



TEST REPORT

No. I21Z62045-WMD03

for

TCL Communication Ltd.

5G NR/LTE/WCDMA/GSM mobile phone

Model Name: T779W

FCC ID: 2ACCJN058

with

Hardware Version: 03

Software Version: 6E3Z

Issued Date: 2021-12-07

Note:

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

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I21Z62045-WMD03	Rev.0	1 st edition	2021-12-07

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: 2021-10-18
Testing End Date: 2021-12-06

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: TCL Communication Ltd.
Address /Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
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2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address /Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
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Email: zhizhou.gong@tcl.com
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	5G NR/LTE/WCDMA/GSM mobile phone
Model Name	T779W
FCC ID	2ACCJN058
Antenna	Embedded
Output power	23.40dBm maximum EIRP measured for LTE Band 41
Extreme vol. Limits	3.5VDC to 4.45VDC (nominal: 3.87VDC)
Extreme temp. Tolerance	-10°C to +55°C
LTE Frequency Band	FDD1/FDD2/FDD3/FDD4/FDD5/FDD7/FDD8/FDD12/FDD13 /FDD20/FDD25/FDD26/FDD28/TDD38/TDD39/TDD40/TDD 41/FDD66/FDD71
LTE UL CA Frequency Band	CA_41C, CA_CA_2A-4A, CA_2A-12A, CA_12A-66A, CA_2A-66A
LTE DL CA Frequency Band	CA_4A-12A, CA_2A-4A, CA_4A-4A, CA_4A-5A, CA_66A-66A, CA_66B, CA_66C, CA_2A-66A, CA_12A-66A, CA_2A-12A, CA_2A-2A, CA_2C, CA_2A-5A, CA_41C, CA_41A-41A, CA_25A-25A, CA_25A-26A, CA_25A-41A, CA_5A-66A, CA_2A-71A, CA_4A-71A, CA_66A-71A

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
UT14a	016099000005342	03	6E3Z	2021-10-18
UT38a	016099000009096	03	6E3Z	2021-11-01

*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
Model	TLp038E1
Manufacturer	BYD
Capacitance	3880mAh

*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

Control room / conducted chamber did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 80 %
Shielding effectiveness	> 110 dB
Electrical insulation	>2 MΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber 2 (8.6 meters×6.1 meters×3.85 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	>2 MΩ
Ground system resistance	< 1 Ω
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

Semi-anechoic chamber 2 / Fully-anechoic chamber 3 (10 meters×6.7 meters×6.15 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	>2 MΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	<±3.5 dB, 3 m distance
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

6. Summary Of Test Result

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 7

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

LTE Band 12

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

LTE Band 13

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

LTE Band 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) (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 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

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.

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

LTE Band 41 is tested by power class 2.

Explanation of worst-case configuration

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

Only Band Edge Compliance and Emission Limit are measured for inter-band CA, since the power of each carrier in the inter-band CA combination is lower than that in the case of single carrier.

7. Test Equipment Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Wideband Radio Communication Tester	CMW500	159082	R&S	2021-12-17	1 year
Spectrum Analyzer	FSU	200030	R&S	2022-06-02	1 year
Climate Chamber	SH-242	93008556	ESPEC	2023-12-23	3 years
EMI Antenna	LB-7180-NF	2030013000041	A-info	2022-02-02	1 year
Test Receiver	E4440A	MY48250642	Agilent	2022-03-04	1 year
Universal Radio Communication Tester	CMW500	159408	R&S	2022-03-08	1 year
EMI Antenna	VULB9163	9163-235	Schwarzbeck	2022-04-07	1 year
Signal Generator	N5183A	MY49060052	Agilent	2022-07-11	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	23.48	22.73	21.73
		1880.0	23.50	22.72	21.76
		1850.7	23.53	22.64	21.69
	1 RB low	1909.3	23.48	22.73	21.77
		1880.0	23.52	22.70	21.79
		1850.7	23.53	22.62	21.66
	50% RB mid	1909.3	23.50	22.78	21.89
		1880.0	23.57	22.74	21.66
		1850.7	23.67	22.77	21.73
	100% RB	1909.3	22.58	21.60	20.99
		1880.0	22.60	21.90	20.81
		1850.7	22.62	21.92	20.82
3MHz	1 RB high	1908.5	23.52	22.60	21.59
		1880.0	23.58	22.64	21.63
		1851.5	23.62	22.67	21.68
	1 RB low	1908.5	23.51	22.60	21.65
		1880.0	23.58	22.66	21.73
		1851.5	23.57	22.65	21.70
	50% RB mid	1908.5	22.57	21.80	20.70
		1880.0	22.54	21.77	20.67
		1851.5	22.61	21.81	20.72

	100% RB	1908.5	22.62	21.73	20.79
		1880.0	22.58	21.71	20.75
		1851.5	22.63	21.75	20.79
5MHz	1 RB high	1907.5	23.66	22.67	21.93
		1880.0	23.66	22.65	21.94
		1852.5	23.66	22.68	21.95
	1 RB low	1907.5	23.64	22.70	21.92
		1880.0	23.65	22.70	21.97
		1852.5	23.70	22.73	22.03
	50% RB mid	1907.5	22.60	21.81	20.80
		1880.0	22.57	21.79	20.75
		1852.5	22.60	21.83	20.80
	100% RB	1907.5	22.62	21.74	20.79
		1880.0	22.62	21.71	20.76
		1852.5	22.64	21.73	20.78
10MHz	1 RB high	1905.0	23.58	22.62	21.57
		1880.0	23.56	22.60	21.59
		1855.0	23.62	22.69	21.57
	1 RB low	1905.0	23.57	22.63	21.59
		1880.0	23.58	22.59	21.60
		1855.0	23.60	22.67	21.64
	50% RB mid	1905.0	22.72	21.87	20.89
		1880.0	22.60	21.85	20.85
		1855.0	22.68	21.83	20.90
	100% RB	1905.0	22.70	21.87	20.80
		1880.0	22.64	21.82	20.76
		1855.0	22.66	21.82	20.78
15MHz	1 RB high	1902.5	23.45	22.88	22.03
		1880.0	23.42	22.87	22.03
		1857.5	23.41	22.78	22.04
	1 RB low	1902.5	23.42	22.87	22.04
		1880.0	23.48	22.95	22.04
		1857.5	23.50	22.95	22.06
	50% RB mid	1902.5	22.58	21.72	20.75
		1880.0	22.56	21.69	20.72
		1857.5	22.57	21.69	20.72
	100% RB	1902.5	22.62	21.72	20.80
		1880.0	22.60	21.74	20.75
		1857.5	22.55	21.69	20.72
20MHz	1 RB high	1900.0	23.57	23.26	21.60
		1880.0	23.51	23.18	21.54
		1860.0	23.56	22.87	21.88



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	1 RB low	1900.0	23.55	23.22	21.55
		1880.0	23.56	23.22	21.59
		1860.0	23.61	22.91	21.92
	50% RB mid	1900.0	22.66	21.81	20.82
		1880.0	22.75	21.78	20.90
		1860.0	22.68	21.82	20.79
	100% RB	1900.0	22.71	21.87	20.84
		1880.0	22.79	21.91	20.92
		1860.0	22.62	21.74	20.76

LTE band 4

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1754.3	23.88	23.06	22.19
		1732.5	23.87	23.15	22.17
		1710.7	23.97	23.16	22.18
	1 RB low	1754.3	23.87	23.05	22.21
		1732.5	23.89	23.16	22.20
		1710.7	23.94	23.14	22.14
	50% RB mid	1754.3	23.88	23.14	22.10
		1732.5	23.88	23.23	22.21
		1710.7	24.04	23.34	22.14
	100% RB	1754.3	22.93	21.97	21.30
		1732.5	23.00	22.02	21.41
		1710.7	23.17	22.33	21.20
3MHz	1 RB high	1753.5	23.89	22.92	22.03
		1732.5	23.93	23.00	22.06
		1711.5	24.05	23.09	22.24
	1 RB low	1753.5	23.91	22.99	22.15
		1732.5	23.92	23.05	22.12
		1711.5	23.99	23.22	22.23
	50% RB mid	1753.5	22.89	22.11	21.01
		1732.5	23.09	22.17	21.05
		1711.5	23.17	22.22	21.10
	100% RB	1753.5	22.94	22.03	21.13
		1732.5	23.13	22.08	21.15
		1711.5	23.17	22.11	21.21
5MHz	1 RB high	1752.5	23.97	22.98	22.36
		1732.5	24.02	23.04	22.39
		1712.5	24.07	23.21	22.46
	1 RB low	1752.5	24.03	23.02	22.44
		1732.5	24.02	23.10	22.39
		1712.5	24.10	23.23	22.51
	50% RB mid	1752.5	22.91	22.13	21.10
		1732.5	22.95	22.18	21.12
		1712.5	23.13	22.22	21.15
	100% RB	1752.5	22.96	22.04	21.12
		1732.5	22.97	22.08	21.15
		1712.5	23.19	22.12	21.19
10MHz	1 RB high	1750.0	23.94	22.97	22.05
		1732.5	23.94	23.06	22.06
		1715.0	24.02	23.10	22.20

	1 RB low	1750.0	23.94	22.98	22.07
		1732.5	24.01	23.06	22.09
		1715.0	24.04	23.17	22.16
	50% RB mid	1750.0	22.97	22.14	21.17
		1732.5	23.07	22.18	21.14
		1715.0	23.19	22.26	21.23
	100% RB	1750.0	23.02	22.17	21.19
		1732.5	23.07	22.13	21.06
		1715.0	23.22	22.20	21.14
15MHz	1 RB high	1747.5	23.77	23.26	22.29
		1732.5	23.78	23.28	22.33
		1717.5	23.81	23.47	22.32
	1 RB low	1747.5	23.78	23.32	22.32
		1732.5	23.82	23.32	22.40
		1717.5	23.92	23.54	22.44
	50% RB mid	1747.5	22.94	22.11	21.09
		1732.5	22.92	22.07	21.07
		1717.5	23.11	22.09	21.12
	100% RB	1747.5	22.97	22.07	21.14
		1732.5	23.05	22.07	21.09
		1717.5	23.13	22.10	21.17
20MHz	1 RB high	1745.0	23.79	23.45	21.85
		1732.5	23.83	23.51	21.87
		1720.0	23.88	23.59	21.87
	1 RB low	1745.0	23.82	23.55	21.82
		1732.5	23.80	23.64	21.80
		1720.0	23.91	23.68	21.92
	50% RB mid	1745.0	22.94	22.08	21.03
		1732.5	23.03	22.06	20.99
		1720.0	23.26	22.13	21.23
	100% RB	1745.0	23.00	22.12	21.10
		1732.5	23.04	22.02	21.04
		1720.0	23.17	22.15	21.14

LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2567.5	23.02	22.18	21.35
		2535.0	23.07	22.29	21.43
		2502.5	23.34	22.29	21.33
	1 RB low	2567.5	23.03	22.23	21.38
		2535.0	23.09	22.31	21.44
		2502.5	23.39	22.28	21.36
	50% RB mid	2567.5	22.13	21.20	20.16
		2535.0	22.20	21.28	20.21
		2502.5	22.38	21.43	20.41
	100% RB	2567.5	22.15	21.13	20.17
		2535.0	22.22	21.17	20.23
		2502.5	22.38	21.36	20.42
10MHz	1 RB high	2565.0	22.93	22.10	21.00
		2535.0	23.10	22.21	21.09
		2505.0	23.15	22.33	21.23
	1 RB low	2565.0	22.92	22.12	21.00
		2535.0	23.05	22.20	21.08
		2505.0	23.21	22.37	21.21
	50% RB mid	2565.0	22.13	21.23	20.21
		2535.0	22.19	21.33	20.31
		2505.0	22.43	21.49	20.49
	100% RB	2565.0	22.20	21.23	20.20
		2535.0	22.29	21.30	20.25
		2505.0	22.42	21.46	20.39
15MHz	1 RB high	2562.5	22.80	22.42	21.42
		2535.0	22.93	22.54	21.49
		2507.5	22.97	22.56	21.54
	1 RB low	2562.5	22.90	22.45	21.42
		2535.0	22.95	22.54	21.49
		2507.5	23.12	22.69	21.70
	50% RB mid	2562.5	22.09	21.10	20.10
		2535.0	22.16	21.14	20.17
		2507.5	22.31	21.27	20.32
	100% RB	2562.5	22.09	21.09	20.14
		2535.0	22.21	21.18	20.24
		2507.5	22.30	21.31	20.32
20MHz	1 RB high	2560.0	22.80	22.66	20.87
		2535.0	22.92	22.76	21.05
		2510.0	22.99	22.78	21.05



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	1 RB low	2560.0	22.76	22.61	20.85
		2535.0	22.94	22.71	21.00
		2510.0	23.07	22.86	21.07
	50% RB mid	2560.0	22.04	21.12	20.04
		2535.0	22.17	21.20	20.16
		2510.0	22.33	21.25	20.30
	100% RB	2560.0	22.08	21.07	20.07
		2535.0	22.23	21.23	20.23
		2510.0	22.26	21.23	20.23

LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	715.3	23.61	22.96	21.75
		707.5	23.59	22.87	21.78
		699.7	23.62	22.93	21.69
	1 RB low	715.3	23.63	22.87	21.77
		707.5	23.61	22.94	21.68
		699.7	23.57	22.78	21.74
	50% RB mid	715.3	23.68	22.69	21.79
		707.5	23.63	22.66	21.68
		699.7	23.60	22.55	21.63
	100% RB	715.3	22.67	21.71	20.57
		707.5	22.62	21.66	20.54
		699.7	22.58	21.63	20.48
3MHz	1 RB high	714.5	23.57	22.92	21.79
		707.5	23.55	22.90	21.68
		700.5	23.57	22.79	21.83
	1 RB low	714.5	23.56	22.86	21.78
		707.5	23.57	22.88	21.76
		700.5	23.59	22.90	21.69
	50% RB mid	714.5	22.59	21.69	20.63
		707.5	22.59	21.64	20.54
		700.5	22.56	21.69	20.61
	100% RB	714.5	22.63	21.61	20.58
		707.5	22.53	21.57	20.55
		700.5	22.61	21.59	20.59
5MHz	1 RB high	713.5	23.72	22.93	21.79
		707.5	23.65	22.91	21.77
		701.5	23.68	23.01	21.84
	1 RB low	713.5	23.65	23.01	21.79
		707.5	23.67	22.91	21.83
		701.5	23.66	22.99	21.74
	50% RB mid	713.5	22.58	21.58	20.54
		707.5	22.62	21.60	20.63
		701.5	22.59	21.57	20.56
	100% RB	713.5	22.63	21.60	20.58
		707.5	22.59	21.58	20.56
		701.5	22.64	21.62	20.56
10MHz	1 RB high	711.0	23.74	22.96	21.94
		707.5	23.73	22.93	21.90
		704.0	23.76	23.10	21.82



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	1 RB low	711.0	23.86	23.16	21.94
		707.5	23.75	22.98	21.91
		704.0	23.79	23.08	21.94
	50% RB mid	711.0	22.78	21.78	20.80
		707.5	22.77	21.76	20.72
		704.0	22.75	21.71	20.67
	100% RB	711.0	22.83	21.82	20.79
		707.5	22.78	21.79	20.74
		704.0	22.64	21.67	20.62

LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	784.5	22.64	21.91	20.74
		782.0	22.70	21.90	20.82
		779.5	22.72	21.97	20.79
	1 RB low	784.5	22.72	21.86	20.83
		782.0	22.74	21.91	20.89
		779.5	22.80	21.93	20.83
	50% RB mid	784.5	21.65	20.65	19.69
		782.0	21.68	20.65	19.68
		779.5	21.68	20.63	19.64
	100% RB	784.5	21.64	20.63	19.62
		782.0	21.64	20.66	19.63
		779.5	21.69	20.71	19.71
10MHz	1 RB high	782.0	22.76	21.98	20.74
	1 RB low	782.0	22.88	21.97	20.88
	50% RB mid	782.0	21.71	20.76	19.67
	100% RB	782.0	21.68	20.63	19.63

LTE band 25

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1914.3	23.50	22.61	21.62
		1882.5	23.52	22.61	21.68
		1850.7	23.47	22.68	21.76
	1 RB low	1914.3	23.49	22.58	21.59
		1882.5	23.51	22.59	21.65
		1850.7	23.50	22.71	21.82
	50% RB mid	1914.3	23.60	22.69	21.73
		1882.5	23.55	22.73	21.65
		1850.7	23.65	22.76	21.73
	100% RB	1914.3	22.59	21.88	20.80
		1882.5	22.58	21.89	20.79
		1850.7	22.60	21.91	20.81
3MHz	1 RB high	1913.5	23.51	22.61	21.61
		1882.5	23.53	22.59	21.64
		1851.5	23.55	22.60	21.64
	1 RB low	1913.5	23.50	22.60	21.62
		1882.5	23.53	22.60	21.69
		1851.5	23.52	22.59	21.68
	50% RB mid	1913.5	22.49	21.76	20.61
		1882.5	22.52	21.75	20.66
		1851.5	22.58	21.79	20.69
	100% RB	1913.5	22.59	21.70	20.77
		1882.5	22.56	21.66	20.74
		1851.5	22.58	21.68	20.77
5MHz	1 RB high	1912.5	23.64	22.63	21.93
		1882.5	23.62	22.64	21.91
		1852.5	23.63	22.62	21.91
	1 RB low	1912.5	23.65	22.70	21.92
		1882.5	23.64	22.74	21.98
		1852.5	23.65	22.68	22.00
	50% RB mid	1912.5	22.43	21.82	20.67
		1882.5	22.56	21.81	20.75
		1852.5	22.61	21.79	20.82
	100% RB	1912.5	22.58	21.68	20.77
		1882.5	22.62	21.73	20.77
		1852.5	22.61	21.73	20.76
10MHz	1 RB high	1910.0	23.54	22.57	21.60
		1882.5	23.52	22.61	21.60
		1855.0	23.55	22.59	21.53

	1 RB low	1910.0	23.56	22.59	21.63
		1882.5	23.58	22.59	21.63
		1855.0	23.56	22.61	21.64
	50% RB mid	1910.0	22.44	21.84	20.63
		1882.5	22.68	21.90	20.88
		1855.0	22.67	21.86	20.88
	100% RB	1910.0	22.49	21.65	20.57
		1882.5	22.68	21.85	20.80
		1855.0	22.64	21.80	20.76
15MHz	1 RB high	1907.5	23.43	22.87	22.04
		1882.5	23.43	22.84	22.05
		1857.5	23.49	22.88	22.13
	1 RB low	1907.5	23.48	22.92	22.01
		1882.5	23.48	22.93	22.02
		1857.5	23.46	22.96	22.05
	50% RB mid	1907.5	22.52	21.72	20.65
		1882.5	22.58	21.69	20.74
		1857.5	22.59	21.68	20.75
	100% RB	1907.5	22.53	21.68	20.70
		1882.5	22.60	21.74	20.76
		1857.5	22.55	21.69	20.73
20MHz	1 RB high	1905.0	23.43	23.11	21.47
		1882.5	23.43	23.11	21.48
		1860.0	23.48	23.17	21.52
	1 RB low	1905.0	23.42	23.10	21.47
		1882.5	23.45	23.07	21.47
		1860.0	23.46	23.13	21.49
	50% RB mid	1905.0	22.53	21.71	20.67
		1882.5	22.70	21.78	20.86
		1860.0	22.62	21.75	20.76
	100% RB	1905.0	22.64	21.77	20.78
		1882.5	22.69	21.83	20.84
		1860.0	22.52	21.65	20.67

LTE band 26(814MHz~824MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	823.3	23.84	23.00	21.83
		819.0	23.86	22.98	21.83
		814.7	23.77	22.98	22.10
	1 RB low	823.3	23.85	22.97	21.80
		819.0	23.85	22.98	21.82
		814.7	23.78	22.99	22.14
	50% RB mid	823.3	23.93	23.06	21.88
		819.0	23.96	23.10	21.91
		814.7	23.91	23.14	22.06
	100% RB	823.3	22.93	22.11	21.02
		819.0	22.97	22.13	21.05
		814.7	22.94	21.82	21.19
3MHz	1 RB high	822.5	23.82	22.92	21.74
		819.0	23.88	22.95	21.77
		815.5	23.89	22.96	21.75
	1 RB low	822.5	23.85	22.95	21.80
		819.0	23.87	22.96	21.79
		815.5	23.87	22.96	21.79
	50% RB mid	822.5	22.83	21.92	20.80
		819.0	22.87	21.98	20.83
		815.5	22.84	21.93	20.83
	100% RB	822.5	22.88	21.85	20.91
		819.0	22.92	21.88	20.92
		815.5	22.86	21.87	20.89
5MHz	1 RB high	821.5	23.97	22.99	22.14
		819.0	24.01	23.03	22.10
		816.5	24.00	23.02	22.18
	1 RB low	821.5	23.97	23.02	22.16
		819.0	23.97	23.02	22.13
		816.5	23.95	23.02	22.15
	50% RB mid	821.5	22.91	22.00	20.95
		819.0	22.91	22.01	20.96
		816.5	22.89	21.99	20.95
	100% RB	821.5	22.94	21.93	20.97
		819.0	22.96	21.94	20.97
		816.5	22.94	21.92	20.96
10MHz	1 RB high	819.0	23.93	23.00	21.82
	1 RB low	819.0	23.93	22.97	21.82
	50% RB mid	819.0	23.92	22.98	21.80



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	100% RB	819.0	23.89	22.95	21.76
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LTE band 26(824MHz~849MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	23.75	22.90	21.77
		836.5	23.78	22.91	21.75
		824.7	23.74	22.93	22.11
	1 RB low	848.3	23.75	22.88	21.72
		836.5	23.76	22.88	21.74
		824.7	23.76	22.95	22.15
	50% RB mid	848.3	23.89	22.98	21.81
		836.5	23.84	23.02	21.80
		824.7	23.95	23.05	21.87
	100% RB	848.3	22.89	22.04	20.94
		836.5	22.88	22.03	20.96
		824.7	22.93	22.09	20.99
3MHz	1 RB high	847.5	23.74	22.86	21.68
		836.5	23.76	22.86	21.67
		825.5	23.87	22.95	21.77
	1 RB low	847.5	23.79	22.89	21.75
		836.5	23.79	22.90	21.73
		825.5	23.85	22.96	21.82
	50% RB mid	847.5	22.75	21.89	20.71
		836.5	22.81	21.90	20.76
		825.5	22.88	21.92	20.82
	100% RB	847.5	22.85	21.82	20.85
		836.5	22.87	21.81	20.86
		825.5	22.87	21.84	20.89
5MHz	1 RB high	846.5	23.93	22.93	22.09
		836.5	23.93	22.96	22.10
		826.5	24.06	23.07	22.21
	1 RB low	846.5	23.93	22.94	22.07
		836.5	23.94	22.97	22.12
		826.5	23.99	23.03	22.16
	50% RB mid	846.5	22.80	21.93	20.83
		836.5	22.83	21.91	20.89
		826.5	22.91	21.98	20.94
	100% RB	846.5	22.88	21.85	20.90
		836.5	22.90	21.86	20.90
		826.5	22.95	21.93	20.95
10MHz	1 RB high	844.0	23.85	22.92	21.77
		836.5	23.88	22.94	21.77
		829.0	23.91	22.96	21.79

	1 RB low	844.0	23.86	22.90	21.75
		836.5	23.87	22.92	21.78
		829.0	23.88	22.93	21.79
	50% RB mid	844.0	22.81	22.02	20.87
		836.5	22.90	21.99	20.95
		829.0	23.00	22.09	21.06
	100% RB	844.0	22.91	21.92	20.87
		836.5	22.91	21.93	20.90
		829.0	22.96	21.98	20.95
15MHz	1 RB high	841.5	23.74	23.18	22.23
		836.5	23.76	23.19	22.21
		831.5	23.72	23.18	22.19
	1 RB low	841.5	23.70	23.23	22.24
		836.5	23.83	23.26	22.27
		831.5	23.77	23.21	22.24
	50% RB mid	841.5	22.82	21.86	20.83
		836.5	22.84	21.86	20.86
		831.5	22.87	21.88	20.86
	100% RB	841.5	22.87	21.86	20.91
		836.5	22.86	21.86	20.86
		831.5	22.89	21.89	20.91

LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2687.5	26.19	25.38	24.84
		2593.0	26.06	25.27	24.66
		2498.5	26.57	25.35	24.37
	1 RB low	2687.5	26.18	25.33	24.82
		2593.0	26.09	25.26	24.68
		2498.5	26.60	25.41	24.35
	50% RB mid	2687.5	25.15	24.25	23.07
		2593.0	24.99	24.05	22.88
		2498.5	25.39	24.46	23.27
	100% RB	2687.5	25.19	24.18	23.09
		2593.0	24.99	24.01	22.88
		2498.5	25.40	24.40	23.28
10MHz	1 RB high	2685.0	26.12	25.34	24.12
		2593.0	26.01	25.17	23.96
		2501.0	26.37	25.55	24.32
	1 RB low	2685.0	26.11	25.33	24.12
		2593.0	26.00	25.19	23.99
		2501.0	26.40	25.59	24.33
	50% RB mid	2685.0	25.16	24.24	23.06
		2593.0	25.03	24.03	22.90
		2501.0	25.50	24.45	23.36
	100% RB	2685.0	25.21	24.25	23.15
		2593.0	25.02	24.03	22.94
		2501.0	25.44	24.48	23.33
15MHz	1 RB high	2682.5	26.21	25.31	24.57
		2593.0	26.00	25.12	24.32
		2503.5	26.35	25.47	24.68
	1 RB low	2682.5	26.21	25.33	24.56
		2593.0	26.05	25.14	24.36
		2503.5	26.44	25.54	24.76
	50% RB mid	2682.5	25.12	24.18	23.09
		2593.0	24.95	24.01	22.92
		2503.5	25.33	24.40	23.26
	100% RB	2682.5	25.12	24.12	23.10
		2593.0	24.96	23.96	22.95
		2503.5	25.33	24.33	23.32
20MHz	1 RB high	2680.0	26.06	25.52	24.35
		2593.0	25.96	25.34	24.21
		2506.0	26.26	25.64	24.46

	1 RB low	2680.0	26.15	25.50	24.38
		2593.0	25.98	25.36	24.20
		2506.0	26.32	25.69	24.56
	50% RB mid	2680.0	25.18	24.21	23.14
		2593.0	25.05	24.04	23.01
		2506.0	25.40	24.38	23.34
	100% RB	2680.0	25.15	24.14	23.14
		2593.0	25.01	24.01	23.01
		2506.0	25.34	24.31	23.33

LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1779.3	23.79	23.04	22.12
		1745.0	23.98	23.03	22.57
		1710.7	23.99	23.08	22.19
	1 RB low	1779.3	23.83	23.05	22.15
		1745.0	23.99	23.06	22.61
		1710.7	24.00	23.04	22.17
	50% RB mid	1779.3	23.88	23.08	22.03
		1745.0	24.00	23.11	22.46
		1710.7	24.01	23.08	22.52
	100% RB	1779.3	22.91	22.24	21.12
		1745.0	23.09	22.35	21.19
		1710.7	23.07	22.32	21.18
3MHz	1 RB high	1778.5	23.79	22.90	21.97
		1745.0	24.02	23.08	22.19
		1711.5	24.04	23.08	22.21
	1 RB low	1778.5	23.86	22.97	22.10
		1745.0	24.01	23.10	22.24
		1711.5	24.01	23.11	22.22
	50% RB mid	1778.5	22.85	22.09	20.97
		1745.0	22.98	22.20	21.09
		1711.5	23.03	22.23	21.13
	100% RB	1778.5	22.93	22.03	21.10
		1745.0	23.04	22.16	21.20
		1711.5	23.06	22.16	21.23
5MHz	1 RB high	1777.5	23.94	22.95	22.31
		1745.0	24.07	23.06	22.49
		1712.5	24.11	23.12	22.53
	1 RB low	1777.5	23.99	23.00	22.38
		1745.0	24.10	23.12	22.48
		1712.5	24.13	23.13	22.54
	50% RB mid	1777.5	22.88	22.15	21.06
		1745.0	22.97	22.28	21.12
		1712.5	23.03	22.27	21.18
	100% RB	1777.5	22.96	22.08	21.11
		1745.0	23.01	22.13	21.18
		1712.5	23.07	22.16	21.22
10MHz	1 RB high	1775.0	23.83	22.90	21.98
		1745.0	24.01	23.06	22.15
		1715.0	24.02	23.06	22.17

	1 RB low	1775.0	23.92	23.00	22.05
		1745.0	24.03	23.07	22.14
		1715.0	24.04	23.06	22.17
	50% RB mid	1775.0	22.94	22.22	21.15
		1745.0	22.99	22.32	21.21
		1715.0	23.05	22.29	21.25
	100% RB	1775.0	23.04	22.18	21.16
		1745.0	23.12	22.29	21.23
		1715.0	23.09	22.24	21.19
15MHz	1 RB high	1772.5	23.70	23.21	22.33
		1745.0	23.87	23.38	22.45
		1717.5	23.88	23.39	22.39
	1 RB low	1772.5	23.83	23.28	22.41
		1745.0	23.93	23.39	22.50
		1717.5	23.92	23.42	22.37
	50% RB mid	1772.5	22.90	22.10	21.05
		1745.0	22.97	22.15	21.13
		1717.5	23.01	22.10	21.17
	100% RB	1772.5	22.98	22.08	21.16
		1745.0	23.05	22.17	21.23
		1717.5	22.99	22.15	21.17
20MHz	1 RB high	1770.0	23.72	23.42	21.74
		1745.0	23.92	23.60	21.98
		1720.0	23.86	23.60	21.88
	1 RB low	1770.0	23.85	23.56	21.86
		1745.0	23.82	23.55	21.84
		1720.0	23.90	23.55	21.94
	50% RB mid	1770.0	22.88	22.11	20.96
		1745.0	22.97	22.15	21.08
		1720.0	23.12	22.18	21.30
	100% RB	1770.0	22.91	22.03	21.01
		1745.0	23.08	22.22	21.20
		1720.0	23.08	22.22	21.22

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Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	695.5	23.37	22.43	21.47
		680.5	23.35	22.52	21.54
		665.5	23.44	22.54	21.48
	1 RB low	695.5	23.35	22.61	21.50
		680.5	23.38	22.57	21.46
		665.5	23.47	22.76	21.61
	50% RB mid	695.5	23.39	22.38	21.46
		680.5	23.42	22.39	21.42
		665.5	23.48	22.49	21.47
	100% RB	695.5	22.35	21.41	20.32
		680.5	22.39	21.41	20.32
		665.5	22.45	21.50	20.35
10MHz	1 RB high	693.0	23.41	22.62	21.48
		680.5	23.40	22.64	21.60
		668.0	23.48	22.72	21.49
	1 RB low	693.0	23.40	22.67	21.52
		680.5	23.42	22.63	21.58
		668.0	23.51	22.75	21.56
	50% RB mid	693.0	22.32	21.39	20.37
		680.5	22.35	21.41	20.36
		668.0	22.45	21.48	20.43
	100% RB	693.0	22.39	21.40	20.37
		680.5	22.37	21.43	20.38
		668.0	22.43	21.46	20.41
15MHz	1 RB high	690.5	23.43	22.51	21.49
		680.5	23.42	22.61	21.45
		670.5	23.52	22.64	21.63
	1 RB low	690.5	23.47	22.67	21.47
		680.5	23.49	22.71	21.65
		670.5	23.55	22.69	21.66
	50% RB mid	690.5	22.35	21.34	20.35
		680.5	22.40	21.37	20.32
		670.5	22.43	21.36	20.41
	100% RB	690.5	22.42	21.39	20.37
		680.5	22.42	21.40	20.38
		670.5	22.48	21.40	20.45
20MHz	1 RB high	688.0	23.42	22.56	21.45
		680.5	23.40	22.62	21.45
		673.0	23.42	22.64	21.52



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	1 RB low	688.0	23.54	22.70	21.58
		680.5	23.58	22.81	21.59
		673.0	23.64	22.73	21.77
	50% RB mid	688.0	22.55	21.52	20.49
		680.5	22.57	21.54	20.50
		673.0	22.58	21.58	20.55
	100% RB	688.0	22.49	21.40	20.41
		680.5	22.52	21.49	20.47
		673.0	22.52	21.52	20.48

LTE band 41_CA

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/ 20MHz	2583.8	2595.5	QPSK	1	24	1	0	25.54
				25	0	100	0	23.92
			16QAM	1	24	1	0	24.18
				25	0	100	0	22.90
			64QAM	1	24	1	0	22.78
				25	0	100	0	22.94
20MHz/ 5MHz	2590.5	2602.2	QPSK	1	99	1	0	26.06
				100	0	25	0	24.05
			16QAM	1	99	1	0	24.47
				100	0	25	0	23.05
			64QAM	1	99	1	0	22.71
				100	0	25	0	23.04
10MHz/ 15MHz	2585.9	2597.9	QPSK	1	49	1	0	25.85
				50	0	75	0	23.89
			16QAM	1	49	1	0	24.28
				50	0	75	0	22.95
			64QAM	1	49	1	0	22.50
				50	0	75	0	22.95
15MHz/ 10MHz	2588.1	2600.1	QPSK	1	74	1	0	26.27
				75	0	50	0	24.09
			16QAM	1	74	1	0	24.68
				75	0	50	0	23.10
			64QAM	1	74	1	0	22.83
				75	0	50	0	23.13
10MHz/ 20MHz	2583.6	2598.0	QPSK	1	49	1	0	26.32
				50	0	100	0	24.07
			16QAM	1	49	1	0	24.76
				50	0	100	0	23.01
			64QAM	1	49	1	0	22.91
				50	0	100	0	23.07
20MHz/ 10MHz	2588.1	2602.5	QPSK	1	99	1	0	26.09
				100	0	50	0	23.97
			16QAM	1	99	1	0	24.48
				100	0	50	0	22.95
			64QAM	1	99	1	0	22.73
				100	0	50	0	22.97
15MHz/ 15MHz	2585.5	2600.5	QPSK	1	74	1	0	26.10
				75	0	75	0	24.13

			16QAM	1	74	1	0	24.62
				75	0	75	0	23.12
			64QAM	1	74	1	0	23.16
				75	0	75	0	23.16
15MHz/ 20MHz	2583.3	2600.4	QPSK	1	74	1	0	26.08
				75	0	100	0	24.05
			16QAM	1	74	1	0	24.70
				75	0	100	0	23.02
			64QAM	1	74	1	0	23.12
				75	0	100	0	23.04
20MHz/ 15MHz	2585.6	2602.7	QPSK	1	99	1	0	26.18
				100	0	75	0	24.01
			16QAM	1	99	1	0	24.68
				100	0	75	0	23.00
			64QAM	1	99	1	0	23.21
				100	0	75	0	23.05
20MHz/ 20MHz	2583.1	2602.9	QPSK	1	99	1	0	26.07
				100	0	100	0	23.90
			16QAM	1	99	1	0	24.58
				100	0	100	0	22.86
			64QAM	1	99	1	0	23.04
				100	0	100	0	22.92

A.1.3 Radiated

A.1.3.1 Description

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

FDD Band 2/25: Part 24.232(c) specifies "Mobile and portable stations are limited to 2 watts EIRP".

FDD Band 4/66: Part 27.50(d)(4) specifies "Fixed, mobile, and portable(handheld) stations operating in the 1710–1755 MHz band and mobile and portable stations operating in the 1695–1710 MHz and 1755–1780 MHz bands are limited to 1 watt EIRP".

FDD Band 7/TDD Band 38/41: Part 27.50(h)(2) specifies "Mobile stations are limited to 2.0 watts EIRP".

FDD Band 12/71: Part 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".

FDD Band 13: Part 27.50(b) 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): Part 90.635(b) specifies "The maximum output power of the transmitter for mobile stations is 100 watts".

FDD Band 5/26(824MHz~849MHz): Part 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

According to KDB 412172 D01 and ANSI C63.26 the relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$ERP \text{ or } EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, 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_T = transmitter output power in dBm;

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

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

A.1.3.3 Measurement result

LTE Band 2-EIRP

Limits: $\leq 33\text{dBm}(2\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			EIRP(dBm)(Gt-Lc =-1.9)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	1909.3	23.48	22.73	21.73	21.58	20.83	19.83
		1880.0	23.50	22.72	21.76	21.60	20.82	19.86
		1850.7	23.53	22.64	21.69	21.63	20.74	19.79
	1 RB low	1909.3	23.48	22.73	21.77	21.58	20.83	19.87
		1880.0	23.52	22.70	21.79	21.62	20.80	19.89
		1850.7	23.53	22.62	21.66	21.63	20.72	19.76
	50% RB mid	1909.3	23.50	22.78	21.89	21.60	20.88	19.99
		1880.0	23.57	22.74	21.66	21.67	20.84	19.76
		1850.7	23.67	22.77	21.73	21.77	20.87	19.83
	100% RB	1909.3	22.58	21.60	20.99	20.68	19.70	19.09
		1880.0	22.60	21.90	20.81	20.70	20.00	18.91
		1850.7	22.62	21.92	20.82	20.72	20.02	18.92
3MHz	1 RB high	1908.5	23.52	22.60	21.59	21.62	20.70	19.69
		1880.0	23.58	22.64	21.63	21.68	20.74	19.73
		1851.5	23.62	22.67	21.68	21.72	20.77	19.78
	1 RB low	1908.5	23.51	22.60	21.65	21.61	20.70	19.75
		1880.0	23.58	22.66	21.73	21.68	20.76	19.83
		1851.5	23.57	22.65	21.70	21.67	20.75	19.80
	50% RB mid	1908.5	22.57	21.80	20.70	20.67	19.90	18.80
		1880.0	22.54	21.77	20.67	20.64	19.87	18.77
		1851.5	22.61	21.81	20.72	20.71	19.91	18.82
	100% RB	1908.5	22.62	21.73	20.79	20.72	19.83	18.89
		1880.0	22.58	21.71	20.75	20.68	19.81	18.85
		1851.5	22.63	21.75	20.79	20.73	19.85	18.89
5MHz	1 RB high	1907.5	23.66	22.67	21.93	21.76	20.77	20.03
		1880.0	23.66	22.65	21.94	21.76	20.75	20.04
		1852.5	23.66	22.68	21.95	21.76	20.78	20.05
	1 RB low	1907.5	23.64	22.70	21.92	21.74	20.80	20.02
		1880.0	23.65	22.70	21.97	21.75	20.80	20.07
		1852.5	23.70	22.73	22.03	21.80	20.83	20.13
	50% RB mid	1907.5	22.60	21.81	20.80	20.70	19.91	18.90
		1880.0	22.57	21.79	20.75	20.67	19.89	18.85
		1852.5	22.60	21.83	20.80	20.70	19.93	18.90
	100% RB	1907.5	22.62	21.74	20.79	20.72	19.84	18.89
		1880.0	22.62	21.71	20.76	20.72	19.81	18.86
		1852.5	22.64	21.73	20.78	20.74	19.83	18.88
10MHz	1 RB high	1905.0	23.58	22.62	21.57	21.68	20.72	19.67

		1880.0	23.56	22.60	21.59	21.66	20.70	19.69
		1855.0	23.62	22.69	21.57	21.72	20.79	19.67
	1 RB low	1905.0	23.57	22.63	21.59	21.67	20.73	19.69
		1880.0	23.58	22.59	21.60	21.68	20.69	19.70
		1855.0	23.60	22.67	21.64	21.70	20.77	19.74
	50% RB mid	1905.0	22.72	21.87	20.89	20.82	19.97	18.99
		1880.0	22.60	21.85	20.85	20.70	19.95	18.95
		1855.0	22.68	21.83	20.90	20.78	19.93	19.00
	100% RB	1905.0	22.70	21.87	20.80	20.80	19.97	18.90
		1880.0	22.64	21.82	20.76	20.74	19.92	18.86
		1855.0	22.66	21.82	20.78	20.76	19.92	18.88
15MHz	1 RB high	1902.5	23.45	22.88	22.03	21.55	20.98	20.13
		1880.0	23.42	22.87	22.03	21.52	20.97	20.13
		1857.5	23.41	22.78	22.04	21.51	20.88	20.14
	1 RB low	1902.5	23.42	22.87	22.04	21.52	20.97	20.14
		1880.0	23.48	22.95	22.04	21.58	21.05	20.14
		1857.5	23.50	22.95	22.06	21.60	21.05	20.16
	50% RB mid	1902.5	22.58	21.72	20.75	20.68	19.82	18.85
		1880.0	22.56	21.69	20.72	20.66	19.79	18.82
		1857.5	22.57	21.69	20.72	20.67	19.79	18.82
	100% RB	1902.5	22.62	21.72	20.80	20.72	19.82	18.90
		1880.0	22.60	21.74	20.75	20.70	19.84	18.85
		1857.5	22.55	21.69	20.72	20.65	19.79	18.82
20MHz	1 RB high	1900.0	23.57	23.26	21.60	21.67	21.36	19.70
		1880.0	23.51	23.18	21.54	21.61	21.28	19.64
		1860.0	23.56	22.87	21.88	21.66	20.97	19.98
	1 RB low	1900.0	23.55	23.22	21.55	21.65	21.32	19.65
		1880.0	23.56	23.22	21.59	21.66	21.32	19.69
		1860.0	23.61	22.91	21.92	21.71	21.01	20.02
	50% RB mid	1900.0	22.66	21.81	20.82	20.76	19.91	18.92
		1880.0	22.75	21.78	20.90	20.85	19.88	19.00
		1860.0	22.68	21.82	20.79	20.78	19.92	18.89
	100% RB	1900.0	22.71	21.87	20.84	20.81	19.97	18.94
		1880.0	22.79	21.91	20.92	20.89	20.01	19.02
		1860.0	22.62	21.74	20.76	20.72	19.84	18.86

LTE Band 4-EIRP
Limits: $\leq 30\text{dBm}(1\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			EIRP(dBm)(Gt-Lc =-2.1)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	1754.3	23.88	23.06	22.19	21.78	20.96	20.09
		1732.5	23.87	23.15	22.17	21.77	21.05	20.07
		1710.7	23.97	23.16	22.18	21.87	21.06	20.08
	1 RB low	1754.3	23.87	23.05	22.21	21.77	20.95	20.11
		1732.5	23.89	23.16	22.20	21.79	21.06	20.10
		1710.7	23.94	23.14	22.14	21.84	21.04	20.04
	50% RB mid	1754.3	23.88	23.14	22.10	21.78	21.04	20.00
		1732.5	23.88	23.23	22.21	21.78	21.13	20.11
		1710.7	24.04	23.34	22.14	21.94	21.24	20.04
	100% RB	1754.3	22.93	21.97	21.30	20.83	19.87	19.20
		1732.5	23.00	22.02	21.41	20.90	19.92	19.31
		1710.7	23.17	22.33	21.20	21.07	20.23	19.10
3MHz	1 RB high	1753.5	23.89	22.92	22.03	21.79	20.82	19.93
		1732.5	23.93	23.00	22.06	21.83	20.90	19.96
		1711.5	24.05	23.09	22.24	21.95	20.99	20.14
	1 RB low	1753.5	23.91	22.99	22.15	21.81	20.89	20.05
		1732.5	23.92	23.05	22.12	21.82	20.95	20.02
		1711.5	23.99	23.22	22.23	21.89	21.12	20.13
	50% RB mid	1753.5	22.89	22.11	21.01	20.79	20.01	18.91
		1732.5	23.09	22.17	21.05	20.99	20.07	18.95
		1711.5	23.17	22.22	21.10	21.07	20.12	19.00
	100% RB	1753.5	22.94	22.03	21.13	20.84	19.93	19.03
		1732.5	23.13	22.08	21.15	21.03	19.98	19.05
		1711.5	23.17	22.11	21.21	21.07	20.01	19.11
5MHz	1 RB high	1752.5	23.97	22.98	22.36	21.87	20.88	20.26
		1732.5	24.02	23.04	22.39	21.92	20.94	20.29
		1712.5	24.07	23.21	22.46	21.97	21.11	20.36
	1 RB low	1752.5	24.03	23.02	22.44	21.93	20.92	20.34
		1732.5	24.02	23.10	22.39	21.92	21.00	20.29
		1712.5	24.10	23.23	22.51	22.00	21.13	20.41
	50% RB mid	1752.5	22.91	22.13	21.10	20.81	20.03	19.00
		1732.5	22.95	22.18	21.12	20.85	20.08	19.02
		1712.5	23.13	22.22	21.15	21.03	20.12	19.05
	100% RB	1752.5	22.96	22.04	21.12	20.86	19.94	19.02
		1732.5	22.97	22.08	21.15	20.87	19.98	19.05
		1712.5	23.19	22.12	21.19	21.09	20.02	19.09
	1 RB high	1750.0	23.94	22.97	22.05	21.84	20.87	19.95

10MHz		1732.5	23.94	23.06	22.06	21.84	20.96	19.96
		1715.0	24.02	23.10	22.20	21.92	21.00	20.10
	1 RB low	1750.0	23.94	22.98	22.07	21.84	20.88	19.97
		1732.5	24.01	23.06	22.09	21.91	20.96	19.99
		1715.0	24.04	23.17	22.16	21.94	21.07	20.06
	50% RB mid	1750.0	22.97	22.14	21.17	20.87	20.04	19.07
		1732.5	23.07	22.18	21.14	20.97	20.08	19.04
		1715.0	23.19	22.26	21.23	21.09	20.16	19.13
	100% RB	1750.0	23.02	22.17	21.19	20.92	20.07	19.09
		1732.5	23.07	22.13	21.06	20.97	20.03	18.96
		1715.0	23.22	22.20	21.14	21.12	20.10	19.04
15MHz	1 RB high	1747.5	23.77	23.26	22.29	21.67	21.16	20.19
		1732.5	23.78	23.28	22.33	21.68	21.18	20.23
		1717.5	23.81	23.47	22.32	21.71	21.37	20.22
	1 RB low	1747.5	23.78	23.32	22.32	21.68	21.22	20.22
		1732.5	23.82	23.32	22.40	21.72	21.22	20.30
		1717.5	23.92	23.54	22.44	21.82	21.44	20.34
	50% RB mid	1747.5	22.94	22.11	21.09	20.84	20.01	18.99
		1732.5	22.92	22.07	21.07	20.82	19.97	18.97
		1717.5	23.11	22.09	21.12	21.01	19.99	19.02
	100% RB	1747.5	22.97	22.07	21.14	20.87	19.97	19.04
		1732.5	23.05	22.07	21.09	20.95	19.97	18.99
		1717.5	23.13	22.10	21.17	21.03	20.00	19.07
20MHz	1 RB high	1745.0	23.79	23.45	21.85	21.69	21.35	19.75
		1732.5	23.83	23.51	21.87	21.73	21.41	19.77
		1720.0	23.88	23.59	21.87	21.78	21.49	19.77
	1 RB low	1745.0	23.82	23.55	21.82	21.72	21.45	19.72
		1732.5	23.80	23.64	21.80	21.70	21.54	19.70
		1720.0	23.91	23.68	21.92	21.81	21.58	19.82
	50% RB mid	1745.0	22.94	22.08	21.03	20.84	19.98	18.93
		1732.5	23.03	22.06	20.99	20.93	19.96	18.89
		1720.0	23.26	22.13	21.23	21.16	20.03	19.13
	100% RB	1745.0	23.00	22.12	21.10	20.90	20.02	19.00
		1732.5	23.04	22.02	21.04	20.94	19.92	18.94
		1720.0	23.17	22.15	21.14	21.07	20.05	19.04

LTE Band 7-EIRP
Limits: $\leq 33\text{dBm}(2\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			EIRP(dBm)(Gt-Lc =-3.3)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5MHz	1 RB high	2567.5	23.02	22.18	21.35	19.72	18.88	18.05
		2535.0	23.07	22.29	21.43	19.77	18.99	18.13
		2502.5	23.34	22.29	21.33	20.04	18.99	18.03
	1 RB low	2567.5	23.03	22.23	21.38	19.73	18.93	18.08
		2535.0	23.09	22.31	21.44	19.79	19.01	18.14
		2502.5	23.39	22.28	21.36	20.09	18.98	18.06
	50% RB mid	2567.5	22.13	21.20	20.16	18.83	17.90	16.86
		2535.0	22.20	21.28	20.21	18.90	17.98	16.91
		2502.5	22.38	21.43	20.41	19.08	18.13	17.11
	100% RB	2567.5	22.15	21.13	20.17	18.85	17.83	16.87
		2535.0	22.22	21.17	20.23	18.92	17.87	16.93
		2502.5	22.38	21.36	20.42	19.08	18.06	17.12
10MHz	1 RB high	2565.0	22.93	22.10	21.00	19.63	18.80	17.70
		2535.0	23.10	22.21	21.09	19.80	18.91	17.79
		2505.0	23.15	22.33	21.23	19.85	19.03	17.93
	1 RB low	2565.0	22.92	22.12	21.00	19.62	18.82	17.70
		2535.0	23.05	22.20	21.08	19.75	18.90	17.78
		2505.0	23.21	22.37	21.21	19.91	19.07	17.91
	50% RB mid	2565.0	22.13	21.23	20.21	18.83	17.93	16.91
		2535.0	22.19	21.33	20.31	18.89	18.03	17.01
		2505.0	22.43	21.49	20.49	19.13	18.19	17.19
	100% RB	2565.0	22.20	21.23	20.20	18.90	17.93	16.90
		2535.0	22.29	21.30	20.25	18.99	18.00	16.95
		2505.0	22.42	21.46	20.39	19.12	18.16	17.09
15MHz	1 RB high	2562.5	22.80	22.42	21.42	19.50	19.12	18.12
		2535.0	22.93	22.54	21.49	19.63	19.24	18.19
		2507.5	22.97	22.56	21.54	19.67	19.26	18.24
	1 RB low	2562.5	22.90	22.45	21.42	19.60	19.15	18.12
		2535.0	22.95	22.54	21.49	19.65	19.24	18.19
		2507.5	23.12	22.69	21.70	19.82	19.39	18.40
	50% RB mid	2562.5	22.09	21.10	20.10	18.79	17.80	16.80
		2535.0	22.16	21.14	20.17	18.86	17.84	16.87
		2507.5	22.31	21.27	20.32	19.01	17.97	17.02
	100% RB	2562.5	22.09	21.09	20.14	18.79	17.79	16.84
		2535.0	22.21	21.18	20.24	18.91	17.88	16.94
		2507.5	22.30	21.31	20.32	19.00	18.01	17.02
20MHz	1 RB high	2560.0	22.80	22.66	20.87	19.50	19.36	17.57
		2535.0	22.92	22.76	21.05	19.62	19.46	17.75

		2510.0	22.99	22.78	21.05	19.69	19.48	17.75
	1 RB low	2560.0	22.76	22.61	20.85	19.46	19.31	17.55
		2535.0	22.94	22.71	21.00	19.64	19.41	17.70
		2510.0	23.07	22.86	21.07	19.77	19.56	17.77
	50% RB mid	2560.0	22.04	21.12	20.04	18.74	17.82	16.74
		2535.0	22.17	21.20	20.16	18.87	17.90	16.86
		2510.0	22.33	21.25	20.30	19.03	17.95	17.00
	100% RB	2560.0	22.08	21.07	20.07	18.78	17.77	16.77
		2535.0	22.23	21.23	20.23	18.93	17.93	16.93
		2510.0	22.26	21.23	20.23	18.96	17.93	16.93

LTE Band 12-ERP
Limits: $\leq 34.77\text{dBm}(3\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-3.3)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	715.3	23.61	22.96	21.75	18.16	17.51	16.30
		707.5	23.59	22.87	21.78	18.14	17.42	16.33
		699.7	23.62	22.93	21.69	18.17	17.48	16.24
	1 RB low	715.3	23.63	22.87	21.77	18.18	17.42	16.32
		707.5	23.61	22.94	21.68	18.16	17.49	16.23
		699.7	23.57	22.78	21.74	18.12	17.33	16.29
	50% RB mid	715.3	23.68	22.69	21.79	18.23	17.24	16.34
		707.5	23.63	22.66	21.68	18.18	17.21	16.23
		699.7	23.60	22.55	21.63	18.15	17.10	16.18
	100% RB	715.3	22.67	21.71	20.57	17.22	16.26	15.12
		707.5	22.62	21.66	20.54	17.17	16.21	15.09
		699.7	22.58	21.63	20.48	17.13	16.18	15.03
3MHz	1 RB high	714.5	23.57	22.92	21.79	18.12	17.47	16.34
		707.5	23.55	22.90	21.68	18.10	17.45	16.23
		700.5	23.57	22.79	21.83	18.12	17.34	16.38
	1 RB low	714.5	23.56	22.86	21.78	18.11	17.41	16.33
		707.5	23.57	22.88	21.76	18.12	17.43	16.31
		700.5	23.59	22.90	21.69	18.14	17.45	16.24
	50% RB mid	714.5	22.59	21.69	20.63	17.14	16.24	15.18
		707.5	22.59	21.64	20.54	17.14	16.19	15.09
		700.5	22.56	21.69	20.61	17.11	16.24	15.16
	100% RB	714.5	22.63	21.61	20.58	17.18	16.16	15.13
		707.5	22.53	21.57	20.55	17.08	16.12	15.10
		700.5	22.61	21.59	20.59	17.16	16.14	15.14
5MHz	1 RB high	713.5	23.72	22.93	21.79	18.27	17.48	16.34
		707.5	23.65	22.91	21.77	18.20	17.46	16.32
		701.5	23.68	23.01	21.84	18.23	17.56	16.39
	1 RB low	713.5	23.65	23.01	21.79	18.20	17.56	16.34
		707.5	23.67	22.91	21.83	18.22	17.46	16.38
		701.5	23.66	22.99	21.74	18.21	17.54	16.29
	50% RB mid	713.5	22.58	21.58	20.54	17.13	16.13	15.09
		707.5	22.62	21.60	20.63	17.17	16.15	15.18
		701.5	22.59	21.57	20.56	17.14	16.12	15.11
	100% RB	713.5	22.63	21.60	20.58	17.18	16.15	15.13
		707.5	22.59	21.58	20.56	17.14	16.13	15.11
		701.5	22.64	21.62	20.56	17.19	16.17	15.11
10MHz	1 RB high	711.0	23.74	22.96	21.94	18.29	17.51	16.49
		707.5	23.73	22.93	21.90	18.28	17.48	16.45

		704.0	23.76	23.10	21.82	18.31	17.65	16.37
	1 RB low	711.0	23.86	23.16	21.94	18.41	17.71	16.49
		707.5	23.75	22.98	21.91	18.30	17.53	16.46
		704.0	23.79	23.08	21.94	18.34	17.63	16.49
	50% RB mid	711.0	22.78	21.78	20.80	17.33	16.33	15.35
		707.5	22.77	21.76	20.72	17.32	16.31	15.27
		704.0	22.75	21.71	20.67	17.30	16.26	15.22
	100% RB	711.0	22.83	21.82	20.79	17.38	16.37	15.34
		707.5	22.78	21.79	20.74	17.33	16.34	15.29
		704.0	22.64	21.67	20.62	17.19	16.22	15.17

LTE Band 13-ERP

Limits: $\leq 34.77\text{dBm}(3\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-3.3)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5MHz	1 RB high	784.5	22.64	21.91	20.74	17.19	16.46	15.29
		782.0	22.70	21.90	20.82	17.25	16.45	15.37
		779.5	22.72	21.97	20.79	17.27	16.52	15.34
	1 RB low	784.5	22.72	21.86	20.83	17.27	16.41	15.38
		782.0	22.74	21.91	20.89	17.29	16.46	15.44
		779.5	22.80	21.93	20.83	17.35	16.48	15.38
	50% RB mid	784.5	21.65	20.65	19.69	16.20	15.20	14.24
		782.0	21.68	20.65	19.68	16.23	15.20	14.23
		779.5	21.68	20.63	19.64	16.23	15.18	14.19
	100% RB	784.5	21.64	20.63	19.62	16.19	15.18	14.17
		782.0	21.64	20.66	19.63	16.19	15.21	14.18
		779.5	21.69	20.71	19.71	16.24	15.26	14.26
10MHz	1 RB high	782.0	22.76	21.98	20.74	17.31	16.53	15.29
	1 RB low	782.0	22.88	21.97	20.88	17.43	16.52	15.43
	50% RB mid	782.0	21.71	20.76	19.67	16.26	15.31	14.22
	100% RB	782.0	21.68	20.63	19.63	16.23	15.18	14.18

LTE Band 25-EIRP
Limits: $\leq 33\text{dBm}(2\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			EIRP(dBm)(Gt-Lc =-1.9)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	1914.3	23.50	22.61	21.62	21.60	20.71	19.72
		1882.5	23.52	22.61	21.68	21.62	20.71	19.78
		1850.7	23.47	22.68	21.76	21.57	20.78	19.86
	1 RB low	1914.3	23.49	22.58	21.59	21.59	20.68	19.69
		1882.5	23.51	22.59	21.65	21.61	20.69	19.75
		1850.7	23.50	22.71	21.82	21.60	20.81	19.92
	50% RB mid	1914.3	23.60	22.69	21.73	21.70	20.79	19.83
		1882.5	23.55	22.73	21.65	21.65	20.83	19.75
		1850.7	23.65	22.76	21.73	21.75	20.86	19.83
	100% RB	1914.3	22.59	21.88	20.80	20.69	19.98	18.90
		1882.5	22.58	21.89	20.79	20.68	19.99	18.89
		1850.7	22.60	21.91	20.81	20.70	20.01	18.91
3MHz	1 RB high	1913.5	23.51	22.61	21.61	21.61	20.71	19.71
		1882.5	23.53	22.59	21.64	21.63	20.69	19.74
		1851.5	23.55	22.60	21.64	21.65	20.70	19.74
	1 RB low	1913.5	23.50	22.60	21.62	21.60	20.70	19.72
		1882.5	23.53	22.60	21.69	21.63	20.70	19.79
		1851.5	23.52	22.59	21.68	21.62	20.69	19.78
	50% RB mid	1913.5	22.49	21.76	20.61	20.59	19.86	18.71
		1882.5	22.52	21.75	20.66	20.62	19.85	18.76
		1851.5	22.58	21.79	20.69	20.68	19.89	18.79
	100% RB	1913.5	22.59	21.70	20.77	20.69	19.80	18.87
		1882.5	22.56	21.66	20.74	20.66	19.76	18.84
		1851.5	22.58	21.68	20.77	20.68	19.78	18.87
5MHz	1 RB high	1912.5	23.64	22.63	21.93	21.74	20.73	20.03
		1882.5	23.62	22.64	21.91	21.72	20.74	20.01
		1852.5	23.63	22.62	21.91	21.73	20.72	20.01
	1 RB low	1912.5	23.65	22.70	21.92	21.75	20.80	20.02
		1882.5	23.64	22.74	21.98	21.74	20.84	20.08
		1852.5	23.65	22.68	22.00	21.75	20.78	20.10
	50% RB mid	1912.5	22.43	21.82	20.67	20.53	19.92	18.77
		1882.5	22.56	21.81	20.75	20.66	19.91	18.85
		1852.5	22.61	21.79	20.82	20.71	19.89	18.92
	100% RB	1912.5	22.58	21.68	20.77	20.68	19.78	18.87
		1882.5	22.62	21.73	20.77	20.72	19.83	18.87
		1852.5	22.61	21.73	20.76	20.71	19.83	18.86
10MHz	1 RB high	1910.0	23.54	22.57	21.60	21.64	20.67	19.70

