.5	23.01	22.39	21.31	18.27	20.30	19.68	18.60	15.56
	50% RB mid	795.5	22.03	21.03	20.08	18.06	19.32	18.32	17.37	15.35
		793	22.03	21	20.01	17.97	19.32	18.29	17.30	15.26
		790.5	22.11	21.08	20.19	18.26	19.40	18.37	17.48	15.55
	100% RB	795.5	21.99	20.97	20.04	17.97	19.28	18.26	17.33	15.26
		793	21.93	20.92	19.93	17.93	19.22	18.21	17.22	15.22
		790.5	22.12	21.08	20.01	17.96	19.41	18.37	17.30	15.25
10MHz	1 RB high	793	22.81	22.2	21.15	18.11	20.10	19.49	18.44	15.40
	1 RB low	793	22.95	22.47	21.15	18.17	20.24	19.76	18.44	15.46
	50% RB mid	793	21.99	20.98	20.01	18.01	19.28	18.27	17.30	15.30
	100% RB	793	21.98	20.99	20.04	18.06	19.27	18.28	17.33	15.35

LTE band 25- EIRP
Limits: ≤33dBm (2W)

Max ERP: 23.22dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.06dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	22.68	22.28	20.94	17.94	22.74	22.34	21.00	18.00
		1882.5	22.85	22.26	21.23	18.17	22.91	22.32	21.29	18.23
		1850.7	22.92	22.39	20.74	17.81	22.98	22.45	20.80	17.87
	1 RB low	1914.3	22.74	22.19	20.98	17.94	22.80	22.25	21.04	18.00
		1882.5	22.9	22.33	21.06	18.04	22.96	22.39	21.12	18.10
		1850.7	22.93	22.36	20.78	17.82	22.99	22.42	20.84	17.88
	50% RB mid	1914.3	22.84	21.91	20.94	18.01	22.90	21.97	21.00	18.07
		1882.5	22.96	22.06	21.08	18.1	23.02	22.12	21.14	18.16
		1850.7	23.17	22.17	20.77	17.81	23.23	22.23	20.83	17.87
	100% RB	1914.3	21.84	20.93	19.88	17.92	21.90	20.99	19.94	17.98
		1882.5	21.98	21.03	19.84	17.8	22.04	21.09	19.90	17.86
		1850.7	22.09	21.14	19.66	17.6	22.15	21.20	19.72	17.66
3MHz	1 RB high	1913.5	22.85	22.34	21.1	18.14	22.91	22.40	21.16	18.20
		1882.5	23.01	22.48	21.04	18	23.07	22.54	21.10	18.06
		1851.5	23.08	22.38	21.02	18.07	23.14	22.44	21.08	18.13
	1 RB low	1913.5	22.86	22.09	21.1	18.05	22.92	22.15	21.16	18.11
		1882.5	23.01	22.3	21.1	18.05	23.07	22.36	21.16	18.11
		1851.5	23.14	22.47	20.81	17.76	23.20	22.53	20.87	17.82
	50% RB mid	1913.5	21.94	21.05	19.96	17.94	22.00	21.11	20.02	18.00
		1882.5	22.1	21.11	20.04	18.06	22.16	21.17	20.10	18.12
		1851.5	22.16	21.26	19.85	17.86	22.22	21.32	19.91	17.92
	100% RB	1913.5	21.93	20.93	19.89	17.9	21.99	20.99	19.95	17.96
		1882.5	22.07	21.05	20.01	17.97	22.13	21.11	20.07	18.03
		1851.5	22.18	21.16	19.78	17.85	22.24	21.22	19.84	17.91
5MHz	1 RB high	1912.5	22.85	22.14	20.88	17.85	22.91	22.20	20.94	17.91
		1882.5	23.02	22.46	21.13	18.17	23.08	22.52	21.19	18.23
		1852.5	23.13	22.59	21.25	18.24	23.19	22.65	21.31	18.30
	1 RB low	1912.5	22.87	22.25	20.94	17.99	22.93	22.31	21.00	18.05
		1882.5	23.09	22.39	21.05	18.02	23.15	22.45	21.11	18.08
		1852.5	23.16	22.53	20.77	17.7	23.22	22.59	20.83	17.76
	50% RB mid	1912.5	21.97	20.97	19.9	17.94	22.03	21.03	19.96	18.00
		1882.5	22.1	21.1	20.01	17.95	22.16	21.16	20.07	18.01
		1852.5	22.17	21.23	19.87	17.94	22.23	21.29	19.93	18.00
	100% RB	1912.5	21.94	20.98	19.8	17.75	22.00	21.04	19.86	17.81
		1882.5	22.08	21.09	19.95	17.89	22.14	21.15	20.01	17.95
		1852.5	22.19	21.17	19.87	17.94	22.25	21.23	19.93	18.00

10MH z	1 RB high	1910	22.78	22.22	21.03	18.01	22.84	22.28	21.09	18.07
		1882.5	22.95	22.32	21.06	18.06	23.01	22.38	21.12	18.12
		1855	23.03	22.42	21.07	18.01	23.09	22.48	21.13	18.07
	1 RB low	1910	22.84	22.3	21.03	18.03	22.90	22.36	21.09	18.09
		1882.5	22.95	22.38	20.96	18.02	23.01	22.44	21.02	18.08
		1855	23.04	22.42	20.88	17.9	23.10	22.48	20.94	17.96
	50% RB mid	1910	22	21.07	19.95	17.99	22.06	21.13	20.01	18.05
		1882.5	22.09	21.13	20.04	17.98	22.15	21.19	20.10	18.04
		1855	22.21	21.25	20.14	18.08	22.27	21.31	20.20	18.14
	100 % RB	1910	21.97	21.07	19.93	17.92	22.03	21.13	19.99	17.98
		1882.5	21.99	21.04	19.94	18.01	22.05	21.10	20.00	18.07
		1855	22.2	21.22	20.11	18.11	22.26	21.28	20.17	18.17
15MH z	1 RB high	1907.5	22.58	22.04	20.81	17.82	22.64	22.10	20.87	17.88
		1882.5	22.73	22.02	20.77	17.82	22.79	22.08	20.83	17.88
		1857.5	22.87	22.17	20.86	17.89	22.93	22.23	20.92	17.95
	1 RB low	1907.5	22.68	22.07	20.82	17.89	22.74	22.13	20.88	17.95
		1882.5	22.86	22.21	20.93	18	22.92	22.27	20.99	18.06
		1857.5	22.93	22.37	20.83	17.87	22.99	22.43	20.89	17.93
	50% RB mid	1907.5	21.89	20.88	19.8	17.87	21.95	20.94	19.86	17.93
		1882.5	21.96	21	19.88	17.86	22.02	21.06	19.94	17.92
		1857.5	22.03	21.08	19.94	17.95	22.09	21.14	20.00	18.01
	100 % RB	1907.5	21.87	20.9	19.77	17.77	21.93	20.96	19.83	17.83
		1882.5	21.91	20.86	19.77	17.78	21.97	20.92	19.83	17.84
		1857.5	21.97	21	19.88	17.85	22.03	21.06	19.94	17.91
20MH z	1 RB high	1905	22.6	22.12	20.7	17.69	22.66	22.18	20.76	17.75
		1882.5	22.7	22.06	20.76	17.72	22.76	22.12	20.82	17.78
		1860	22.74	22.09	20.86	17.93	22.80	22.15	20.92	17.99
	1 RB low	1905	22.73	22.05	20.84	17.89	22.79	22.11	20.90	17.95
		1882.5	22.87	22.23	20.86	17.92	22.93	22.29	20.92	17.98
		1860	22.9	22.28	20.75	17.75	22.96	22.34	20.81	17.81
	50% RB mid	1905	21.85	20.88	19.76	17.76	21.91	20.94	19.82	17.82
		1882.5	21.88	20.88	19.77	17.8	21.94	20.94	19.83	17.86
		1860	21.95	21	19.88	17.94	22.01	21.06	19.94	18.00
	100 % RB	1905	21.85	20.89	19.76	17.77	21.91	20.95	19.82	17.83
		1882.5	21.84	20.89	19.78	17.71	21.90	20.95	19.84	17.77
		1860	21.94	20.96	19.88	17.9	22.00	21.02	19.94	17.96

LTE band 26(814MHz~824MHz)- ERP
Limits: ≤38.45dBm (100W)

Max ERP: 20.27dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -0.4dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4M Hz	1 RB high	823.3	22.61	21.83	20.87	17.73	20.06	19.28	18.32	15.18
		819	22.63	21.86	20.66	17.75	20.08	19.31	18.11	15.20
		814.7	22.62	21.71	21.09	17.72	20.07	19.16	18.54	15.17
	1 RB low	823.3	22.57	21.85	20.81	17.72	20.02	19.30	18.26	15.17
		819	22.62	21.85	20.63	17.72	20.07	19.30	18.08	15.17
		814.7	22.65	21.74	21.09	17.79	20.10	19.19	18.54	15.24
	50% RB mid	823.3	22.67	21.96	20.88	17.8	20.12	19.41	18.33	15.25
		819	22.67	21.93	20.71	17.76	20.12	19.38	18.16	15.21
		814.7	22.69	21.77	21.07	17.79	20.14	19.22	18.52	15.24
	100% RB	823.3	21.7	20.61	20.03	17.76	19.15	18.06	17.48	15.21
		819	21.72	20.9	19.8	17.64	19.17	18.35	17.25	15.09
		814.7	21.72	20.93	19.74	17.75	19.17	18.38	17.19	15.20
3MHz	1 RB high	822.5	22.71	21.79	20.68	17.74	20.16	19.24	18.13	15.19
		819	22.7	21.83	20.67	17.71	20.15	19.28	18.12	15.16
		815.5	22.76	21.89	20.71	17.79	20.21	19.34	18.16	15.24
	1 RB low	822.5	22.71	21.81	20.65	17.64	20.16	19.26	18.10	15.09
		819	22.72	21.89	20.71	17.73	20.17	19.34	18.16	15.18
		815.5	22.79	21.95	20.81	17.78	20.24	19.40	18.26	15.23
	50% RB mid	822.5	21.73	20.81	19.73	17.8	19.18	18.26	17.18	15.25
		819	21.72	20.84	19.71	17.77	19.17	18.29	17.16	15.22
		815.5	21.81	20.9	19.78	17.85	19.26	18.35	17.23	15.30
	100% RB	822.5	21.76	20.82	19.86	17.72	19.21	18.27	17.31	15.17
		819	21.73	20.71	19.82	17.7	19.18	18.16	17.27	15.15
		815.5	21.84	20.78	19.88	17.78	19.29	18.23	17.33	15.23
5MHz	1 RB high	821.5	22.71	21.85	20.91	17.76	20.16	19.30	18.36	15.21
		819	22.7	21.84	20.91	17.81	20.15	19.29	18.36	15.26
		816.5	22.71	21.66	20.84	17.86	20.16	19.11	18.29	15.31
	1 RB low	821.5	22.74	21.84	20.89	17.72	20.19	19.29	18.34	15.17
		819	22.73	21.84	20.99	17.82	20.18	19.29	18.44	15.27
		816.5	22.79	21.73	20.91	17.91	20.24	19.18	18.36	15.36
	50% RB mid	821.5	21.82	20.92	19.89	17.89	19.27	18.37	17.34	15.34
		819	21.82	20.88	19.88	17.87	19.27	18.33	17.33	15.32
		816.5	21.83	20.92	19.92	17.92	19.28	18.37	17.37	15.37
	100% RB	821.5	21.8	20.82	19.8	17.82	19.25	18.27	17.25	15.27
		819	21.81	20.76	19.81	17.75	19.26	18.21	17.26	15.20
		816.5	21.83	20.84	19.87	17.85	19.28	18.29	17.32	15.30

10MHz	1 RB high	819	22.71	21.81	20.68	17.8	20.16	19.26	18.13	15.25
	1 RB low	819	22.73	21.8	20.74	17.8	20.18	19.25	18.19	15.25
	50% RB mid	819	22.75	21.79	20.68	17.78	20.20	19.24	18.13	15.23
	100% RB	819	22.82	21.94	20.77	17.85	20.27	19.39	18.22	15.30

LTE band 26(824MHz~849MHz)- ERP
Limits: ≤38.45dBm (7W)

Max ERP: 20.24dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -0.4dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4M Hz	1 RB high	848.3	22.45	21.79	20.7	17.71	19.90	19.24	18.15	15.16
		836.5	22.59	21.82	20.82	17.64	20.04	19.27	18.27	15.09
		824.7	22.61	21.66	21.08	17.92	20.06	19.11	18.53	15.37
	1 RB low	848.3	22.51	21.8	20.72	17.64	19.96	19.25	18.17	15.09
		836.5	22.59	21.83	20.86	17.64	20.04	19.28	18.31	15.09
		824.7	22.58	21.67	21.03	17.78	20.03	19.12	18.48	15.23
	50% RB mid	848.3	22.52	21.66	20.94	17.69	19.97	19.11	18.39	15.14
		836.5	22.64	21.75	20.99	17.85	20.09	19.20	18.44	15.30
		824.7	22.64	21.98	20.87	17.79	20.09	19.43	18.32	15.24
	100% RB	848.3	21.59	20.79	19.63	17.65	19.04	18.24	17.08	15.10
		836.5	21.7	20.87	19.66	17.74	19.15	18.32	17.11	15.19
		824.7	21.71	20.62	20	17.69	19.16	18.07	17.45	15.14
3MHz	1 RB high	847.5	22.59	21.64	20.62	17.67	20.04	19.09	18.07	15.12
		836.5	22.69	21.73	20.65	17.77	20.14	19.18	18.10	15.22
		825.5	22.74	22.06	21.02	17.79	20.19	19.51	18.47	15.24
	1 RB low	847.5	22.66	21.72	20.74	17.74	20.11	19.17	18.19	15.19
		836.5	22.71	21.81	20.64	17.68	20.16	19.26	18.09	15.13
		825.5	22.78	21.97	20.97	17.73	20.23	19.42	18.42	15.18
	50% RB mid	847.5	21.69	20.78	19.63	17.74	19.14	18.23	17.08	15.19
		836.5	21.74	20.84	19.73	17.83	19.19	18.29	17.18	15.28
		825.5	21.76	20.83	19.73	17.82	19.21	18.28	17.18	15.27
	100% RB	847.5	21.66	20.66	19.69	17.76	19.11	18.11	17.14	15.21
		836.5	21.75	20.71	19.82	17.79	19.20	18.16	17.27	15.24
		825.5	21.74	20.72	19.82	17.77	19.19	18.17	17.27	15.22
5MHz	1 RB high	846.5	22.61	21.8	20.84	17.79	20.06	19.25	18.29	15.24
		836.5	22.71	21.79	20.88	17.82	20.16	19.24	18.33	15.27
		826.5	22.77	21.82	20.98	17.86	20.22	19.27	18.43	15.31
	1 RB low	846.5	22.71	21.87	20.9	17.82	20.16	19.32	18.35	15.27
		836.5	22.7	21.84	20.89	17.77	20.15	19.29	18.34	15.22
		826.5	22.77	21.88	20.92	17.79	20.22	19.33	18.37	15.24
	50% RB mid	846.5	21.77	20.78	19.82	17.85	19.22	18.23	17.27	15.30
		836.5	21.81	20.85	19.87	17.9	19.26	18.30	17.32	15.35
		826.5	21.8	20.9	19.9	17.93	19.25	18.35	17.35	15.38
	100% RB	846.5	21.76	20.68	19.75	17.77	19.21	18.13	17.20	15.22
		836.5	21.81	20.77	19.79	17.82	19.26	18.22	17.24	15.27
		826.5	21.82	20.8	19.87	17.79	19.27	18.25	17.32	15.24

10MH z	1 RB high	844	22.69	21.78	20.6	17.76	20.14	19.23	18.05	15.21
		836.5	22.7	21.78	20.69	17.78	20.15	19.23	18.14	15.23
		829	22.73	21.84	20.68	17.75	20.18	19.29	18.13	15.20
	1 RB low	844	22.77	21.8	20.65	17.75	20.22	19.25	18.10	15.20
		836.5	22.77	21.84	20.72	17.72	20.22	19.29	18.17	15.17
		829	22.79	21.87	20.67	17.73	20.24	19.32	18.12	15.18
	50% RB mid	844	21.79	20.86	19.96	17.8	19.24	18.31	17.41	15.25
		836.5	21.82	20.97	19.93	17.89	19.27	18.42	17.38	15.34
		829	21.86	20.91	19.95	17.92	19.31	18.36	17.40	15.37
	100% RB	844	21.75	20.82	19.82	17.75	19.20	18.27	17.27	15.20
		836.5	21.85	20.9	19.9	17.8	19.30	18.35	17.35	15.25
		829	21.89	20.93	19.92	17.85	19.34	18.38	17.37	15.30
15MH z	1 RB high	841.5	22.55	22	21	17.87	20.00	19.45	18.45	15.32
		836.5	22.65	22.09	21.08	17.96	20.10	19.54	18.53	15.41
		831.5	22.63	22.1	21.06	17.94	20.08	19.55	18.51	15.39
	1 RB low	841.5	22.67	22.14	21.07	17.89	20.12	19.59	18.52	15.34
		836.5	22.65	22.11	21.1	17.87	20.10	19.56	18.55	15.32
		831.5	22.63	22.08	21.03	17.8	20.08	19.53	18.48	15.25
	50% RB mid	841.5	21.69	20.7	19.74	17.66	19.14	18.15	17.19	15.11
		836.5	21.71	20.65	19.73	17.59	19.16	18.10	17.18	15.04
		831.5	21.74	20.63	19.78	17.61	19.19	18.08	17.23	15.06
	100% RB	841.5	21.72	20.69	19.74	17.59	19.17	18.14	17.19	15.04
		836.5	21.72	20.74	19.8	17.67	19.17	18.19	17.25	15.12
		831.5	21.67	20.65	19.76	17.61	19.12	18.10	17.21	15.06

LTE band 30- EIRP

Limits: ≤24 dBm/5MHz

Max EIRP: 22.81dBm/5MHz

Band width	RB size/offset	Frequency (MHz)	Power (dBm/10MHz)				EIRP(dBm/5MHz) GT = -0.01dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2312.5	22.82	22.14	21.05	17.95	22.81	22.13	21.04	17.94
		2310	22.61	21.85	20.93	17.91	22.60	21.84	20.92	17.90
		2307.5	22.61	21.95	20.88	17.77	22.60	21.94	20.87	17.76
	1 RB low	2312.5	22.63	21.93	20.91	17.64	22.62	21.92	20.90	17.63
		2310	22.65	21.98	20.92	17.67	22.64	21.97	20.91	17.66
		2307.5	22.50	21.98	20.91	17.79	22.49	21.97	20.90	17.78
	100 % RB	2312.5	20.86	19.94	18.92	16.99	20.85	19.93	18.91	16.98
		2310	20.83	19.92	18.95	16.92	20.82	19.91	18.94	16.91
		2307.5	20.90	19.90	18.96	16.85	20.89	19.89	18.95	16.84
10MHz	1 RB high	2310	22.76	22.07	20.99	17.84	22.75	22.06	20.98	17.83
	1 RB low	2310	22.51	22.03	20.86	17.72	22.50	22.02	20.85	17.71
	100 % RB	2310	19.46	18.35	17.51	15.50	19.45	18.34	17.50	15.49

LTE band 40- EIRP

Limits: ≤24 dBm/5MHz

Max EIRP: 23.3dBm/5MHz

Band width	RB size/offset	Frequency (MHz)	Power (dBm/10MHz)				EIRP(dBm/5MHz) GT = -0.01dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2312.5	22.74	22.28	20.82	18.02	22.73	22.27	20.81	18.01
		2310	23.11	22.61	21.21	18.26	23.10	22.60	21.20	18.25
		2307.5	22.54	22.11	20.71	17.83	22.53	22.10	20.70	17.82
	1 RB low	2312.5	22.57	22.03	20.67	17.79	22.56	22.02	20.66	17.78
		2310	23.26	22.47	21.26	18.45	23.25	22.46	21.25	18.44
		2307.5	22.71	21.89	20.59	17.71	22.70	21.88	20.58	17.70
	100 % RB	2312.5	21.49	20.51	19.44	17.54	21.48	20.50	19.43	17.53
		2310	21.92	20.95	20.92	17.94	21.91	20.94	20.91	17.93
		2307.5	21.47	20.47	19.52	17.56	21.46	20.46	19.51	17.55

LTE band 41- EIRP
Limits: ≤33 dBm (2W)

Max EIRP: 26.22dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.09dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	26.03	25.41	24.22	21.15	26.12	25.50	24.31	21.24
		2593	26.03	25.32	24.27	21.34	26.12	25.41	24.36	21.43
		2498.5	25.94	25.21	24.16	21.2	26.03	25.30	24.25	21.29
	1 RB low	2687.5	25.95	25.34	24.23	21.25	26.04	25.43	24.32	21.34
		2593	25.94	25.4	24.23	21.22	26.03	25.49	24.32	21.31
		2498.5	25.93	25.22	24.15	21.21	26.02	25.31	24.24	21.30
	50% RB mid	2687.5	25.15	24.33	23.26	21.3	25.24	24.42	23.35	21.39
		2593	25.15	24.36	23.27	21.34	25.24	24.45	23.36	21.43
		2498.5	25.08	24.13	23.21	21.28	25.17	24.22	23.30	21.37
	100% RB	2687.5	25.11	24.23	23.26	21.31	25.20	24.32	23.35	21.40
		2593	25.16	24.2	23.24	21.22	25.25	24.29	23.33	21.31
		2498.5	25.04	24.13	23.18	21.11	25.13	24.22	23.27	21.20
10MHz	1 RB high	2685	26.07	25.32	24.25	21.24	26.16	25.41	24.34	21.33
		2593	25.99	25.34	24.14	21.08	26.08	25.43	24.23	21.17
		2501	26.04	25.31	24.18	21.2	26.13	25.40	24.27	21.29
	1 RB low	2685	26.07	25.33	24.25	21.25	26.16	25.42	24.34	21.34
		2593	26.13	25.4	24.27	21.23	26.22	25.49	24.36	21.32
		2501	26.05	25.38	24.27	21.22	26.14	25.47	24.36	21.31
	50% RB mid	2685	25.21	24.26	23.31	21.25	25.30	24.35	23.40	21.34
		2593	25.21	24.23	23.32	21.35	25.30	24.32	23.41	21.44
		2501	25.13	24.14	23.26	21.33	25.22	24.23	23.35	21.42
	100% RB	2685	25.2	24.26	23.27	21.21	25.29	24.35	23.36	21.30
		2593	25.26	24.27	23.26	21.2	25.35	24.36	23.35	21.29
		2501	25.11	24.14	23.18	21.14	25.20	24.23	23.27	21.23
15MHz	1 RB high	2682.5	25.92	25.18	23.95	21	26.01	25.27	24.04	21.09
		2593	25.89	25.22	24.31	21.25	25.98	25.31	24.40	21.34
		2503.5	25.78	25.06	23.8	21.18	25.87	25.15	23.89	21.27
	1 RB low	2682.5	25.88	25.23	23.98	21.02	25.97	25.32	24.07	21.11
		2593	25.87	25.22	24	21.03	25.96	25.31	24.09	21.12
		2503.5	25.77	25.05	23.9	20.91	25.86	25.14	23.99	21.00
	50% RB mid	2682.5	25	24.01	23.07	21.07	25.09	24.10	23.16	21.16
		2593	25.07	24.03	23.06	21.13	25.16	24.12	23.15	21.22
		2503.5	24.9	23.88	22.91	20.86	24.99	23.97	23.00	20.95
	100% RB	2682.5	25.04	24.1	23.08	21.05	25.13	24.19	23.17	21.14
		2593	25.05	24.08	23.1	21.15	25.14	24.17	23.19	21.24
		2503.5	24.95	23.94	22.91	21.05	25.04	24.03	23.00	21.14

20MHz	1 RB high	2680	25.84	25.16	23.88	21.04	25.93	25.25	23.97	21.13
		2593	25.95	25.28	23.98	21.11	26.04	25.37	24.07	21.20
		2506	25.8	25.08	23.85	21.04	25.89	25.17	23.94	21.13
	1 RB low	2680	25.91	25.24	24.06	21.04	26.00	25.33	24.15	21.13
		2593	25.89	25.24	24.04	21.39	25.98	25.33	24.13	21.48
		2506	25.73	25.05	23.81	21.25	25.82	25.14	23.90	21.34
	50% RB mid	2680	25.05	24.06	23.12	21.15	25.14	24.15	23.21	21.24
		2593	25.07	24.13	23.11	21.18	25.16	24.22	23.20	21.27
		2506	25.02	24	23.02	21.03	25.11	24.09	23.11	21.12
	100% RB	2680	25.07	24.09	23.05	21.11	25.16	24.18	23.14	21.20
		2593	25.09	24.1	23.09	21.11	25.18	24.19	23.18	21.20
		2506	25.02	23.99	23.01	21.06	25.11	24.08	23.10	21.15

LTE band 48- EIRP
Limits: ≤23 dBm/10MHz

Max EIRP: 20 dBm/10MHz

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm/10MHz)				Radiated Power (dBm/10MHz) GT = -3.79dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3697.5	23.09	22.43	21.23	18.41	19.30	18.64	17.44	14.62
		3625	23.79	23.10	21.92	19.08	20.00	19.31	18.13	15.29
		3552.5	23.13	22.51	21.24	18.25	19.34	18.72	17.45	14.46
	1 RB low	3697.5	23.08	22.26	21.21	18.31	19.29	18.47	17.42	14.52
		3625	23.81	23.05	21.98	19.13	20.02	19.26	18.19	15.34
		3552.5	23.06	22.49	21.22	18.32	19.27	18.70	17.43	14.53
	100% RB	3697.5	21.91	21.00	19.90	18.06	18.12	17.21	16.11	14.27
		3625	22.67	21.76	20.66	18.70	18.88	17.97	16.87	14.91
		3552.5	22.04	21.02	19.99	18.00	18.25	17.23	16.20	14.21
10MHz	1 RB high	3695	23.04	22.37	21.28	18.26	19.25	18.58	17.49	14.47
		3625	23.69	23.36	21.73	18.77	19.90	19.57	17.94	14.98
		3555	23.11	22.73	21.20	18.18	19.32	18.94	17.41	14.39
	1 RB low	3695	23.05	22.67	21.11	18.18	19.26	18.88	17.32	14.39
		3625	23.79	23.35	21.90	19.09	20.00	19.56	18.11	15.30
		3555	23.06	22.71	21.26	18.32	19.27	18.92	17.47	14.53
	100% RB	3695	21.35	20.41	19.44	17.49	17.56	16.62	15.65	13.70
		3625	22.16	21.14	20.20	18.01	18.37	17.35	16.41	14.22
		3555	21.45	20.51	19.53	17.45	17.66	16.72	15.74	13.66
15MHz	1 RB high	3692.5	22.96	22.23	21.02	18.17	19.17	18.44	17.23	14.38
		3625	23.55	22.69	21.67	18.68	19.76	18.90	17.88	14.89
		3557.5	22.80	21.94	20.91	17.99	19.01	18.15	17.12	14.20
	1 RB low	3692.5	22.81	22.00	21.00	18.05	19.02	18.21	17.21	14.26
		3625	23.53	22.76	21.84	18.85	19.74	18.97	18.05	15.06
		3557.5	22.92	22.15	21.03	18.23	19.13	18.36	17.24	14.44
	100% RB	3692.5	20.41	19.45	18.52	16.56	16.62	15.66	14.73	12.77
		3625	21.13	20.23	19.16	17.19	17.34	16.44	15.37	13.40
		3557.5	20.40	19.48	18.46	16.47	16.61	15.69	14.67	12.68
20MHz	1 RB high	3690	22.92	22.10	21.14	18.14	19.13	18.31	17.35	14.35
		3625	23.44	22.60	21.50	18.64	19.65	18.81	17.71	14.85
		3560	22.51	21.71	20.75	17.83	18.72	17.92	16.96	14.04
	1 RB low	3690	22.68	21.96	20.84	18.03	18.89	18.17	17.05	14.24
		3625	23.41	22.61	21.65	18.76	19.62	18.82	17.86	14.97
		3560	22.95	22.20	21.15	18.18	19.16	18.41	17.36	14.39
	100% RB	3690	19.57	18.53	17.58	15.62	15.78	14.74	13.79	11.83
		3625	20.32	19.41	18.33	16.44	16.53	15.62	14.54	12.65
		3560	19.58	18.50	17.61	15.64	15.79	14.71	13.82	11.85

LTE band 66- EIRP
Limits: ≤30dBm (1W)

Max EIRP: 23.19dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.15dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	22.85	22.19	21.19	18.22	23.00	22.34	21.34	18.37
		1745	22.79	22.25	21	17.96	22.94	22.40	21.15	18.11
		1710.7	22.75	22.15	20.96	18.02	22.90	22.30	21.11	18.17
	1 RB low	1779.3	22.82	22.32	21.1	18.17	22.97	22.47	21.25	18.32
		1745	22.86	22.16	21.14	18.14	23.01	22.31	21.29	18.29
		1710.7	22.77	22.21	21.07	18.05	22.92	22.36	21.22	18.20
	50% RB mid	1779.3	23	22.02	21.01	18.35	23.15	22.17	21.16	18.50
		1745	22.95	21.98	21.08	18.21	23.10	22.13	21.23	18.36
		1710.7	22.89	21.97	21	18.29	23.04	22.12	21.15	18.44
	100% RB	1779.3	21.98	21.04	19.92	17.86	22.13	21.19	20.07	18.01
		1745	21.95	20.97	19.91	17.9	22.10	21.12	20.06	18.05
		1710.7	21.58	20.89	19.8	17.85	21.73	21.04	19.95	18.00
3MHz	1 RB high	1778.5	22.96	22.23	21.17	18.17	23.11	22.38	21.32	18.32
		1745	22.93	22.38	21.08	18.03	23.08	22.53	21.23	18.18
		1711.5	22.9	22.36	20.95	17.9	23.05	22.51	21.10	18.05
	1 RB low	1778.5	22.99	22.32	21.11	18.08	23.14	22.47	21.26	18.23
		1745	22.92	22.29	20.92	17.96	23.07	22.44	21.07	18.11
		1711.5	22.91	22.19	21	17.94	23.06	22.34	21.15	18.09
	50% RB mid	1778.5	22.12	21.16	19.99	17.97	22.27	21.31	20.14	18.12
		1745	22.04	21.13	19.98	17.98	22.19	21.28	20.13	18.13
		1711.5	21.98	21.09	20.02	17.95	22.13	21.24	20.17	18.10
	100% RB	1778.5	22.05	21.07	19.98	17.98	22.20	21.22	20.13	18.13
		1745	22.03	21.05	19.92	17.93	22.18	21.20	20.07	18.08
		1711.5	22	21.06	19.93	17.88	22.15	21.21	20.08	18.03
5MHz	1 RB high	1777.5	22.99	22.35	21.13	18.1	23.14	22.50	21.28	18.25
		1745	22.95	22.3	21.11	18.05	23.10	22.45	21.26	18.20
		1712.5	22.92	22.31	20.94	17.97	23.07	22.46	21.09	18.12
	1 RB low	1777.5	23.04	22.34	20.98	17.99	23.19	22.49	21.13	18.14
		1745	22.92	22.44	20.94	17.97	23.07	22.59	21.09	18.12
		1712.5	22.93	22.4	20.95	17.99	23.08	22.55	21.10	18.14
	50% RB mid	1777.5	22.1	21.14	19.95	17.98	22.25	21.29	20.10	18.13
		1745	22.02	21.01	19.87	17.83	22.17	21.16	20.02	17.98
		1712.5	22.01	21.05	19.98	18	22.16	21.20	20.13	18.15
	100% RB	1777.5	22.13	21.09	19.92	17.89	22.28	21.24	20.07	18.04
		1745	22.07	21.1	19.91	17.96	22.22	21.25	20.06	18.11
		1712.5	22.01	21.02	19.9	17.84	22.16	21.17	20.05	17.99

10MH z	1 RB high	1775	22.91	22.33	21.08	18.1	23.06	22.48	21.23	18.25
		1745	22.9	22.14	20.97	18	23.05	22.29	21.12	18.15
		1715	22.83	22.19	20.94	17.93	22.98	22.34	21.09	18.08
	1 RB low	1775	22.98	22.37	21.1	18.08	23.13	22.52	21.25	18.23
		1745	22.93	22.45	20.77	17.8	23.08	22.60	20.92	17.95
		1715	22.88	22.33	20.99	18	23.03	22.48	21.14	18.15
	50% RB mid	1775	22.05	21.06	19.94	17.88	22.20	21.21	20.09	18.03
		1745	21.98	21.03	19.89	17.96	22.13	21.18	20.04	18.11
		1715	22.04	21.06	19.97	17.99	22.19	21.21	20.12	18.14
	100% RB	1775	22.04	21.1	19.91	17.95	22.19	21.25	20.06	18.10
		1745	22.02	21.03	19.87	17.81	22.17	21.18	20.02	17.96
		1715	21.99	20.99	19.93	17.9	22.14	21.14	20.08	18.05
15MH z	1 RB high	1772.5	22.85	22.15	20.95	17.92	23.00	22.30	21.10	18.07
		1745	22.76	22.01	20.89	17.93	22.91	22.16	21.04	18.08
		1717.5	22.71	22.11	20.7	17.73	22.86	22.26	20.85	17.88
	1 RB low	1772.5	22.9	22.26	21.01	17.98	23.05	22.41	21.16	18.13
		1745	22.81	22.14	20.91	17.98	22.96	22.29	21.06	18.13
		1717.5	22.73	22.12	20.66	17.67	22.88	22.27	20.81	17.82
	50% RB mid	1772.5	21.91	20.9	19.82	17.76	22.06	21.05	19.97	17.91
		1745	21.85	20.83	19.79	17.8	22.00	20.98	19.94	17.95
		1717.5	21.84	20.83	19.79	17.75	21.99	20.98	19.94	17.90
	100% RB	1772.5	21.9	20.93	19.82	17.86	22.05	21.08	19.97	18.01
		1745	21.86	20.84	19.74	17.78	22.01	20.99	19.89	17.93
		1717.5	21.86	20.87	19.77	17.73	22.01	21.02	19.92	17.88
20MH z	1 RB high	1770	22.8	22.32	20.87	18.1	22.95	22.47	21.02	18.25
		1745	22.75	22.13	20.84	18.08	22.90	22.28	20.99	18.23
		1720	22.71	22.09	20.88	18.13	22.86	22.24	21.03	18.28
	1 RB low	1770	22.95	22.34	20.93	18.17	23.10	22.49	21.08	18.32
		1745	22.78	22.1	20.77	17.99	22.93	22.25	20.92	18.14
		1720	22.69	22.05	20.87	18	22.84	22.20	21.02	18.15
	50% RB mid	1770	21.96	21.03	19.9	18.04	22.11	21.18	20.05	18.19
		1745	21.93	20.89	19.75	18	22.08	21.04	19.90	18.15
		1720	21.88	20.87	19.74	18	22.03	21.02	19.89	18.15
	100% RB	1770	21.9	20.99	19.75	17.93	22.05	21.14	19.90	18.08
		1745	21.81	20.81	19.71	17.9	21.96	20.96	19.86	18.05
		1720	21.86	20.89	19.77	17.9	22.01	21.04	19.92	18.05

LTE band 71- ERP
Limits: ≤34.77 dBm (3W)

Max ERP: 20.62dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -0.23dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	22.83	22.11	21.15	17.94	20.45	19.73	18.77	15.56
		680.5	22.87	22.25	21.19	18.07	20.49	19.87	18.81	15.69
		665.5	22.87	22.19	21.25	18.07	20.49	19.81	18.87	15.69
	1 RB low	695.5	22.82	22.21	21.11	17.97	20.44	19.83	18.73	15.59
		680.5	22.83	22.25	21.05	17.96	20.45	19.87	18.67	15.58
		665.5	22.94	22.29	21.18	17.97	20.56	19.91	18.80	15.59
	50% RB mid	695.5	22	21.01	20.09	18.07	19.62	18.63	17.71	15.69
		680.5	21.94	20.94	19.99	17.95	19.56	18.56	17.61	15.57
		665.5	22.04	20.96	20.1	18.03	19.66	18.58	17.72	15.65
	100% RB	695.5	21.85	20.83	19.95	18.06	19.47	18.45	17.57	15.68
		680.5	21.88	20.86	19.99	18.05	19.50	18.48	17.61	15.67
		665.5	22.01	21.02	20.12	17.95	19.63	18.64	17.74	15.57
10MHz	1 RB high	693	22.84	22.19	21.17	18.02	20.46	19.81	18.79	15.64
		680.5	22.87	22.09	21.33	18.05	20.49	19.71	18.95	15.67
		668	22.94	22.24	21.32	18.01	20.56	19.86	18.94	15.63
	1 RB low	693	22.89	22.26	21.44	17.97	20.51	19.88	19.06	15.59
		680.5	22.91	22.26	21.15	18.06	20.53	19.88	18.77	15.68
		668	23	22.38	21.2	18.04	20.62	20.00	18.82	15.66
	50% RB mid	693	21.92	20.9	20.02	17.97	19.54	18.52	17.64	15.59
		680.5	21.93	20.92	20.05	18.05	19.55	18.54	17.67	15.67
		668	22	20.94	20.08	18.02	19.62	18.56	17.70	15.64
	100% RB	693	21.91	20.9	19.98	18.07	19.53	18.52	17.60	15.69
		680.5	21.88	20.89	20.03	18	19.50	18.51	17.65	15.62
		668	21.97	20.95	20.09	17.95	19.59	18.57	17.71	15.57
15MHz	1 RB high	690.5	22.75	22.12	21.09	17.95	20.37	19.74	18.71	15.57
		680.5	22.83	22.13	21.04	17.95	20.45	19.75	18.66	15.57
		670.5	22.71	22.19	20.98	18.03	20.33	19.81	18.60	15.65
	1 RB low	690.5	22.71	22.1	20.97	18.05	20.33	19.72	18.59	15.67
		680.5	22.49	22.24	21.03	17.97	20.11	19.86	18.65	15.59
		670.5	22.73	22.22	21.11	18	20.35	19.84	18.73	15.62
	50% RB mid	690.5	21.78	20.75	19.9	18	19.40	18.37	17.52	15.62
		680.5	21.75	20.82	19.91	17.93	19.37	18.44	17.53	15.55
		670.5	21.79	20.86	19.9	17.96	19.41	18.48	17.52	15.58
	100% RB	690.5	21.71	20.75	19.87	18.02	19.33	18.37	17.49	15.64
		680.5	21.79	20.78	19.88	18.07	19.41	18.40	17.50	15.69
		670.5	21.83	20.85	19.98	17.98	19.45	18.47	17.60	15.60

20MHz	1 RB high	688	22.71	22	21.09	17.94	20.33	19.62	18.71	15.56
		680.5	22.76	22.03	21	18.07	20.38	19.65	18.62	15.69
		673	22.81	21.99	21.1	17.95	20.43	19.61	18.72	15.57
	1 RB low	688	22.69	22.14	21.02	17.99	20.31	19.76	18.64	15.61
		680.5	22.66	22.03	20.94	18.02	20.28	19.65	18.56	15.64
		673	22.75	22.12	20.99	18.02	20.37	19.74	18.61	15.64
	50% RB mid	688	21.86	20.87	19.96	17.96	19.48	18.49	17.58	15.58
		680.5	21.8	20.79	19.86	18	19.42	18.41	17.48	15.62
		673	21.87	20.85	19.98	17.98	19.49	18.47	17.60	15.60
	100% RB	688	21.83	20.85	19.95	18.03	19.45	18.47	17.57	15.65
		680.5	21.78	20.75	19.92	17.99	19.40	18.37	17.54	15.61
		673	21.96	20.85	20	18.06	19.58	18.47	17.62	15.68

LTE CA Band 5B
Limits: ≤38.45dBm (7W)

Max EIRP: 21.33dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power (dBm)	Radiated Power (dBm) GT = -0.4dBi
				Size	Offset	Size	Offset		
3MHz/ 5MHz	834.1	838	QPSK	1	14	1	0	23.37	20.82
				15	0	25	0	23.63	21.08
			16QAM	1	14	1	0	23.64	21.09
				15	0	25	0	23.8	21.25
			64QAM	1	14	1	0	23.88	21.33
				15	0	25	0	23.72	21.17
			256QAM	1	14	1	0	23.37	20.82
				15	0	25	0	23.76	21.21
5MHz/ 3MHz	835	838.9	QPSK	1	24	1	0	23.38	20.83
				25	0	15	0	23.6	21.05
			16QAM	1	24	1	0	23.44	20.89
				25	0	15	0	23.63	21.08
			64QAM	1	24	1	0	23.83	21.28
				25	0	15	0	23.69	21.14
			256QAM	1	24	1	0	23.56	21.01
				25	0	15	0	23.57	21.02
5MHz/ 10MHz	831.8	839	QPSK	1	24	1	0	23.25	20.7
				25	0	50	0	21.44	18.89
			16QAM	1	24	1	0	22.33	19.78
				25	0	50	0	20.45	17.9
			64QAM	1	24	1	0	21.26	18.71
				25	0	50	0	20.47	17.92
			256QAM	1	24	1	0	18.45	15.9
				25	0	50	0	18.47	15.92
10MHz/ 5MHz	834	841.2	QPSK	1	49	1	0	23.33	20.78
				50	0	25	0	21.51	18.96
			16QAM	1	49	1	0	22.55	20
				50	0	25	0	20.5	17.95
			64QAM	1	49	1	0	21.18	18.63
				50	0	25	0	20.54	17.99
			256QAM	1	49	1	0	18.45	15.9
				50	0	25	0	18.6	16.05
10MHz/ 10MHz	831.6	841.5	QPSK	1	49	1	0	23.41	20.86
				50	0	50	0	21.5	18.95

			16QAM	1	49	1	0	22.49	19.94
				50	0	50	0	20.53	17.98
			64QAM	1	49	1	0	21.44	18.89
				50	0	50	0	20.51	17.96
			256QA M	1	49	1	0	18.39	15.84
				50	0	50	0	18.53	15.98

LTE CA LTE band 41C- EIRP

Limits: ≤33 dBm (2W)

Max EIRP: 23.59dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = 0.09dBi
				Size	Offset	Size	Offset		
5MHz/ 20MHz	2583.8	2595.5	QPSK	1	24	1	0	23.25	23.34
				25	0	100	0	21.42	21.51
			16QAM	1	24	1	0	22.46	22.55
				25	0	100	0	20.43	20.52
			64QAM	1	24	1	0	21.42	21.51
				25	0	100	0	20.5	20.59
			256QAM	1	24	1	0	18.44	18.53
				25	0	100	0	18.45	18.54
10MHz/ 15MHz	2585.9	2597.9	QPSK	1	49	1	0	23.36	23.45
				50	0	75	0	21.43	21.52
			16QAM	1	49	1	0	22.11	22.20
				50	0	75	0	20.46	20.55
			64QAM	1	49	1	0	21.57	21.66
				50	0	75	0	20.5	20.59
			256QAM	1	49	1	0	18.33	18.42
				50	0	75	0	18.47	18.56
10MHz/ 20MHz	2583.6	2598	QPSK	1	49	1	0	23.34	23.43
				50	0	100	0	21.41	21.50
			16QAM	1	49	1	0	22.68	22.77
				50	0	100	0	20.43	20.52
			64QAM	1	49	1	0	21.21	21.30
				50	0	100	0	20.47	20.56
			256QAM	1	49	1	0	18.51	18.60
				50	0	100	0	18.47	18.56
15MHz/ 10MHz	2588.1	2600.1	QPSK	1	74	1	0	23.35	23.44
				75	0	50	0	21.42	21.51
			16QAM	1	74	1	0	22.5	22.59
				75	0	50	0	20.49	20.58
			64QAM	1	74	1	0	21.66	21.75
				75	0	50	0	20.53	20.62
			256QAM	1	74	1	0	18.87	18.96
				75	0	50	0	18.47	18.56
15MHz/ 15MHz	2585.5	2600.5	QPSK	1	74	1	0	23.2	23.29
				75	0	75	0	21.45	21.54
			16QAM	1	74	1	0	22.46	22.55

			M	75	0	75	0	20.43	20.52
			64QA	1	74	1	0	21.27	21.36
			M	75	0	75	0	20.45	20.54
			256Q	1	74	1	0	18.34	18.43
			AM	75	0	75	0	18.51	18.60
15MHz/ 20MHz	2583.3	2600.4	QPSK	1	74	1	0	23.23	23.32
				75	0	100	0	21.44	21.53
			16QA M	1	74	1	0	22.39	22.48
				75	0	100	0	20.46	20.55
			64QA M	1	74	1	0	21.48	21.57
				75	0	100	0	20.47	20.56
			256Q AM	1	74	1	0	18.33	18.42
				75	0	100	0	18.48	18.57
20MHz/ 5MHz	2590.5	2602.2	QPSK	1	99	1	0	23.5	23.59
				100	0	25	0	21.45	21.54
			16QA M	1	99	1	0	22.43	22.52
				100	0	25	0	20.51	20.60
			64QA M	1	99	1	0	21.5	21.59
				100	0	25	0	20.51	20.60
			256Q AM	1	99	1	0	18.5	18.59
				100	0	25	0	18.47	18.56
20MHz/ 10MHz	2588.1	2602.5	QPSK	1	99	1	0	23.46	23.55
				100	0	50	0	21.48	21.57
			16QA M	1	99	1	0	22.41	22.50
				100	0	50	0	20.55	20.64
			64QA M	1	99	1	0	21.69	21.78
				100	0	50	0	20.58	20.67
			256Q AM	1	99	1	0	18.49	18.58
				100	0	50	0	18.53	18.62
20MHz/ 15MHz	2585.6	2602.7	QPSK	1	99	1	0	23.39	23.48
				100	0	75	0	21.51	21.60
			16QA M	1	99	1	0	22.45	22.54
				100	0	75	0	20.55	20.64
			64QA M	1	99	1	0	21.63	21.72
				100	0	75	0	20.5	20.59
			256Q AM	1	99	1	0	18.16	18.25
				100	0	75	0	18.46	18.55
20MHz/ 20MHz	2583.1	2602.9	QPSK	1	99	1	0	23.34	23.43
				100	0	100	0	21.51	21.60
			16QA M	1	99	1	0	22.35	22.44
				100	0	100	0	20.55	20.64
			64QA M	1	99	1	0	21.55	21.64
				100	0	100	0	20.54	20.63



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			256Q	1	99	1	0	18.37	18.46
			AM	100	0	100	0	18.53	18.62

LTE CA LTE band 66B- EIRP
Limits: ≤30dBm (1W)

Max EIRP: 23.82dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = 0.15dBi
				Size	Offset	Size	Offset		
5MHz/ 5MHz	1752.6	1757.4	QPSK	1	24	1	0	23.67	23.82
				25	0	25	0	21.79	21.94
			16QAM	1	24	1	0	22.84	22.99
				25	0	25	0	20.78	20.93
			64QAM	1	24	1	0	21.74	21.89
				25	0	25	0	20.85	21
			256QAM	1	24	1	0	18.83	18.98
				25	0	25	0	18.82	18.97
5MHz/ 10MHz	1750.3	1757.5	QPSK	1	24	1	0	23.49	23.64
				25	0	50	0	21.62	21.77
			16QAM	1	24	1	0	22.67	22.82
				25	0	50	0	20.6	20.75
			64QAM	1	24	1	0	21.58	21.73
				25	0	50	0	20.72	20.87
			256QAM	1	24	1	0	18.66	18.81
				25	0	50	0	18.7	18.85
5MHz/ 15MHz	1748.1	1757.4	QPSK	1	24	1	0	23.57	23.72
				25	0	75	0	21.69	21.84
			16QAM	1	24	1	0	22.77	22.92
				25	0	75	0	20.68	20.83
			64QAM	1	24	1	0	21.61	21.76
				25	0	75	0	20.72	20.87
			256QAM	1	24	1	0	18.71	18.86
				25	0	75	0	18.72	18.87
10MHz/ 5MHz	1752.5	1759.7	QPSK	1	49	1	0	23.55	23.7
				50	0	25	0	21.7	21.85
			16QAM	1	49	1	0	22.68	22.83
				50	0	25	0	20.69	20.84
			64QAM	1	49	1	0	21.43	21.58
				50	0	25	0	20.74	20.89
			256QAM	1	49	1	0	18.66	18.81
				50	0	25	0	18.76	18.91
10MHz/ 10MHz	1750.1	1760	QPSK	1	49	1	0	23.6	23.75
				50	0	50	0	21.66	21.81
			16QAM	1	49	1	0	22.7	22.85

15MHz/ 5MHz	1752.6	1761.9		50	0	50	0	20.69	20.84
				1	49	1	0	21.48	21.63
			64QAM	50	0	50	0	20.72	20.87
				1	49	1	0	18.69	18.84
			256QAM	50	0	50	0	18.72	18.87
				1	74	1	0	23.5	23.65
			QPSK	75	0	25	0	21.67	21.82
				1	74	1	0	22.74	22.89
			16QAM	75	0	25	0	20.63	20.78
				1	74	1	0	21.48	21.63
			64QAM	75	0	25	0	20.72	20.87
				1	74	1	0	18.65	18.8
			256QAM	75	0	25	0	18.74	18.89

LTE CA LTE band 66C- EIRP
Limits: ≤30dBm (1W)

Max EIRP: 23.72dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = 0.15dBi
				Size	Offset	Size	Offset		
5MHz/ 20MHz	1745.8	1757.5	QPSK	1	24	1	0	23.58	23.73
				25	0	100	0	21.68	21.83
			16QAM	1	24	1	0	22.75	22.9
				25	0	100	0	20.73	20.88
			64QAM	1	24	1	0	21.57	21.72
				25	0	100	0	20.68	20.83
			256QAM	1	24	1	0	18.65	18.8
				25	0	100	0	18.6	18.75
10MHz/ 15MHz	1747.9	1757.9	QPSK	1	49	1	0	23.57	23.72
				50	0	75	0	21.67	21.82
			16QAM	1	49	1	0	22.64	22.79
				50	0	75	0	20.62	20.77
			64QAM	1	49	1	0	21.44	21.59
				50	0	75	0	20.68	20.83
			256QAM	1	49	1	0	18.62	18.77
				50	0	75	0	18.66	18.81
10MHz/ 20MHz	1745.6	1760	QPSK	1	49	1	0	23.56	23.71
				50	0	100	0	21.68	21.83
			16QAM	1	49	1	0	22.45	22.6
				50	0	100	0	20.67	20.82
			64QAM	1	49	1	0	21.55	21.7
				50	0	100	0	20.69	20.84
			256QAM	1	49	1	0	18.66	18.81
				50	0	100	0	18.68	18.83
15MHz/ 10MHz	1750.1	1762.1	QPSK	1	74	1	0	23.38	23.53
				75	0	50	0	21.63	21.78
			16QAM	1	74	1	0	22.52	22.67
				75	0	50	0	20.61	20.76
			64QAM	1	74	1	0	21.27	21.42
				75	0	50	0	20.68	20.83
			256QAM	1	74	1	0	18.46	18.61
				75	0	50	0	18.61	18.76
15MHz/ 15MHz	1747.5	1762.5	QPSK	1	74	1	0	23.37	23.52
				75	0	75	0	21.61	21.76
			16QAM	1	74	1	0	22.54	22.69

			64QAM	75	0	75	0	20.6	20.75
				1	74	1	0	21.33	21.48
				75	0	75	0	20.69	20.84
			256QAM	1	74	1	0	18.5	18.65
				75	0	75	0	18.67	18.82
			15MHz/ 20MHz	1745.3	1762.4	QPSK	1	74	1
75	0	100					0	21.64	21.79
16QAM	1	74				1	0	22.63	22.78
	75	0				100	0	20.67	20.82
64QAM	1	74				1	0	21.41	21.56
	75	0				100	0	20.7	20.85
20MHz/ 5MHz	1752.5	1764.2	QPSK	1	99	1	0	23.48	23.63
				100	0	25	0	21.67	21.82
			16QAM	1	99	1	0	22.36	22.51
				100	0	25	0	20.67	20.82
			64QAM	1	99	1	0	21.55	21.7
				100	0	25	0	20.63	20.78
20MHz/ 10MHz	1750.1	1764.5	QPSK	1	99	1	0	23.49	23.64
				100	0	50	0	21.68	21.83
			16QAM	1	99	1	0	22.36	22.51
				100	0	50	0	20.7	20.85
			64QAM	1	99	1	0	21.58	21.73
				100	0	50	0	20.69	20.84
20MHz/ 15MHz	1747.6	1764.7	QPSK	1	99	1	0	23.45	23.6
				100	0	75	0	21.65	21.8
			16QAM	1	99	1	0	22.37	22.52
				100	0	75	0	20.7	20.85
			64QAM	1	99	1	0	21.58	21.73
				100	0	75	0	20.68	20.83
20MHz/ 20MHz	1745.1	1764.9	QPSK	1	99	1	0	23.55	23.7
				100	0	100	0	21.7	21.85
			16QAM	1	99	1	0	22.37	22.52
				100	0	100	0	20.72	20.87
			64QAM	1	99	1	0	21.64	21.79
				100	0	100	0	20.75	20.9

			256QA	1	99	1	0	18.48	18.63
			M	100	0	100	0	18.67	18.82

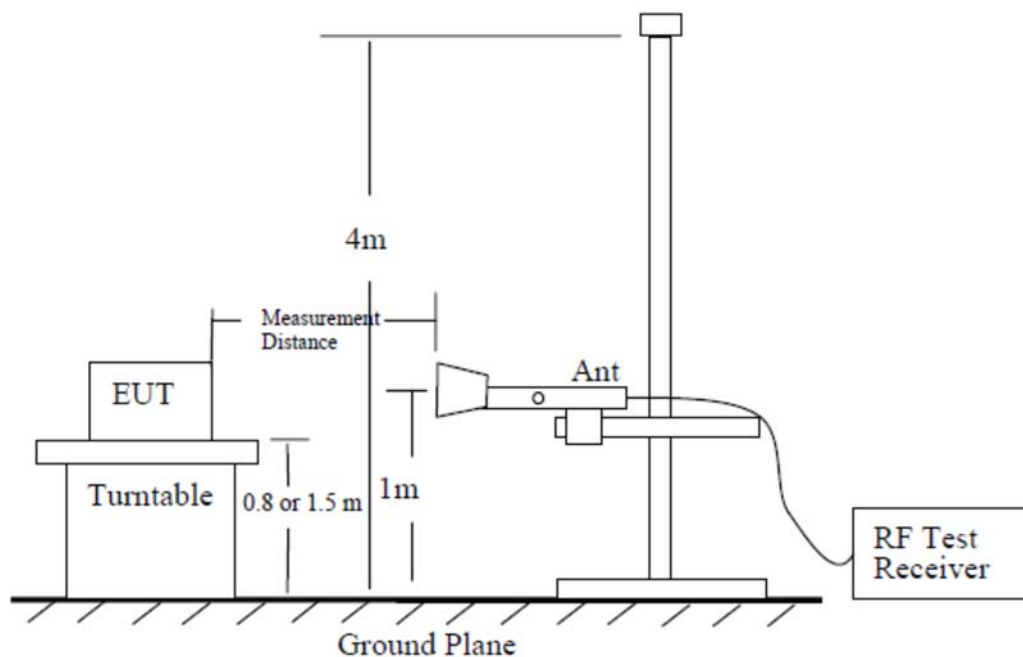
A.2 Emission Limit

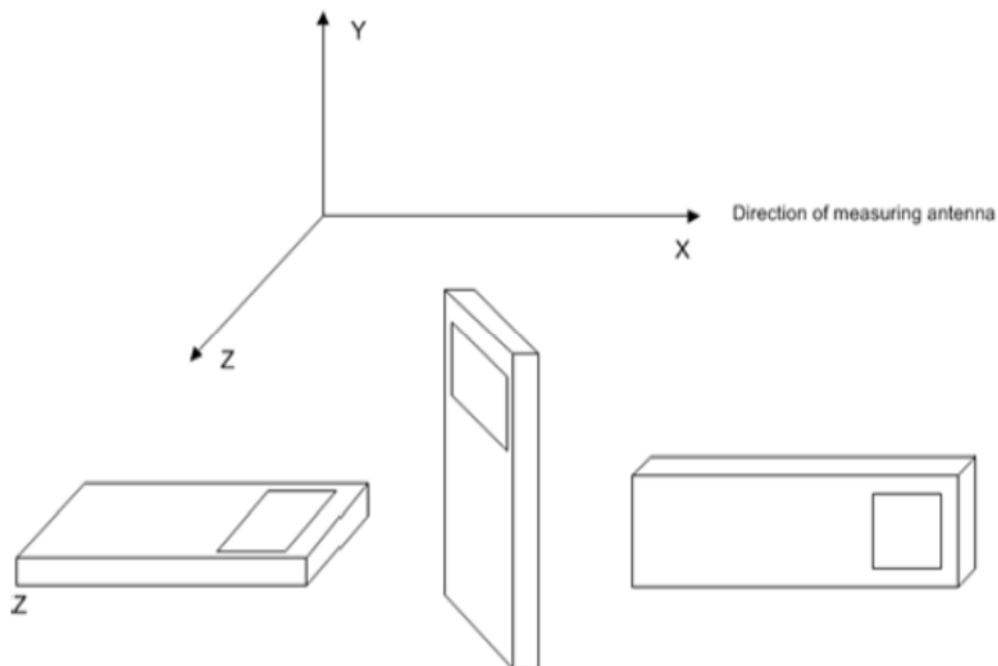
The measurements procedures in C63.26 are used.

The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of the LTE Bands 2/4/5/7/12/13/14/25/26/30/40/41/66/71.

The procedure of radiated spurious emissions is as follows:

Using the test configuration as follow, measure the radiated emissions directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits.





The emission characteristics of the EUT can be identified from the pre-scan measurement information.

Exploratory radiated measurements (pre-scans) may be performed to determine the general EUT radiated emissions characteristics and, when necessary, the EUT-to-measurement antenna orientation that produces the maximum emission amplitude. Pre-scans shall only be used to determine the emission frequencies (i.e., not amplitude levels). The information garnered from a pre-scan can then be used to perform final compliance measurements using either the substitution or direct field strength method.

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

The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.

For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table or support at a nominal height of 1.5 m above the ground plane. When maximizing the emissions from the EUT for measurement, the EUT and its transmitting antenna(s) shall be rotated through 360°. For each mode of operation to be tested, the frequency spectrum (based on findings from exploratory measurements) shall be monitored. Final measurements shall be performed for the worst case combination(s) of variable technical parameters that result in the maximum measured emission amplitude, record the frequency and amplitude of the highest fundamental emission (if applicable), and the frequency and amplitude data for the six highest-amplitude spurious emissions.

A.2.2 Measurement Limit

FDD Band 7/41: 27.53(m) (4) specifies " For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. "

FDD Band 12/71: 27.53(g) specifies " 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 ".

FDD Band 13: 27.53(f) specifies " For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation. "

FDD Band 14: 90.543(e)(3) specifies " On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB."

FDD Band 25/2: 24.238 specify that 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.

FDD Band 26(814MHz-824MHz) Part 90.691 specifies " For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz."

FDD Band 26(824MHz-849MHz)/5 Part 22.917 specifies " Out of band emissions. 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."

FDD Band 30: 27.53(a)(4)(ii) specify "By a factor of not less than $70 + 10 \log (P)$ dB below 2288

MHz” and 27.53(a)(4)(iii) specify “By a factor of not less than $70 + 10 \log (P)$ dB above 2365 MHz.”

FDD Band 66: 27.53(h) specifies “AWS emission limits—(1) General protection levels. 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”

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the LTE Bands. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the LTE Bands 2/4/5/7/12/13/14/25/26/30/40/41/66/71 into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this. The range of evaluated frequency is from 30MHz to 26GHz.

Measurement Results:
LTE Band 7, 5MHz, QPSK, Channel 20775

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4987.02	-60.05	6.63	9.89	-56.79	-25.00	31.79	V
7494.01	-53.55	8.38	12.19	-49.74	-25.00	24.74	V
10014.01	-53.31	9.22	12.91	-49.62	-25.00	24.62	H
12520.01	-48.06	10.23	13.21	-45.08	-25.00	20.08	V
15000.00	-42.91	11.22	14.00	-40.13	-25.00	15.13	H
17513.00	-39.62	12.77	14.92	-37.47	-25.00	12.47	H

LTE Band 7, 5MHz, QPSK, Channel 21100

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5089.02	-59.50	6.74	10.02	-56.22	-25.00	31.22	H
7608.01	-52.57	8.01	12.29	-48.29	-25.00	23.29	V
10144.01	-52.63	9.39	12.96	-49.06	-25.00	24.06	H
12673.01	-46.62	10.34	13.30	-43.66	-25.00	18.66	H
15201.00	-44.62	11.40	13.88	-42.14	-25.00	17.14	H
17761.00	-40.73	12.52	15.27	-37.98	-25.00	12.98	H

LTE Band 7, 5MHz, QPSK, Channel 21425

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.02	-58.37	6.86	10.09	-55.14	-25.00	30.14	V
7704.01	-51.78	8.42	12.36	-47.84	-25.00	22.84	H
10279.01	-51.90	9.57	13.01	-48.46	-25.00	23.46	V
12820.01	-47.77	10.71	13.39	-45.09	-25.00	20.09	H
15389.00	-43.81	11.38	13.77	-41.42	-25.00	16.42	V
17972.00	-40.97	12.89	15.56	-38.30	-25.00	13.30	H

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1326.01	-56.40	3.14	4.60	2.15	-57.09	-13.00	44.09	H
2001.00	-49.98	4.06	4.60	2.15	-51.59	-13.00	38.59	H
2676.00	-45.13	4.76	6.42	2.15	-45.62	-13.00	32.62	H
3338.02	-60.71	5.31	7.81	2.15	-60.36	-13.00	47.36	V
4007.02	-58.78	6.06	8.91	2.15	-58.08	-13.00	45.08	H
4674.02	-58.75	6.48	9.57	2.15	-57.81	-13.00	44.81	V

LTE Band 12, 1.4MHz, QPSK, Channel 23095

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.01	-56.46	3.27	5.12	2.15	-56.76	-13.00	43.76	H
2123.00	-43.35	4.21	4.97	2.15	-44.74	-13.00	31.74	H
2835.00	-45.62	4.95	6.70	2.15	-46.02	-13.00	33.02	H
3543.02	-58.88	5.75	8.26	2.15	-58.52	-13.00	45.52	V
4245.02	-57.08	6.24	9.15	2.15	-56.32	-13.00	43.32	H
4946.01	-57.11	6.70	9.85	2.15	-56.11	-13.00	43.11	V

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1424.01	-55.09	3.27	5.10	2.15	-55.41	-13.00	42.41	H
2146.00	-45.28	4.24	5.04	2.15	-46.63	-13.00	33.63	V
2874.00	-44.80	4.97	6.77	2.15	-45.15	-13.00	32.15	H
3569.02	-58.45	6.02	8.30	2.15	-58.32	-13.00	45.32	V
4293.02	-56.91	6.20	9.19	2.15	-56.07	-13.00	43.07	V
5021.01	-58.07	6.57	9.93	2.15	-56.86	-13.00	43.86	V

LTE Band 13, 5MHz, QPSK, Channel 23205

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.53	-67.04	3.47	5.39	0.00	-67.27	-40.00	27.27	H
2338.98	-46.10	4.44	5.62	2.15	-47.07	-13.00	34.07	H
3114.02	-59.72	5.37	7.27	2.15	-59.97	-13.00	46.97	V
3900.52	-60.00	6.11	8.76	2.15	-59.50	-13.00	46.50	V
4673.02	-58.01	6.48	9.57	2.15	-57.07	-13.00	44.07	H
5453.01	-58.34	6.88	10.53	2.15	-56.84	-13.00	43.84	V

LTE Band 13, 5MHz, QPSK, Channel 23230

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.56	-67.11	3.48	5.38	0.00	-67.36	-40.00	27.36	H
2346.70	-45.25	4.45	5.64	2.15	-46.21	-13.00	33.21	H
3127.52	-59.28	5.40	7.31	2.15	-59.52	-13.00	46.52	V
3913.02	-59.34	6.12	8.78	2.15	-58.83	-13.00	45.83	V
4695.52	-58.37	6.50	9.60	2.15	-57.42	-13.00	44.42	H
5474.51	-57.15	6.96	10.56	2.15	-55.70	-13.00	42.70	V

LTE Band 13, 5MHz, QPSK, Channel 23255

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1582.07	-67.21	3.50	5.35	0.00	-67.51	-40.00	27.51	H
2354.16	-47.19	4.46	5.66	2.15	-48.14	-13.00	35.14	H
3143.02	-59.17	5.38	7.34	2.15	-59.36	-13.00	46.36	V
3935.02	-59.35	6.12	8.81	2.15	-58.81	-13.00	45.81	V
4714.02	-58.74	6.52	9.61	2.15	-57.80	-13.00	44.80	V
5503.01	-57.74	7.07	10.60	2.15	-56.36	-13.00	43.36	H

LTE Band 14, 5MHz, QPSK, Channel 23305

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1581.54	-67.01	3.50	5.35	0.00	-67.31	-40.00	27.31	H
2371.72	-46.72	4.48	5.72	2.15	-47.63	-13.00	34.63	H
3164.02	-60.04	5.35	7.39	2.15	-60.15	-13.00	47.15	V
3954.02	-58.97	6.10	8.84	2.15	-58.38	-13.00	45.38	V
4744.02	-59.14	6.56	9.64	2.15	-58.21	-13.00	45.21	V
5538.01	-57.46	7.17	10.59	2.15	-56.19	-13.00	43.19	H

LTE Band 14, 5MHz, QPSK, Channel 23330

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1586.34	-66.82	3.50	5.34	0.00	-67.13	-40.00	27.13	H
2379.37	-47.44	4.49	5.74	2.15	-48.34	-13.00	35.34	H
3171.52	-60.47	5.34	7.41	2.15	-60.55	-13.00	47.55	V
3961.52	-59.45	6.10	8.85	2.15	-58.85	-13.00	45.85	V
4758.01	-58.83	6.59	9.66	2.15	-57.91	-13.00	44.91	H
5547.01	-57.18	7.18	10.59	2.15	-55.92	-13.00	42.92	V

LTE Band 14, 5MHz, QPSK, Channel 23355

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1591.59	-66.59	3.51	5.34	0.00	-66.91	-40.00	26.91	H
2387.01	-47.52	4.50	5.76	2.15	-48.41	-13.00	35.41	H
3178.52	-60.57	5.33	7.43	2.15	-60.62	-13.00	47.62	V
3979.52	-58.99	6.08	8.87	2.15	-58.35	-13.00	45.35	V
4777.01	-58.86	6.62	9.68	2.15	-57.95	-13.00	44.95	V
5566.01	-58.10	7.20	10.59	2.15	-56.86	-13.00	43.86	V

LTE Band 25, 1.4MHz, QPSK, Channel 26047

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5553.02	-52.34	7.18	10.59	-48.93	-13.00	35.93	V
8972.01	-52.33	9.10	13.09	-48.34	-13.00	35.34	V
11689.01	-49.22	9.63	13.06	-45.79	-13.00	32.79	H
13622.01	-42.74	10.79	14.27	-39.26	-13.00	26.26	H
14990.00	-43.35	11.21	14.01	-40.55	-13.00	27.55	H
17272.00	-39.12	12.37	14.40	-37.09	-13.00	24.09	H

LTE Band 25, 1.4MHz, QPSK, Channel 26365

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5650.02	-44.83	7.27	10.57	-41.53	-13.00	28.53	H
9428.01	-53.58	9.18	13.36	-49.40	-13.00	36.40	H
11256.01	-48.09	9.73	13.15	-44.67	-13.00	31.67	V
13138.01	-43.94	10.77	13.69	-41.02	-13.00	28.02	V
15100.00	-43.74	11.35	13.94	-41.15	-13.00	28.15	V
16985.00	-40.21	12.32	13.79	-38.74	-13.00	25.74	H

LTE Band 25, 1.4MHz, QPSK, Channel 26683

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5743.02	-49.33	7.27	10.55	-46.05	-13.00	33.05	H
9573.01	-53.96	9.28	13.33	-49.91	-13.00	36.91	V
11470.01	-49.38	9.89	13.11	-46.16	-13.00	33.16	V
13424.01	-44.15	10.59	14.09	-40.65	-13.00	27.65	H
15336.00	-44.29	11.32	13.80	-41.81	-13.00	28.81	H
17268.00	-38.10	12.36	14.39	-36.07	-13.00	23.07	V

LTE Band 26(814-824MHz), 1.4MHz, QPSK, Channel 26797

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1650.01	-53.88	3.57	5.23	2.15	-54.37	-13.00	41.37	H
2474.00	-44.76	4.60	6.02	2.15	-45.49	-13.00	32.49	H
3306.02	-61.66	5.29	7.73	2.15	-61.37	-13.00	48.37	V
4130.02	-53.55	6.05	9.03	2.15	-52.72	-13.00	39.72	V
4968.01	-57.08	6.66	9.87	2.15	-56.02	-13.00	43.02	H
5788.01	-56.67	7.21	10.54	2.15	-55.49	-13.00	42.49	H

LTE Band 26(814-824MHz), 1.4MHz, QPSK, Channel 26915

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.01	-54.00	3.58	5.19	2.15	-54.54	-13.00	41.54	H
2510.00	-42.65	4.63	6.12	2.15	-43.31	-13.00	30.31	H
3365.02	-60.02	5.33	7.88	2.15	-59.62	-13.00	46.62	V
4184.02	-47.14	6.17	9.08	2.15	-46.38	-13.00	33.38	V
5015.01	-57.63	6.58	9.92	2.15	-56.44	-13.00	43.44	V
5857.01	-55.05	7.26	10.53	2.15	-53.93	-13.00	40.93	V

LTE Band 26(814-824MHz), 1.4MHz, QPSK, Channel 27033

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1704.01	-53.57	3.60	5.13	2.15	-54.19	-13.00	41.19	V
2545.00	-39.48	4.66	6.18	2.15	-40.11	-13.00	27.11	H
3412.02	-61.02	5.37	7.99	2.15	-60.55	-13.00	47.55	H
4243.02	-54.83	6.25	9.14	2.15	-54.09	-13.00	41.09	H
5097.01	-57.25	6.76	10.04	2.15	-56.12	-13.00	43.12	V
5936.01	-56.16	7.47	10.51	2.15	-55.27	-13.00	42.27	V

LTE Band 26(824-849MHz), 1.4MHz, QPSK, Channel 26797

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2444.00	-36.60	4.57	5.93	2.15	-37.39	-13.00	24.39	H
4077.02	-54.44	6.04	8.98	2.15	-53.65	-13.00	40.65	V
7332.01	-52.32	8.10	12.00	2.15	-50.57	-13.00	37.57	H
8159.01	-52.04	8.43	12.73	2.15	-49.89	-13.00	36.89	V
8977.00	-50.67	9.12	13.10	2.15	-48.84	-13.00	35.84	V
9767.00	-51.69	8.96	13.13	2.15	-49.67	-13.00	36.67	V

LTE Band 26(824-849MHz), 1.4MHz, QPSK, Channel 26915

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1638.01	-53.84	3.56	5.25	2.15	-54.30	-13.00	41.30	H
2457.00	-37.24	4.58	5.97	2.15	-38.00	-13.00	25.00	H
3257.02	-60.69	5.28	7.62	2.15	-60.50	-13.00	47.50	H
4095.02	-50.76	6.04	9.00	2.15	-49.95	-13.00	36.95	V
4900.01	-57.59	6.73	9.80	2.15	-56.67	-13.00	43.67	V
5734.01	-56.83	7.29	10.55	2.15	-55.72	-13.00	42.72	H

LTE Band 26(824-849MHz), 1.4MHz, QPSK, Channel 27033

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2470.00	-36.72	4.59	6.01	2.15	-37.45	-13.00	24.45	H
4119.02	-50.16	6.04	9.02	2.15	-49.33	-13.00	36.33	V
7590.01	-51.41	8.02	12.27	2.15	-49.31	-13.00	36.31	V
8338.00	-51.43	8.66	12.87	2.15	-49.37	-13.00	36.37	V
9225.00	-50.17	8.98	13.24	2.15	-48.06	-13.00	35.06	V
9859.00	-50.89	9.07	13.04	2.15	-49.07	-13.00	36.07	V

LTE Band 30, 5MHz, QPSK, Channel 27658

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4616.02	-68.40	6.45	9.52	-65.33	-40.00	25.33	V
6923.01	-56.19	7.72	11.51	-52.40	-40.00	12.40	H
9246.01	-63.12	9.03	13.25	-58.90	-40.00	18.90	V
11518.01	-59.80	9.81	13.10	-56.51	-40.00	16.51	V
13864.01	-55.16	10.73	14.42	-51.47	-40.00	11.47	H
16143.00	-52.98	11.80	13.67	-51.11	-40.00	11.11	H

LTE Band 30, 5MHz, QPSK, Channel 27710

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4619.02	-67.58	6.45	9.52	-64.51	-40.00	24.51	V
6930.01	-48.74	7.76	11.52	-44.98	-40.00	4.98	H
9253.01	-62.97	9.05	13.25	-58.77	-40.00	18.77	V
11555.01	-59.58	9.81	13.09	-56.30	-40.00	16.30	V
13879.01	-55.01	10.76	14.43	-51.34	-40.00	11.34	H
16165.00	-52.99	11.77	13.67	-51.09	-40.00	11.09	H

LTE Band 30, 5MHz, QPSK, Channel 27735

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4626.02	-70.17	6.44	9.53	-67.08	-40.00	27.08	V
6938.01	-59.76	7.82	11.53	-56.05	-40.00	16.05	H
9251.01	-62.88	9.04	13.25	-58.67	-40.00	18.67	V
11549.01	-59.99	9.81	13.09	-56.71	-40.00	16.71	V
13885.01	-54.92	10.77	14.43	-51.26	-40.00	11.26	H
16202.00	-53.10	11.73	13.66	-51.17	-40.00	11.17	H

LTE Band 38, 5MHz, QPSK, Channel 37775

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5129.02	-59.08	6.85	10.08	-55.85	-25.00	30.85	H
7730.01	-53.93	8.38	12.38	-49.93	-25.00	24.93	H
10301.01	-50.90	9.64	13.02	-47.52	-25.00	22.52	V
12839.01	-46.71	10.67	13.40	-43.98	-25.00	18.98	H
15467.00	-43.63	11.49	13.72	-41.40	-25.00	16.40	V
17979.00	-40.53	12.90	15.57	-37.86	-25.00	12.86	H

LTE Band 38, 5MHz, QPSK, Channel 38000

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
6453.02	-57.13	7.55	10.95	-53.73	-25.00	28.73	V
9098.01	-52.64	8.94	13.16	-48.42	-25.00	23.42	V
11674.01	-49.16	9.66	13.07	-45.75	-25.00	20.75	H
14296.00	-44.27	10.97	14.44	-40.80	-25.00	15.80	H
15604.00	-43.16	11.49	13.70	-40.95	-25.00	15.95	H
16872.00	-39.71	12.03	13.75	-37.99	-25.00	12.99	H

LTE Band 38, 5MHz, QPSK, Channel 38225

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
6566.02	-57.70	7.66	11.08	-54.28	-25.00	29.28	V
9150.01	-52.86	8.93	13.19	-48.60	-25.00	23.60	V
11757.01	-48.22	9.90	13.05	-45.07	-25.00	20.07	V
14387.00	-44.82	11.03	14.42	-41.43	-25.00	16.43	H
15733.00	-42.97	11.62	13.70	-40.89	-25.00	15.89	H
17011.00	-40.01	12.41	13.82	-38.60	-25.00	13.60	H

LTE Band 40, 5MHz, QPSK, Channel 38725

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4616.02	-70.05	6.45	9.52	-66.98	-40.00	26.98	V
6920.01	-66.99	7.73	11.50	-63.22	-40.00	23.22	V
9239.01	-64.43	9.02	13.24	-60.21	-40.00	20.21	V
11532.01	-60.90	9.81	13.09	-57.62	-40.00	17.62	V
13857.01	-56.30	10.72	14.41	-52.61	-40.00	12.61	H
16151.00	-54.07	11.79	13.67	-52.19	-40.00	12.19	H

LTE Band 40, 5MHz, QPSK, Channel 38750

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4624.02	-70.18	6.45	9.52	-67.11	-40.00	27.11	V
6932.01	-66.86	7.77	11.52	-63.11	-40.00	23.11	V
9250.01	-64.33	9.04	13.25	-60.12	-40.00	20.12	V
11546.01	-61.05	9.81	13.09	-57.77	-40.00	17.77	V
13873.01	-56.04	10.75	14.42	-52.37	-40.00	12.37	H
16169.00	-54.12	11.77	13.67	-52.22	-40.00	12.22	H

