



TEST REPORT

No. I22Z60412-WMD03

for

HMD Global Oy

TA-1448

Model Name: TA-1448

FCC ID: 2AJOTTA-1448

with

Hardware Version: v1.0

Software Version: 04US_1_150

Issued Date: 2022-05-27

Note:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z60412-WMD03	Rev.0	1 st edition	2022-05-27

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: 2022-03-24
Testing End Date: 2022-05-25

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: HMD Global Oy
Address /Post: Bertel Jungin aukio 9 02600 Espoo Finland
Contact: /
Email: /
Telephone: /
Fax: /

2.2. Manufacturer Information

Company Name: HMD Global Oy
Address /Post: Bertel Jungin aukio 9 02600 Espoo Finland
Contact: /
Email: /
Telephone: /
Fax: /

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

3.1. About EUT

Description	TA-1448
Model Name	TA-1448
FCC ID	2AJOTTA-1448
Antenna	Embedded
Output power	27.68dBm maximum EIRP measured for LTE Band CA 41C
Extreme vol. Limits	3.5VDC to 4.45VDC (nominal: 3.8VDC)
Extreme temp. Tolerance	-10°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
UT17a	357713910006474	v1.0	04US_1_150	2022-03-01
UT62a	357713910028908	v1.0	04US_1_150	2022-03-25
UT101a	357713910033809	v1.0	04US_1_150	2022-04-01
UT141a	357713910053245	v1.0	04US_1_150	2022-04-29

*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
AE2	Battery

AE1

Model	HQ610
Manufacturer	Ningde Amperex Technology Limited
Capacitance	4900mAh

AE2

Model	HQ610
Manufacturer	GUANGDONG FENGHUA NEW ENERGY CO., LTD
Capacitance	4900mAh

*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
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

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 M
Ground system resistance	< 4
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 M
Ground system resistance	< 4

6. Summary Of Test Result

First source:

LTE Band 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 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 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 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 (17)

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 25

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)

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 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 66

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

Second source:**LTE Band 7**

Items	Test Name	Clause in FCC rules	Verdict
2	Emission Limit	2.1051/27.53	P

LTE Band 41

Items	Test Name	Clause in FCC rules	Verdict
2	Emission Limit	2.1051/27.53	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.

LTE Band 12 and Band 41 overlaps the entire frequency range of LTE Band 17 and Band 38. Therefore, test data provided in this report covers Band 17, Band 38 as well as Band 12, 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 all the supported 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.

UT141a is 2nd source sample of this project, according to the declaration, spot check measurements were performed on this device. Please refer Annex A for detail spot check verification data and reference data. The spot check test results are consistent with basic model. For detail differences between two models please refer the Declaration of Changes document.

7. Test Equipments 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
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	N5183A	MY49060052	Agilent	2022-07-11	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
1.4MHz	1 RB high	1909.3	23.99	23.34	22.47
		1880.0	24.14	23.41	22.62
		1850.7	24.16	23.44	22.75
	1 RB low	1909.3	24.09	23.46	22.61
		1880.0	24.18	23.47	22.70
		1850.7	24.24	23.55	22.64
	50% RB mid	1909.3	24.19	23.24	22.70
		1880.0	24.24	23.42	22.69
		1850.7	24.36	23.35	22.76
	100% RB	1909.3	23.30	22.43	21.58
		1880.0	23.37	22.40	21.62
		1850.7	23.33	22.60	21.74
3MHz	1 RB high	1908.5	24.19	23.72	22.57
		1880.0	24.21	23.78	22.65
		1851.5	24.28	23.45	22.59
	1 RB low	1908.5	24.43	23.68	22.68
		1880.0	24.26	23.74	22.73
		1851.5	24.32	23.75	22.83
	50% RB mid	1908.5	23.43	22.58	21.65
		1880.0	23.43	22.55	21.80
		1851.5	23.50	22.57	21.77
	100% RB	1908.5	23.37	22.42	21.72
		1880.0	23.34	22.45	21.66

		1851.5	23.49	22.55	21.69
5MHz	1 RB high	1907.5	24.21	23.64	22.57
		1880.0	24.30	23.64	22.53
		1852.5	24.20	23.68	22.64
	1 RB low	1907.5	24.20	23.66	22.64
		1880.0	24.27	23.60	22.72
		1852.5	24.28	23.71	22.75
	50% RB mid	1907.5	23.43	22.58	21.80
		1880.0	23.42	22.50	21.72
		1852.5	23.50	22.52	21.84
	100% RB	1907.5	23.42	22.43	21.69
		1880.0	23.32	22.34	21.65
		1852.5	23.51	22.55	21.80
10MHz	1 RB high	1905.0	24.24	23.74	22.91
		1880.0	24.27	23.64	22.82
		1855.0	24.10	23.72	22.88
	1 RB low	1905.0	24.24	23.71	22.86
		1880.0	24.35	23.79	22.82
		1855.0	24.30	23.86	22.88
	50% RB mid	1905.0	23.36	22.47	21.62
		1880.0	23.42	22.50	21.75
		1855.0	23.45	22.56	21.81
	100% RB	1905.0	23.40	22.49	21.64
		1880.0	23.37	22.50	21.64
		1855.0	23.45	22.55	21.71
15MHz	1 RB high	1902.5	24.06	23.67	21.61
		1880.0	24.11	23.73	21.74
		1857.5	24.04	23.59	21.61
	1 RB low	1902.5	24.16	23.70	21.56
		1880.0	24.10	23.64	21.62
		1857.5	24.15	23.66	21.65
	50% RB mid	1902.5	23.23	22.21	20.62
		1880.0	23.24	22.25	20.61
		1857.5	23.32	22.45	20.71
	100% RB	1902.5	23.19	22.31	20.60
		1880.0	23.18	22.37	20.53
		1857.5	23.39	22.36	20.68
20MHz	1 RB high	1900.0	24.08	23.62	22.96
		1880.0	24.17	23.60	23.29
		1860.0	24.05	23.60	22.88
	1 RB low	1900.0	24.09	23.75	22.95
		1880.0	24.18	23.68	22.91
		1860.0	24.21	23.71	22.95

	50% RB mid	1900.0	23.22	22.31	21.49
		1880.0	23.27	22.30	21.61
		1860.0	23.38	22.44	21.62
	100% RB	1900.0	23.24	22.33	21.62
		1880.0	23.27	22.33	21.59
		1860.0	23.35	22.38	21.61

LTE band 4

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1754.3	23.63	22.88	21.89
		1732.5	23.74	22.87	21.75
		1710.7	23.70	22.82	22.21
	1 RB low	1754.3	23.63	22.89	21.95
		1732.5	23.69	22.85	21.76
		1710.7	23.66	22.79	22.19
	50% RB mid	1754.3	23.64	22.98	21.71
		1732.5	23.67	23.03	21.78
		1710.7	23.72	23.02	21.78
	100% RB	1754.3	22.77	21.92	20.88
		1732.5	22.74	21.96	20.86
		1710.7	22.76	21.97	20.87
3MHz	1 RB high	1753.5	23.73	22.81	21.76
		1732.5	23.82	22.88	21.83
		1711.5	23.77	22.87	21.78
	1 RB low	1753.5	23.76	22.82	21.82
		1732.5	23.82	22.85	21.76
		1711.5	23.81	22.90	21.89
	50% RB mid	1753.5	22.79	21.86	20.80
		1732.5	22.84	21.86	20.82
		1711.5	22.87	21.99	20.83
	100% RB	1753.5	22.80	21.78	20.87
		1732.5	22.77	21.75	20.85
		1711.5	22.86	21.83	20.93
5MHz	1 RB high	1752.5	23.71	22.76	21.76
		1732.5	23.82	22.90	22.00
		1712.5	23.81	22.97	22.00
	1 RB low	1752.5	23.79	22.78	21.81
		1732.5	23.77	22.95	21.95
		1712.5	23.86	22.97	22.05
	50% RB mid	1752.5	22.86	21.91	20.93
		1732.5	22.88	21.89	20.96
		1712.5	22.81	21.93	20.96
	100% RB	1752.5	22.82	21.81	20.85
		1732.5	22.80	21.75	20.85
		1712.5	22.86	21.89	20.87
10MHz	1 RB high	1750.0	23.76	22.75	21.76
		1732.5	23.77	22.94	21.71
		1715.0	23.72	22.74	21.78
	1 RB low	1750.0	23.79	22.76	21.74

		1732.5	23.77	22.80	21.77
		1715.0	23.79	22.91	21.76
		1750.0	22.87	21.94	20.95
	50% RB mid	1732.5	22.91	21.91	20.98
		1715.0	22.82	21.95	20.97
		1750.0	22.82	21.85	20.82
	100% RB	1732.5	22.83	21.87	20.89
		1715.0	22.88	21.88	20.90
		1750.0	22.82	21.85	20.82
15MHz	1 RB high	1747.5	23.63	23.09	22.15
		1732.5	23.64	23.09	22.15
		1717.5	23.60	23.05	22.13
	1 RB low	1747.5	23.68	23.11	22.11
		1732.5	23.68	23.12	22.13
		1717.5	23.69	23.12	22.10
	50% RB mid	1747.5	22.72	21.74	20.76
		1732.5	22.73	21.66	20.76
		1717.5	22.68	21.70	20.72
	100% RB	1747.5	22.65	21.69	20.74
		1732.5	22.59	21.64	20.76
		1717.5	22.69	21.68	20.76
20MHz	1 RB high	1745.0	23.65	23.33	21.62
		1732.5	23.65	23.31	21.68
		1720.0	23.60	23.29	21.61
	1 RB low	1745.0	23.66	23.31	21.63
		1732.5	23.65	23.30	21.62
		1720.0	23.64	23.31	21.61
	50% RB mid	1745.0	22.71	21.78	20.77
		1732.5	22.75	21.67	20.83
		1720.0	22.73	21.73	20.74
	100% RB	1745.0	22.76	21.78	20.81
		1732.5	22.70	21.69	20.68
		1720.0	22.72	21.75	20.76

LTE band 5

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	23.14	22.37	21.22
		836.5	23.10	22.35	21.27
		824.7	23.11	22.15	21.56
	1 RB low	848.3	23.12	22.35	21.11
		836.5	23.09	22.38	21.29
		824.7	23.09	22.17	21.57
	50% RB mid	848.3	23.12	22.45	21.22
		836.5	23.17	22.39	21.24
		824.7	23.17	22.45	21.35
	100% RB	848.3	22.20	21.31	20.24
		836.5	22.12	21.29	20.17
		824.7	22.22	21.11	20.49
3MHz	1 RB high	847.5	23.18	22.29	21.14
		836.5	23.21	22.35	21.11
		825.5	23.24	22.28	21.18
	1 RB low	847.5	23.24	22.33	21.22
		836.5	23.26	22.34	21.14
		825.5	23.27	22.38	21.33
	50% RB mid	847.5	22.18	21.28	20.15
		836.5	22.22	21.32	20.19
		825.5	22.23	21.25	20.15
	100% RB	847.5	22.19	21.19	20.27
		836.5	22.15	21.12	20.21
		825.5	22.24	21.19	20.26
5MHz	1 RB high	846.5	23.10	22.25	21.31
		836.5	23.19	22.27	21.42
		826.5	23.22	22.35	21.41
	1 RB low	846.5	23.17	22.27	21.27
		836.5	23.21	22.30	21.37
		826.5	23.24	22.28	21.44
	50% RB mid	846.5	22.26	21.23	20.34
		836.5	22.27	21.28	20.34
		826.5	22.18	21.30	20.26
	100% RB	846.5	22.18	21.16	20.21
		836.5	22.18	21.14	20.22
		826.5	22.24	21.22	20.25
10MHz	1 RB high	844.0	23.11	22.20	21.15
		836.5	23.19	22.41	21.45
		829.0	23.13	22.22	21.08
	1 RB low	844.0	23.17	22.37	21.09

		836.5	23.23	22.44	21.21
		829.0	23.18	22.25	21.09
	50% RB mid	844.0	22.29	21.38	20.33
		836.5	22.25	21.36	20.43
		829.0	22.24	21.40	20.31
	100% RB	844.0	22.22	21.28	20.28
		836.5	22.18	21.25	20.21
		829.0	22.25	21.30	20.30

LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2567.5	23.11	22.41	21.28
		2535.0	23.11	22.47	21.33
		2502.5	23.20	22.61	21.34
	1 RB low	2567.5	23.04	22.51	21.19
		2535.0	23.14	22.44	21.31
		2502.5	23.05	22.54	21.23
	50% RB mid	2567.5	22.26	21.34	20.34
		2535.0	22.27	21.28	20.27
		2502.5	22.35	21.41	20.38
	100% RB	2567.5	22.19	21.30	20.30
		2535.0	22.16	21.20	20.28
		2502.5	22.30	21.35	20.40
10MHz	1 RB high	2565.0	23.09	22.78	21.52
		2535.0	23.19	22.66	21.34
		2505.0	23.14	22.53	21.40
	1 RB low	2565.0	23.03	22.70	21.23
		2535.0	22.99	22.51	21.38
		2505.0	23.16	22.75	21.43
	50% RB mid	2565.0	22.23	21.26	20.24
		2535.0	22.25	21.30	20.31
		2505.0	22.35	21.41	20.42
	100% RB	2565.0	22.13	21.22	20.22
		2535.0	22.22	21.28	20.18
		2505.0	22.28	21.33	20.36
15MHz	1 RB high	2562.5	22.84	22.22	21.46
		2535.0	22.78	22.22	21.20
		2507.5	22.87	22.24	21.37
	1 RB low	2562.5	22.86	22.18	21.33
		2535.0	22.87	22.27	21.15
		2507.5	22.89	22.35	21.42
	50% RB mid	2562.5	22.06	21.11	20.09
		2535.0	22.04	21.14	20.20
		2507.5	22.19	21.28	20.21
	100% RB	2562.5	22.02	21.15	20.17
		2535.0	22.08	21.14	20.09
		2507.5	22.17	21.27	20.24
20MHz	1 RB high	2560.0	23.07	22.50	21.27
		2535.0	23.04	22.28	21.23
		2510.0	23.04	22.44	21.32
	1 RB low	2560.0	23.05	22.43	21.33

		2535.0	23.03	22.30	21.28
		2510.0	22.97	22.35	21.25
	50% RB mid	2560.0	22.20	21.18	20.26
		2535.0	22.18	21.22	20.19
		2510.0	22.19	21.25	20.23
	100% RB	2560.0	22.21	21.20	20.15
		2535.0	22.16	21.12	20.16
		2510.0	22.23	21.20	20.20

LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	715.3	23.93	22.91	22.04
		707.5	24.01	23.31	22.33
		699.7	23.99	23.23	22.48
	1 RB low	715.3	23.87	23.50	22.36
		707.5	24.10	23.26	22.29
		699.7	24.08	23.30	22.48
	50% RB mid	715.3	24.00	23.07	22.08
		707.5	24.17	23.30	22.27
		699.7	24.15	23.29	22.22
	100% RB	715.3	23.13	22.21	21.13
		707.5	23.19	22.28	21.13
		699.7	23.22	22.30	21.31
3MHz	1 RB high	714.5	23.77	22.96	22.03
		707.5	24.08	23.47	22.33
		700.5	24.06	23.33	22.32
	1 RB low	714.5	24.03	23.48	22.27
		707.5	24.13	23.54	22.42
		700.5	24.26	23.62	22.48
	50% RB mid	714.5	23.20	22.37	21.18
		707.5	23.24	22.32	21.22
		700.5	23.38	22.38	21.28
	100% RB	714.5	23.06	22.22	21.22
		707.5	23.18	22.39	21.22
		700.5	23.28	22.25	21.34
5MHz	1 RB high	713.5	23.65	22.99	22.09
		707.5	24.14	23.47	22.32
		701.5	24.12	23.54	22.24
	1 RB low	713.5	24.16	23.62	22.34
		707.5	24.23	23.66	22.26
		701.5	24.12	23.43	22.33
	50% RB mid	713.5	23.13	22.30	21.31
		707.5	23.30	22.33	21.29
		701.5	23.28	22.42	21.33
	100% RB	713.5	23.06	22.25	21.16
		707.5	23.22	22.22	21.26
		701.5	23.30	22.33	21.29
10MHz	1 RB high	711.0	23.97	23.56	22.11
		707.5	24.14	23.64	22.30
		704.0	24.26	23.57	22.44
	1 RB low	711.0	24.46	23.78	22.62

		707.5	24.24	23.73	22.56
		704.0	24.30	23.72	22.48
	50% RB mid	711.0	23.30	22.33	21.37
		707.5	23.35	22.35	21.25
		704.0	23.34	22.48	21.43
	100% RB	711.0	23.31	22.27	21.33
		707.5	23.32	22.29	21.30
		704.0	23.34	22.45	21.45

LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	784.5	24.13	23.37	22.74
		782.0	24.18	23.76	22.66
		779.5	24.17	23.67	22.61
	1 RB low	784.5	24.26	23.68	22.73
		782.0	24.14	23.79	22.86
		779.5	23.92	23.37	22.63
	50% RB mid	784.5	23.41	22.59	21.77
		782.0	23.44	22.54	21.83
		779.5	23.48	22.49	21.92
	100% RB	784.5	23.36	22.44	21.73
		782.0	23.37	22.51	21.74
		779.5	23.39	22.57	21.83
10MHz	1 RB high	782.0	24.27	23.57	22.52
	1 RB low	782.0	24.21	23.94	22.28
	50% RB mid	782.0	23.48	22.47	21.49
	100% RB	782.0	23.48	22.40	21.51

LTE band 25

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1914.3	24.12	23.48	22.57
		1882.5	24.24	23.58	22.76
		1850.7	23.58	23.04	22.31
	1 RB low	1914.3	23.95	23.46	22.58
		1882.5	24.27	23.50	22.75
		1850.7	23.54	22.96	22.19
	50% RB mid	1914.3	24.31	23.35	22.73
		1882.5	24.37	23.29	22.77
		1850.7	23.59	22.86	22.19
	100% RB	1914.3	23.28	22.42	21.54
		1882.5	23.45	22.52	21.64
		1850.7	22.78	22.05	21.32
3MHz	1 RB high	1913.5	24.30	23.71	22.57
		1882.5	24.38	23.76	22.81
		1851.5	23.82	23.30	22.50
	1 RB low	1913.5	24.14	23.68	22.71
		1882.5	24.39	23.90	22.82
		1851.5	23.69	23.11	22.34
	50% RB mid	1913.5	23.44	22.50	21.73
		1882.5	23.50	22.65	21.90
		1851.5	22.94	22.20	21.49
	100% RB	1913.5	23.41	22.50	21.78
		1882.5	23.49	22.56	21.86
		1851.5	22.94	22.14	21.44
5MHz	1 RB high	1912.5	24.28	23.52	22.62
		1882.5	24.41	23.66	22.86
		1852.5	23.96	23.45	22.54
	1 RB low	1912.5	24.23	23.57	22.65
		1882.5	24.30	23.85	22.79
		1852.5	23.73	23.22	22.43
	50% RB mid	1912.5	23.37	22.54	21.86
		1882.5	23.48	22.50	21.79
		1852.5	23.01	22.22	21.49
	100% RB	1912.5	23.37	22.49	21.81
		1882.5	23.45	22.52	21.77
		1852.5	23.03	22.22	21.54
10MHz	1 RB high	1910.0	24.23	23.85	22.76
		1882.5	24.37	24.01	22.98
		1855.0	24.32	23.86	22.99
	1 RB low	1910.0	24.30	23.83	22.89

		1882.5	24.35	23.93	22.82
		1855.0	23.86	23.32	22.52
	50% RB mid	1910.0	23.42	22.50	21.72
		1882.5	23.52	22.61	21.81
		1855.0	23.18	22.35	21.65
	100% RB	1910.0	23.41	22.47	21.77
		1882.5	23.45	22.62	21.76
		1855.0	23.26	22.45	21.74
15MHz	1 RB high	1907.5	24.11	23.37	22.41
		1882.5	24.19	23.64	22.46
		1857.5	24.09	23.59	22.44
	1 RB low	1907.5	24.09	23.80	22.42
		1882.5	24.18	23.70	22.39
		1857.5	23.80	23.17	21.42
	50% RB mid	1907.5	23.41	22.49	21.58
		1882.5	23.39	22.43	21.61
		1857.5	23.40	22.46	21.40
	100% RB	1907.5	23.39	22.40	21.51
		1882.5	23.41	22.46	21.52
		1857.5	23.37	22.44	21.44
20MHz	1 RB high	1905.0	24.17	23.70	22.24
		1882.5	24.27	23.65	22.67
		1860.0	24.25	23.91	22.42
	1 RB low	1905.0	24.27	23.78	22.48
		1882.5	24.24	23.76	22.46
		1860.0	24.30	23.91	22.28
	50% RB mid	1905.0	23.49	22.47	21.58
		1882.5	23.40	22.48	21.43
		1860.0	23.51	22.48	21.53
	100% RB	1905.0	23.36	22.47	21.51
		1882.5	23.37	22.41	21.43
		1860.0	23.51	22.50	21.50

LTE band 26(814MHz~824MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	823.3	23.81	22.98	21.72
		819.0	23.63	22.95	21.97
		814.7	23.64	22.76	21.14
	1 RB low	823.3	23.73	23.02	21.79
		819.0	23.64	22.96	21.76
		814.7	23.72	22.74	22.03
	50% RB mid	823.3	23.78	23.08	21.62
		819.0	23.77	23.10	21.67
		814.7	23.90	23.16	21.92
	100% RB	823.3	22.87	22.03	20.83
		819.0	22.83	21.97	21.47
		814.7	22.85	22.03	20.79
3MHz	1 RB high	822.5	23.84	22.98	21.91
		819.0	23.81	22.99	22.02
		815.5	23.90	23.10	22.31
	1 RB low	822.5	23.85	23.11	21.86
		819.0	23.85	23.10	21.91
		815.5	23.92	23.13	22.13
	50% RB mid	822.5	22.87	22.00	20.76
		819.0	22.82	22.00	20.83
		815.5	22.93	22.01	20.93
	100% RB	822.5	22.92	21.88	20.81
		819.0	22.86	21.88	20.87
		815.5	22.89	21.89	20.91
5MHz	1 RB high	821.5	23.80	22.93	21.77
		819.0	23.78	22.89	21.87
		816.5	23.82	22.89	22.01
	1 RB low	821.5	23.79	22.87	21.87
		819.0	23.78	22.86	21.91
		816.5	23.89	23.04	21.99
	50% RB mid	821.5	22.98	22.03	20.85
		819.0	22.95	22.00	20.96
		816.5	22.96	22.02	20.92
	100% RB	821.5	22.96	21.95	20.83
		819.0	22.94	21.96	20.88
		816.5	22.98	21.97	20.91
10MHz	1 RB high	819.0	23.82	23.04	21.94
	1 RB low	819.0	23.83	23.06	22.06
	50% RB mid	819.0	23.01	22.13	20.99
	100% RB	819.0	22.99	22.09	20.95

LTE band 26(824MHz~849MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	23.71	22.90	22.78
		836.5	23.80	23.02	22.83
		824.7	23.79	23.06	22.89
	1 RB low	848.3	23.70	22.91	22.82
		836.5	23.76	22.96	22.89
		824.7	23.76	23.00	22.97
	50% RB mid	848.3	23.74	23.03	22.77
		836.5	23.82	23.08	22.91
		824.7	23.79	23.12	22.94
	100% RB	848.3	22.81	21.95	21.72
		836.5	22.79	21.95	21.81
		824.7	22.84	22.07	21.88
3MHz	1 RB high	847.5	23.77	22.94	22.79
		836.5	23.87	23.04	22.87
		825.5	23.92	23.03	22.98
	1 RB low	847.5	23.85	23.05	22.91
		836.5	23.90	23.09	22.82
		825.5	23.92	23.05	22.87
	50% RB mid	847.5	22.82	21.95	21.87
		836.5	22.88	22.02	21.92
		825.5	22.93	22.02	21.98
	100% RB	847.5	22.85	21.86	21.79
		836.5	22.86	21.85	21.85
		825.5	22.91	21.91	21.86
5MHz	1 RB high	846.5	23.76	22.86	22.85
		836.5	23.83	22.92	22.92
		826.5	23.88	23.05	22.91
	1 RB low	846.5	23.86	22.96	22.74
		836.5	23.84	22.98	22.94
		826.5	23.87	22.97	22.92
	50% RB mid	846.5	22.94	22.00	21.79
		836.5	23.01	21.98	21.92
		826.5	22.96	22.06	21.93
	100% RB	846.5	22.92	21.91	21.67
		836.5	22.90	21.91	21.75
		826.5	22.92	21.92	21.84
10MHz	1 RB high	844.0	23.82	22.92	22.87
		836.5	23.88	22.97	22.94
		829.0	23.83	23.10	22.97
	1 RB low	844.0	23.88	23.04	22.79

		836.5	23.91	23.00	22.89
		829.0	23.85	23.13	22.94
		844.0	23.01	22.03	21.73
	50% RB mid	836.5	22.98	22.08	21.83
		829.0	23.04	22.13	21.92
		844.0	22.93	22.02	21.69
	100% RB	836.5	22.90	22.01	21.76
		829.0	23.02	22.07	21.79
		844.0	22.93	22.02	21.69
15MHz	1 RB high	841.5	23.66	23.12	22.76
		836.5	23.71	23.16	22.88
		831.5	23.67	23.32	22.96
	1 RB low	841.5	23.80	23.24	22.89
		836.5	23.78	23.21	22.94
		831.5	23.68	23.39	22.95
	50% RB mid	841.5	22.89	21.80	21.59
		836.5	22.89	21.82	21.65
		831.5	22.92	21.78	21.67
	100% RB	841.5	22.84	21.80	21.57
		836.5	22.86	21.80	21.62
		831.5	22.79	21.84	21.73

LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2687.5	26.28	25.30	24.64
		2593.0	26.44	25.58	24.86
		2498.5	26.34	25.54	24.91
	1 RB low	2687.5	26.59	25.58	24.90
		2593.0	26.36	25.53	24.75
		2498.5	26.29	25.44	24.88
	50% RB mid	2687.5	25.51	24.62	23.97
		2593.0	25.41	24.55	23.83
		2498.5	25.34	24.33	23.65
	100% RB	2687.5	25.48	24.64	23.92
		2593.0	25.40	24.49	23.75
		2498.5	25.33	24.39	23.62
10MHz	1 RB high	2685.0	26.39	25.44	24.70
		2593.0	26.27	25.60	24.83
		2501.0	26.31	25.57	24.84
	1 RB low	2685.0	26.69	26.00	24.95
		2593.0	26.42	25.67	24.96
		2501.0	26.18	25.58	24.78
	50% RB mid	2685.0	25.64	24.72	23.98
		2593.0	25.45	24.53	23.79
		2501.0	25.36	24.43	23.67
	100% RB	2685.0	25.64	24.71	23.95
		2593.0	25.46	24.55	23.78
		2501.0	25.35	24.47	23.65
15MHz	1 RB high	2682.5	25.89	25.02	23.24
		2593.0	26.41	24.78	24.00
		2503.5	26.10	25.49	24.78
	1 RB low	2682.5	26.46	25.45	24.69
		2593.0	26.20	24.99	24.21
		2503.5	25.96	25.38	24.67
	50% RB mid	2682.5	25.63	24.64	23.92
		2593.0	25.34	24.33	23.68
		2503.5	25.23	24.27	23.56
	100% RB	2682.5	25.50	24.55	23.87
		2593.0	25.32	24.38	23.70
		2503.5	25.25	24.30	23.58
20MHz	1 RB high	2680.0	26.32	25.75	24.48
		2593.0	26.40	25.80	24.61
		2506.0	26.34	25.73	24.47
	1 RB low	2680.0	26.52	25.89	24.60

		2593.0	26.47	25.84	24.59
		2506.0	26.14	25.53	24.27
	50% RB mid	2680.0	25.52	24.55	23.62
		2593.0	25.63	24.70	23.71
		2506.0	25.53	24.54	23.60
	100% RB	2680.0	25.54	24.63	23.57
		2593.0	25.63	24.71	23.71
		2506.0	25.55	24.54	23.58

LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1779.3	23.00	22.22	22.21
		1745.0	23.02	22.37	22.30
		1710.7	23.05	22.36	22.41
	1 RB low	1779.3	23.04	22.23	22.16
		1745.0	23.05	22.39	22.33
		1710.7	23.02	22.39	22.34
	50% RB mid	1779.3	23.04	22.19	22.19
		1745.0	23.33	22.01	22.18
		1710.7	23.19	22.07	22.10
	100% RB	1779.3	22.11	21.38	21.24
		1745.0	22.20	21.36	21.15
		1710.7	22.22	21.16	21.24
3MHz	1 RB high	1778.5	23.13	22.54	22.21
		1745.0	23.18	22.52	22.35
		1711.5	23.29	22.64	22.35
	1 RB low	1778.5	23.14	22.45	22.34
		1745.0	23.20	22.44	22.39
		1711.5	23.16	22.54	22.39
	50% RB mid	1778.5	22.31	21.33	21.23
		1745.0	22.31	21.41	21.36
		1711.5	22.39	21.43	21.37
	100% RB	1778.5	22.28	21.31	21.29
		1745.0	22.26	21.18	21.27
		1711.5	22.31	21.38	21.35
5MHz	1 RB high	1777.5	23.11	22.51	22.17
		1745.0	23.12	22.58	21.33
		1712.5	23.11	22.57	21.41
	1 RB low	1777.5	23.14	22.58	22.39
		1745.0	23.22	22.61	21.40
		1712.5	23.17	22.59	21.49
	50% RB mid	1777.5	22.29	21.39	21.36
		1745.0	22.31	21.32	20.29
		1712.5	22.38	21.44	20.47
	100% RB	1777.5	22.23	21.36	21.33
		1745.0	22.21	21.32	20.37
		1712.5	22.31	21.36	20.45
10MHz	1 RB high	1775.0	23.07	22.67	22.39
		1745.0	23.13	22.72	22.27
		1715.0	23.09	22.52	22.36
	1 RB low	1775.0	23.11	22.53	22.40

		1745.0	23.10	22.40	22.43
		1715.0	23.19	22.68	22.45
	50% RB mid	1775.0	22.23	21.38	21.39
		1745.0	22.24	21.32	21.40
		1715.0	22.33	21.47	21.34
	100% RB	1775.0	22.24	21.39	21.18
		1745.0	22.26	21.27	21.23
		1715.0	22.34	21.45	21.33
15MHz	1 RB high	1772.5	23.05	22.41	22.48
		1745.0	23.04	22.35	22.41
		1717.5	23.02	22.39	22.29
	1 RB low	1772.5	23.09	22.50	22.41
		1745.0	23.06	22.43	22.33
		1717.5	23.07	22.56	22.40
	50% RB mid	1772.5	22.09	21.09	21.16
		1745.0	22.11	21.23	21.20
		1717.5	22.21	21.30	21.27
	100% RB	1772.5	22.06	21.13	21.25
		1745.0	22.21	21.13	21.20
		1717.5	22.25	21.24	21.22
20MHz	1 RB high	1770.0	23.19	22.31	22.26
		1745.0	23.09	22.39	22.25
		1720.0	23.07	22.44	21.12
	1 RB low	1770.0	23.03	22.36	22.25
		1745.0	23.09	22.44	22.30
		1720.0	23.21	22.40	21.11
	50% RB mid	1770.0	22.04	21.12	21.04
		1745.0	22.24	21.26	21.17
		1720.0	22.15	21.19	20.21
	100% RB	1770.0	22.08	21.08	21.14
		1745.0	22.23	21.24	20.27
		1720.0	22.16	21.17	20.22

LTE band 71

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	695.5	23.62	22.23	22.17
		680.5	23.61	22.32	21.86
		665.5	23.91	22.20	22.04
	1 RB low	695.5	23.61	23.65	22.43
		680.5	23.55	23.91	24.17
		665.5	23.55	22.86	22.64
	50% RB mid	695.5	23.91	22.94	22.43
		680.5	23.91	21.67	22.65
		665.5	22.41	21.44	21.41
	100% RB	695.5	23.83	22.96	21.94
		680.5	23.99	22.94	21.94
		665.5	22.39	21.44	21.42
10MHz	1 RB high	693.0	23.04	22.36	22.19
		680.5	23.04	22.04	21.79
		668.0	23.54	22.54	23.85
	1 RB low	693.0	23.04	22.33	24.29
		680.5	23.04	22.43	24.31
		668.0	23.80	23.10	22.92
	50% RB mid	693.0	23.92	23.00	21.86
		680.5	23.43	22.94	21.91
		668.0	22.12	21.11	21.01
	100% RB	693.0	23.93	22.94	21.73
		680.5	23.11	22.90	21.80
		668.0	22.88	21.91	21.26
15MHz	1 RB high	690.5	23.51	24.56	22.29
		680.5	23.62	24.46	23.23
		670.5	23.51	24.36	22.25
	1 RB low	690.5	23.51	24.59	21.53
		680.5	23.55	24.52	21.55
		670.5	23.52	23.35	20.96
	50% RB mid	690.5	23.16	22.16	21.55
		680.5	23.14	22.16	21.51
		670.5	23.10	22.18	20.03
	100% RB	690.5	23.18	22.19	21.03
		680.5	23.10	22.16	21.94
		670.5	23.14	22.11	20.60
20MHz	1 RB high	688.0	24.02	23.44	22.14
		680.5	23.98	23.63	22.31
		673.0	24.08	23.59	22.36
	1 RB low	688.0	24.21	23.65	22.32

		680.5	24.13	23.63	22.01
		673.0	23.64	22.89	20.94
	50% RB mid	688.0	23.28	22.26	21.16
		680.5	23.25	22.28	21.37
		673.0	23.27	22.30	20.9
	100% RB	688.0	23.28	22.32	21.09
		680.5	23.20	22.27	21.22
		673.0	23.23	22.25	20.64

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	25	0	100	0	24.89
				1	24	1	0	26.69
			16QAM	25	0	100	0	23.81
				1	24	1	0	25.78
			64QAM	25	0	100	0	23.86
				1	24	1	0	25.06
			256QAM	25	0	100	0	21.98
				1	24	1	0	21.93
10MHz/ 15MHz	2585.9	2597.9	QPSK	50	0	75	0	24.88
				1	49	1	0	26.46
			16QAM	50	0	75	0	23.95
				1	49	1	0	25.72
			64QAM	50	0	75	0	23.94
				1	49	1	0	25.04
			256QAM	50	0	75	0	21.92
				1	49	1	0	21.93
10MHz/ 20MHz	2583.6	2598.0	QPSK	50	0	100	0	24.76
				1	49	1	0	26.46
			16QAM	50	0	100	0	23.94
				1	49	1	0	25.64
			64QAM	50	0	100	0	23.91
				1	49	1	0	25.04
			256QAM	50	0	100	0	21.96
				1	49	1	0	21.98
15MHz/ 10MHz	2588.1	2600.1	QPSK	75	0	50	0	24.86
				1	74	1	0	26.51
			16QAM	75	0	50	0	23.87
				1	74	1	0	25.58
			64QAM	75	0	50	0	23.92
				1	74	1	0	25.02
			256QAM	75	0	50	0	21.93
				1	74	1	0	21.98
15MHz/ 15MHz	2585.5	2600.5	QPSK	75	0	75	0	24.88
				1	74	1	0	26.59
			16QAM	75	0	75	0	23.82
				1	74	1	0	25.49
			64QAM	75	0	75	0	23.92
				1	74	1	0	24.76
			256QAM	75	0	75	0	21.88
				1	74	1	0	21.94

15MHz/ 20MHz	2583.3	2600.4	QPSK	75	0	100	0	24.75
				1	74	1	0	26.46
			16QAM	75	0	100	0	23.76
				1	74	1	0	25.56
			64QAM	75	0	100	0	23.94
				1	74	1	0	24.97
20MHz/ 5MHz	2590.5	2602.2	QPSK	75	0	100	0	21.94
				1	74	1	0	21.89
			16QAM	100	0	25	0	24.78
				1	99	1	0	26.69
			64QAM	100	0	25	0	23.94
				1	99	1	0	25.69
20MHz/ 10MHz	2588.1	2602.5	QPSK	100	0	25	0	23.91
				1	99	1	0	25.11
			256QAM	100	0	25	0	21.89
				1	99	1	0	22.09
			QPSK	100	0	50	0	24.86
				1	99	1	0	26.56
20MHz/ 15MHz	2585.6	2602.7	16QAM	100	0	50	0	23.92
				1	99	1	0	25.57
			64QAM	100	0	50	0	23.94
				1	99	1	0	25.15
			256QAM	100	0	50	0	21.95
				1	99	1	0	22.04
20MHz/ 20MHz	2583.1	2602.9	QPSK	100	0	75	0	24.86
				1	99	1	0	26.71
			16QAM	100	0	75	0	23.94
				1	99	1	0	25.75
			64QAM	100	0	75	0	23.89
				1	99	1	0	25.01
20MHz/ 20MHz	2583.1	2602.9	256QAM	100	0	75	0	21.97
				1	99	1	0	21.92
			QPSK	100	0	100	0	25.16
				1	99	1	0	26.72
			16QAM	100	0	100	0	24.19
				1	99	1	0	25.78
20MHz/ 20MHz	2583.1	2602.9	64QAM	100	0	100	0	24.22
				1	99	1	0	25.12
			256QAM	100	0	100	0	22.13
				1	99	1	0	22.09

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	24.77
				25	0	25	0	22.84
			16QAM	1	24	1	0	23.17
				25	0	25	0	21.88
			64QAM	1	24	1	0	23.18
				25	0	25	0	21.86
5MHz/ 10MHz	1750.3	1757.5	QPSK	1	24	1	0	24.66
				25	0	50	0	22.65
			16QAM	1	24	1	0	24.16
				25	0	50	0	21.69
			64QAM	1	24	1	0	22.85
				25	0	50	0	21.76
5MHz/ 15MHz	1748.1	1757.4	QPSK	1	24	1	0	24.77
				25	0	75	0	22.75
			16QAM	1	24	1	0	24.16
				25	0	75	0	21.78
			64QAM	1	24	1	0	22.93
				25	0	75	0	21.77
10MHz/ 5MHz	1752.5	1759.7	QPSK	1	49	1	0	24.65
				50	0	25	0	22.62
			16QAM	1	49	1	0	23.89
				50	0	25	0	21.63
			64QAM	1	49	1	0	23.05
				50	0	25	0	21.71
10MHz/ 10MHz	1750.1	1760	QPSK	1	49	1	0	24.51
				50	0	50	0	22.39
			16QAM	1	49	1	0	24.08
				50	0	50	0	21.44
			64QAM	1	49	1	0	22.86
				50	0	50	0	21.47
10MHz/ 10MHz	1750.1	1760	256QAM	1	49	1	0	19.88
				50	0	50	0	19.52

15MHz/ 5MHz	1752.6	1761.9	QPSK	1	74	1	0	24.67
				75	0	25	0	22.67
			16QAM	1	74	1	0	24.29
				75	0	25	0	21.72
			64QAM	1	74	1	0	22.91
				75	0	25	0	21.75
			256QAM	1	74	1	0	19.71
				75	0	25	0	19.82

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	24.59
				25	0	100	0	22.71
			16QAM	1	24	1	0	24.13
				25	0	100	0	21.72
			64QAM	1	24	1	0	22.97
				25	0	100	0	21.81
			256QAM	1	24	1	0	20.22
				25	0	100	0	19.77
10MHz/ 15MHz	1747.9	1757.9	QPSK	1	49	1	0	24.65
				50	0	75	0	22.68
			16QAM	1	49	1	0	24.32
				50	0	75	0	21.69
			64QAM	1	49	1	0	22.81
				50	0	75	0	21.72
			256QAM	1	49	1	0	19.87
				50	0	75	0	19.79
10MHz/ 20MHz	1745.6	1760.0	QPSK	1	49	1	0	24.69
				50	0	100	0	22.83
			16QAM	1	49	1	0	23.95
				50	0	100	0	21.98
			64QAM	1	49	1	0	23.02
				50	0	100	0	21.79
			256QAM	1	49	1	0	20.24
				50	0	100	0	19.86
15MHz/ 10MHz	1750.1	1762.1	QPSK	1	74	1	0	24.55
				75	0	50	0	22.71
			16QAM	1	74	1	0	23.77
				75	0	50	0	21.66
			64QAM	1	74	1	0	22.48
				75	0	50	0	21.63
			256QAM	1	74	1	0	19.44
				75	0	50	0	19.67
15MHz/ 15MHz	1747.5	1762.5	QPSK	1	74	1	0	24.39
				75	0	75	0	22.65
			16QAM	1	74	1	0	23.53
				75	0	75	0	21.73
			64QAM	1	74	1	0	22.85
				75	0	75	0	21.68
			256QAM	1	74	1	0	20.03
				75	0	75	0	19.69

15MHz/ 20MHz	1745.3	1762.4	QPSK	1	74	1	0	24.57
				75	0	100	0	22.61
			16QAM	1	74	1	0	23.81
				75	0	100	0	21.66
			64QAM	1	74	1	0	22.89
				75	0	100	0	21.68
20MHz/ 5MHz	1752.5	1764.2	QPSK	1	74	1	0	19.45
				75	0	100	0	19.65
			16QAM	1	99	1	0	24.34
				100	0	25	0	22.61
			64QAM	1	99	1	0	23.66
				100	0	25	0	21.59
20MHz/ 10MHz	1750.1	1764.5	QPSK	1	99	1	0	22.89
				100	0	25	0	21.67
			256QAM	1	99	1	0	20.12
				100	0	25	0	19.65
			QPSK	1	99	1	0	24.46
				100	0	50	0	22.59
20MHz/ 15MHz	1747.6	1764.7	16QAM	1	99	1	0	23.79
				100	0	50	0	21.57
			64QAM	1	99	1	0	22.66
				100	0	50	0	21.59
			256QAM	1	99	1	0	19.41
				100	0	50	0	19.67
20MHz/ 20MHz	1745.1	1764.9	QPSK	1	99	1	0	24.39
				100	0	75	0	22.57
			16QAM	1	99	1	0	24.04
				100	0	75	0	21.59
			64QAM	1	99	1	0	22.91
				100	0	75	0	21.53
20MHz/ 20MHz	1745.1	1764.9	256QAM	1	99	1	0	19.63
				100	0	75	0	19.62
			QPSK	1	99	1	0	24.41
				100	0	100	0	22.43
			16QAM	1	99	1	0	23.92
				100	0	100	0	21.52
20MHz/ 20MHz	1745.1	1764.9	64QAM	1	99	1	0	22.74
				100	0	100	0	21.56
			256QAM	1	99	1	0	19.66
				100	0	100	0	19.47

A.1.3 Radiated

A.1.3.1 Description

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

LTE Band 2: Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power". and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

LTE Band 5: Rule Part 22.913(a) specifies "Mobile stations are limited to 2.0 watts EIRP."

LTE Band 4/66: 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."

FDD Band 7/41: 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".

FDD 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 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): 22.913(a) specifies " The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts"

A.1.3.2 Method of Measurement

NASI C63.26 chapter 5.2.5.5: when working in decibels (i.e., logarithmic scale), the ERP and EIRP represent the sum of the transmit antenna gain (in dBd or dBi, respectively) and the conducted RF output power (expressed in dB relative to watts or milliwatts).

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

$$\text{ERP or EIRP} = P_{\text{Mea}} + G_T$$

Where

ERP or EIRP effective radiated power or equivalent isotropically radiated power,
respectively

(expressed in the same units as P_{Mea} , e.g., dBm or dBW)

P_{Mea} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

A.1.3.3 Measurement result

LTE band 2- EIRP
Limits: ≤33dBm (2W)

Max EIRP: 22.62dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power (dBm)			Radiated Power (dBm) 1710MHz-1880 MHz GT = -1.74dBi 1880 MHz -2200 MHz GT = -2.07 dBi		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	1909.3	23.99	23.34	22.47	21.92	21.27	20.40
		1880	24.14	23.41	22.62	22.07	21.34	20.55
		1850.7	24.16	23.44	22.75	22.42	21.70	21.01
	1 RB low	1909.3	24.09	23.46	22.61	22.02	21.39	20.54
		1880	24.18	23.47	22.7	22.11	21.40	20.63
		1850.7	24.24	23.55	22.64	22.50	21.81	20.90
	50% RB mid	1909.3	24.19	23.24	22.7	22.12	21.17	20.63
		1880	24.24	23.42	22.69	22.17	21.35	20.62
		1850.7	24.36	23.35	22.76	22.62	21.61	21.02
	100% RB	1909.3	23.3	22.43	21.58	21.23	20.36	19.51
		1880	23.37	22.4	21.62	21.30	20.33	19.55
		1850.7	23.33	22.6	21.74	21.59	20.86	20.00
3MHz	1 RB high	1908.5	24.19	23.72	22.57	22.12	21.65	20.50
		1880	24.21	23.78	22.65	22.14	21.71	20.58
		1851.5	24.28	23.45	22.59	22.54	21.71	20.85
	1 RB low	1908.5	24.43	23.68	22.68	22.36	21.61	20.61
		1880	24.26	23.74	22.73	22.19	21.67	20.66
		1851.5	24.32	23.75	22.83	22.58	22.01	21.09
	50% RB mid	1908.5	23.43	22.58	21.65	21.36	20.51	19.58
		1880	23.43	22.55	21.8	21.36	20.48	19.73
		1851.5	23.5	22.57	21.77	21.76	20.83	20.03
	100% RB	1908.5	23.37	22.42	21.72	21.30	20.35	19.65
		1880	23.34	22.45	21.66	21.27	20.38	19.59
		1851.5	23.49	22.55	21.69	21.75	20.81	19.95
5MHz	1 RB high	1907.5	24.21	23.64	22.57	22.14	21.57	20.50
		1880	24.3	23.64	22.53	22.23	21.57	20.46
		1852.5	24.2	23.68	22.64	22.46	21.94	20.90
	1 RB low	1907.5	24.2	23.66	22.64	22.13	21.59	20.57
		1880	24.27	23.6	22.72	22.20	21.53	20.65
		1852.5	24.28	23.71	22.75	22.54	21.97	21.01
	50% RB mid	1907.5	23.43	22.58	21.8	21.36	20.51	19.73
		1880	23.42	22.5	21.72	21.35	20.43	19.65
		1852.5	23.5	22.52	21.84	21.76	20.78	20.10

	100% RB	1907.5	23.42	22.43	21.69	21.35	20.36	19.62
		1880	23.32	22.34	21.65	21.25	20.27	19.58
		1852.5	23.51	22.55	21.8	21.77	20.81	20.06
10MHz	1 RB high	1905	24.24	23.74	22.91	22.17	21.67	20.84
		1880	24.27	23.64	22.82	22.20	21.57	20.75
		1855	24.1	23.72	22.88	22.36	21.98	21.14
	1 RB low	1905	24.24	23.71	22.86	22.17	21.64	20.79
		1880	24.35	23.79	22.82	22.28	21.72	20.75
		1855	24.3	23.86	22.88	22.56	22.12	21.14
	50% RB mid	1905	23.36	22.47	21.62	21.29	20.40	19.55
		1880	23.42	22.5	21.75	21.35	20.43	19.68
		1855	23.45	22.56	21.81	21.71	20.82	20.07
	100% RB	1905	23.4	22.49	21.64	21.33	20.42	19.57
		1880	23.37	22.5	21.64	21.30	20.43	19.57
		1855	23.45	22.55	21.71	21.71	20.81	19.97
15MHz	1 RB high	1902.5	24.06	23.67	21.61	21.99	21.60	19.54
		1880	24.11	23.73	21.74	22.04	21.66	19.67
		1857.5	24.04	23.59	21.61	22.30	21.85	19.87
	1 RB low	1902.5	24.16	23.7	21.56	22.09	21.63	19.49
		1880	24.1	23.64	21.62	22.03	21.57	19.55
		1857.5	24.15	23.66	21.65	22.41	21.92	19.91
	50% RB mid	1902.5	23.23	22.21	20.62	21.16	20.14	18.55
		1880	23.24	22.25	20.61	21.17	20.18	18.54
		1857.5	23.32	22.45	20.71	21.58	20.71	18.97
	100% RB	1902.5	23.19	22.31	20.6	21.12	20.24	18.53
		1880	23.18	22.37	20.53	21.11	20.30	18.46
		1857.5	23.39	22.36	20.68	21.65	20.62	18.94
20MHz	1 RB high	1900	24.08	23.62	22.96	22.01	21.55	20.89
		1880	24.17	23.6	23.29	22.10	21.53	21.22
		1860	24.05	23.6	22.88	22.31	21.86	21.14
	1 RB low	1900	24.09	23.75	22.95	22.02	21.68	20.88
		1880	24.18	23.68	22.91	22.11	21.61	20.84
		1860	24.21	23.71	22.95	22.47	21.97	21.21
	50% RB mid	1900	23.22	22.31	21.49	21.15	20.24	19.42
		1880	23.27	22.3	21.61	21.20	20.23	19.54
		1860	23.38	22.44	21.62	21.64	20.70	19.88
	100% RB	1900	23.24	22.33	21.62	21.17	20.26	19.55
		1880	23.27	22.33	21.59	21.20	20.26	19.52
		1860	23.35	22.38	21.61	21.61	20.64	19.87

LTE band 4- EIRP
Limits: ≤33.00dBm (1W)

Max ERP: 22.12dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power (dBm)			Radiated Power (dBm) G _T = -1.74dBi		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	1754.3	23.63	22.88	21.89	21.89	21.14	20.15
		1732.5	23.74	22.87	21.75	22.00	21.13	20.01
		1710.7	23.7	22.82	22.21	21.96	21.08	20.47
	1 RB low	1754.3	23.63	22.89	21.95	21.89	21.15	20.21
		1732.5	23.69	22.85	21.76	21.95	21.11	20.02
		1710.7	23.66	22.79	22.19	21.92	21.05	20.45
	50% RB mid	1754.3	23.64	22.98	21.71	21.90	21.24	19.97
		1732.5	23.67	23.03	21.78	21.93	21.29	20.04
		1710.7	23.72	23.02	21.78	21.98	21.28	20.04
	100% RB	1754.3	22.77	21.92	20.88	21.03	20.18	19.14
		1732.5	22.74	21.96	20.86	21.00	20.22	19.12
		1710.7	22.76	21.97	20.87	21.02	20.23	19.13
3MHz	1 RB high	1753.5	23.73	22.81	21.76	21.99	21.07	20.02
		1732.5	23.82	22.88	21.83	22.08	21.14	20.09
		1711.5	23.77	22.87	21.78	22.03	21.13	20.04
	1 RB low	1753.5	23.76	22.82	21.82	22.02	21.08	20.08
		1732.5	23.82	22.85	21.76	22.08	21.11	20.02
		1711.5	23.81	22.9	21.89	22.07	21.16	20.15
	50% RB mid	1753.5	22.79	21.86	20.8	21.05	20.12	19.06
		1732.5	22.84	21.86	20.82	21.10	20.12	19.08
		1711.5	22.87	21.99	20.83	21.13	20.25	19.09
	100% RB	1753.5	22.8	21.78	20.87	21.06	20.04	19.13
		1732.5	22.77	21.75	20.85	21.03	20.01	19.11
		1711.5	22.86	21.83	20.93	21.12	20.09	19.19
5MHz	1 RB high	1752.5	23.71	22.76	21.76	21.97	21.02	20.02
		1732.5	23.82	22.9	22	22.08	21.16	20.26
		1712.5	23.81	22.97	22	22.07	21.23	20.26
	1 RB low	1752.5	23.79	22.78	21.81	22.05	21.04	20.07
		1732.5	23.77	22.95	21.95	22.03	21.21	20.21
		1712.5	23.86	22.97	22.05	22.12	21.23	20.31
	50% RB mid	1752.5	22.86	21.91	20.93	21.12	20.17	19.19
		1732.5	22.88	21.89	20.96	21.14	20.15	19.22
		1712.5	22.81	21.93	20.96	21.07	20.19	19.22
	100% RB	1752.5	22.82	21.81	20.85	21.08	20.07	19.11
		1732.5	22.8	21.75	20.85	21.06	20.01	19.11
		1712.5	22.86	21.89	20.87	21.12	20.15	19.13

10MHz	1 RB high	1750	23.76	22.75	21.76	22.02	21.01	20.02
		1732.5	23.77	22.94	21.71	22.03	21.20	19.97
		1715	23.72	22.74	21.78	21.98	21.00	20.04
	1 RB low	1750	23.79	22.76	21.74	22.05	21.02	20.00
		1732.5	23.77	22.8	21.77	22.03	21.06	20.03
		1715	23.79	22.91	21.76	22.05	21.17	20.02
	50% RB mid	1750	22.87	21.94	20.95	21.13	20.20	19.21
		1732.5	22.91	21.91	20.98	21.17	20.17	19.24
		1715	22.82	21.95	20.97	21.08	20.21	19.23
	100% RB	1750	22.82	21.85	20.82	21.08	20.11	19.08
		1732.5	22.83	21.87	20.89	21.09	20.13	19.15
		1715	22.88	21.88	20.9	21.14	20.14	19.16
15MHz	1 RB high	1747.5	23.63	23.09	22.15	21.89	21.35	20.41
		1732.5	23.64	23.09	22.15	21.90	21.35	20.41
		1717.5	23.6	23.05	22.13	21.86	21.31	20.39
	1 RB low	1747.5	23.68	23.11	22.11	21.94	21.37	20.37
		1732.5	23.68	23.12	22.13	21.94	21.38	20.39
		1717.5	23.69	23.12	22.1	21.95	21.38	20.36
	50% RB mid	1747.5	22.72	21.74	20.76	20.98	20.00	19.02
		1732.5	22.73	21.66	20.76	20.99	19.92	19.02
		1717.5	22.68	21.7	20.72	20.94	19.96	18.98
	100% RB	1747.5	22.65	21.69	20.74	20.91	19.95	19.00
		1732.5	22.59	21.64	20.76	20.85	19.90	19.02
		1717.5	22.69	21.68	20.76	20.95	19.94	19.02
20MHz	1 RB high	1745	23.65	23.33	21.62	21.91	21.59	19.88
		1732.5	23.65	23.31	21.68	21.91	21.57	19.94
		1720	23.6	23.29	21.61	21.86	21.55	19.87
	1 RB low	1745	23.66	23.31	21.63	21.92	21.57	19.89
		1732.5	23.65	23.3	21.62	21.91	21.56	19.88
		1720	23.64	23.31	21.61	21.90	21.57	19.87
	50% RB mid	1745	22.71	21.78	20.77	20.97	20.04	19.03
		1732.5	22.75	21.67	20.83	21.01	19.93	19.09
		1720	22.73	21.73	20.74	20.99	19.99	19.00
	100% RB	1745	22.76	21.78	20.81	21.02	20.04	19.07
		1732.5	22.7	21.69	20.68	20.96	19.95	18.94
		1720	22.72	21.75	20.76	20.98	20.01	19.02

LTE band 5- ERP
Limits: ≤38.45dBm (7W)

Max ERP: 17.30dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power (dBm)			Radiated Power (dBm) GT =-3.82dBi		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	23.14	22.37	21.22	17.17	16.40	15.25
		836.5	23.1	22.35	21.27	17.13	16.38	15.30
		824.7	23.11	22.15	21.56	17.14	16.18	15.59
	1 RB low	848.3	23.12	22.35	21.11	17.15	16.38	15.14
		836.5	23.09	22.38	21.29	17.12	16.41	15.32
		824.7	23.09	22.17	21.57	17.12	16.20	15.60
	50% RB mid	848.3	23.12	22.45	21.22	17.15	16.48	15.25
		836.5	23.17	22.39	21.24	17.20	16.42	15.27
		824.7	23.17	22.45	21.35	17.20	16.48	15.38
	100% RB	848.3	22.2	21.31	20.24	16.23	15.34	14.27
		836.5	22.12	21.29	20.17	16.15	15.32	14.20
		824.7	22.22	21.11	20.49	16.25	15.14	14.52
3MHz	1 RB high	847.5	23.18	22.29	21.14	17.21	16.32	15.17
		836.5	23.21	22.35	21.11	17.24	16.38	15.14
		825.5	23.24	22.28	21.18	17.27	16.31	15.21
	1 RB low	847.5	23.24	22.33	21.22	17.27	16.36	15.25
		836.5	23.26	22.34	21.14	17.29	16.37	15.17
		825.5	23.27	22.38	21.33	17.30	16.41	15.36
	50% RB mid	847.5	22.18	21.28	20.15	16.21	15.31	14.18
		836.5	22.22	21.32	20.19	16.25	15.35	14.22
		825.5	22.23	21.25	20.15	16.26	15.28	14.18
	100% RB	847.5	22.19	21.19	20.27	16.22	15.22	14.30
		836.5	22.15	21.12	20.21	16.18	15.15	14.24
		825.5	22.24	21.19	20.26	16.27	15.22	14.29
5MHz	1 RB high	846.5	23.1	22.25	21.31	17.13	16.28	15.34
		836.5	23.19	22.27	21.42	17.22	16.30	15.45
		826.5	23.22	22.35	21.41	17.25	16.38	15.44
	1 RB low	846.5	23.17	22.27	21.27	17.20	16.30	15.30
		836.5	23.21	22.3	21.37	17.24	16.33	15.40
		826.5	23.24	22.28	21.44	17.27	16.31	15.47
	50% RB mid	846.5	22.26	21.23	20.34	16.29	15.26	14.37
		836.5	22.27	21.28	20.34	16.30	15.31	14.37
		826.5	22.18	21.3	20.26	16.21	15.33	14.29
	100% RB	846.5	22.18	21.16	20.21	16.21	15.19	14.24
		836.5	22.18	21.14	20.22	16.21	15.17	14.25
		826.5	22.24	21.22	20.25	16.27	15.25	14.28

10MHz	1 RB high	844	23.11	22.2	21.15	17.14	16.23	15.18
		836.5	23.19	22.41	21.45	17.22	16.44	15.48
		829	23.13	22.22	21.08	17.16	16.25	15.11
	1 RB low	844	23.17	22.37	21.09	17.20	16.40	15.12
		836.5	23.23	22.44	21.21	17.26	16.47	15.24
		829	23.18	22.25	21.09	17.21	16.28	15.12
	50% RB mid	844	22.29	21.38	20.33	16.32	15.41	14.36
		836.5	22.25	21.36	20.43	16.28	15.39	14.46
		829	22.24	21.4	20.31	16.27	15.43	14.34
	100% RB	844	22.22	21.28	20.28	16.25	15.31	14.31
		836.5	22.18	21.25	20.21	16.21	15.28	14.24
		829	22.25	21.3	20.3	16.28	15.33	14.33

LTE band 7- EIRP
Limits: ≤33 dBm (2W)

Max EIRP: 24.13dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power (dBm)			Radiated Power (dBm) GT=0.96 (dBi)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	2567.5	23.11	22.41	21.28	24.07	23.37	22.24
		2535	23.11	22.47	21.33	24.07	23.43	22.29
		2502.5	23.2	22.61	21.34	24.16	23.57	22.30
	1 RB low	2567.5	23.04	22.51	21.19	24.00	23.47	22.15
		2535	23.14	22.44	21.31	24.10	23.40	22.27
		2502.5	23.05	22.54	21.23	24.01	23.50	22.19
	50% RB mid	2567.5	22.26	21.34	20.34	23.22	22.30	21.30
		2535	22.27	21.28	20.27	23.23	22.24	21.23
		2502.5	22.35	21.41	20.38	23.31	22.37	21.34
	100% RB	2567.5	22.19	21.3	20.3	23.15	22.26	21.26
		2535	22.16	21.2	20.28	23.12	22.16	21.24
		2502.5	22.3	21.35	20.4	23.26	22.31	21.36
3MHz	1 RB high	2565	23.09	22.78	21.52	24.05	23.74	22.48
		2535	23.19	22.66	21.34	24.15	23.62	22.30
		2505	23.14	22.53	21.4	24.10	23.49	22.36
	1 RB low	2565	23.03	22.7	21.23	23.99	23.66	22.19
		2535	22.99	22.51	21.38	23.95	23.47	22.34
		2505	23.16	22.75	21.43	24.12	23.71	22.39
	50% RB mid	2565	22.23	21.26	20.24	23.19	22.22	21.20
		2535	22.25	21.3	20.31	23.21	22.26	21.27
		2505	22.35	21.41	20.42	23.31	22.37	21.38
	100% RB	2565	22.13	21.22	20.22	23.09	22.18	21.18
		2535	22.22	21.28	20.18	23.18	22.24	21.14
		2505	22.28	21.33	20.36	23.24	22.29	21.32
5MHz	1 RB high	2562.5	22.84	22.22	21.46	23.80	23.18	22.42
		2535	22.78	22.22	21.2	23.74	23.18	22.16
		2507.5	22.87	22.24	21.37	23.83	23.20	22.33
	1 RB low	2562.5	22.86	22.18	21.33	23.82	23.14	22.29
		2535	22.87	22.27	21.15	23.83	23.23	22.11
		2507.5	22.89	22.35	21.42	23.85	23.31	22.38
	50% RB mid	2562.5	22.06	21.11	20.09	23.02	22.07	21.05
		2535	22.04	21.14	20.2	23.00	22.10	21.16
		2507.5	22.19	21.28	20.21	23.15	22.24	21.17
	100% RB	2562.5	22.02	21.15	20.17	22.98	22.11	21.13
		2535	22.08	21.14	20.09	23.04	22.10	21.05
		2507.5	22.17	21.27	20.24	23.13	22.23	21.20

10MHz	1 RB high	2560	23.07	22.5	21.27	24.03	23.46	22.23
		2535	23.04	22.28	21.23	24.00	23.24	22.19
		2510	23.04	22.44	21.32	24.00	23.40	22.28
	1 RB low	2560	23.05	22.43	21.33	24.01	23.39	22.29
		2535	23.03	22.3	21.28	23.99	23.26	22.24
		2510	22.97	22.35	21.25	23.93	23.31	22.21
	50% RB mid	2560	22.2	21.18	20.26	23.16	22.14	21.22
		2535	22.18	21.22	20.19	23.14	22.18	21.15
		2510	22.19	21.25	20.23	23.15	22.21	21.19
	100% RB	2560	22.21	21.2	20.15	23.17	22.16	21.11
		2535	22.16	21.12	20.16	23.12	22.08	21.12
		2510	22.23	21.2	20.2	23.19	22.16	21.16

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

Max ERP: 18.14dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power (dBm)			Radiated Power (dBm)		
			QPSK	16QAM	64QAM	600-700MHz GT = -4.04dB	700-800MHz GT = -4.17dB	
1.4MHz	1 RB high	715.3	23.93	22.91	22.04	17.61	16.59	15.72
		707.5	24.01	23.31	22.33	17.69	16.99	16.01
		699.7	23.99	23.23	22.48	17.80	17.04	16.29
	1 RB low	715.3	23.87	23.5	22.36	17.55	17.18	16.04
		707.5	24.1	23.26	22.29	17.78	16.94	15.97
		699.7	24.08	23.3	22.48	17.89	17.11	16.29
	50% RB mid	715.3	24	23.07	22.08	17.68	16.75	15.76
		707.5	24.17	23.3	22.27	17.85	16.98	15.95
		699.7	24.15	23.29	22.22	17.96	17.10	16.03
	100% RB	715.3	23.13	22.21	21.13	16.81	15.89	14.81
		707.5	23.19	22.28	21.13	16.87	15.96	14.81
		699.7	23.22	22.3	21.31	17.03	16.11	15.12
3MHz	1 RB high	714.5	23.77	22.96	22.03	17.45	16.64	15.71
		707.5	24.08	23.47	22.33	17.76	17.15	16.01
		700.5	24.06	23.33	22.32	17.74	17.01	16.00
	1 RB low	714.5	24.03	23.48	22.27	17.71	17.16	15.95
		707.5	24.13	23.54	22.42	17.81	17.22	16.10
		700.5	24.26	23.62	22.48	17.94	17.30	16.16
	50% RB mid	714.5	23.2	22.37	21.18	16.88	16.05	14.86
		707.5	23.24	22.32	21.22	16.92	16.00	14.90
		700.5	23.38	22.38	21.28	17.06	16.06	14.96
	100% RB	714.5	23.06	22.22	21.22	16.74	15.90	14.90
		707.5	23.18	22.39	21.22	16.86	16.07	14.90
		700.5	23.28	22.25	21.34	16.96	15.93	15.02
5MHz	1 RB high	713.5	23.65	22.99	22.09	17.33	16.67	15.77
		707.5	24.14	23.47	22.32	17.82	17.15	16.00
		701.5	24.12	23.54	22.24	17.80	17.22	15.92
	1 RB low	713.5	24.16	23.62	22.34	17.84	17.30	16.02
		707.5	24.23	23.66	22.26	17.91	17.34	15.94
		701.5	24.12	23.43	22.33	17.80	17.11	16.01
	50% RB mid	713.5	23.13	22.3	21.31	16.81	15.98	14.99
		707.5	23.3	22.33	21.29	16.98	16.01	14.97
		701.5	23.28	22.42	21.33	16.96	16.10	15.01

		713.5	23.06	22.25	21.16	16.74	15.93	14.84
	100% RB	707.5	23.22	22.22	21.26	16.90	15.90	14.94
		701.5	23.3	22.33	21.29	16.98	16.01	14.97
10MHz	1 RB high	711	23.97	23.56	22.11	17.65	17.24	15.79
		707.5	24.14	23.64	22.3	17.82	17.32	15.98
		704	24.26	23.57	22.44	17.94	17.25	16.12
	1 RB low	711	24.46	23.78	22.62	18.14	17.46	16.30
		707.5	24.24	23.73	22.56	17.92	17.41	16.24
		704	24.3	23.72	22.48	17.98	17.40	16.16
	50% RB mid	711	23.3	22.33	21.37	16.98	16.01	15.05
		707.5	23.35	22.35	21.25	17.03	16.03	14.93
		704	23.34	22.48	21.43	17.02	16.16	15.11
	100% RB	711	23.31	22.27	21.33	16.99	15.95	15.01
		707.5	23.32	22.29	21.3	17.00	15.97	14.98
		704	23.34	22.45	21.45	17.02	16.13	15.13

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

Max ERP: 17.95dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power (dBm)			Radiated Power (dBm) GT= -4.17 (dBi)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5MHz	1 RB high	784.5	24.13	23.37	22.74	17.81	17.05	16.42
		782	24.18	23.76	22.66	17.86	17.44	16.34
		779.5	24.17	23.67	22.61	17.85	17.35	16.29
	1 RB low	784.5	24.26	23.68	22.73	17.94	17.36	16.41
		782	24.14	23.79	22.86	17.82	17.47	16.54
		779.5	23.92	23.37	22.63	17.60	17.05	16.31
	50% RB mid	784.5	23.41	22.59	21.77	17.09	16.27	15.45
		782	23.44	22.54	21.83	17.12	16.22	15.51
		779.5	23.48	22.49	21.92	17.16	16.17	15.60
	100% RB	784.5	23.36	22.44	21.73	17.04	16.12	15.41
		782	23.37	22.51	21.74	17.05	16.19	15.42
		779.5	23.39	22.57	21.83	17.07	16.25	15.51
10MHz	1 RB high	782	24.27	23.57	22.52	17.95	17.25	16.20
	1 RB low	782	24.21	23.94	22.28	17.89	17.62	15.96
	50% RB mid	782	23.48	22.47	21.49	17.16	16.15	15.17
	100% RB	782	23.48	22.4	21.51	17.16	16.08	15.19

LTE band 25- EIRP
Limits: ≤33dBm (2W)

Max ERP: 22.58dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power (dBm)			Radiated Power (dBm) 1710-1880 GT = -1.74dB 1880-2200 GT = -2.07 dB		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	1914.3	24.12	23.48	22.57	22.05	21.41	20.50
		1882.5	24.24	23.58	22.76	22.17	21.51	20.69
		1850.7	23.58	23.04	22.31	21.84	21.30	20.57
	1 RB low	1914.3	23.95	23.46	22.58	21.88	21.39	20.51
		1882.5	24.27	23.5	22.75	22.20	21.43	20.68
		1850.7	23.54	22.96	22.19	21.80	21.22	20.45
	50% RB mid	1914.3	24.31	23.35	22.73	22.24	21.28	20.66
		1882.5	24.37	23.29	22.77	22.30	21.22	20.70
		1850.7	23.59	22.86	22.19	21.85	21.12	20.45
	100% RB	1914.3	23.28	22.42	21.54	21.21	20.35	19.47
		1882.5	23.45	22.52	21.64	21.38	20.45	19.57
		1850.7	22.78	22.05	21.32	21.04	20.31	19.58
3MHz	1 RB high	1913.5	24.3	23.71	22.57	22.23	21.64	20.50
		1882.5	24.38	23.76	22.81	22.31	21.69	20.74
		1851.5	23.82	23.3	22.5	22.08	21.56	20.76
	1 RB low	1913.5	24.14	23.68	22.71	22.07	21.61	20.64
		1882.5	24.39	23.9	22.82	22.32	21.83	20.75
		1851.5	23.69	23.11	22.34	21.95	21.37	20.60
	50% RB mid	1913.5	23.44	22.5	21.73	21.37	20.43	19.66
		1882.5	23.5	22.65	21.9	21.43	20.58	19.83
		1851.5	22.94	22.2	21.49	21.20	20.46	19.75
	100% RB	1913.5	23.41	22.5	21.78	21.34	20.43	19.71
		1882.5	23.49	22.56	21.86	21.42	20.49	19.79
		1851.5	22.94	22.14	21.44	21.20	20.40	19.70
5MHz	1 RB high	1912.5	24.28	23.52	22.62	22.21	21.45	20.55
		1882.5	24.41	23.66	22.86	22.34	21.59	20.79
		1852.5	23.96	23.45	22.54	22.22	21.71	20.80
	1 RB low	1912.5	24.23	23.57	22.65	22.16	21.50	20.58
		1882.5	24.3	23.85	22.79	22.23	21.78	20.72
		1852.5	23.73	23.22	22.43	21.99	21.48	20.69
	50% RB mid	1912.5	23.37	22.54	21.86	21.30	20.47	19.79
		1882.5	23.48	22.5	21.79	21.41	20.43	19.72