		1882.5	23.52	22.61	21.60	21.62	20.71	19.70
		1855.0	23.55	22.59	21.53	21.65	20.69	19.63
		1910.0	23.56	22.59	21.63	21.66	20.69	19.73
	1 RB low	1882.5	23.58	22.59	21.63	21.68	20.69	19.73
		1855.0	23.56	22.61	21.64	21.66	20.71	19.74
		1910.0	22.44	21.84	20.63	20.54	19.94	18.73
	50% RB mid	1882.5	22.68	21.90	20.88	20.78	20.00	18.98
		1855.0	22.67	21.86	20.88	20.77	19.96	18.98
		1910.0	22.49	21.65	20.57	20.59	19.75	18.67
	100% RB	1882.5	22.68	21.85	20.80	20.78	19.95	18.90
		1855.0	22.64	21.80	20.76	20.74	19.90	18.86
15MHz	1 RB high	1907.5	23.43	22.87	22.04	21.53	20.97	20.14
		1882.5	23.43	22.84	22.05	21.53	20.94	20.15
		1857.5	23.49	22.88	22.13	21.59	20.98	20.23
	1 RB low	1907.5	23.48	22.92	22.01	21.58	21.02	20.11
		1882.5	23.48	22.93	22.02	21.58	21.03	20.12
		1857.5	23.46	22.96	22.05	21.56	21.06	20.15
	50% RB mid	1907.5	22.52	21.72	20.65	20.62	19.82	18.75
		1882.5	22.58	21.69	20.74	20.68	19.79	18.84
		1857.5	22.59	21.68	20.75	20.69	19.78	18.85
	100% RB	1907.5	22.53	21.68	20.70	20.63	19.78	18.80
		1882.5	22.60	21.74	20.76	20.70	19.84	18.86
		1857.5	22.55	21.69	20.73	20.65	19.79	18.83
20MHz	1 RB high	1905.0	23.43	23.11	21.47	21.53	21.21	19.57
		1882.5	23.43	23.11	21.48	21.53	21.21	19.58
		1860.0	23.48	23.17	21.52	21.58	21.27	19.62
	1 RB low	1905.0	23.42	23.10	21.47	21.52	21.20	19.57
		1882.5	23.45	23.07	21.47	21.55	21.17	19.57
		1860.0	23.46	23.13	21.49	21.56	21.23	19.59
	50% RB mid	1905.0	22.53	21.71	20.67	20.63	19.81	18.77
		1882.5	22.70	21.78	20.86	20.80	19.88	18.96
		1860.0	22.62	21.75	20.76	20.72	19.85	18.86
	100% RB	1905.0	22.64	21.77	20.78	20.74	19.87	18.88
		1882.5	22.69	21.83	20.84	20.79	19.93	18.94
		1860.0	22.52	21.65	20.67	20.62	19.75	18.77

LTE Band 26(814MHz~824MHz)-ERP
Limits: $\leq 50\text{dBm}(100\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-3.9)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	823.3	23.84	23.00	21.83	17.79	16.95	15.78
		819.0	23.86	22.98	21.83	17.81	16.93	15.78
		814.7	23.77	22.98	22.10	17.72	16.93	16.05
	1 RB low	823.3	23.85	22.97	21.80	17.80	16.92	15.75
		819.0	23.85	22.98	21.82	17.80	16.93	15.77
		814.7	23.78	22.99	22.14	17.73	16.94	16.09
	50% RB mid	823.3	23.93	23.06	21.88	17.88	17.01	15.83
		819.0	23.96	23.10	21.91	17.91	17.05	15.86
		814.7	23.91	23.14	22.06	17.86	17.09	16.01
	100% RB	823.3	22.93	22.11	21.02	16.88	16.06	14.97
		819.0	22.97	22.13	21.05	16.92	16.08	15.00
		814.7	22.94	21.82	21.19	16.89	15.77	15.14
3MHz	1 RB high	822.5	23.82	22.92	21.74	17.77	16.87	15.69
		819.0	23.88	22.95	21.77	17.83	16.90	15.72
		815.5	23.89	22.96	21.75	17.84	16.91	15.70
	1 RB low	822.5	23.85	22.95	21.80	17.80	16.90	15.75
		819.0	23.87	22.96	21.79	17.82	16.91	15.74
		815.5	23.87	22.96	21.79	17.82	16.91	15.74
	50% RB mid	822.5	22.83	21.92	20.80	16.78	15.87	14.75
		819.0	22.87	21.98	20.83	16.82	15.93	14.78
		815.5	22.84	21.93	20.83	16.79	15.88	14.78
	100% RB	822.5	22.88	21.85	20.91	16.83	15.80	14.86
		819.0	22.92	21.88	20.92	16.87	15.83	14.87
		815.5	22.86	21.87	20.89	16.81	15.82	14.84
5MHz	1 RB high	821.5	23.97	22.99	22.14	17.92	16.94	16.09
		819.0	24.01	23.03	22.10	17.96	16.98	16.05
		816.5	24.00	23.02	22.18	17.95	16.97	16.13
	1 RB low	821.5	23.97	23.02	22.16	17.92	16.97	16.11
		819.0	23.97	23.02	22.13	17.92	16.97	16.08
		816.5	23.95	23.02	22.15	17.90	16.97	16.10
	50% RB mid	821.5	22.91	22.00	20.95	16.86	15.95	14.90
		819.0	22.91	22.01	20.96	16.86	15.96	14.91
		816.5	22.89	21.99	20.95	16.84	15.94	14.90
	100% RB	821.5	22.94	21.93	20.97	16.89	15.88	14.92
		819.0	22.96	21.94	20.97	16.91	15.89	14.92
		816.5	22.94	21.92	20.96	16.89	15.87	14.91
10MHz	1 RB high	819.0	23.93	23.00	21.82	17.88	16.95	15.77
	1 RB low	819.0	23.93	22.97	21.82	17.88	16.92	15.77



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	50% RB mid	819.0	23.92	22.98	21.80	17.87	16.93	15.75
	100% RB	819.0	23.89	22.95	21.76	17.84	16.90	15.71

LTE Band 26(824MHz-849MHz) -ERP
Limits: $\leq 38.45\text{dBm}(7\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-3.9)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	23.75	22.90	21.77	17.70	16.85	15.72
		836.5	23.78	22.91	21.75	17.73	16.86	15.70
		824.7	23.74	22.93	22.11	17.69	16.88	16.06
	1 RB low	848.3	23.75	22.88	21.72	17.70	16.83	15.67
		836.5	23.76	22.88	21.74	17.71	16.83	15.69
		824.7	23.76	22.95	22.15	17.71	16.90	16.10
	50% RB mid	848.3	23.89	22.98	21.81	17.84	16.93	15.76
		836.5	23.84	23.02	21.80	17.79	16.97	15.75
		824.7	23.95	23.05	21.87	17.90	17.00	15.82
	100% RB	848.3	22.89	22.04	20.94	16.84	15.99	14.89
		836.5	22.88	22.03	20.96	16.83	15.98	14.91
		824.7	22.93	22.09	20.99	16.88	16.04	14.94
3MHz	1 RB high	847.5	23.74	22.86	21.68	17.69	16.81	15.63
		836.5	23.76	22.86	21.67	17.71	16.81	15.62
		825.5	23.87	22.95	21.77	17.82	16.90	15.72
	1 RB low	847.5	23.79	22.89	21.75	17.74	16.84	15.70
		836.5	23.79	22.90	21.73	17.74	16.85	15.68
		825.5	23.85	22.96	21.82	17.80	16.91	15.77
	50% RB mid	847.5	22.75	21.89	20.71	16.70	15.84	14.66
		836.5	22.81	21.90	20.76	16.76	15.85	14.71
		825.5	22.88	21.92	20.82	16.83	15.87	14.77
	100% RB	847.5	22.85	21.82	20.85	16.80	15.77	14.80
		836.5	22.87	21.81	20.86	16.82	15.76	14.81
		825.5	22.87	21.84	20.89	16.82	15.79	14.84
5MHz	1 RB high	846.5	23.93	22.93	22.09	17.88	16.88	16.04
		836.5	23.93	22.96	22.10	17.88	16.91	16.05
		826.5	24.06	23.07	22.21	18.01	17.02	16.16
	1 RB low	846.5	23.93	22.94	22.07	17.88	16.89	16.02
		836.5	23.94	22.97	22.12	17.89	16.92	16.07
		826.5	23.99	23.03	22.16	17.94	16.98	16.11
	50% RB mid	846.5	22.80	21.93	20.83	16.75	15.88	14.78
		836.5	22.83	21.91	20.89	16.78	15.86	14.84
		826.5	22.91	21.98	20.94	16.86	15.93	14.89
	100% RB	846.5	22.88	21.85	20.90	16.83	15.80	14.85
		836.5	22.90	21.86	20.90	16.85	15.81	14.85
		826.5	22.95	21.93	20.95	16.90	15.88	14.90
10MHz	1 RB high	844.0	23.85	22.92	21.77	17.80	16.87	15.72
		836.5	23.88	22.94	21.77	17.83	16.89	15.72

	1 RB low	829.0	23.91	22.96	21.79	17.86	16.91	15.74
		844.0	23.86	22.90	21.75	17.81	16.85	15.70
		836.5	23.87	22.92	21.78	17.82	16.87	15.73
		829.0	23.88	22.93	21.79	17.83	16.88	15.74
	50% RB mid	844.0	22.81	22.02	20.87	16.76	15.97	14.82
		836.5	22.90	21.99	20.95	16.85	15.94	14.90
		829.0	23.00	22.09	21.06	16.95	16.04	15.01
	100% RB	844.0	22.91	21.92	20.87	16.86	15.87	14.82
		836.5	22.91	21.93	20.90	16.86	15.88	14.85
		829.0	22.96	21.98	20.95	16.91	15.93	14.90
15MHz	1 RB high	841.5	23.74	23.18	22.23	17.69	17.13	16.18
		836.5	23.76	23.19	22.21	17.71	17.14	16.16
		831.5	23.72	23.18	22.19	17.67	17.13	16.14
	1 RB low	841.5	23.70	23.23	22.24	17.65	17.18	16.19
		836.5	23.83	23.26	22.27	17.78	17.21	16.22
		831.5	23.77	23.21	22.24	17.72	17.16	16.19
	50% RB mid	841.5	22.82	21.86	20.83	16.77	15.81	14.78
		836.5	22.84	21.86	20.86	16.79	15.81	14.81
		831.5	22.87	21.88	20.86	16.82	15.83	14.81
	100% RB	841.5	22.87	21.86	20.91	16.82	15.81	14.86
		836.5	22.86	21.86	20.86	16.81	15.81	14.81
		831.5	22.89	21.89	20.91	16.84	15.84	14.86

LTE Band 41-EIRP
Limits: $\leq 33\text{dBm}(2\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			EIRP(dBm)(Gt-Lc =-3.2)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5MHz	1 RB high	2687.5	26.19	25.38	24.84	22.99	22.18	21.64
		2593.0	26.06	25.27	24.66	22.86	22.07	21.46
		2498.5	26.57	25.35	24.37	23.37	22.15	21.17
	1 RB low	2687.5	26.18	25.33	24.82	22.98	22.13	21.62
		2593.0	26.09	25.26	24.68	22.89	22.06	21.48
		2498.5	26.60	25.41	24.35	23.40	22.21	21.15
	50% RB mid	2687.5	25.15	24.25	23.07	21.95	21.05	19.87
		2593.0	24.99	24.05	22.88	21.79	20.85	19.68
		2498.5	25.39	24.46	23.27	22.19	21.26	20.07
	100% RB	2687.5	25.19	24.18	23.09	21.99	20.98	19.89
		2593.0	24.99	24.01	22.88	21.79	20.81	19.68
		2498.5	25.40	24.40	23.28	22.20	21.20	20.08
10MHz	1 RB high	2685.0	26.12	25.34	24.12	22.92	22.14	20.92
		2593.0	26.01	25.17	23.96	22.81	21.97	20.76
		2501.0	26.37	25.55	24.32	23.17	22.35	21.12
	1 RB low	2685.0	26.11	25.33	24.12	22.91	22.13	20.92
		2593.0	26.00	25.19	23.99	22.80	21.99	20.79
		2501.0	26.40	25.59	24.33	23.20	22.39	21.13
	50% RB mid	2685.0	25.16	24.24	23.06	21.96	21.04	19.86
		2593.0	25.03	24.03	22.90	21.83	20.83	19.70
		2501.0	25.50	24.45	23.36	22.30	21.25	20.16
	100% RB	2685.0	25.21	24.25	23.15	22.01	21.05	19.95
		2593.0	25.02	24.03	22.94	21.82	20.83	19.74
		2501.0	25.44	24.48	23.33	22.24	21.28	20.13
15MHz	1 RB high	2682.5	26.21	25.31	24.57	23.01	22.11	21.37
		2593.0	26.00	25.12	24.32	22.80	21.92	21.12
		2503.5	26.35	25.47	24.68	23.15	22.27	21.48
	1 RB low	2682.5	26.21	25.33	24.56	23.01	22.13	21.36
		2593.0	26.05	25.14	24.36	22.85	21.94	21.16
		2503.5	26.44	25.54	24.76	23.24	22.34	21.56
	50% RB mid	2682.5	25.12	24.18	23.09	21.92	20.98	19.89
		2593.0	24.95	24.01	22.92	21.75	20.81	19.72
		2503.5	25.33	24.40	23.26	22.13	21.20	20.06
	100% RB	2682.5	25.12	24.12	23.10	21.92	20.92	19.90
		2593.0	24.96	23.96	22.95	21.76	20.76	19.75
		2503.5	25.33	24.33	23.32	22.13	21.13	20.12
	1 RB high	2680.0	26.06	25.52	24.35	22.86	22.32	21.15



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20MHz		2593.0	25.96	25.34	24.21	22.76	22.14	21.01
		2506.0	26.26	25.64	24.46	23.06	22.44	21.26
	1 RB low	2680.0	26.15	25.50	24.38	22.95	22.30	21.18
		2593.0	25.98	25.36	24.20	22.78	22.16	21.00
		2506.0	26.32	25.69	24.56	23.12	22.49	21.36
	50% RB mid	2680.0	25.18	24.21	23.14	21.98	21.01	19.94
		2593.0	25.05	24.04	23.01	21.85	20.84	19.81
		2506.0	25.40	24.38	23.34	22.20	21.18	20.14
	100% RB	2680.0	25.15	24.14	23.14	21.95	20.94	19.94
		2593.0	25.01	24.01	23.01	21.81	20.81	19.81
		2506.0	25.34	24.31	23.33	22.14	21.11	20.13

LTE Band 66-EIRP
Limits: $\leq 30\text{dBm}(1\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			EIRP(dBm)(Gt-Lc =-2.1)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	1779.3	23.79	23.04	22.12	21.69	20.94	20.02
		1745.0	23.98	23.03	22.57	21.88	20.93	20.47
		1710.7	23.99	23.08	22.19	21.89	20.98	20.09
	1 RB low	1779.3	23.83	23.05	22.15	21.73	20.95	20.05
		1745.0	23.99	23.06	22.61	21.89	20.96	20.51
		1710.7	24.00	23.04	22.17	21.90	20.94	20.07
	50% RB mid	1779.3	23.88	23.08	22.03	21.78	20.98	19.93
		1745.0	24.00	23.11	22.46	21.90	21.01	20.36
		1710.7	24.01	23.08	22.52	21.91	20.98	20.42
	100% RB	1779.3	22.91	22.24	21.12	20.81	20.14	19.02
		1745.0	23.09	22.35	21.19	20.99	20.25	19.09
		1710.7	23.07	22.32	21.18	20.97	20.22	19.08
3MHz	1 RB high	1778.5	23.79	22.90	21.97	21.69	20.80	19.87
		1745.0	24.02	23.08	22.19	21.92	20.98	20.09
		1711.5	24.04	23.08	22.21	21.94	20.98	20.11
	1 RB low	1778.5	23.86	22.97	22.10	21.76	20.87	20.00
		1745.0	24.01	23.10	22.24	21.91	21.00	20.14
		1711.5	24.01	23.11	22.22	21.91	21.01	20.12
	50% RB mid	1778.5	22.85	22.09	20.97	20.75	19.99	18.87
		1745.0	22.98	22.20	21.09	20.88	20.10	18.99
		1711.5	23.03	22.23	21.13	20.93	20.13	19.03
	100% RB	1778.5	22.93	22.03	21.10	20.83	19.93	19.00
		1745.0	23.04	22.16	21.20	20.94	20.06	19.10
		1711.5	23.06	22.16	21.23	20.96	20.06	19.13
5MHz	1 RB high	1777.5	23.94	22.95	22.31	21.84	20.85	20.21
		1745.0	24.07	23.06	22.49	21.97	20.96	20.39
		1712.5	24.11	23.12	22.53	22.01	21.02	20.43
	1 RB low	1777.5	23.99	23.00	22.38	21.89	20.90	20.28
		1745.0	24.10	23.12	22.48	22.00	21.02	20.38
		1712.5	24.13	23.13	22.54	22.03	21.03	20.44
	50% RB mid	1777.5	22.88	22.15	21.06	20.78	20.05	18.96
		1745.0	22.97	22.28	21.12	20.87	20.18	19.02
		1712.5	23.03	22.27	21.18	20.93	20.17	19.08
	100% RB	1777.5	22.96	22.08	21.11	20.86	19.98	19.01
		1745.0	23.01	22.13	21.18	20.91	20.03	19.08
		1712.5	23.07	22.16	21.22	20.97	20.06	19.12
	1 RB high	1775.0	23.83	22.90	21.98	21.73	20.80	19.88

10MHz		1745.0	24.01	23.06	22.15	21.91	20.96	20.05
		1715.0	24.02	23.06	22.17	21.92	20.96	20.07
	1 RB low	1775.0	23.92	23.00	22.05	21.82	20.90	19.95
		1745.0	24.03	23.07	22.14	21.93	20.97	20.04
		1715.0	24.04	23.06	22.17	21.94	20.96	20.07
	50% RB mid	1775.0	22.94	22.22	21.15	20.84	20.12	19.05
		1745.0	22.99	22.32	21.21	20.89	20.22	19.11
		1715.0	23.05	22.29	21.25	20.95	20.19	19.15
	100% RB	1775.0	23.04	22.18	21.16	20.94	20.08	19.06
		1745.0	23.12	22.29	21.23	21.02	20.19	19.13
		1715.0	23.09	22.24	21.19	20.99	20.14	19.09
15MHz	1 RB high	1772.5	23.70	23.21	22.33	21.60	21.11	20.23
		1745.0	23.87	23.38	22.45	21.77	21.28	20.35
		1717.5	23.88	23.39	22.39	21.78	21.29	20.29
	1 RB low	1772.5	23.83	23.28	22.41	21.73	21.18	20.31
		1745.0	23.93	23.39	22.50	21.83	21.29	20.40
		1717.5	23.92	23.42	22.37	21.82	21.32	20.27
	50% RB mid	1772.5	22.90	22.10	21.05	20.80	20.00	18.95
		1745.0	22.97	22.15	21.13	20.87	20.05	19.03
		1717.5	23.01	22.10	21.17	20.91	20.00	19.07
	100% RB	1772.5	22.98	22.08	21.16	20.88	19.98	19.06
		1745.0	23.05	22.17	21.23	20.95	20.07	19.13
		1717.5	22.99	22.15	21.17	20.89	20.05	19.07
20MHz	1 RB high	1770.0	23.72	23.42	21.74	21.62	21.32	19.64
		1745.0	23.92	23.60	21.98	21.82	21.50	19.88
		1720.0	23.86	23.60	21.88	21.76	21.50	19.78
	1 RB low	1770.0	23.85	23.56	21.86	21.75	21.46	19.76
		1745.0	23.82	23.55	21.84	21.72	21.45	19.74
		1720.0	23.90	23.55	21.94	21.80	21.45	19.84
	50% RB mid	1770.0	22.88	22.11	20.96	20.78	20.01	18.86
		1745.0	22.97	22.15	21.08	20.87	20.05	18.98
		1720.0	23.12	22.18	21.30	21.02	20.08	19.20
	100% RB	1770.0	22.91	22.03	21.01	20.81	19.93	18.91
		1745.0	23.08	22.22	21.20	20.98	20.12	19.10
		1720.0	23.08	22.22	21.22	20.98	20.12	19.12

LTE Band 71-ERP
Limits: $\leq 34.77\text{dBm}(3\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-3.8)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5MHz	1 RB high	695.5	23.37	22.43	21.47	17.42	16.48	15.52
		680.5	23.35	22.52	21.54	17.40	16.57	15.59
		665.5	23.44	22.54	21.48	17.49	16.59	15.53
	1 RB low	695.5	23.35	22.61	21.50	17.40	16.66	15.55
		680.5	23.38	22.57	21.46	17.43	16.62	15.51
		665.5	23.47	22.76	21.61	17.52	16.81	15.66
	50% RB mid	695.5	23.39	22.38	21.46	17.44	16.43	15.51
		680.5	23.42	22.39	21.42	17.47	16.44	15.47
		665.5	23.48	22.49	21.47	17.53	16.54	15.52
	100% RB	695.5	22.35	21.41	20.32	16.40	15.46	14.37
		680.5	22.39	21.41	20.32	16.44	15.46	14.37
		665.5	22.45	21.50	20.35	16.50	15.55	14.40
10MHz	1 RB high	693.0	23.41	22.62	21.48	17.46	16.67	15.53
		680.5	23.40	22.64	21.60	17.45	16.69	15.65
		668.0	23.48	22.72	21.49	17.53	16.77	15.54
	1 RB low	693.0	23.40	22.67	21.52	17.45	16.72	15.57
		680.5	23.42	22.63	21.58	17.47	16.68	15.63
		668.0	23.51	22.75	21.56	17.56	16.80	15.61
	50% RB mid	693.0	22.32	21.39	20.37	16.37	15.44	14.42
		680.5	22.35	21.41	20.36	16.40	15.46	14.41
		668.0	22.45	21.48	20.43	16.50	15.53	14.48
	100% RB	693.0	22.39	21.40	20.37	16.44	15.45	14.42
		680.5	22.37	21.43	20.38	16.42	15.48	14.43
		668.0	22.43	21.46	20.41	16.48	15.51	14.46
15MHz	1 RB high	690.5	23.43	22.51	21.49	17.48	16.56	15.54
		680.5	23.42	22.61	21.45	17.47	16.66	15.50
		670.5	23.52	22.64	21.63	17.57	16.69	15.68
	1 RB low	690.5	23.47	22.67	21.47	17.52	16.72	15.52
		680.5	23.49	22.71	21.65	17.54	16.76	15.70
		670.5	23.55	22.69	21.66	17.60	16.74	15.71
	50% RB mid	690.5	22.35	21.34	20.35	16.40	15.39	14.40
		680.5	22.40	21.37	20.32	16.45	15.42	14.37
		670.5	22.43	21.36	20.41	16.48	15.41	14.46
	100% RB	690.5	22.42	21.39	20.37	16.47	15.44	14.42
		680.5	22.42	21.40	20.38	16.47	15.45	14.43
		670.5	22.48	21.40	20.45	16.53	15.45	14.50
20MHz	1 RB high	688.0	23.42	22.56	21.45	17.47	16.61	15.50

		680.5	23.40	22.62	21.45	17.45	16.67	15.50
		673.0	23.42	22.64	21.52	17.47	16.69	15.57
	1 RB low	688.0	23.54	22.70	21.58	17.59	16.75	15.63
		680.5	23.58	22.81	21.59	17.63	16.86	15.64
		673.0	23.64	22.73	21.77	17.69	16.78	15.82
	50% RB mid	688.0	22.55	21.52	20.49	16.60	15.57	14.54
		680.5	22.57	21.54	20.50	16.62	15.59	14.55
		673.0	22.58	21.58	20.55	16.63	15.63	14.60
	100% RB	688.0	22.49	21.40	20.41	16.54	15.45	14.46
		680.5	22.52	21.49	20.47	16.57	15.54	14.52
		673.0	22.52	21.52	20.48	16.57	15.57	14.53

LTE band 41_CA

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	EIRP(dBm)(Gt-Lc =-3.2)
				Size	Offset	Size	Offset		
5MHz/ 20MHz	2583.8	2595.5	QPSK	1	24	1	0	25.54	22.34
				25	0	100	0	23.92	20.72
			16QAM	1	24	1	0	24.18	20.98
				25	0	100	0	22.90	19.70
			64QAM	1	24	1	0	22.78	19.58
				25	0	100	0	22.94	19.74
20MHz/ 5MHz	2590.5	2602.2	QPSK	1	99	1	0	26.06	22.86
				100	0	25	0	24.05	20.85
			16QAM	1	99	1	0	24.47	21.27
				100	0	25	0	23.05	19.85
			64QAM	1	99	1	0	22.71	19.51
				100	0	25	0	23.04	19.84
10MHz/ 15MHz	2585.9	2597.9	QPSK	1	49	1	0	25.85	22.65
				50	0	75	0	23.89	20.69
			16QAM	1	49	1	0	24.28	21.08
				50	0	75	0	22.95	19.75
			64QAM	1	49	1	0	22.50	19.30
				50	0	75	0	22.95	19.75
15MHz/ 10MHz	2588.1	2600.1	QPSK	1	74	1	0	26.27	23.07
				75	0	50	0	24.09	20.89
			16QAM	1	74	1	0	24.68	21.48
				75	0	50	0	23.10	19.90
			64QAM	1	74	1	0	22.83	19.63
				75	0	50	0	23.13	19.93
10MHz/ 20MHz	2583.6	2598	QPSK	1	49	1	0	26.32	23.12
				50	0	100	0	24.07	20.87
			16QAM	1	49	1	0	24.76	21.56
				50	0	100	0	23.01	19.81
			64QAM	1	49	1	0	22.91	19.71
				50	0	100	0	23.07	19.87
20MHz/ 10MHz	2588.1	2602.5	QPSK	1	99	1	0	26.09	22.89
				100	0	50	0	23.97	20.77
			16QAM	1	99	1	0	24.48	21.28
				100	0	50	0	22.95	19.75
			64QAM	1	99	1	0	22.73	19.53
				100	0	50	0	22.97	19.77
15MHz/ 15MHz	2585.5	2600.5	QPSK	1	74	1	0	26.10	22.90
				75	0	75	0	24.13	20.93

			16QAM	1	74	1	0	24.62	21.42
				75	0	75	0	23.12	19.92
			64QAM	1	74	1	0	23.16	19.96
				75	0	75	0	23.16	19.96
15MHz/ 20MHz	2583.3	2600.4	QPSK	1	74	1	0	26.08	22.88
				75	0	100	0	24.05	20.85
			16QAM	1	74	1	0	24.70	21.50
				75	0	100	0	23.02	19.82
			64QAM	1	74	1	0	23.12	19.92
				75	0	100	0	23.04	19.84
20MHz/ 15MHz	2585.6	2602.7	QPSK	1	99	1	0	26.18	22.98
				100	0	75	0	24.01	20.81
			16QAM	1	99	1	0	24.68	21.48
				100	0	75	0	23.00	19.80
			64QAM	1	99	1	0	23.21	20.01
				100	0	75	0	23.05	19.85
20MHz/ 20MHz	2583.1	2602.9	QPSK	1	99	1	0	26.07	22.87
				100	0	100	0	23.90	20.70
			16QAM	1	99	1	0	24.58	21.38
				100	0	100	0	22.86	19.66
			64QAM	1	99	1	0	23.04	19.84
				100	0	100	0	22.92	19.72

A.2 Emission Limit

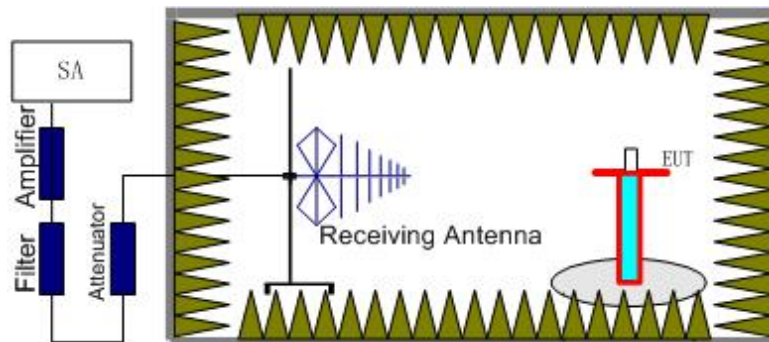
A.2.1 Measurement Method

The measurements procedures in TIA-603E-2016 are used. This measurement is carried out in fully anechoic chamber FAC-3.

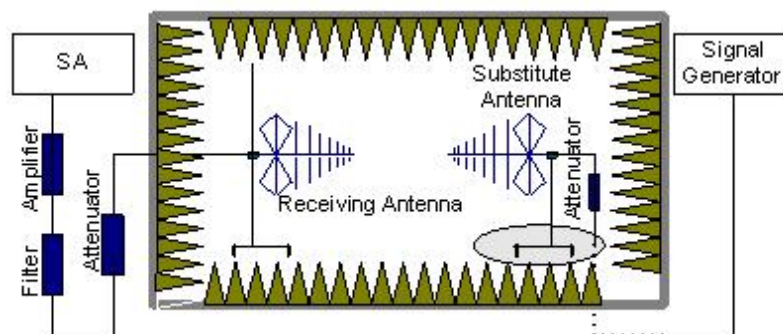
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of each LTE Band.

The procedure of radiated spurious emissions is as follows:

1. EUT was placed on a 1.5-meter-high non-conductive stand at a 3-meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360 and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is

connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna. Adjust the level of the signal generator output until the value of the receiver reaches the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss (P_{pl}) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (G_a) should be recorded after test.

An amplifier should be connected in for the test.

The Path loss (P_{pl}) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

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

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (unit: dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dB}$.

A.2.2 Measurement Limit

FDD Band 2/25: Part 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 4/66: Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FDD Band 7/TDD Band 38/41: Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less 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: Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

LTE Band 26(814MHz~824MHz): Part 90.691 states that out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior

channels used by incumbent licensees. The emission limits are as follows: For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116\log_{10}(f/6.1)$ decibels or $50 + 10\log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

FDD Band 5/26(824MHz~849MHz): Part 22.917 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.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of each LTE Band. 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 each LTE Band 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.

LTE Band 2, 1.4MHz, QPSK, Channel 18607

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3702.02	-58.98	6.42	8.48	-56.92	-13.00	43.92	H
5555.02	-50.49	7.19	10.59	-47.09	-13.00	34.09	V
7408.01	-45.37	8.14	12.09	-41.42	-13.00	28.42	H
9264.01	-50.19	9.07	13.26	-46.00	-13.00	33.00	H
11125.01	-48.20	9.73	13.17	-44.76	-13.00	31.76	H
12977.01	-46.05	10.48	13.49	-43.04	-13.00	30.04	H

LTE Band 2, 1.4MHz, QPSK, Channel 18900

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3760.02	-57.81	6.26	8.56	-55.51	-13.00	42.51	H
5646.02	-54.52	7.27	10.57	-51.22	-13.00	38.22	H
7524.01	-45.21	8.29	12.22	-41.28	-13.00	28.28	V
9409.01	-49.89	9.08	13.35	-45.62	-13.00	32.62	H
11301.01	-49.09	10.00	13.14	-45.95	-13.00	32.95	H
13111.01	-44.00	10.89	13.66	-41.23	-13.00	28.23	H

LTE Band 2, 1.4MHz, QPSK, Channel 19193

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3779.02	-59.39	6.20	8.59	-57.00	-13.00	44.00	H
5731.02	-53.09	7.29	10.55	-49.83	-13.00	36.83	V
7639.01	-42.48	8.15	12.31	-38.32	-13.00	25.32	H
9549.01	-49.51	9.36	13.35	-45.52	-13.00	32.52	H
11465.01	-45.48	9.90	13.11	-42.27	-13.00	29.27	H
13371.01	-42.26	10.57	14.02	-38.81	-13.00	25.81	H

LTE Band 7, 5 MHz, QPSK, Channel 20775

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4994.02	-59.76	6.61	9.89	-56.48	-25.00	31.48	V
7511.01	-50.84	8.35	12.21	-46.98	-25.00	21.98	V
10026.01	-51.73	9.25	12.91	-48.07	-25.00	23.07	H
12519.01	-48.98	10.23	13.21	-46.00	-25.00	21.00	H
15004.00	-42.94	11.22	14.00	-40.16	-25.00	15.16	V
17508.00	-38.57	12.75	14.91	-36.41	-25.00	11.41	V

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5085.02	-59.50	6.73	10.02	-56.21	-25.00	31.21	H
7606.01	-53.17	8.00	12.28	-48.89	-25.00	23.89	H
10120.01	-53.16	9.43	12.95	-49.64	-25.00	24.64	V
12664.01	-48.71	10.36	13.30	-45.77	-25.00	20.77	H
15195.00	-43.20	11.40	13.88	-40.72	-25.00	15.72	V
17733.00	-39.69	12.37	15.23	-36.83	-25.00	11.83	V

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5144.02	-58.74	6.87	10.10	-55.51	-25.00	30.51	H
7706.01	-52.56	8.42	12.36	-48.62	-25.00	23.62	V
10283.01	-50.42	9.58	13.01	-46.99	-25.00	21.99	H
12818.01	-47.27	10.72	13.39	-44.60	-25.00	19.60	H
15401.00	-42.99	11.39	13.76	-40.62	-25.00	15.62	H
17977.00	-39.63	12.90	15.57	-36.96	-25.00	11.96	V

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1400.01	-54.85	3.24	4.98	2.15	-55.26	-13.00	42.26	H
2099.00	-37.08	4.19	4.90	2.15	-38.52	-13.00	25.52	V
2799.00	-46.14	4.91	6.64	2.15	-46.56	-13.00	33.56	V
3499.02	-56.75	5.52	8.20	2.15	-56.22	-13.00	43.22	V
4186.02	-58.31	6.17	9.09	2.15	-57.54	-13.00	44.54	H
4907.01	-57.87	6.73	9.81	2.15	-56.94	-13.00	43.94	H

LTE Band 12, 1.4MHz, QPSK, Channel 23095

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1403.01	-56.21	3.24	5.00	2.15	-56.60	-13.00	43.60	H
2123.00	-38.98	4.21	4.97	2.15	-40.37	-13.00	27.37	V
2815.00	-46.74	4.93	6.67	2.15	-47.15	-13.00	34.15	V
3538.02	-54.52	5.70	8.25	2.15	-54.12	-13.00	41.12	H
4230.02	-58.28	6.26	9.13	2.15	-57.56	-13.00	44.56	V
4939.01	-57.05	6.71	9.84	2.15	-56.07	-13.00	43.07	H

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1431.01	-55.97	3.28	5.14	2.15	-56.26	-13.00	43.26	H
2146.00	-40.50	4.24	5.04	2.15	-41.85	-13.00	28.85	V
2871.00	-45.94	4.97	6.77	2.15	-46.29	-13.00	33.29	V
3577.02	-53.96	6.10	8.31	2.15	-53.90	-13.00	40.90	H
4304.02	-58.58	6.19	9.20	2.15	-57.72	-13.00	44.72	V
5017.01	-57.15	6.57	9.92	2.15	-55.95	-13.00	42.95	V

LTE Band 13, 5MHz, QPSK, Channel 23205

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1557.29	-65.99	3.47	5.40	2.15	-66.21	-13.00	53.21	H
2338.98	-46.55	4.44	5.62	2.15	-47.52	-13.00	34.52	V
3118.52	-52.84	5.38	7.28	2.15	-53.09	-13.00	40.09	V
3896.52	-59.45	6.11	8.76	2.15	-58.95	-13.00	45.95	V
4677.52	-58.35	6.49	9.58	2.15	-57.41	-13.00	44.41	H
5459.51	-58.42	6.91	10.54	2.15	-56.94	-13.00	43.94	V

LTE Band 13, 5MHz, QPSK, Channel 23230

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1563.28	-66.22	3.48	5.39	0.00	-66.46	-40.00	26.46	H
2346.70	-47.32	4.45	5.64	2.15	-48.28	-13.00	35.28	V
3129.02	-55.79	5.40	7.31	2.15	-56.03	-13.00	43.03	V
3910.52	-59.01	6.12	8.77	2.15	-58.51	-13.00	45.51	V
4687.52	-58.07	6.49	9.59	2.15	-57.12	-13.00	44.12	H
5476.01	-57.83	6.97	10.57	2.15	-56.38	-13.00	43.38	H

LTE Band 13, 5MHz, QPSK, Channel 23255

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1556.45	-66.03	3.47	5.40	2.15	-66.25	-13.00	53.25	H
2354.16	-45.74	4.46	5.66	2.15	-46.69	-13.00	33.69	V
3134.02	-57.64	5.39	7.32	2.15	-57.86	-13.00	44.86	V
3928.02	-59.23	6.12	8.80	2.15	-58.70	-13.00	45.70	V
4719.02	-57.46	6.52	9.62	2.15	-56.51	-13.00	43.51	H
5482.51	-57.08	6.99	10.58	2.15	-55.64	-13.00	42.64	V

LTE Band 25, 1.4MHz, QPSK, Channel 26047

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
7408.01	-44.93	8.14	12.09	-40.98	-13.00	27.98	H
9262.01	-46.63	9.07	13.26	-42.44	-13.00	29.44	H
11233.01	-49.89	9.60	13.15	-46.34	-13.00	33.34	H
13579.01	-42.94	10.80	14.25	-39.49	-13.00	26.49	H
15096.00	-41.98	11.35	13.94	-39.39	-13.00	26.39	H
17388.00	-38.34	12.48	14.65	-36.17	-13.00	23.17	V

LTE Band 25, 1.4MHz, QPSK, Channel 26365

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
7535.01	-44.76	8.25	12.23	-40.78	-13.00	27.78	H
9421.01	-48.64	9.14	13.35	-44.43	-13.00	31.43	H
11265.01	-49.70	9.79	13.15	-46.34	-13.00	33.34	V
13149.01	-44.26	10.72	13.71	-41.27	-13.00	28.27	H
15036.00	-42.60	11.26	13.98	-39.88	-13.00	26.88	V
16950.00	-38.73	12.19	13.78	-37.14	-13.00	24.14	V

LTE Band 25, 1.4MHz, QPSK, Channel 26683

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
7662.01	-45.55	8.25	12.33	-41.47	-13.00	28.47	H
9582.01	-51.08	9.24	13.32	-47.00	-13.00	34.00	H
11499.01	-48.82	9.81	13.10	-45.53	-13.00	32.53	V
13429.01	-44.27	10.59	14.10	-40.76	-13.00	27.76	H
15270.00	-43.21	11.31	13.84	-40.68	-13.00	27.68	V
17242.00	-38.33	12.36	14.33	-36.36	-13.00	23.36	V

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

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.01	-55.69	3.56	5.23	2.15	-56.17	-13.00	43.17	V
2457.00	-31.64	4.58	5.97	2.15	-32.40	-13.00	19.40	V
3299.02	-56.98	5.29	7.72	2.15	-56.70	-13.00	43.70	H
4125.02	-57.26	6.04	9.03	2.15	-56.42	-13.00	43.42	V
4951.01	-55.79	6.69	9.85	2.15	-54.78	-13.00	41.78	H
5768.01	-56.94	7.24	10.55	2.15	-55.78	-13.00	42.78	H

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

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1668.01	-55.94	3.58	5.20	2.15	-56.47	-13.00	43.47	V
2510.00	-39.88	4.63	6.12	2.15	-40.54	-13.00	27.54	V
3347.02	-58.54	5.32	7.83	2.15	-58.18	-13.00	45.18	H
4186.02	-53.68	6.17	9.09	2.15	-52.91	-13.00	39.91	V
5024.01	-57.24	6.56	9.93	2.15	-56.02	-13.00	43.02	V
5865.01	-56.92	7.28	10.53	2.15	-55.82	-13.00	42.82	H

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

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.01	-55.08	3.61	5.12	2.15	-55.72	-13.00	42.72	H
2564.00	-46.88	4.68	6.22	2.15	-47.49	-13.00	34.49	H
3407.02	-59.59	5.37	7.98	2.15	-59.13	-13.00	46.13	H
4236.02	-58.16	6.25	9.14	2.15	-57.42	-13.00	44.42	V
5102.01	-56.23	6.78	10.04	2.15	-55.12	-13.00	42.12	V
5925.01	-55.91	7.47	10.51	2.15	-55.02	-13.00	42.02	H

LTE Band 26(814MHz~824MHz), 1.4MHz, QPSK, Channel 26697

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
2457.00	-31.51	4.58	5.97	2.15	-32.27	-13.00	19.27	V
6510.01	-55.66	7.51	11.01	2.15	-54.31	-13.00	41.31	H
7331.01	-52.80	8.10	12.00	2.15	-51.05	-13.00	38.05	H
8145.01	-53.43	8.41	12.72	2.15	-51.27	-13.00	38.27	V
8947.00	-51.69	9.01	13.09	2.15	-49.76	-13.00	36.76	H
9765.00	-51.67	8.96	13.13	2.15	-49.65	-13.00	36.65	H

LTE Band 26(814MHz~824MHz), 1.4MHz, QPSK, Channel 26740

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1638.01	-55.71	3.56	5.25	2.15	-56.17	-13.00	43.17	V
2456.00	-44.74	4.58	5.97	2.15	-45.50	-13.00	32.50	V
3294.02	-60.11	5.29	7.71	2.15	-59.84	-13.00	46.84	V
4107.02	-58.92	6.04	9.01	2.15	-58.10	-13.00	45.10	V
4909.01	-57.62	6.73	9.81	2.15	-56.69	-13.00	43.69	H
5714.01	-56.33	7.30	10.56	2.15	-55.22	-13.00	42.22	H

LTE Band 26(814MHz~824MHz), 1.4MHz, QPSK, Channel 26783

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
2463.00	-42.23	4.59	5.99	2.15	-42.98	-13.00	29.98	H
6735.01	-53.02	7.98	11.28	2.15	-51.87	-13.00	38.87	H
7445.01	-51.25	8.24	12.13	2.15	-49.51	-13.00	36.51	H
8430.00	-52.22	8.65	12.94	2.15	-50.08	-13.00	37.08	H
8960.00	-50.65	9.06	13.09	2.15	-48.77	-13.00	35.77	V
9778.00	-51.61	8.99	13.12	2.15	-49.63	-13.00	36.63	H

LTE Band 41, 5MHz, QPSK, Channel 39675

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4994.02	-60.27	6.61	9.89	-56.99	-25.00	31.99	V
7499.01	-51.12	8.39	12.20	-47.31	-25.00	22.31	H
9997.01	-54.36	9.18	12.90	-50.64	-25.00	25.64	H
12493.01	-49.69	10.19	13.20	-46.68	-25.00	21.68	V
14989.00	-43.58	11.21	14.01	-40.78	-25.00	15.78	V
17486.00	-37.62	12.69	14.87	-35.44	-25.00	10.44	V

LTE Band 41, 5MHz, QPSK, Channel 40620

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2593.00	20.18	4.70	6.27	21.75	-25.00	-46.75	V
6509.02	-57.60	7.51	11.01	-54.10	-25.00	29.10	H
7780.01	-49.27	8.31	12.42	-45.16	-25.00	20.16	V
9086.01	-53.36	8.97	13.15	-49.18	-25.00	24.18	H
10375.01	-51.24	9.76	13.05	-47.95	-25.00	22.95	H
11693.01	-49.97	9.62	13.06	-46.53	-25.00	21.53	V

LTE Band 41, 5MHz, QPSK, Channel 41565

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4051.02	-60.23	6.04	8.95	-57.32	-25.00	32.32	V
5377.02	-60.13	6.88	10.43	-56.58	-25.00	31.58	H
6710.02	-55.06	7.98	11.25	-51.79	-25.00	26.79	H
8065.01	-53.49	8.32	12.65	-49.16	-25.00	24.16	H
9406.01	-53.51	9.07	13.34	-49.24	-25.00	24.24	H
10756.01	-50.15	9.44	13.15	-46.44	-25.00	21.44	V

LTE Band 66, 1.4MHz QPSK, Channel 131979

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3422.02	-67.87	5.38	8.01	-65.24	-13.00	52.24	H
5133.02	-59.41	6.86	10.09	-56.18	-13.00	43.18	H
6847.01	-61.82	7.83	11.42	-58.23	-13.00	45.23	H
8556.01	-62.29	8.57	13.01	-57.85	-13.00	44.85	H
10271.01	-62.73	9.54	13.01	-59.26	-13.00	46.26	H
11997.01	-51.22	10.07	13.00	-48.29	-13.00	35.29	H

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3490.02	-69.56	5.50	8.18	-66.88	-13.00	53.88	H
5235.02	-55.86	7.00	10.23	-52.63	-13.00	39.63	H
6984.01	-62.91	8.17	11.58	-59.50	-13.00	46.50	V
8732.01	-62.99	8.46	13.05	-58.40	-13.00	45.40	H
10483.01	-62.00	9.68	13.09	-58.59	-13.00	45.59	H
12243.01	-55.59	10.03	13.10	-52.52	-13.00	39.52	H

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3559.02	-68.09	5.92	8.28	-65.73	-13.00	52.73	H
5339.02	-62.57	6.96	10.37	-59.16	-13.00	46.16	V
7118.01	-64.24	8.16	11.74	-60.66	-13.00	47.66	V
8898.01	-56.92	8.84	13.08	-52.68	-13.00	39.68	H
10677.01	-61.15	9.30	13.14	-57.31	-13.00	44.31	H
12457.01	-58.70	10.29	13.18	-55.81	-13.00	42.81	H

LTE Band 71, 5MHz, QPSK, Channel 133147

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1331.01	-56.16	3.15	4.62	2.15	-56.84	-13.00	43.84	H
1997.01	-34.22	4.04	4.61	2.15	-35.80	-13.00	22.80	V
2671.00	-46.48	4.76	6.41	2.15	-46.98	-13.00	33.98	V
3329.02	-53.33	5.30	7.79	2.15	-52.99	-13.00	39.99	V
4000.02	-57.66	6.07	8.90	2.15	-56.98	-13.00	43.98	H
4637.02	-57.85	6.45	9.54	2.15	-56.91	-13.00	43.91	V

LTE Band 71, 5MHz, QPSK, Channel 133297

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1361.01	-55.50	3.19	4.78	2.15	-56.06	-13.00	43.06	H
2042.00	-36.63	4.14	4.73	2.15	-38.19	-13.00	25.19	H
2733.00	-46.09	4.82	6.52	2.15	-46.54	-13.00	33.54	H
3403.02	-52.58	5.36	7.97	2.15	-52.12	-13.00	39.12	H
4097.02	-58.60	6.04	9.00	2.15	-57.79	-13.00	44.79	H
4766.01	-56.45	6.60	9.67	2.15	-55.53	-13.00	42.53	H

LTE Band 71, 5MHz, QPSK, Channel 133447

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1392.01	-55.90	3.23	4.94	2.15	-56.34	-13.00	43.34	H
2059.00	-49.66	4.15	4.78	2.15	-51.18	-13.00	38.18	H
2757.00	-45.47	4.85	6.56	2.15	-45.91	-13.00	32.91	H
3498.02	-59.89	5.52	8.20	2.15	-59.36	-13.00	46.36	V
4171.02	-57.11	6.14	9.07	2.15	-56.33	-13.00	43.33	H
4893.01	-57.54	6.73	9.79	2.15	-56.63	-13.00	43.63	H

CA 2A_12A, 10M+5M, Channel 18650+23035

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3710.02	-60.63	6.40	8.49	0.00	-58.54	-13.00	45.54	H
5569.02	-50.85	7.20	10.59	0.00	-47.46	-13.00	34.46	V
7426.01	-41.41	8.19	12.11	0.00	-37.49	-13.00	24.49	H
1404.01	-45.70	3.24	5.00	2.15	-46.09	-13.00	33.09	V
2105.00	-42.84	4.20	4.92	2.15	-44.27	-13.00	31.27	V
2802.00	-41.09	4.92	6.64	2.15	-41.52	-13.00	28.52	V

CA 2A_12A, 10M+5M, Channel 18900+23095

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3750.02	-58.53	6.29	8.55	0.00	-56.27	-13.00	43.27	H
5643.02	-51.24	7.27	10.57	0.00	-47.94	-13.00	34.94	V
7526.01	-43.19	8.28	12.22	0.00	-39.25	-13.00	26.25	H
1417.01	-41.63	3.26	5.07	2.15	-41.97	-13.00	28.97	V
2109.00	-44.83	4.20	4.93	2.15	-46.25	-13.00	33.25	V
2813.00	-41.12	4.93	6.66	2.15	-41.54	-13.00	28.54	V

CA 2A_12A, 10M+5M, Channel 19150+23035

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3811.02	-58.19	6.10	8.64	0.00	-55.65	-13.00	42.65	H
5720.02	-49.50	7.30	10.56	0.00	-46.24	-13.00	33.24	V
7626.01	-49.94	8.09	12.30	0.00	-45.73	-13.00	32.73	H
1427.01	-52.07	3.27	5.12	2.15	-52.37	-13.00	39.37	H
2142.00	-42.91	4.24	5.03	2.15	-44.27	-13.00	31.27	V
2860.00	-41.34	4.96	6.75	2.15	-41.70	-13.00	28.70	H

CA 12A_66A, 5M+10M, Channel 23035+132022

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1399.01	-65.78	3.23	4.97	2.15	-66.19	-13.00	53.19	H
2113.00	-47.58	4.20	4.94	2.15	-48.99	-13.00	35.99	V
2814.00	-56.24	4.93	6.67	2.15	-56.65	-13.00	43.65	V
3450.02	-72.14	5.43	8.08	0.00	-69.49	-13.00	56.49	V
5144.02	-69.10	6.87	10.10	0.00	-65.87	-13.00	52.87	H
6865.01	-64.71	7.80	11.44	0.00	-61.07	-13.00	48.07	H

CA 12A_66A, 5M+10M, Channel 23095+132322

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1401.01	-65.81	3.24	4.99	2.15	-66.21	-13.00	53.21	H
2148.00	-48.32	4.24	5.04	2.15	-49.67	-13.00	36.67	V
2887.00	-55.93	4.97	6.80	2.15	-56.25	-13.00	43.25	H
3538.02	-70.89	5.70	8.25	0.00	-68.34	-13.00	55.34	V
5240.02	-69.27	7.00	10.24	0.00	-66.03	-13.00	53.03	H
6984.01	-65.11	8.17	11.58	0.00	-61.70	-13.00	48.70	H

CA 12A_66A, 5M+10M, Channel 23155+132622

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1401.01	-65.70	3.24	4.99	2.15	-66.10	-13.00	53.10	H
2173.00	-51.85	4.28	5.12	2.15	-53.16	-13.00	40.16	V
2886.00	-55.76	4.97	6.79	2.15	-56.09	-13.00	43.09	H
3568.02	-69.42	6.01	8.30	0.00	-67.13	-13.00	54.13	H
5330.02	-68.40	6.98	10.36	0.00	-65.02	-13.00	52.02	H
7067.01	-65.88	8.20	11.68	0.00	-62.40	-13.00	49.40	H

CA 2A_66A, 10M+10M, Channel 18650+23035

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3710.02	-66.95	6.40	8.49	-64.86	-13.00	51.86	H
5566.02	-57.64	7.20	10.59	-54.25	-13.00	41.25	H
7424.01	-57.33	8.18	12.11	-53.40	-13.00	40.40	H
3471.02	-71.90	5.47	8.13	-69.24	-13.00	56.24	V
5144.02	-69.06	6.87	10.10	-65.83	-13.00	52.83	H
6884.01	-65.14	7.78	11.46	-61.46	-13.00	48.46	H

CA 2A_66A, 10M+10M, Channel 18900+ 132322

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3760.02	-65.36	6.26	8.56	-63.06	-13.00	50.06	H
5644.02	-58.09	7.27	10.57	-54.79	-13.00	41.79	V
7524.01	-60.64	8.29	12.22	-56.71	-13.00	43.71	H
3490.02	-71.66	5.50	8.18	-68.98	-13.00	55.98	V
5238.02	-63.15	7.00	10.23	-59.92	-13.00	46.92	V
6998.01	-65.66	8.28	11.60	-62.34	-13.00	49.34	V

CA 2A_66A, 10M+10M, Channel 19150+132622

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3810.02	-66.53	6.11	8.63	-64.01	-13.00	51.01	H
5719.02	-61.12	7.30	10.56	-57.86	-13.00	44.86	V
7626.01	-59.08	8.09	12.30	-54.87	-13.00	41.87	H
3602.02	-69.72	6.36	8.34	-67.74	-13.00	54.74	H
5327.02	-63.35	6.98	10.36	-59.97	-13.00	46.97	V
7061.01	-65.60	8.21	11.67	-62.14	-13.00	49.14	H

LTE band 41_CA, 5M+20M, Channel 39683+39800

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5001.02	-59.35	6.60	9.90	-56.05	-25.00	31.05	V
7502.01	-48.47	8.39	12.20	-44.66	-25.00	19.66	V
10006.01	-52.88	9.20	12.90	-49.18	-25.00	24.18	H
12518.01	-48.30	10.23	13.21	-45.32	-25.00	20.32	H
14993.00	-42.76	11.21	14.01	-39.96	-25.00	14.96	V
17480.00	-37.30	12.68	14.86	-35.12	-25.00	10.12	V

LTE band 41_CA, 5M+20M, Channel 40528+40645

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5155.02	-59.07	6.89	10.12	-55.84	-25.00	30.84	V
7753.01	-53.17	8.35	12.40	-49.12	-25.00	24.12	H
10324.01	-51.34	9.68	13.03	-47.99	-25.00	22.99	V
12921.01	-47.54	10.50	13.45	-44.59	-25.00	19.59	H
15479.00	-42.48	11.51	13.71	-40.28	-25.00	15.28	H
16800.00	-39.98	12.11	13.72	-38.37	-25.00	13.37	V

LTE band 41_CA, 5M+20M, Channel 41373+41490

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5335.02	-58.91	6.97	10.37	-55.51	-25.00	30.51	H
8008.01	-48.98	8.32	12.61	-44.69	-25.00	19.69	H
10687.01	-50.06	9.30	13.14	-46.22	-25.00	21.22	H
13374.01	-44.27	10.57	14.02	-40.82	-25.00	15.82	H
16046.00	-41.51	11.84	13.69	-39.66	-25.00	14.66	V
17350.00	-38.27	12.44	14.57	-36.14	-25.00	11.14	V

Note: The maximum value of expanded measurement uncertainty for this test item is $U = 5.16 \text{ dB}$, $k = 2$.

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	3.87	1850.833	1909.199		
50				-0.29	0.0002
40				-0.03	0.0000
30				-15.99	0.0085
10				-3.13	0.0017
0				-15.06	0.0080
-10				-1.97	0.0010
-20				-1.92	0.0010
-30				-4.89	0.0026

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	-1.56	0.0008
4.45				-4.38	0.0023

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	3.87	1710.833	1754.199		
50				-22.49	0.0130
40				-0.04	0.0000
30				2.00	0.0012
10				-0.64	0.0004
0				-10.89	0.0063
-10				-11.22	0.0065
-20				-0.30	0.0002
-30				-0.27	0.0002

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	1710.833	1754.199	7.10	0.0041
4.45				-11.34	0.0065

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	3.87	2500.897	2569.135		
50				0.62	0.0002
40				16.67	0.0066
30				-2.42	0.0010
10				18.48	0.0073
0				-2.55	0.0010
-10				16.32	0.0064
-20				13.53	0.0053
-30				19.08	0.0075

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	2500.897	2569.135	24.52	0.0097
4.45				0.96	0.0004

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	3.87	699.481	715.519		
50				8.38	0.0118
40				8.94	0.0126
30				1.92	0.0027
10				2.07	0.0029
0				9.26	0.0131
-10				-0.24	0.0003
-20				-1.02	0.0014
-30				-1.50	0.0021

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	699.481	715.519	0.23	0.0003
4.45				13.39	0.0189

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	3.87	777.481	786.519		
50				10.84	0.0139
40				1.03	0.0013
30				3.65	0.0047
10				2.43	0.0031
0				10.87	0.0139
-10				0.70	0.0009
-20				0.17	0.0002
-30				2.56	0.0033

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	777.481	786.519	-0.74	0.0009
4.45				2.59	0.0033

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	3.87	1850.833	1914.199		
50				-11.69	0.0062
40				-11.72	0.0062
30				-12.96	0.0069
10				-0.63	0.0003
0				-10.37	0.0055
-10				0.60	0.0003
-20				-0.53	0.0003
-30				-13.50	0.0072

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	-17.01	0.0090
4.45				-12.93	0.0069

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	3.87	814.389	823.615		
50				1.82	0.0022
40				1.09	0.0013
30				1.30	0.0016
10				1.44	0.0018
0				1.93	0.0024
-10				0.37	0.0005
-20				0.86	0.0011
-30				1.75	0.0021

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	814.389	823.615	-0.09	0.0001
4.45				-2.37	0.0029

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	3.87	824.577	848.471		
50				-2.88	0.0034
40				1.04	0.0012
30				0.62	0.0007
10				-2.15	0.0026
0				0.72	0.0009
-10				0.13	0.0002
-20				-0.94	0.0011
-30				0.59	0.0007

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	824.577	848.471	-1.02	0.0012
4.45				-0.04	0.0000

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	2496.417	2689.551		
50				-38.48	0.0148
40				-37.77	0.0146
30				-35.28	0.0136
10				-36.56	0.0141
0				-35.95	0.0139
-10				-35.79	0.0138
-20				-36.38	0.0140
-30				-38.11	0.0147

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	2496.417	2689.551	-37.84	0.0146
4.45				-41.11	0.0159

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	3.87	1710.833	1779.199		
50				0.62	0.0004
40				1.29	0.0007
30				0.92	0.0005
10				0.97	0.0006
0				-9.68	0.0055
-10				2.26	0.0013
-20				-9.56	0.0055
-30				1.06	0.0006

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	1710.833	1779.199	-8.00	0.0046
4.45				0.76	0.0004

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	663.994	697.006		
50				-1.00	0.0015
40				-1.34	0.0020
30				-1.69	0.0025
10				-3.16	0.0046
0				0.14	0.0002
-10				-2.33	0.0034
-20				0.00	0.0000
-30				-0.76	0.0011

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	663.994	697.006	1.30	0.0019
4.45				0.93	0.0014

LTE band 41_CA, 20MHz+20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	2496.880	2689.120		
50				-1.12	0.0004
40				-1.23	0.0005
30				-9.56	0.0037
10				-6.04	0.0023
0				-6.78	0.0026
-10				-6.84	0.0026
-20				-6.78	0.0026
-30				-7.73	0.0030

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.45	20	2496.880	2689.120	-2.79	0.0011
4.45				-3.76	0.0015

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.