LTE Band 40, 5MHz, QPSK, Channel 38775

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4626.02	-69.73	6.44	9.53	-66.64	-40.00	26.64	V
6944.01	-66.77	7.87	11.53	-63.11	-40.00	23.11	V
9256.01	-64.25	9.05	13.25	-60.05	-40.00	20.05	V
11554.01	-61.04	9.81	13.09	-57.76	-40.00	17.76	V
13883.01	-55.87	10.77	14.43	-52.21	-40.00	12.21	H
16183.00	-54.12	11.75	13.66	-52.21	-40.00	12.21	H

LTE Band 41, 5MHz, QPSK, Channel 39675

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4999.02	-49.18	6.60	9.90	-45.88	-25.00	20.88	H
7499.01	-54.63	8.39	12.20	-50.82	-25.00	25.82	V
9990.01	-53.78	9.17	12.91	-50.04	-25.00	25.04	V
12495.01	-49.37	10.19	13.20	-46.36	-25.00	21.36	V
14991.00	-43.55	11.21	14.01	-40.75	-25.00	15.75	H
17494.00	-40.73	12.71	14.89	-38.55	-25.00	13.55	V

LTE Band 41, 5MHz, QPSK, Channel 40620

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5194.02	-59.47	6.95	10.17	-56.25	-25.00	31.25	V
7759.01	-54.87	8.34	12.41	-50.80	-25.00	25.80	H
10356.01	-50.50	9.73	13.04	-47.19	-25.00	22.19	V
12960.01	-47.30	10.48	13.48	-44.30	-25.00	19.30	V
15573.00	-43.23	11.50	13.70	-41.03	-25.00	16.03	H
16881.00	-40.44	12.02	13.75	-38.71	-25.00	13.71	V

LTE Band 41, 5MHz, QPSK, Channel 41565

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5374.02	-50.02	6.88	10.42	-46.48	-25.00	21.48	V
8053.01	-54.18	8.32	12.64	-49.86	-25.00	24.86	V
10744.01	-50.55	9.41	13.15	-46.81	-25.00	21.81	V
13454.01	-44.22	10.61	14.14	-40.69	-25.00	15.69	H
16132.00	-41.63	11.81	13.67	-39.77	-25.00	14.77	H
17461.00	-39.49	12.64	14.81	-37.32	-25.00	12.32	H

LTE Band 66, 1.4MHz, QPSK, Channel 131979

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3422.02	-69.37	5.38	8.01	-66.74	-13.00	53.74	V
5134.02	-60.80	6.86	10.09	-57.57	-13.00	44.57	H
6844.01	-64.11	7.83	11.41	-60.53	-13.00	47.53	V
8586.01	-63.98	8.52	13.02	-59.48	-13.00	46.48	V
10307.01	-61.15	9.65	13.02	-57.78	-13.00	44.78	V
11996.01	-58.61	10.07	13.00	-55.68	-13.00	42.68	V

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.02	-66.86	5.50	8.18	-64.18	-13.00	51.18	H
5236.02	-57.68	7.00	10.23	-54.45	-13.00	41.45	H
6981.01	-63.87	8.15	11.58	-60.44	-13.00	47.44	V
8748.01	-63.58	8.50	13.05	-59.03	-13.00	46.03	V
10451.01	-60.56	9.72	13.08	-57.20	-13.00	44.20	V
12248.01	-58.78	10.03	13.10	-55.71	-13.00	42.71	V

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3559.02	-64.69	5.92	8.28	-62.33	-13.00	49.33	V
5339.02	-62.60	6.96	10.37	-59.19	-13.00	46.19	V
7165.01	-65.47	8.18	11.80	-61.85	-13.00	48.85	V
8950.01	-63.29	9.02	13.09	-59.22	-13.00	46.22	V
10651.01	-61.13	9.29	13.13	-57.29	-13.00	44.29	V
12404.01	-58.56	10.43	13.16	-55.83	-13.00	42.83	V

LTE Band 71, 5MHz, QPSK, Channel 133147

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1311.01	-54.90	3.13	4.52	2.15	-55.66	-13.00	42.66	H
1997.01	-38.95	4.04	4.61	2.15	-40.53	-13.00	27.53	H
2687.00	-44.62	4.77	6.44	2.15	-45.10	-13.00	32.10	H
3328.02	-54.24	5.30	7.79	2.15	-53.90	-13.00	40.90	H
4013.02	-58.36	6.06	8.91	2.15	-57.66	-13.00	44.66	H
4683.02	-58.32	6.49	9.58	2.15	-57.38	-13.00	44.38	V

LTE Band 71, 5MHz, QPSK, Channel 133297

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1366.01	-56.00	3.19	4.80	2.15	-56.54	-13.00	43.54	H
2042.00	-38.78	4.14	4.73	2.15	-40.34	-13.00	27.34	H
2726.00	-44.76	4.81	6.51	2.15	-45.21	-13.00	32.21	H
3403.02	-58.52	5.36	7.97	2.15	-58.06	-13.00	45.06	H
4086.02	-57.49	6.04	8.99	2.15	-56.69	-13.00	43.69	V
4753.01	-58.20	6.58	9.65	2.15	-57.28	-13.00	44.28	V

LTE Band 71, 5MHz, QPSK, Channel 133447

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1417.01	-55.57	3.26	5.07	2.15	-55.91	-13.00	42.91	H
2087.00	-40.87	4.18	4.86	2.15	-42.34	-13.00	29.34	V
2797.00	-46.26	4.91	6.63	2.15	-46.69	-13.00	33.69	V
3468.02	-59.73	5.46	8.12	2.15	-59.22	-13.00	46.22	V
4145.02	-56.81	6.08	9.05	2.15	-55.99	-13.00	42.99	V
4863.01	-56.57	6.72	9.76	2.15	-55.68	-13.00	42.68	V

LTE Band CA_5B, 25+50, QPSK, CH20428+20500

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1641.01	-54.29	3.56	5.25	2.15	-54.75	-13.00	41.75	H
2481.00	-47.79	4.60	6.04	2.15	-48.50	-13.00	35.50	H
3303.02	-62.28	5.29	7.73	2.15	-61.99	-13.00	48.99	V
4127.02	-57.27	6.04	9.03	2.15	-56.43	-13.00	43.43	V
4957.01	-56.71	6.68	9.86	2.15	-55.68	-13.00	42.68	V
5769.01	-57.22	7.24	10.55	2.15	-56.06	-13.00	43.06	V

LTE Band CA_5B, 25+50, QPSK, CH20478+20550

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1658.01	-54.89	3.57	5.22	2.15	-55.39	-13.00	42.39	H
2517.00	-45.68	4.64	6.13	2.15	-46.34	-13.00	33.34	H
3345.02	-61.15	5.31	7.83	2.15	-60.78	-13.00	47.78	V
4177.02	-57.07	6.15	9.08	2.15	-56.29	-13.00	43.29	V
5021.01	-57.70	6.57	9.93	2.15	-56.49	-13.00	43.49	V
5870.01	-56.66	7.30	10.53	2.15	-55.58	-13.00	42.58	V

LTE Band CA_5B, 25+50, QPSK, CH20528+20600

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1700.01	-55.09	3.60	5.14	2.15	-55.70	-13.00	42.70	V
2534.00	-46.88	4.66	6.16	2.15	-47.53	-13.00	34.53	H
3399.02	-61.42	5.36	7.96	2.15	-60.97	-13.00	47.97	V
4234.02	-57.94	6.25	9.13	2.15	-57.21	-13.00	44.21	H
5096.01	-57.18	6.76	10.03	2.15	-56.06	-13.00	43.06	H
5937.01	-56.23	7.47	10.51	2.15	-55.34	-13.00	42.34	V

LTE Band 41C, 50+75, QPSK, CH39703+39823

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4993.02	-60.22	6.62	9.89	-56.95	-25.00	31.95	H
7494.01	-53.58	8.38	12.19	-49.77	-25.00	24.77	V
9990.01	-53.93	9.17	12.91	-50.19	-25.00	25.19	V
12493.01	-48.32	10.19	13.20	-45.31	-25.00	20.31	V
14994.00	-43.90	11.21	14.00	-41.11	-25.00	16.11	V
17489.00	-40.01	12.70	14.88	-37.83	-25.00	12.83	H

LTE Band 41C, 50+75, QPSK, CH40549+40669

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4992.02	-60.40	6.62	9.89	-57.13	-25.00	32.13	V
7498.01	-54.44	8.39	12.20	-50.63	-25.00	25.63	V
9993.01	-53.94	9.17	12.91	-50.20	-25.00	25.20	H
12489.01	-48.37	10.20	13.20	-45.37	-25.00	20.37	H
14994.00	-44.40	11.21	14.00	-41.61	-25.00	16.61	V
17489.00	-38.36	12.70	14.88	-36.18	-25.00	11.18	V

LTE Band 41C, 50+75, QPSK, CH41395+41515

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5000.02	-59.39	6.60	9.90	-56.09	-25.00	31.09	V
7491.01	-54.49	8.37	12.19	-50.67	-25.00	25.67	V
9990.01	-54.09	9.17	12.91	-50.35	-25.00	25.35	V
12491.01	-49.51	10.20	13.20	-46.51	-25.00	21.51	V
14992.00	-44.13	11.21	14.01	-41.33	-25.00	16.33	H
17488.00	-40.71	12.70	14.87	-38.54	-25.00	13.54	H

LTE Band CA_66B, 25+25, QPSK, CH131997+132045

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3430.02	-71.89	5.39	8.03	-69.25	-13.00	56.25	H
5143.02	-66.81	6.87	10.10	-63.58	-13.00	50.58	V
6860.01	-64.11	7.81	11.43	-60.49	-13.00	47.49	V
8608.01	-63.99	8.48	13.02	-59.45	-13.00	46.45	V
10332.01	-60.96	9.69	13.03	-57.62	-13.00	44.62	V
11999.01	-58.55	10.06	13.00	-55.61	-13.00	42.61	V

LTE Band CA_66B, 25+25, QPSK, CH132398+132446

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3510.02	-71.09	5.54	8.21	-68.42	-13.00	55.42	V
5265.02	-67.99	6.99	10.27	-64.71	-13.00	51.71	H
7016.01	-64.22	8.28	11.62	-60.88	-13.00	47.88	V
8753.01	-63.68	8.52	13.05	-59.15	-13.00	46.15	V
10463.01	-60.58	9.71	13.09	-57.20	-13.00	44.20	V
12258.01	-58.82	10.02	13.10	-55.74	-13.00	42.74	V

LTE Band CA_66B, 25+25, QPSK, CH132599+132647

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3550.02	-67.39	5.82	8.27	-64.94	-13.00	51.94	V
5325.02	-63.30	6.99	10.36	-59.93	-13.00	46.93	H
7168.01	-65.48	8.18	11.80	-61.86	-13.00	48.86	V
8951.01	-63.25	9.03	13.09	-59.19	-13.00	46.19	V
10728.01	-61.09	9.37	13.15	-57.31	-13.00	44.31	V
12401.01	-58.49	10.44	13.16	-55.77	-13.00	42.77	V

LTE Band CA_66C, 100+100, QPSK, CH 132072+132270

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3460.02	-72.26	5.45	8.10	-69.61	-13.00	56.61	H
5180.02	-66.93	6.93	10.15	-63.71	-13.00	50.71	H
6851.01	-64.66	7.82	11.42	-61.06	-13.00	48.06	V
8581.01	-63.93	8.53	13.02	-59.44	-13.00	46.44	V
10308.01	-61.00	9.66	13.02	-57.64	-13.00	44.64	V
12003.01	-58.68	10.06	13.00	-55.74	-13.00	42.74	V

LTE Band CA_66C, 100+100, QPSK, CH132323+132521

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3544.02	-71.07	5.76	8.26	-68.57	-13.00	55.57	V
5255.02	-68.95	7.00	10.26	-65.69	-13.00	52.69	H
7002.01	-64.53	8.30	11.60	-61.23	-13.00	48.23	V
8750.01	-63.69	8.51	13.05	-59.15	-13.00	46.15	V
10450.01	-60.55	9.73	13.08	-57.20	-13.00	44.20	V
12251.01	-58.81	10.03	13.10	-55.74	-13.00	42.74	V

LTE Band CA_66C, 100+100, QPSK, CH132374+132572

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3554.02	-70.61	5.86	8.28	-68.19	-13.00	55.19	V
5295.02	-70.71	6.99	10.31	-67.39	-13.00	54.39	V
7172.01	-65.58	8.18	11.81	-61.95	-13.00	48.95	V
8948.01	-63.26	9.02	13.09	-59.19	-13.00	46.19	V
10661.01	-61.14	9.30	13.13	-57.31	-13.00	44.31	V
12401.01	-58.54	10.44	13.16	-55.82	-13.00	42.82	V

LTE Band CA_2A-4A, QPSK, CH18625+19975

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3705.01	-55.39	6.42	8.49	-53.32	-13.00	40.32	V
5560.01	-58.48	7.19	10.59	-55.08	-13.00	42.08	V
7428.01	-53.48	8.19	12.11	-49.56	-13.00	36.56	V
9241.01	-52.35	9.02	13.24	-48.13	-13.00	35.13	V
11099.00	-49.82	9.84	13.18	-46.48	-13.00	33.48	V
13000.00	-46.86	10.47	13.50	-43.83	-13.00	30.83	H

LTE Band CA_2A-4A, QPSK, CH18900+20175

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.01	-58.70	6.26	8.56	-56.40	-13.00	43.40	H
5613.01	-58.12	7.25	10.58	-54.79	-13.00	41.79	H
7505.01	-53.93	8.37	12.20	-50.10	-13.00	37.10	V
9376.01	-53.60	9.06	13.33	-49.33	-13.00	36.33	H
11261.00	-49.50	9.76	13.15	-46.11	-13.00	33.11	V
13152.00	-44.74	10.71	13.71	-41.74	-13.00	28.74	H

LTE Band CA_2A-4A, QPSK, CH19175+20375

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3815.01	-54.08	6.09	8.64	-51.53	-13.00	38.53	H
5723.01	-58.32	7.30	10.56	-55.06	-13.00	42.06	H
7603.01	-54.80	7.99	12.28	-50.51	-13.00	37.51	V
9557.01	-53.54	9.34	13.34	-49.54	-13.00	36.54	V
11419.00	-48.71	10.02	13.12	-45.61	-13.00	32.61	V
13383.00	-44.44	10.57	14.04	-40.97	-13.00	27.97	V

LTE Band CA_2A_5A, QPSK, CH 18625+20425

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1638.51	-55.20	3.56	5.25	2.15	-55.66	-13.00	42.66	H
2489.50	-47.75	4.61	6.07	2.15	-48.44	-13.00	35.44	V
3314.81	-61.76	5.29	7.76	2.15	-61.44	-13.00	48.44	V
3705.50	-53.79	6.41	8.49	2.15	-53.86	-13.00	40.86	V
5558.00	-51.83	7.19	10.59	2.15	-50.58	-13.00	37.58	H
7424.42	-52.01	8.18	12.11	2.15	-50.23	-13.00	37.23	V

LTE Band CA_2A_5A, QPSK, CH 18900+20525

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1680.01	-55.03	3.59	5.18	2.15	-55.59	-13.00	42.59	H
2505.00	-46.93	4.63	6.11	2.15	-47.60	-13.00	34.60	H
3360.77	-60.69	5.33	7.87	2.15	-60.30	-13.00	47.30	V
3760.52	-48.85	6.26	8.56	2.15	-48.70	-13.00	35.70	V
5640.18	-53.38	7.27	10.57	2.15	-52.23	-13.00	39.23	V
7519.14	-52.26	8.31	12.22	2.15	-50.50	-13.00	37.50	V

LTE Band CA_2A_5A, QPSK, CH 19175+20625

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1696.51	-55.10	3.60	5.15	2.15	-55.70	-13.00	42.70	H
2540.00	-45.77	4.66	6.17	2.15	-46.41	-13.00	33.41	H
3400.47	-60.45	5.36	7.96	2.15	-60.00	-13.00	47.00	V
5723.05	-56.99	7.30	10.56	2.15	-55.88	-13.00	42.88	V
7627.08	-52.31	8.10	12.30	2.15	-50.26	-13.00	37.26	V
9539.47	-51.50	9.40	13.36	2.15	-49.69	-13.00	36.69	V

LTE Band CA_2A-12A, QPSK, CH18625+23060

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1433.01	-52.7	3.28	5.15	-50.83	-13	37.83	V
2110	-46.36	4.2	4.93	-45.63	-13	32.63	V
2835	-41.01	4.95	6.7	-39.26	-13	26.26	H
3705.01	-53.73	6.42	8.49	-51.66	-13	38.66	V
5561.01	-58.59	7.19	10.59	-55.19	-13	42.19	H
7389.01	-53.26	8.12	12.07	-49.31	-13	36.31	V

LTE Band CA_2A-12A, QPSK, CH 18900+23095

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1443.01	-53.18	3.3	5.2	-51.28	-13	38.28	H
2152	-46.78	4.25	5.06	-45.97	-13	32.97	H
2843	-41.59	4.96	6.72	-39.83	-13	26.83	H
3761.01	-51.82	6.26	8.57	-49.51	-13	36.51	V
5642.01	-56.38	7.27	10.57	-53.08	-13	40.08	V
7530.01	-53.57	8.27	12.22	-49.62	-13	36.62	V

LTE Band CA_2A-12A, QPSK, CH 19175+23130

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1565.01	-52.11	3.48	5.38	-50.21	-13	37.21	H
2335	-44.55	4.44	5.61	-43.38	-13	30.38	H
3815.01	-60.3	6.09	8.64	-57.75	-13	44.75	H
4703.01	-60.77	6.51	9.6	-57.68	-13	44.68	V
5754.01	-58.85	7.26	10.55	-55.56	-13	42.56	H
7665.01	-54.05	8.27	12.33	-49.99	-13	36.99	H

LTE Band CA_2A-13A, QPSK, CH 18625+23230

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1591.01	-52.01	3.51	5.34	-50.18	-13	37.18	H
2335	-45.15	4.44	5.61	-43.98	-13	30.98	H
3705.01	-53.99	6.42	8.49	-51.92	-13	38.92	V
4707.01	-60.23	6.51	9.61	-57.13	-13	44.13	V
5560.01	-58.05	7.19	10.59	-54.65	-13	41.65	V
7425.01	-52.89	8.19	12.11	-48.97	-13	35.97	V

LTE Band CA_2A-13A, QPSK, CH 18900+23230

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1589.01	-52.21	3.51	5.34	-50.38	-13	37.38	H
2323	-44.97	4.43	5.57	-43.83	-13	30.83	H
3760.01	-49.91	6.26	8.56	-47.61	-13	34.61	V
4681.01	-60.28	6.49	9.58	-57.19	-13	44.19	V
5644.01	-53.42	7.27	10.57	-50.12	-13	37.12	V
7489.01	-53.95	8.36	12.19	-50.12	-13	37.12	V

LTE Band CA_2A-13A, QPSK, CH 19175+23230

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1535.01	-52.99	3.44	5.44	-50.99	-13	37.99	H
2327	-44.9	4.43	5.58	-43.75	-13	30.75	H
3815.01	-55.28	6.09	8.64	-52.73	-13	39.73	V
4716.01	-60.15	6.52	9.62	-57.05	-13	44.05	V
5714.01	-58.46	7.3	10.56	-55.2	-13	42.2	V
7621.01	-54.85	8.07	12.3	-50.62	-13	37.62	V

LTE Band CA_2A-66A, QPSK, CH 18625+132022

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3458.01	-61.97	5.44	8.1	-59.31	-13	46.31	H
3705.01	-53.51	6.42	8.49	-51.44	-13	38.44	V
5144.01	-57.32	6.87	10.1	-54.09	-13	41.09	H
5559.01	-57.75	7.19	10.59	-54.35	-13	41.35	H
6863.01	-53.9	7.81	11.44	-50.27	-13	37.27	V
7416.01	-53.32	8.16	12.1	-49.38	-13	36.38	V

LTE Band CA_2A-66A, QPSK, CH 18900+132322

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3488.01	-61.88	5.5	8.17	-59.21	-13	46.21	H
3760.01	-55.8	6.26	8.56	-53.5	-13	40.5	V
5266.01	-59.32	6.99	10.27	-56.04	-13	43.04	V
5642.01	-56.38	7.27	10.57	-53.08	-13	40.08	H
6961.01	-53.25	8	11.55	-49.7	-13	36.7	V
7488.01	-53.82	8.36	12.19	-49.99	-13	36.99	V

LTE Band CA_2A-66A, QPSK, CH 19175+132622

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3552.01	-59.69	5.84	8.27	-57.26	-13	44.26	V
3816.01	-55.19	6.09	8.64	-52.64	-13	39.64	V
5333.01	-59.25	6.97	10.37	-55.85	-13	42.85	H
5725.01	-57.23	7.3	10.55	-53.98	-13	40.98	H
7134.01	-55.32	8.17	11.76	-51.73	-13	38.73	H
7626.01	-54.31	8.09	12.3	-50.1	-13	37.1	V

LTE Band CA_4A-5A, QPSK, CH 20175+20525

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1703.01	-41.68	3.6	5.13	-40.15	-13	27.15	H
2539	-43.78	4.66	6.17	-42.27	-13	29.27	H
3366.01	-62.6	5.33	7.88	-60.05	-13	47.05	V
3465.01	-57.99	5.46	8.12	-55.33	-13	42.33	H
5198.01	-59.08	6.96	10.18	-55.86	-13	42.86	H
6918.01	-55.09	7.73	11.5	-51.32	-13	38.32	V

LTE Band CA_4A-5A, QPSK, CH 19975+20425

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1634.01	-51.59	3.55	5.26	-49.88	-13	36.88	H
2501	-43.83	4.63	6.1	-42.36	-13	29.36	H
3278.01	-63.43	5.28	7.67	-61.04	-13	48.04	V
3425.01	-59.78	5.38	8.02	-57.14	-13	44.14	H
5138.01	-58.31	6.86	10.09	-55.08	-13	42.08	H
6848.01	-54.77	7.83	11.42	-51.18	-13	38.18	V

LTE Band CA_4A-5A, QPSK, CH 20375+20625

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1718.01	-38.48	3.61	5.11	-36.98	-13	23.98	H
2521	-43.71	4.65	6.14	-42.22	-13	29.22	H
3359.01	-62.24	5.33	7.86	-59.71	-13	46.71	V
3448.01	-61.8	5.43	8.08	-59.15	-13	46.15	H
5218.01	-60.44	6.99	10.21	-57.22	-13	44.22	H
6960.01	-55.17	7.99	11.55	-51.61	-13	38.61	V

LTE Band CA_4A-12A, QPSK, CH 19975+23060

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1421.01	-52.95	3.26	5.09	-51.12	-13	38.12	H
2113	-39.27	4.2	4.94	-38.53	-13	25.53	H
2847	-40.65	4.96	6.72	-38.89	-13	25.89	H
3425.01	-56.2	5.38	8.02	-53.56	-13	40.56	V
5138.01	-56.76	6.86	10.09	-53.53	-13	40.53	H
6832.01	-54.11	7.85	11.4	-50.56	-13	37.56	V

LTE Band CA_4A-12A, QPSK, CH 20175+23095

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1419.01	-52.88	3.26	5.08	-51.06	-13	38.06	H
2133	-39.19	4.23	5	-38.42	-13	25.42	H
2861	-41.75	4.96	6.75	-39.96	-13	26.96	H
3465.01	-58.19	5.46	8.12	-55.53	-13	42.53	V
5200.01	-59.88	6.96	10.18	-56.66	-13	43.66	V
6947.01	-55.3	7.89	11.54	-51.65	-13	38.65	V

LTE Band CA_4A-12A, QPSK, CH 20375+23130

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1432.01	-52.32	3.28	5.15	-50.45	-13	37.45	H
2151	-37.11	4.25	5.05	-36.31	-13	23.31	H
2869	-41.2	4.97	6.76	-39.41	-13	26.41	H
3505.01	-58.24	5.53	8.21	-55.56	-13	42.56	V
5258.01	-59.29	7	10.26	-56.03	-13	43.03	V
7011.01	-53.97	8.28	11.61	-50.64	-13	37.64	V

LTE Band CA_4A-13A, QPSK, CH19975+23230

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3442.01	-62.32	5.41	8.06	-59.67	-13.00	46.67	V
5124.01	-59.12	6.84	10.07	-55.89	-13.00	42.89	V
6859.01	-54.60	7.81	11.43	-50.98	-13.00	37.98	V
8573.01	-53.47	8.54	13.01	-49.00	-13.00	36.00	V
10301.01	-50.59	9.64	13.02	-47.21	-13.00	34.21	V
12000.00	-48.24	10.05	13.00	-45.29	-13.00	32.29	V

LTE Band CA_4A-13A, QPSK, CH20175+23230

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.01	-59.00	5.46	8.12	-56.34	-13.00	43.34	H
5210.01	-60.01	6.98	10.19	-56.80	-13.00	43.80	H
6915.01	-55.14	7.73	11.50	-51.37	-13.00	38.37	V
8649.01	-53.87	8.43	13.03	-49.27	-13.00	36.27	V
10408.01	-50.52	9.79	13.06	-47.25	-13.00	34.25	V
12124.00	-48.75	10.28	13.05	-45.98	-13.00	32.98	V

LTE Band CA_4A-13A, QPSK, CH20375+23230

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3505.01	-59.92	5.53	8.21	-57.24	-13.00	44.24	H
5285.01	-60.35	6.99	10.30	-57.04	-13.00	44.04	V
6998.01	-54.13	8.28	11.60	-50.81	-13.00	37.81	H
8749.01	-53.97	8.51	13.05	-49.43	-13.00	36.43	V
10507.00	-50.98	9.63	13.10	-47.51	-13.00	34.51	V
12258.00	-48.31	10.02	13.10	-45.23	-13.00	32.23	V

LTE Band CA_5A-30A, QPSK, CH 20425+27685

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1643.01	-51.52	3.56	5.24	-49.84	-13	36.84	H
2509	-43.98	4.63	6.12	-42.49	-13	29.49	H
3333.01	-61.77	5.3	7.8	-59.27	-13	46.27	V
4615.01	-59.48	6.45	9.52	-56.41	-13	43.41	V
6951.01	-54.2	7.92	11.54	-50.58	-13	37.58	V
9242.01	-52.53	9.02	13.25	-48.3	-13	35.3	V

LTE Band CA_5A-30A, QPSK, CH 20525+27710

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1645.01	-52.27	3.56	5.24	-50.59	-13	37.59	H
2523	-43.51	4.65	6.14	-42.02	-13	29.02	H
3360.01	-62.81	5.33	7.86	-60.28	-13	47.28	V
4620.01	-60.91	6.45	9.52	-57.84	-13	44.84	V
6936.01	-53.88	7.8	11.52	-50.16	-13	37.16	V
9255.01	-53.05	9.05	13.25	-48.85	-13	35.85	V

LTE Band CA_5A-30A, QPSK, CH 20625+27735

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1692.01	-52.04	3.59	5.15	-50.48	-13	37.48	V
2519	-43.4	4.64	6.13	-41.91	-13	28.91	H
3403.01	-62.97	5.36	7.97	-60.36	-13	47.36	V
4625.01	-57.34	6.44	9.53	-54.25	-13	41.25	V
6940.01	-53.77	7.84	11.53	-50.08	-13	37.08	V
9277.01	-53.16	9.1	13.27	-48.99	-13	35.99	V

LTE Band CA_5A-66A, QPSK, CH20425+132022

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1414.51	-54.78	3.25	5.06	2.15	-55.12	-13.00	42.12	H
2117.50	-29.49	4.21	4.95	2.15	-30.90	-13.00	17.90	H
2826.50	-45.65	4.95	6.69	2.15	-46.06	-13.00	33.06	H
3546.02	-58.22	5.78	8.26	2.15	-57.89	-13.00	44.89	H
4250.80	-57.30	6.24	9.15	2.15	-56.54	-13.00	43.54	V
4965.34	-57.93	6.66	9.87	2.15	-56.87	-13.00	43.87	V

LTE Band CA_5A-66A, QPSK, CH20525+132322

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1428.01	-56.11	3.27	5.13	2.15	-56.40	-13.00	43.40	H
2119.50	-49.67	4.21	4.96	2.15	-51.07	-13.00	38.07	H
2821.00	-44.88	4.94	6.68	2.15	-45.29	-13.00	32.29	H
3539.75	-58.69	5.72	8.26	2.15	-58.30	-13.00	45.30	H
4239.66	-57.45	6.25	9.14	2.15	-56.71	-13.00	43.71	H
4954.89	-57.67	6.68	9.85	2.15	-56.65	-13.00	43.65	V

LTE Band CA_5A-66A, QPSK, CH20625+132622

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1698.51	-47.14	3.60	5.14	2.15	-47.75	-13.00	34.75	H
2539.50	-43.68	4.66	6.17	2.15	-44.32	-13.00	31.32	H
3394.89	-61.60	5.36	7.95	2.15	-61.16	-13.00	48.16	V
4220.86	-57.87	6.25	9.12	2.15	-57.15	-13.00	44.15	H
5090.69	-56.91	6.75	10.03	2.15	-55.78	-13.00	42.78	V
5911.09	-56.16	7.43	10.52	2.15	-55.22	-13.00	42.22	V

LTE Band CA_12A-30A, QPSK, CH23035+27685

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1425.01	-52.39	3.27	5.11	-50.55	-13.00	37.55	V
2104.00	-46.99	4.20	4.91	-46.28	-13.00	33.28	V
2818.00	-41.99	4.94	6.67	-40.26	-13.00	27.26	V
3527.01	-61.02	5.59	8.24	-58.37	-13.00	45.37	H
4195.01	-59.22	6.19	9.10	-56.31	-13.00	43.31	H
4935.01	-59.11	6.72	9.84	-55.99	-13.00	42.99	V

LTE Band CA_12A-30A, QPSK, CH23095+27710

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1440.01	-52.38	3.29	5.19	-50.48	-13.00	37.48	H
2143.00	-46.01	4.24	5.03	-45.22	-13.00	32.22	H
2827.00	-42.06	4.95	6.69	-40.32	-13.00	27.32	H
3548.01	-60.40	5.80	8.27	-57.93	-13.00	44.93	V
4266.01	-59.83	6.23	9.17	-56.89	-13.00	43.89	V
4942.01	-58.97	6.70	9.84	-55.83	-13.00	42.83	V

LTE Band CA_12A-30A, QPSK, CH23155+27735

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4625.01	-58.60	6.44	9.53	-55.51	-13.00	42.51	V
6950.01	-55.65	7.91	11.54	-52.02	-13.00	39.02	V
9237.01	-52.65	9.01	13.24	-48.42	-13.00	35.42	V
11570.00	-49.31	9.80	13.09	-46.02	-13.00	33.02	H
13891.00	-44.75	10.79	14.43	-41.11	-13.00	28.11	H
16207.00	-42.84	11.74	13.66	-40.92	-13.00	27.92	H

LTE Band CA_12A-66A, QPSK, CH 23060+132022

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1436.01	-52.87	3.29	5.17	-50.99	-13	37.99	H
2113	-41.64	4.2	4.94	-40.9	-13	27.9	H
2842	-41.49	4.95	6.72	-39.72	-13	26.72	H
3462.01	-61.6	5.45	8.11	-58.94	-13	45.94	H
5123.01	-59.49	6.84	10.07	-56.26	-13	43.26	H
6852.01	-54.51	7.82	11.42	-50.91	-13	37.91	V

LTE Band CA_12A-66A, QPSK, CH 23095+132322

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1437.01	-52.69	3.29	5.17	-50.81	-13	37.81	H
2149	-40.18	4.25	5.05	-39.38	-13	26.38	H
2850	-42.05	4.96	6.73	-40.28	-13	27.28	H
3480.01	-62.25	5.48	8.15	-59.58	-13	46.58	H
5252.01	-60.39	7	10.25	-57.14	-13	44.14	H
6999.01	-53.94	8.29	11.6	-50.63	-13	37.63	V

LTE Band CA_12A-66A, QPSK, CH 23130+132622

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1424.01	-52.17	3.27	5.1	-50.34	-13	37.34	H
2153	-46.01	4.25	5.06	-45.2	-13	32.2	H
2863	-41.47	4.96	6.75	-39.68	-13	26.68	H
3550.01	-60.01	5.82	8.27	-57.56	-13	44.56	V
5342.01	-60.27	6.95	10.38	-56.84	-13	43.84	H
7084.01	-56.11	8.18	11.7	-52.59	-13	39.59	V

LTE Band CA_14A-30A, QPSK, CH23305+27685

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4615.01	-60.36	6.45	9.52	-57.29	-13.00	44.29	V
6934.01	-55.25	7.79	11.52	-51.52	-13.00	38.52	V
9235.01	-52.47	9.01	13.24	-48.24	-13.00	35.24	V
11566.00	-48.69	9.80	13.09	-45.40	-13.00	32.40	V
13846.00	-45.17	10.70	14.41	-41.46	-13.00	28.46	H
16182.00	-42.47	11.75	13.66	-40.56	-13.00	27.56	V

LTE Band CA_14A-30A, QPSK, CH23330+27710

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4621.01	-60.02	6.45	9.52	-56.95	-13.00	43.95	H
6909.01	-55.59	7.74	11.49	-51.84	-13.00	38.84	H
9237.01	-53.21	9.01	13.24	-48.98	-13.00	35.98	V
11524.00	-49.32	9.81	13.10	-46.03	-13.00	33.03	V
13862.00	-44.06	10.73	14.42	-40.37	-13.00	27.37	H
16173.00	-42.27	11.76	13.67	-40.36	-13.00	27.36	H

LTE Band CA_14A-30A, QPSK, CH23355+27735

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4625.01	-58.40	6.44	9.53	-55.31	-13.00	42.31	V
6923.01	-54.67	7.72	11.51	-50.88	-13.00	37.88	V
9245.01	-53.24	9.03	13.25	-49.02	-13.00	36.02	V
11585.00	-49.36	9.80	13.08	-46.08	-13.00	33.08	H
13862.00	-44.51	10.73	14.42	-40.82	-13.00	27.82	V
16213.00	-43.05	11.74	13.66	-41.13	-13.00	28.13	H

Sample: 5000.02MHz

Power (EIRP) = $P_{Mea} - P_{pl} + G_a$

Power (-56.09dBm) = $P_{Mea} (-59.39dBm) - P_{pl} (6.60dB) + G_a (9.90dBi)$

Note: Expanded measurement uncertainty

Frequency range	Expanded measurement uncertainty
30MHz-1GHz	5.76dB, k=2
1GHz-18GHz	4.69dB, k=2
18GHz-40GHz	3.37dB, k=2

Note: The measurement results showed here are worst cases

A.3 Frequency Stability

A.3.1 Method of Measurement

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 F_L and F_H 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.
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.

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of the lower, higher and nominal voltage. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress.

A.3.2 Measurement results

LTE Band 7, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	2500.897	2569.103		
50				-11.70	0.0046
40				-1.12	0.0004
30				-10.03	0.0040
10				2.50	0.0010
0				-0.89	0.0004
-10				0.13	0.0001
-20				-10.73	0.0042
-30				-9.74	0.0038

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2500.897	2569.103	-0.66	0.0003
4.45				-10.99	0.0043

LTE Band 12, 10MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	699.481	715.519		
50				-4.12	0.0058
40				0.99	0.0014
30				0.70	0.0010
10				0.62	0.0009
0				0.79	0.0011
-10				-4.42	0.0062
-20				2.33	0.0033
-30				0.80	0.0011

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	699.481	715.519	-4.76	0.0067
4.45				2.50	0.0035

LTE Band 13, 10MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	777.481	786.519		
50				-1.20	0.0015
40				-2.05	0.0026
30				0.40	0.0005
10				-0.54	0.0007
0				0.57	0.0007
-10				0.62	0.0008
-20				0.36	0.0005
-30				-12.60	0.0161

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	777.481	786.519	0.01	0.0000
4.45				-0.94	0.0012

LTE Band 14, 10MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	788.486	797.505		
50				0.17	0.0002
40				1.12	0.0014
30				-0.51	0.0006
10				0.06	0.0001
0				0.60	0.0008
-10				1.04	0.0013
-20				0.57	0.0007
-30				0.37	0.0005

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	788.486	797.505	26.97	0.0340
4.45				0.24	0.0003

LTE Band 25, 20MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	1850.865	1914.135		
50				-4.88	0.0026
40				-4.56	0.0024
30				-4.75	0.0025
10				-7.15	0.0038
0				-5.89	0.0031
-10				-5.62	0.0030
-20				-6.02	0.0032
-30				-5.92	0.0031

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.865	1914.135	-6.94	0.0037
4.45				-5.72	0.0030

LTE Band 26(814MHz~824MHz), 10MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	814.394	823.606		
50				12.42	0.0152
40				4.15	0.0051
30				3.02	0.0037
10				2.79	0.0034
0				3.40	0.0042
-10				2.66	0.0032
-20				2.33	0.0028
-30				1.90	0.0023

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	814.394	823.606	0.00	0.0000
4.45				0.00	0.0000

LTE Band 26(824MHz~849MHz), 15MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	824.601	848.447		
50				0.49	0.0006
40				0.89	0.0011
30				4.15	0.0050
10				0.92	0.0011
0				-12.37	0.0148
-10				-5.48	0.0066
-20				0.59	0.0007
-30				-6.22	0.0074

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.601	848.447	-6.69	0.0080
4.45				-6.25	0.0075

LTE Band 30, 10MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	2305.449	2314.583		
50				-1.86	0.0008
40				-3.35	0.0015
30				-0.89	0.0004
10				-0.59	0.0003
0				-1.14	0.0005
-10				-2.82	0.0012
-20				-0.01	0.0000
-30				-2.57	0.0011

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2305.449	2314.583	-0.69	0.0003
4.45				-0.72	0.0003

LTE Band 40(2305MHz~2315MHz), 10MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	2305.128	2314.872		
50				-0.11	0.0000
40				-0.07	0.0000
30				-0.14	0.0001
10				-0.54	0.0002
0				-0.63	0.0003
-10				-1.12	0.0005
-20				-0.36	0.0002
-30				0.34	0.0001

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2305.128	2314.872	1.65	0.0007
4.45				-0.10	0.0000

LTE Band 41, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	2496.353	2689.583		
50				1.16	0.0004
40				0.11	0.0000
30				-1.66	0.0006
10				0.20	0.0001
0				0.47	0.0002
-10				2.15	0.0008
-20				-0.20	0.0001
-30				-2.26	0.0009

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.353	2689.583	1.23	0.0005
4.45				-0.99	0.0004

LTE Band 48, 20MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	3550.833	3699.199		
50				-1.29	0.0004
40				-2.37	0.0007
30				-1.33	0.0004
10				0.47	0.0001
0				0.56	0.0002
-10				-1.65	0.0005
-20				-1.00	0.0003
-30				0.50	0.0001

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	3550.833	3699.199	0.03	0.0000
4.45				1.39	0.0004

LTE Band 66, 20MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	1710.897	1779.167		
50				-0.47	0.0003
40				0.92	0.0005
30				0.23	0.0001
10				-0.72	0.0004
0				0.79	0.0005
-10				-0.07	0.0000
-20				-0.97	0.0006
-30				-32.32	0.0185

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.897	1779.167	0.11	0.0001
4.45				0.53	0.0003

LTE Band 71, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	663.994	697.006		
50				-0.50	0.0007
40				6.41	0.0094
30				-0.89	0.0013
10				0.49	0.0007
0				-0.34	0.0005
-10				0.51	0.0007
-20				-0.09	0.0001
-30				-0.49	0.0007

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	663.994	697.006	5.85	0.0086
4.45				4.63	0.0068

LTE CA Band 5B, 10MHz+10MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	824.300	848.680		
50				0.19	0.0002
40				1.00	0.0012
30				0.50	0.0006
10				1.22	0.0015
0				1.83	0.0022
-10				1.35	0.0016
-20				2.15	0.0026
-30				2.28	0.0027

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.300	848.680	1.83	0.0022
4.45				2.49	0.0030

LTE CA Band 41C, 20MHz+20MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	2496.880	2689.100		
50				0.76	0.0003
40				0.96	0.0004
30				0.04	0.0000
10				1.25	0.0005
0				1.33	0.0005
-10				0.74	0.0003
-20				2.03	0.0008
-30				0.82	0.0003

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.880	2689.100	1.96	0.0008
4.45				1.89	0.0007

LTE CA Band 66B, 10MHz+10MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	1710.300	1779.700		
50				1.03	0.0006
40				1.63	0.0009
30				1.46	0.0008
10				1.46	0.0008
0				1.90	0.0011
-10				1.62	0.0009
-20				1.73	0.0010
-30				1.56	0.0009

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.300	1779.700	2.26	0.0013
4.45				2.17	0.0012

LTE CA Band 66C, 20MHz+20MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.9	1710.400	1779.500		
50				0.74	0.0004
40				0.80	0.0005
30				1.85	0.0011
10				1.23	0.0007
0				0.67	0.0004
-10				1.20	0.0007
-20				0.83	0.0005
-30				0.74	0.0004

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.400	1779.500	1.65	0.0009
4.45				1.49	0.0009

A.4 Occupied Bandwidth

Occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the mid frequencies frequency. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.

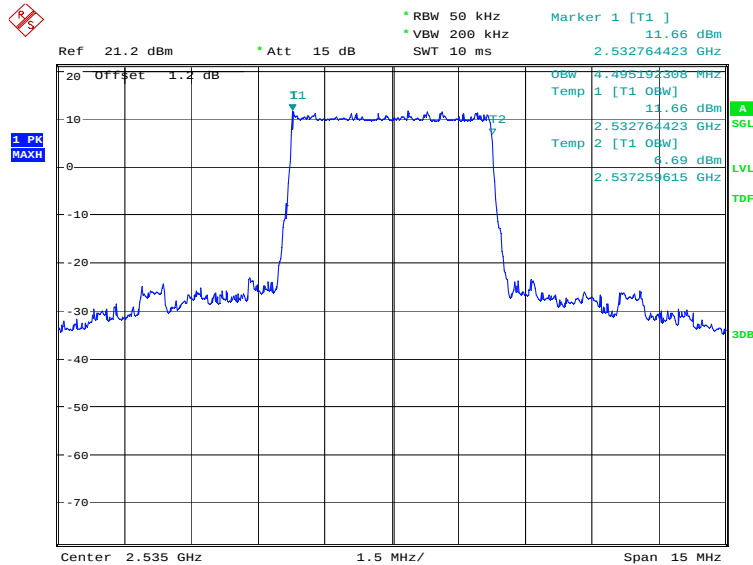
The measurement method is from ANSI C63.26:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts.
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) Set the detection mode to peak, and the trace mode to max-hold.

LTE band 7, 5MHz (99%)

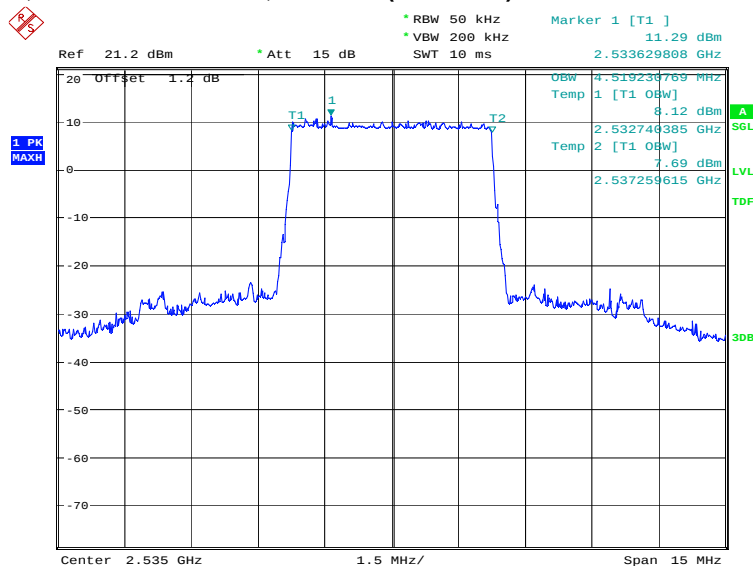
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	4495.19	4519.23

LTE band 7, 5MHz Bandwidth, QPSK (99% BW)



Date: 11.JUL.2022 14:47:50

LTE band 7, 5MHz Bandwidth, 16QAM (99% BW)

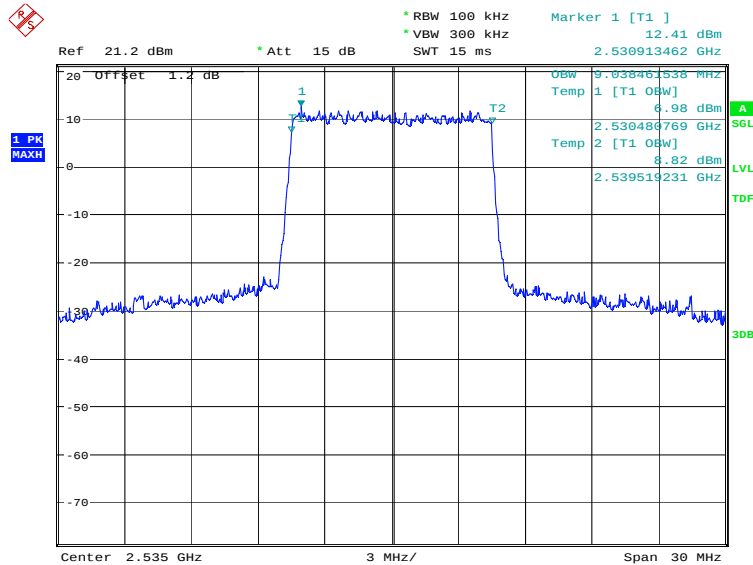


Date: 11.JUL.2022 14:48:30

LTE band 7, 10MHz (99%)

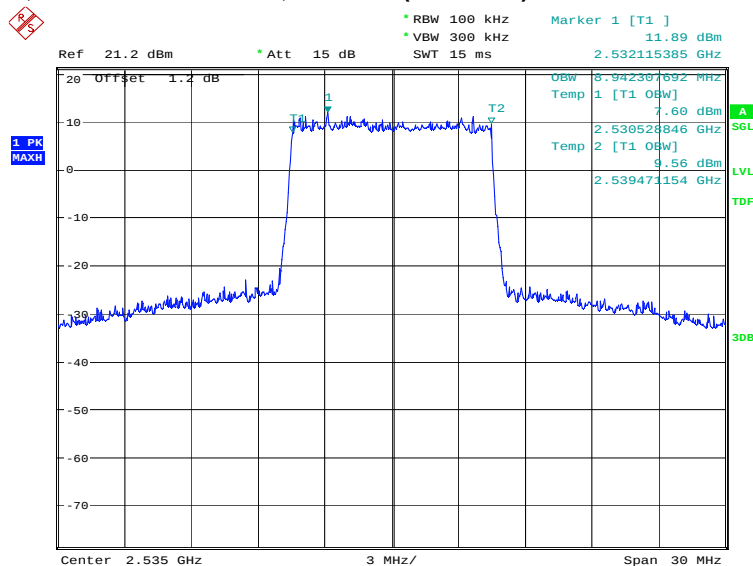
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	9038.46	8942.31

LTE band 7, 10MHz Bandwidth, QPSK (99% BW)



Date: 11.JUL.2022 14:49:13

LTE band 7, 10MHz Bandwidth, 16QAM (99% BW)

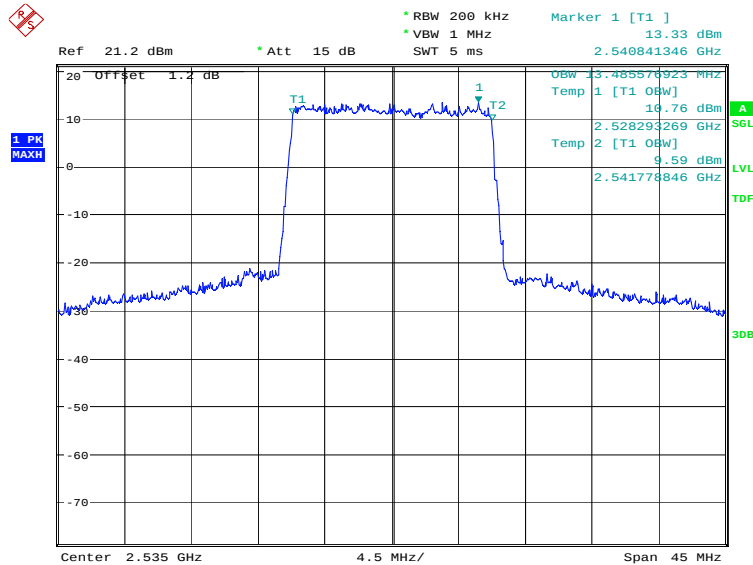


Date: 11.JUL.2022 14:49:53

LTE band 7, 15MHz (99%)

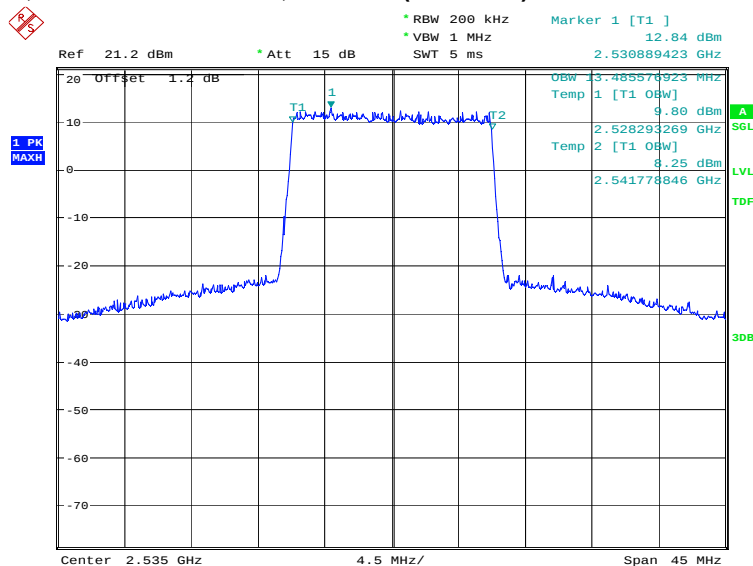
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	13485.58	13485.58

LTE band 7, 15MHz Bandwidth, QPSK (99% BW)



Date: 11.JUL.2022 14:50:37

LTE band 7, 15MHz Bandwidth, 16QAM (99% BW)

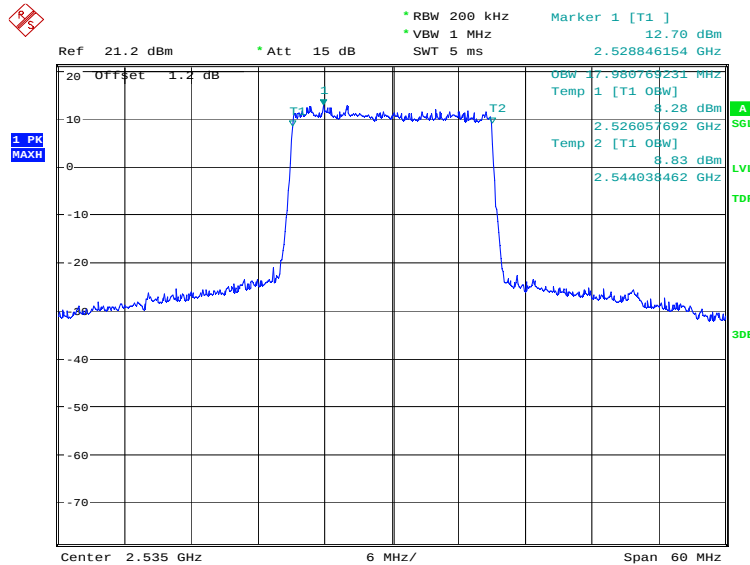


Date: 11.JUL.2022 14:51:16

LTE band 7, 20MHz (99%)

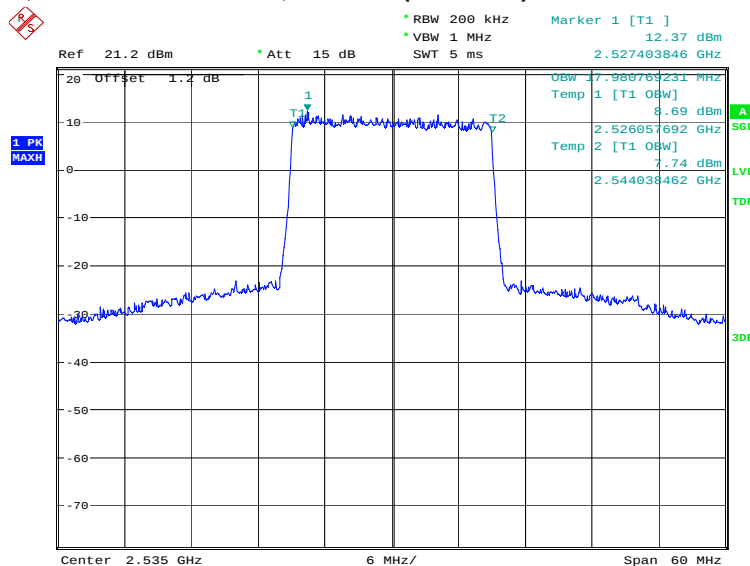
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	17980.77	17980.77

LTE band 7, 20MHz Bandwidth, QPSK (99% BW)



Date: 11.JUL.2022 14:51:59

LTE band 7, 20MHz Bandwidth, 16QAM (99% BW)

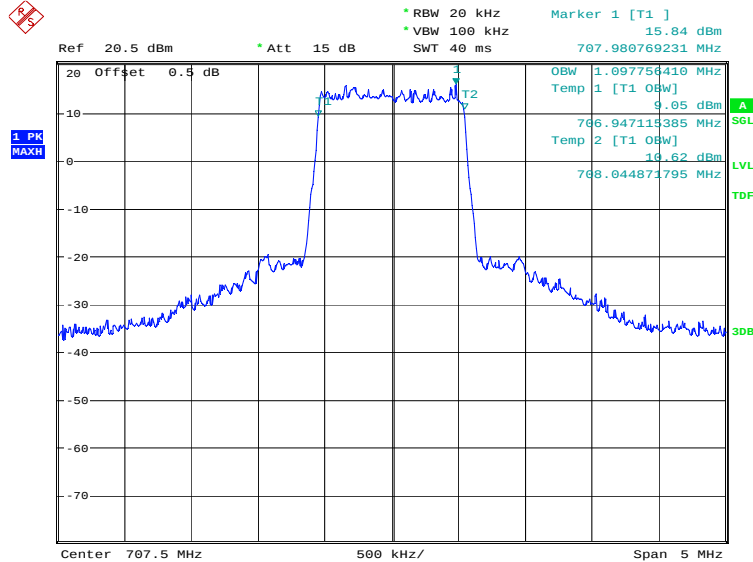


Date: 11.JUL.2022 14:52:39

LTE band 12, 1.4MHz (99%)

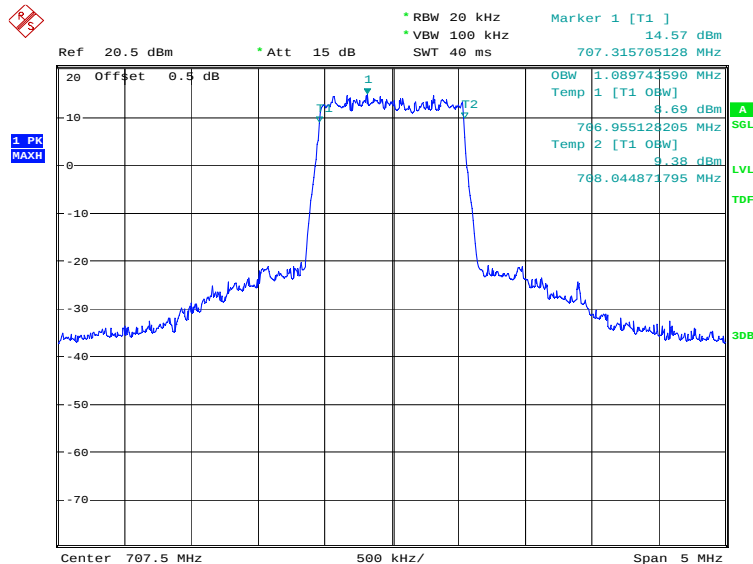
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	1097.76	1089.74

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



Date: 6. JUN.2022 18:36:13

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

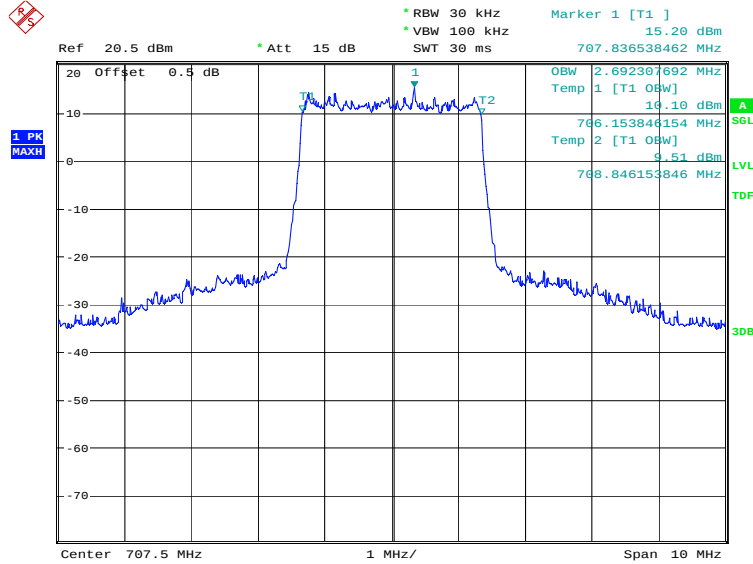


Date: 6. JUN.2022 18:36:53

LTE band 12, 3MHz (99%)

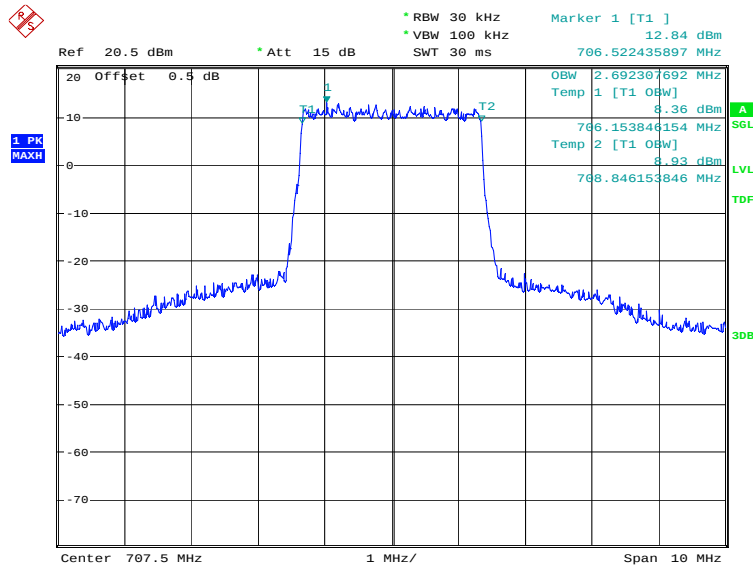
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 6.JUN.2022 18:37:36

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

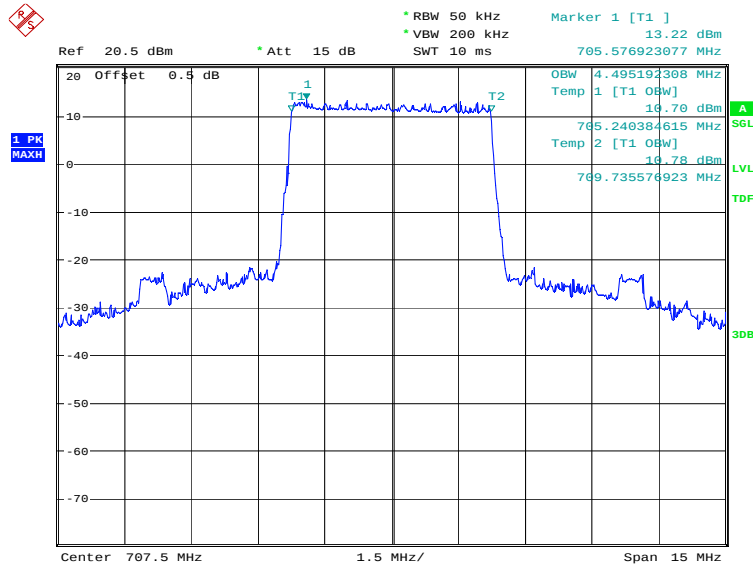


Date: 6.JUN.2022 18:38:15

LTE band 12, 5MHz (99%)

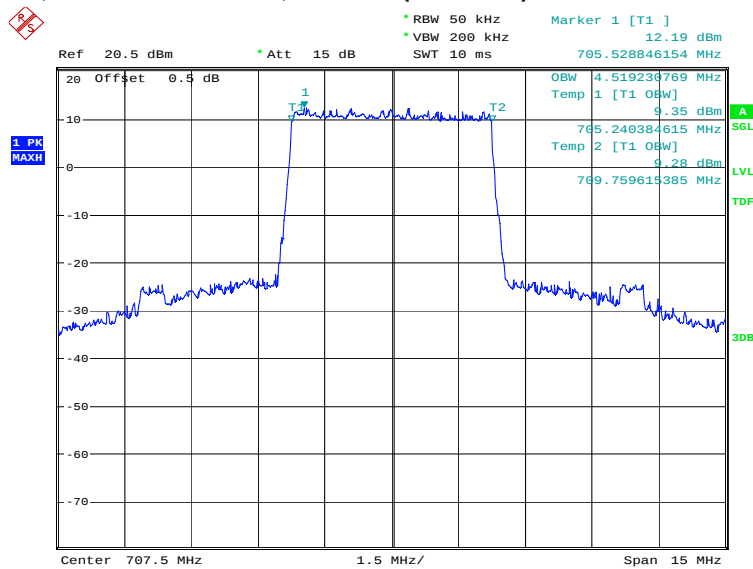
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	4495.19	4519.23

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



Date: 6. JUN.2022 18:38:58

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

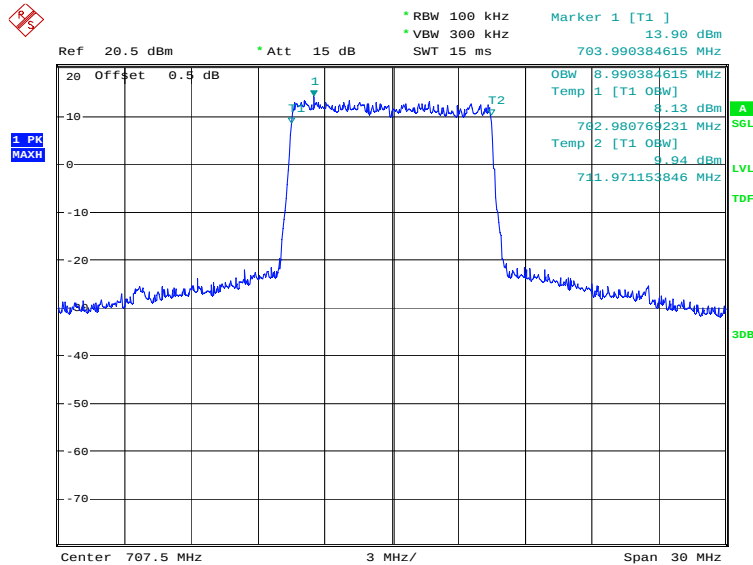


Date: 6. JUN.2022 18:39:38

LTE band 12, 10MHz (99%)

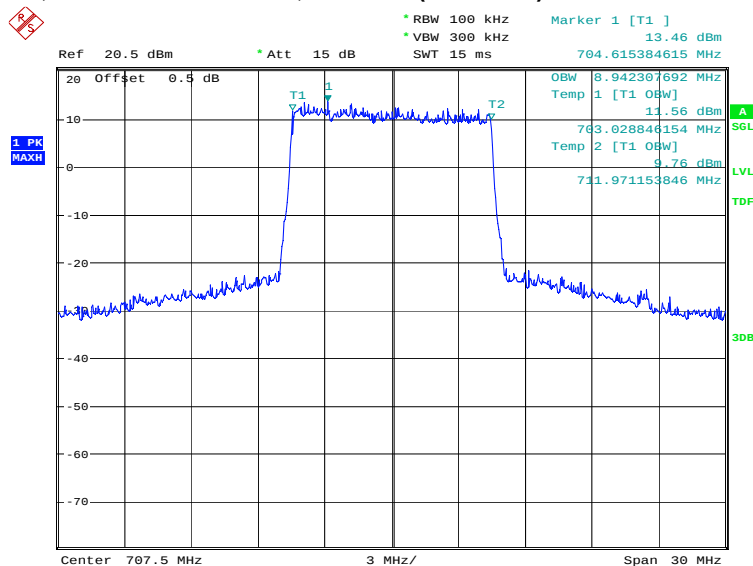
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	8990.38	8942.31

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



Date: 6. JUN.2022 18:40:22

LTE band 12, 10MHz Bandwidth, 16QAM (99% BW)

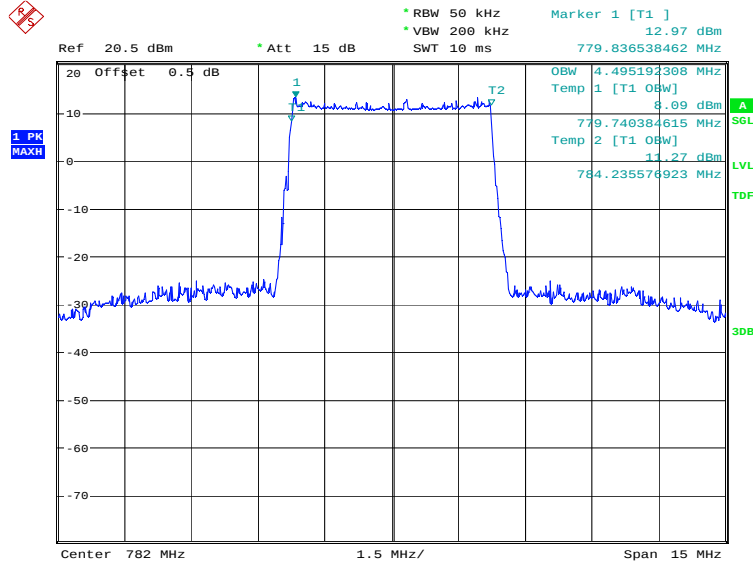


Date: 6. JUN.2022 18:41:02

LTE band 13, 5MHz (99%)

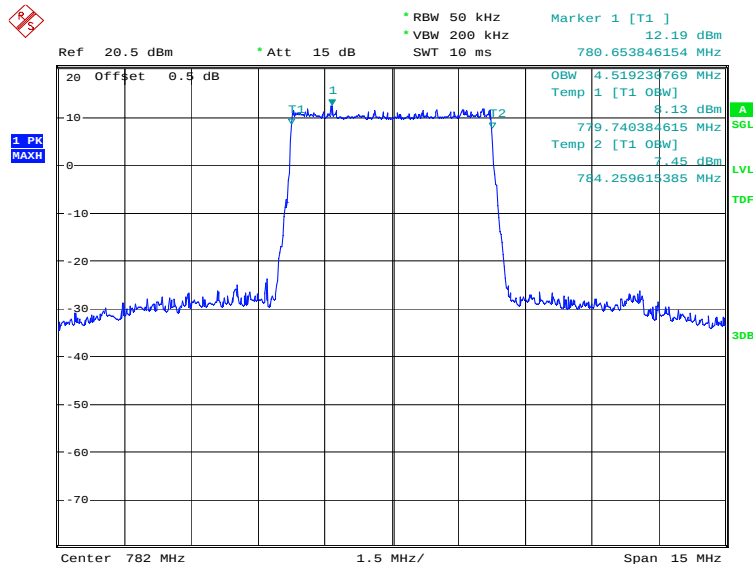
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	4495.19	4519.23

LTE band 13, 5MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 18:41:48

LTE band 13, 5MHz Bandwidth, 16QAM (99% BW)

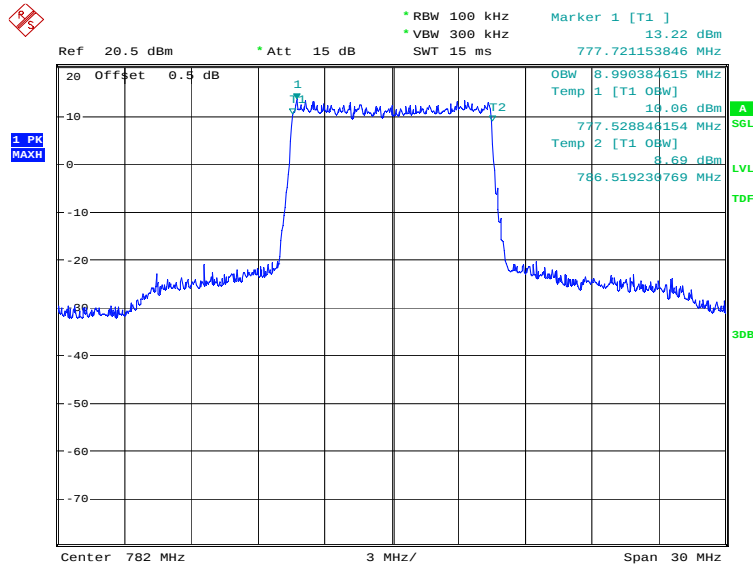


Date: 6. JUN.2022 18:42:28

LTE band 13, 10MHz (99%)

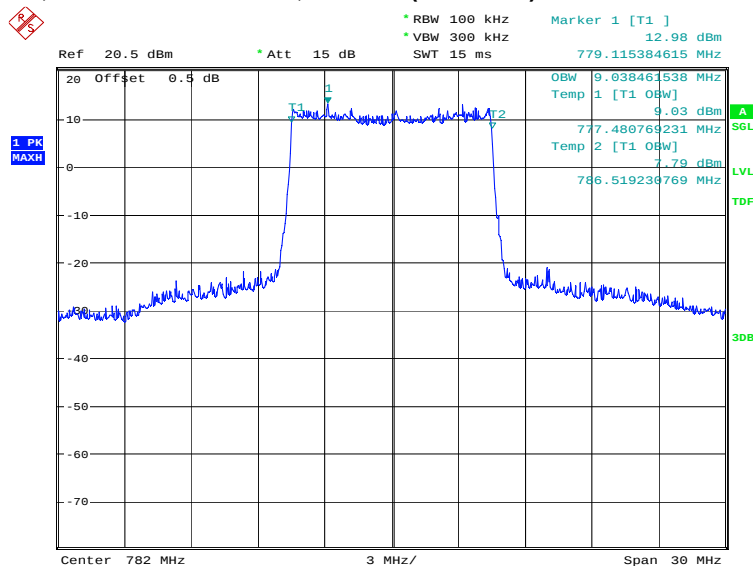
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	8990.38	9038.46

LTE band 13, 10MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 18:43:11

LTE band 13, 10MHz Bandwidth,16QAM (99% BW)

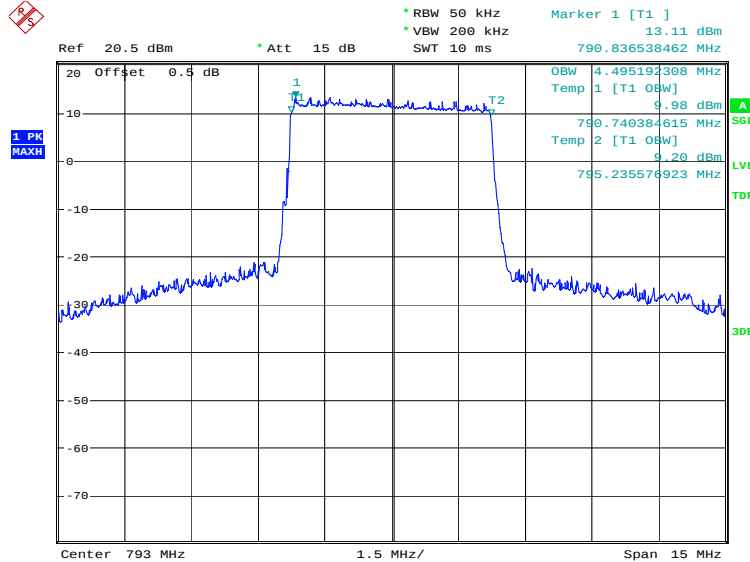


Date: 6. JUN.2022 18:43:51

LTE band 14, 5MHz (99%)

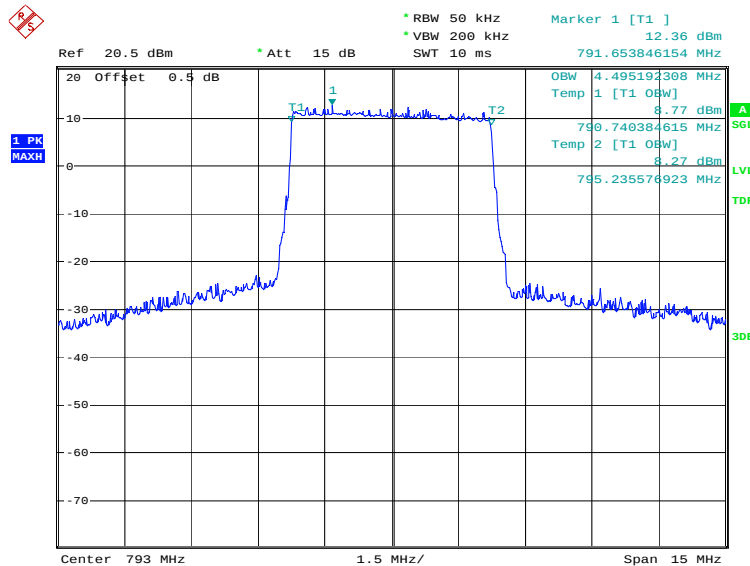
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
793.0	QPSK	16QAM
	4495.19	4495.19

LTE band 14, 5MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 18:44:38

LTE band 14, 5MHz Bandwidth, 16QAM (99% BW)

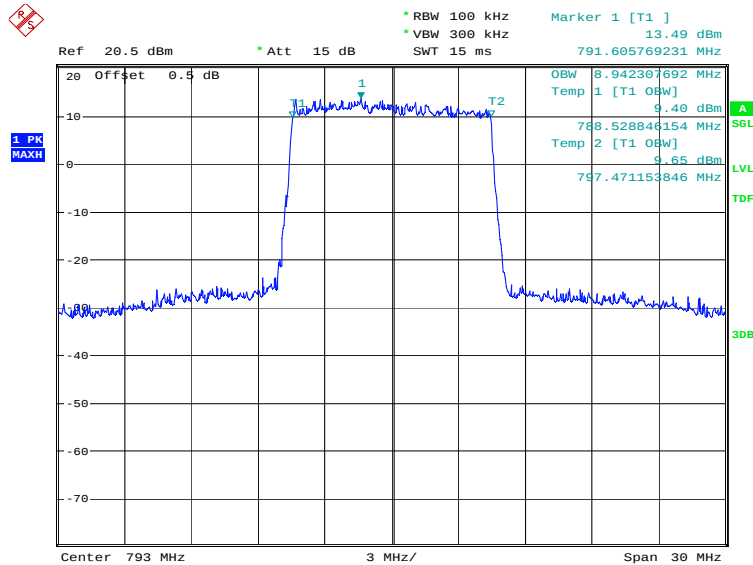


Date: 6. JUN.2022 18:45:17

LTE band 14, 10MHz (99%)

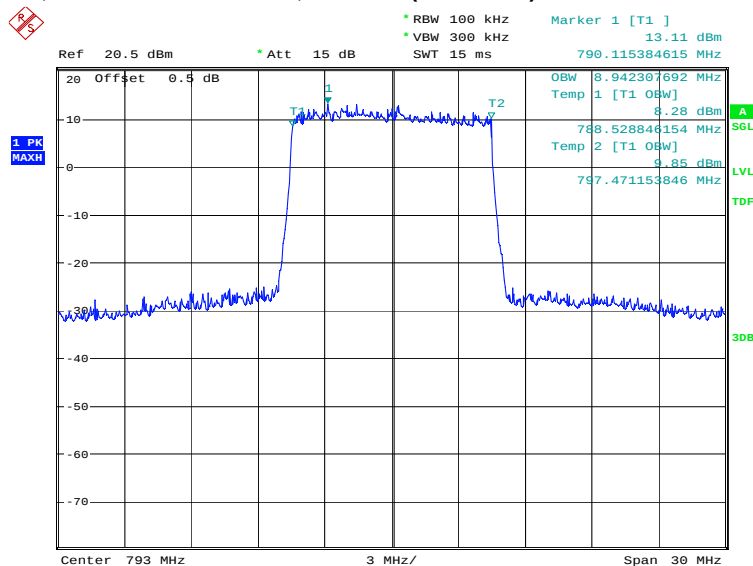
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
793.0	QPSK	16QAM
	8942.31	8942.31