	100% RB	1852.5	23.01	22.22	21.49	21.27	20.48	19.75
		1912.5	23.37	22.49	21.81	21.30	20.42	19.74
		1882.5	23.45	22.52	21.77	21.38	20.45	19.70
		1852.5	23.03	22.22	21.54	21.29	20.48	19.80
10MHz	1 RB high	1910	24.23	23.85	22.76	22.16	21.78	20.69
		1882.5	24.37	24.01	22.98	22.30	21.94	20.91
		1855	24.32	23.86	22.99	22.58	22.12	21.25
	1 RB low	1910	24.3	23.83	22.89	22.23	21.76	20.82
		1882.5	24.35	23.93	22.82	22.28	21.86	20.75
		1855	23.86	23.32	22.52	22.12	21.58	20.78
	50% RB mid	1910	23.42	22.5	21.72	21.35	20.43	19.65
		1882.5	23.52	22.61	21.81	21.45	20.54	19.74
		1855	23.18	22.35	21.65	21.44	20.61	19.91
	100% RB	1910	23.41	22.47	21.77	21.34	20.40	19.70
		1882.5	23.45	22.62	21.76	21.38	20.55	19.69
		1855	23.26	22.45	21.74	21.52	20.71	20.00
15MHz	1 RB high	1907.5	24.11	23.37	22.41	22.04	21.30	20.34
		1882.5	24.19	23.64	22.46	22.12	21.57	20.39
		1857.5	24.09	23.59	22.44	22.35	21.85	20.70
	1 RB low	1907.5	24.09	23.8	22.42	22.02	21.73	20.35
		1882.5	24.18	23.7	22.39	22.11	21.63	20.32
		1857.5	23.8	23.17	21.42	22.06	21.43	19.68
	50% RB mid	1907.5	23.41	22.49	21.58	21.34	20.42	19.51
		1882.5	23.39	22.43	21.61	21.32	20.36	19.54
		1857.5	23.4	22.46	21.4	21.66	20.72	19.66
	100% RB	1907.5	23.39	22.4	21.51	21.32	20.33	19.44
		1882.5	23.41	22.46	21.52	21.34	20.39	19.45
		1857.5	23.37	22.44	21.44	21.63	20.70	19.70
20MHz	1 RB high	1905	24.17	23.7	22.24	22.10	21.63	20.17
		1882.5	24.27	23.65	22.67	22.20	21.58	20.60
		1860	24.25	23.91	22.42	22.51	22.17	20.68
	1 RB low	1905	24.27	23.78	22.48	22.20	21.71	20.41
		1882.5	24.24	23.76	22.46	22.17	21.69	20.39
		1860	24.3	23.91	22.28	22.56	22.17	20.54
	50% RB mid	1905	23.49	22.47	21.58	21.42	20.40	19.51
		1882.5	23.4	22.48	21.43	21.33	20.41	19.36
		1860	23.51	22.48	21.53	21.77	20.74	19.79
	100% RB	1905	23.36	22.47	21.51	21.29	20.40	19.44
		1882.5	23.37	22.41	21.43	21.30	20.34	19.36
		1860	23.51	22.5	21.5	21.77	20.76	19.76

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

Max ERP: 17.95dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power (dBm)			Radiated Power (dBm) GT = -3.82 (dBi)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	823.3	23.81	22.98	21.72	17.84	17.01	15.75
		819	23.63	22.95	21.97	17.66	16.98	16.00
		814.7	23.64	22.76	21.14	17.67	16.79	15.17
	1 RB low	823.3	23.73	23.02	21.79	17.76	17.05	15.82
		819	23.64	22.96	21.76	17.67	16.99	15.79
		814.7	23.72	22.74	22.03	17.75	16.77	16.06
	50% RB mid	823.3	23.78	23.08	21.62	17.81	17.11	15.65
		819	23.77	23.1	21.67	17.80	17.13	15.70
		814.7	23.9	23.16	21.92	17.93	17.19	15.95
	100% RB	823.3	22.87	22.03	20.83	16.90	16.06	14.86
		819	22.83	21.97	21.47	16.86	16.00	15.50
		814.7	22.85	22.03	20.79	16.88	16.06	14.82
3MHz	1 RB high	822.5	23.84	22.98	21.91	17.87	17.01	15.94
		819	23.81	22.99	22.02	17.84	17.02	16.05
		815.5	23.9	23.1	22.31	17.93	17.13	16.34
	1 RB low	822.5	23.85	23.11	21.86	17.88	17.14	15.89
		819	23.85	23.1	21.91	17.88	17.13	15.94
		815.5	23.92	23.13	22.13	17.95	17.16	16.16
	50% RB mid	822.5	22.87	22	20.76	16.90	16.03	14.79
		819	22.82	22	20.83	16.85	16.03	14.86
		815.5	22.93	22.01	20.93	16.96	16.04	14.96
	100% RB	822.5	22.92	21.88	20.81	16.95	15.91	14.84
		819	22.86	21.88	20.87	16.89	15.91	14.90
		815.5	22.89	21.89	20.91	16.92	15.92	14.94
5MHz	1 RB high	821.5	23.8	22.93	21.77	17.83	16.96	15.80
		819	23.78	22.89	21.87	17.81	16.92	15.90
		816.5	23.82	22.89	22.01	17.85	16.92	16.04
	1 RB low	821.5	23.79	22.87	21.87	17.82	16.90	15.90
		819	23.78	22.86	21.91	17.81	16.89	15.94
		816.5	23.89	23.04	21.99	17.92	17.07	16.02
	50% RB mid	821.5	22.98	22.03	20.85	17.01	16.06	14.88
		819	22.95	22	20.96	16.98	16.03	14.99
		816.5	22.96	22.02	20.92	16.99	16.05	14.95
	100% RB	821.5	22.96	21.95	20.83	16.99	15.98	14.86
		819	22.94	21.96	20.88	16.97	15.99	14.91
		816.5	22.98	21.97	20.91	17.01	16.00	14.94

10MHz	1 RB high	819	23.82	23.04	21.94	17.85	17.07	15.97
	1 RB low	819	23.83	23.06	22.06	17.86	17.09	16.09
	50% RB mid	819	23.01	22.13	20.99	17.04	16.16	15.02
	100% RB	819	22.99	22.09	20.95	17.02	16.12	14.98

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

Max ERP: 17.95dBm

RB size/offset	Frequency (MHz)	Conducted Power (dBm)			Radiated Power (dBm) GT= -3.82 (dBi)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1 RB high	848.3	23.71	22.9	22.78	17.74	16.93	16.81
	836.5	23.8	23.02	22.83	17.83	17.05	16.86
	824.7	23.79	23.06	22.89	17.82	17.09	16.92
1 RB low	848.3	23.7	22.91	22.82	17.73	16.94	16.85
	836.5	23.76	22.96	22.89	17.79	16.99	16.92
	824.7	23.76	23	22.97	17.79	17.03	17.00
50% RB mid	848.3	23.74	23.03	22.77	17.77	17.06	16.80
	836.5	23.82	23.08	22.91	17.85	17.11	16.94
	824.7	23.79	23.12	22.94	17.82	17.15	16.97
100% RB	848.3	22.81	21.95	21.72	16.84	15.98	15.75
	836.5	22.79	21.95	21.81	16.82	15.98	15.84
	824.7	22.84	22.07	21.88	16.87	16.10	15.91
1 RB high	847.5	23.77	22.94	22.79	17.80	16.97	16.82
	836.5	23.87	23.04	22.87	17.90	17.07	16.90
	825.5	23.92	23.03	22.98	17.95	17.06	17.01
1 RB low	847.5	23.85	23.05	22.91	17.88	17.08	16.94
	836.5	23.9	23.09	22.82	17.93	17.12	16.85
	825.5	23.92	23.05	22.87	17.95	17.08	16.90
50% RB mid	847.5	22.82	21.95	21.87	16.85	15.98	15.90
	836.5	22.88	22.02	21.92	16.91	16.05	15.95
	825.5	22.93	22.02	21.98	16.96	16.05	16.01
100% RB	847.5	22.85	21.86	21.79	16.88	15.89	15.82
	836.5	22.86	21.85	21.85	16.89	15.88	15.88
	825.5	22.91	21.91	21.86	16.94	15.94	15.89
1 RB high	846.5	23.76	22.86	22.85	17.79	16.89	16.88
	836.5	23.83	22.92	22.92	17.86	16.95	16.95
	826.5	23.88	23.05	22.91	17.91	17.08	16.94
1 RB low	846.5	23.86	22.96	22.74	17.89	16.99	16.77
	836.5	23.84	22.98	22.94	17.87	17.01	16.97
	826.5	23.87	22.97	22.92	17.90	17.00	16.95
50% RB mid	846.5	22.94	22	21.79	16.97	16.03	15.82
	836.5	23.01	21.98	21.92	17.04	16.01	15.95
	826.5	22.96	22.06	21.93	16.99	16.09	15.96
100% RB	846.5	22.92	21.91	21.67	16.95	15.94	15.70
	836.5	22.9	21.91	21.75	16.93	15.94	15.78
	826.5	22.92	21.92	21.84	16.95	15.95	15.87

1 RB high	844	23.82	22.92	22.87	17.85	16.95	16.90
	836.5	23.88	22.97	22.94	17.91	17.00	16.97
	829	23.83	23.1	22.97	17.86	17.13	17.00
1 RB low	844	23.88	23.04	22.79	17.91	17.07	16.82
	836.5	23.91	23	22.89	17.94	17.03	16.92
	829	23.85	23.13	22.94	17.88	17.16	16.97
50% RB mid	844	23.01	22.03	21.73	17.04	16.06	15.76
	836.5	22.98	22.08	21.83	17.01	16.11	15.86
	829	23.04	22.13	21.92	17.07	16.16	15.95
100% RB	844	22.93	22.02	21.69	16.96	16.05	15.72
	836.5	22.9	22.01	21.76	16.93	16.04	15.79
	829	23.02	22.07	21.79	17.05	16.10	15.82
1 RB high	841.5	23.66	23.12	22.76	17.69	17.15	16.79
	836.5	23.71	23.16	22.88	17.74	17.19	16.91
	831.5	23.67	23.32	22.96	17.70	17.35	16.99
1 RB low	841.5	23.8	23.24	22.89	17.83	17.27	16.92
	836.5	23.78	23.21	22.94	17.81	17.24	16.97
	831.5	23.68	23.39	22.95	17.71	17.42	16.98
50% RB mid	841.5	22.89	21.8	21.59	16.92	15.83	15.62
	836.5	22.89	21.82	21.65	16.92	15.85	15.68
	831.5	22.92	21.78	21.67	16.95	15.81	15.70
100% RB	841.5	22.84	21.8	21.57	16.87	15.83	15.60
	836.5	22.86	21.8	21.62	16.89	15.83	15.65
	831.5	22.79	21.84	21.73	16.82	15.87	15.76

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

Max EIRP: 27.65dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power (dBm)			Radiated Power (dBm) GT=0.96 (dBi)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5MHz	1 RB high	2687.5	26.28	25.3	24.64	27.24	26.26	25.60
		2593	26.44	25.58	24.86	27.40	26.54	25.82
		2498.5	26.34	25.54	24.91	27.30	26.50	25.87
	1 RB low	2687.5	26.59	25.58	24.9	27.55	26.54	25.86
		2593	26.36	25.53	24.75	27.32	26.49	25.71
		2498.5	26.29	25.44	24.88	27.25	26.40	25.84
	50% RB mid	2687.5	25.51	24.62	23.97	26.47	25.58	24.93
		2593	25.41	24.55	23.83	26.37	25.51	24.79
		2498.5	25.34	24.33	23.65	26.30	25.29	24.61
	100% RB	2687.5	25.48	24.64	23.92	26.44	25.60	24.88
		2593	25.4	24.49	23.75	26.36	25.45	24.71
		2498.5	25.33	24.39	23.62	26.29	25.35	24.58
10MHz	1 RB high	2685	26.39	25.44	24.7	27.35	26.40	25.66
		2593	26.27	25.6	24.83	27.23	26.56	25.79
		2501	26.31	25.57	24.84	27.27	26.53	25.80
	1 RB low	2685	26.69	26	24.95	27.65	26.96	25.91
		2593	26.42	25.67	24.96	27.38	26.63	25.92
		2501	26.18	25.58	24.78	27.14	26.54	25.74
	50% RB mid	2685	25.64	24.72	23.98	26.60	25.68	24.94
		2593	25.45	24.53	23.79	26.41	25.49	24.75
		2501	25.36	24.43	23.67	26.32	25.39	24.63
	100% RB	2685	25.64	24.71	23.95	26.60	25.67	24.91
		2593	25.46	24.55	23.78	26.42	25.51	24.74
		2501	25.35	24.47	23.65	26.31	25.43	24.61
15MHz	1 RB high	2682.5	25.89	25.02	23.24	26.85	25.98	24.20
		2593	26.41	24.78	24	27.37	25.74	24.96
		2503.5	26.1	25.49	24.78	27.06	26.45	25.74
	1 RB low	2682.5	26.46	25.45	24.69	27.42	26.41	25.65
		2593	26.2	24.99	24.21	27.16	25.95	25.17
		2503.5	25.96	25.38	24.67	26.92	26.34	25.63
	50% RB mid	2682.5	25.63	24.64	23.92	26.59	25.60	24.88
		2593	25.34	24.33	23.68	26.30	25.29	24.64
		2503.5	25.23	24.27	23.56	26.19	25.23	24.52
	100% RB	2682.5	25.5	24.55	23.87	26.46	25.51	24.83
		2593	25.32	24.38	23.7	26.28	25.34	24.66
		2503.5	25.25	24.3	23.58	26.21	25.26	24.54

20MHz	1 RB high	2680	26.32	25.75	24.48	27.28	26.71	25.44
		2593	26.4	25.8	24.61	27.36	26.76	25.57
		2506	26.34	25.73	24.47	27.30	26.69	25.43
	1 RB low	2680	26.52	25.89	24.6	27.48	26.85	25.56
		2593	26.47	25.84	24.59	27.43	26.80	25.55
		2506	26.14	25.53	24.27	27.10	26.49	25.23
	50% RB mid	2680	25.52	24.55	23.62	26.48	25.51	24.58
		2593	25.63	24.7	23.71	26.59	25.66	24.67
		2506	25.53	24.54	23.6	26.49	25.50	24.56
	100% RB	2680	25.54	24.63	23.57	26.50	25.59	24.53
		2593	25.63	24.71	23.71	26.59	25.67	24.67
		2506	25.55	24.54	23.58	26.51	25.50	24.54

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

Max EIRP: 27.68dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT=0.96 (dBi)
				Size	Offset	Size	Offset		
5MHz/ 20MHz	2583.8	2595.5	QPSK	25	0	100	0	24.89	25.85
				1	24	1	0	26.69	27.65
			16QAM	25	0	100	0	23.81	24.77
				1	24	1	0	25.78	26.74
			64QAM	25	0	100	0	23.86	24.82
				1	24	1	0	25.06	26.02
			256QAM	25	0	100	0	21.98	22.94
				1	24	1	0	21.93	22.89
10MHz/ 15MHz	2585.9	2597.9	QPSK	50	0	75	0	24.88	25.84
				1	49	1	0	26.46	27.42
			16QAM	50	0	75	0	23.95	24.91
				1	49	1	0	25.72	26.68
			64QAM	50	0	75	0	23.94	24.90
				1	49	1	0	25.04	26.00
			256QAM	50	0	75	0	21.92	22.88
				1	49	1	0	21.93	22.89
10MHz/ 20MHz	2583.6	2598	QPSK	50	0	100	0	24.76	25.72
				1	49	1	0	26.46	27.42
			16QAM	50	0	100	0	23.94	24.90
				1	49	1	0	25.64	26.60
			64QAM	50	0	100	0	23.91	24.87
				1	49	1	0	25.04	26.00
			256QAM	50	0	100	0	21.96	22.92
				1	49	1	0	21.98	22.94
15MHz/ 10MHz	2588.1	2600.1	QPSK	75	0	50	0	24.86	25.82
				1	74	1	0	26.51	27.47
			16QAM	75	0	50	0	23.87	24.83
				1	74	1	0	25.58	26.54
			64QAM	75	0	50	0	23.92	24.88
				1	74	1	0	25.02	25.98
			256QAM	75	0	50	0	21.93	22.89
				1	74	1	0	21.98	22.94
15MHz/ 15MHz	2585.5	2600.5	QPSK	75	0	75	0	24.88	25.84
				1	74	1	0	26.59	27.55

			16QAM	75	0	75	0	23.82	24.78
				1	74	1	0	25.49	26.45
			64QAM	75	0	75	0	23.92	24.88
				1	74	1	0	24.76	25.72
			256QAM	75	0	75	0	21.88	22.84
				1	74	1	0	21.94	22.90
15MHz/ 20MHz	2583.3	2600.4	QPSK	75	0	100	0	24.75	25.71
				1	74	1	0	26.46	27.42
			16QAM	75	0	100	0	23.76	24.72
				1	74	1	0	25.56	26.52
			64QAM	75	0	100	0	23.94	24.90
				1	74	1	0	24.97	25.93
20MHz/ 5MHz	2590.5	2602.2	QPSK	75	0	100	0	21.94	22.90
				1	74	1	0	21.89	22.85
			16QAM	100	0	25	0	24.78	25.74
				1	99	1	0	26.69	27.65
			64QAM	100	0	25	0	23.94	24.90
				1	99	1	0	25.69	26.65
20MHz/ 10MHz	2588.1	2602.5	QPSK	100	0	25	0	23.91	24.87
				1	99	1	0	25.11	26.07
			16QAM	100	0	25	0	21.89	22.85
				1	99	1	0	22.09	23.05
			64QAM	100	0	50	0	24.86	25.82
				1	99	1	0	26.56	27.52
20MHz/ 15MHz	2585.6	2602.7	QPSK	100	0	50	0	23.92	24.88
				1	99	1	0	25.57	26.53
			16QAM	100	0	50	0	23.94	24.90
				1	99	1	0	25.15	26.11
			64QAM	100	0	50	0	21.95	22.91
				1	99	1	0	22.04	23.00
20MHz/ 20MHz	2583.1	2602.9	QPSK	100	0	75	0	24.86	25.82
				1	99	1	0	26.71	27.67
			16QAM	100	0	75	0	23.94	24.90
				1	99	1	0	25.75	26.71
			64QAM	100	0	75	0	23.89	24.85
				1	99	1	0	25.01	25.97
			256QAM	100	0	75	0	21.97	22.93
				1	99	1	0	21.92	22.88
			QPSK	100	0	100	0	25.16	26.12
				1	99	1	0	26.72	27.68
			16QAM	100	0	100	0	24.19	25.15

				1	99	1	0	25.78	26.74
			64QAM	100	0	100	0	24.22	25.18
				1	99	1	0	25.12	26.08
			256QAM	100	0	100	0	22.13	23.09
				1	99	1	0	22.09	23.05

LTE band 66- EIRP
Limits: ≤30dBm (1W)

Max EIRP: 21.59dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power (dBm)			Radiated Power (dBm) GT = -1.74(dBi)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	1779.3	23	22.22	22.21	21.26	20.48	20.47
		1745	23.02	22.37	22.3	21.28	20.63	20.56
		1710.7	23.05	22.36	22.41	21.31	20.62	20.67
	1 RB low	1779.3	23.04	22.23	22.16	21.30	20.49	20.42
		1745	23.05	22.39	22.33	21.31	20.65	20.59
		1710.7	23.02	22.39	22.34	21.28	20.65	20.60
	50% RB mid	1779.3	23.04	22.19	22.19	21.30	20.45	20.45
		1745	23.33	22.01	22.18	21.59	20.27	20.44
		1710.7	23.19	22.07	22.1	21.45	20.33	20.36
	100% RB	1779.3	22.11	21.38	21.24	20.37	19.64	19.50
		1745	22.2	21.36	21.15	20.46	19.62	19.41
		1710.7	22.22	21.16	21.24	20.48	19.42	19.50
3MHz	1 RB high	1778.5	23.13	22.54	22.21	21.39	20.80	20.47
		1745	23.18	22.52	22.35	21.44	20.78	20.61
		1711.5	23.29	22.64	22.35	21.55	20.90	20.61
	1 RB low	1778.5	23.14	22.45	22.34	21.40	20.71	20.60
		1745	23.2	22.44	22.39	21.46	20.70	20.65
		1711.5	23.16	22.54	22.39	21.42	20.80	20.65
	50% RB mid	1778.5	22.31	21.33	21.23	20.57	19.59	19.49
		1745	22.31	21.41	21.36	20.57	19.67	19.62
		1711.5	22.39	21.43	21.37	20.65	19.69	19.63
	100% RB	1778.5	22.28	21.31	21.29	20.54	19.57	19.55
		1745	22.26	21.18	21.27	20.52	19.44	19.53
		1711.5	22.31	21.38	21.35	20.57	19.64	19.61
5MHz	1 RB high	1777.5	23.11	22.51	22.17	21.37	20.77	20.43
		1745	23.12	22.58	21.33	21.38	20.84	19.59
		1712.5	23.11	22.57	21.41	21.37	20.83	19.67
	1 RB low	1777.5	23.14	22.58	22.39	21.40	20.84	20.65
		1745	23.22	22.61	21.4	21.48	20.87	19.66
		1712.5	23.17	22.59	21.49	21.43	20.85	19.75
	50% RB mid	1777.5	22.29	21.39	21.36	20.55	19.65	19.62
		1745	22.31	21.32	20.29	20.57	19.58	18.55
		1712.5	22.38	21.44	20.47	20.64	19.70	18.73
	100% RB	1777.5	22.23	21.36	21.33	20.49	19.62	19.59
		1745	22.21	21.32	20.37	20.47	19.58	18.63
		1712.5	22.31	21.36	20.45	20.57	19.62	18.71

10MHz	1 RB high	1775	23.07	22.67	22.39	21.33	20.93	20.65
		1745	23.13	22.72	22.27	21.39	20.98	20.53
		1715	23.09	22.52	22.36	21.35	20.78	20.62
	1 RB low	1775	23.11	22.53	22.4	21.37	20.79	20.66
		1745	23.1	22.4	22.43	21.36	20.66	20.69
		1715	23.19	22.68	22.45	21.45	20.94	20.71
	50% RB mid	1775	22.23	21.38	21.39	20.49	19.64	19.65
		1745	22.24	21.32	21.4	20.50	19.58	19.66
		1715	22.33	21.47	21.34	20.59	19.73	19.60
	100% RB	1775	22.24	21.39	21.18	20.50	19.65	19.44
		1745	22.26	21.27	21.23	20.52	19.53	19.49
		1715	22.34	21.45	21.33	20.60	19.71	19.59
15MHz	1 RB high	1772.5	23.05	22.41	22.48	21.31	20.67	20.74
		1745	23.04	22.35	22.41	21.30	20.61	20.67
		1717.5	23.02	22.39	22.29	21.28	20.65	20.55
	1 RB low	1772.5	23.09	22.5	22.41	21.35	20.76	20.67
		1745	23.06	22.43	22.33	21.32	20.69	20.59
		1717.5	23.07	22.56	22.4	21.33	20.82	20.66
	50% RB mid	1772.5	22.09	21.09	21.16	20.35	19.35	19.42
		1745	22.11	21.23	21.2	20.37	19.49	19.46
		1717.5	22.21	21.3	21.27	20.47	19.56	19.53
	100% RB	1772.5	22.06	21.13	21.25	20.32	19.39	19.51
		1745	22.21	21.13	21.2	20.47	19.39	19.46
		1717.5	22.25	21.24	21.22	20.51	19.50	19.48
20MHz	1 RB high	1770	23.19	22.31	22.26	21.45	20.57	20.52
		1745	23.09	22.39	22.25	21.35	20.65	20.51
		1720	23.07	22.44	21.12	21.33	20.70	19.38
	1 RB low	1770	23.03	22.36	22.25	21.29	20.62	20.51
		1745	23.09	22.44	22.3	21.35	20.70	20.56
		1720	23.21	22.4	21.11	21.47	20.66	19.37
	50% RB mid	1770	22.04	21.12	21.04	20.30	19.38	19.30
		1745	22.24	21.26	21.17	20.50	19.52	19.43
		1720	22.15	21.19	20.21	20.41	19.45	18.47
	100% RB	1770	22.08	21.08	21.14	20.34	19.34	19.40
		1745	22.23	21.24	20.27	20.49	19.50	18.53
		1720	22.16	21.17	20.22	20.42	19.43	18.48

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

Max EIRP: 23.03dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = -1.74(dBi)
				Size	Offset	Size	Offset		
5MHz/ 5MHz	1752.6	1757.4	QPSK	1	24	1	0	24.77	23.03
				25	0	25	0	22.84	21.1
			16QAM	1	24	1	0	23.17	21.43
				25	0	25	0	21.88	20.14
			64QAM	1	24	1	0	23.18	21.44
				25	0	25	0	21.86	20.12
			256QAM	1	24	1	0	19.89	18.15
				25	0	25	0	19.83	18.09
5MHz/ 10MHz	1750.3	1757.5	QPSK	1	24	1	0	24.66	22.92
				25	0	50	0	22.65	20.91
			16QAM	1	24	1	0	24.16	22.42
				25	0	50	0	21.69	19.95
			64QAM	1	24	1	0	22.85	21.11
				25	0	50	0	21.76	20.02
			256QAM	1	24	1	0	20.07	18.33
				25	0	50	0	19.62	17.88
5MHz/ 15MHz	1748.1	1757.4	QPSK	1	24	1	0	24.77	23.03
				25	0	75	0	22.75	21.01
			16QAM	1	24	1	0	24.16	22.42
				25	0	75	0	21.78	20.04
			64QAM	1	24	1	0	22.93	21.19
				25	0	75	0	21.77	20.03
			256QAM	1	24	1	0	19.81	18.07
				25	0	75	0	19.71	17.97
10MHz/ 5MHz	1752.5	1759.7	QPSK	1	49	1	0	24.65	22.91
				50	0	25	0	22.62	20.88
			16QAM	1	49	1	0	23.89	22.15
				50	0	25	0	21.63	19.89
			64QAM	1	49	1	0	23.05	21.31
				50	0	25	0	21.71	19.97
			256QAM	1	49	1	0	19.57	17.83
				50	0	25	0	19.68	17.94
10MHz/ 10MHz	1750.1	1760	QPSK	1	49	1	0	24.51	22.77
				50	0	50	0	22.39	20.65

15MHz/ 5MHz	1752.6	1761.9	16QAM	1	49	1	0	24.08	22.34
				50	0	50	0	21.44	19.7
			64QAM	1	49	1	0	22.86	21.12
				50	0	50	0	21.47	19.73
			256QAM	1	49	1	0	19.88	18.14
				50	0	50	0	19.52	17.78
			QPSK	1	74	1	0	24.67	22.93
				75	0	25	0	22.67	20.93
			16QAM	1	74	1	0	24.29	22.55
				75	0	25	0	21.72	19.98
			64QAM	1	74	1	0	22.91	21.17
				75	0	25	0	21.75	20.01
			256QAM	1	74	1	0	19.71	17.97
				75	0	25	0	19.82	18.08

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

Max EIRP: 22.95dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = -1.74(dBi)
				Size	Offset	Size	Offset		
5MHz/ 20MHz	1745.8	1757.5	QPSK	1	24	1	0	24.59	22.85
				25	0	100	0	22.71	20.97
			16QAM	1	24	1	0	24.13	22.39
				25	0	100	0	21.72	19.98
			64QAM	1	24	1	0	22.97	21.23
				25	0	100	0	21.81	20.07
			256QAM	1	24	1	0	20.22	18.48
				25	0	100	0	19.77	18.03
10MHz/ 15MHz	1747.9	1757.9	QPSK	1	49	1	0	24.65	22.91
				50	0	75	0	22.68	20.94
			16QAM	1	49	1	0	24.32	22.58
				50	0	75	0	21.69	19.95
			64QAM	1	49	1	0	22.81	21.07
				50	0	75	0	21.72	19.98
			256QAM	1	49	1	0	19.87	18.13
				50	0	75	0	19.79	18.05
10MHz/ 20MHz	1745.6	1760	QPSK	1	49	1	0	24.69	22.95
				50	0	100	0	22.83	21.09
			16QAM	1	49	1	0	23.95	22.21
				50	0	100	0	21.98	20.24
			64QAM	1	49	1	0	23.02	21.28
				50	0	100	0	21.79	20.05
			256QAM	1	49	1	0	20.24	18.5
				50	0	100	0	19.86	18.12
15MHz/ 10MHz	1750.1	1762.1	QPSK	1	74	1	0	24.55	22.81
				75	0	50	0	22.71	20.97
			16QAM	1	74	1	0	23.77	22.03
				75	0	50	0	21.66	19.92
			64QAM	1	74	1	0	22.48	20.74
				75	0	50	0	21.63	19.89
			256QAM	1	74	1	0	19.44	17.7
				75	0	50	0	19.67	17.93
15MHz/ 15MHz	1747.5	1762.5	QPSK	1	74	1	0	24.39	22.65
				75	0	75	0	22.65	20.91

			16QAM	1	74	1	0	23.53	21.79
				75	0	75	0	21.73	19.99
			64QAM	1	74	1	0	22.85	21.11
				75	0	75	0	21.68	19.94
			256QAM	1	74	1	0	20.03	18.29
				75	0	75	0	19.69	17.95
15MHz/ 20MHz	1745.3	1762.4	QPSK	1	74	1	0	24.57	22.83
				75	0	100	0	22.61	20.87
			16QAM	1	74	1	0	23.81	22.07
				75	0	100	0	21.66	19.92
			64QAM	1	74	1	0	22.89	21.15
				75	0	100	0	21.68	19.94
20MHz/ 5MHz	1752.5	1764.2	QPSK	1	99	1	0	24.34	22.6
				100	0	25	0	22.61	20.87
			16QAM	1	99	1	0	23.66	21.92
				100	0	25	0	21.59	19.85
			64QAM	1	99	1	0	22.89	21.15
				100	0	25	0	21.67	19.93
20MHz/ 10MHz	1750.1	1764.5	QPSK	1	99	1	0	24.46	22.72
				100	0	50	0	22.59	20.85
			16QAM	1	99	1	0	23.79	22.05
				100	0	50	0	21.57	19.83
			64QAM	1	99	1	0	22.66	20.92
				100	0	50	0	21.59	19.85
20MHz/ 15MHz	1747.6	1764.7	QPSK	1	99	1	0	24.39	22.65
				100	0	75	0	22.57	20.83
			16QAM	1	99	1	0	24.04	22.3
				100	0	75	0	21.59	19.85
			64QAM	1	99	1	0	22.91	21.17
				100	0	75	0	21.53	19.79
20MHz/ 20MHz	1745.1	1764.9	QPSK	1	99	1	0	24.41	22.67
				100	0	100	0	22.43	20.69
			16QAM	1	99	1	0	23.92	22.18

				100	0	100	0	21.52	19.78
			64QAM	1	99	1	0	22.74	21
				100	0	100	0	21.56	19.82
			256QAM	1	99	1	0	19.66	17.92
				100	0	100	0	19.47	17.73

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

Max EIRP: 18.12dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power (dBm)			Radiated Power (dBm) GT= -4.04 (dBi)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5MHz	1 RB high	695.5	23.62	22.23	22.17	17.43	16.04	15.98
		680.5	23.61	22.32	21.86	17.42	16.13	15.67
		665.5	23.91	22.2	22.04	17.72	16.01	15.85
	1 RB low	695.5	23.61	23.65	22.43	17.42	17.46	16.24
		680.5	23.55	23.91	24.17	17.36	17.72	17.98
		665.5	23.55	22.86	22.64	17.36	16.67	16.45
	50% RB mid	695.5	23.91	22.94	22.43	17.72	16.75	16.24
		680.5	23.91	21.67	22.65	17.72	15.48	16.46
		665.5	22.41	21.44	21.41	16.22	15.25	15.22
	100% RB	695.5	23.83	22.96	21.94	17.64	16.77	15.75
		680.5	23.99	22.94	21.94	17.80	16.75	15.75
		665.5	22.39	21.44	21.42	16.20	15.25	15.23
10MHz	1 RB high	693	23.04	22.36	22.19	16.85	16.17	16.00
		680.5	23.04	22.04	21.79	16.85	15.85	15.60
		668	23.54	22.54	23.85	17.35	16.35	17.66
	1 RB low	693	23.04	22.33	24.29	16.85	16.14	18.10
		680.5	23.04	22.43	24.31	16.85	16.24	18.12
		668	23.8	23.1	22.92	17.61	16.91	16.73
	50% RB mid	693	23.92	23	21.86	17.73	16.81	15.67
		680.5	23.43	22.94	21.91	17.24	16.75	15.72
		668	22.12	21.11	21.01	15.93	14.92	14.82
	100% RB	693	23.93	22.94	21.73	17.74	16.75	15.54
		680.5	23.11	22.9	21.8	16.92	16.71	15.61
		668	22.88	21.91	21.26	16.69	15.72	15.07
15MHz	1 RB high	690.5	23.51	24.56	22.29	17.32	18.37	16.10
		680.5	23.62	24.46	23.23	17.43	18.27	17.04
		670.5	23.51	24.36	22.25	17.32	18.17	16.06
	1 RB low	690.5	23.51	24.59	21.53	17.32	18.40	15.34
		680.5	23.55	24.52	21.55	17.36	18.33	15.36
		670.5	23.52	23.35	20.96	17.33	17.16	14.77
	50% RB mid	690.5	23.16	22.16	21.55	16.97	15.97	15.36
		680.5	23.14	22.16	21.51	16.95	15.97	15.32
		670.5	23.1	22.18	20.03	16.91	15.99	13.84
	100% RB	690.5	23.18	22.19	21.03	16.99	16.00	14.84
		680.5	23.1	22.16	21.94	16.91	15.97	15.75
		670.5	23.14	22.11	20.6	16.95	15.92	14.41

20MHz	1 RB high	688	24.02	23.44	22.14	17.83	17.25	15.95
		680.5	23.98	23.63	22.31	17.79	17.44	16.12
		673	24.08	23.59	22.36	17.89	17.40	16.17
	1 RB low	688	24.21	23.65	22.32	18.02	17.46	16.13
		680.5	24.13	23.63	22.01	17.94	17.44	15.82
		673	23.64	22.89	20.94	17.45	16.70	14.75
	50% RB mid	688	23.28	22.26	21.16	17.09	16.07	14.97
		680.5	23.25	22.28	21.37	17.06	16.09	15.18
		673	23.27	22.3	20.9	17.08	16.11	14.71
	100% RB	688	23.28	22.32	21.09	17.09	16.13	14.90
		680.5	23.2	22.27	21.22	17.01	16.08	15.03
		673	23.23	22.25	20.64	17.04	16.06	14.45

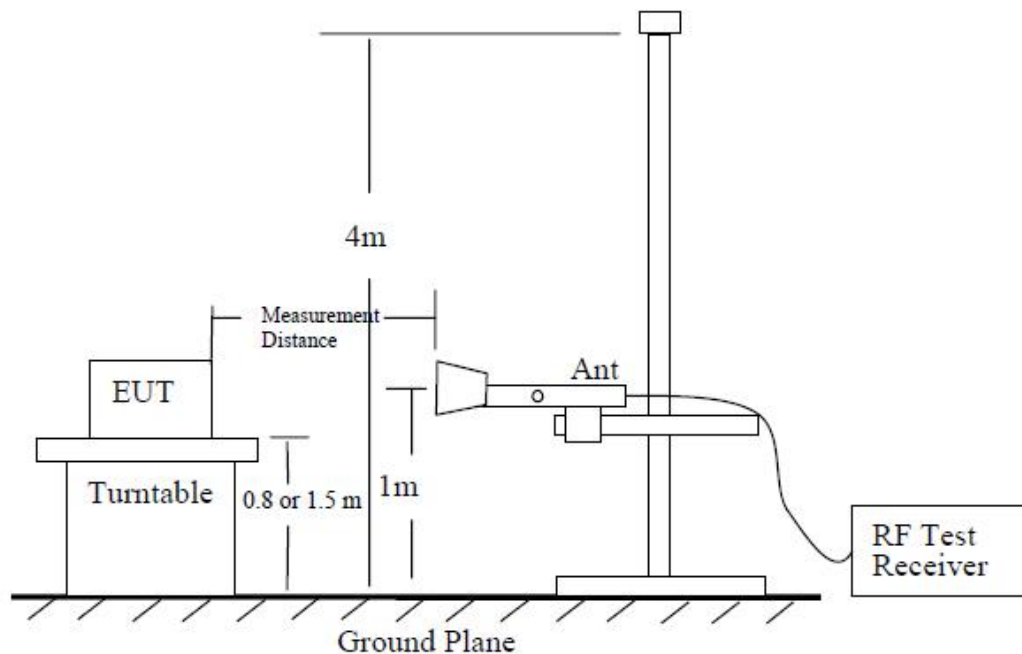
A.2 Emission Limit

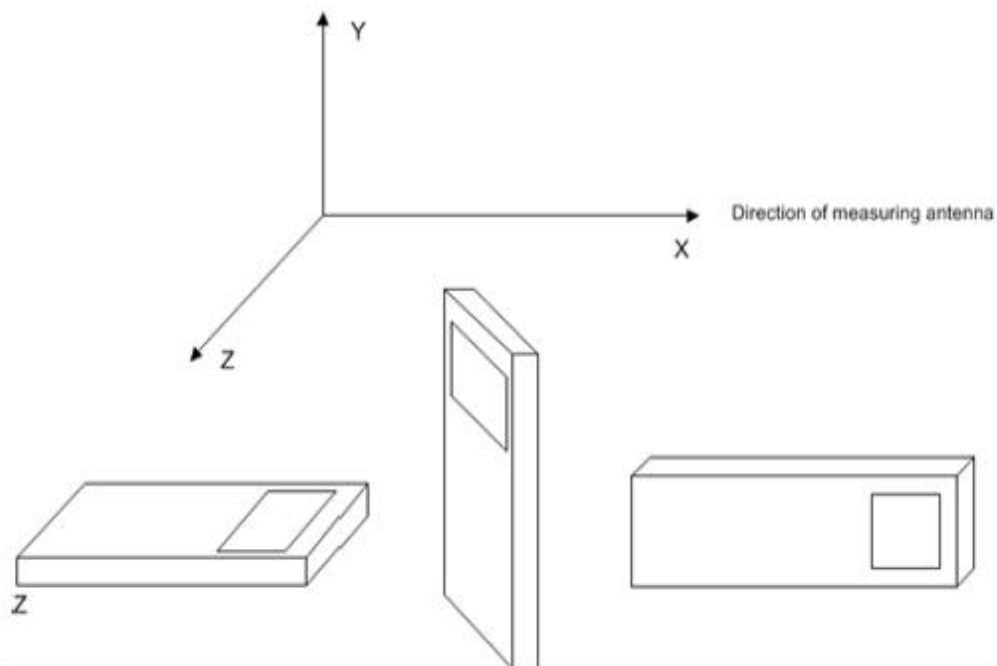
The measurements procedures in C63.26 are used.

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 2/4/5/7/12/13/14/17/71.

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 2/25: 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 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 that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. ".

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 4/66: 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"

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.”

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 7/12/13/25/26/41/71 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:
First source:
LTE Band 2, 1.4MHz, QPSK, Channel 18607

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3747.02	-60.07	6.30	8.55	-57.82	-13.00	44.82	V
5598.02	-58.12	7.23	10.58	-54.77	-13.00	41.77	V
7440.01	-53.59	8.23	12.13	-49.69	-13.00	36.69	V
9255.01	-52.46	9.05	13.25	-48.26	-13.00	35.26	H
11063.01	-50.20	9.90	13.19	-46.91	-13.00	33.91	V
13004.01	-46.36	10.48	13.51	-43.33	-13.00	30.33	H

LTE Band 2, 1.4MHz, QPSK, Channel 18900

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3737.02	-59.84	6.33	8.53	-57.64	-13.00	44.64	V
5688.02	-58.52	7.29	10.56	-55.25	-13.00	42.25	V
7476.01	-53.63	8.33	12.17	-49.79	-13.00	36.79	V
9354.01	-52.62	9.09	13.31	-48.40	-13.00	35.40	V
11260.01	-49.06	9.76	13.15	-45.67	-13.00	32.67	V
13125.01	-44.52	10.83	13.68	-41.67	-13.00	28.67	V

LTE Band 2, 1.4MHz, QPSK, Channel 19193

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3801.02	-61.10	6.14	8.62	-58.62	-13.00	45.62	H
5716.02	-57.08	7.30	10.56	-53.82	-13.00	40.82	V
7618.01	-54.31	8.05	12.29	-50.07	-13.00	37.07	V
9588.01	-53.46	9.22	13.31	-49.37	-13.00	36.37	V
11439.01	-48.64	9.97	13.11	-45.50	-13.00	32.50	V
13403.01	-43.73	10.57	14.06	-40.24	-13.00	27.24	H

LTE Band 4, 1.4MHz, QPSK, Channel 19957

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3460.02	-72.34	5.45	8.10	-69.69	-13.00	56.69	H
5086.02	-69.58	6.73	10.02	-66.29	-13.00	53.29	V
6851.01	-64.59	7.82	11.42	-60.99	-13.00	47.99	V
8555.01	-63.53	8.57	13.01	-59.09	-13.00	46.09	V
10311.01	-61.14	9.66	13.02	-57.78	-13.00	44.78	V
11980.01	-58.22	10.14	13.00	-55.36	-13.00	42.36	V

LTE Band 4, 1.4MHz, QPSK, Channel 20175

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.02	-71.75	5.46	8.12	-69.09	-13.00	56.09	H
5148.02	-70.15	6.88	10.11	-66.92	-13.00	53.92	H
6881.01	-64.99	7.78	11.46	-61.31	-13.00	48.31	V
8664.01	-62.61	8.41	13.03	-57.99	-13.00	44.99	V
10436.01	-60.63	9.75	13.07	-57.31	-13.00	44.31	V
12131.01	-58.32	10.26	13.05	-55.53	-13.00	42.53	V

LTE Band 4, 1.4MHz, QPSK, Channel 20393

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3509.02	-70.86	5.54	8.21	-68.19	-13.00	55.19	H
5283.02	-70.78	6.99	10.30	-67.47	-13.00	54.47	V
7001.01	-64.50	8.30	11.60	-61.20	-13.00	48.20	V
8773.01	-62.35	8.58	13.05	-57.88	-13.00	44.88	V
10477.01	-60.74	9.69	13.09	-57.34	-13.00	44.34	V
12249.01	-58.57	10.03	13.10	-55.50	-13.00	42.50	V

LTE Band 5, 1.4MHz, QPSK, Channel 20407

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1637.01	-54.12	3.56	5.25	2.15	-54.58	-13.00	41.58	H
2484.00	-47.61	4.61	6.05	2.15	-48.32	-13.00	35.32	H
3307.02	-61.66	5.29	7.74	2.15	-61.36	-13.00	48.36	V
4111.02	-56.57	6.04	9.01	2.15	-55.75	-13.00	42.75	V
4937.01	-57.30	6.71	9.84	2.15	-56.32	-13.00	43.32	H
5775.01	-56.96	7.23	10.54	2.15	-55.80	-13.00	42.80	V

LTE Band 5, 1.4MHz, QPSK, Channel 20525

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1659.01	-55.02	3.57	5.21	2.15	-55.53	-13.00	42.53	H
2522.00	-47.45	4.65	6.14	2.15	-48.11	-13.00	35.11	H
3342.02	-61.29	5.31	7.82	2.15	-60.93	-13.00	47.93	V
4189.02	-57.13	6.18	9.09	2.15	-56.37	-13.00	43.37	V
5032.01	-57.23	6.58	9.94	2.15	-56.02	-13.00	43.02	V
5845.01	-56.61	7.22	10.53	2.15	-55.45	-13.00	42.45	V

LTE Band 5, 1.4MHz, QPSK, Channel 20643

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1701.01	-55.00	3.60	5.14	2.15	-55.61	-13.00	42.61	V
2533.00	-45.84	4.66	6.16	2.15	-46.49	-13.00	33.49	H
3379.02	-60.06	5.34	7.91	2.15	-59.64	-13.00	46.64	V
4246.02	-57.43	6.24	9.15	2.15	-56.67	-13.00	43.67	H
5099.01	-57.22	6.77	10.04	2.15	-56.10	-13.00	43.10	V
5945.01	-55.98	7.47	10.51	2.15	-55.09	-13.00	42.09	V

LTE Band 7, 5 MHz, QPSK, Channel 20775

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4988.02	-58.94	6.62	9.89	-55.67	-25.00	30.67	H
7496.01	-54.59	8.38	12.20	-50.77	-25.00	25.77	V
10011.01	-51.73	9.21	12.90	-48.04	-25.00	23.04	H
12496.01	-48.45	10.18	13.20	-45.43	-25.00	20.43	V
14999.00	-42.88	11.21	14.00	-40.09	-25.00	15.09	H
17517.00	-37.87	12.79	14.92	-35.74	-25.00	10.74	V

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5066.02	-59.13	6.68	9.99	-55.82	-25.00	30.82	V
7601.01	-54.73	7.98	12.28	-50.43	-25.00	25.43	H
10141.01	-50.61	9.40	12.96	-47.05	-25.00	22.05	H
12660.01	-48.19	10.37	13.30	-45.26	-25.00	20.26	H
15220.00	-44.27	11.37	13.87	-41.77	-25.00	16.77	H
17754.00	-40.24	12.48	15.26	-37.46	-25.00	12.46	V

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5128.02	-58.50	6.85	10.08	-55.27	-25.00	30.27	V
7716.01	-54.91	8.40	12.37	-50.94	-25.00	25.94	H
10271.01	-48.71	9.54	13.01	-45.24	-25.00	20.24	H
12821.01	-47.40	10.71	13.39	-44.72	-25.00	19.72	H
15423.00	-43.36	11.43	13.75	-41.04	-25.00	16.04	V
17963.00	-40.39	12.89	15.55	-37.73	-25.00	12.73	V

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1330.01	-54.28	3.15	4.62	2.15	-54.96	-13.00	41.96	H
2002.00	-49.97	4.06	4.61	2.15	-51.57	-13.00	38.57	H
2681.00	-45.01	4.77	6.43	2.15	-45.50	-13.00	32.50	H
3340.02	-60.77	5.31	7.82	2.15	-60.41	-13.00	47.41	V
4015.02	-57.62	6.06	8.92	2.15	-56.91	-13.00	43.91	H
4678.02	-57.50	6.49	9.58	2.15	-56.56	-13.00	43.56	V

LTE Band 12, 1.4MHz, QPSK, Channel 23095

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1426.01	-55.74	3.27	5.12	2.15	-56.04	-13.00	43.04	V
2136.00	-48.77	4.23	5.01	2.15	-50.14	-13.00	37.14	H
2827.00	-45.33	4.95	6.69	2.15	-45.74	-13.00	32.74	H
3548.02	-57.86	5.80	8.27	2.15	-57.54	-13.00	44.54	V
4230.02	-57.49	6.26	9.13	2.15	-56.77	-13.00	43.77	H
4940.01	-57.24	6.71	9.84	2.15	-56.26	-13.00	43.26	H

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1443.01	-54.87	3.30	5.20	2.15	-55.12	-13.00	42.12	H
2157.00	-48.58	4.26	5.07	2.15	-49.92	-13.00	36.92	H
2862.00	-44.57	4.96	6.75	2.15	-44.93	-13.00	31.93	H
3563.02	-57.15	5.96	8.29	2.15	-56.97	-13.00	43.97	V
4284.02	-56.81	6.21	9.18	2.15	-55.99	-13.00	42.99	H
5019.01	-57.05	6.57	9.93	2.15	-55.84	-13.00	42.84	V

LTE Band 13, 5MHz, QPSK, Channel 23205

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.88	-67.52	3.47	5.39	0.00	-67.75	-40.00	27.75	H
2335.53	-49.28	4.44	5.61	2.15	-50.26	-13.00	37.26	H
3117.52	-58.36	5.38	7.28	2.15	-58.61	-13.00	45.61	V
3897.52	-59.02	6.11	8.76	2.15	-58.52	-13.00	45.52	H
4673.02	-58.45	6.48	9.57	2.15	-57.51	-13.00	44.51	H
5452.01	-57.92	6.88	10.53	2.15	-56.42	-13.00	43.42	H

LTE Band 13, 5MHz, QPSK, Channel 23230

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1567.26	-66.86	3.48	5.38	0.00	-67.11	-40.00	27.11	H
2344.62	-47.98	4.45	5.63	2.15	-48.95	-13.00	35.95	H
3124.52	-59.31	5.40	7.30	2.15	-59.56	-13.00	46.56	V
3911.52	-58.36	6.12	8.78	2.15	-57.85	-13.00	44.85	V
4696.52	-58.93	6.50	9.60	2.15	-57.98	-13.00	44.98	V
5478.01	-58.23	6.98	10.57	2.15	-56.79	-13.00	43.79	H

LTE Band 13, 5MHz, QPSK, Channel 23255

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1582.91	-66.52	3.50	5.35	0.00	-66.82	-40.00	26.82	H
2343.12	-46.54	4.45	5.63	2.15	-47.51	-13.00	34.51	H
3126.02	-59.08	5.40	7.30	2.15	-59.33	-13.00	46.33	V
3919.02	-58.33	6.12	8.79	2.15	-57.81	-13.00	44.81	V
4693.02	-58.46	6.50	9.59	2.15	-57.52	-13.00	44.52	V
5490.01	-56.94	7.02	10.59	2.15	-55.52	-13.00	42.52	H

LTE Band 25, 1.4MHz, QPSK, Channel 26047

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7352.01	-52.86	8.11	12.02	-48.95	-13.00	35.95	V
9254.01	-51.73	9.05	13.25	-47.53	-13.00	34.53	H
11212.01	-49.33	9.47	13.16	-45.64	-13.00	32.64	V
13423.01	-43.27	10.58	14.09	-39.76	-13.00	26.76	H
15136.00	-42.12	11.37	13.92	-39.57	-13.00	26.57	V
17343.00	-37.51	12.43	14.55	-35.39	-13.00	22.39	V

LTE Band 25, 1.4MHz, QPSK, Channel 26365

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7484.01	-53.79	8.35	12.18	-49.96	-13.00	36.96	H
9413.01	-53.15	9.10	13.35	-48.90	-13.00	35.90	H
11328.01	-49.27	10.01	13.13	-46.15	-13.00	33.15	H
13222.01	-44.41	10.52	13.81	-41.12	-13.00	28.12	H
15011.00	-42.87	11.23	13.99	-40.11	-13.00	27.11	H
16909.00	-40.19	12.03	13.76	-38.46	-13.00	25.46	H

LTE Band 25, 1.4MHz, QPSK, Channel 26683

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7637.01	-54.50	8.14	12.31	-50.33	-13.00	37.33	V
9574.01	-53.66	9.27	13.33	-49.60	-13.00	36.60	V
11523.01	-49.14	9.81	13.10	-45.85	-13.00	32.85	H
13418.01	-43.44	10.58	14.09	-39.93	-13.00	26.93	V
15315.00	-43.03	11.30	13.81	-40.52	-13.00	27.52	H
17222.00	-38.05	12.35	14.29	-36.11	-13.00	23.11	V

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

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1654.01	-53.48	3.57	5.22	2.15	-53.98	-13.00	40.98	H
2489.00	-46.62	4.61	6.07	2.15	-47.31	-13.00	34.31	H
3296.02	-61.27	5.29	7.71	2.15	-61.00	-13.00	48.00	H
4125.02	-56.11	6.04	9.03	2.15	-55.27	-13.00	42.27	V
4950.01	-57.56	6.69	9.85	2.15	-56.55	-13.00	43.55	H
5782.01	-56.51	7.22	10.54	2.15	-55.34	-13.00	42.34	H

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

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1654.01	-54.73	3.57	5.22	2.15	-55.23	-13.00	42.23	H
2526.00	-46.25	4.65	6.15	2.15	-46.90	-13.00	33.90	H
3343.02	-60.83	5.31	7.82	2.15	-60.47	-13.00	47.47	V
4181.02	-56.68	6.16	9.08	2.15	-55.91	-13.00	42.91	H
5031.01	-56.77	6.58	9.94	2.15	-55.56	-13.00	42.56	H
5847.01	-56.50	7.23	10.53	2.15	-55.35	-13.00	42.35	V

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

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1695.01	-54.68	3.60	5.15	2.15	-55.28	-13.00	42.28	V
2559.00	-45.04	4.67	6.21	2.15	-45.65	-13.00	32.65	H
3381.02	-61.18	5.35	7.91	2.15	-60.77	-13.00	47.77	H
4226.02	-57.50	6.26	9.13	2.15	-56.78	-13.00	43.78	V
5082.01	-56.62	6.72	10.01	2.15	-55.48	-13.00	42.48	V
5926.01	-56.48	7.47	10.51	2.15	-55.59	-13.00	42.59	V

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

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1628.01	-52.69	3.55	5.27	2.15	-53.12	-13.00	40.12	H
2458.00	-47.73	4.58	5.97	2.15	-48.49	-13.00	35.49	H
7332.01	-51.47	8.10	12.00	2.15	-49.72	-13.00	36.72	V
8155.01	-51.94	8.42	12.72	2.15	-49.79	-13.00	36.79	V
8951.00	-50.81	9.03	13.09	2.15	-48.90	-13.00	35.90	V
9776.00	-51.02	8.98	13.12	2.15	-49.03	-13.00	36.03	V

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

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1637.01	-53.61	3.56	5.25	2.15	-54.07	-13.00	41.07	H
2452.00	-47.05	4.57	5.96	2.15	-47.81	-13.00	34.81	V
3267.02	-60.58	5.28	7.64	2.15	-60.37	-13.00	47.37	V
4082.02	-57.11	6.04	8.98	2.15	-56.32	-13.00	43.32	H
4912.01	-57.13	6.73	9.81	2.15	-56.20	-13.00	43.20	V
5722.01	-56.18	7.30	10.56	2.15	-55.07	-13.00	42.07	H

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

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2652.00	-44.90	4.74	6.37	2.15	-45.42	-13.00	32.42	H
6768.01	-52.35	7.94	11.32	2.15	-51.12	-13.00	38.12	V
7307.01	-51.51	8.10	11.97	2.15	-49.79	-13.00	36.79	H
8209.01	-51.22	8.53	12.77	2.15	-49.13	-13.00	36.13	V
9227.00	-49.98	8.99	13.24	2.15	-47.88	-13.00	34.88	H
9900.00	-50.69	9.09	13.00	2.15	-48.93	-13.00	35.93	V

LTE Band 41, 5MHz, QPSK, Channel 39675

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5000.02	-59.83	6.60	9.90	-56.53	-25.00	31.53	H
7493.01	-54.32	8.37	12.19	-50.50	-25.00	25.50	H
9993.01	-53.25	9.17	12.91	-49.51	-25.00	24.51	H
12489.01	-49.09	10.20	13.20	-46.09	-25.00	21.09	H
14990.00	-43.71	11.21	14.01	-40.91	-25.00	15.91	V
17492.00	-39.45	12.71	14.88	-37.28	-25.00	12.28	H

LTE Band 41, 5MHz, QPSK, Channel 40620

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2594.00	13.12	4.70	6.27	14.69	-25.00	-39.69	V
3863.02	-60.69	6.09	8.71	-58.07	-25.00	33.07	H
5170.02	-59.07	6.91	10.14	-55.84	-25.00	30.84	V
6489.02	-57.17	7.52	10.99	-53.70	-25.00	28.70	V
7767.01	-54.87	8.33	12.41	-50.79	-25.00	25.79	V
9049.01	-53.19	9.07	13.13	-49.13	-25.00	24.13	H

LTE Band 41, 5MHz, QPSK, Channel 41565

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2688.00	18.09	4.78	6.44	19.75	-25.00	-44.75	V
4050.02	-60.55	6.04	8.95	-57.64	-25.00	32.64	H
5386.02	-60.44	6.86	10.44	-56.86	-25.00	31.86	V
6711.02	-54.28	7.98	11.25	-51.01	-25.00	26.01	H
8084.01	-54.32	8.32	12.67	-49.97	-25.00	24.97	H
9383.01	-53.24	9.05	13.33	-48.96	-25.00	23.96	H

LTE Band 41C, QPSK, Channel 39703+39823

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5037.02	-59.25	6.59	9.95	-55.89	-25.00	30.89	H
7533.01	-54.69	8.26	12.23	-50.72	-25.00	25.72	V
10081.01	-51.87	9.41	12.93	-48.35	-25.00	23.35	V
12566.01	-48.19	10.37	13.24	-45.32	-25.00	20.32	V
15088.00	-42.59	11.33	13.95	-39.97	-25.00	14.97	H
17592.00	-38.63	13.08	15.03	-36.68	-25.00	11.68	H

LTE Band 41C, QPSK, Channel 40549+40669

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5157.02	-58.88	6.89	10.12	-55.65	-25.00	30.65	V
7765.01	-53.91	8.34	12.41	-49.84	-25.00	24.84	H
10391.01	-52.13	9.79	13.06	-48.86	-25.00	23.86	H
12949.01	-46.74	10.49	13.47	-43.76	-25.00	18.76	H
15539.00	-42.99	11.51	13.70	-40.80	-25.00	15.80	H
16878.00	-39.77	12.02	13.75	-38.04	-25.00	13.04	H

LTE Band 41C, QPSK, Channel 41395+41515

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5375.02	-60.42	6.88	10.43	-56.87	-25.00	31.87	V
8065.01	-54.74	8.32	12.65	-50.41	-25.00	25.41	H
10718.01	-51.70	9.35	13.14	-47.91	-25.00	22.91	H
13403.01	-43.25	10.57	14.06	-39.76	-25.00	14.76	V
16102.00	-41.74	11.85	13.68	-39.91	-25.00	14.91	V
17397.00	-38.69	12.50	14.67	-36.52	-25.00	11.52	H

LTE Band 66, 1.4MHz, QPSK, Channel 131979

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3473.02	-71.81	5.47	8.14	-69.14	-13.00	56.14	H
5102.02	-68.73	6.78	10.04	-65.47	-13.00	52.47	V
6863.01	-64.79	7.81	11.44	-61.16	-13.00	48.16	V
8557.01	-64.15	8.57	13.01	-59.71	-13.00	46.71	V
10297.01	-61.94	9.63	13.02	-58.55	-13.00	45.55	V
11979.01	-59.10	10.15	13.00	-56.25	-13.00	43.25	V

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.02	-69.93	5.50	8.18	-67.25	-13.00	54.25	H
5191.02	-69.93	6.95	10.17	-66.71	-13.00	53.71	H
7002.01	-64.41	8.30	11.60	-61.11	-13.00	48.11	V
8725.01	-63.45	8.43	13.05	-58.83	-13.00	45.83	H
10468.01	-62.00	9.70	13.09	-58.61	-13.00	45.61	V
12215.01	-59.32	10.05	13.09	-56.28	-13.00	43.28	H

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3559.02	-66.18	5.92	8.28	-63.82	-13.00	50.82	V
5338.02	-70.25	6.96	10.37	-66.84	-13.00	53.84	H
7161.01	-64.87	8.18	11.79	-61.26	-13.00	48.26	V
8897.01	-63.39	8.84	13.08	-59.15	-13.00	46.15	H
10660.01	-60.99	9.30	13.13	-57.16	-13.00	44.16	V
12509.01	-58.85	10.20	13.21	-55.84	-13.00	42.84	H

LTE Band 66B, QPSK, Channel 131997+132045

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3470.02	-71.90	5.47	8.13	-69.24	-13.00	56.24	H
5106.02	-69.00	6.79	10.05	-65.74	-13.00	52.74	V
6849.01	-64.91	7.83	11.42	-61.32	-13.00	48.32	V
8573.01	-64.36	8.54	13.01	-59.89	-13.00	46.89	H
10303.01	-62.32	9.65	13.02	-58.95	-13.00	45.95	V
12003.01	-58.30	10.06	13.00	-55.36	-13.00	42.36	H

LTE Band 66B, QPSK, Channel 132398+132446

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3556.02	-69.79	5.88	8.28	-67.39	-13.00	54.39	V
5263.02	-69.28	6.99	10.27	-66.00	-13.00	53.00	H
6996.01	-64.70	8.27	11.60	-61.37	-13.00	48.37	V
8750.01	-64.39	8.51	13.05	-59.85	-13.00	46.85	V
10580.01	-62.49	9.35	13.12	-58.72	-13.00	45.72	H
12284.01	-59.59	10.01	13.11	-56.49	-13.00	43.49	H

LTE Band 66B, QPSK, Channel 132599+132647

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3550.02	-67.46	5.82	8.27	-65.01	-13.00	52.01	H
5324.02	-70.10	6.99	10.35	-66.74	-13.00	53.74	H
7153.01	-65.30	8.18	11.78	-61.70	-13.00	48.70	V
8875.01	-63.85	8.80	13.08	-59.57	-13.00	46.57	H
10650.01	-61.41	9.29	13.13	-57.57	-13.00	44.57	V
12420.01	-59.07	10.39	13.17	-56.29	-13.00	43.29	H

LTE Band 66C, QPSK, Channel 132025+132145

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3464.02	-71.90	5.45	8.11	-69.24	-13.00	56.24	H
5103.02	-68.74	6.78	10.04	-65.48	-13.00	52.48	V
6851.01	-64.83	7.82	11.42	-61.23	-13.00	48.23	V
8615.01	-64.57	8.47	13.02	-60.02	-13.00	47.02	V
10299.01	-62.15	9.64	13.02	-58.77	-13.00	45.77	V
12000.01	-59.51	10.05	13.00	-56.56	-13.00	43.56	V

LTE Band 66C, QPSK, Channel 132351+132471

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3544.02	-70.13	5.76	8.26	-67.63	-13.00	54.63	V
5181.02	-69.90	6.93	10.15	-66.68	-13.00	53.68	H
7001.01	-64.47	8.30	11.60	-61.17	-13.00	48.17	V
8752.01	-64.28	8.52	13.05	-59.75	-13.00	46.75	V
10517.01	-62.29	9.59	13.10	-58.78	-13.00	45.78	H
12227.01	-59.63	10.04	13.09	-56.58	-13.00	43.58	H

LTE Band 66C, QPSK, Channel 132477+132597

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3554.02	-69.55	5.86	8.28	-67.13	-13.00	54.13	V
5278.02	-70.24	6.99	10.29	-66.94	-13.00	53.94	V
7152.01	-65.21	8.18	11.78	-61.61	-13.00	48.61	V
8919.01	-64.25	8.91	13.08	-60.08	-13.00	47.08	V
10655.01	-61.26	9.29	13.13	-57.42	-13.00	44.42	V
12410.01	-58.95	10.41	13.16	-56.20	-13.00	43.20	H

LTE Band 71, 5MHz, QPSK, Channel 133147

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1305.01	-54.27	3.12	4.49	2.15	-55.05	-13.00	42.05	H
1995.01	-49.79	4.04	4.61	2.15	-51.37	-13.00	38.37	H
2675.00	-44.16	4.76	6.42	2.15	-44.65	-13.00	31.65	H
3340.02	-60.36	5.31	7.82	2.15	-60.00	-13.00	47.00	V
4020.02	-57.84	6.05	8.92	2.15	-57.12	-13.00	44.12	H
4654.02	-58.18	6.47	9.55	2.15	-57.25	-13.00	44.25	V

LTE Band 71, 5MHz, QPSK, Channel 133297

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1351.01	-56.05	3.18	4.73	2.15	-56.65	-13.00	43.65	H
2029.00	-51.11	4.13	4.69	2.15	-52.70	-13.00	39.70	H
2733.00	-45.16	4.82	6.52	2.15	-45.61	-13.00	32.61	H
3415.02	-61.55	5.38	8.00	2.15	-61.08	-13.00	48.08	V
4095.02	-57.18	6.04	9.00	2.15	-56.37	-13.00	43.37	V
4760.01	-58.35	6.59	9.66	2.15	-57.43	-13.00	44.43	V

LTE Band 71, 5MHz, QPSK, Channel 133447

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1397.01	-55.37	3.23	4.96	2.15	-55.79	-13.00	42.79	H
2105.00	-50.10	4.20	4.92	2.15	-51.53	-13.00	38.53	V
2764.00	-45.26	4.86	6.58	2.15	-45.69	-13.00	32.69	H
3455.02	-59.28	5.44	8.09	2.15	-58.78	-13.00	45.78	H
4170.02	-56.54	6.14	9.07	2.15	-55.76	-13.00	42.76	V
4882.01	-55.76	6.72	9.78	2.15	-54.85	-13.00	41.85	V

Second source:
LTE Band 7, 5 MHz, QPSK, Channel 20775

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4988.02	-59.19	6.62	9.89	-55.92	-25.00	30.92	H
7492.01	-53.82	8.37	12.19	-50.00	-25.00	25.00	V
10011.01	-52.79	9.21	12.90	-49.10	-25.00	24.10	H
12496.01	-48.72	10.18	13.20	-45.70	-25.00	20.70	V
15004.00	-43.21	11.22	14.00	-40.43	-25.00	15.43	H
17516.00	-40.03	12.79	14.92	-37.90	-25.00	12.90	H

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5083.02	-59.16	6.72	10.02	-55.86	-25.00	30.86	V
7597.01	-53.94	7.99	12.28	-49.65	-25.00	24.65	V
10141.01	-51.13	9.40	12.96	-47.57	-25.00	22.57	H
12660.01	-48.17	10.37	13.30	-45.24	-25.00	20.24	H
15203.00	-44.55	11.40	13.88	-42.07	-25.00	17.07	H
17739.00	-41.26	12.40	15.23	-38.43	-25.00	13.43	H

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5134.02	-59.63	6.86	10.09	-56.40	-25.00	31.40	V
7711.01	-55.57	8.41	12.37	-51.61	-25.00	26.61	V
10262.01	-51.63	9.51	13.00	-48.14	-25.00	23.14	V
12846.01	-47.35	10.65	13.41	-44.59	-25.00	19.59	V
15405.00	-44.16	11.40	13.76	-41.80	-25.00	16.80	H
17976.00	-40.89	12.90	15.57	-38.22	-25.00	13.22	V

LTE Band 41, 5MHz, QPSK, Channel 39675

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4997.02	-59.41	6.61	9.90	-56.12	-25.00	31.12	H
7491.01	-53.98	8.37	12.19	-50.16	-25.00	25.16	V
9989.01	-54.24	9.17	12.91	-50.50	-25.00	25.50	V
12489.01	-49.21	10.20	13.20	-46.21	-25.00	21.21	V
14995.00	-42.82	11.21	14.00	-40.03	-25.00	15.03	H
17490.00	-40.25	12.70	14.88	-38.07	-25.00	13.07	H

LTE Band 41, 5MHz, QPSK, Channel 40620

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5168.02	-60.30	6.91	10.14	-57.07	-25.00	32.07	V
7760.01	-54.37	8.34	12.41	-50.30	-25.00	25.30	V
10381.01	-50.13	9.77	13.05	-46.85	-25.00	21.85	V
12983.01	-48.06	10.47	13.49	-45.04	-25.00	20.04	V
15550.00	-44.43	11.51	13.70	-42.24	-25.00	17.24	H
16866.00	-39.77	12.04	13.75	-38.06	-25.00	13.06	H

LTE Band 41, 5MHz, QPSK, Channel 41565

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5391.02	-59.94	6.85	10.45	-56.34	-25.00	31.34	H
8066.01	-54.37	8.32	12.65	-50.04	-25.00	25.04	V
10751.01	-50.15	9.43	13.15	-46.43	-25.00	21.43	V
13442.01	-43.86	10.60	14.12	-40.34	-25.00	15.34	H
16110.00	-42.34	11.84	13.68	-40.50	-25.00	15.50	H
17455.00	-39.53	12.62	14.80	-37.35	-25.00	12.35	H

Sample: 3554.02 MHz

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

Power (-67.13dBm) = P_{Mea} (-69.55dBm) - P_{pl} (5.86dB) + G_a (8.28dBi)

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 2, 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	3.8	1850.833	1909.199		
50				-0.69	0.0004
40				-1.14	0.0006
30				-0.17	0.0001
10				-2.16	0.0011
0				-0.86	0.0005
-10				-1.46	0.0008
-20				-0.53	0.0003
-30				-1.07	0.0006

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	1850.833	1909.199	-2.00	0.0011
4.45				-0.83	0.0004

LTE Band 4, 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	3.8	1710.833	1754.231		
50				0.13	0.0001
40				0.11	0.0001
30				-0.69	0.0004
10				-1.07	0.0006
0				0.34	0.0002
-10				0.01	0.0000
-20				-0.80	0.0005
-30				0.20	0.0001

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	1710.833	1754.231	0.51	0.0003
4.45				-0.46	0.0003

LTE Band 5, 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	3.8	824.433	848.583		
50				-4.99	0.0060
40				-0.51	0.0006
30				0.01	0.0000
10				-0.20	0.0002
0				0.34	0.0004
-10				0.62	0.0007
-20				-0.13	0.0002
-30				-0.49	0.0006

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	824.433	848.583	-4.75	0.0057
4.45				-6.04	0.0072

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	3.8	2500.929	2569.135		
50				0.29	0.0001
40				-1.86	0.0007
30				0.25	0.0001
10				1.76	0.0007
0				-0.67	0.0003
-10				-0.62	0.0002
-20				0.01	0.0000
-30				1.39	0.0005

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	2500.929	2569.135	1.13	0.0004
4.45				1.29	0.0005

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	3.8	699.465	715.519		
50				0.06	0.0001
40				-0.48	0.0007
30				0.76	0.0011
10				-6.29	0.0089
0				-1.48	0.0021
-10				-6.89	0.0097
-20				-5.94	0.0084
-30				0.36	0.0005

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	699.465	715.519	0.06	0.0001
4.45				-0.42	0.0006

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	3.8	777.465	786.535		
50				-0.85	0.0011
40				0.82	0.0010
30				0.18	0.0002
10				-6.59	0.0084
0				-6.27	0.0080
-10				0.03	0.0000
-20				-0.48	0.0006
-30				-1.42	0.0018

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	777.465	786.535	-0.58	0.0007
4.45				0.85	0.0011

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	3.8	1850.833	1914.199		
50				-10.61	0.0056
40				-12.17	0.0065
30				-2.30	0.0012
10				-11.07	0.0059
0				-10.37	0.0055
-10				-10.11	0.0054
-20				-11.65	0.0062
-30				-2.50	0.0013

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	1850.833	1914.199	-11.71	0.0062
4.45				-10.60	0.0056

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	3.8	814.380	823.611		
50				1.39	0.0017
40				-5.75	0.0070
30				-5.41	0.0066
10				0.31	0.0004
0				-0.66	0.0008
-10				-0.93	0.0011
-20				-1.06	0.0013
-30				0.50	0.0006

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	814.380	823.611	-1.01	0.0012
4.45				0.47	0.0006

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	3.8	824.601	848.471		
50				-6.27	0.0075
40				-6.25	0.0075
30				-4.82	0.0058
10				-6.60	0.0079
0				-6.95	0.0083
-10				-6.75	0.0081
-20				-6.40	0.0077
-30				-5.63	0.0067

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	824.601	848.471	-0.06	0.0001
4.45				-5.44	0.0065

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	3.8	2496.353	2689.583		
50				0.39	0.0002
40				0.24	0.0001
30				-0.43	0.0002
10				1.33	0.0005
0				2.20	0.0008
-10				1.80	0.0007
-20				0.53	0.0002
-30				-0.57	0.0002

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	2496.353	2689.583	-0.36	0.0001
4.45				0.36	0.0001

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	3.8	1710.833	1779.231		
50				-1.65	0.0009
40				-1.09	0.0006
30				-1.61	0.0009
10				-0.42	0.0002
0				-0.16	0.0001
-10				-0.94	0.0005
-20				-0.54	0.0003
-30				-1.41	0.0008

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	1710.833	1779.231	6.72	0.0039
4.45				-1.84	0.0011

LTE Band 71, 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	3.8	663.994	697.006		
50				1.78	0.0026
40				0.96	0.0014
30				0.74	0.0011
10				2.23	0.0033
0				1.23	0.0018
-10				1.52	0.0022
-20				1.26	0.0019
-30				2.12	0.0031

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	663.994	697.006	1.00	0.0015
4.45				1.14	0.0017

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	3.8	2496.880	2689.100		
50				8.22	0.0032
40				8.85	0.0034
30				9.23	0.0036
10				8.28	0.0032
0				9.38	0.0036
-10				8.63	0.0033
-20				10.10	0.0039
-30				8.52	0.0033

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	2496.880	2689.100	10.85	0.0042
4.45				9.93	0.0038

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	3.8	1710.300	1779.707		
50				0.85	0.0005
40				0.83	0.0005
30				0.76	0.0004
10				0.27	0.0002
0				0.88	0.0005
-10				0.48	0.0003
-20				0.85	0.0005
-30				0.87	0.0005

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	1710.300	1779.707	1.48	0.0009
4.45				1.25	0.0007

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	3.8	1710.486	1779.521		
50				-7.02	0.0040
40				-5.80	0.0033
30				-7.29	0.0042
10				-5.87	0.0034
0				-5.84	0.0033
-10				-5.78	0.0033
-20				-5.02	0.0029
-30				-5.59	0.0032

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	1710.486	1779.521	-4.47	0.0026
4.45				-5.15	0.0030

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.