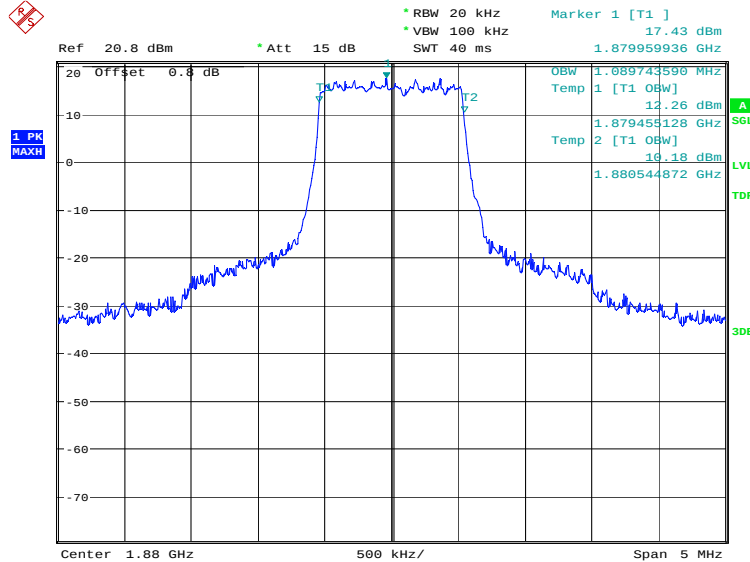
The measurement method is from ANSI C63.26:

- 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%)

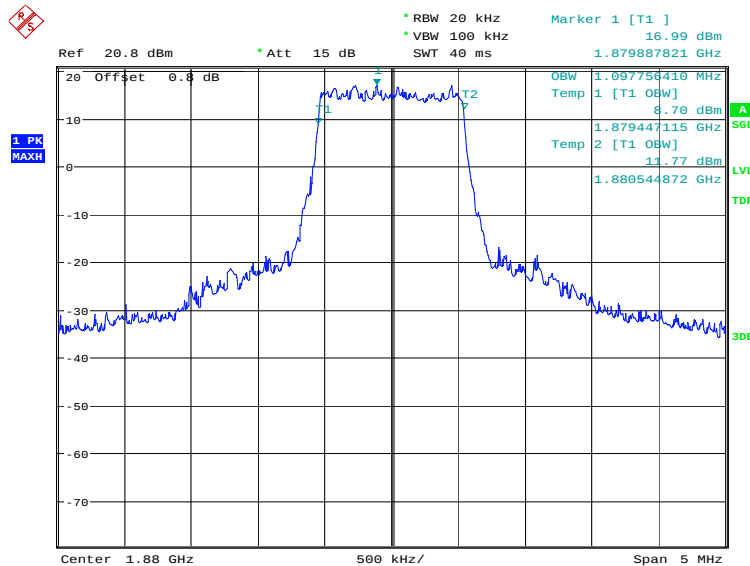
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	1089.74	1097.76

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



Date: 25.OCT.2021 09:13:42

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

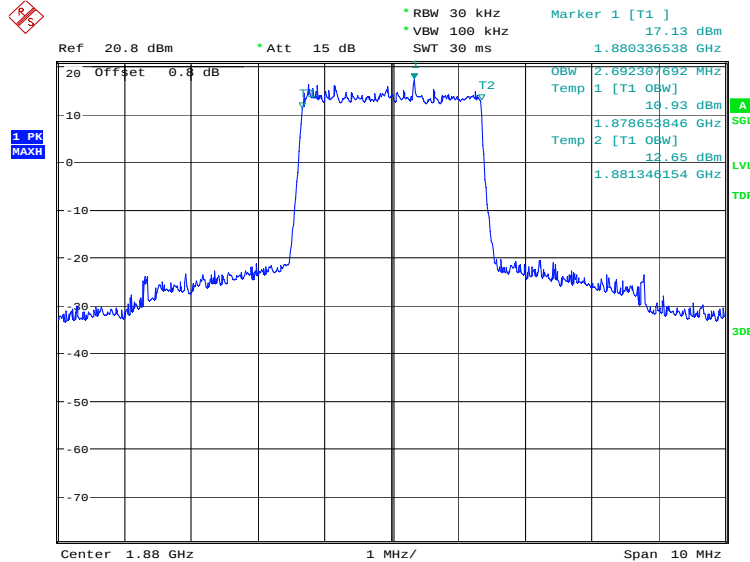


Date: 25.OCT.2021 09:14:35

LTE band 2, 3MHz (99%)

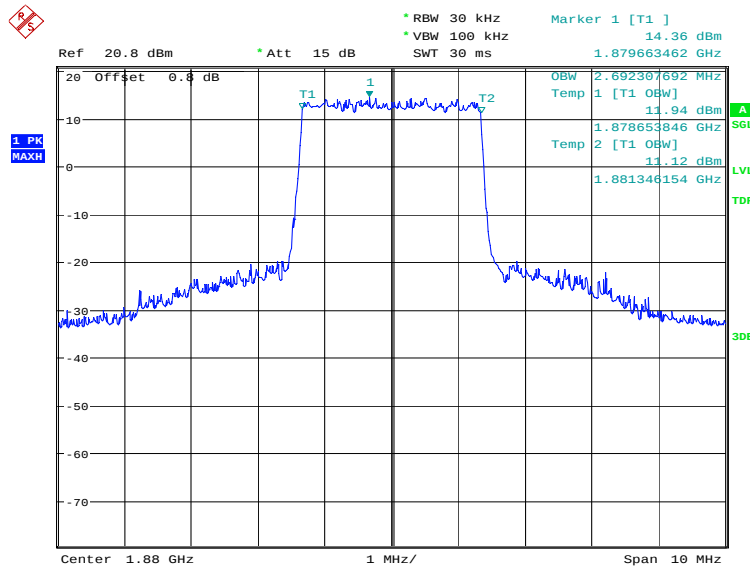
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 25.OCT.2021 09:15:29

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

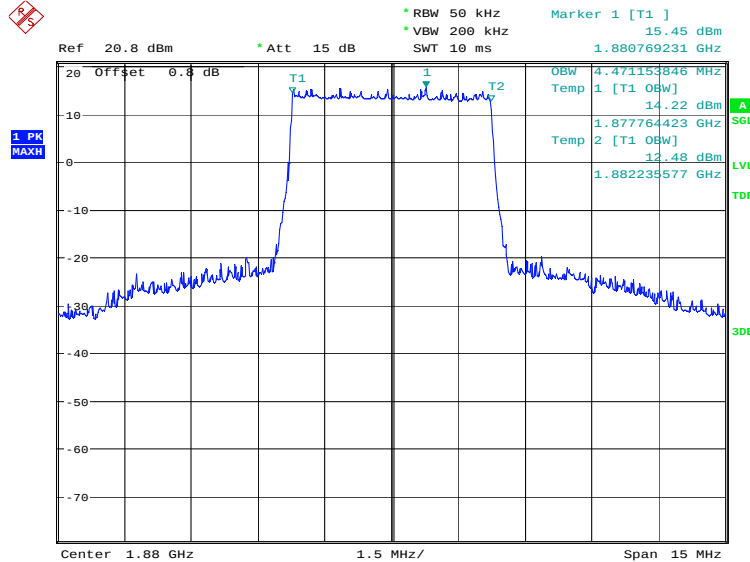


Date: 25.OCT.2021 09:16:21

LTE band 2, 5MHz (99%)

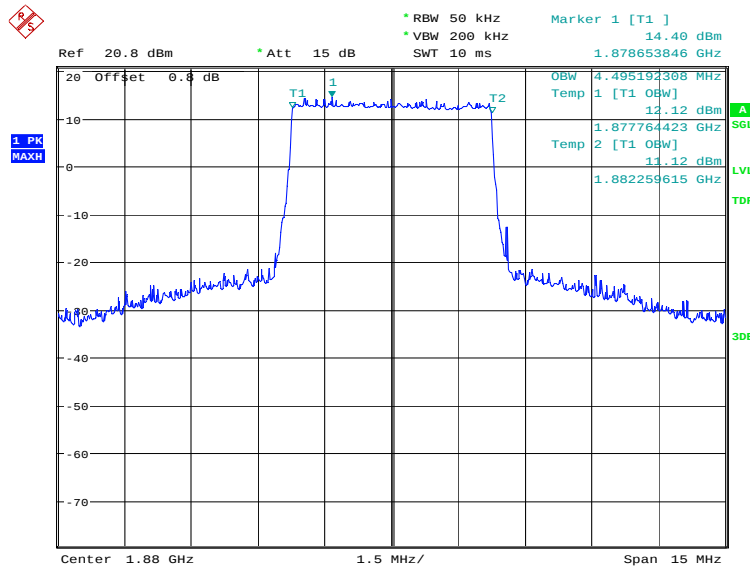
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	4471.15	4495.19

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



Date: 25.OCT.2021 09:17:16

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

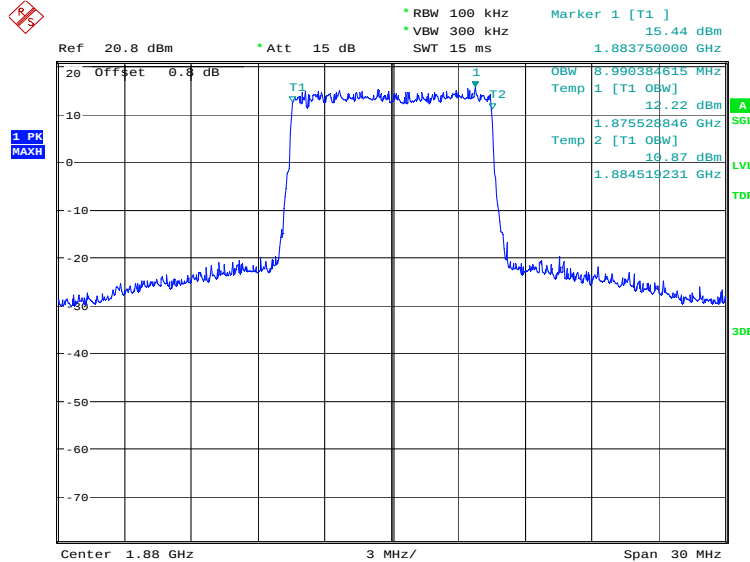


Date: 25.OCT.2021 09:18:08

LTE band 2, 10MHz (99%)

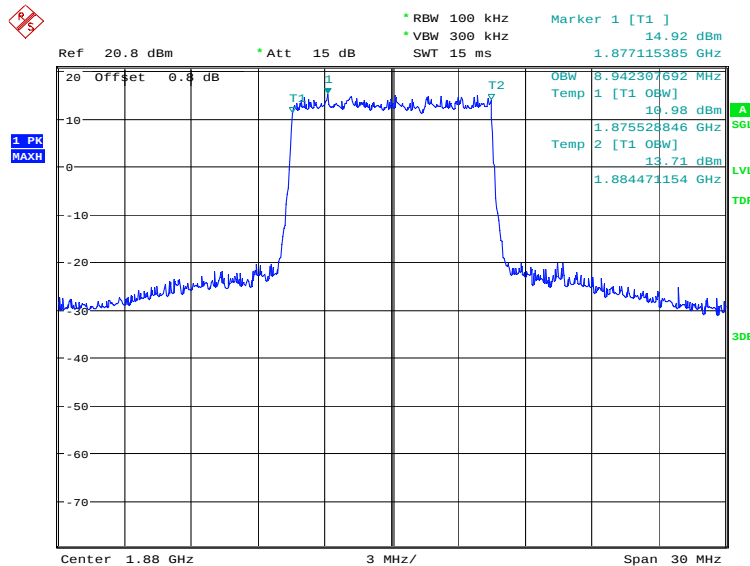
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	8990.38	8942.31

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



Date: 25.OCT.2021 09:19:03

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

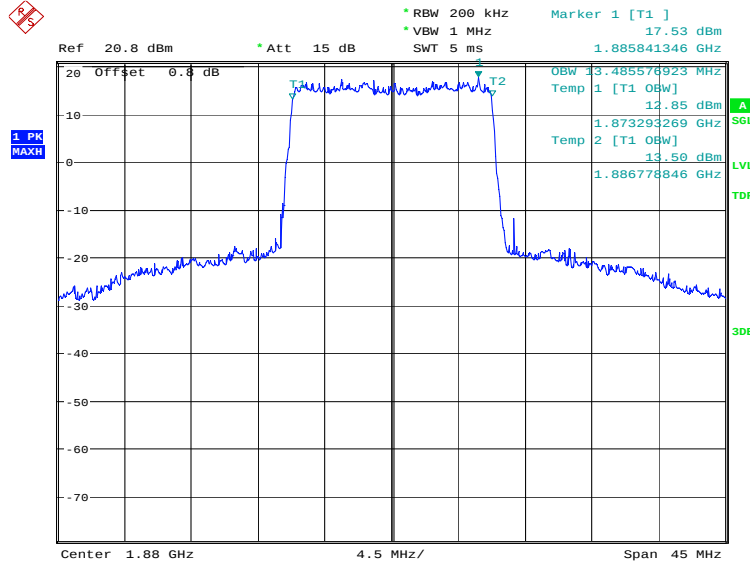


Date: 25.OCT.2021 09:19:55

LTE band 2, 15MHz (99%)

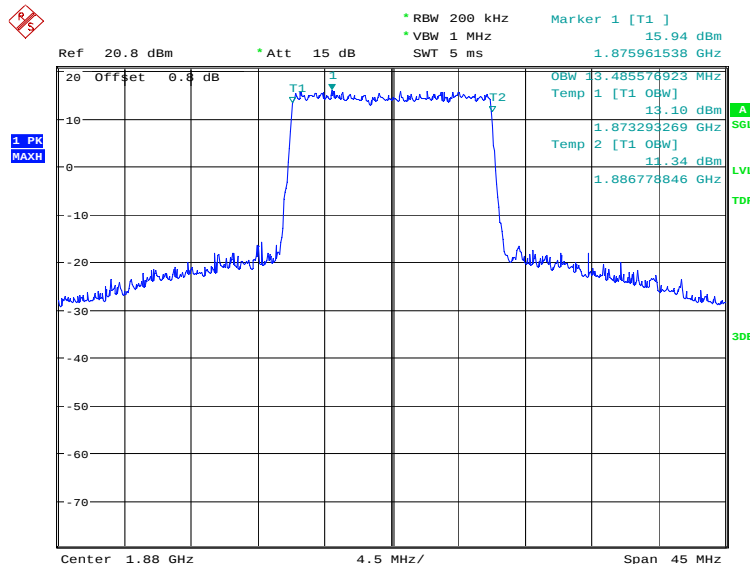
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 25.OCT.2021 09:20:50

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

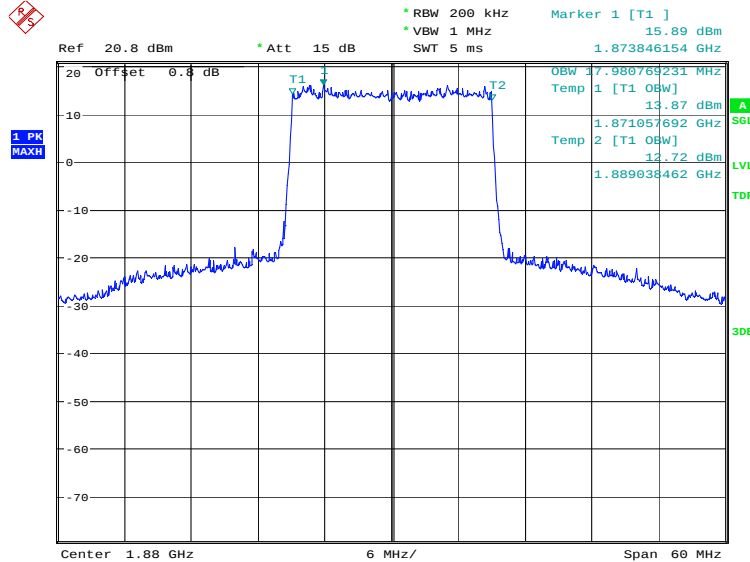


Date: 25.OCT.2021 09:21:42

LTE band 2, 20MHz (99%)

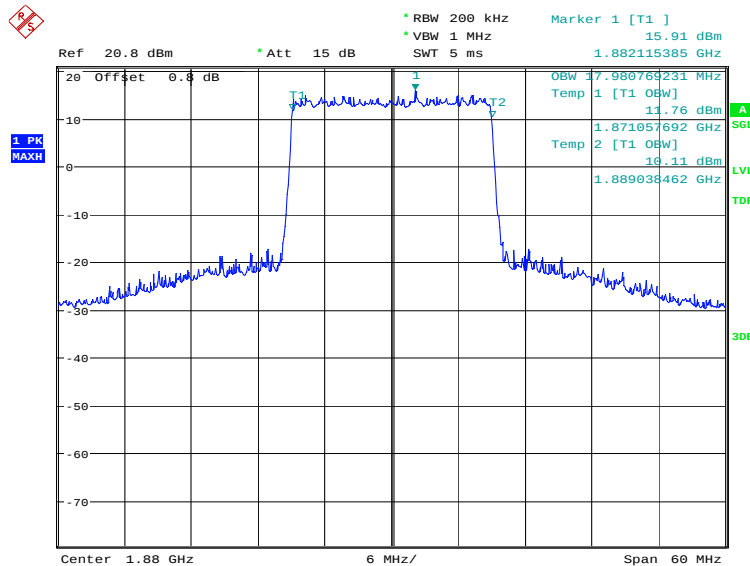
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	17980.77	17980.77

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



Date: 25.OCT.2021 09:22:36

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

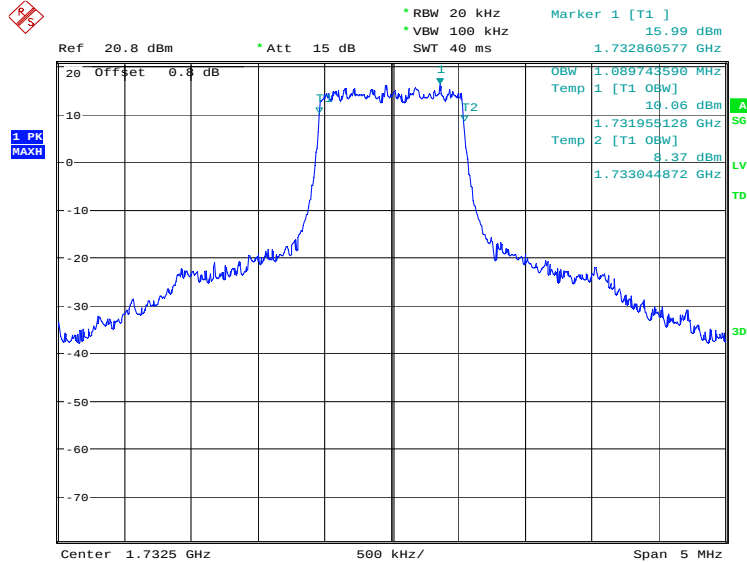


Date: 25.OCT.2021 09:23:29

LTE band 4, 1.4MHz (99%)

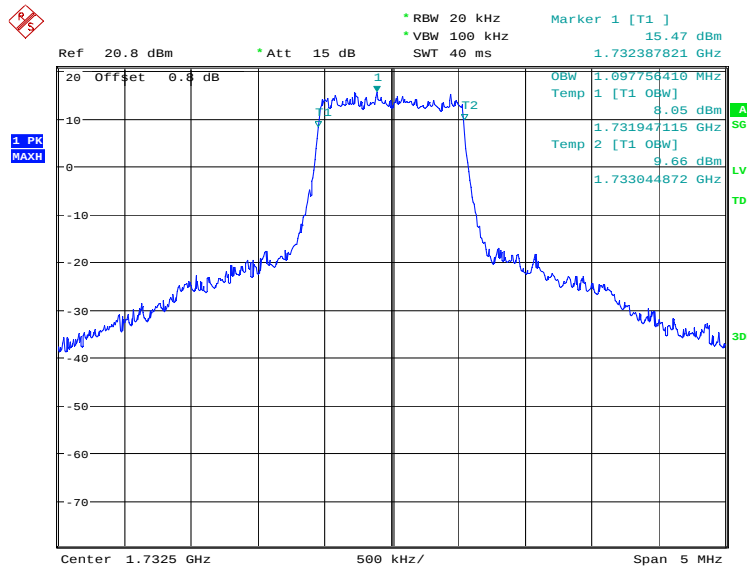
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	1089.74	1097.76

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



Date: 18.NOV.2021 16:26:28

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

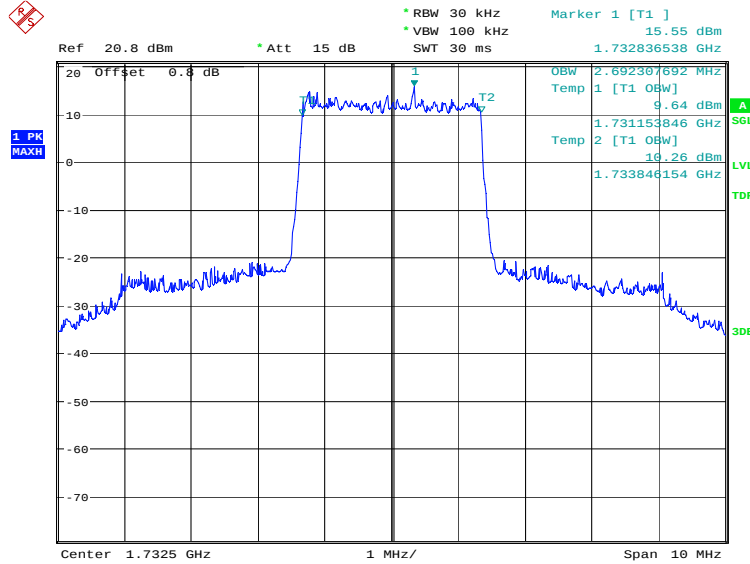


Date: 18.NOV.2021 16:27:07

LTE band 4, 3MHz (99%)

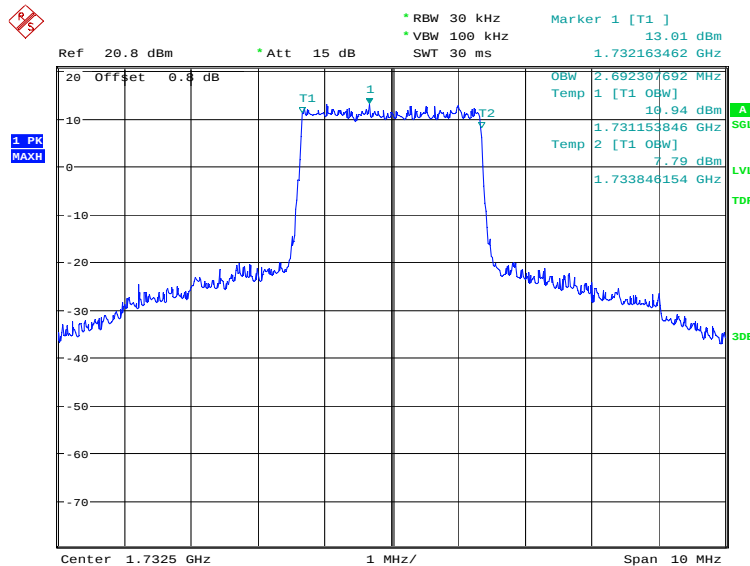
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 18.NOV.2021 16:27:48

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

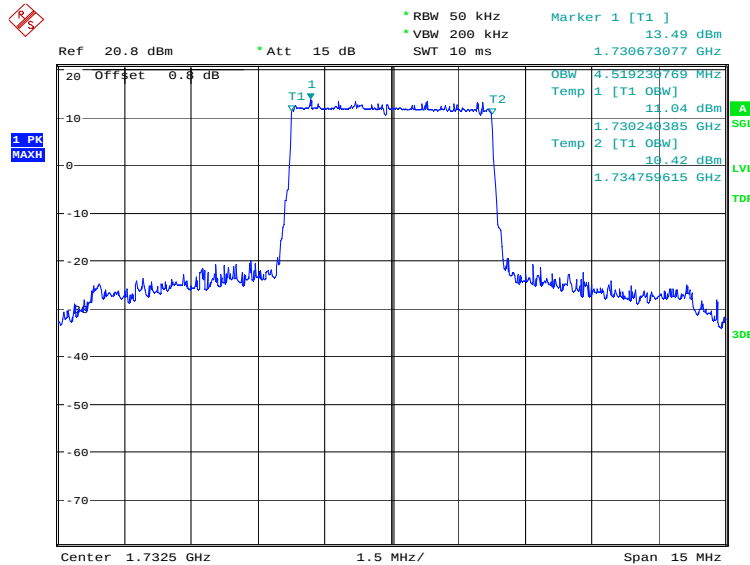


Date: 18.NOV.2021 16:28:28

LTE band 4, 5MHz (99%)

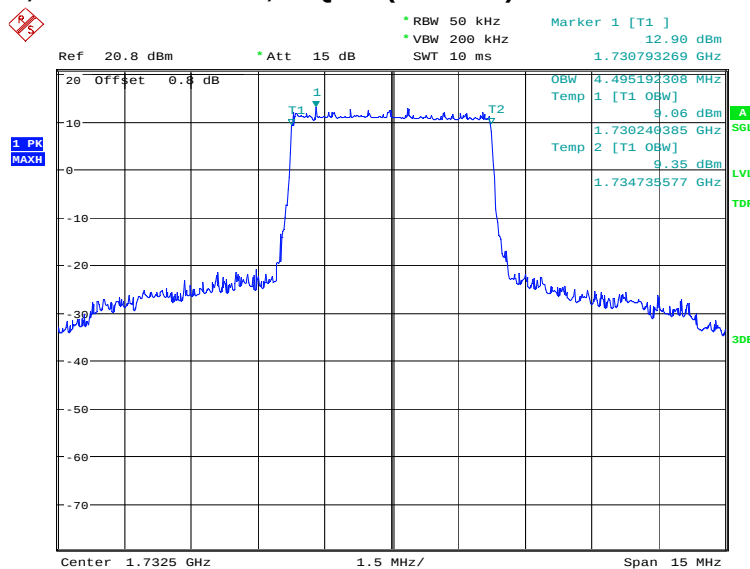
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	4519.23	4495.19

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



Date: 18.NOV.2021 16:29:09

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

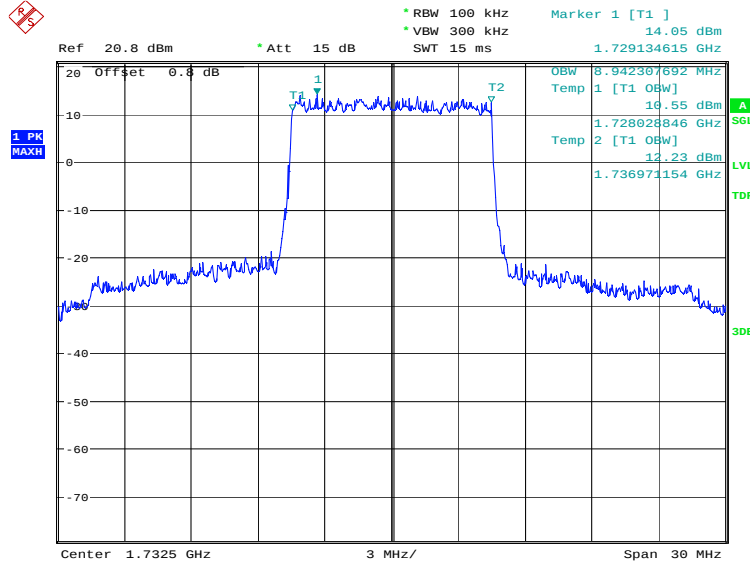


Date: 18.NOV.2021 16:29:48

LTE band 4, 10MHz (99%)

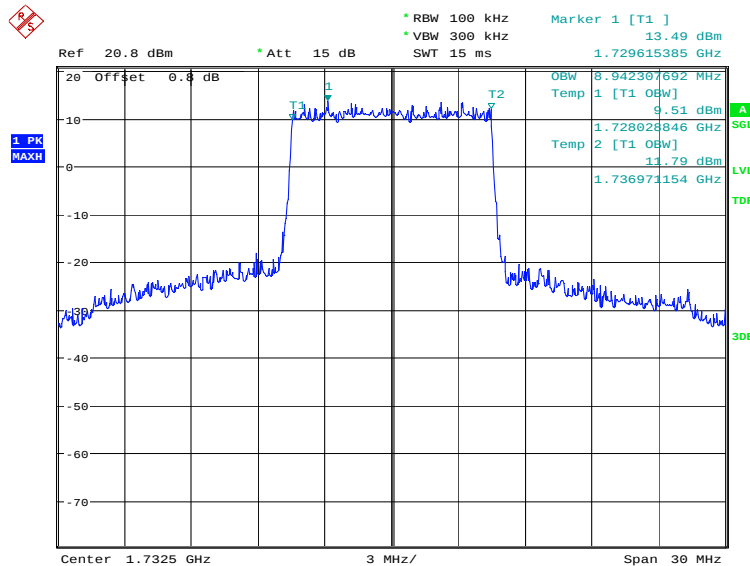
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	8942.31	8942.31

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



Date: 18.NOV.2021 16:30:29

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

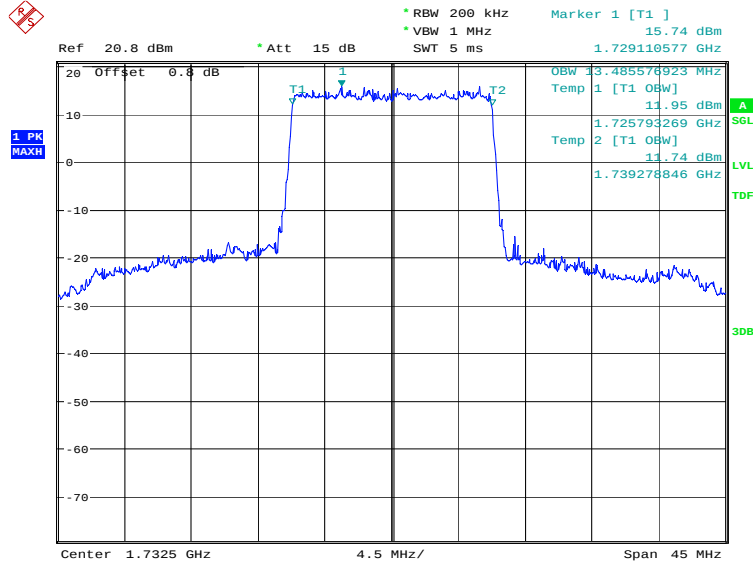


Date: 18.NOV.2021 16:31:08

LTE band 4, 15MHz (99%)

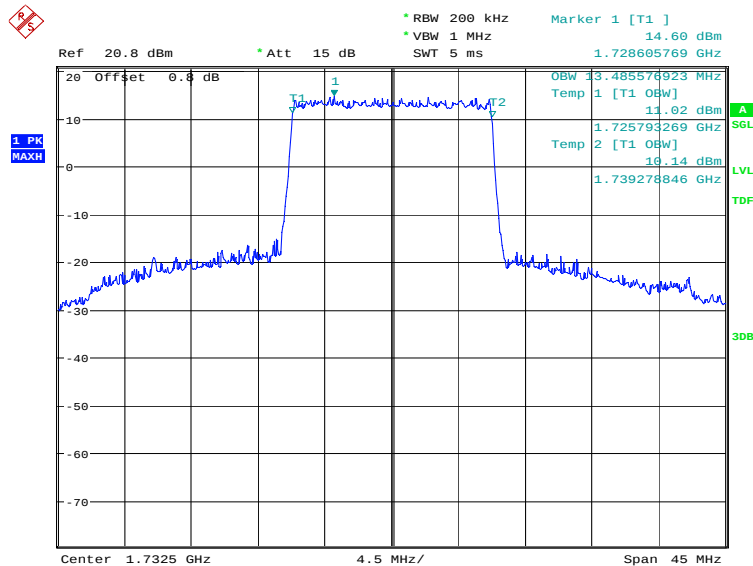
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 18.NOV.2021 16:31:49

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

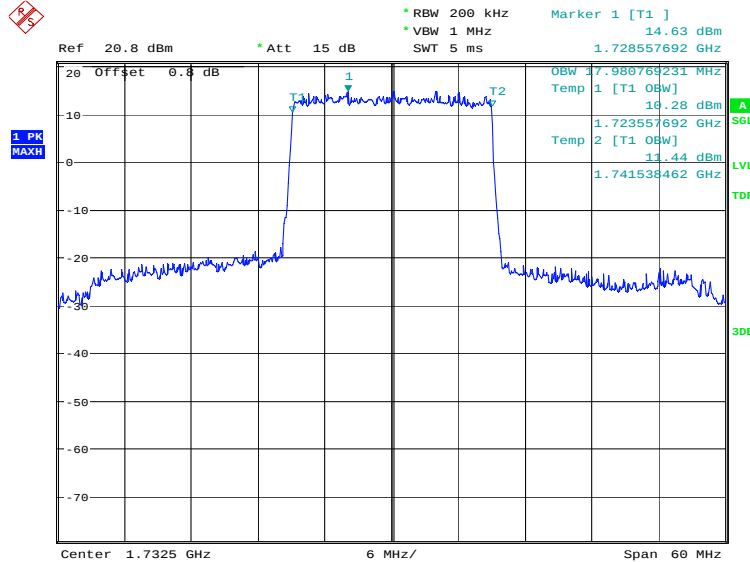


Date: 18.NOV.2021 16:32:28

LTE band 4, 20MHz (99%)

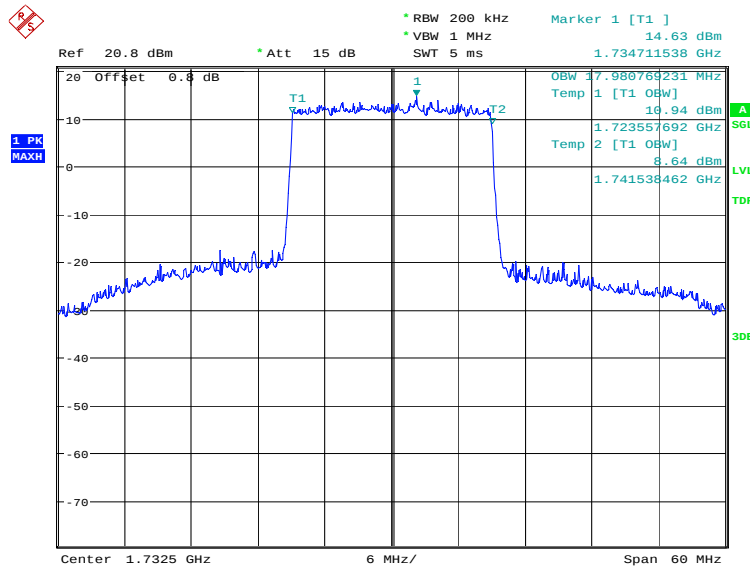
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	17980.77	17980.77

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



Date: 18.NOV.2021 16:33:09

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

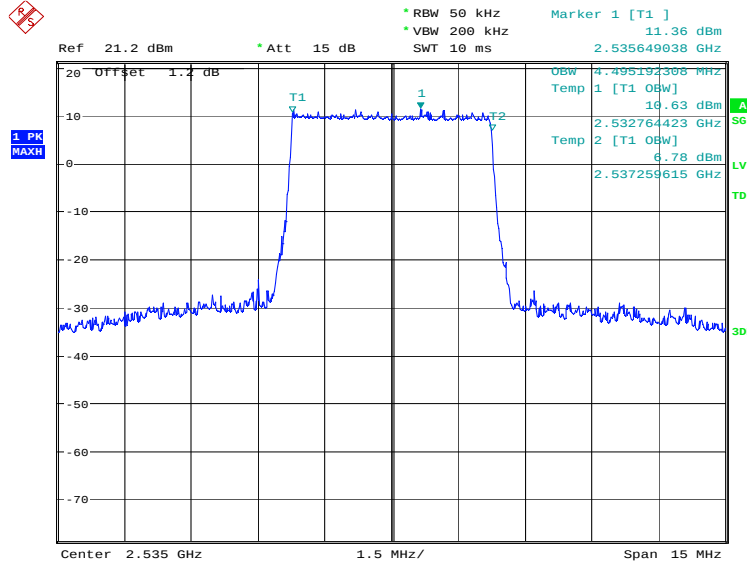


Date: 18.NOV.2021 16:33:49

LTE band 7, 5MHz (99%)

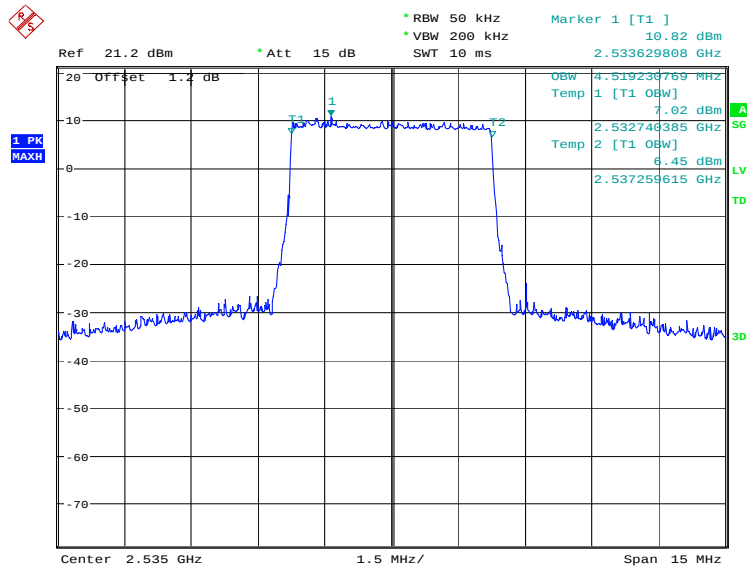
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	4495.19	4519.23

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



Date: 25.OCT.2021 14:45:56

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

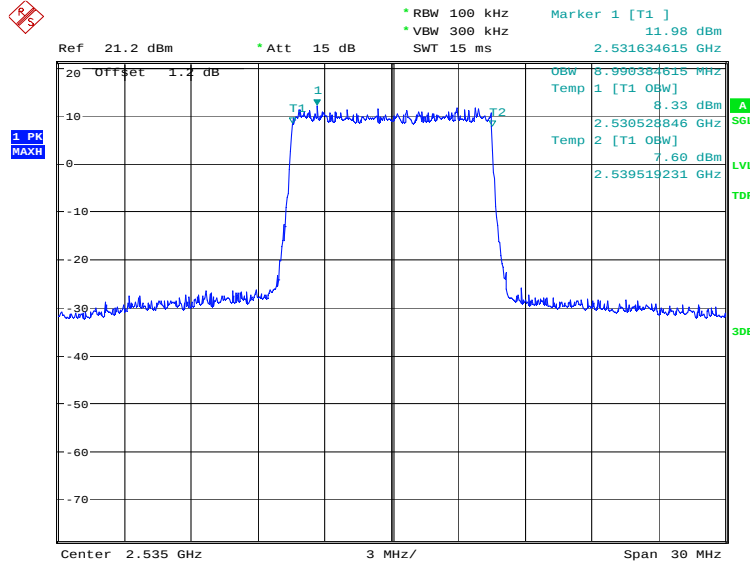


Date: 25.OCT.2021 14:46:48

LTE band 7, 10MHz (99%)

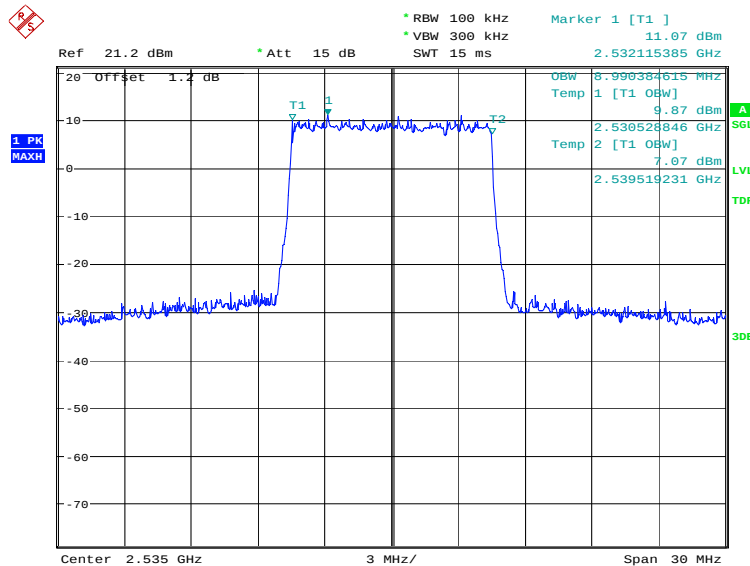
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	8990.38	8990.38

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



Date: 25.OCT.2021 14:47:43

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

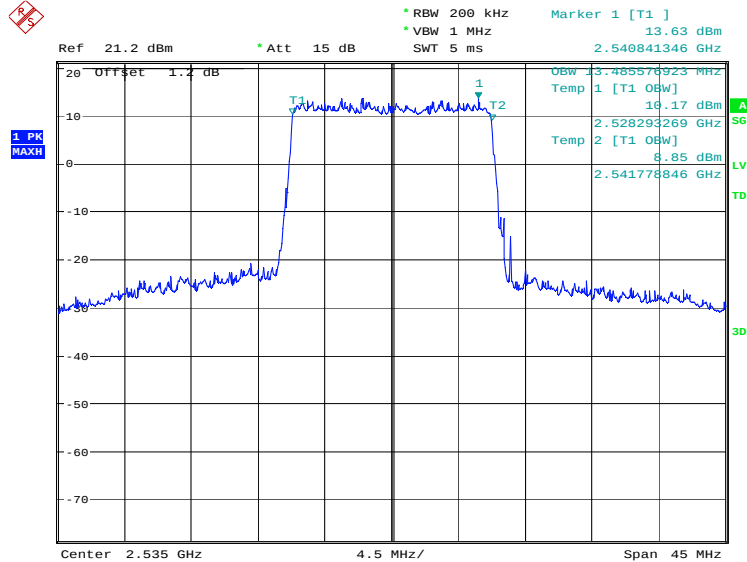


Date: 25.OCT.2021 14:48:35

LTE band 7, 15MHz (99%)

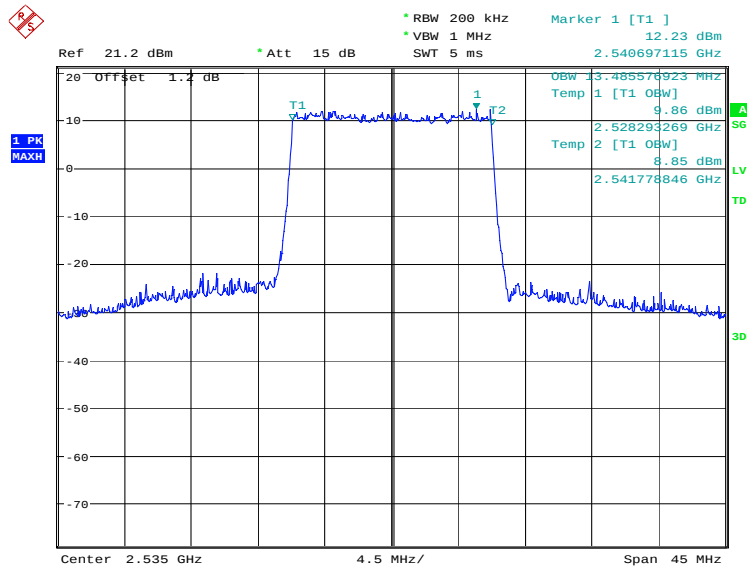
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 25.OCT.2021 14:49:30

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

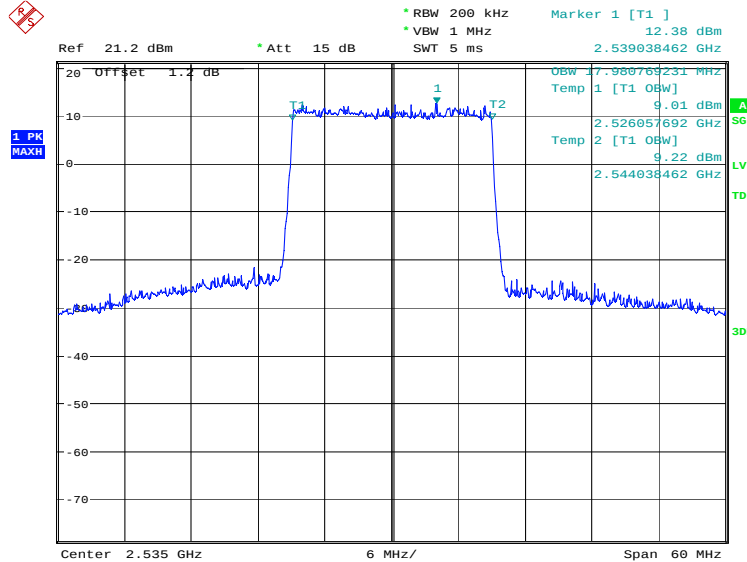


Date: 25.OCT.2021 14:50:22

LTE band 7, 20MHz (99%)

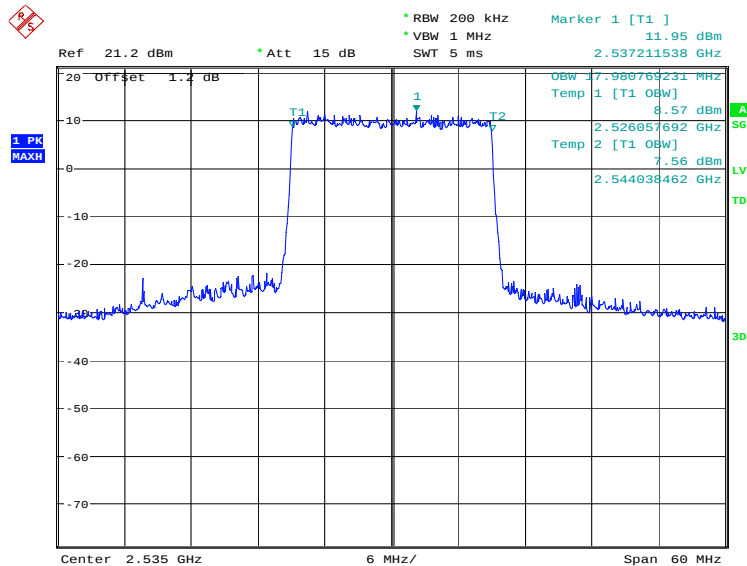
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	17980.77	17980.77

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



Date: 25.OCT.2021 14:51:17

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

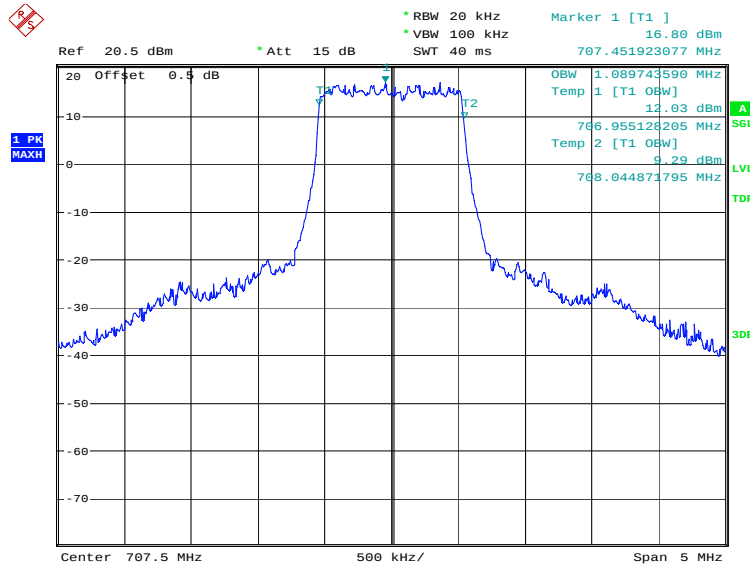


Date: 25.OCT.2021 14:52:09

LTE band 12, 1.4MHz (99%)

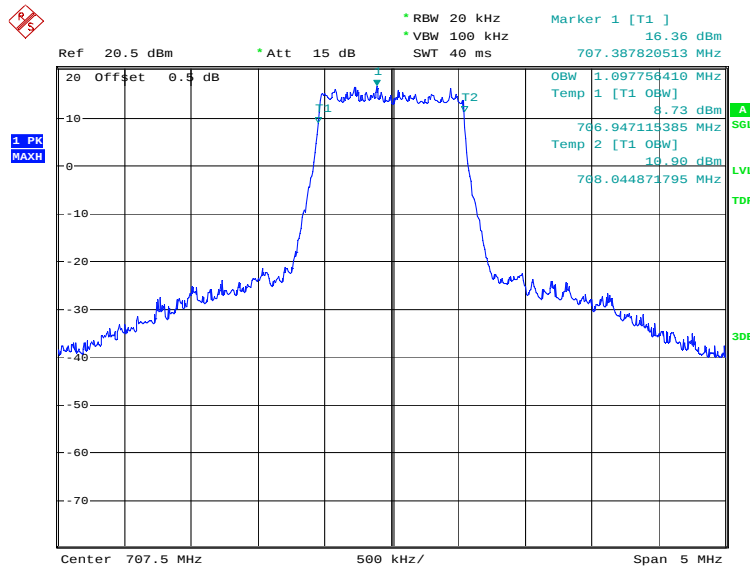
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	1089.74	1097.76

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



Date: 22.OCT.2021 17:33:53

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

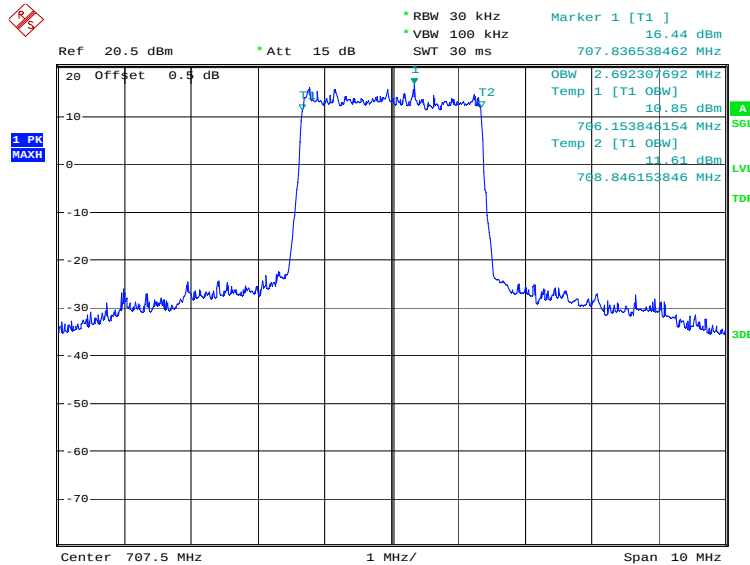


Date: 22.OCT.2021 17:34:45

LTE band 12, 3MHz (99%)

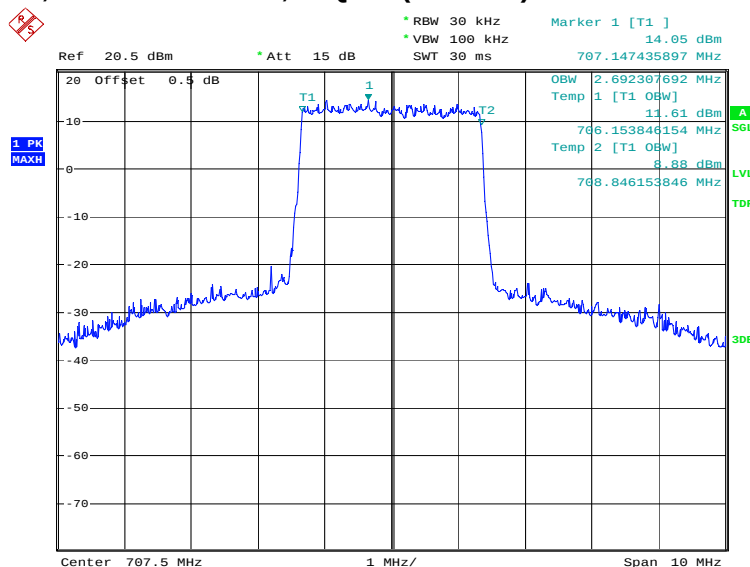
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 22.OCT.2021 17:35:39

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

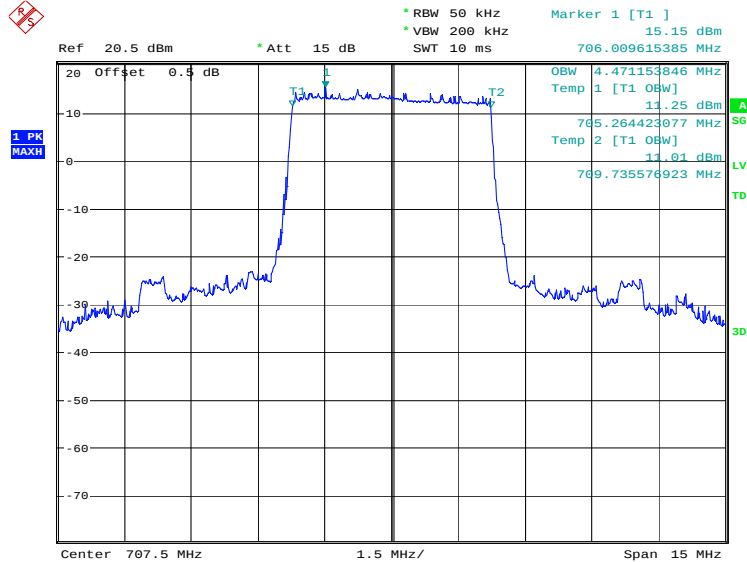


Date: 22.OCT.2021 17:36:32

LTE band 12, 5MHz (99%)

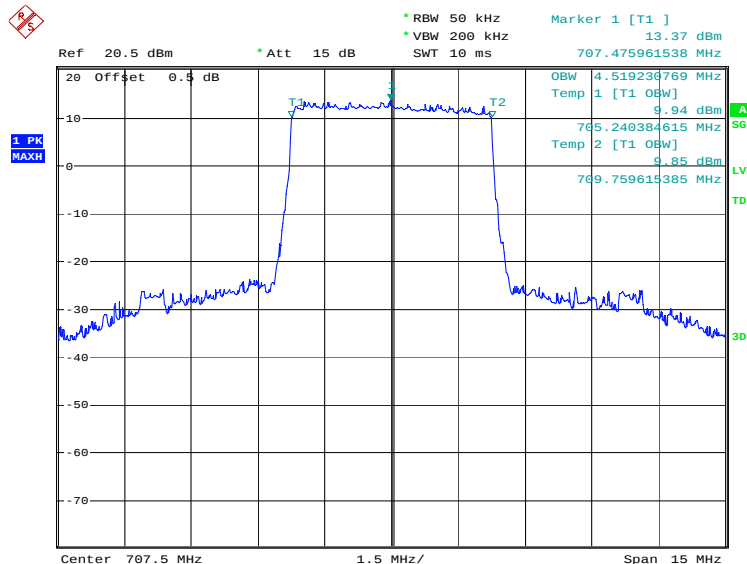
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	4471.15	4519.23

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



Date: 22.OCT.2021 17:37:26

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

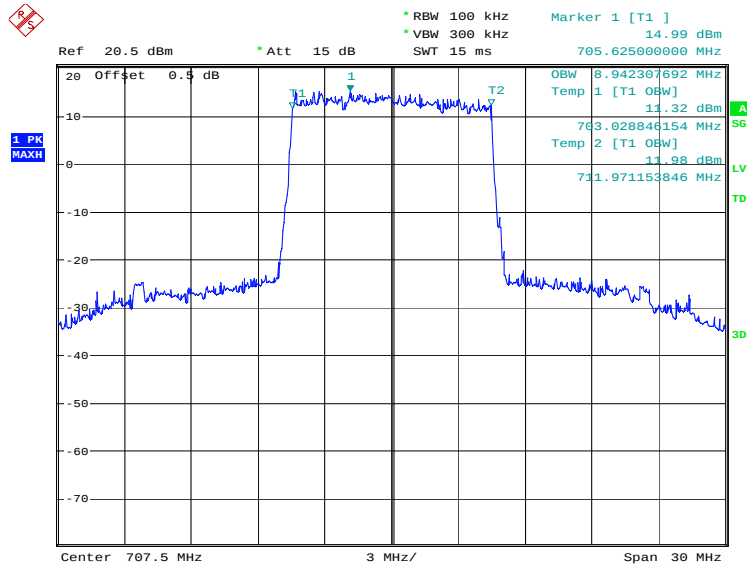


Date: 22.OCT.2021 17:38:19

LTE band 12, 10MHz (99%)

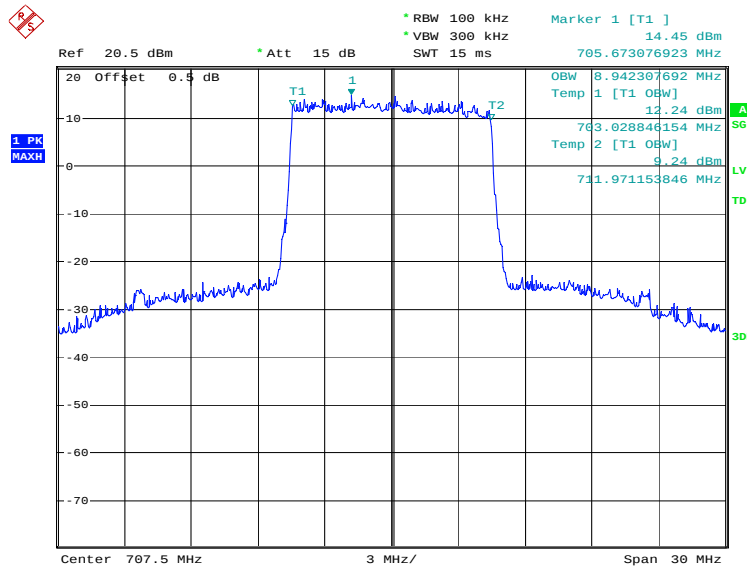
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	8942.31	8942.31

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



Date: 22.OCT.2021 17:39:13

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

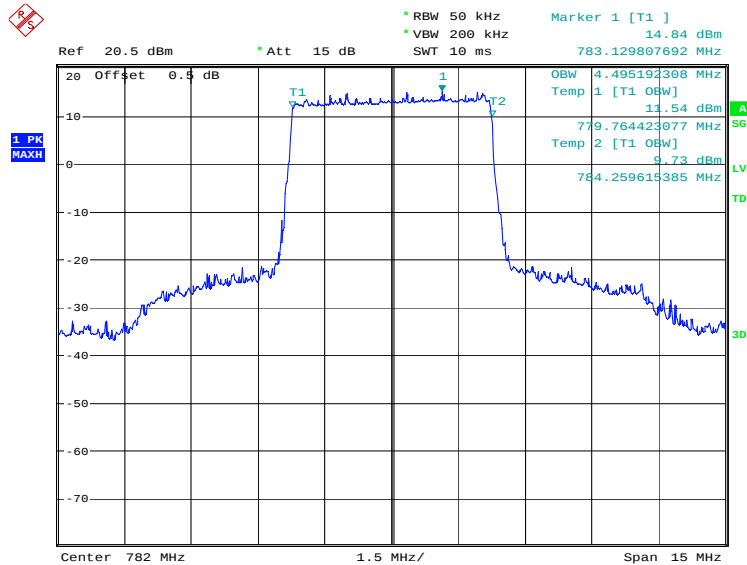


Date: 22.OCT.2021 17:40:06

LTE band 13, 5MHz (99%)