LTE band 14, 10MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 18:46:01

LTE band 14, 10MHz Bandwidth,16QAM (99% BW)

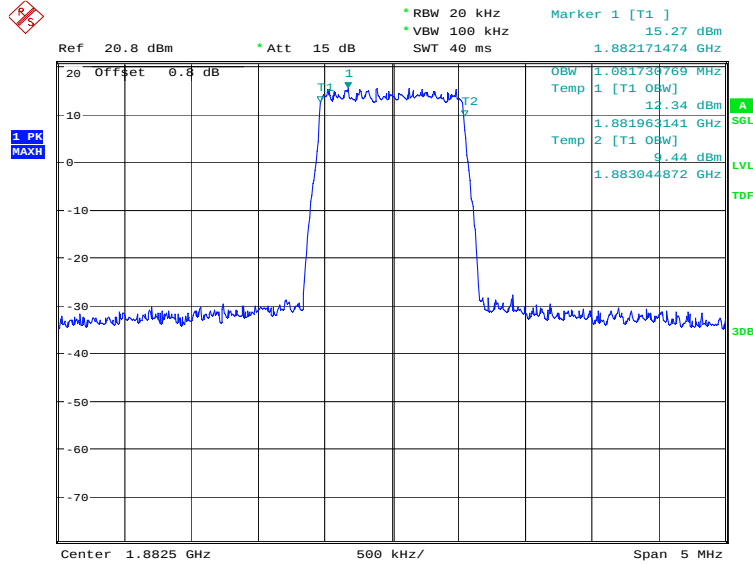


Date: 6. JUN.2022 18:46:40

LTE band 25, 1.4MHz (99%)

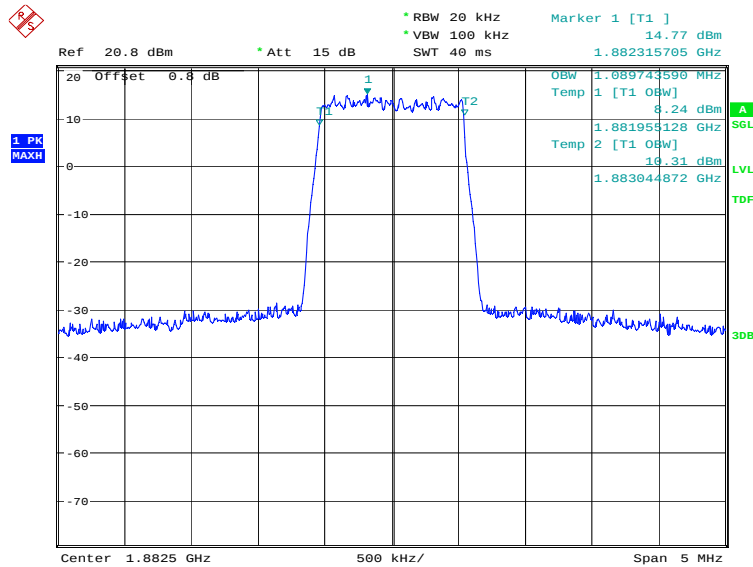
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	1081.73	1089.74

LTE band 25, 1.4MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 18:47:27

LTE band 25, 1.4MHz Bandwidth, 16QAM (99% BW)

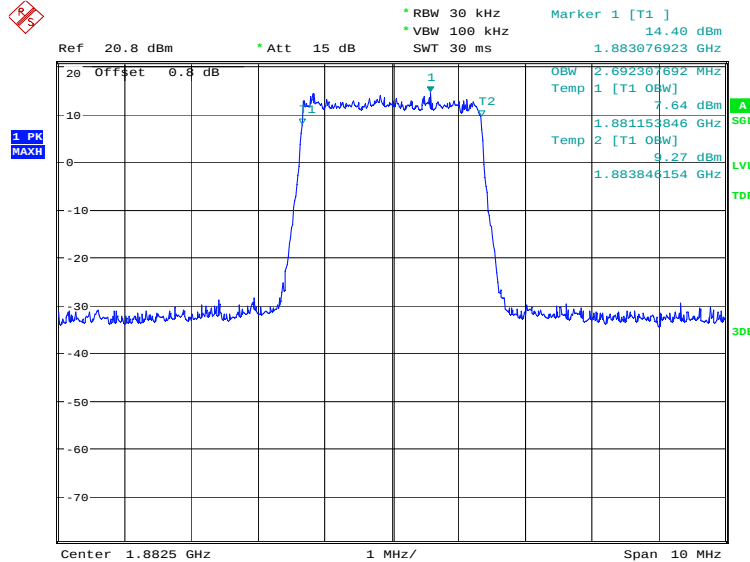


Date: 6. JUN.2022 18:48:07

LTE band 25, 3MHz (99%)

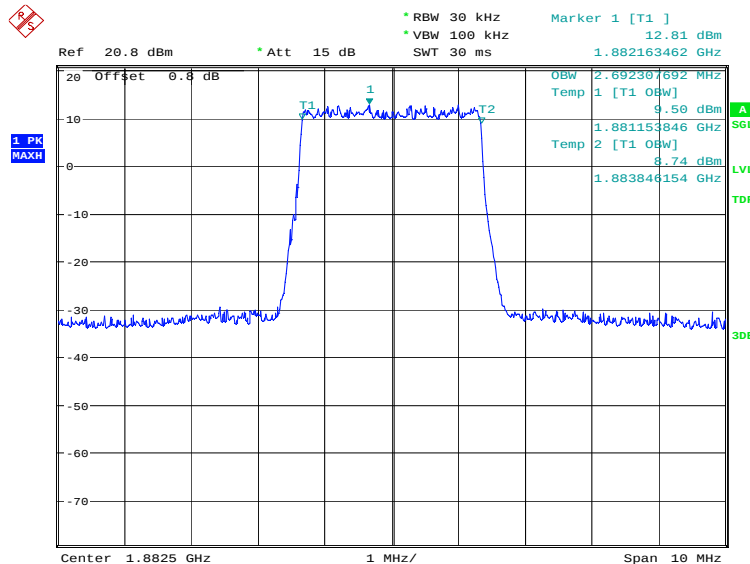
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	2692.31	2692.31

LTE band 25, 3MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 18:48:50

LTE band 25, 3MHz Bandwidth, 16QAM (99% BW)

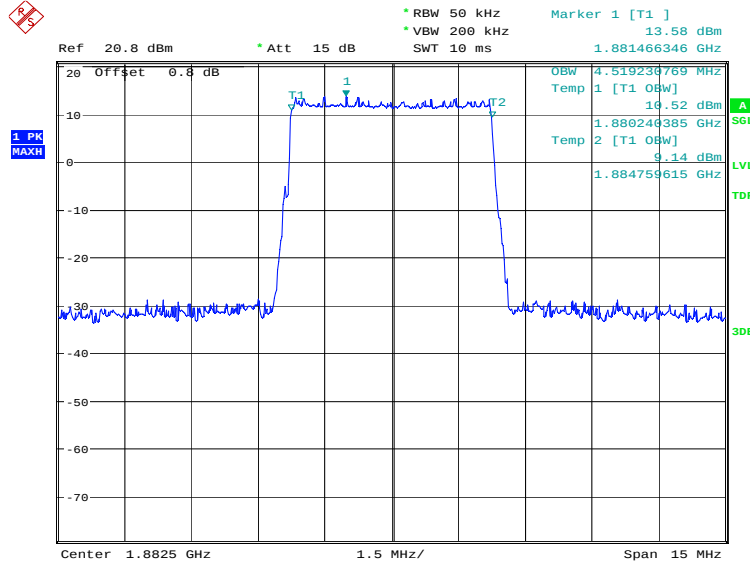


Date: 6. JUN.2022 18:49:30

LTE band 25, 5MHz (99%)

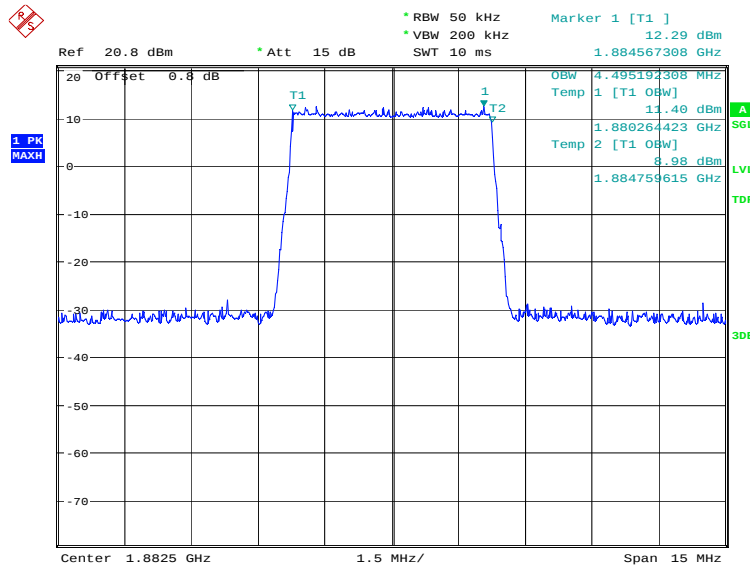
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	4519.23	4495.19

LTE band 25, 5MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 18:50:13

LTE band 25, 5MHz Bandwidth, 16QAM (99% BW)

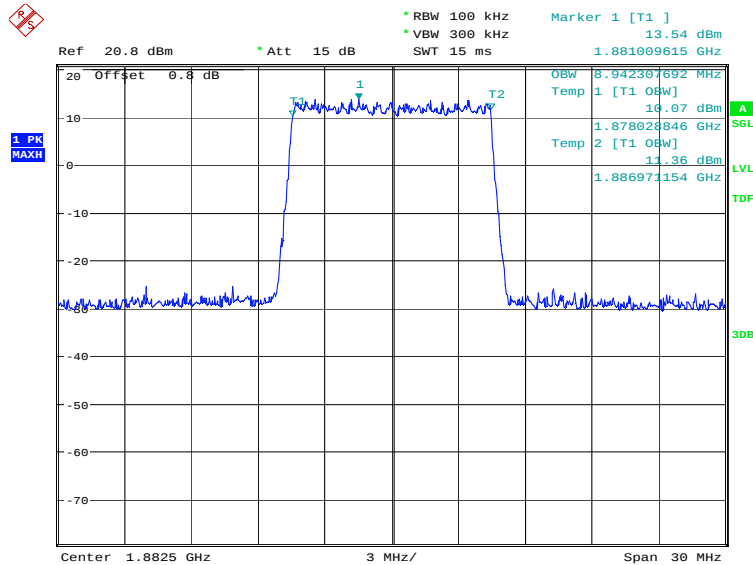


Date: 6. JUN.2022 18:50:52

LTE band 25, 10MHz (99%)

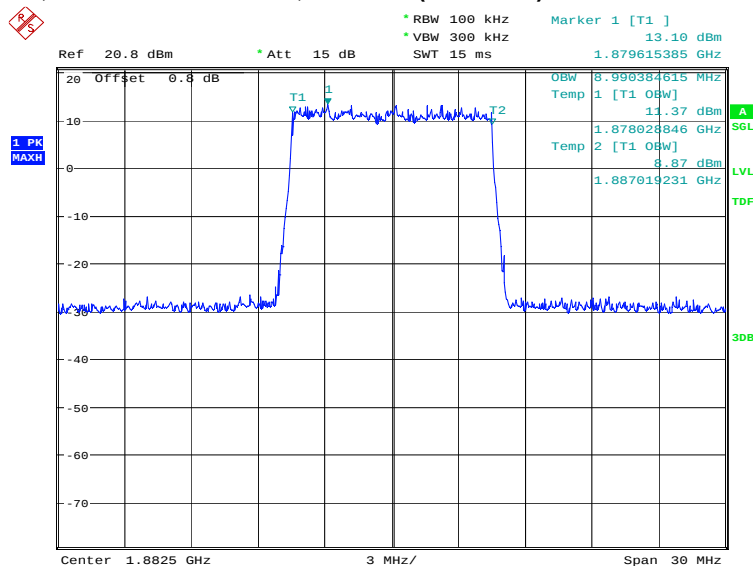
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	8942.31	8990.38

LTE band 25, 10MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 18:51:36

LTE band 25, 10MHz Bandwidth, 16QAM (99% BW)

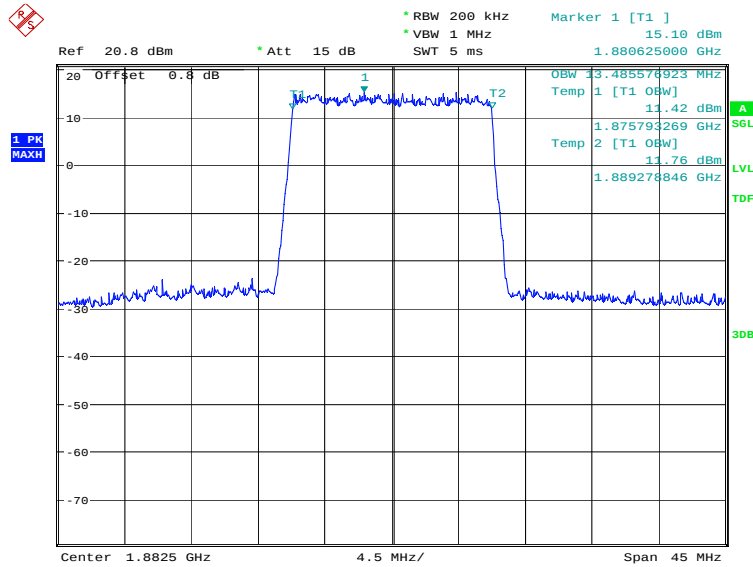


Date: 6. JUN.2022 18:52:15

LTE band 25, 15MHz (99%)

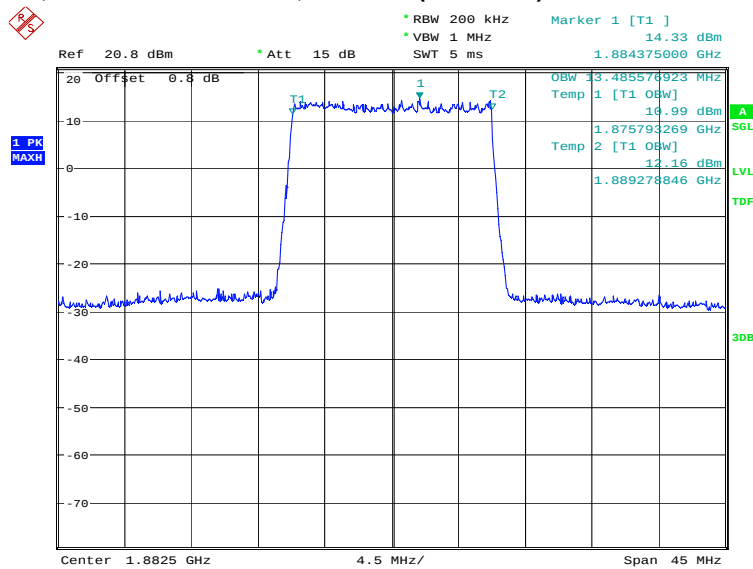
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	13485.58	13485.58

LTE band 25, 15MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 18:52:59

LTE band 25, 15MHz Bandwidth, 16QAM (99% BW)

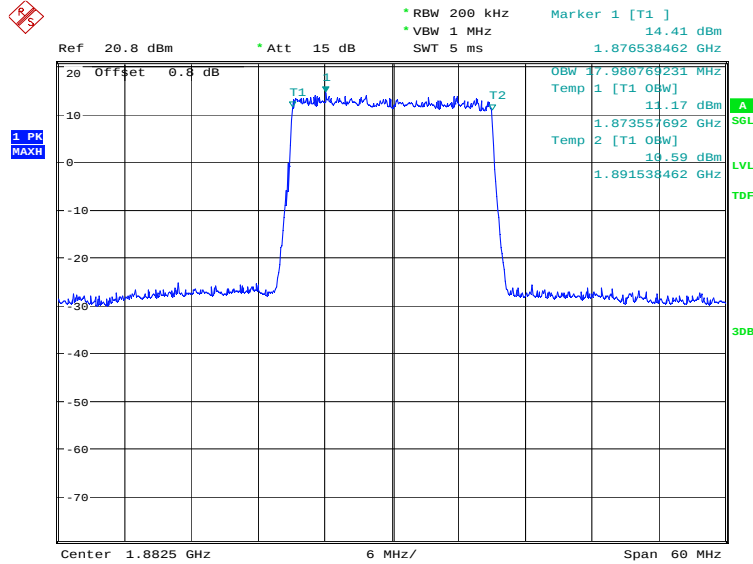


Date: 6. JUN.2022 18:53:39

LTE band 25, 20MHz (99%)

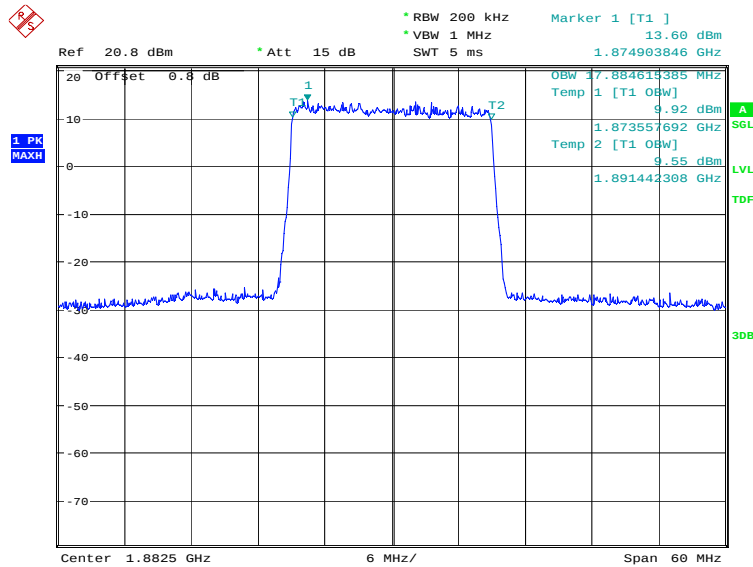
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	17980.77	17884.62

LTE band 25, 20MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 18:54:22

LTE band 25, 20MHz Bandwidth, 16QAM (99% BW)

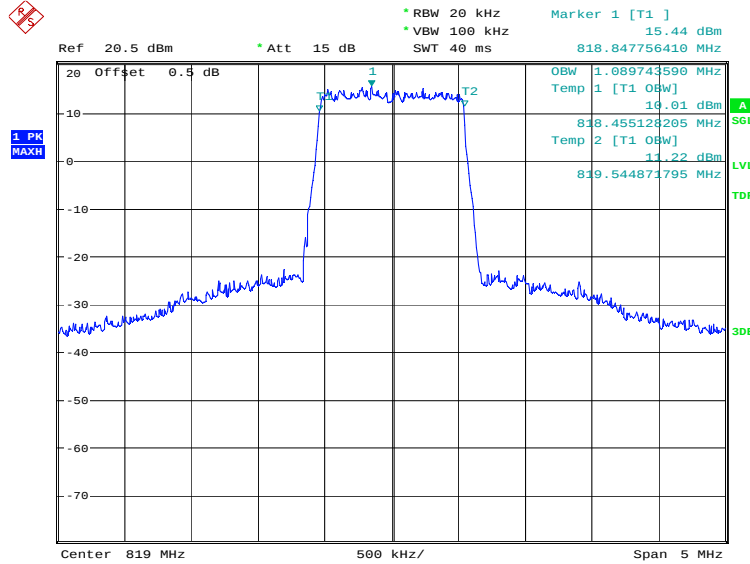


Date: 6. JUN.2022 18:55:02

LTE band 26(814MHz~824MHz), 1.4MHz (99%)

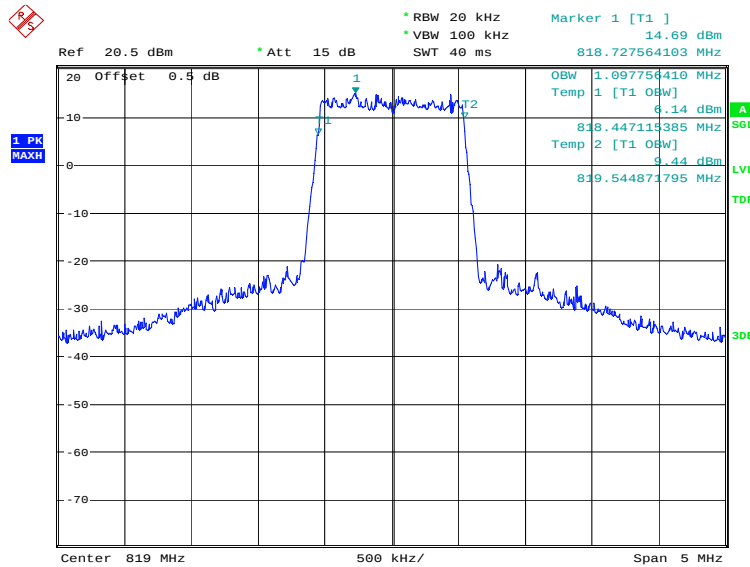
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	1089.74	1097.76

LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 19:04:18

LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, 16QAM (99% BW)

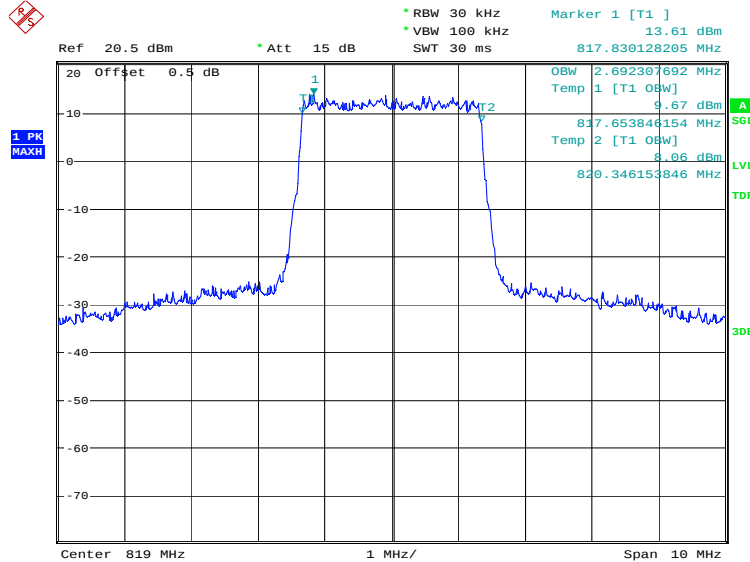


Date: 6. JUN.2022 19:04:57

LTE band 26(814MHz~824MHz), 3MHz (99%)

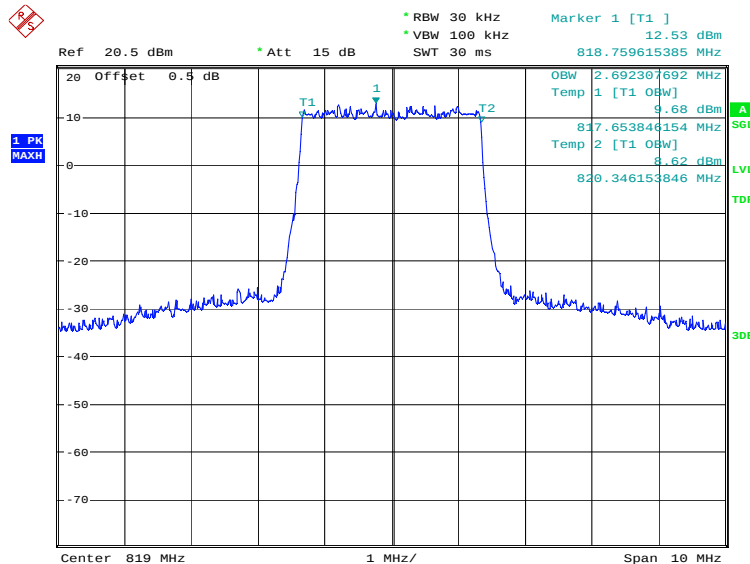
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	2692.31	2692.31

LTE band 26(814MHz~824MHz), 3MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 19:05:41

LTE band 26(814MHz~824MHz), 3MHz Bandwidth, 16QAM (99% BW)

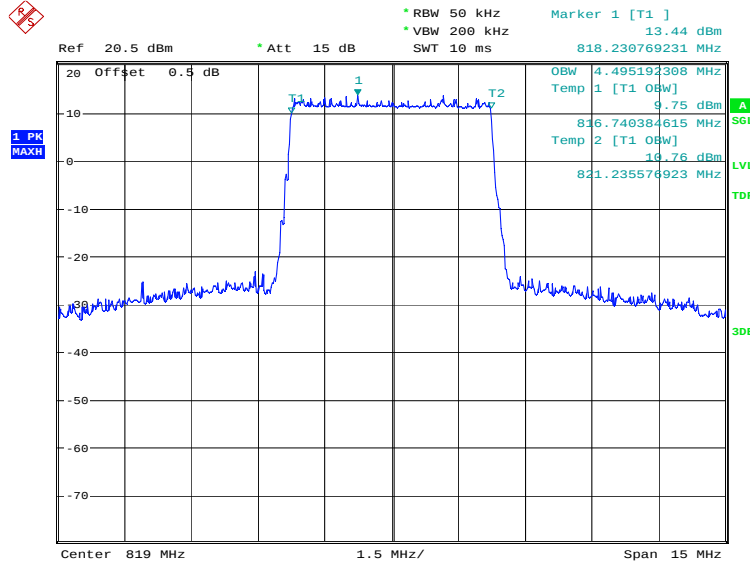


Date: 6. JUN.2022 19:06:20

LTE band 26(814MHz~824MHz), 5MHz (99%)

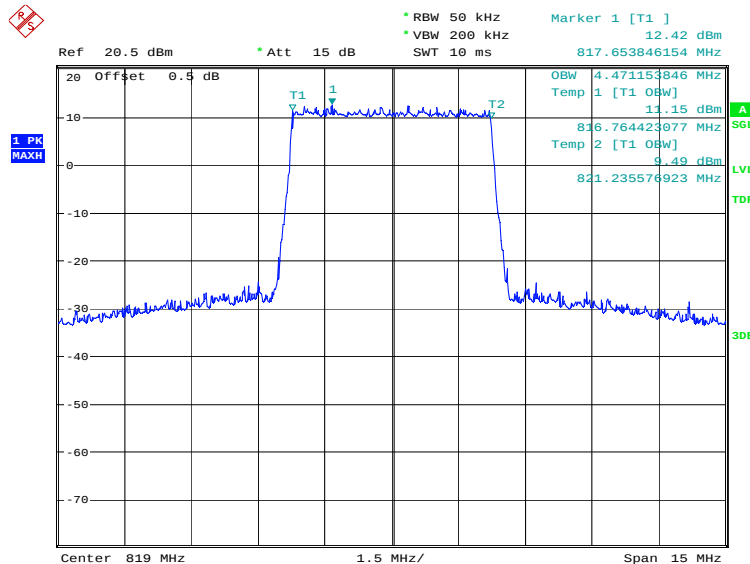
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	4495.19	4471.15

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 19:07:04

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, 16QAM (99% BW)

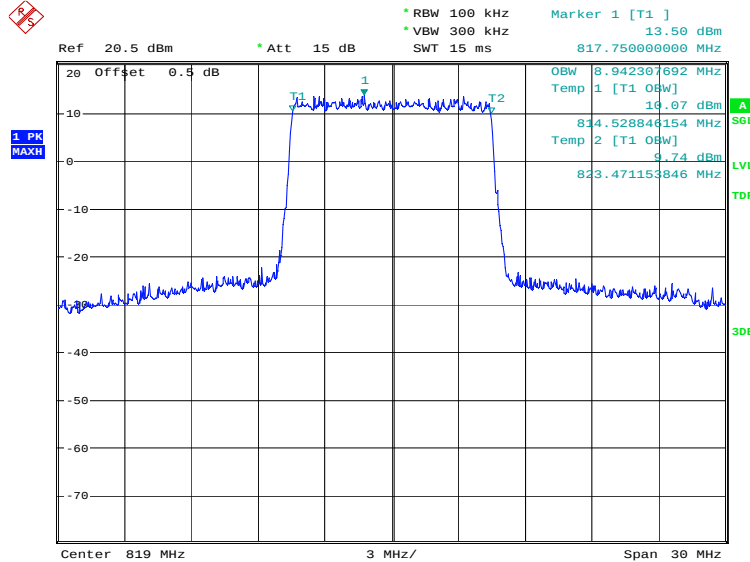


Date: 6. JUN.2022 19:07:44

LTE band 26(814MHz~824MHz), 10MHz (99%)

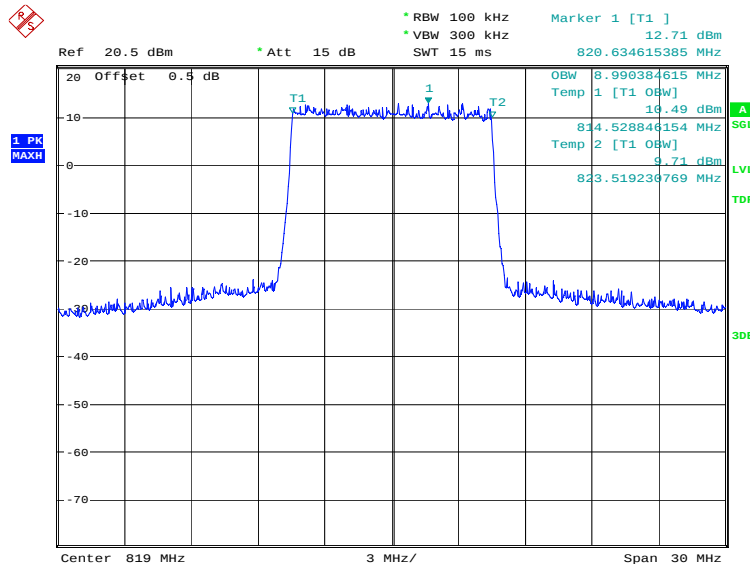
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	8942.31	8990.38

LTE band 26(814MHz~824MHz), 10MHz Bandwidth, QPSK (99% BW)



Date: 6.JUN.2022 19:08:27

LTE band 26(814MHz~824MHz), 10MHz Bandwidth, 16QAM (99% BW)

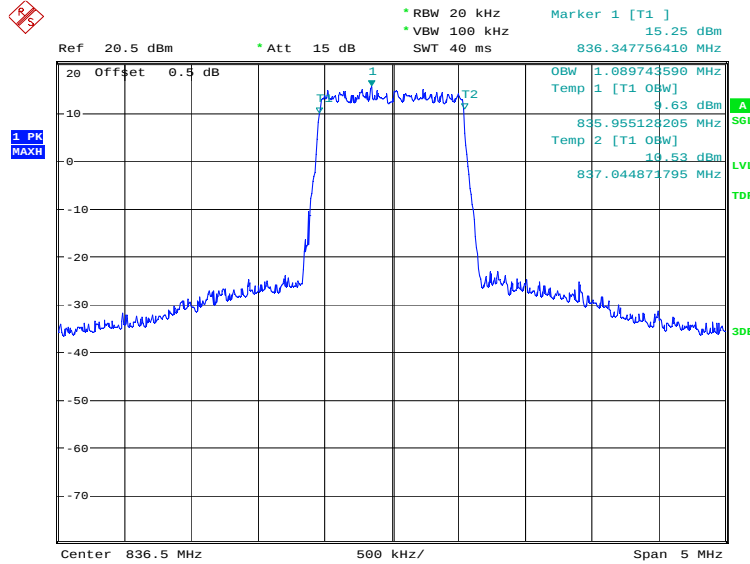


Date: 6.JUN.2022 19:09:07

LTE band 26(824MHz~849MHz), 1.4MHz (99%)

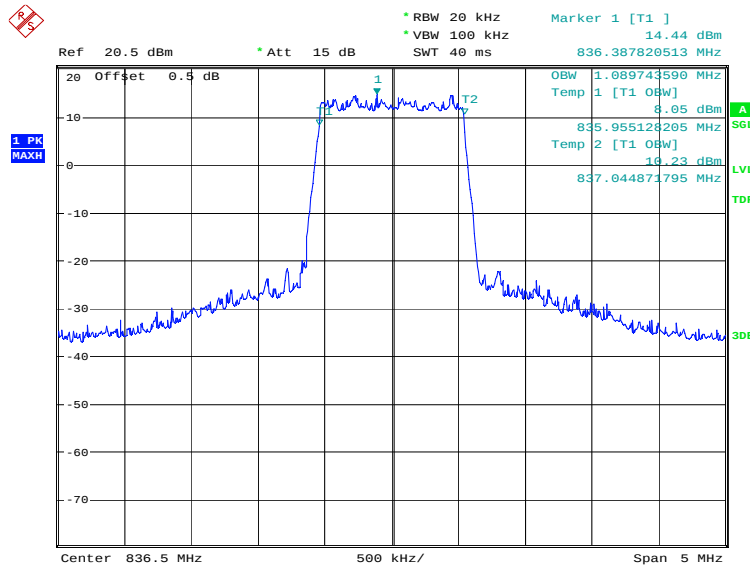
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1089.74	1089.74

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN. 2022 18:56:41

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, 16QAM (99% BW)

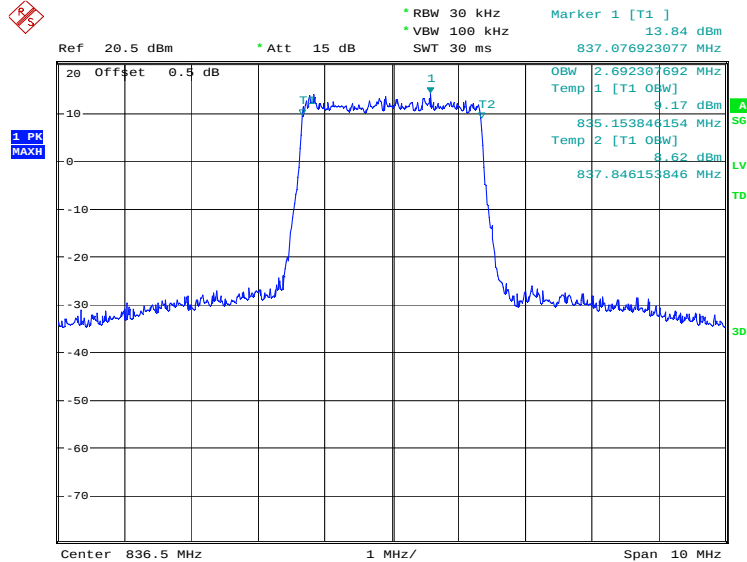


Date: 6. JUN. 2022 18:57:20

LTE band 26(824MHz~849MHz), 3MHz (99%)

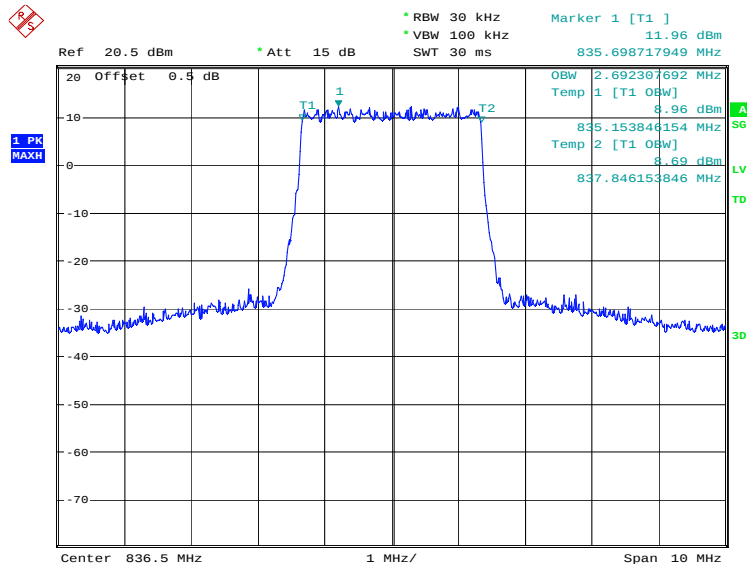
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2692.31

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, QPSK (99% BW)



Date: 6.JUN.2022 18:58:04

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, 16QAM (99% BW)

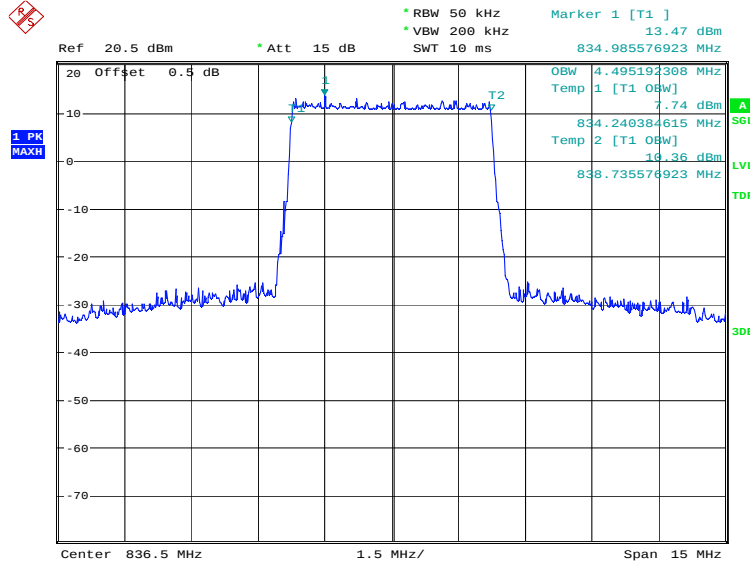


Date: 6.JUN.2022 18:58:44

LTE band 26(824MHz~849MHz), 5MHz (99%)

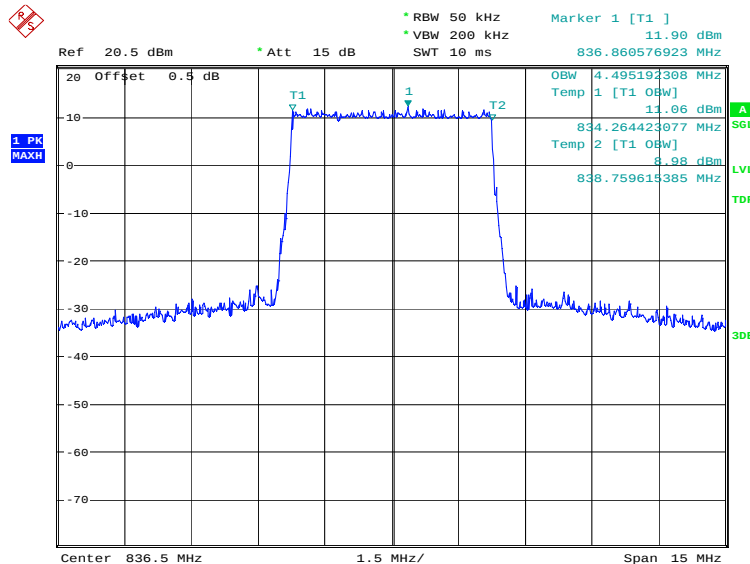
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	4495.19	4495.19

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 18:59:27

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, 16QAM (99% BW)

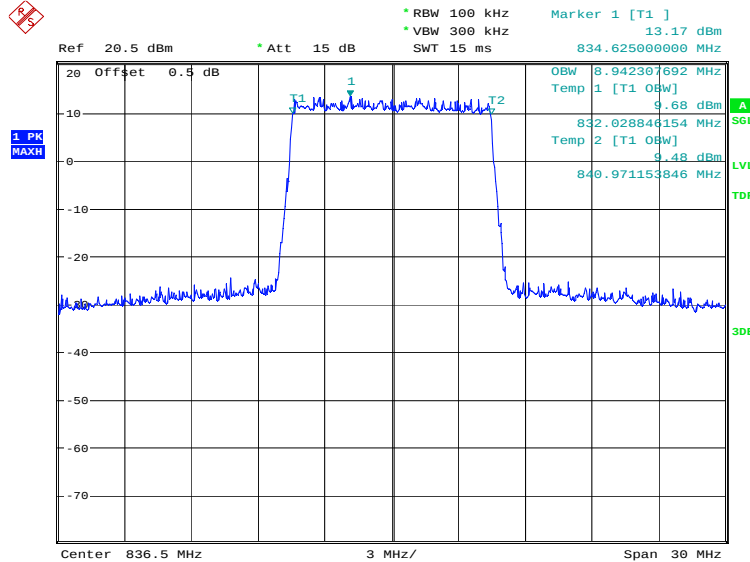


Date: 6. JUN.2022 19:00:07

LTE band 26(824MHz~849MHz), 10MHz (99%)

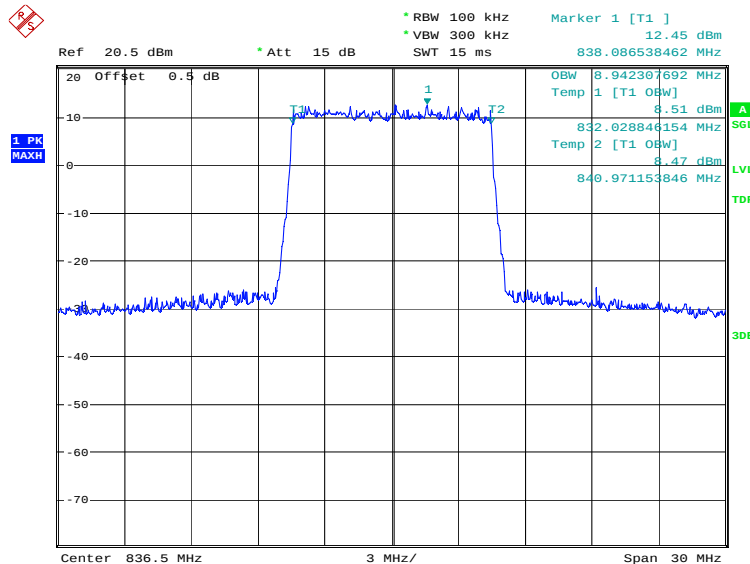
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8942.31	8942.31

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, QPSK (99% BW)



Date: 6.JUN.2022 19:00:51

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, 16QAM (99% BW)

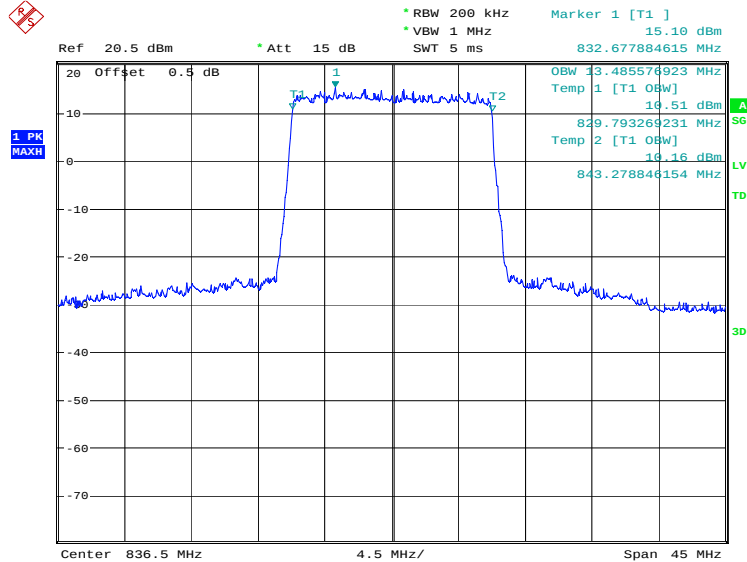


Date: 6.JUN.2022 19:01:31

LTE band 26(824MHz~849MHz), 15MHz (99%)

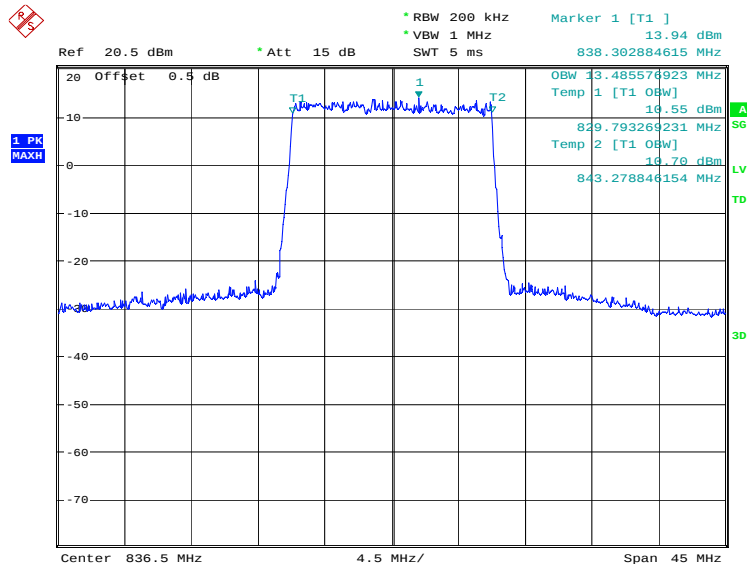
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	13485.58	13485.58

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, QPSK (99% BW)



Date: 6.JUN.2022 19:02:14

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, 16QAM (99% BW)

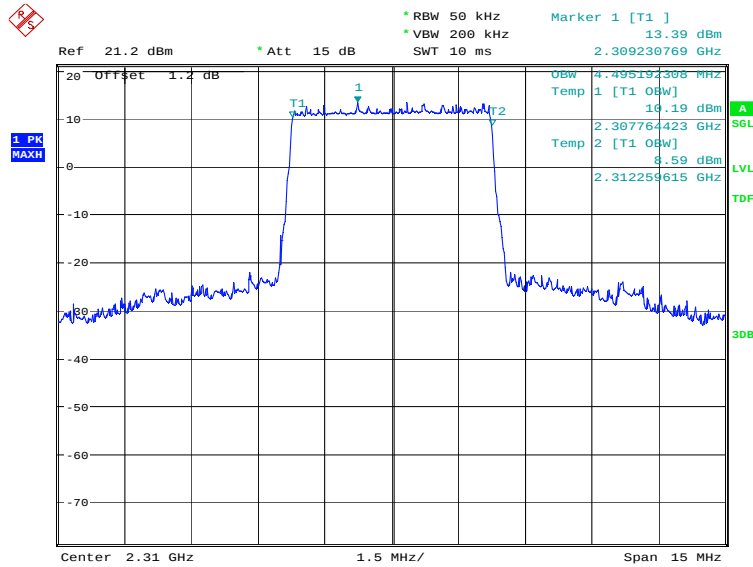


Date: 6.JUN.2022 19:02:54

LTE band 30, 5MHz (99%)

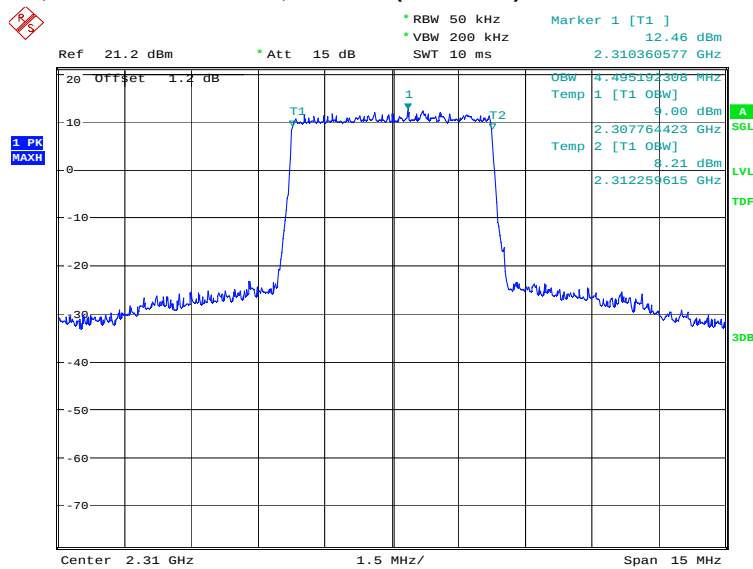
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2310.0	QPSK	16QAM
	4495.19	4495.19

LTE band 30, 5MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 19:10:04

LTE band 30, 5MHz Bandwidth,16QAM (99% BW)

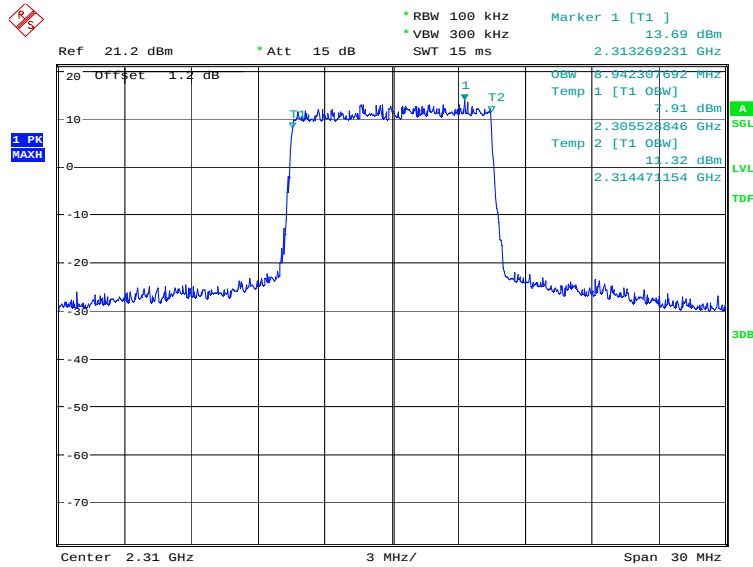


Date: 6. JUN.2022 19:10:44

LTE band 30, 10MHz (99%)

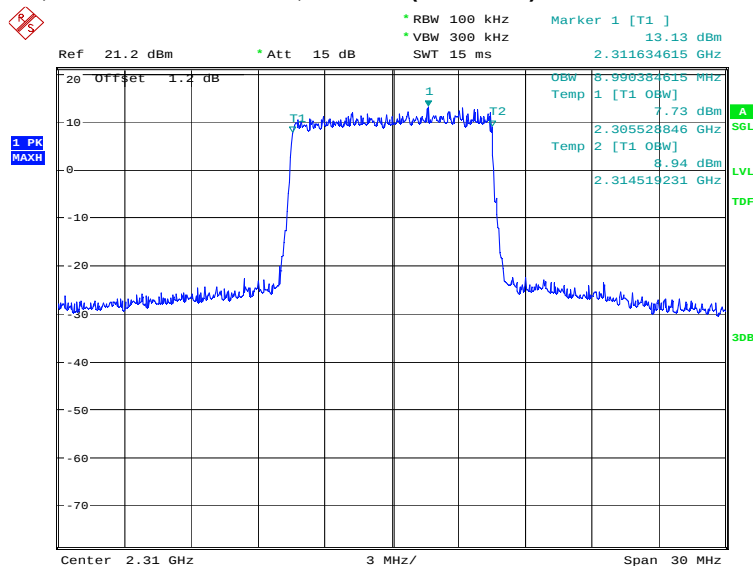
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2310.0	QPSK	16QAM
	8942.31	8990.38

LTE band 30, 10MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 19:11:27

LTE band 30, 10MHz Bandwidth,16QAM (99% BW)

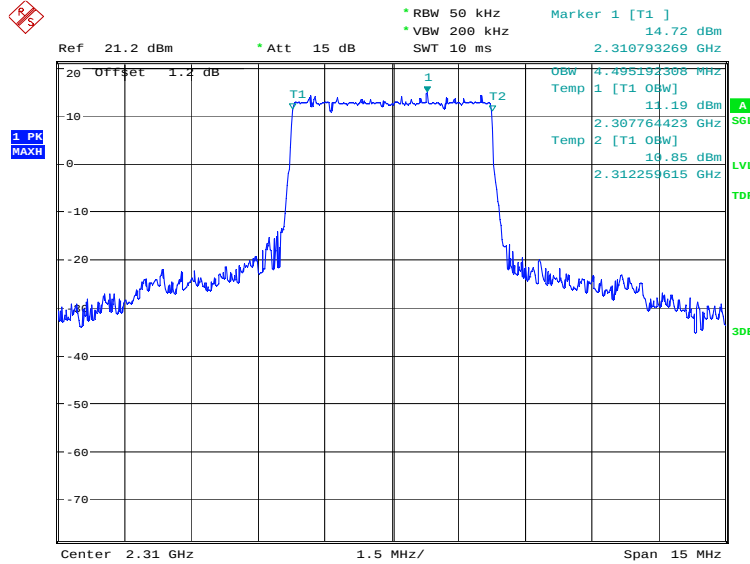


Date: 6. JUN.2022 19:12:07

LTE band 40(2305MHz~2315MHz), 5MHz (99%)

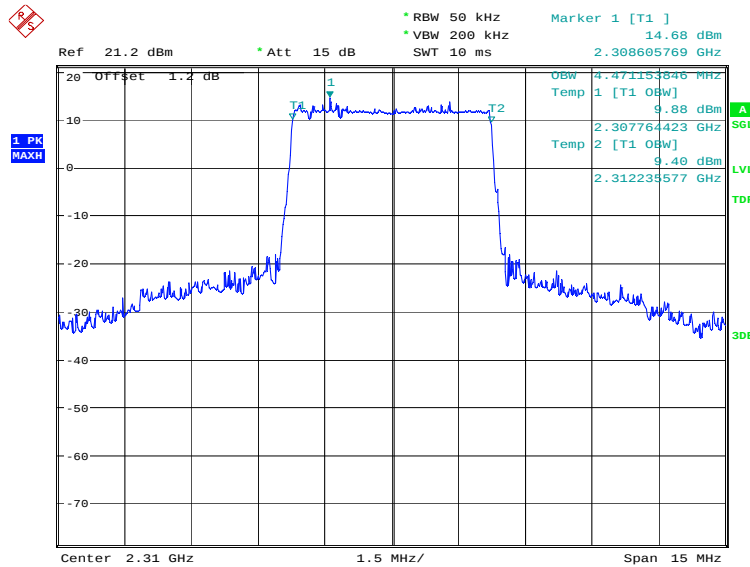
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2310.0	QPSK	16QAM
	4495.19	4471.15

LTE band 40(2305MHz~2315MHz), 5MHz Bandwidth, QPSK (99% BW)



Date: 11.JUL.2022 16:39:09

LTE band 40(2305MHz~2315MHz), 5MHz Bandwidth,16QAM (99% BW)

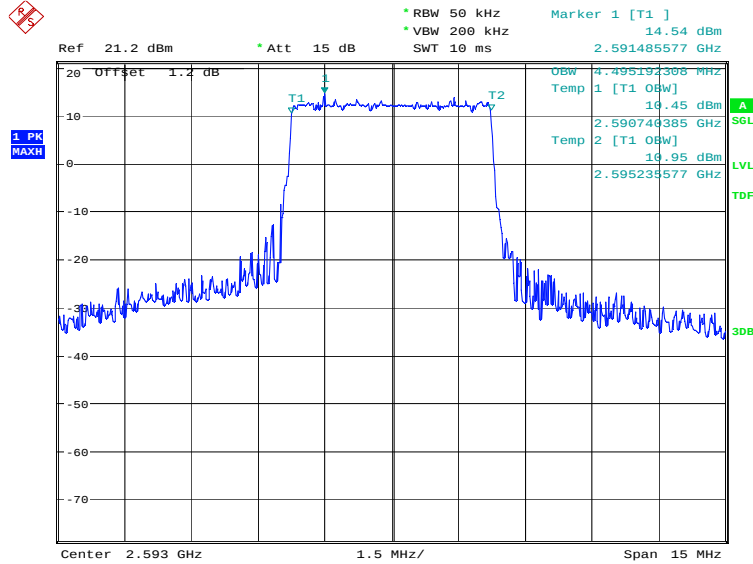


Date: 11.JUL.2022 16:39:48

LTE band 41, 5MHz (99%)

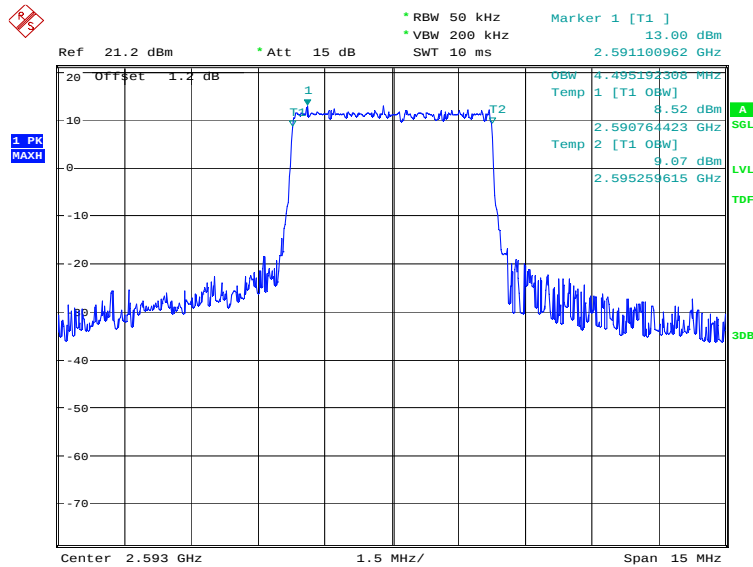
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	4495.19	4495.19

LTE band 41, 5MHz Bandwidth, QPSK (99% BW)



Date: 11.JUL.2022 14:59:43

LTE band 41, 5MHz Bandwidth, 16QAM (99% BW)

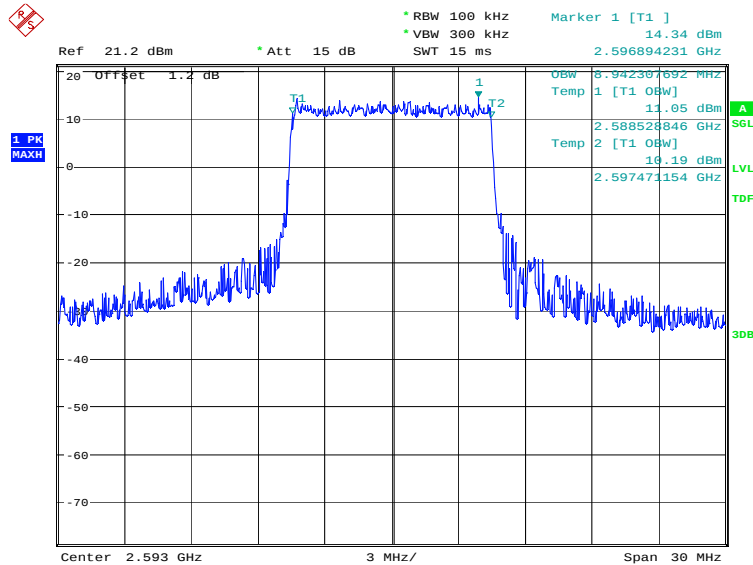


Date: 11.JUL.2022 15:00:22

LTE band 41, 10MHz (99%)

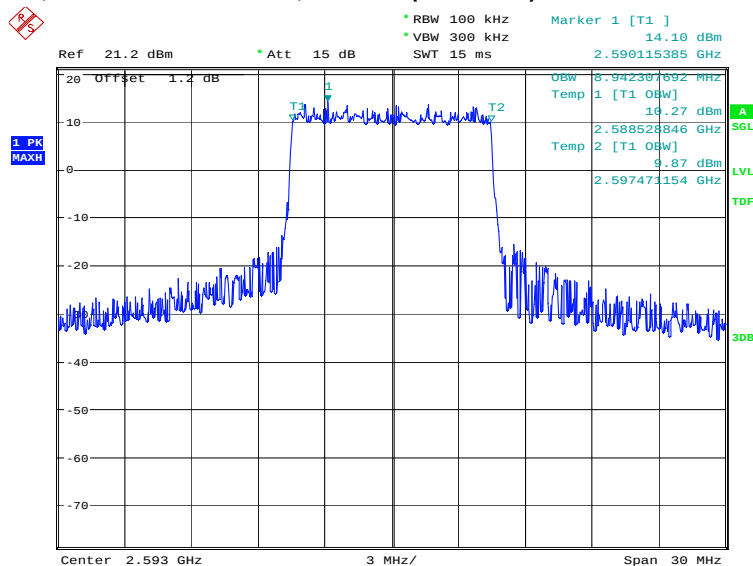
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	8942.31	8942.31

LTE band 41, 10MHz Bandwidth, QPSK (99% BW)



Date: 11.JUL.2022 15:01:06

LTE band 41, 10MHz Bandwidth,16QAM (99% BW)

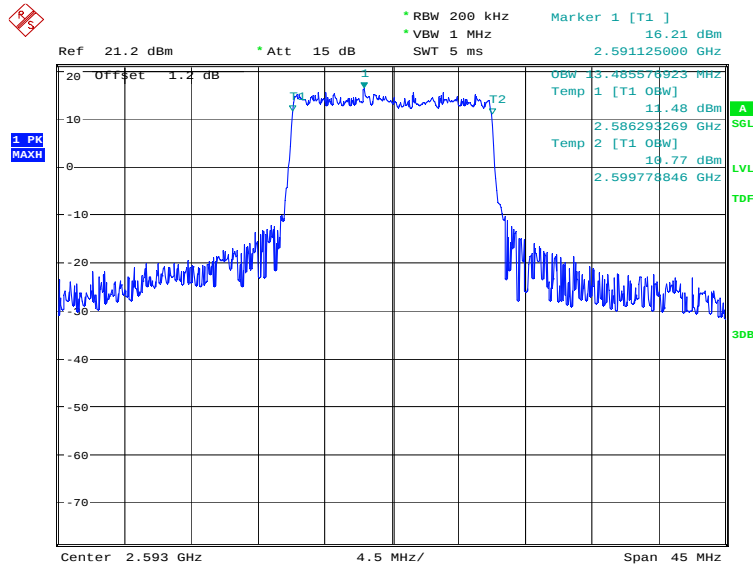


Date: 11.JUL.2022 15:01:45

LTE band 41, 15MHz (99%)

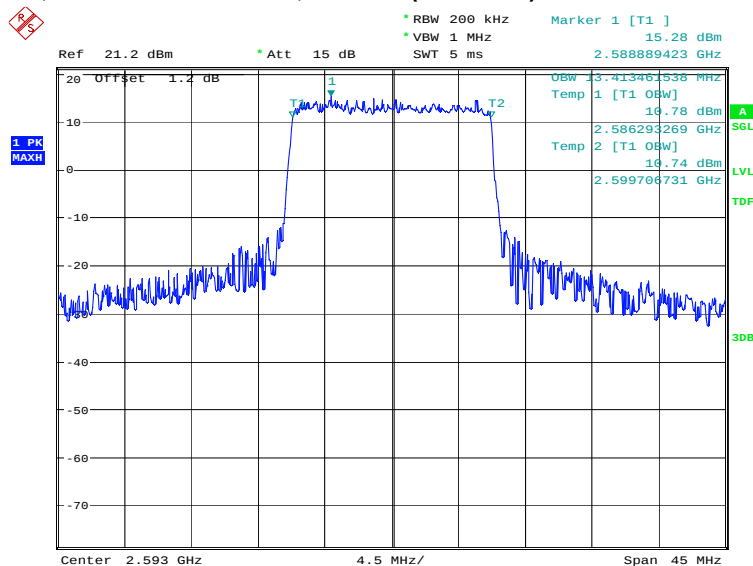
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	13485.58	13413.46

LTE band 41, 15MHz Bandwidth, QPSK (99% BW)



Date: 11.JUL.2022 15:02:29

LTE band 41, 15MHz Bandwidth,16QAM (99% BW)

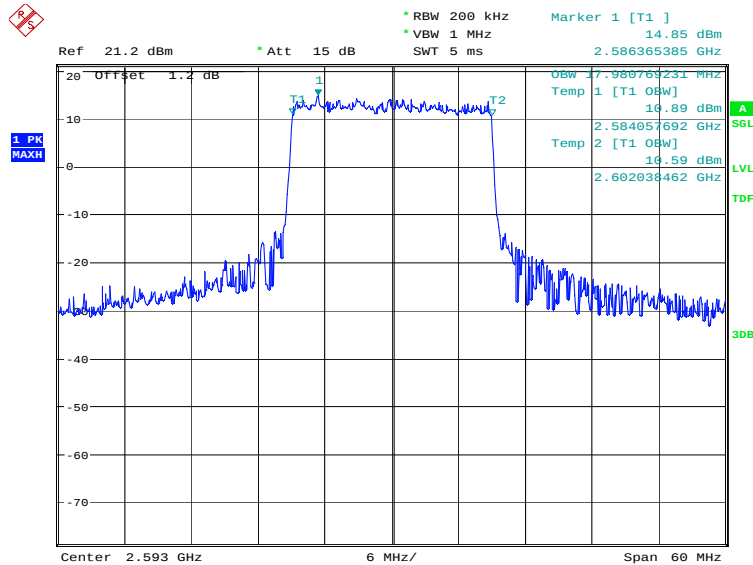


Date: 11.JUL.2022 15:03:09

LTE band 41, 20MHz (99%)

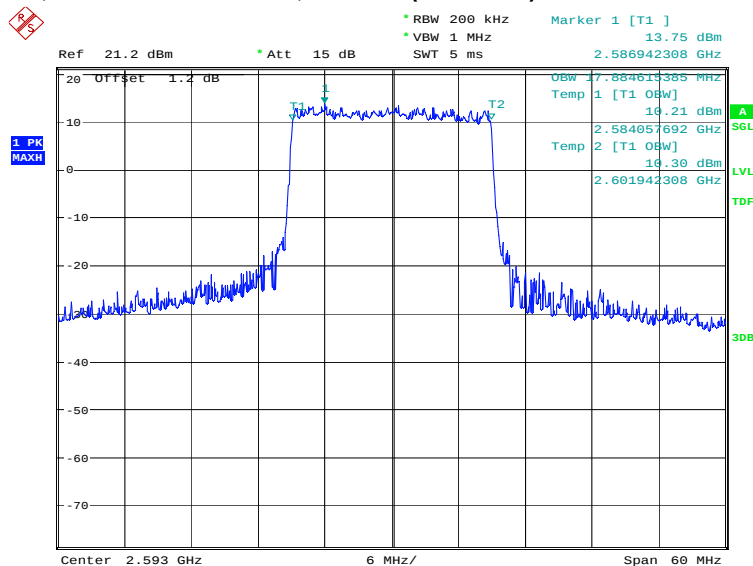
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	17980.77	17884.62

LTE band 41, 20MHz Bandwidth, QPSK (99% BW)



Date: 11.JUL.2022 15:03:52

LTE band 41, 20MHz Bandwidth,16QAM (99% BW)

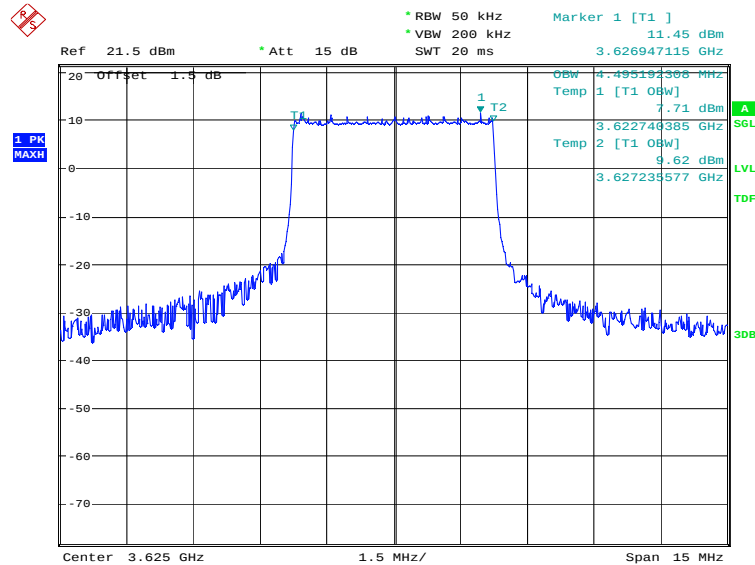


Date: 11.JUL.2022 15:04:32

LTE band 48, 5MHz (99%)

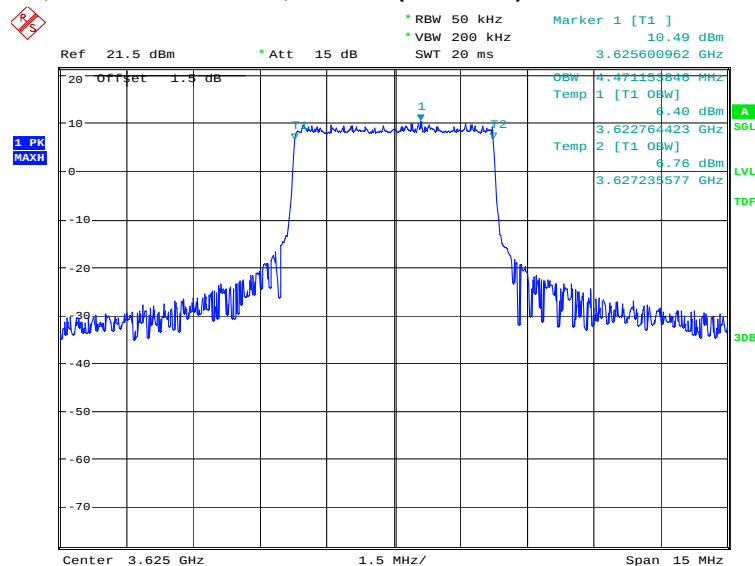
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
3625.0	QPSK	16QAM
	4495.19	4471.15

LTE band 48, 5MHz Bandwidth, QPSK (99% BW)



Date: 11.JUL.2022 15:48:22

LTE band 48, 5MHz Bandwidth, 16QAM (99% BW)

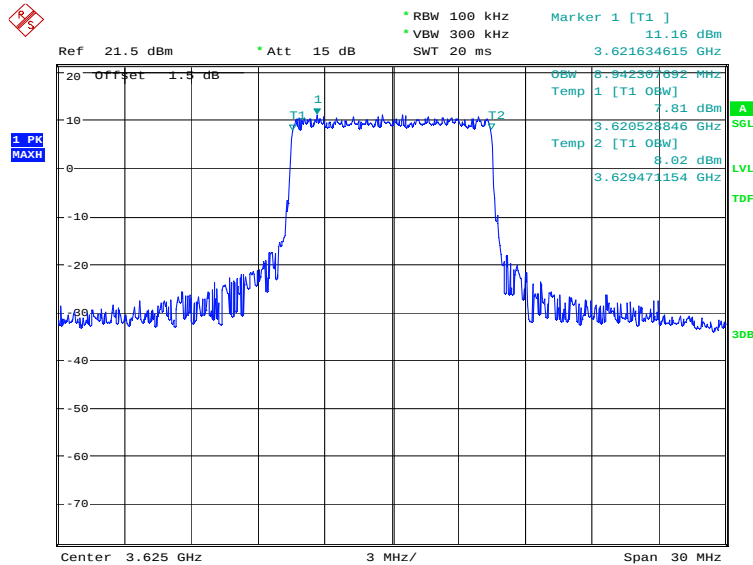


Date: 11.JUL.2022 15:49:01

LTE band 48, 10MHz (99%)

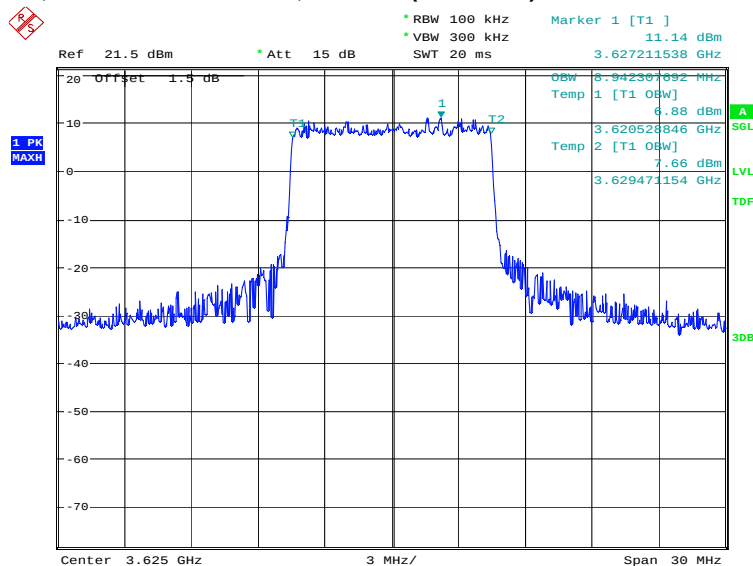
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
3625.0	QPSK	16QAM
	8942.31	8942.31

LTE band 48, 10MHz Bandwidth, QPSK (99% BW)



Date: 11.JUL.2022 15:49:45

LTE band 48, 10MHz Bandwidth,16QAM (99% BW)

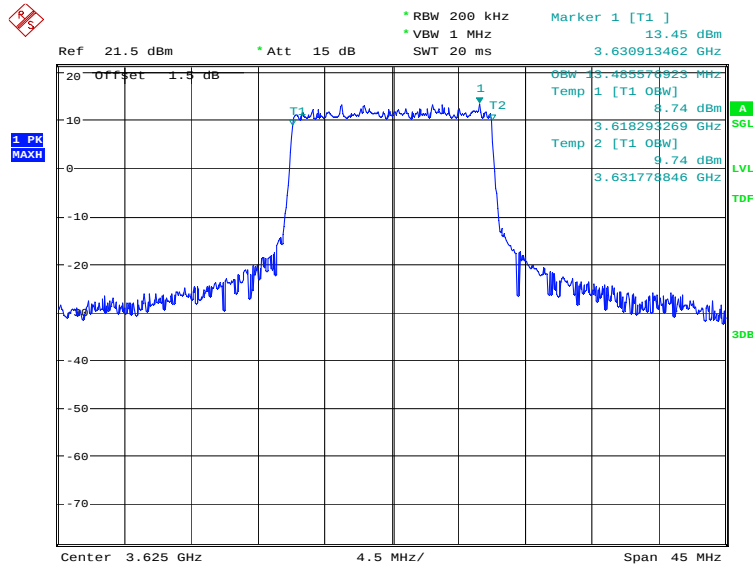


Date: 11.JUL.2022 15:50:24

LTE band 48, 15MHz (99%)

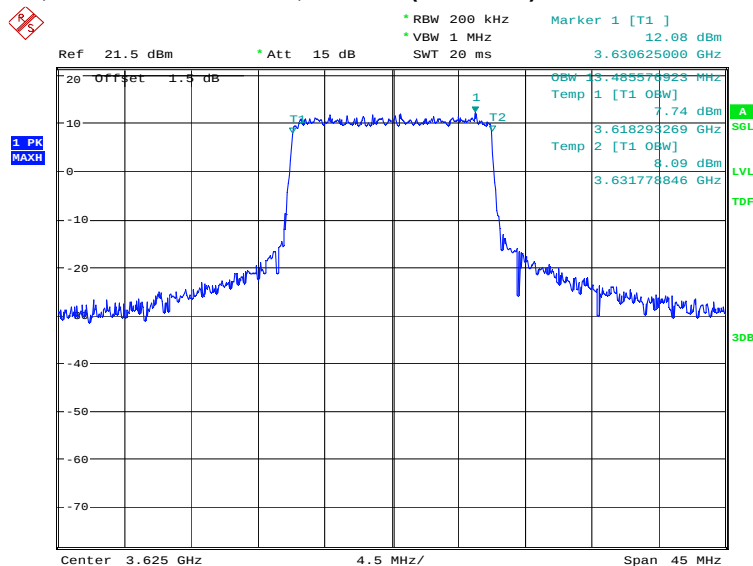
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
3625.0	QPSK	16QAM
	13485.58	13485.58

LTE band 48, 15MHz Bandwidth, QPSK (99% BW)



Date: 11.JUL.2022 15:51:07

LTE band 48, 15MHz Bandwidth,16QAM (99% BW)