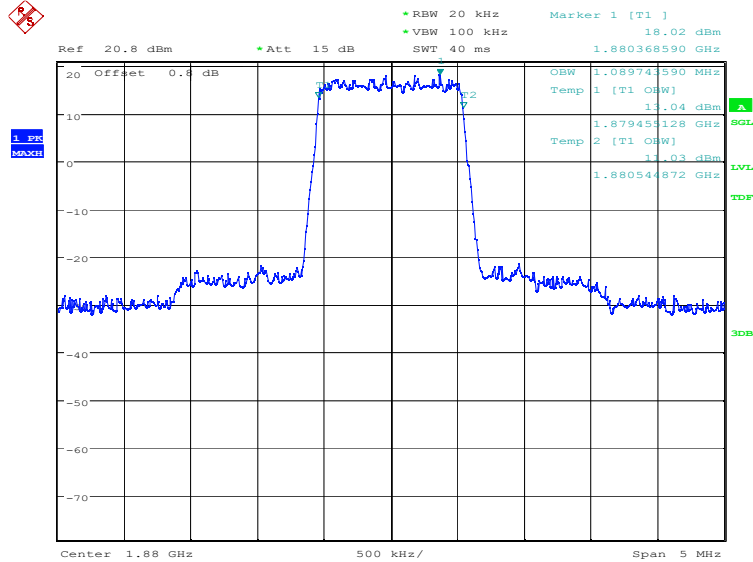
The measurement method is from ANSI C63.26:

- 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 2, 1.4MHz (99%)

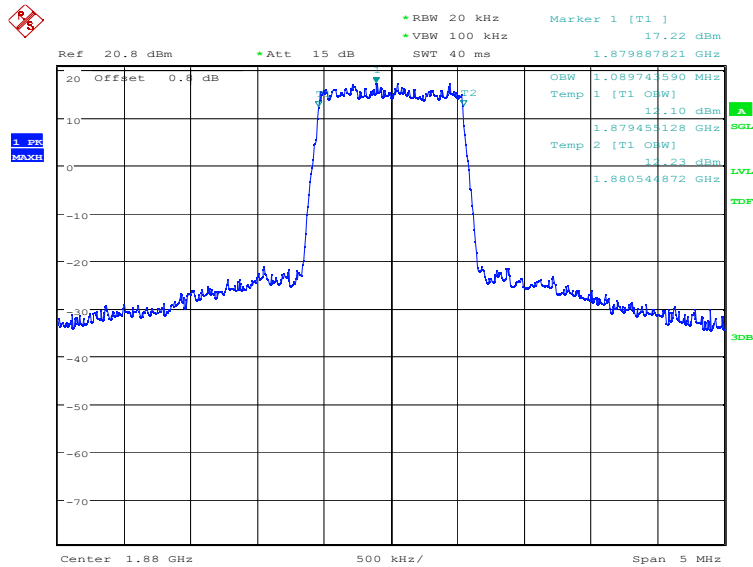
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	1089.74	1089.74

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



Date: 7.APR.2022 11:22:03

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

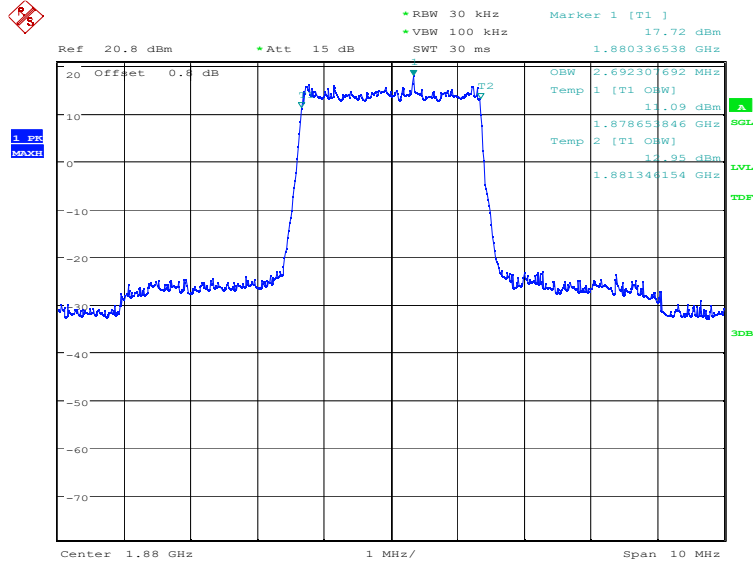


Date: 7.APR.2022 11:22:42

LTE band 2, 3MHz (99%)

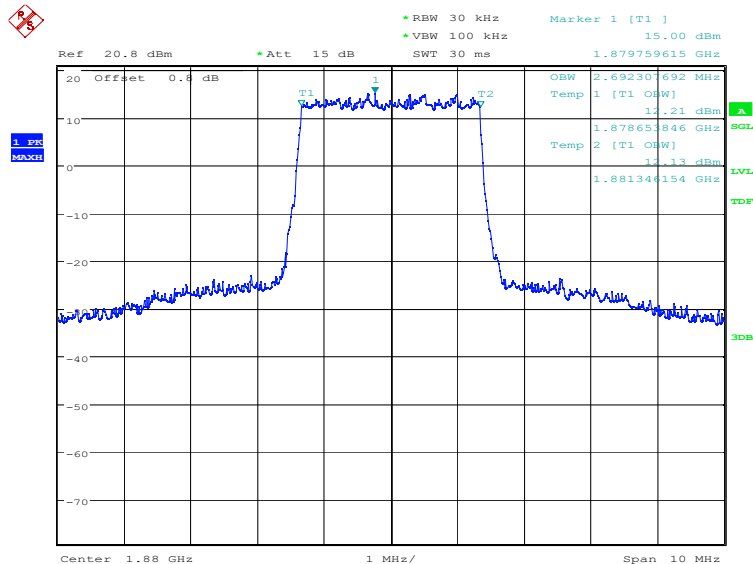
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 7.APR.2022 11:23:26

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

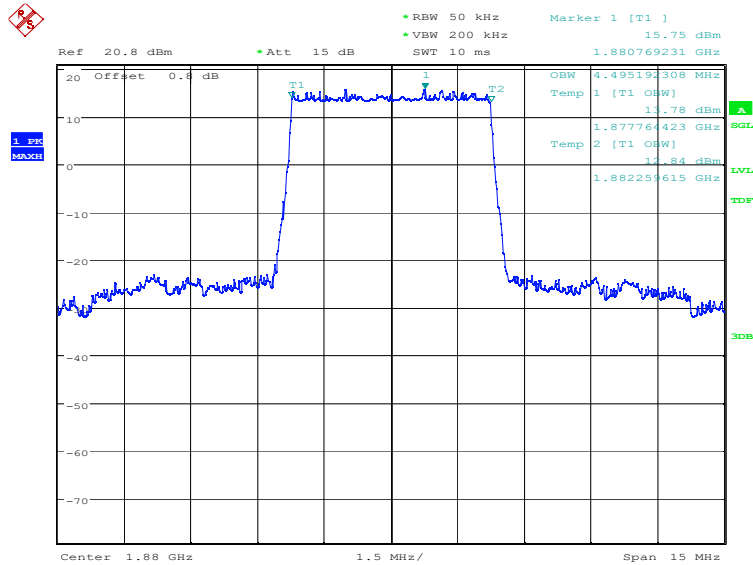


Date: 7.APR.2022 11:24:06

LTE band 2, 5MHz (99%)

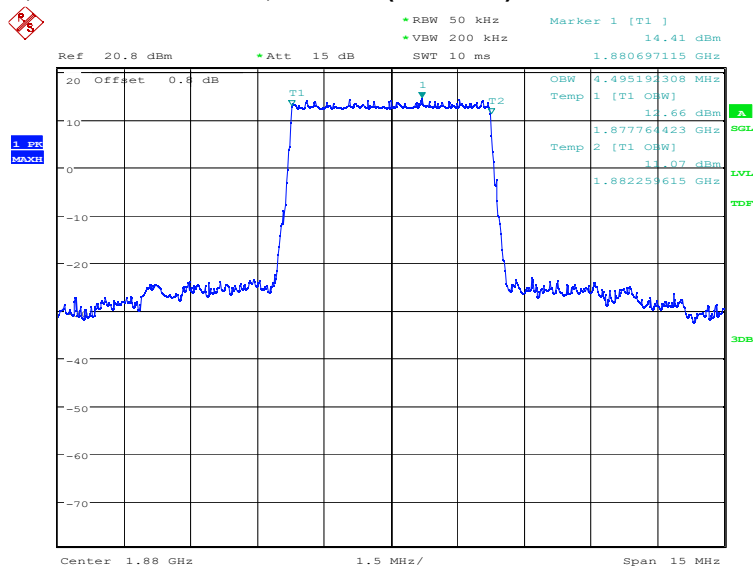
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 7.APR.2022 11:24:50

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

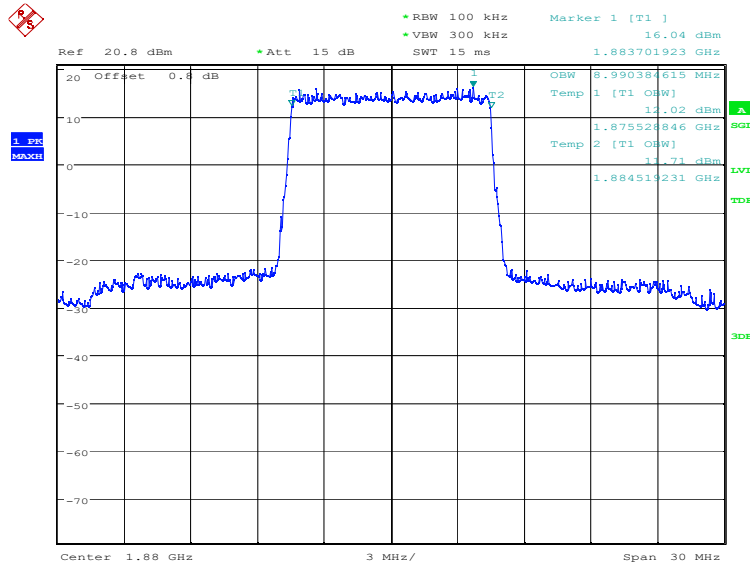


Date: 7.APR.2022 11:25:29

LTE band 2, 10MHz (99%)

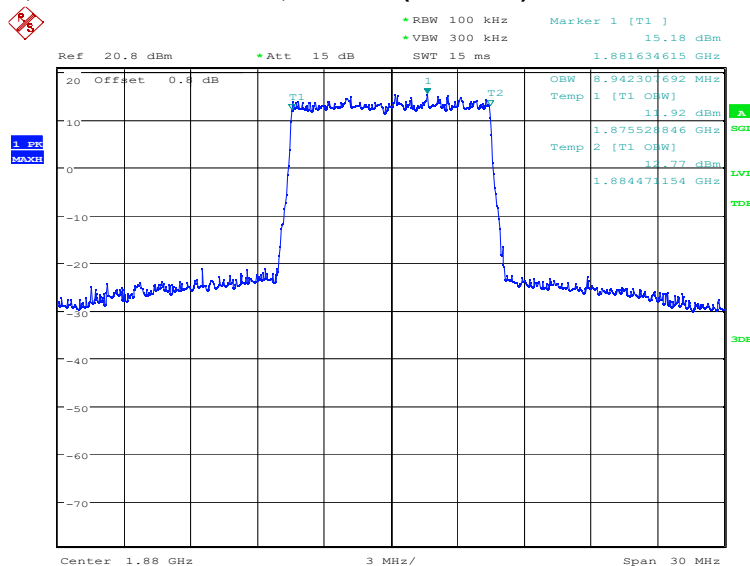
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	8990.38	8942.31

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



Date: 7.APR.2022 11:26:13

LTE band 2, 10MHz Bandwidth, 16QAM (99% BW)

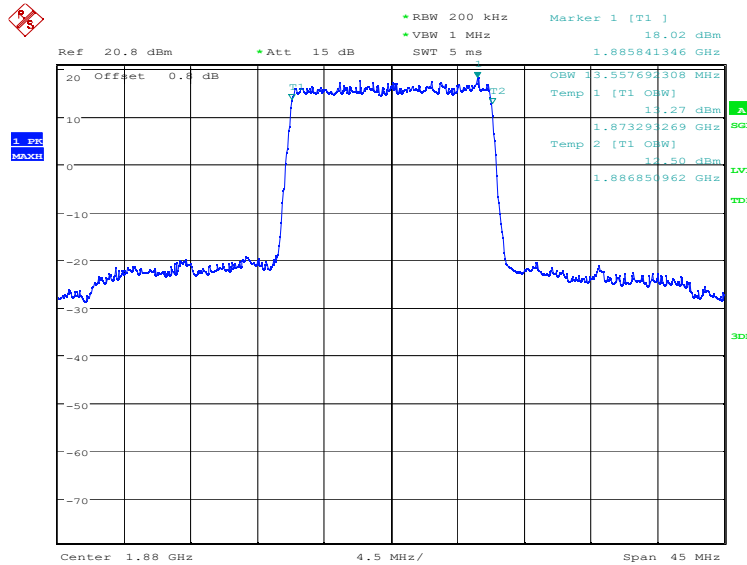


Date: 7.APR.2022 11:26:52

LTE band 2, 15MHz (99%)

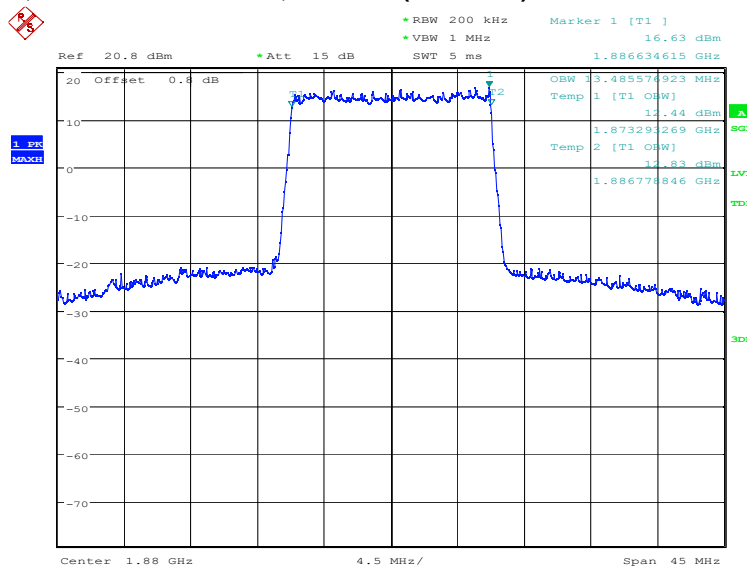
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	13557.69	13485.58

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



Date: 7.APR.2022 11:27:36

LTE band 2, 15MHz Bandwidth, 16QAM (99% BW)

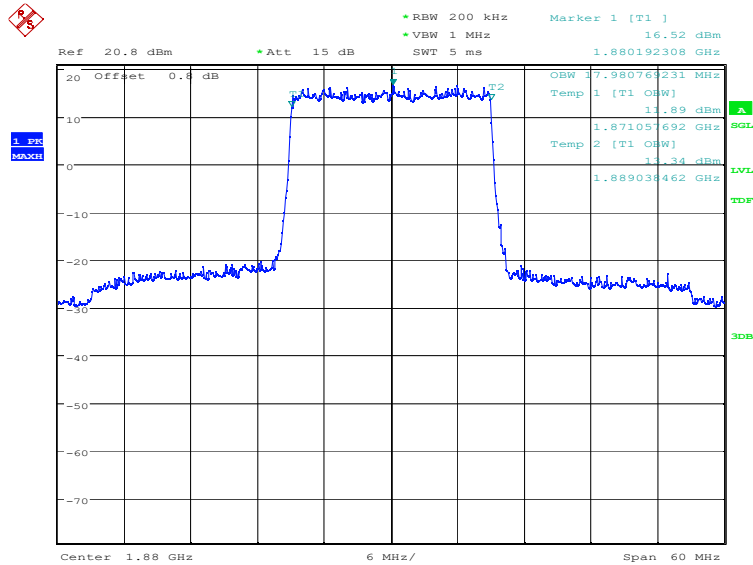


Date: 7.APR.2022 11:28:16

LTE band 2, 20MHz (99%)

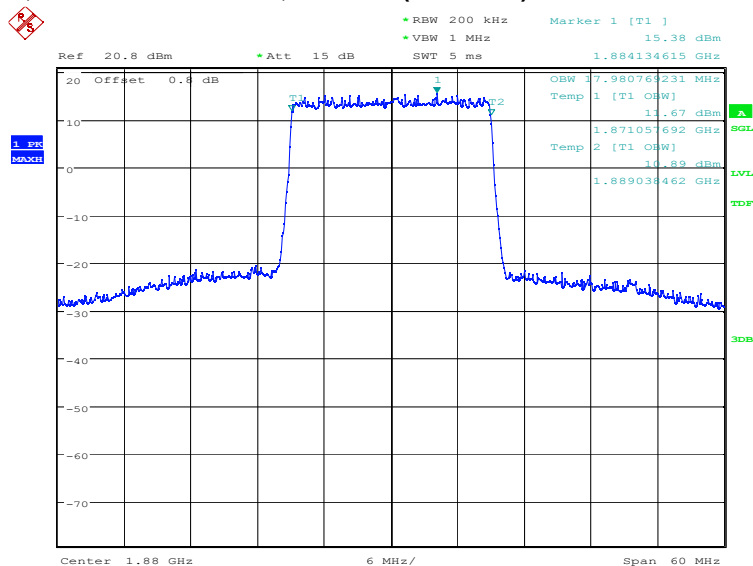
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	17980.77	17980.77

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



Date: 7.APR.2022 11:29:00

LTE band 2, 20MHz Bandwidth, 16QAM (99% BW)

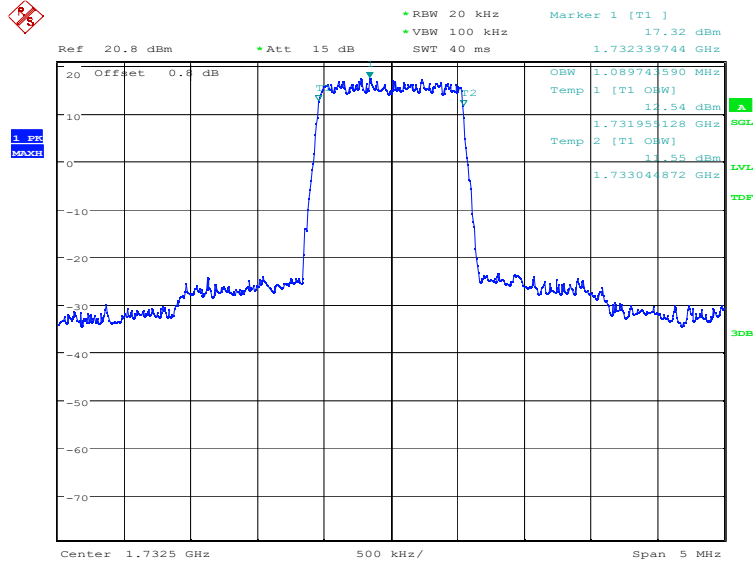


Date: 7.APR.2022 11:29:39

LTE band 4, 1.4MHz (99%)

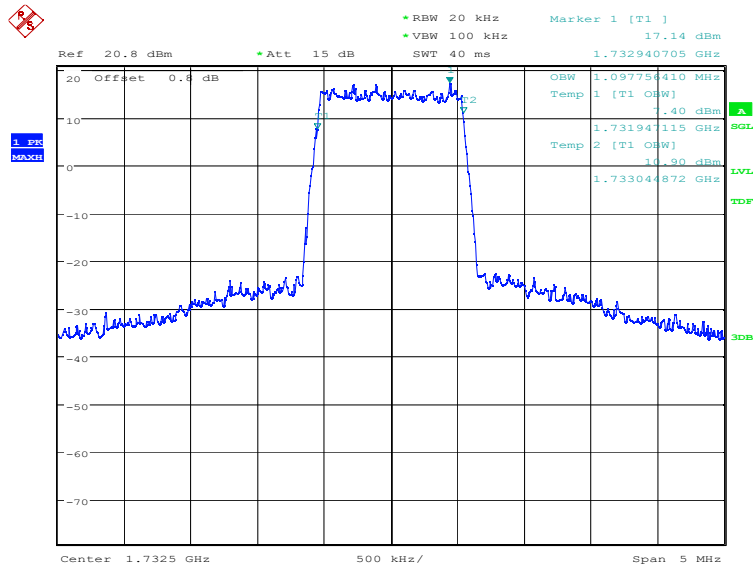
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	1089.74	1097.76

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



Date: 7.APR.2022 11:30:26

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

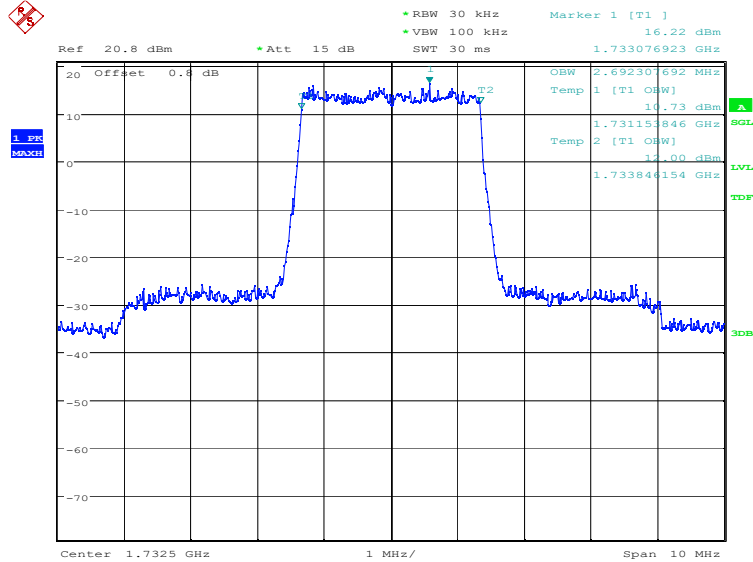


Date: 7.APR.2022 11:31:05

LTE band 4, 3MHz (99%)

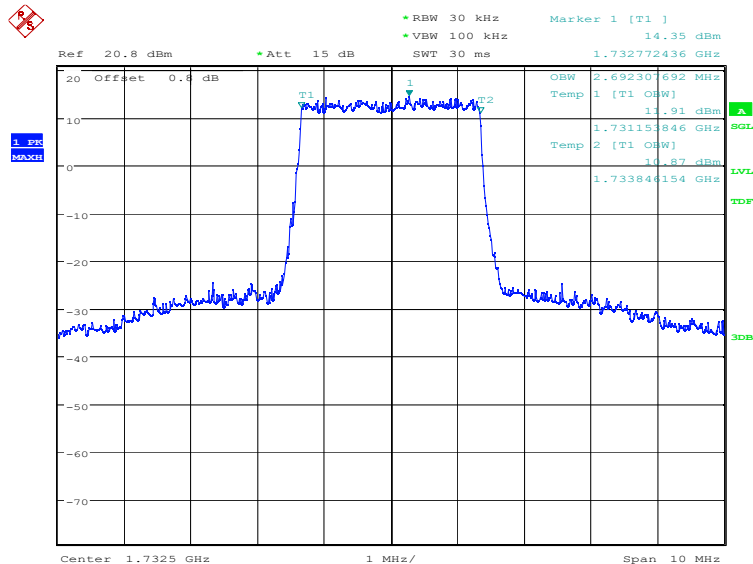
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 7.APR.2022 11:31:49

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

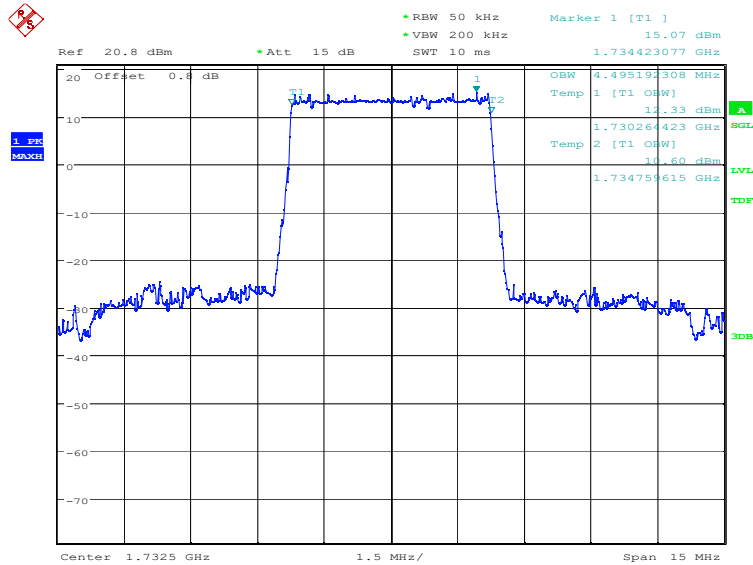


Date: 7.APR.2022 11:32:28

LTE band 4, 5MHz (99%)

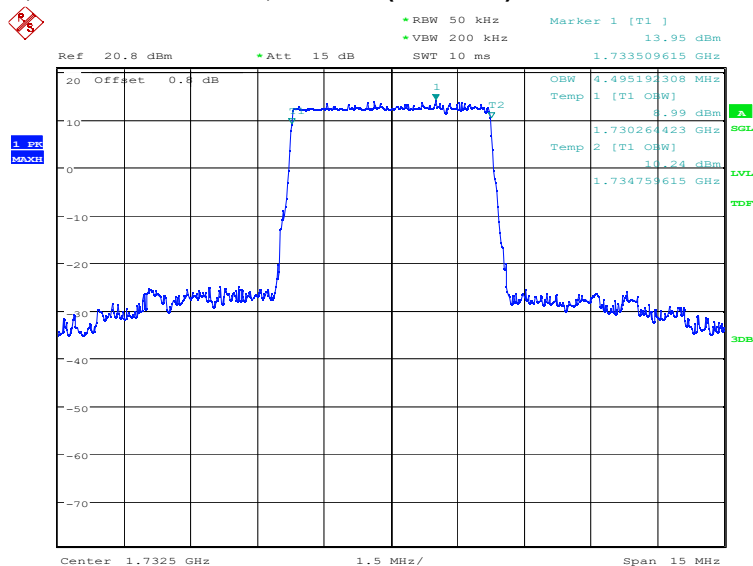
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	4495.19	4495.19

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



Date: 7.APR.2022 11:33:12

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

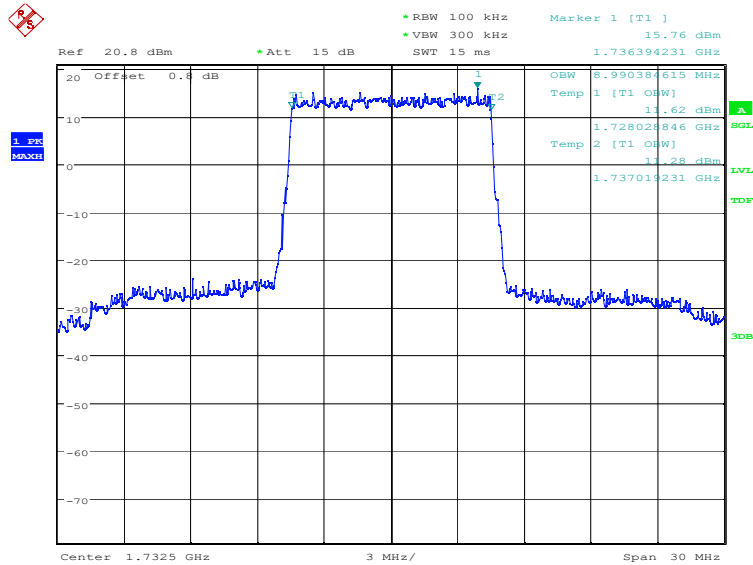


Date: 7.APR.2022 11:33:51

LTE band 4, 10MHz (99%)

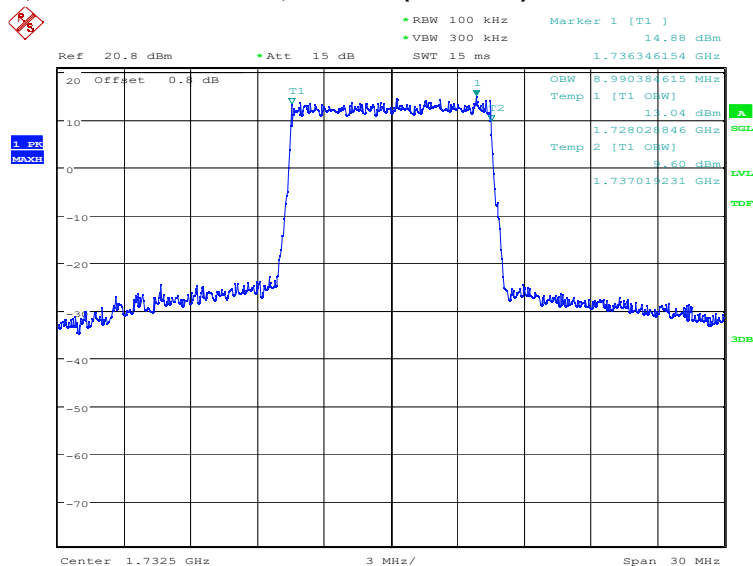
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	8990.38	8990.38

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



Date: 7.APR.2022 11:34:35

LTE band 4, 10MHz Bandwidth, 16QAM (99% BW)

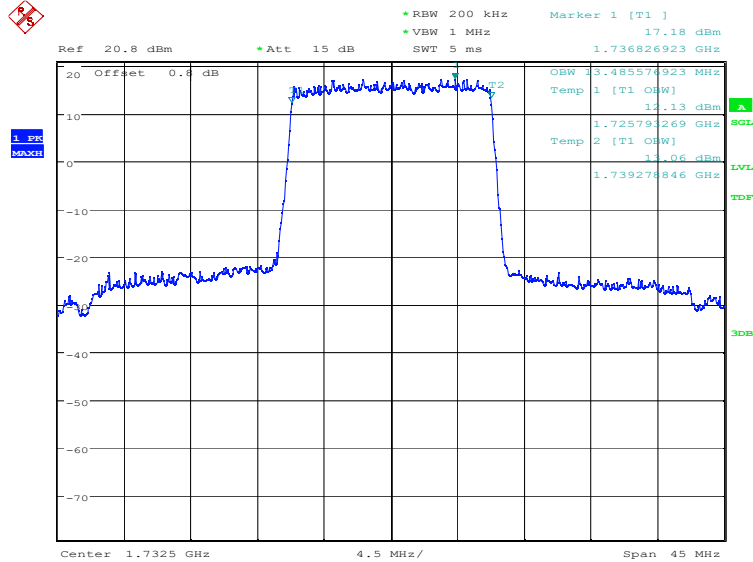


Date: 7.APR.2022 11:35:14

LTE band 4, 15MHz (99%)

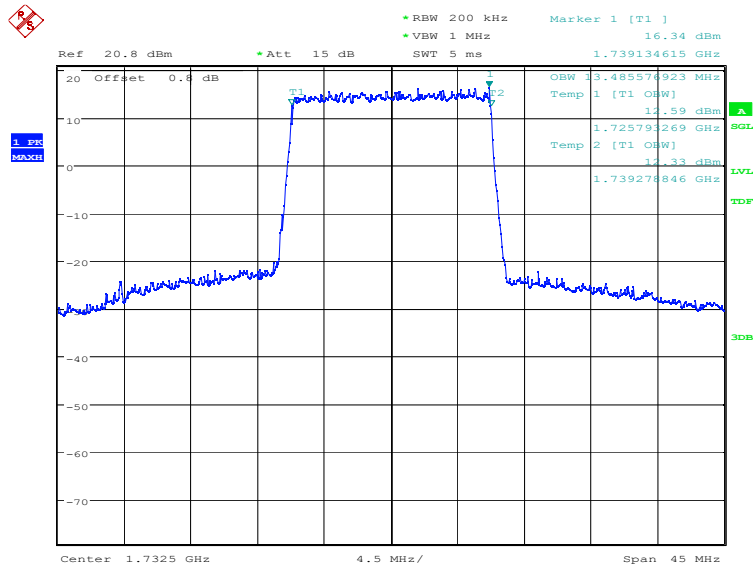
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 7.APR.2022 11:35:58

LTE band 4, 15MHz Bandwidth, 16QAM (99% BW)

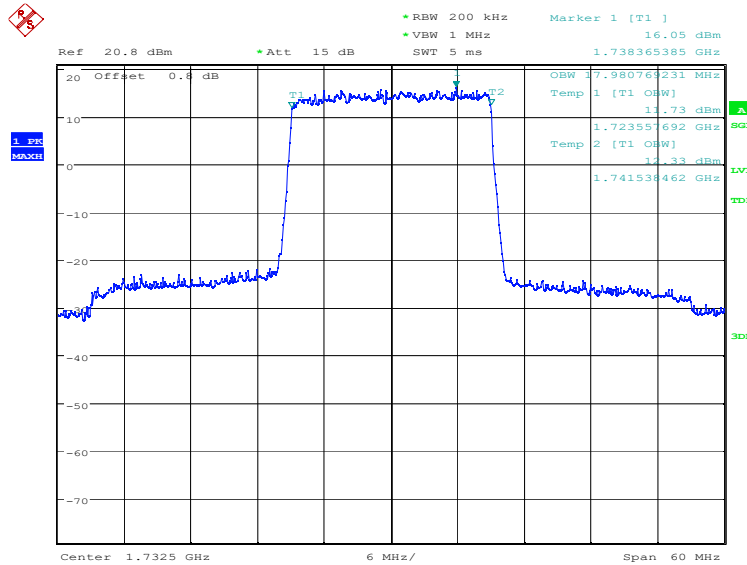


Date: 7.APR.2022 11:36:37

LTE band 4, 20MHz (99%)

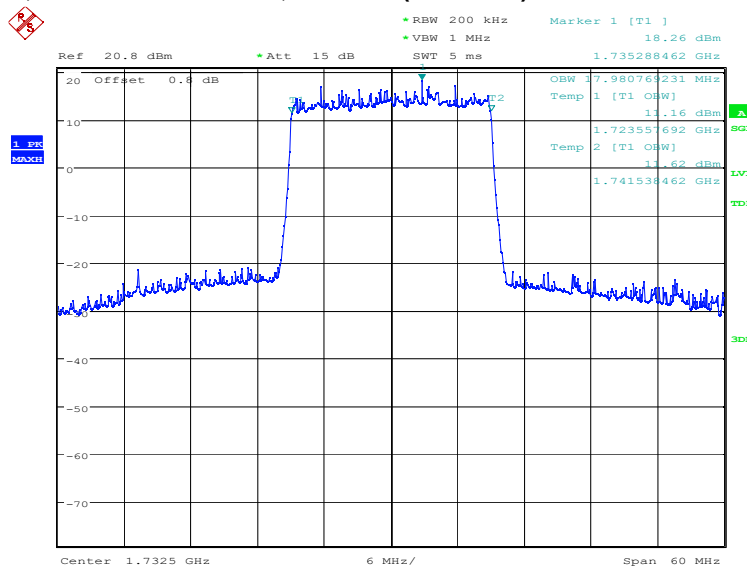
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	17980.77	17980.77

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



Date: 7.APR.2022 11:37:21

LTE band 4, 20MHz Bandwidth, 16QAM (99% BW)

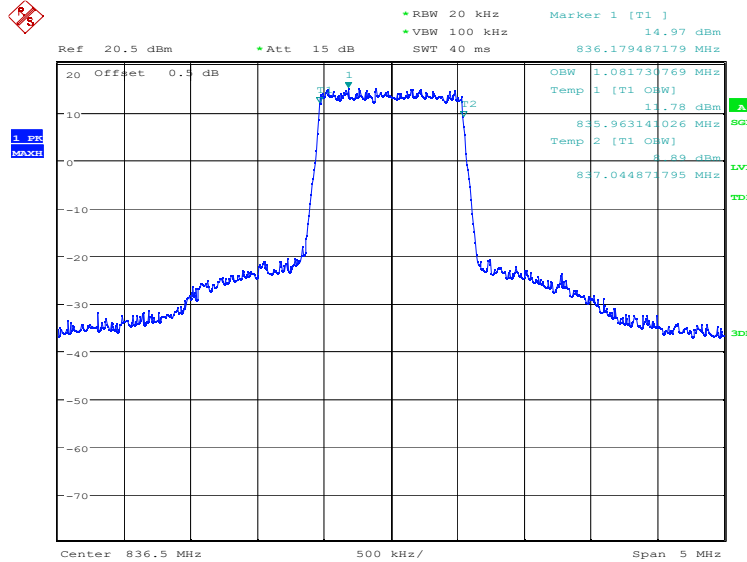


Date: 7.APR.2022 11:37:59

LTE band 5, 1.4MHz (99%)

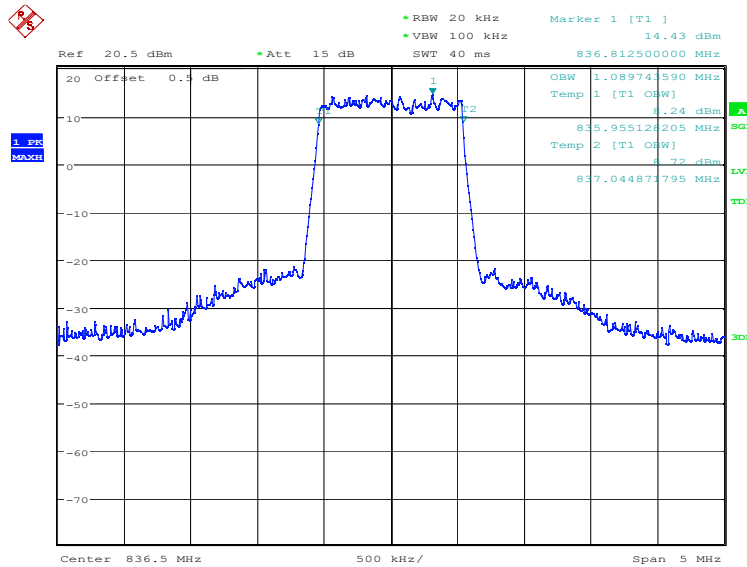
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1081.73	1089.74

LTE band 5, 1.4MHz Bandwidth, QPSK (99% BW)



Date: 7.APR.2022 11:39:37

LTE band 5, 1.4MHz Bandwidth, 16QAM (99% BW)

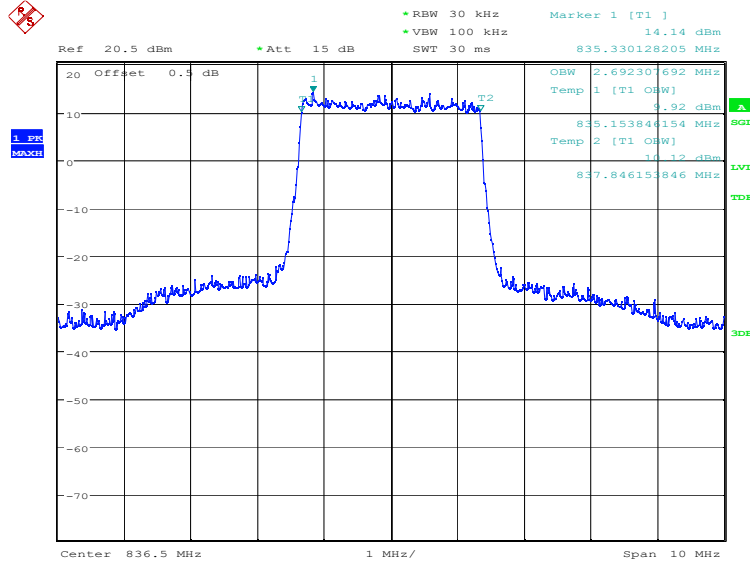


Date: 7.APR.2022 11:40:15

LTE band 5, 3MHz (99%)

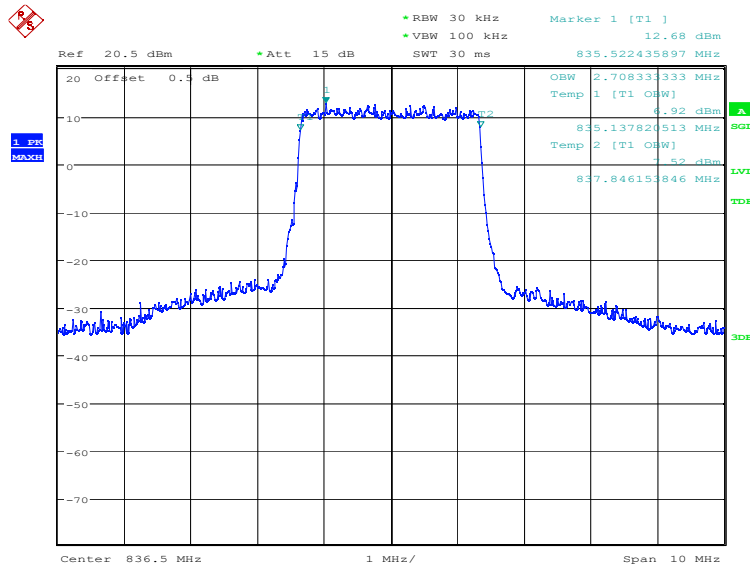
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2708.33

LTE band 5, 3MHz Bandwidth, QPSK (99% BW)



Date: 7.APR.2022 11:40:59

LTE band 5, 3MHz Bandwidth, 16QAM (99% BW)

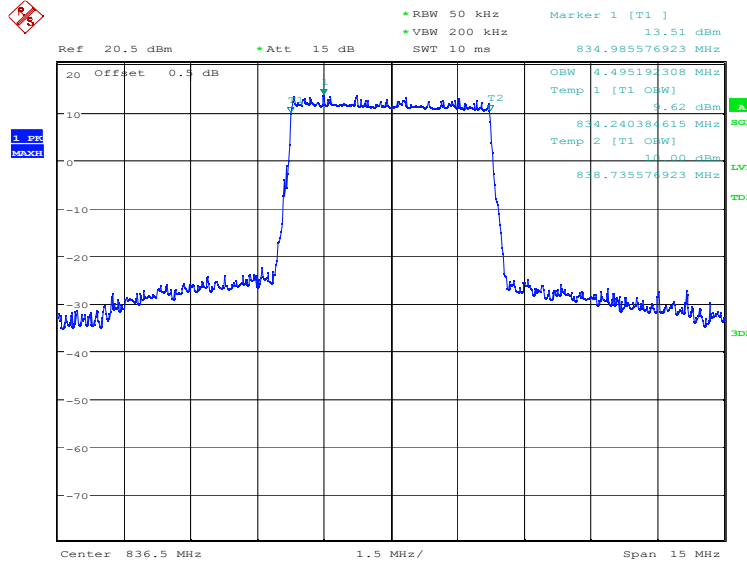


Date: 7.APR.2022 11:41:37

LTE band 5, 5MHz (99%)

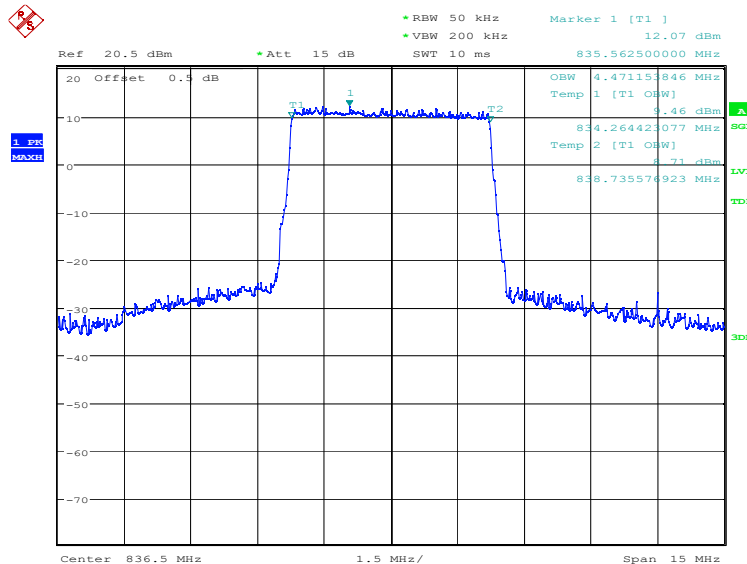
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	4495.19	4471.15

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



Date: 7.APR.2022 11:42:21

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

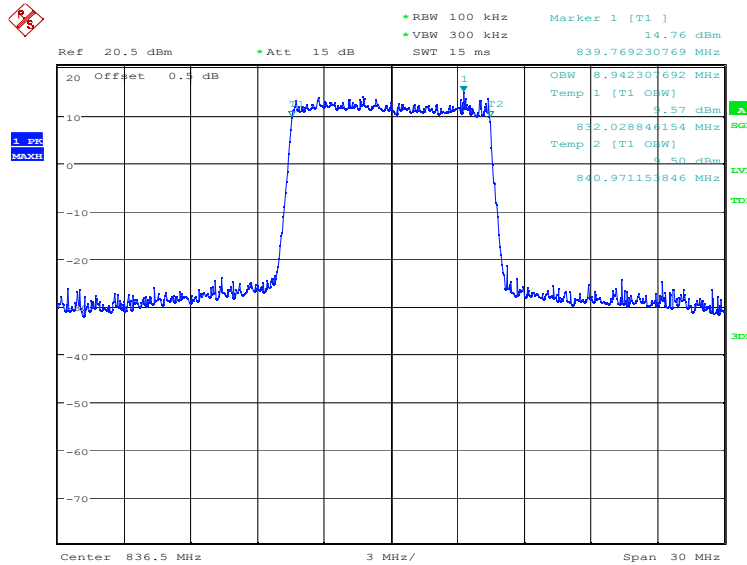


Date: 7.APR.2022 11:42:59

LTE band 5, 10MHz (99%)

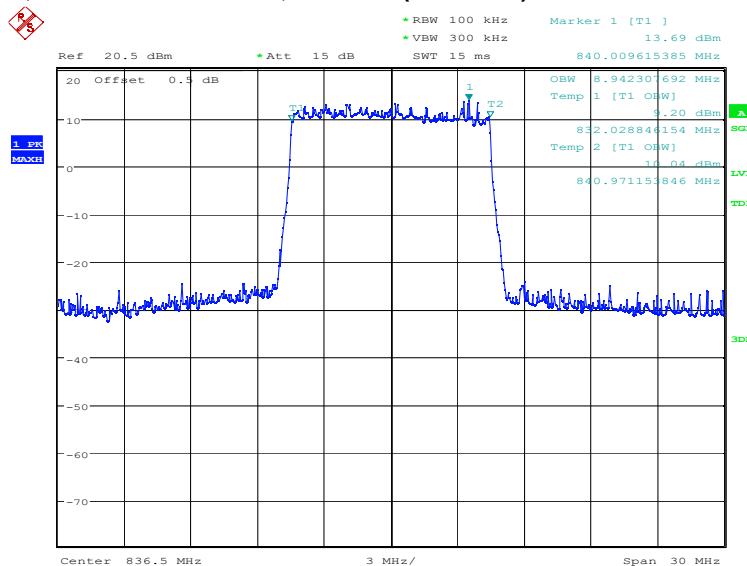
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8942.31	8942.31

LTE band 5, 10MHz Bandwidth, QPSK (99% BW)



Date: 7.APR.2022 11:43:42

LTE band 5, 10MHz Bandwidth, 16QAM (99% BW)

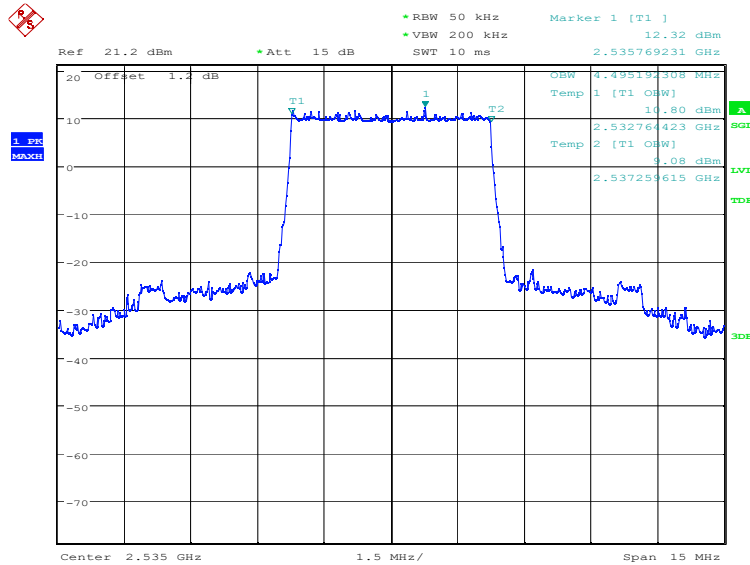


Date: 7.APR.2022 11:44:21

LTE band 7, 5MHz (99%)

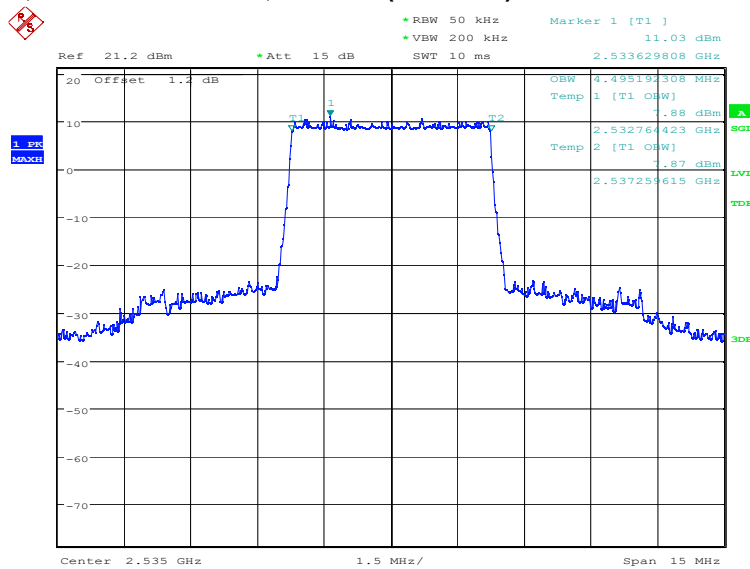
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 5.MAR.2022 12:55:33

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

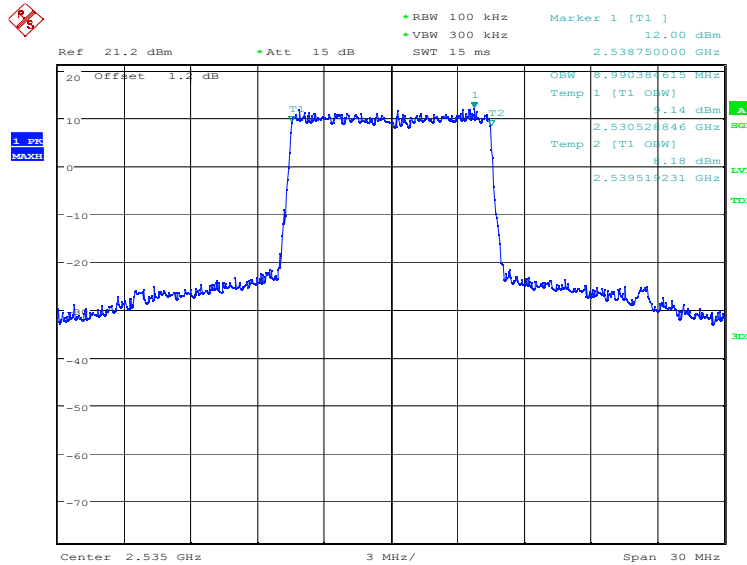


Date: 5.MAR.2022 12:56:13

LTE band 7, 10MHz (99%)

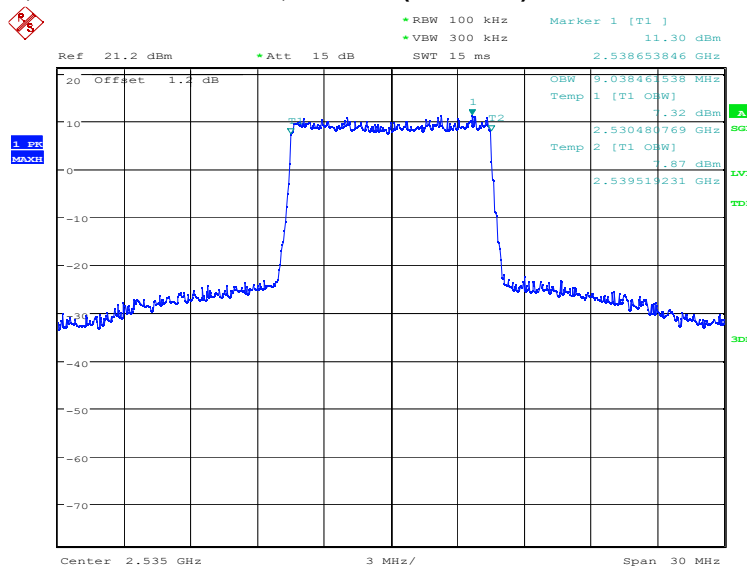
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	8990.38	9038.46

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



Date: 5.MAR.2022 12:56:56

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

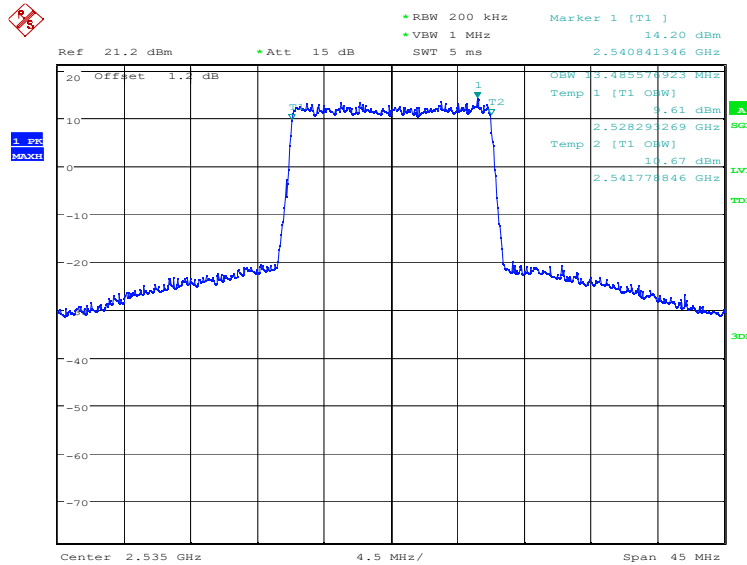


Date: 5.MAR.2022 12:57:35

LTE band 7, 15MHz (99%)

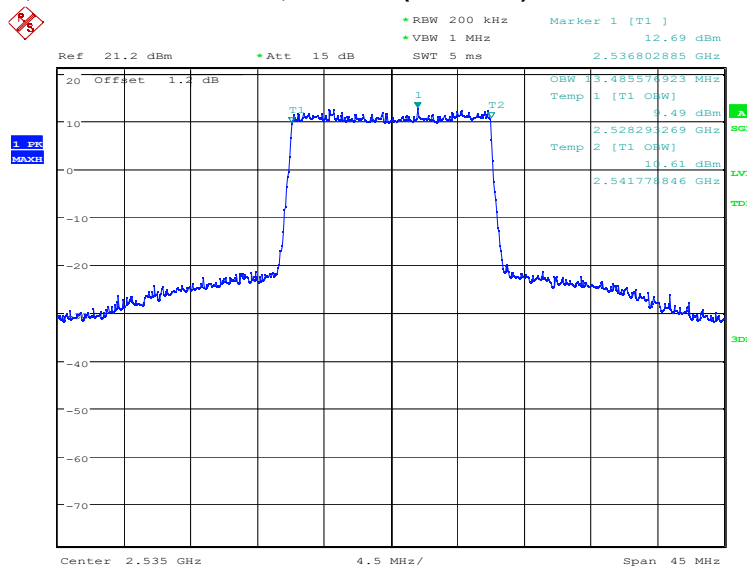
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 5.MAR.2022 12:58:18

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

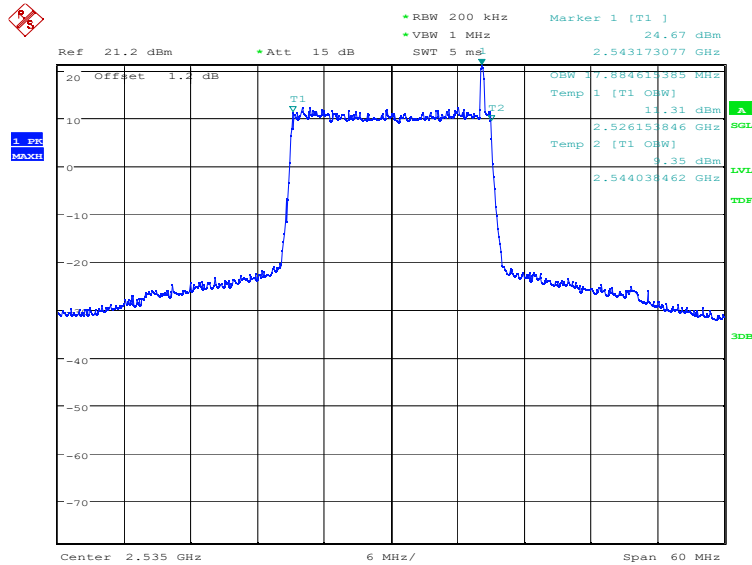


Date: 5.MAR.2022 12:58:58

LTE band 7, 20MHz (99%)

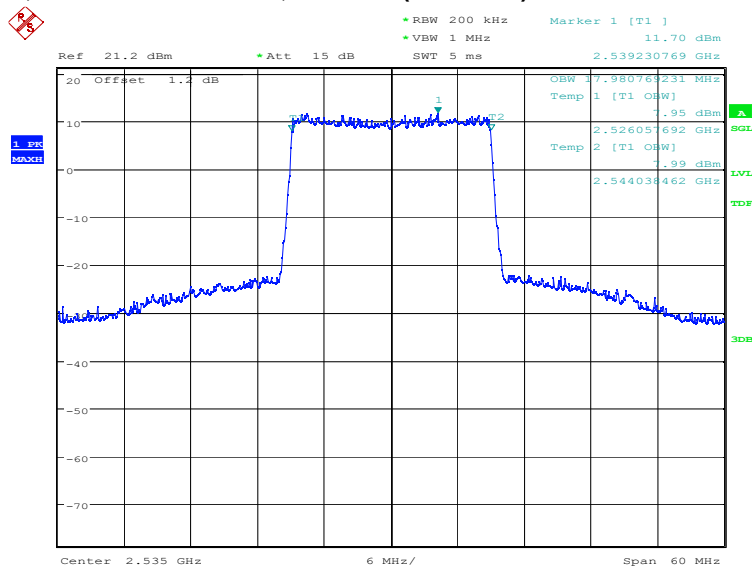
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	17884.62	17980.77

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



Date: 5.MAR.2022 12:59:41

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

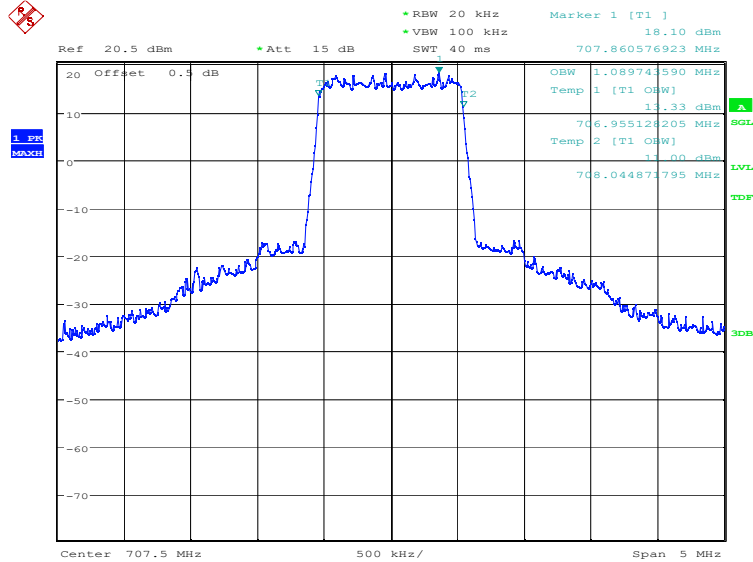


Date: 5.MAR.2022 13:00:20

LTE band 12, 1.4MHz (99%)

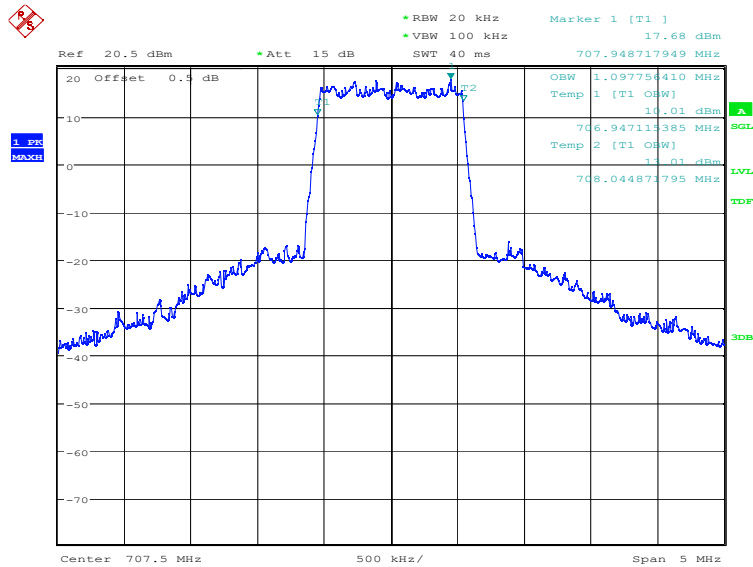
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	1089.74	1097.76

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



Date: 4.MAR.2022 13:40:43

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

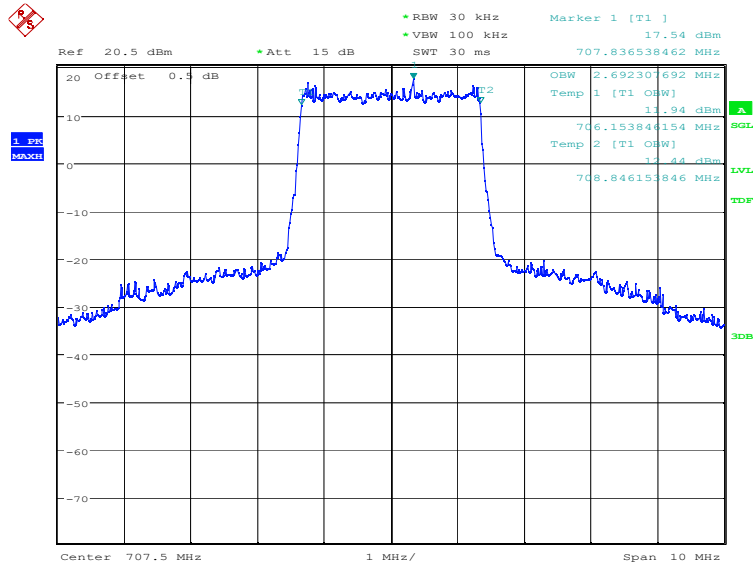


Date: 4.MAR.2022 13:41:22

LTE band 12, 3MHz (99%)

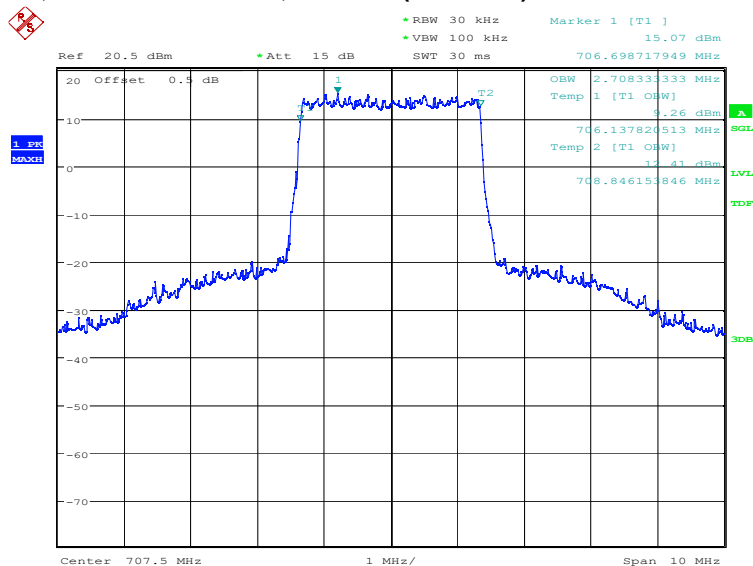
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	2692.31	2708.33

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



Date: 4.MAR.2022 13:42:07

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

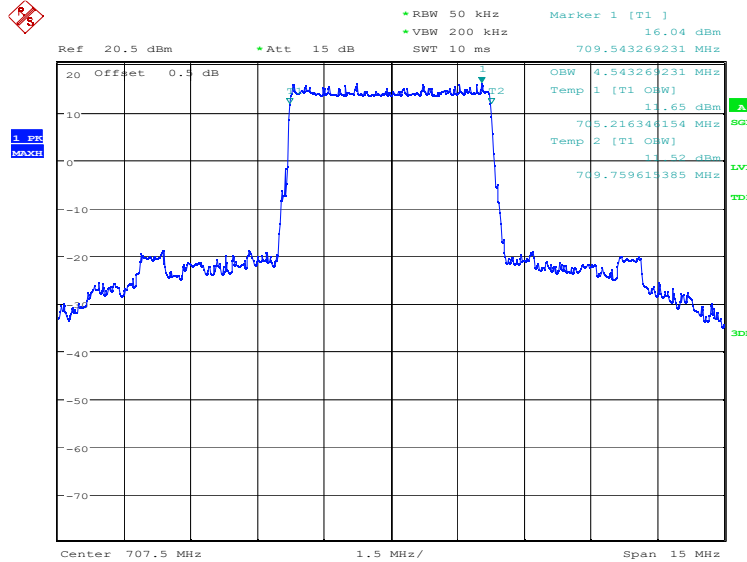


Date: 4.MAR.2022 13:42:46

LTE band 12, 5MHz (99%)

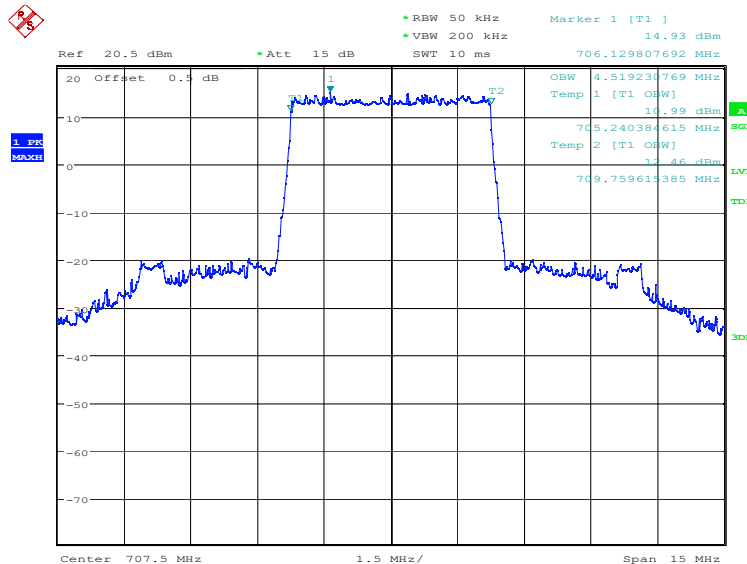
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	4543.27	4519.23

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



Date: 4.MAR.2022 13:43:31

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

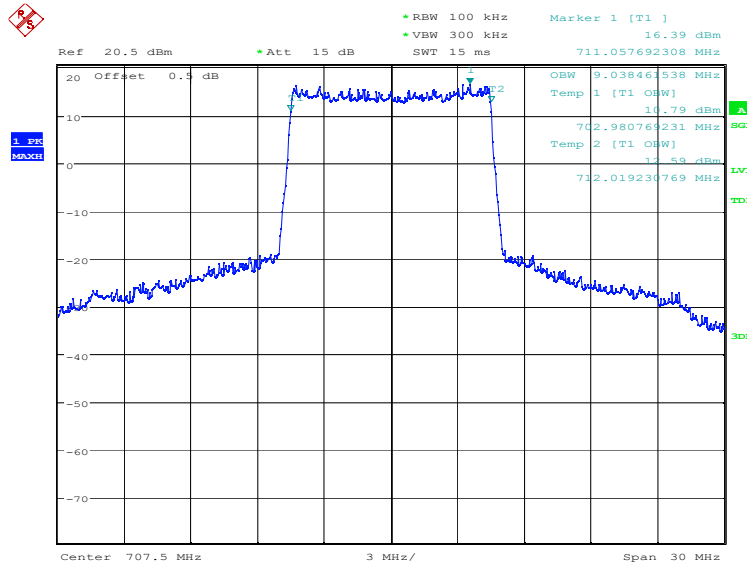


Date: 4.MAR.2022 13:44:11

LTE band 12, 10MHz (99%)