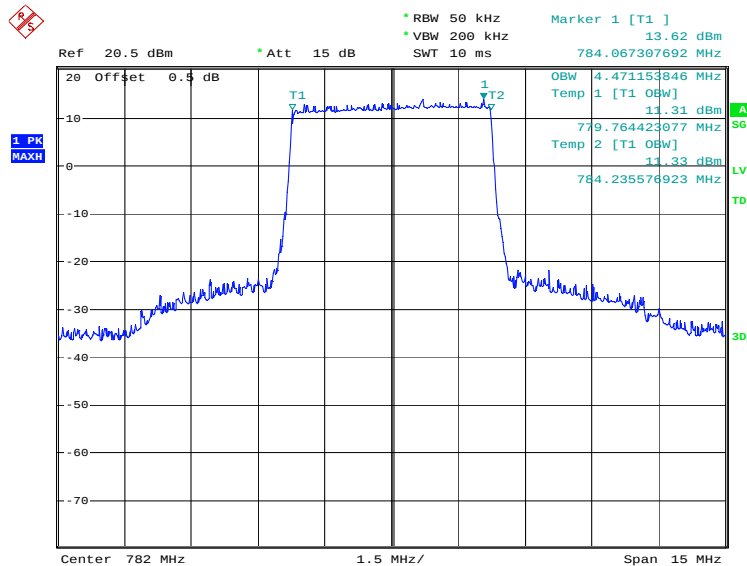
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	4495.19	4471.15

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



Date: 22.OCT.2021 17:41:01

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

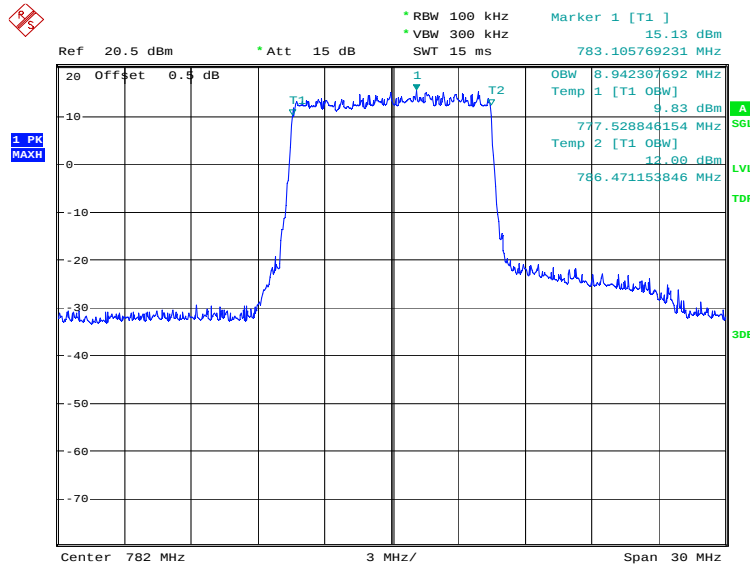


Date: 22.OCT.2021 17:41:54

LTE band 13, 10MHz (99%)

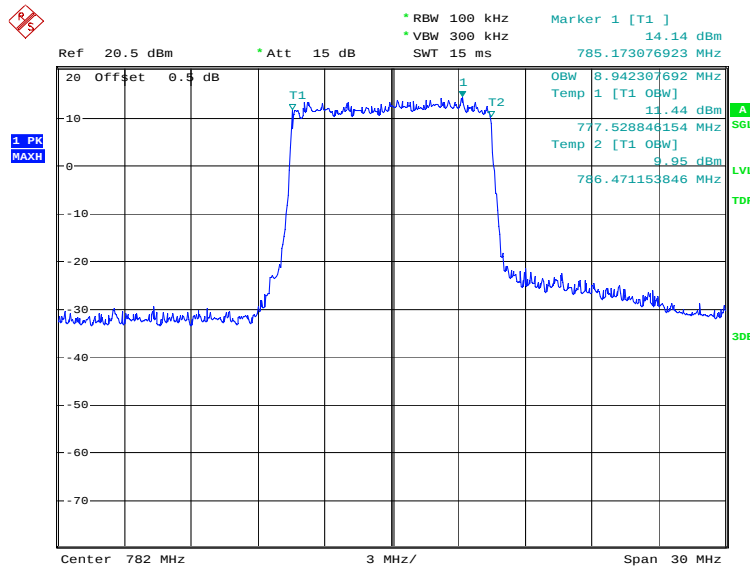
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 22.OCT.2021 17:42:48

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

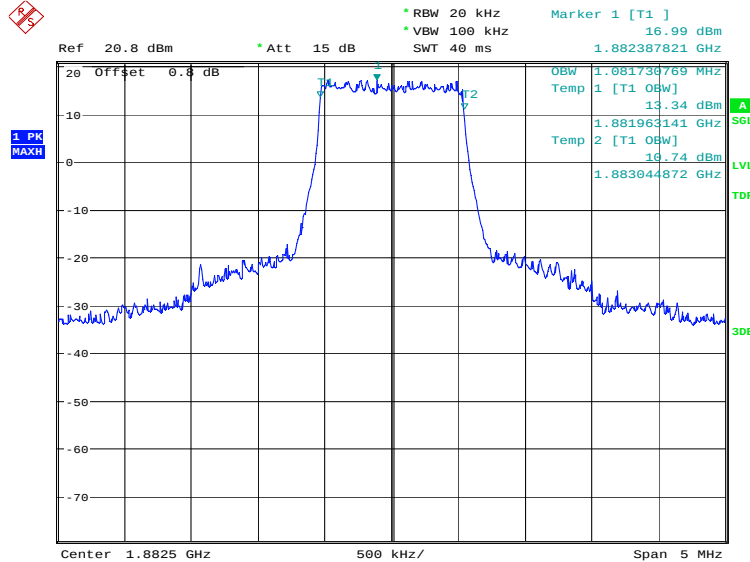


Date: 22.OCT.2021 17:43:41

LTE band 25, 1.4MHz (99%)

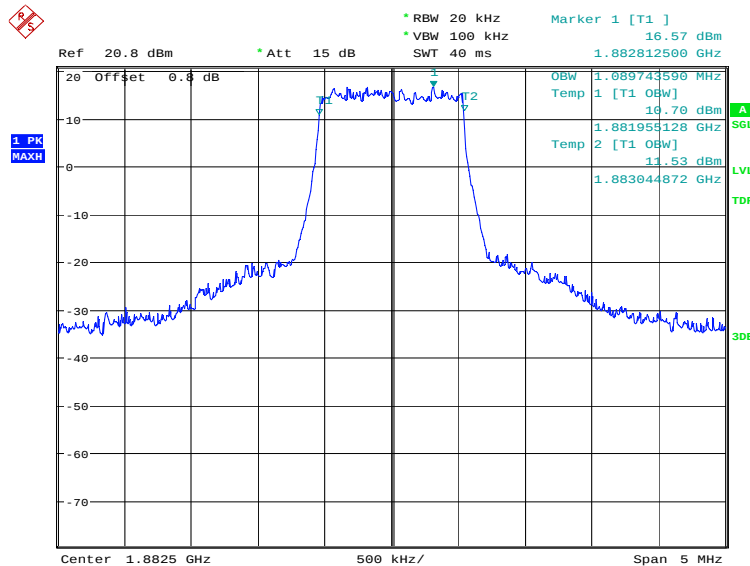
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	1081.73	1089.74

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



Date: 25.OCT.2021 09:24:25

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

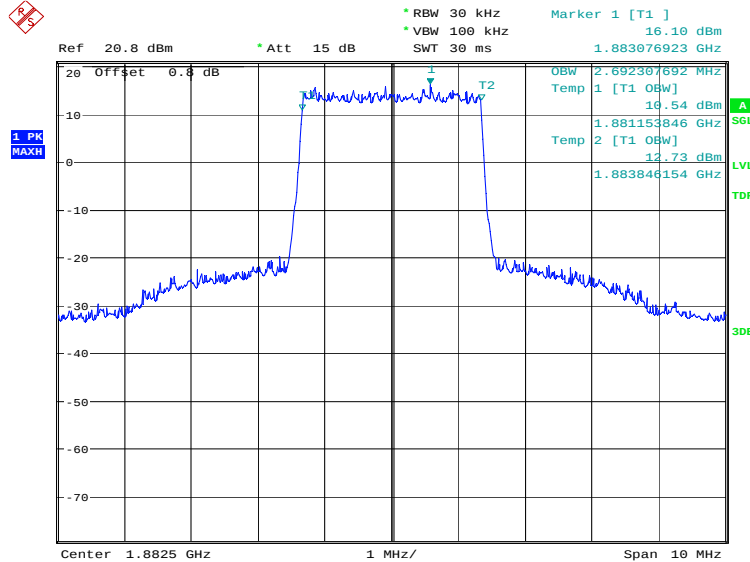


Date: 25.OCT.2021 09:25:17

LTE band 25, 3MHz (99%)

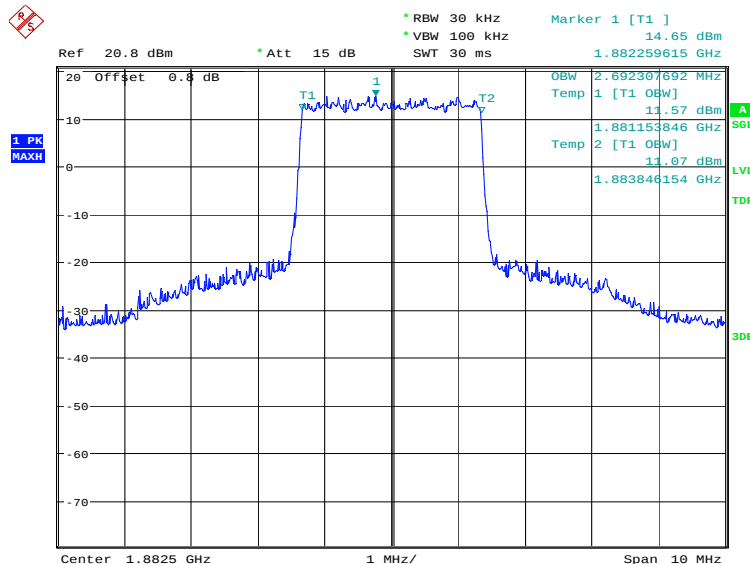
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 25.OCT.2021 09:26:12

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

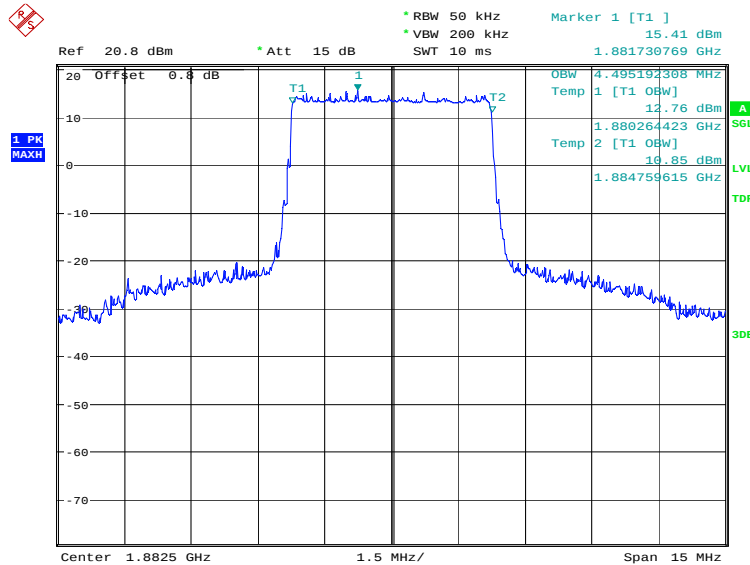


Date: 25.OCT.2021 09:27:05

LTE band 25, 5MHz (99%)

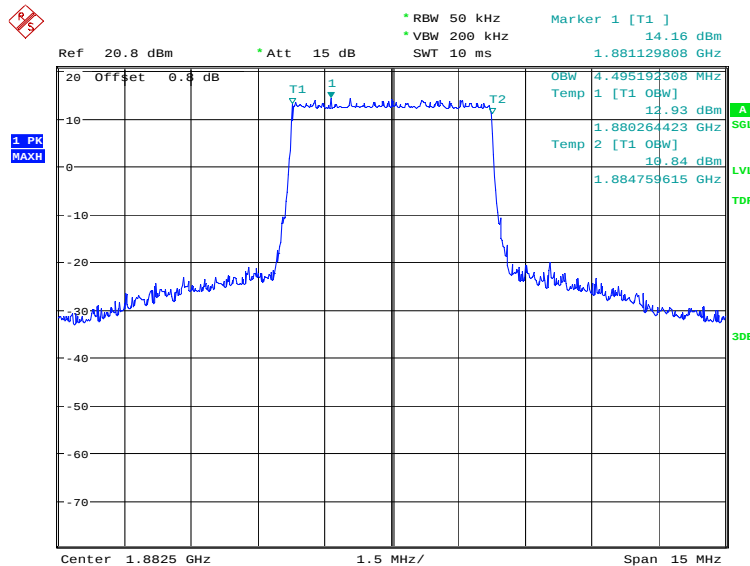
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	4495.19	4495.19

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



Date: 25.OCT.2021 09:27:59

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

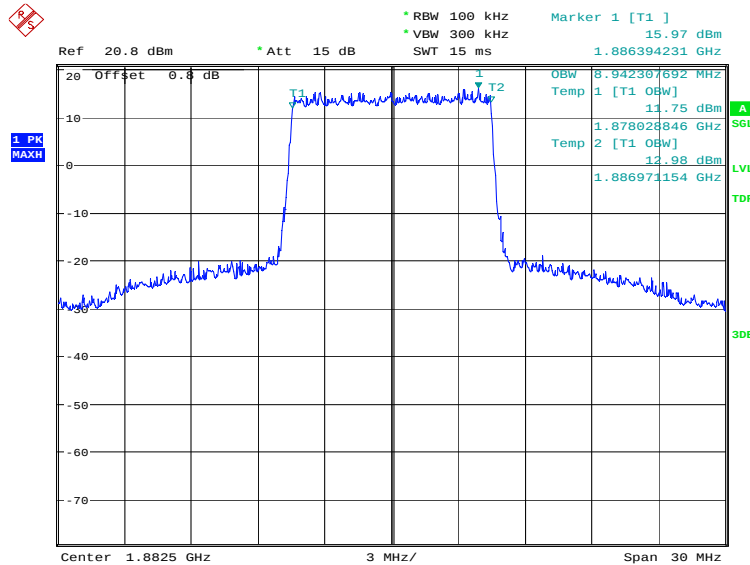


Date: 25.OCT.2021 09:28:52

LTE band 25, 10MHz (99%)

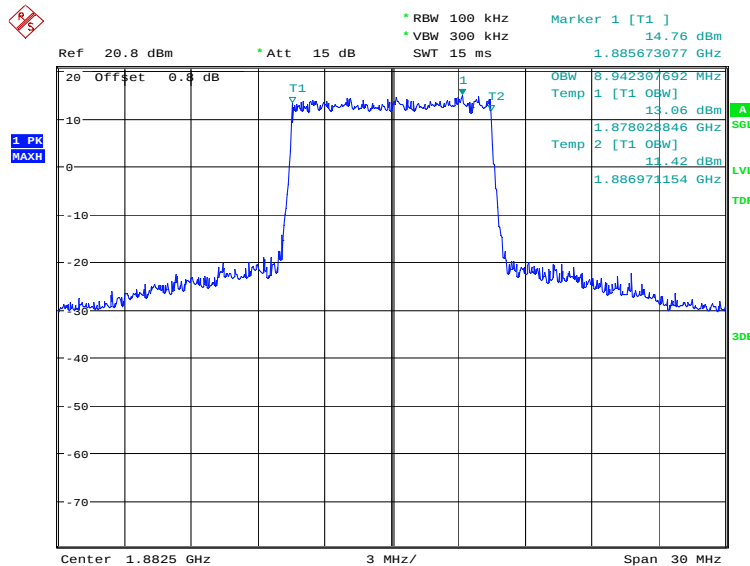
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	8942.31	8942.31

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



Date: 25.OCT.2021 09:29:46

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

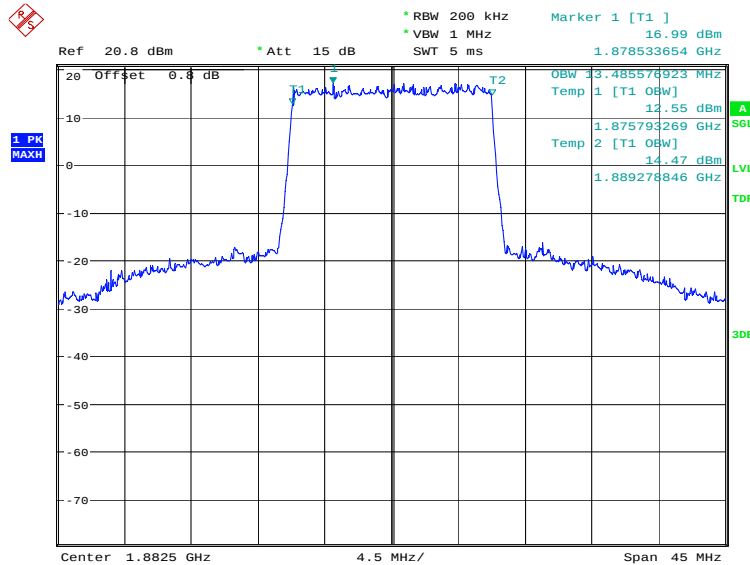


Date: 25.OCT.2021 09:30:39

LTE band 25, 15MHz (99%)

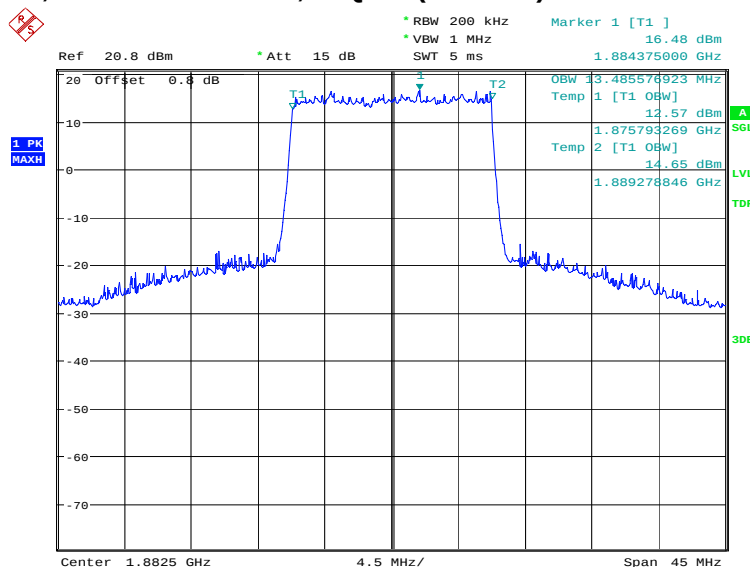
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 25.OCT.2021 09:31:34

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

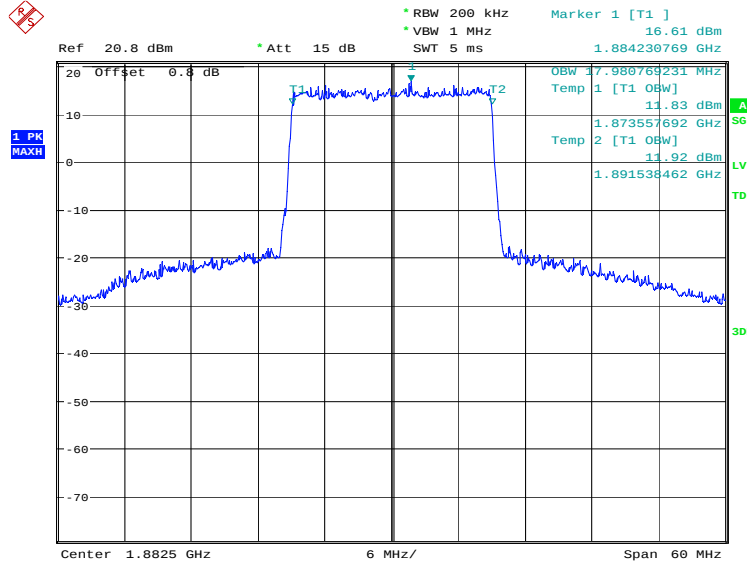


Date: 25.OCT.2021 09:32:26

LTE band 25, 20MHz (99%)

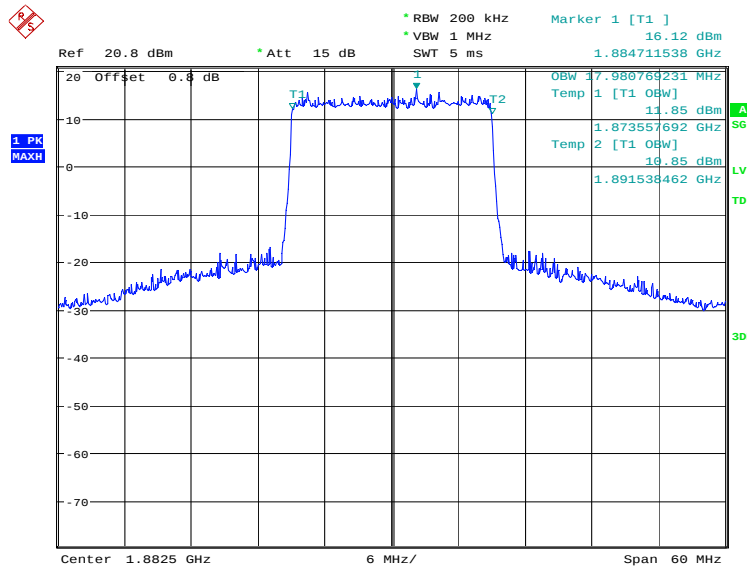
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	17980.77	17980.77

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



Date: 25.OCT.2021 09:33:21

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

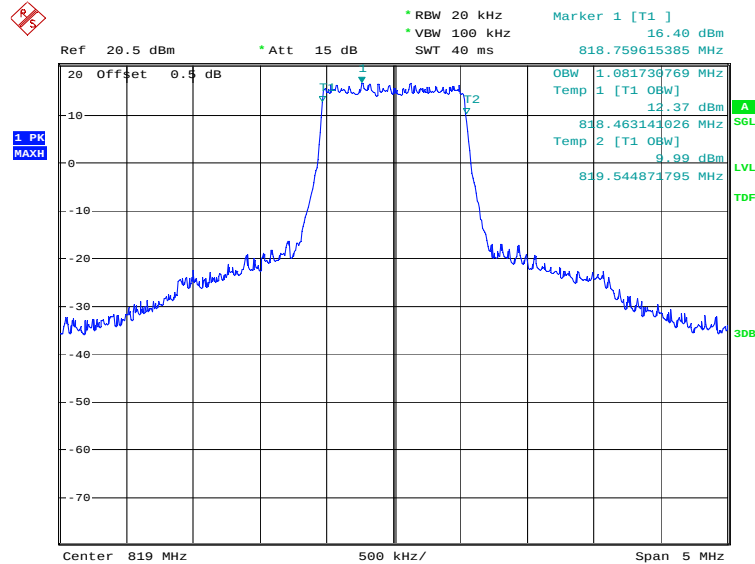


Date: 25.OCT.2021 09:34:13

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

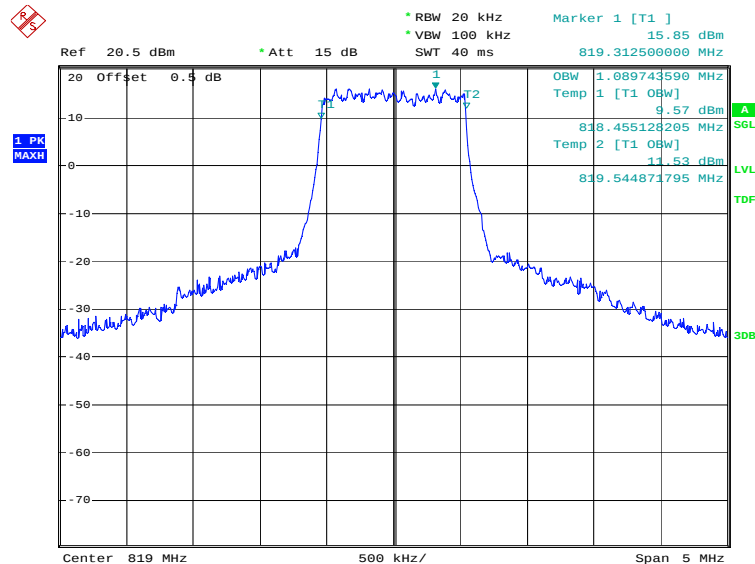
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	1081.73	1089.74

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



Date: 22.OCT.2021 17:54:12

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

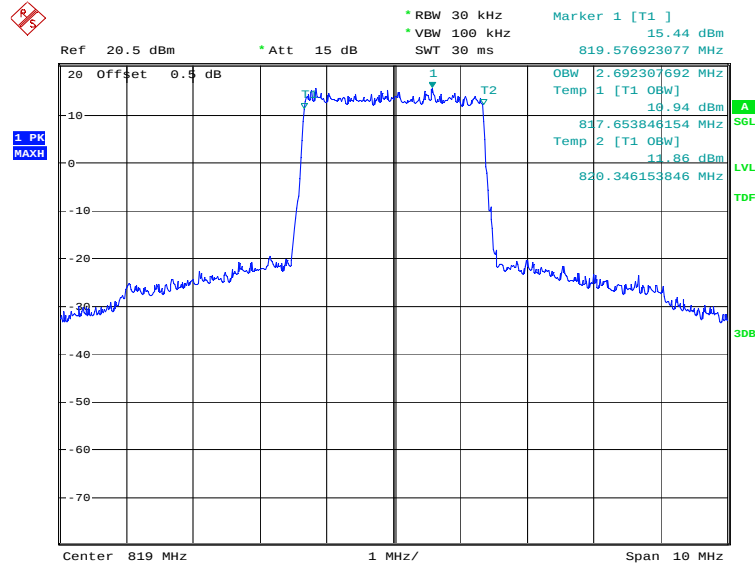


Date: 22.OCT.2021 17:55:05

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

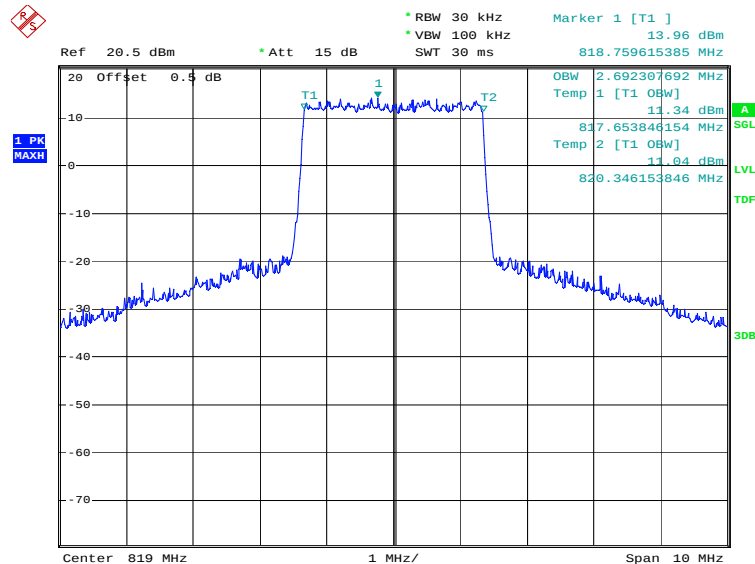
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 22.OCT.2021 17:55:59

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

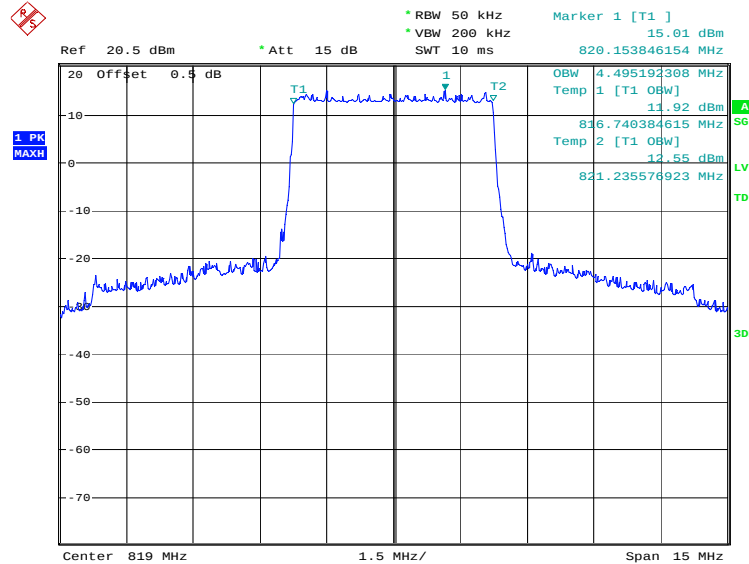


Date: 22.OCT.2021 17:56:52

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

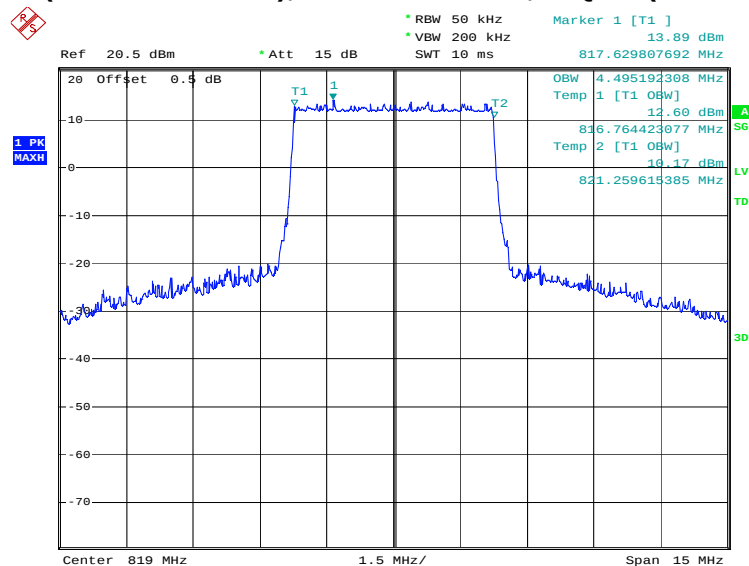
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 22.OCT.2021 17:57:46

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

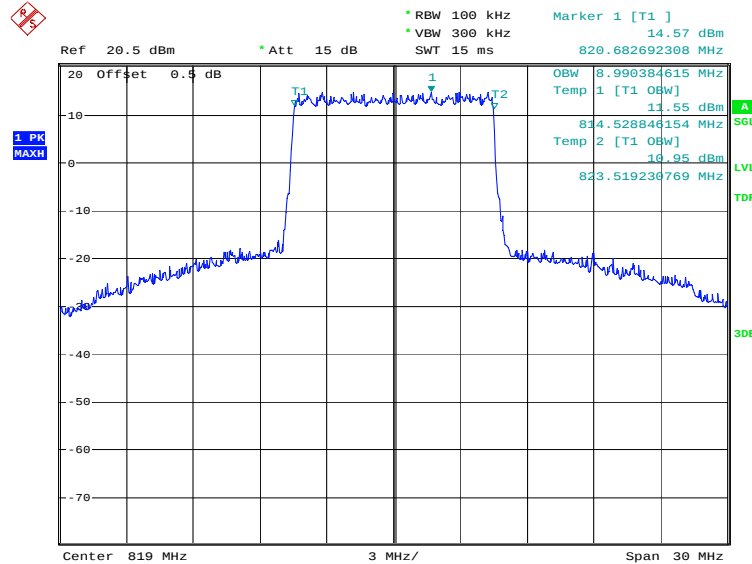


Date: 22.OCT.2021 17:58:39

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

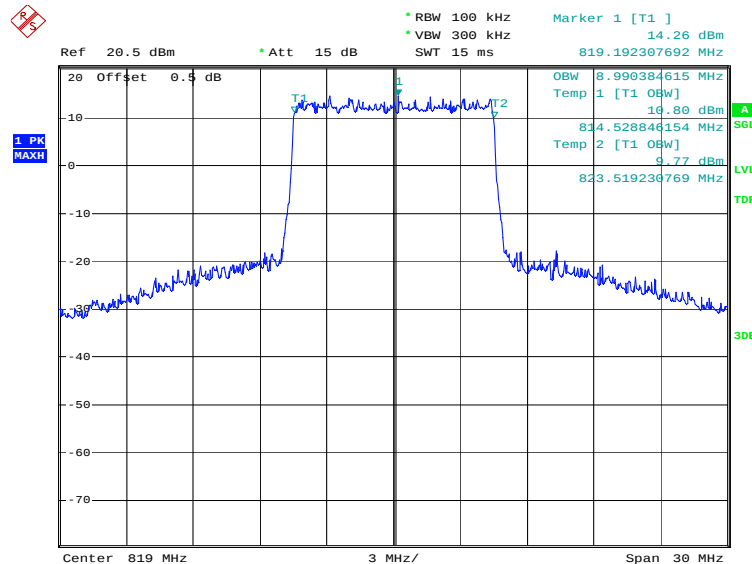
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	8990.38	8990.38

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



Date: 22.OCT.2021 17:59:33

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

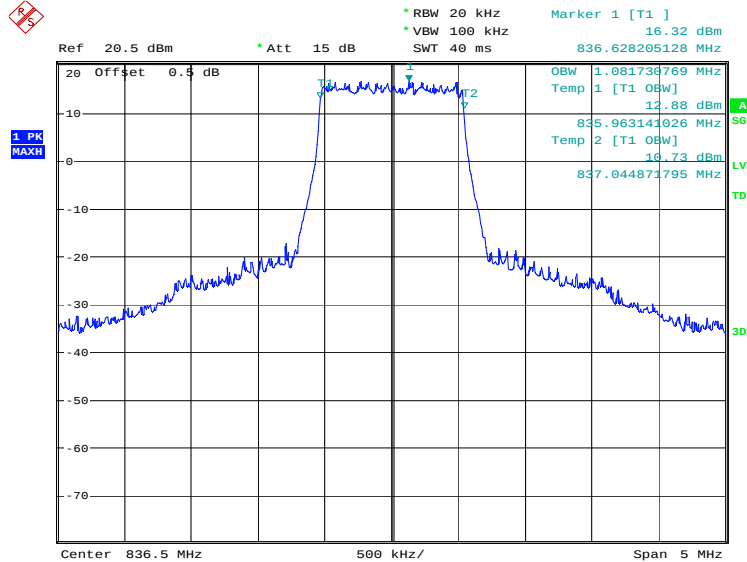


Date: 22.OCT.2021 18:00:26

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

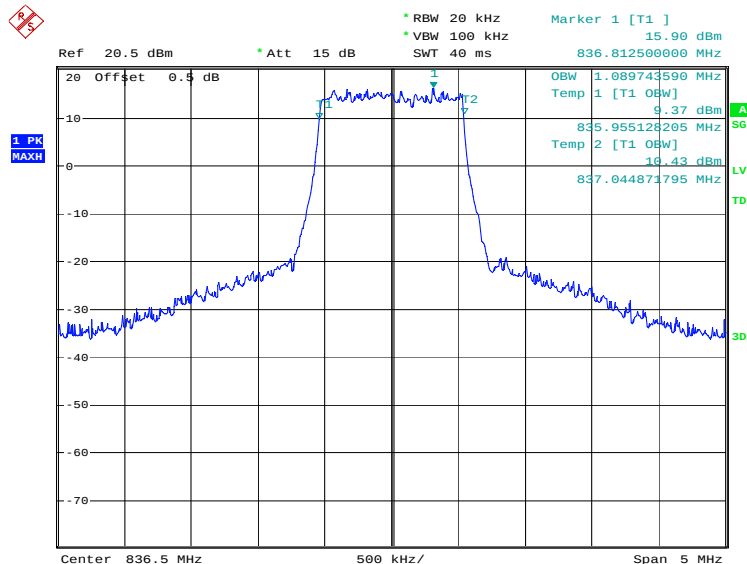
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1081.73	1089.74

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



Date: 22.OCT.2021 17:44:37

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

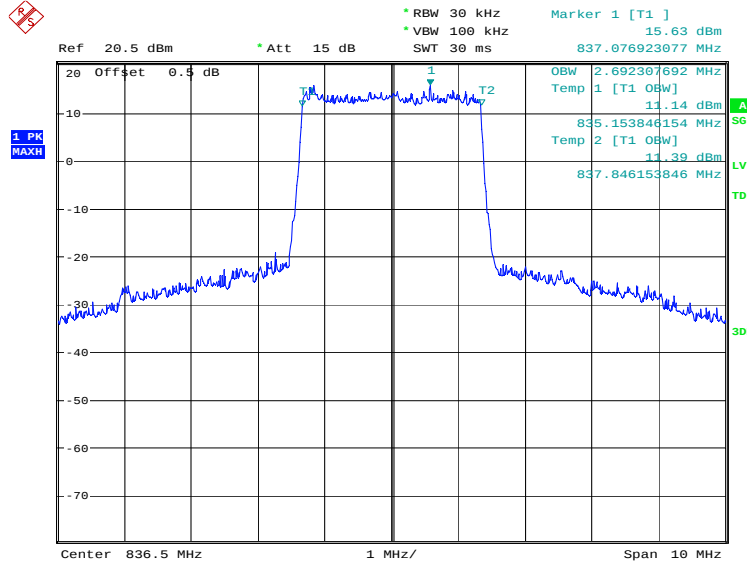


Date: 22.OCT.2021 17:45:29

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

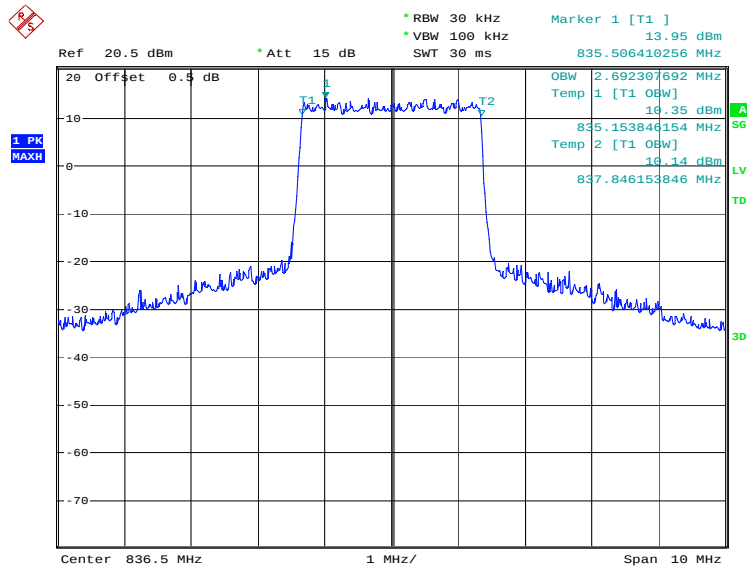
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 22.OCT.2021 17:46:24

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

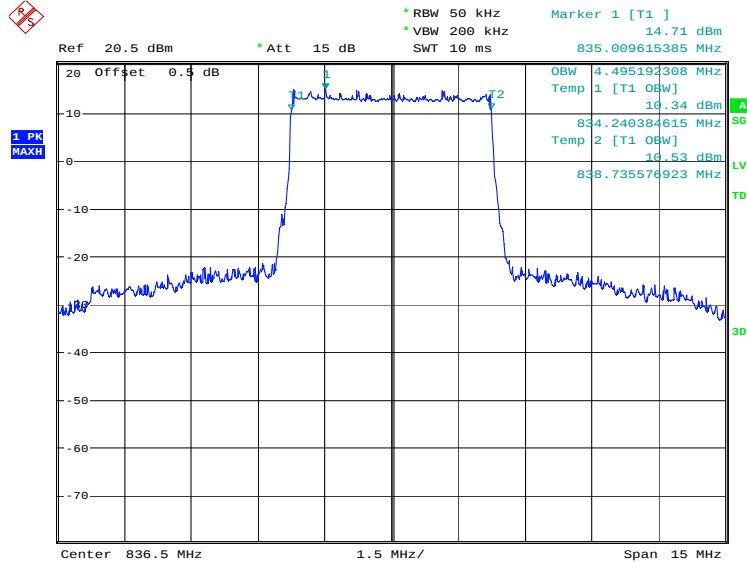


Date: 22.OCT.2021 17:47:16

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

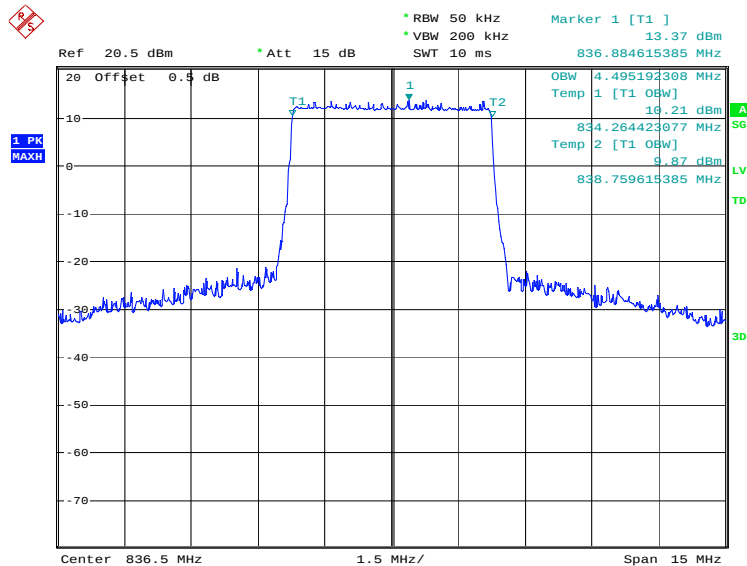
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	4495.19	4495.19

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



Date: 22.OCT.2021 17:48:11

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

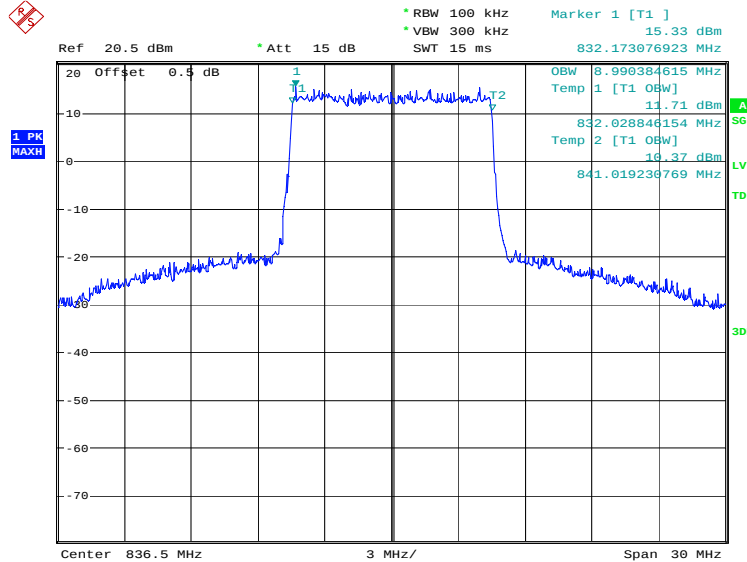


Date: 22.OCT.2021 17:49:03

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

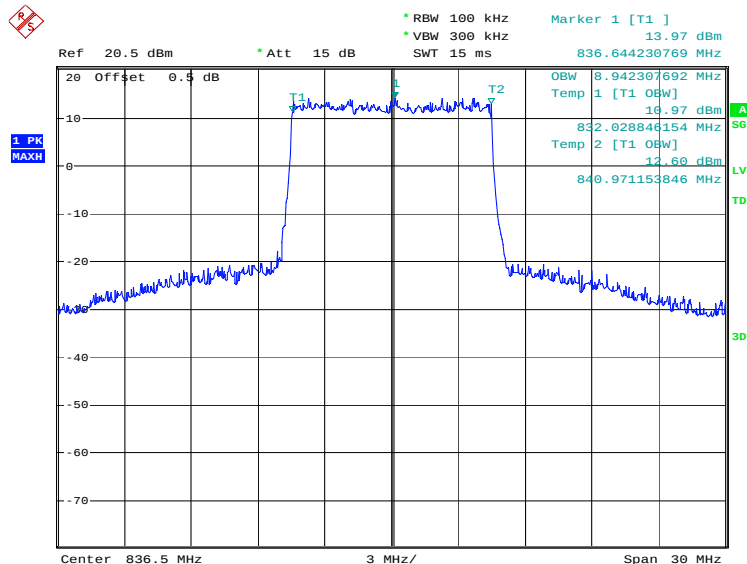
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8990.38	8942.31

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



Date: 22.OCT.2021 17:49:57

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

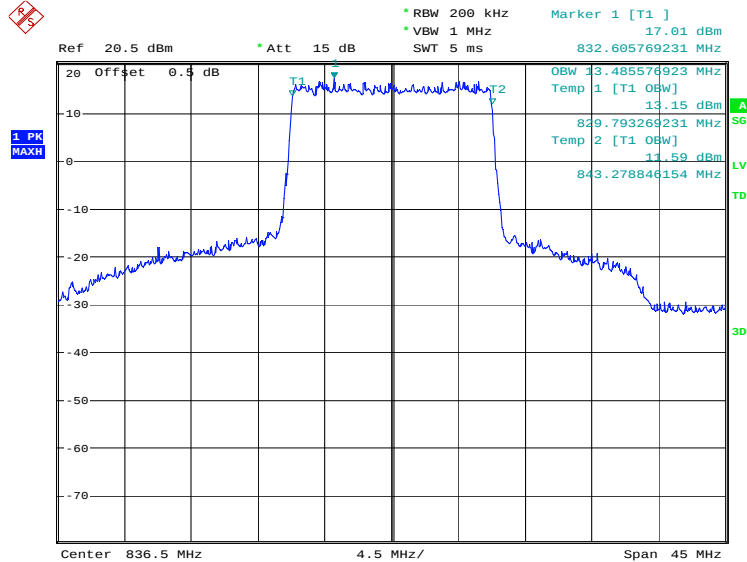


Date: 22.OCT.2021 17:50:50

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

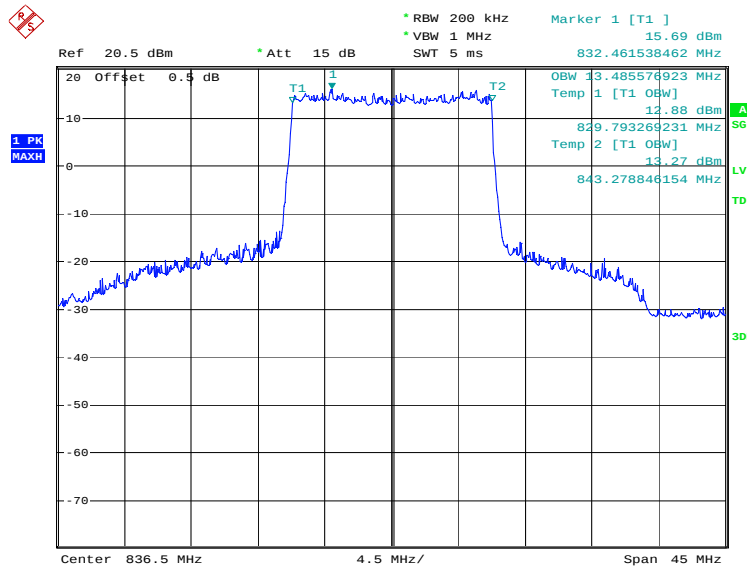
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 22.OCT.2021 17:51:44

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

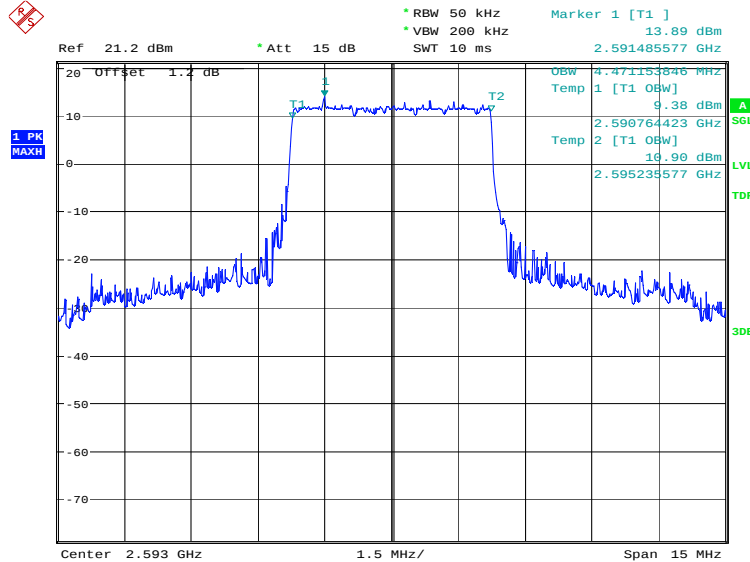


Date: 22.OCT.2021 17:52:37

LTE band 41, 5MHz (99%)

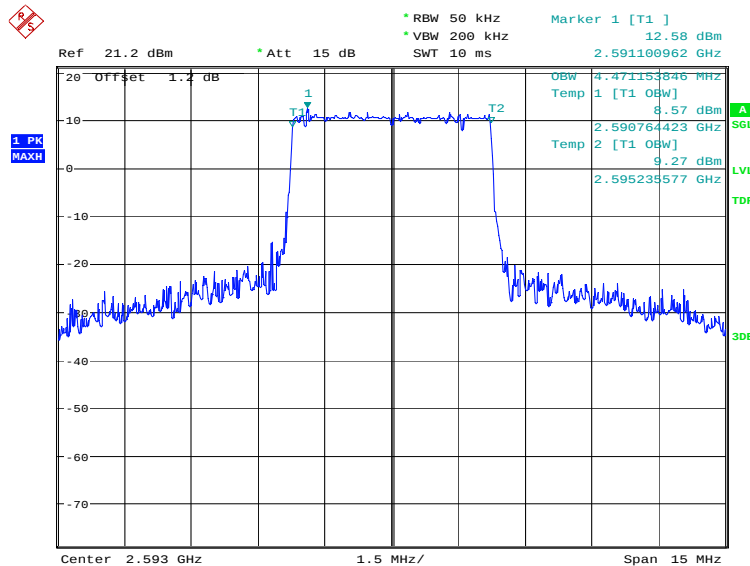
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	4471.15	4471.15

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



Date: 25.OCT.2021 14:53:48

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

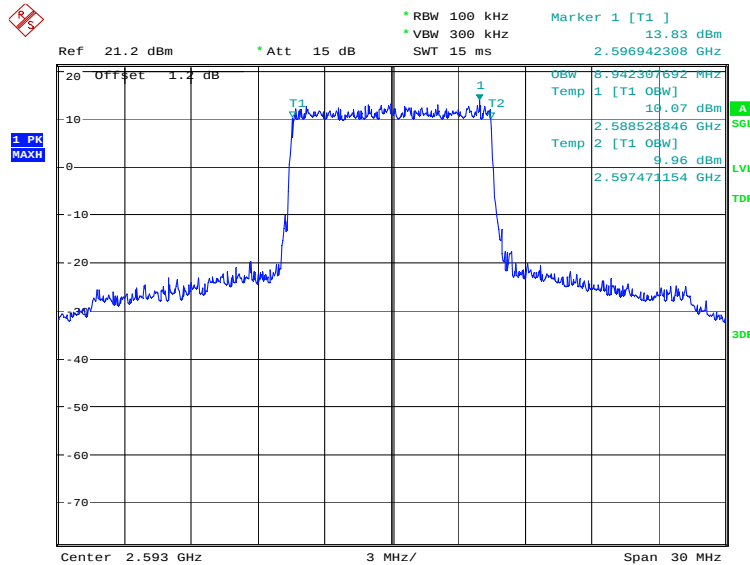


Date: 25.OCT.2021 14:54:41

LTE band 41, 10MHz (99%)

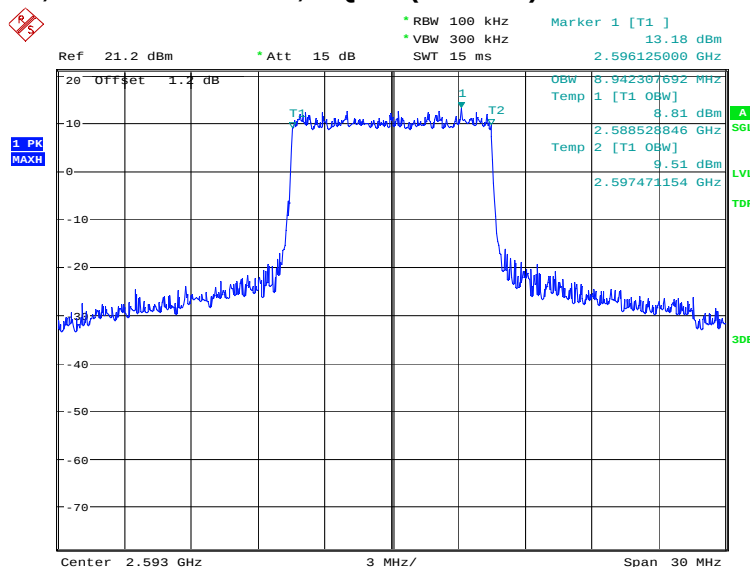
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 25.OCT.2021 14:55:36

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

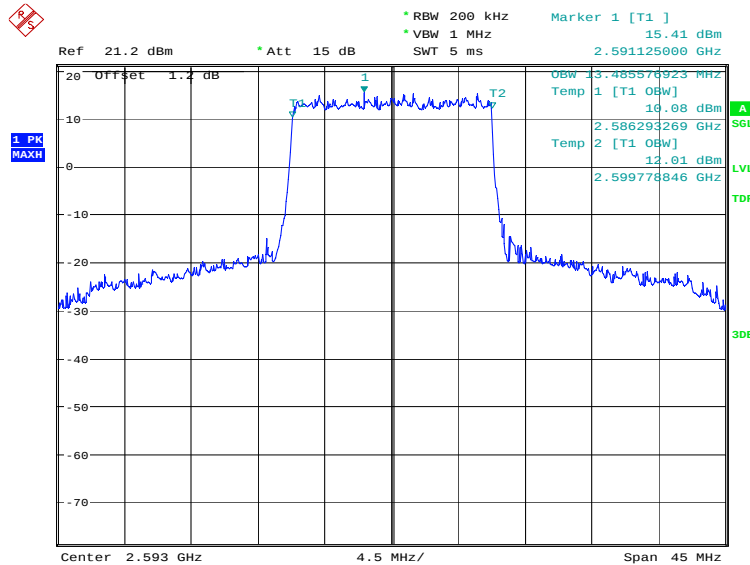


Date: 25.OCT.2021 14:56:28

LTE band 41, 15MHz (99%)

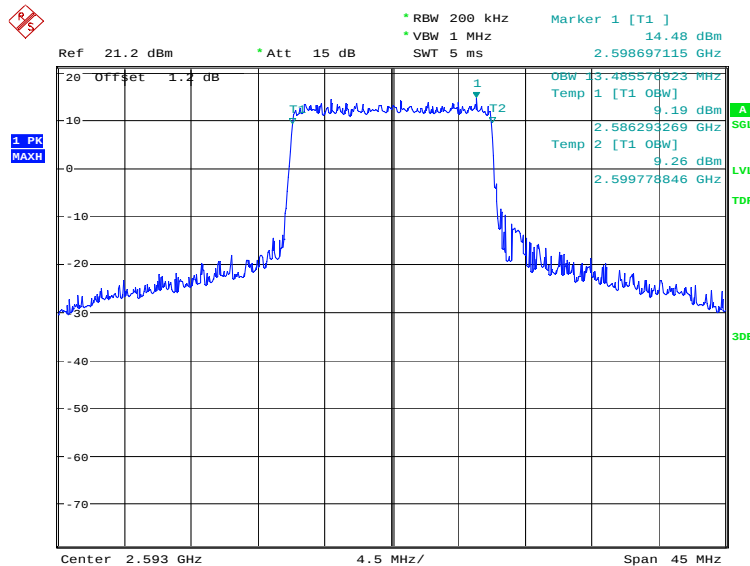
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 25.OCT.2021 14:57:23

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

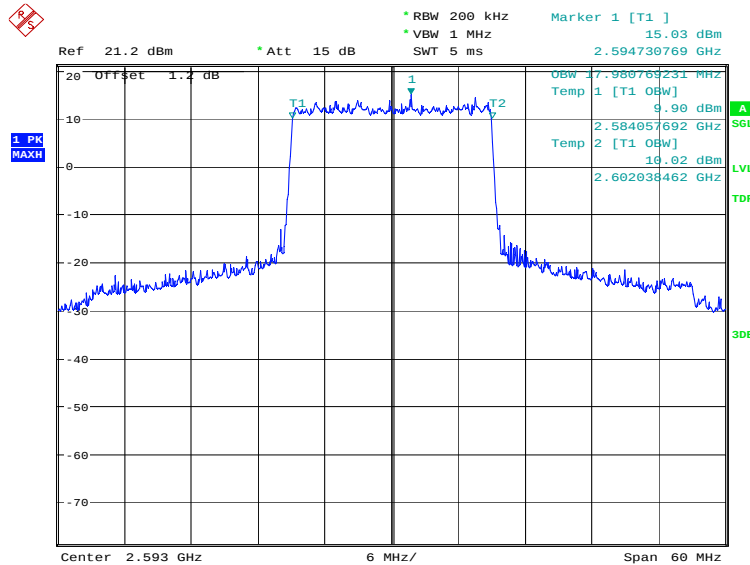


Date: 25.OCT.2021 14:58:16

LTE band 41, 20MHz (99%)