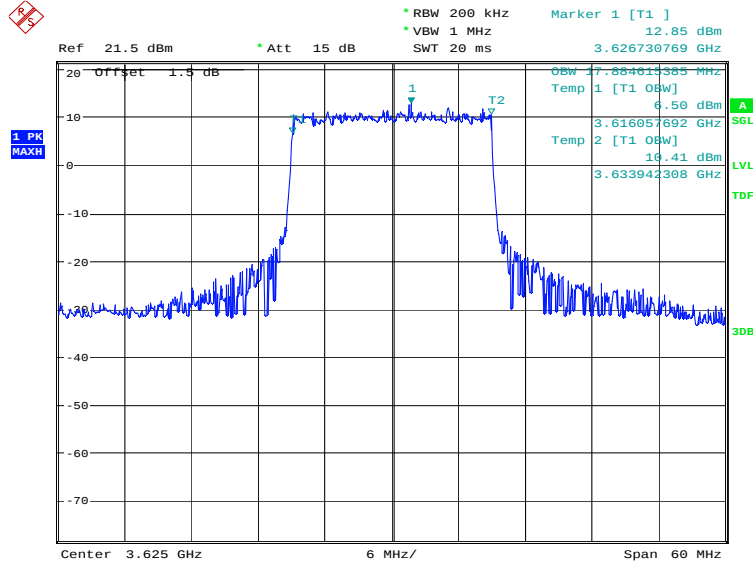


Date: 11.JUL.2022 15:51:47

LTE band 48, 20MHz (99%)

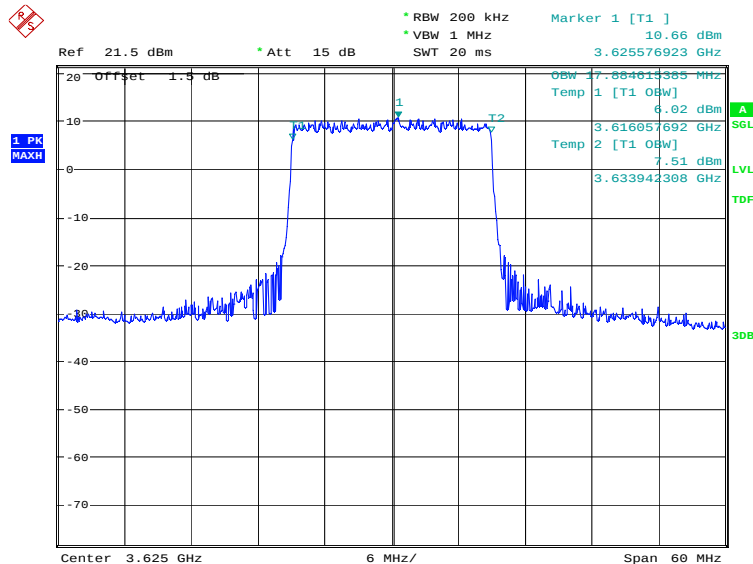
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
3625.0	QPSK	16QAM
	17884.62	17884.62

LTE band 48, 20MHz Bandwidth, QPSK (99% BW)



Date: 11.JUL.2022 15:52:30

LTE band 48, 20MHz Bandwidth, 16QAM (99% BW)

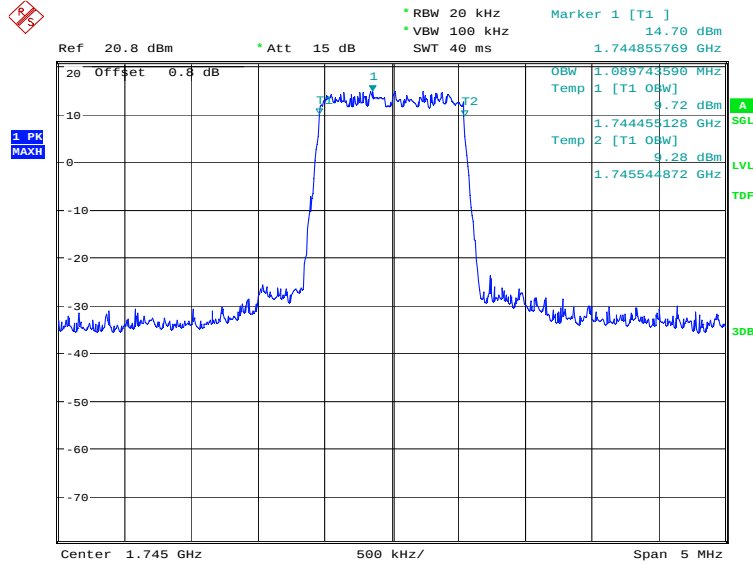


Date: 11.JUL.2022 15:53:09

LTE band 66, 1.4MHz (99%)

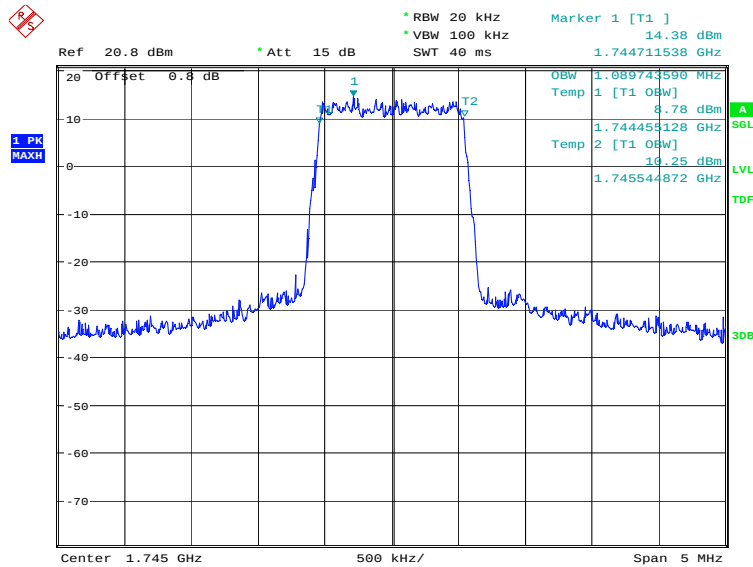
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	1089.74	1089.74

LTE band 66, 1.4MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 19:12:55

LTE band 66, 1.4MHz Bandwidth, 16QAM (99% BW)

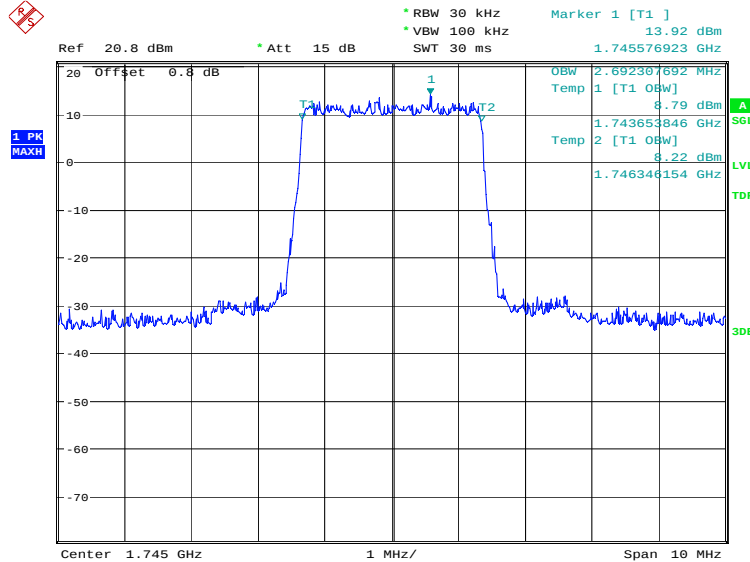


Date: 6. JUN.2022 19:13:35

LTE band 66, 3MHz (99%)

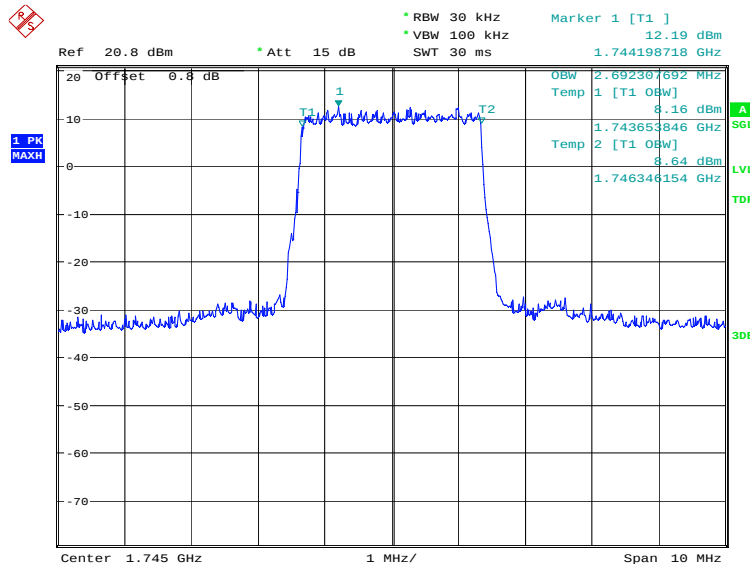
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	2692.31	2692.31

LTE band 66, 3MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 19:14:19

LTE band 66, 3MHz Bandwidth, 16QAM (99% BW)

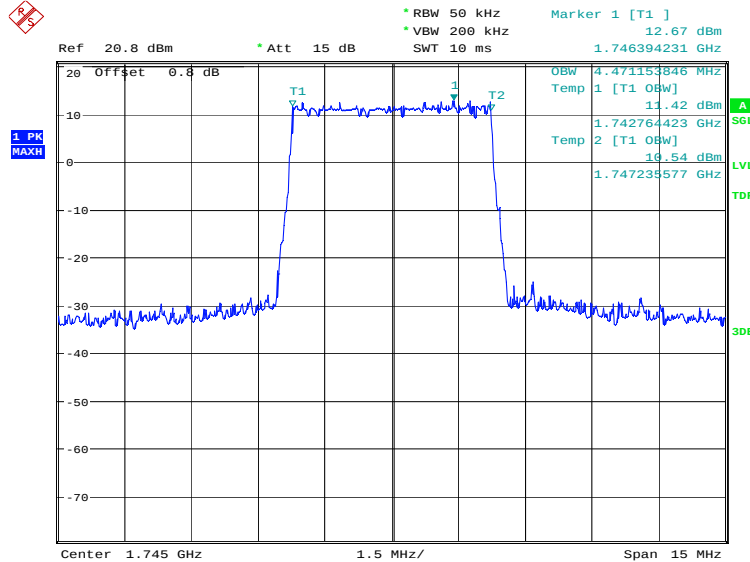


Date: 6. JUN.2022 19:14:59

LTE band 66, 5MHz (99%)

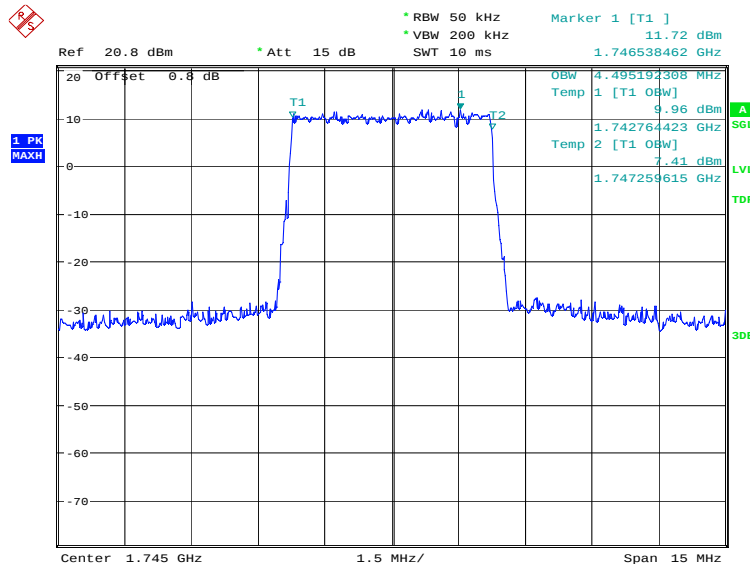
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	4471.15	4495.19

LTE band 66, 5MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 19:15:43

LTE band 66, 5MHz Bandwidth, 16QAM (99% BW)

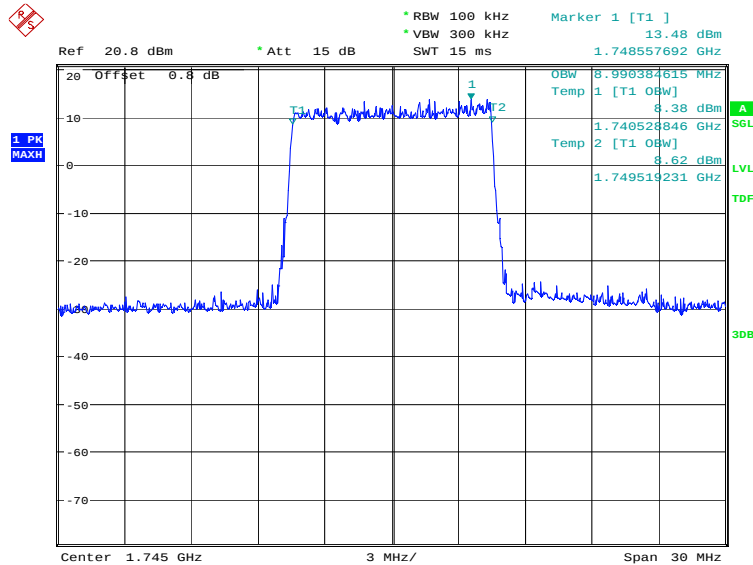


Date: 6. JUN.2022 19:16:23

LTE band 66, 10MHz (99%)

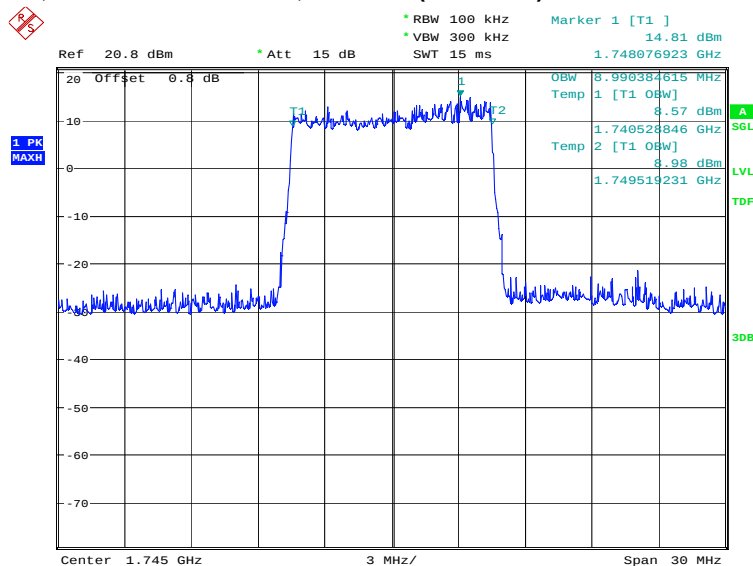
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	8990.38	8990.38

LTE band 66, 10MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 19:17:08

LTE band 66, 10MHz Bandwidth, 16QAM (99% BW)

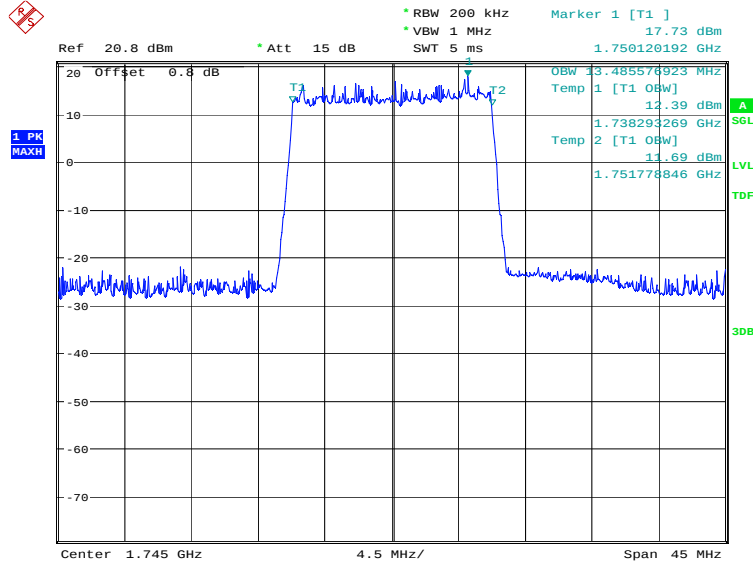


Date: 6. JUN.2022 19:17:47

LTE band 66, 15MHz (99%)

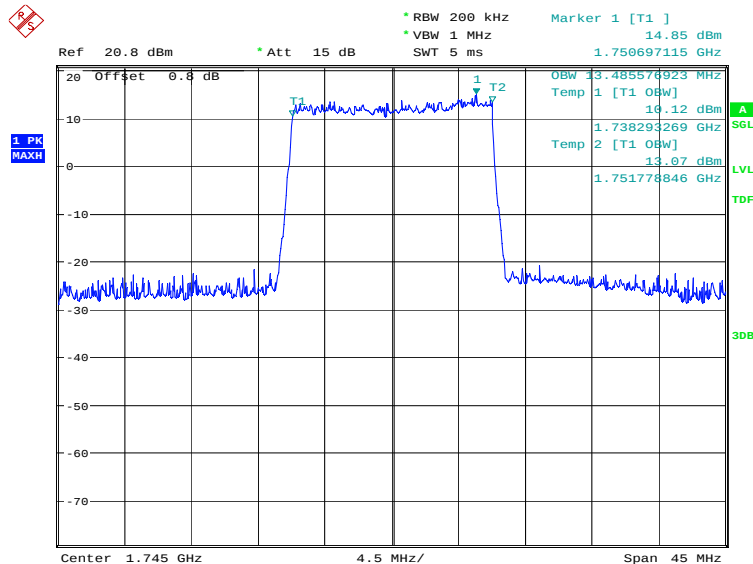
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	13485.58	13485.58

LTE band 66, 15MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 19:18:31

LTE band 66, 15MHz Bandwidth, 16QAM (99% BW)

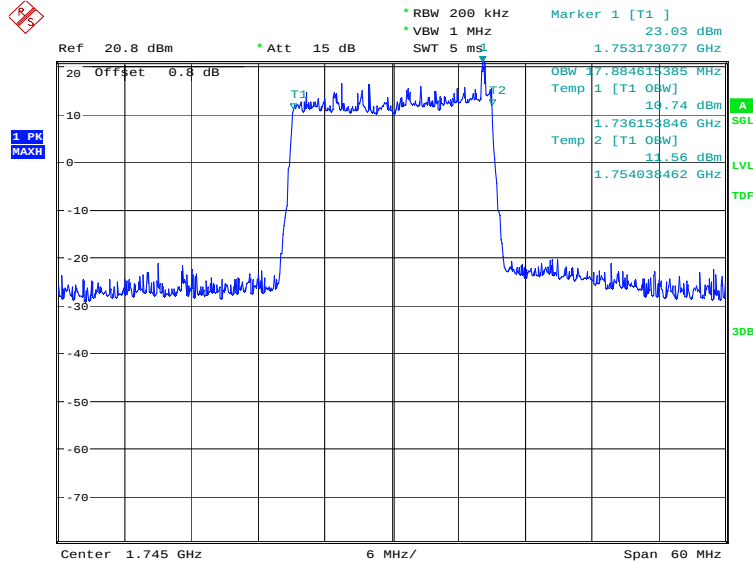


Date: 6. JUN.2022 19:19:10

LTE band 66, 20MHz (99%)

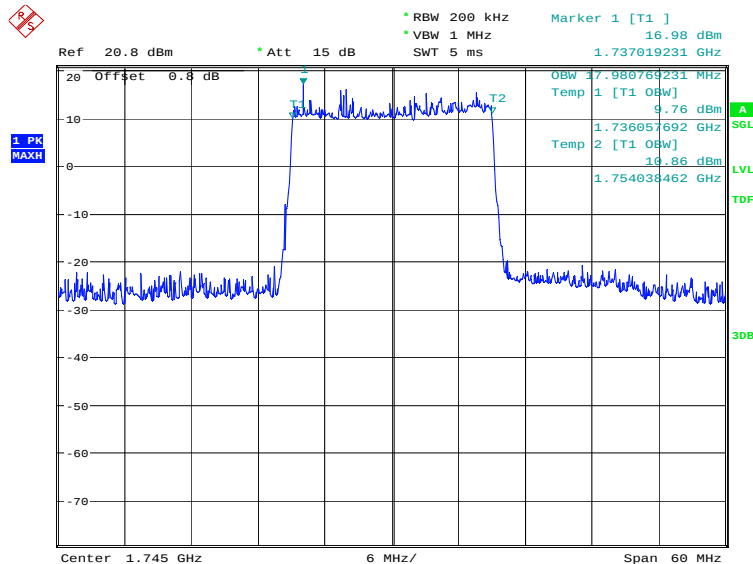
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	17884.62	17980.77

LTE band 66, 20MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 19:19:54

LTE band 66, 20MHz Bandwidth, 16QAM (99% BW)

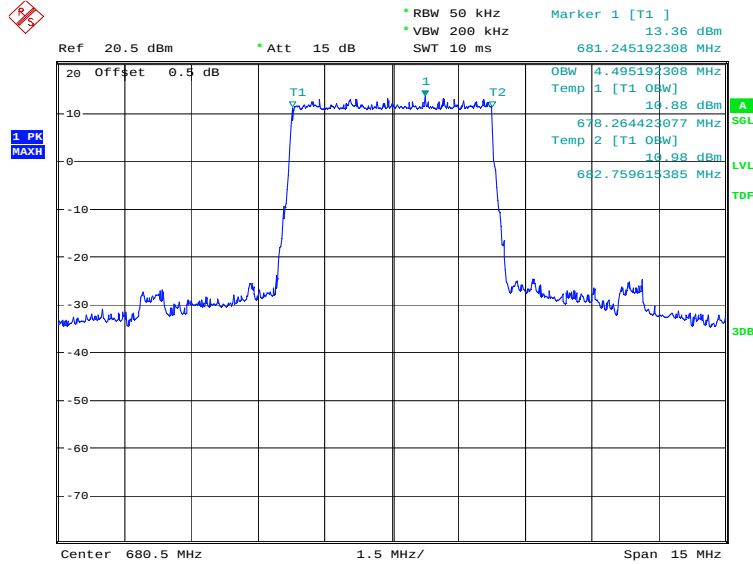


Date: 6. JUN.2022 19:20:33

LTE band 71, 5MHz (99%)

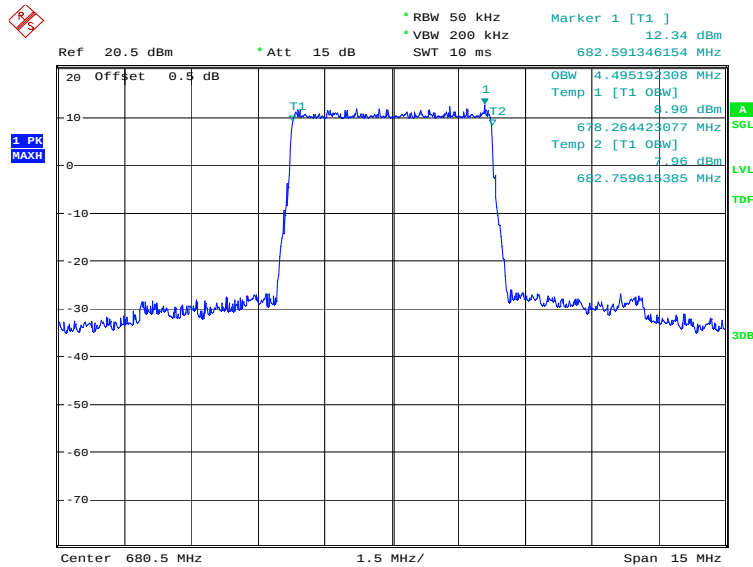
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	4495.19	4495.19

LTE band 71, 5MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 18:29:37

LTE band 71, 5MHz Bandwidth, 16QAM (99% BW)

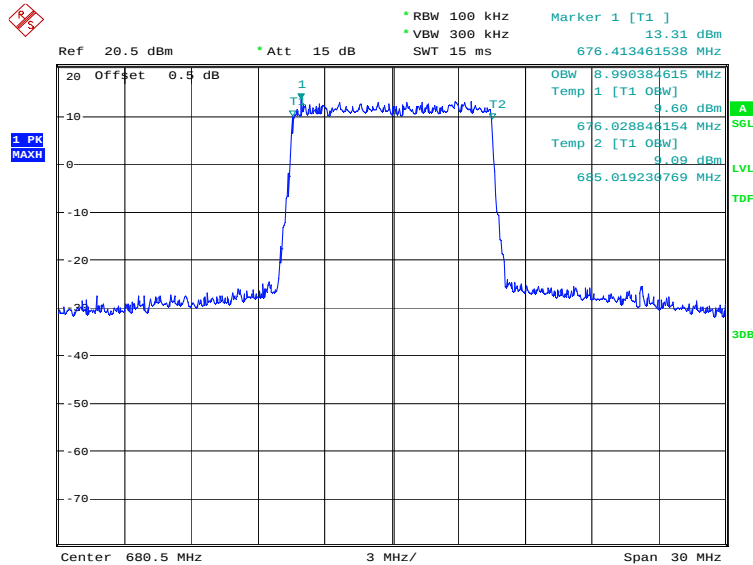


Date: 6. JUN.2022 18:30:16

LTE band 71, 10MHz (99%)

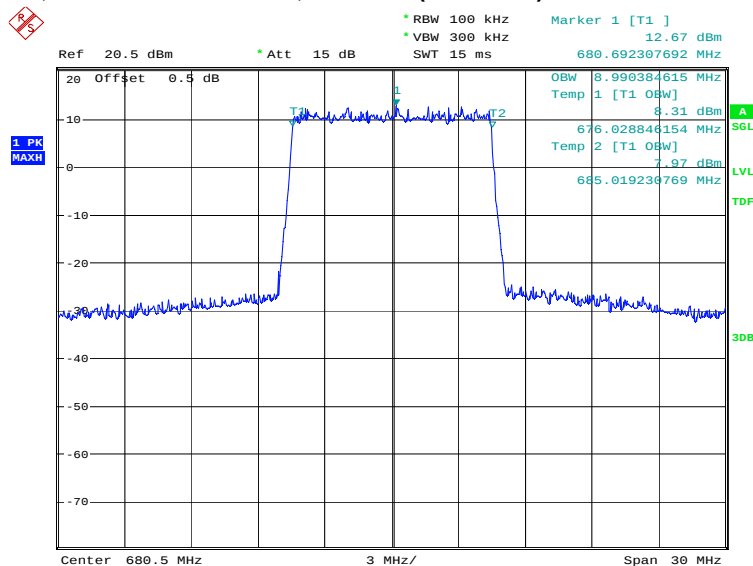
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	8990.38	8990.38

LTE band 71, 10MHz Bandwidth, QPSK (99% BW)



Date: 6.JUN.2022 18:30:59

LTE band 71, 10MHz Bandwidth, 16QAM (99% BW)

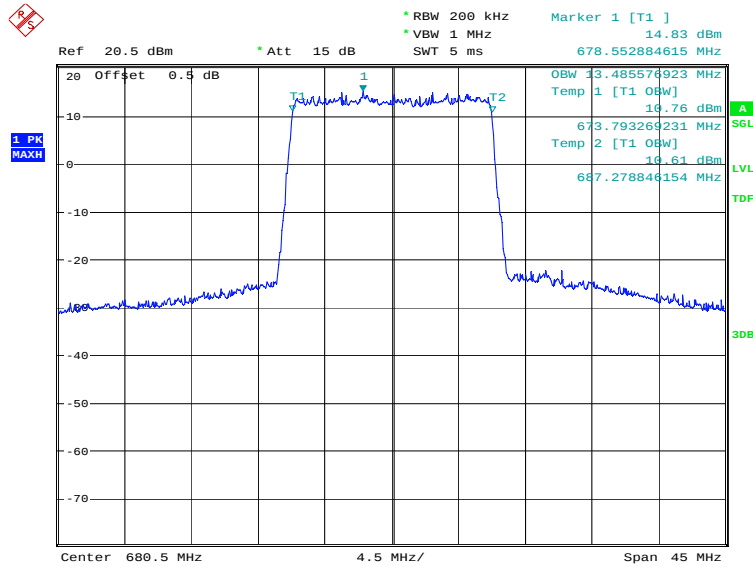


Date: 6.JUN.2022 18:31:39

LTE band 71, 15MHz (99%)

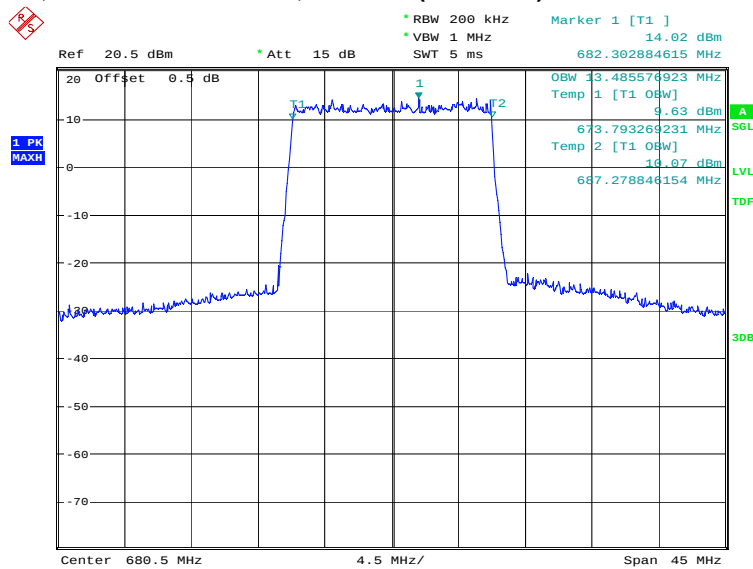
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	13485.58	13485.58

LTE band 71, 15MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN.2022 18:32:22

LTE band 71, 15MHz Bandwidth, 16QAM (99% BW)

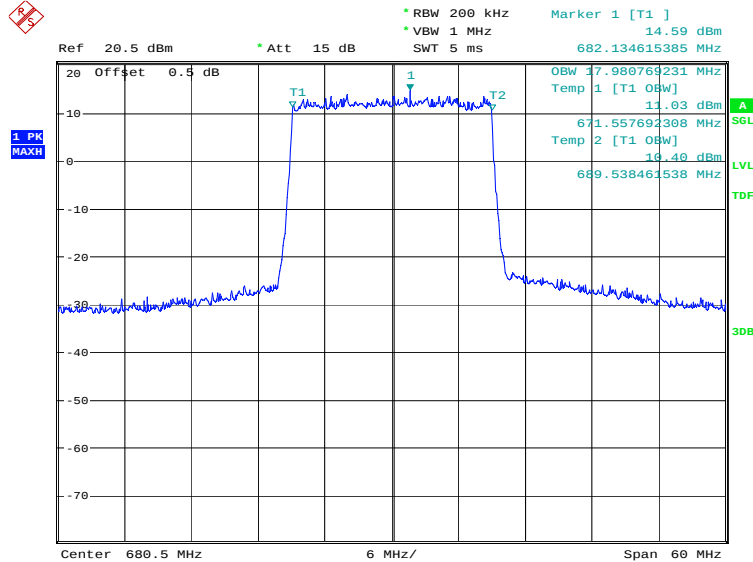


Date: 6. JUN.2022 18:33:02

LTE band 71, 20MHz (99%)

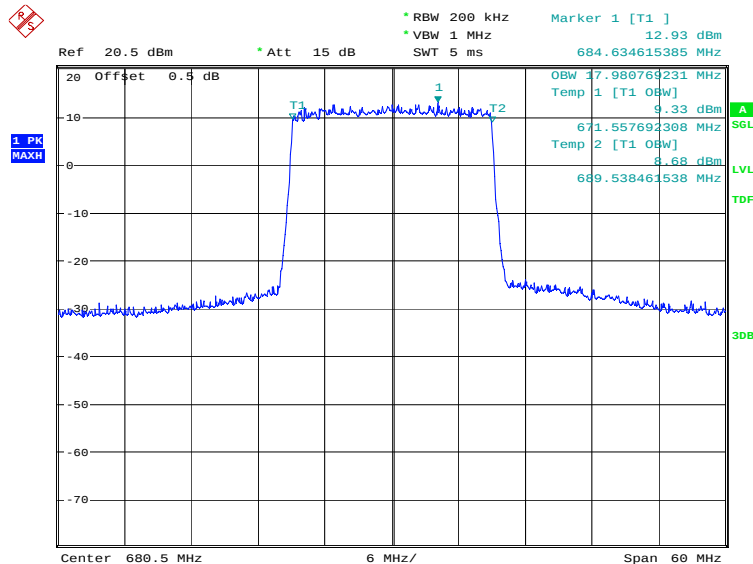
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	17980.77	17980.77

LTE band 71, 20MHz Bandwidth, QPSK (99% BW)



Date: 6. JUN. 2022 18:33:45

LTE band 71, 20MHz Bandwidth, 16QAM (99% BW)

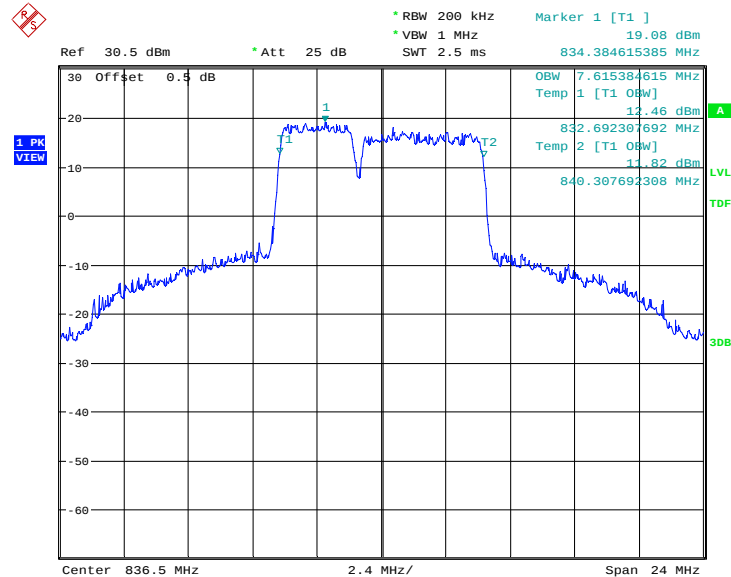


Date: 6. JUN. 2022 18:34:25

LTE CA Band 5B, 3MHz+5MHz (99%)

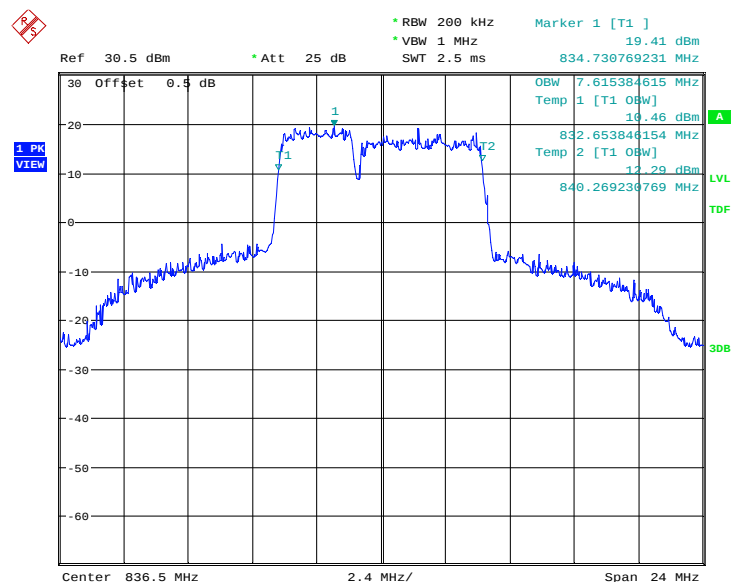
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
836.5	7.615	7.615

LTE CA Band 5B, 3MHz+5MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:25:21

LTE CA Band 5B, 3MHz+5MHz Bandwidth, 16QAM (99% BW)

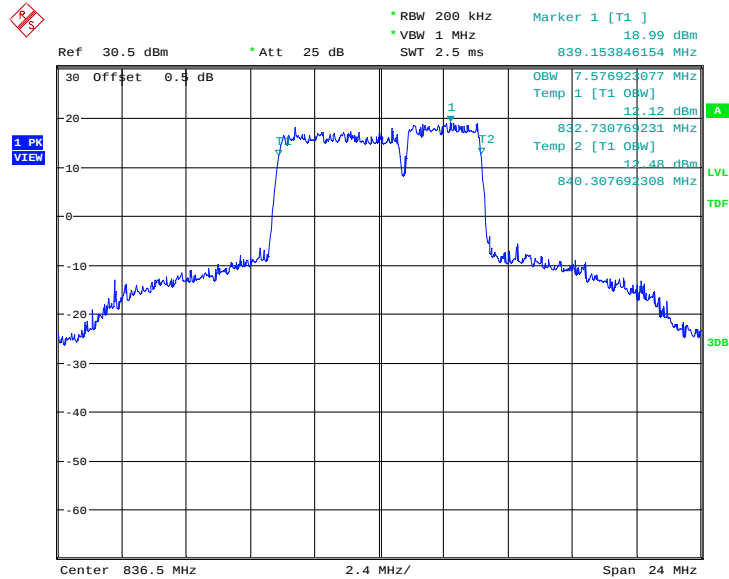


Date: 4.JUL.2022 15:25:44

LTE CA Band 5B, 5MHz+3MHz (99%)

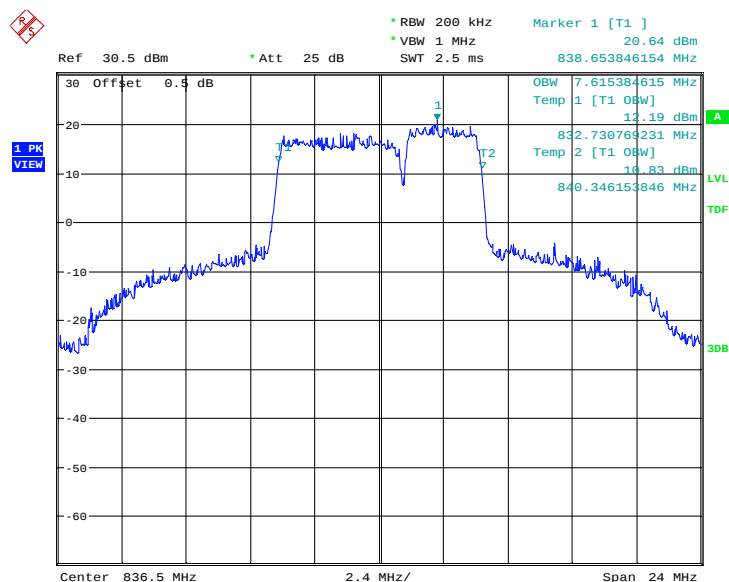
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
836.5	7.577	7.615

LTE CA Band 5B, 5MHz+3MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:26:41

LTE CA Band 5B, 5MHz+3MHz Bandwidth, 16QAM (99% BW)

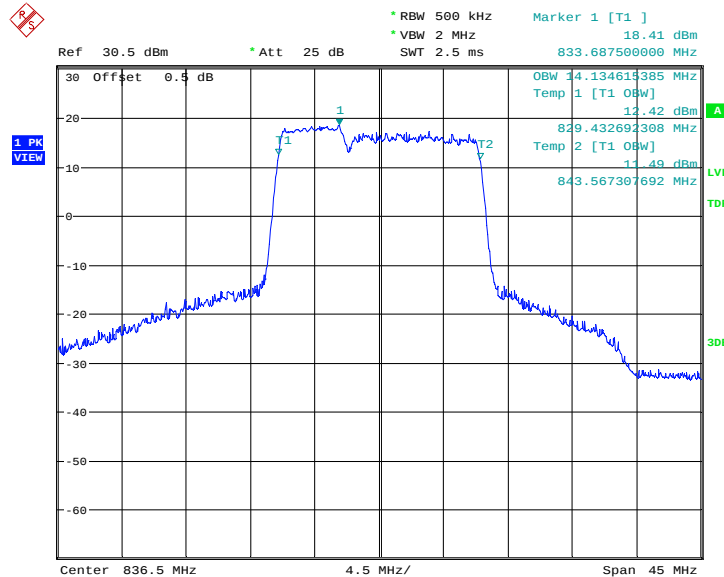


Date: 4.JUL.2022 15:27:04

LTE CA Band 5B, 5MHz+10MHz (99%)

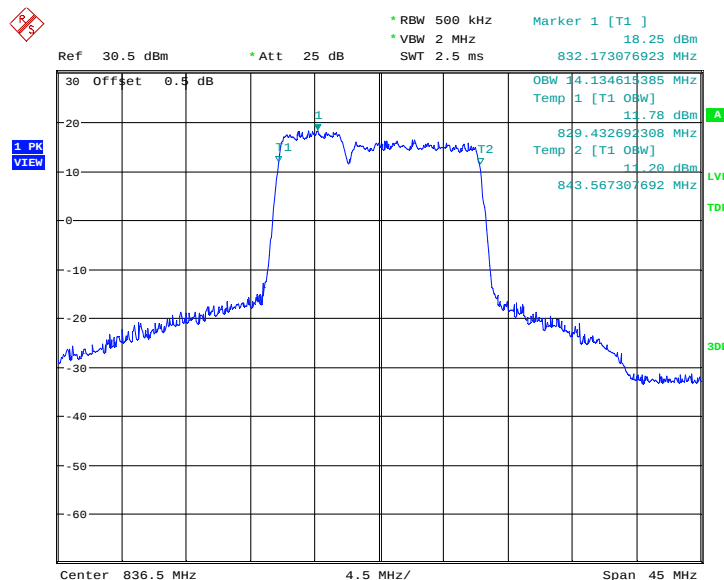
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
836.5	14.135	14.135

LTE CA Band 5B, 5MHz+10MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:28:00

LTE CA Band 5B, 5MHz+10MHz Bandwidth, 16QAM (99% BW)

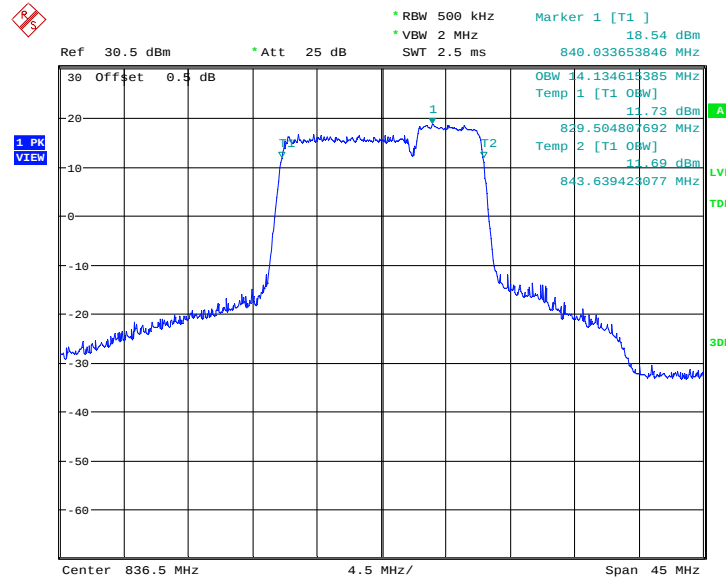


Date: 4.JUL.2022 15:28:23

LTE CA Band 5B, 10MHz+5MHz (99%)

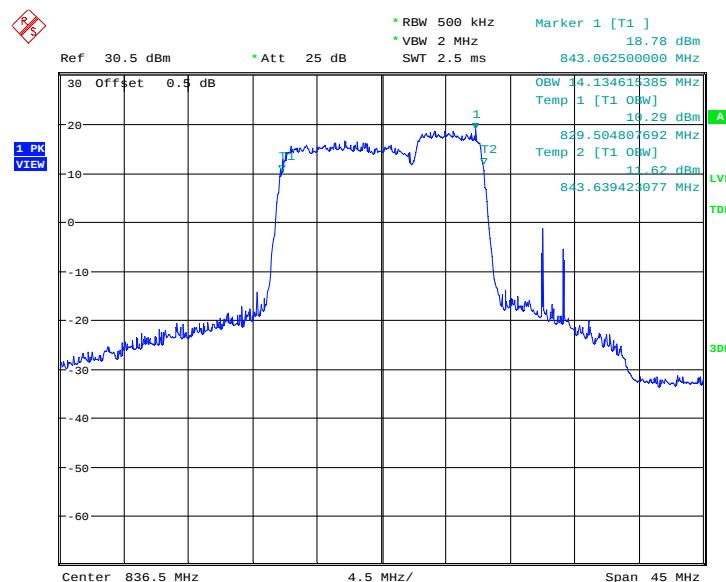
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
836.5	14.135	14.135

LTE CA Band 5B, 10MHz+5MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:29:20

LTE CA Band 5B, 10MHz+5MHz Bandwidth, 16QAM (99% BW)

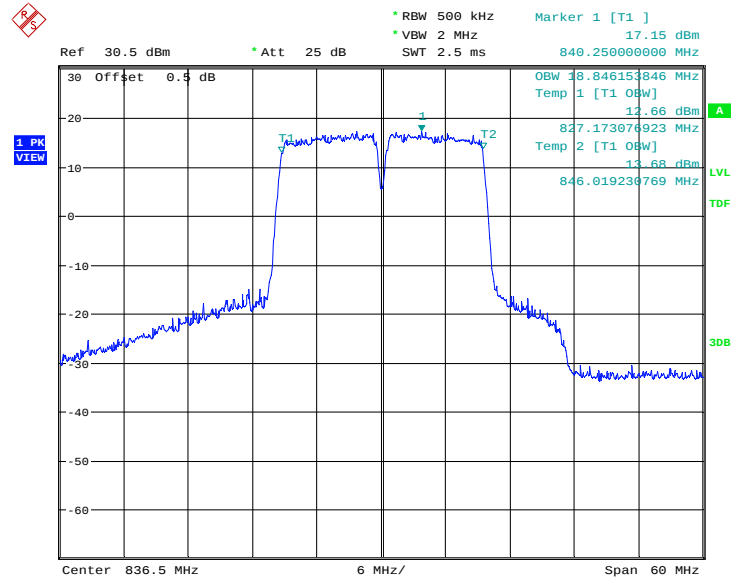


Date: 4.JUL.2022 15:29:43

LTE CA Band 5B, 10MHz+10MHz (99%)

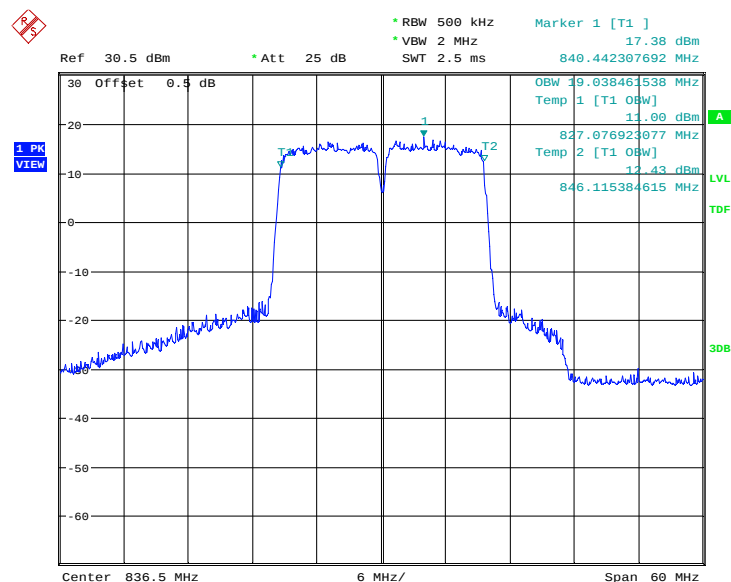
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
836.5	18.846	19.038

LTE CA Band 5B, 10MHz+10MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:30:39

LTE CA Band 5B , 10MHz+10MHz Bandwidth, 16QAM (99% BW)

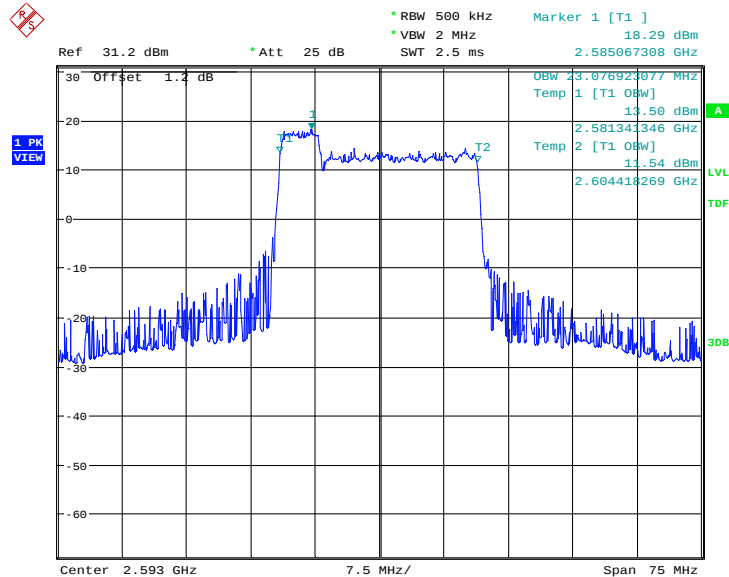


Date: 4.JUL.2022 15:31:02

LTE CA Band 41C, 5MHz+20MHz (99%)

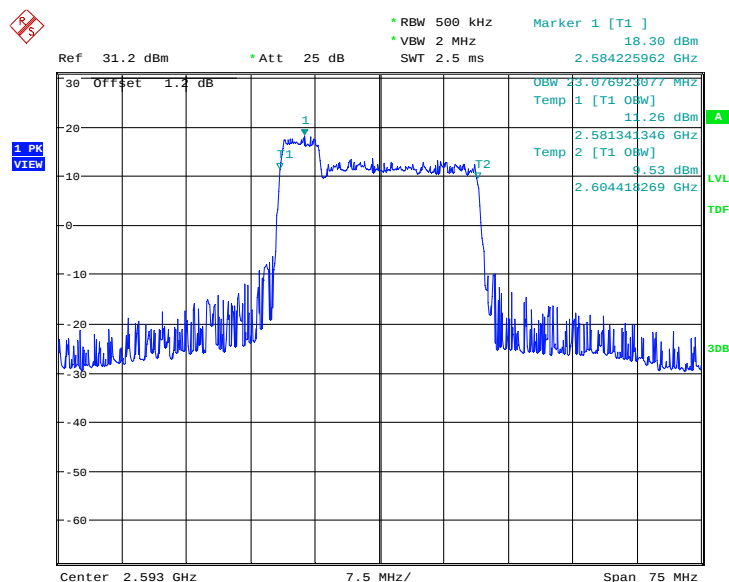
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593	23.077	23.077

LTE CA Band 41C, 5MHz+20MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 10:07:34

LTE CA Band 41C, 5MHz+20MHz Bandwidth, 16QAM (99% BW)

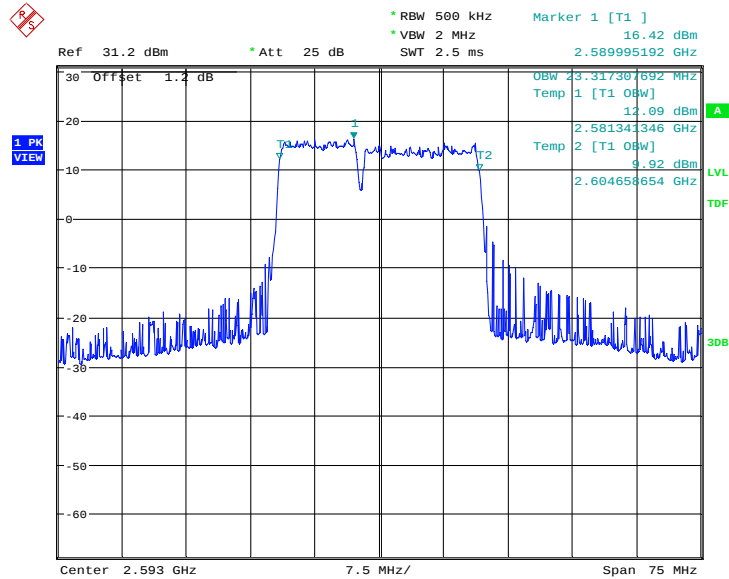


Date: 4.JUL.2022 10:07:56

LTE CA Band 41C, 10MHz+15MHz (99%)

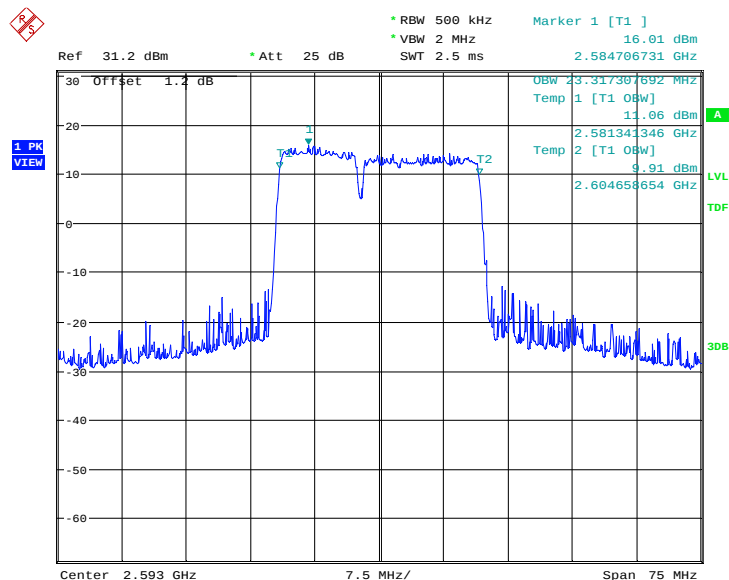
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593	23.317	23.317

LTE CA Band 41C, 10MHz+15MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 10:09:00

LTE CA Band 41C, 10MHz+15MHz Bandwidth, 16QAM (99% BW)

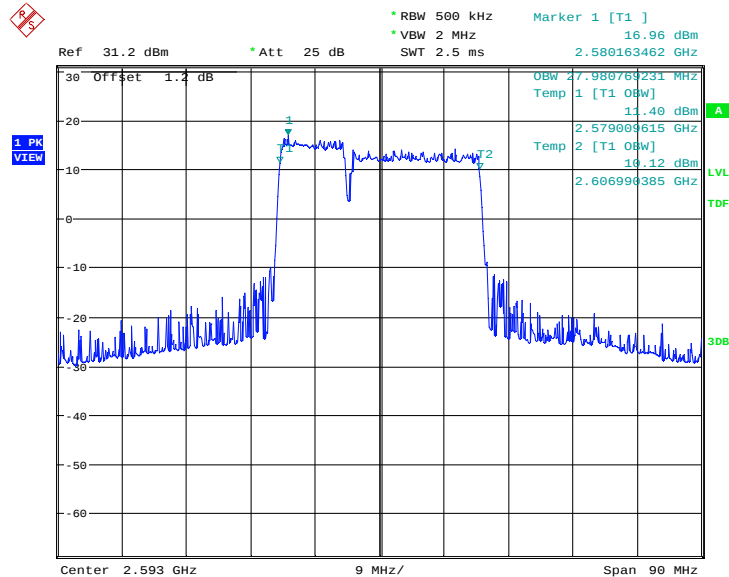


Date: 4.JUL.2022 10:09:22

LTE CA Band 41C, 10MHz+20MHz (99%)

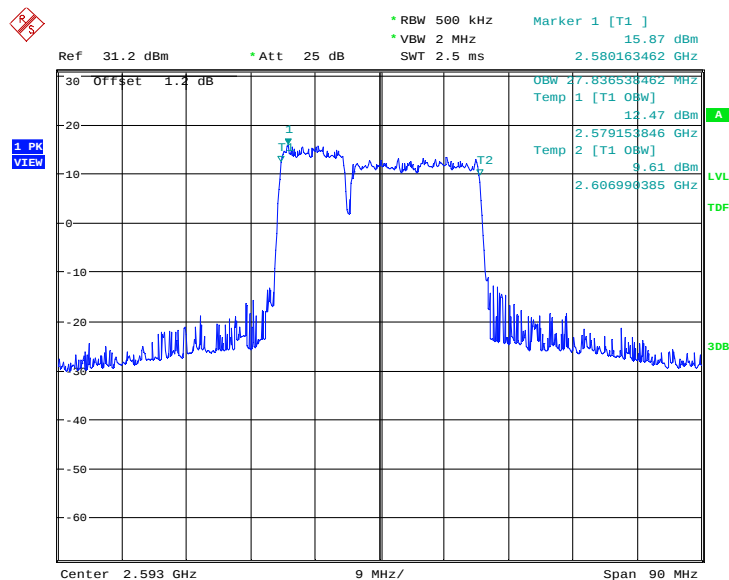
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593	27.981	27.837

LTE CA Band 41C, 10MHz+20MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 10:10:16

LTE CA Band 41C, 10MHz+20MHz Bandwidth, 16QAM (99% BW)

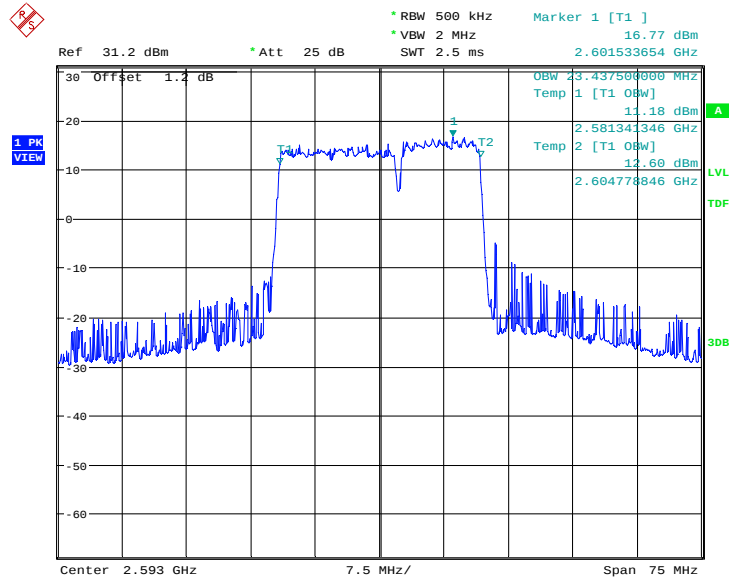


Date: 4.JUL.2022 10:10:38

LTE CA Band 41C, 15MHz+10MHz (99%)

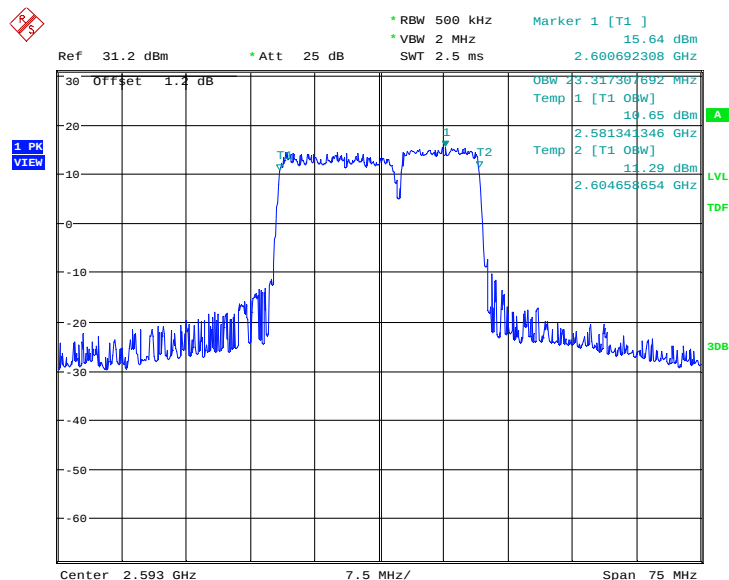
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593	23.438	23.317

LTE CA Band 41C, 15MHz+10MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 10:11:43

LTE CA Band 41C, 15MHz+10MHz Bandwidth, 16QAM (99% BW)

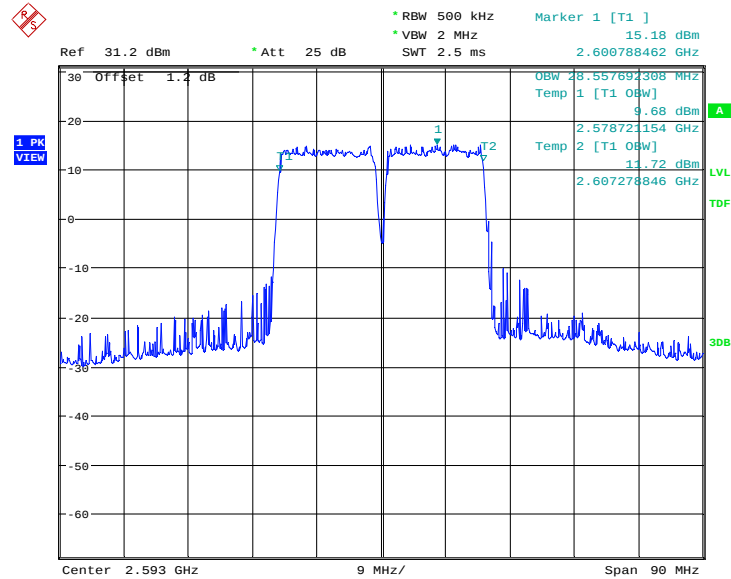


Date: 4.JUL.2022 10:12:05

LTE CA Band 41C, 15MHz+15MHz (99%)

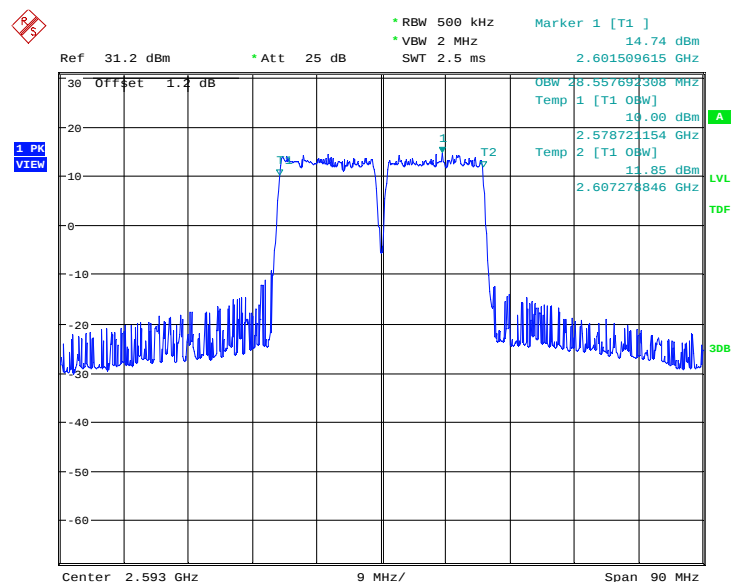
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593	28.558	28.558

LTE CA Band 41C, 15MHz+15MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 10:13:03

LTE CA Band 41C, 15MHz+15MHz Bandwidth, 16QAM (99% BW)

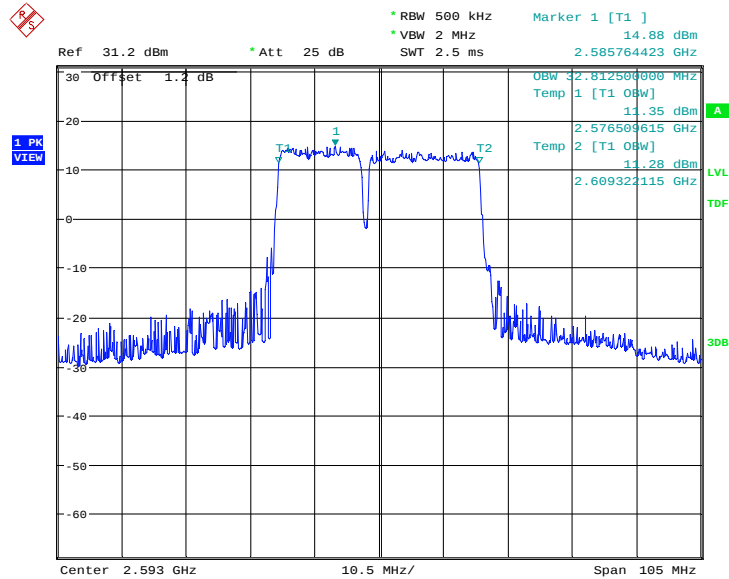


Date: 4.JUL.2022 10:13:26

LTE CA Band 41C, 15MHz+20MHz (99%)

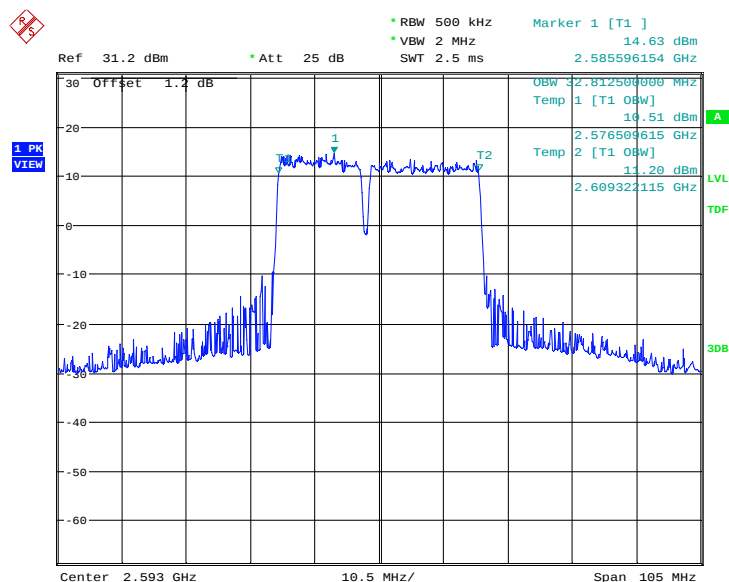
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593	32.813	32.813

LTE CA Band 41C, 15MHz+20MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 10:14:20

LTE CA Band 41C, 15MHz+20MHz Bandwidth, 16QAM (99% BW)

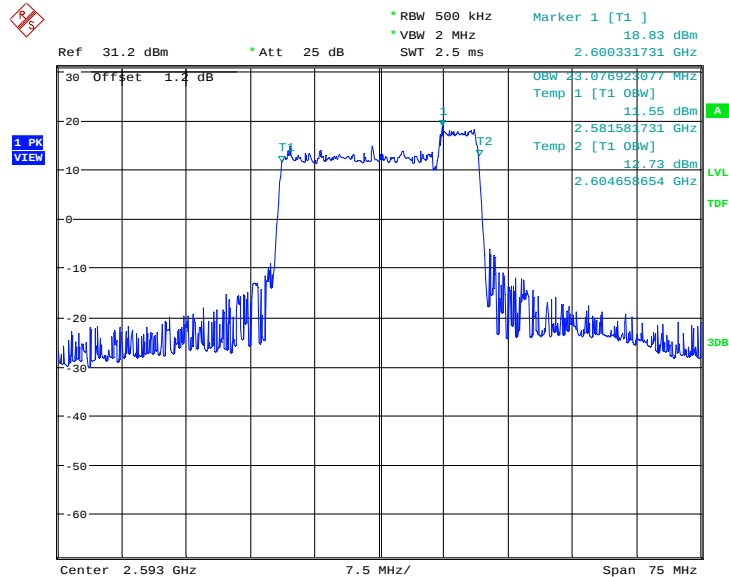


Date: 4.JUL.2022 10:14:42

LTE CA Band 41C, 20MHz+5MHz (99%)

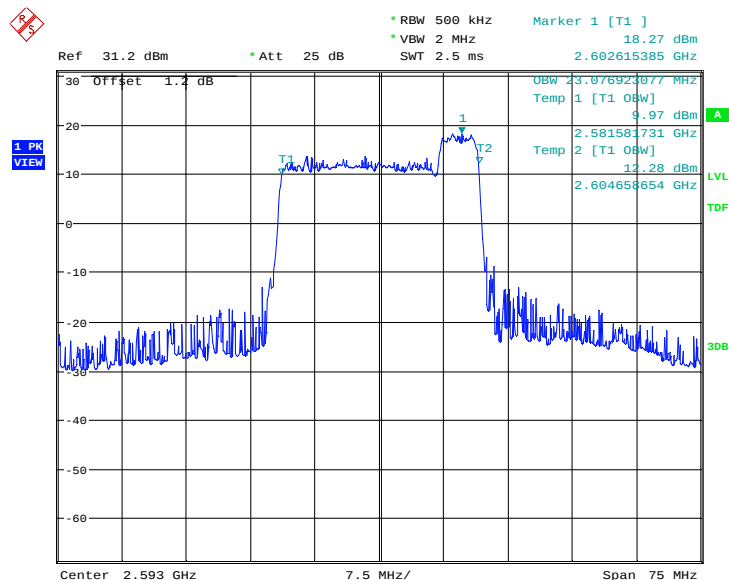
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593	23.077	23.077

LTE CA Band 41C, 20MHz+5MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 10:15:47

LTE CA Band 41C, 20MHz+5MHz Bandwidth, 16QAM (99% BW)

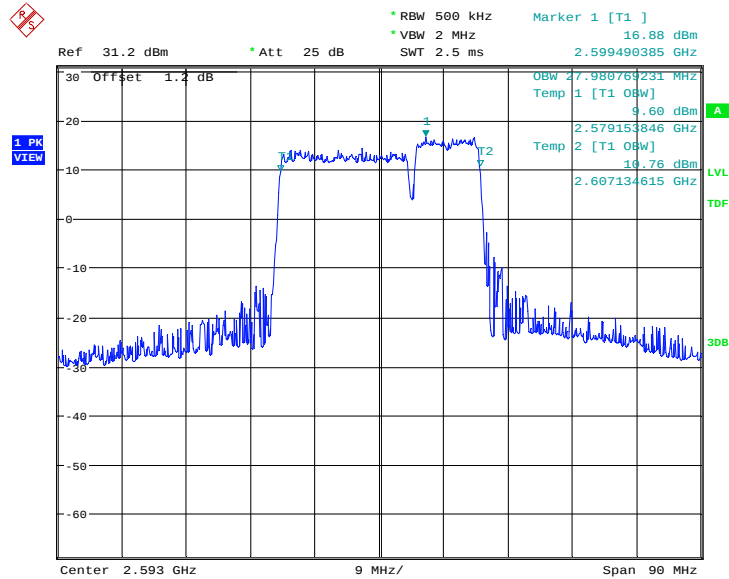


Date: 4.JUL.2022 10:16:09

LTE CA Band 41C, 20MHz+10MHz (99%)

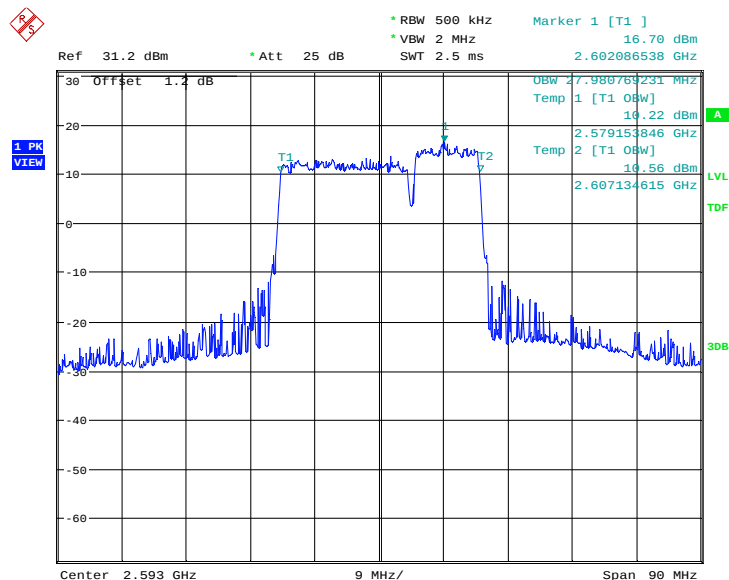
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593	27.981	27.981

LTE CA Band 41C, 20MHz+10MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 10:17:10

LTE CA Band 41C, 20MHz+10MHz Bandwidth, 16QAM (99% BW)

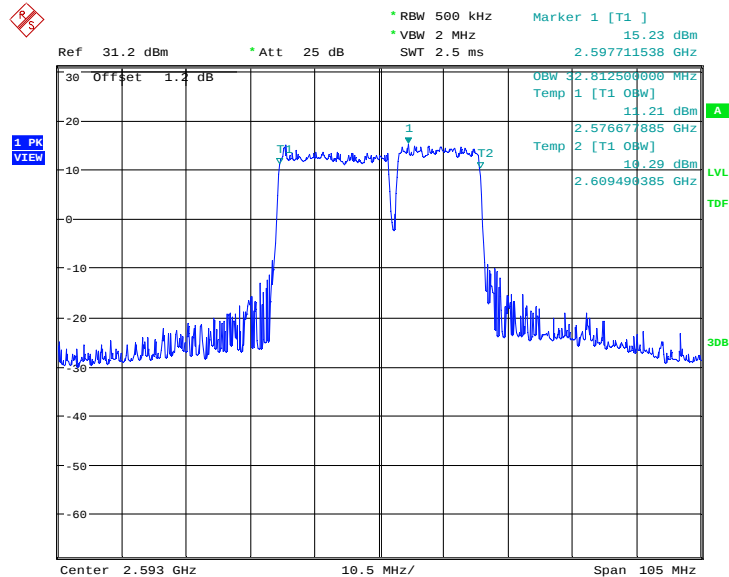


Date: 4.JUL.2022 10:17:32

LTE CA Band 41C, 20MHz+15MHz (99%)

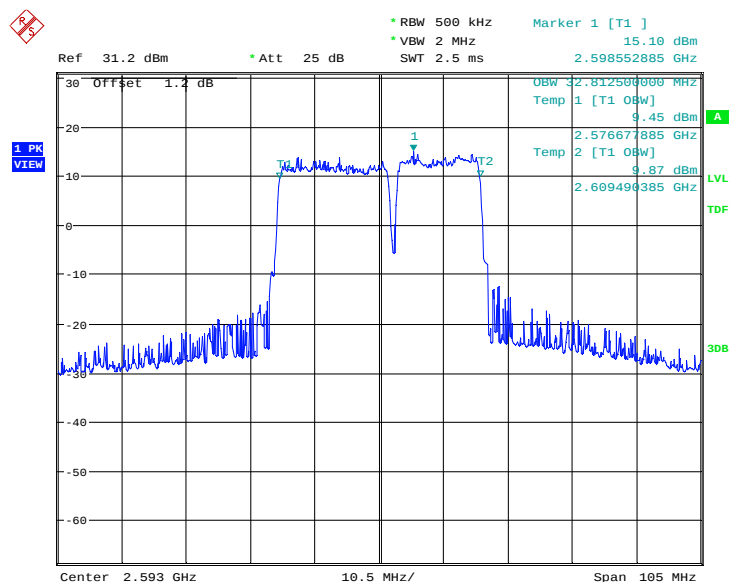
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593	32.813	32.813

LTE CA Band 41C, 20MHz+15MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 10:18:37

LTE CA Band 41C, 20MHz+15MHz Bandwidth, 16QAM (99% BW)

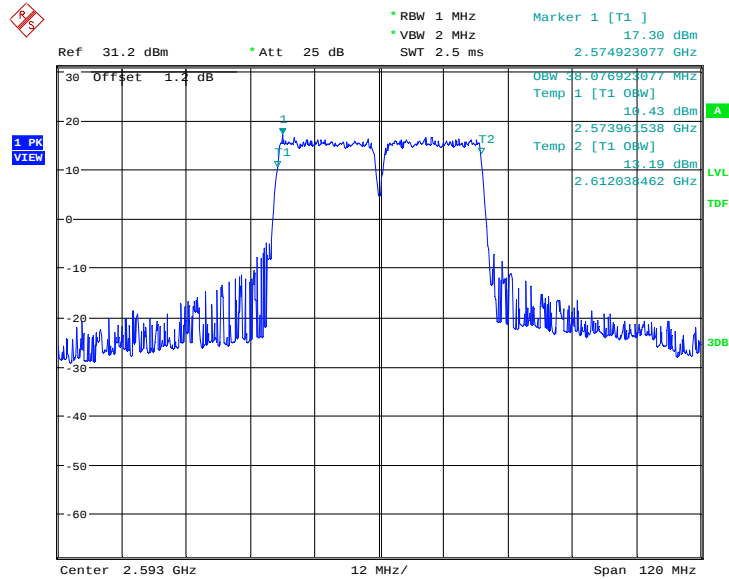


Date: 4.JUL.2022 10:18:59

LTE CA Band 41C, 20MHz+20MHz (99%)