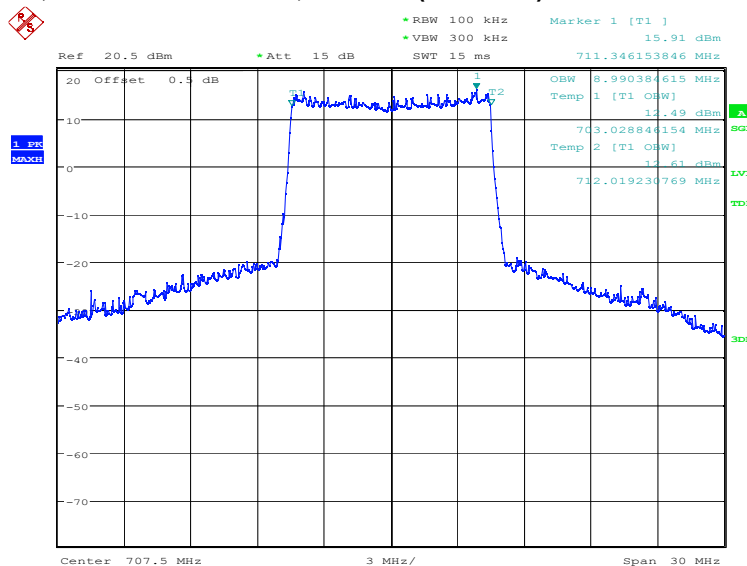
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	9038.46	8990.38

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



Date: 4.MAR.2022 13:44:56

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

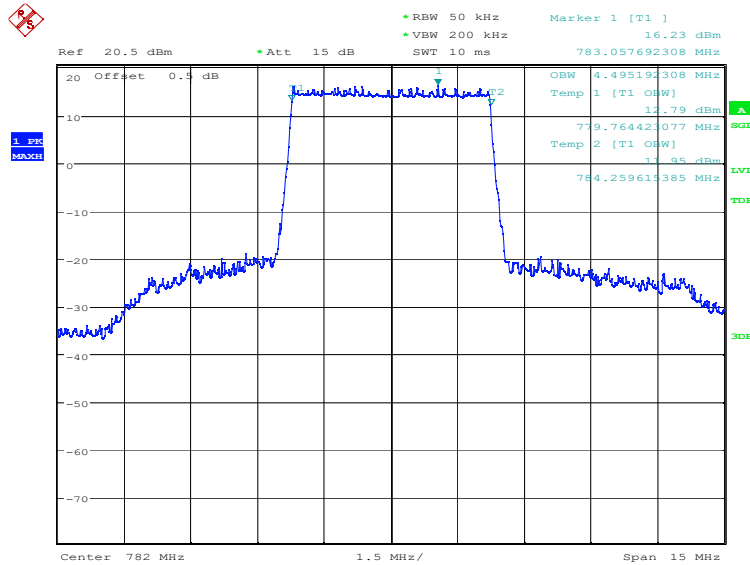


Date: 4.MAR.2022 13:45:35

LTE band 13, 5MHz (99%)

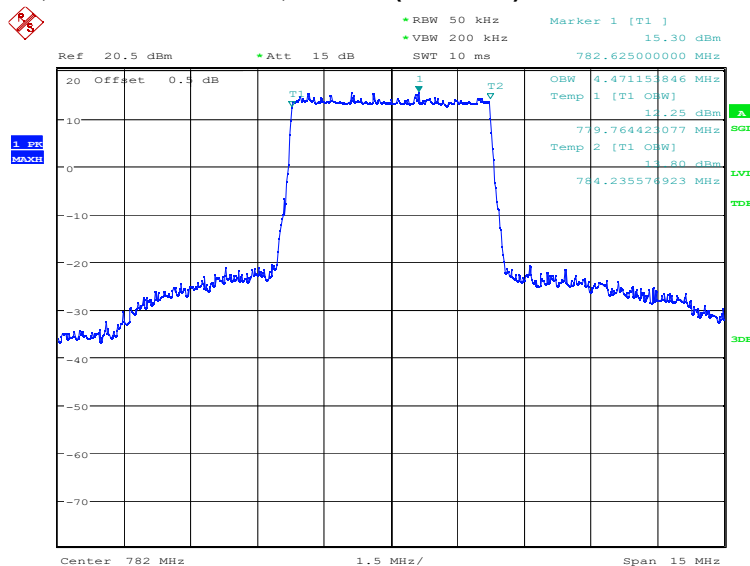
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	4495.19	4471.15

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



Date: 4.MAR.2022 13:46:23

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

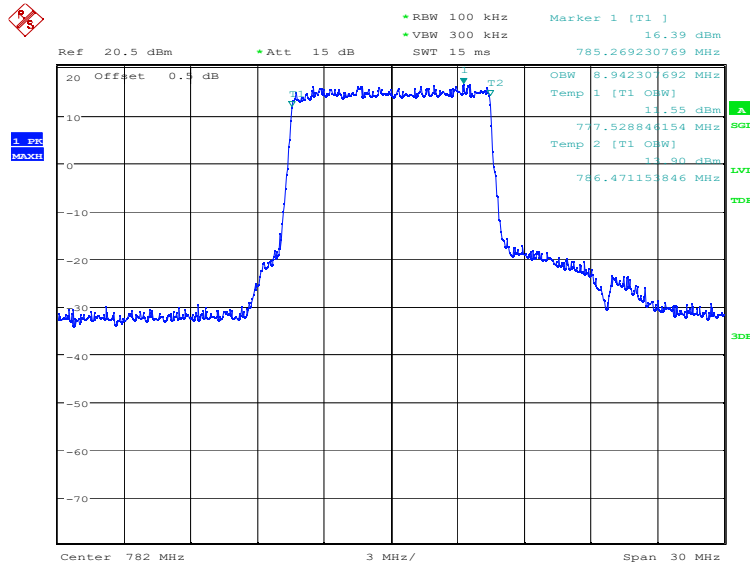


Date: 4.MAR.2022 13:47:03

LTE band 13, 10MHz (99%)

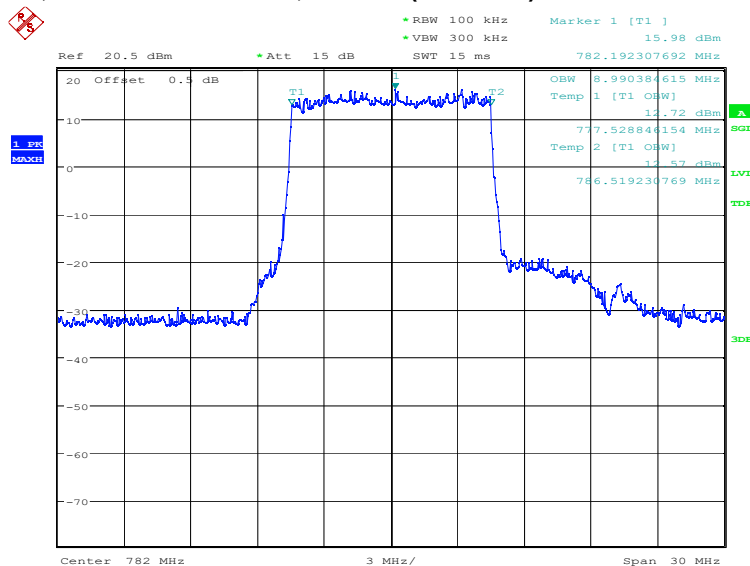
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	8942.31	8990.38

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



Date: 4.MAR.2022 13:47:46

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

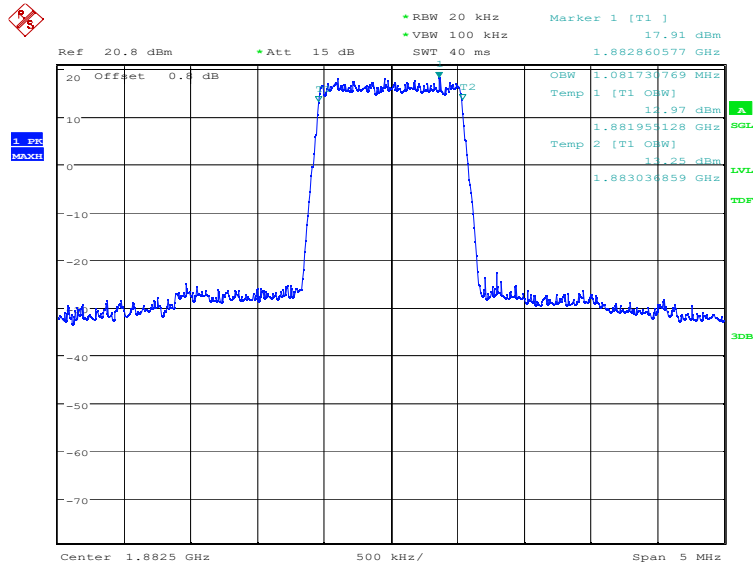


Date: 4.MAR.2022 13:48:26

LTE band 25, 1.4MHz (99%)

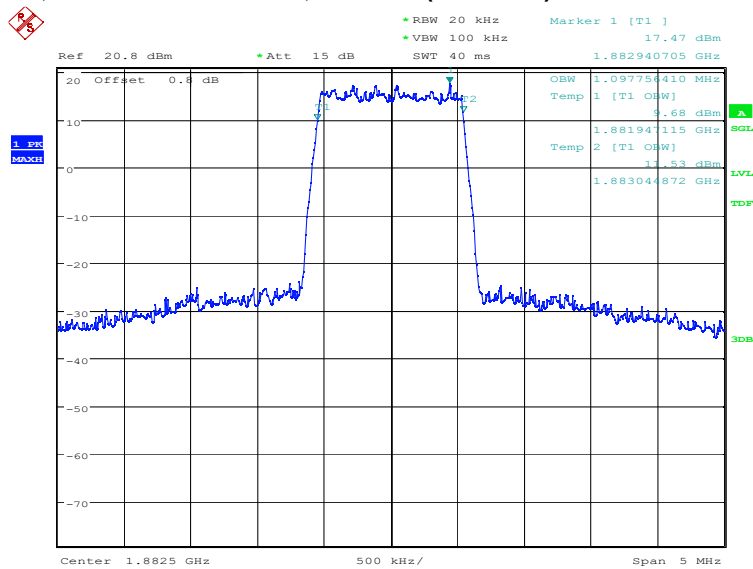
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	1081.73	1097.76

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



Date: 4.MAR.2022 10:28:10

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

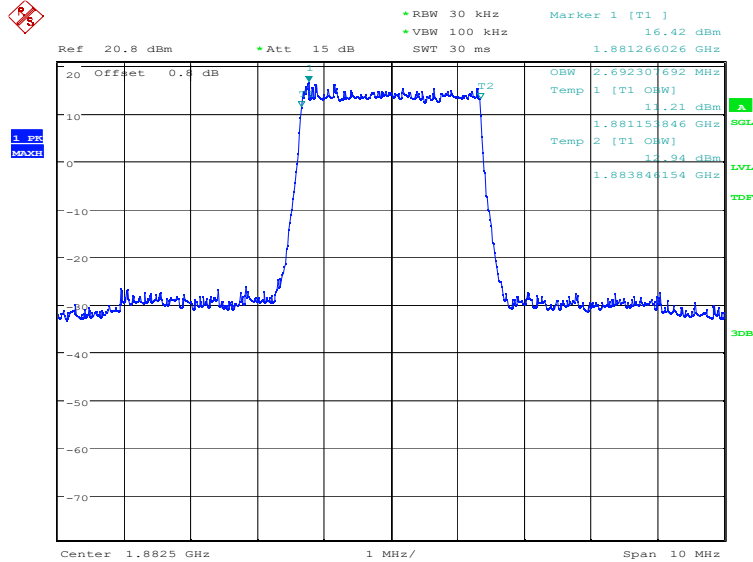


Date: 4.MAR.2022 10:28:49

LTE band 25, 3MHz (99%)

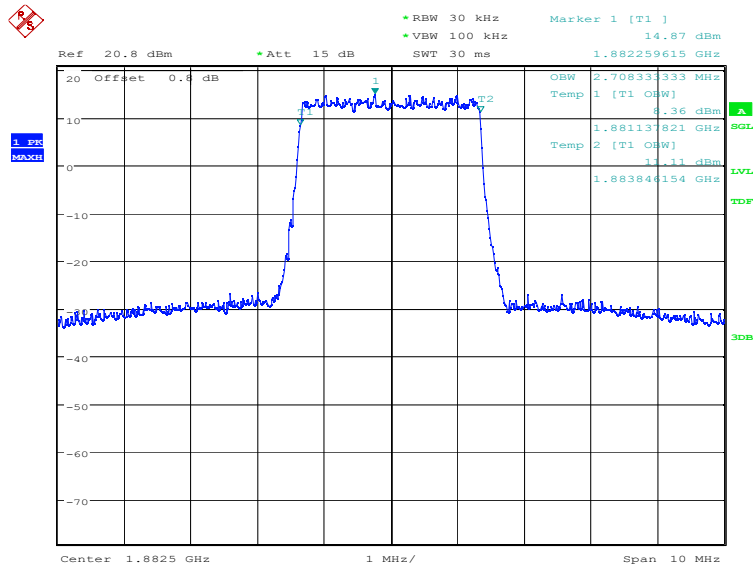
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	2692.31	2708.33

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



Date: 4.MAR.2022 10:29:32

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

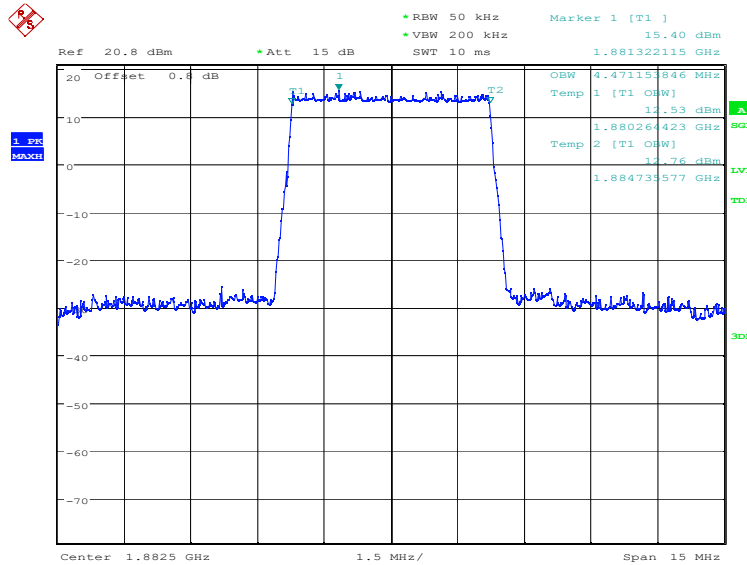


Date: 4.MAR.2022 10:30:12

LTE band 25, 5MHz (99%)

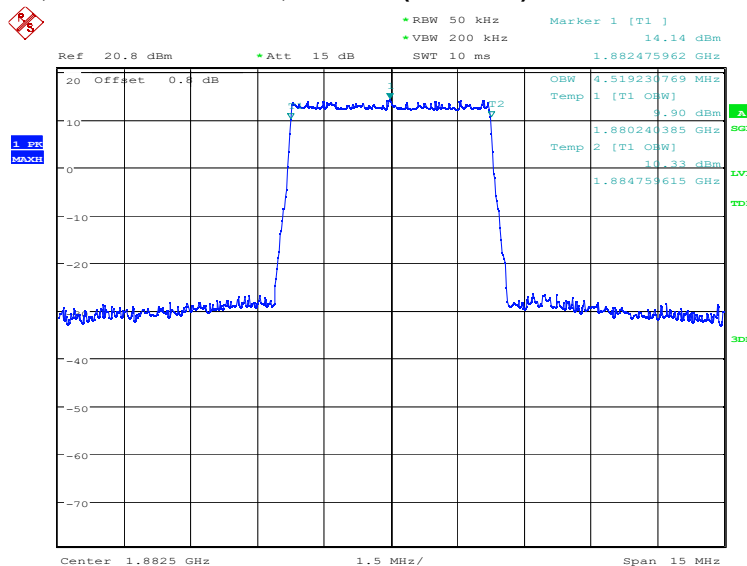
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	4471.15	4519.23

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



Date: 4.MAR.2022 10:30:55

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

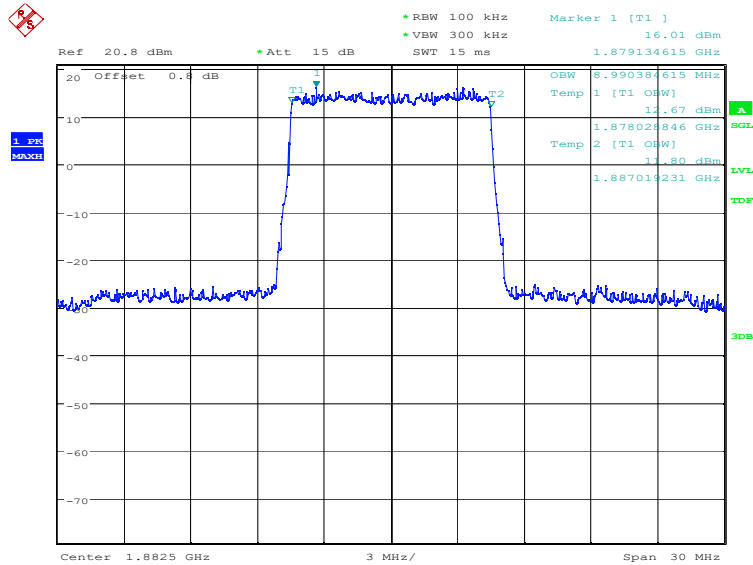


Date: 4.MAR.2022 10:31:34

LTE band 25, 10MHz (99%)

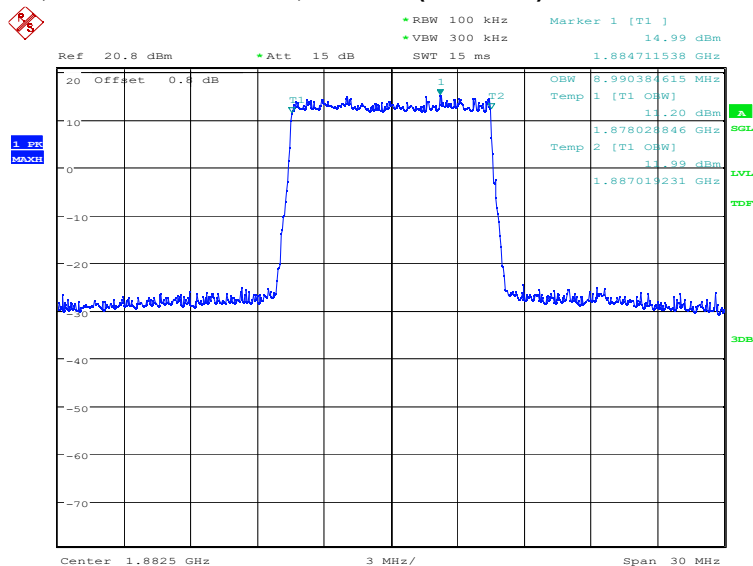
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	8990.38	8990.38

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



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

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

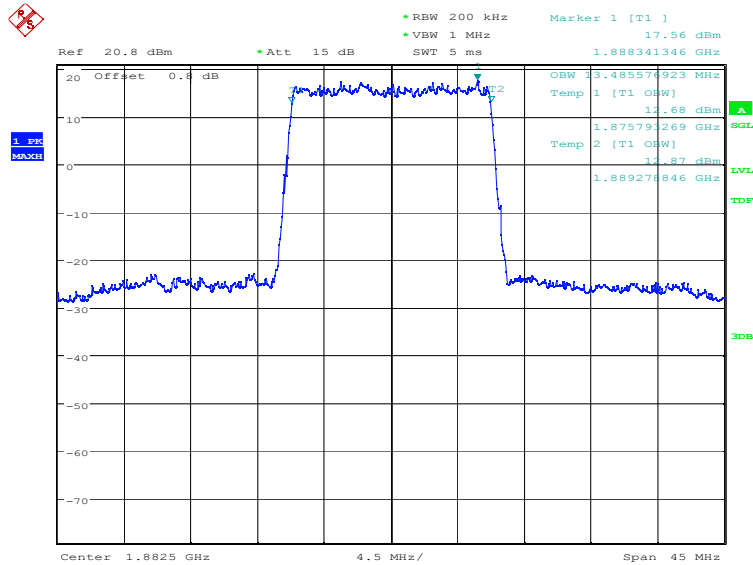


Date: 4.MAR.2022 10:32:57

LTE band 25, 15MHz (99%)

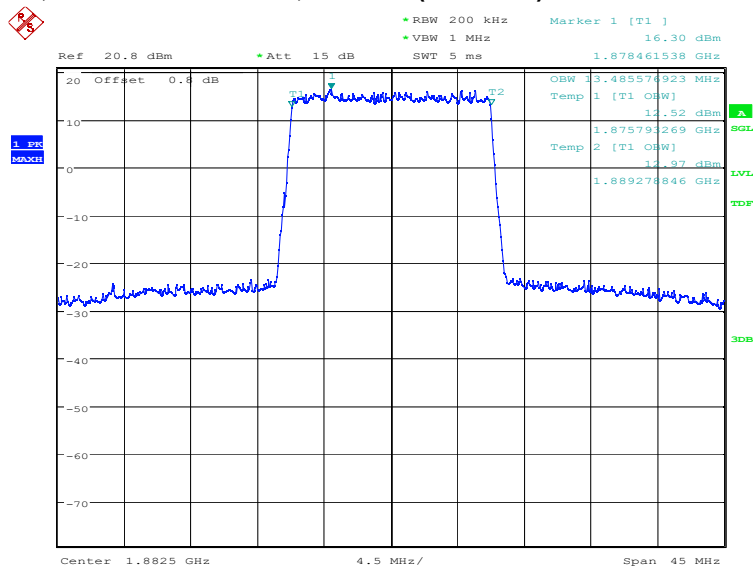
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 4.MAR.2022 10:33:40

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

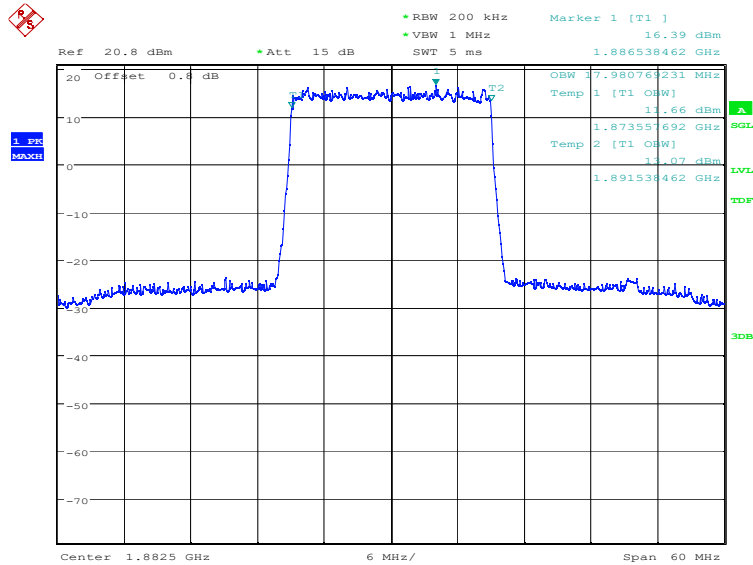


Date: 4.MAR.2022 10:34:20

LTE band 25, 20MHz (99%)

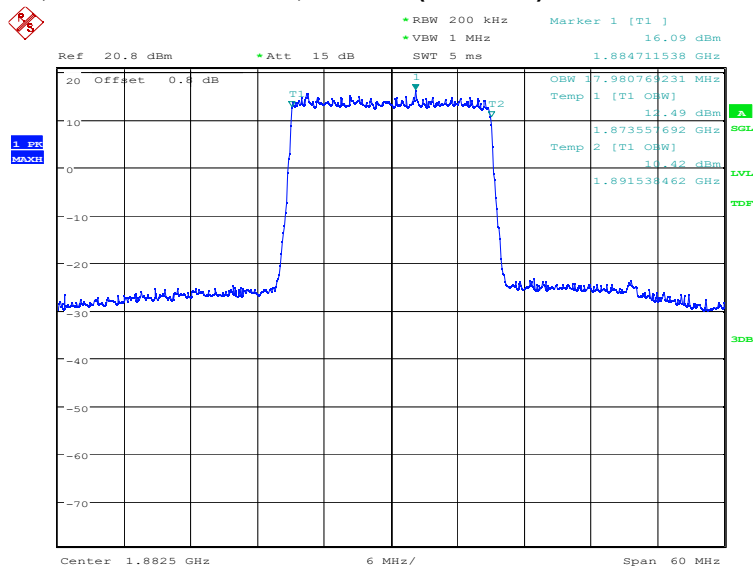
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	17980.77	17980.77

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



Date: 4.MAR.2022 10:35:03

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

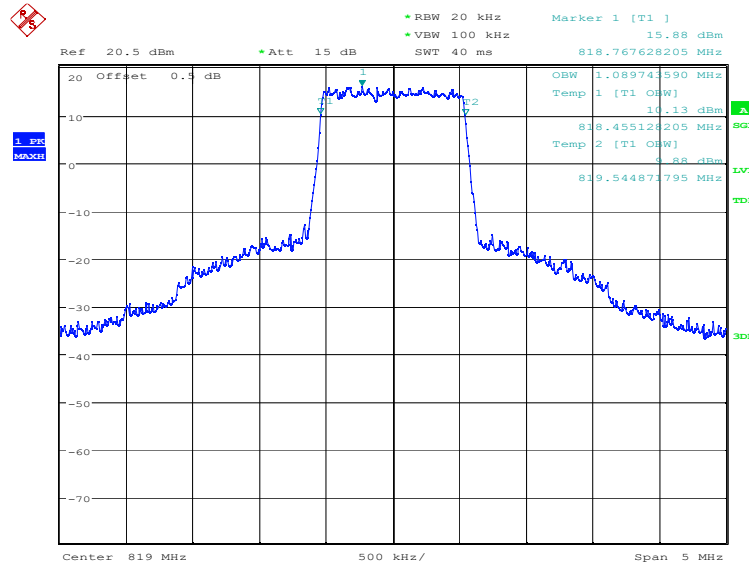


Date: 4.MAR.2022 10:35:43

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

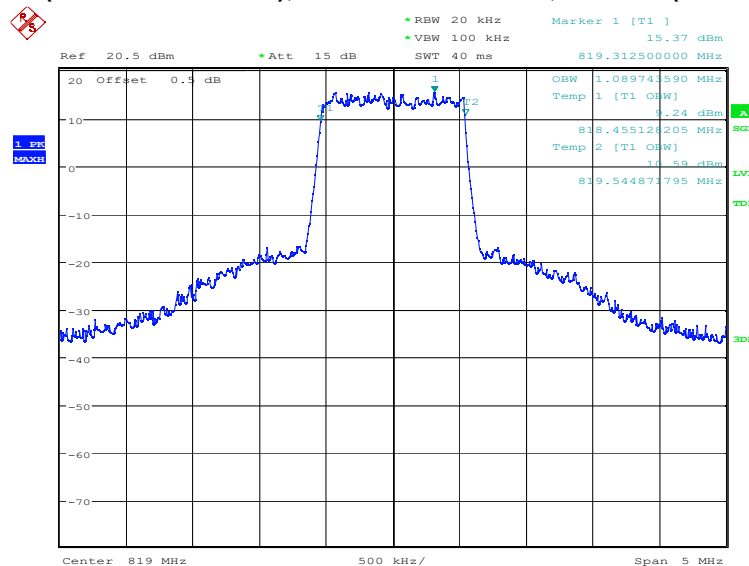
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	1089.74	1089.74

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



Date: 4.MAR.2022 10:44:57

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

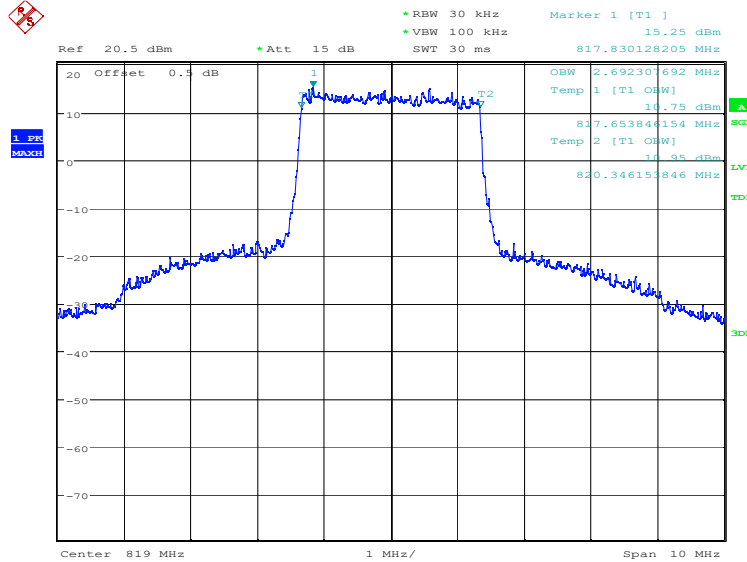


Date: 4.MAR.2022 10:45:36

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

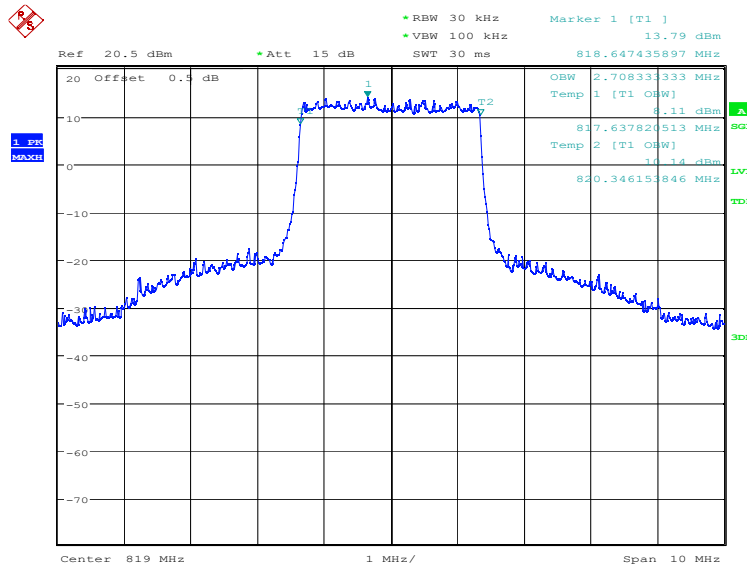
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	2692.31	2708.33

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



Date: 4.MAR.2022 10:46:20

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

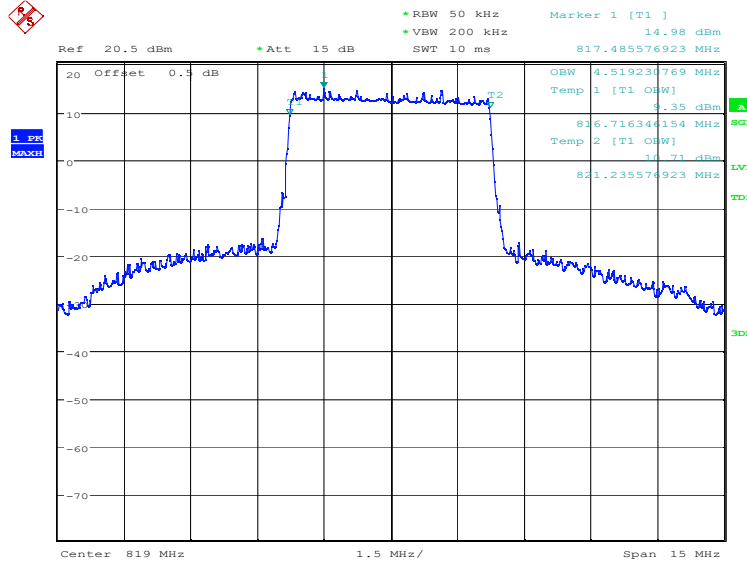


Date: 4.MAR.2022 10:46:59

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

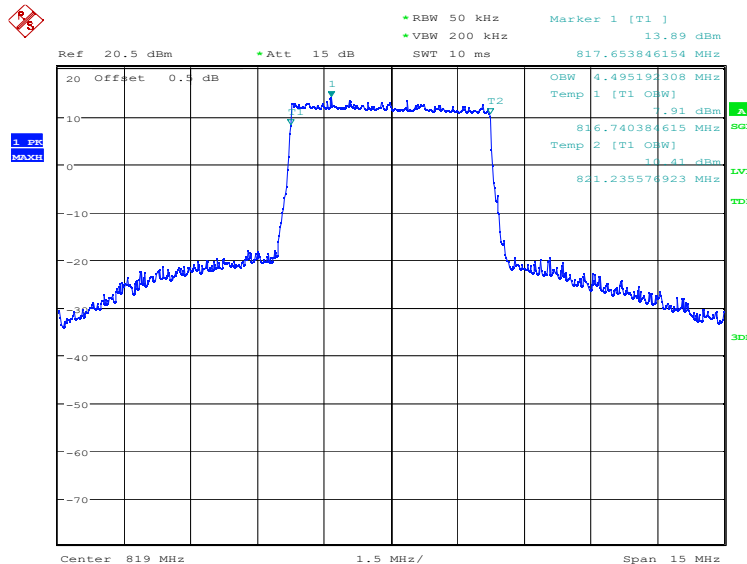
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	4519.23	4495.19

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



Date: 4.MAR.2022 10:47:42

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

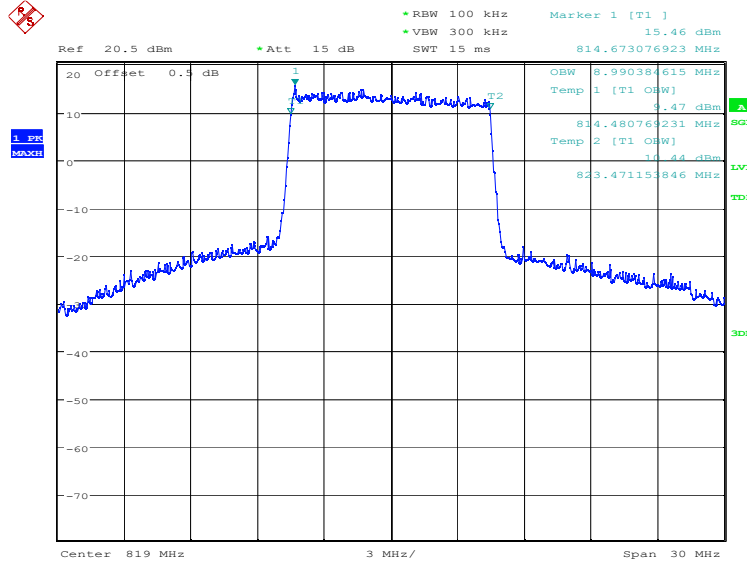


Date: 4.MAR.2022 10:48:22

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

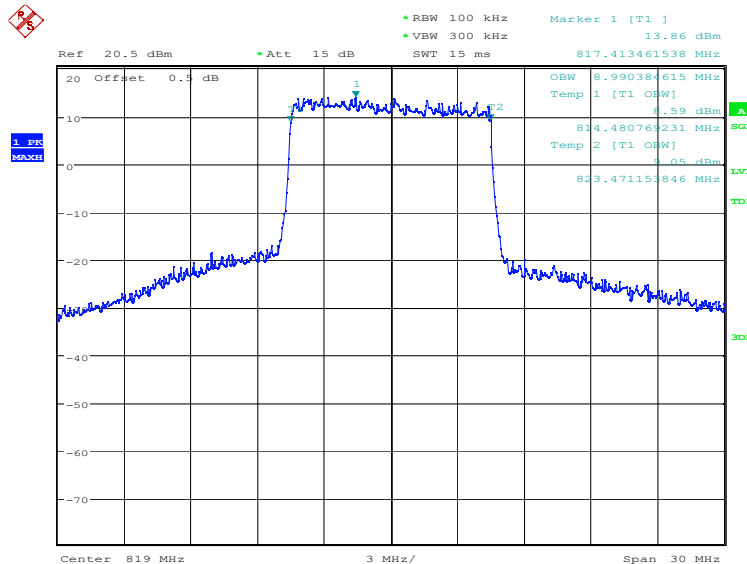
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	8990.38	8990.38

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



Date: 4.MAR.2022 10:49:05

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

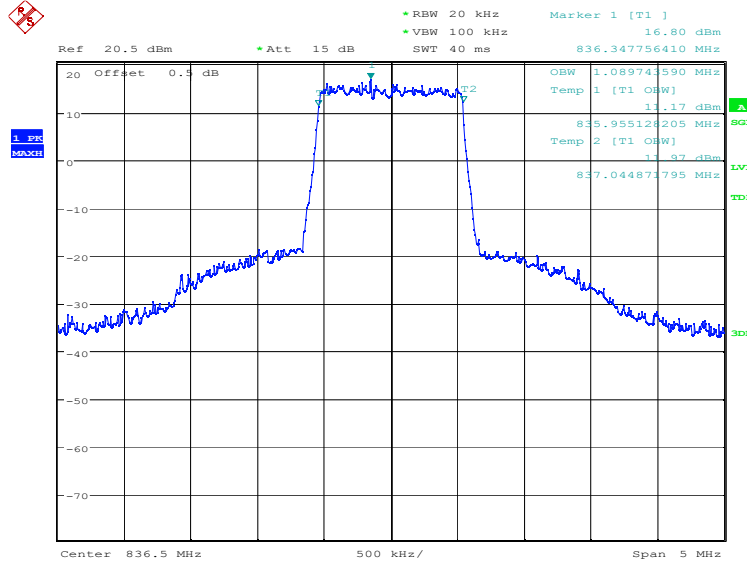


Date: 4.MAR.2022 10:49:45

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

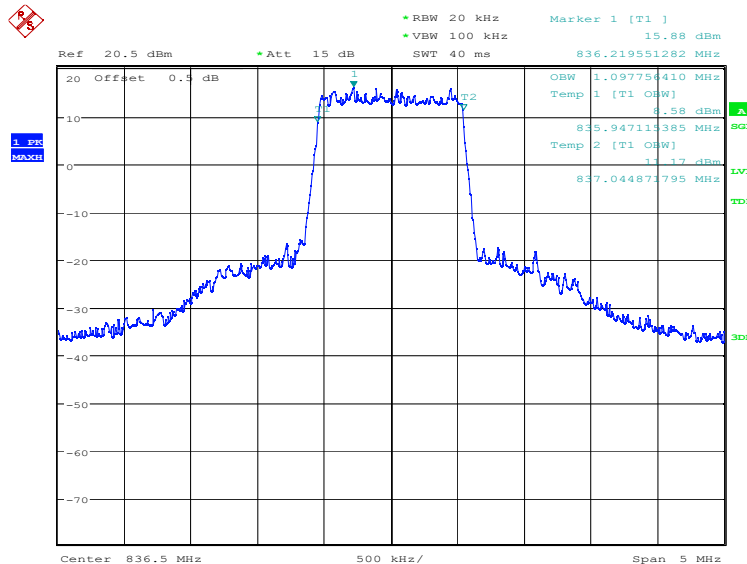
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1089.74	1097.76

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



Date: 4.MAR.2022 10:37:21

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

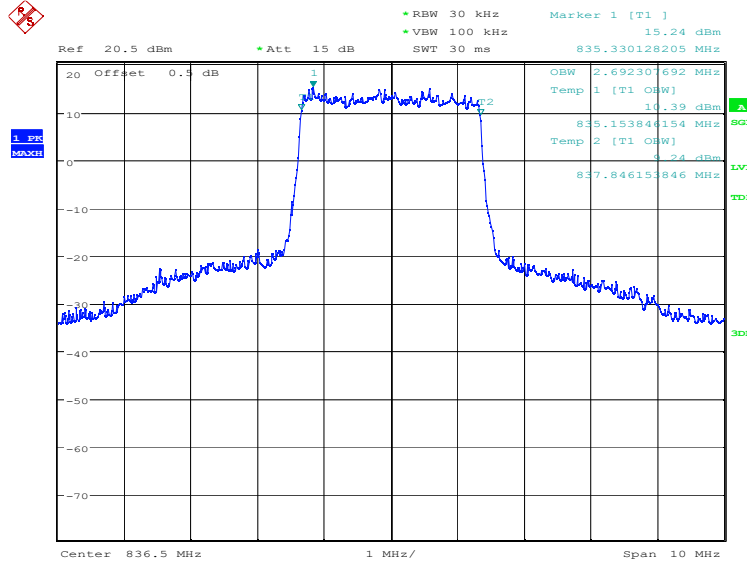


Date: 4.MAR.2022 10:38:01

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

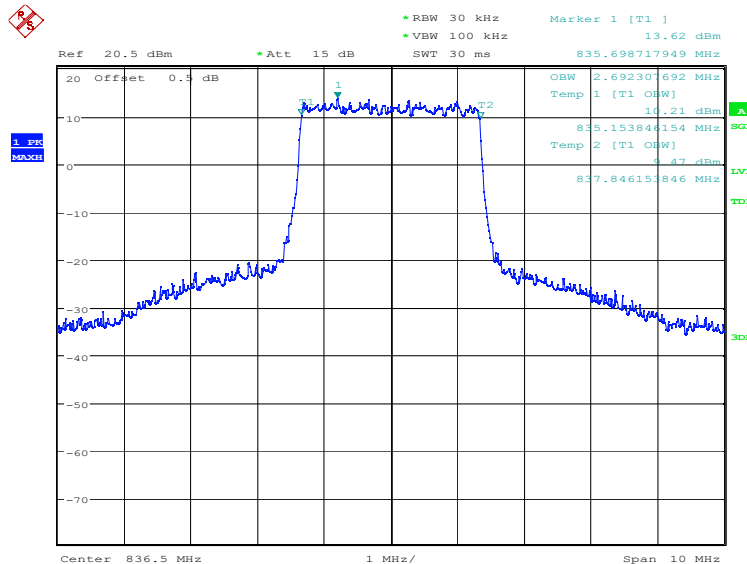
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 4.MAR.2022 10:38:44

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

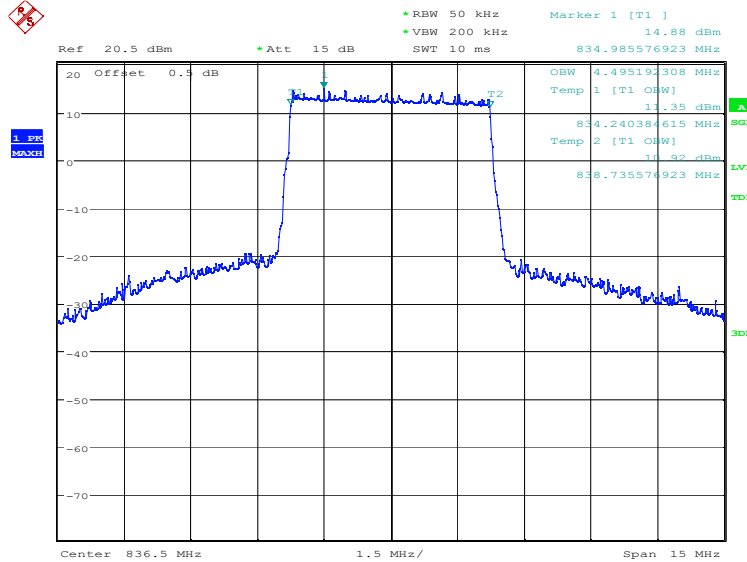


Date: 4.MAR.2022 10:39:23

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

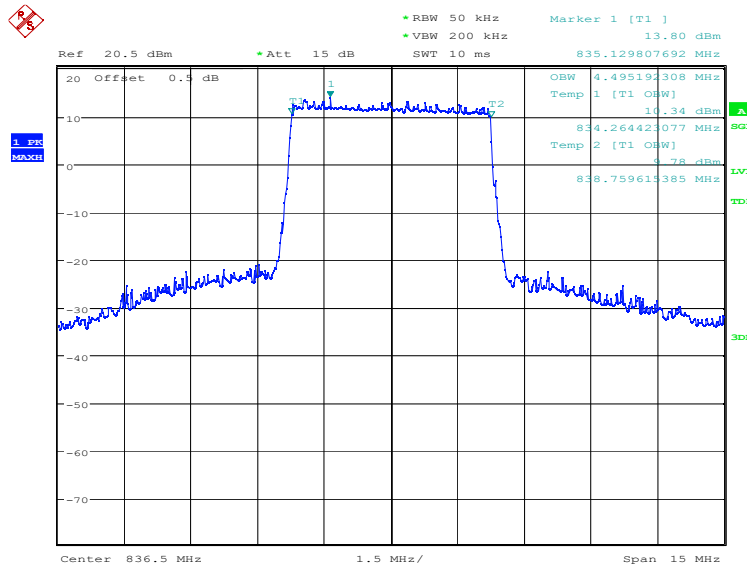
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	4495.19	4495.19

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



Date: 4.MAR.2022 10:40:06

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

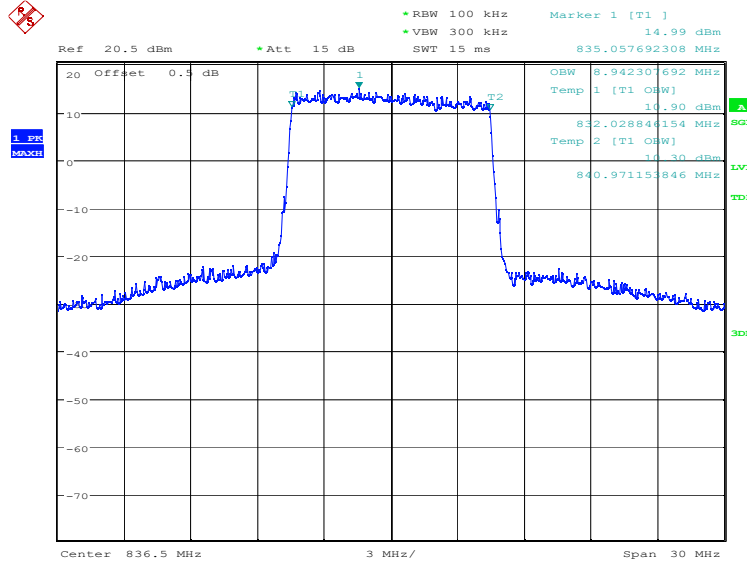


Date: 4.MAR.2022 10:40:46

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

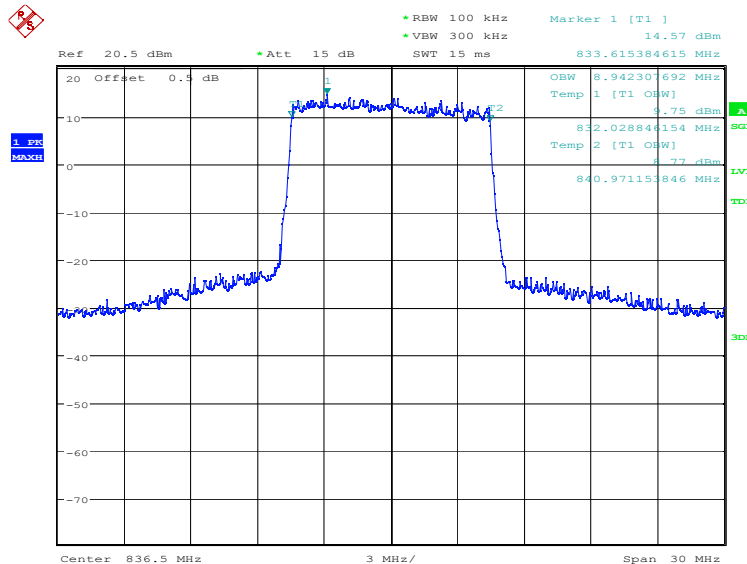
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8942.31	8942.31

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



Date: 4.MAR.2022 10:41:29

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

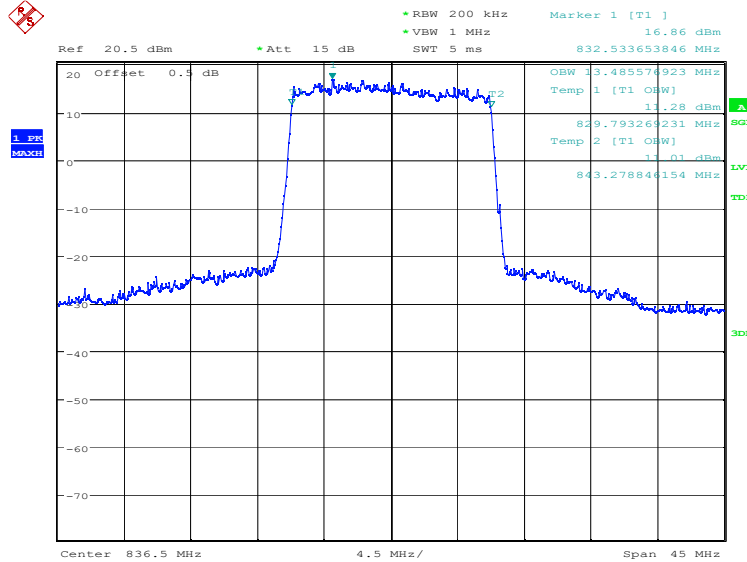


Date: 4.MAR.2022 10:42:08

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

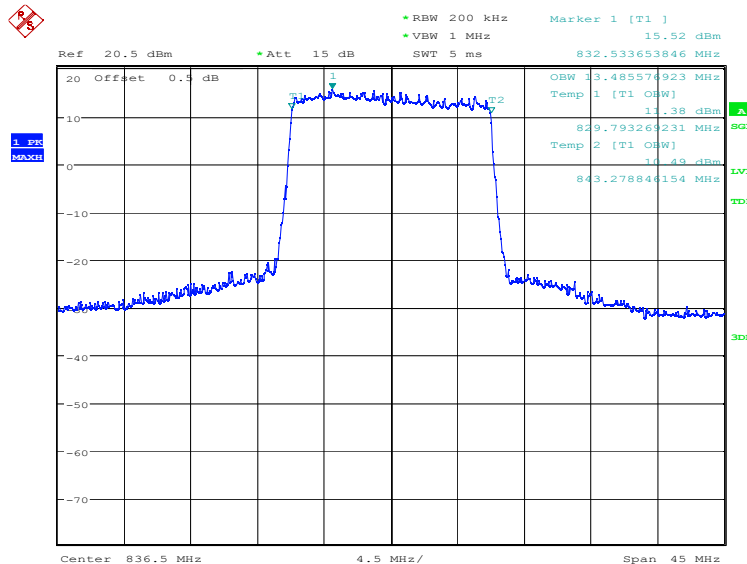
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 4.MAR.2022 10:42:52

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

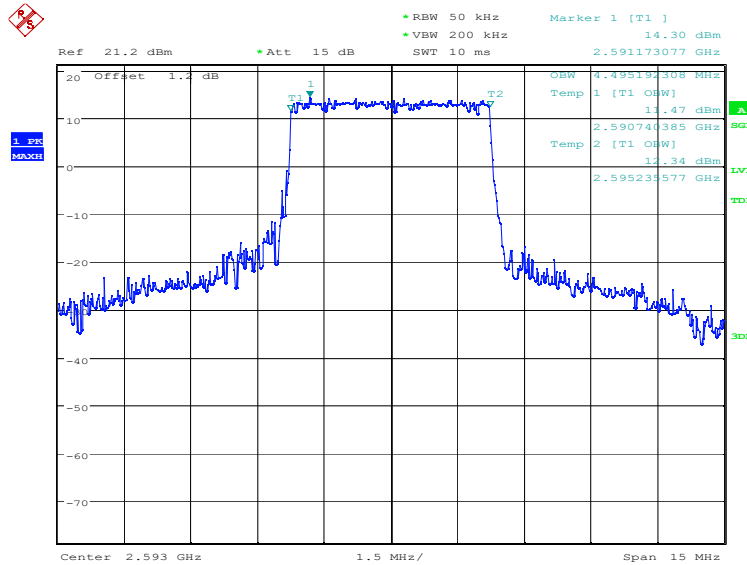


Date: 4.MAR.2022 10:43:31

LTE band 41, 5MHz (99%)

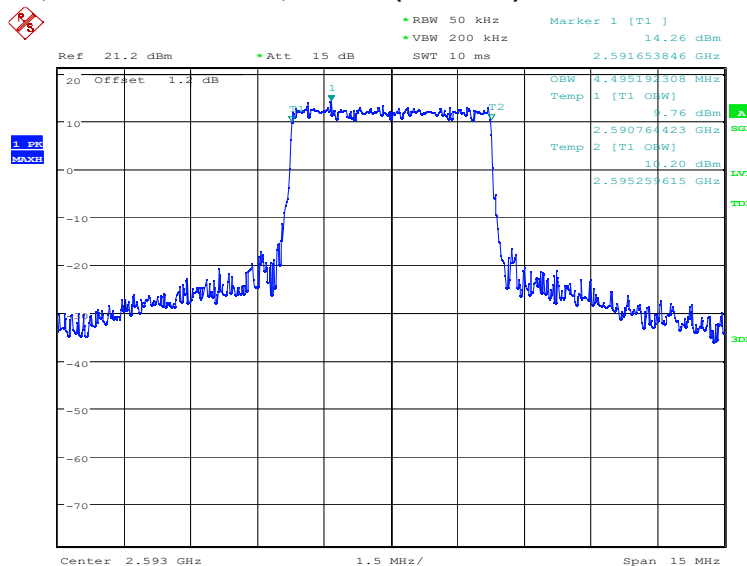
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 5.MAR.2022 13:01:46

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

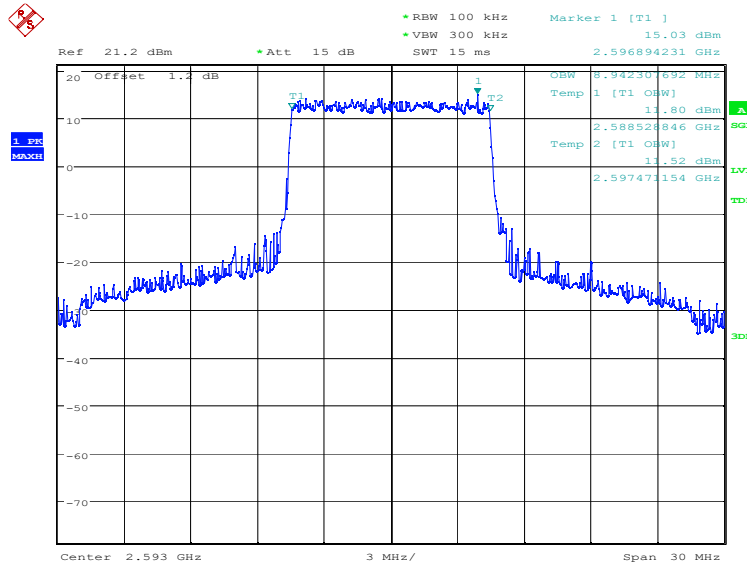


Date: 5.MAR.2022 13:02:26

LTE band 41, 10MHz (99%)

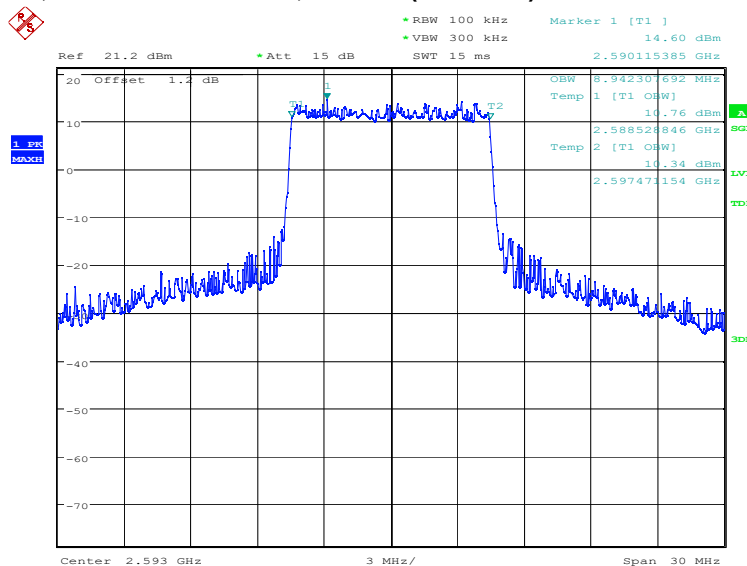
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 5.MAR.2022 13:03:09

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

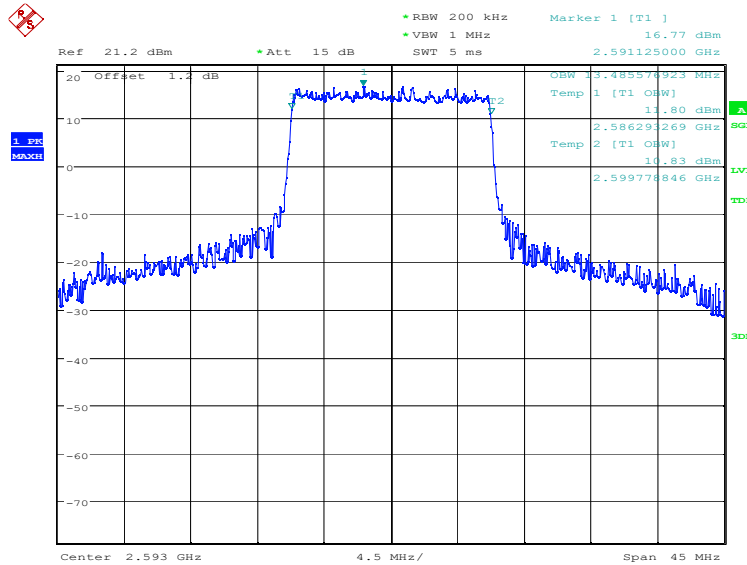


Date: 5.MAR.2022 13:03:49

LTE band 41, 15MHz (99%)

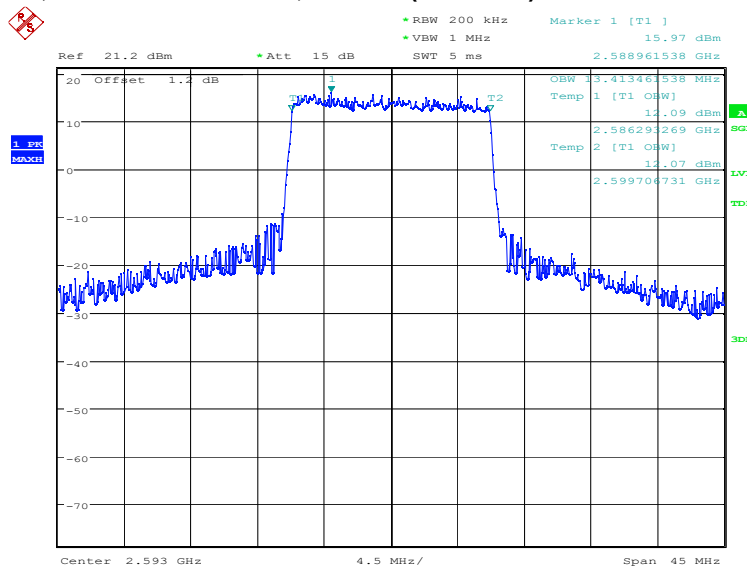
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	13485.58	13413.46

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



Date: 5.MAR.2022 13:04:32

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

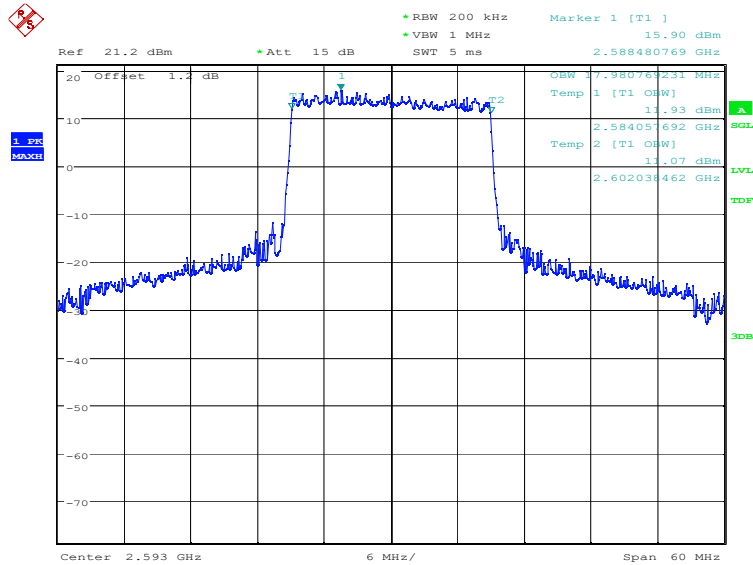


Date: 5.MAR.2022 13:05:11

LTE band 41, 20MHz (99%)

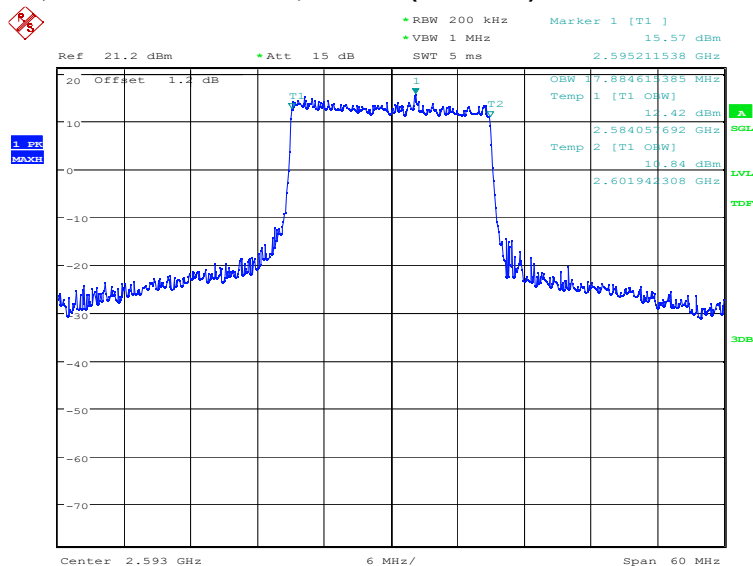
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	17980.77	17884.62

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



Date: 5.MAR.2022 13:05:55

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

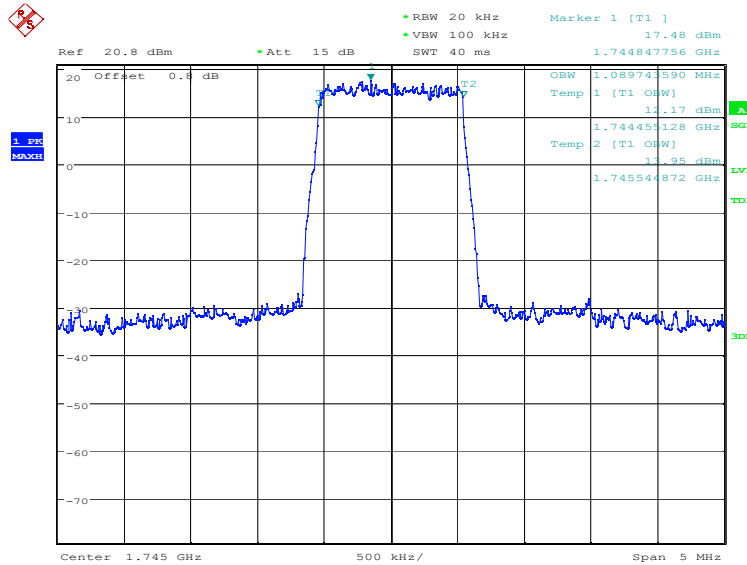


Date: 5.MAR.2022 13:06:34

LTE band 66, 1.4MHz (99%)

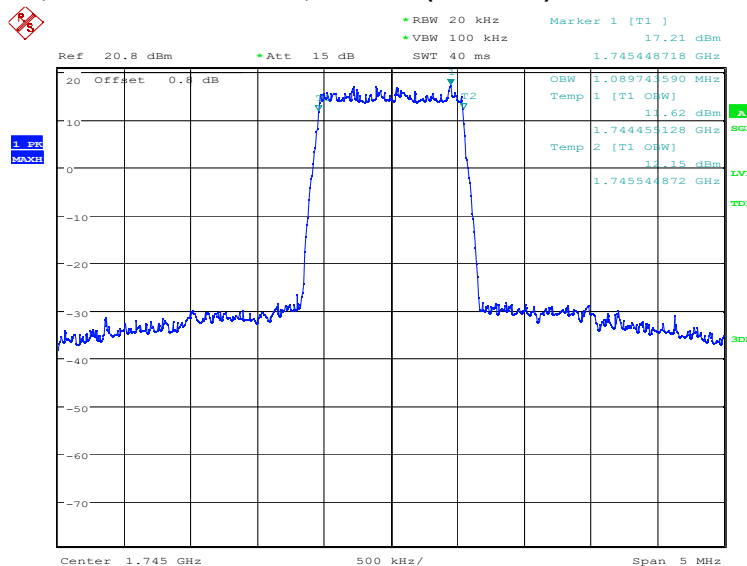
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	1089.74	1089.74

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



Date: 4.MAR.2022 10:50:32

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

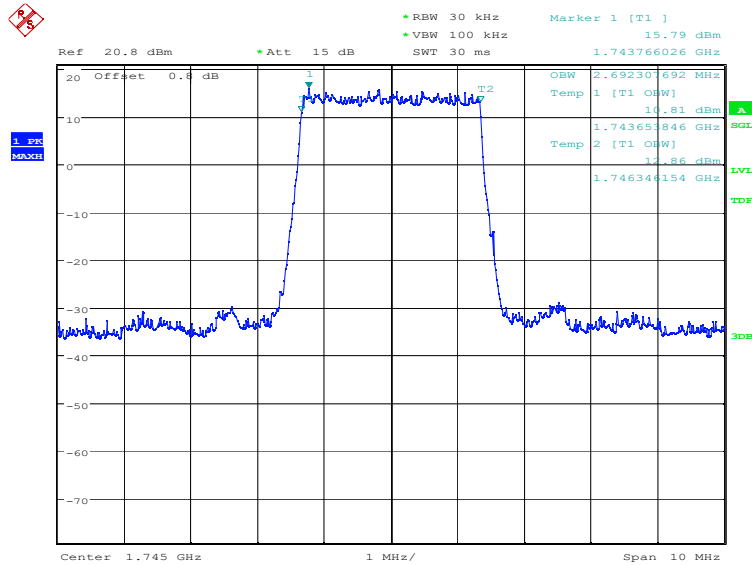


Date: 4.MAR.2022 10:51:11

LTE band 66, 3MHz (99%)

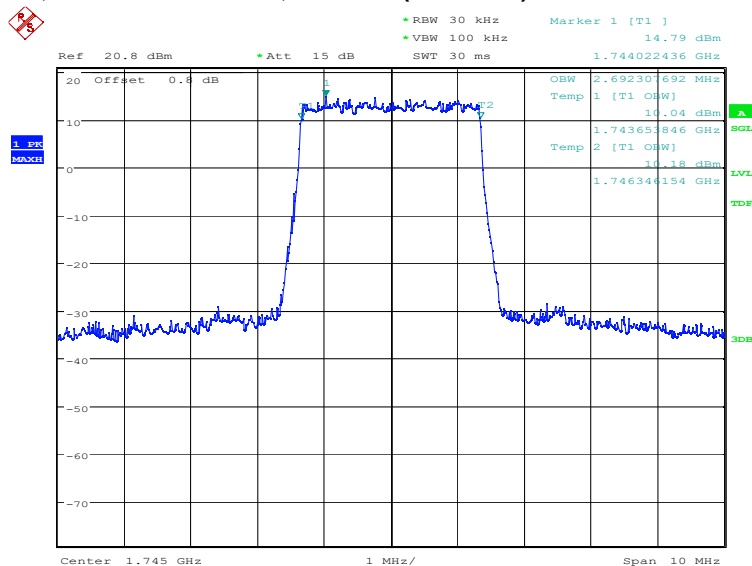
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 4.MAR.2022 10:51:55

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

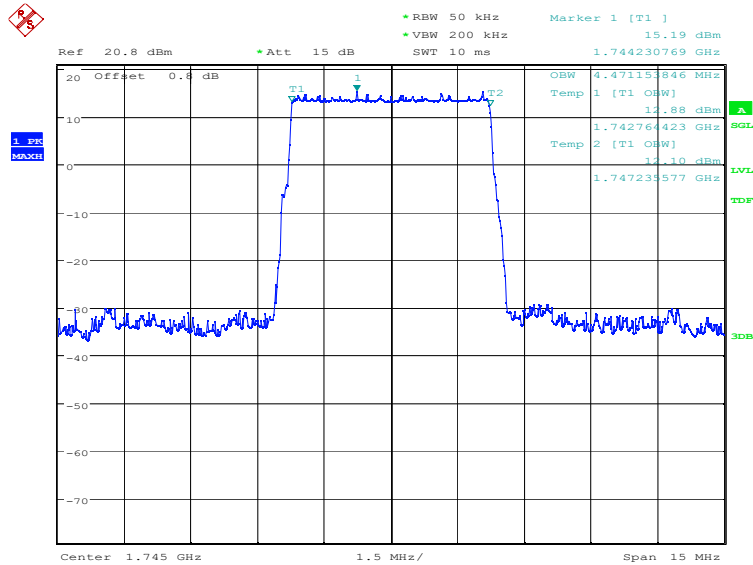


Date: 4.MAR.2022 10:52:34

LTE band 66, 5MHz (99%)

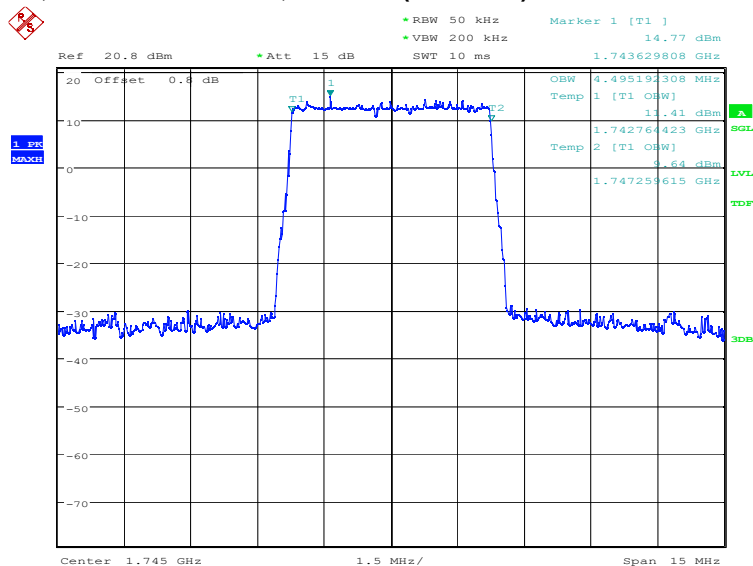
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	4471.15	4495.19