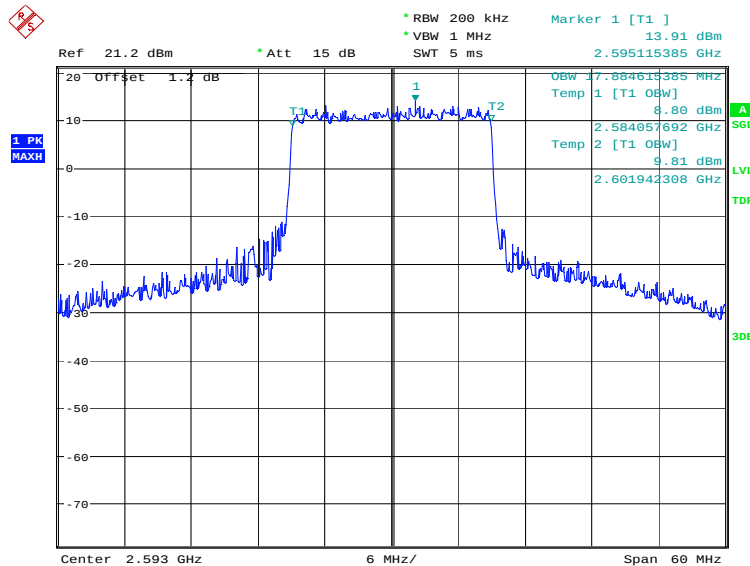
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	17980.77	17884.62

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



Date: 25.OCT.2021 14:59:10

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

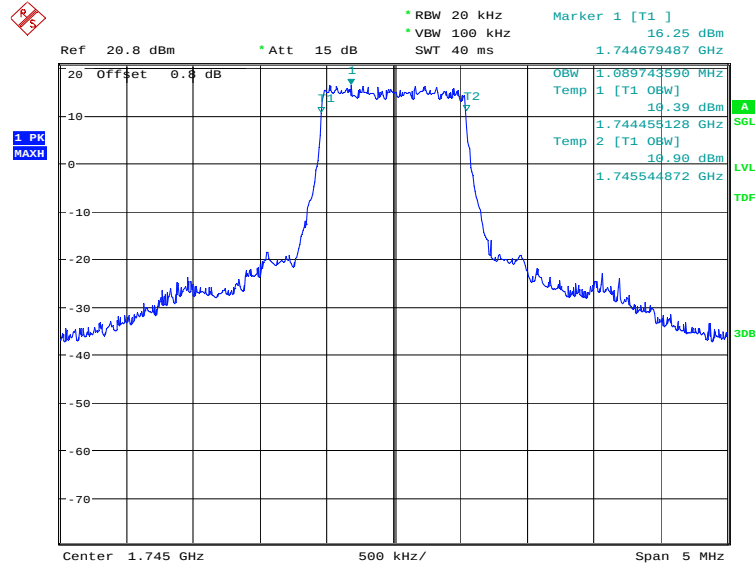


Date: 25.OCT.2021 15:00:03

LTE band 66, 1.4MHz (99%)

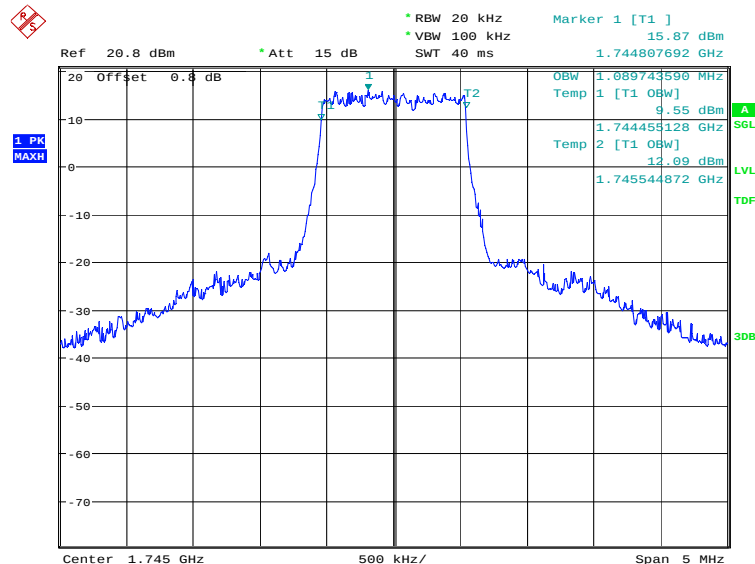
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	1089.74	1089.74

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



Date: 25.OCT.2021 09:35:09

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

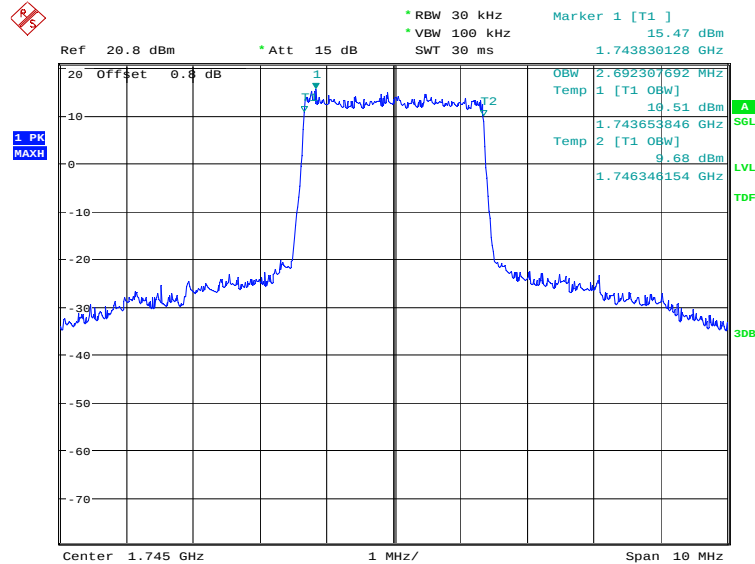


Date: 25.OCT.2021 09:36:01

LTE band 66, 3MHz (99%)

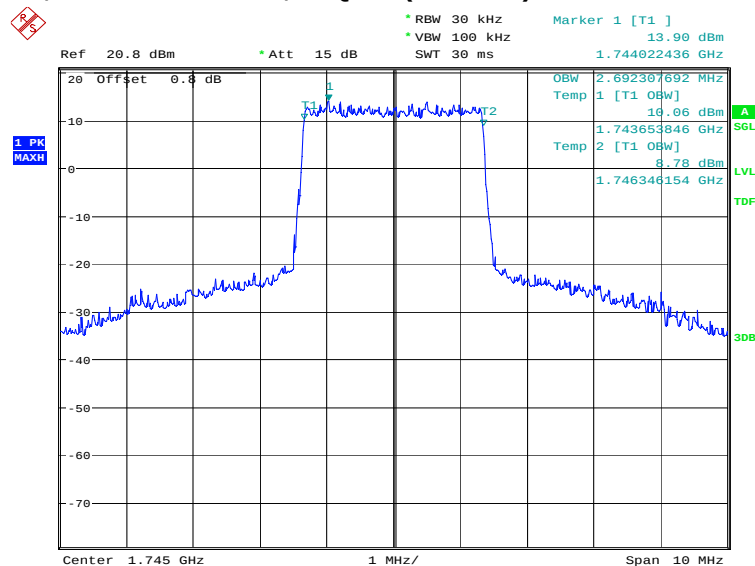
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 25.OCT.2021 09:36:55

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

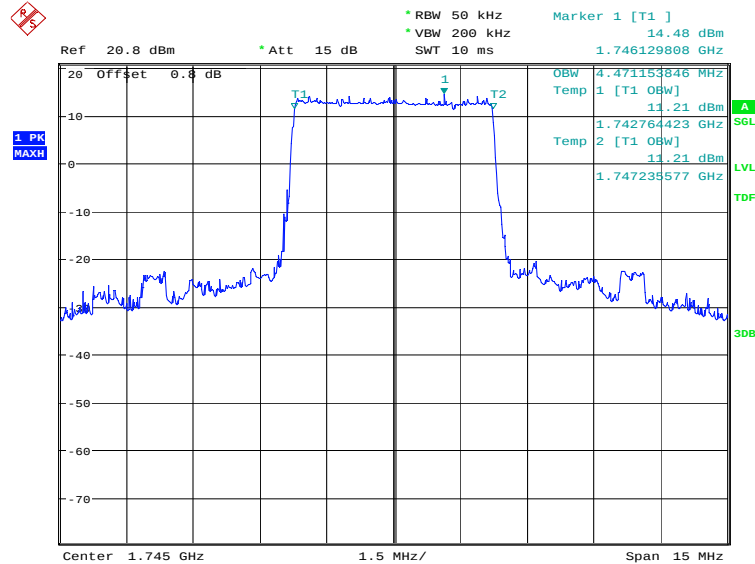


Date: 25.OCT.2021 09:37:48

LTE band 66, 5MHz (99%)

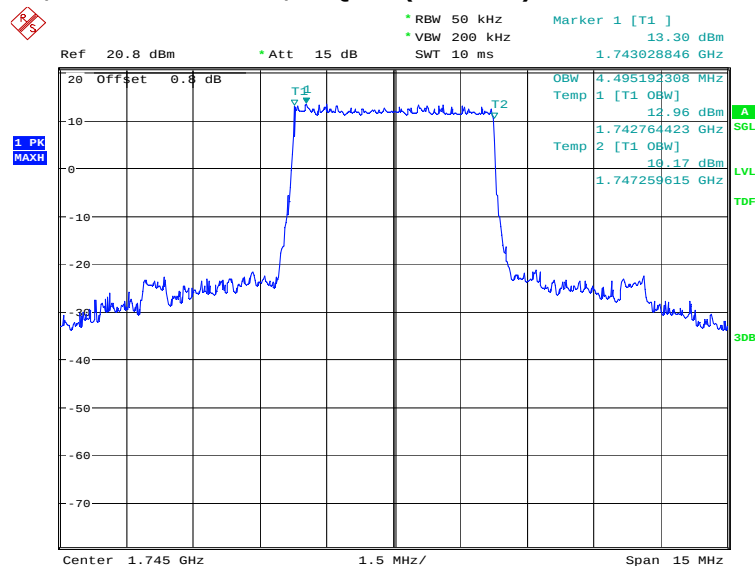
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	4471.15	4495.19

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



Date: 25.OCT.2021 09:38:42

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

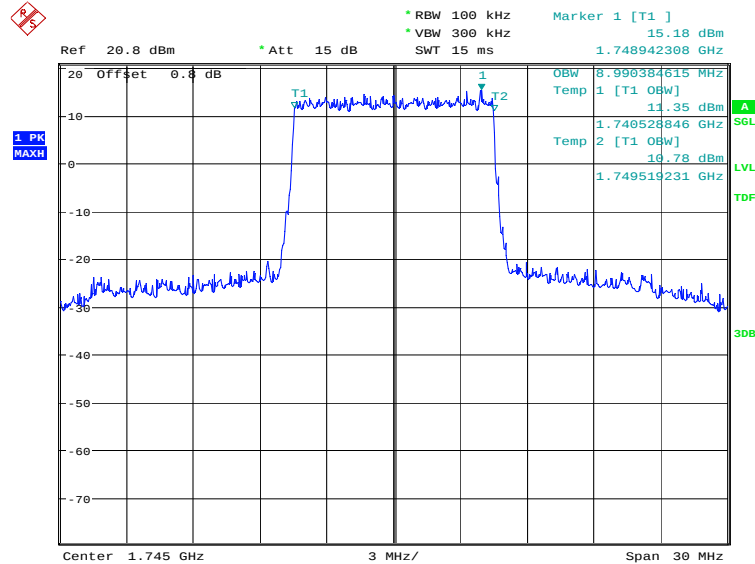


Date: 25.OCT.2021 09:39:35

LTE band 66, 10MHz (99%)

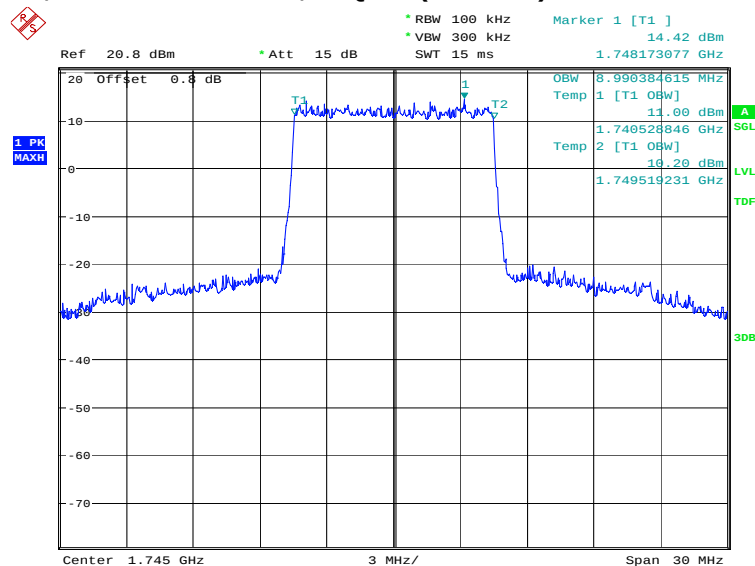
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	8990.38	8990.38

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



Date: 25.OCT.2021 09:40:29

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

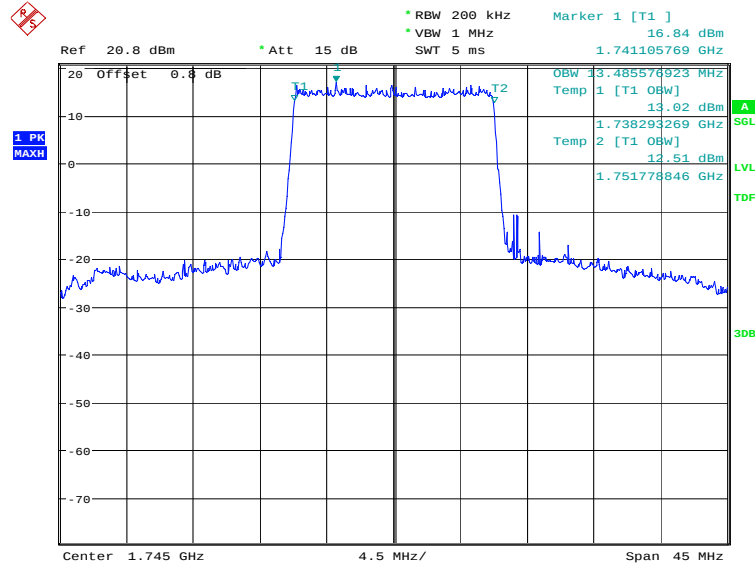


Date: 25.OCT.2021 09:41:21

LTE band 66, 15MHz (99%)

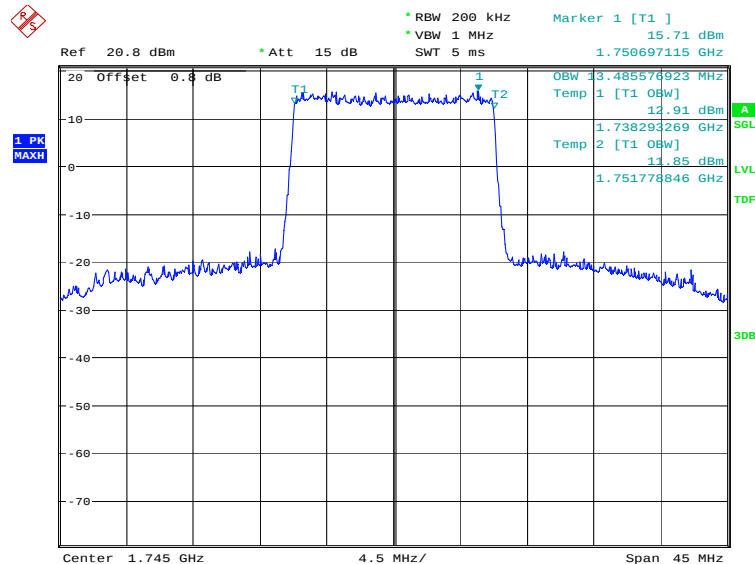
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 25.OCT.2021 09:42:16

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

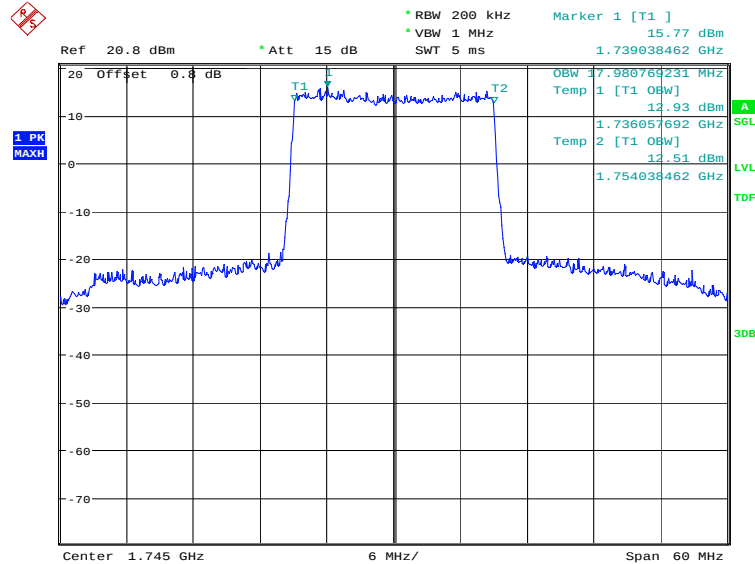


Date: 25.OCT.2021 09:43:08

LTE band 66, 20MHz (99%)

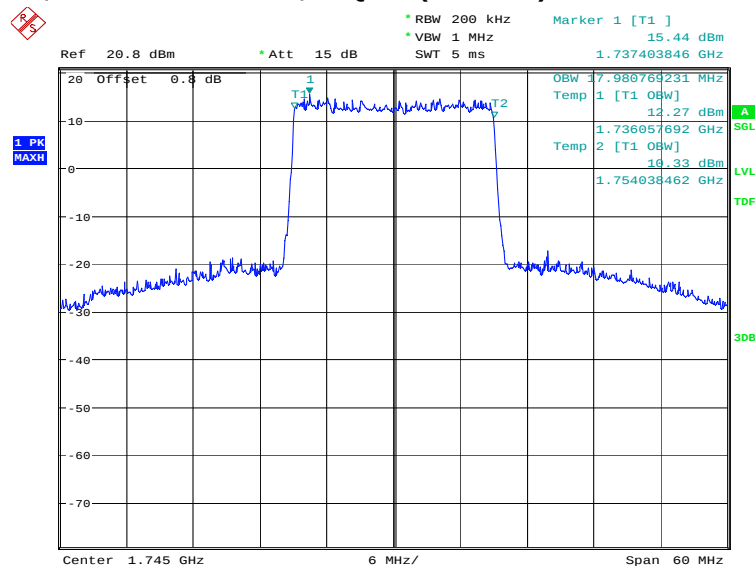
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	17980.77	17980.77

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



Date: 25.OCT.2021 09:44:03

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

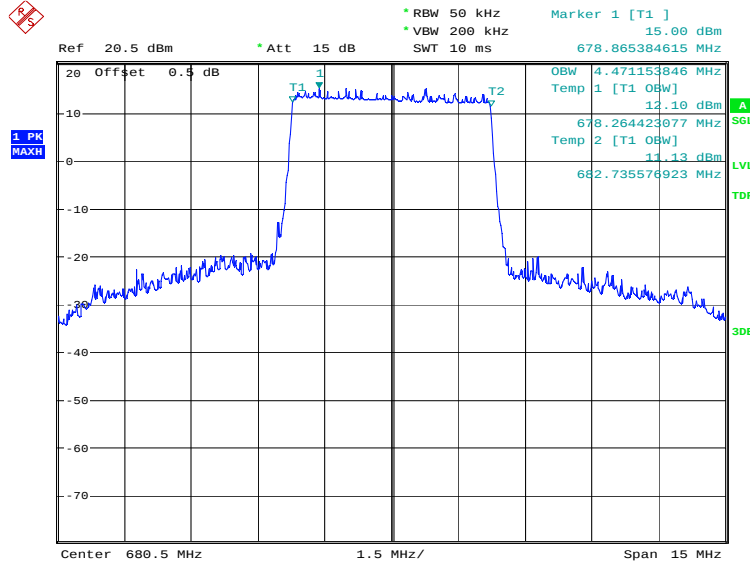


Date: 25.OCT.2021 09:44:55

LTE band 71, 5MHz (99%)

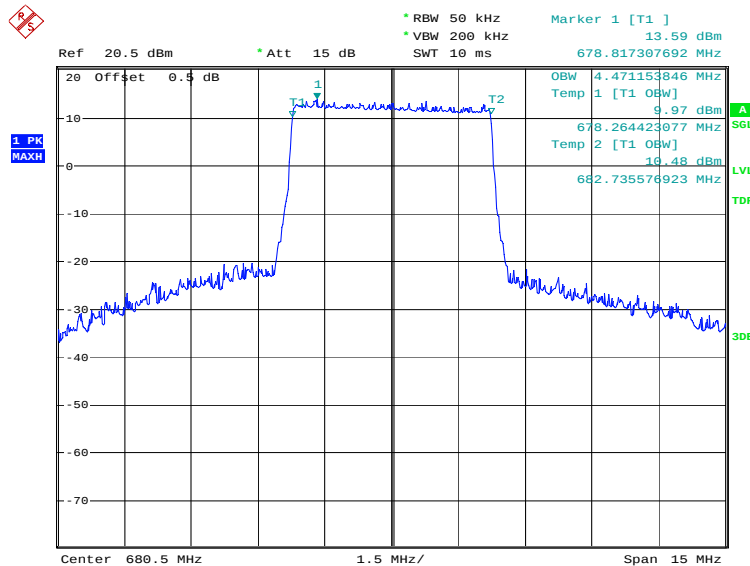
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	4471.15	4471.15

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



Date: 22.OCT.2021 17:26:01

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

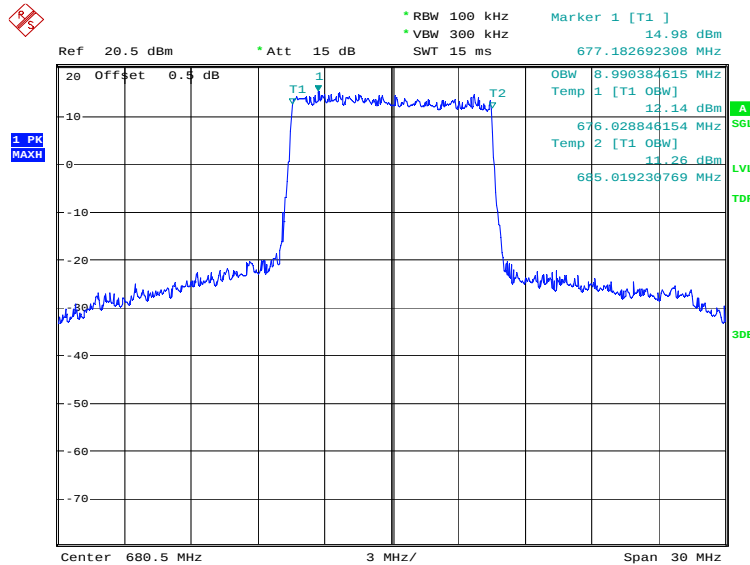


Date: 22.OCT.2021 17:26:53

LTE band 71, 10MHz (99%)

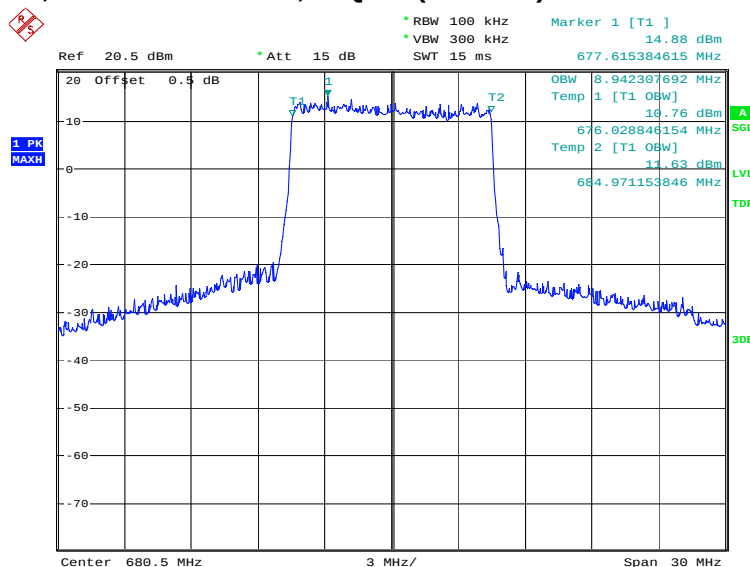
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	8990.38	8942.31

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



Date: 22.OCT.2021 17:27:47

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

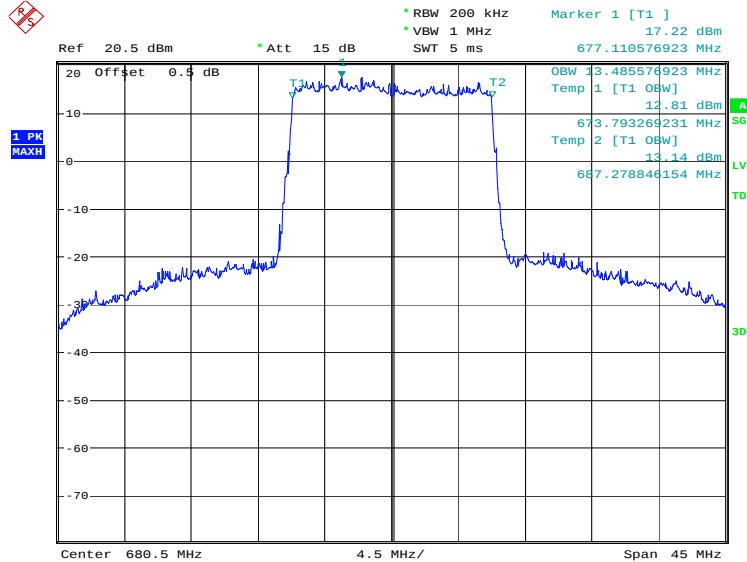


Date: 22.OCT.2021 17:28:40

LTE band 71, 15MHz (99%)

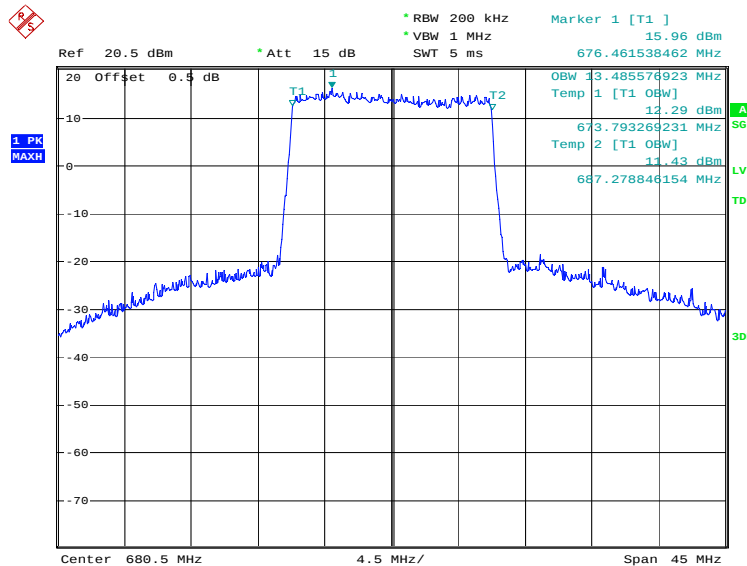
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 22.OCT.2021 17:29:34

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

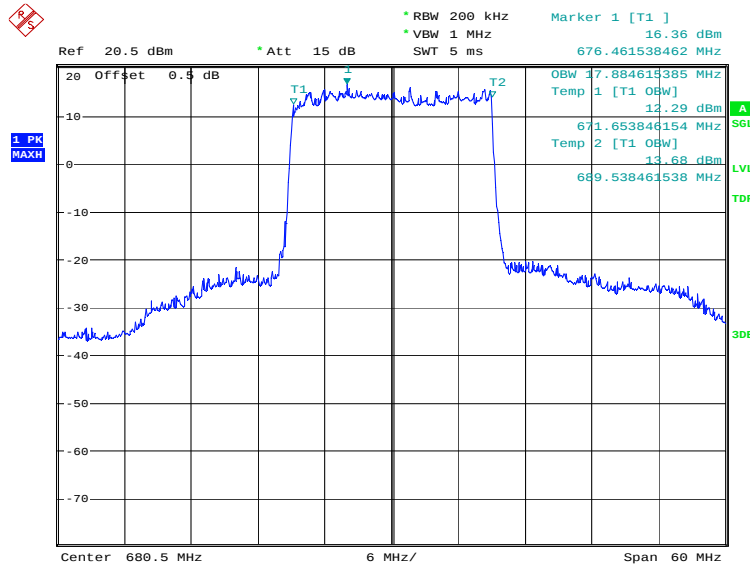


Date: 22.OCT.2021 17:30:26

LTE band 71, 20MHz (99%)

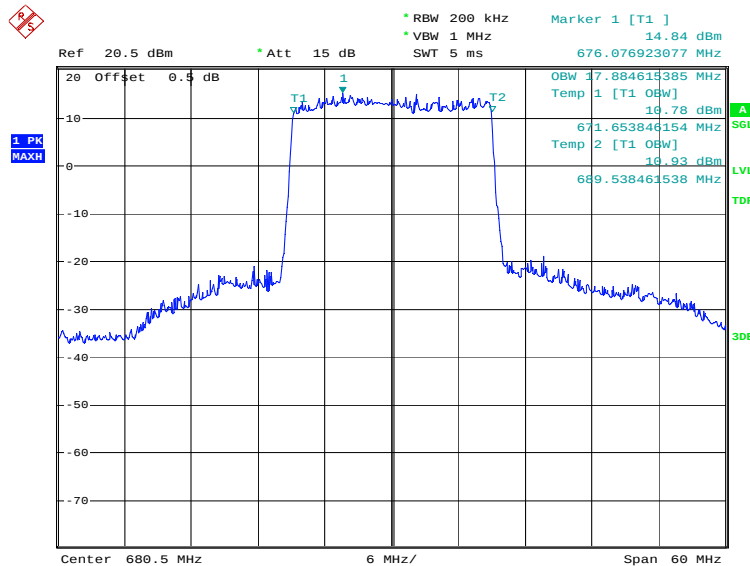
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	17884.62	17884.62

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



Date: 22.OCT.2021 17:31:21

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

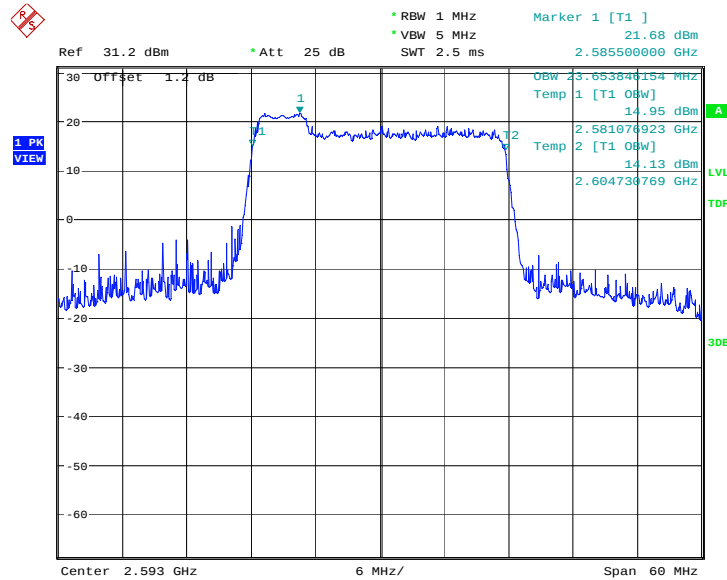


Date: 22.OCT.2021 17:32:13

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

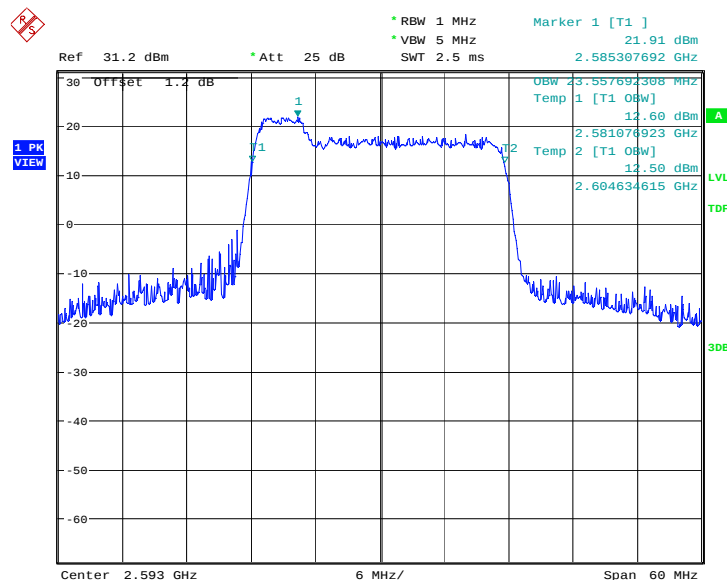
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2583.8	23.654	23.558

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



Date: 16.NOV.2021 10:07:01

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

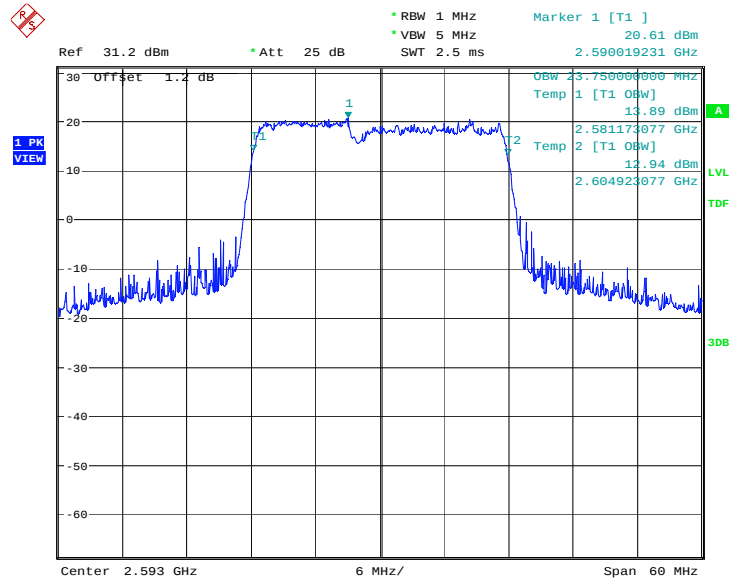


Date: 16.NOV.2021 10:07:13

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

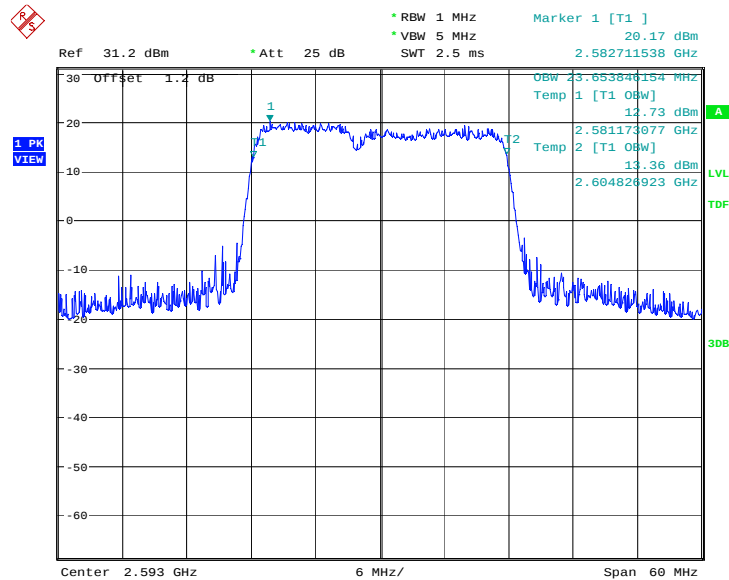
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2583.6	23.750	23.654

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



Date: 16.NOV.2021 10:08:03

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

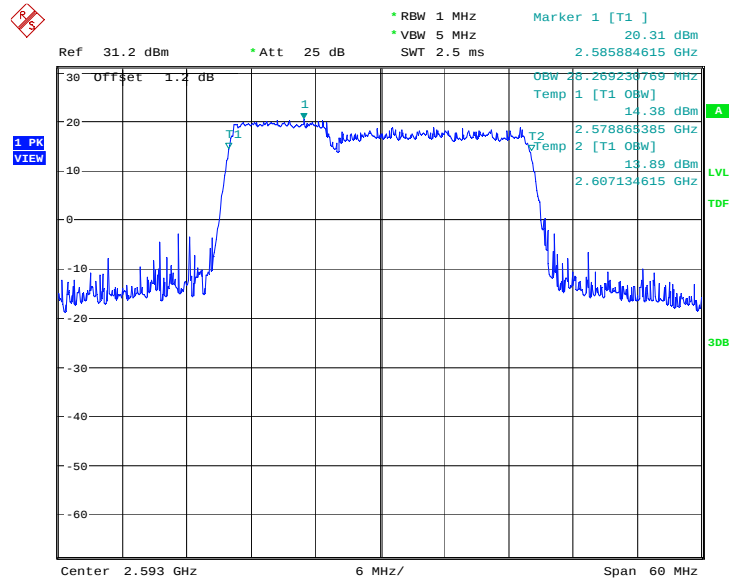


Date: 16.NOV.2021 10:08:15

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

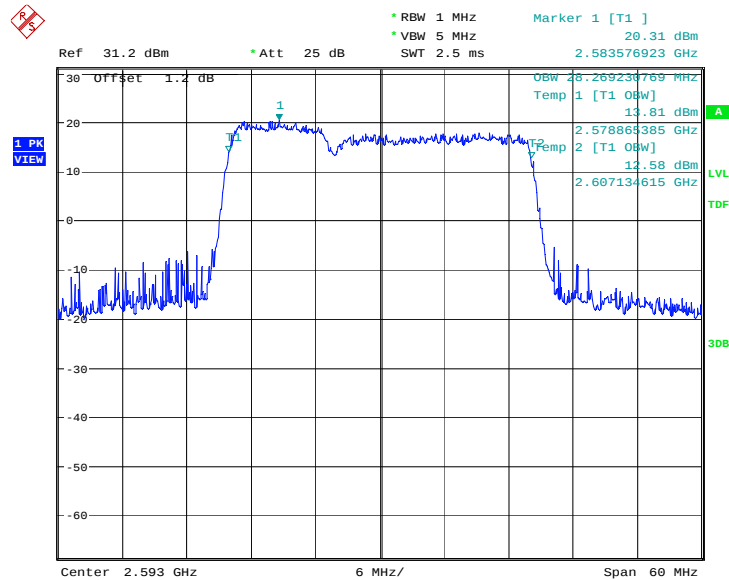
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2583.6	28.269	28.269

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



Date: 16.NOV.2021 10:09:02

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

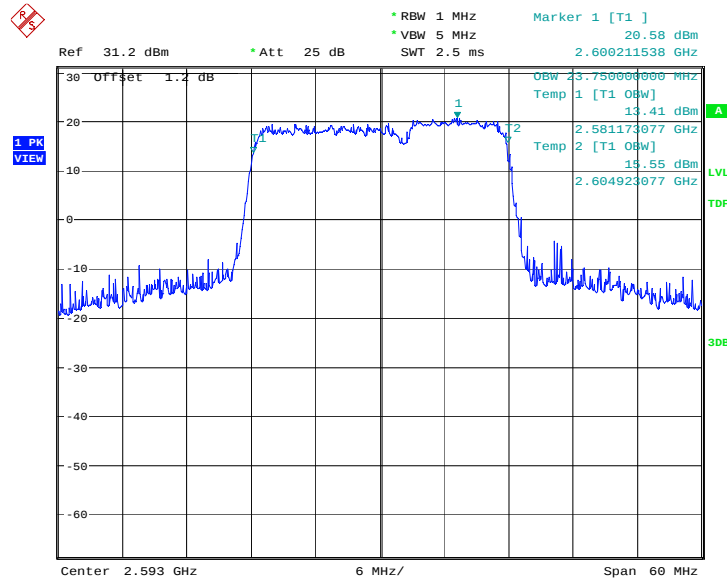


Date: 16.NOV.2021 10:09:14

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

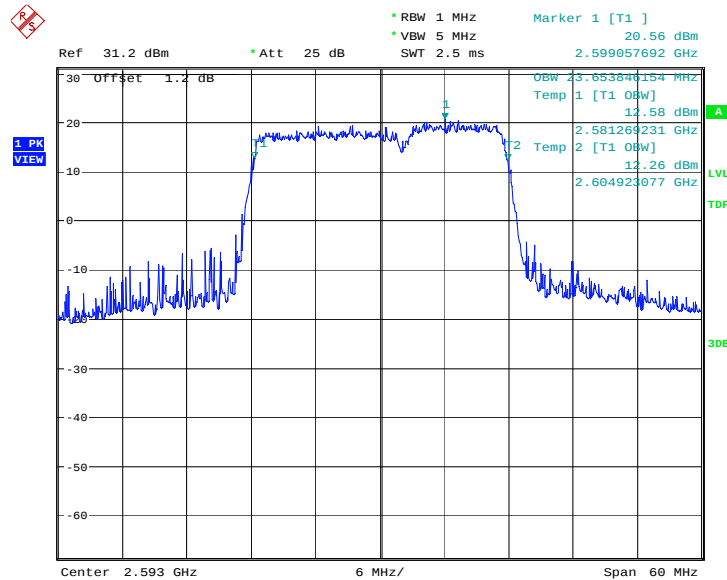
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2583.3	23.750	23.654

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



Date: 16.NOV.2021 10:10:04

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

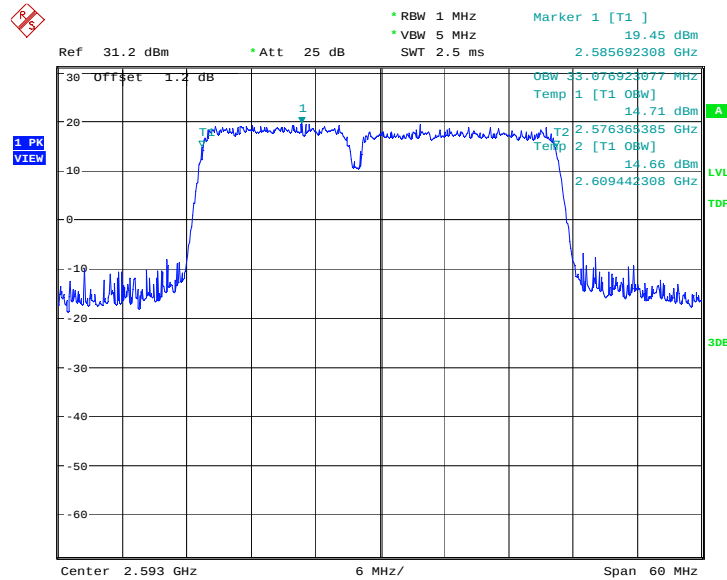


Date: 16.NOV.2021 10:10:16

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

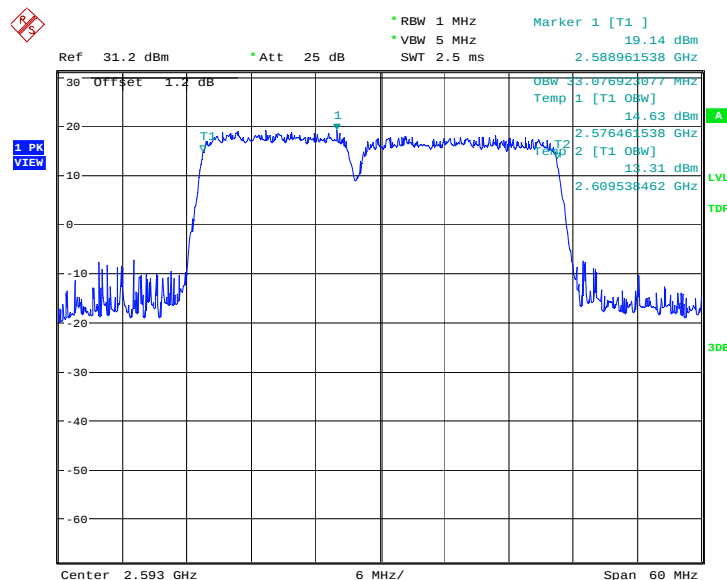
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2583.3	33.077	33.077

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



Date: 16.NOV.2021 10:12:03

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

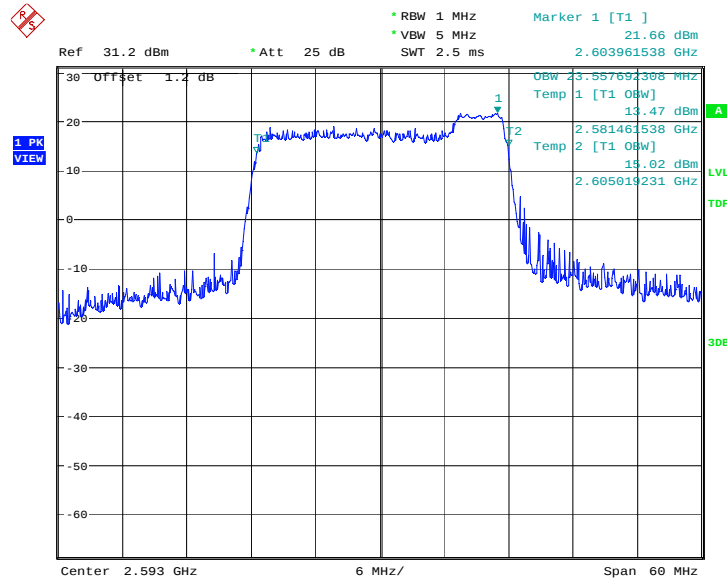


Date: 16.NOV.2021 10:12:14

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

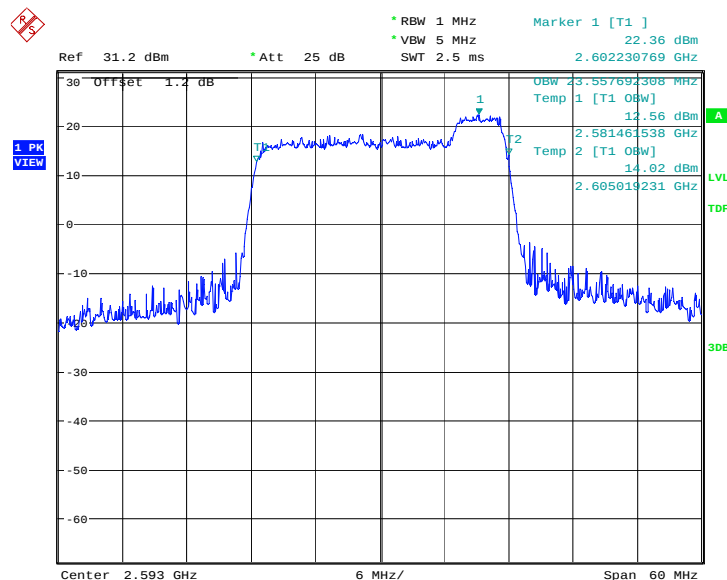
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2583.1	23.558	23.558

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



Date: 16.NOV.2021 10:13:05

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

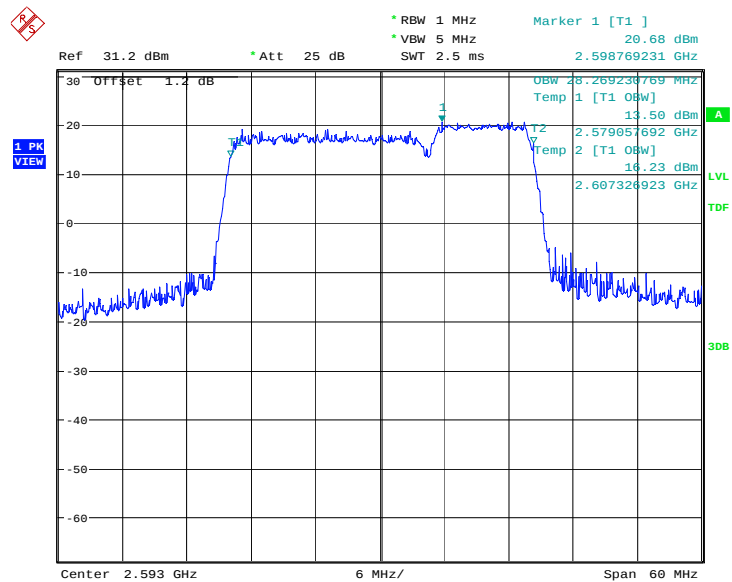


Date: 16.NOV.2021 10:13:16

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

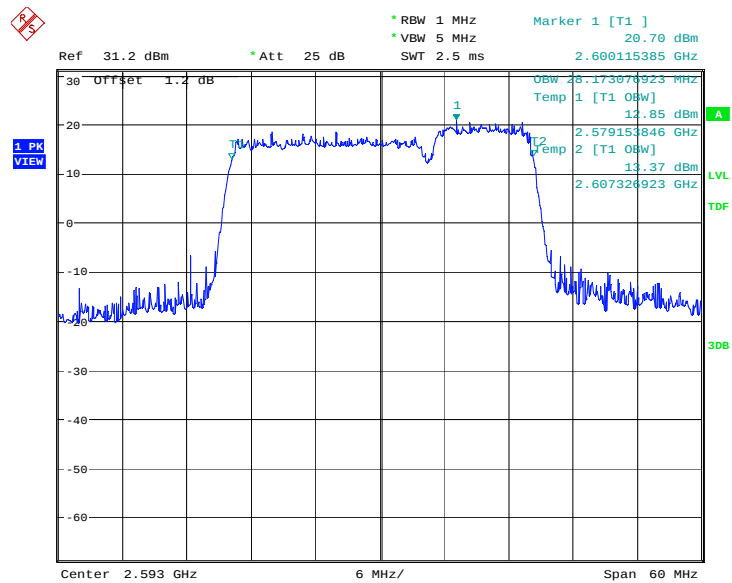
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2583.1	28.269	28.173

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



Date: 16.NOV.2021 10:14:04

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

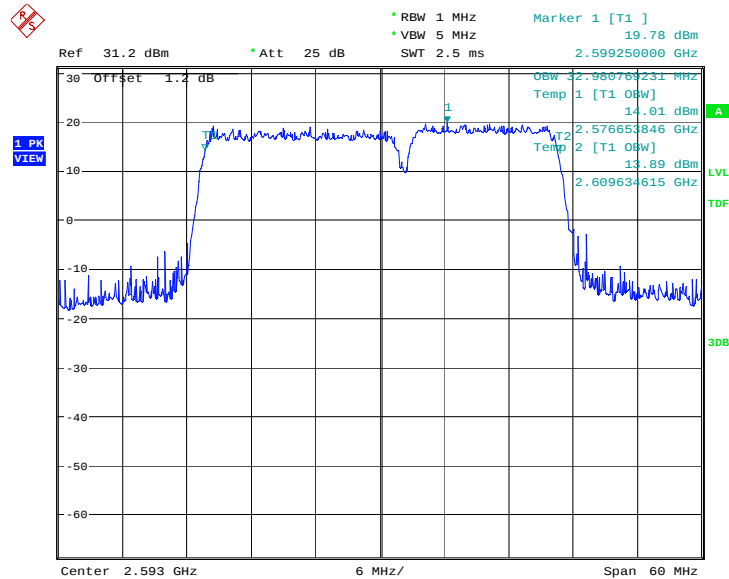


Date: 16.NOV.2021 10:14:15

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

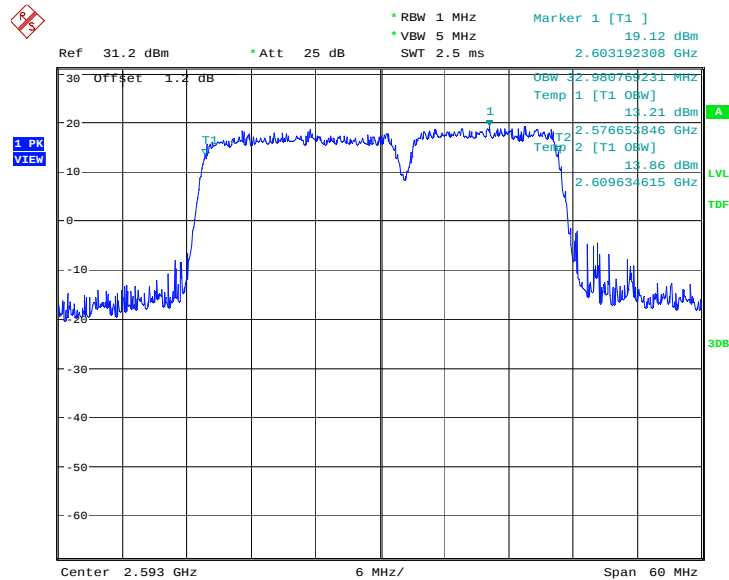
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2583.1	32.981	32.981

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



Date: 16.NOV.2021 10:15:03

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

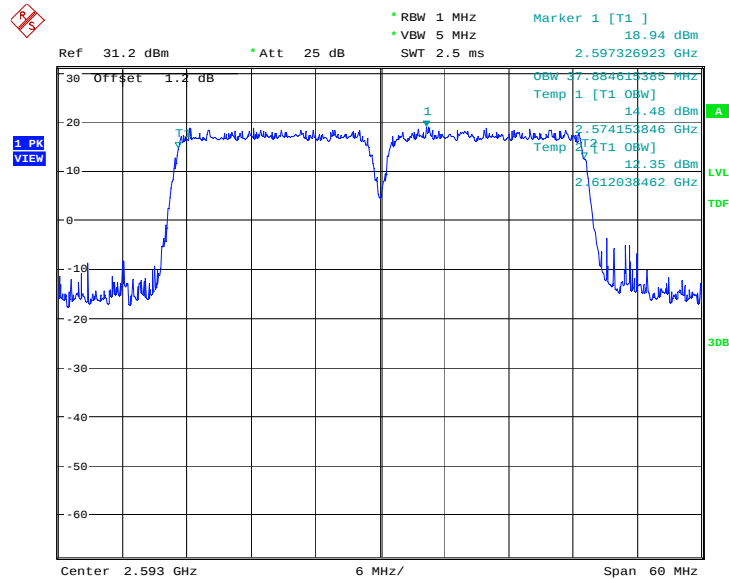


Date: 16.NOV.2021 10:15:14

LTE CA band 41,20MHz+20MHz(99%)

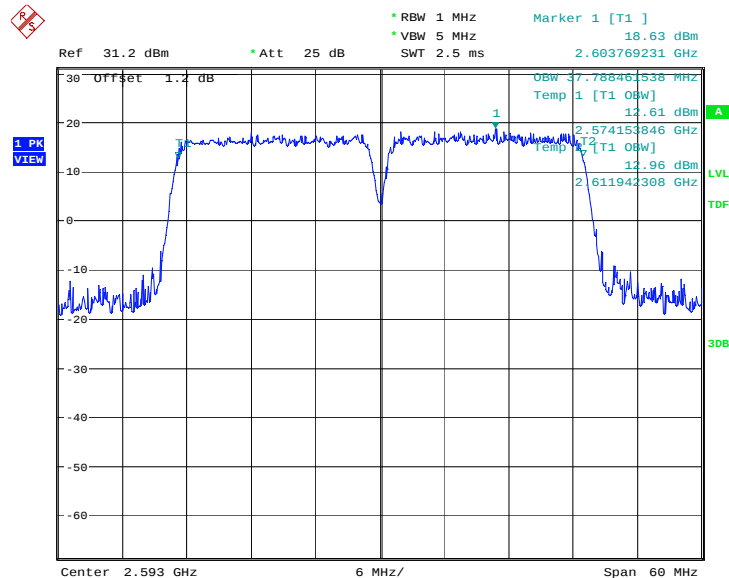
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2583.1	37.884	37.788

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



Date: 16.NOV.2021 10:16:02

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



Date: 16.NOV.2021 10:16:14

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.