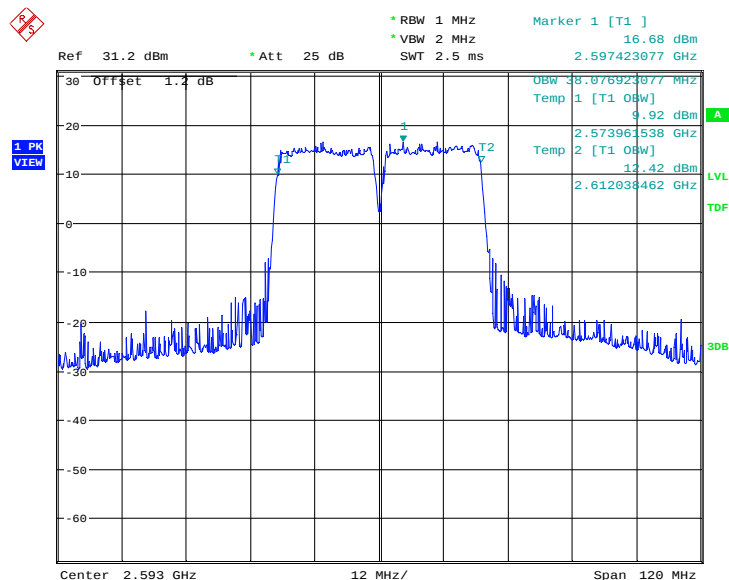
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593	38.077	38.077

LTE CA Band 41C, 20MHz+20MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 10:19:57

LTE CA Band 41C, 20MHz+20MHz Bandwidth, 16QAM (99% BW)

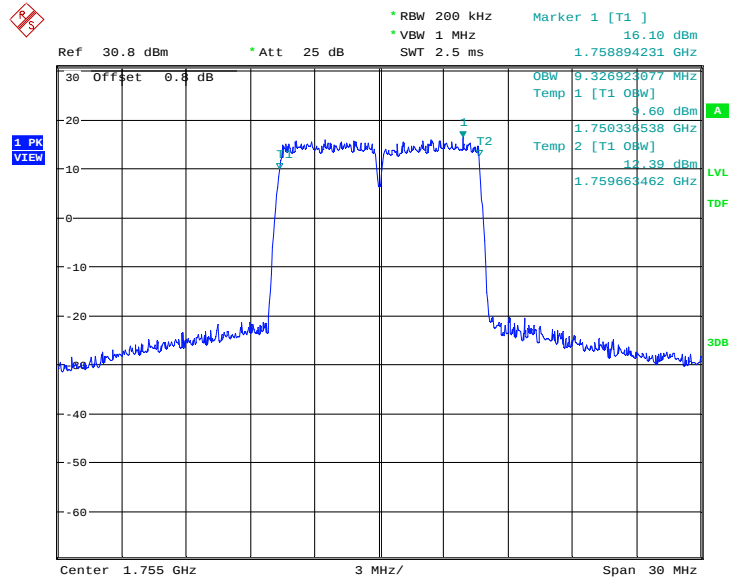


Date: 4.JUL.2022 10:20:19

LTE CA Band 66B, 5MHz+5MHz (99%)

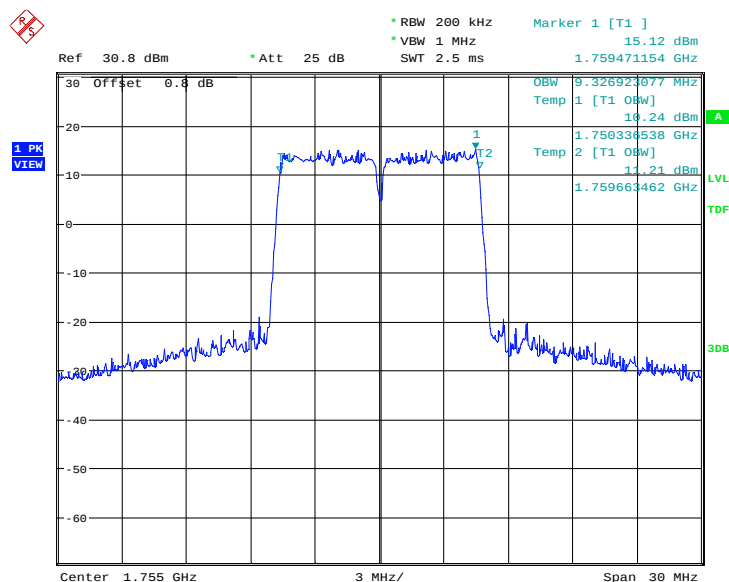
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	9.327	9.327

LTE CA Band 66B, 5MHz+5MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:32:04

LTE CA Band 66B, 5MHz+5MHz Bandwidth, 16QAM (99% BW)

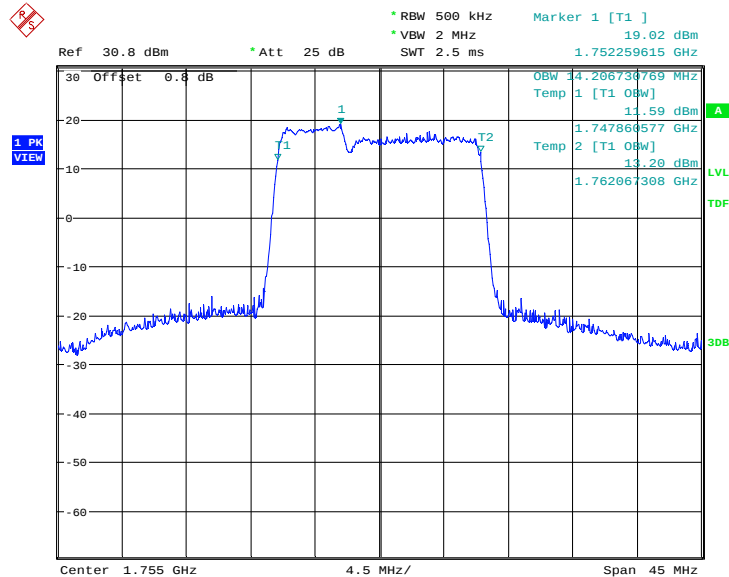


Date: 4.JUL.2022 15:32:27

LTE CA Band 66B, 5MHz+10MHz (99%)

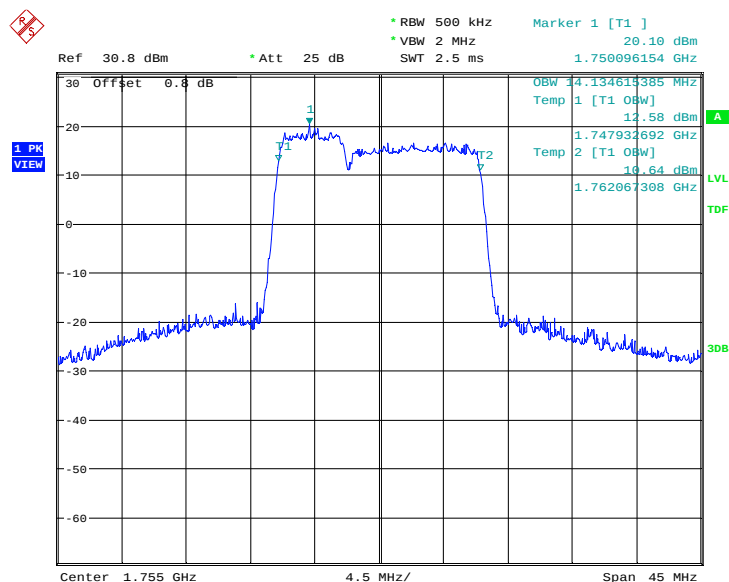
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	14.207	14.135

LTE CA Band 66B, 5MHz+10MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:33:23

LTE CA Band 66B, 5MHz+10MHz Bandwidth, 16QAM (99% BW)

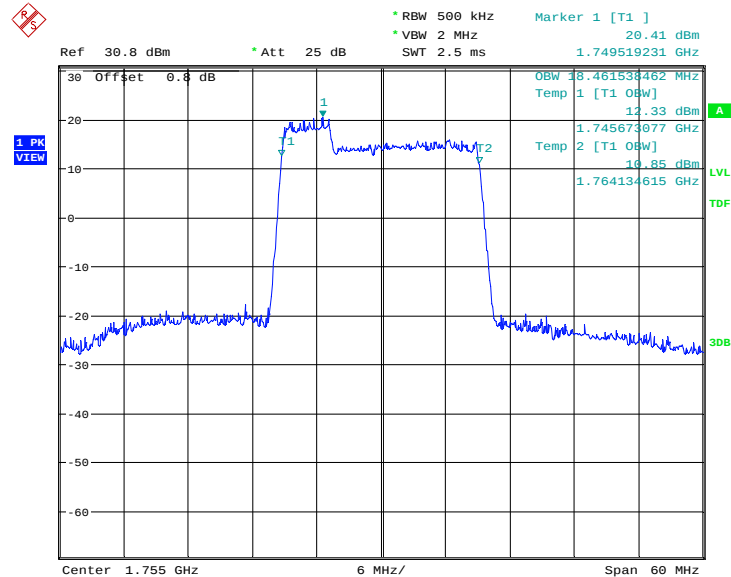


Date: 4.JUL.2022 15:33:46

LTE CA Band 66B, 5MHz+15MHz (99%)

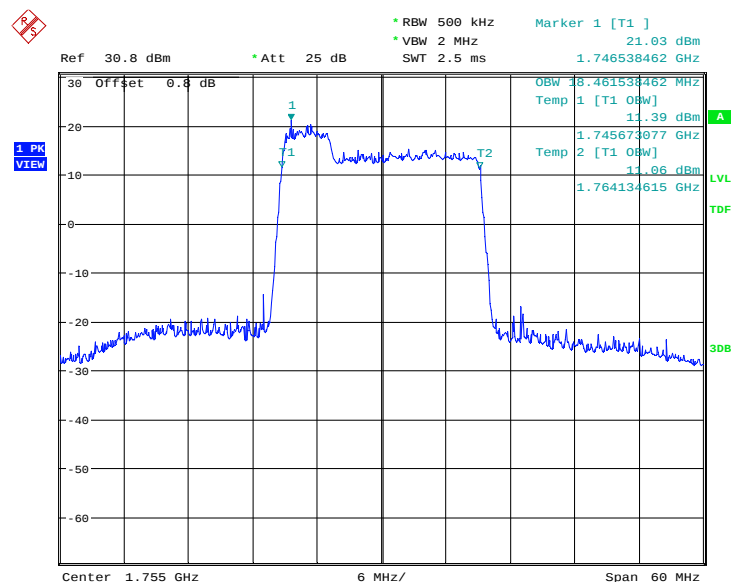
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	18.462	18.462

LTE CA Band 66B, 5MHz+15MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:34:42

LTE CA Band 66B, 5MHz+15MHz Bandwidth, 16QAM (99% BW)

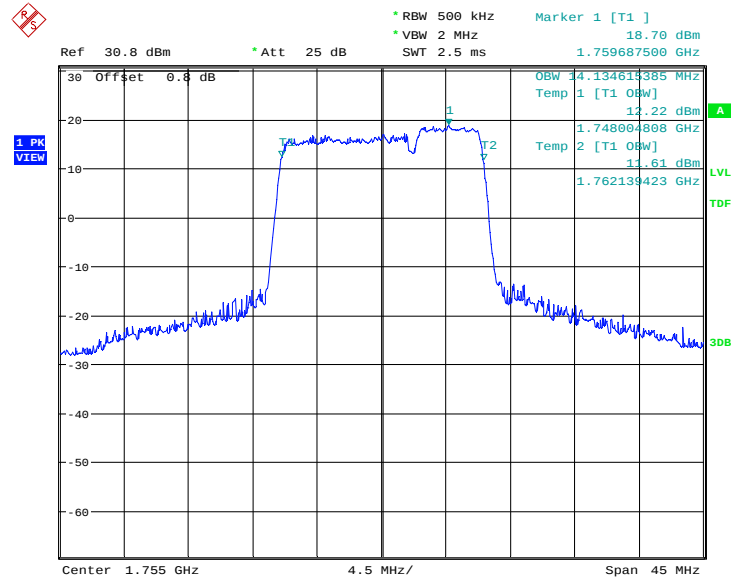


Date: 4.JUL.2022 15:35:05

LTE CA Band 66B, 10MHz+5MHz (99%)

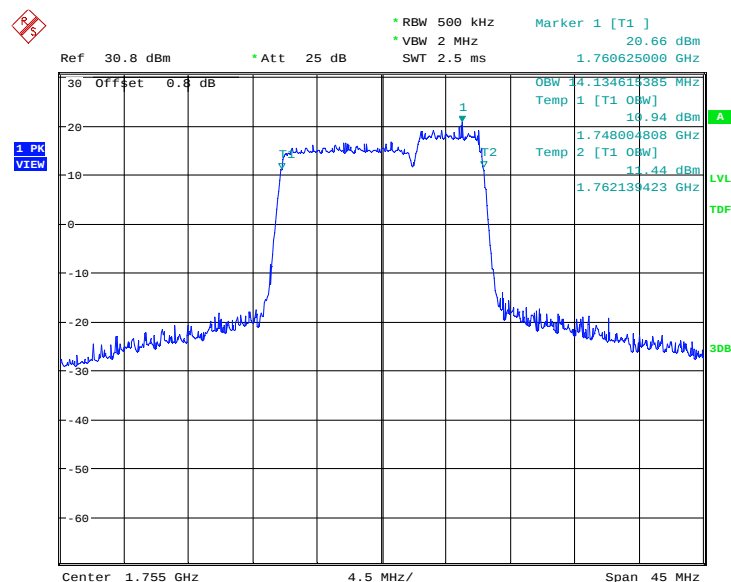
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	14.135	14.135

LTE CA Band 66B, 10MHz+5MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:36:10

LTE CA Band 66B, 10MHz+5MHz Bandwidth, 16QAM (99% BW)

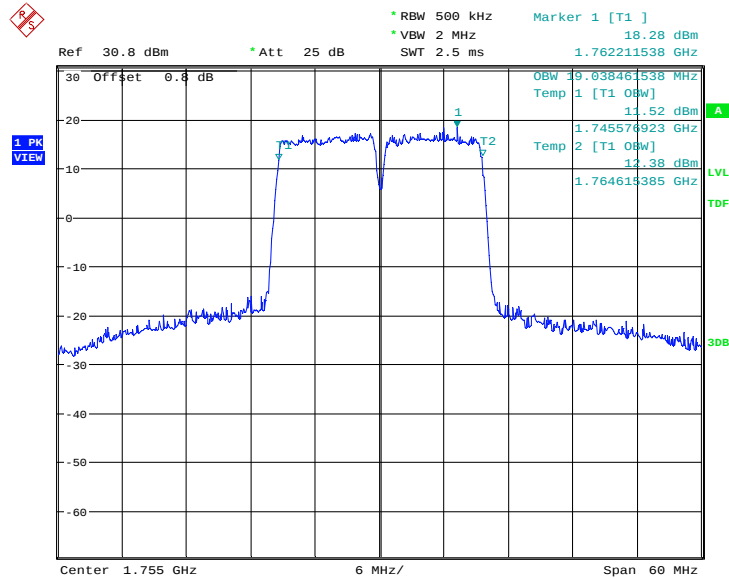


Date: 4.JUL.2022 15:36:34

LTE CA Band 66B, 10MHz+10MHz (99%)

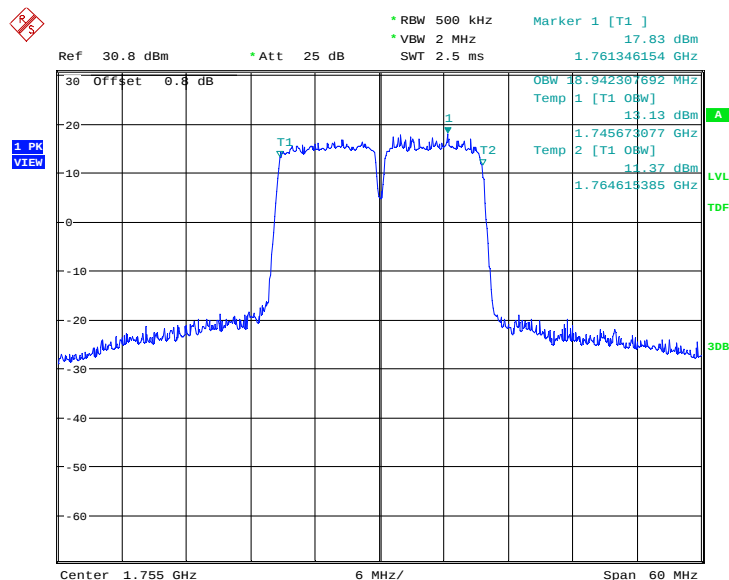
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	19.038	18.942

LTE CA Band 66B, 10MHz+10MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:37:29

LTE CA Band 66B, 10MHz+10MHz Bandwidth, 16QAM (99% BW)

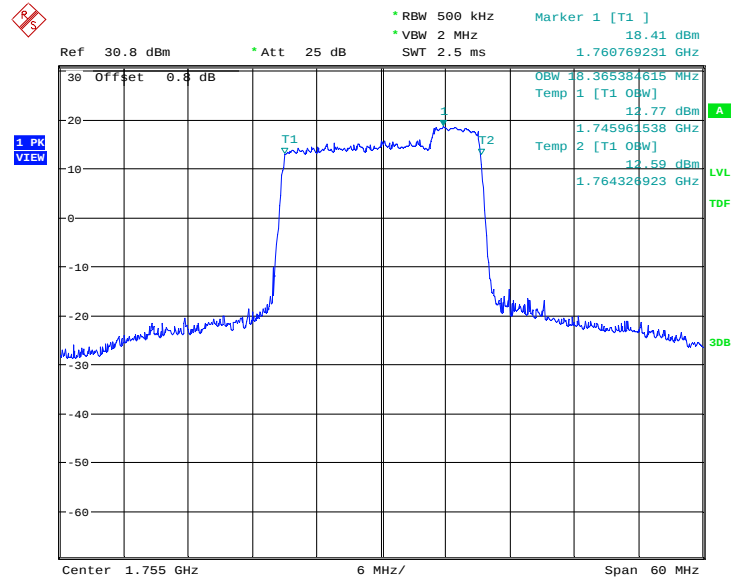


Date: 4.JUL.2022 15:37:53

LTE CA Band 66B, 15MHz+5MHz (99%)

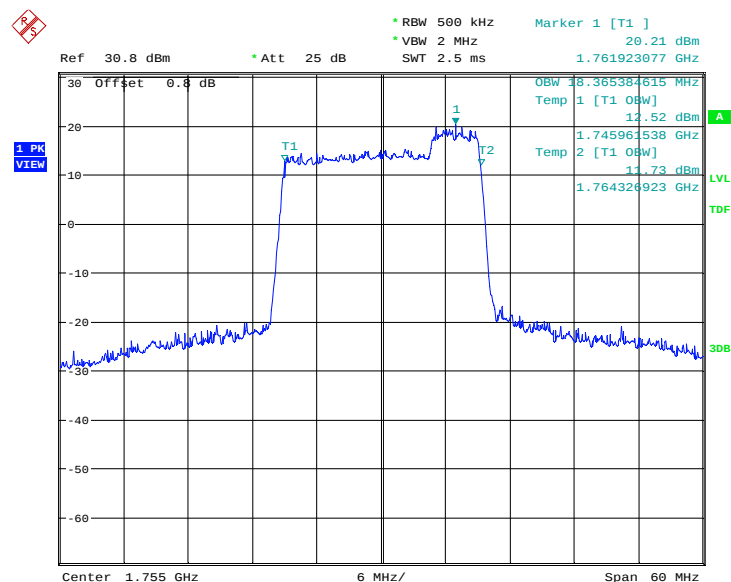
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	18.365	18.365

LTE CA Band 66B, 15MHz+5MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:38:50

LTE CA Band 66B, 15MHz+5MHz Bandwidth, 16QAM (99% BW)

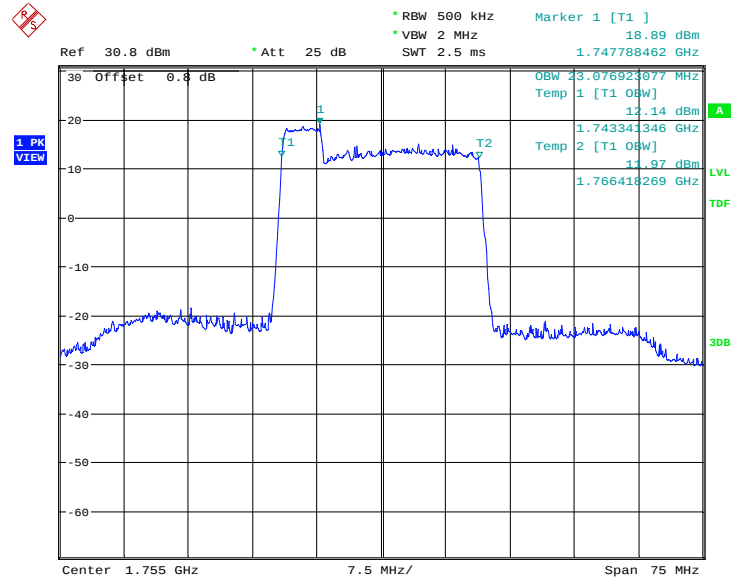


Date: 4.JUL.2022 15:39:13

LTE CA Band 66C, 5MHz+20MHz (99%)

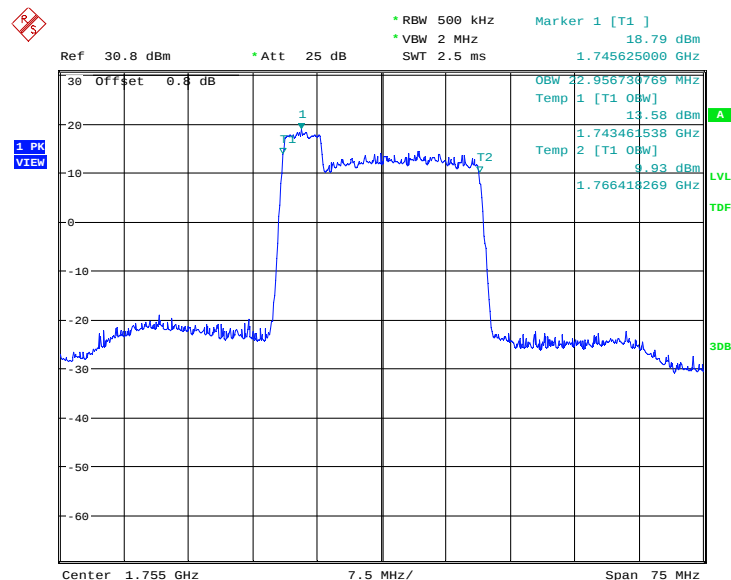
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	23.077	22.957

LTE CA Band 66C, 5MHz+20MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:40:18

LTE CA Band 66C, 5MHz+20MHz Bandwidth, 16QAM (99% BW)

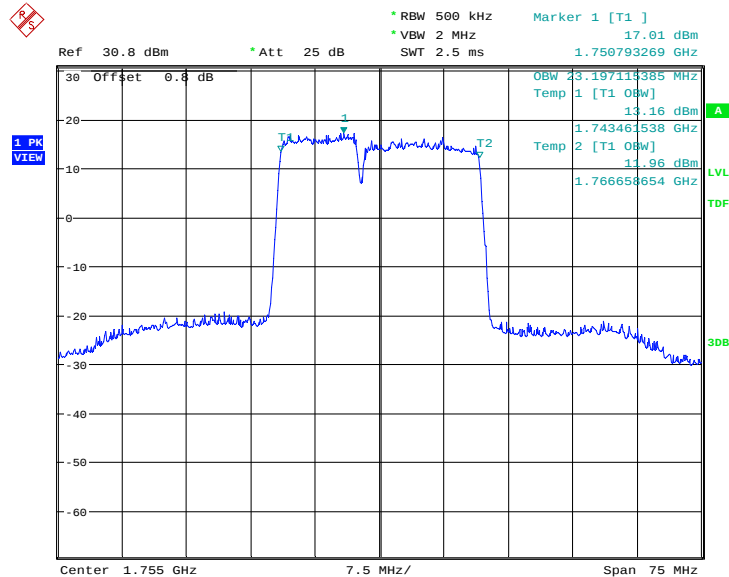


Date: 4.JUL.2022 15:40:44

LTE CA Band 66C, 10MHz+15MHz (99%)

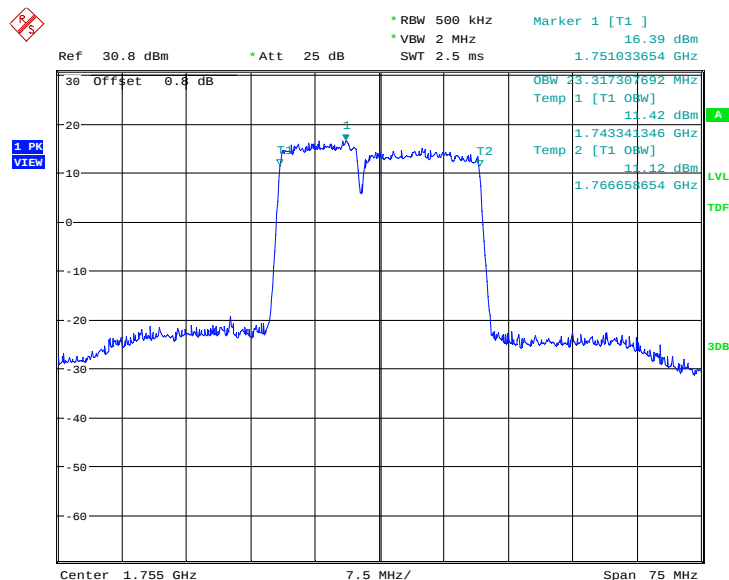
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	23.197	23.317

LTE CA Band 66C, 10MHz+15MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:41:50

LTE CA Band 66C, 10MHz+15MHz Bandwidth, 16QAM (99% BW)

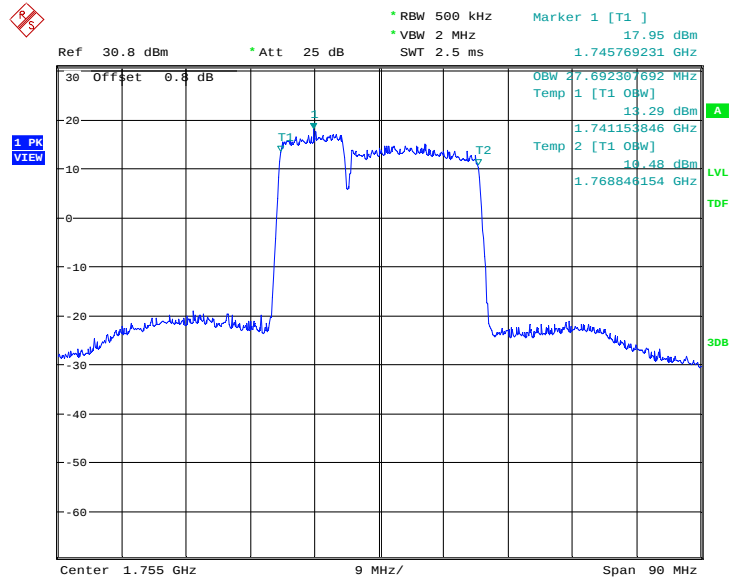


Date: 4.JUL.2022 15:42:13

LTE CA Band 66C, 10MHz+20MHz (99%)

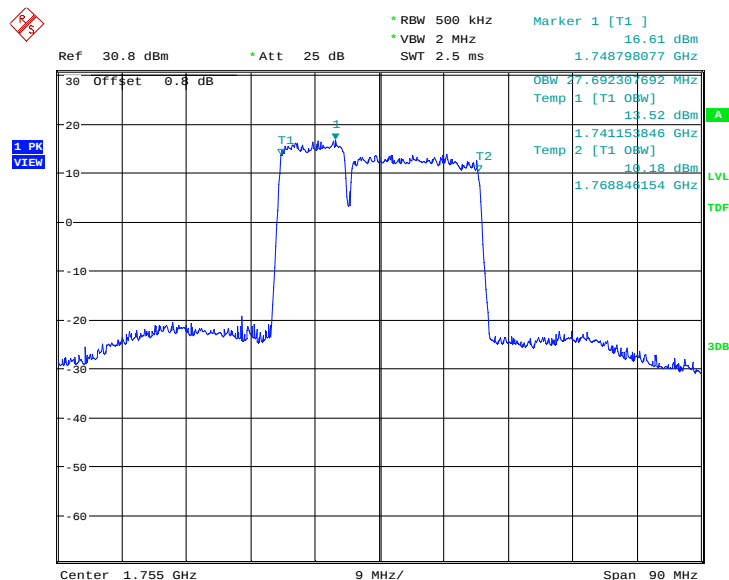
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	27.692	27.692

LTE CA Band 66C, 10MHz+20MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:43:09

LTE CA Band 66C, 10MHz+20MHz Bandwidth, 16QAM (99% BW)

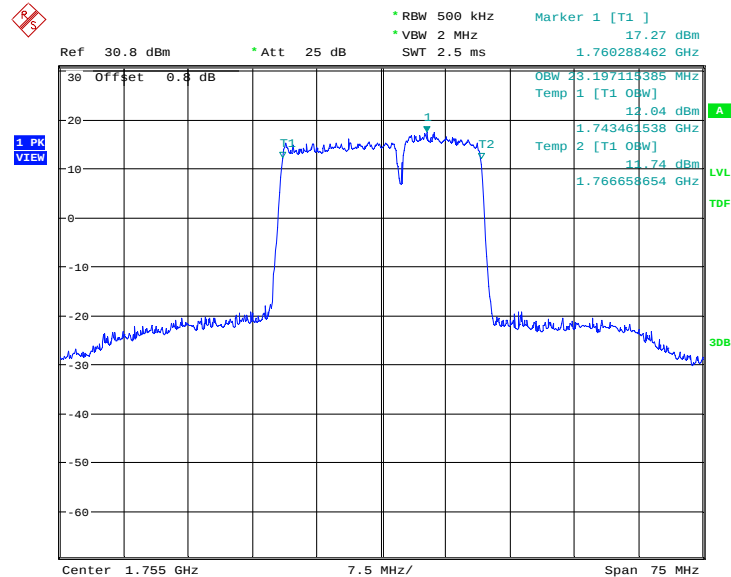


Date: 4.JUL.2022 15:43:32

LTE CA Band 66C, 15MHz+10MHz (99%)

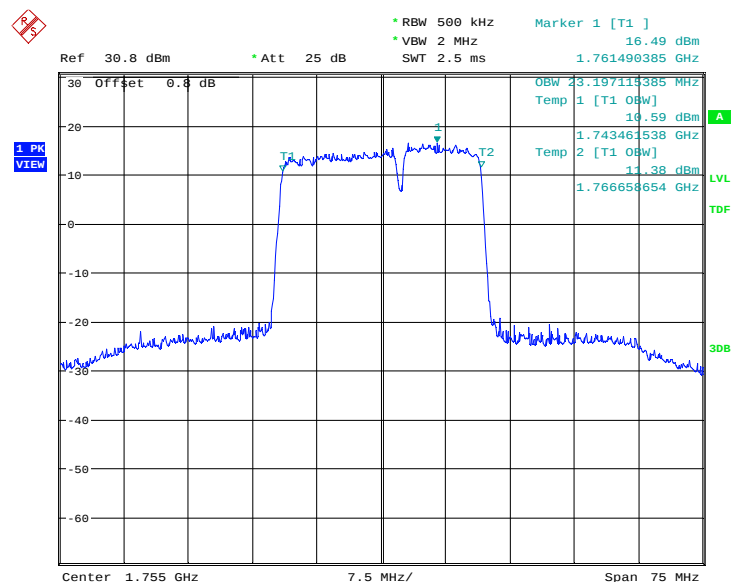
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	23.197	23.197

LTE CA Band 66C, 15MHz+10MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:44:30

LTE CA Band 66C, 15MHz+10MHz Bandwidth, 16QAM (99% BW)

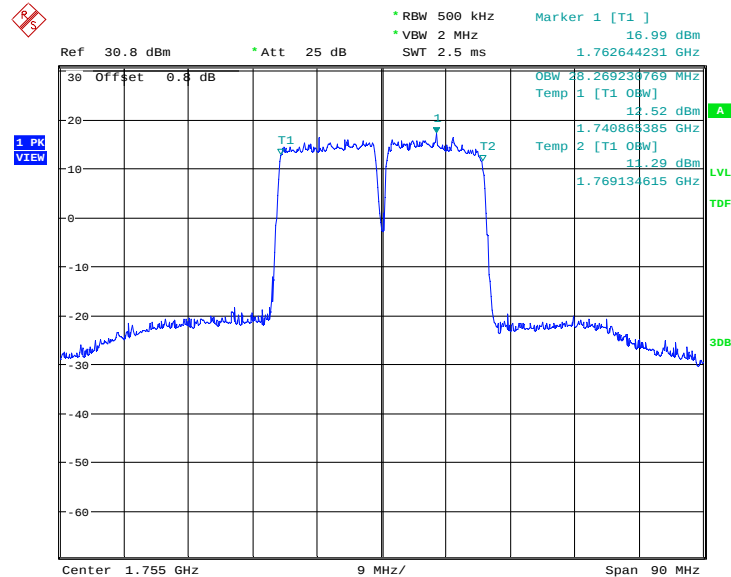


Date: 4.JUL.2022 15:44:53

LTE CA Band 66C, 15MHz+15MHz (99%)

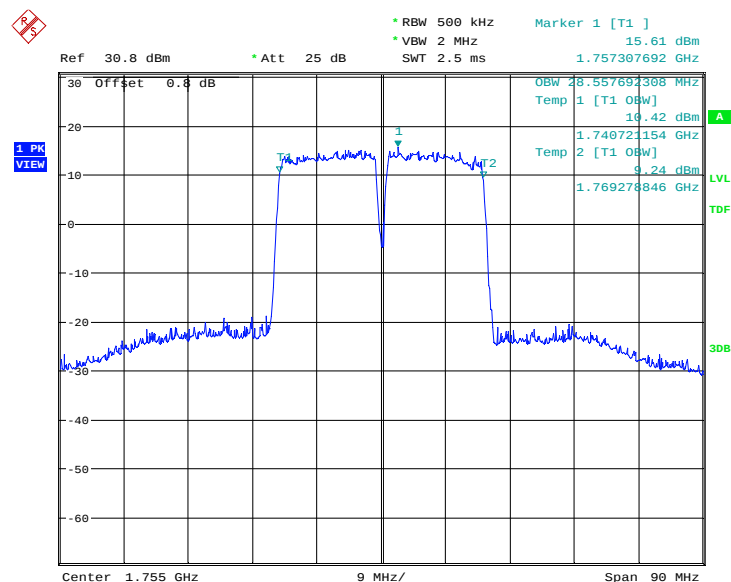
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	28.269	28.558

LTE CA Band 66C, 15MHz+15MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:45:49

LTE CA Band 66C, 15MHz+15MHz Bandwidth, 16QAM (99% BW)

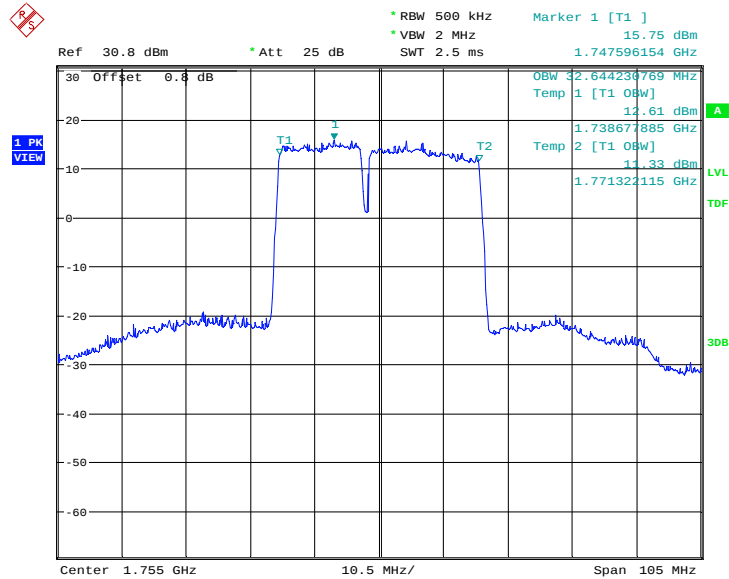


Date: 4.JUL.2022 15:46:12

LTE CA Band 66C, 15MHz+20MHz (99%)

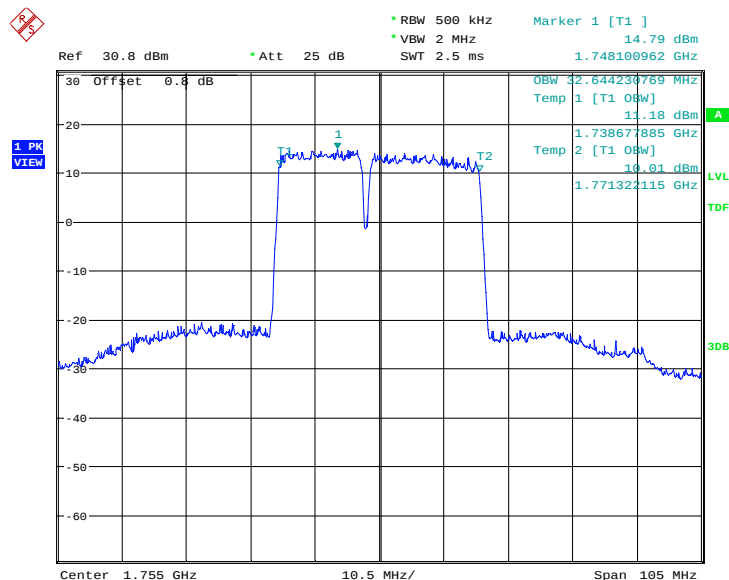
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	32.644	32.644

LTE CA Band 66C, 15MHz+20MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:47:08

LTE CA Band 66C, 15MHz+20MHz Bandwidth, 16QAM (99% BW)

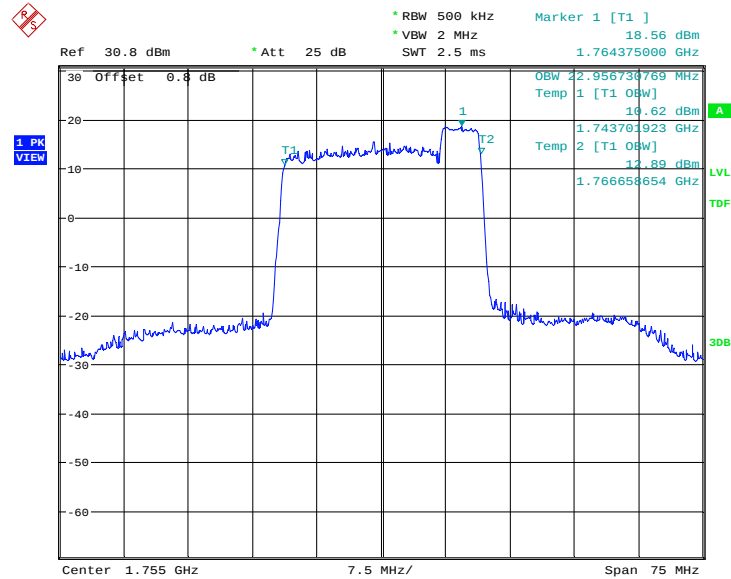


Date: 4.JUL.2022 15:47:34

LTE CA Band 66C, 20MHz+5MHz (99%)

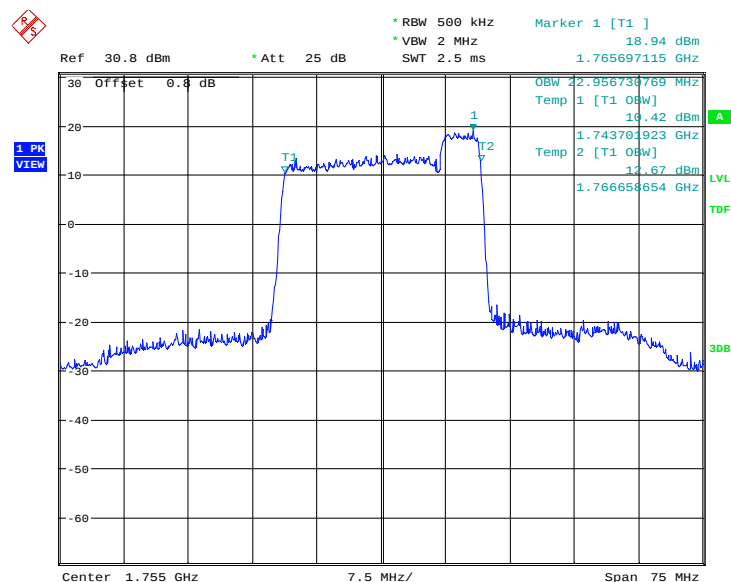
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	22.957	22.957

LTE CA Band 66C, 20MHz+5MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:48:31

LTE CA Band 66C, 20MHz+5MHz Bandwidth, 16QAM (99% BW)

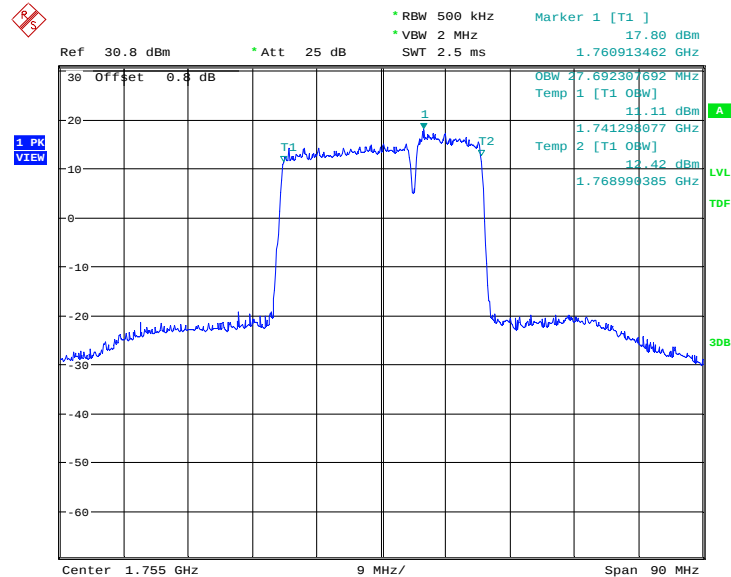


Date: 4.JUL.2022 15:48:54

LTE CA Band 66C, 20MHz+10MHz (99%)

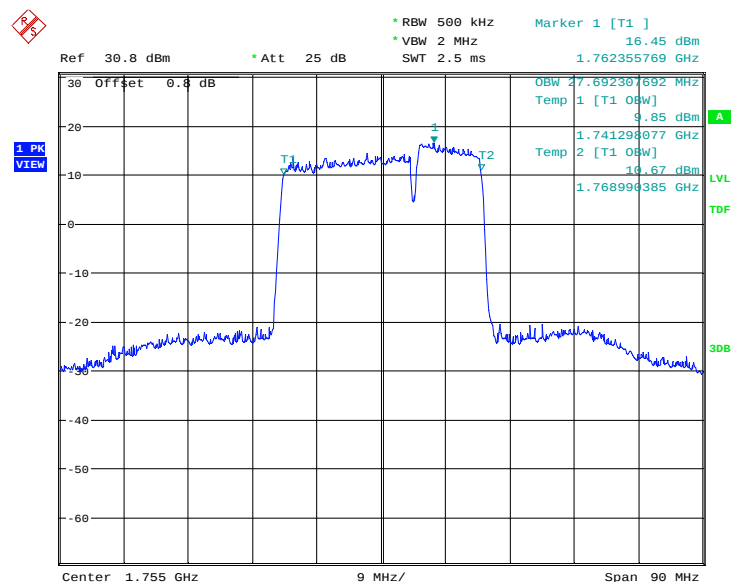
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	27.692	27.692

LTE CA Band 66C, 20MHz+10MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:49:51

LTE CA Band 66C, 20MHz+10MHz Bandwidth, 16QAM (99% BW)

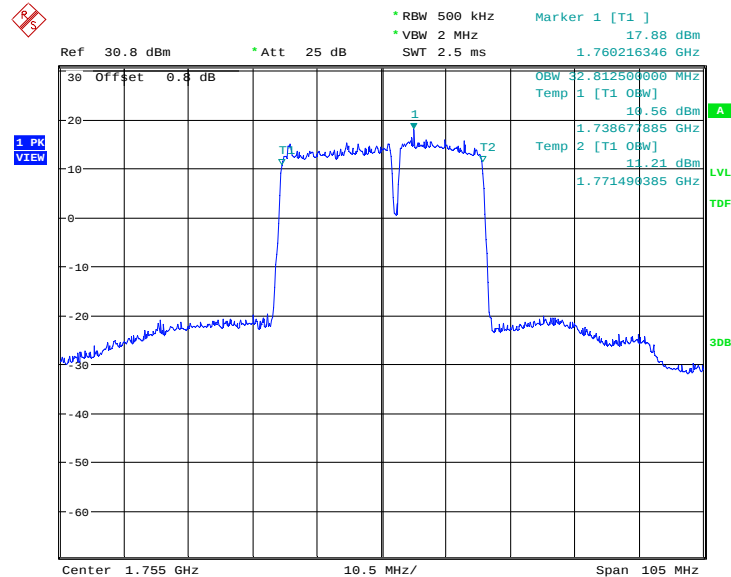


Date: 4.JUL.2022 15:50:14

LTE CA Band 66C, 20MHz+15MHz (99%)

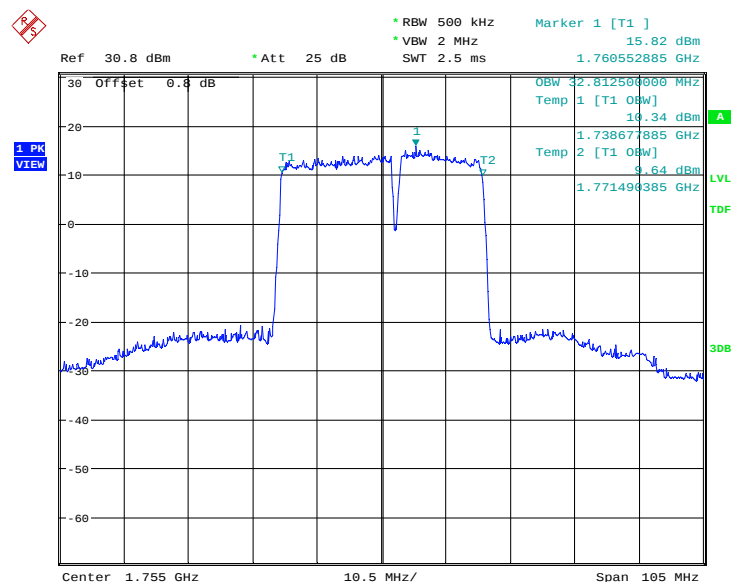
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	32.812	32.812

LTE CA Band 66C, 20MHz+15MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:51:10

LTE CA Band 66C, 20MHz+15MHz Bandwidth, 16QAM (99% BW)

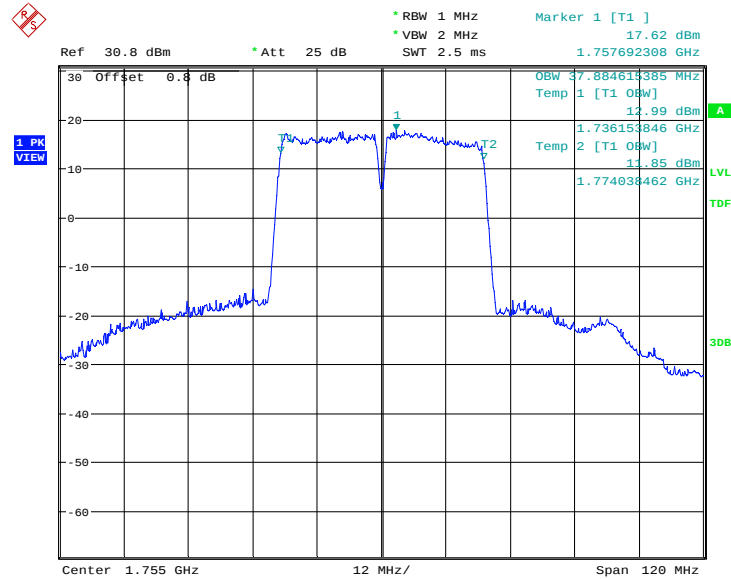


Date: 4.JUL.2022 15:51:33

LTE CA Band 66C, 20MHz+20MHz (99%)

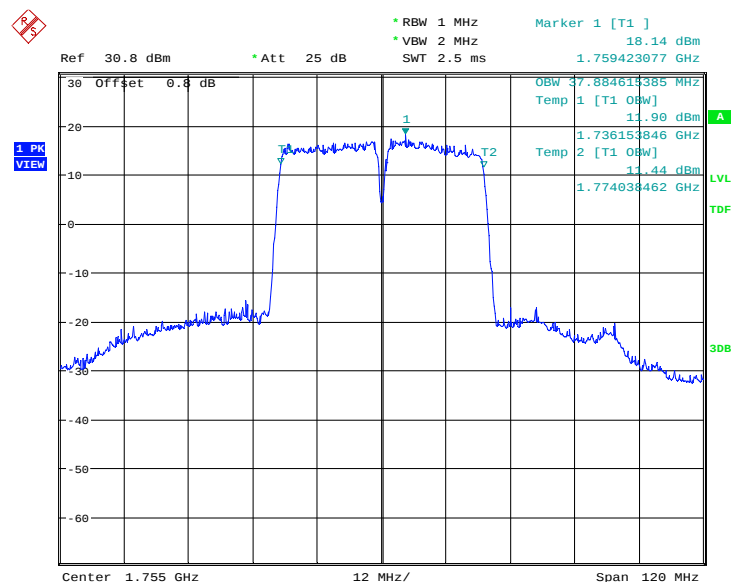
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755	37.885	37.885

LTE CA Band 66C, 20MHz+20MHz Bandwidth, QPSK (99% BW)



Date: 4.JUL.2022 15:52:30

LTE CA Band 66C, 20MHz+20MHz Bandwidth, 16QAM (99% BW)



Date: 4.JUL.2022 15:52:53

A.5 Emission Bandwidth

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

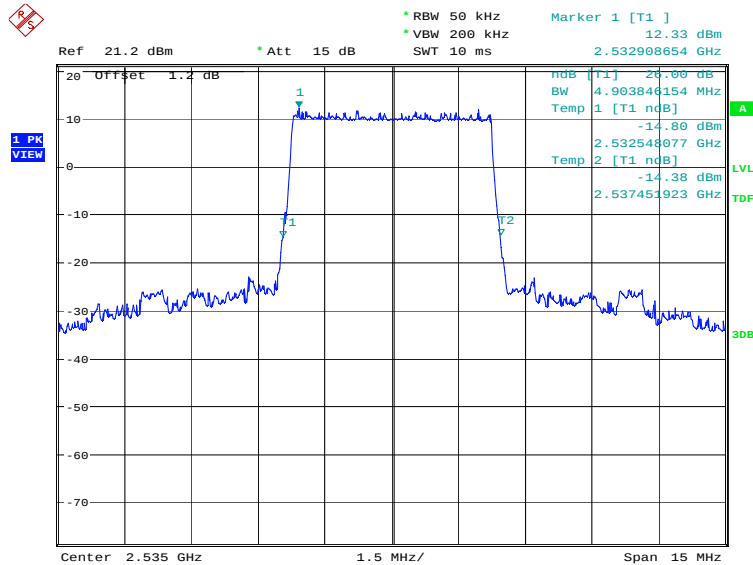
The measurement method is from ANSI C63.26:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

LTE band 7, 5MHz (-26dBc)

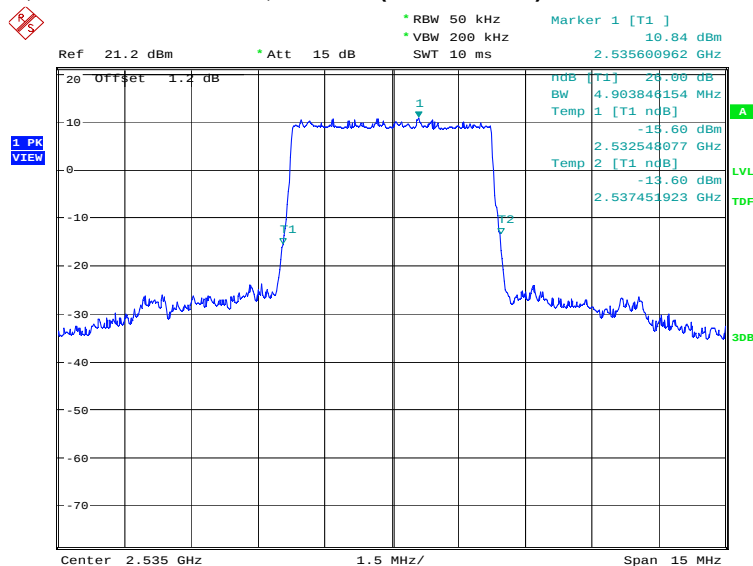
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	4903.85	4903.85

LTE band 7, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 11.JUL.2022 15:08:09

LTE band 7, 5MHz Bandwidth,16QAM (-26dBc BW)

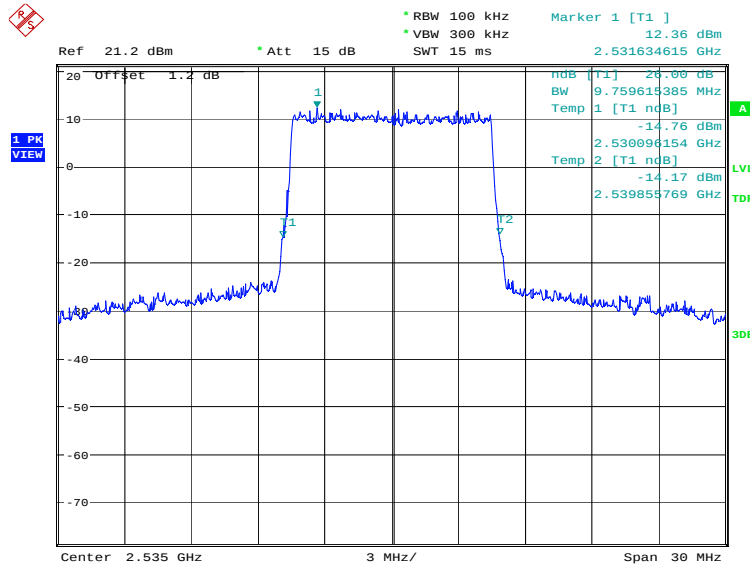


Date: 11.JUL.2022 15:08:49

LTE band 7, 10MHz (-26dBc)

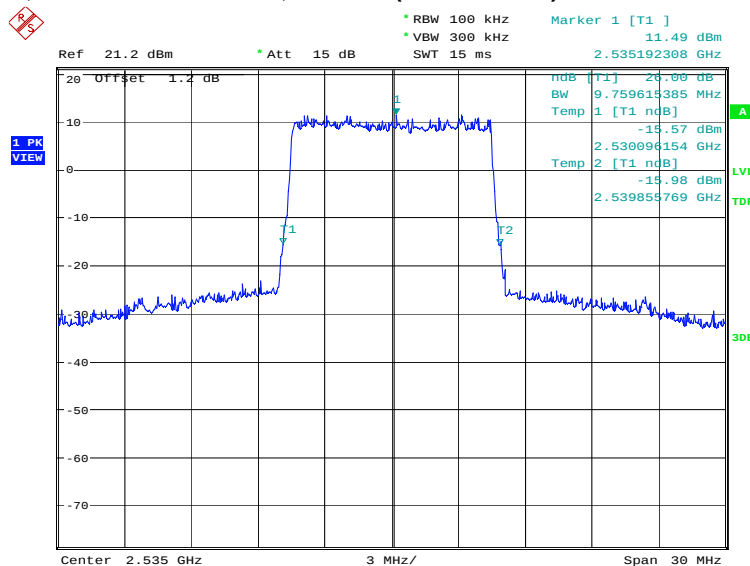
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	9759.62	9759.62

LTE band 7, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 11.JUL.2022 15:09:33

LTE band 7, 10MHz Bandwidth, 16QAM (-26dBc BW)

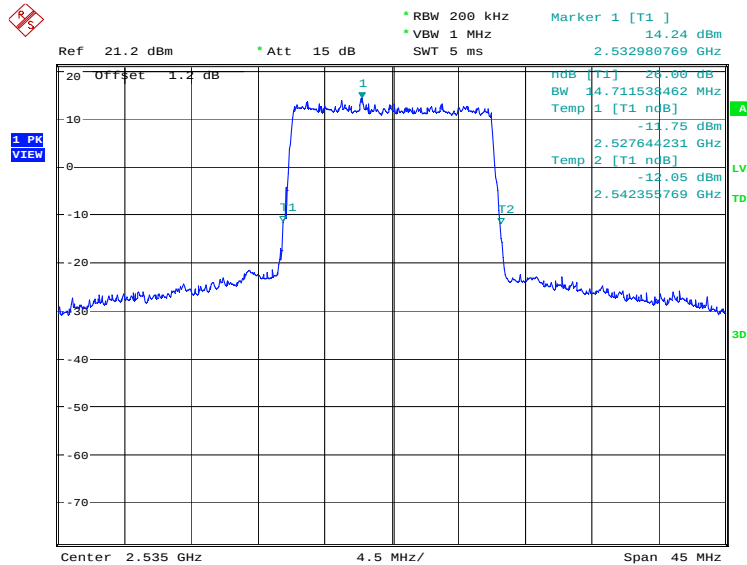


Date: 11.JUL.2022 15:10:12

LTE band 7, 15MHz (-26dBc)

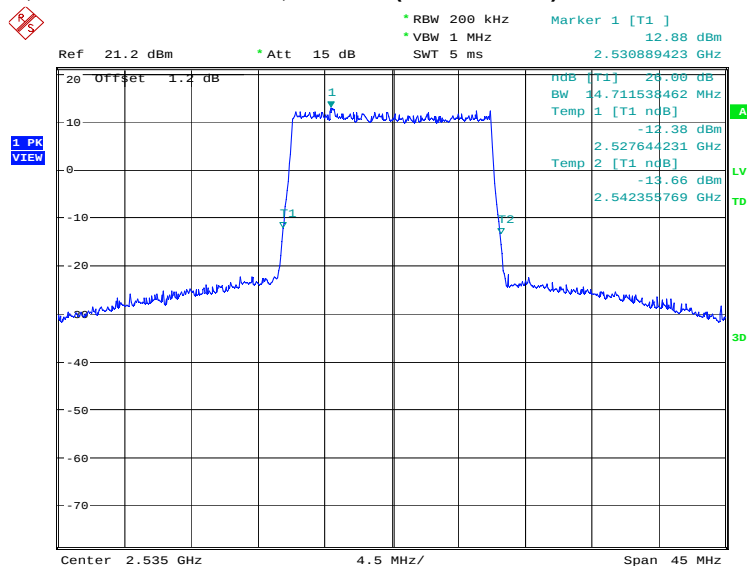
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	14711.54	14711.54

LTE band 7, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 11.JUL.2022 15:10:56

LTE band 7, 15MHz Bandwidth,16QAM (-26dBc BW)

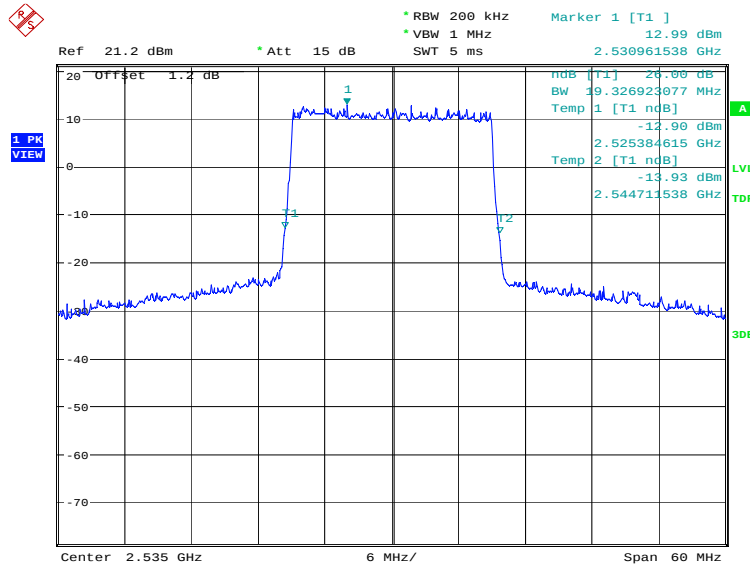


Date: 11.JUL.2022 15:11:35

LTE band 7, 20MHz (-26dBc)

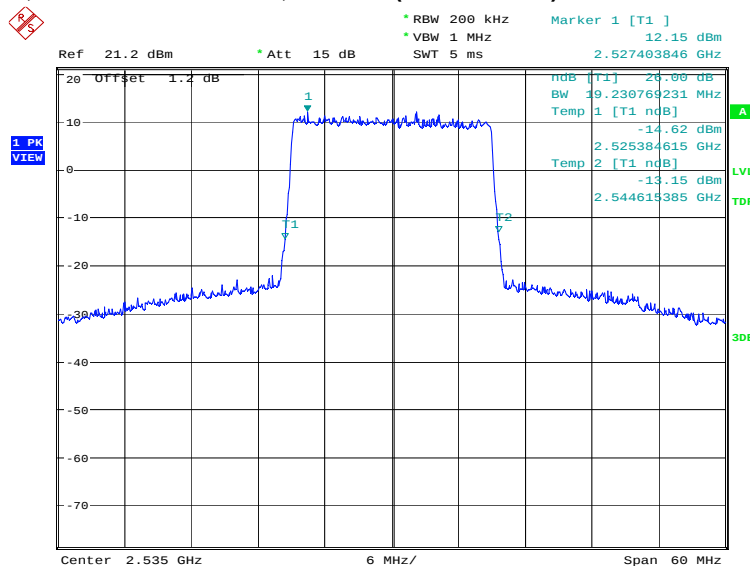
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	19326.92	19230.77

LTE band 7, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 11.JUL.2022 15:12:19

LTE band 7, 20MHz Bandwidth, 16QAM (-26dBc BW)

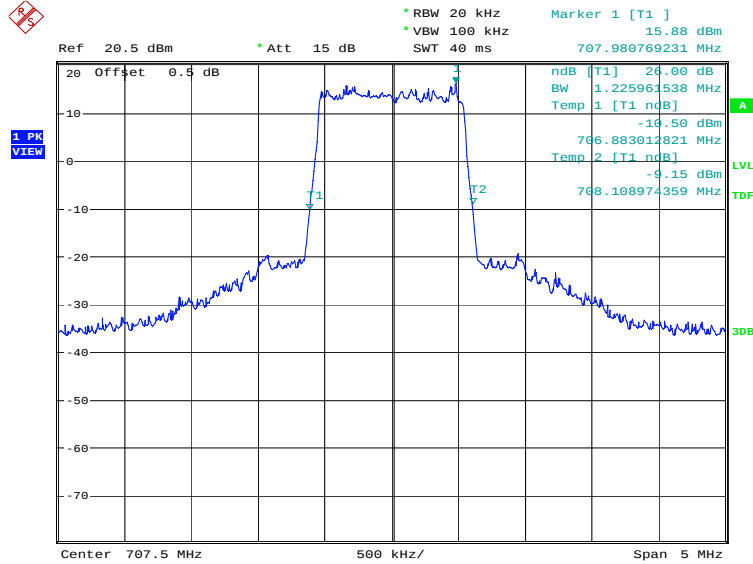


Date: 11.JUL.2022 15:12:59

LTE band 12, 1.4MHz (-26dBc)

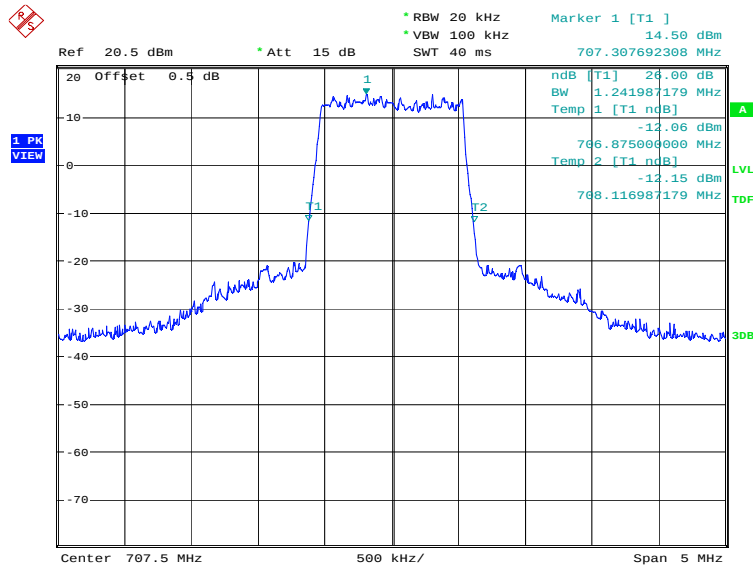
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	1225.96	1241.99

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



Date: 6. JUN.2022 19:28:46

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

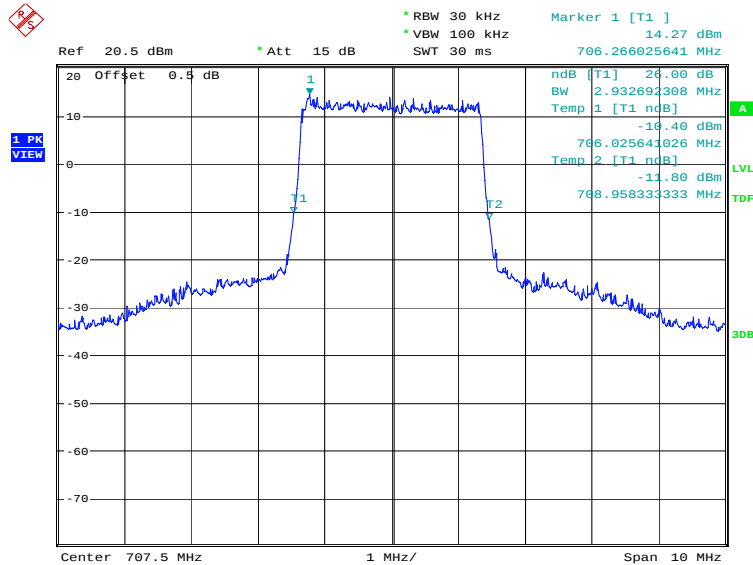


Date: 6. JUN.2022 19:29:26

LTE band 12, 3MHz (-26dBc)

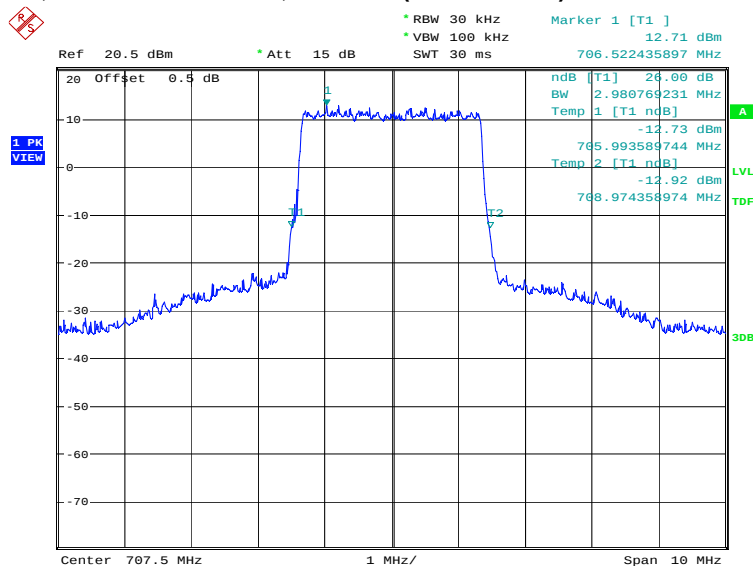
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	2932.69	2980.77

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



Date: 6. JUN.2022 19:30:09

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

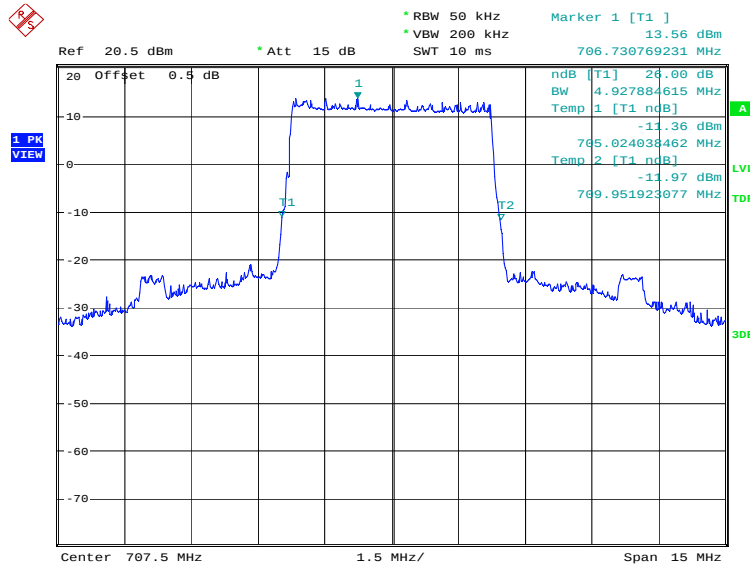


Date: 6. JUN.2022 19:30:49

LTE band 12, 5MHz (-26dBc)

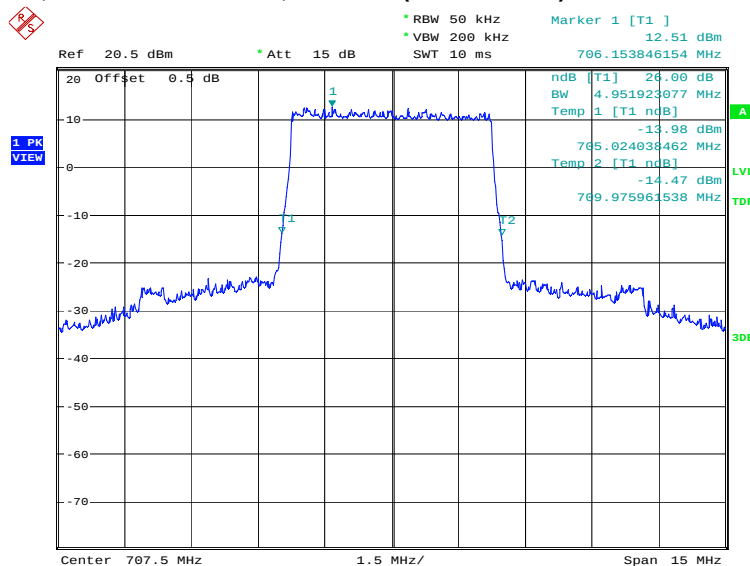
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	4927.88	4951.92

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



Date: 6. JUN.2022 19:31:32

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

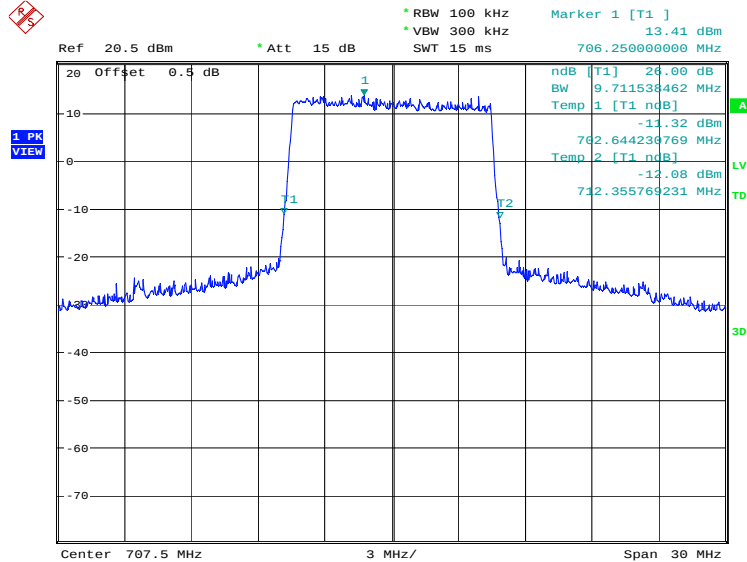


Date: 6. JUN.2022 19:32:12

LTE band 12, 10MHz (-26dBc)

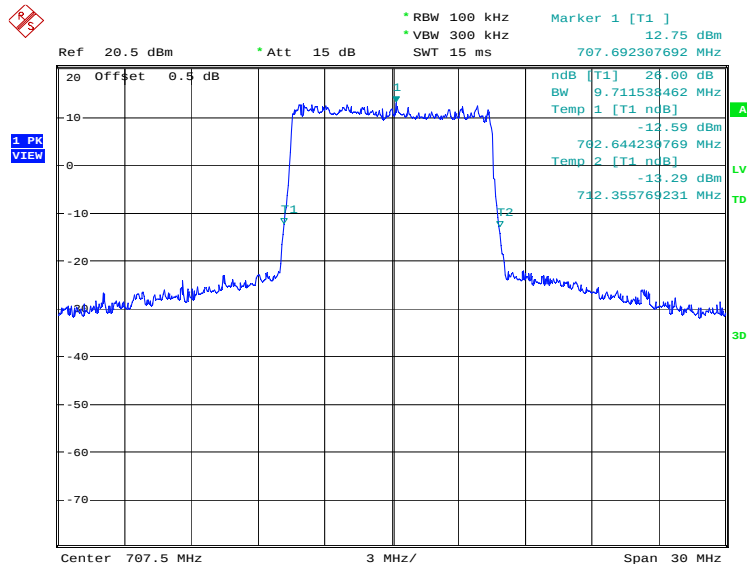
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	9711.54	9711.54

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



Date: 6. JUN.2022 19:32:56

LTE band 12, 10MHz Bandwidth, 16QAM (-26dBc BW)

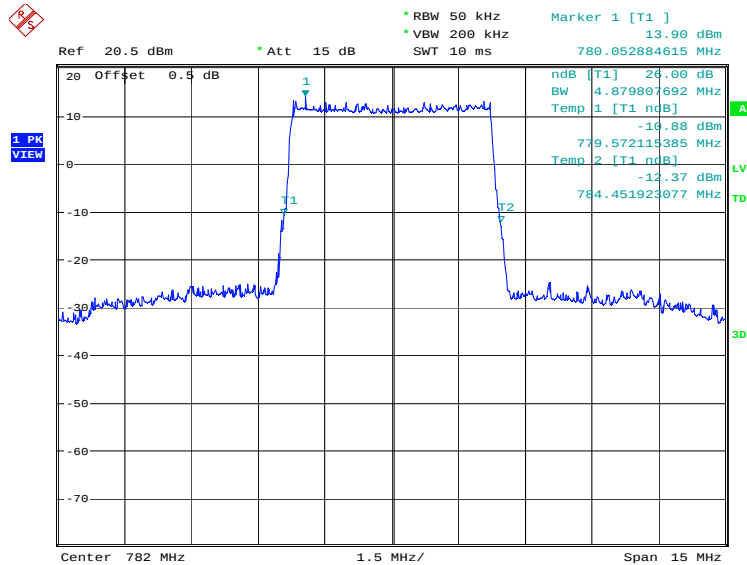


Date: 6. JUN.2022 19:33:36

LTE band 13, 5MHz (-26dBc)

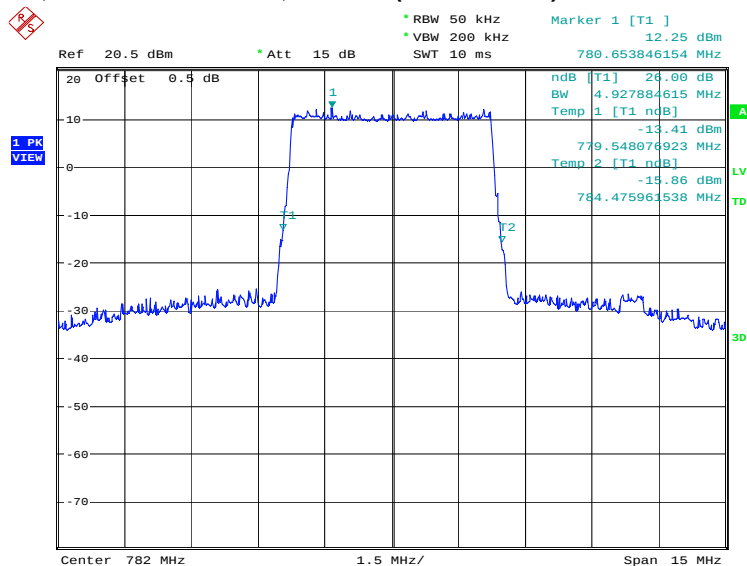
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	4879.81	4927.88