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



Date: 4.MAR.2022 10:53:18

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

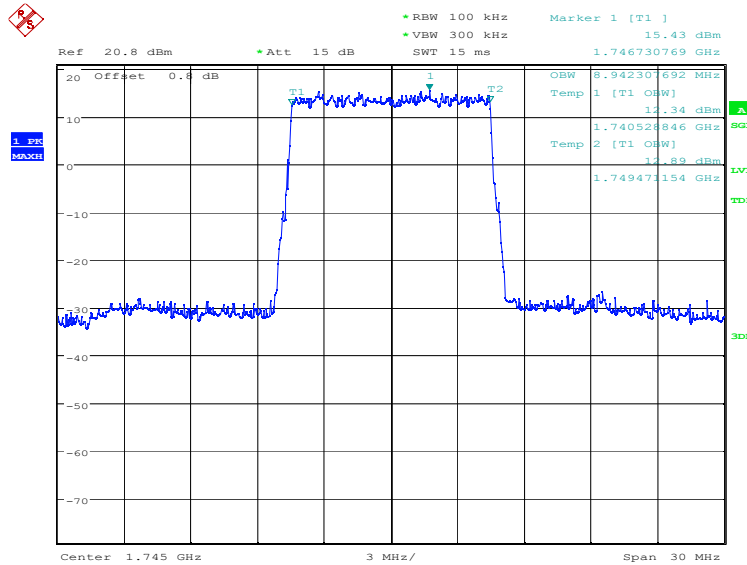


Date: 4.MAR.2022 10:53:57

LTE band 66, 10MHz (99%)

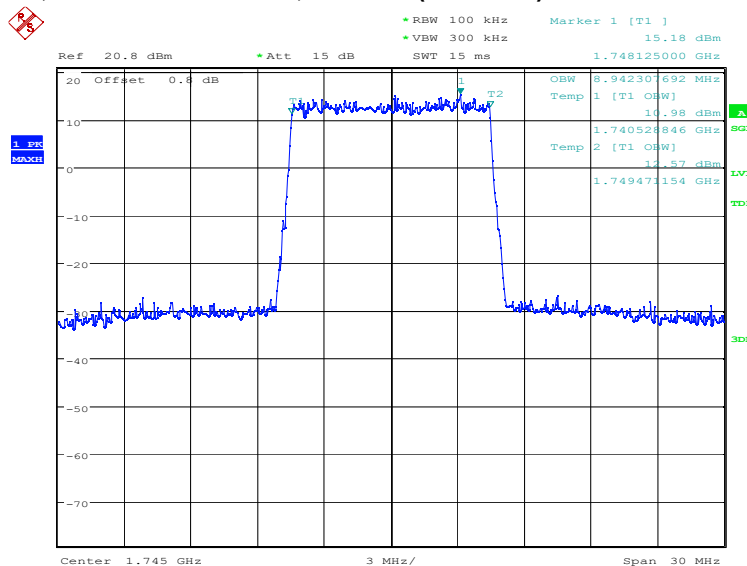
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 4.MAR.2022 10:54:40

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

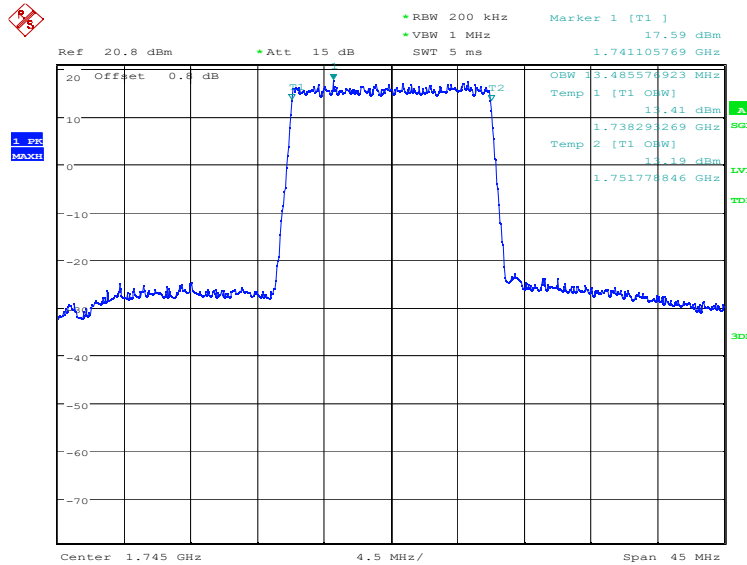


Date: 4.MAR.2022 10:55:20

LTE band 66, 15MHz (99%)

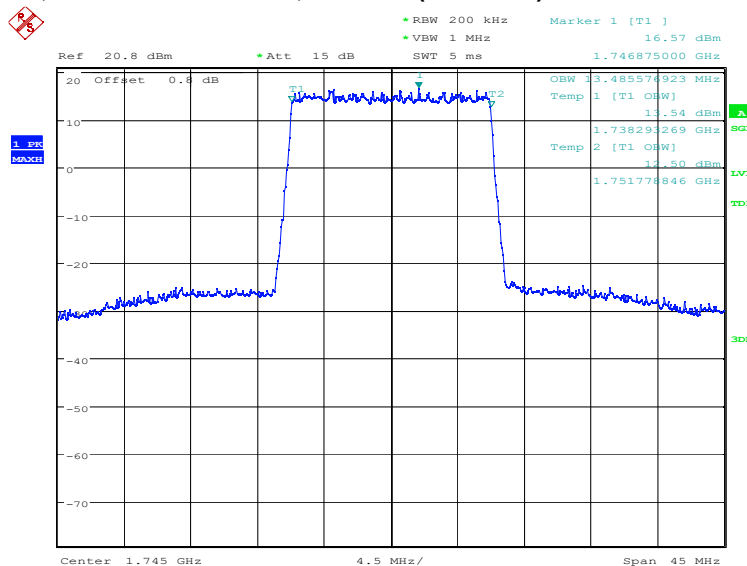
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 4.MAR.2022 10:56:04

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

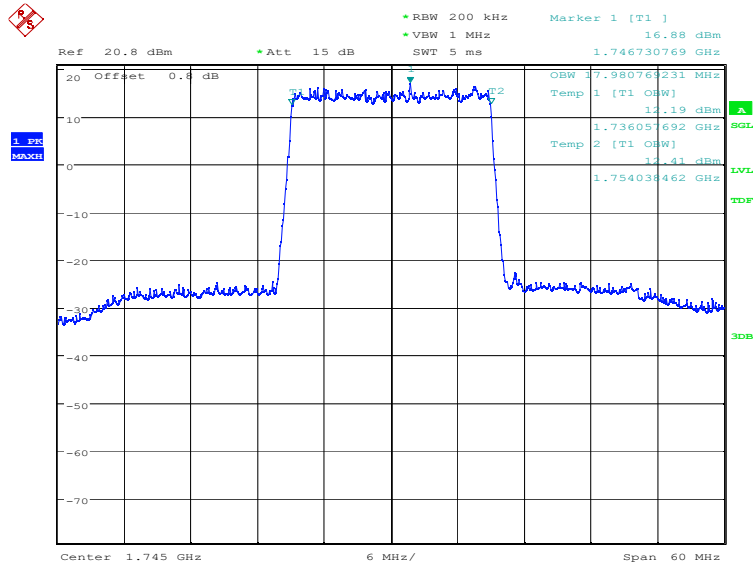


Date: 4.MAR.2022 10:56:43

LTE band 66, 20MHz (99%)

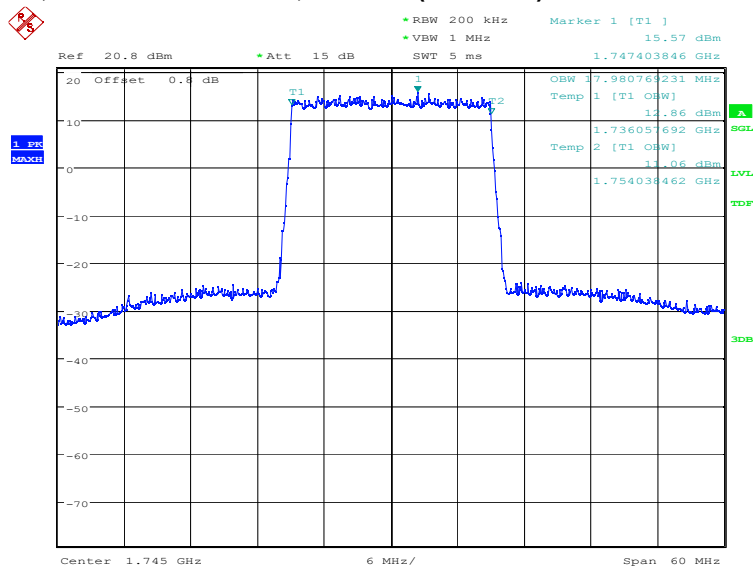
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	17980.77	17980.77

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



Date: 4.MAR.2022 10:57:26

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

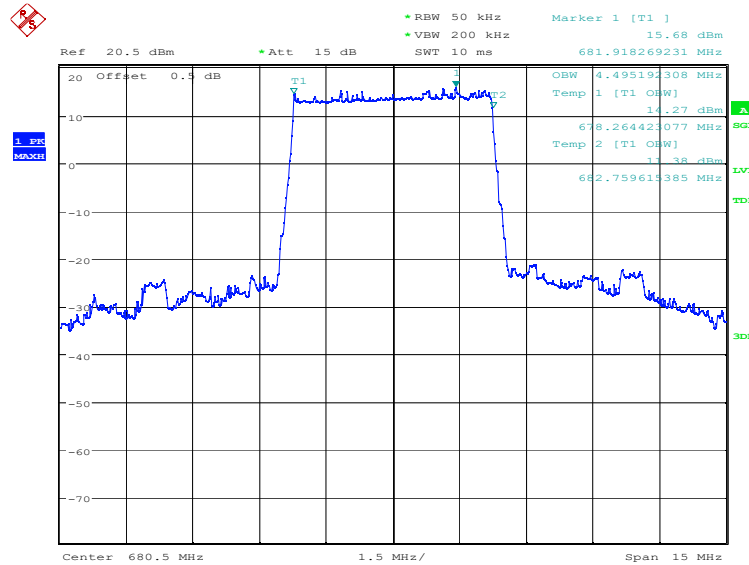


Date: 4.MAR.2022 10:58:06

LTE band 71, 5MHz (99%)

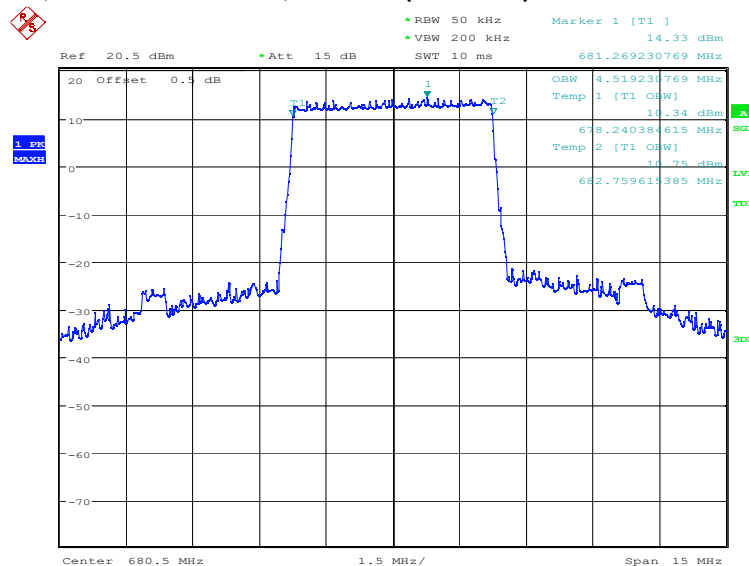
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	4495.19	4519.23

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



Date: 4.MAR.2022 13:34:03

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

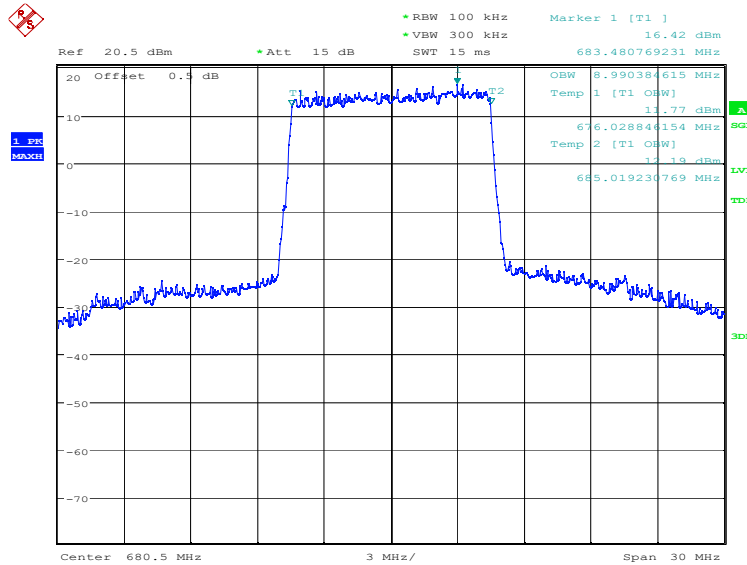


Date: 4.MAR.2022 13:34:43

LTE band 71, 10MHz (99%)

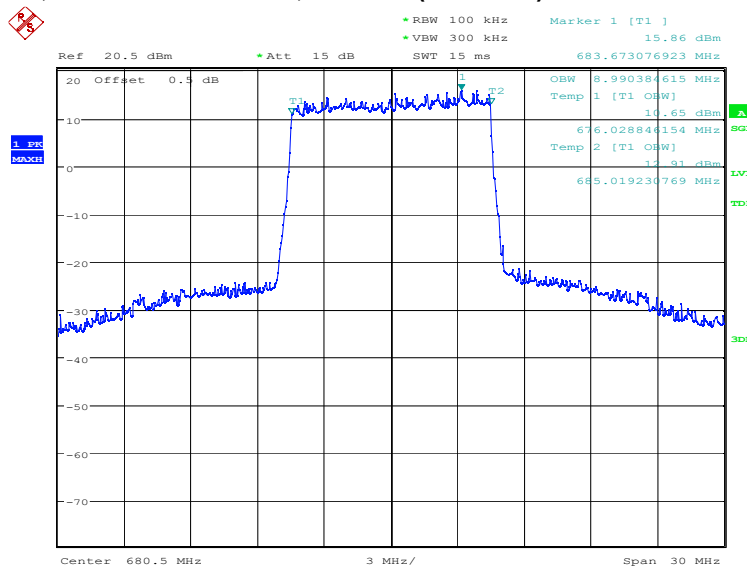
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	8990.38	8990.38

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



Date: 4.MAR.2022 13:35:28

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

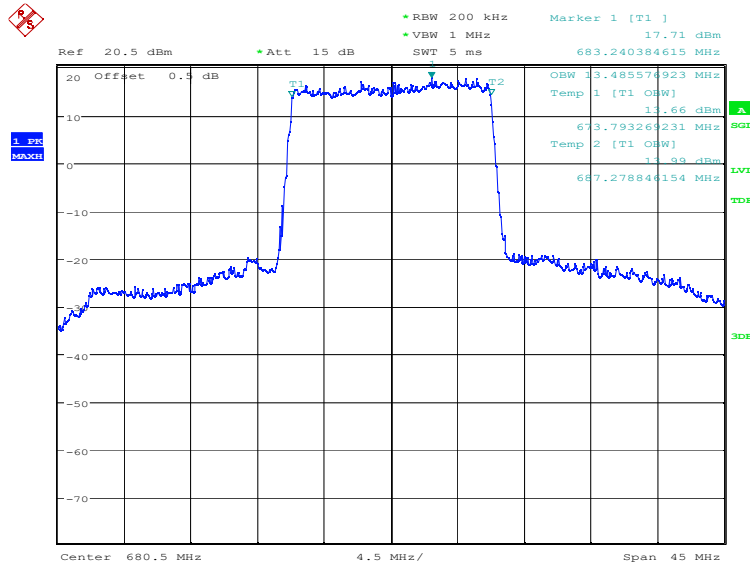


Date: 4.MAR.2022 13:36:07

LTE band 71, 15MHz (99%)

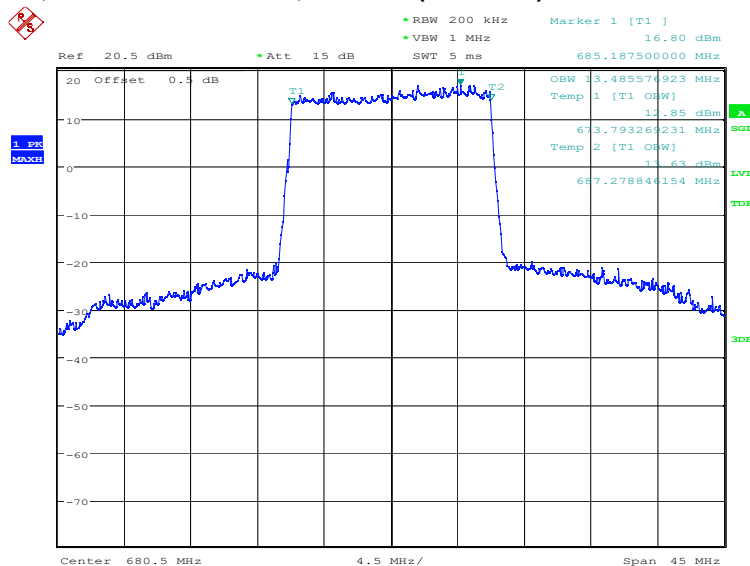
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 4.MAR.2022 13:36:52

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

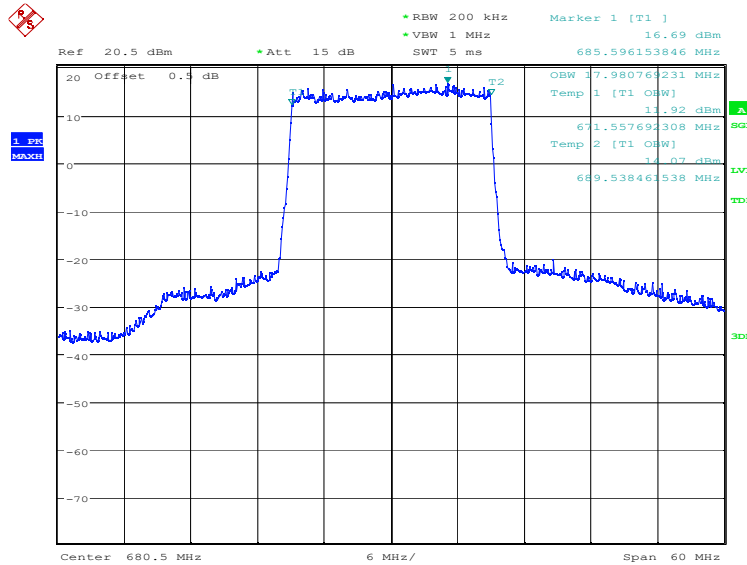


Date: 4.MAR.2022 13:37:31

LTE band 71, 20MHz (99%)

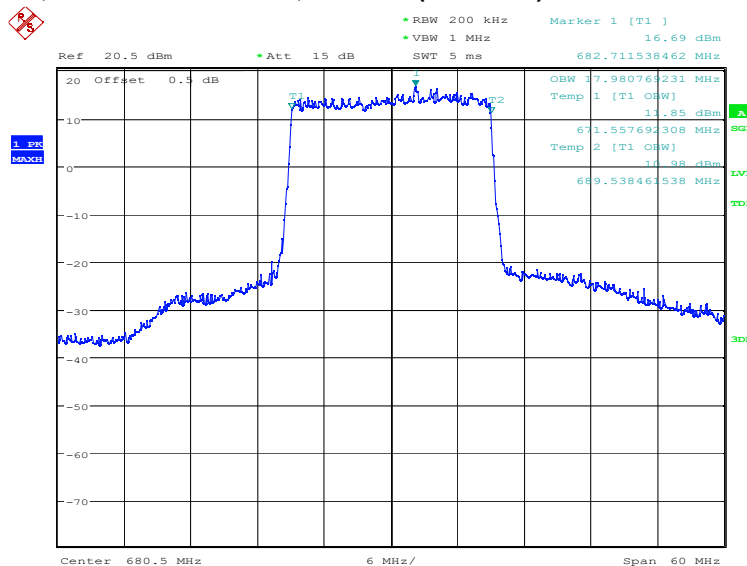
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	17980.77	17980.77

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



Date: 4.MAR.2022 13:38:15

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

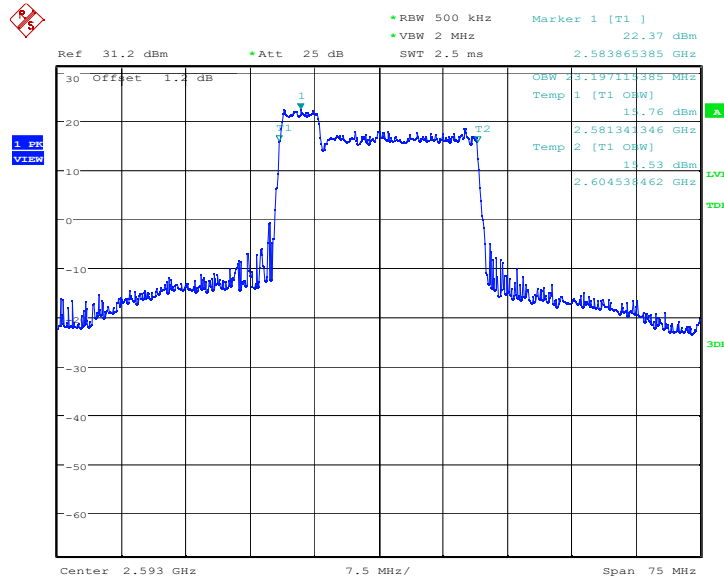


Date: 4.MAR.2022 13:38:55

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

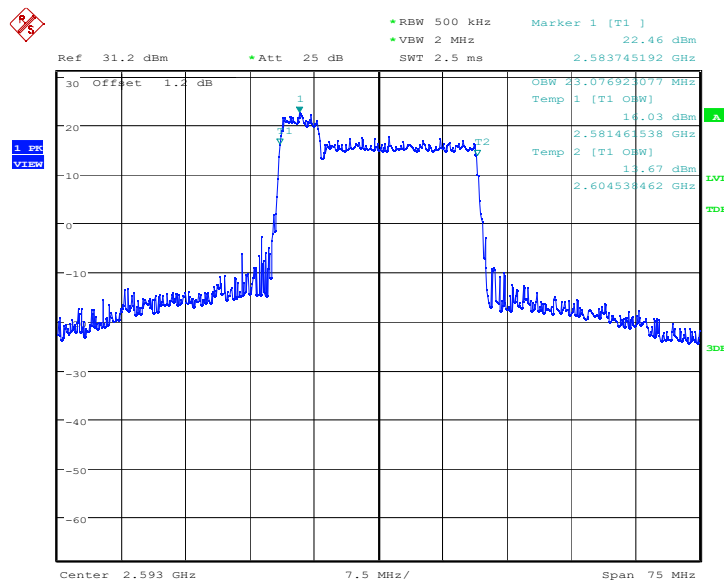
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2583.8	23.197	23.077

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



Date: 9.MAR.2022 15:05:10

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

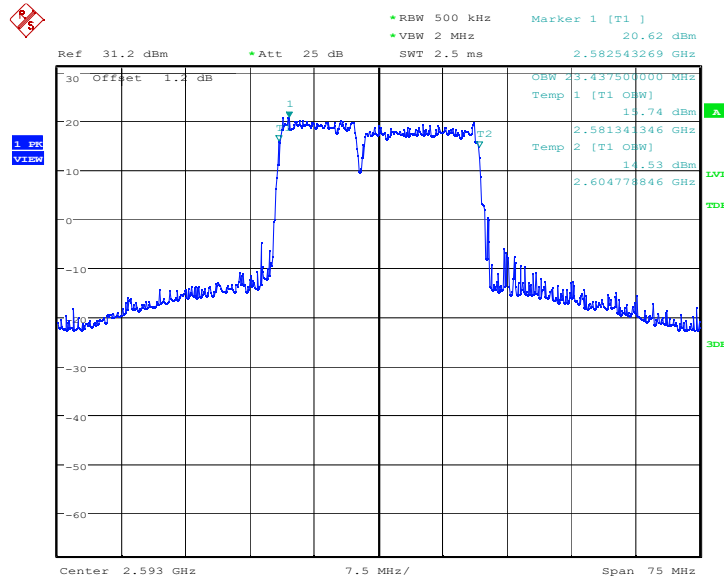


Date: 9.MAR.2022 15:05:33

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

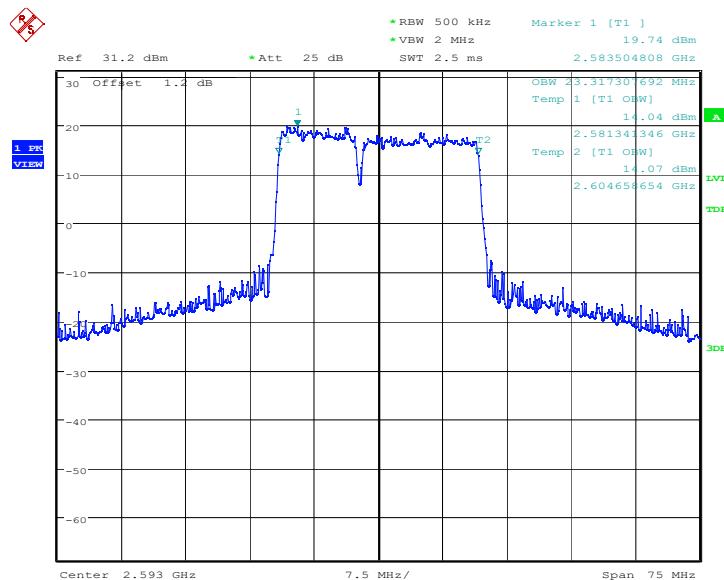
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2585.9	23.438	23.317

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



Date: 9.MAR.2022 15:06:39

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

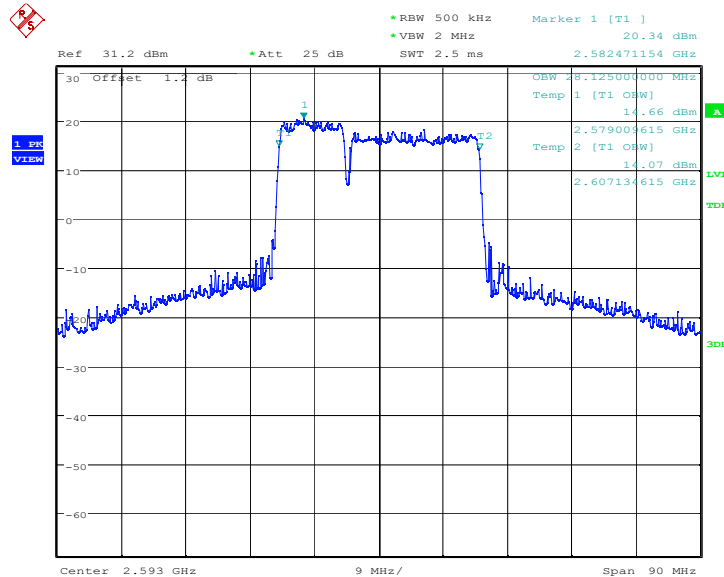


Date: 9.MAR.2022 15:07:02

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

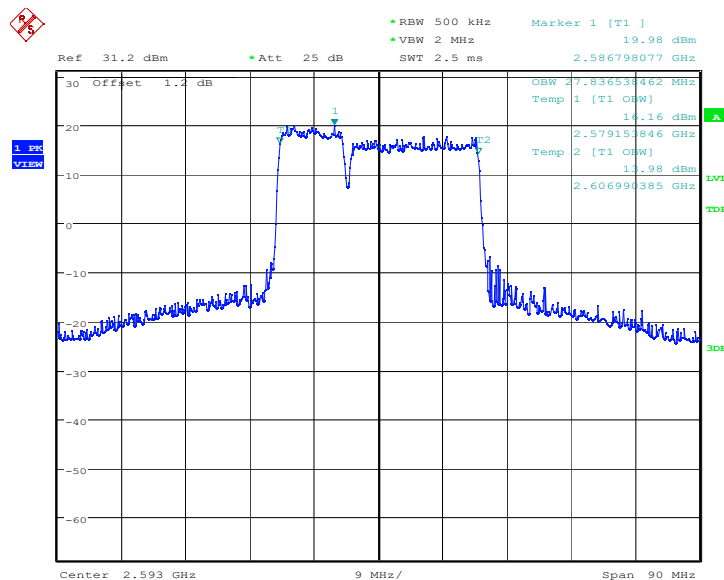
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2583.6	28.125	27.837

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



Date: 9.MAR.2022 15:08:05

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

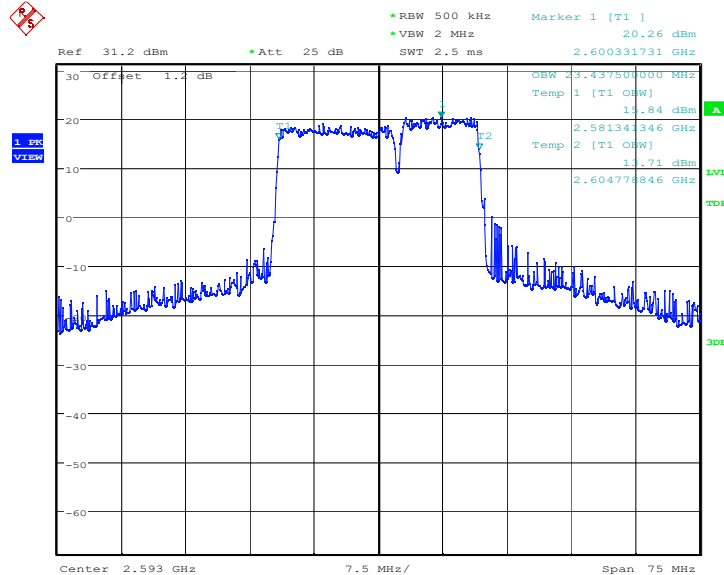


Date: 9.MAR.2022 15:08:28

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

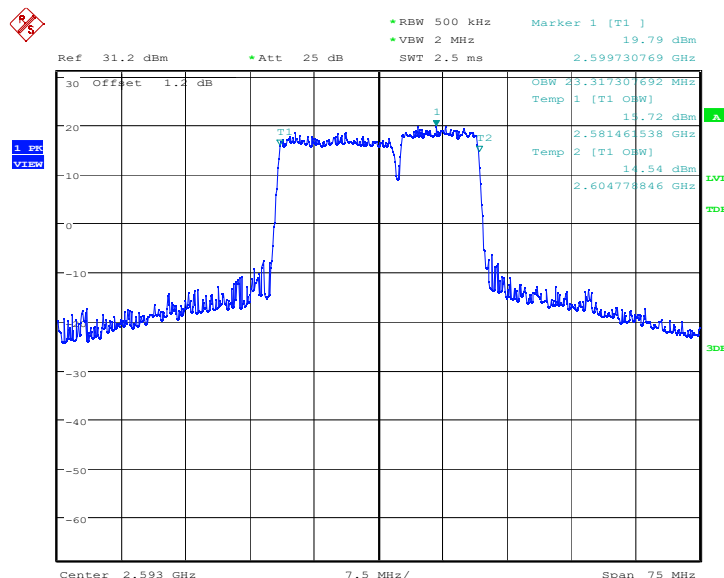
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2588.1	23.438	23.317

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



Date: 9.MAR.2022 15:09:34

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

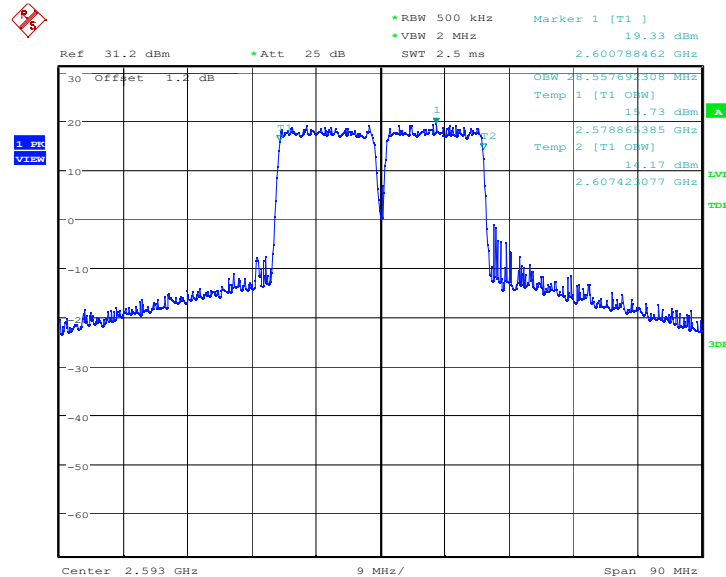


Date: 9.MAR.2022 15:09:57

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

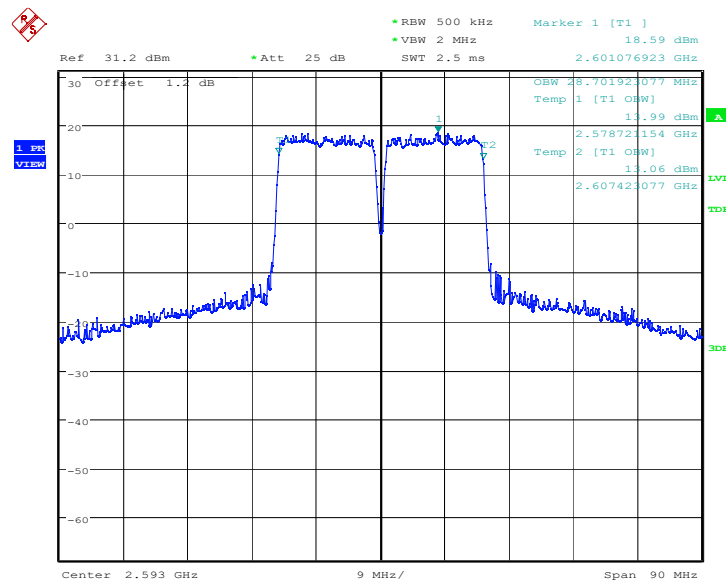
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2585.5	28.558	28.702

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



Date: 9.MAR.2022 15:10:59

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

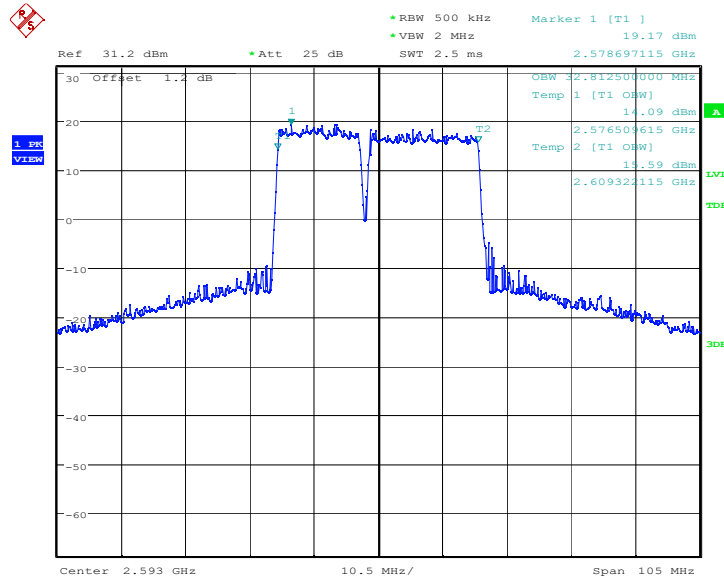


Date: 9.MAR.2022 15:11:23

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

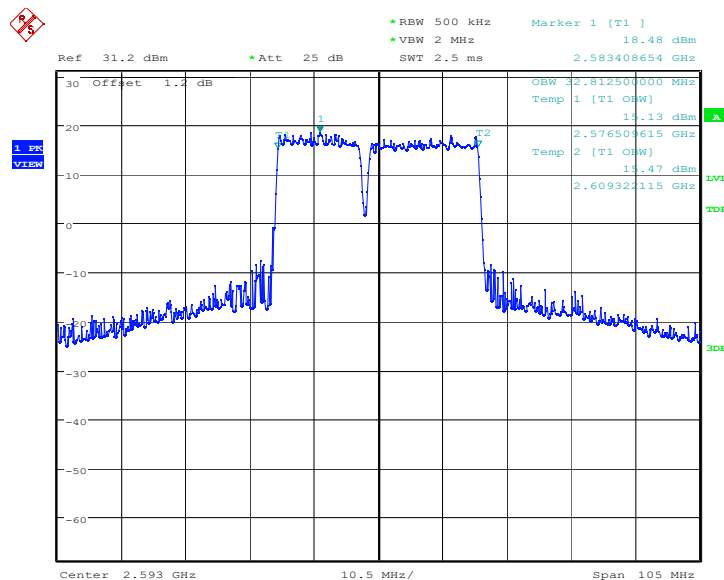
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2583.3	32.812	32.812

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



Date: 9.MAR.2022 15:12:25

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

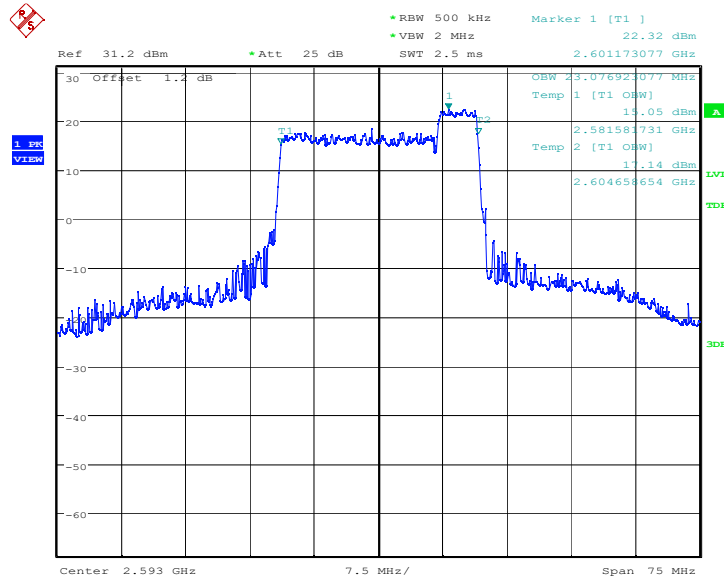


Date: 9.MAR.2022 15:12:49

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

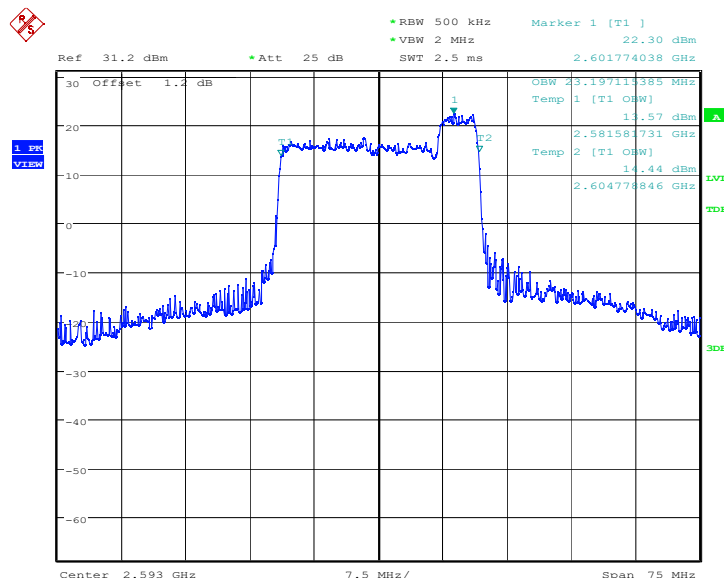
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2590.5	23.077	23.197

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



Date: 9.MAR.2022 15:13:54

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

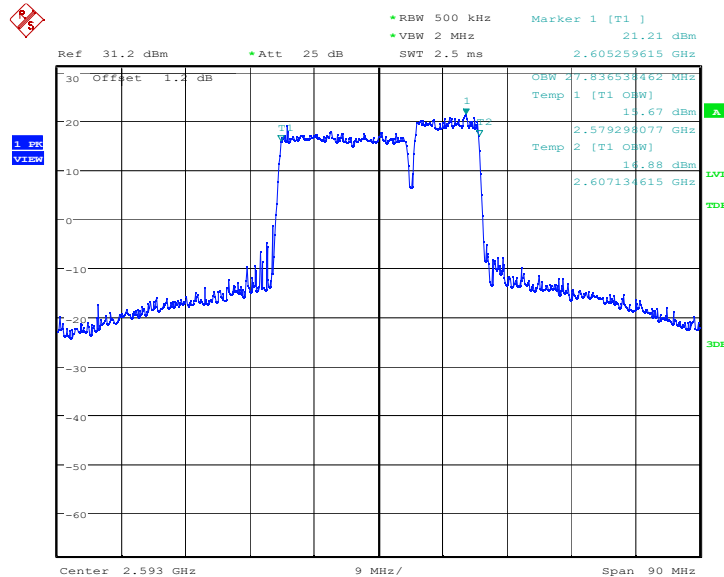


Date: 9.MAR.2022 15:14:18

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

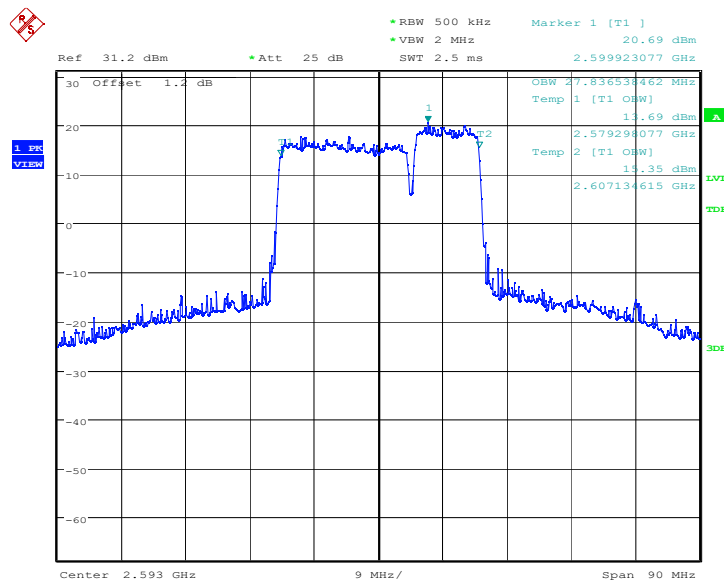
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2588.1	27.837	27.837

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



Date: 9.MAR.2022 15:15:20

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

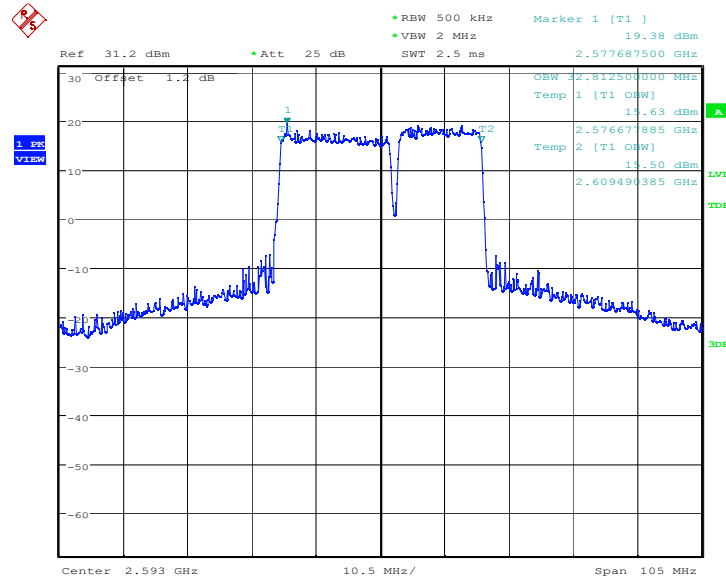


Date: 9.MAR.2022 15:15:43

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

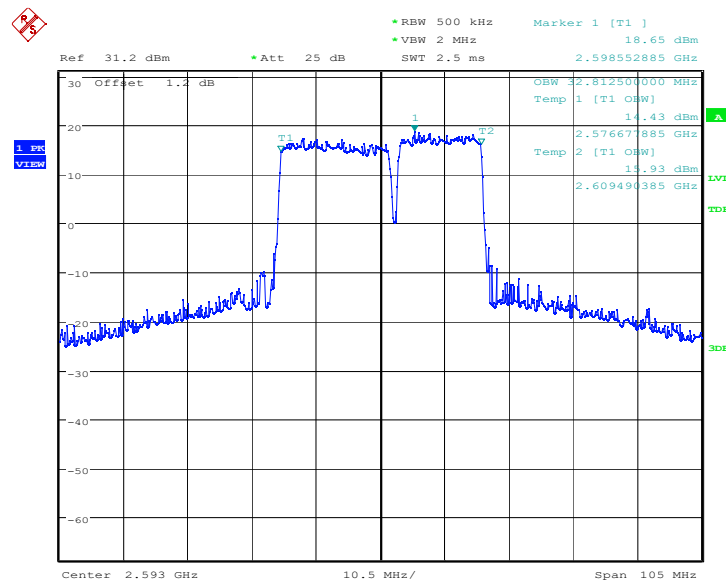
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2585.6	32.812	32.812

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



Date: 9.MAR.2022 15:16:46

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

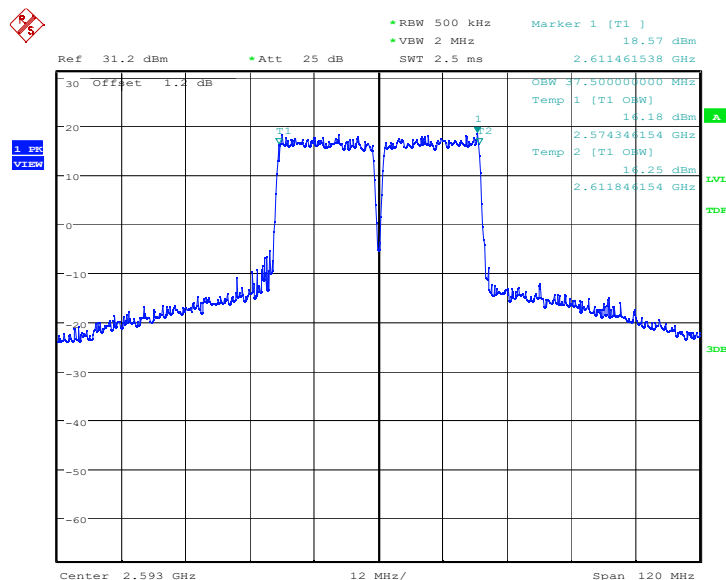


Date: 9.MAR.2022 15:17:09

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

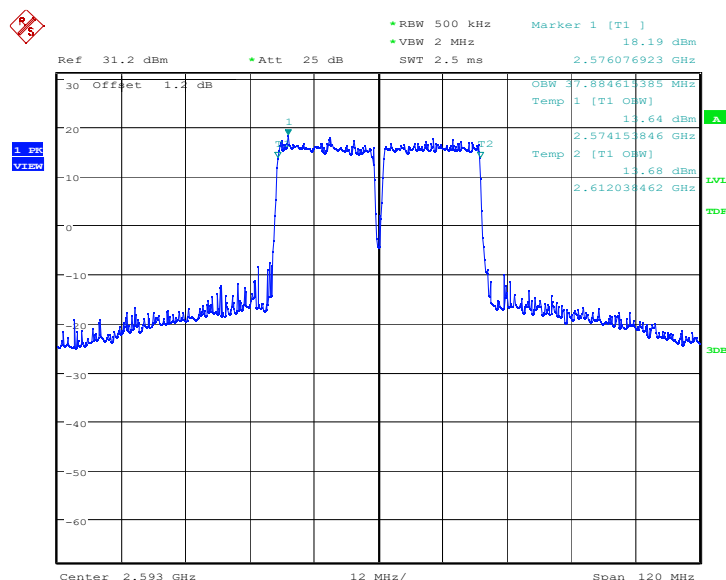
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2583.1	37.500	37.885

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



Date: 9.MAR.2022 15:18:12

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

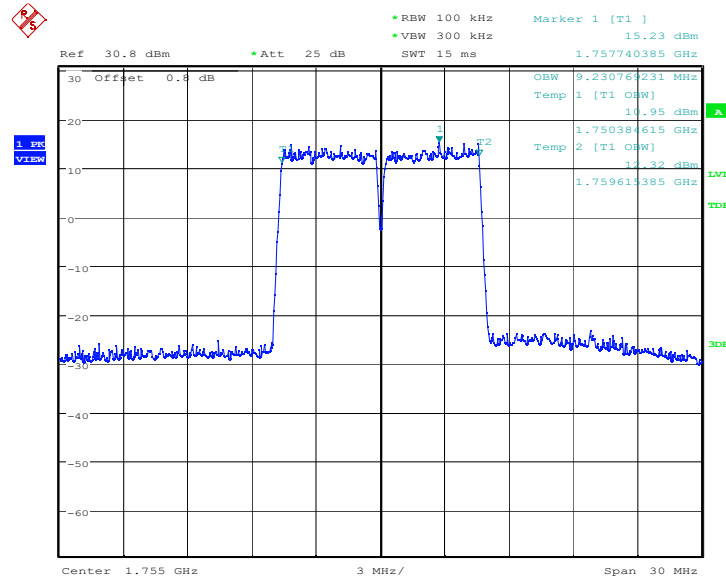


Date: 9.MAR.2022 15:18:35

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

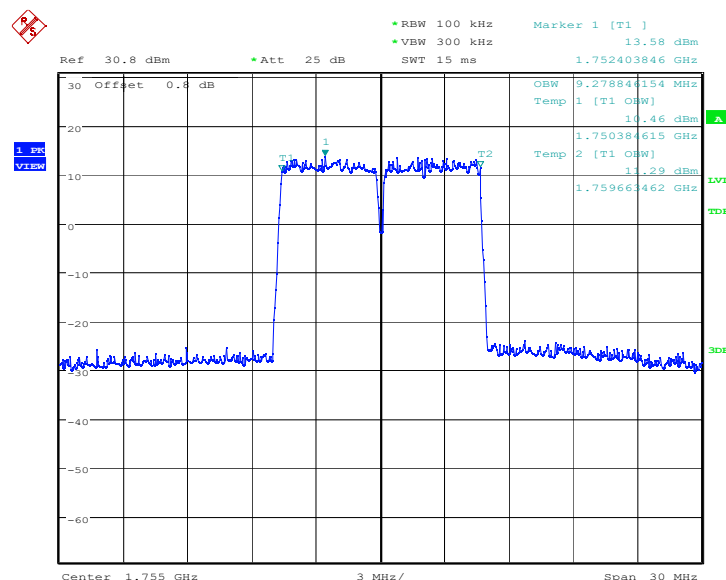
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1752.6	9.231	9.279

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



Date: 9.MAR.2022 16:12:00

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

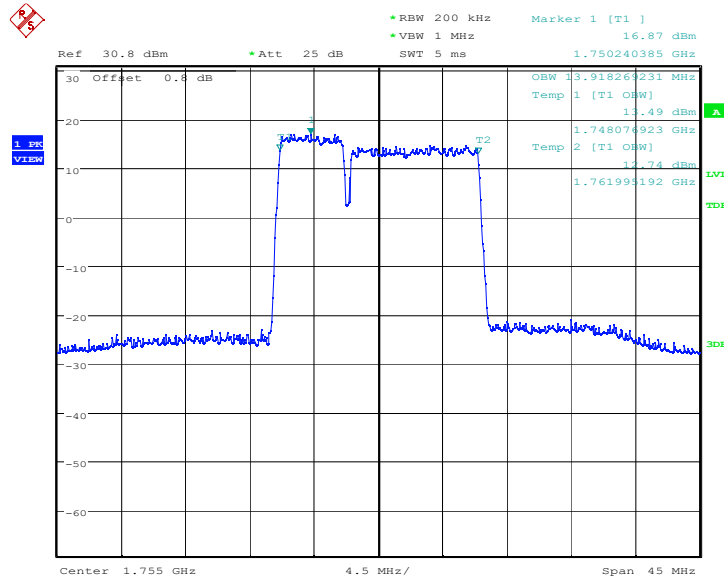


Date: 9.MAR.2022 16:12:23

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

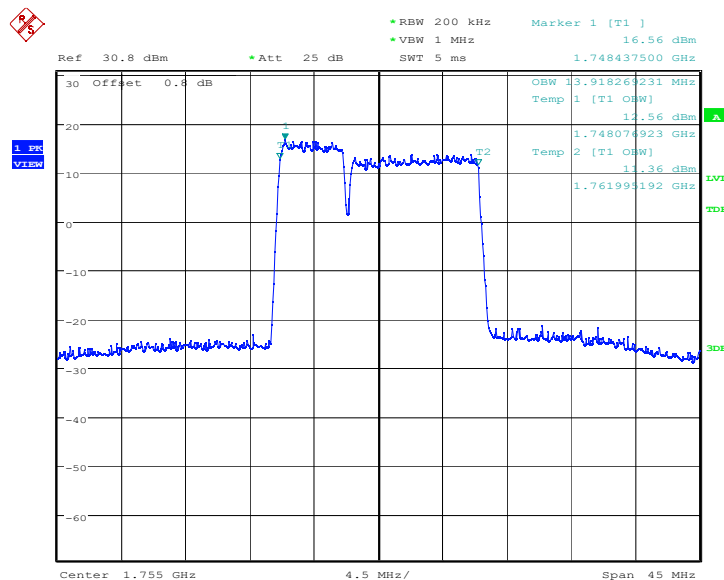
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1750.3	13.918	13.918

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



Date: 9.MAR.2022 16:13:26

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

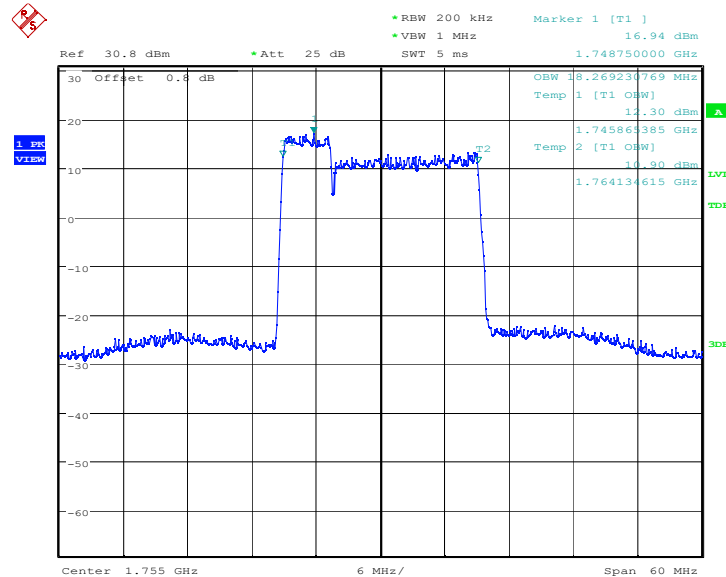


Date: 9.MAR.2022 16:13:49

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

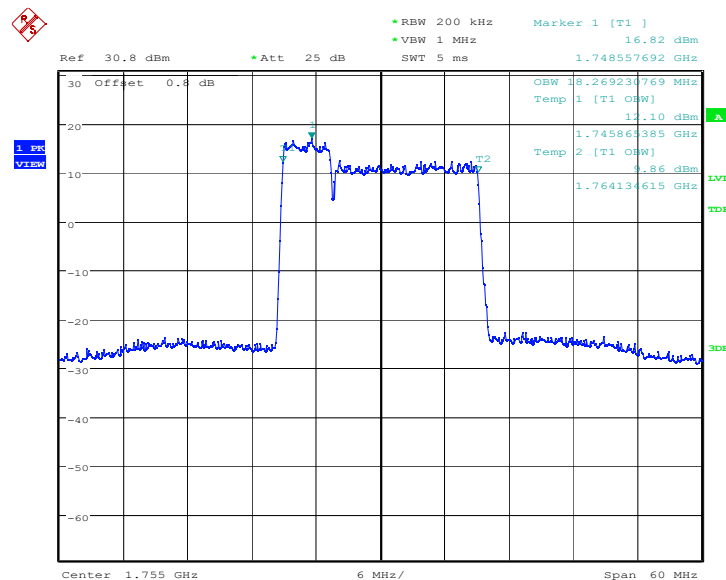
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1748.1	18.269	18.269

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



Date: 9.MAR.2022 16:14:52

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

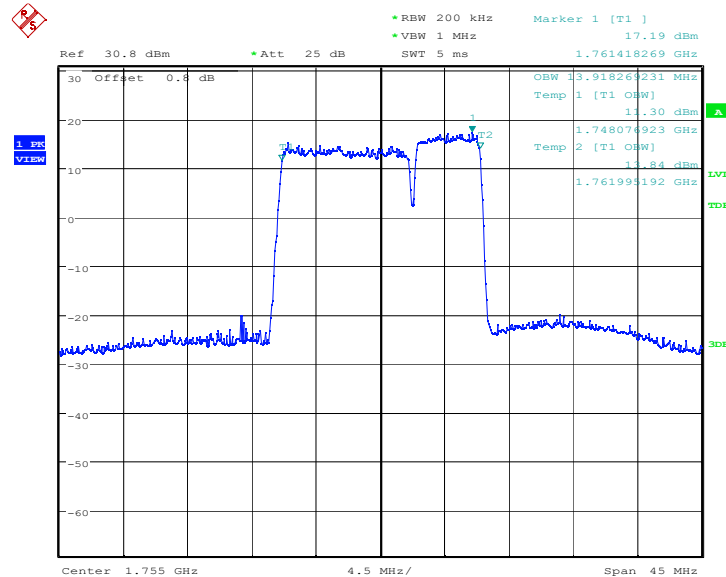


Date: 9.MAR.2022 16:15:15

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

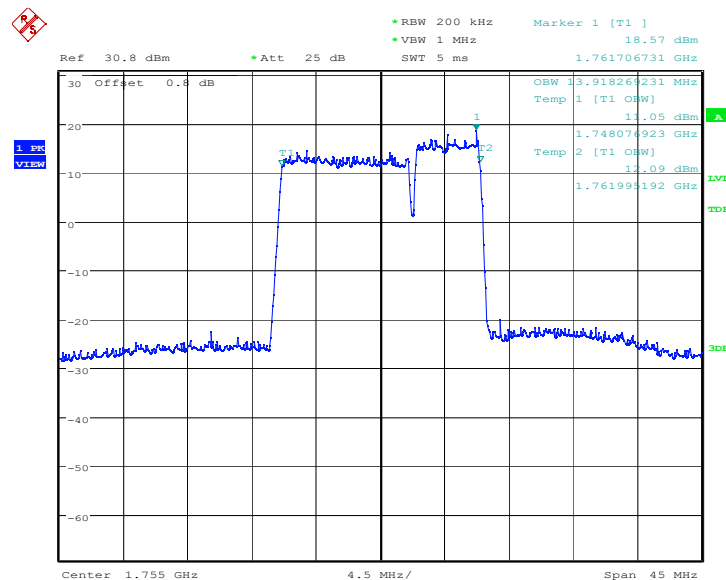
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1752.5	13.918	13.918

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



Date: 9.MAR.2022 16:16:20

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

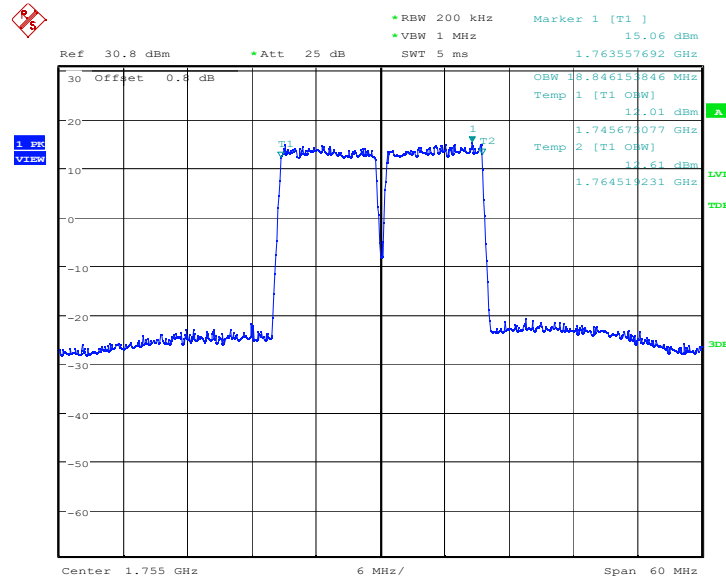


Date: 9.MAR.2022 16:16:43

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

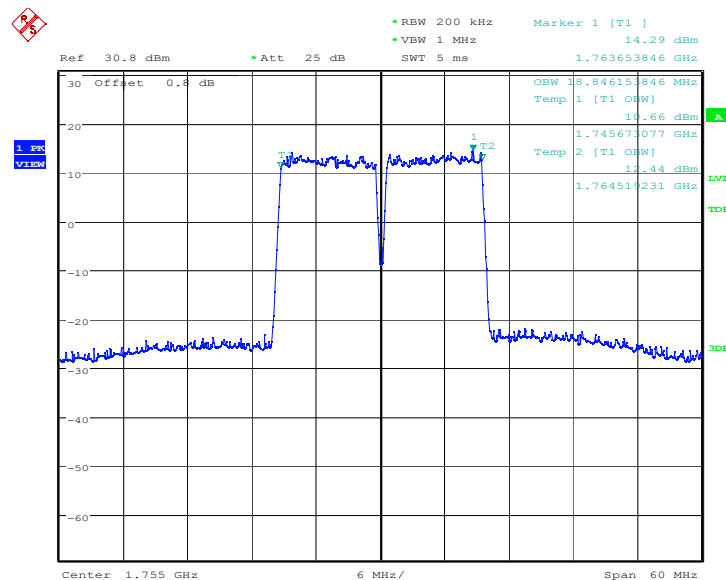
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1750.1	18.846	18.846

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



Date: 9.MAR.2022 16:17:39

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

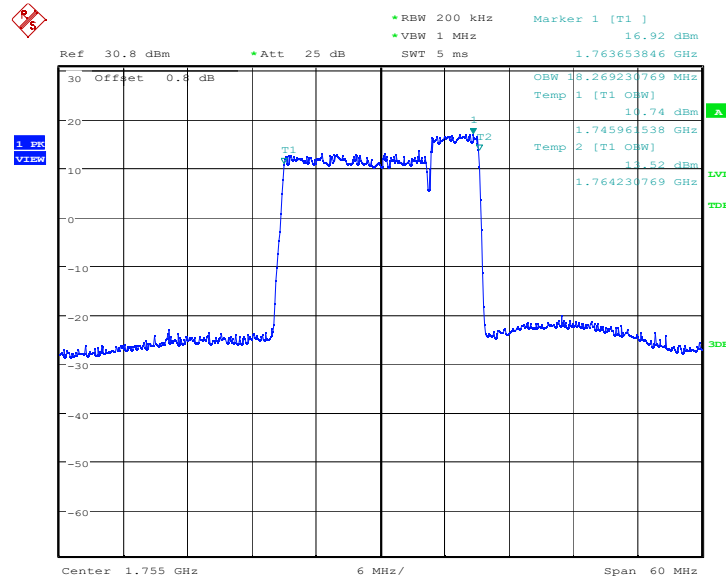


Date: 9.MAR.2022 16:18:02

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

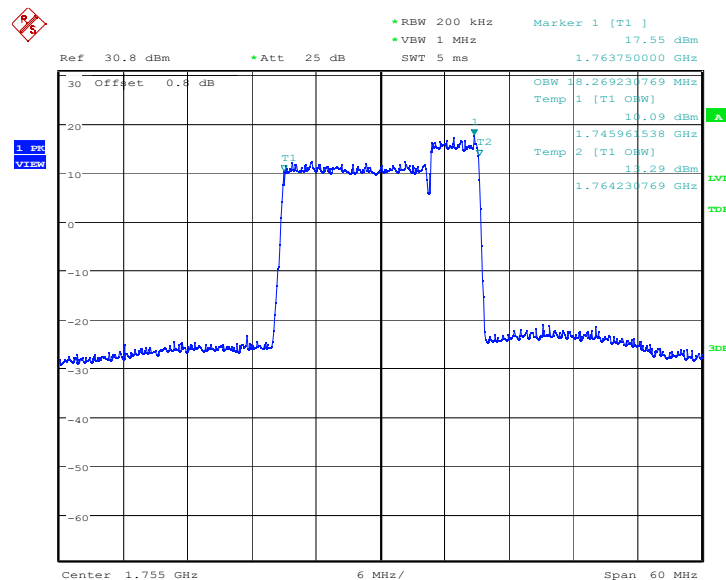
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1752.6	18.269	18.269

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



Date: 9.MAR.2022 16:19:01

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

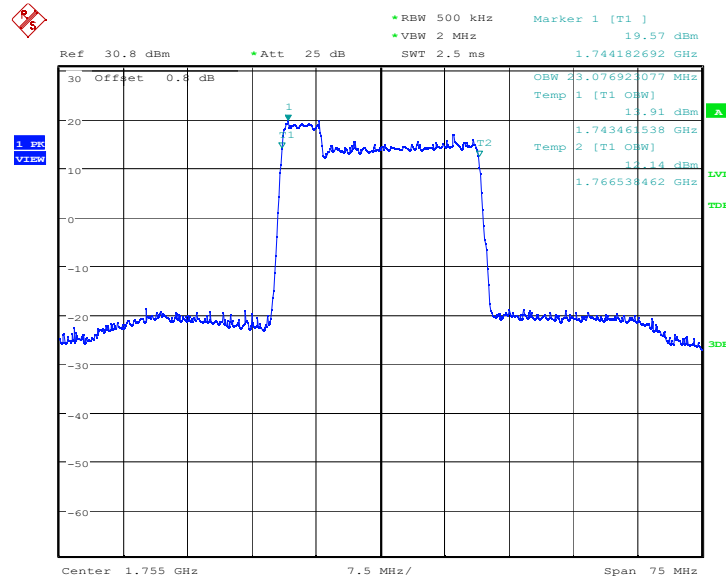


Date: 9.MAR.2022 16:19:24

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

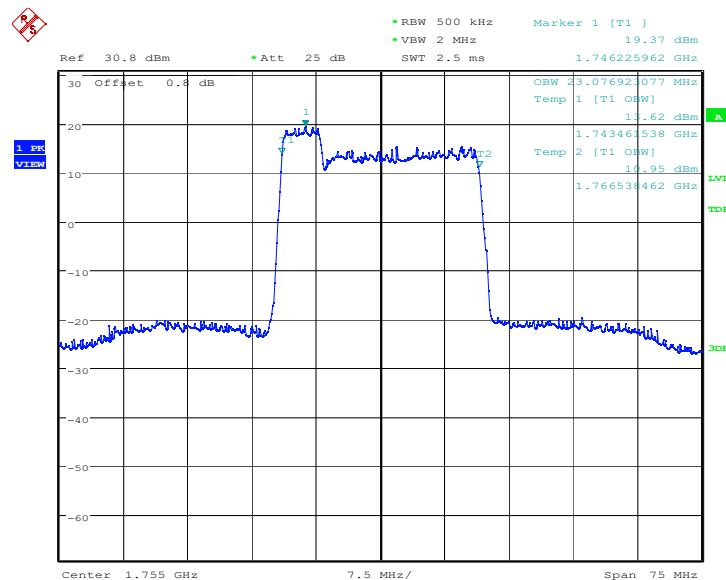
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1745.8	23.077	23.077

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



Date: 10.MAR.2022 10:43:05

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

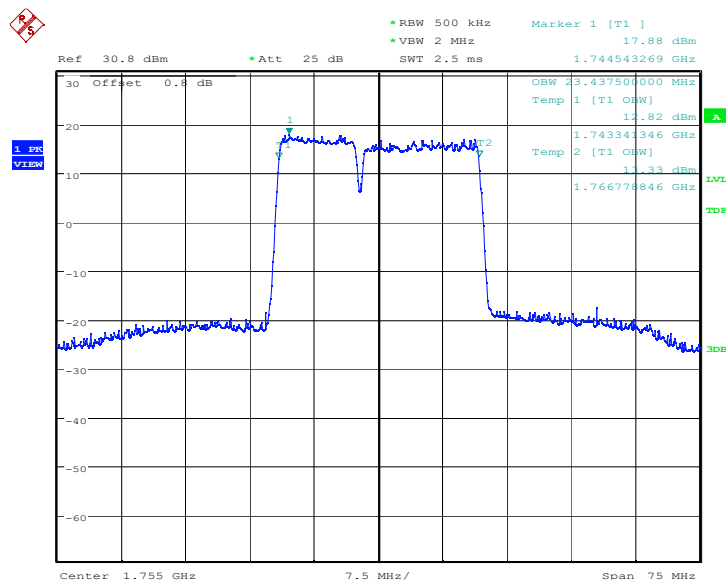


Date: 10.MAR.2022 10:43:32

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

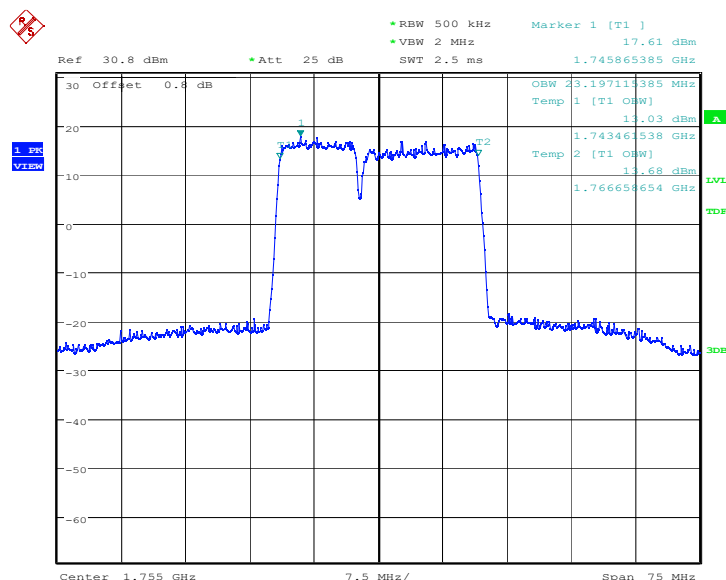
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1747.9	23.438	23.197