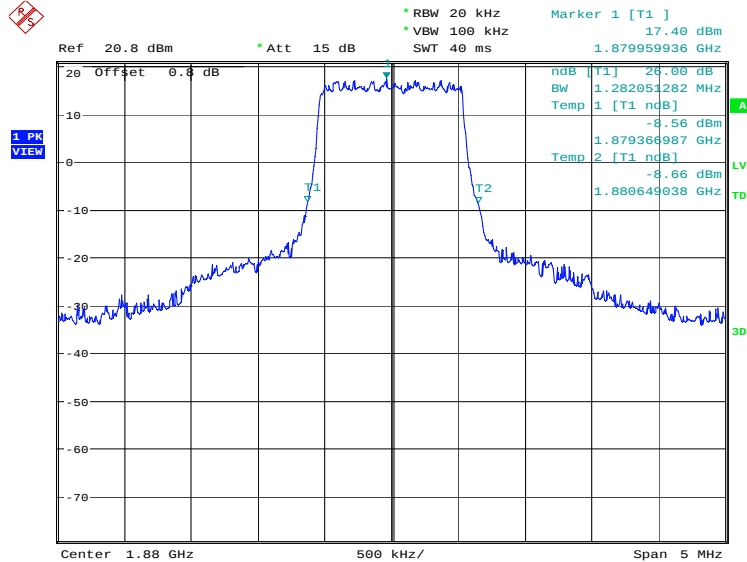
The measurement method is from ANSI C63.26:

- 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)

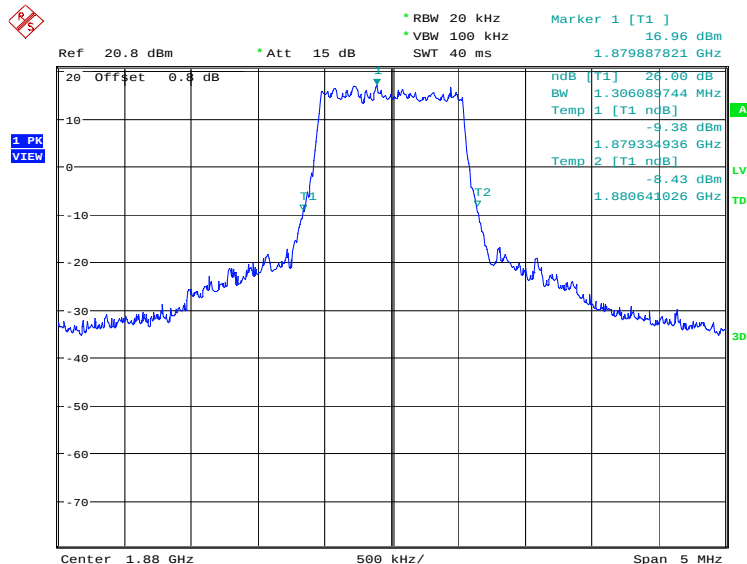
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	1282.05	1306.09

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



Date: 25.OCT.2021 09:46:46

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

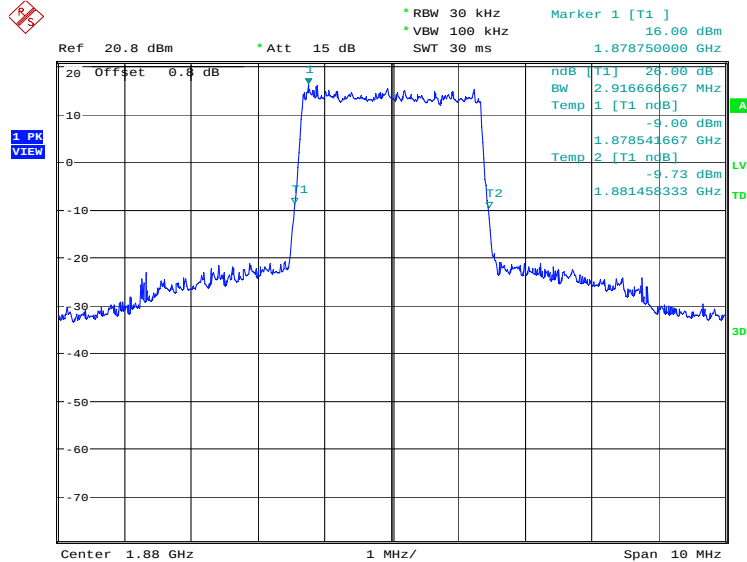


Date: 25.OCT.2021 09:47:39

LTE band 2, 3MHz (-26dBc)

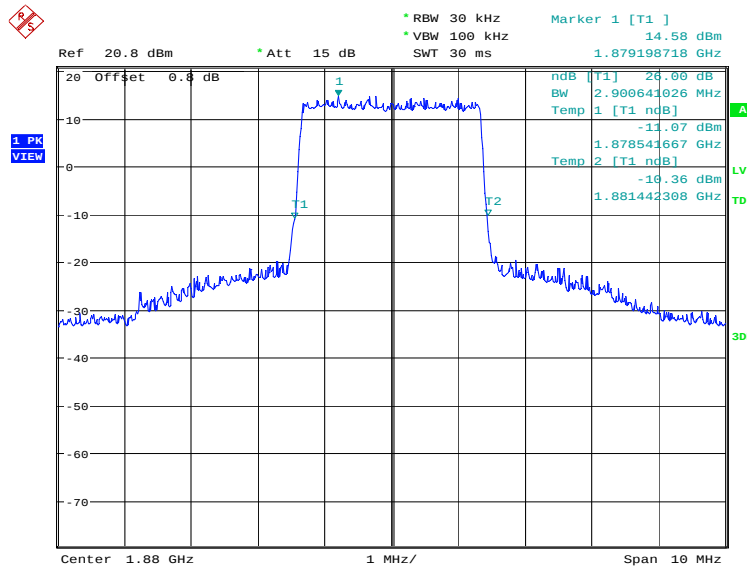
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	2916.67	2900.64

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



Date: 25.OCT.2021 09:48:34

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

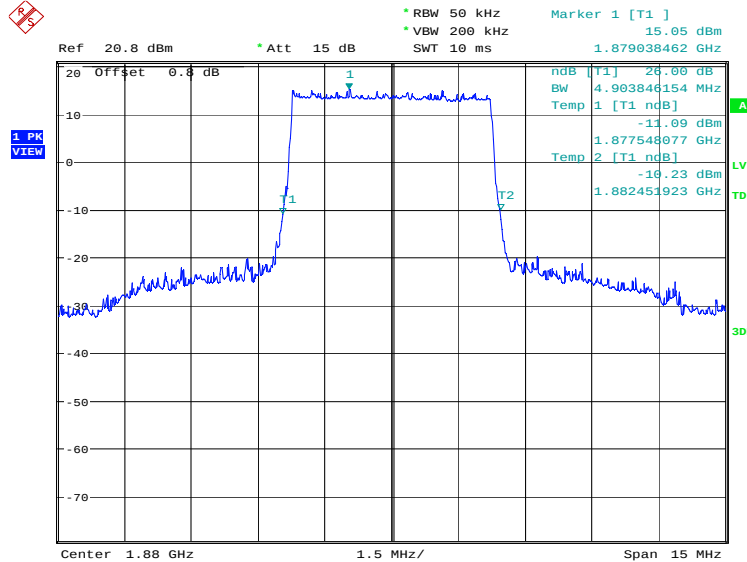


Date: 25.OCT.2021 09:49:27

LTE band 2, 5MHz (-26dBc)

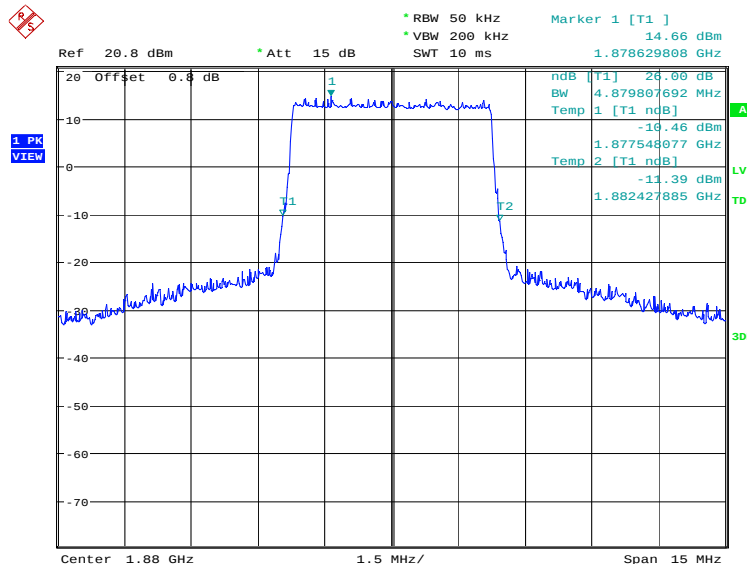
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	4903.85	4879.81

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



Date: 25.OCT.2021 09:50:22

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

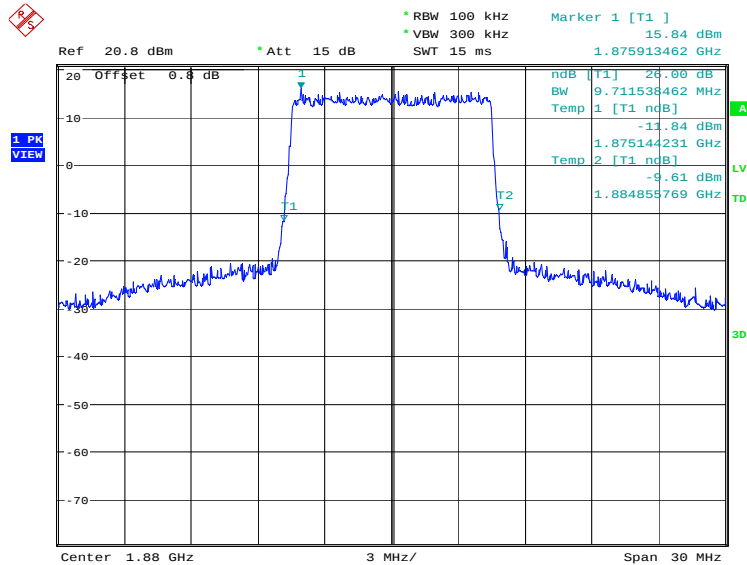


Date: 25.OCT.2021 09:51:15

LTE band 2, 10MHz (-26dBc)

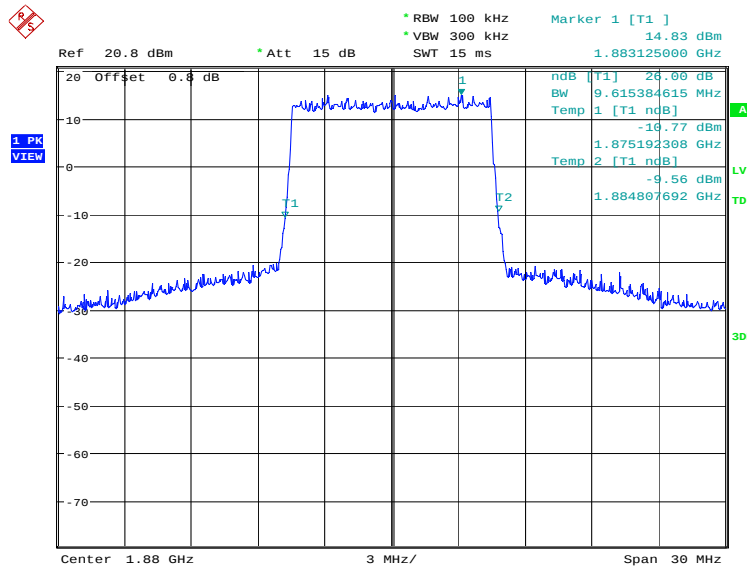
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	9711.54	9615.38

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



Date: 25.OCT.2021 09:52:10

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

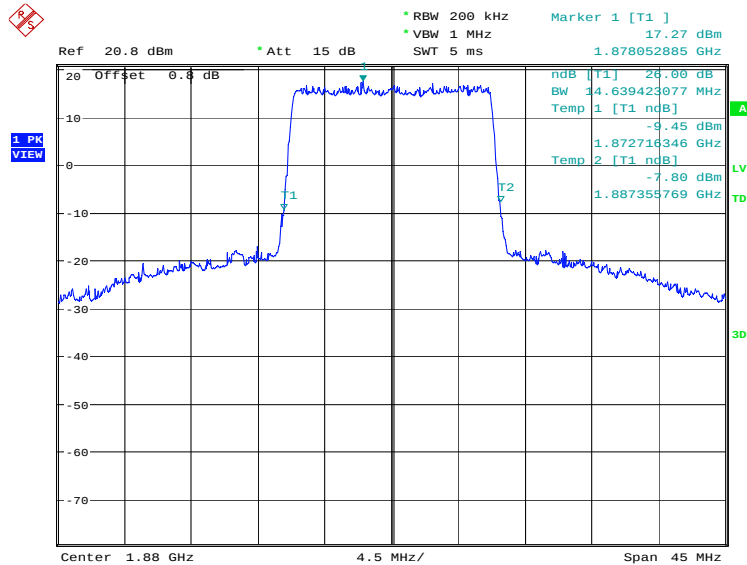


Date: 25.OCT.2021 09:53:02

LTE band 2, 15MHz (-26dBc)

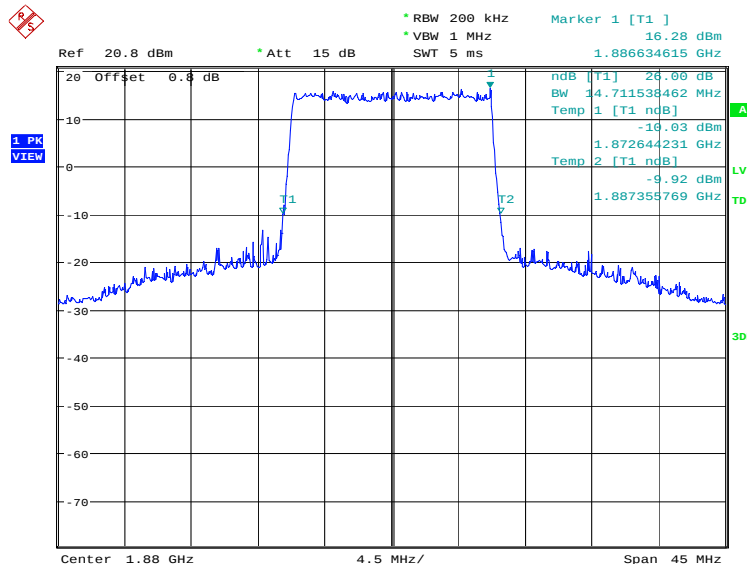
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	14639.42	14711.54

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



Date: 25.OCT.2021 09:53:57

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

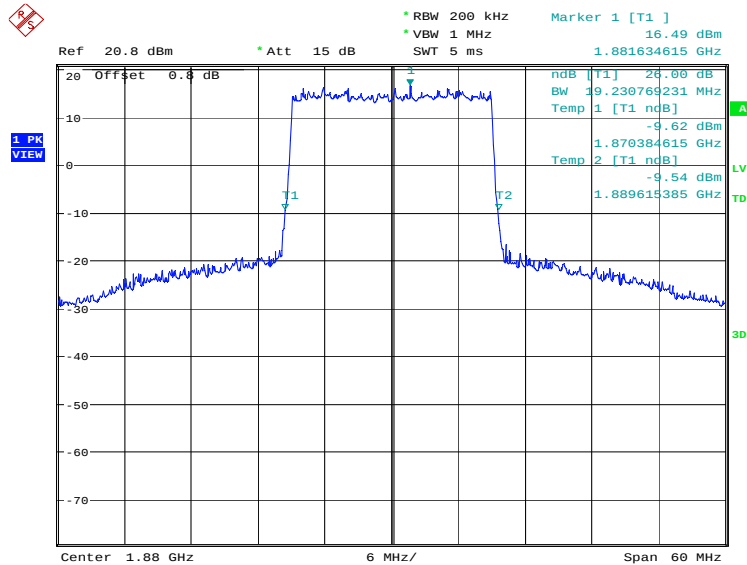


Date: 25.OCT.2021 09:54:50

LTE band 2, 20MHz (-26dBc)

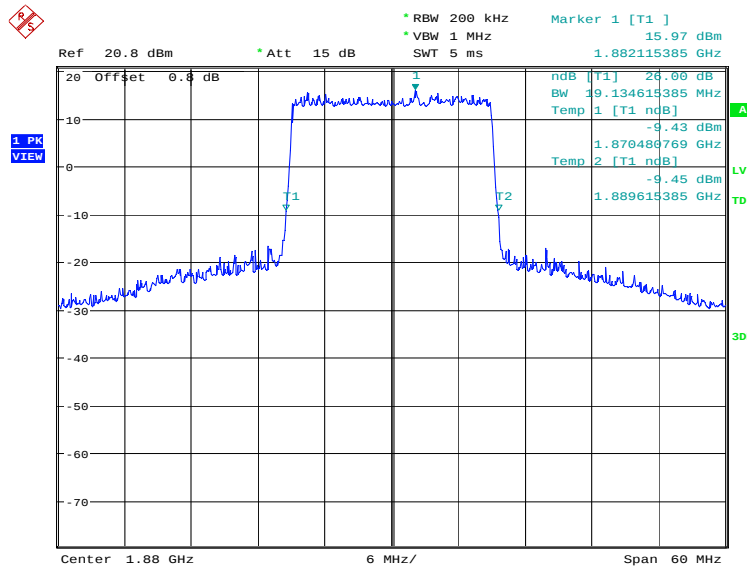
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	19230.77	19134.62

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



Date: 25.OCT.2021 09:55:45

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

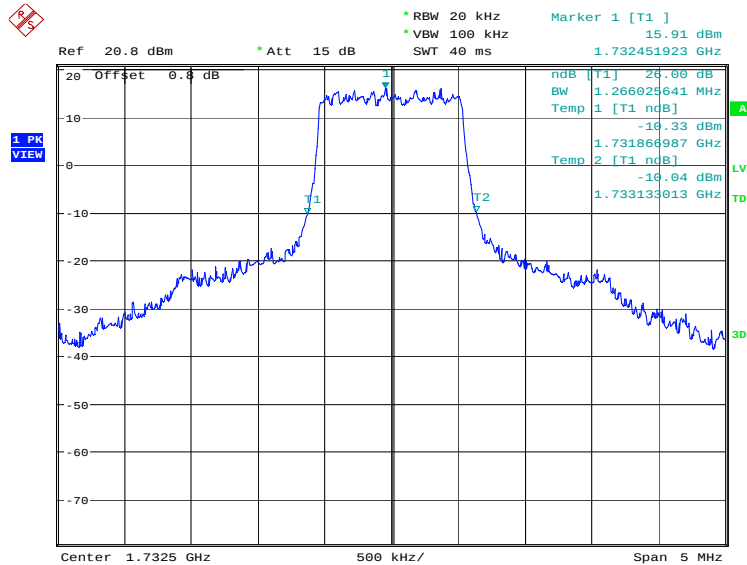


Date: 25.OCT.2021 09:56:38

LTE band 4, 1.4MHz (-26dBc)

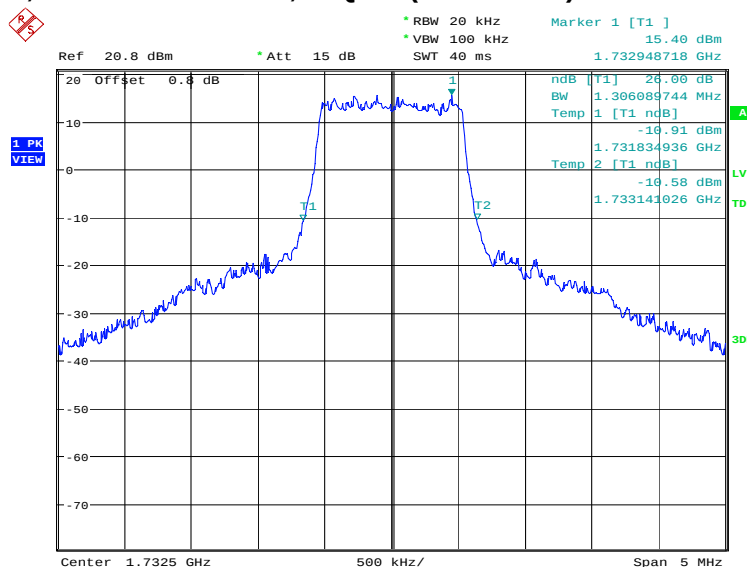
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	1266.03	1306.09

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



Date: 18.NOV.2021 16:35:07

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

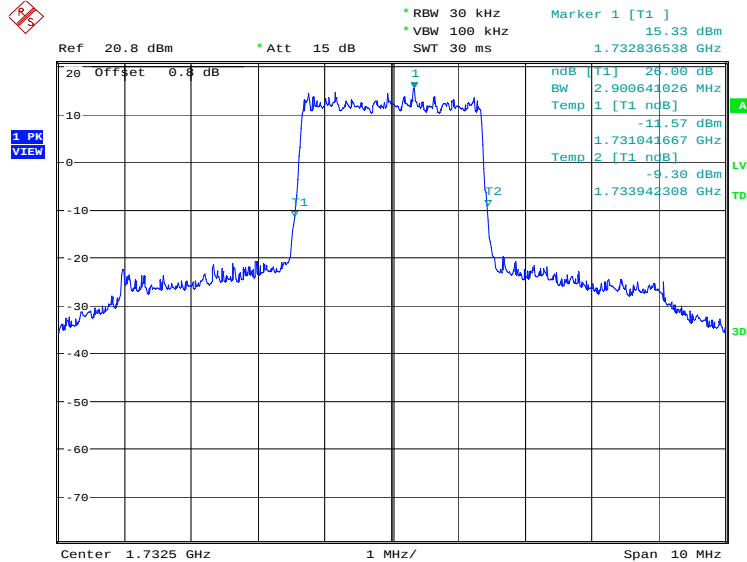


Date: 18.NOV.2021 16:35:46

LTE band 4, 3MHz (-26dBc)

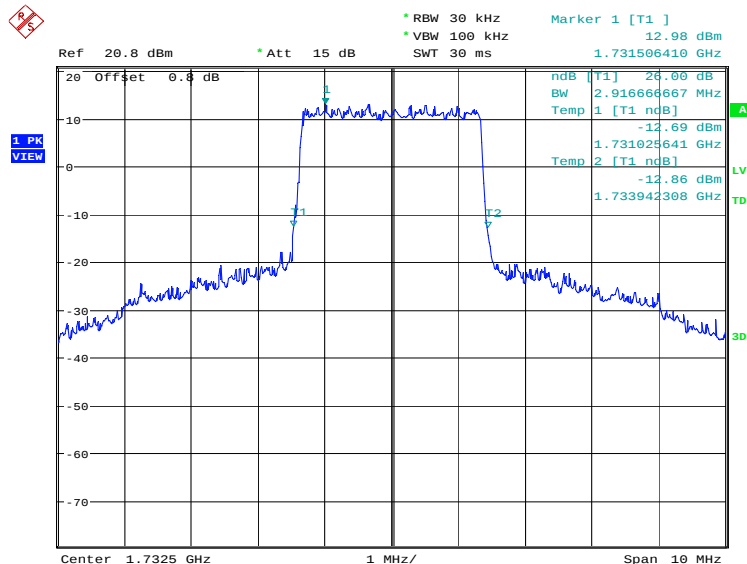
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	2900.64	2916.67

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



Date: 18.NOV.2021 16:36:27

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

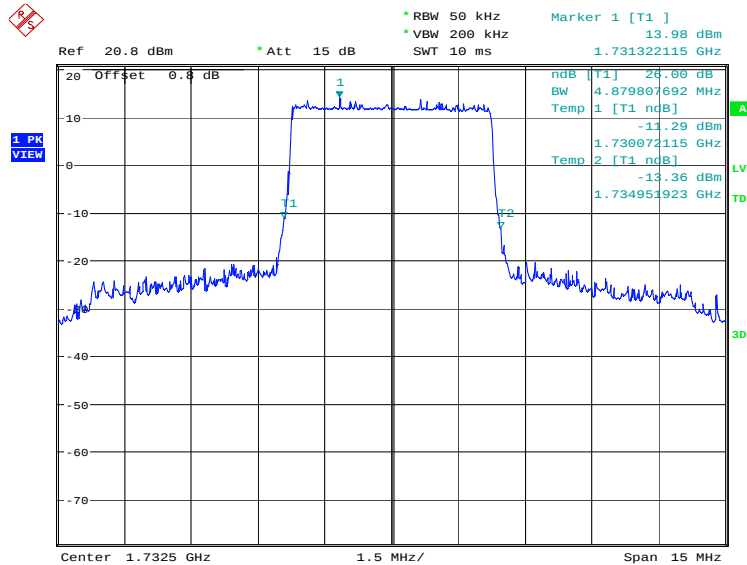


Date: 18.NOV.2021 16:37:07

LTE band 4, 5MHz (-26dBc)

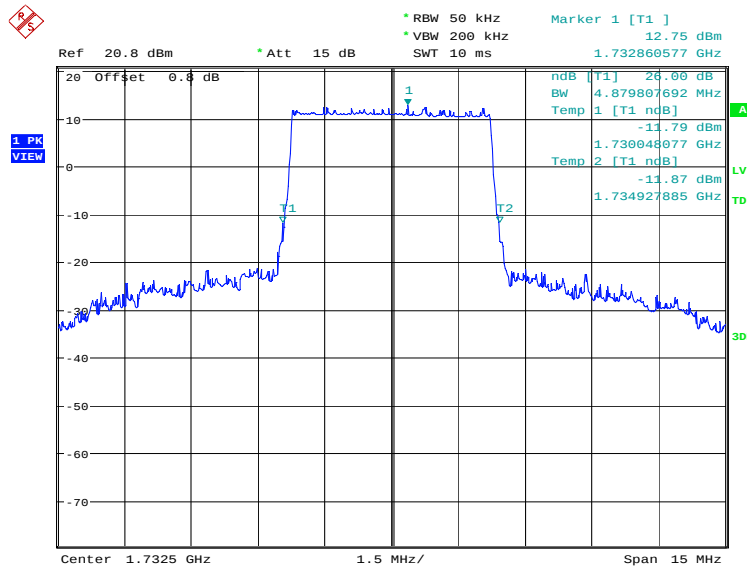
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	4879.81	4879.81

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



Date: 18.NOV.2021 16:37:48

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

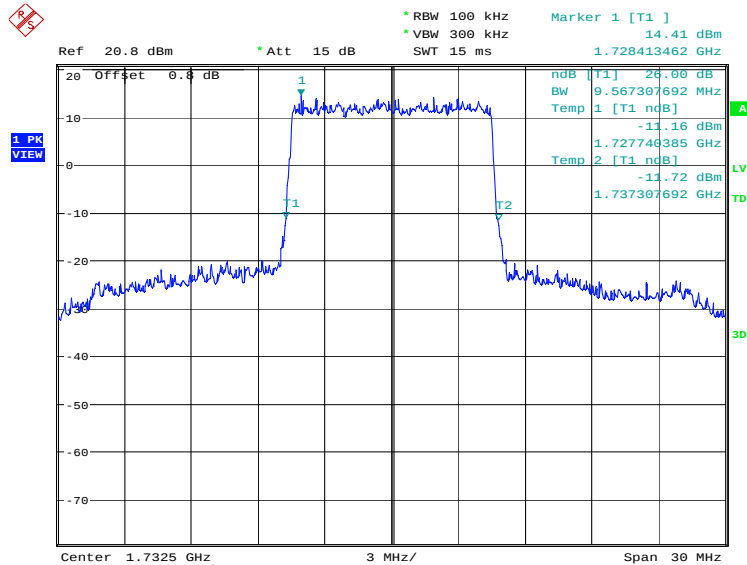


Date: 18.NOV.2021 16:38:28

LTE band 4, 10MHz (-26dBc)

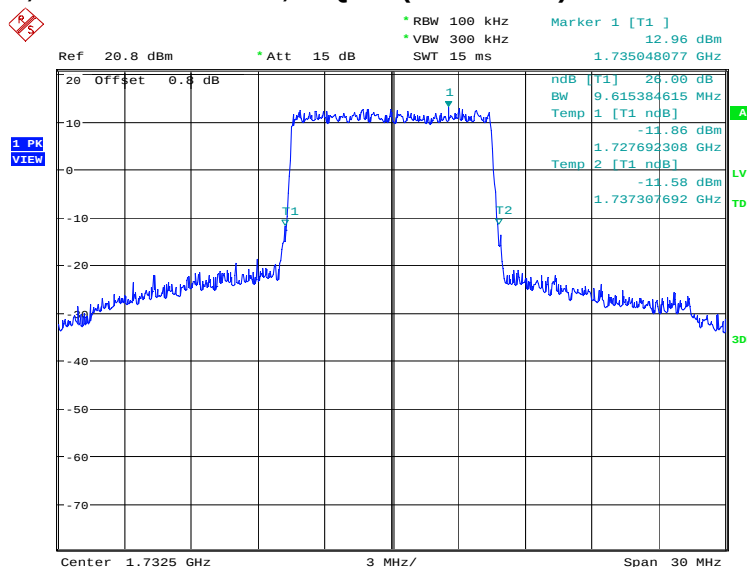
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	9567.31	9615.38

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



Date: 18.NOV.2021 16:39:09

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

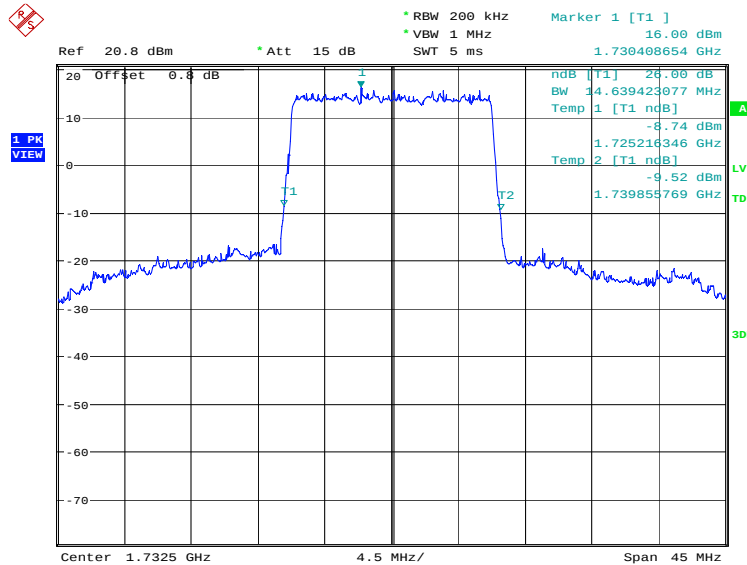


Date: 18.NOV.2021 16:39:49

LTE band 4, 15MHz (-26dBc)

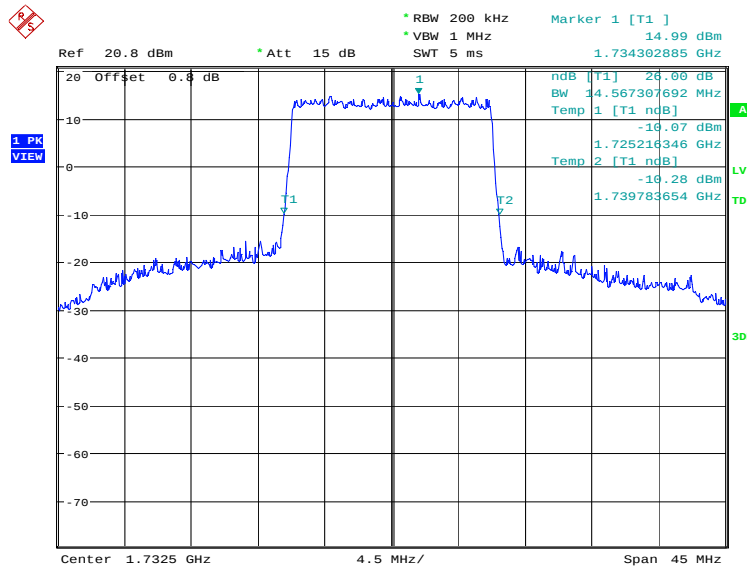
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	14639.42	14567.31

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



Date: 18.NOV.2021 16:40:30

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

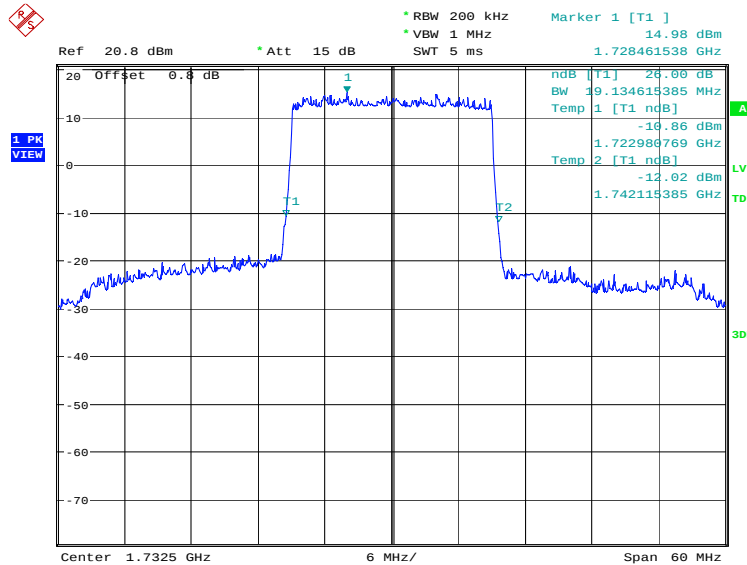


Date: 18.NOV.2021 16:41:10

LTE band 4, 20MHz (-26dBc)

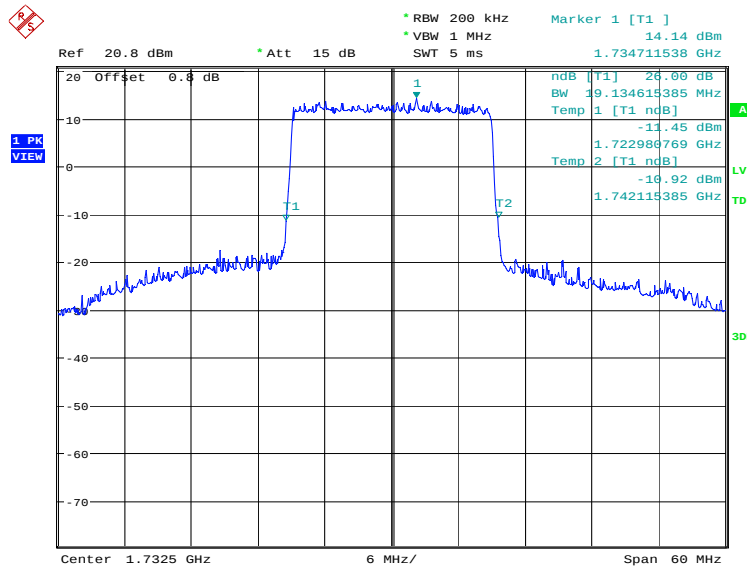
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	19134.62	19134.62

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



Date: 18.NOV.2021 16:41:51

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

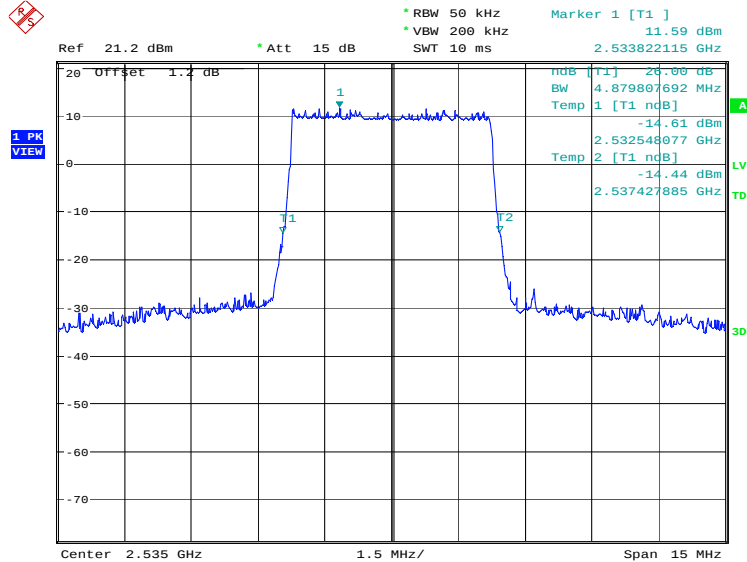


Date: 18.NOV.2021 16:42:31

LTE band 7, 5MHz (-26dBc)

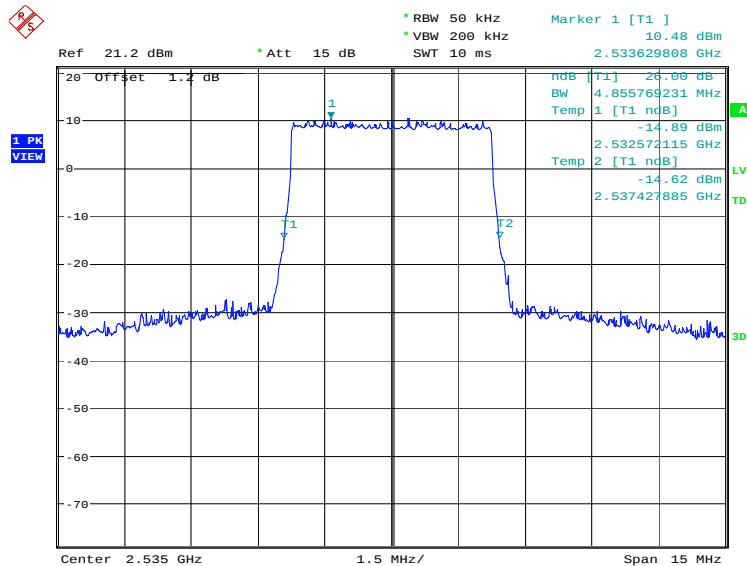
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	4879.81	4855.77

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



Date: 25.OCT.2021 15:01:54

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

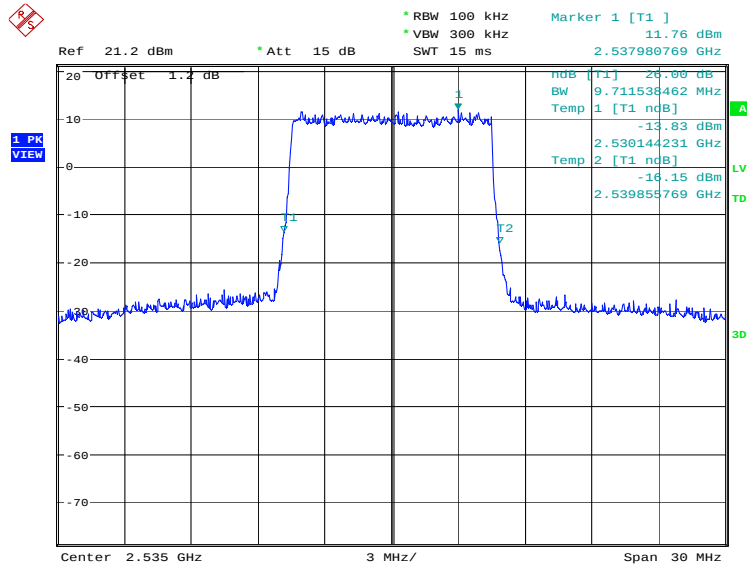


Date: 25.OCT.2021 15:02:46

LTE band 7, 10MHz (-26dBc)

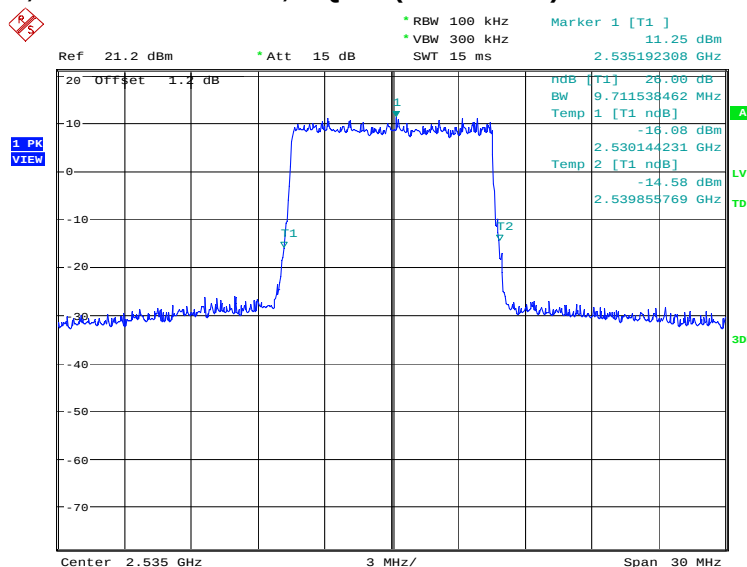
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	9711.54	9711.54

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



Date: 25.OCT.2021 15:03:41

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

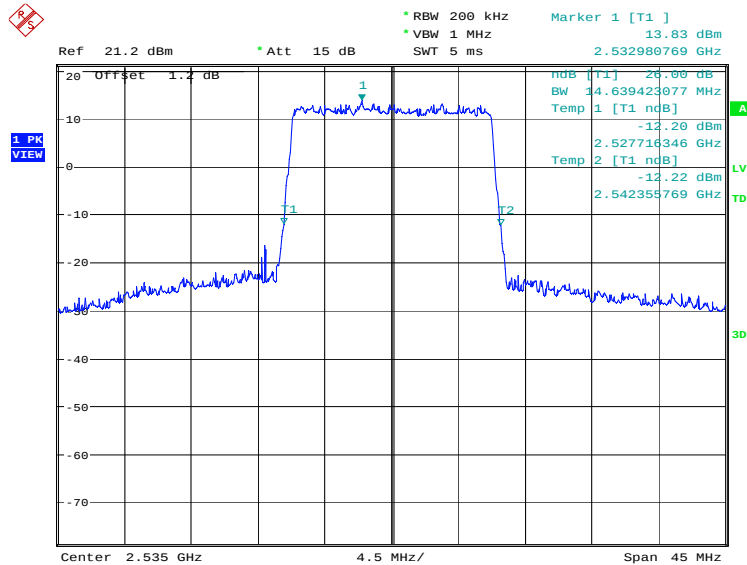


Date: 25.OCT.2021 15:04:34

LTE band 7, 15MHz (-26dBc)

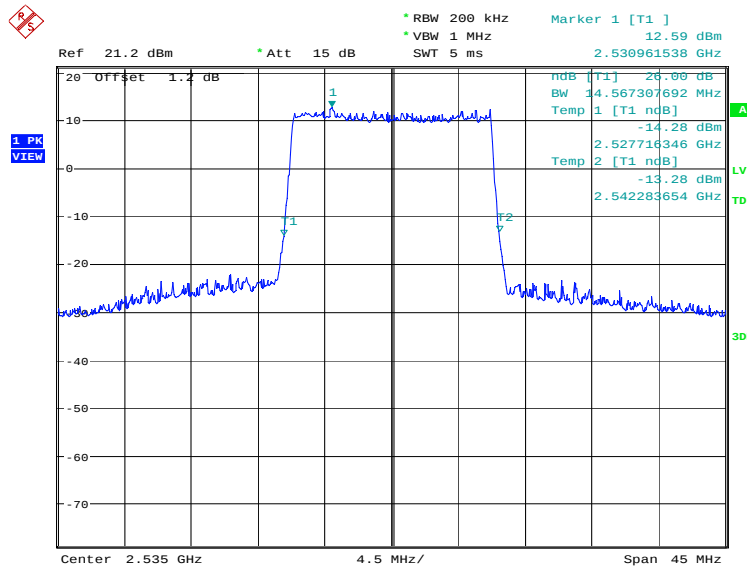
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	14639.42	14567.31

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



Date: 25.OCT.2021 15:05:29

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

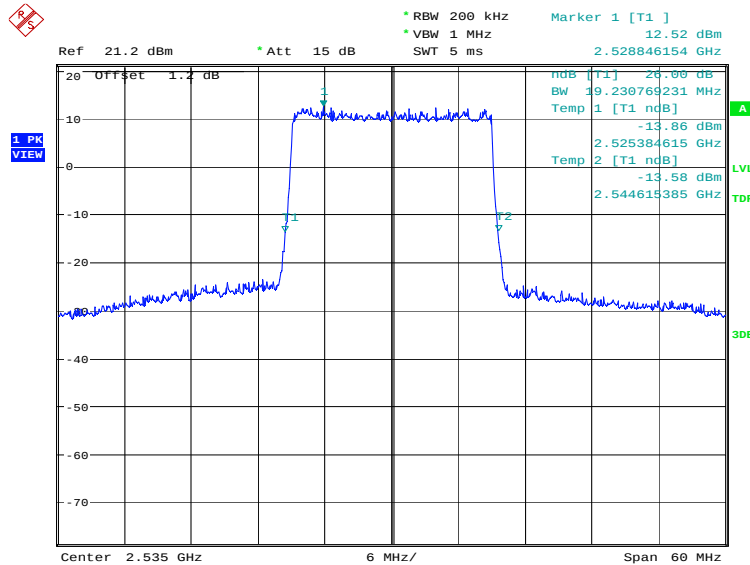


Date: 25.OCT.2021 15:06:22

LTE band 7, 20MHz (-26dBc)

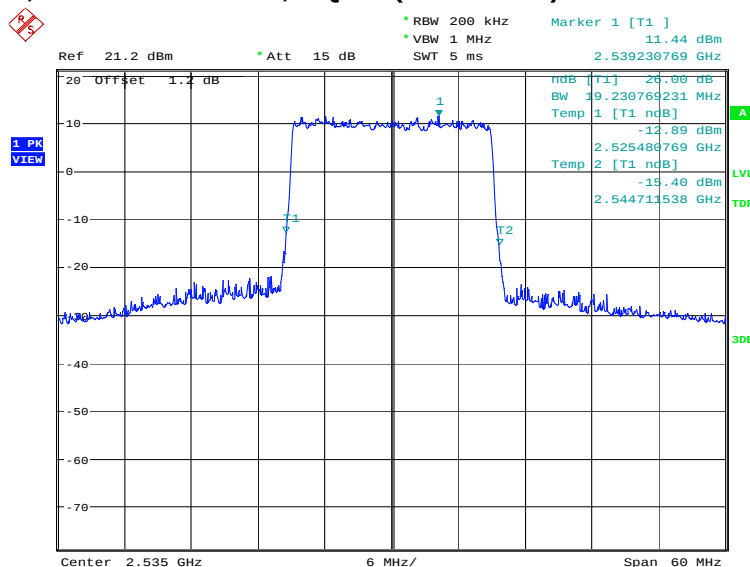
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	19230.77	19230.77

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



Date: 25.OCT.2021 15:07:17

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

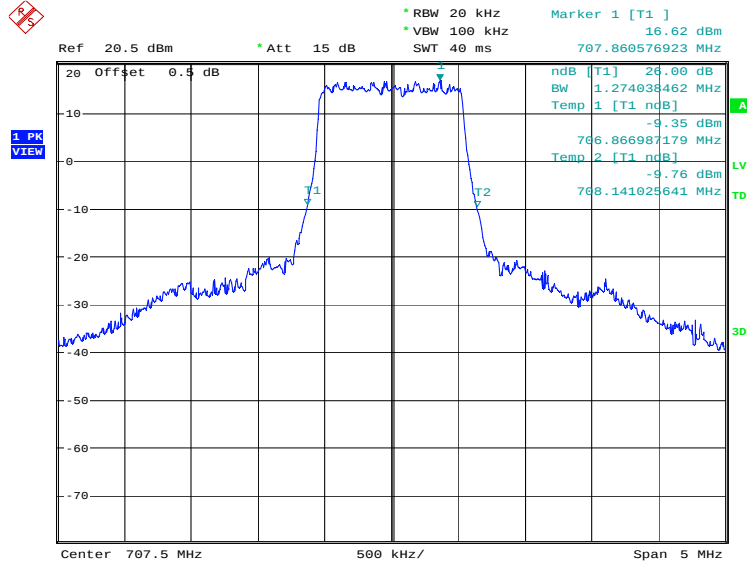


Date: 25.OCT.2021 15:08:10

LTE band 12, 1.4MHz (-26dBc)

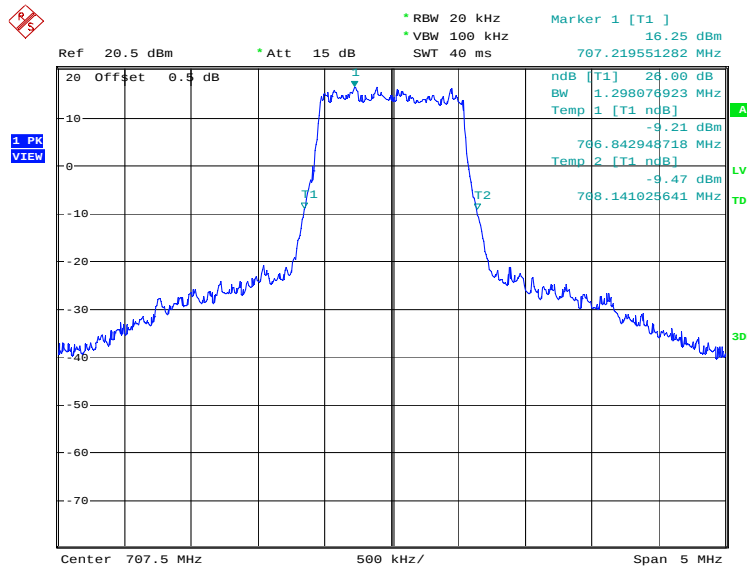
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	1274.04	1298.08

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



Date: 22.OCT.2021 18:10:37

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

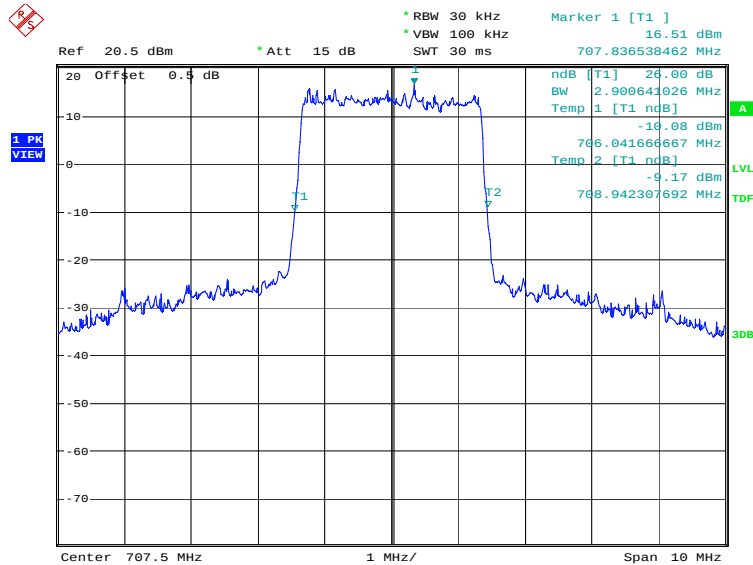


Date: 22.OCT.2021 18:11:30

LTE band 12, 3MHz (-26dBc)

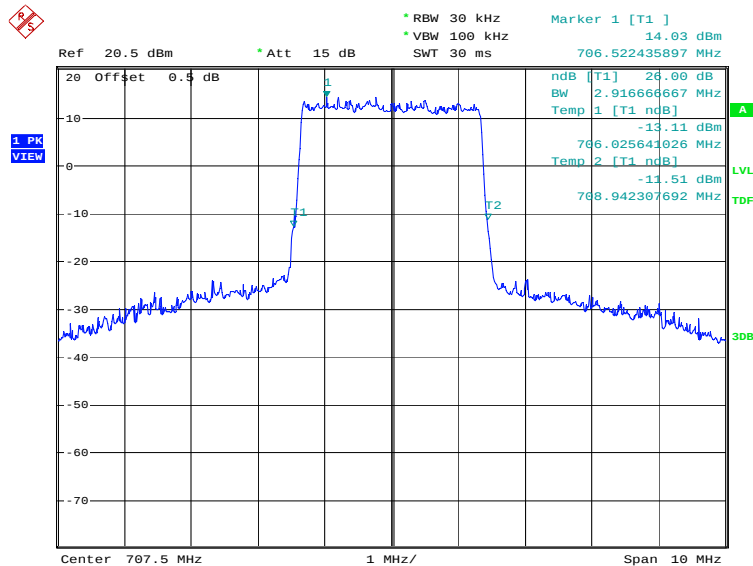
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	2900.64	2916.67

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



Date: 22.OCT.2021 18:12:25

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

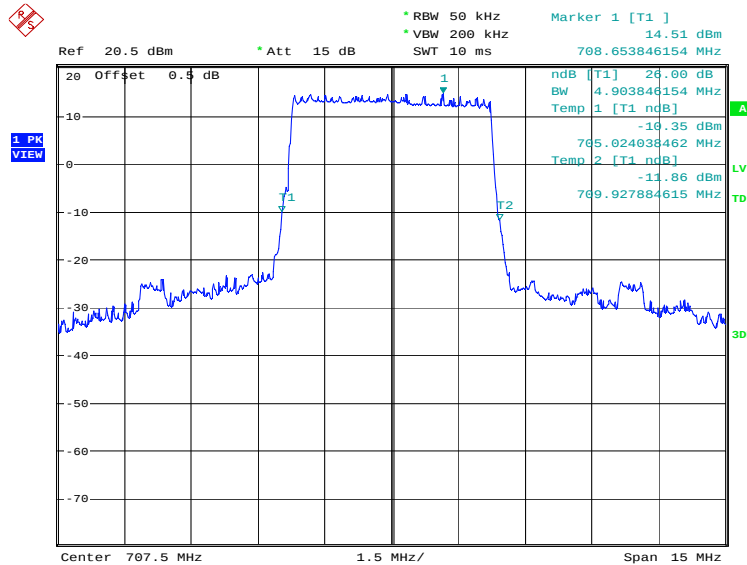


Date: 22.OCT.2021 18:13:18

LTE band 12, 5MHz (-26dBc)

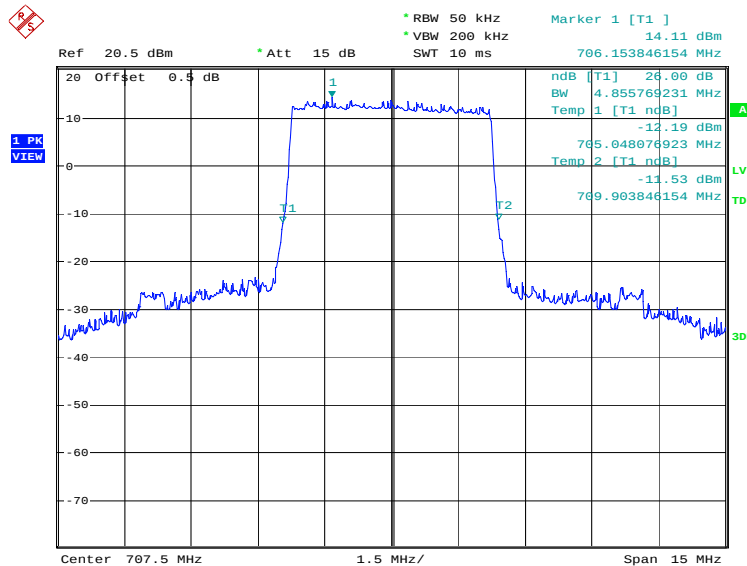
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	4903.85	4855.77

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



Date: 22.OCT.2021 18:14:13

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

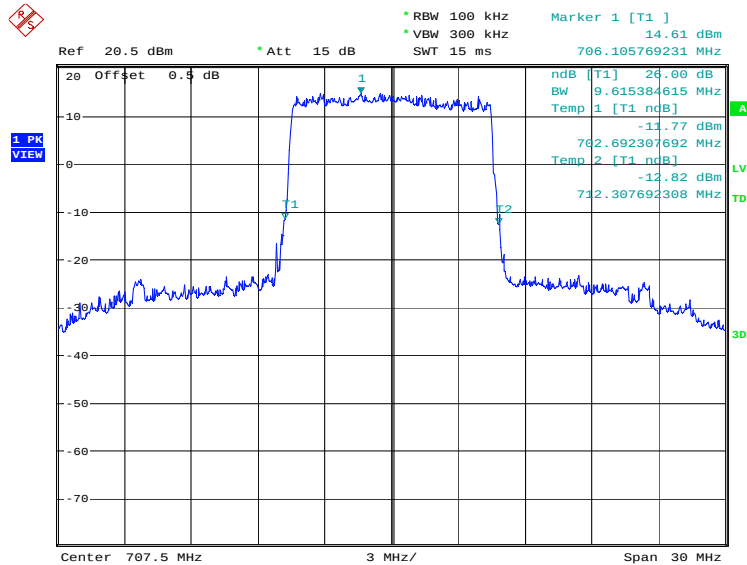


Date: 22.OCT.2021 18:15:06

LTE band 12, 10MHz (-26dBc)

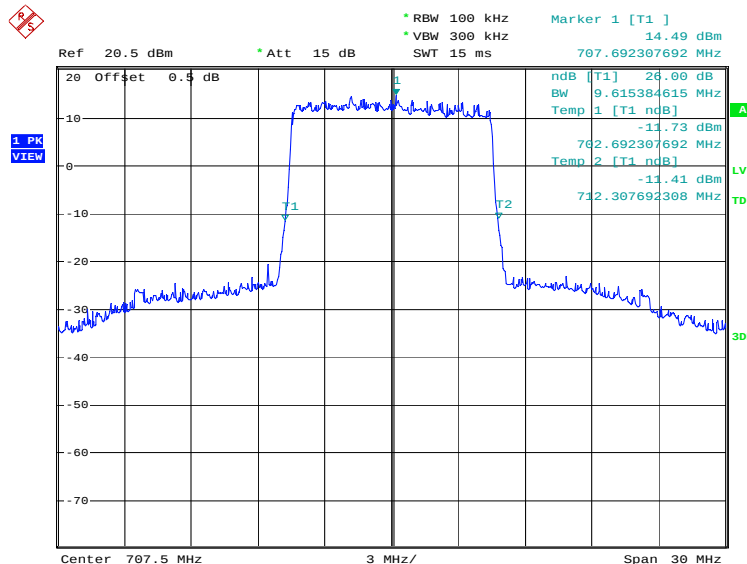
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	9615.38	9615.38

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



Date: 22.OCT.2021 18:16:00

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

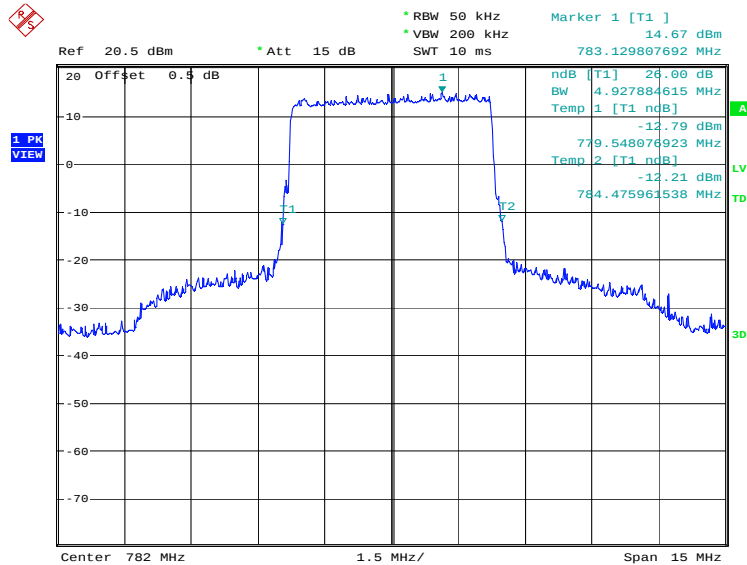


Date: 22.OCT.2021 18:16:53

LTE band 13, 5MHz (-26dBc)

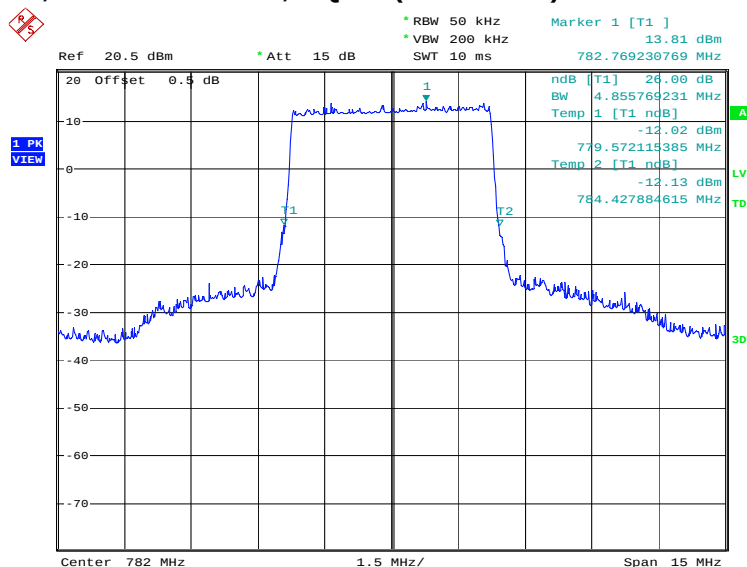
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	4927.88	4855.77

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



Date: 22.OCT.2021 18:17:49

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

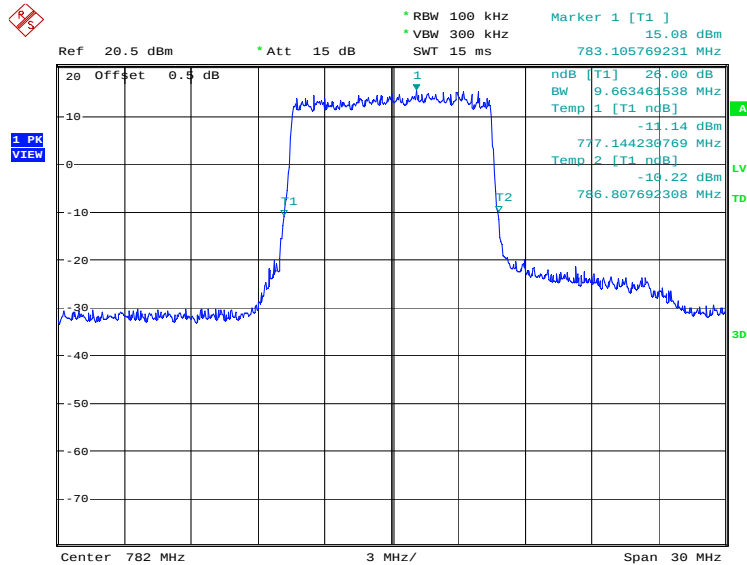


Date: 22.OCT.2021 18:18:42

LTE band 13, 10MHz (-26dBc)