LTE band 13, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:34:23

LTE band 13, 5MHz Bandwidth,16QAM (-26dBc BW)

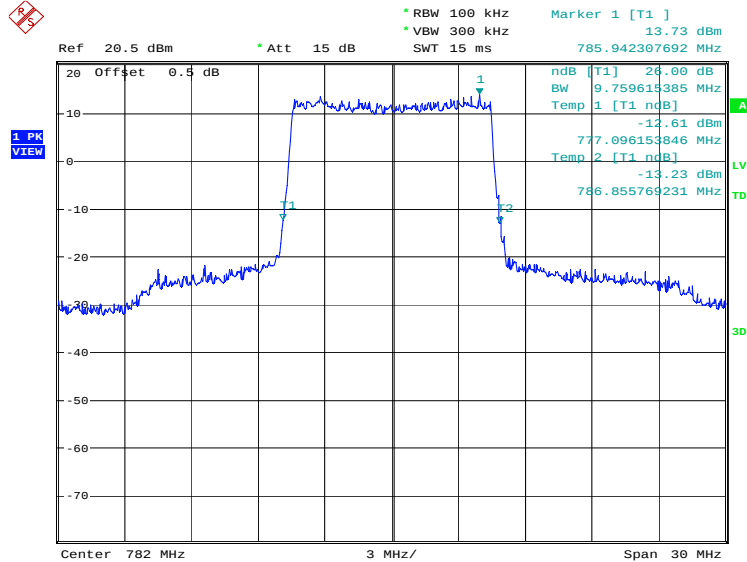


Date: 6. JUN.2022 19:35:03

LTE band 13, 10MHz (-26dBc)

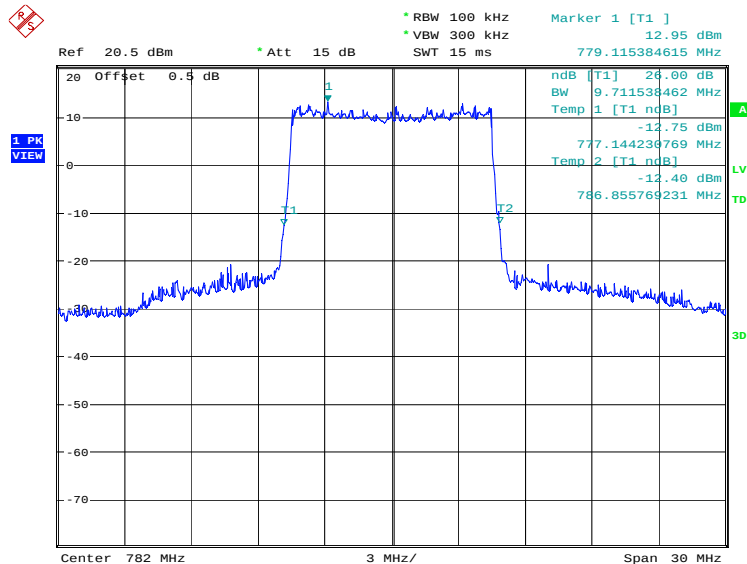
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	9759.62	9711.54

LTE band 13, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:35:46

LTE band 13, 10MHz Bandwidth,16QAM (-26dBc BW)

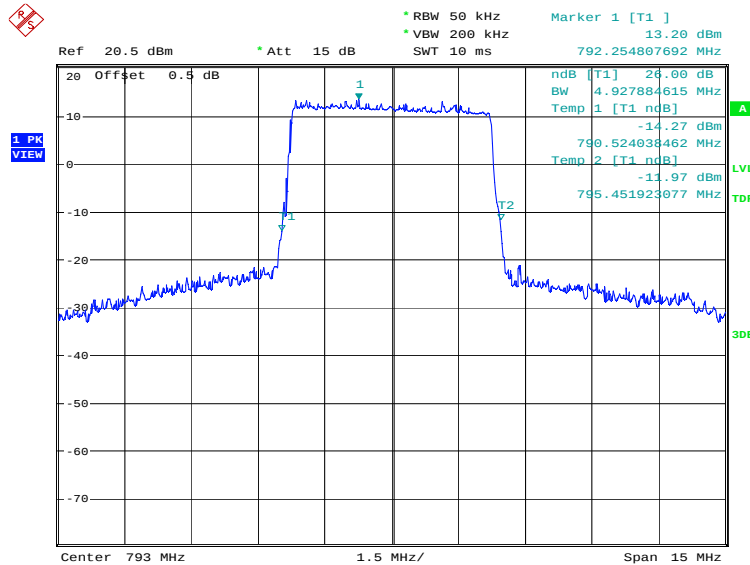


Date: 6. JUN.2022 19:36:26

LTE band 14, 5MHz (-26dBc)

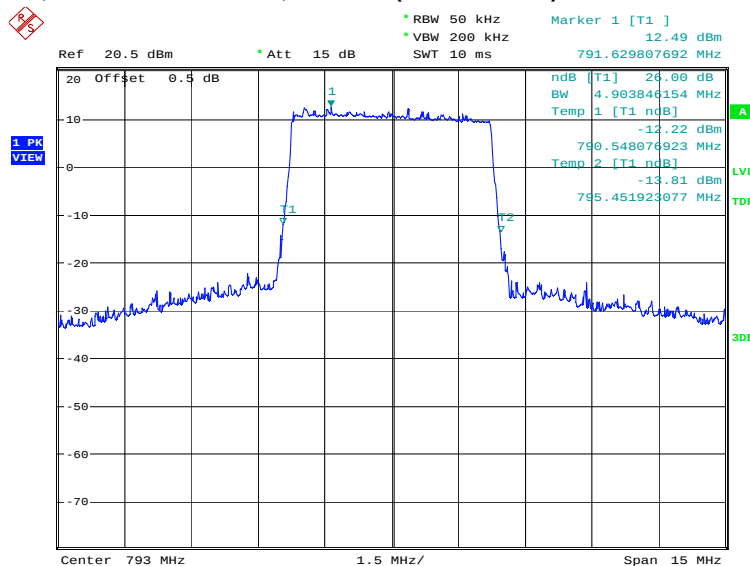
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
793.0	QPSK	16QAM
	4927.88	4903.85

LTE band 14, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:37:12

LTE band 14, 5MHz Bandwidth,16QAM (-26dBc BW)

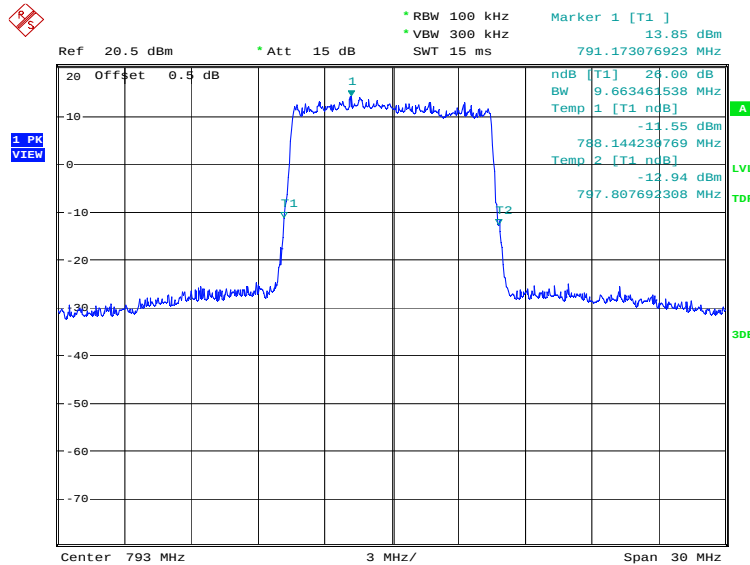


Date: 6. JUN.2022 19:37:52

LTE band 14, 10MHz (-26dBc)

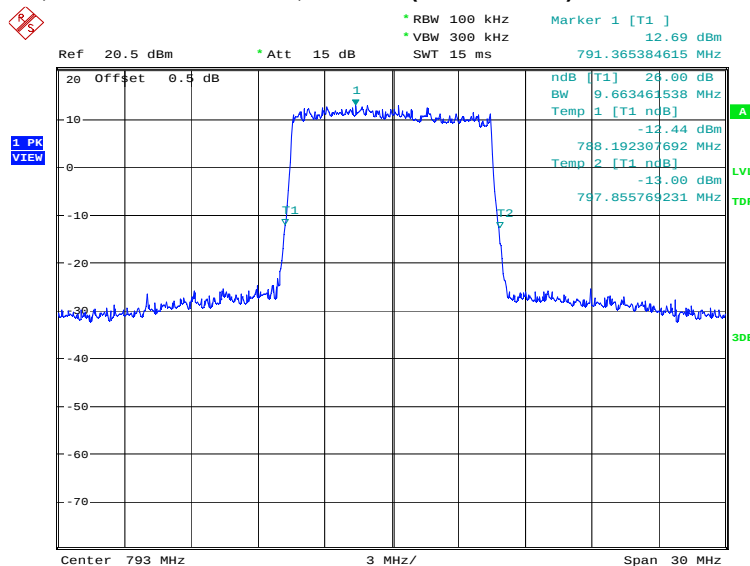
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
793.0	QPSK	16QAM
	9663.46	9663.46

LTE band 14, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:38:35

LTE band 14, 10MHz Bandwidth, 16QAM (-26dBc BW)

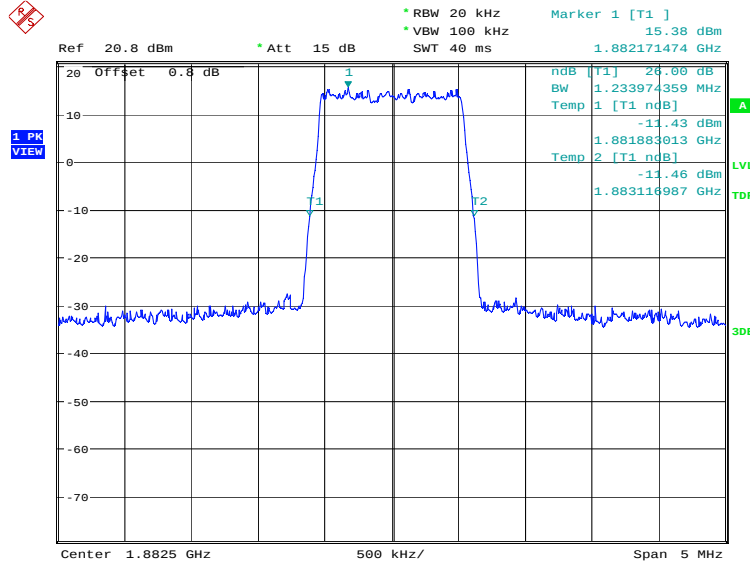


Date: 6. JUN.2022 19:39:15

LTE band 25, 1.4MHz (-26dBc)

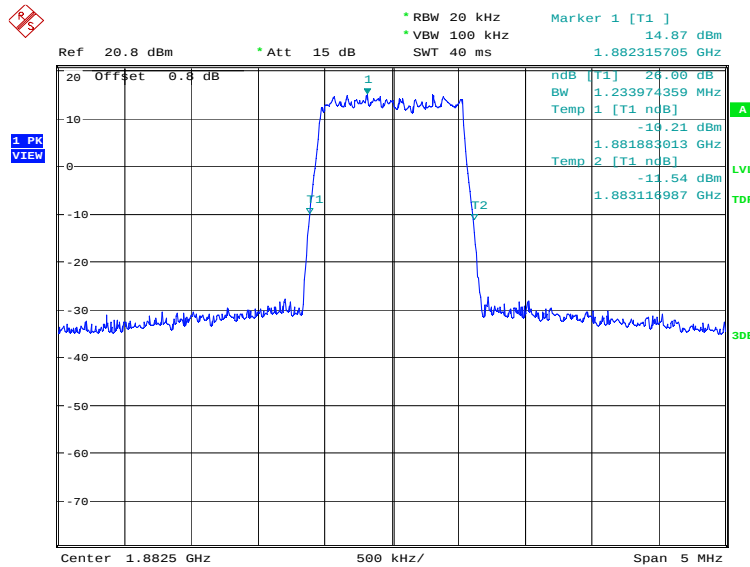
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	1233.97	1233.97

LTE band 25, 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:40:02

LTE band 25, 1.4MHz Bandwidth, 16QAM (-26dBc BW)

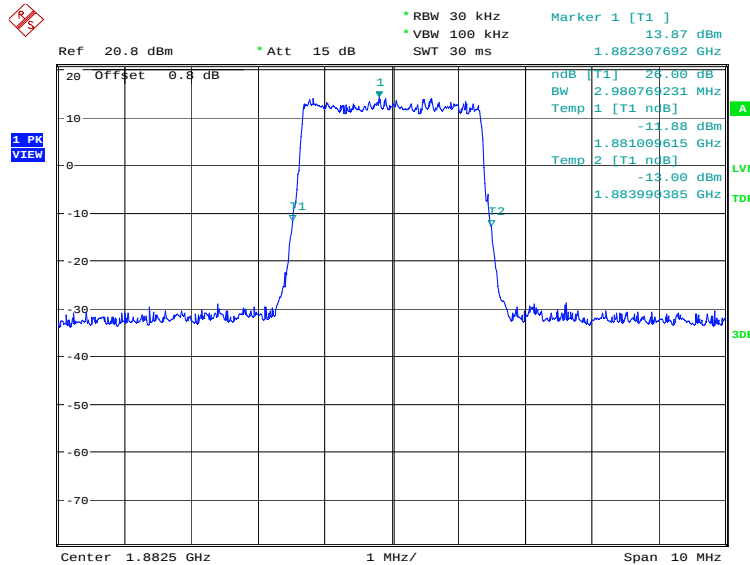


Date: 6. JUN.2022 19:40:42

LTE band 25, 3MHz (-26dBc)

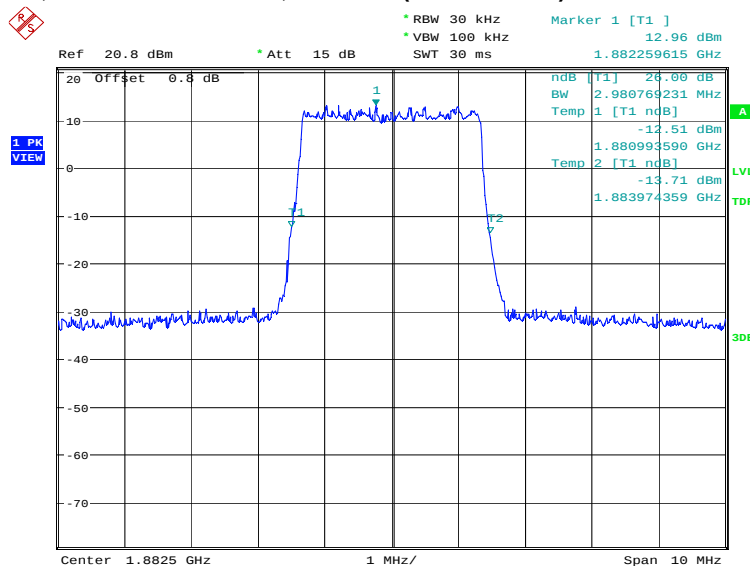
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	2980.77	2980.77

LTE band 25, 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:41:25

LTE band 25, 3MHz Bandwidth, 16QAM (-26dBc BW)

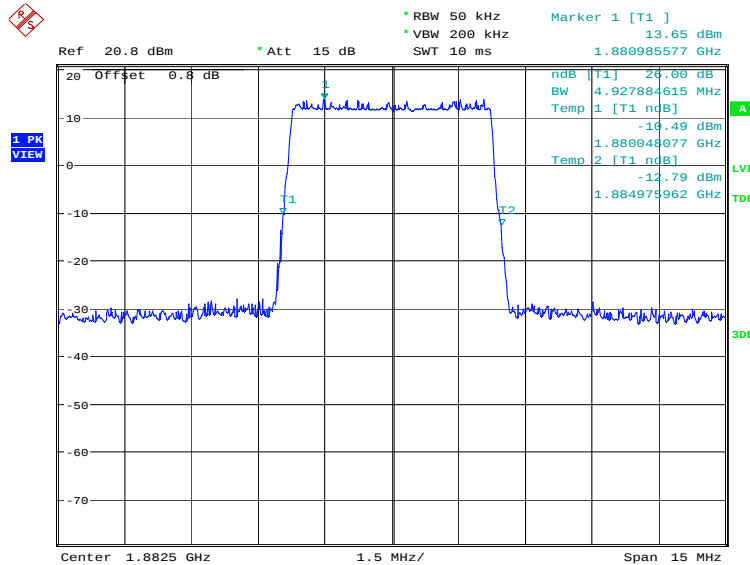


Date: 6. JUN.2022 19:42:05

LTE band 25, 5MHz (-26dBc)

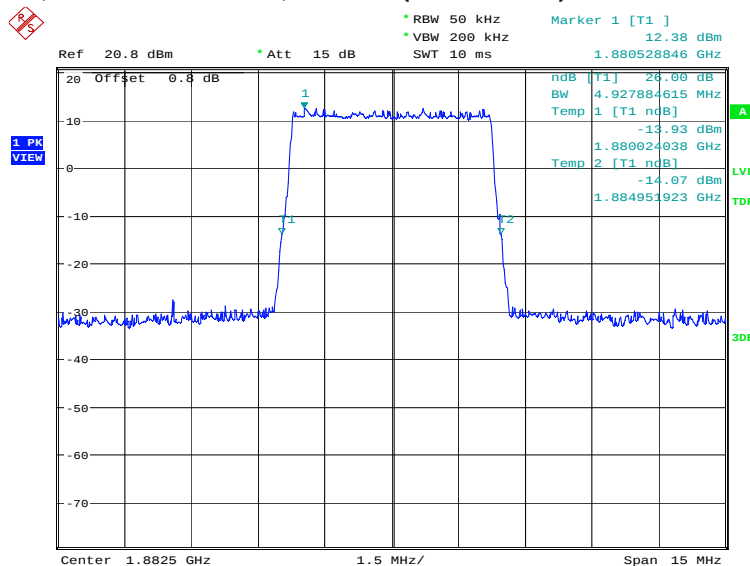
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	4927.88	4927.88

LTE band 25, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:42:48

LTE band 25, 5MHz Bandwidth, 16QAM (-26dBc BW)

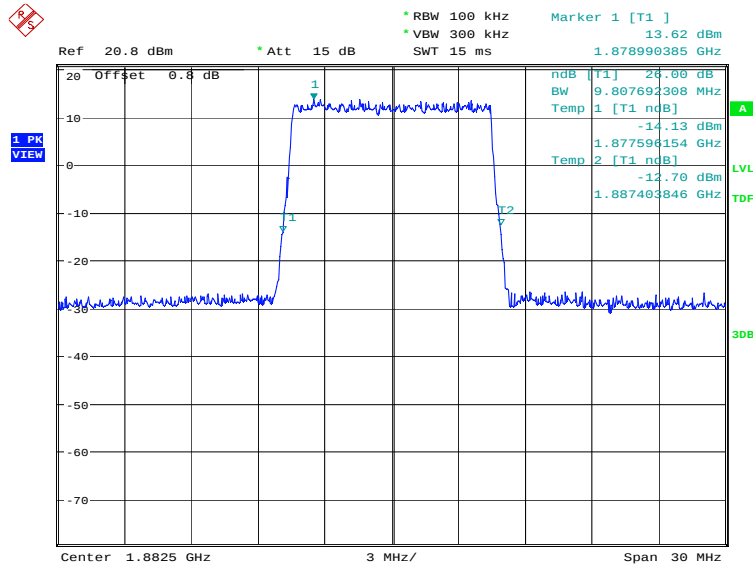


Date: 6. JUN.2022 19:43:28

LTE band 25, 10MHz (-26dBc)

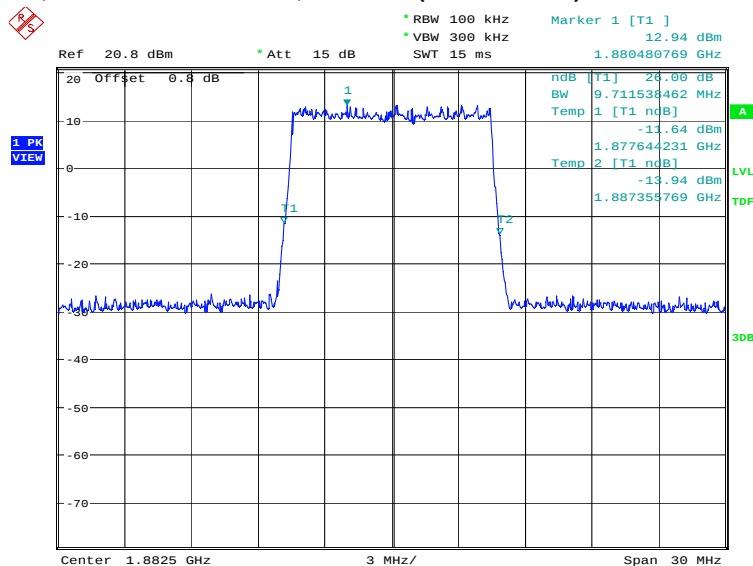
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	9807.69	9711.54

LTE band 25, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:44:11

LTE band 25, 10MHz Bandwidth, 16QAM (-26dBc BW)

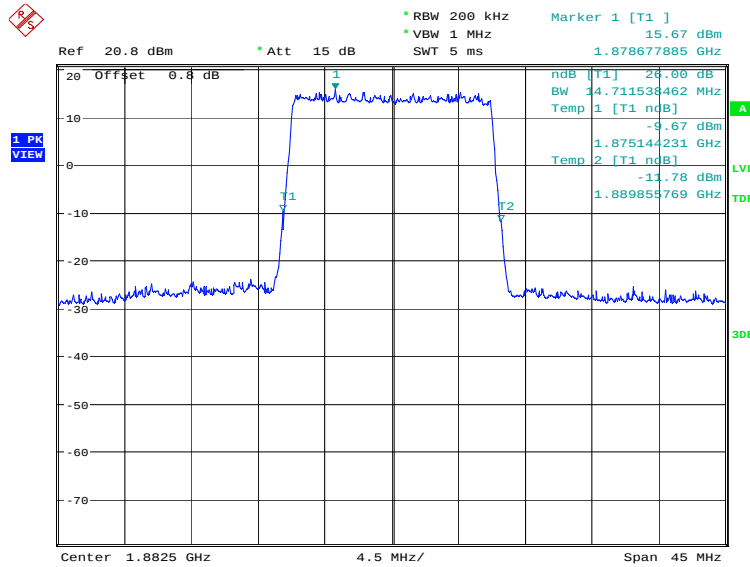


Date: 6. JUN.2022 19:44:51

LTE band 25, 15MHz (-26dBc)

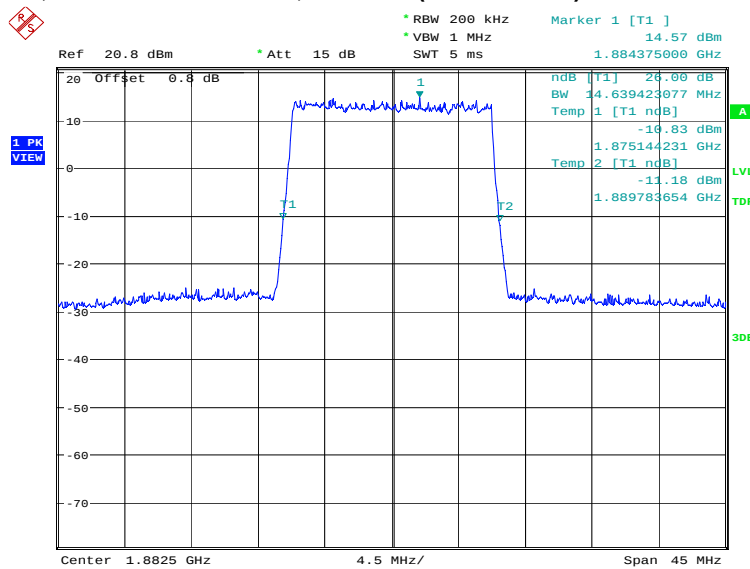
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	14711.54	14639.42

LTE band 25, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:45:35

LTE band 25, 15MHz Bandwidth, 16QAM (-26dBc BW)

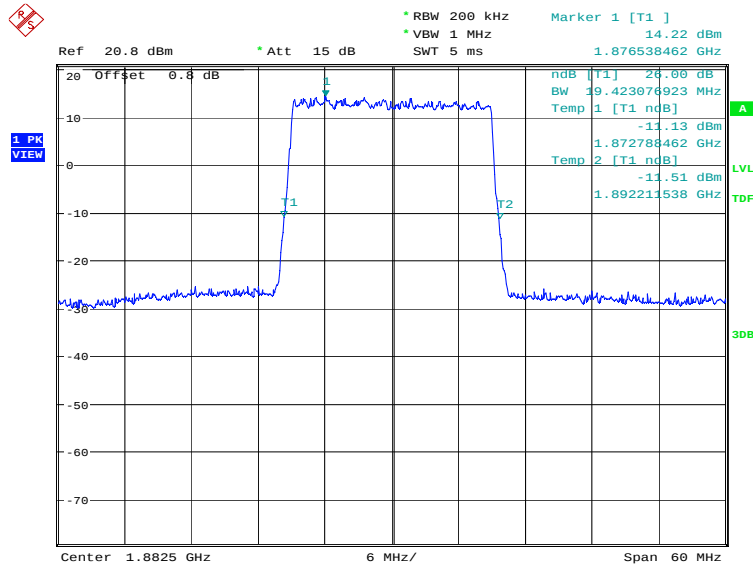


Date: 6. JUN.2022 19:46:15

LTE band 25, 20MHz (-26dBc)

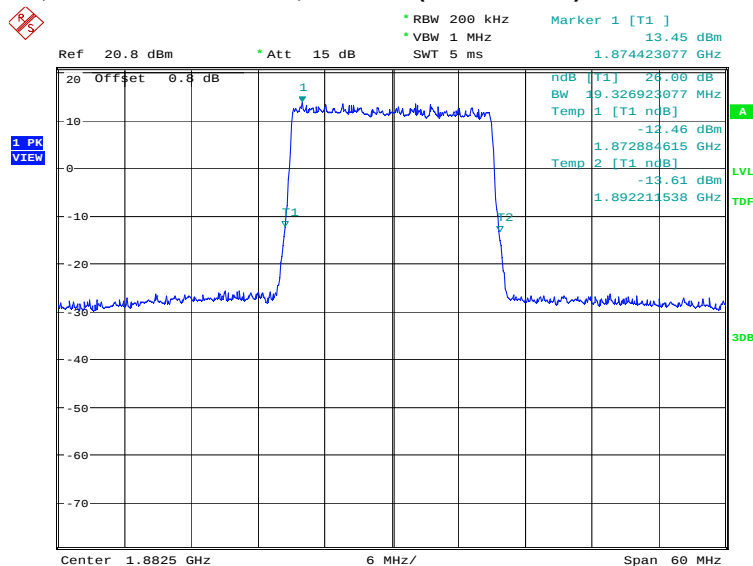
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	19423.08	19326.92

LTE band 25, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:46:58

LTE band 25, 20MHz Bandwidth, 16QAM (-26dBc BW)

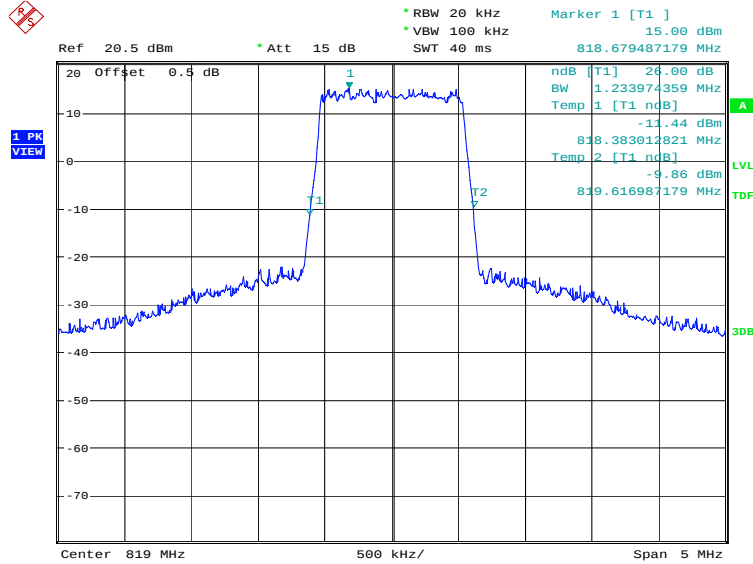


Date: 6. JUN.2022 19:47:38

LTE band 26(814MHz~824MHz), 1.4MHz (-26dBc)

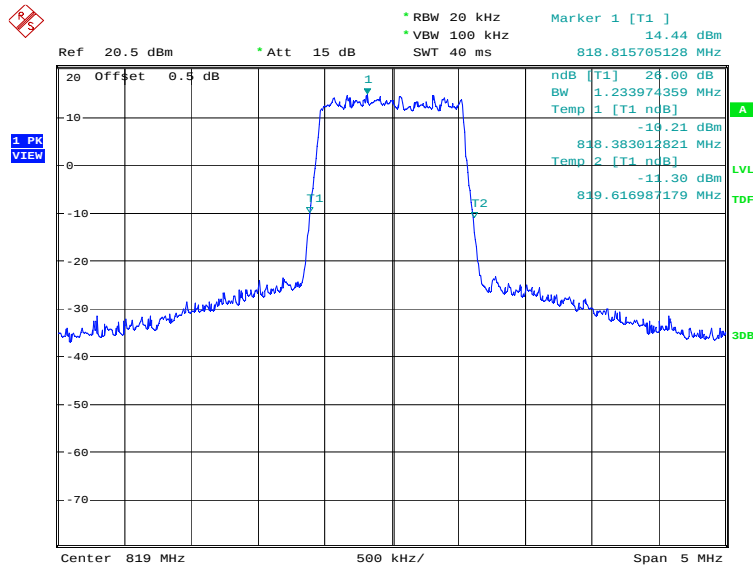
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	1233.97	1233.97

LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:56:55

LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, 16QAM (-26dBc BW)

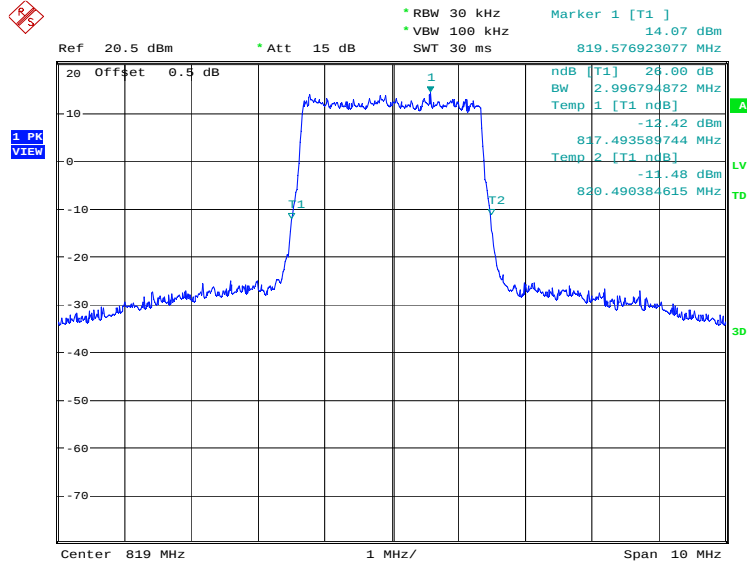


Date: 6. JUN.2022 19:57:35

LTE band 26(814MHz~824MHz), 3MHz (-26dBc)

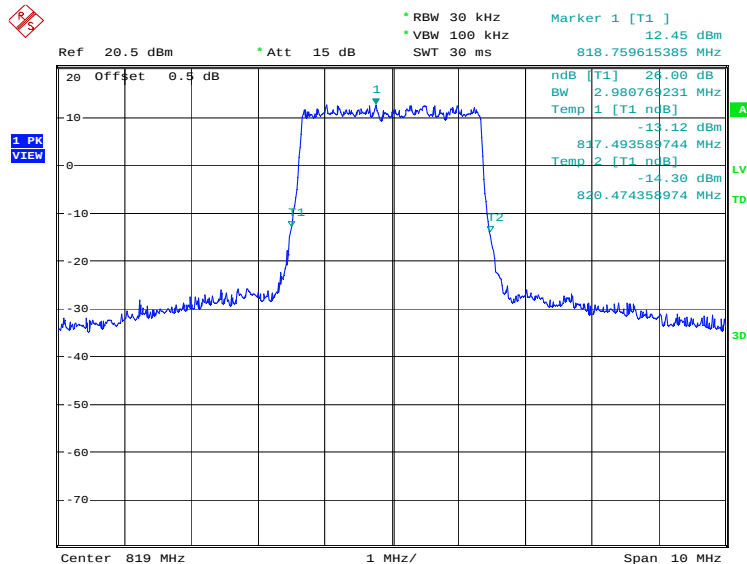
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	2996.79	2980.77

LTE band 26(814MHz~824MHz), 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:58:18

LTE band 26(814MHz~824MHz), 3MHz Bandwidth, 16QAM (-26dBc BW)

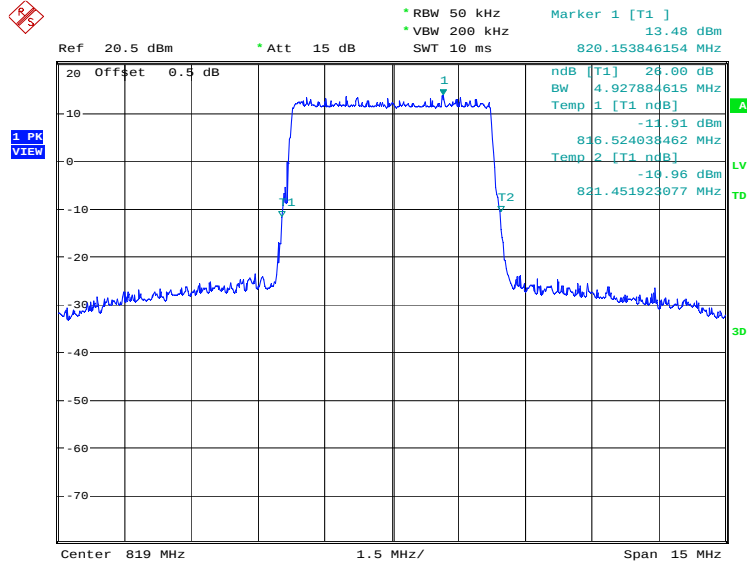


Date: 6. JUN.2022 19:58:58

LTE band 26(814MHz~824MHz), 5MHz (-26dBc)

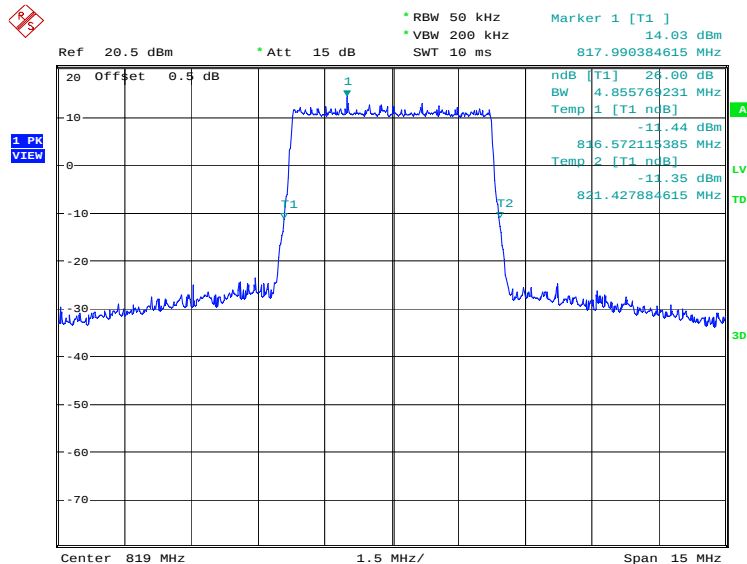
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	4927.88	4855.77

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN. 2022 19:59:42

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, 16QAM (-26dBc BW)

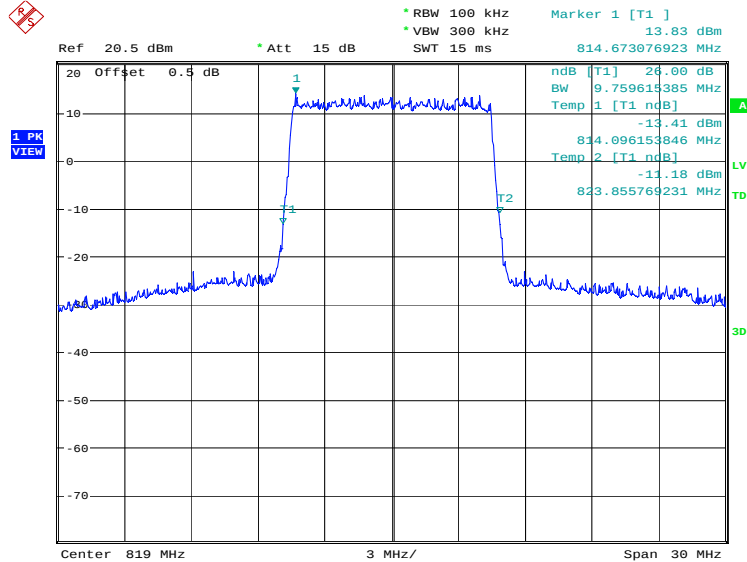


Date: 6. JUN. 2022 20:00:22

LTE band 26(814MHz~824MHz), 10MHz (-26dBc)

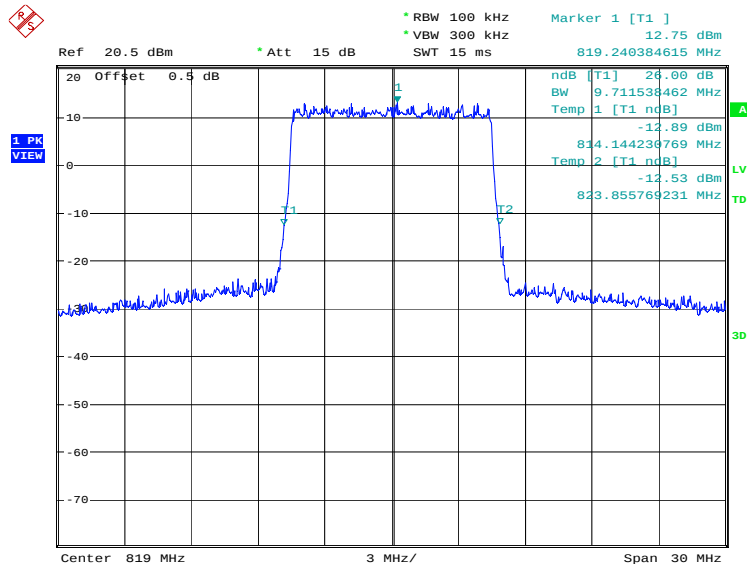
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	9759.62	9711.54

LTE band 26(814MHz~824MHz), 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 20:01:05

LTE band 26(814MHz~824MHz), 10MHz Bandwidth, 16QAM (-26dBc BW)

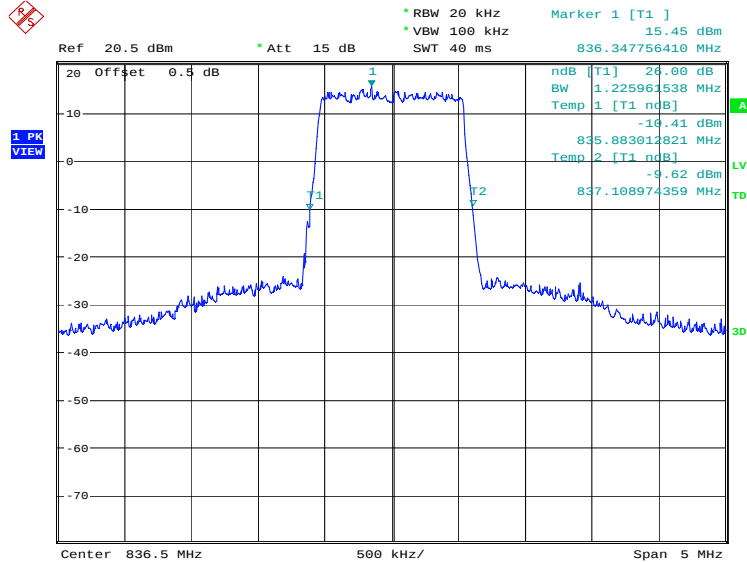


Date: 6. JUN.2022 20:01:45

LTE band 26(824MHz~849MHz), 1.4MHz (-26dBc)

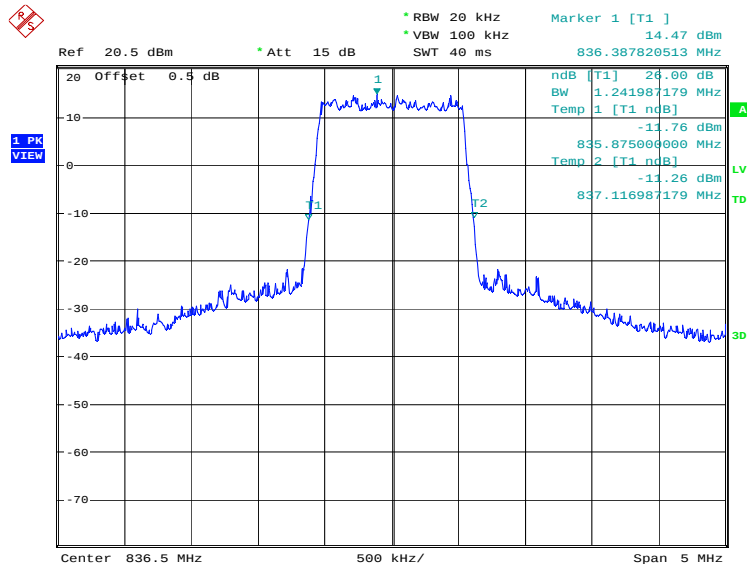
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	1225.96	1241.99

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:49:18

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, 16QAM (-26dBc BW)

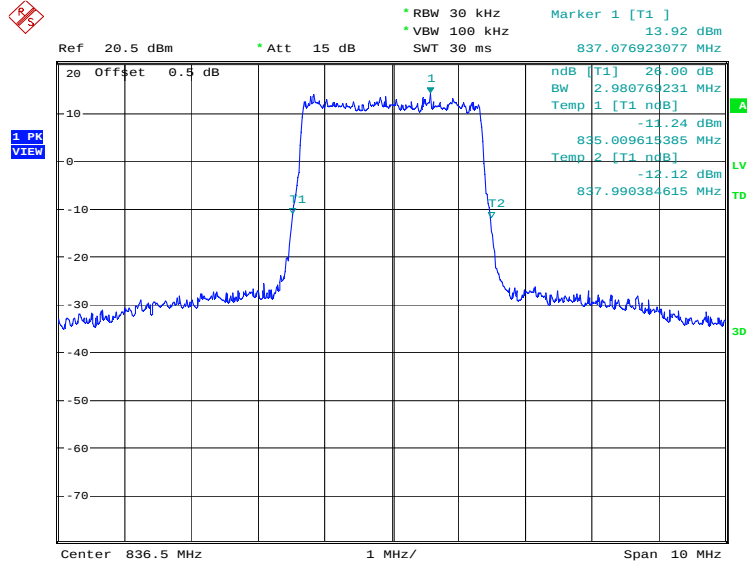


Date: 6. JUN.2022 19:49:58

LTE band 26(824MHz~849MHz), 3MHz (-26dBc)

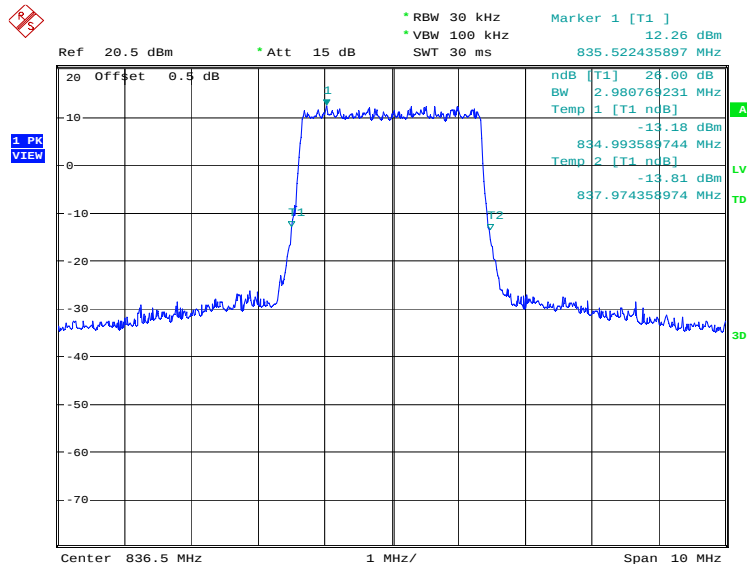
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	2980.77	2980.77

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:50:42

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, 16QAM (-26dBc BW)

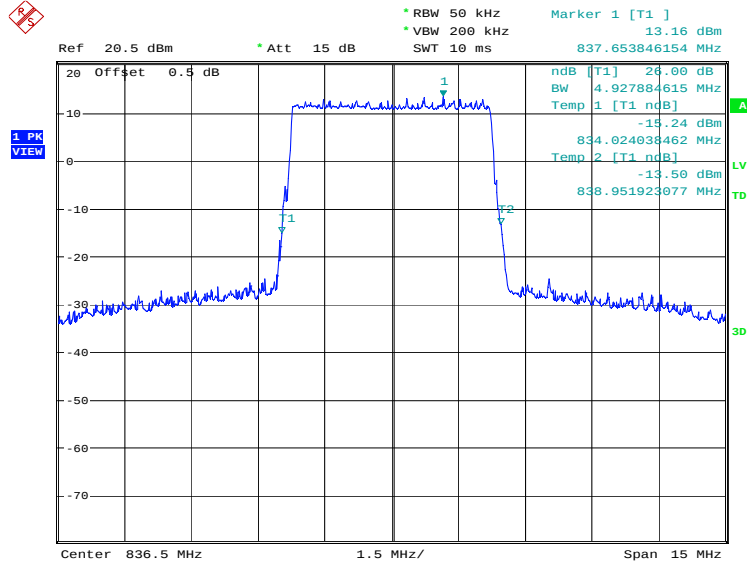


Date: 6. JUN.2022 19:51:22

LTE band 26(824MHz~849MHz), 5MHz (-26dBc)

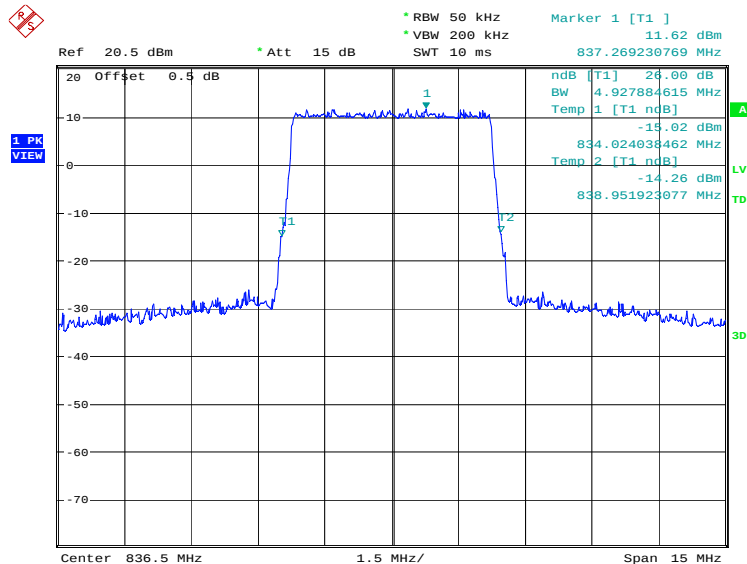
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	4927.88	4927.88

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:52:05

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, 16QAM (-26dBc BW)

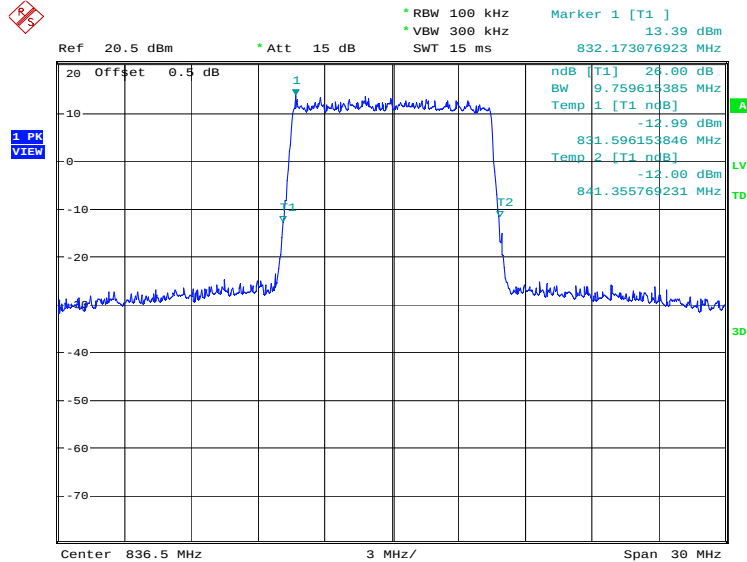


Date: 6. JUN.2022 19:52:45

LTE band 26(824MHz~849MHz), 10MHz (-26dBc)

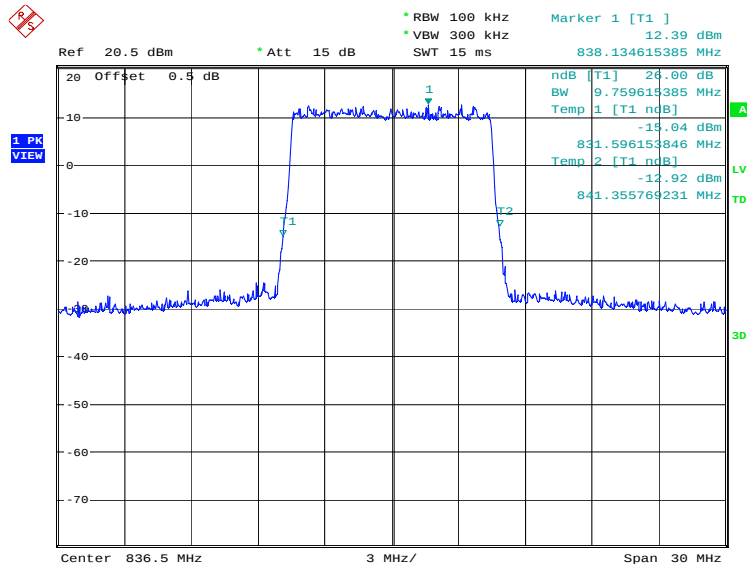
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	9759.62	9759.62

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:53:28

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, 16QAM (-26dBc BW)

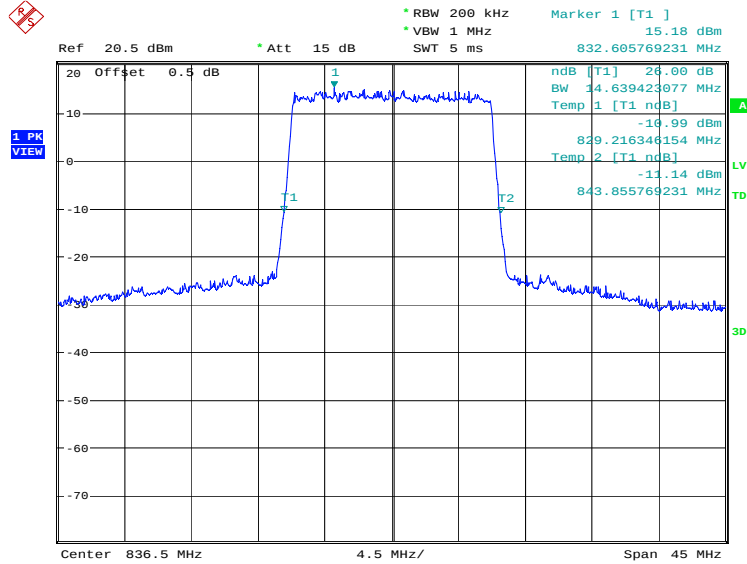


Date: 6. JUN.2022 19:54:08

LTE band 26(824MHz~849MHz), 15MHz (-26dBc)

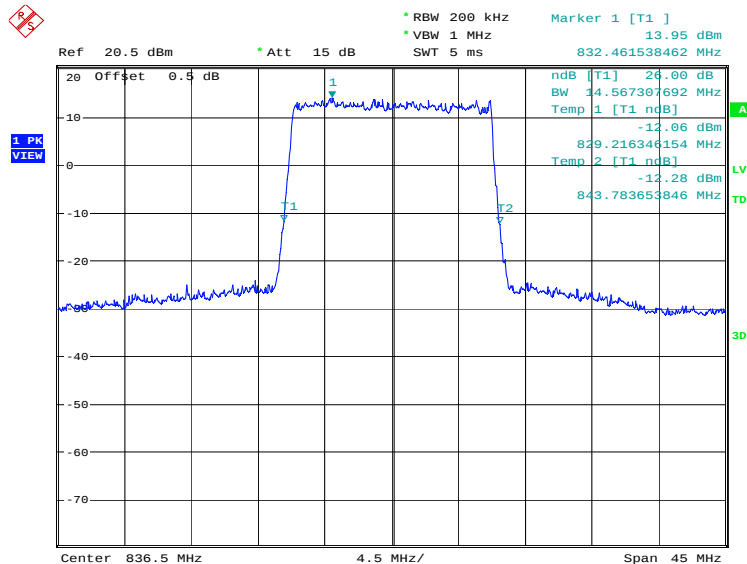
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	14639.42	14567.31

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:54:52

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, 16QAM (-26dBc BW)

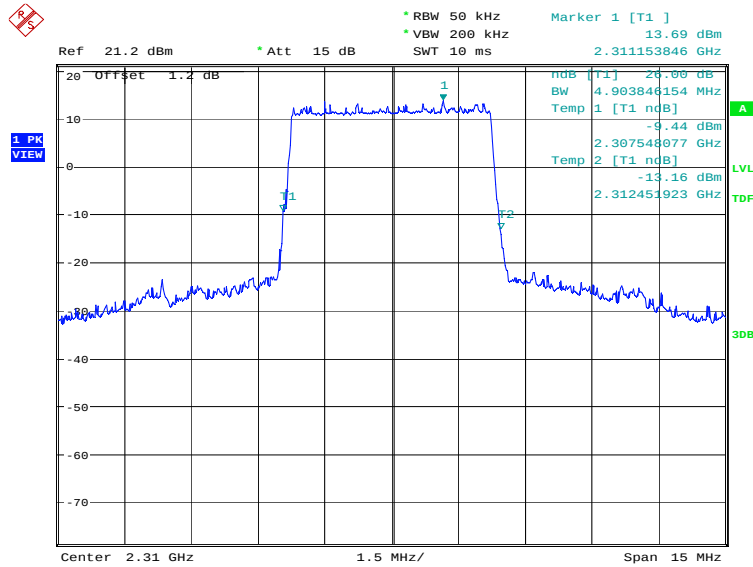


Date: 6. JUN.2022 19:55:32

LTE band 30, 5MHz (-26dBc)

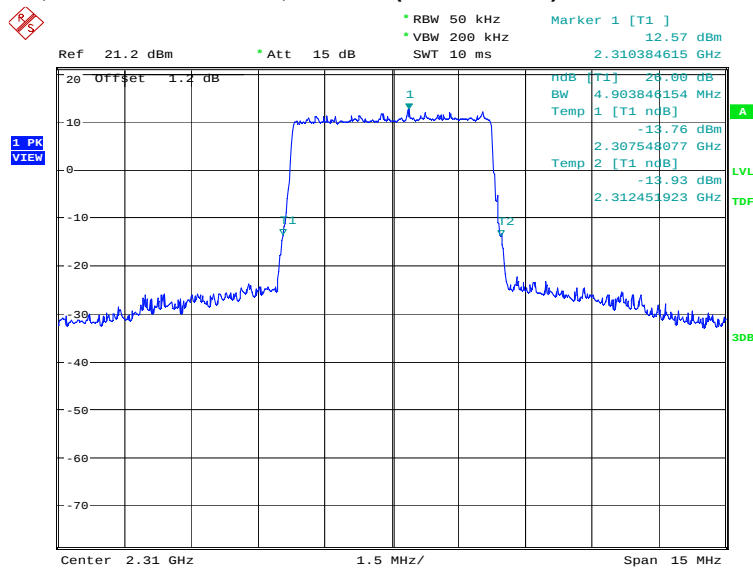
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2310.0	QPSK	16QAM
	4903.85	4903.85

LTE band 30, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 20:02:32

LTE band 30, 5MHz Bandwidth,16QAM (-26dBc BW)

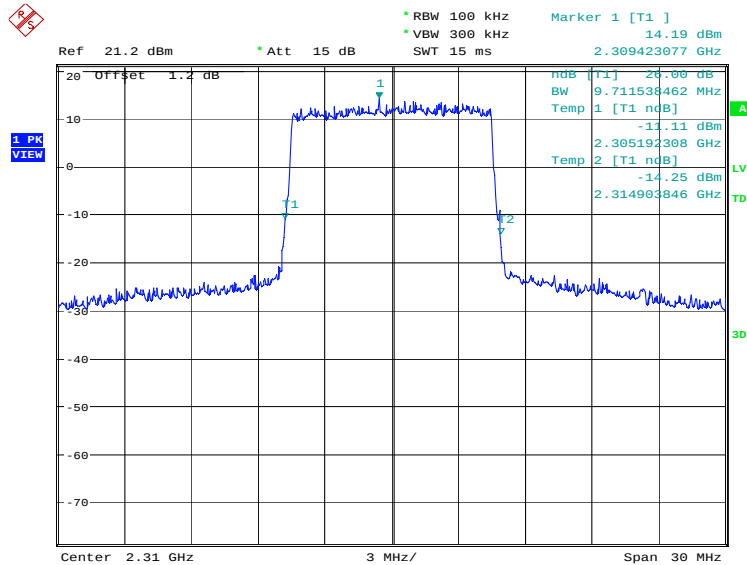


Date: 6. JUN.2022 20:03:12

LTE band 30, 10MHz (-26dBc)

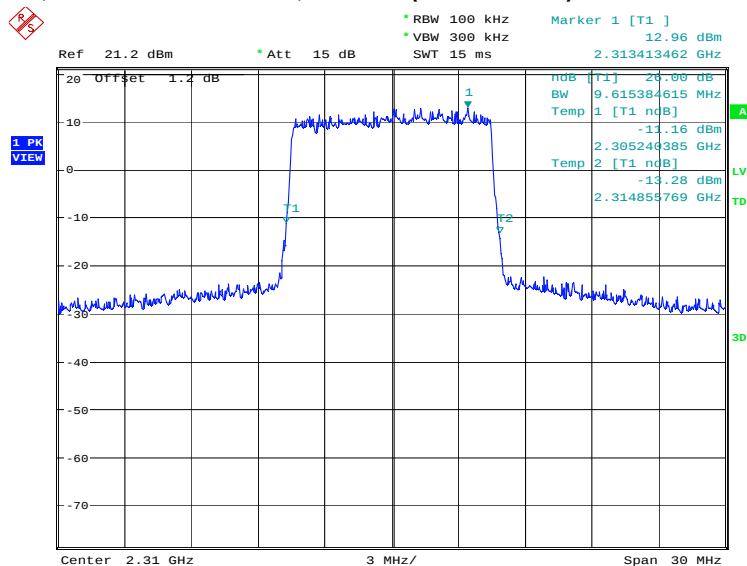
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2310.0	QPSK	16QAM
	9711.54	9615.38

LTE band 30, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 20:04:06

LTE band 30, 10MHz Bandwidth, 16QAM (-26dBc BW)

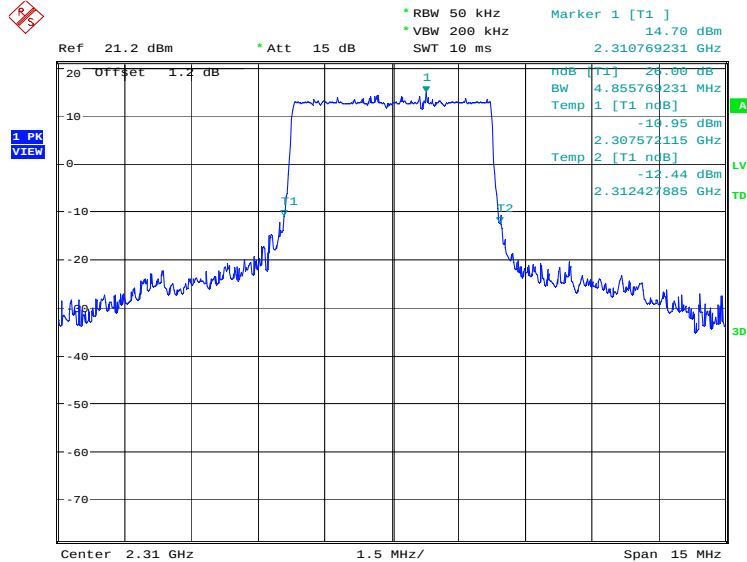


Date: 6. JUN.2022 20:04:46

LTE band 40(2305MHz~2315MHz), 5MHz (-26dBc BW)

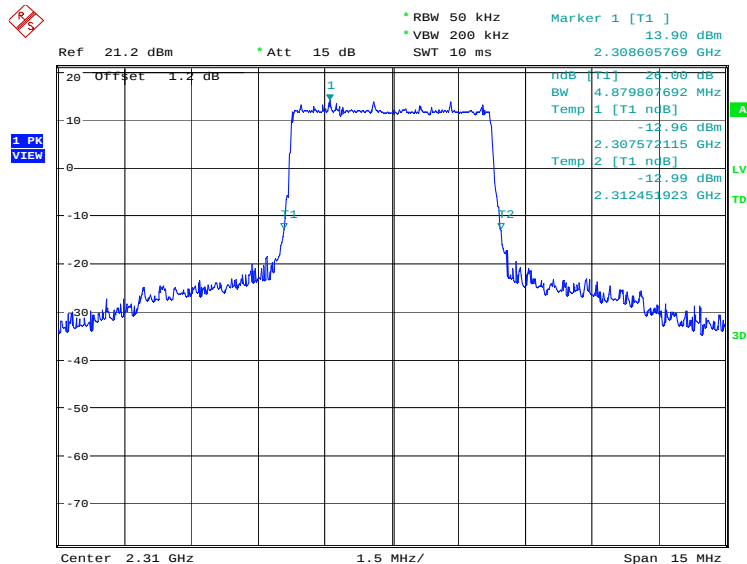
Frequency(MHz)	Occupied Bandwidth (-26dBc BW) (kHz)	
2310.0	QPSK	16QAM
	4855.77	4879.81

LTE band 40(2305MHz~2315MHz), 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 11.JUL.2022 16:44:12

LTE band 40(2305MHz~2315MHz), 5MHz Bandwidth,16QAM (-26dBc BW)

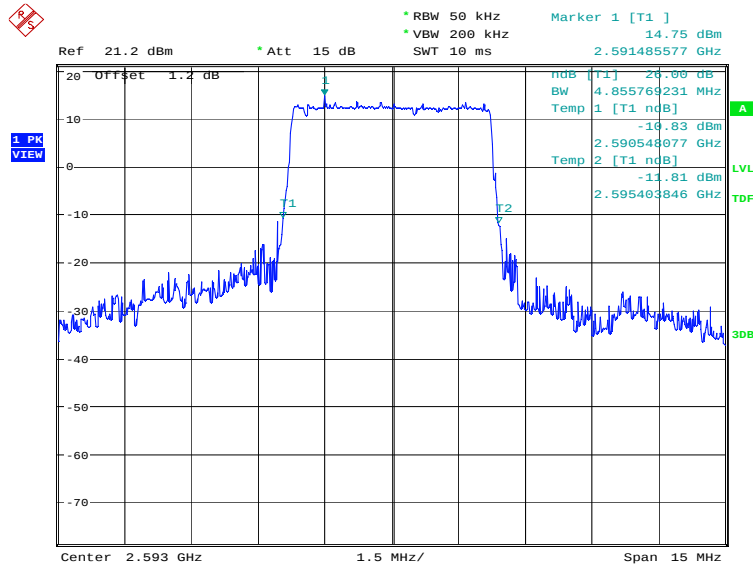


Date: 11.JUL.2022 16:44:52

LTE band 41, 5MHz (-26dBc)

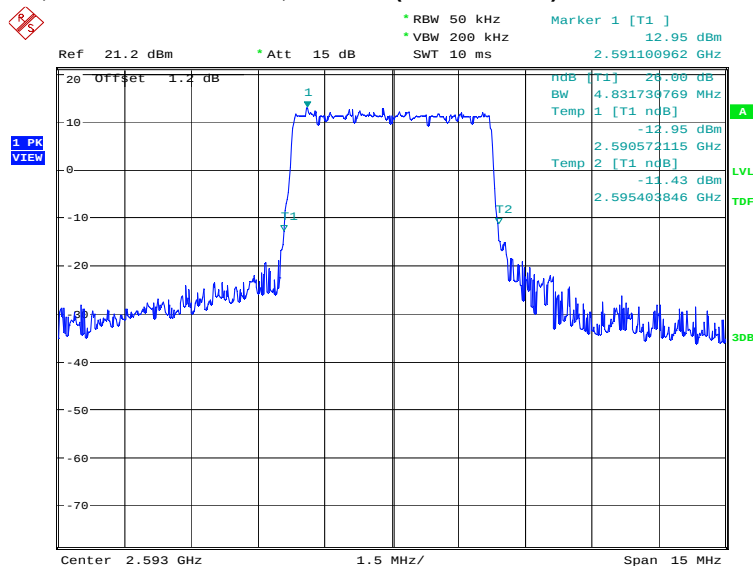
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	4855.77	4831.73

LTE band 41, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 11.JUL.2022 15:14:26

LTE band 41, 5MHz Bandwidth, 16QAM (-26dBc BW)

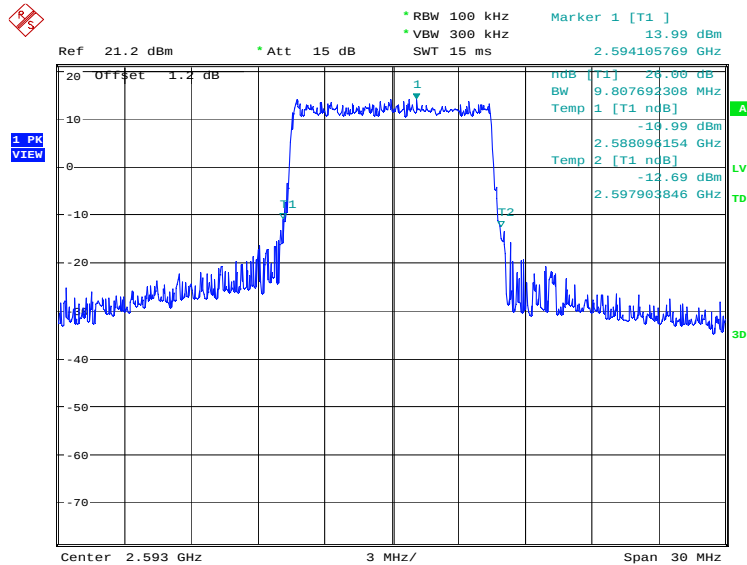


Date: 11.JUL.2022 15:15:06

LTE band 41, 10MHz (-26dBc)

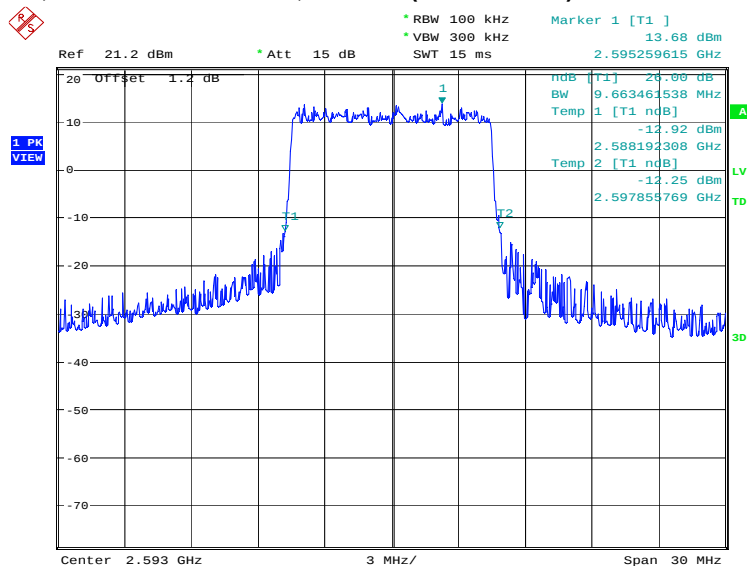
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	9807.69	9663.46

LTE band 41, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 11.JUL.2022 15:15:49

LTE band 41, 10MHz Bandwidth,16QAM (-26dBc BW)

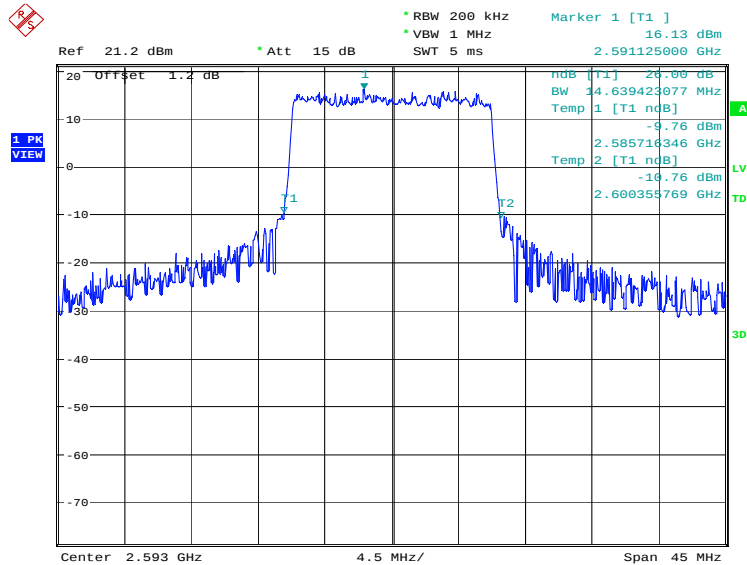


Date: 11.JUL.2022 15:16:28

LTE band 41, 15MHz (-26dBc)

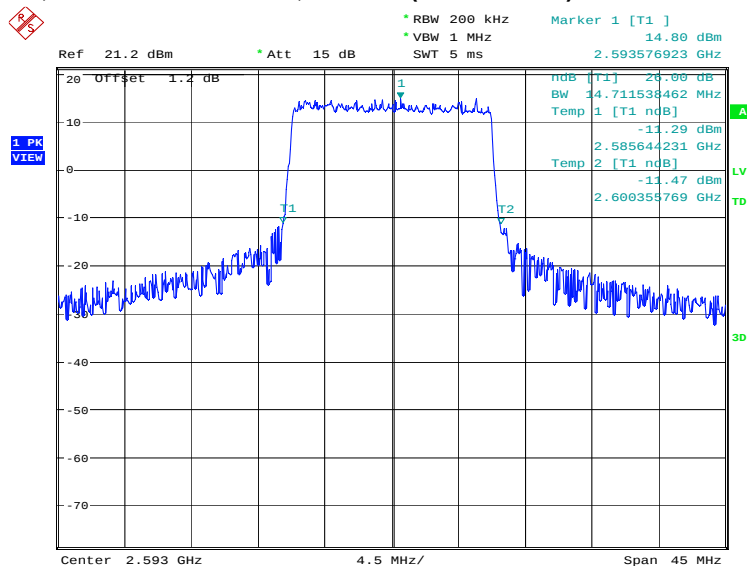
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	14639.42	14711.54

LTE band 41, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 11.JUL.2022 15:17:12

LTE band 41, 15MHz Bandwidth, 16QAM (-26dBc BW)

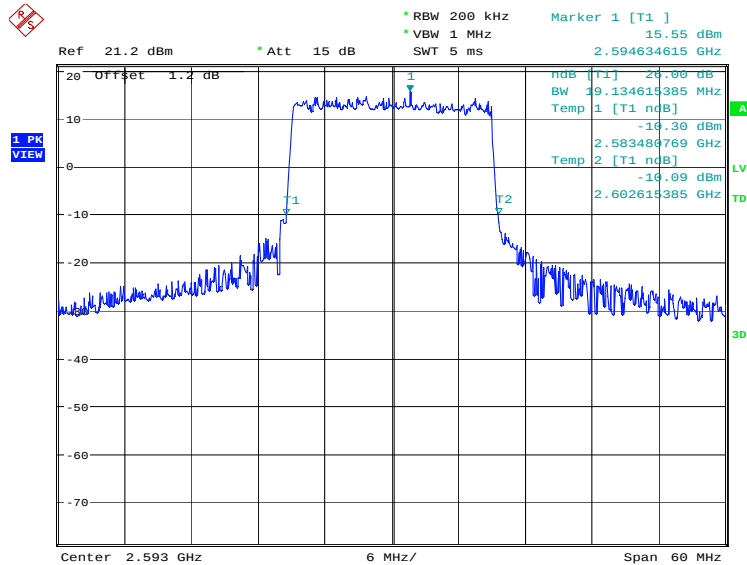


Date: 11.JUL.2022 15:17:52

LTE band 41, 20MHz (-26dBc)

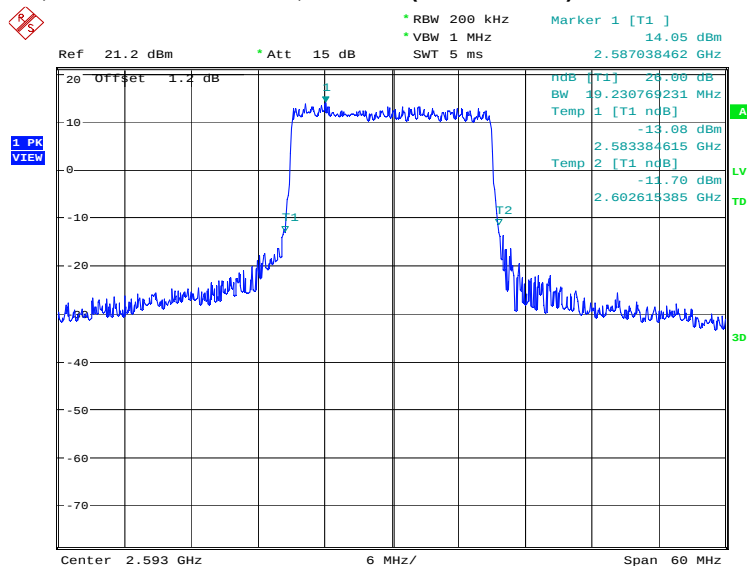
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	19134.62	19230.77

LTE band 41, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 11.JUL.2022 15:18:36

LTE band 41, 20MHz Bandwidth, 16QAM (-26dBc BW)

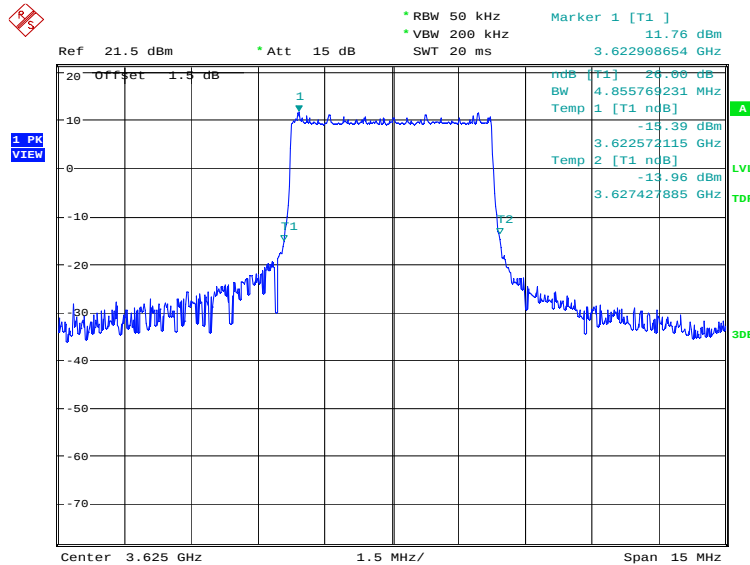


Date: 11.JUL.2022 15:19:15

LTE band 48, 5MHz (-26dBc)