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



Date: 10.MAR.2022 10:44:21

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

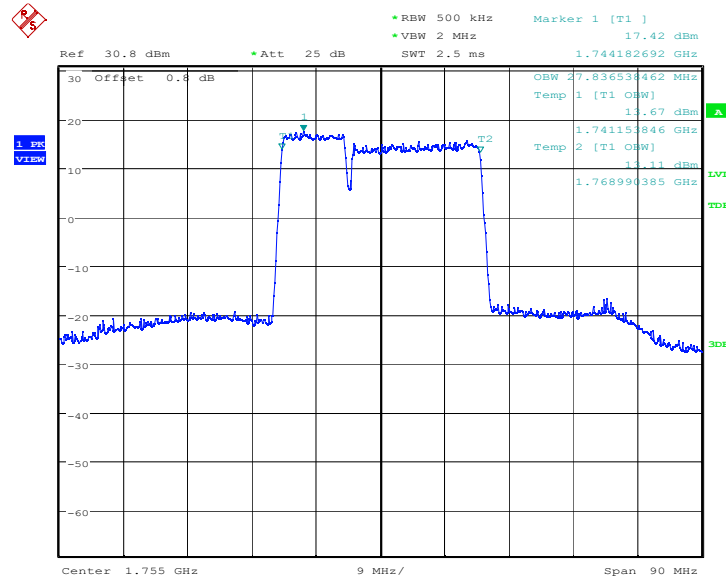


Date: 10.MAR.2022 10:45:06

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

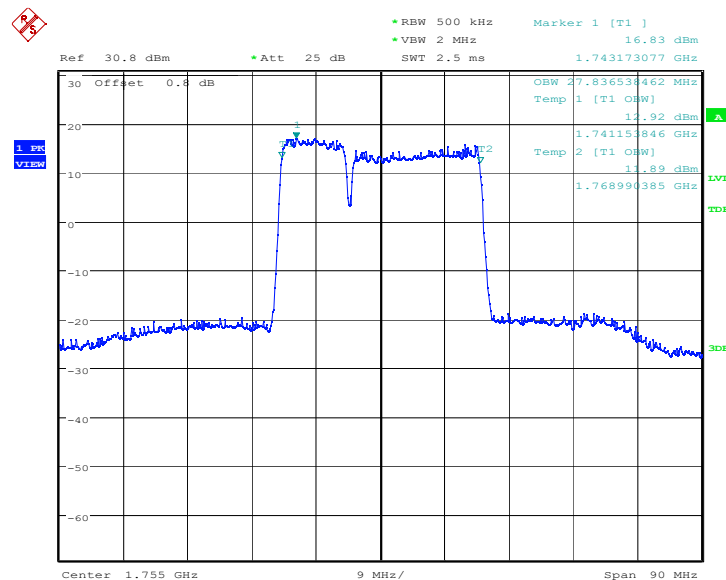
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1745.6	27.837	27.837

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



Date: 10.MAR.2022 11:20:48

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

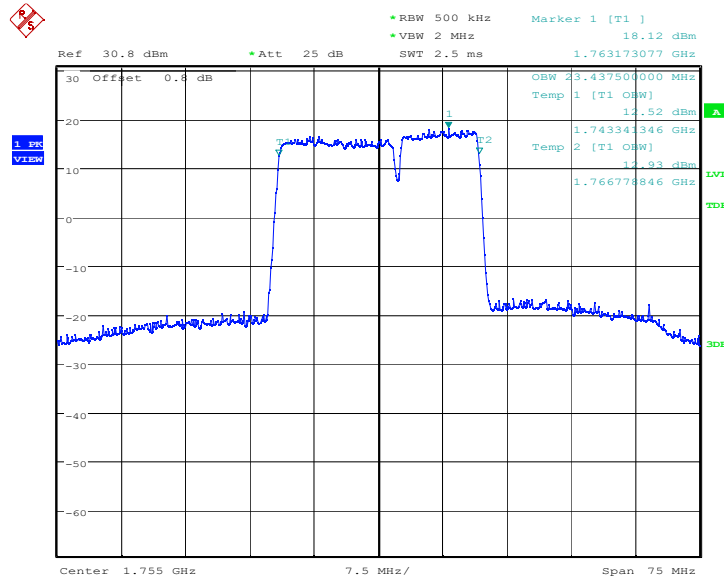


Date: 10.MAR.2022 11:21:11

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

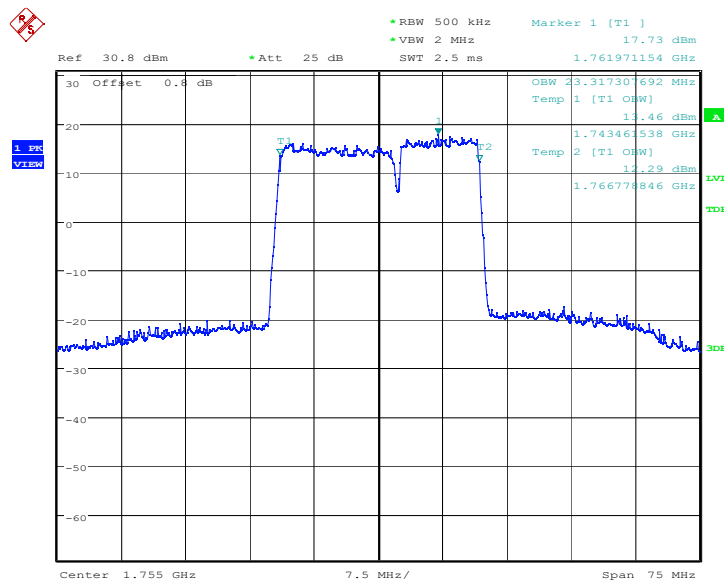
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1750.1	23.438	23.317

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



Date: 10.MAR.2022 13:07:21

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

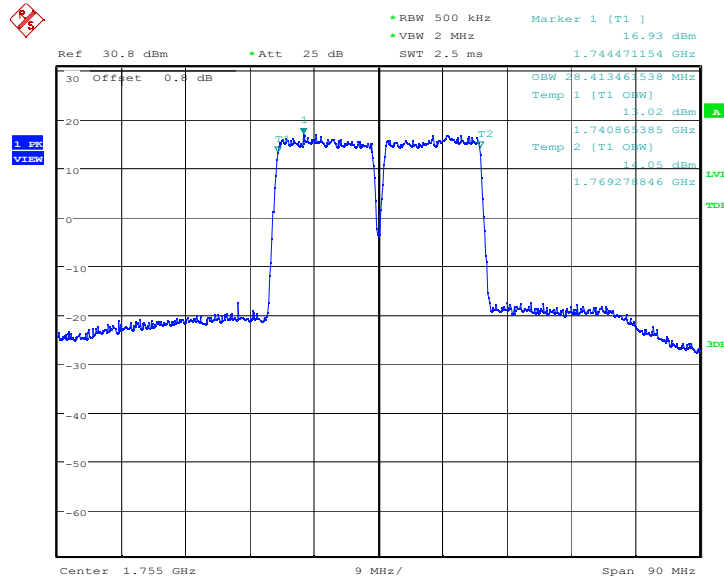


Date: 10.MAR.2022 13:07:44

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

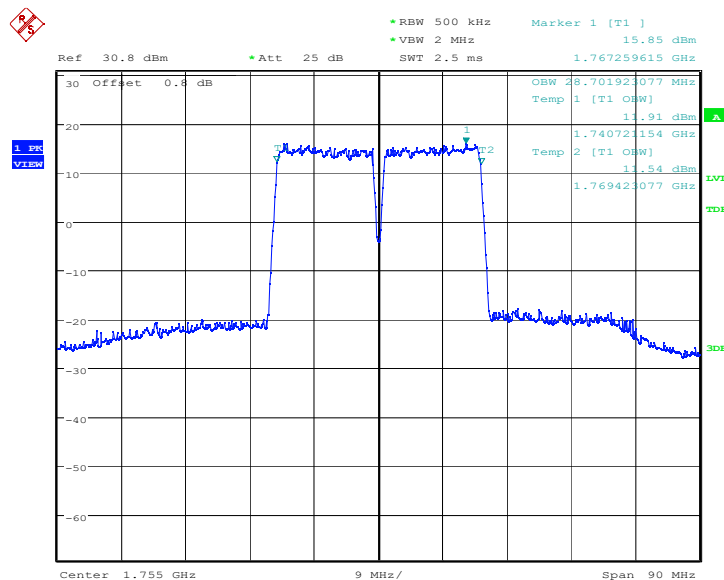
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1747.5	28.413	28.702

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



Date: 10.MAR.2022 12:17:28

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

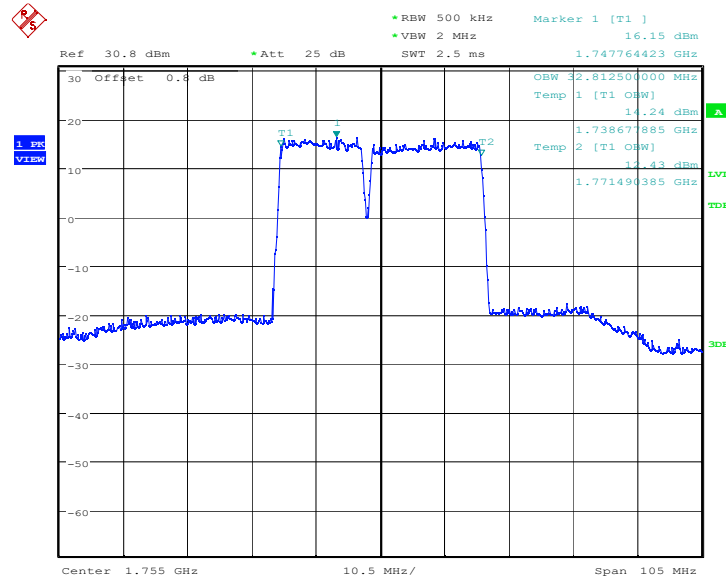


Date: 10.MAR.2022 12:17:51

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

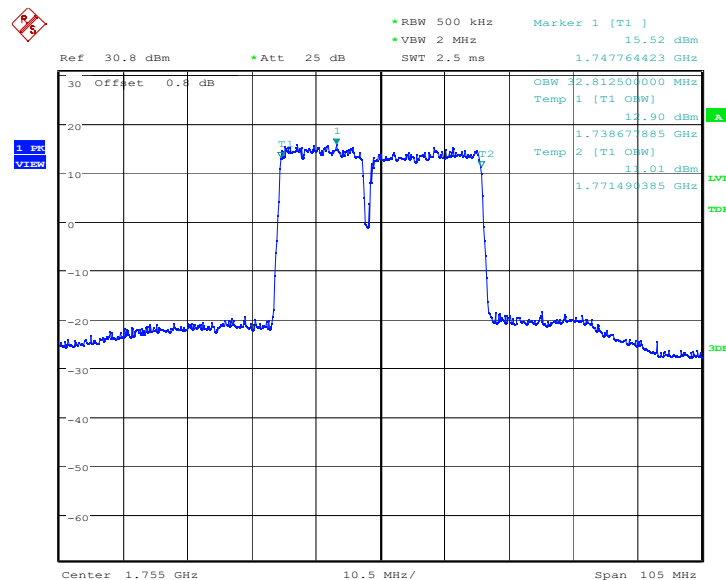
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1745.3	32.812	32.812

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



Date: 10.MAR.2022 12:18:44

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

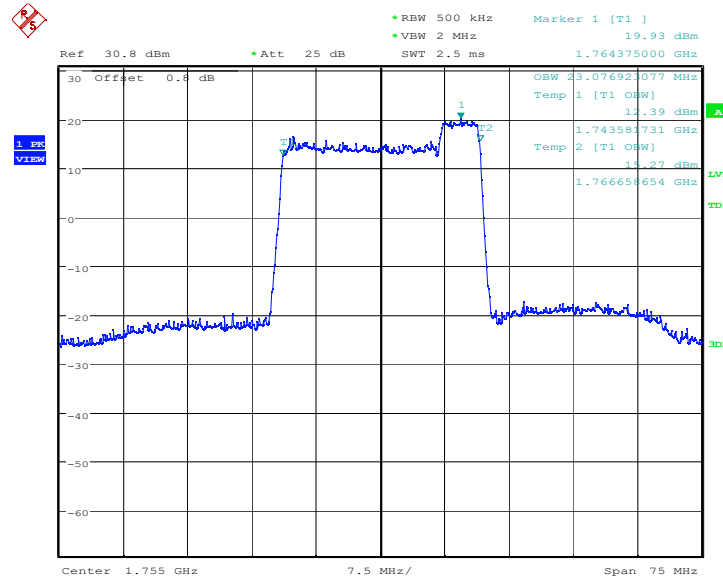


Date: 10.MAR.2022 12:19:10

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

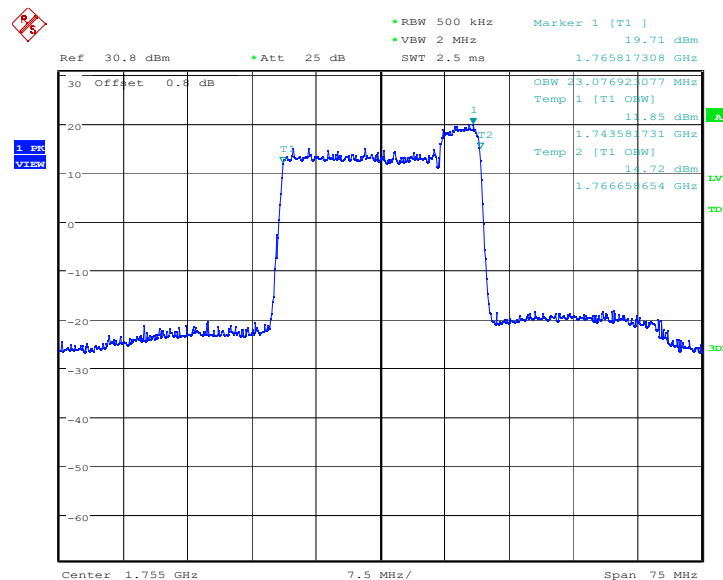
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1752.5	23.077	23.077

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



Date: 10.MAR.2022 12:20:17

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

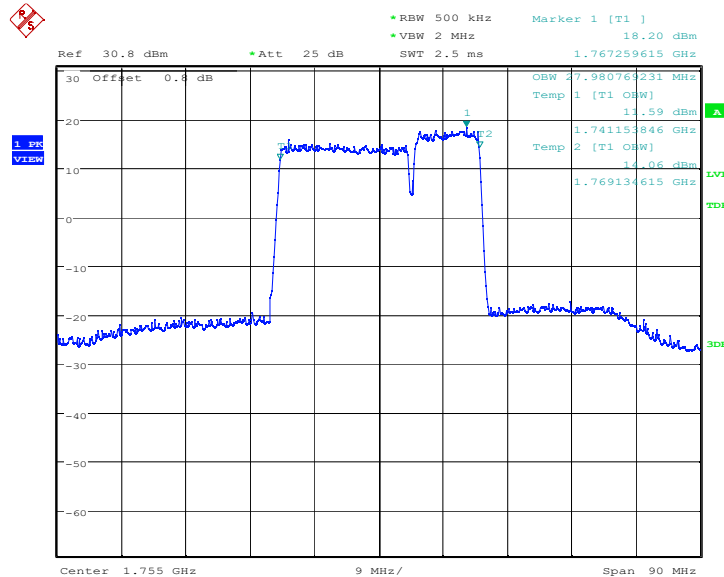


Date: 10.MAR.2022 12:20:40

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

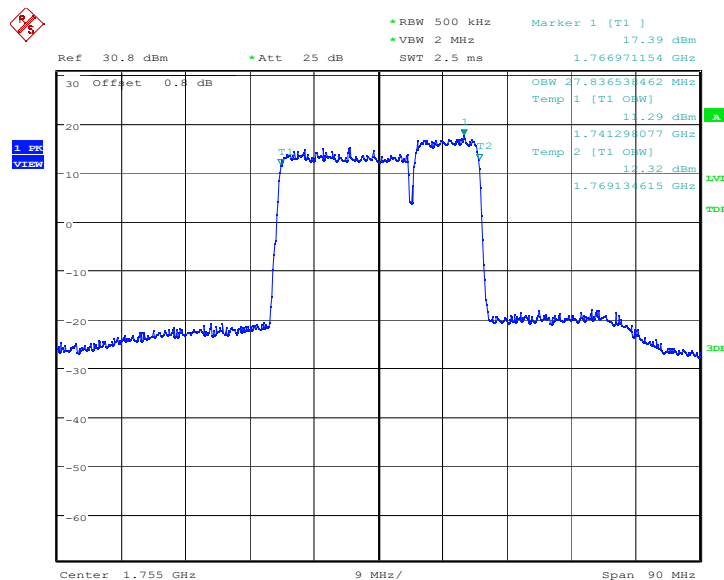
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1750.1	27.981	27.837

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



Date: 10.MAR.2022 13:09:16

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

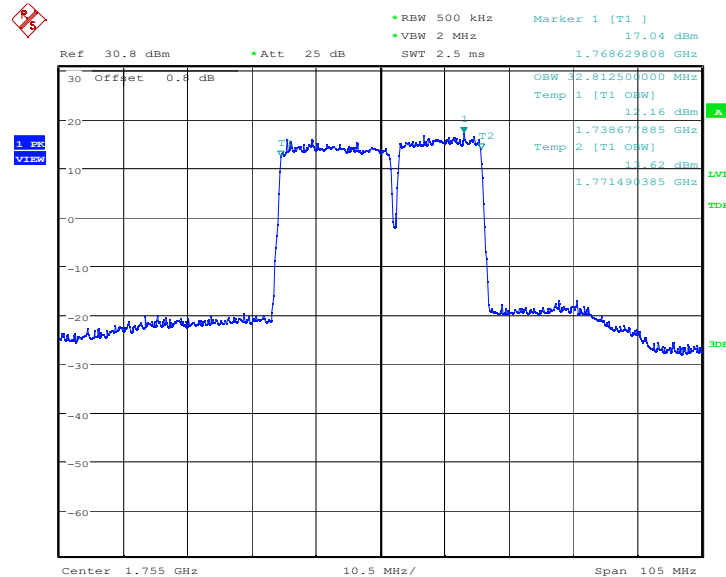


Date: 10.MAR.2022 13:09:39

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

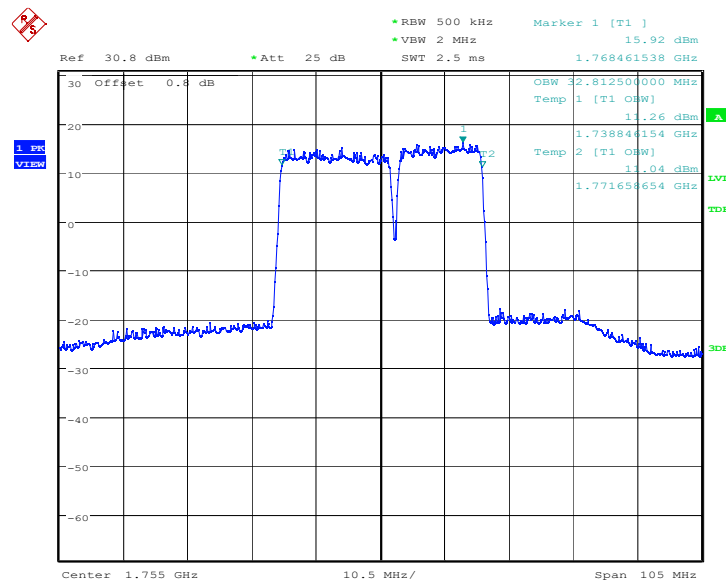
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1747.6	32.812	32.812

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



Date: 10.MAR.2022 13:11:02

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

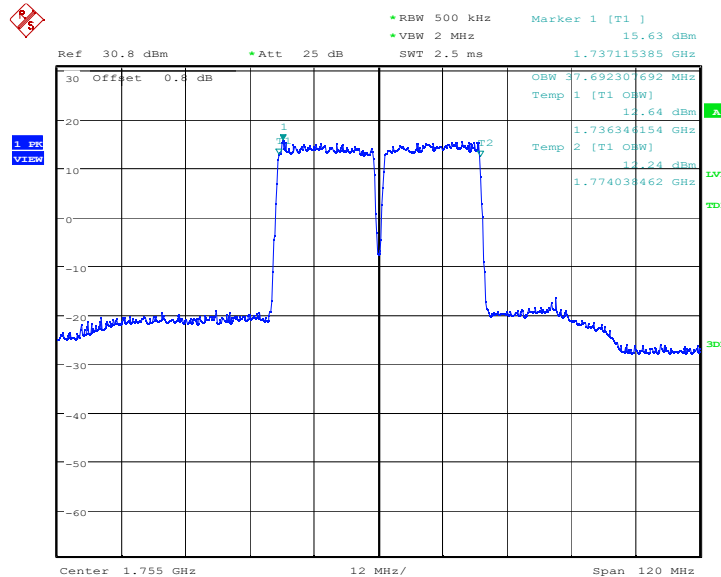


Date: 10.MAR.2022 13:11:25

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

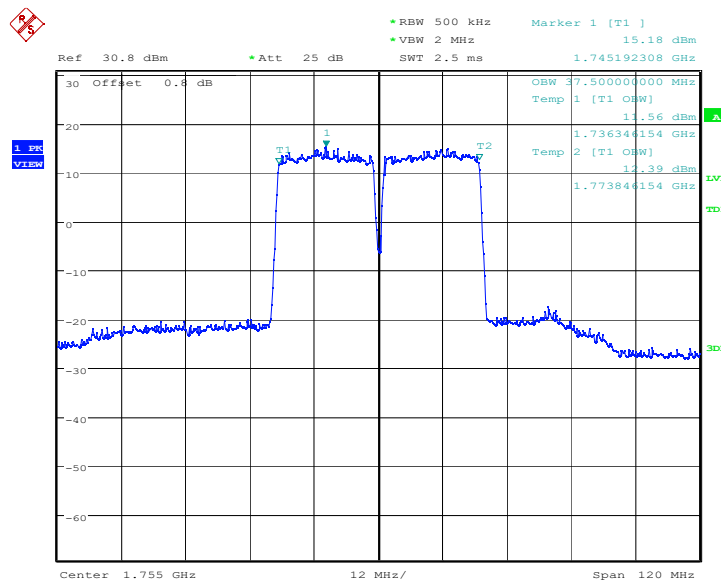
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1745.1	37.692	37.500

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



Date: 10.MAR.2022 13:12:37

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



Date: 10.MAR.2022 13:13:22

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.

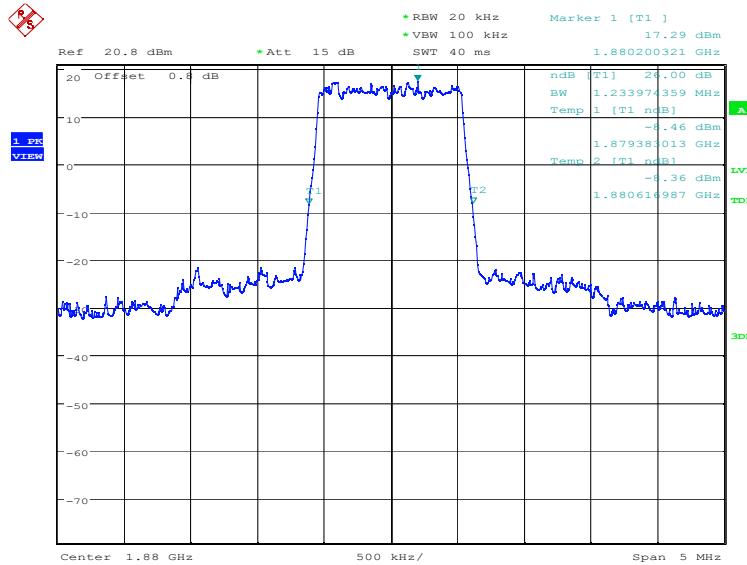
The measurement method is from ANSI C63.26:

- 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 2, 1.4MHz (-26dBc)

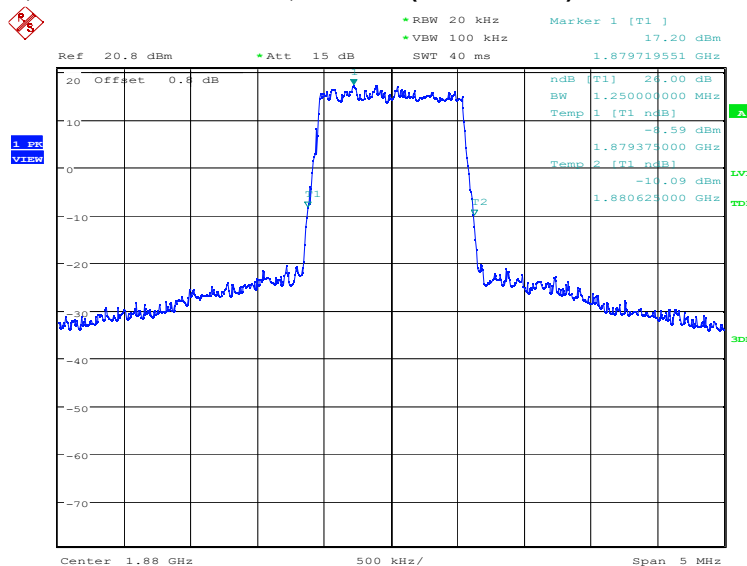
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	1233.97	1250.00

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



Date: 7.APR.2022 11:45:39

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

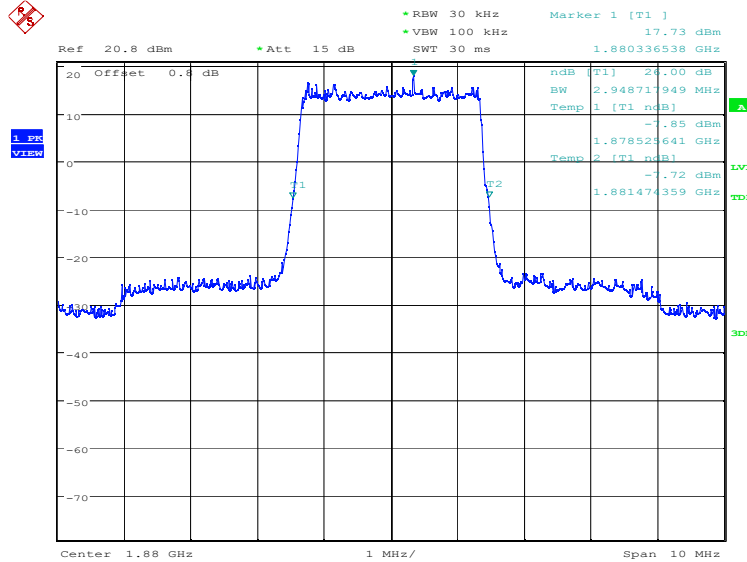


Date: 7.APR.2022 11:46:18

LTE band 2, 3MHz (-26dBc)

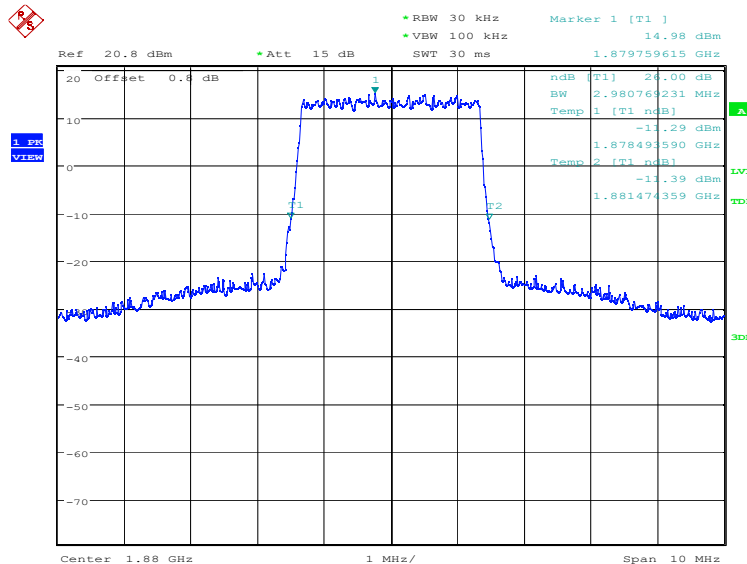
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	2948.72	2980.77

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



Date: 7.APR.2022 11:47:02

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

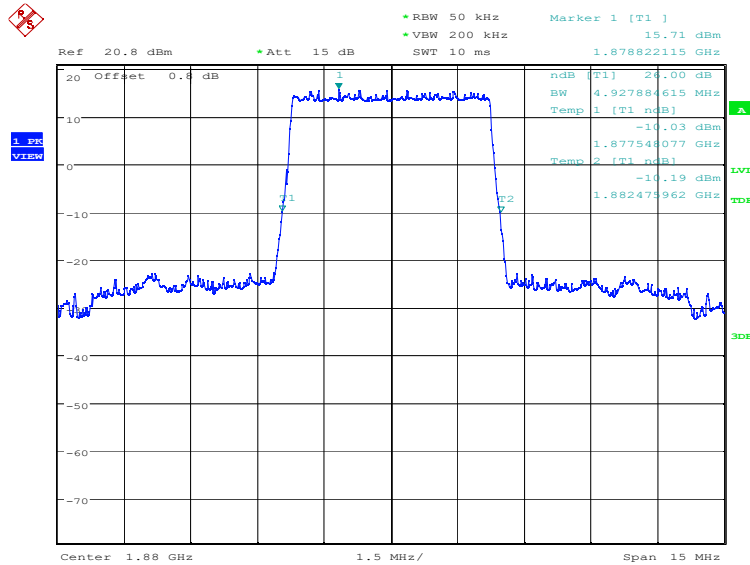


Date: 7.APR.2022 11:47:41

LTE band 2, 5MHz (-26dBc)

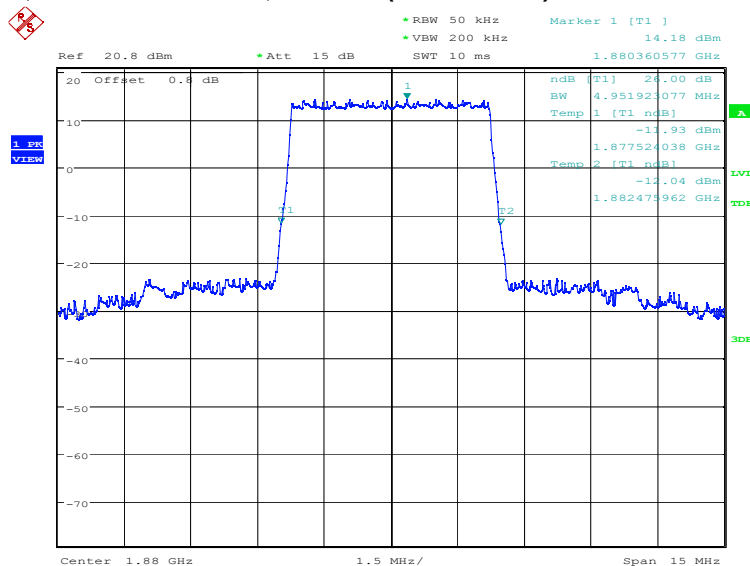
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	4927.88	4951.92

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



Date: 7.APR.2022 11:48:24

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

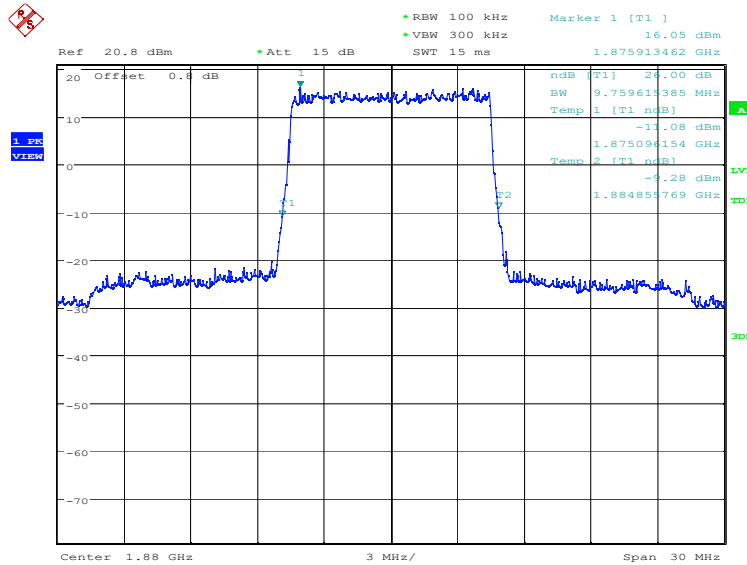


Date: 7.APR.2022 11:49:04

LTE band 2, 10MHz (-26dBc)

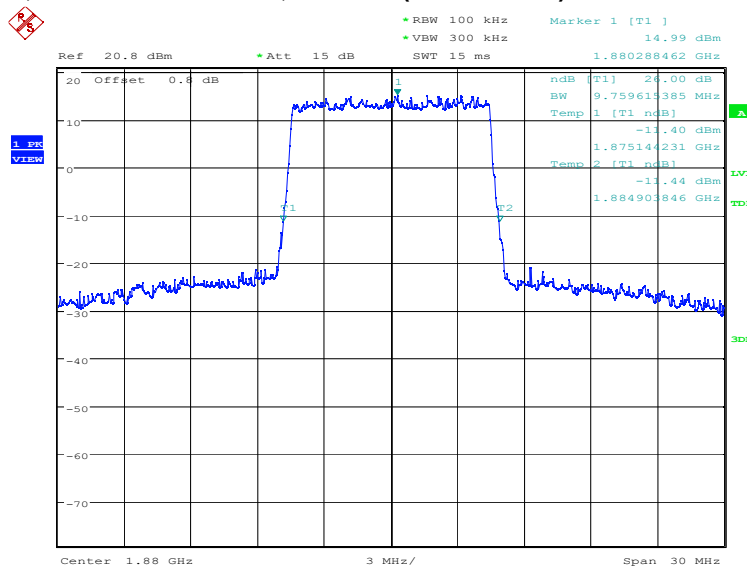
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	9759.62	9759.62

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



Date: 7.APR.2022 11:49:47

LTE band 2, 10MHz Bandwidth, 16QAM (-26dBc BW)

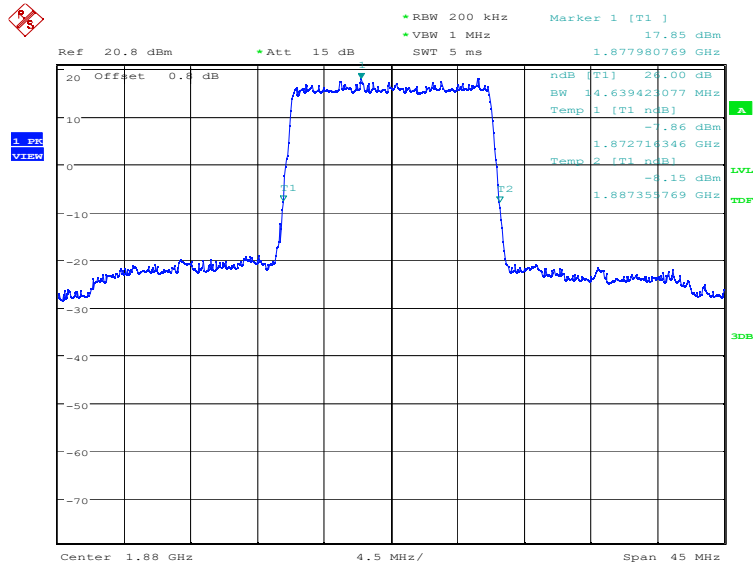


Date: 7.APR.2022 11:50:26

LTE band 2, 15MHz (-26dBc)

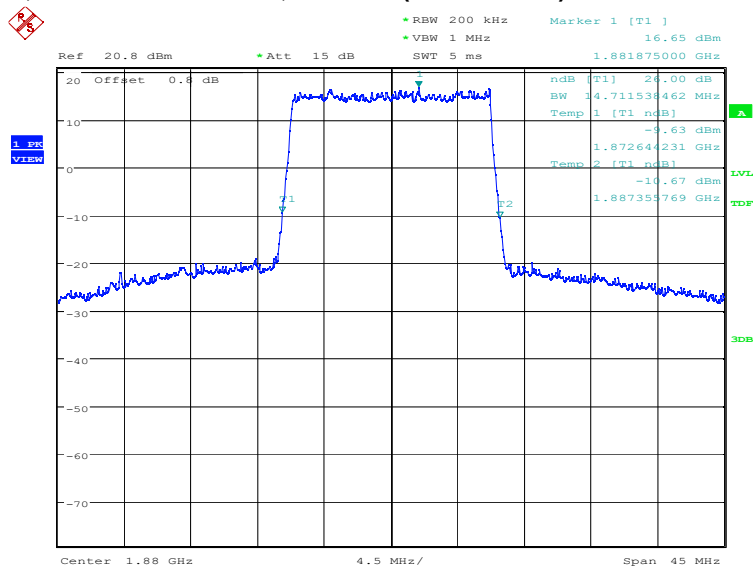
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	14639.42	14711.54

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



Date: 7.APR.2022 11:51:10

LTE band 2, 15MHz Bandwidth, 16QAM (-26dBc BW)

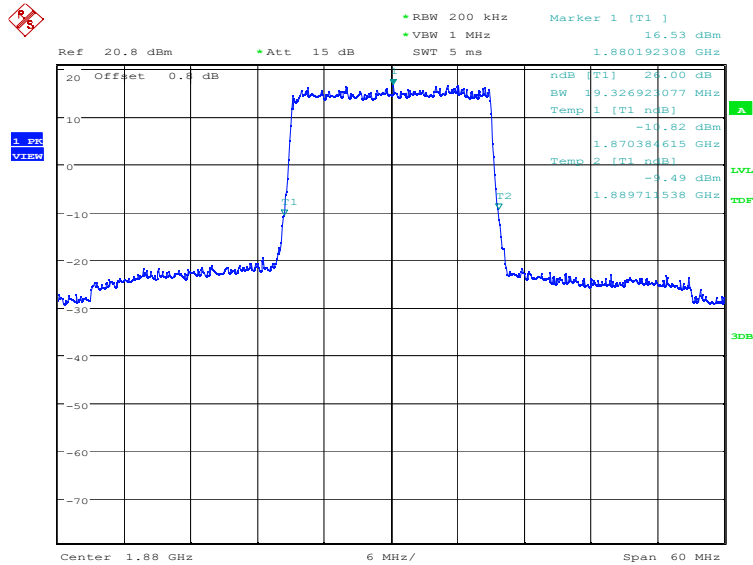


Date: 7.APR.2022 11:51:49

LTE band 2, 20MHz (-26dBc)

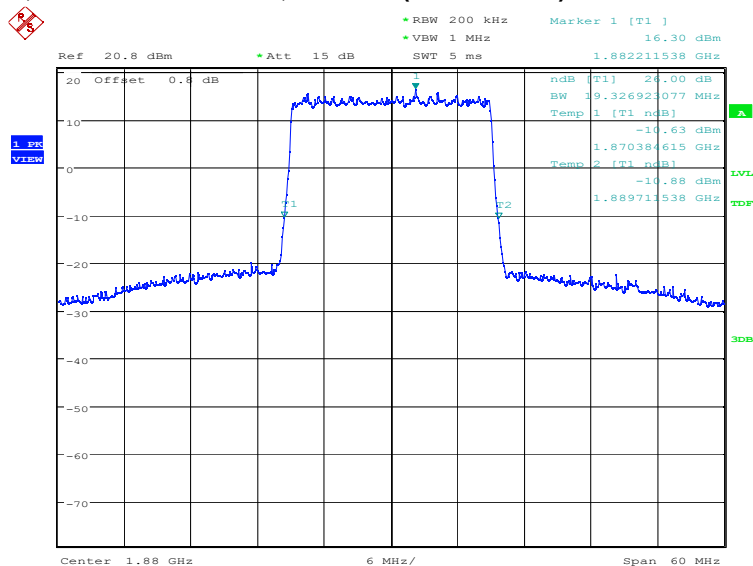
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	19326.92	19326.92

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



Date: 7.APR.2022 11:52:33

LTE band 2, 20MHz Bandwidth, 16QAM (-26dBc BW)

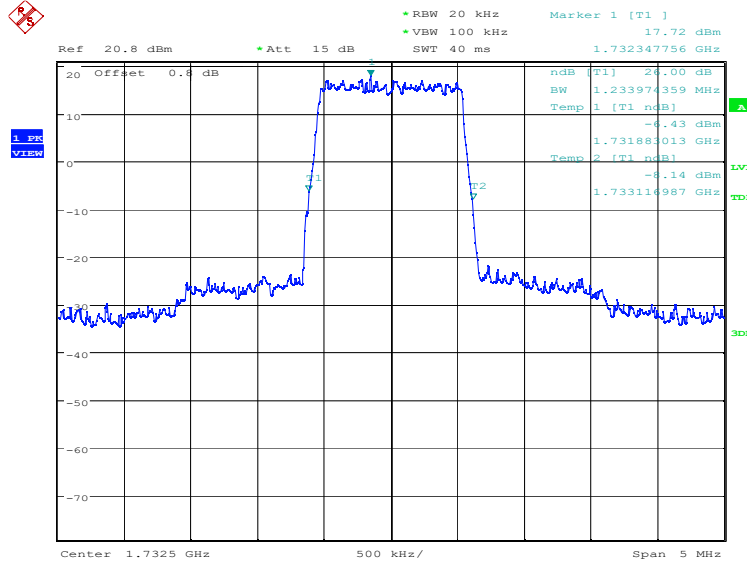


Date: 7.APR.2022 11:53:12

LTE band 4, 1.4MHz (-26dBc)

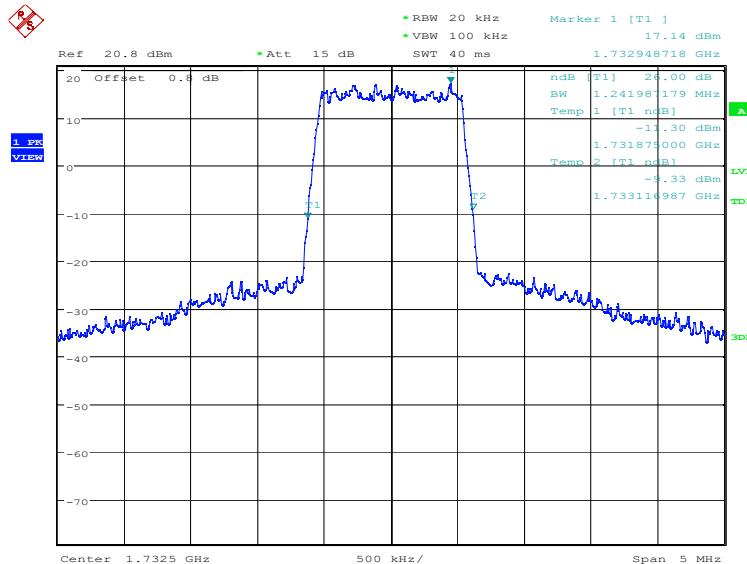
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	1233.97	1241.99

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



Date: 7.APR.2022 11:54:00

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

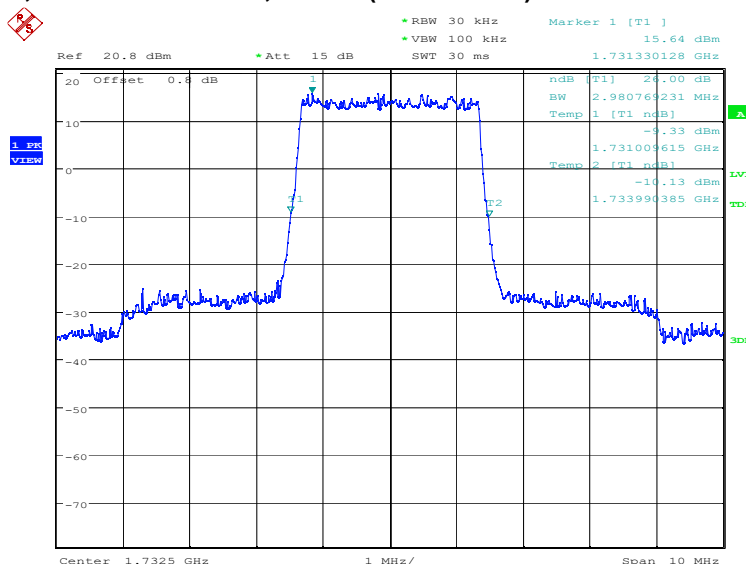


Date: 7.APR.2022 11:54:39

LTE band 4, 3MHz (-26dBc)

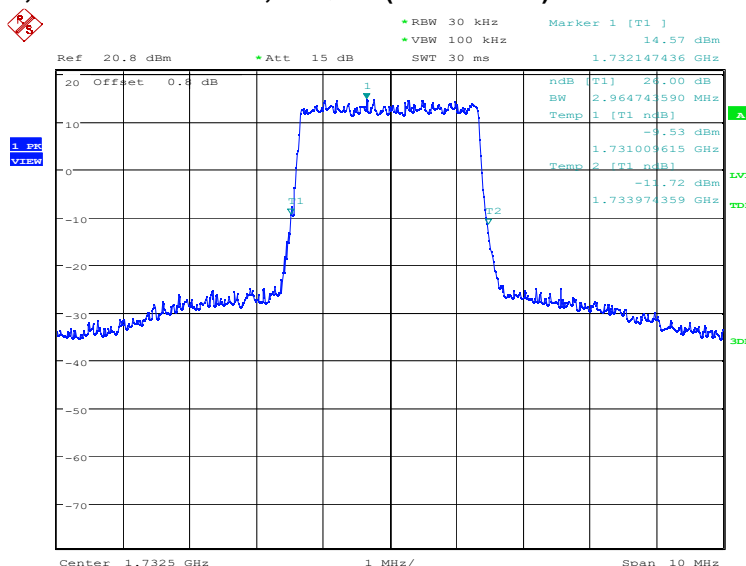
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	2980.77	2964.74

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



Date: 7.APR.2022 11:55:22

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

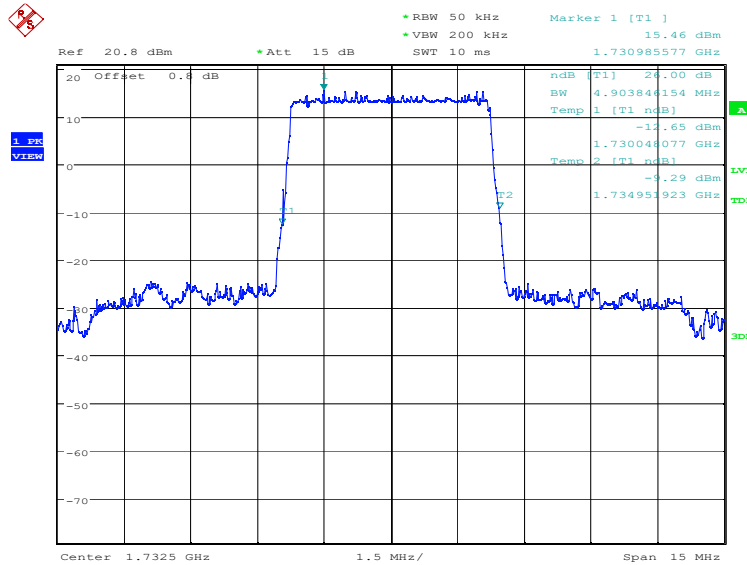


Date: 7.APR.2022 11:56:01

LTE band 4, 5MHz (-26dBc)

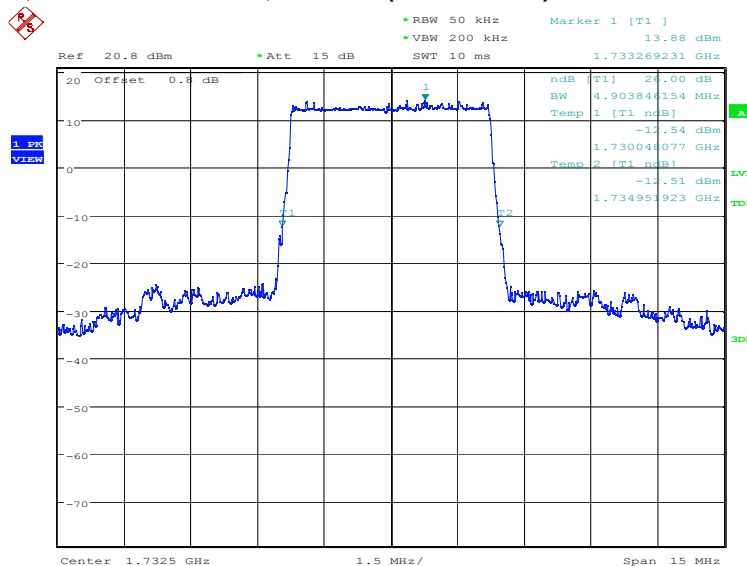
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	4903.85	4903.85

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



Date: 7.APR.2022 11:56:45

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

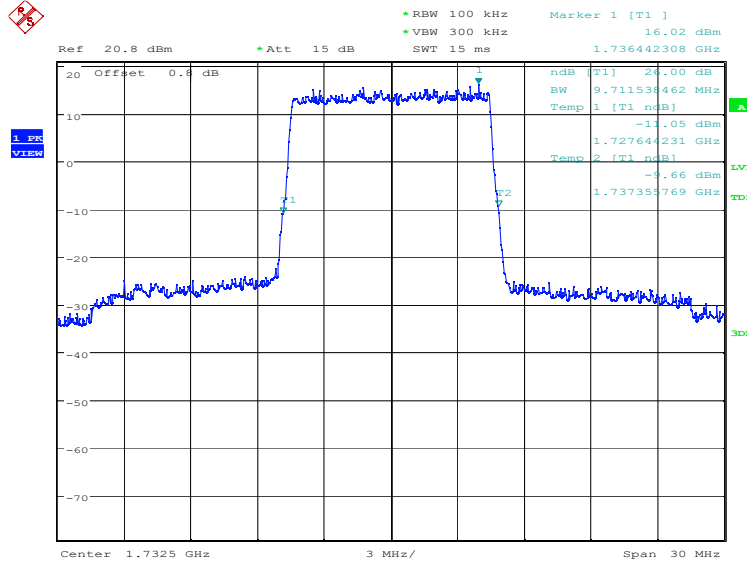


Date: 7.APR.2022 11:57:24

LTE band 4, 10MHz (-26dBc)

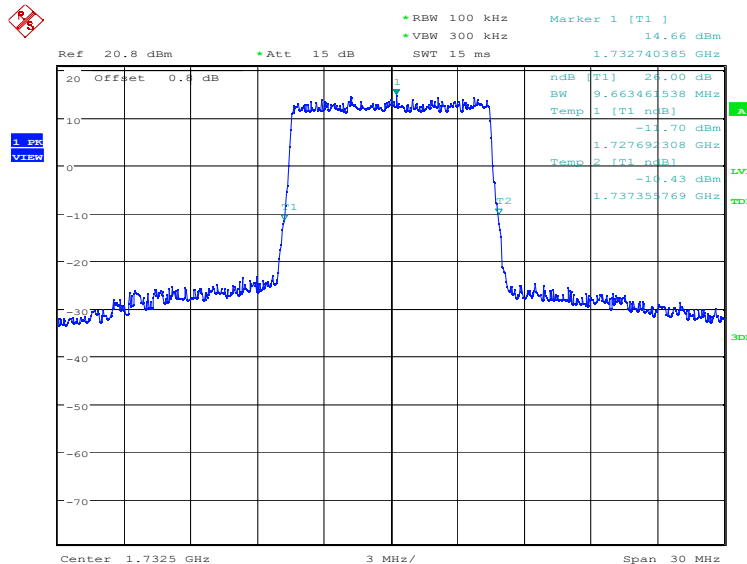
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	9711.54	9663.46

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



Date: 7.APR.2022 11:58:08

LTE band 4, 10MHz Bandwidth, 16QAM (-26dBc BW)

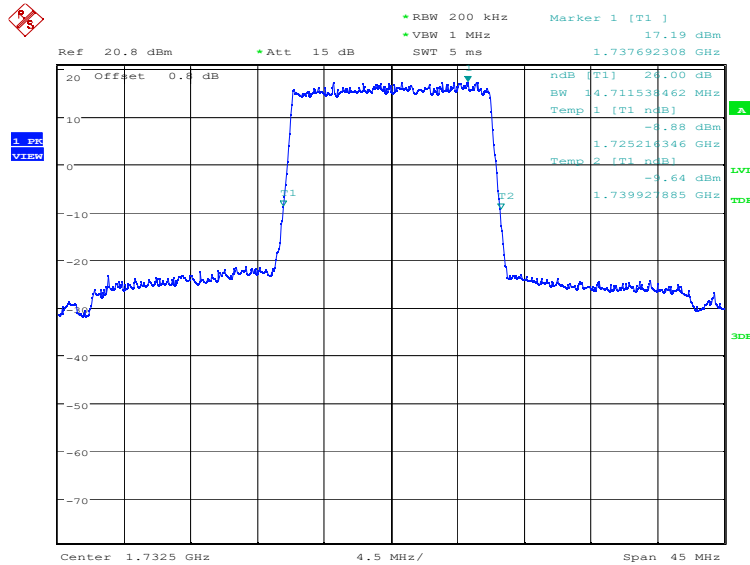


Date: 7.APR.2022 11:58:47

LTE band 4, 15MHz (-26dBc)

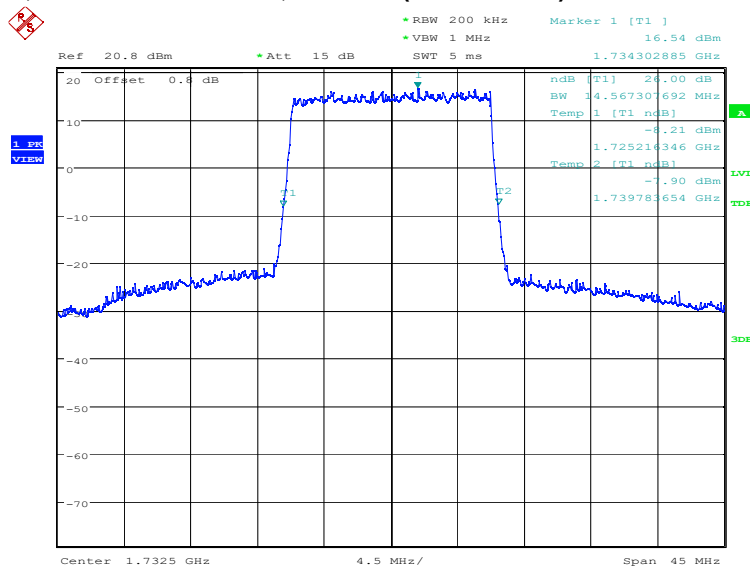
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	14711.54	14567.31

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



Date: 7.APR.2022 11:59:31

LTE band 4, 15MHz Bandwidth, 16QAM (-26dBc BW)

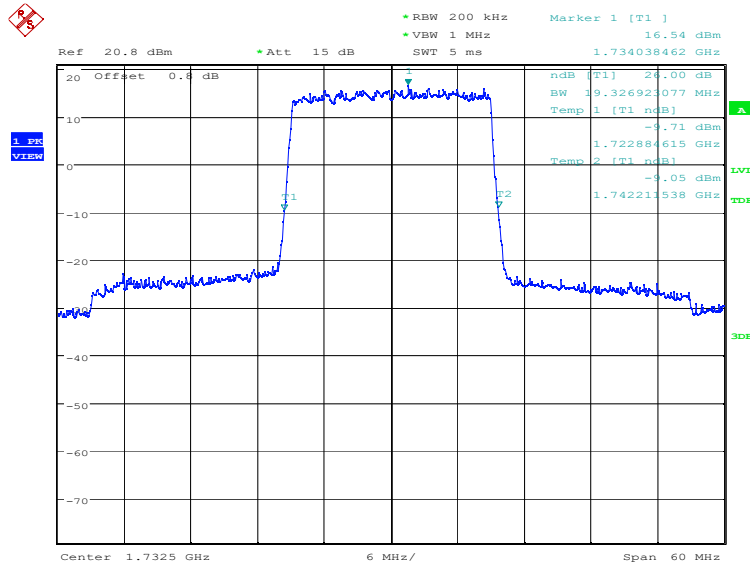


Date: 7.APR.2022 12:00:10

LTE band 4, 20MHz (-26dBc)

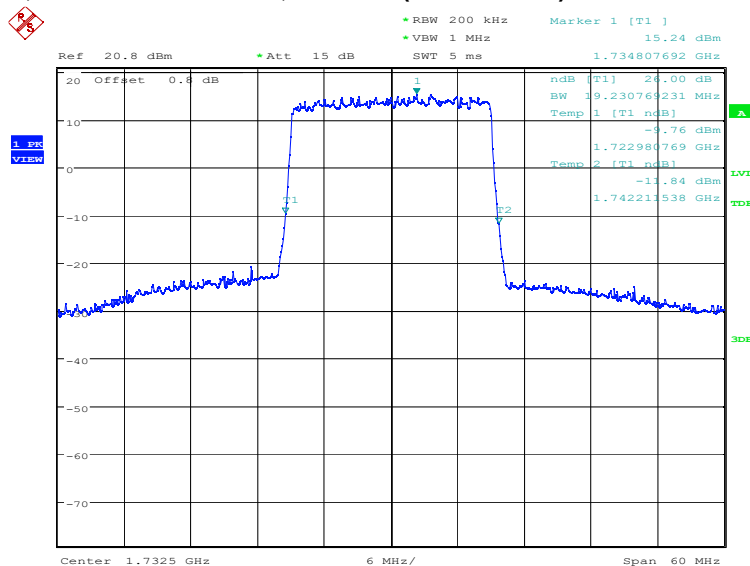
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	19326.92	19230.77

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



Date: 7.APR.2022 12:00:53

LTE band 4, 20MHz Bandwidth, 16QAM (-26dBc BW)

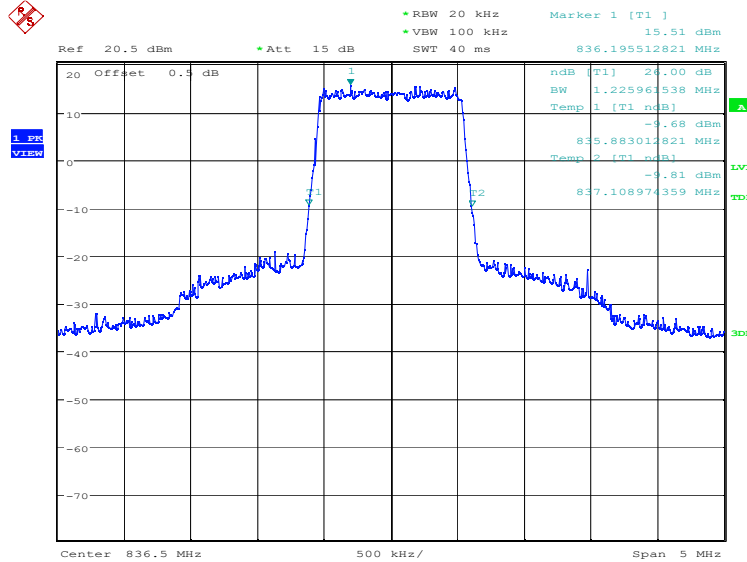


Date: 7.APR.2022 12:01:32

LTE band 5, 1.4MHz (-26dBc)

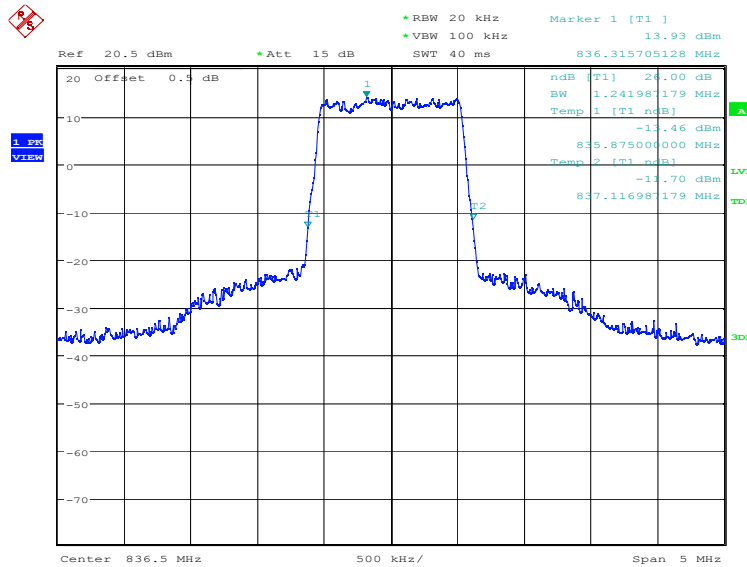
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	1225.96	1241.99

LTE band 5, 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 7.APR.2022 12:03:11

LTE band 5, 1.4MHz Bandwidth, 16QAM (-26dBc BW)

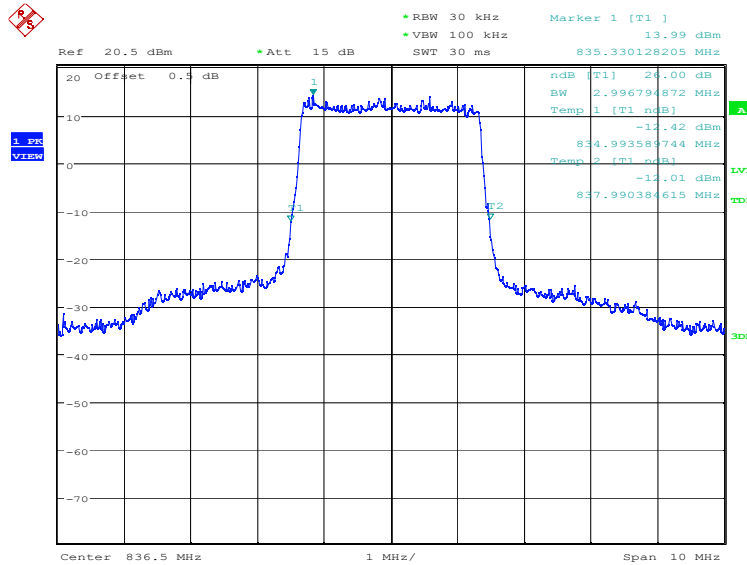


Date: 7.APR.2022 12:03:50

LTE band 5, 3MHz (-26dBc)

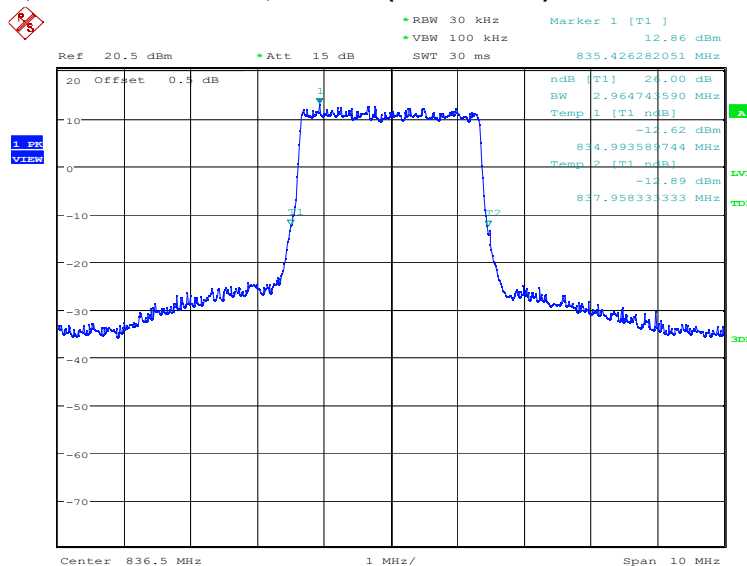
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	2996.79	2964.74

LTE band 5, 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 7.APR.2022 12:04:34

LTE band 5, 3MHz Bandwidth, 16QAM (-26dBc BW)

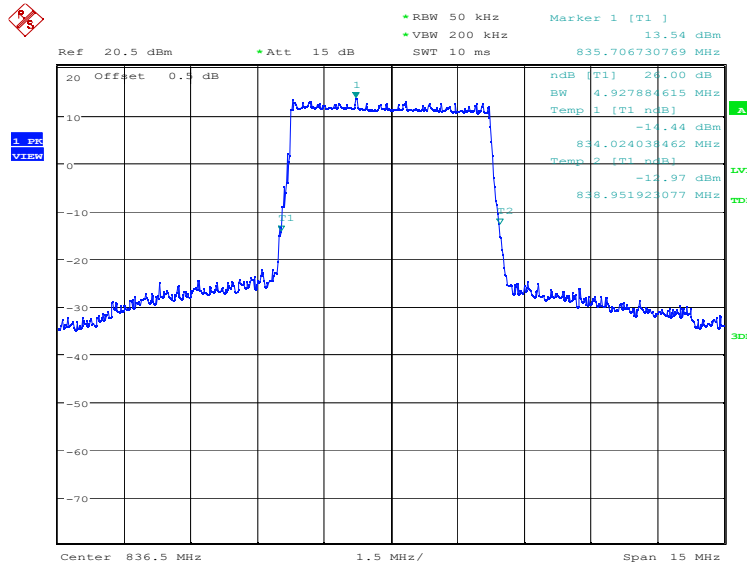


Date: 7.APR.2022 12:05:13

LTE band 5, 5MHz (-26dBc)

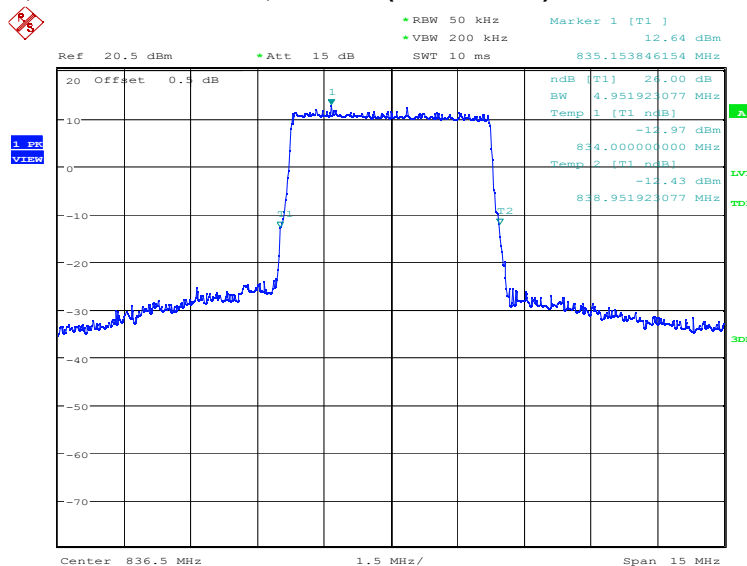
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	4927.88	4951.92

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



Date: 7.APR.2022 12:05:57

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

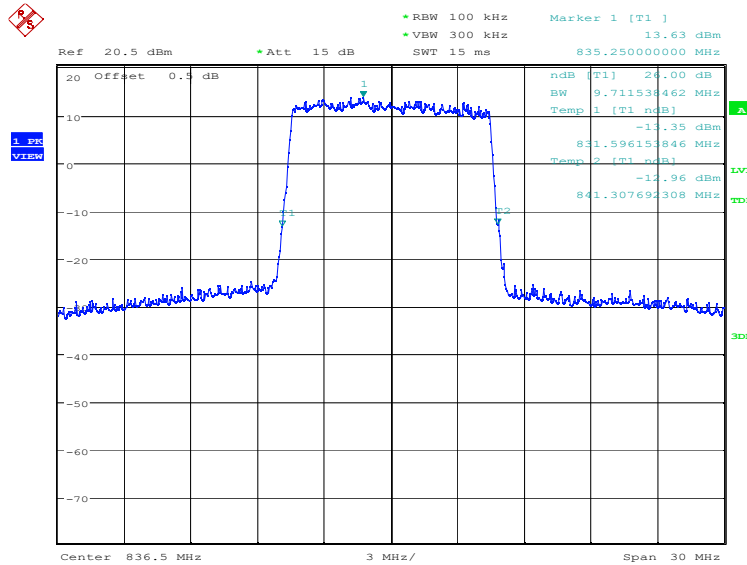


Date: 7.APR.2022 12:06:36

LTE band 5, 10MHz (-26dBc)

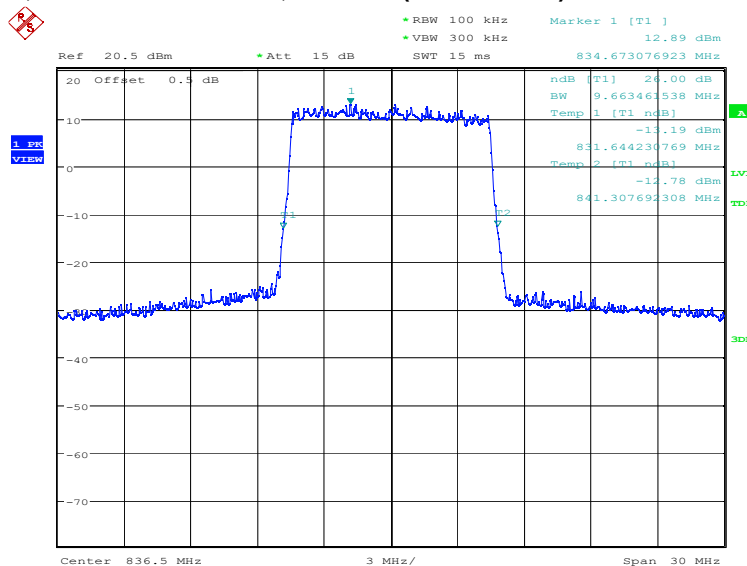
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	9711.54	9663.46

LTE band 5, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 7.APR.2022 12:07:20

LTE band 5, 10MHz Bandwidth, 16QAM (-26dBc BW)

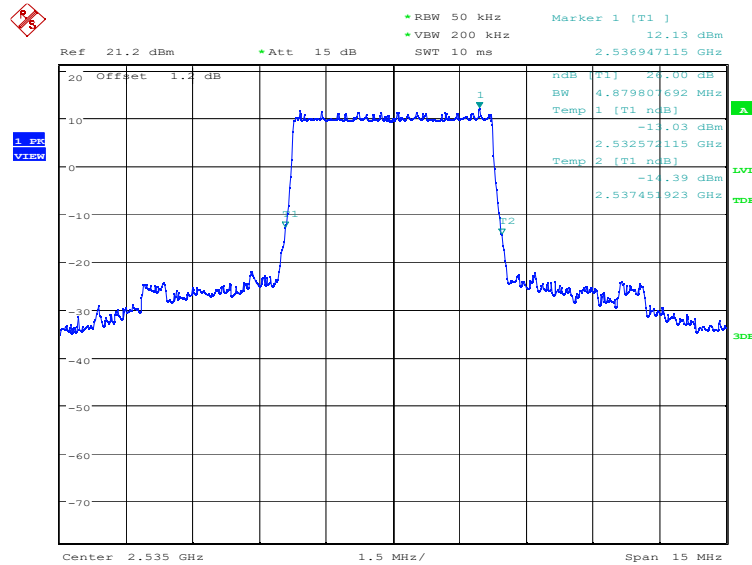


Date: 7.APR.2022 12:07:59

LTE band 7, 5MHz (-26dBc)