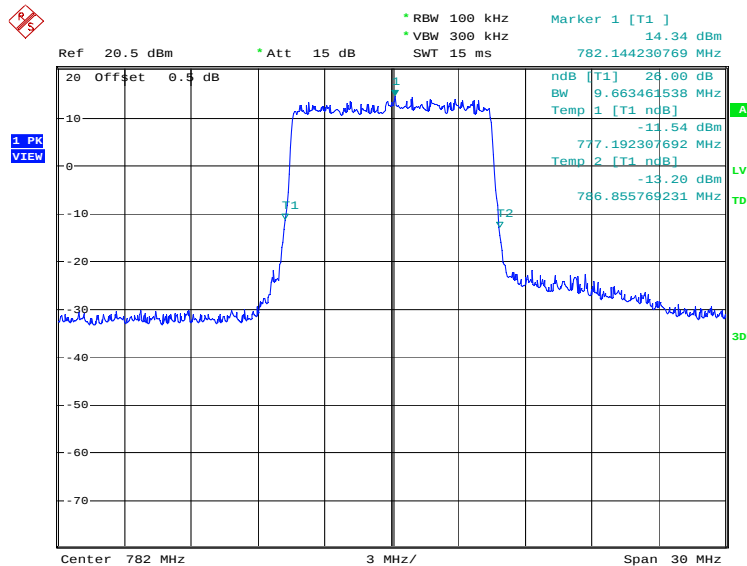
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	9663.46	9663.46

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



Date: 22.OCT.2021 18:19:36

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

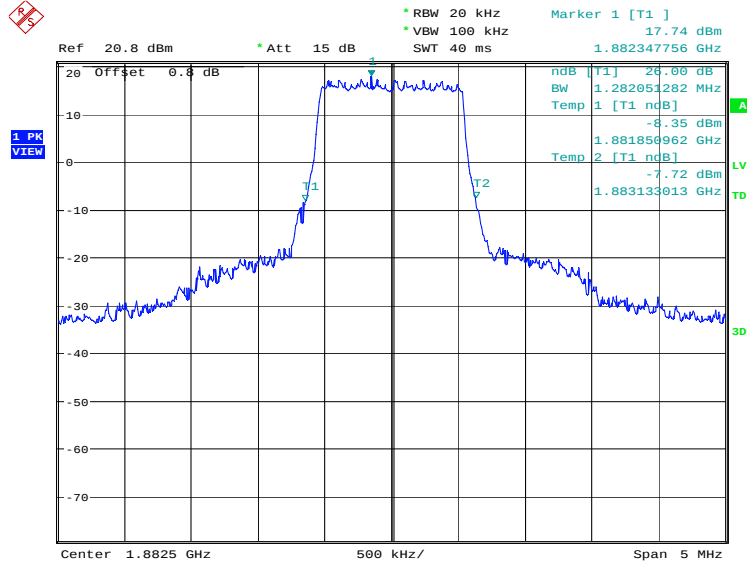


Date: 22.OCT.2021 18:20:29

LTE band 25, 1.4MHz (-26dBc)

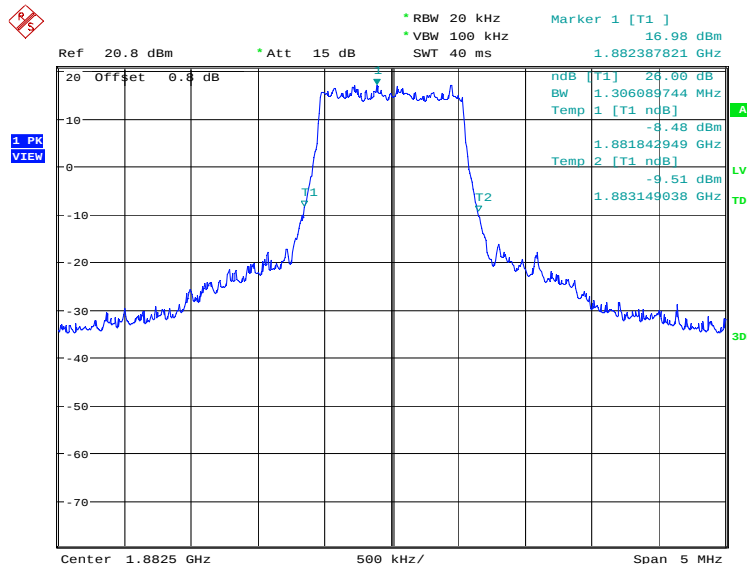
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	1282.05	1306.09

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



Date: 25.OCT.2021 09:57:35

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

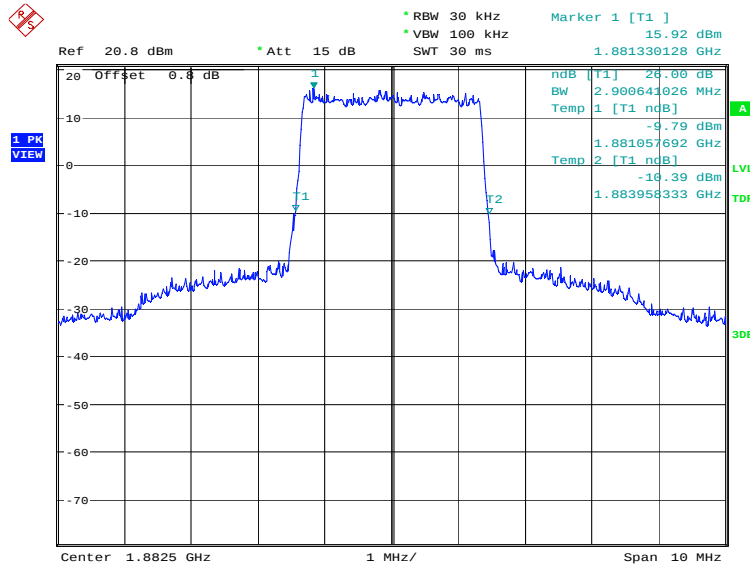


Date: 25.OCT.2021 09:58:28

LTE band 25, 3MHz (-26dBc)

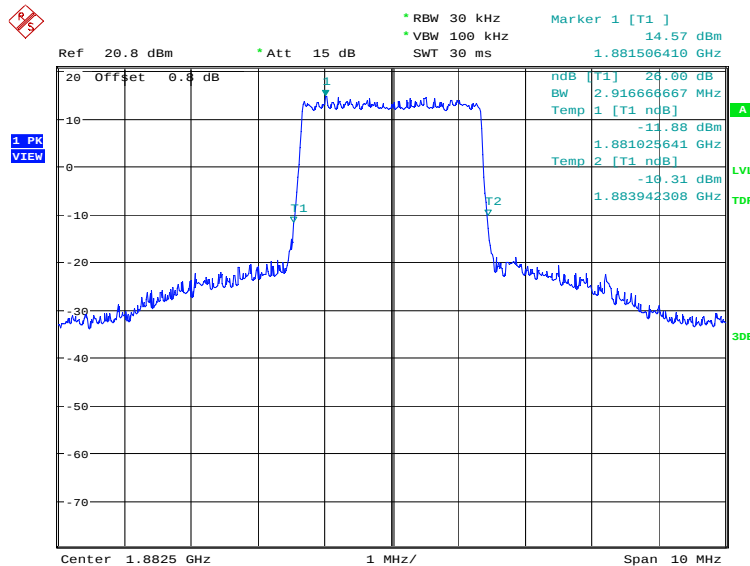
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	2900.64	2916.67

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



Date: 25.OCT.2021 09:59:23

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

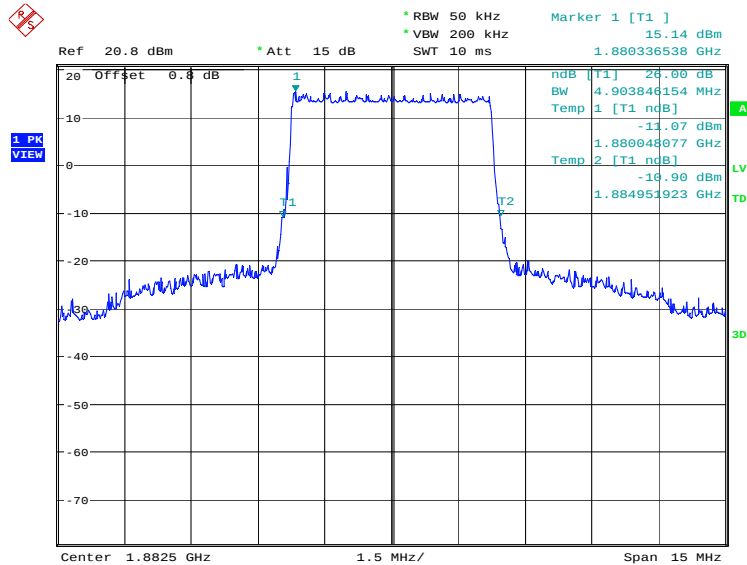


Date: 25.OCT.2021 10:00:16

LTE band 25, 5MHz (-26dBc)

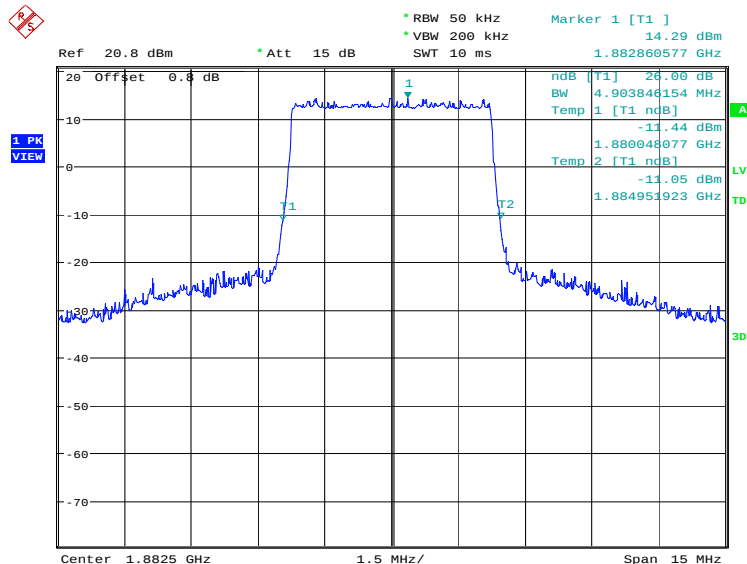
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	4903.85	4903.85

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



Date: 25.OCT.2021 10:01:11

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

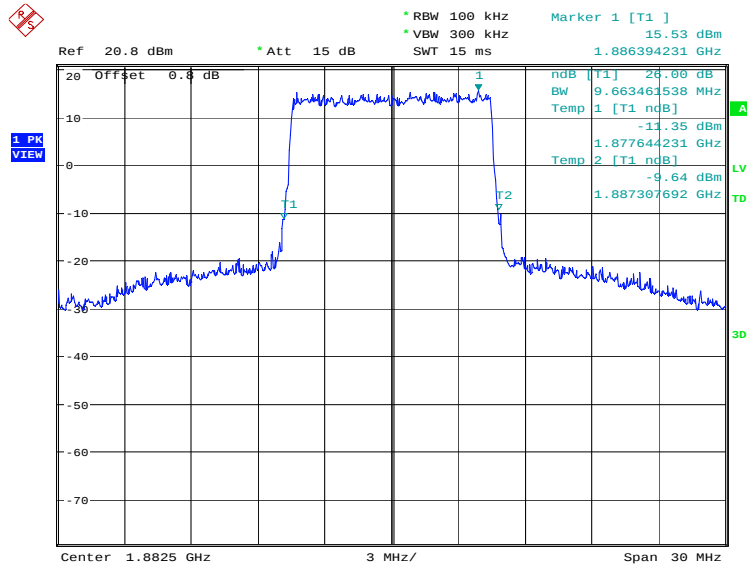


Date: 25.OCT.2021 10:02:04

LTE band 25, 10MHz (-26dBc)

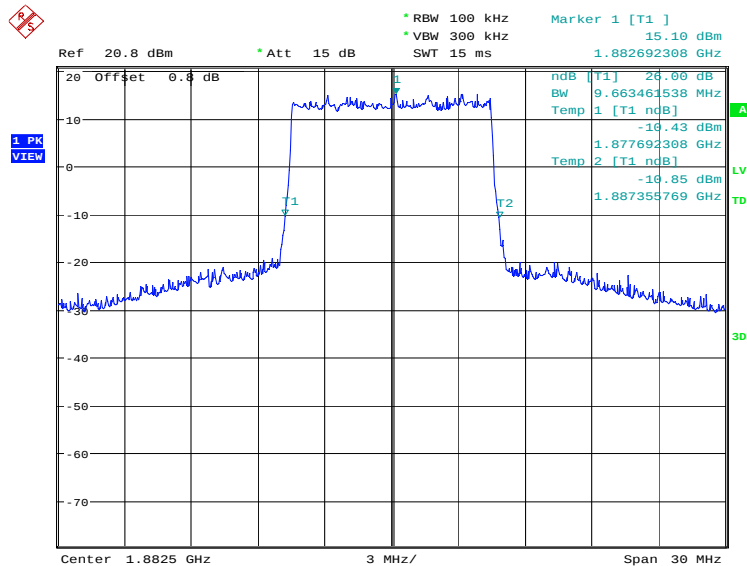
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	9663.46	9663.46

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



Date: 25.OCT.2021 10:02:59

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

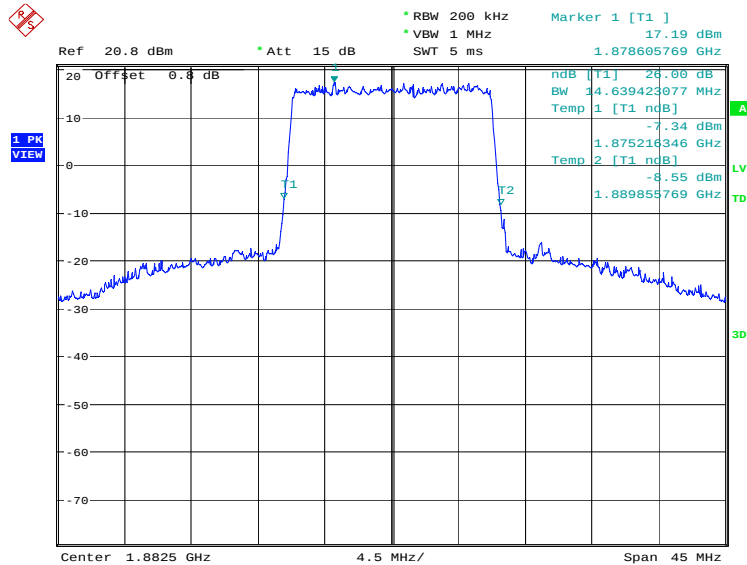


Date: 25.OCT.2021 10:03:52

LTE band 25, 15MHz (-26dBc)

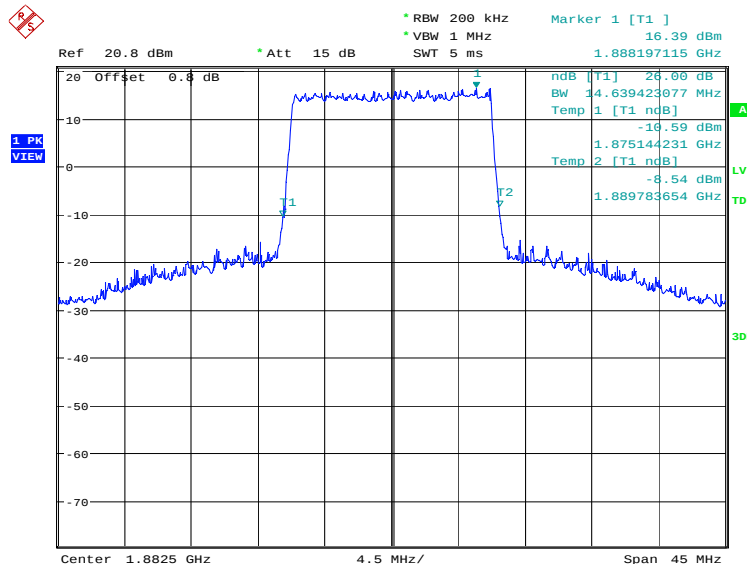
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	14639.42	14639.42

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



Date: 25.OCT.2021 10:04:47

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

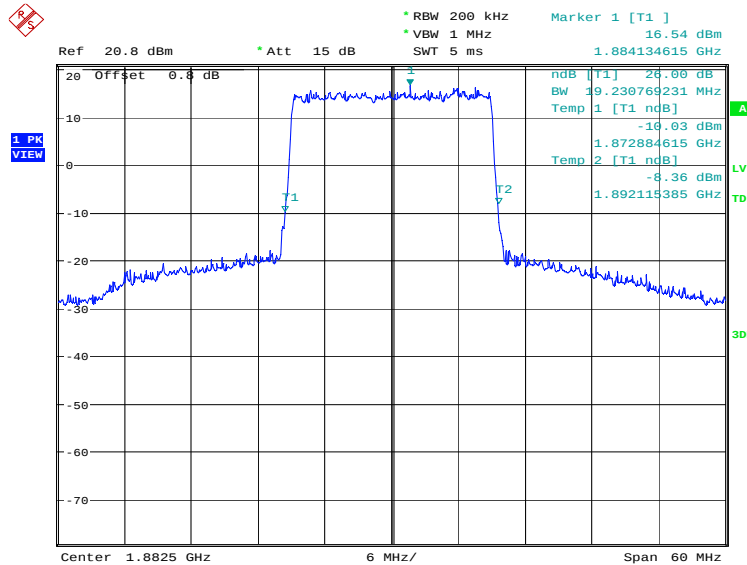


Date: 25.OCT.2021 10:05:40

LTE band 25, 20MHz (-26dBc)

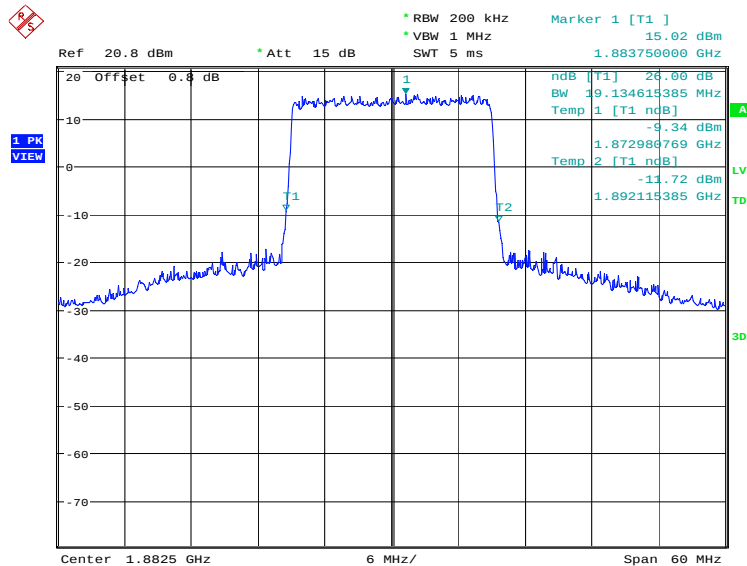
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	19230.77	19134.62

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



Date: 25.OCT.2021 10:06:35

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

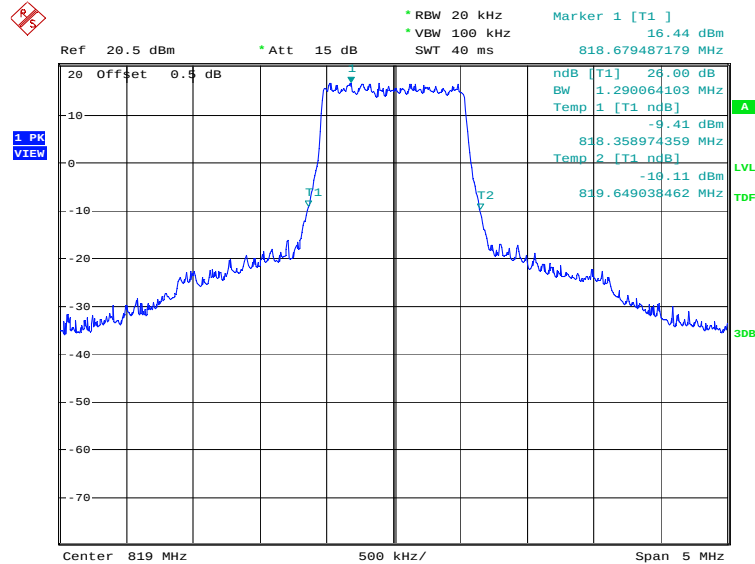


Date: 25.OCT.2021 10:07:28

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

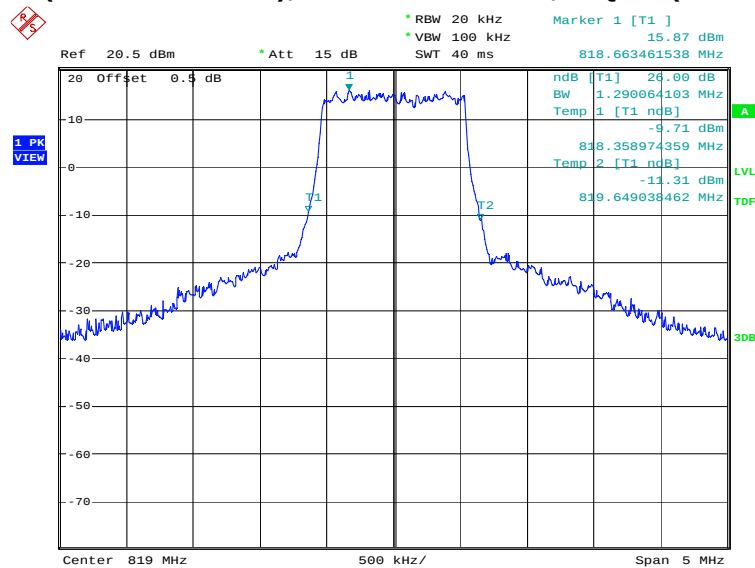
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	1290.06	1290.06

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



Date: 22.OCT.2021 18:31:06

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

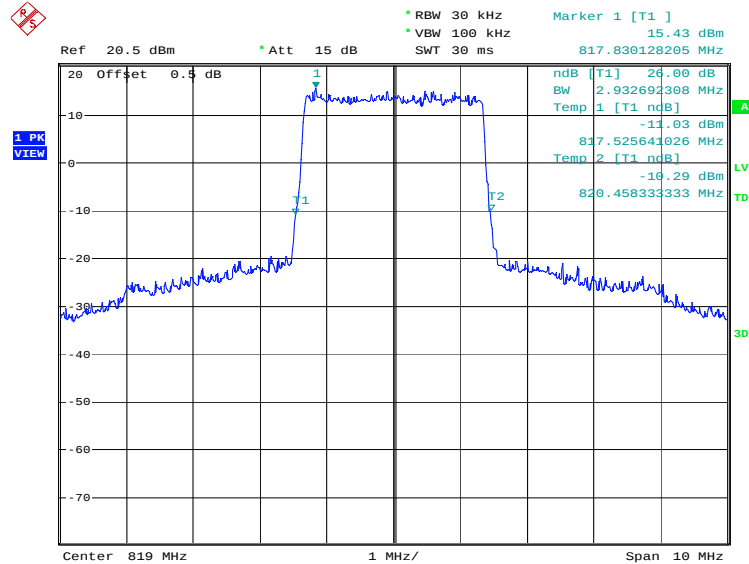


Date: 22.OCT.2021 18:31:59

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

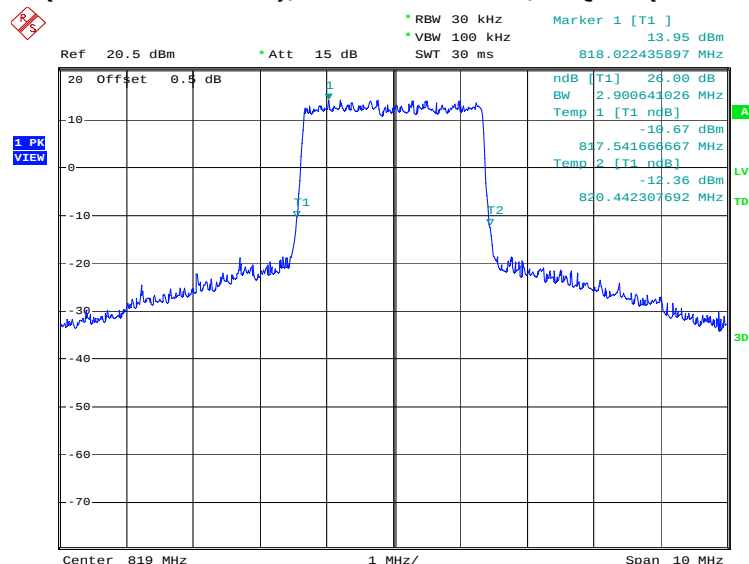
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	2932.69	2900.64

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



Date: 22.OCT.2021 18:32:54

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

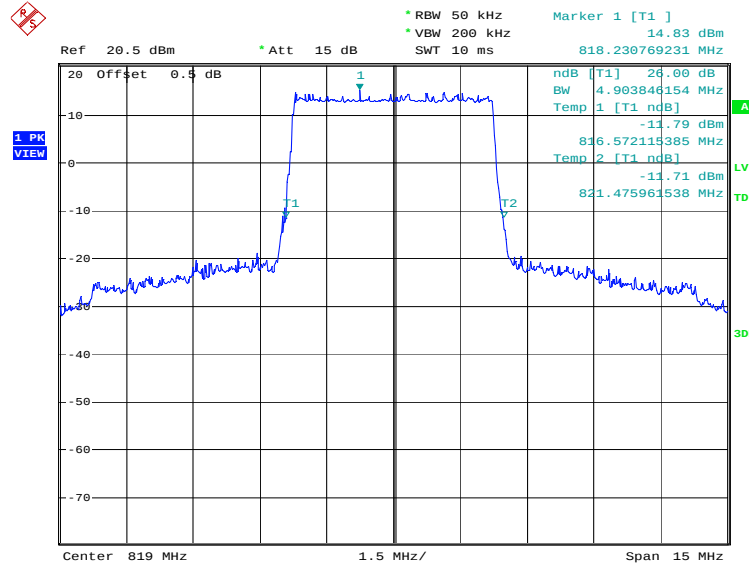


Date: 22.OCT.2021 18:33:47

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

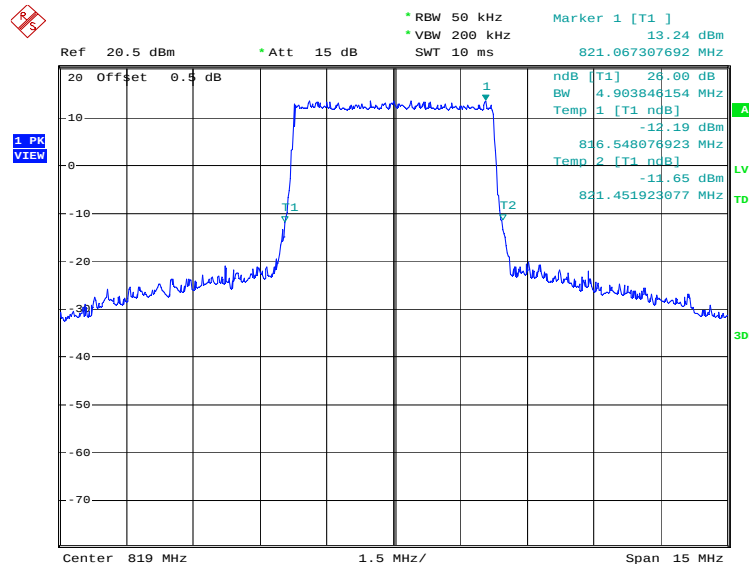
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	4903.85	4903.85

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



Date: 22.OCT.2021 18:34:41

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, 16QAM (-26dBc BW)

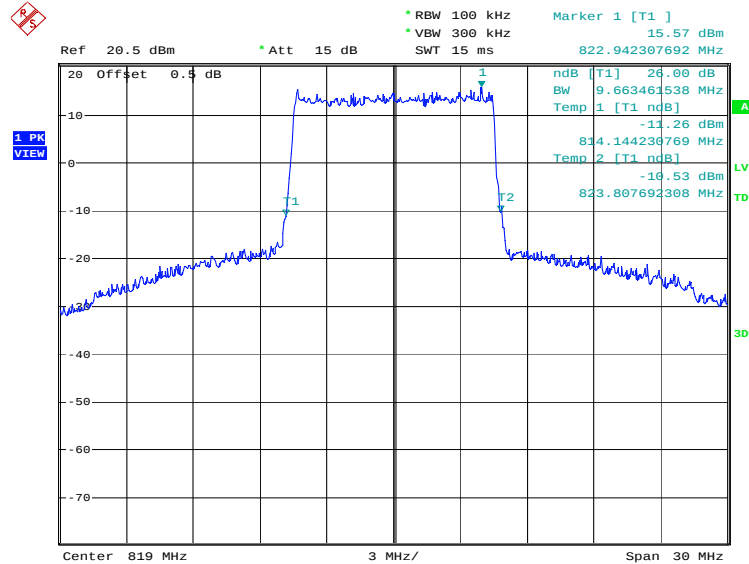


Date: 22.OCT.2021 18:35:35

LTE band 26(814MHz~824MHz), 10MHz (-26dBc)

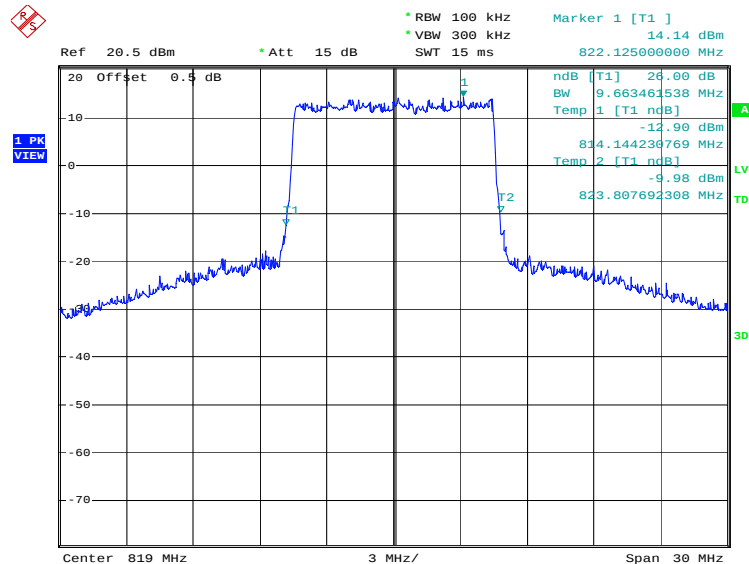
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	9663.46	9663.46

LTE band 26(814MHz~824MHz), 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 22.OCT.2021 18:36:29

LTE band 26(814MHz~824MHz), 10MHz Bandwidth, 16QAM (-26dBc BW)

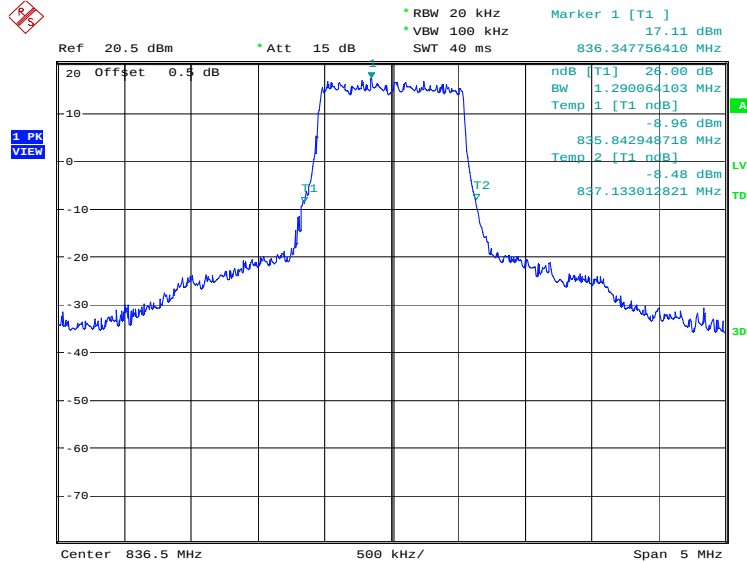


Date: 22.OCT.2021 18:37:23

LTE band 26(824MHz~849MHz), 1.4MHz (-26dBc)

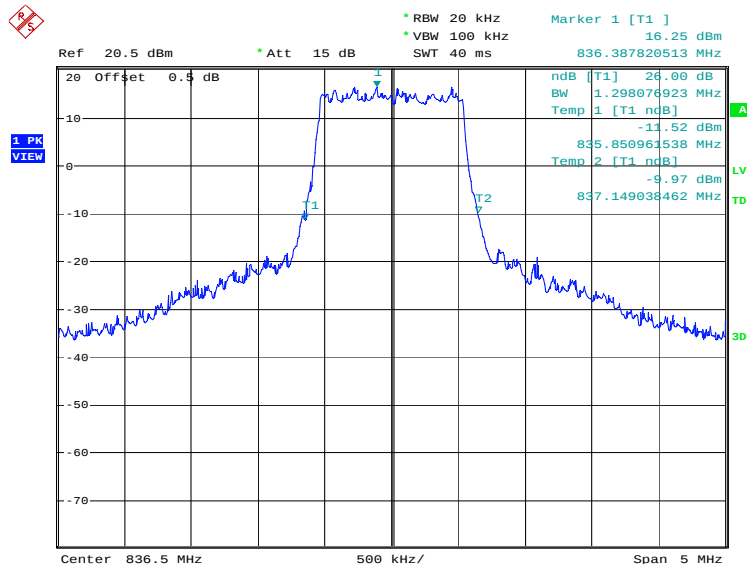
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	1290.06	1298.08

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, QPSK (-26dB BW)



Date: 22.OCT.2021 18:21:26

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, 16QAM (-26dB BW)

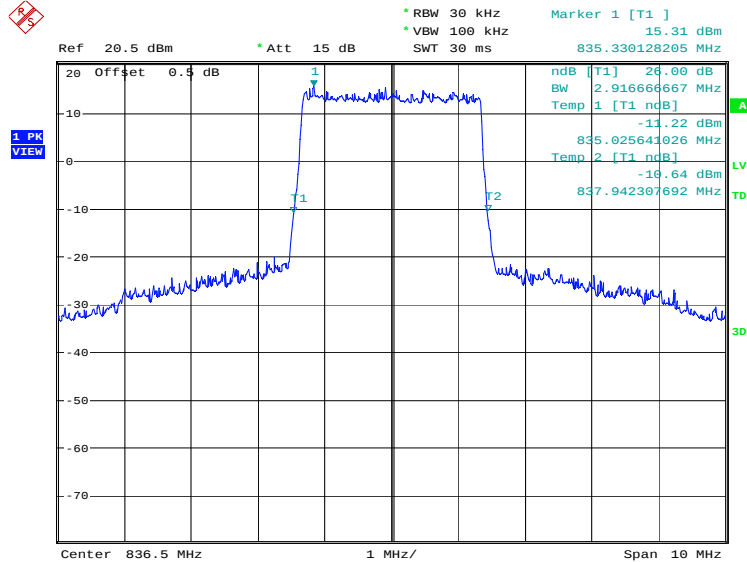


Date: 22.OCT.2021 18:22:19

LTE band 26(824MHz~849MHz), 3MHz (-26dBc)

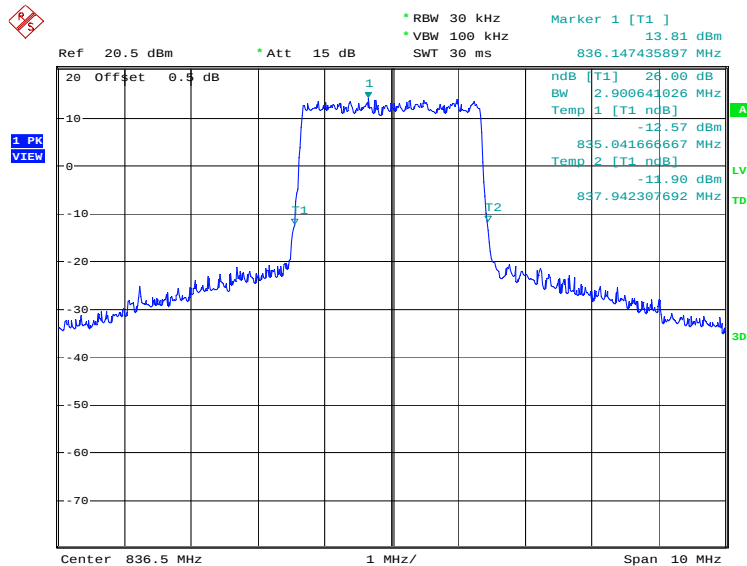
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	2916.67	2900.64

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 22.OCT.2021 18:23:14

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, 16QAM (-26dBc BW)

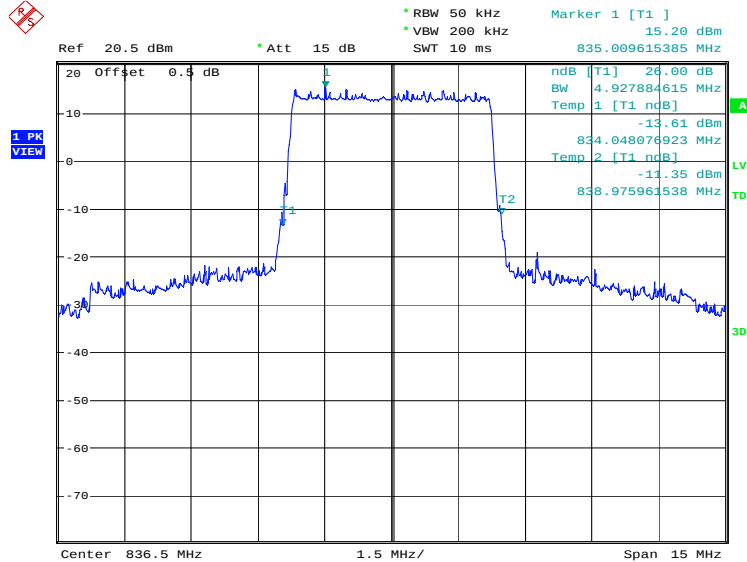


Date: 22.OCT.2021 18:24:07

LTE band 26(824MHz~849MHz), 5MHz (-26dBc)

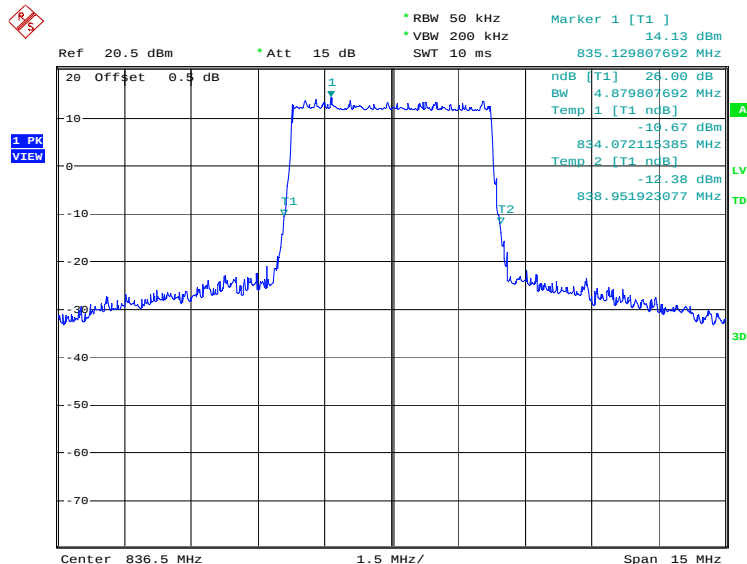
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	4927.88	4879.81

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 22.OCT.2021 18:25:01

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, 16QAM (-26dBc BW)

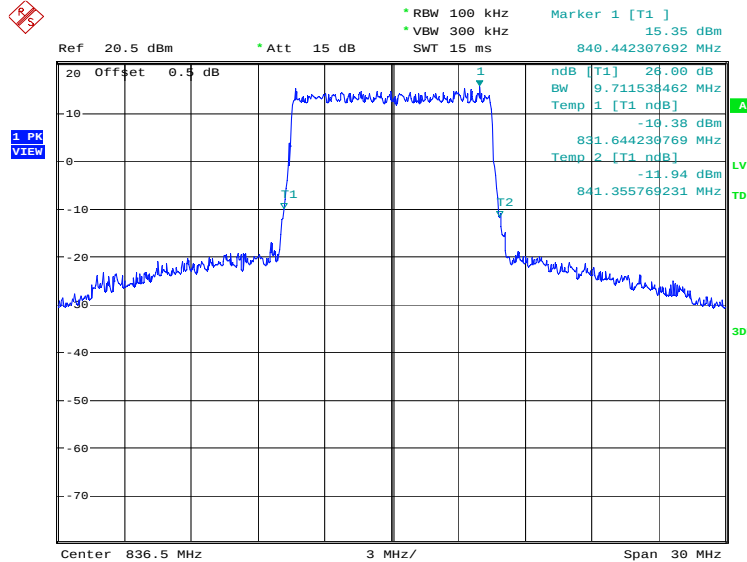


Date: 22.OCT.2021 18:25:54

LTE band 26(824MHz~849MHz), 10MHz (-26dBc)

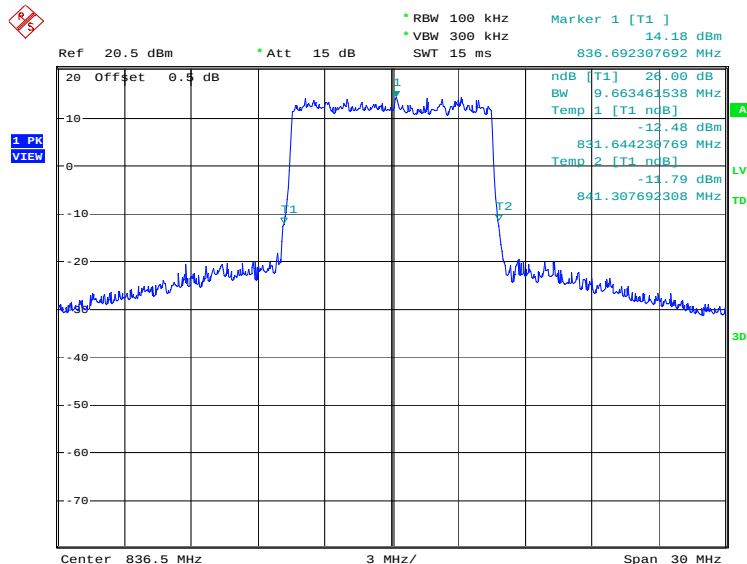
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	9711.54	9663.46

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 22.OCT.2021 18:26:49

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, 16QAM (-26dBc BW)

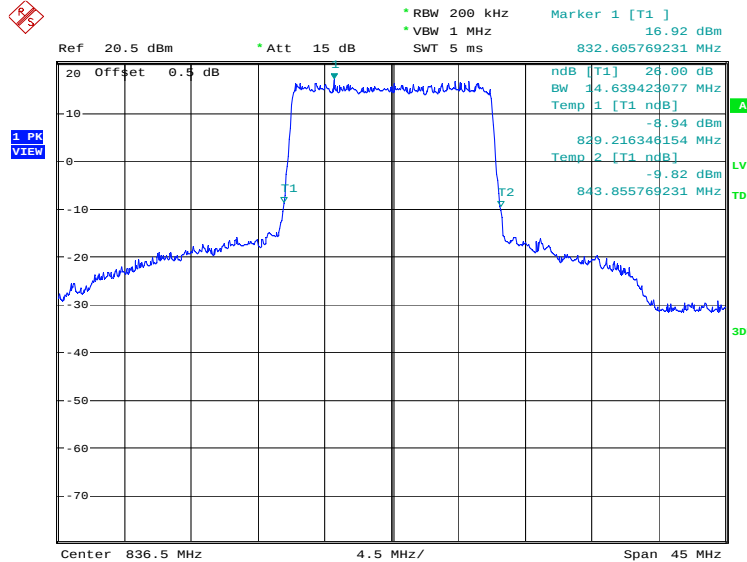


Date: 22.OCT.2021 18:27:42

LTE band 26(824MHz~849MHz), 15MHz (-26dBc)

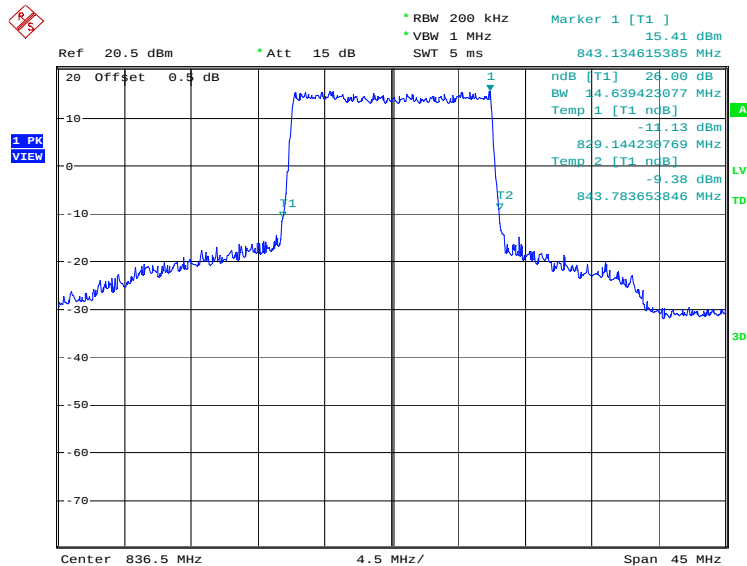
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	14639.42	14639.42

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 22.OCT.2021 18:28:37

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, 16QAM (-26dBc BW)

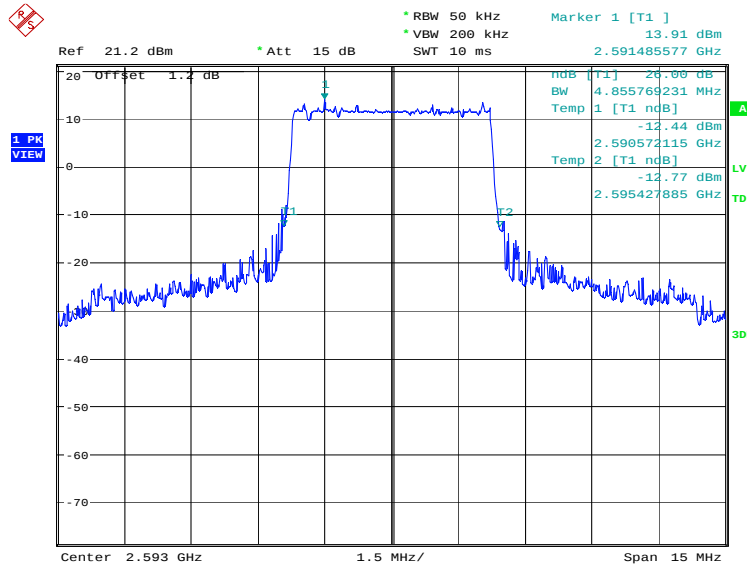


Date: 22.OCT.2021 18:29:30

LTE band 41, 5MHz (-26dBc)

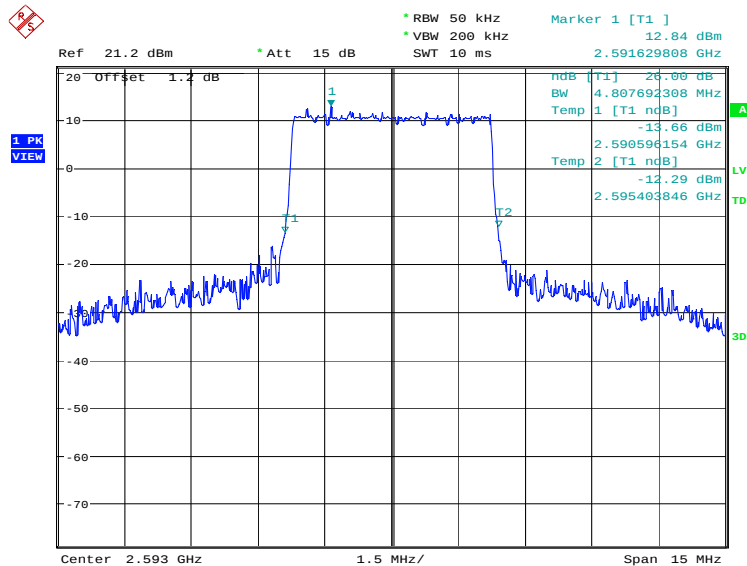
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	4855.77	4807.69

LTE band 41, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.OCT.2021 15:09:49

LTE band 41, 5MHz Bandwidth, 16QAM (-26dBc BW)

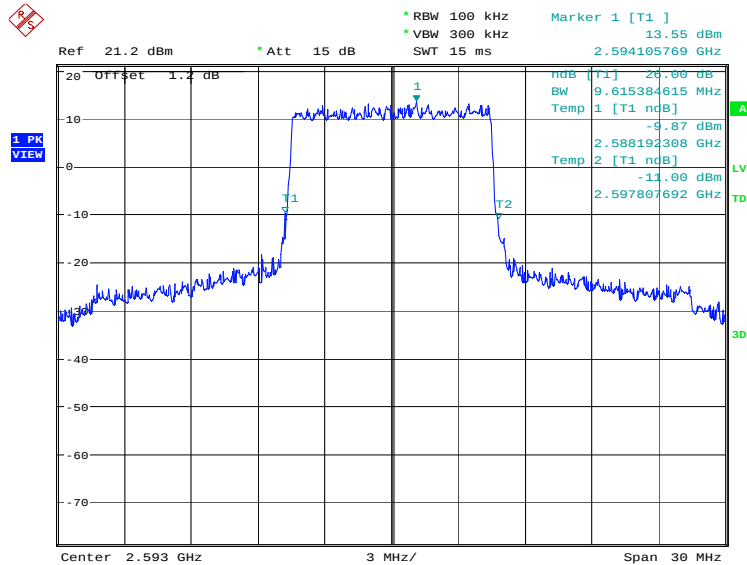


Date: 25.OCT.2021 15:10:42

LTE band 41, 10MHz (-26dBc)

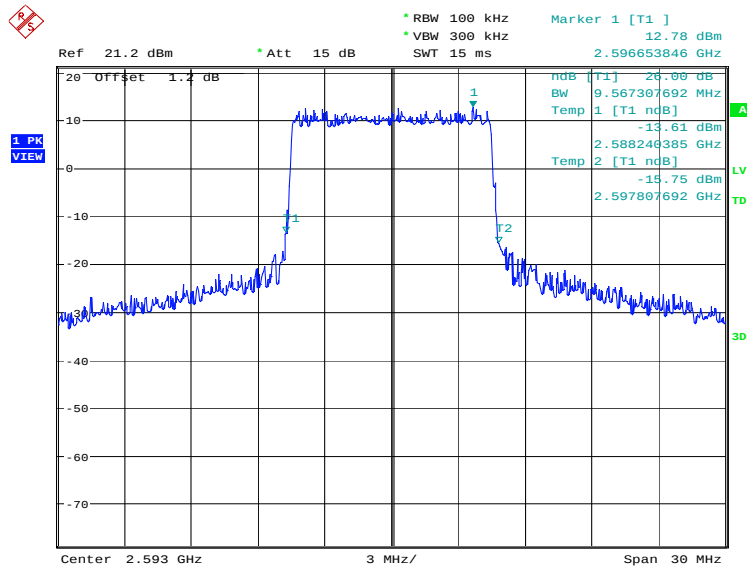
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	9615.38	9567.31

LTE band 41, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.OCT.2021 15:11:37

LTE band 41, 10MHz Bandwidth,16QAM (-26dBc BW)

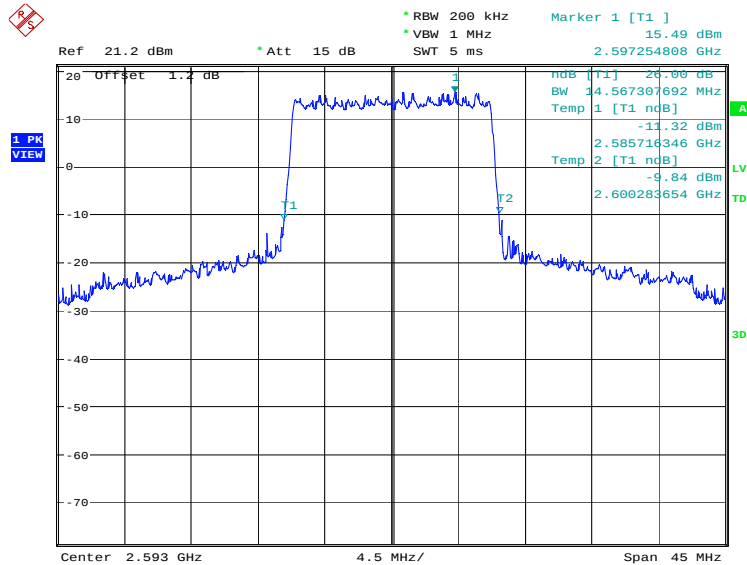


Date: 25.OCT.2021 15:12:30

LTE band 41, 15MHz (-26dBc)

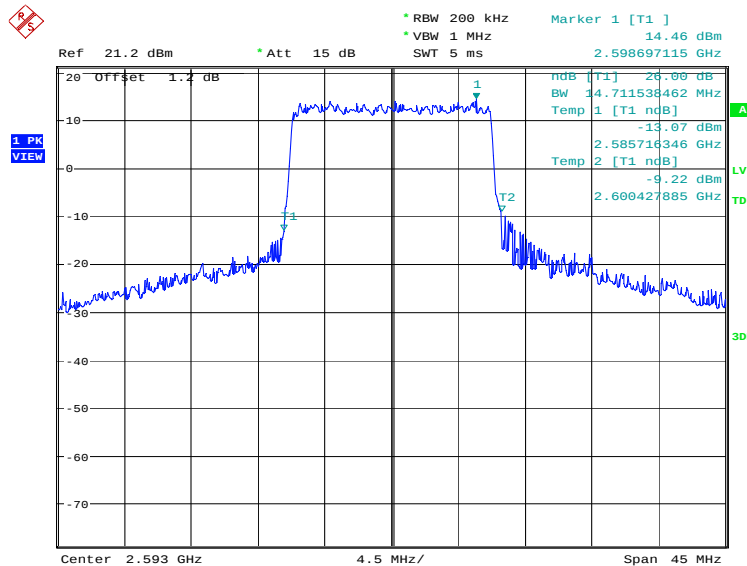
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	14567.31	14711.54

LTE band 41, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.OCT.2021 15:13:25

LTE band 41, 15MHz Bandwidth,16QAM (-26dBc BW)

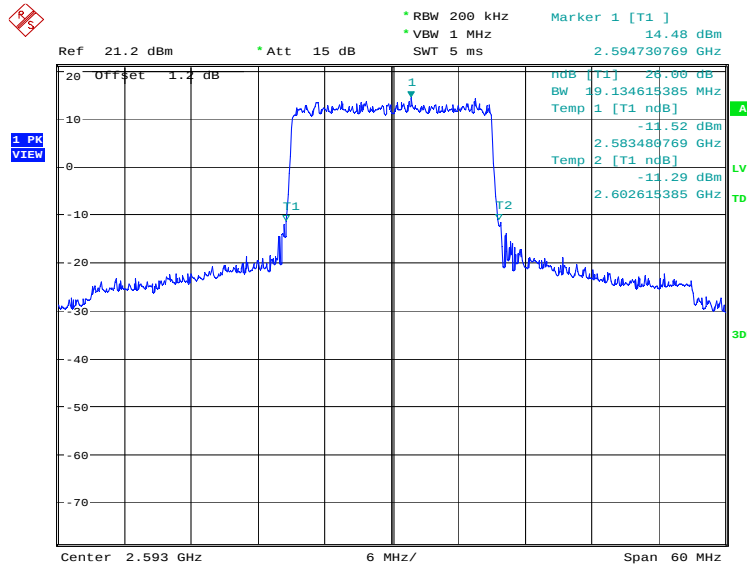


Date: 25.OCT.2021 15:14:18

LTE band 41, 20MHz (-26dBc)

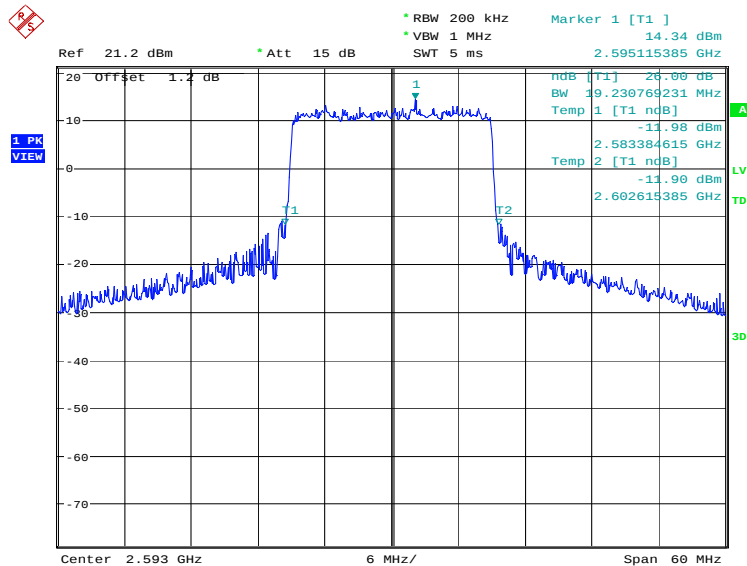
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	19134.62	19230.77

LTE band 41, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.OCT.2021 15:15:14

LTE band 41, 20MHz Bandwidth,16QAM (-26dBc BW)