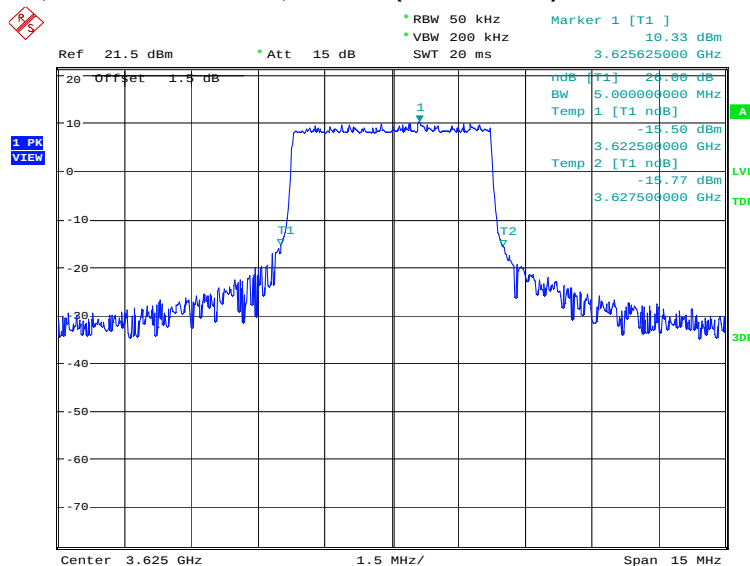
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
3625.0	QPSK	16QAM
	4855.77	5000.00

LTE band 48, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 11.JUL.2022 15:57:08

LTE band 48, 5MHz Bandwidth, 16QAM (-26dBc BW)

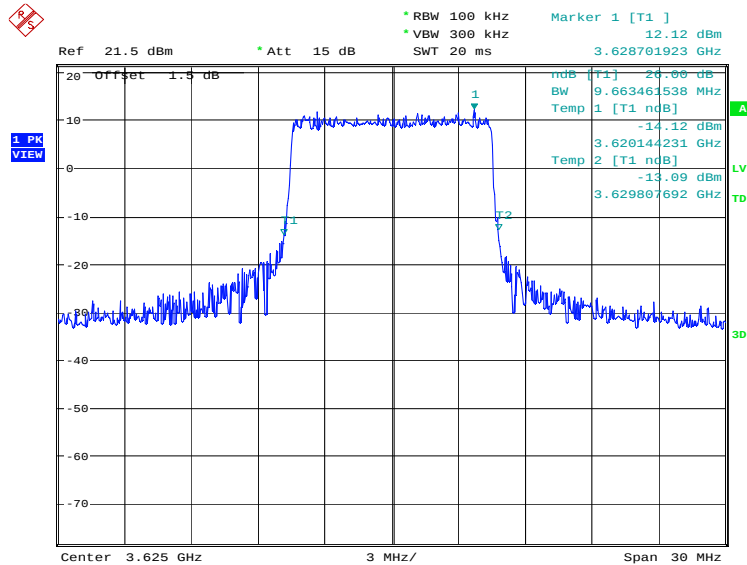


Date: 11.JUL.2022 15:57:48

LTE band 48, 10MHz (-26dBc)

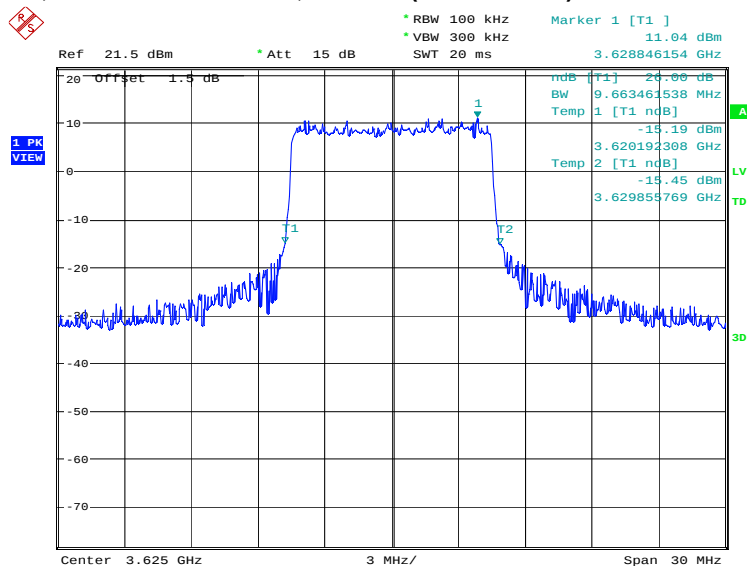
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
3625.0	QPSK	16QAM
	9663.46	9663.46

LTE band 48, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 11.JUL.2022 15:58:32

LTE band 48, 10MHz Bandwidth,16QAM (-26dBc BW)

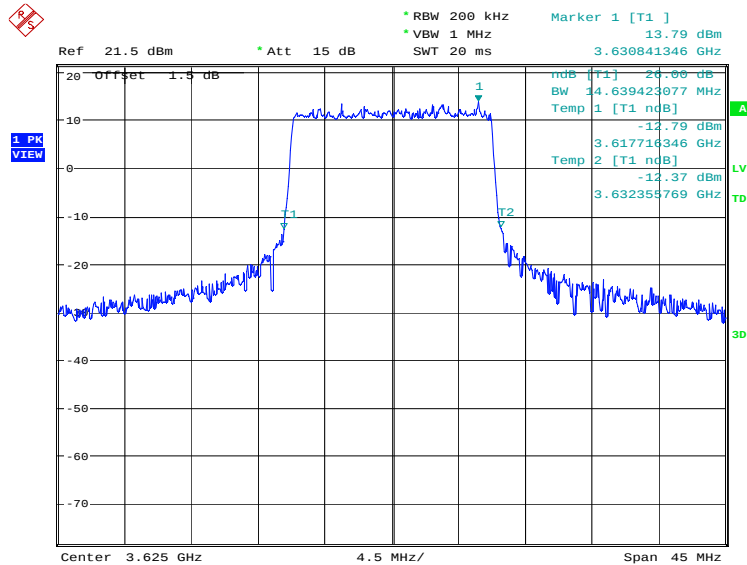


Date: 11.JUL.2022 15:59:12

LTE band 48, 15MHz (-26dBc)

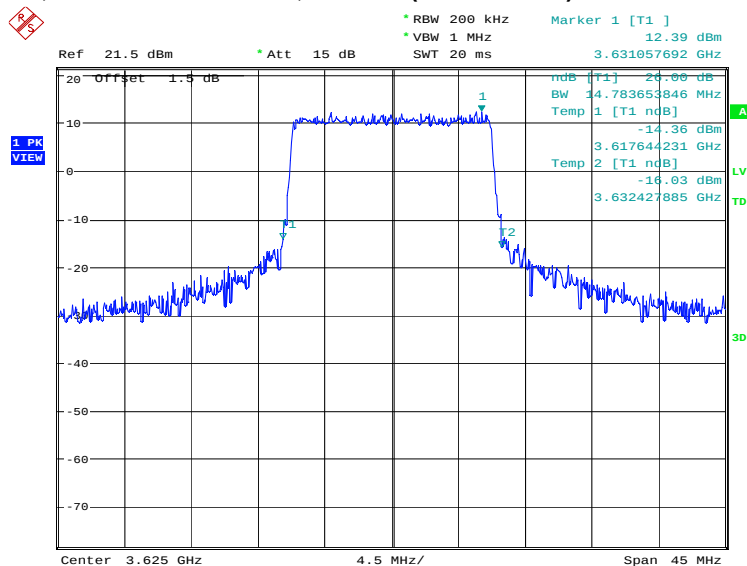
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
3625.0	QPSK	16QAM
	14639.42	14783.65

LTE band 48, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 11.JUL.2022 15:59:55

LTE band 48, 15MHz Bandwidth, 16QAM (-26dBc BW)

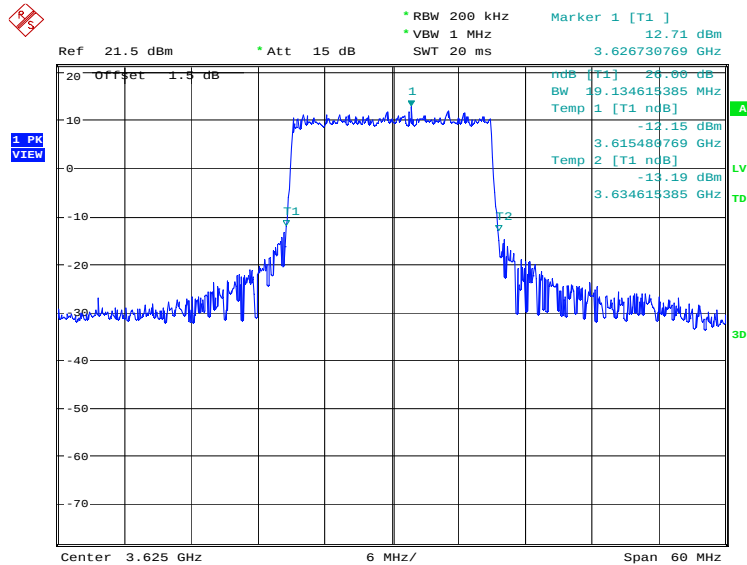


Date: 11.JUL.2022 16:00:35

LTE band 48, 20MHz (-26dBc)

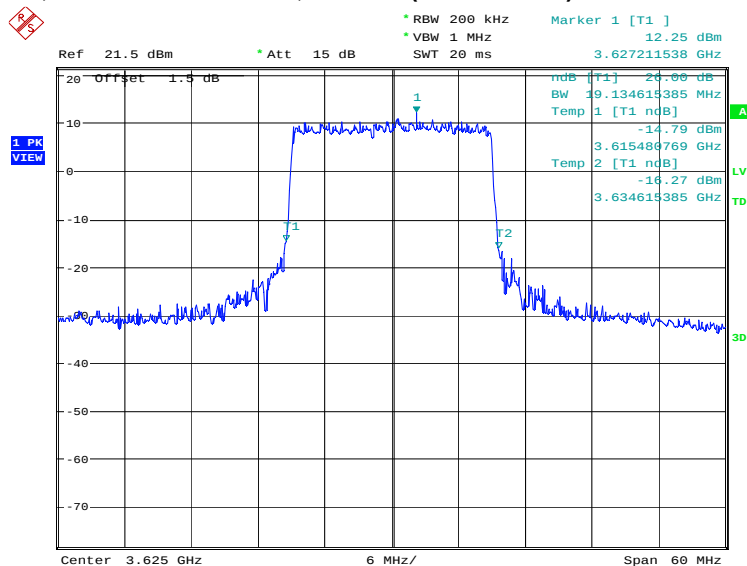
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
3625.0	QPSK	16QAM
	19134.62	19134.62

LTE band 48, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 11.JUL.2022 16:01:19

LTE band 48, 20MHz Bandwidth, 16QAM (-26dBc BW)

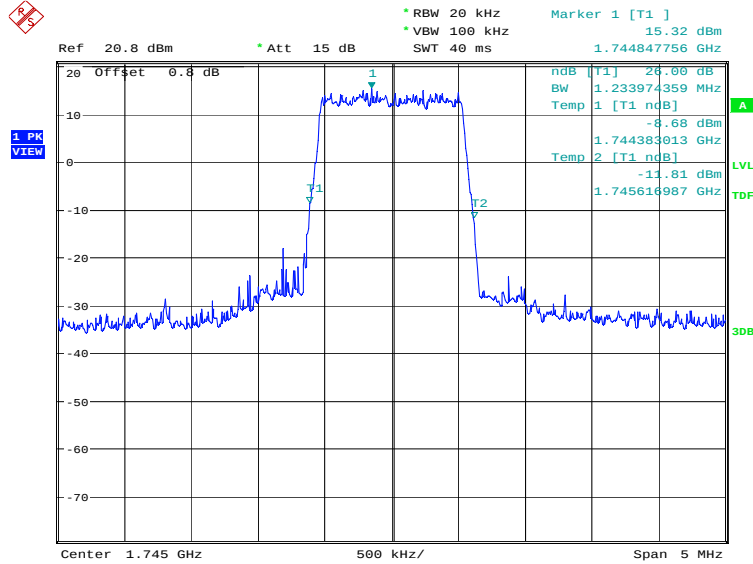


Date: 11.JUL.2022 16:01:59

LTE band 66, 1.4MHz (-26dBc)

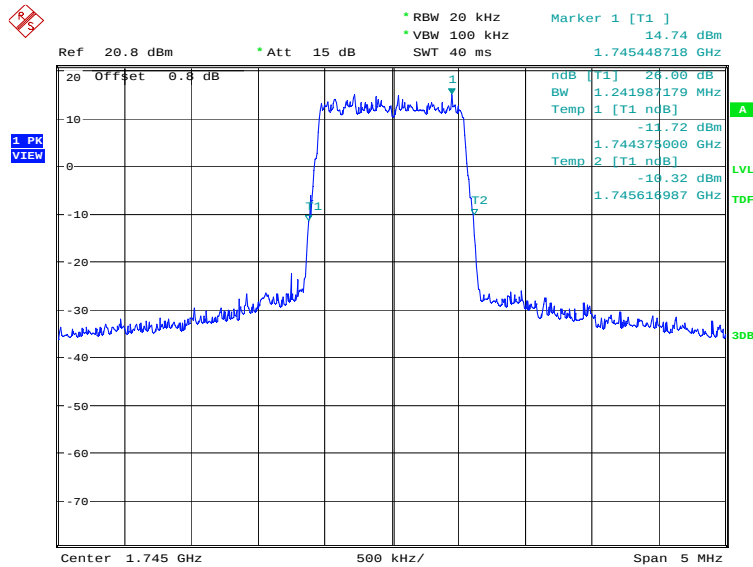
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	1233.97	1241.99

LTE band 66, 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 20:05:35

LTE band 66, 1.4MHz Bandwidth, 16QAM (-26dBc BW)

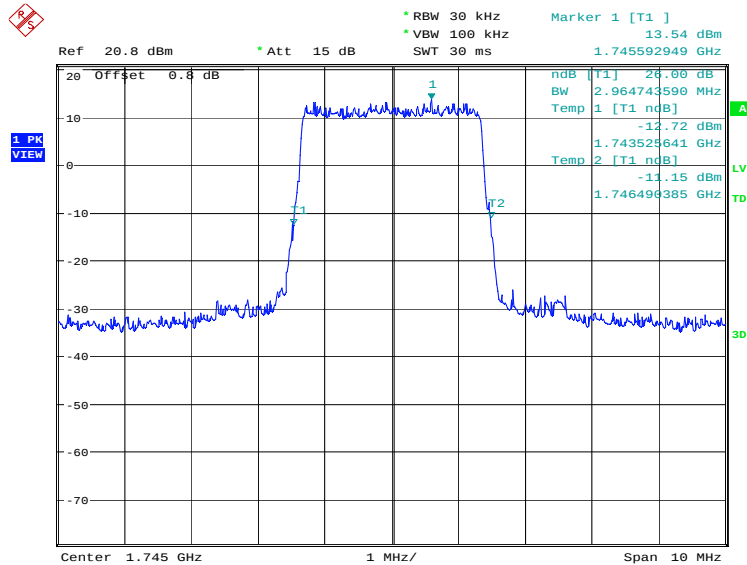


Date: 6. JUN.2022 20:06:15

LTE band 66, 3MHz (-26dBc)

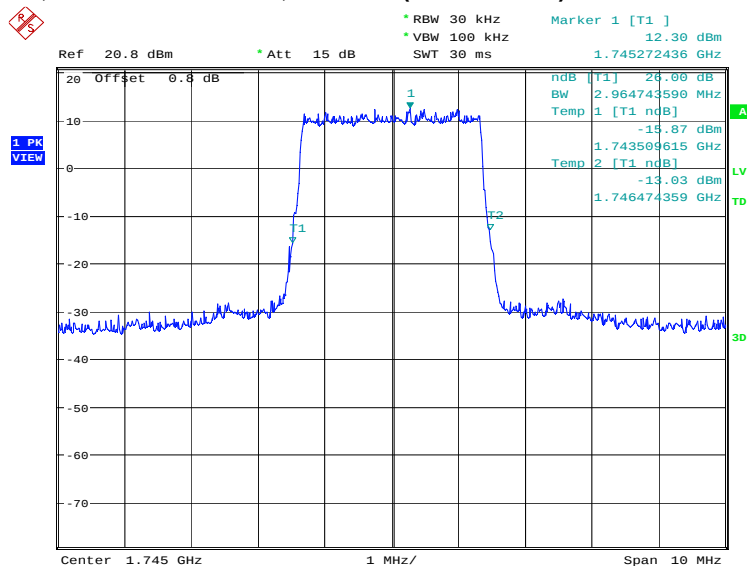
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	2964.74	2964.74

LTE band 66, 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 20:06:59

LTE band 66, 3MHz Bandwidth, 16QAM (-26dBc BW)

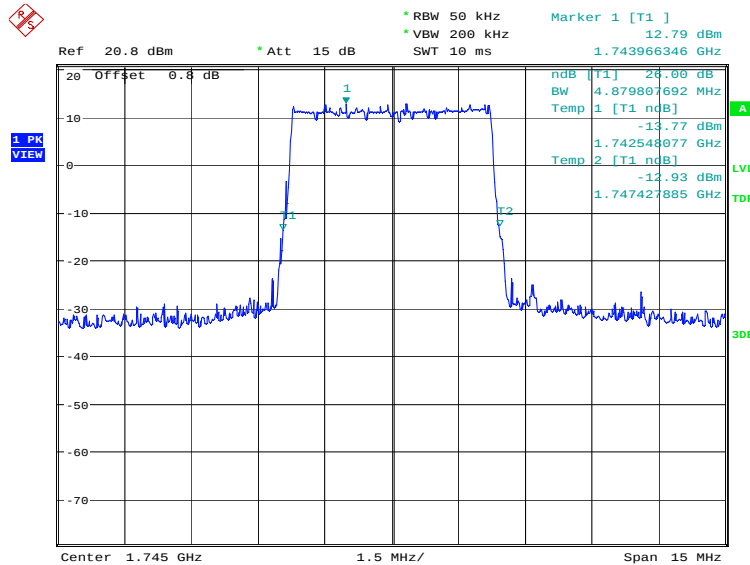


Date: 6. JUN.2022 20:07:39

LTE band 66, 5MHz (-26dBc)

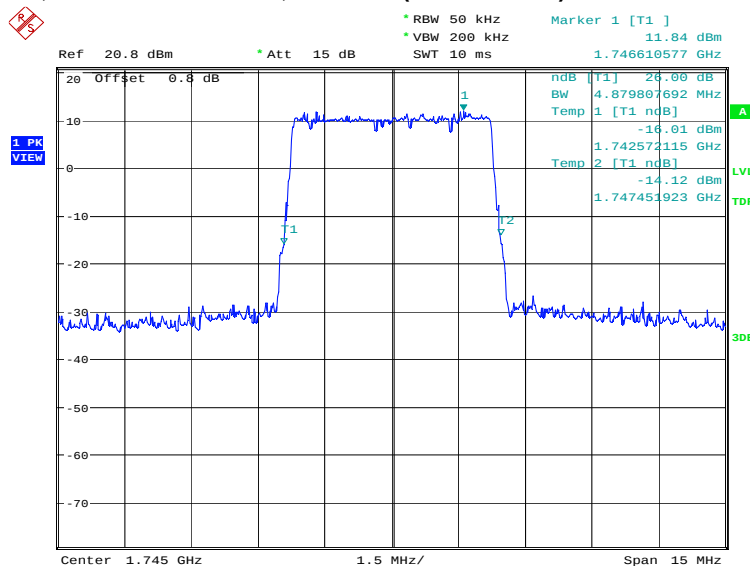
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	4879.81	4879.81

LTE band 66, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 20:08:24

LTE band 66, 5MHz Bandwidth, 16QAM (-26dBc BW)

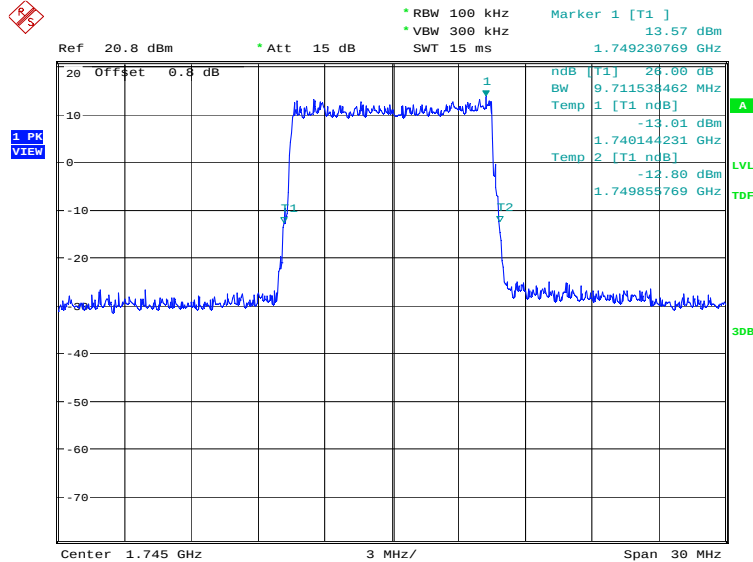


Date: 6. JUN.2022 20:09:04

LTE band 66, 10MHz (-26dBc)

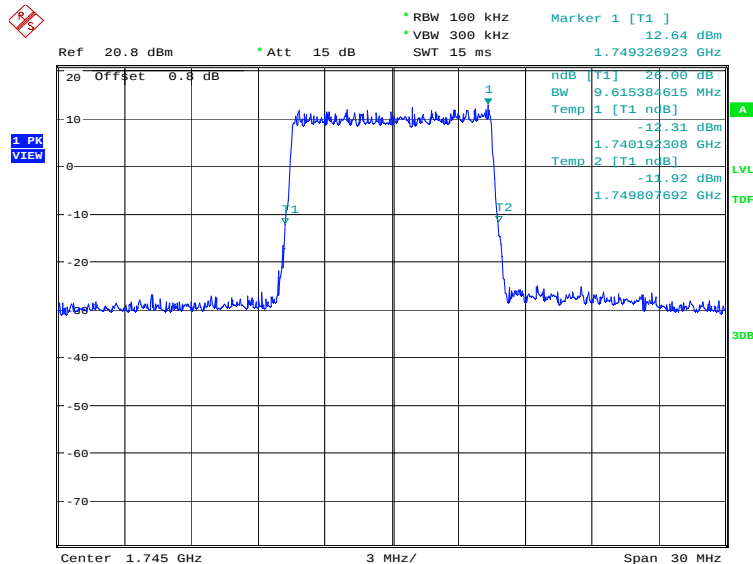
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	9711.54	9615.38

LTE band 66, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 20:09:48

LTE band 66, 10MHz Bandwidth, 16QAM (-26dBc BW)

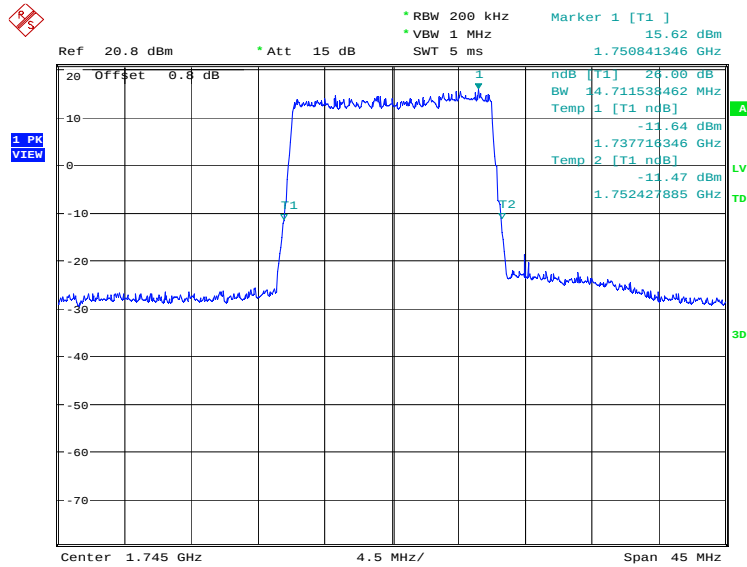


Date: 6. JUN.2022 20:10:28

LTE band 66, 15MHz (-26dBc)

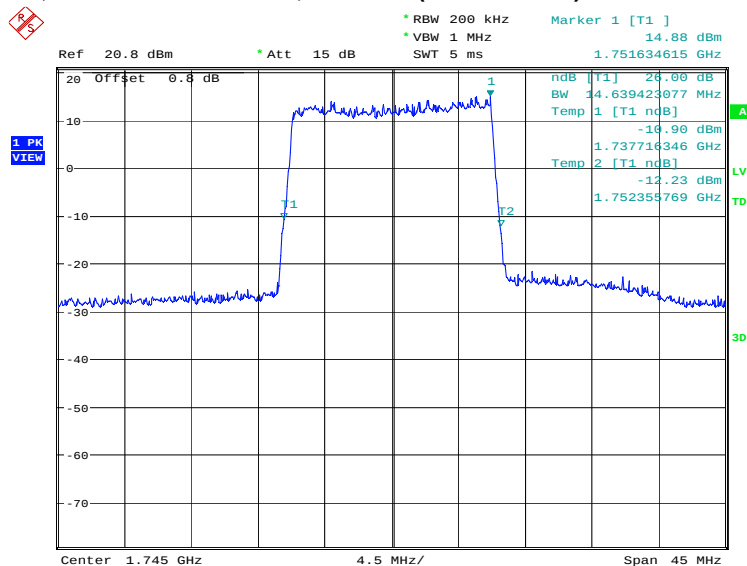
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	14711.54	14639.42

LTE band 66, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 20:11:12

LTE band 66, 15MHz Bandwidth, 16QAM (-26dBc BW)

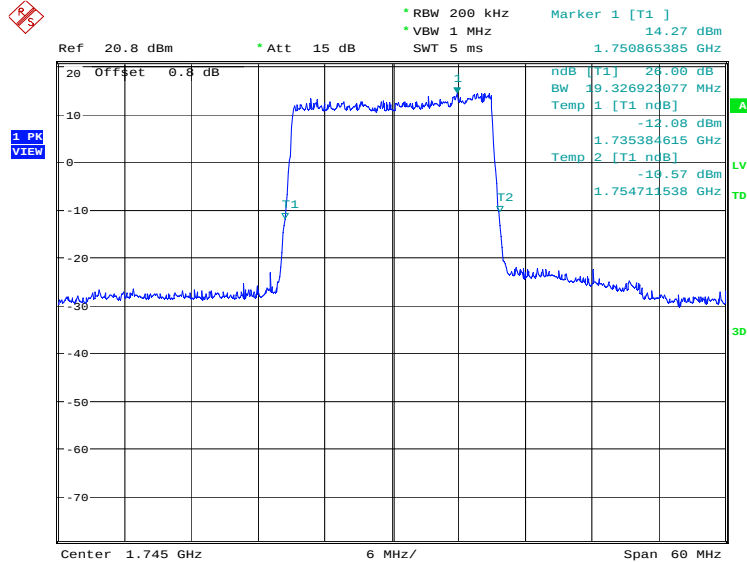


Date: 6. JUN.2022 20:11:53

LTE band 66, 20MHz (-26dBc)

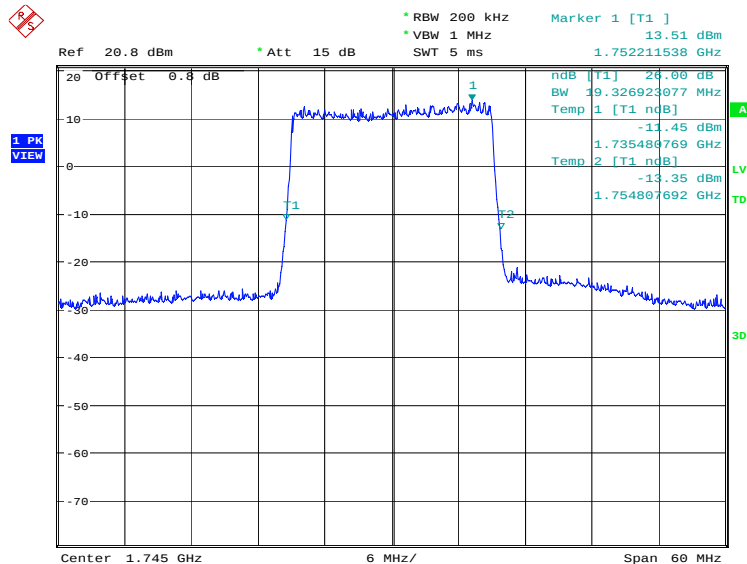
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	19326.92	19326.92

LTE band 66, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 20:12:37

LTE band 66, 20MHz Bandwidth, 16QAM (-26dBc BW)

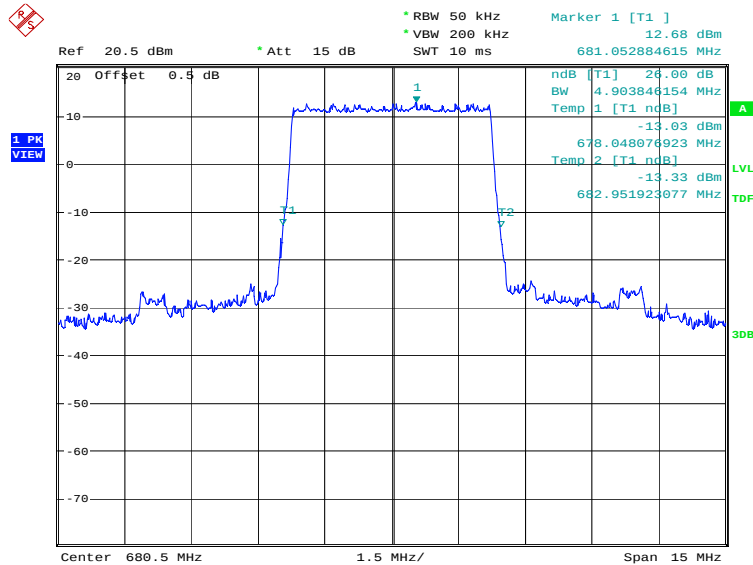


Date: 6. JUN.2022 20:13:17

LTE band 71, 5MHz (-26dBc)

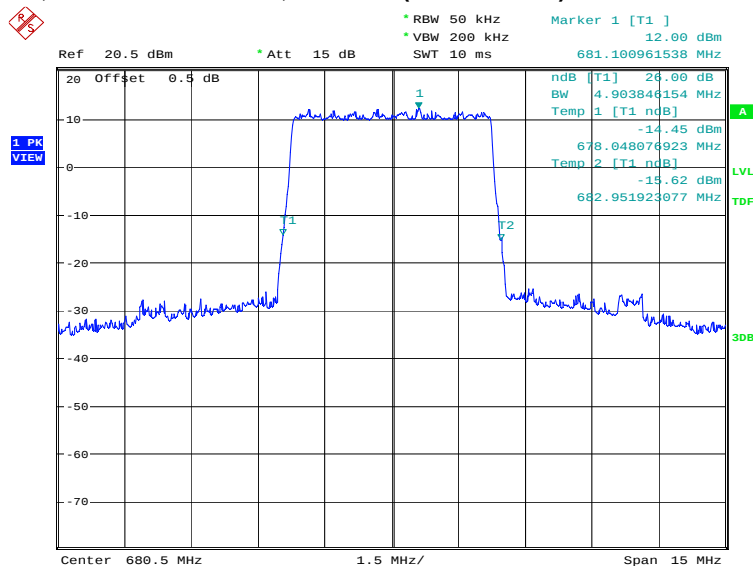
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	4903.85	4903.85

LTE band 71, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:22:09

LTE band 71, 5MHz Bandwidth, 16QAM (-26dBc BW)

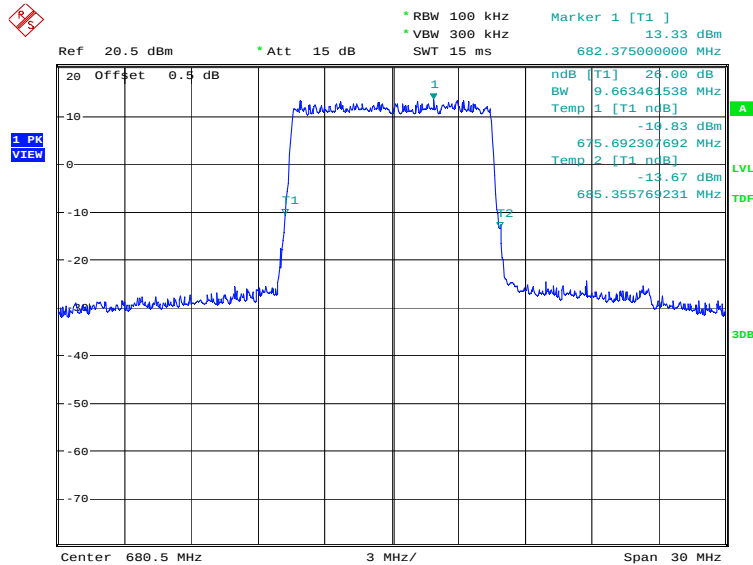


Date: 6. JUN.2022 19:22:49

LTE band 71, 10MHz (-26dBc)

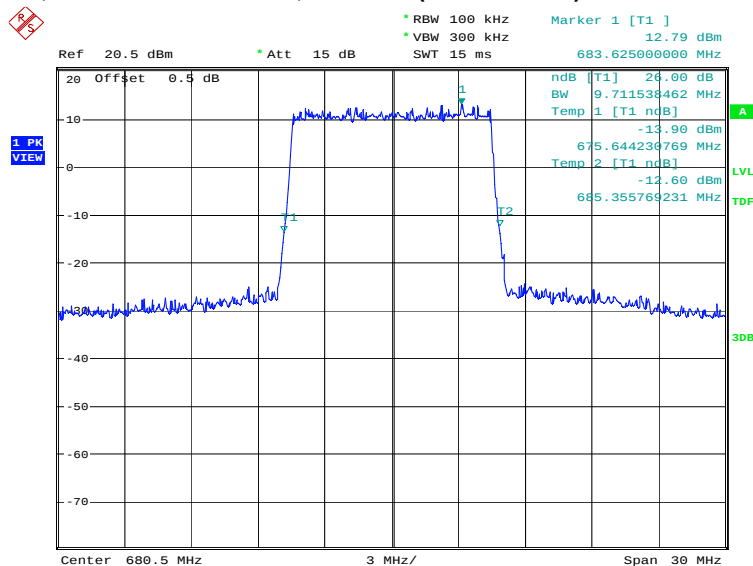
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	9663.46	9711.54

LTE band 71, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:23:32

LTE band 71, 10MHz Bandwidth, 16QAM (-26dBc BW)

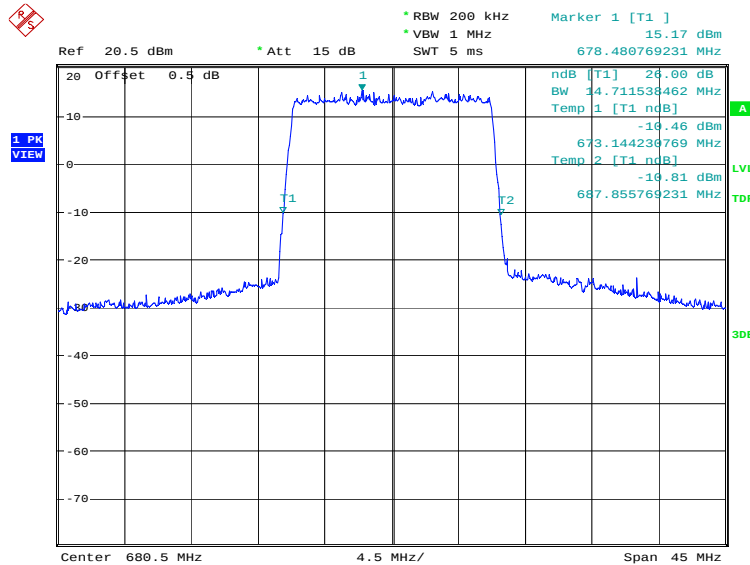


Date: 6. JUN.2022 19:24:12

LTE band 71, 15MHz (-26dBc)

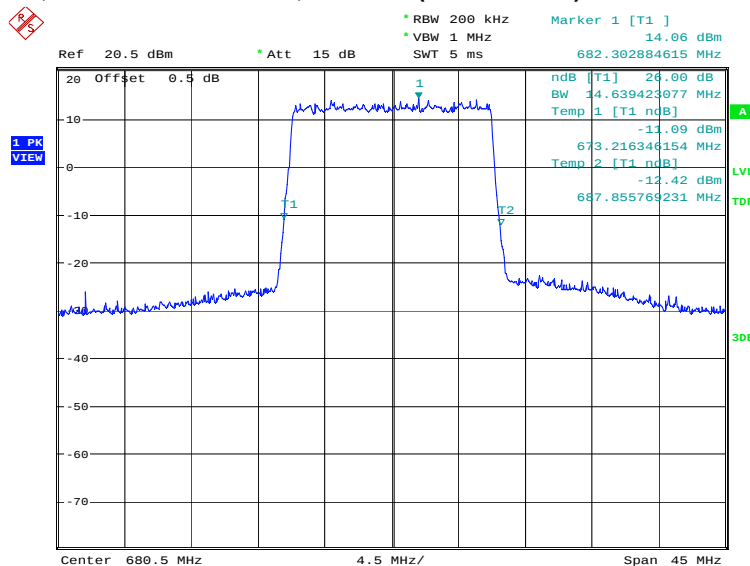
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	14711.54	14639.42

LTE band 71, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:24:55

LTE band 71, 15MHz Bandwidth, 16QAM (-26dBc BW)

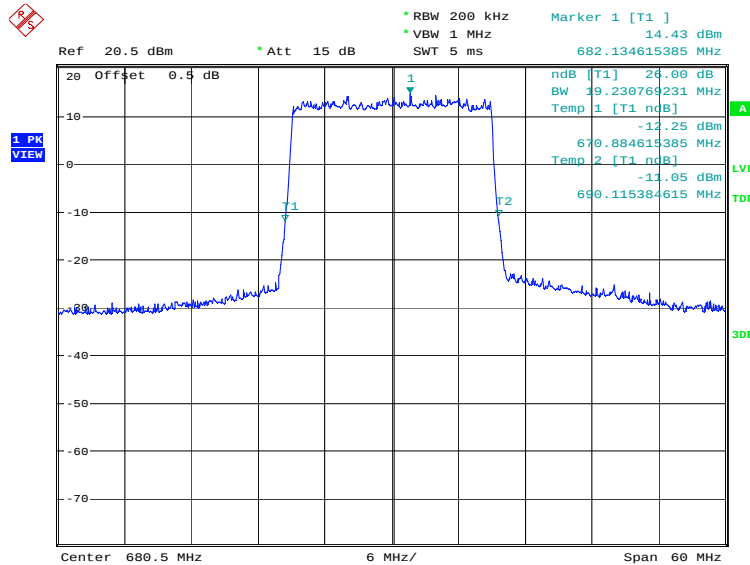


Date: 6. JUN.2022 19:25:35

LTE band 71, 20MHz (-26dBc)

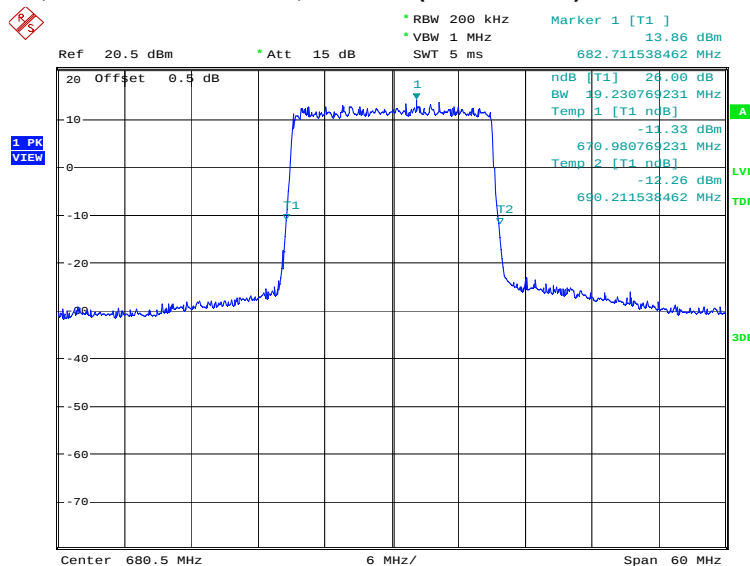
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	19230.77	19230.77

LTE band 71, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 6. JUN.2022 19:26:18

LTE band 71, 20MHz Bandwidth, 16QAM (-26dBc BW)

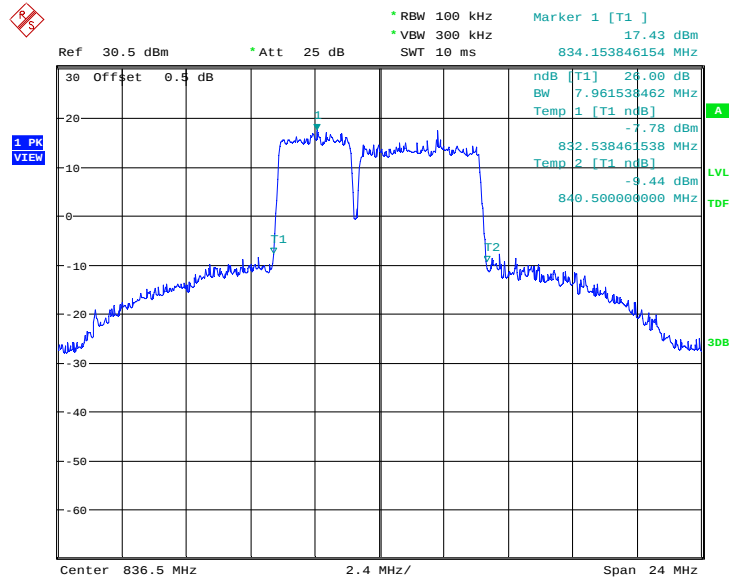


Date: 6. JUN.2022 19:26:58

LTE CA Band 5B, 3MHz+5MHz (-26dBc)

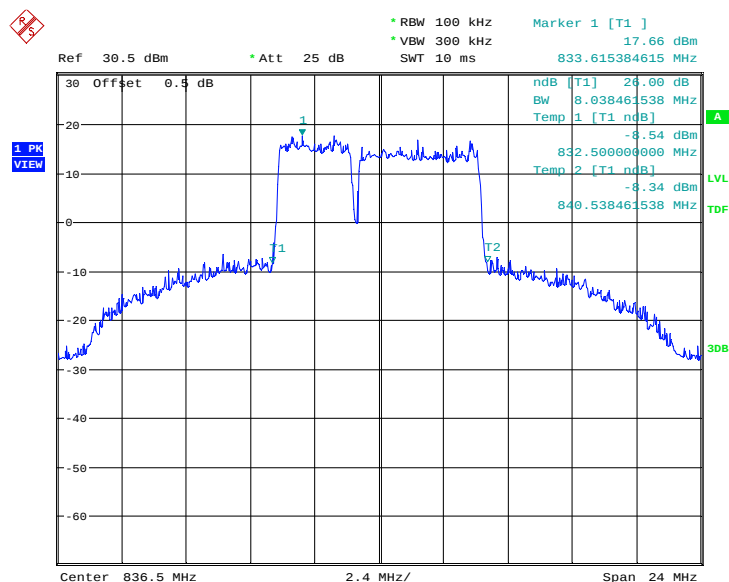
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
836.5	7.962	8.038

LTE CA Band 5B, 3MHz+5MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 15:54:43

LTE CA Band 5B, 3MHz+5MHz Bandwidth, 16QAM (-26dBc BW)

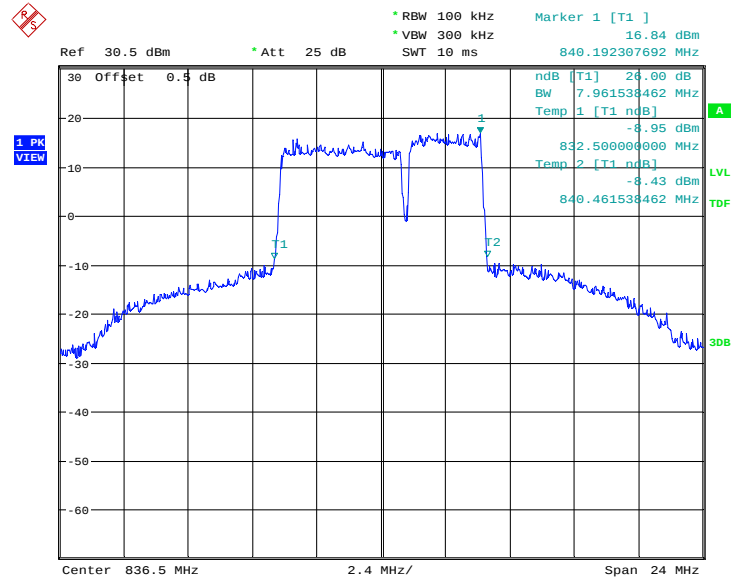


Date: 4.JUL.2022 15:55:06

LTE CA Band 5B, 5MHz+3MHz (-26dBc)

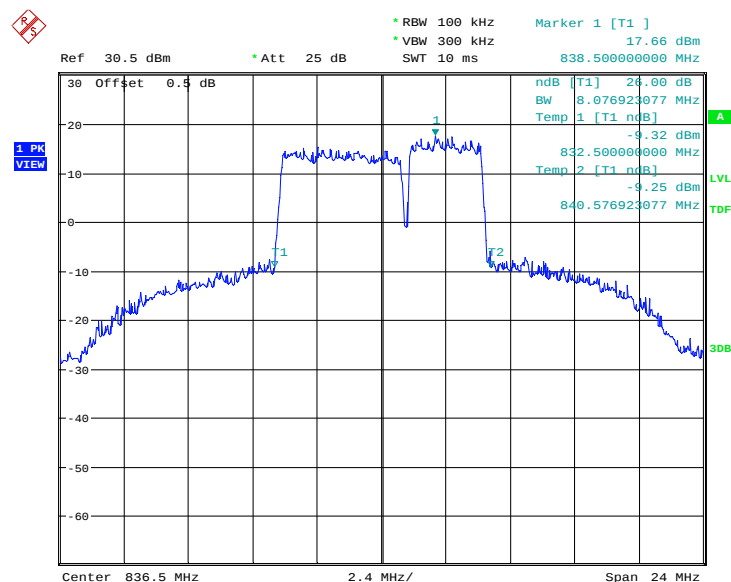
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
836.5	7.962	8.077

LTE CA Band 5B, 5MHz+3MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 15:56:03

LTE CA Band 5B, 5MHz+3MHz Bandwidth, 16QAM (-26dBc BW)

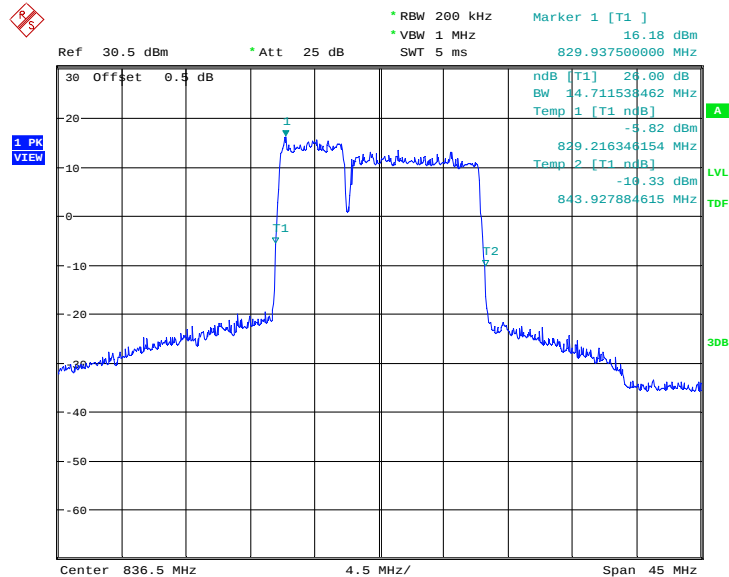


Date: 4.JUL.2022 15:56:25

LTE CA Band 5B, 5MHz+10MHz (-26dBc)

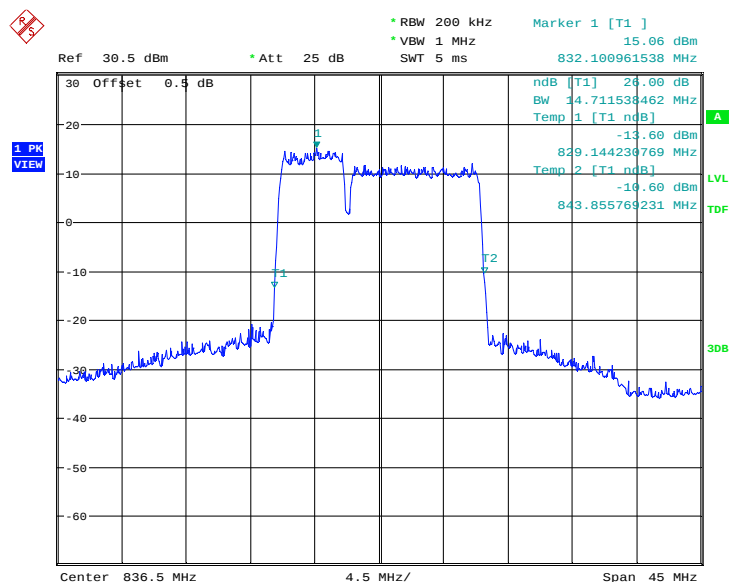
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
836.5	14.712	14.712

LTE CA Band 5B, 5MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 15:57:21

LTE CA Band 5B, 5MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

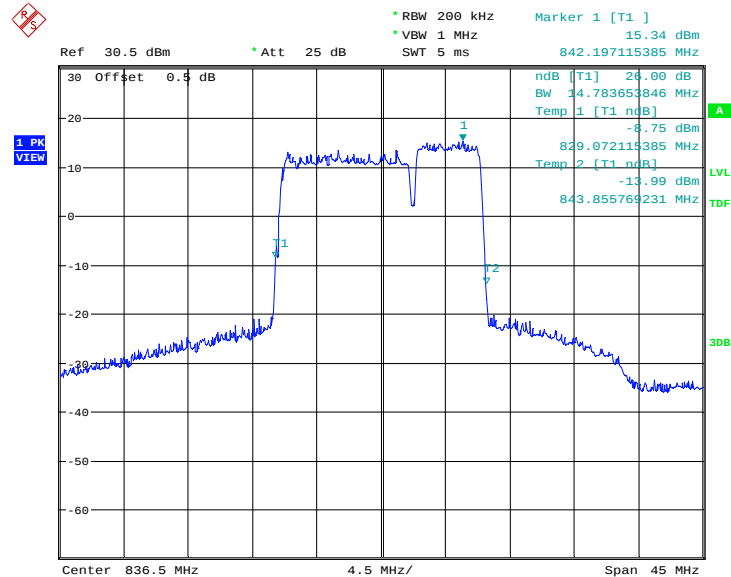


Date: 4.JUL.2022 15:57:44

LTE CA Band 5B, 10MHz+5MHz (-26dBc)

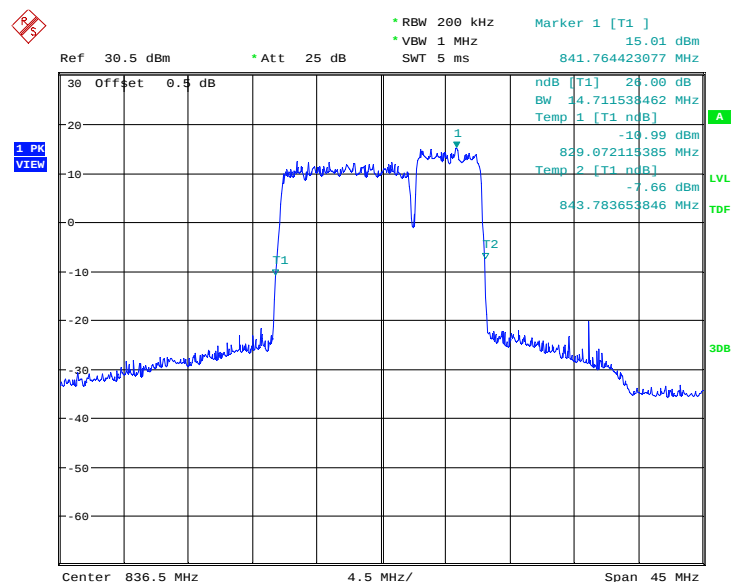
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
836.5	14.784	14.712

LTE CA Band 5B, 10MHz+5MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 15:59:00

LTE CA Band 5B, 10MHz+5MHz Bandwidth, 16QAM (-26dBc BW)

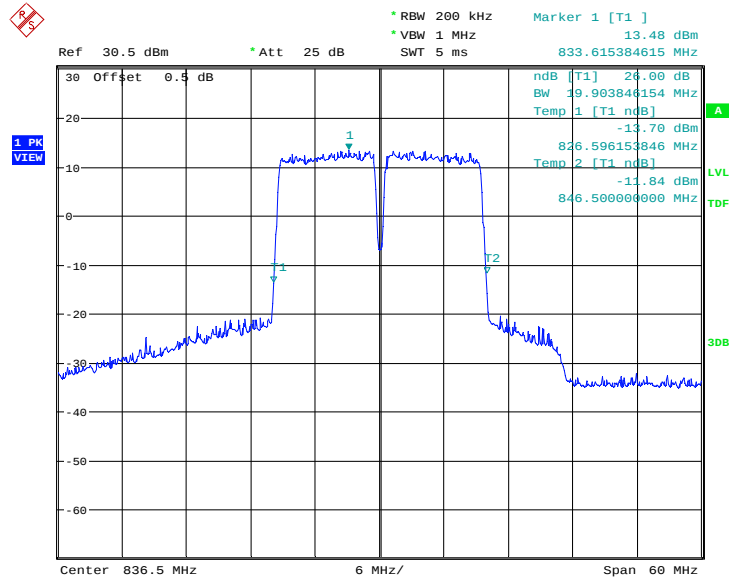


Date: 4.JUL.2022 15:59:23

LTE CA Band 5B, 10MHz+10MHz (-26dBc)

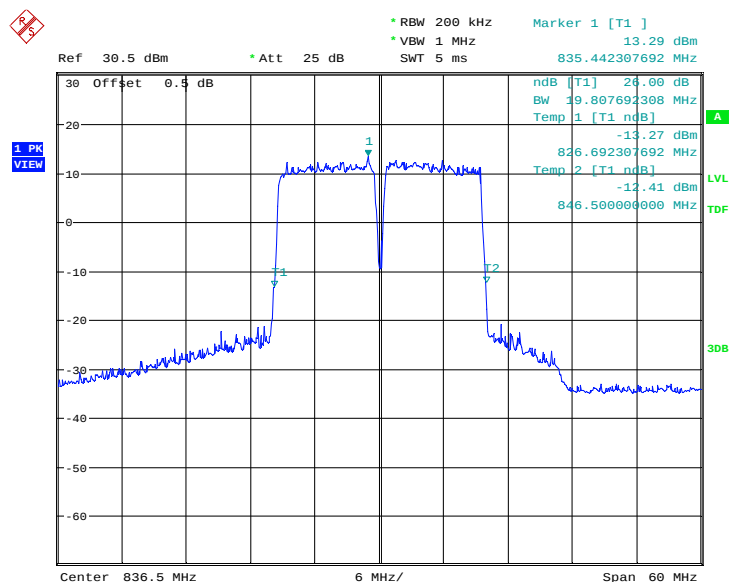
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
836.5	19.904	19.808

LTE CA Band 5B, 10MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:00:19

LTE CA Band 5B, 10MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

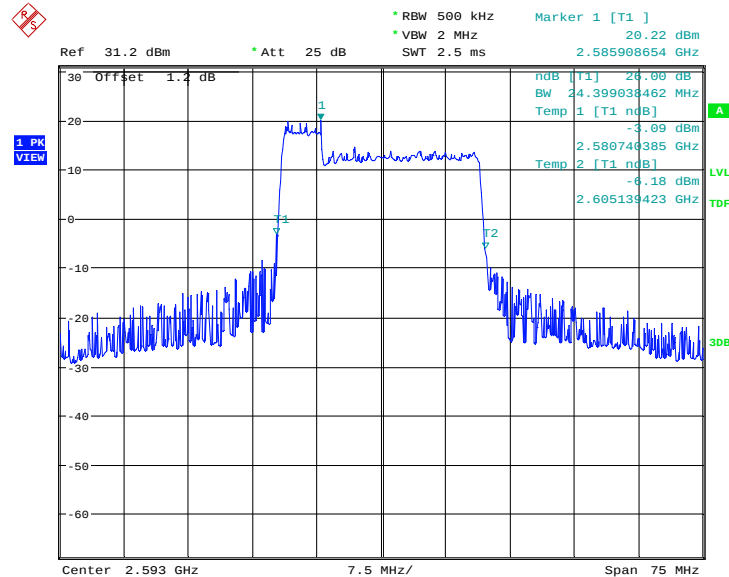


Date: 4.JUL.2022 16:00:42

LTE CA Band 41C, 5MHz+20MHz (-26dBc)

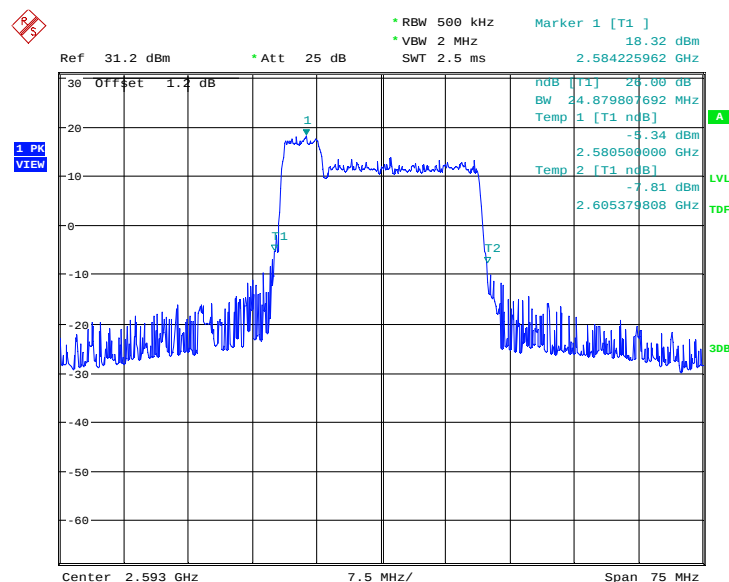
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593	24.399	24.880

LTE CA Band 41C, 5MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 10:21:49

LTE CA Band 41C, 5MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

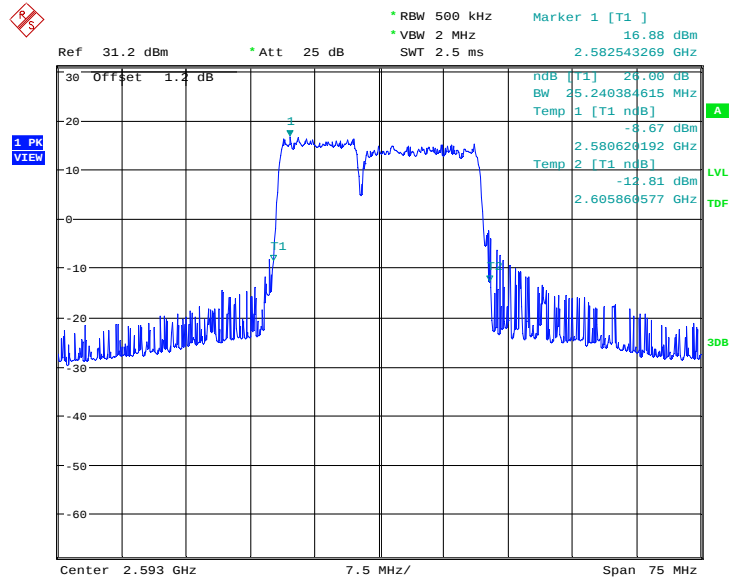


Date: 4.JUL.2022 10:22:11

LTE CA Band 41C, 10MHz+15MHz (-26dBc)

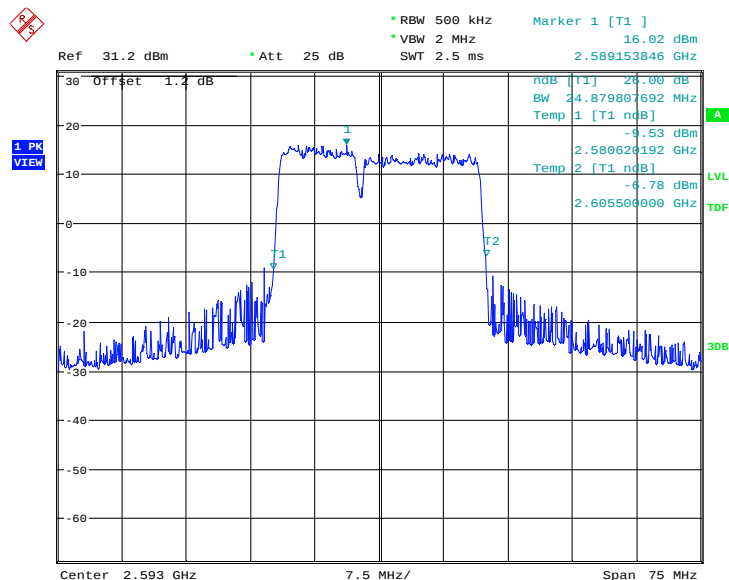
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593	25.240	24.880

LTE CA Band 41C, 10MHz+15MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 10:23:07

LTE CA Band 41C, 10MHz+15MHz Bandwidth, 16QAM (-26dBc BW)

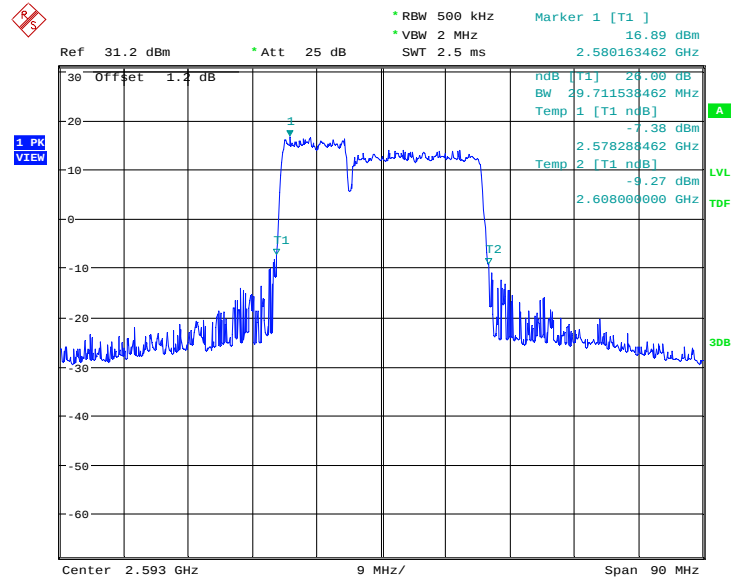


Date: 4.JUL.2022 10:23:28

LTE CA Band 41C, 10MHz+20MHz (-26dBc)

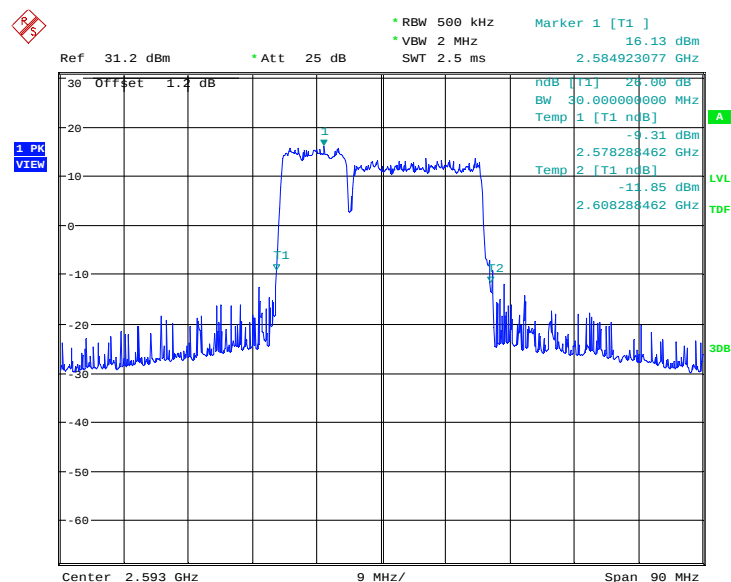
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593	29.712	30.000

LTE CA Band 41C, 10MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 10:24:24

LTE CA Band 41C, 10MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

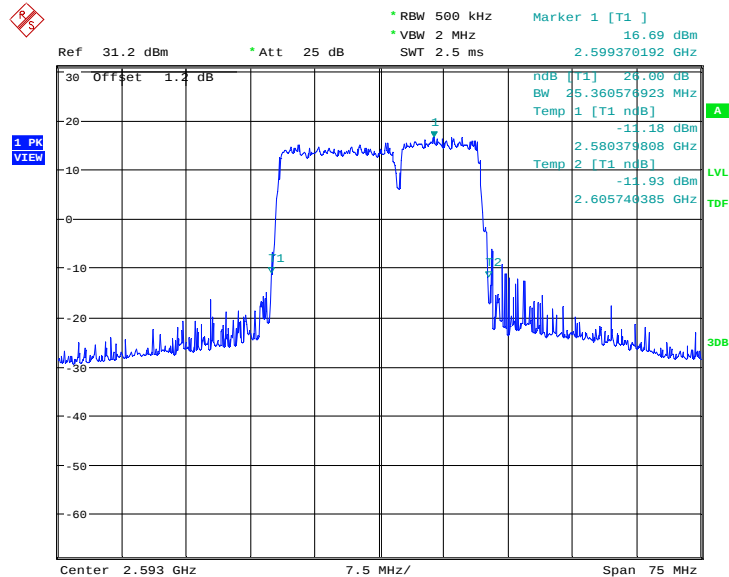


Date: 4.JUL.2022 10:24:46

LTE CA Band 41C, 15MHz+10MHz (-26dBc)

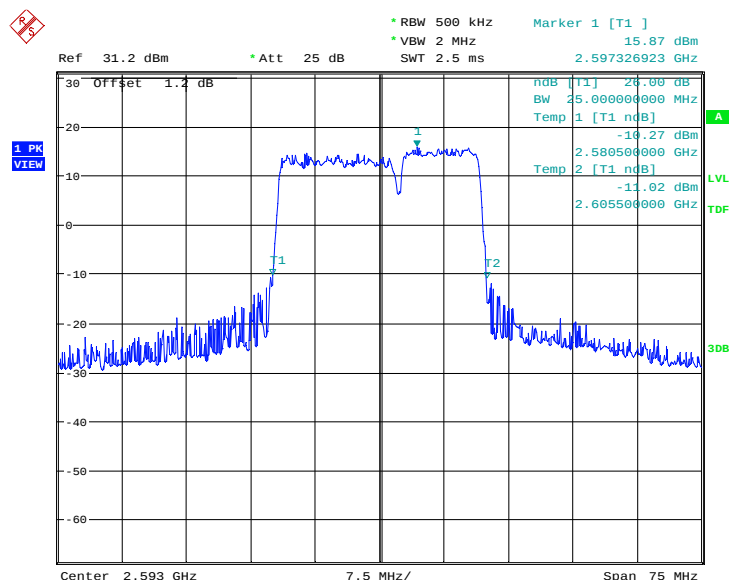
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593	25.361	25.000

LTE CA Band 41C, 15MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 10:25:41

LTE CA Band 41C, 15MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

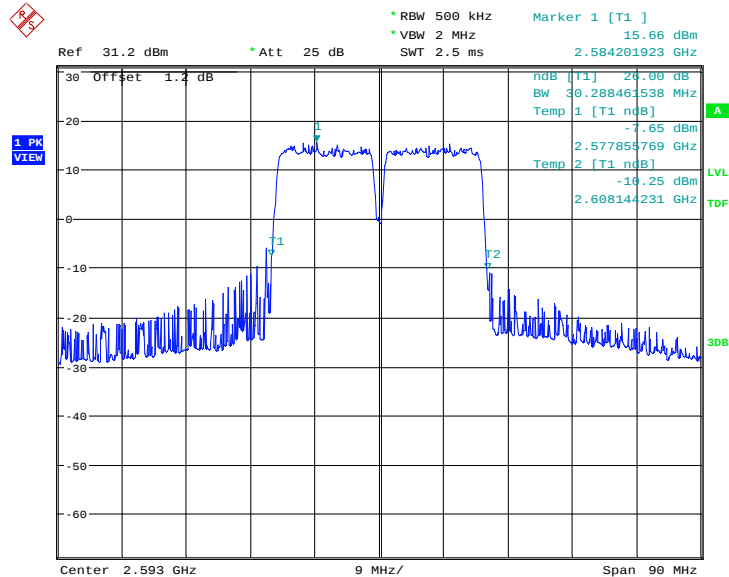


Date: 4.JUL.2022 10:26:03

LTE CA Band 41C, 15MHz+15MHz (-26dBc)

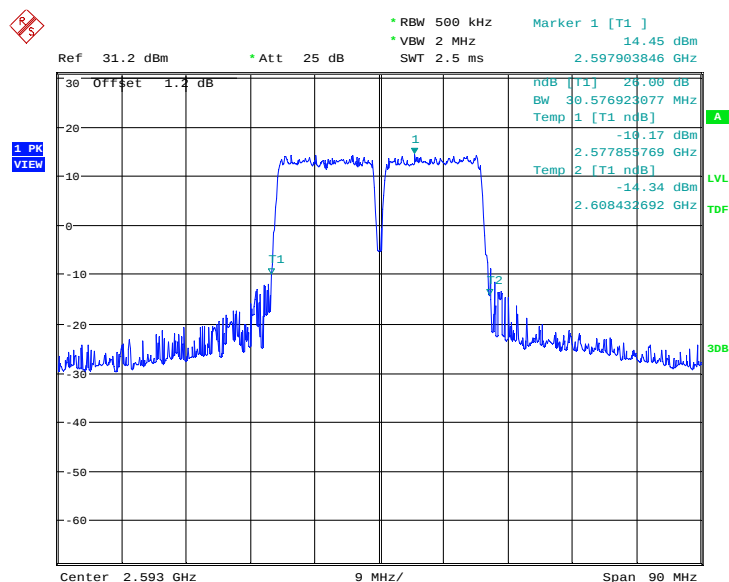
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593	30.288	30.577

LTE CA Band 41C, 15MHz+15MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 10:26:59

LTE CA Band 41C, 15MHz+15MHz Bandwidth, 16QAM (-26dBc BW)

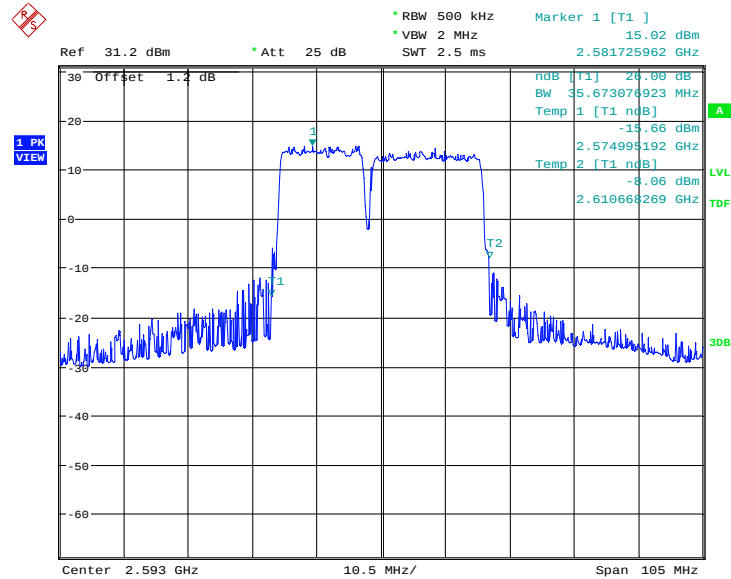


Date: 4.JUL.2022 10:27:21

LTE CA Band 41C, 15MHz+20MHz (-26dBc)

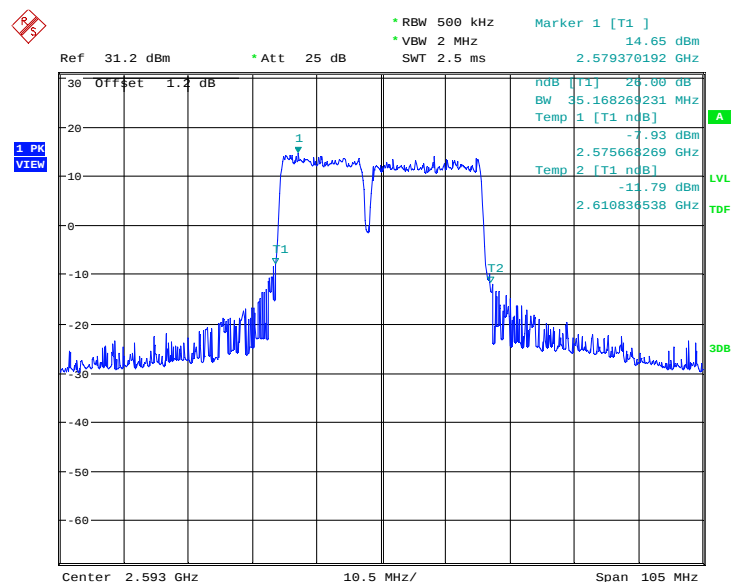
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593	35.673	35.168

LTE CA Band 41C, 15MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 10:28:16

LTE CA Band 41C, 15MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

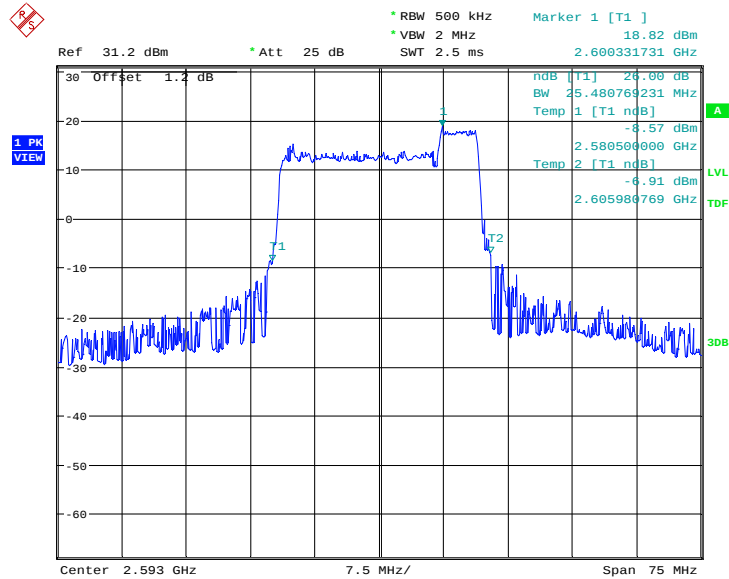


Date: 4.JUL.2022 10:28:38

LTE CA Band 41C, 20MHz+5MHz (-26dBc)