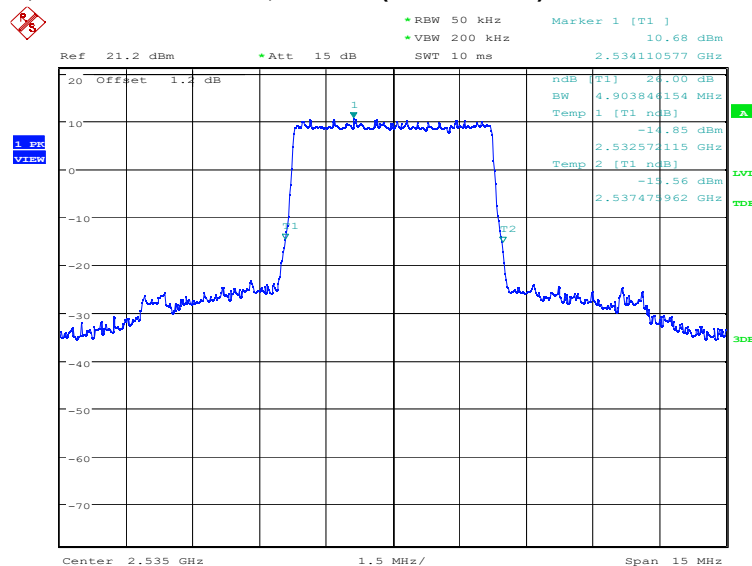
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	4879.81	4903.85

LTE band 7, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 5.MAR.2022 13:07:53

LTE band 7, 5MHz Bandwidth,16QAM (-26dBc BW)

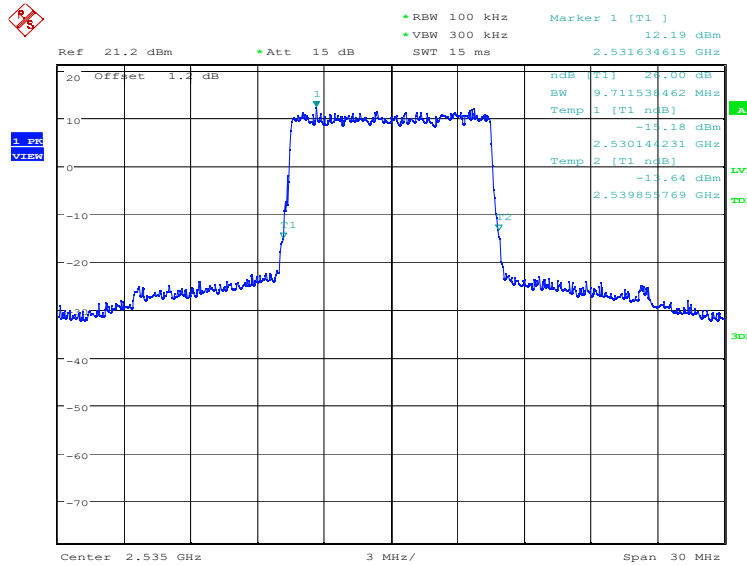


Date: 5.MAR.2022 13:08:32

LTE band 7, 10MHz (-26dBc)

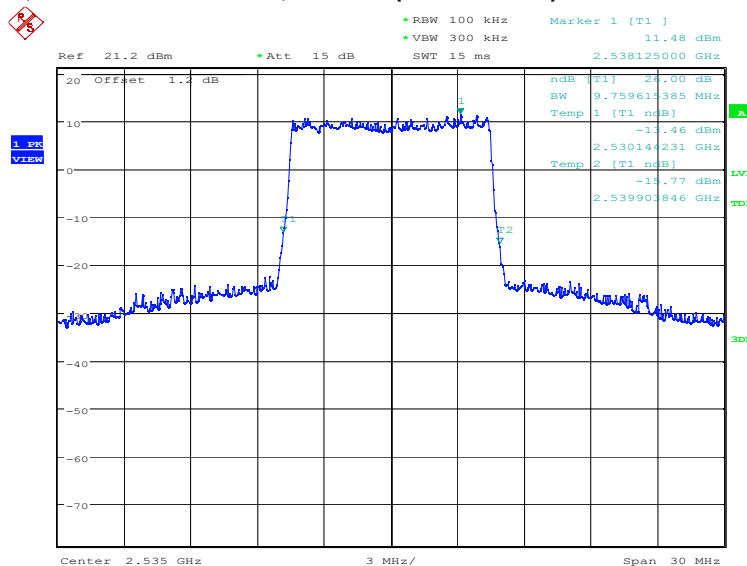
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	9711.54	9759.62

LTE band 7, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 5.MAR.2022 13:09:15

LTE band 7, 10MHz Bandwidth,16QAM (-26dBc BW)

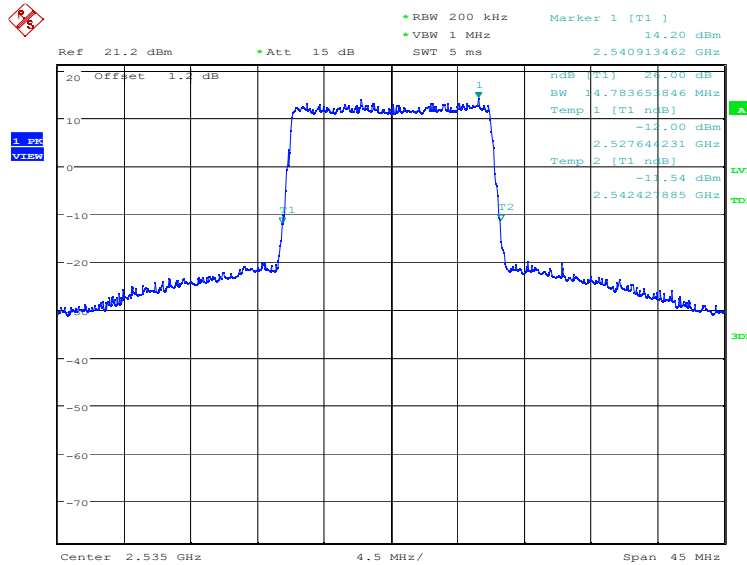


Date: 5.MAR.2022 13:09:54

LTE band 7, 15MHz (-26dBc)

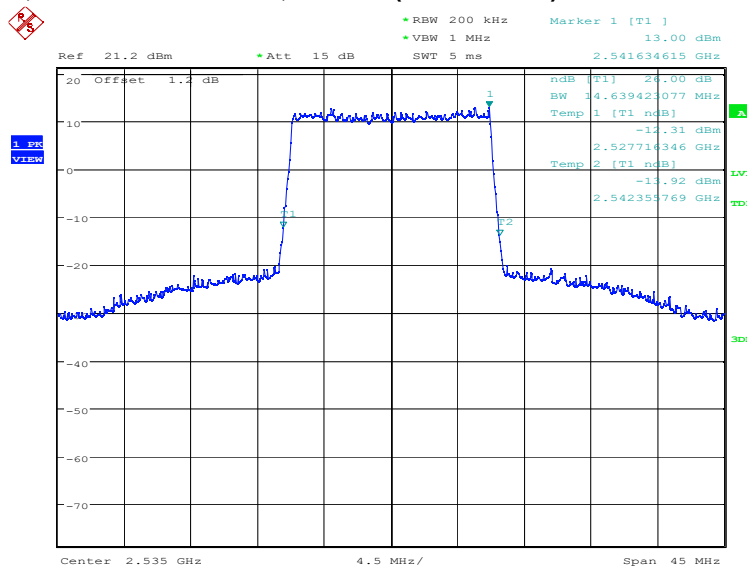
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	14783.65	14639.42

LTE band 7, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 5.MAR.2022 13:10:37

LTE band 7, 15MHz Bandwidth,16QAM (-26dBc BW)

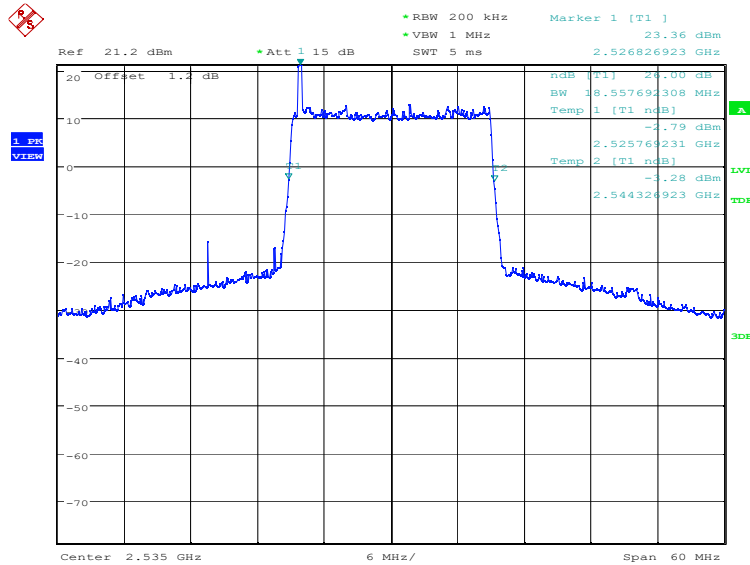


Date: 5.MAR.2022 13:11:17

LTE band 7, 20MHz (-26dBc)

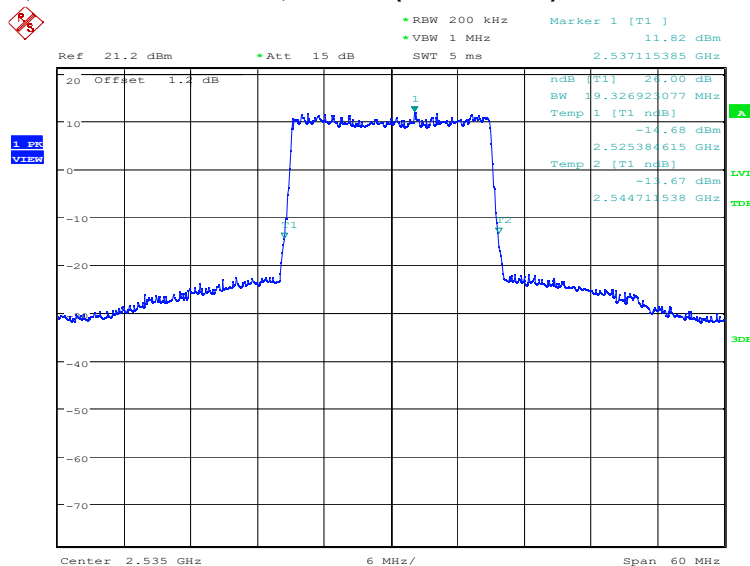
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	18557.69	19326.92

LTE band 7, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 5.MAR.2022 13:11:59

LTE band 7, 20MHz Bandwidth, 16QAM (-26dBc BW)

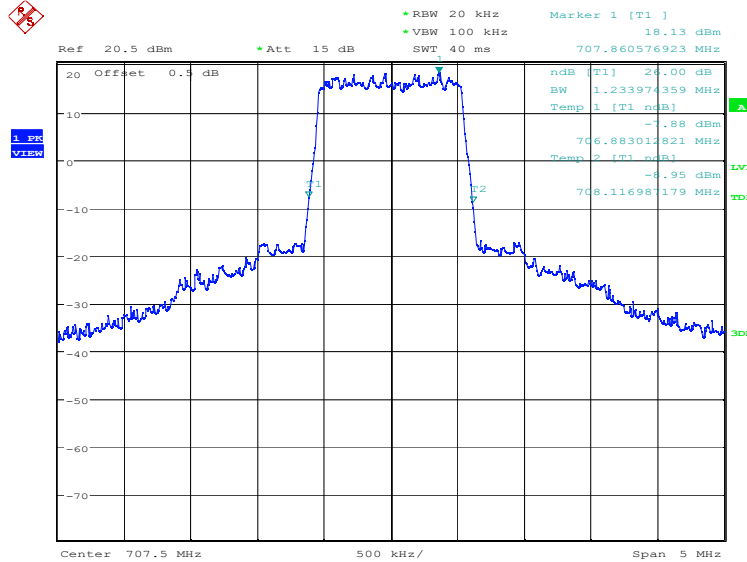


Date: 5.MAR.2022 13:12:39

LTE band 12, 1.4MHz (-26dBc)

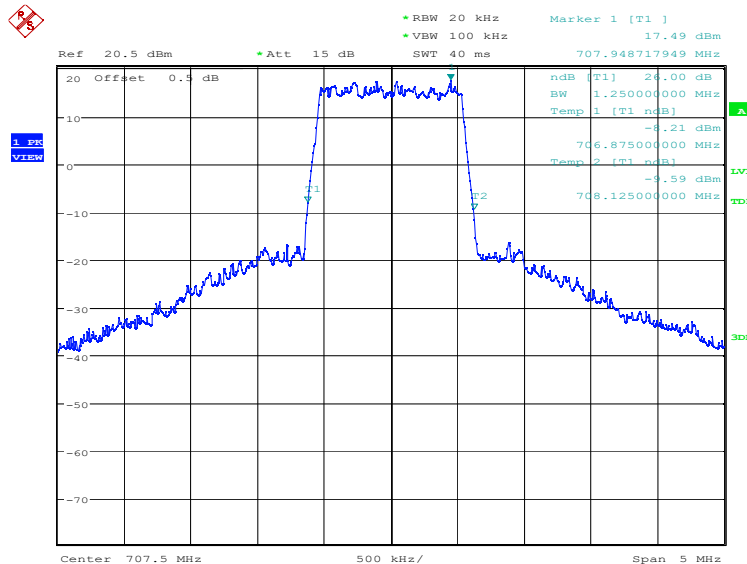
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	1233.97	1250.00

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



Date: 4.MAR.2022 13:56:46

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

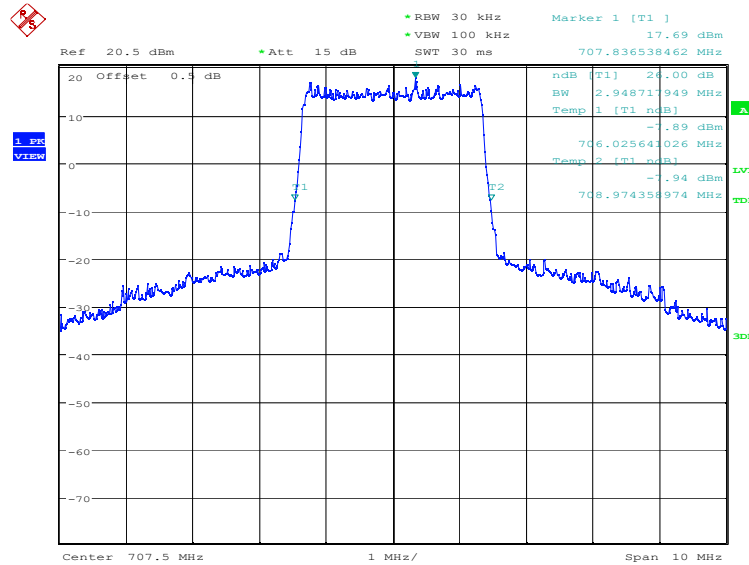


Date: 4.MAR.2022 13:57:26

LTE band 12, 3MHz (-26dBc)

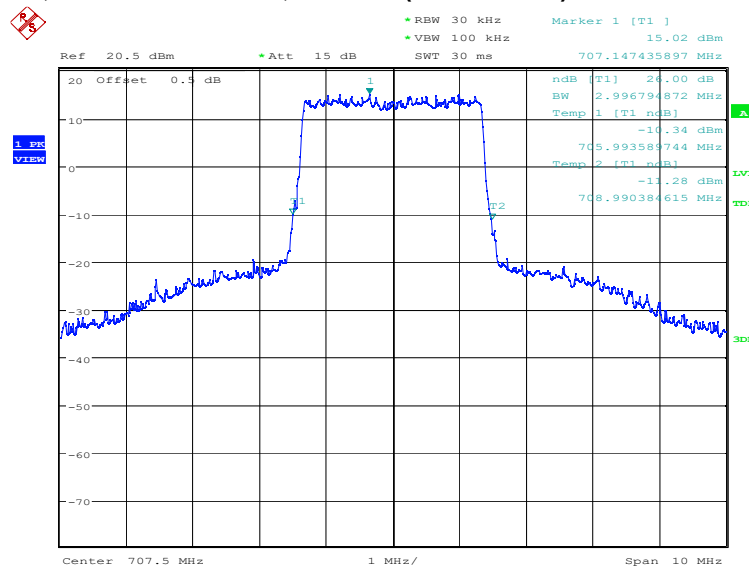
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	2948.72	2996.79

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



Date: 4.MAR.2022 13:58:11

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

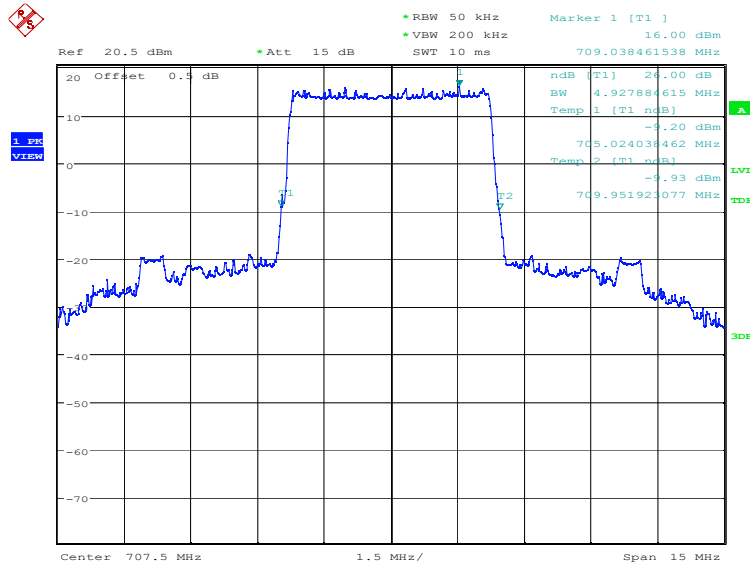


Date: 4.MAR.2022 13:58:50

LTE band 12, 5MHz (-26dBc)

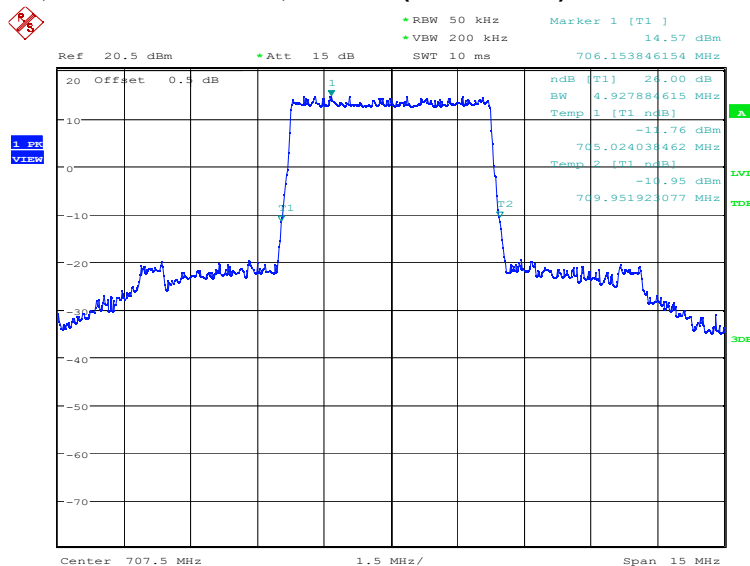
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	4927.88	4927.88

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



Date: 4.MAR.2022 13:59:36

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

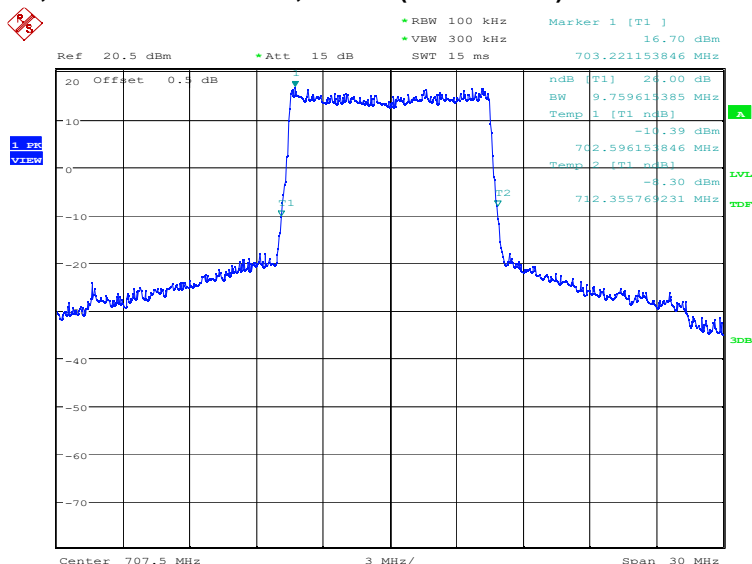


Date: 4.MAR.2022 14:00:15

LTE band 12, 10MHz (-26dBc)

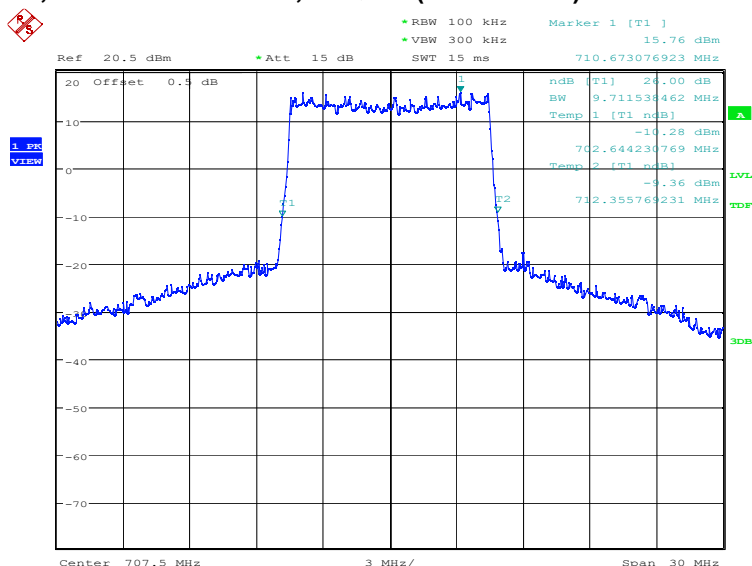
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	9759.62	9711.54

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



Date: 4.MAR.2022 14:01:00

LTE band 12, 10MHz Bandwidth, 16QAM (-26dBc BW)

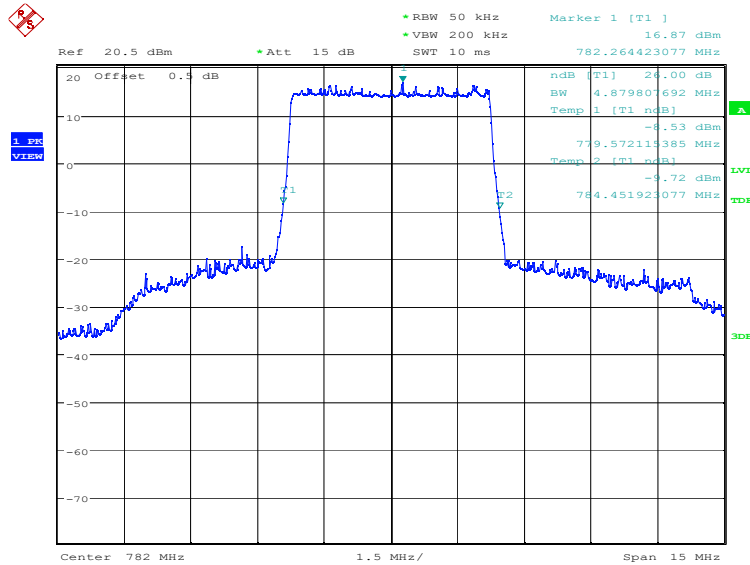


Date: 4.MAR.2022 14:01:40

LTE band 13, 5MHz (-26dBc)

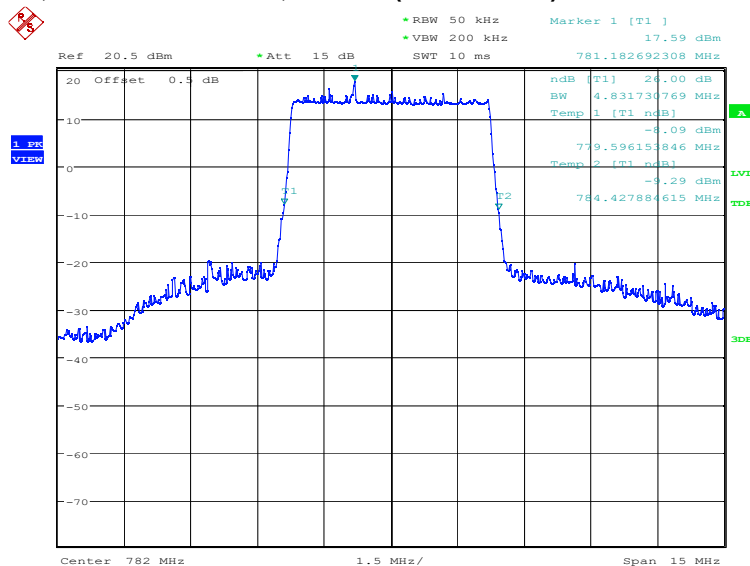
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	4879.81	4831.73

LTE band 13, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 14:02:28

LTE band 13, 5MHz Bandwidth, 16QAM (-26dBc BW)

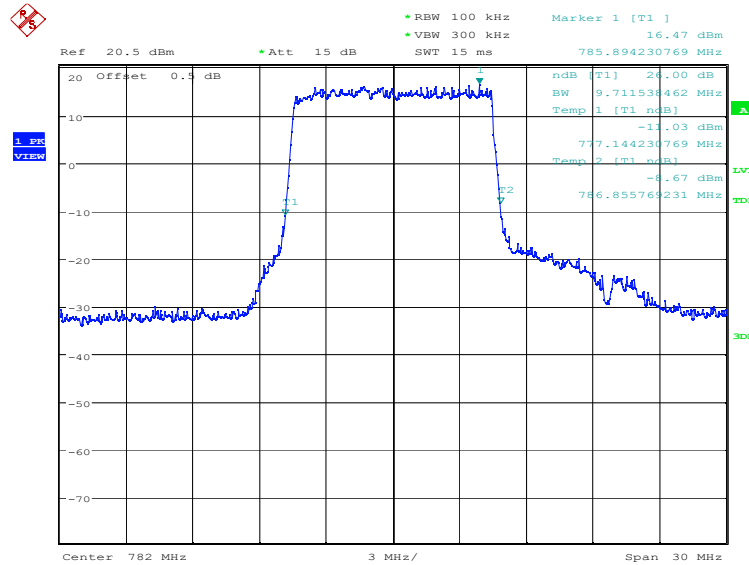


Date: 4.MAR.2022 14:03:08

LTE band 13, 10MHz (-26dBc)

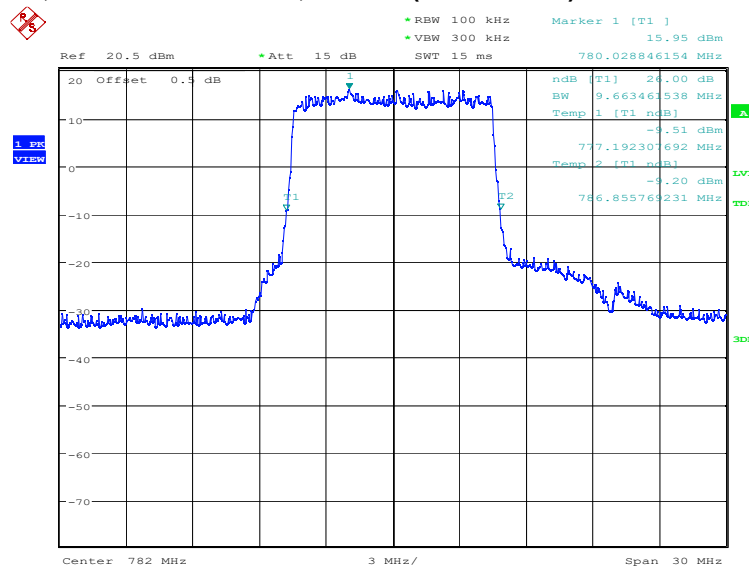
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	9711.54	9663.46

LTE band 13, 10MHz Bandwidth, QPSK (-26dB BW)



Date: 4.MAR.2022 14:03:51

LTE band 13, 10MHz Bandwidth,16QAM (-26dB BW)

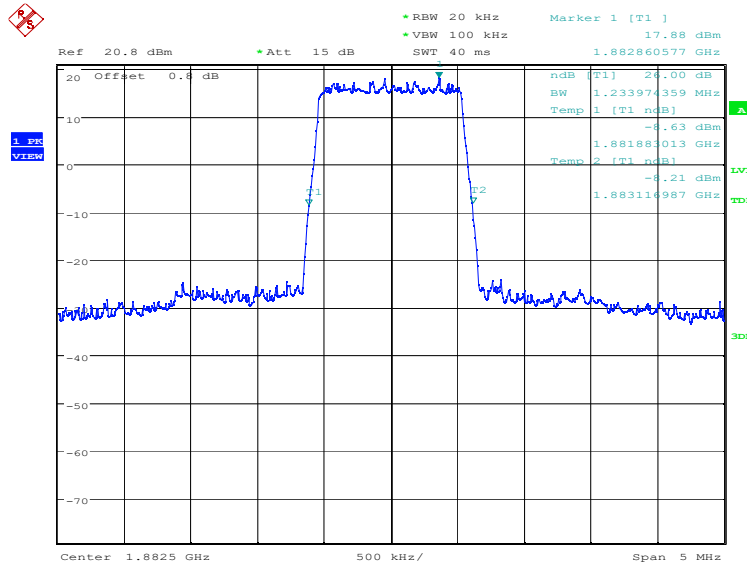


Date: 4.MAR.2022 14:04:31

LTE band 25, 1.4MHz (-26dBc)

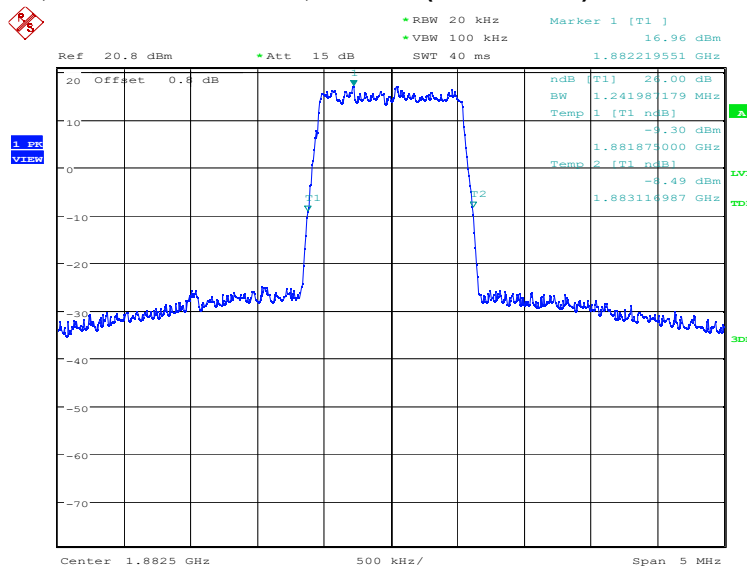
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	1233.97	1241.99

LTE band 25, 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 10:59:25

LTE band 25, 1.4MHz Bandwidth, 16QAM (-26dBc BW)

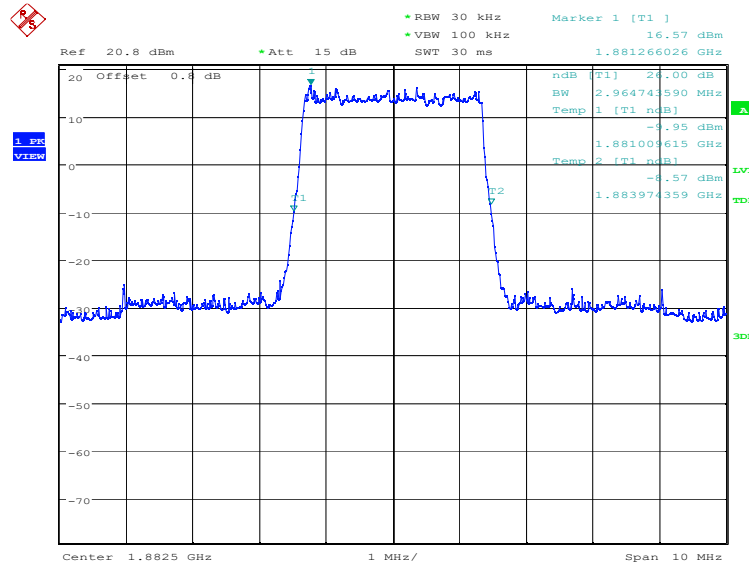


Date: 4.MAR.2022 11:00:05

LTE band 25, 3MHz (-26dBc)

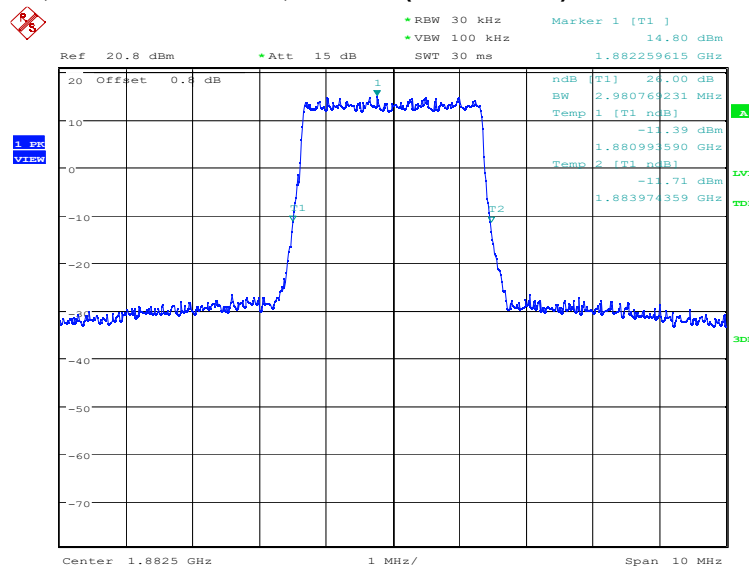
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	2964.74	2980.77

LTE band 25, 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:00:49

LTE band 25, 3MHz Bandwidth, 16QAM (-26dBc BW)

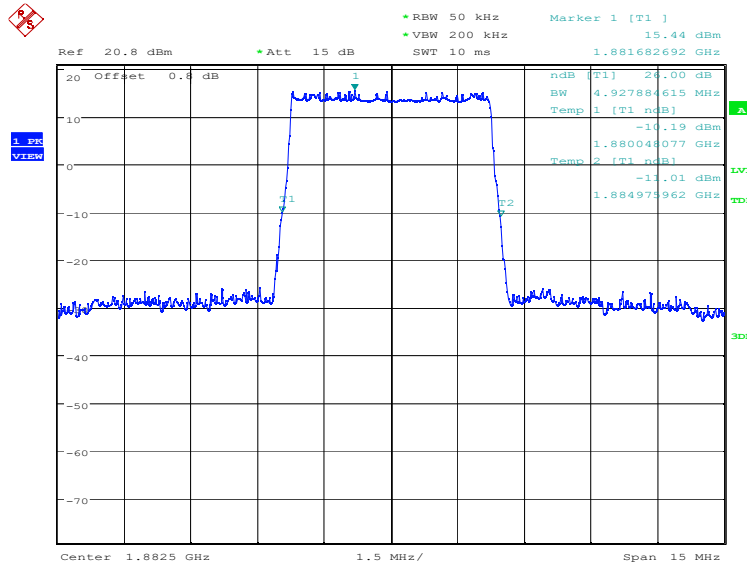


Date: 4.MAR.2022 11:01:28

LTE band 25, 5MHz (-26dBc)

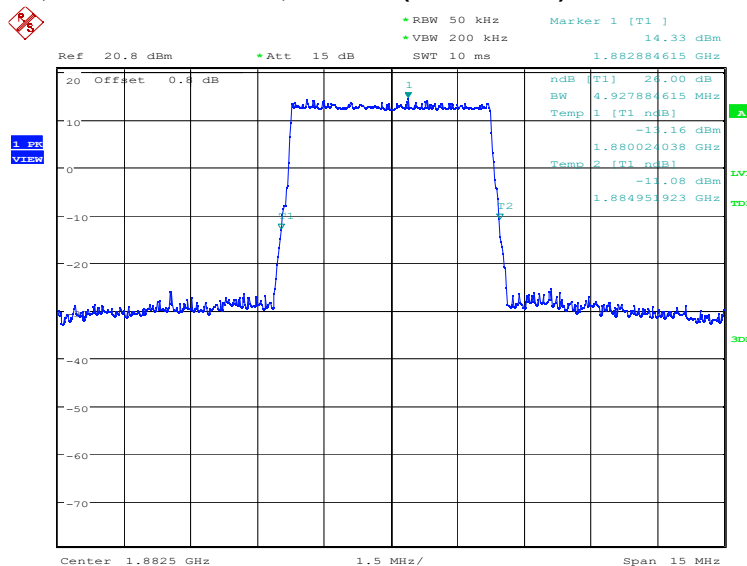
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	4927.88	4927.88

LTE band 25, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:02:12

LTE band 25, 5MHz Bandwidth, 16QAM (-26dBc BW)

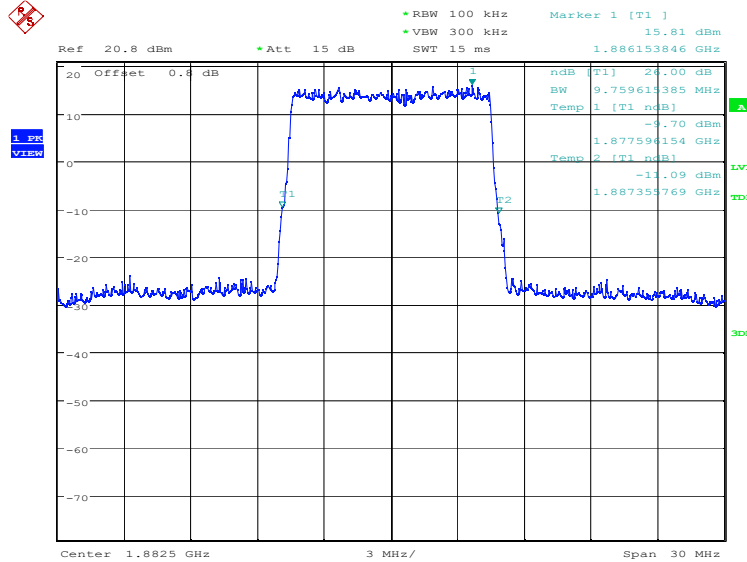


Date: 4.MAR.2022 11:02:52

LTE band 25, 10MHz (-26dBc)

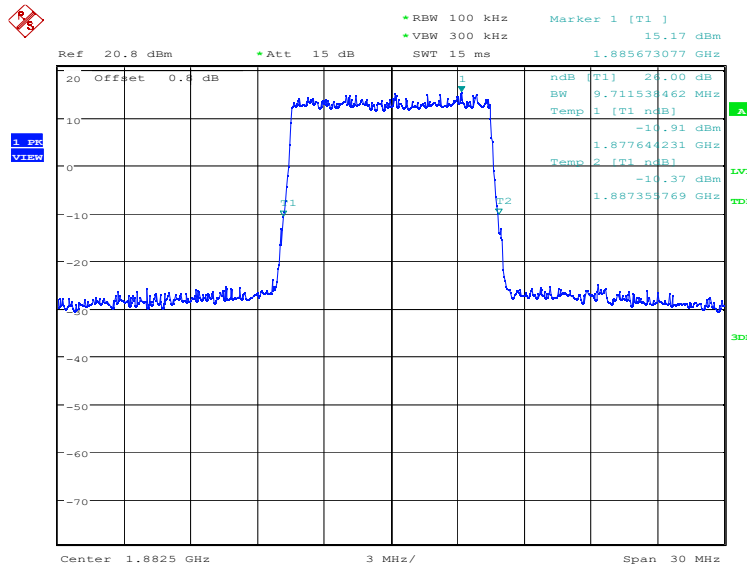
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	9759.62	9711.54

LTE band 25, 10MHz Bandwidth, QPSK (-26dB BW)



Date: 4.MAR.2022 11:03:36

LTE band 25, 10MHz Bandwidth, 16QAM (-26dB BW)

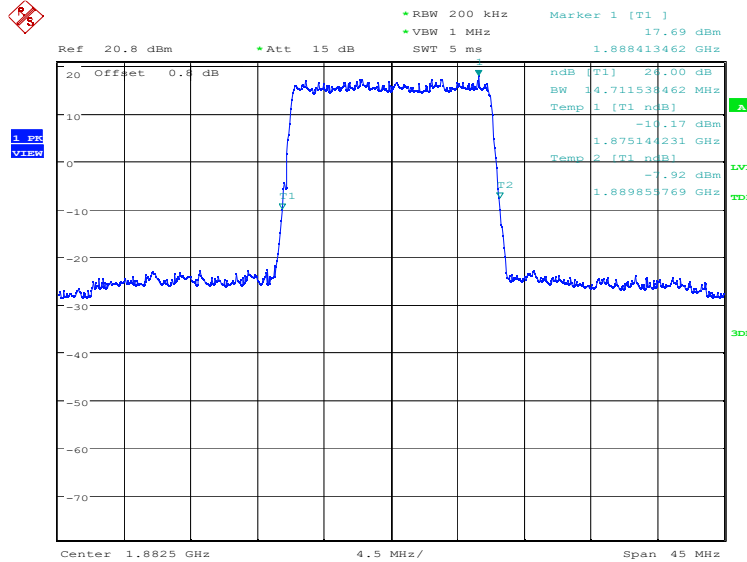


Date: 4.MAR.2022 11:04:15

LTE band 25, 15MHz (-26dBc)

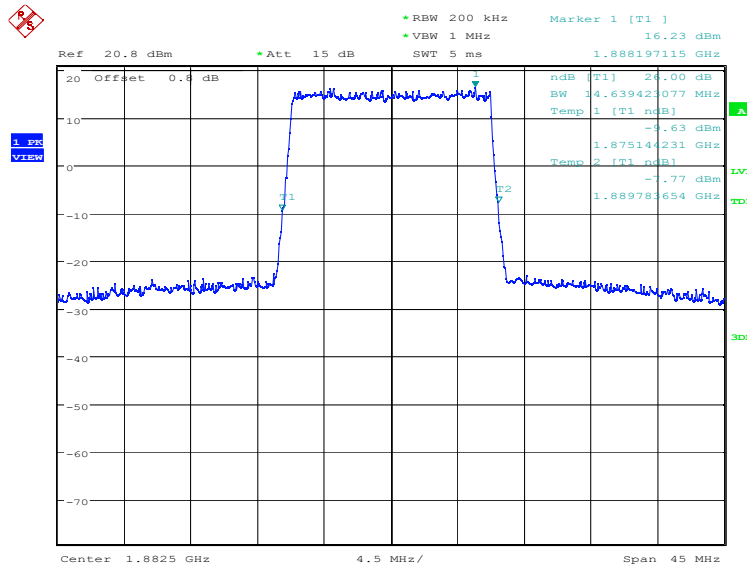
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	14711.54	14639.42

LTE band 25, 15MHz Bandwidth, QPSK (-26dB BW)



Date: 4.MAR.2022 11:04:59

LTE band 25, 15MHz Bandwidth, 16QAM (-26dB BW)

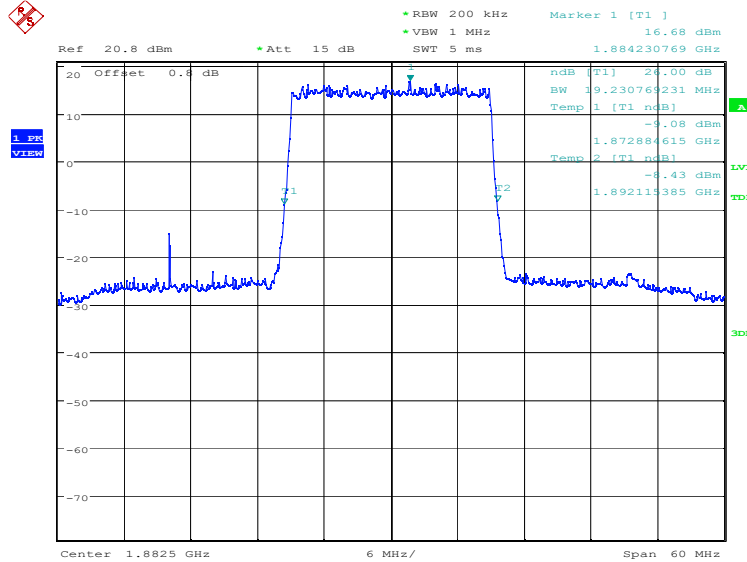


Date: 4.MAR.2022 11:05:39

LTE band 25, 20MHz (-26dBc)

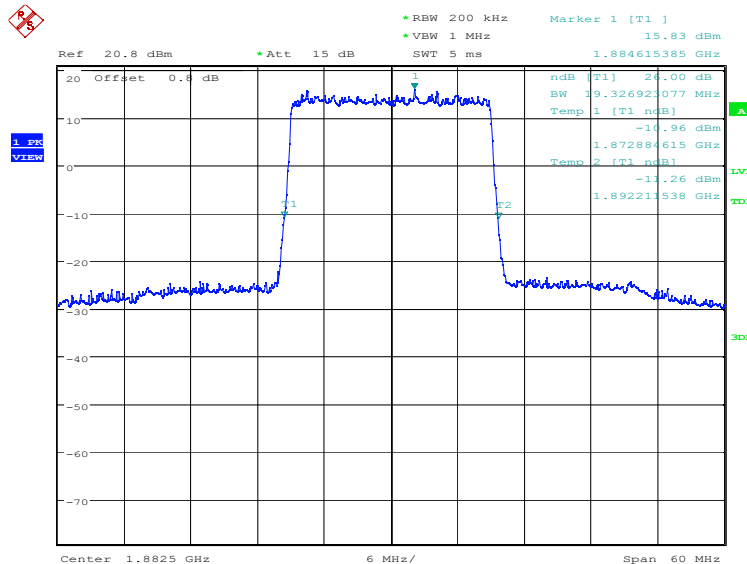
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	19230.77	19326.92

LTE band 25, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:06:23

LTE band 25, 20MHz Bandwidth, 16QAM (-26dBc BW)

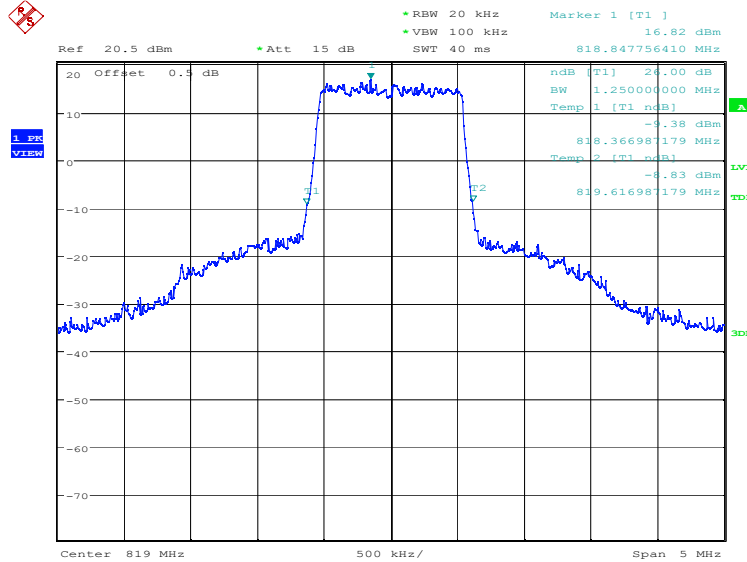


Date: 4.MAR.2022 11:07:02

LTE band 26(814MHz~824MHz), 1.4MHz (-26dBc)

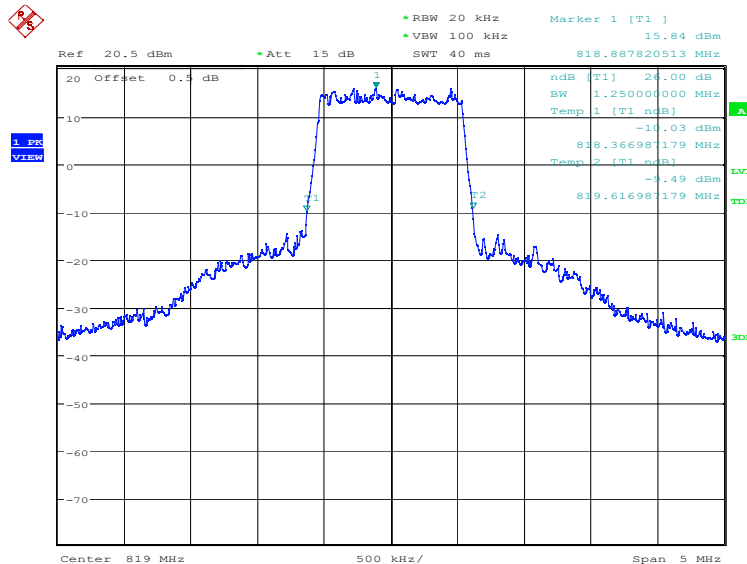
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	1250.00	1250.00

LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:16:21

LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, 16QAM (-26dBc BW)

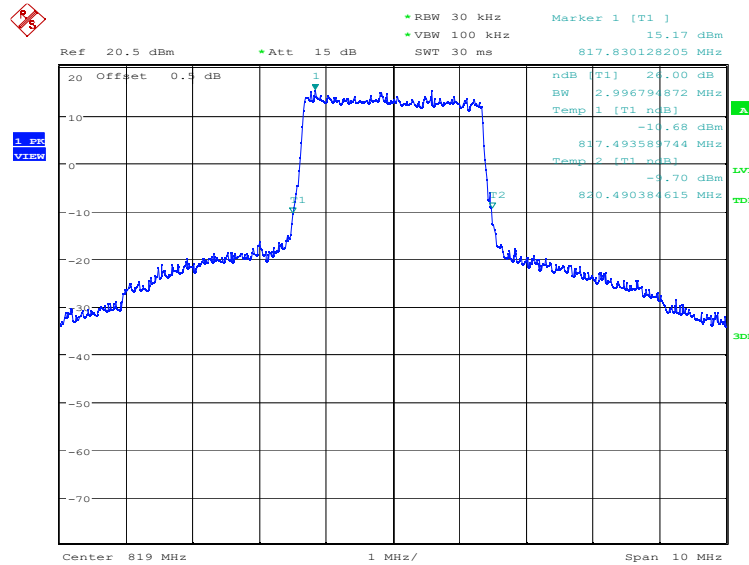


Date: 4.MAR.2022 11:17:01

LTE band 26(814MHz~824MHz), 3MHz (-26dBc)

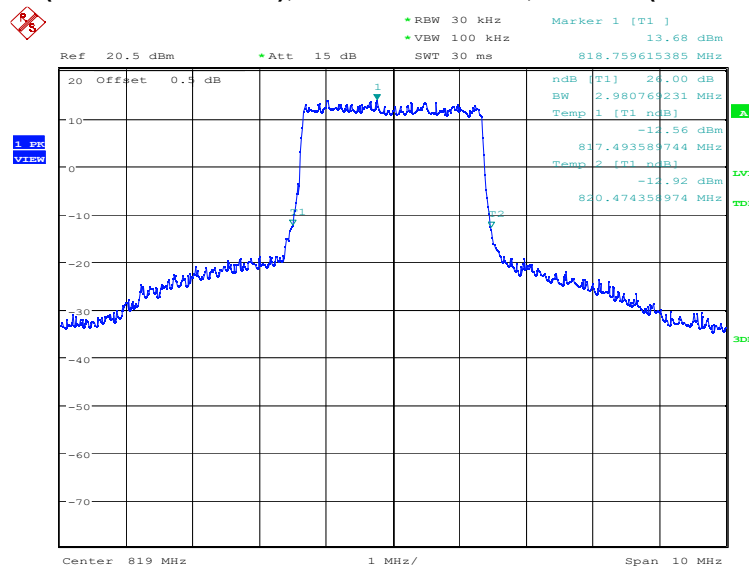
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	2996.79	2980.77

LTE band 26(814MHz~824MHz), 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:17:45

LTE band 26(814MHz~824MHz), 3MHz Bandwidth, 16QAM (-26dBc BW)

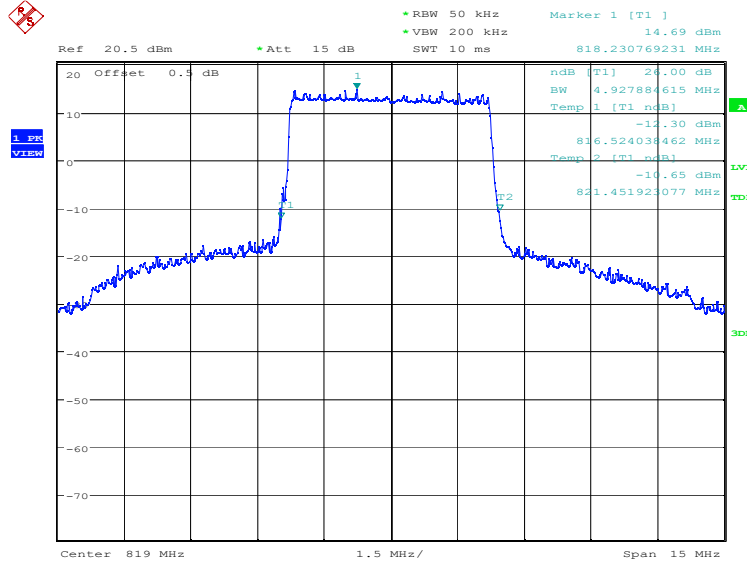


Date: 4.MAR.2022 11:18:25

LTE band 26(814MHz~824MHz), 5MHz (-26dBc)

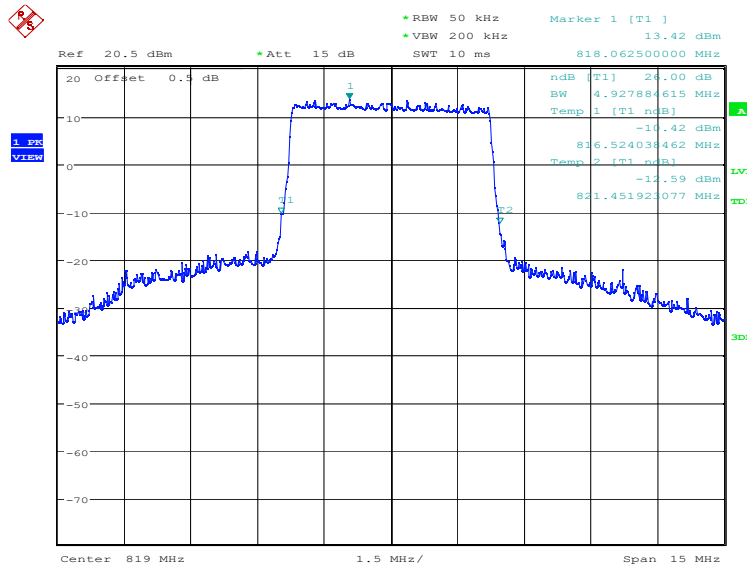
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	4927.88	4927.88

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:19:09

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, 16QAM (-26dBc BW)

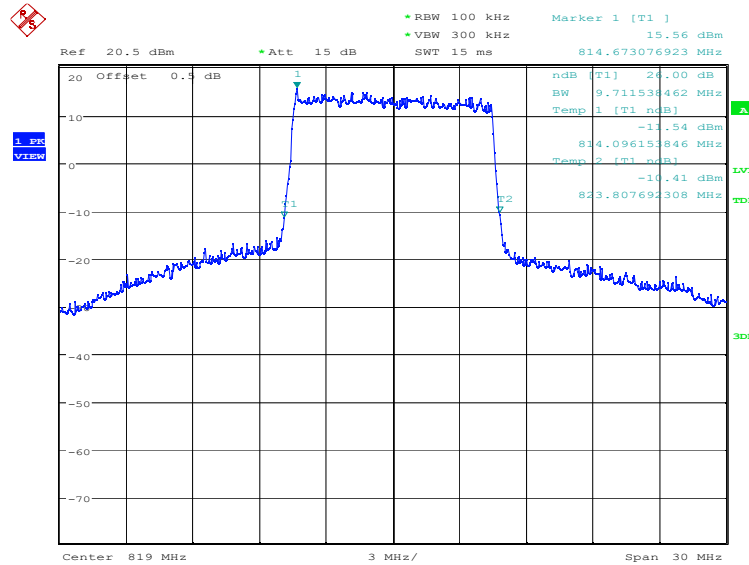


Date: 4.MAR.2022 11:19:48

LTE band 26(814MHz~824MHz), 10MHz (-26dBc)

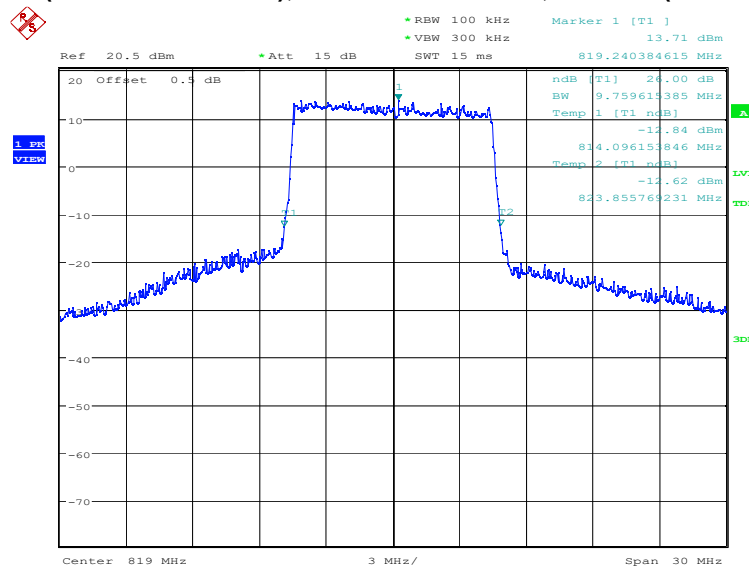
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	9711.54	9759.62

LTE band 26(814MHz~824MHz), 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:20:32

LTE band 26(814MHz~824MHz), 10MHz Bandwidth, 16QAM (-26dBc BW)

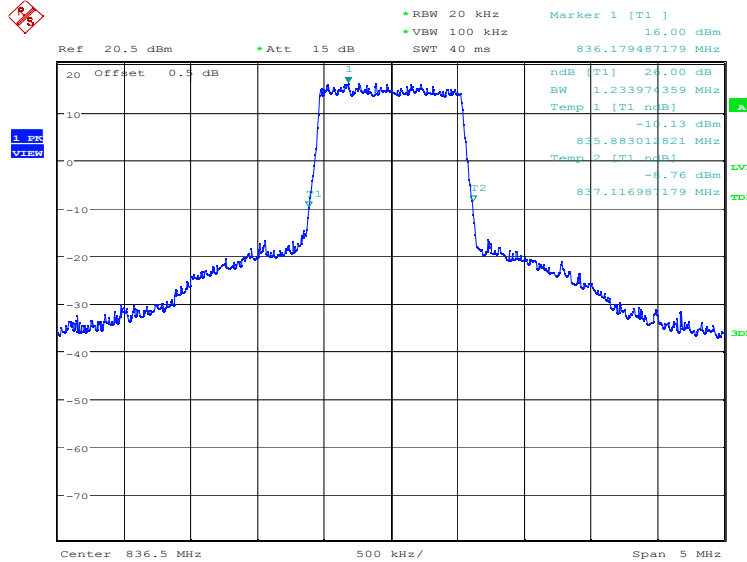


Date: 4.MAR.2022 11:21:12

LTE band 26(824MHz~849MHz), 1.4MHz (-26dBc)

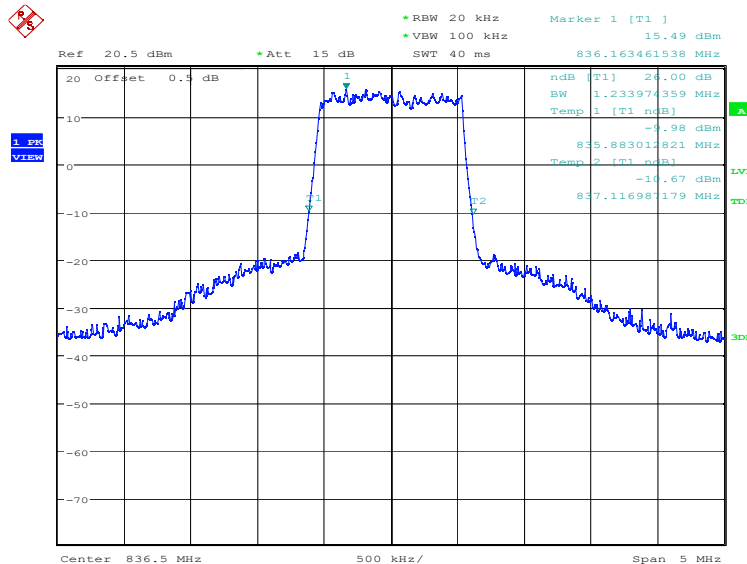
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	1233.97	1233.97

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:08:41

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, 16QAM (-26dBc BW)

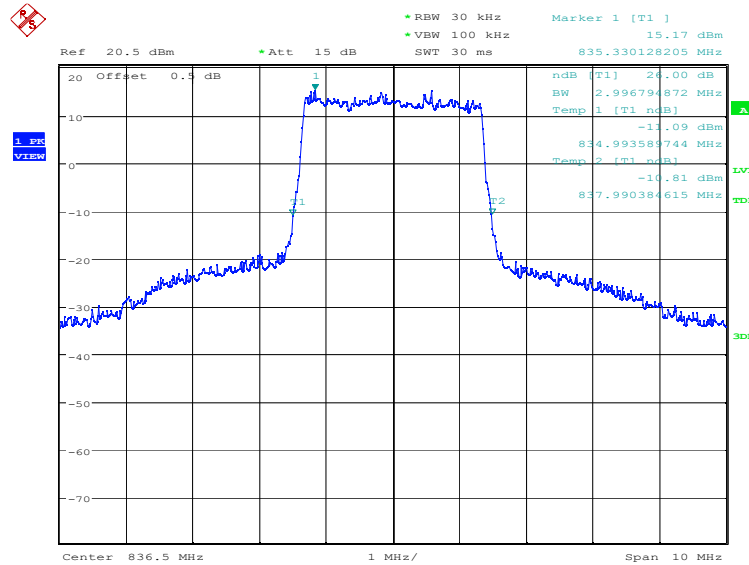


Date: 4.MAR.2022 11:09:21

LTE band 26(824MHz~849MHz), 3MHz (-26dBc)

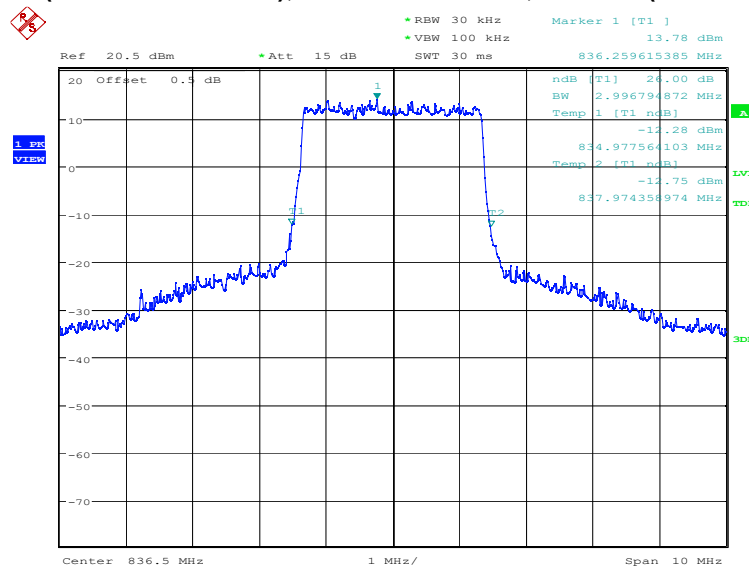
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	2996.79	2996.79

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:10:05

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, 16QAM (-26dBc BW)

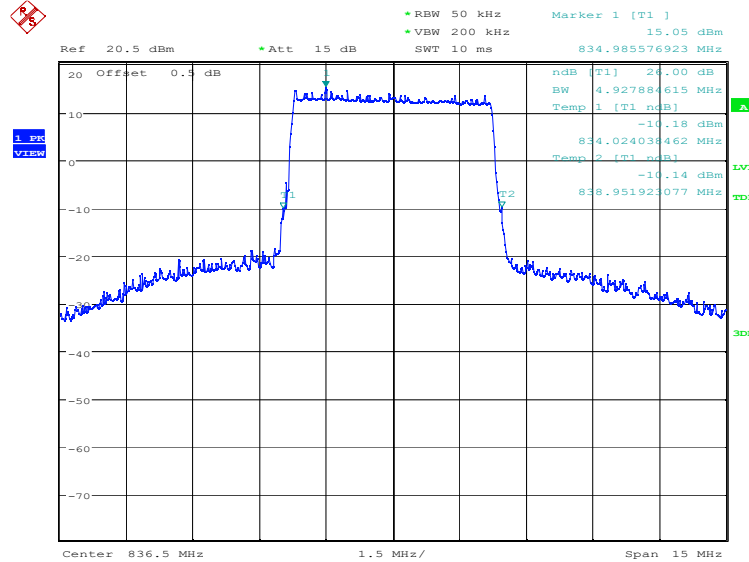


Date: 4.MAR.2022 11:10:45

LTE band 26(824MHz~849MHz), 5MHz (-26dBc)

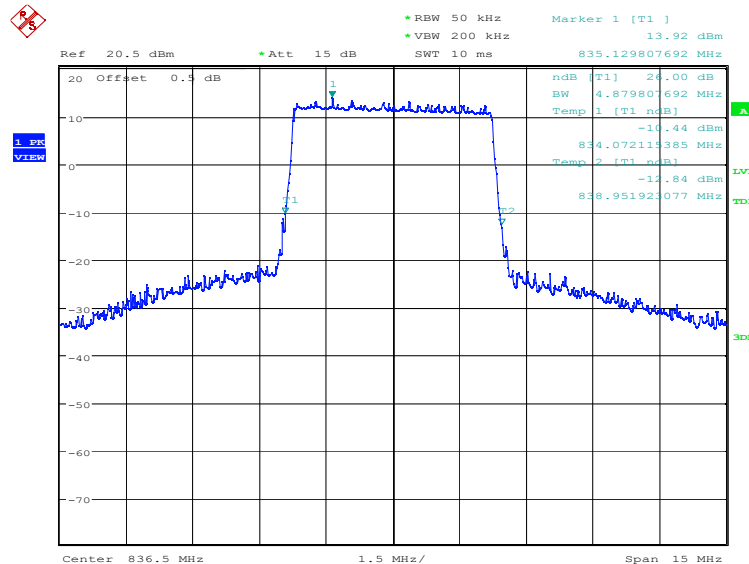
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	4927.88	4879.81

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:11:28

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, 16QAM (-26dBc BW)

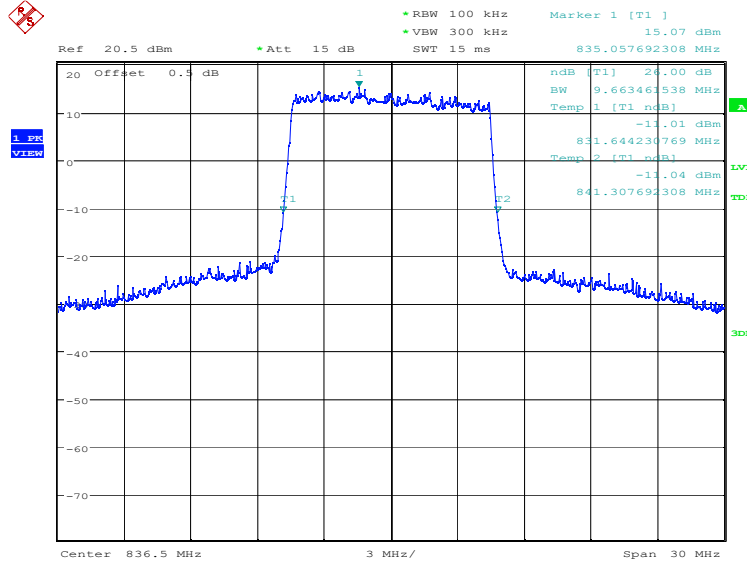


Date: 4.MAR.2022 11:12:08

LTE band 26(824MHz~849MHz), 10MHz (-26dBc)

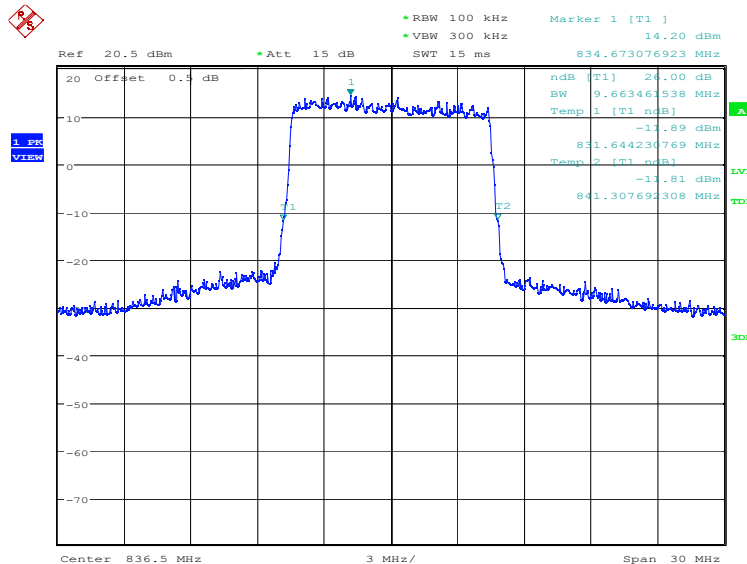
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	9663.46	9663.46

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:12:52

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, 16QAM (-26dBc BW)

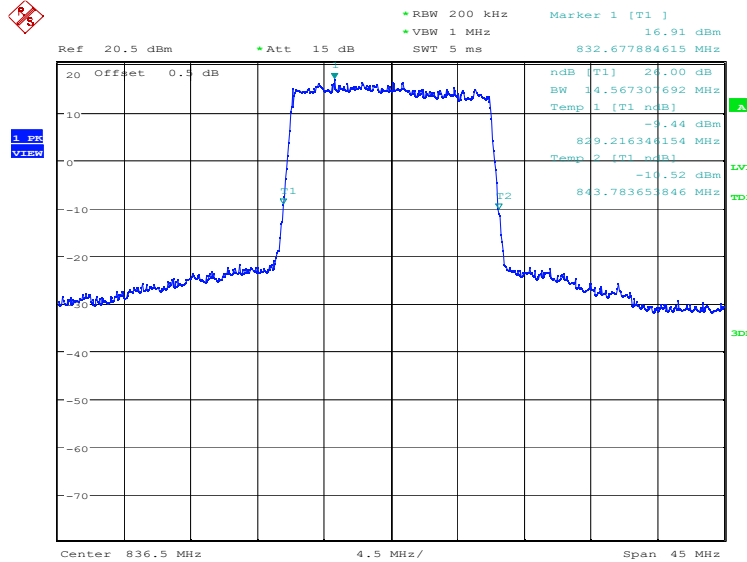


Date: 4.MAR.2022 11:13:32

LTE band 26(824MHz~849MHz), 15MHz (-26dBc)