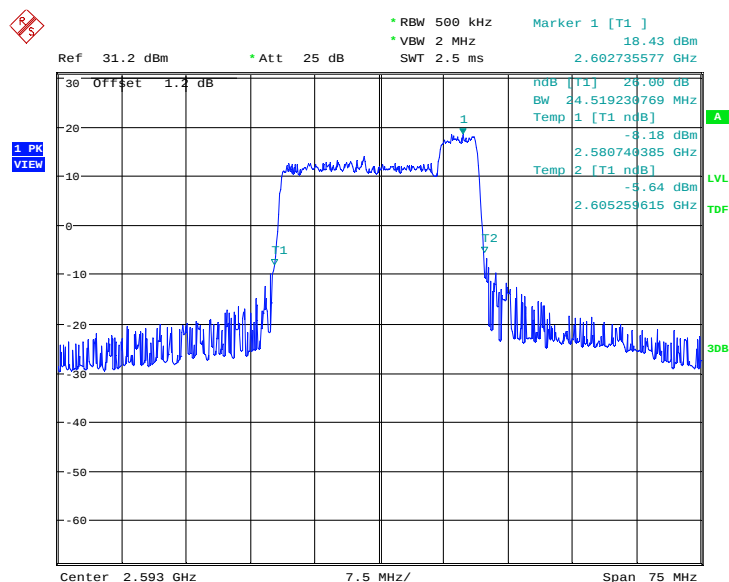
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593	25.481	24.519

LTE CA Band 41C, 20MHz+5MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 10:33:15

LTE CA Band 41C, 20MHz+5MHz Bandwidth, 16QAM (-26dBc BW)

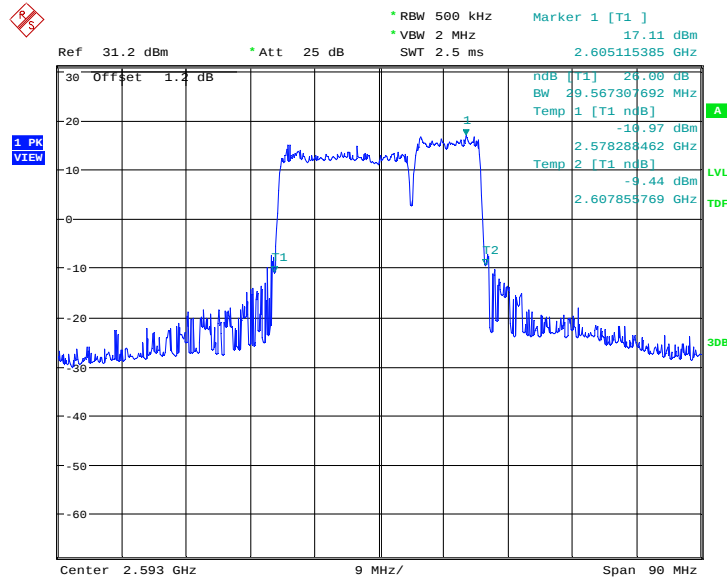


Date: 4.JUL.2022 10:33:37

LTE CA Band 41C, 20MHz+10MHz (-26dBc)

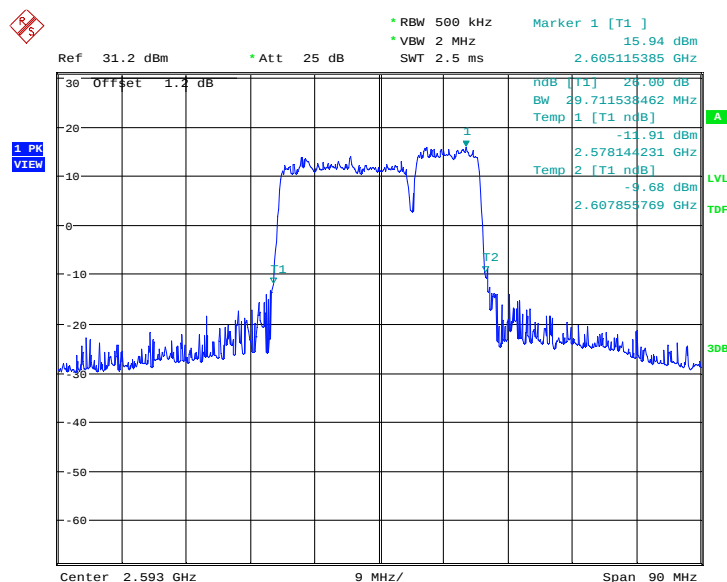
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593	29.567	29.712

LTE CA Band 41C, 20MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 10:34:42

LTE CA Band 41C, 20MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

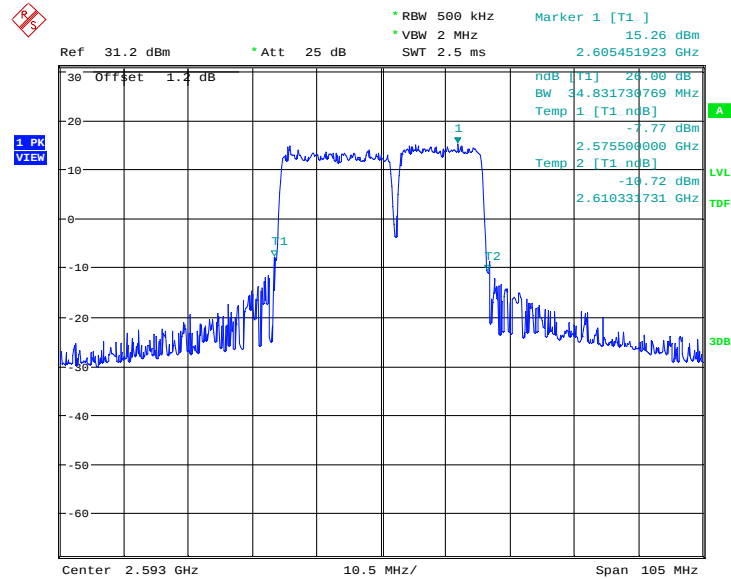


Date: 4.JUL.2022 10:35:03

LTE CA Band 41C, 20MHz+15MHz (-26dBc)

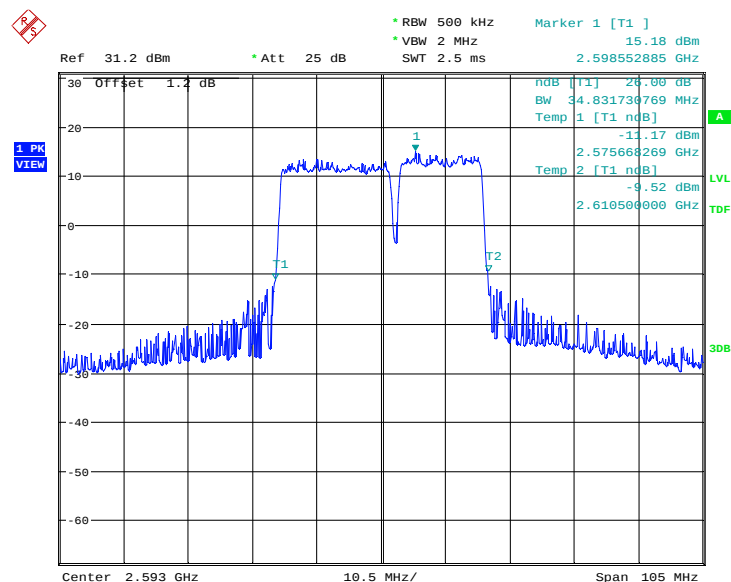
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593	34.832	34.832

LTE CA Band 41C, 20MHz+15MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 10:35:55

LTE CA Band 41C, 20MHz+15MHz Bandwidth, 16QAM (-26dBc BW)

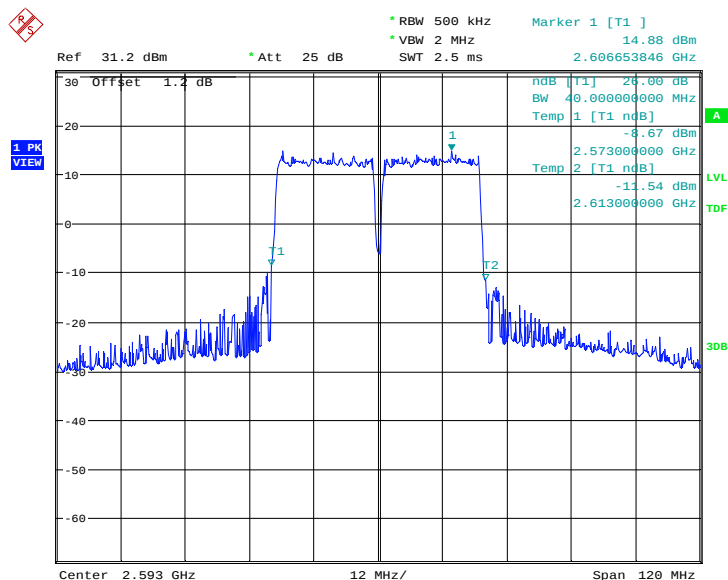


Date: 4.JUL.2022 10:36:17

LTE CA Band 41C, 20MHz+20MHz (-26dBc)

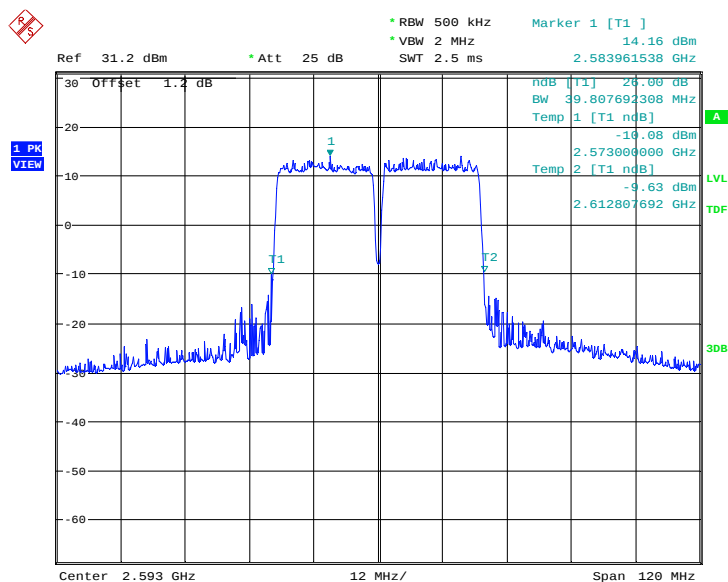
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593	40.000	39.808

LTE CA Band 41C, 20MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 10:37:11

LTE CA Band 41C, 20MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

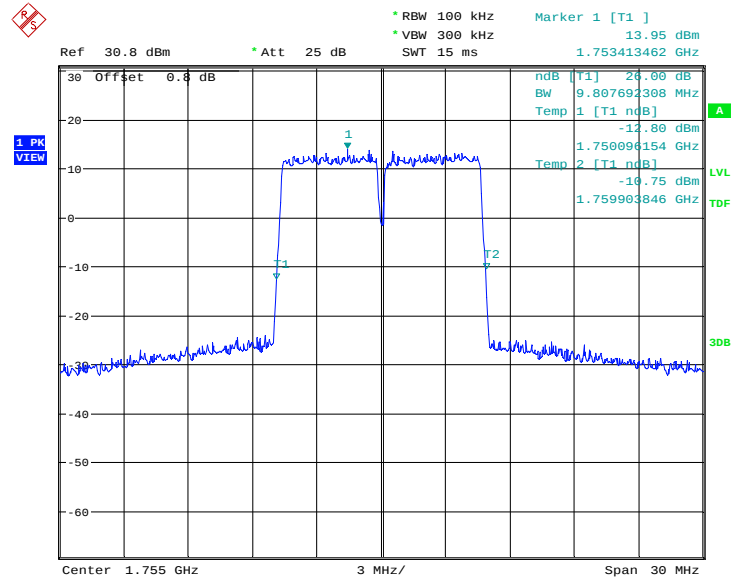


Date: 4.JUL.2022 10:37:33

LTE CA Band 66B, 5MHz+5MHz (-26dBc)

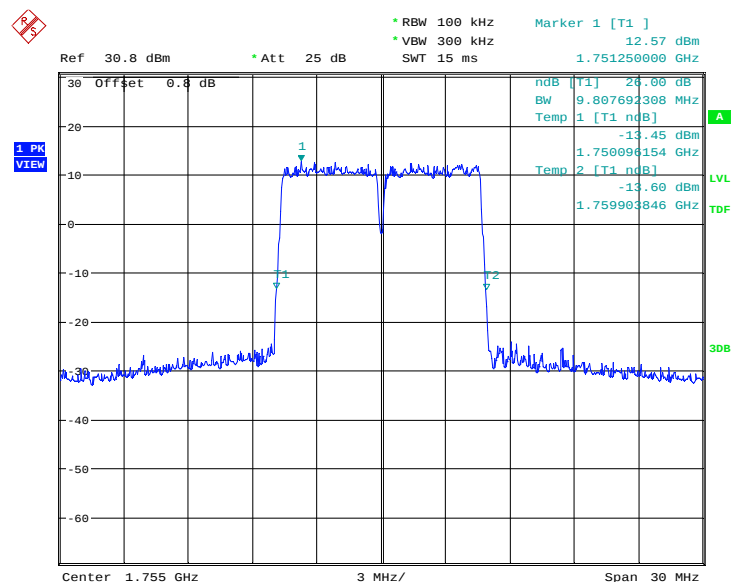
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	9.808	9.808

LTE CA Band 66B, 5MHz+5MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:01:45

LTE CA Band 66B, 5MHz+5MHz Bandwidth, 16QAM (-26dBc BW)

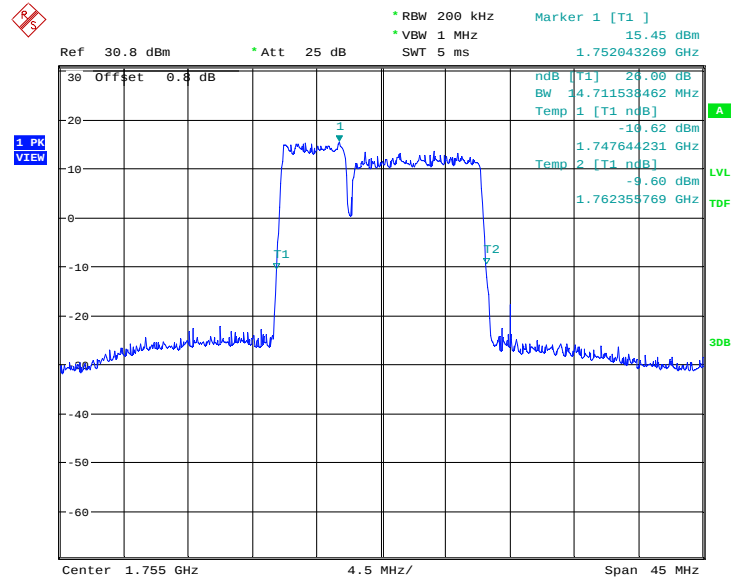


Date: 4.JUL.2022 16:02:08

LTE CA Band 66B, 5MHz+10MHz (-26dBc)

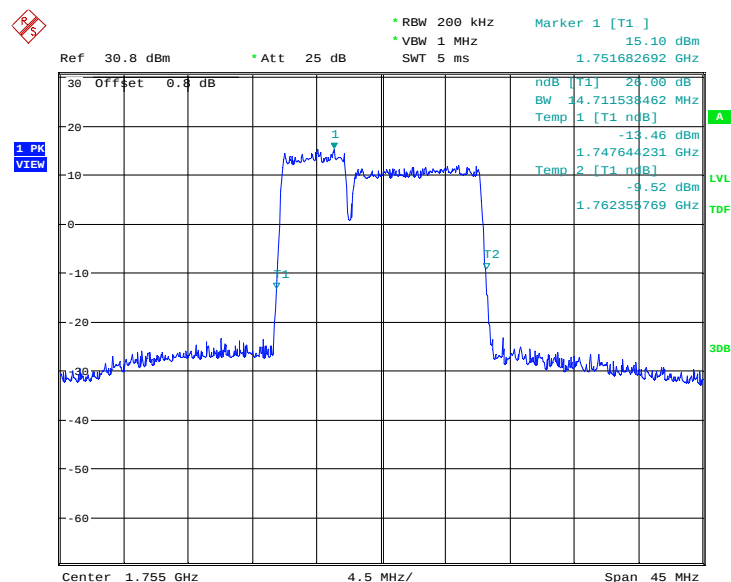
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	14.712	14.712

LTE CA Band 66B, 5MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:03:04

LTE CA Band 66B, 5MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

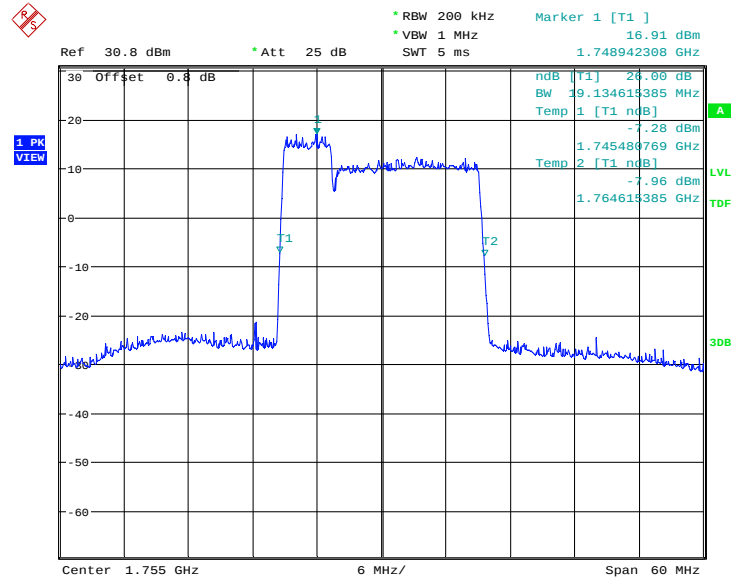


Date: 4.JUL.2022 16:03:26

LTE CA Band 66B, 5MHz+15MHz (-26dBc)

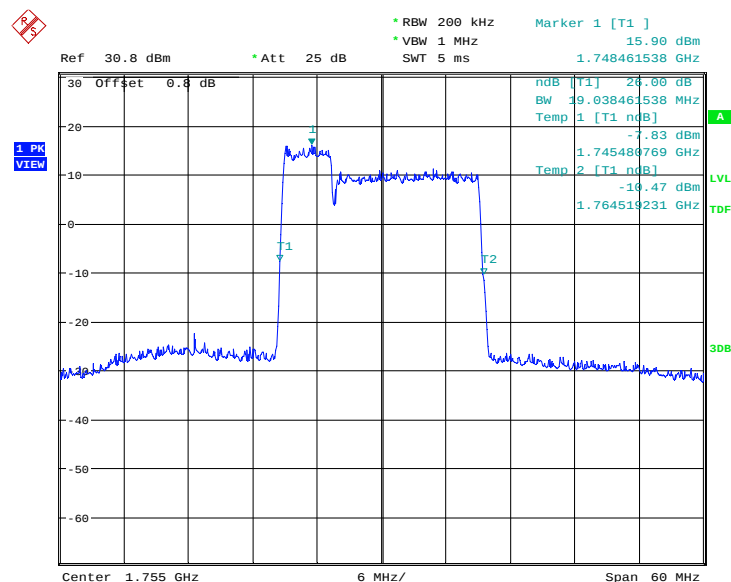
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	19.135	19.038

LTE CA Band 66B, 5MHz+15MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:04:22

LTE CA Band 66B, 5MHz+15MHz Bandwidth, 16QAM (-26dBc BW)

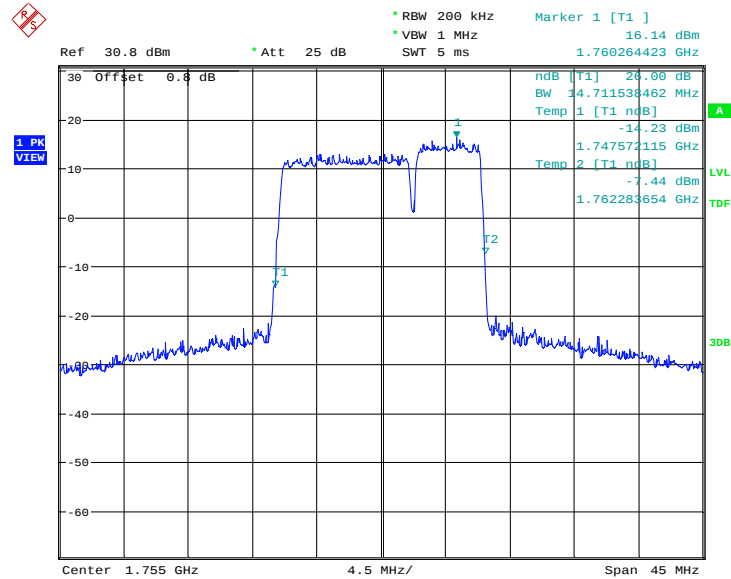


Date: 4.JUL.2022 16:04:45

LTE CA Band 66B, 10MHz+5MHz (-26dBc)

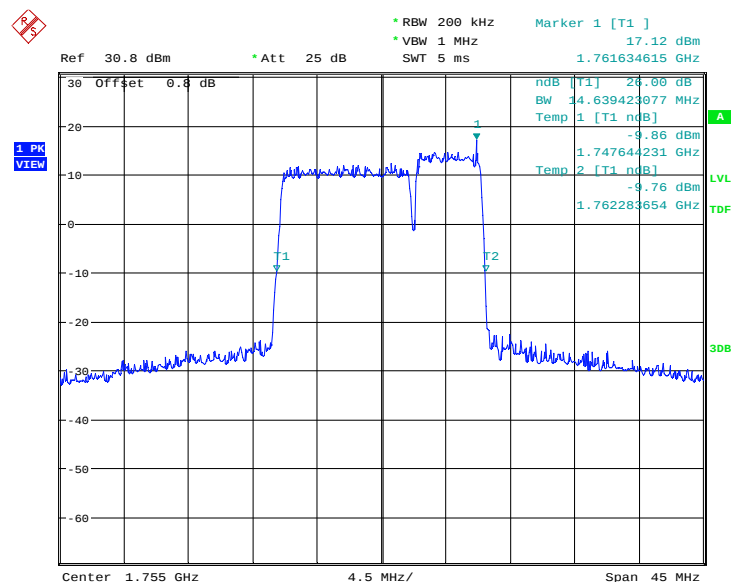
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	14.712	14.639

LTE CA Band 66B, 10MHz+5MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:05:42

LTE CA Band 66B, 10MHz+5MHz Bandwidth, 16QAM (-26dBc BW)

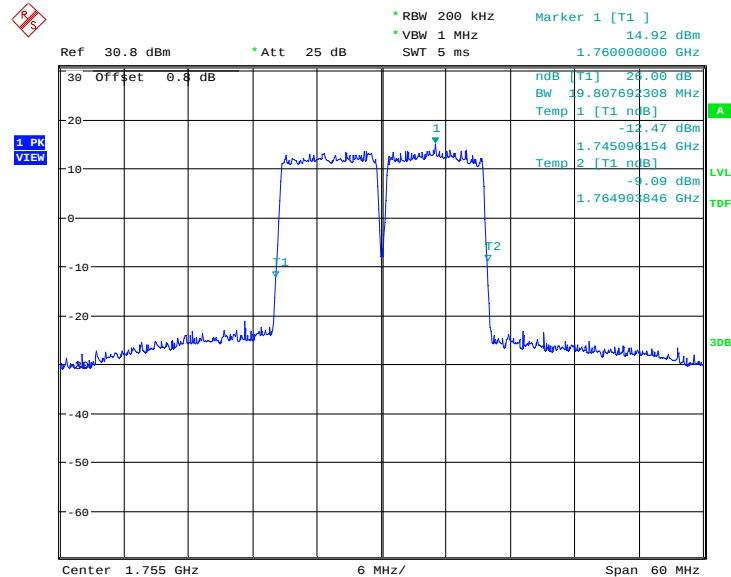


Date: 4.JUL.2022 16:06:05

LTE CA Band 66B, 10MHz+10MHz (-26dBc)

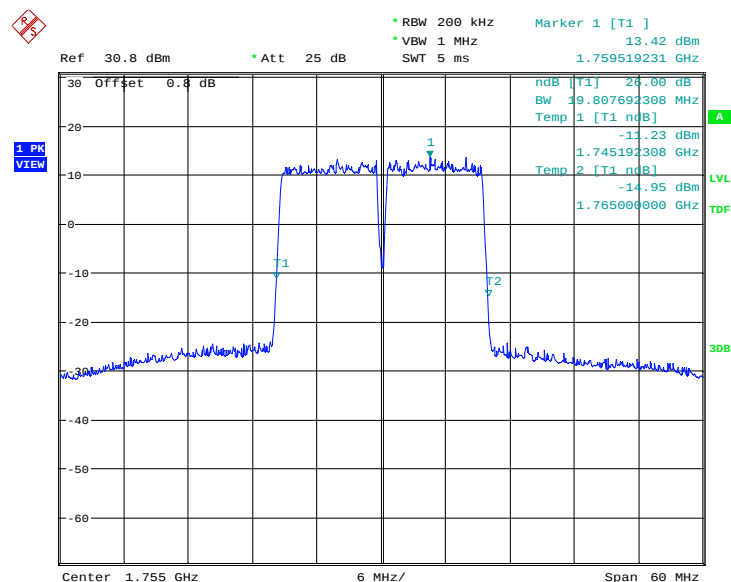
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	19.808	19.808

LTE CA Band 66B, 10MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:07:01

LTE CA Band 66B, 10MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

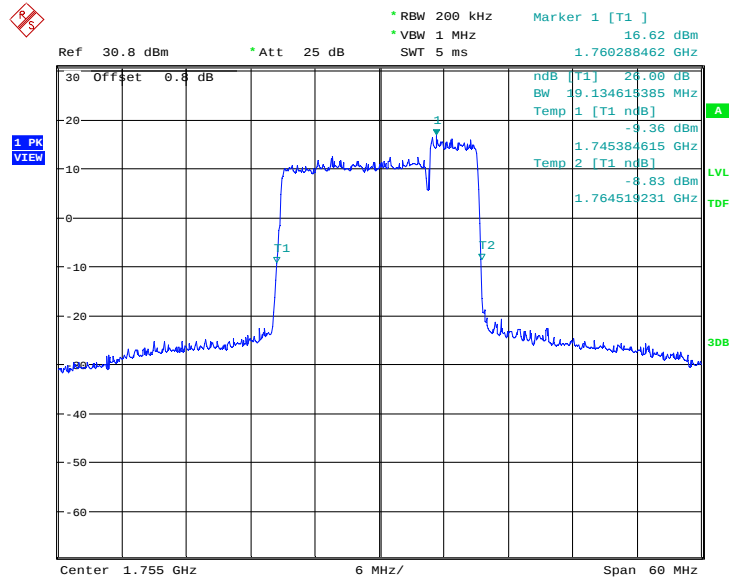


Date: 4.JUL.2022 16:07:24

LTE CA Band 66B, 15MHz+5MHz (-26dBc)

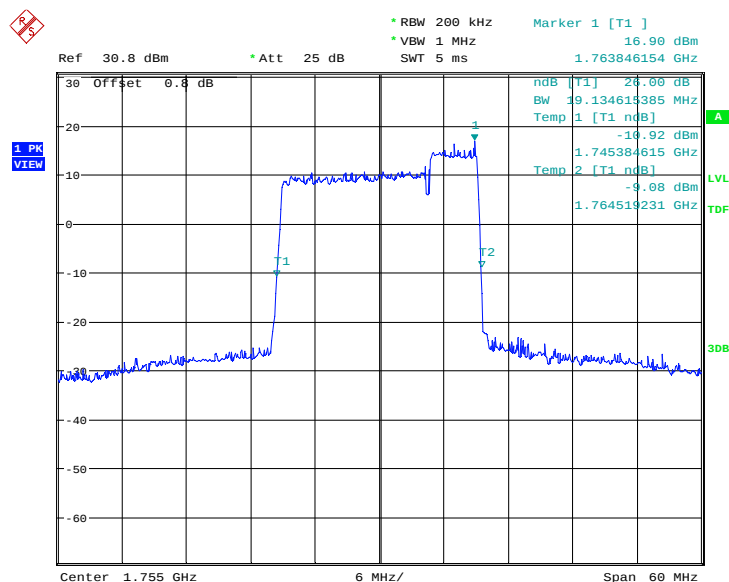
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	19.135	19.135

LTE CA Band 66B, 15MHz+5MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:08:21

LTE CA Band 66B, 15MHz+5MHz Bandwidth, 16QAM (-26dBc BW)

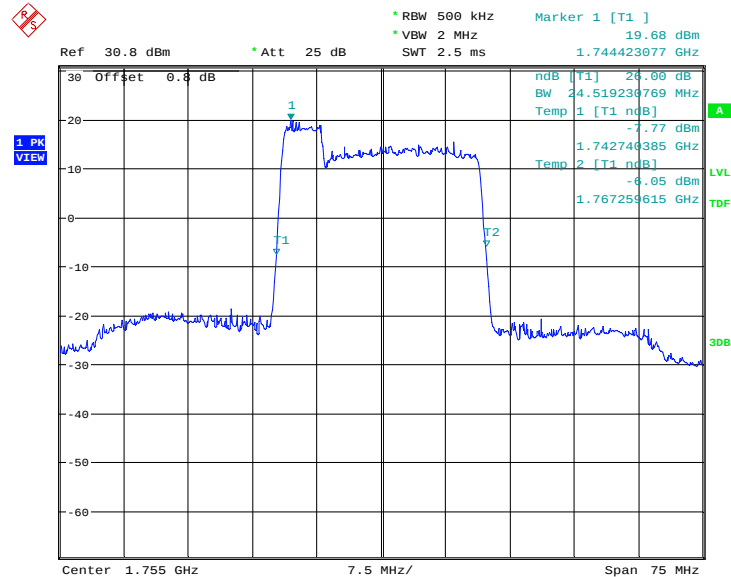


Date: 4.JUL.2022 16:08:44

LTE CA Band 66C, 5MHz+20MHz (-26dBc)

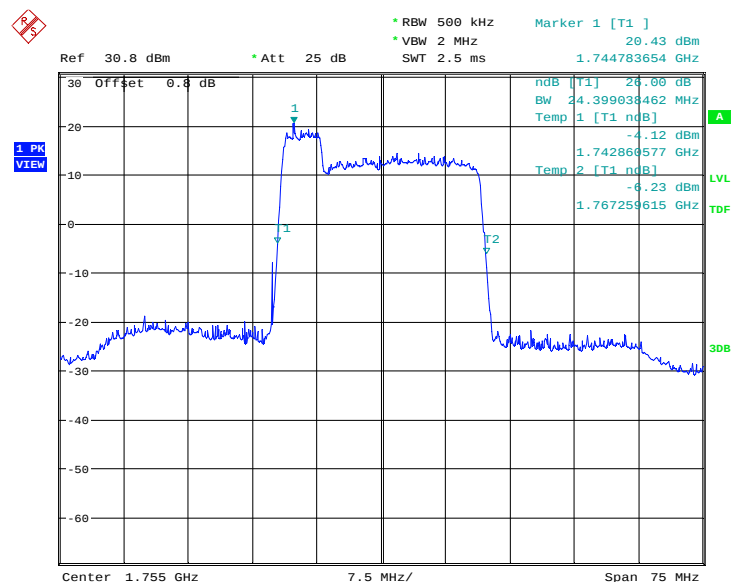
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	24.519	24.399

LTE CA Band 66C, 5MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:09:49

LTE CA Band 66C, 5MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

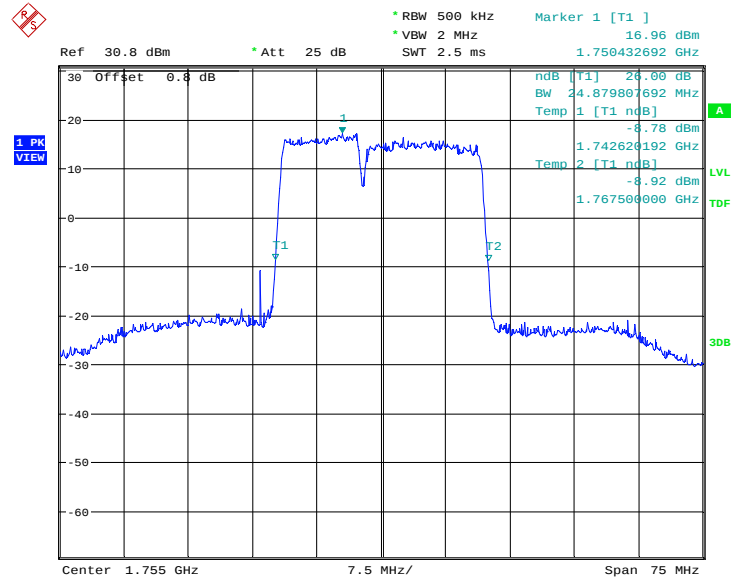


Date: 4.JUL.2022 16:10:15

LTE CA Band 66C, 10MHz+15MHz (-26dBc)

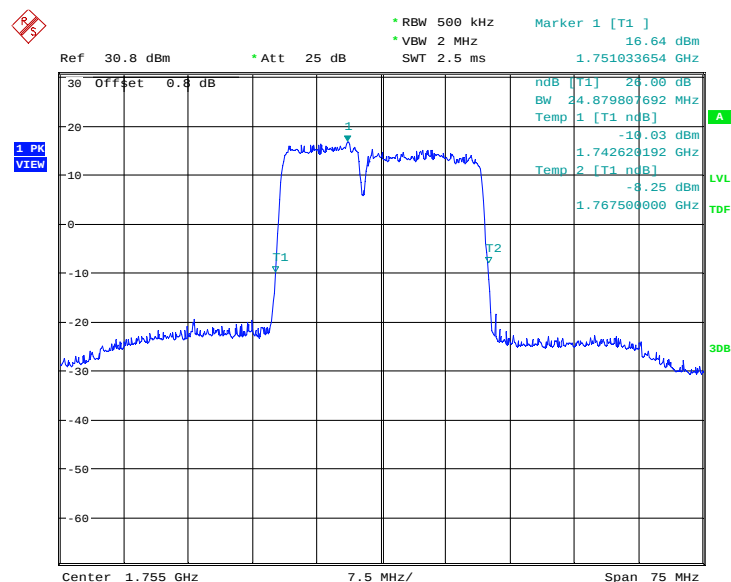
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	24.880	24.880

LTE CA Band 66C, 10MHz+15MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:11:20

LTE CA Band 66C, 10MHz+15MHz Bandwidth, 16QAM (-26dBc BW)

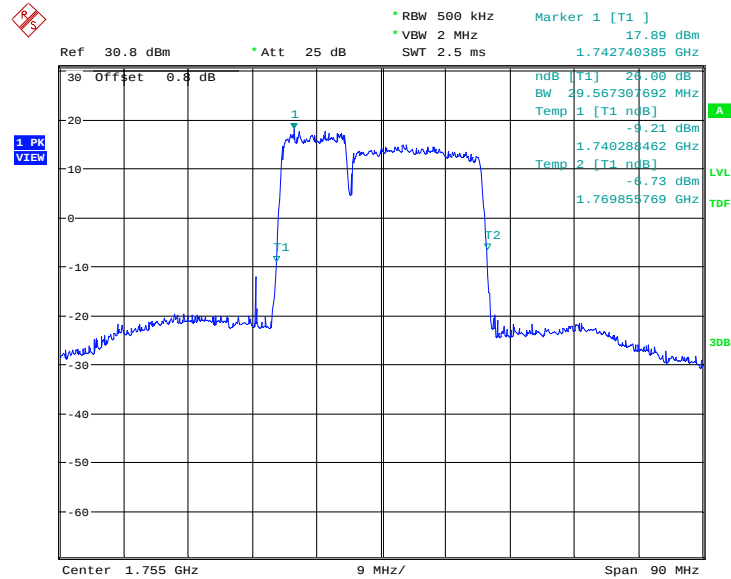


Date: 4.JUL.2022 16:11:43

LTE CA Band 66C, 10MHz+20MHz (-26dBc)

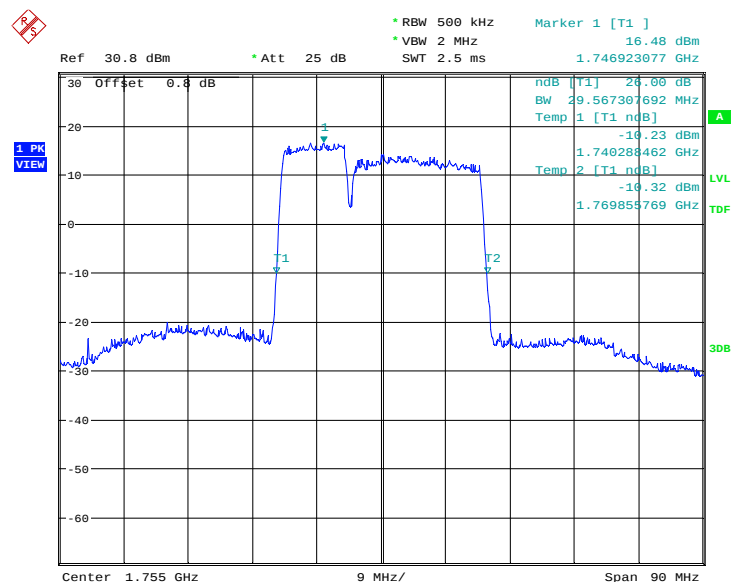
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	29.567	29.567

LTE CA Band 66C, 10MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:12:39

LTE CA Band 66C, 10MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

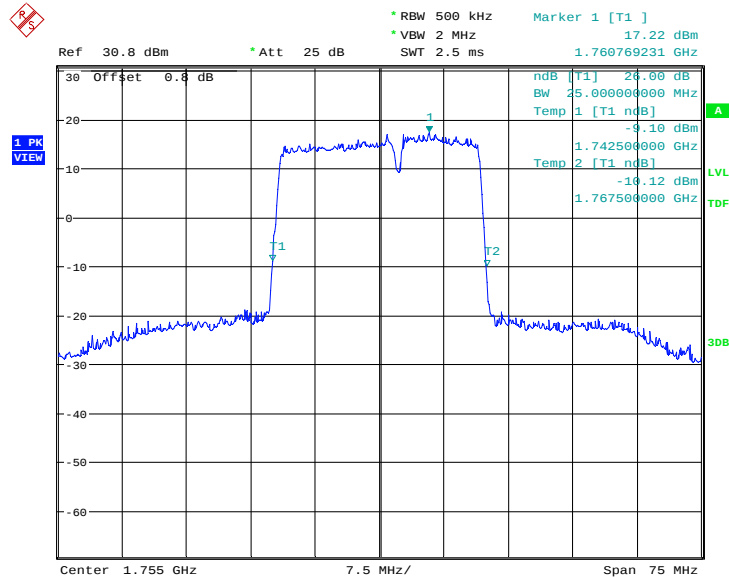


Date: 4.JUL.2022 16:13:02

LTE CA Band 66C, 15MHz+10MHz (-26dBc)

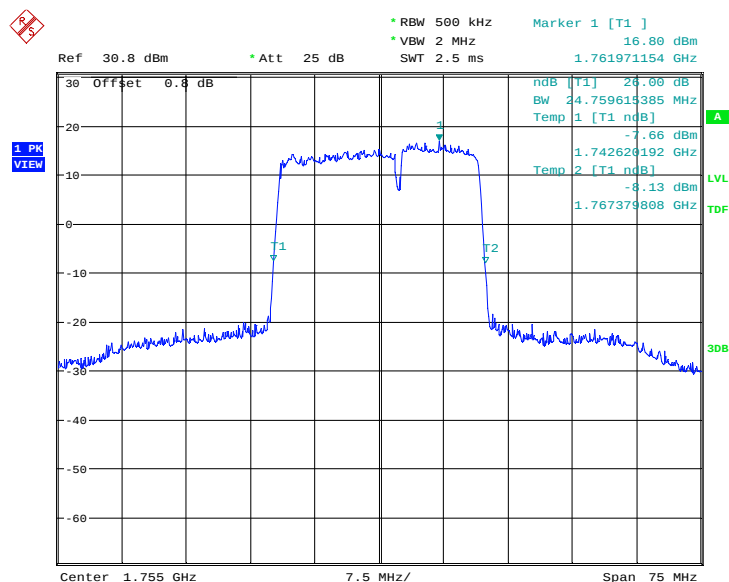
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	25.000	24.760

LTE CA Band 66C, 15MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:13:59

LTE CA Band 66C, 15MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

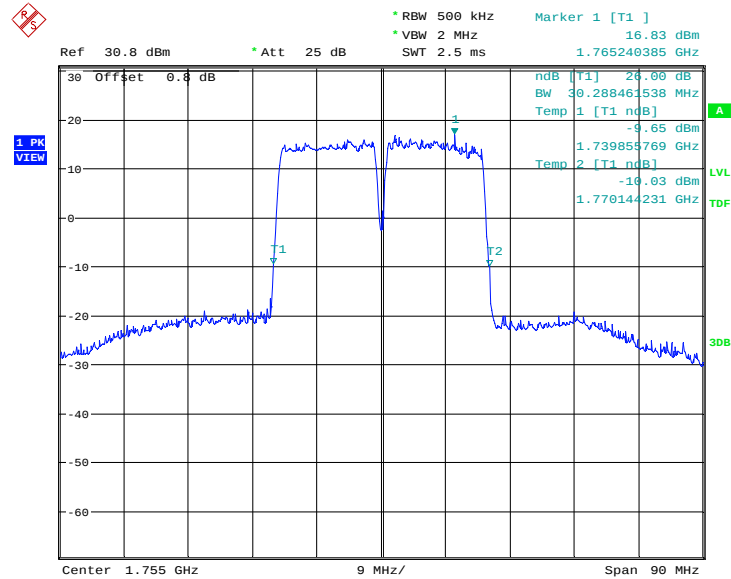


Date: 4.JUL.2022 16:14:22

LTE CA Band 66C, 15MHz+15MHz (-26dBc)

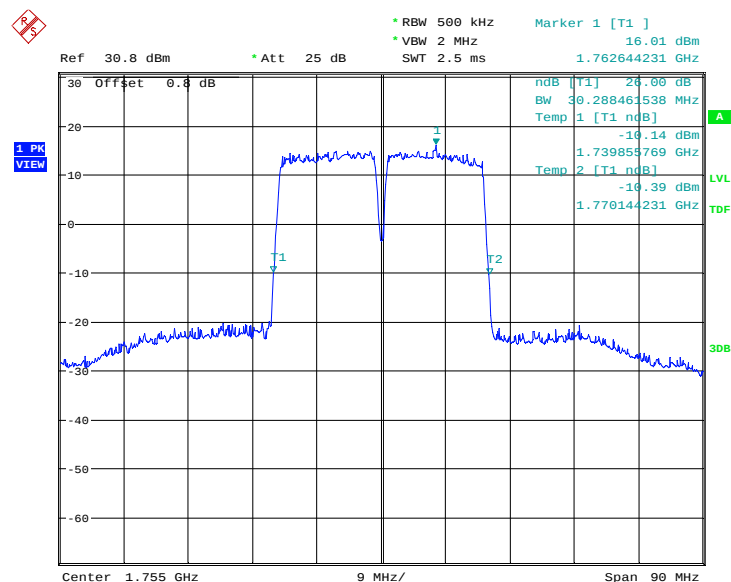
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	30.288	30.288

LTE CA Band 66C, 15MHz+15MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:15:22

LTE CA Band 66C, 15MHz+15MHz Bandwidth, 16QAM (-26dBc BW)

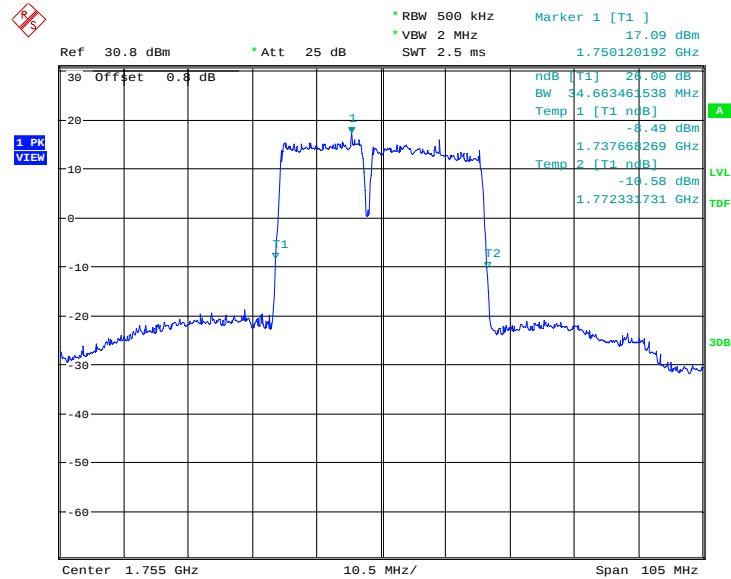


Date: 4.JUL.2022 16:15:45

LTE CA Band 66C, 15MHz+20MHz (-26dBc)

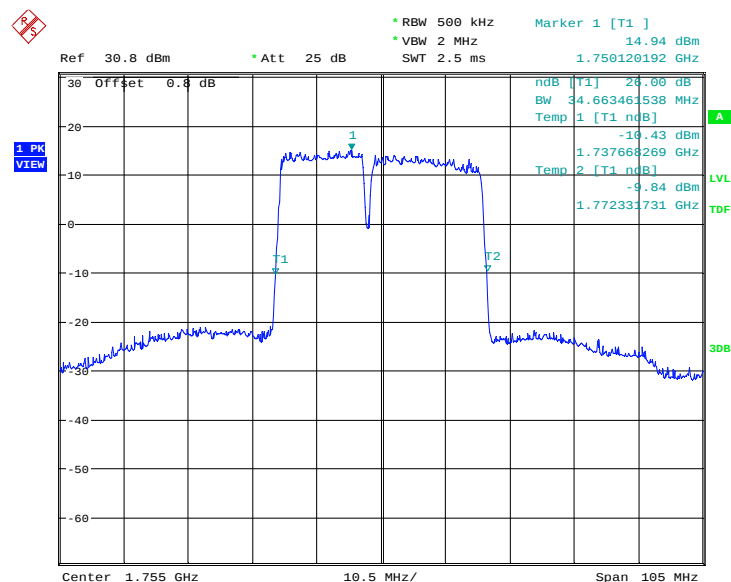
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	34.663	34.663

LTE CA Band 66C, 15MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:16:41

LTE CA Band 66C, 15MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

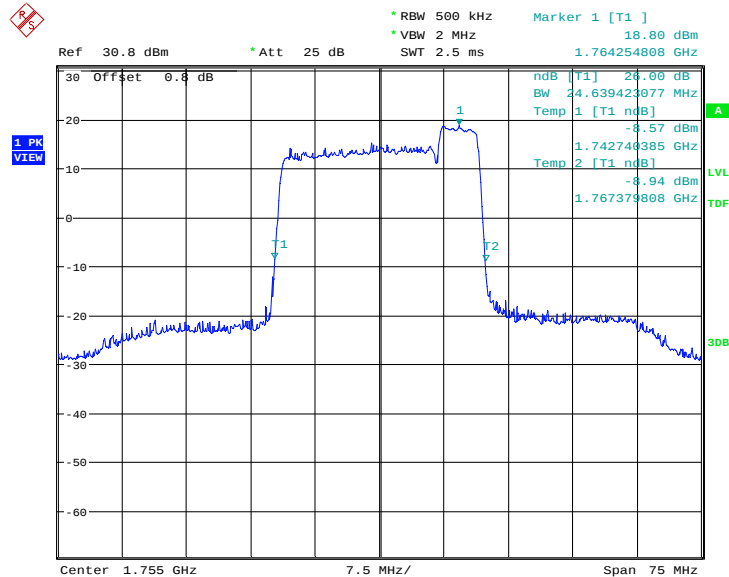


Date: 4.JUL.2022 16:17:07

LTE CA Band 66C, 20MHz+5MHz (-26dBc)

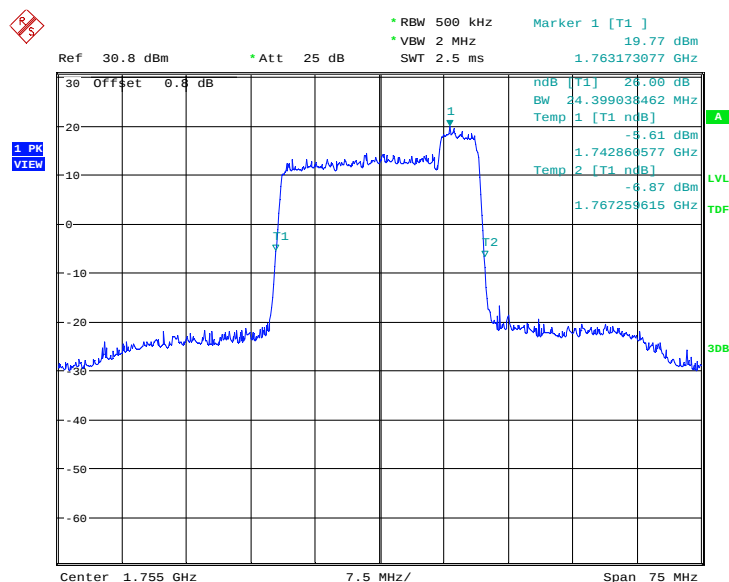
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	24.639	24.399

LTE CA Band 66C, 20MHz+5MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:18:04

LTE CA Band 66C, 20MHz+5MHz Bandwidth, 16QAM (-26dBc BW)

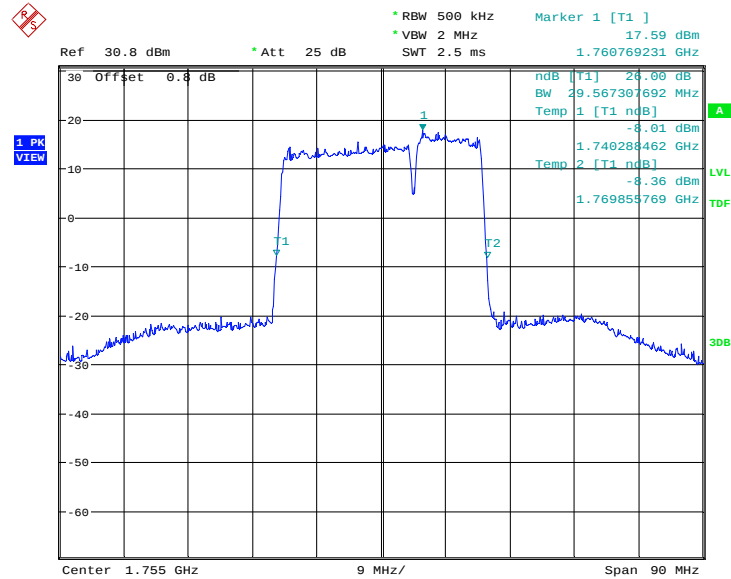


Date: 4.JUL.2022 16:18:27

LTE CA Band 66C, 20MHz+10MHz (-26dBc)

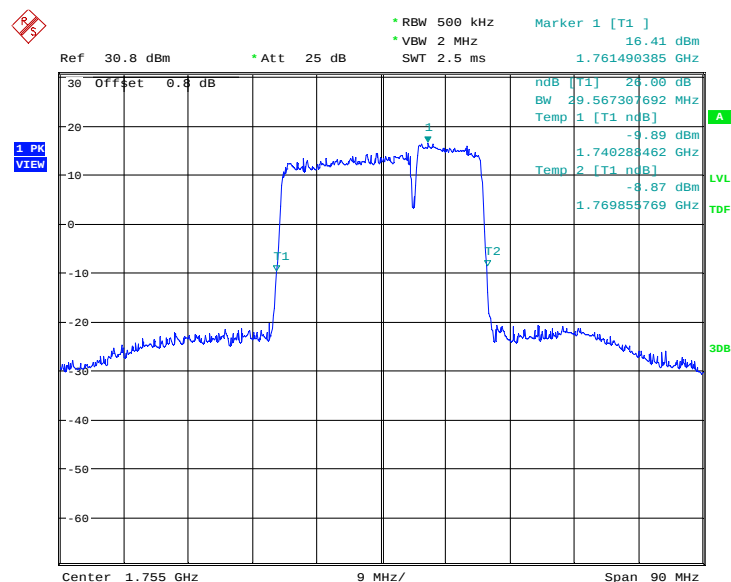
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	29.567	29.567

LTE CA Band 66C, 20MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:19:23

LTE CA Band 66C, 20MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

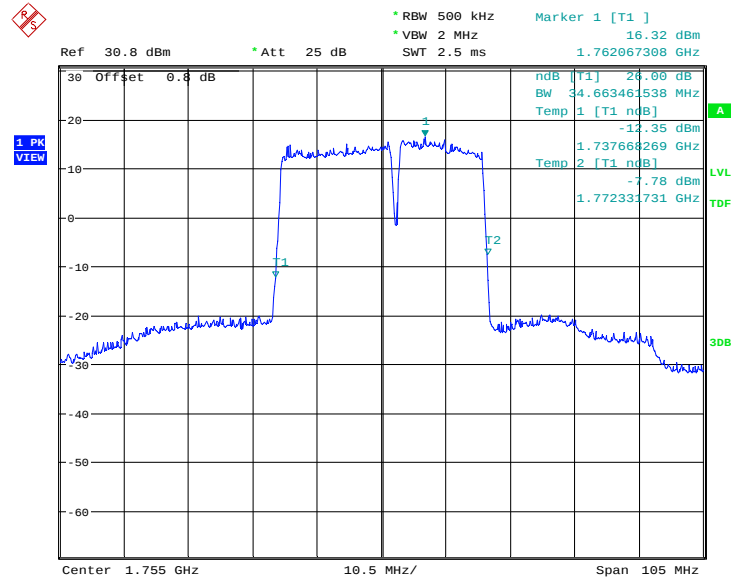


Date: 4.JUL.2022 16:19:46

LTE CA Band 66C, 20MHz+15MHz (-26dBc)

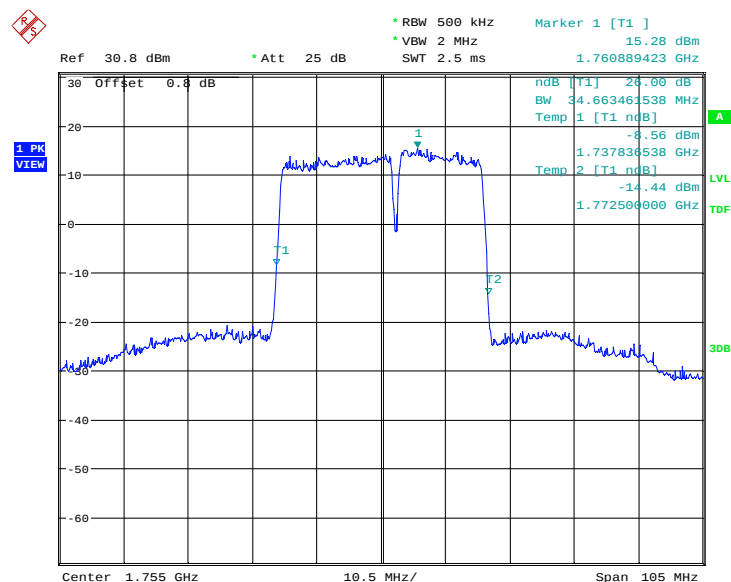
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	34.663	34.663

LTE CA Band 66C, 20MHz+15MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:20:42

LTE CA Band 66C, 20MHz+15MHz Bandwidth, 16QAM (-26dBc BW)

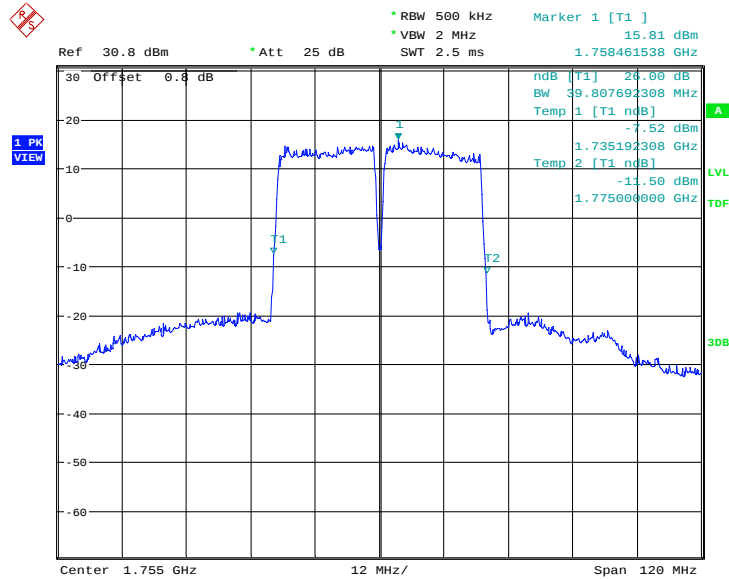


Date: 4.JUL.2022 16:21:05

LTE CA Band 66C, 20MHz+20MHz (-26dBc)

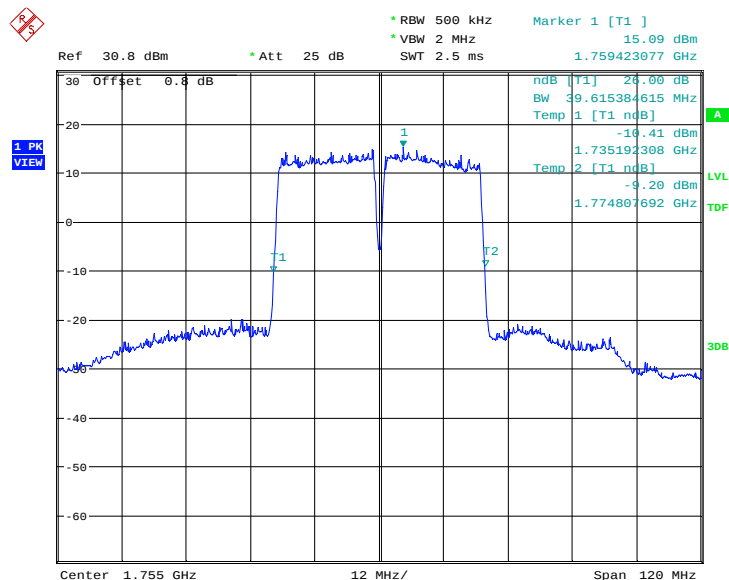
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755	39.808	39.615

LTE CA Band 66C, 20MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.JUL.2022 16:22:01

LTE CA Band 66C, 20MHz+20MHz Bandwidth, 16QAM (-26dBc BW)



Date: 4.JUL.2022 16:22:24

A.6 Band Edge Compliance

A.6.1 Measurement limit

Part 22.917, Part 24.238 and Part 27.53(h) specify that 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.

Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Part 27.53(c) states for operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following: (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB; (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB; (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

Part 27.53(g) states 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.

Part 27.53(a) states for mobile and portable stations operating in the 2305–2315 MHz and 2350–2360 MHz bands: By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz; By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 +$

10 log (P) dB below 2288 MHz; By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

Part 90.543 states that for operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee’s frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following: (1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations. (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations. (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB. (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment. (5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

Part 90.691 states that out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows: For any frequency removed from the EA licensee’s frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. For any frequency removed from the EA licensee’s frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

Part 96.41(e) states for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

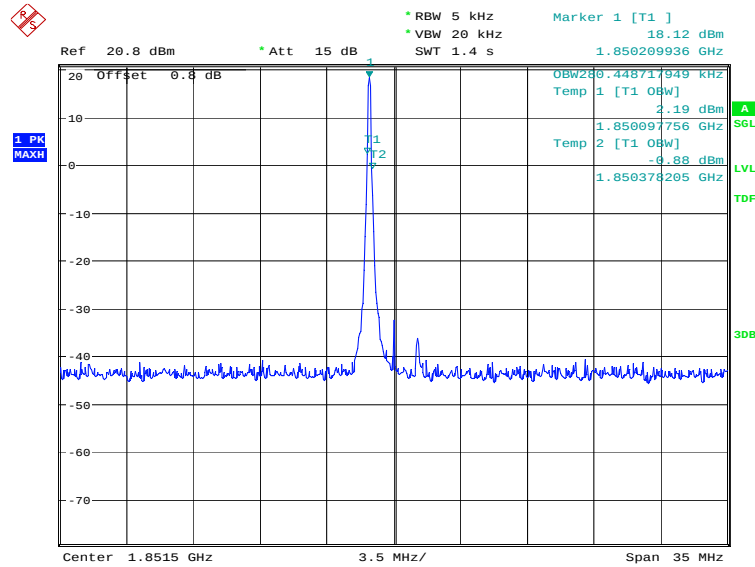
The spectrum analyzer readings are corrected by $[10 \log (1/\text{duty cycle})]$ for the non-continuous transmitting scenario.

A.6.2 Measurement result

Only the worst case result is given below

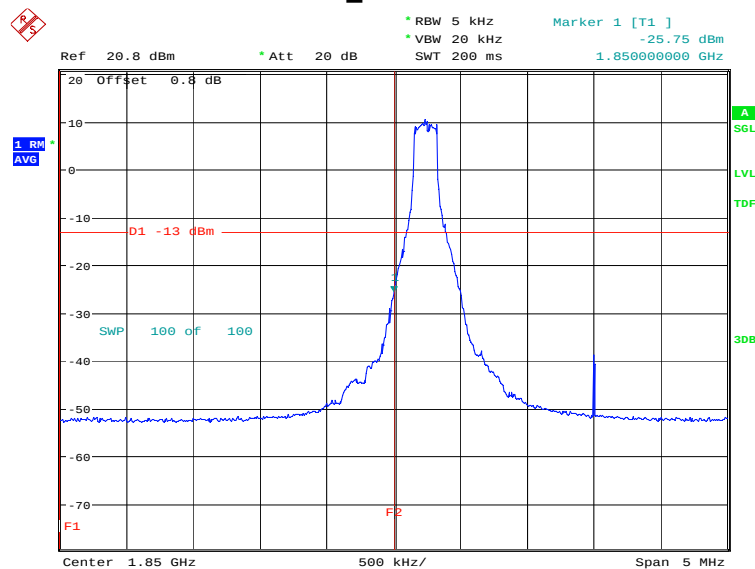
LTE band 2

OBW: 1RB-low_offset



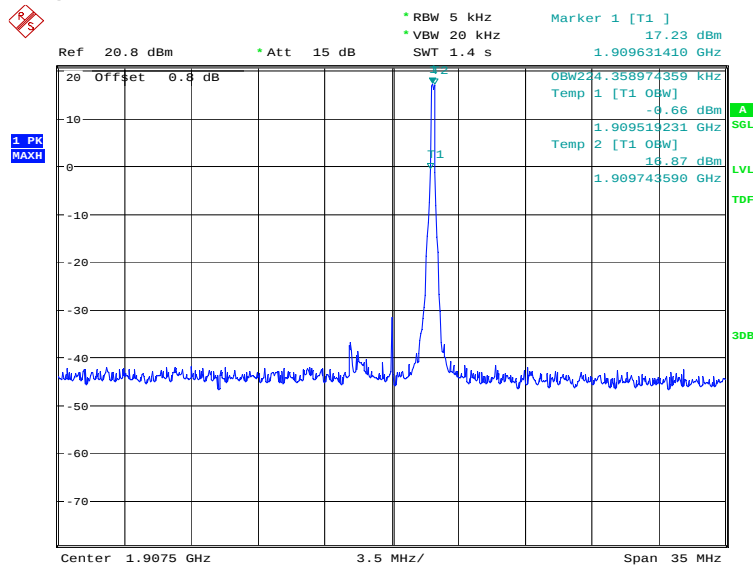
Date: 12.JUL.2022 18:49:55

LOW BAND EDGE BLOCK-1RB-low_offset



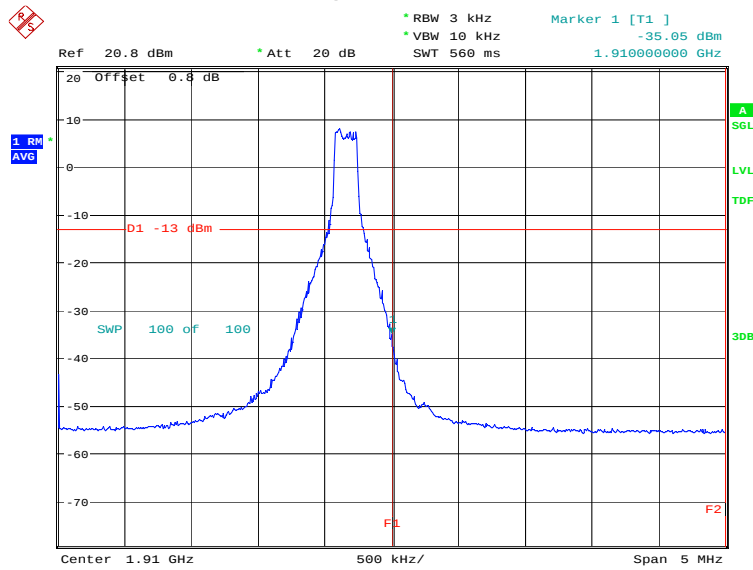
Date: 12.JUL.2022 18:51:09

OBW: 1RB-high_offset



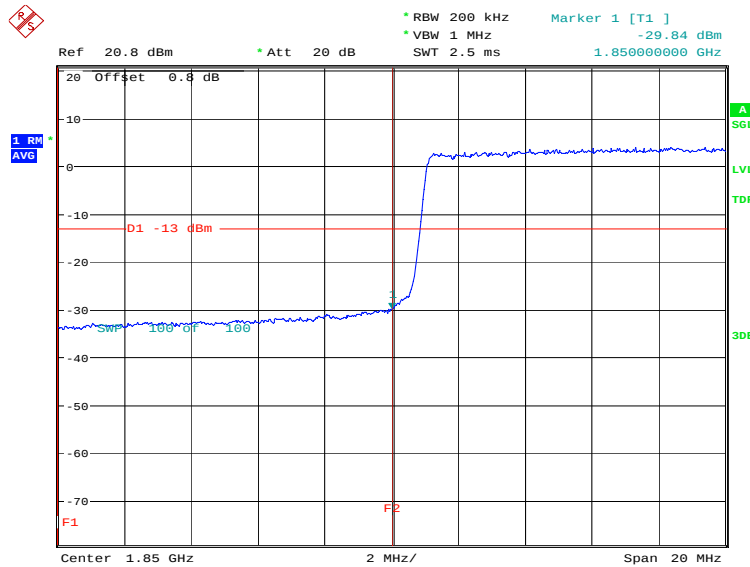
Date: 12.JUL.2022 18:57:04

HIGH BAND EDGE BLOCK-1RB-high_offset



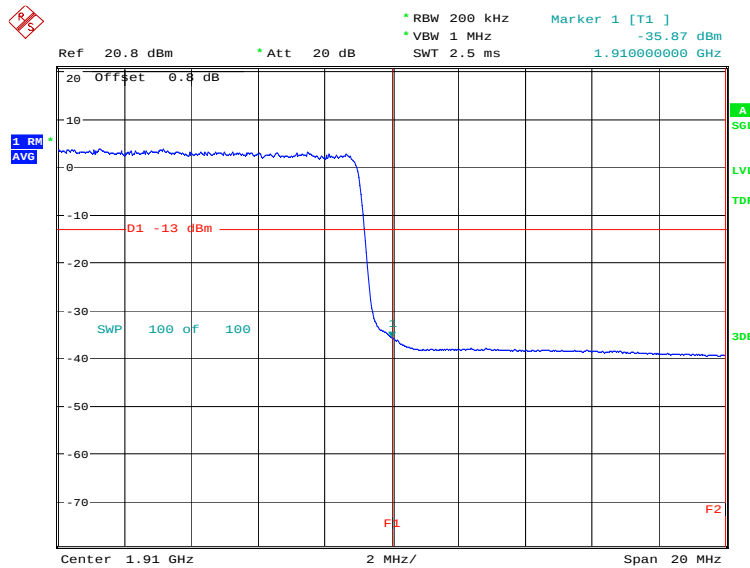
Date: 12.JUL.2022 18:58:18

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 12.JUL.2022 18:51:57

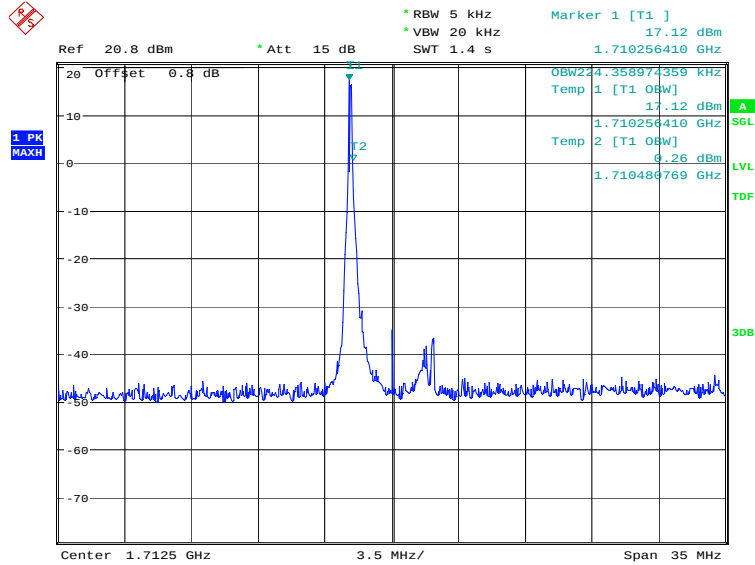
HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 12.JUL.2022 18:59:05

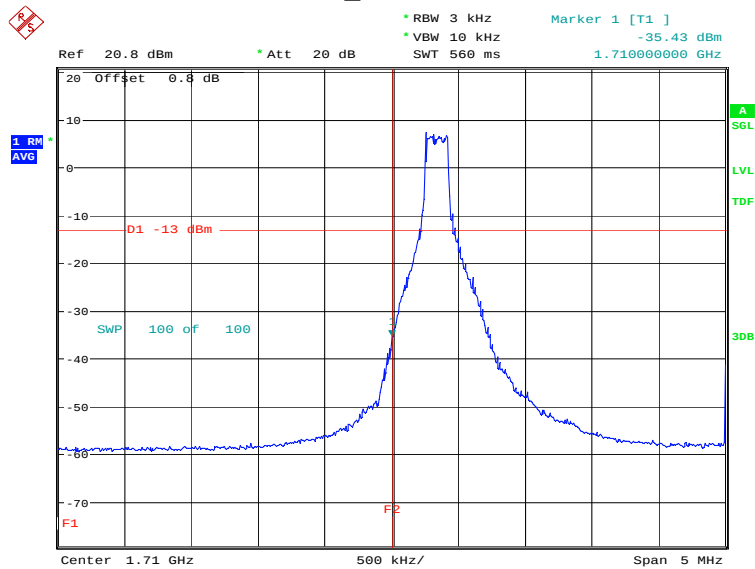
LTE band 4

OBW: 1RB-low_offset



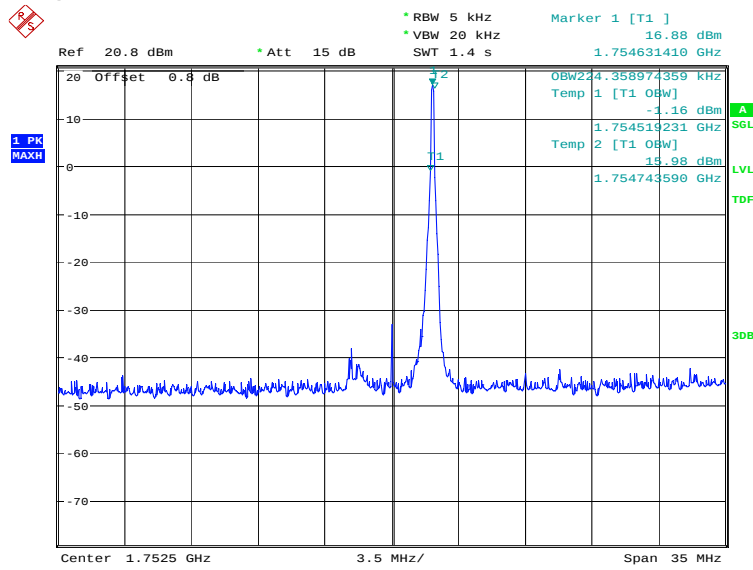
Date: 12.JUL.2022 19:01:40

LOW BAND EDGE BLOCK-1RB-low_offset



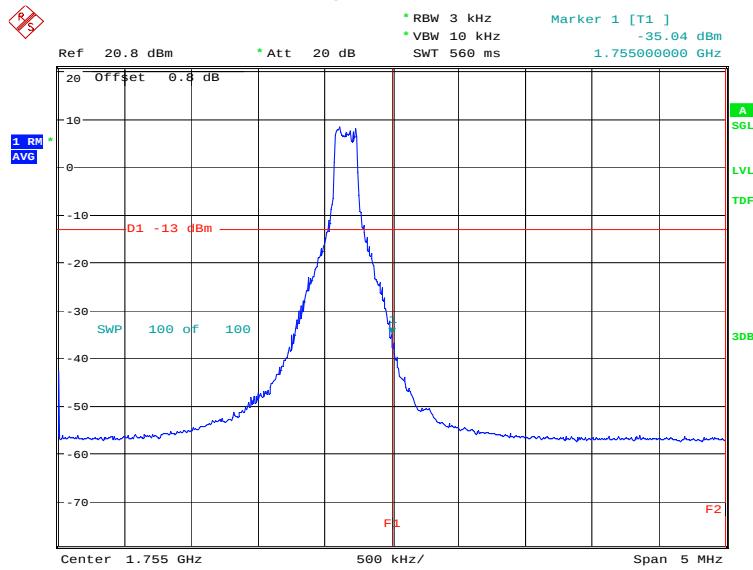
Date: 12.JUL.2022 19:02:54

OBW: 1RB-high_offset



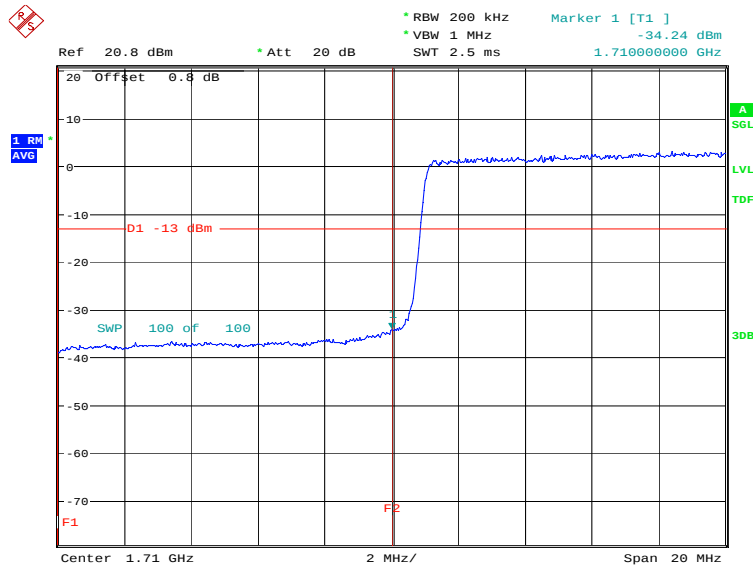
Date: 12.JUL.2022 19:07:50

HIGH BAND EDGE BLOCK-1RB-high_offset



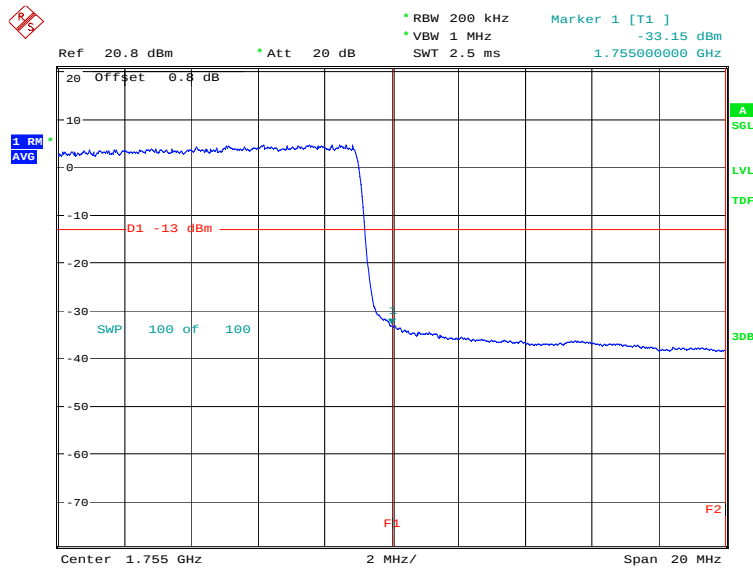
Date: 12.JUL.2022 19:09:04

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 12.JUL.2022 19:03:30

HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 12.JUL.2022 19:10:20