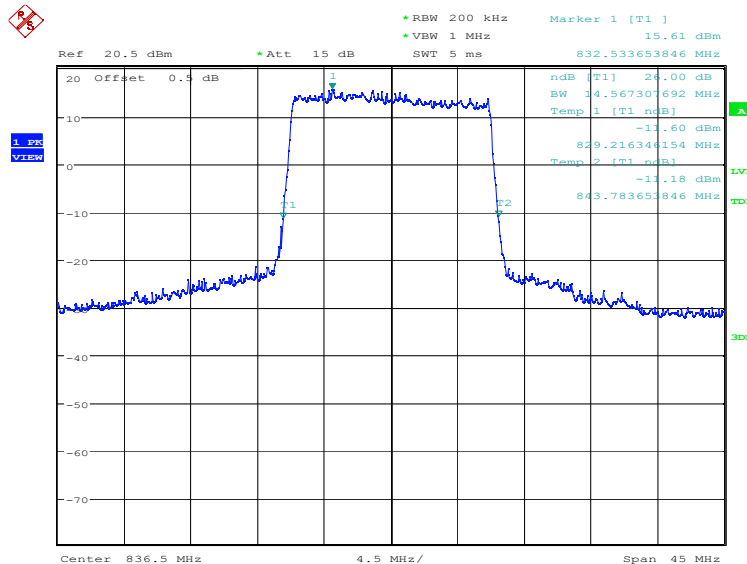
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	14567.31	14567.31

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:14:16

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, 16QAM (-26dBc BW)

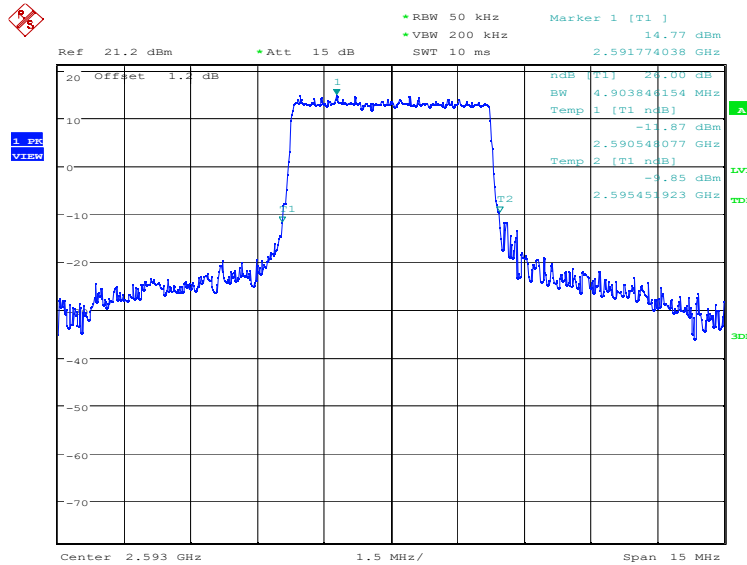


Date: 4.MAR.2022 11:14:55

LTE band 41, 5MHz (-26dBc)

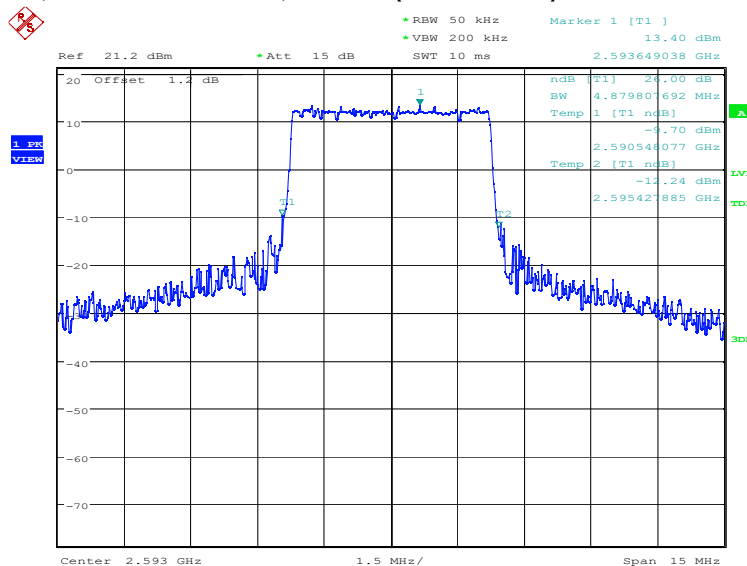
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	4903.85	4879.81

LTE band 41, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 5.MAR.2022 13:14:06

LTE band 41, 5MHz Bandwidth, 16QAM (-26dBc BW)

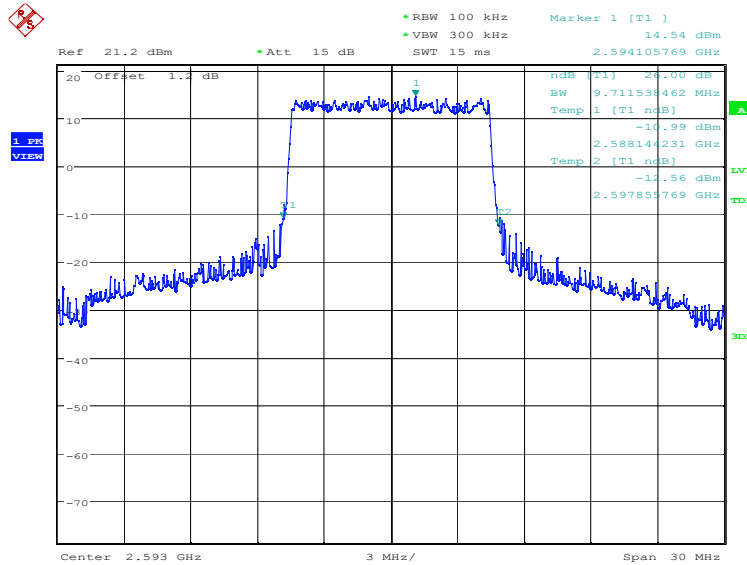


Date: 5.MAR.2022 13:14:46

LTE band 41, 10MHz (-26dBc)

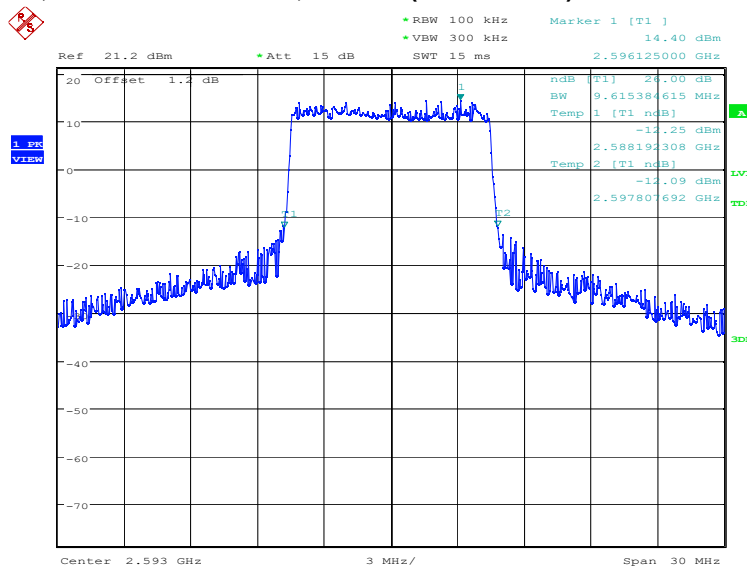
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	9711.54	9615.38

LTE band 41, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 5.MAR.2022 13:15:29

LTE band 41, 10MHz Bandwidth,16QAM (-26dBc BW)

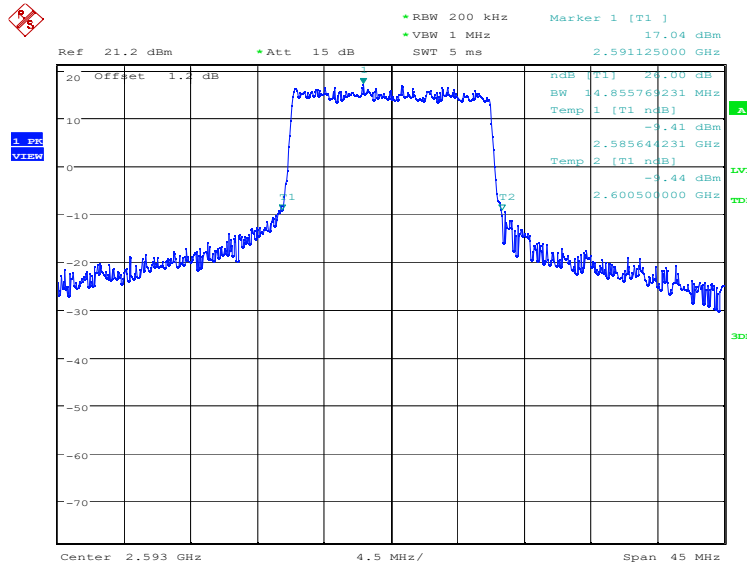


Date: 5.MAR.2022 13:16:08

LTE band 41, 15MHz (-26dBc)

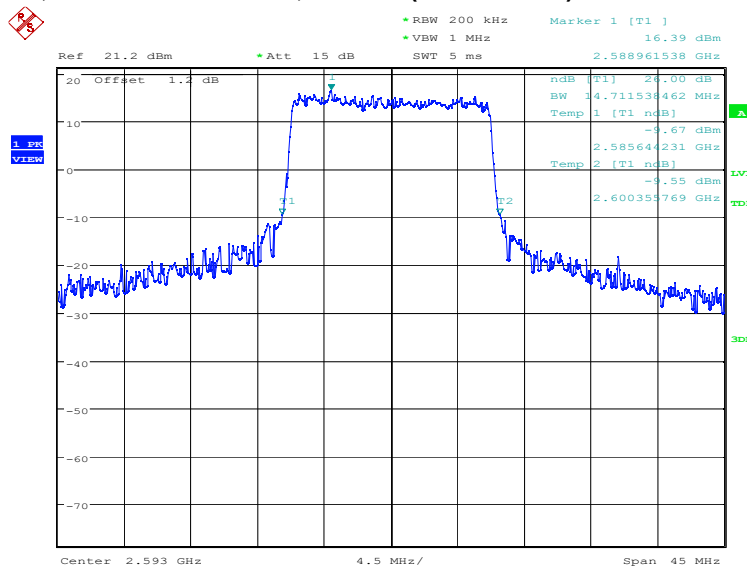
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	14855.77	14711.54

LTE band 41, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 5.MAR.2022 13:16:51

LTE band 41, 15MHz Bandwidth, 16QAM (-26dBc BW)

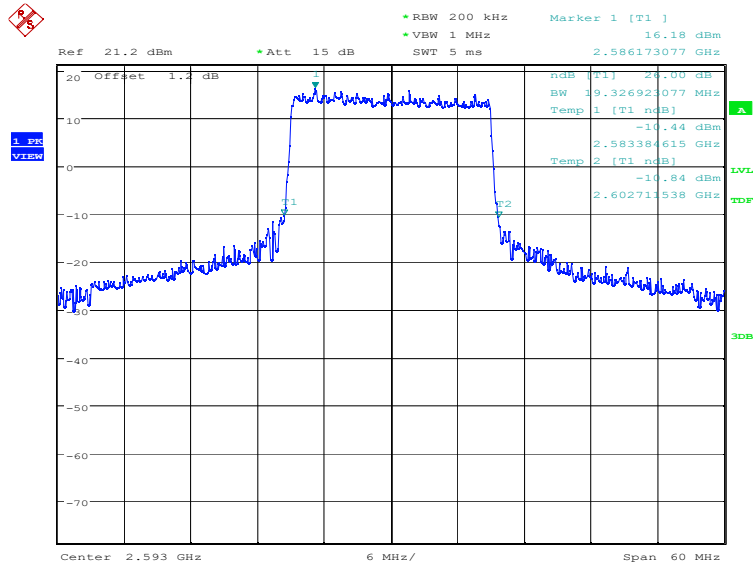


Date: 5.MAR.2022 13:17:31

LTE band 41, 20MHz (-26dBc)

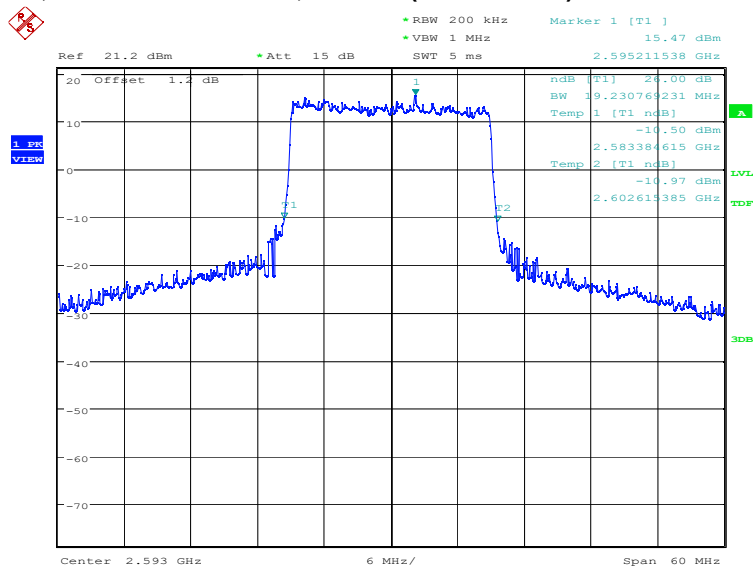
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	19326.92	19230.77

LTE band 41, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 5.MAR.2022 13:18:14

LTE band 41, 20MHz Bandwidth,16QAM (-26dBc BW)

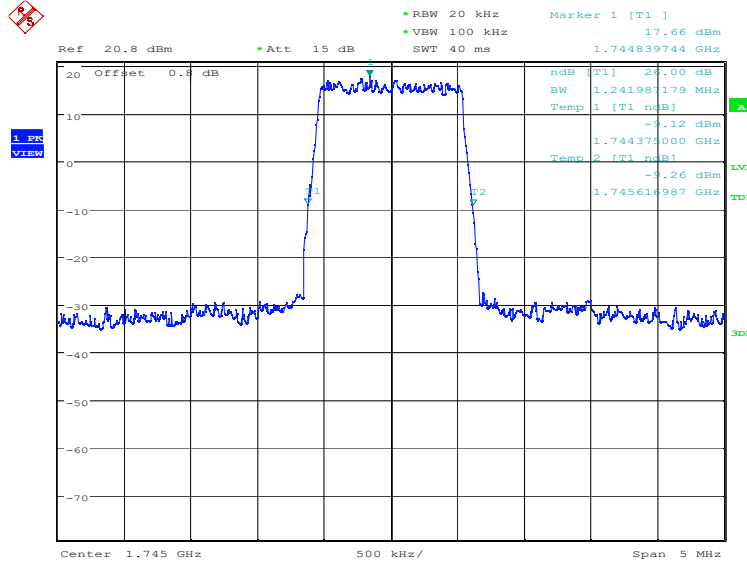


Date: 5.MAR.2022 13:18:53

LTE band 66, 1.4MHz (-26dBc)

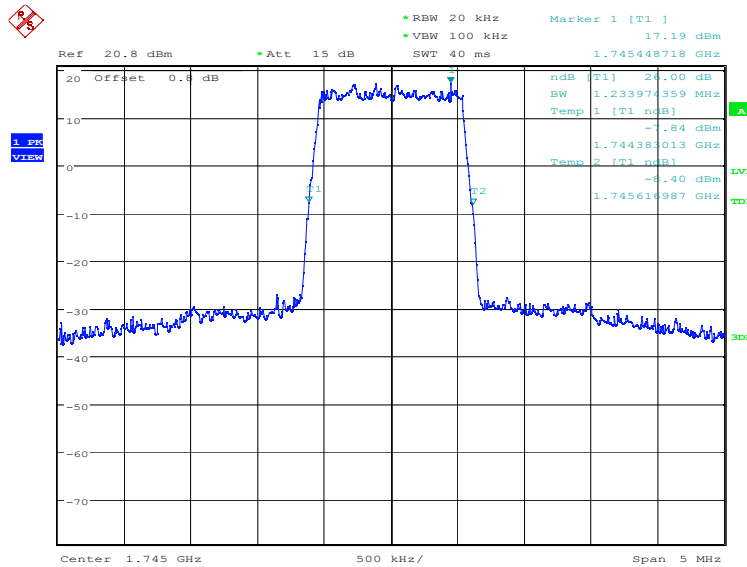
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	1241.99	1233.97

LTE band 66, 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:21:59

LTE band 66, 1.4MHz Bandwidth, 16QAM (-26dBc BW)

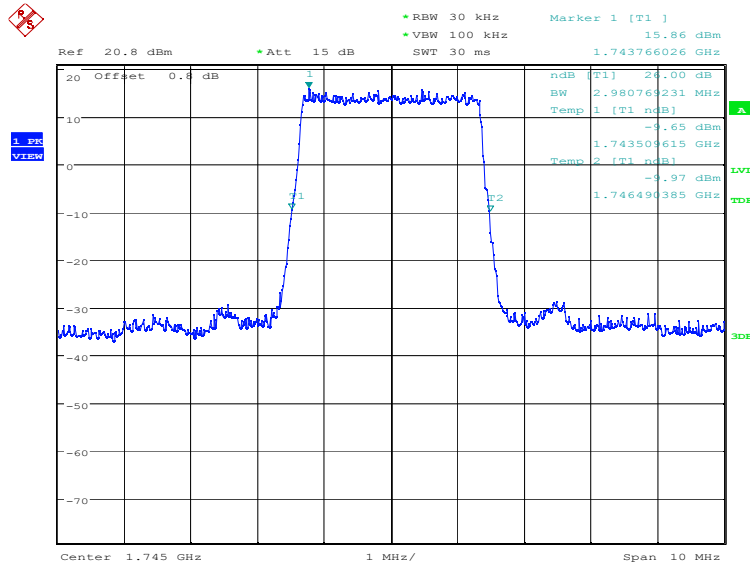


Date: 4.MAR.2022 11:22:39

LTE band 66, 3MHz (-26dBc)

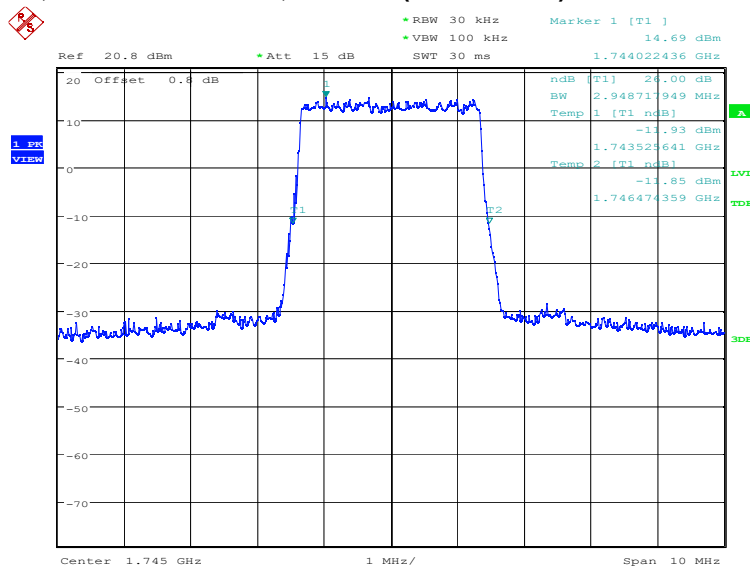
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	2980.77	2948.72

LTE band 66, 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:23:23

LTE band 66, 3MHz Bandwidth, 16QAM (-26dBc BW)

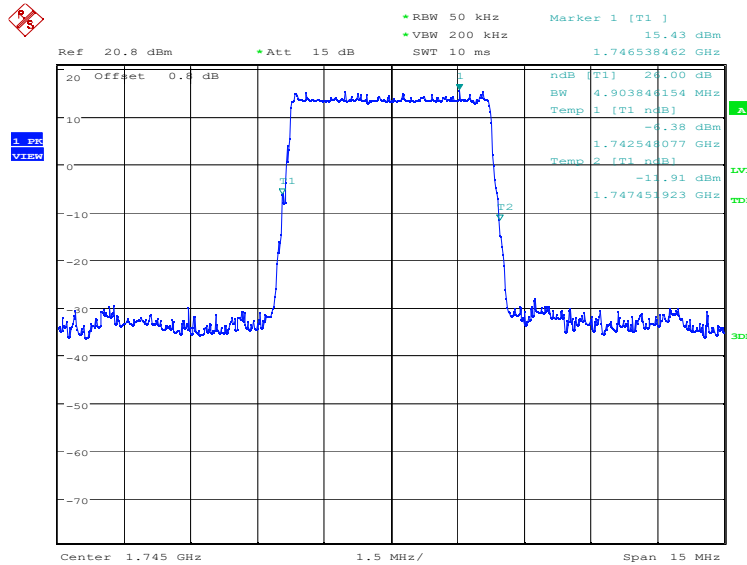


Date: 4.MAR.2022 11:24:03

LTE band 66, 5MHz (-26dBc)

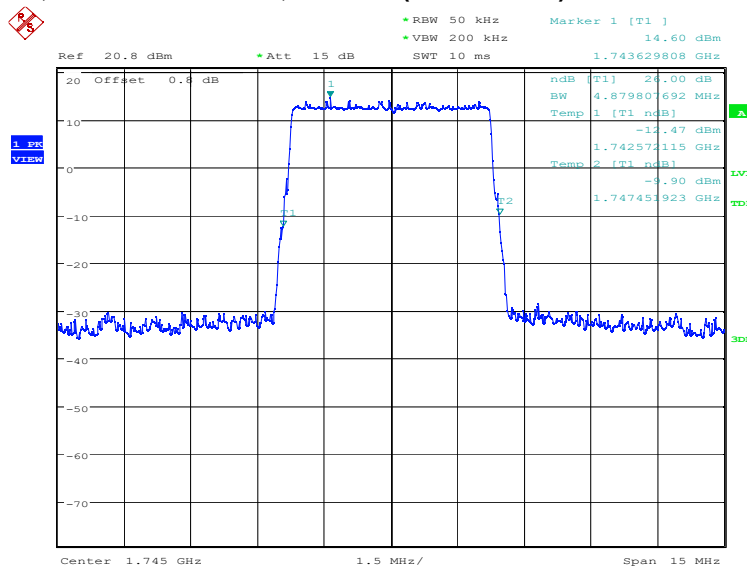
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	4903.85	4879.81

LTE band 66, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:24:47

LTE band 66, 5MHz Bandwidth, 16QAM (-26dBc BW)

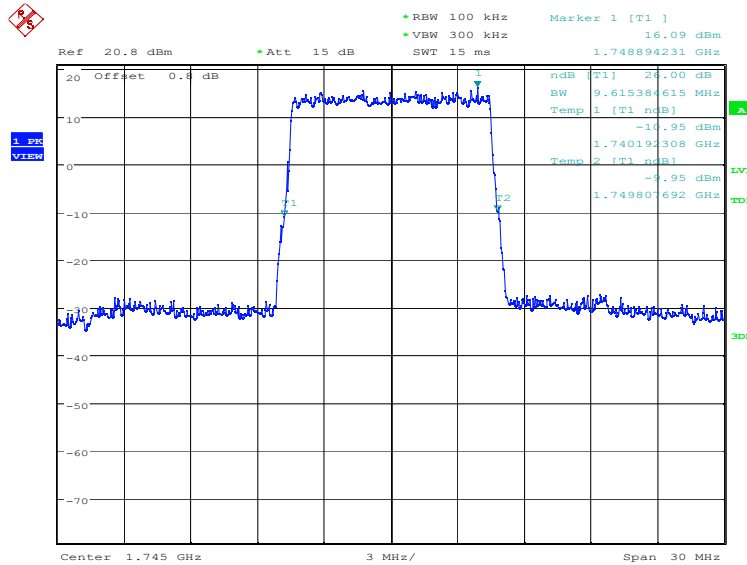


Date: 4.MAR.2022 11:25:27

LTE band 66, 10MHz (-26dBc)

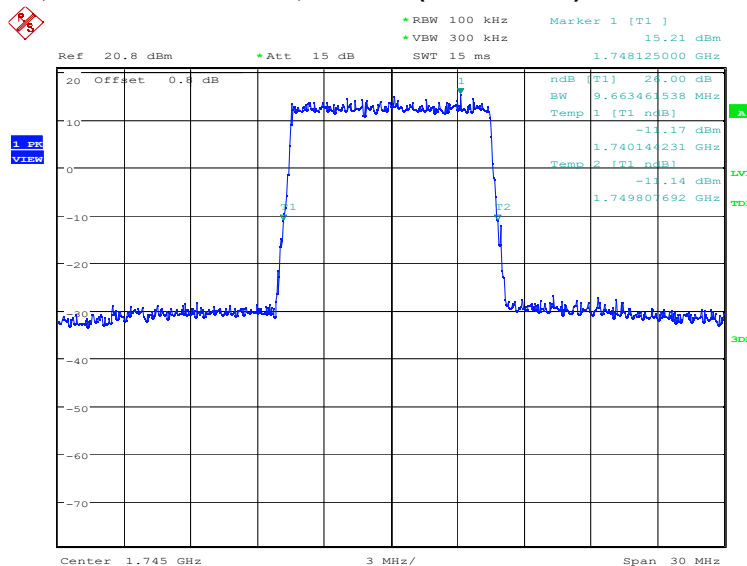
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	9615.38	9663.46

LTE band 66, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:26:11

LTE band 66, 10MHz Bandwidth, 16QAM (-26dBc BW)

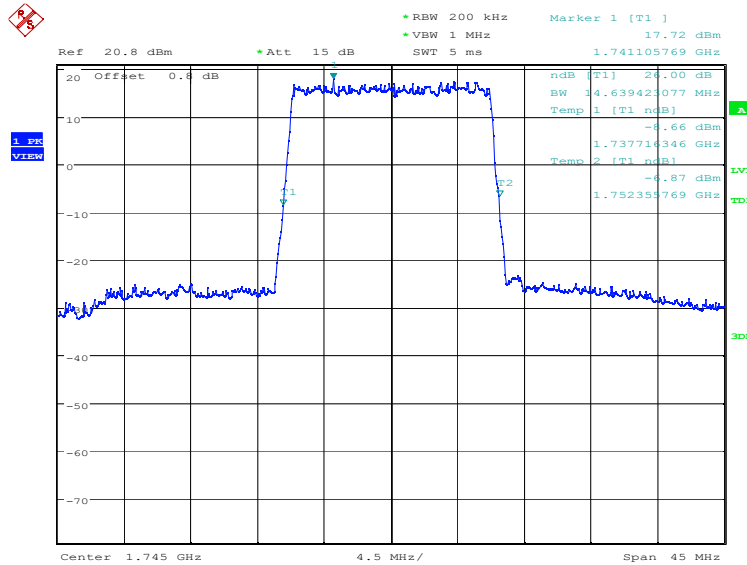


Date: 4.MAR.2022 11:26:51

LTE band 66, 15MHz (-26dBc)

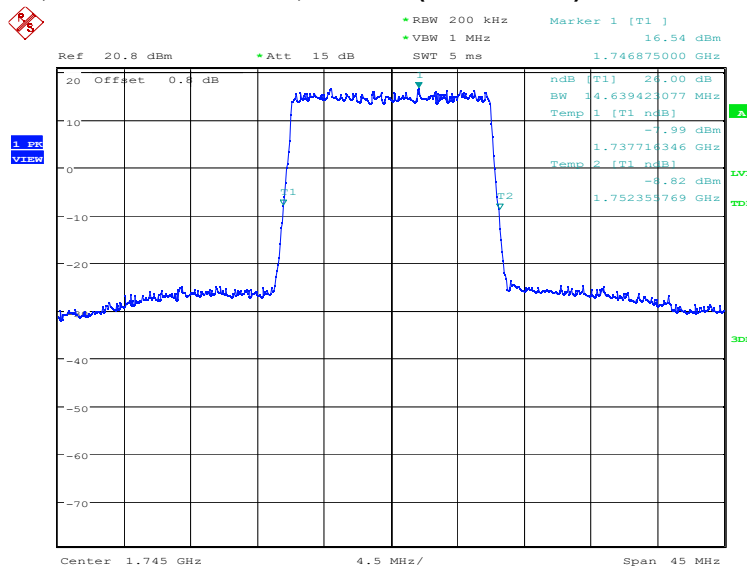
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	14639.42	14639.42

LTE band 66, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 11:27:34

LTE band 66, 15MHz Bandwidth, 16QAM (-26dBc BW)

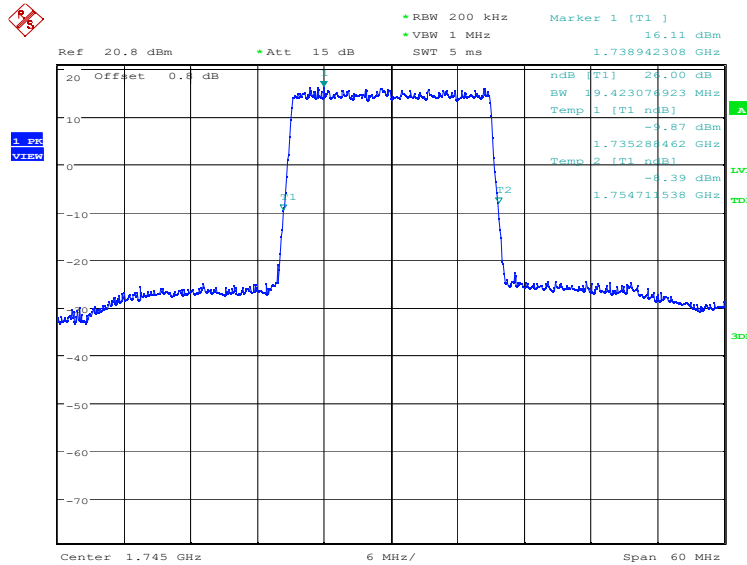


Date: 4.MAR.2022 11:28:14

LTE band 66, 20MHz (-26dBc)

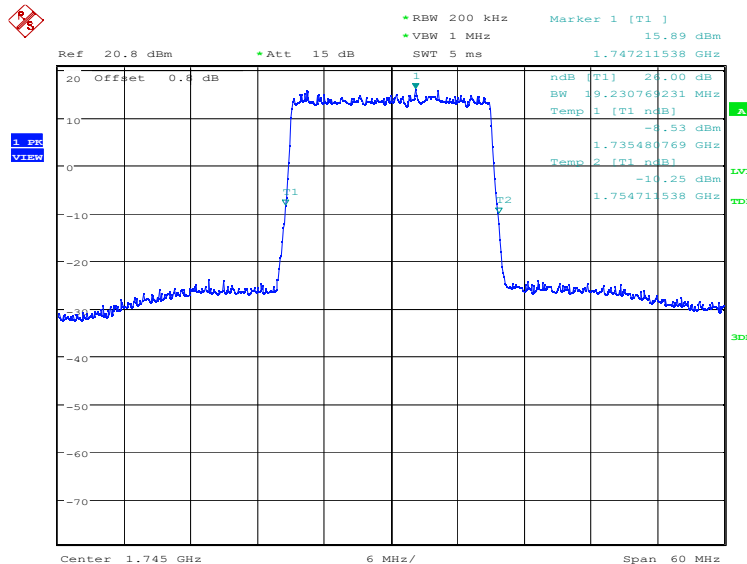
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	19423.08	19230.77

LTE band 66, 20MHz Bandwidth, QPSK (-26dB BW)



Date: 4.MAR.2022 11:28:58

LTE band 66, 20MHz Bandwidth, 16QAM (-26dB BW)

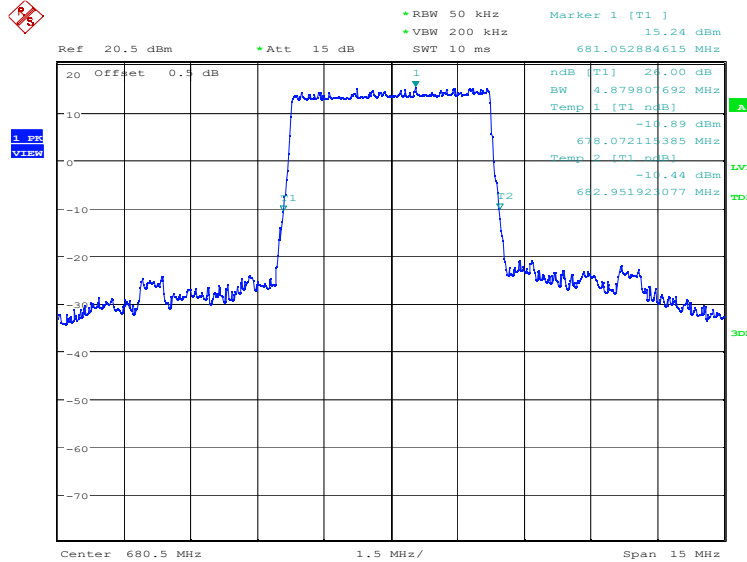


Date: 4.MAR.2022 11:29:38

LTE band 71, 5MHz (-26dBc)

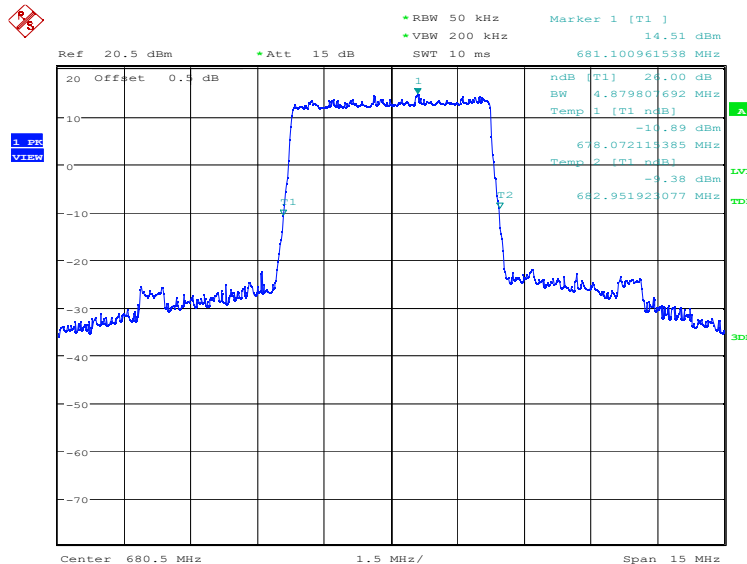
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	4879.81	4879.81

LTE band 71, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 13:50:03

LTE band 71, 5MHz Bandwidth, 16QAM (-26dBc BW)

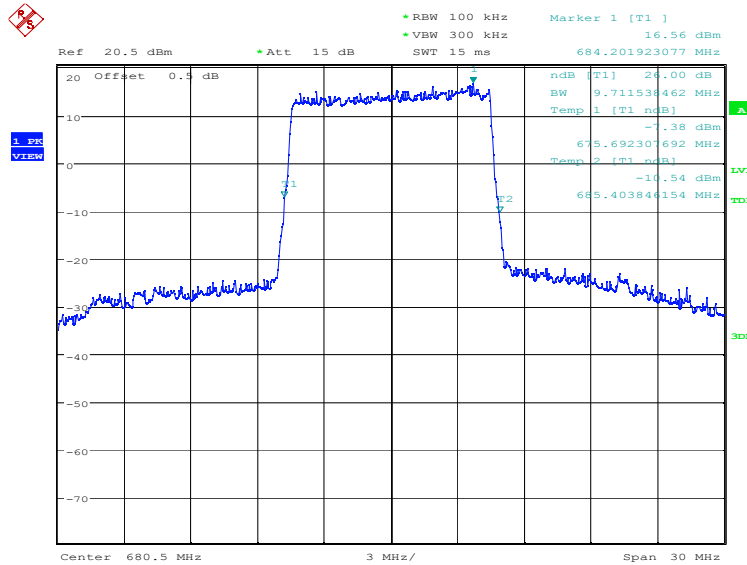


Date: 4.MAR.2022 13:50:42

LTE band 71, 10MHz (-26dBc)

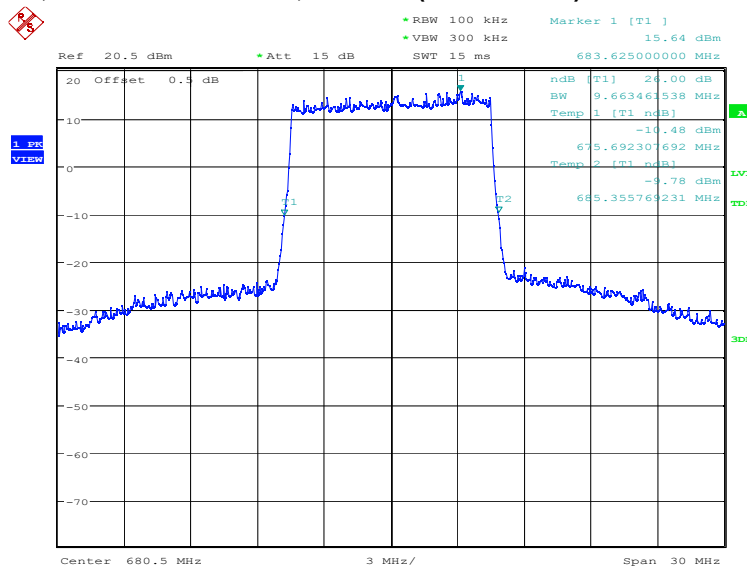
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	9711.54	9663.46

LTE band 71, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 13:51:27

LTE band 71, 10MHz Bandwidth, 16QAM (-26dBc BW)

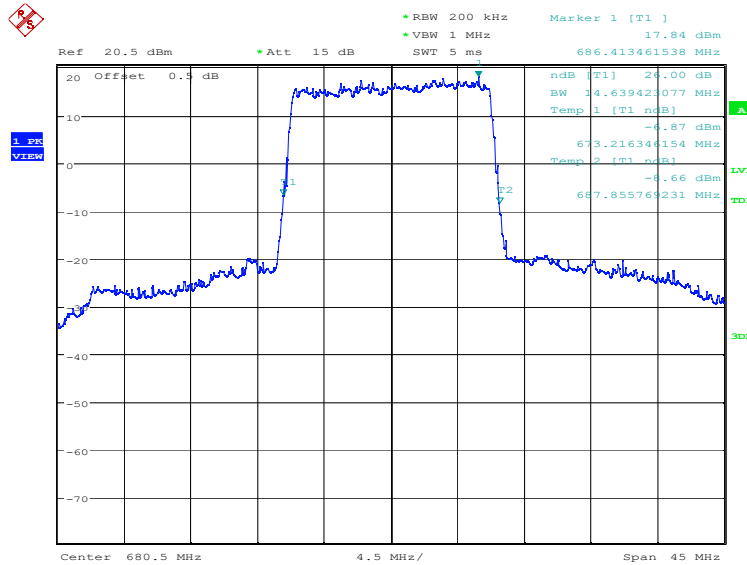


Date: 4.MAR.2022 13:52:07

LTE band 71, 15MHz (-26dBc)

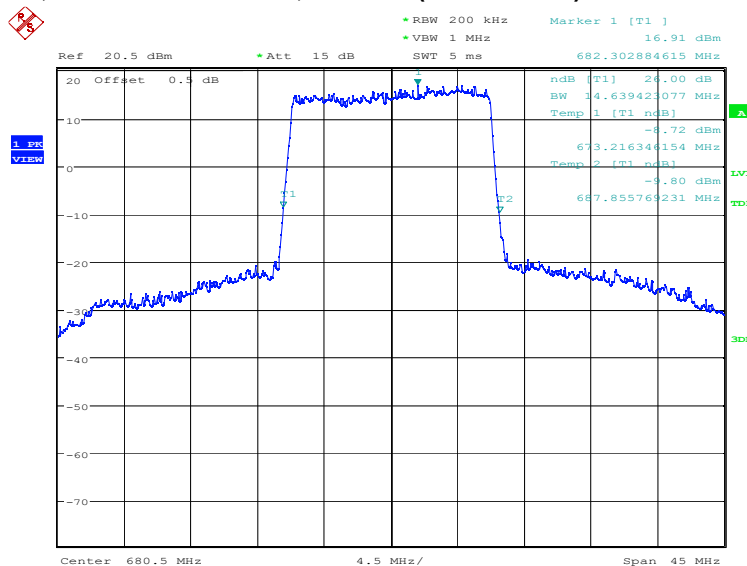
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	14639.42	14639.42

LTE band 71, 15MHz Bandwidth, QPSK (-26dB BW)



Date: 4.MAR.2022 13:52:52

LTE band 71, 15MHz Bandwidth, 16QAM (-26dB BW)

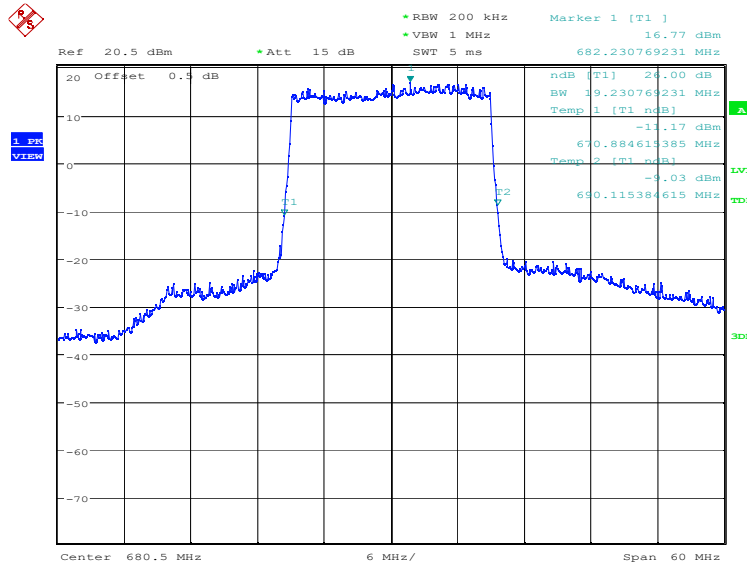


Date: 4.MAR.2022 13:53:32

LTE band 71, 20MHz (-26dBc)

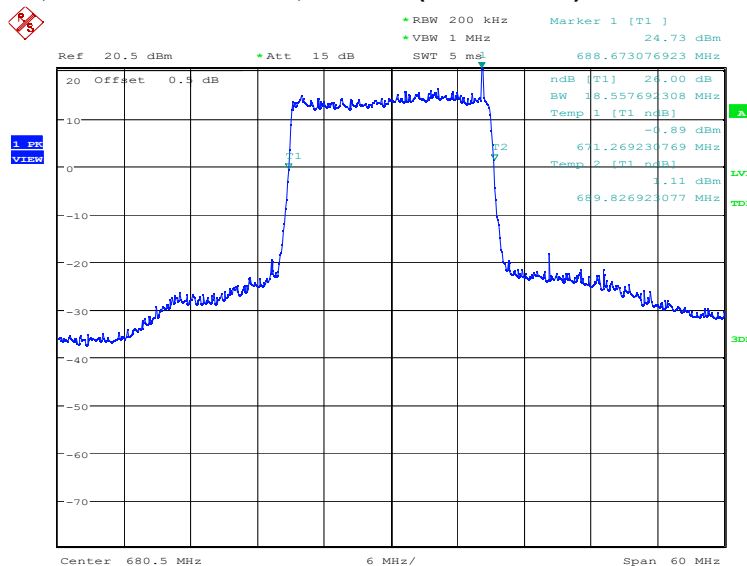
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	19230.77	18557.69

LTE band 71, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 4.MAR.2022 13:54:17

LTE band 71, 20MHz Bandwidth, 16QAM (-26dBc BW)

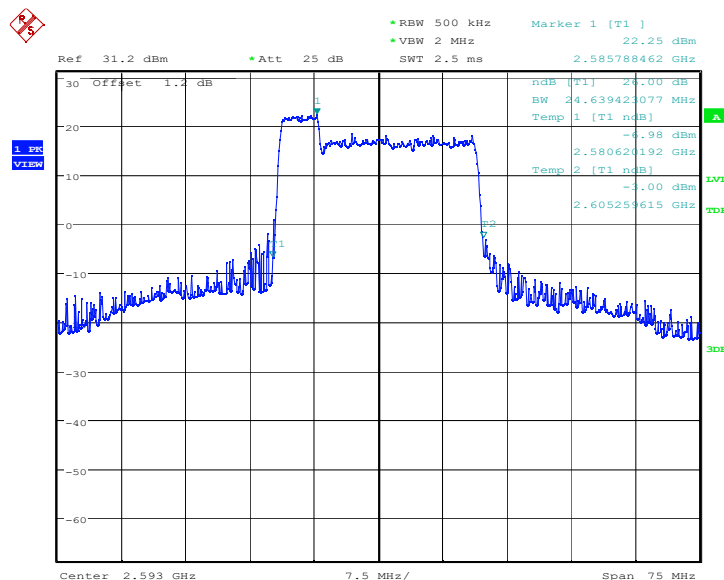


Date: 4.MAR.2022 13:54:57

LTE CA Band 41C , 5MHz+20MHz (-26dBc)

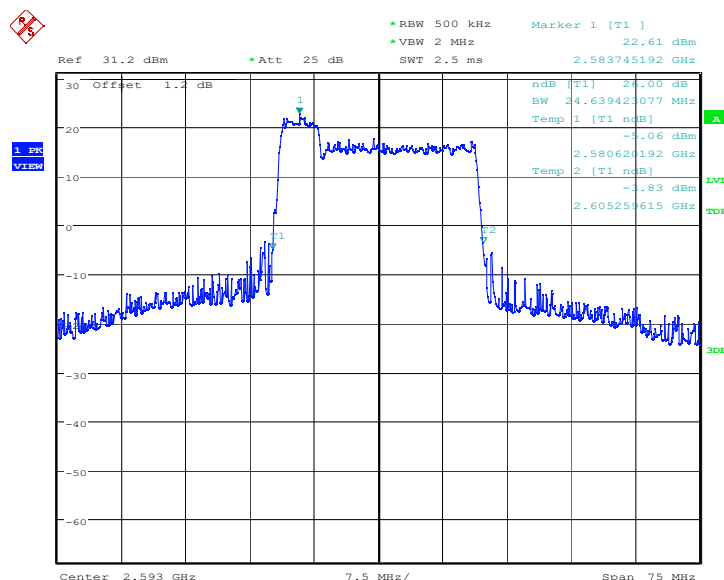
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2583.8	24.639	24.639

LTE CA Band 41C , 5MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 9.MAR.2022 15:26:26

LTE CA Band 41C , 5MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

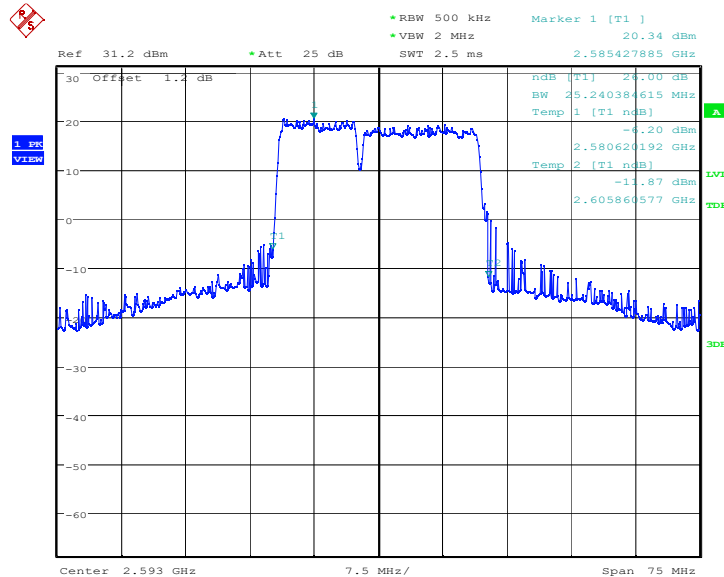


Date: 9.MAR.2022 15:26:48

LTE CA Band 41C , 10MHz+15MHz (-26dBc)

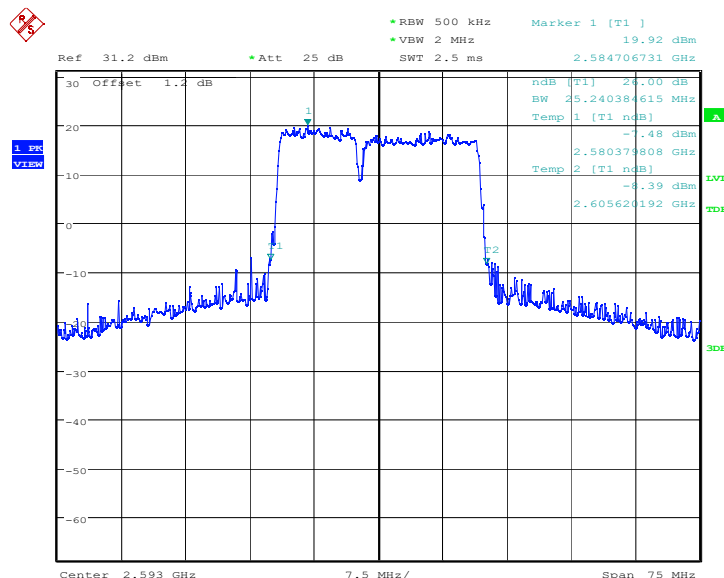
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2585.9	25.240	25.240

LTE CA Band 41C , 10MHz+15MHz Bandwidth, QPSK (-26dBc BW)



Date: 9.MAR.2022 15:27:52

LTE CA Band 41C , 10MHz+15MHz Bandwidth, 16QAM (-26dBc BW)

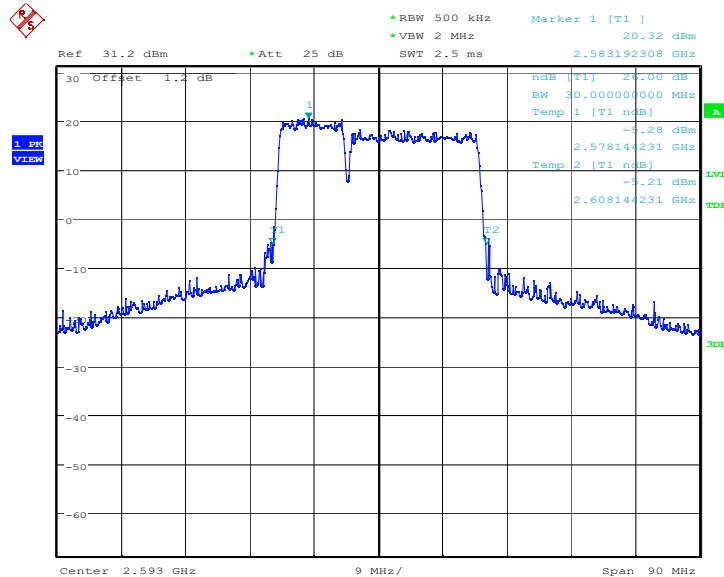


Date: 9.MAR.2022 15:28:14

LTE CA Band 41C , 10MHz+20MHz (-26dBc)

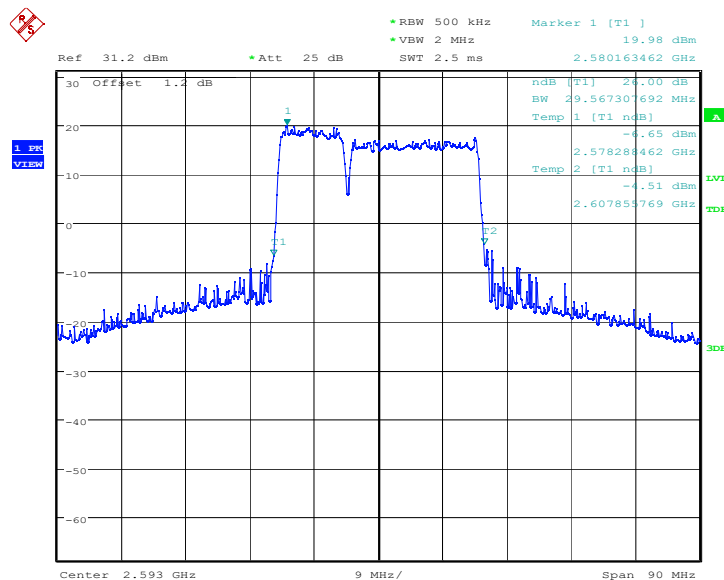
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2583.6	30.000	29.567

LTE CA Band 41C , 10MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 9.MAR.2022 15:29:15

LTE CA Band 41C , 10MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

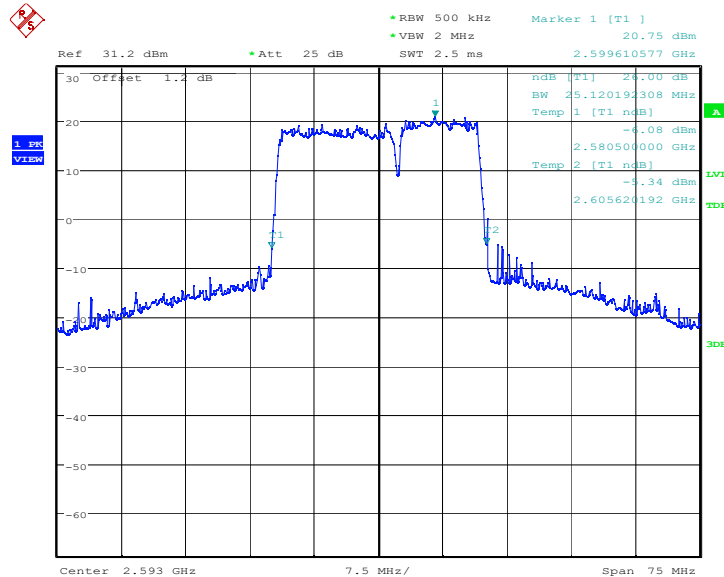


Date: 9.MAR.2022 15:29:37

LTE CA Band 41C , 15MHz+10MHz (-26dBc)

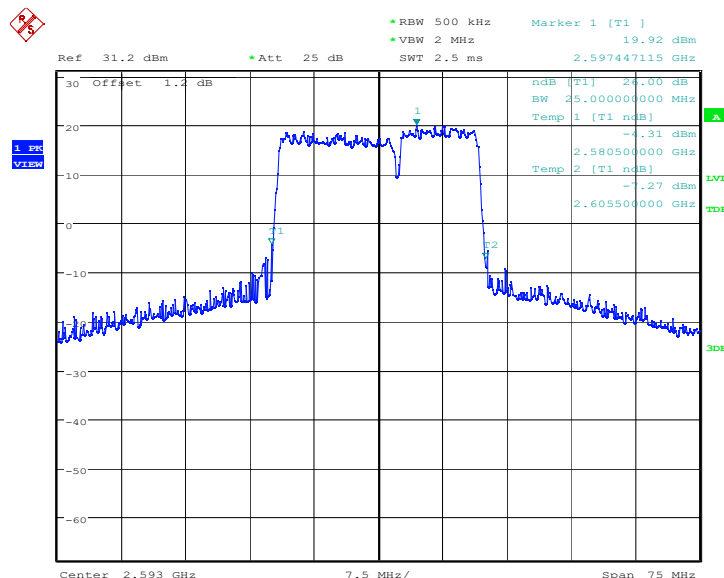
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2588.1	25.120	25.000

LTE CA Band 41C , 15MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 9.MAR.2022 15:30:42

LTE CA Band 41C , 15MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

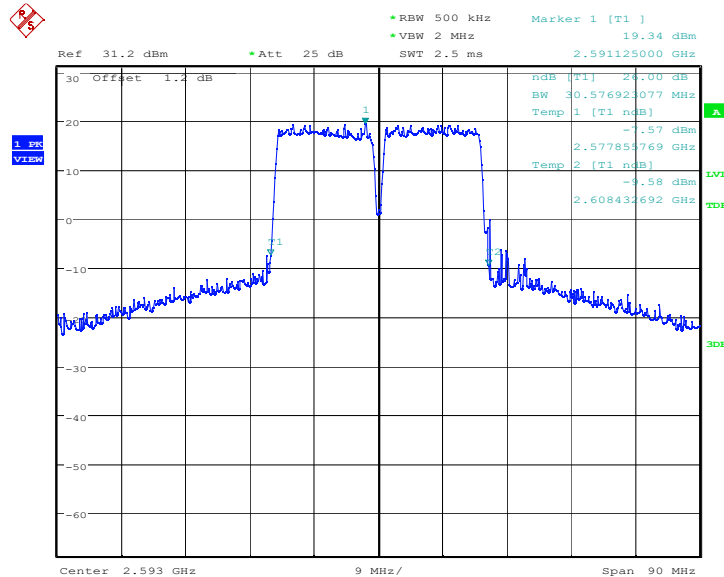


Date: 9.MAR.2022 15:31:04

LTE CA Band 41C , 15MHz+15MHz (-26dBc)

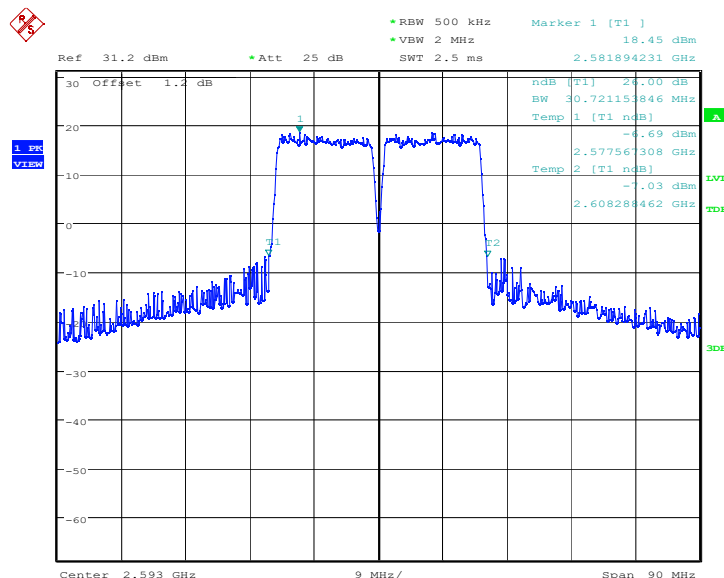
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2585.5	30.577	30.721

LTE CA Band 41C , 15MHz+15MHz Bandwidth, QPSK (-26dBc BW)



Date: 9.MAR.2022 15:32:05

LTE CA Band 41C , 15MHz+15MHz Bandwidth, 16QAM (-26dBc BW)

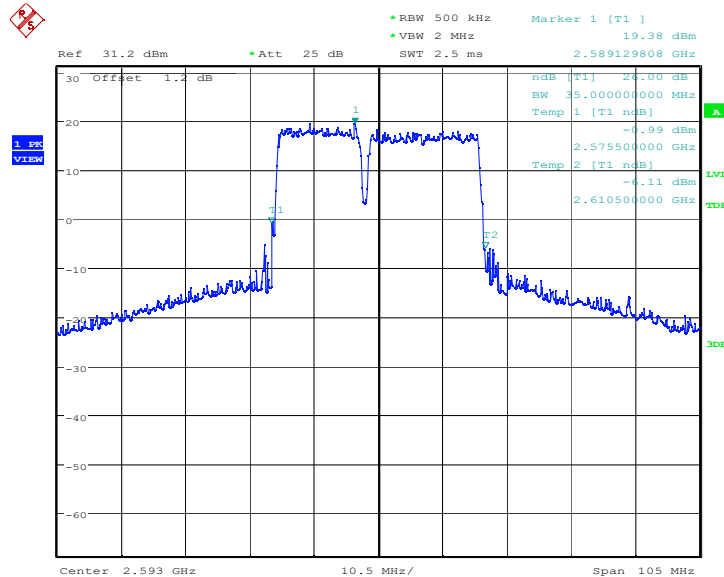


Date: 9.MAR.2022 15:32:27

LTE CA Band 41C , 15MHz+20MHz (-26dBc)

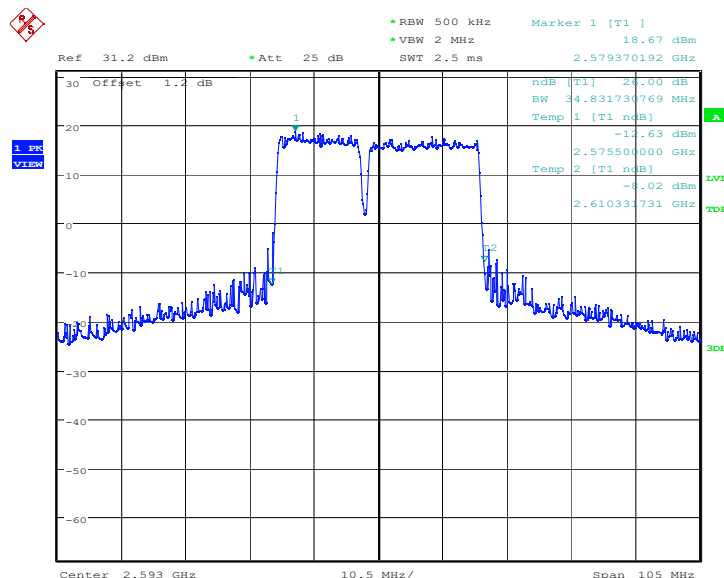
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2583.3	35.000	34.832

LTE CA Band 41C , 15MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 9.MAR.2022 15:33:28

LTE CA Band 41C , 15MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

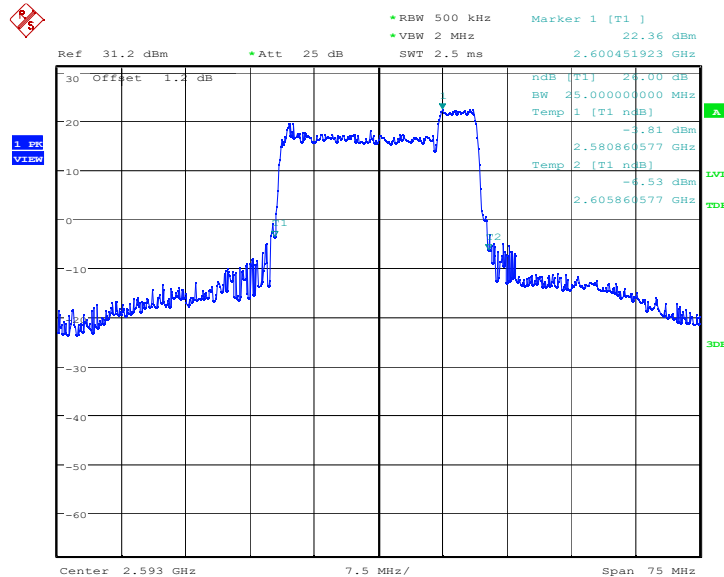


Date: 9.MAR.2022 15:33:50

LTE CA Band 41C , 20MHz+5MHz (-26dBc)

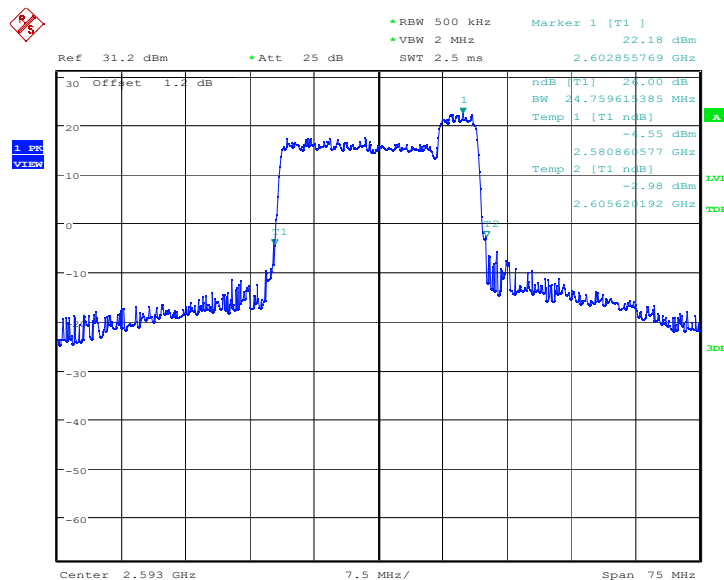
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2590.5	25.000	24.760

LTE CA Band 41C , 20MHz+5MHz Bandwidth, QPSK (-26dBc BW)



Date: 9.MAR.2022 15:34:54

LTE CA Band 41C , 20MHz+5MHz Bandwidth, 16QAM (-26dBc BW)

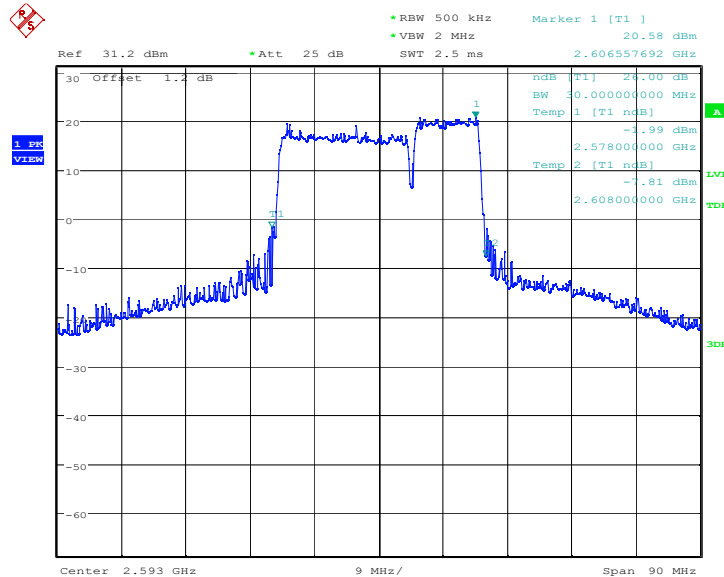


Date: 9.MAR.2022 15:35:16

LTE CA Band 41C , 20MHz+10MHz (-26dBc)

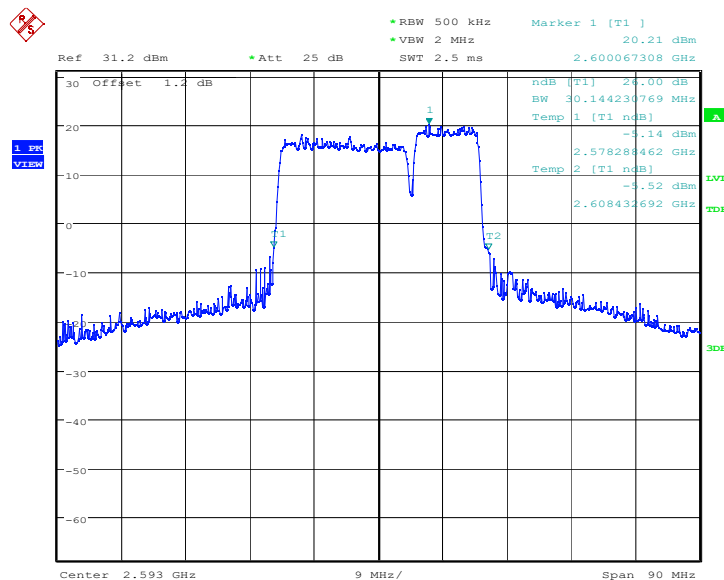
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2588.1	30.000	30.144

LTE CA Band 41C , 20MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 9.MAR.2022 15:36:17

LTE CA Band 41C , 20MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

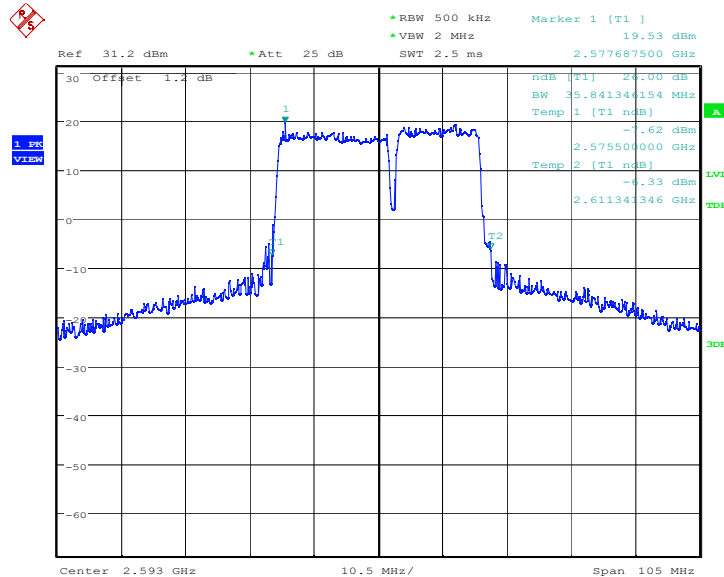


Date: 9.MAR.2022 15:36:39

LTE CA Band 41C , 20MHz+15MHz (-26dBc)

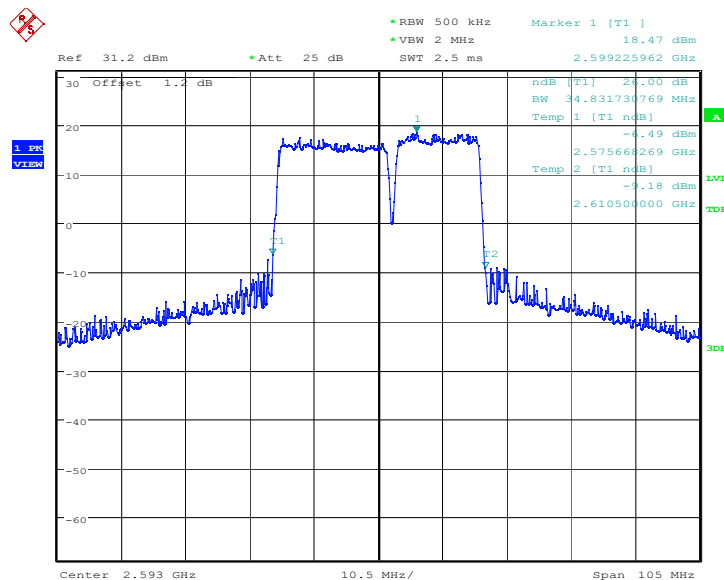
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2585.6	35.841	34.832

LTE CA Band 41C , 20MHz+15MHz Bandwidth, QPSK (-26dBc BW)



Date: 9.MAR.2022 15:37:40

LTE CA Band 41C , 20MHz+15MHz Bandwidth, 16QAM (-26dBc BW)



Date: 9.MAR.2022 15:38:02