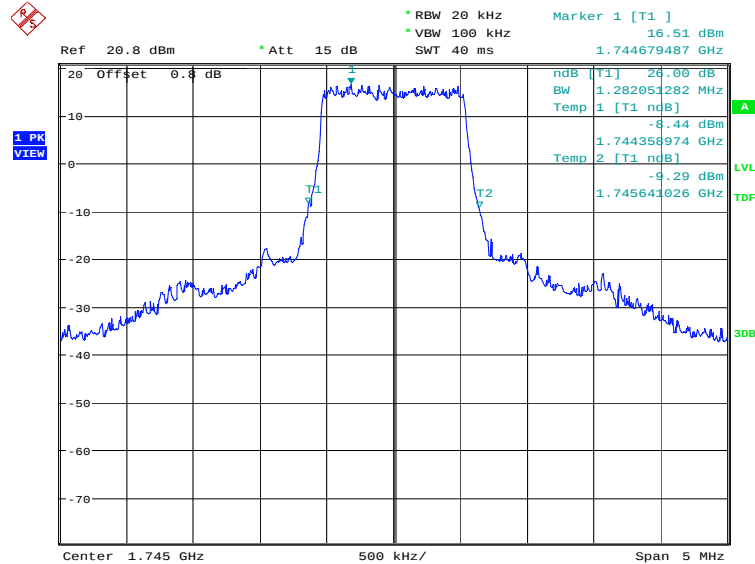


Date: 25.OCT.2021 15:16:06

LTE band 66, 1.4MHz (-26dBc)

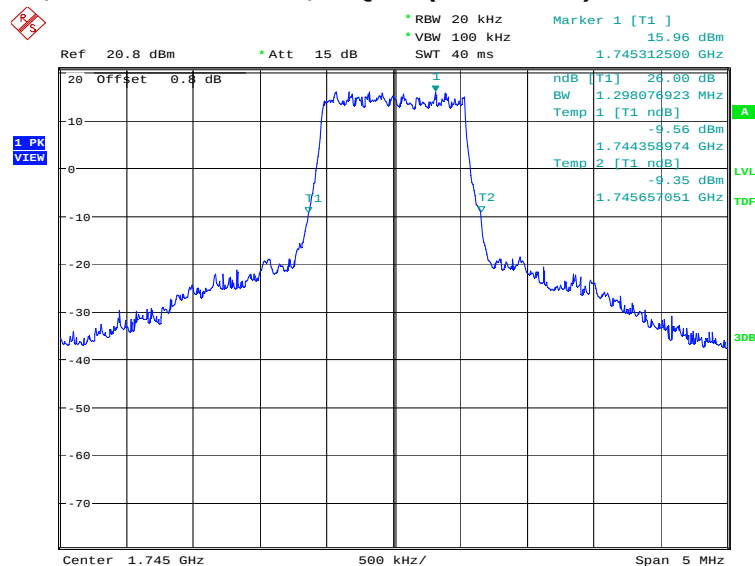
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	1282.05	1298.08

LTE band 66, 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.OCT.2021 10:08:24

LTE band 66, 1.4MHz Bandwidth, 16QAM (-26dBc BW)

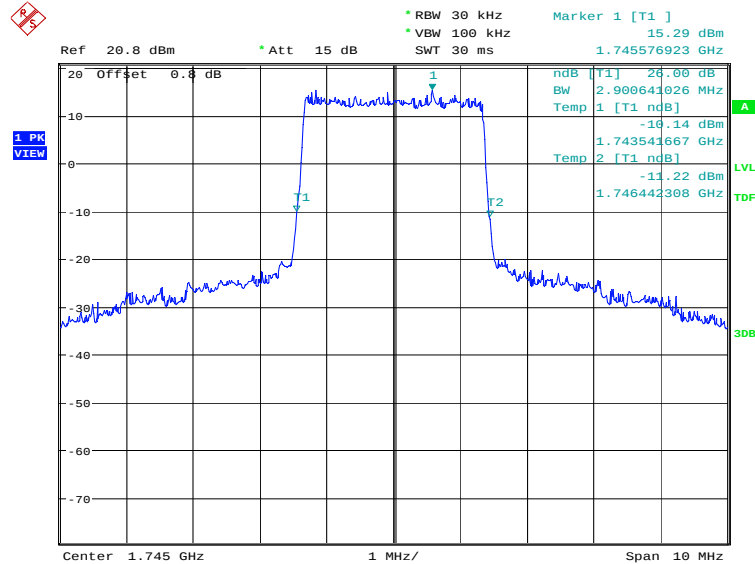


Date: 25.OCT.2021 10:09:17

LTE band 66, 3MHz (-26dBc)

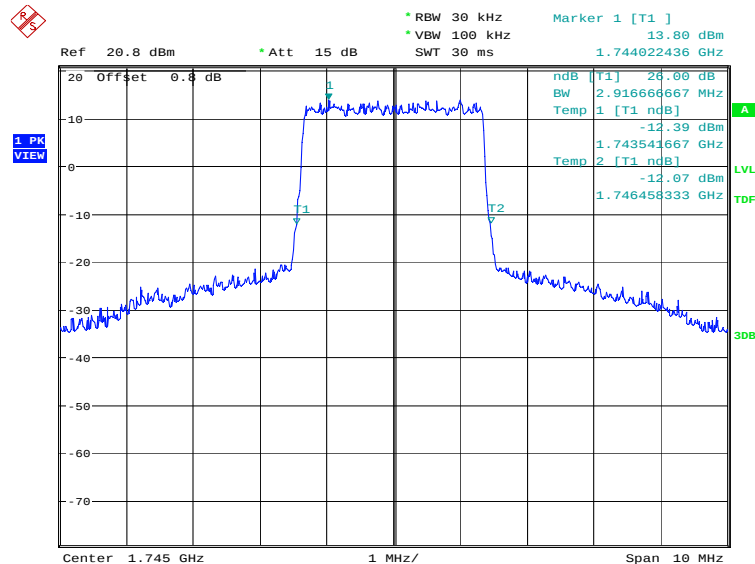
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	2900.64	2916.67

LTE band 66, 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.OCT.2021 10:10:12

LTE band 66, 3MHz Bandwidth, 16QAM (-26dBc BW)

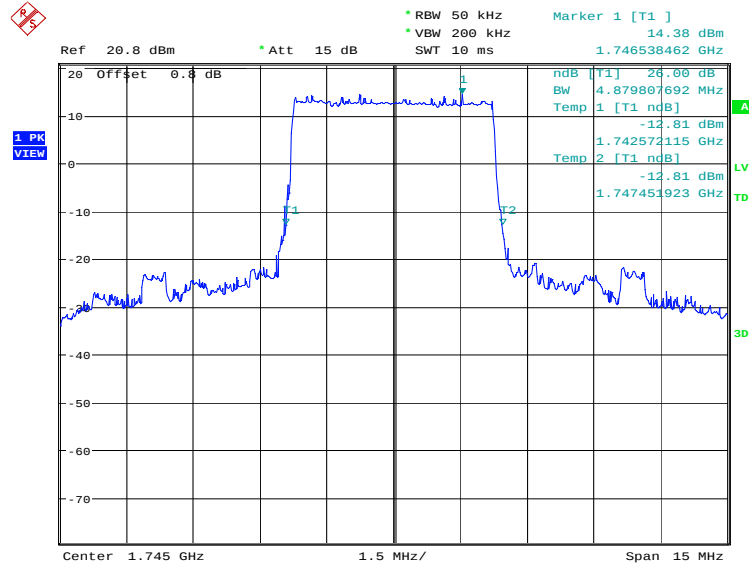


Date: 25.OCT.2021 10:11:05

LTE band 66, 5MHz (-26dBc)

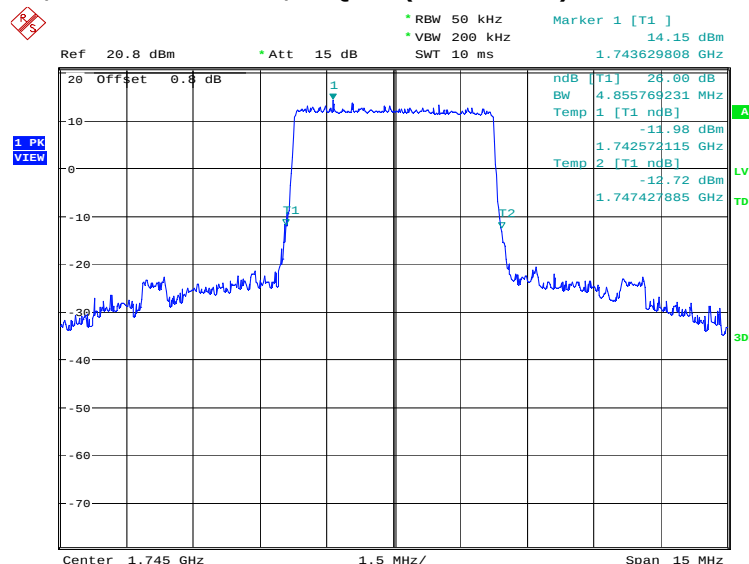
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	4879.81	4855.77

LTE band 66, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.OCT.2021 10:11:59

LTE band 66, 5MHz Bandwidth, 16QAM (-26dBc BW)

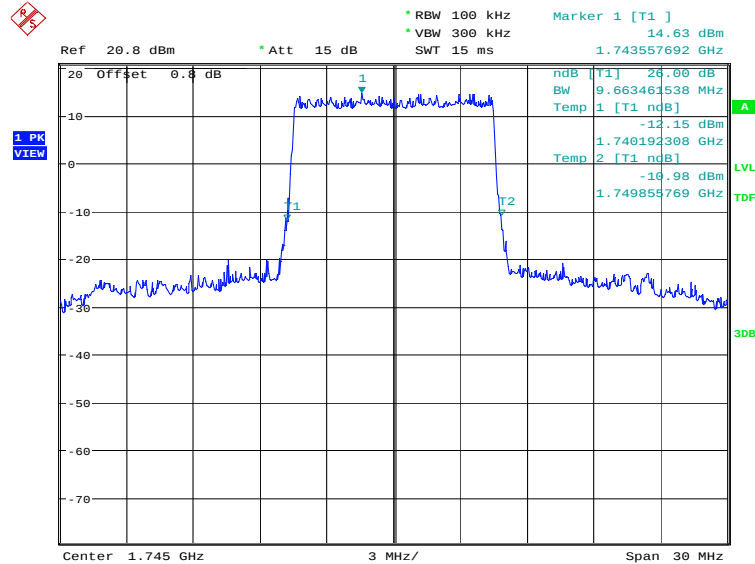


Date: 25.OCT.2021 10:12:53

LTE band 66, 10MHz (-26dBc)

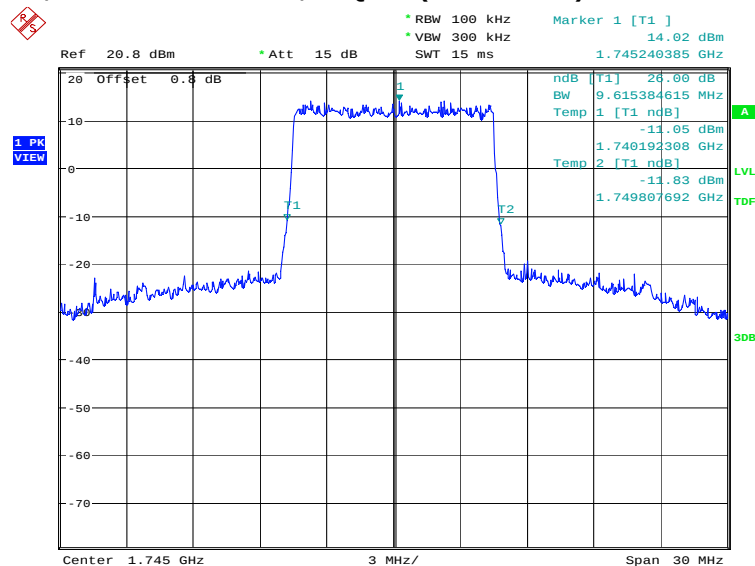
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	9663.46	9615.38

LTE band 66, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.OCT.2021 10:13:47

LTE band 66, 10MHz Bandwidth, 16QAM (-26dBc BW)

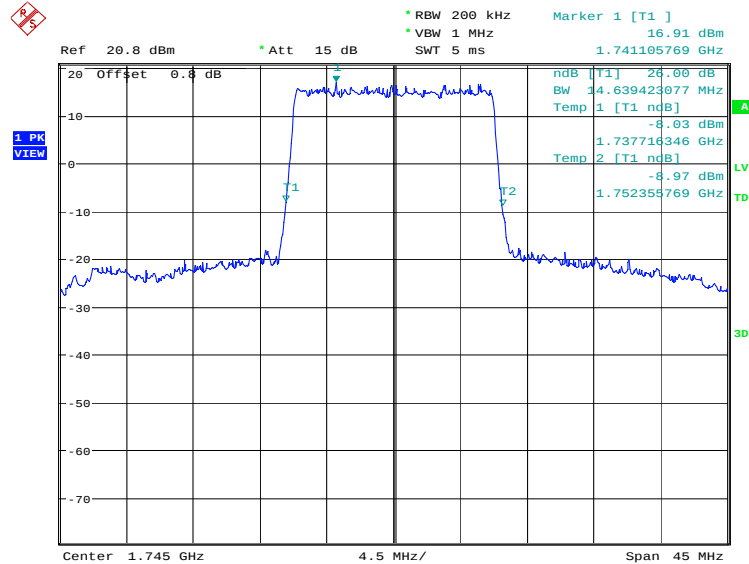


Date: 25.OCT.2021 10:14:39

LTE band 66, 15MHz (-26dBc)

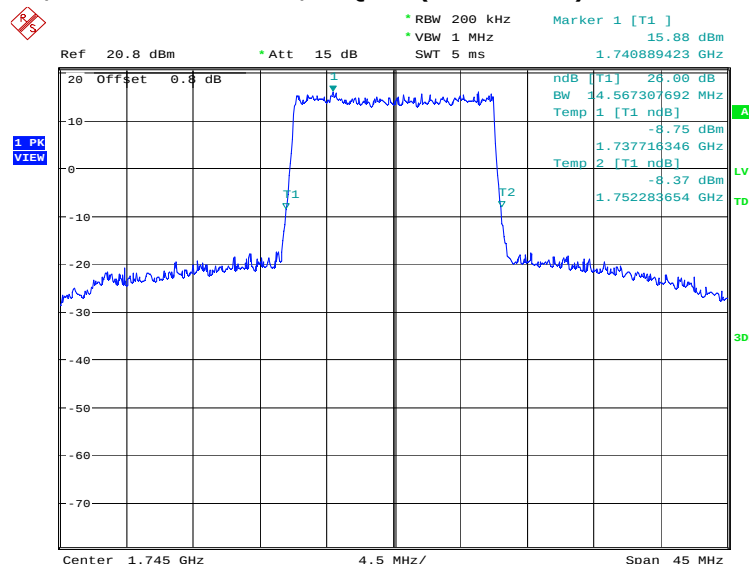
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	14639.42	14567.31

LTE band 66, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.OCT.2021 10:15:34

LTE band 66, 15MHz Bandwidth, 16QAM (-26dBc BW)

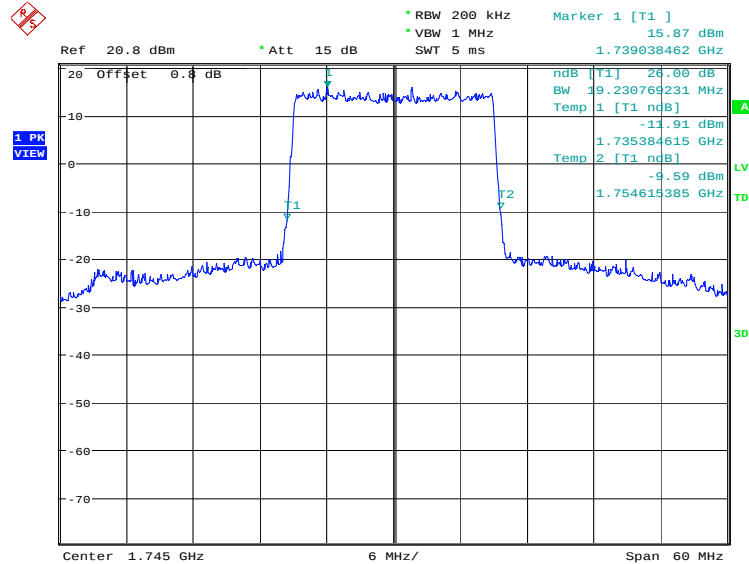


Date: 25.OCT.2021 10:16:26

LTE band 66, 20MHz (-26dBc)

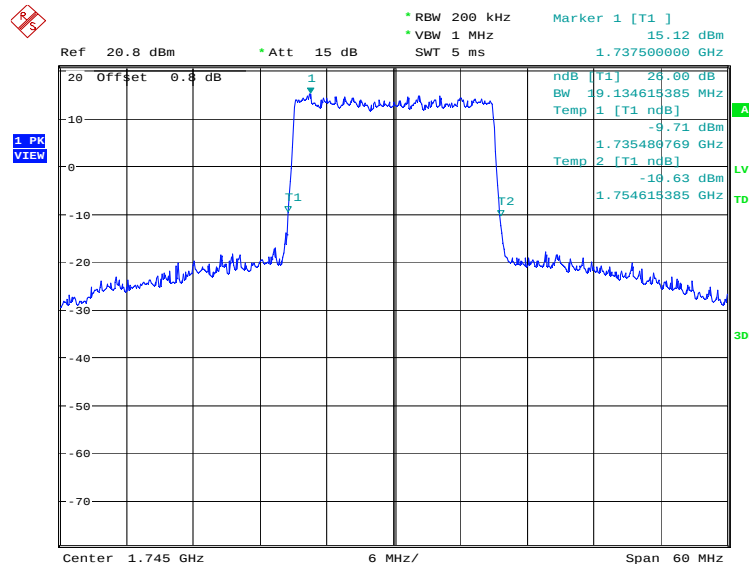
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	19230.77	19134.62

LTE band 66, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.OCT.2021 10:17:21

LTE band 66, 20MHz Bandwidth, 16QAM (-26dBc BW)

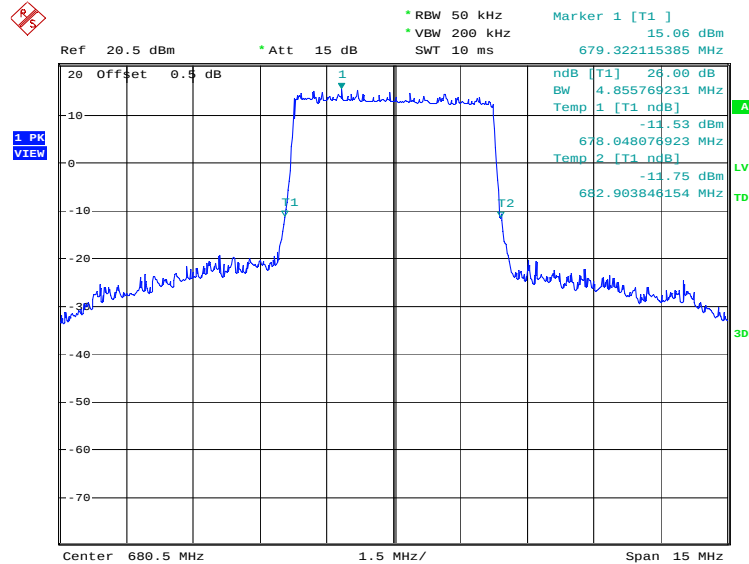


Date: 25.OCT.2021 10:18:13

LTE band 71, 5MHz (-26dBc)

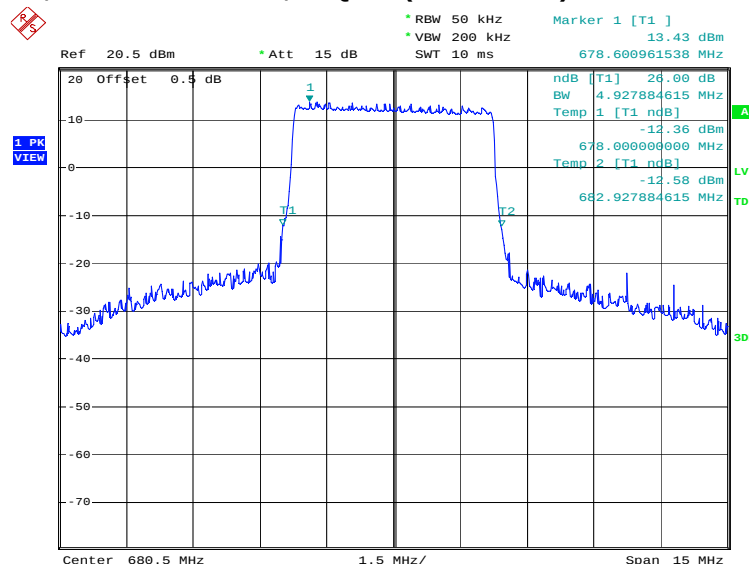
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	4855.77	4927.88

LTE band 71, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 22.OCT.2021 18:02:42

LTE band 71, 5MHz Bandwidth, 16QAM (-26dBc BW)

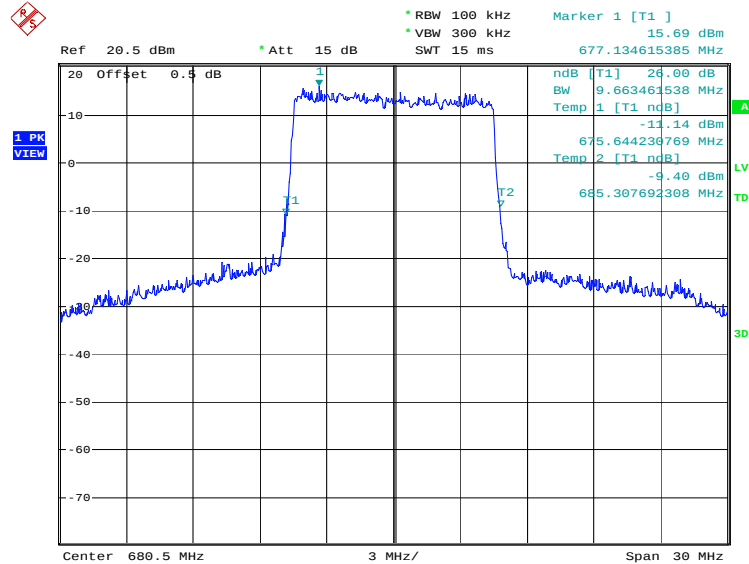


Date: 22.OCT.2021 18:03:35

LTE band 71, 10MHz (-26dBc)

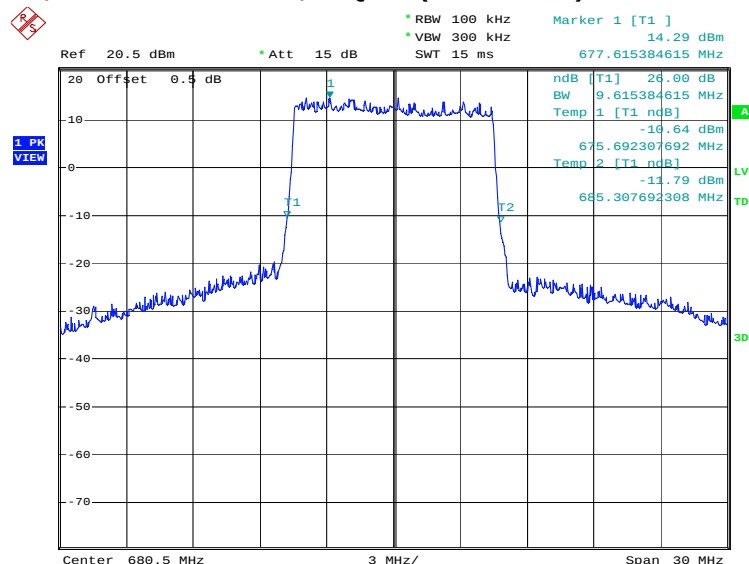
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	9663.46	9615.38

LTE band 71, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 22.OCT.2021 18:04:30

LTE band 71, 10MHz Bandwidth, 16QAM (-26dBc BW)

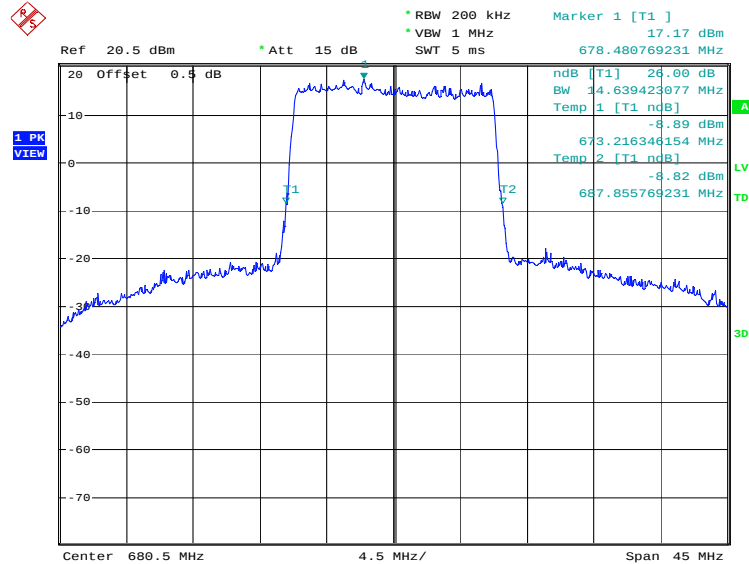


Date: 22.OCT.2021 18:05:22

LTE band 71, 15MHz (-26dBc)

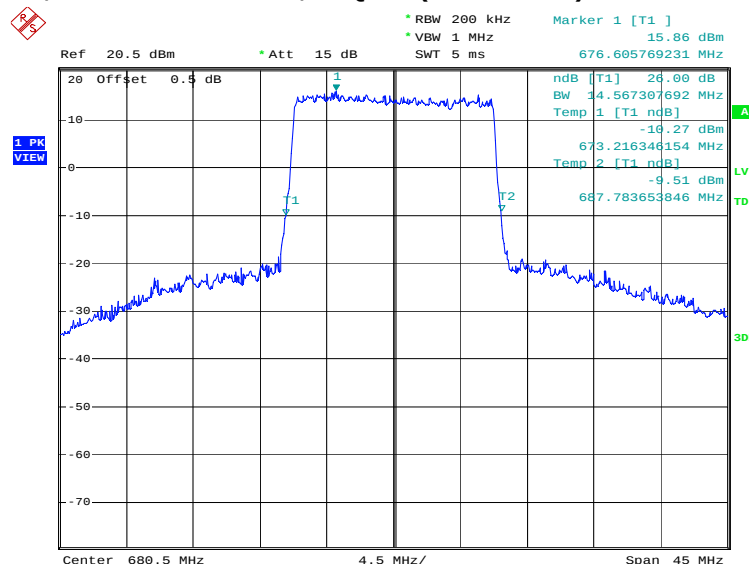
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	14639.42	14567.31

LTE band 71, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 22.OCT.2021 18:06:17

LTE band 71, 15MHz Bandwidth, 16QAM (-26dBc BW)

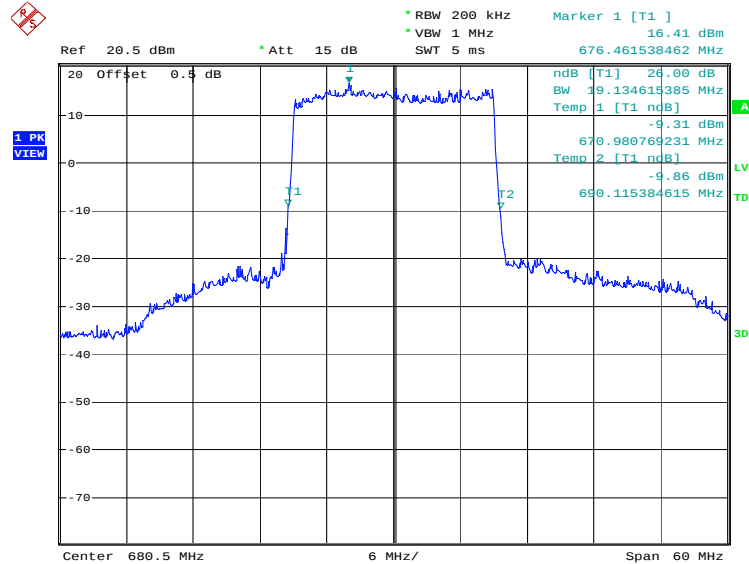


Date: 22.OCT.2021 18:07:10

LTE band 71, 20MHz (-26dBc)

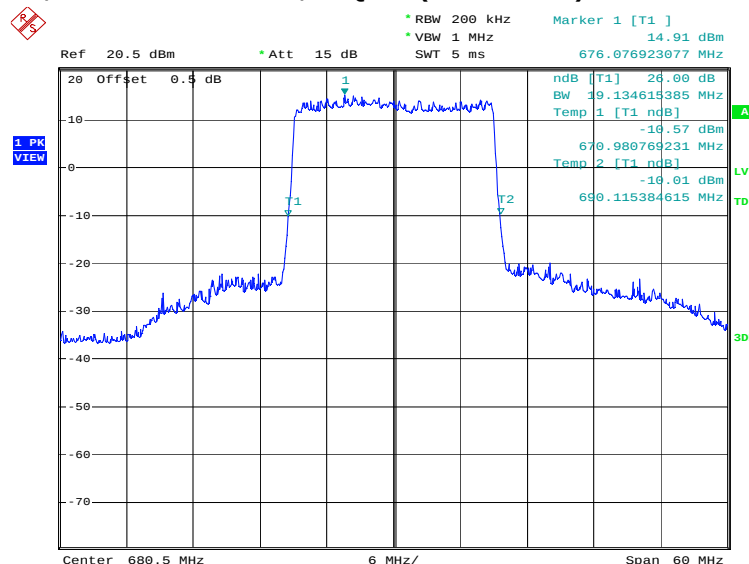
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	19134.62	19134.62

LTE band 71, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 22.OCT.2021 18:08:05

LTE band 71, 20MHz Bandwidth, 16QAM (-26dBc BW)

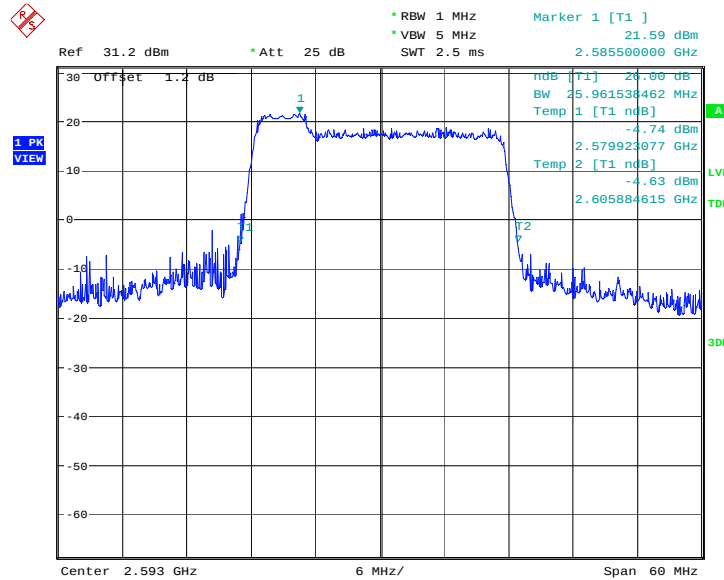


Date: 22.OCT.2021 18:08:58

LTE band 41_CA,5MHz+20MHz(-26dBc)

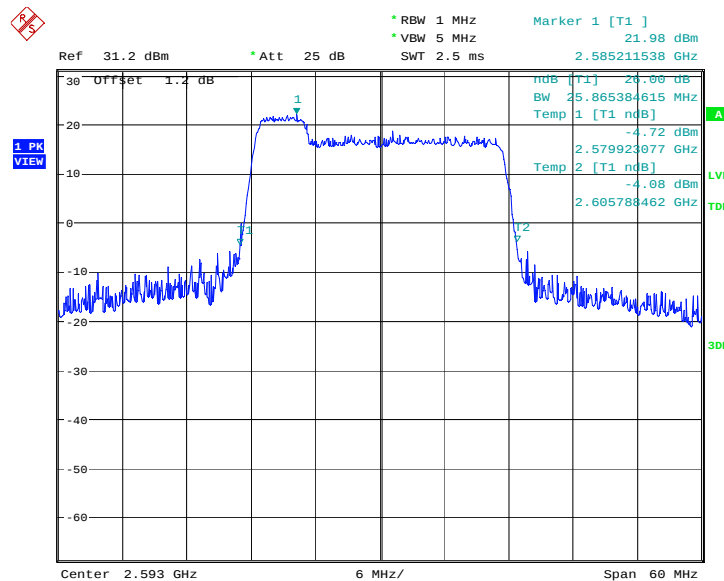
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2583.8	25.962	25.865

LTE band 41_CA, 5MHz+20MHz Bandwidth,QPSK (-26dBc BW)



Date: 16.NOV.2021 10:17:35

LTE band 41_CA, 5MHz+20MHz Bandwidth,16QAM (-26dBc BW)

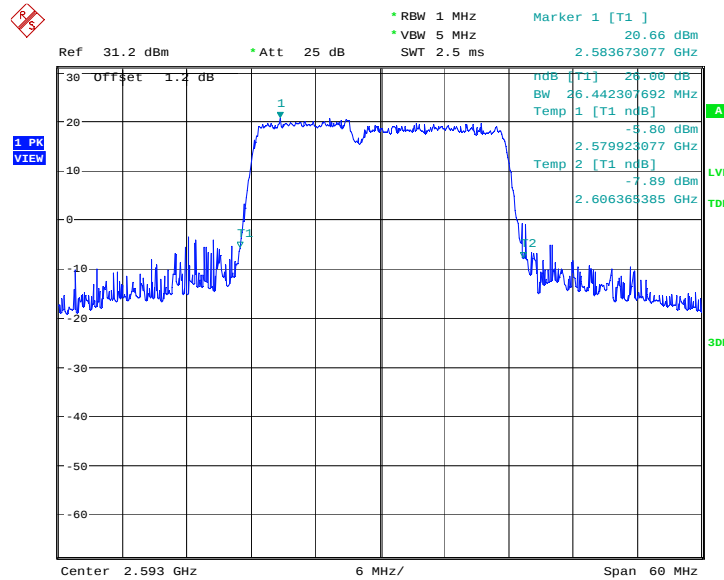


Date: 16.NOV.2021 10:17:46

LTE band 41_CA,10MHz+15MHz(-26dBc)

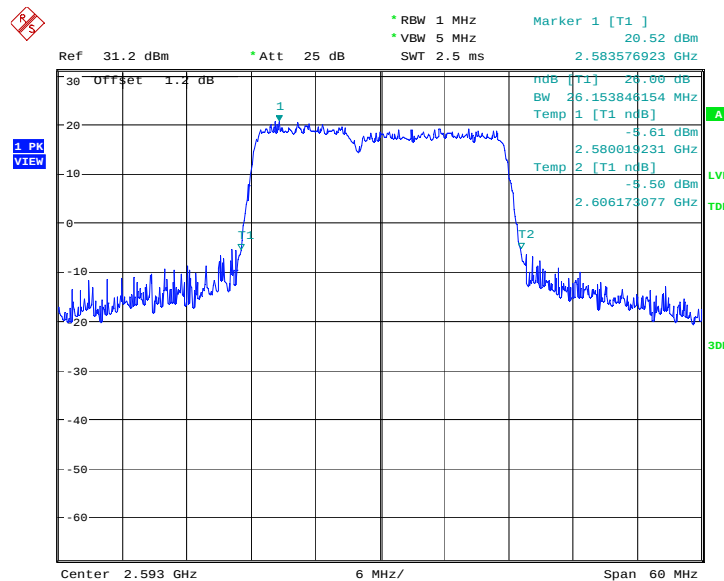
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2583.6	26.442	26.154

LTE band 41_CA, 10MHz+15MHz Bandwidth,QPSK (-26dBc BW)



Date: 16.NOV.2021 10:18:36

LTE band 41_CA, 10MHz+15MHz Bandwidth,16QAM (-26dBc BW)

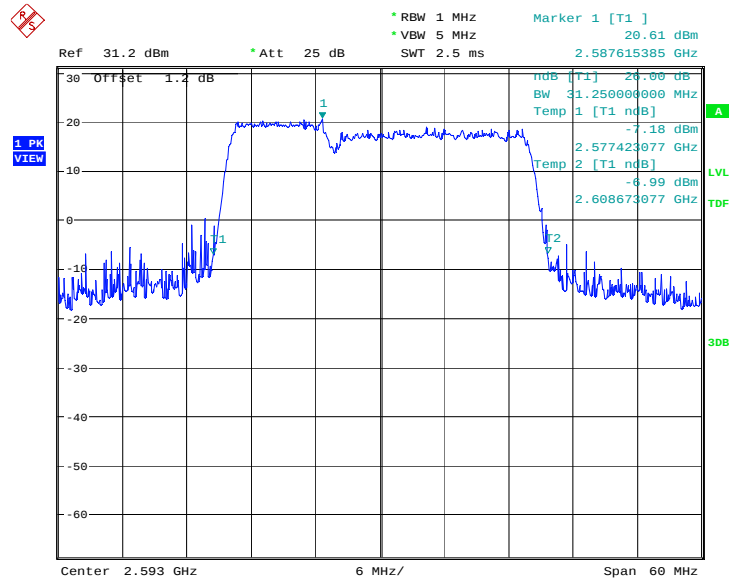


Date: 16.NOV.2021 10:18:46

LTE band 41_CA,10MHz+20MHz(-26dBc)

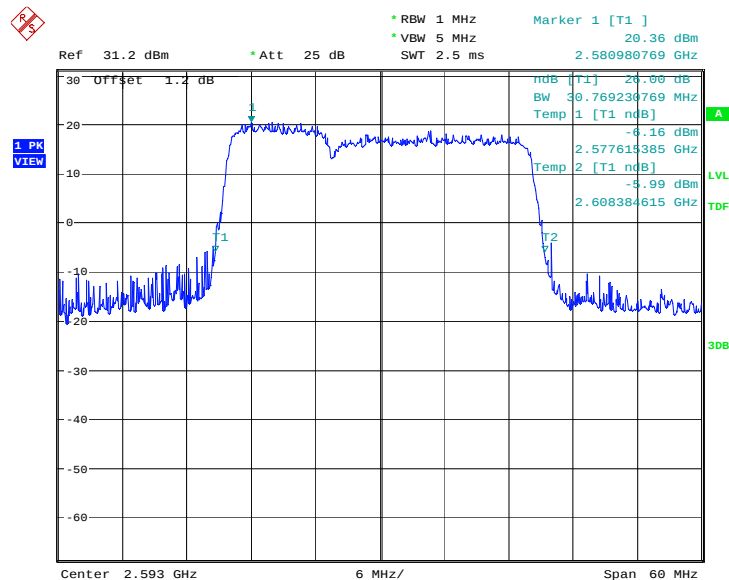
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2583.8	31.250	30.769

LTE band 41_CA, 10MHz+20MHz Bandwidth,QPSK (-26dBc BW)



Date: 16.NOV.2021 10:19:33

LTE band 41_CA, 10MHz+20MHz Bandwidth,16QAM (-26dBc BW)

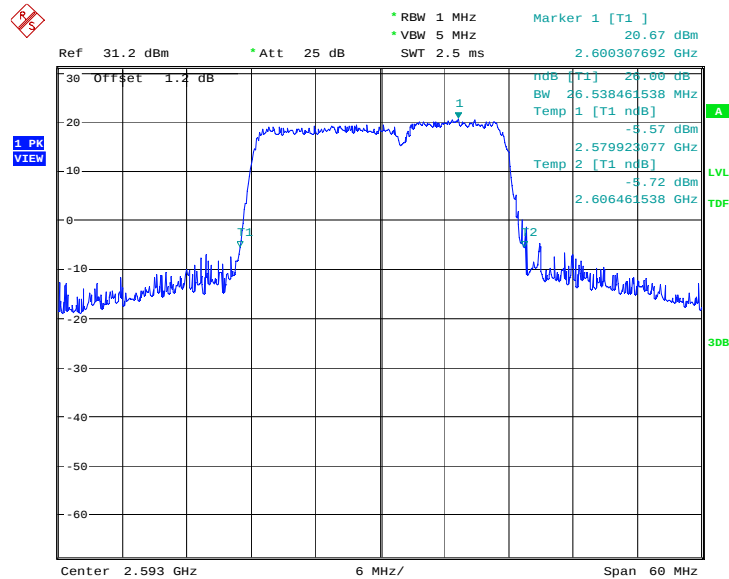


Date: 16.NOV.2021 10:19:43

LTE band 41_CA,15MHz+10MHz(-26dBc)

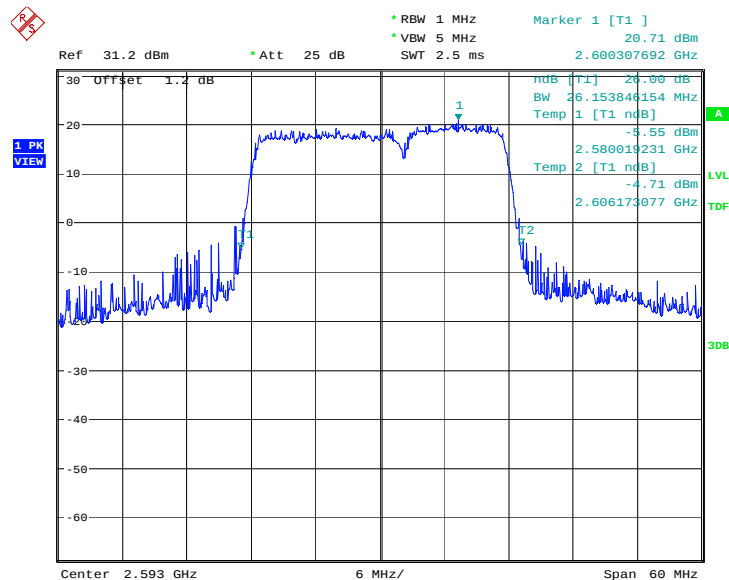
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2583.8	26.538	26.154

LTE band 41_CA, 15MHz+10MHz Bandwidth,QPSK (-26dBc BW)



Date: 16.NOV.2021 10:20:33

LTE band 41_CA, 15MHz+10MHz Bandwidth,16QAM (-26dBc BW)

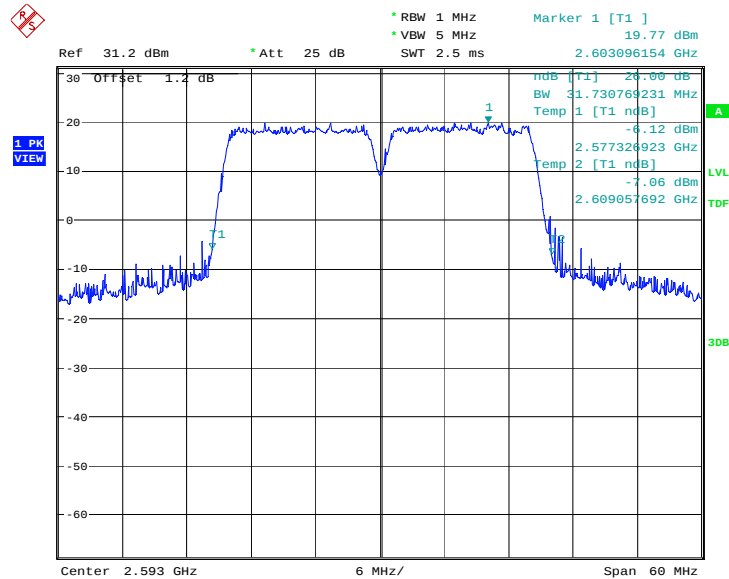


Date: 16.NOV.2021 10:20:43

LTE band 41_CA,15MHz+15MHz(-26dBc)

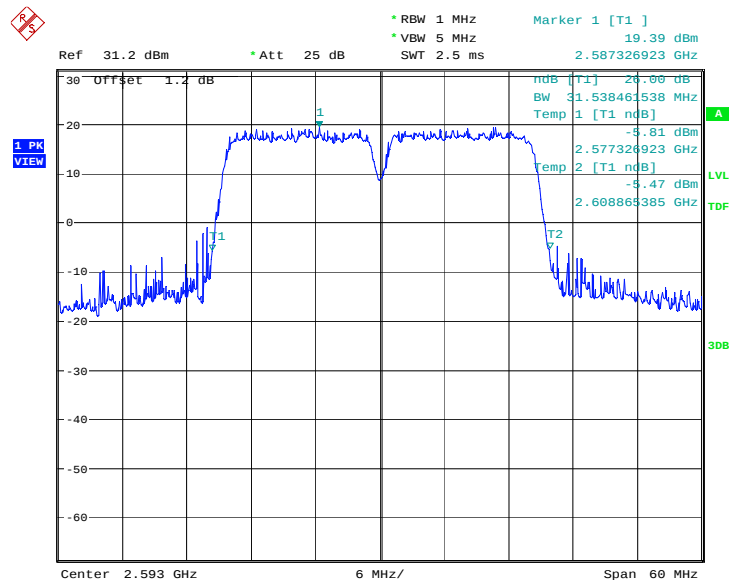
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2583.8	31.731	31.538

LTE band 41_CA, 15MHz+15MHz Bandwidth,QPSK (-26dBc BW)



Date: 16.NOV.2021 10:21:30

LTE band 41_CA, 15MHz+15MHz Bandwidth,16QAM (-26dBc BW)

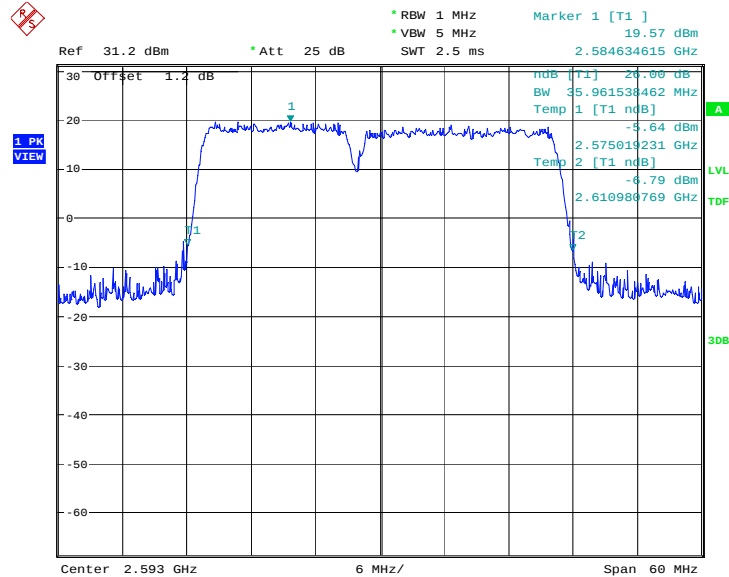


Date: 16.NOV.2021 10:21:40

LTE band 41_CA,15MHz+20MHz(-26dBc)

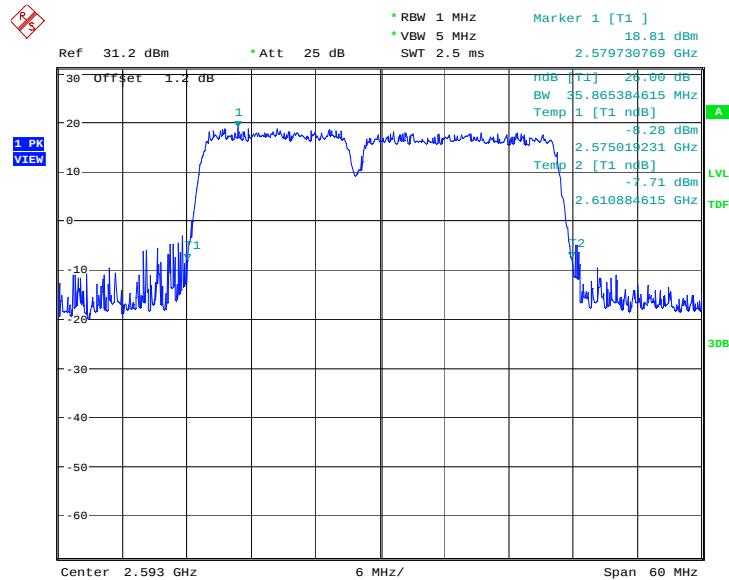
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2583.8	35.962	35.865

LTE band 41_CA, 15MHz+20MHz Bandwidth,QPSK (-26dBc BW)



Date: 16.NOV.2021 10:22:27

LTE band 41_CA, 15MHz+20MHz Bandwidth,16QAM (-26dBc BW)

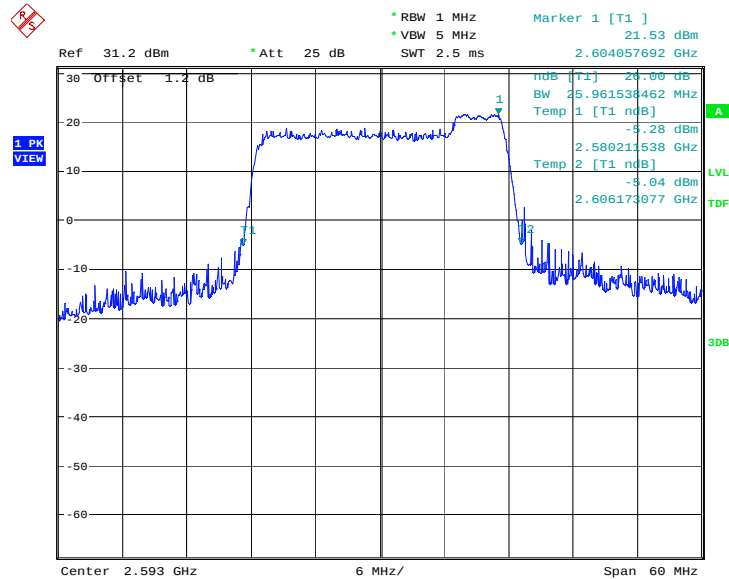


Date: 16.NOV.2021 10:22:37

LTE band 41_CA,20MHz+5MHz(-26dBc)

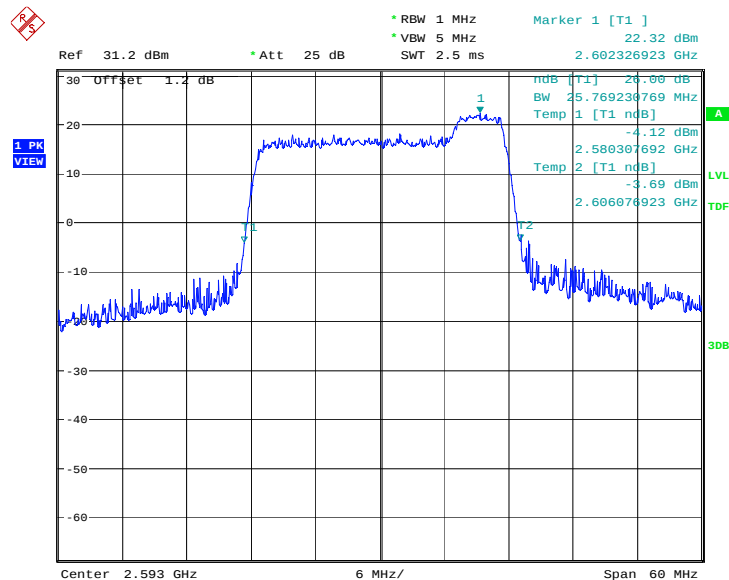
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2583.8	25.962	25.769

LTE band 41_CA, 20MHz+5MHz Bandwidth,QPSK (-26dBc BW)



Date: 16.NOV.2021 10:23:27

LTE band 41_CA, 20MHz+5MHz Bandwidth,16QAM (-26dBc BW)

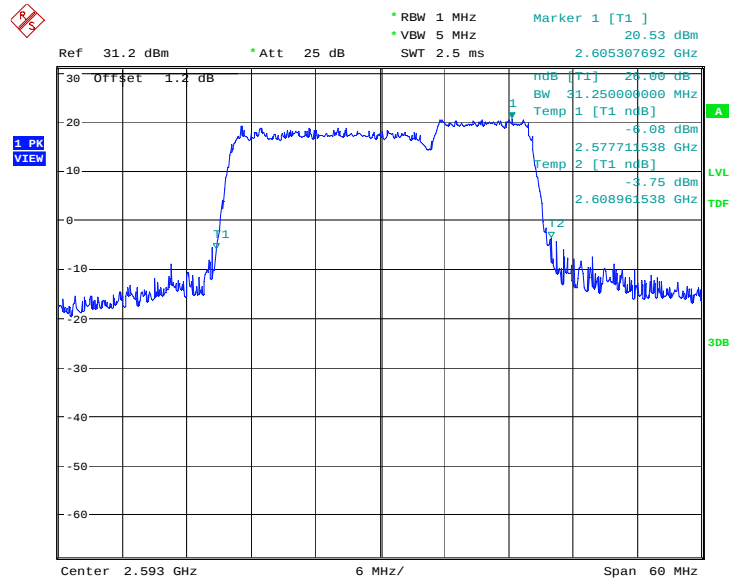


Date: 16.NOV.2021 10:23:37

LTE band 41_CA,20MHz+10MHz(-26dBc)

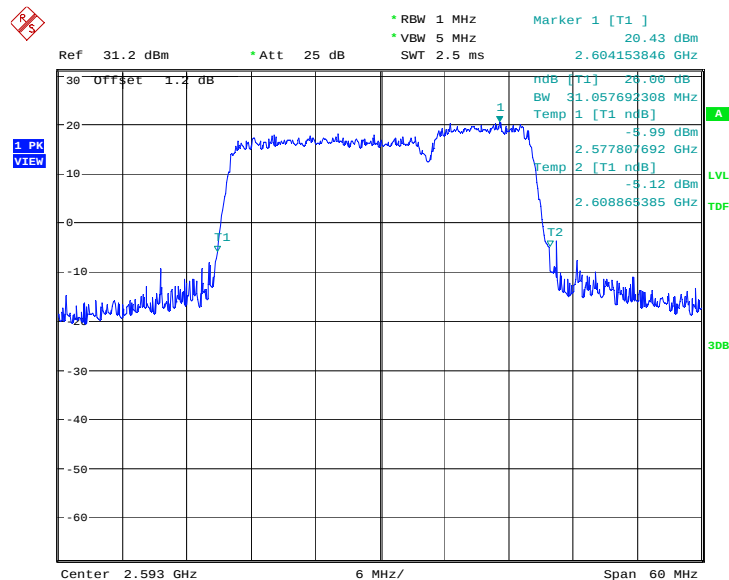
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2583.8	31.250	31.058

LTE band 41_CA, 20MHz+10MHz Bandwidth,QPSK (-26dBc BW)



Date: 16.NOV.2021 10:24:24

LTE band 41_CA, 20MHz+10MHz Bandwidth,16QAM (-26dBc BW)

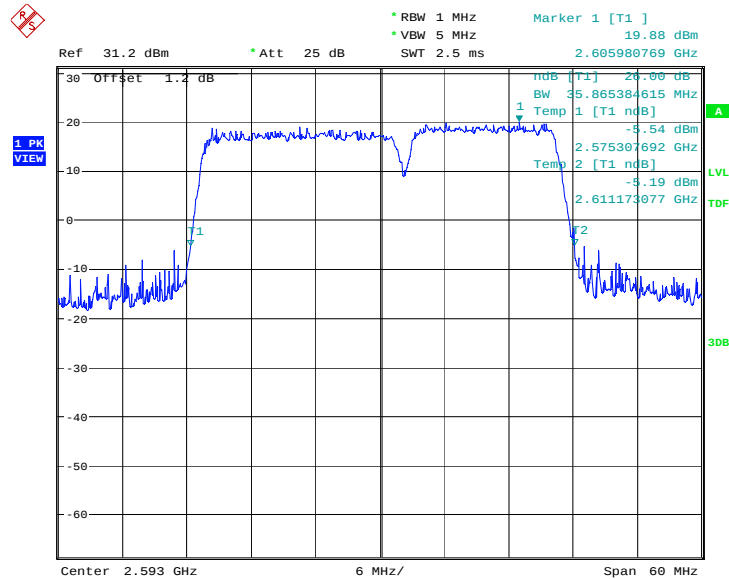


Date: 16.NOV.2021 10:24:35

LTE band 41_CA,20MHz+15MHz(-26dBc)

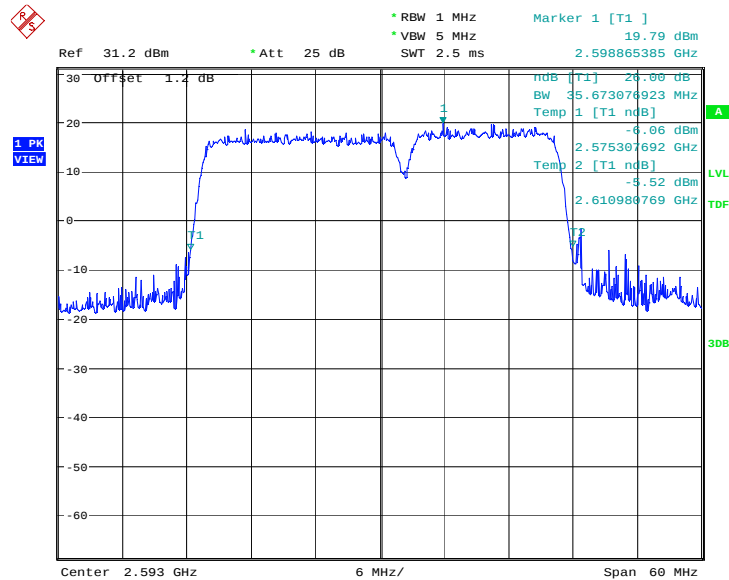
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2583.3	35.865	35.673

LTE band 41_CA, 20MHz+15MHz Bandwidth,QPSK (-26dBc BW)



Date: 16.NOV.2021 10:25:21

LTE band 41_CA, 20MHz+15MHz Bandwidth,16QAM (-26dBc BW)

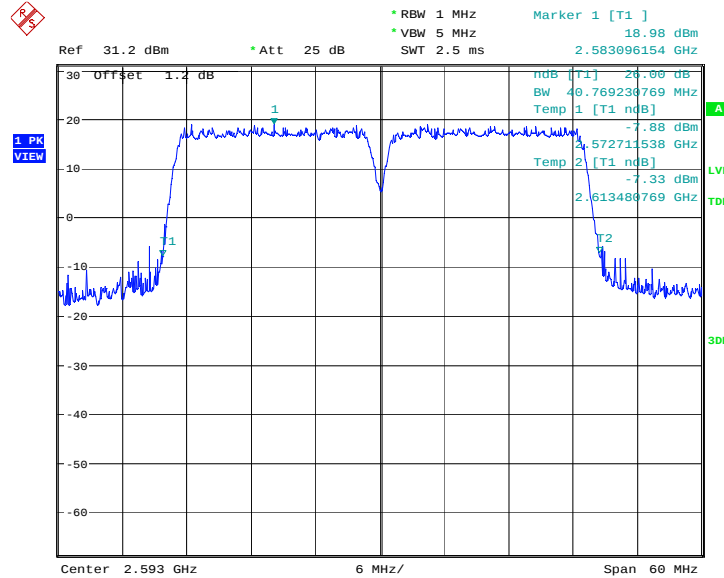


Date: 16.NOV.2021 10:25:32

LTE CA band 41,20MHz+20MHz(-26dBc)

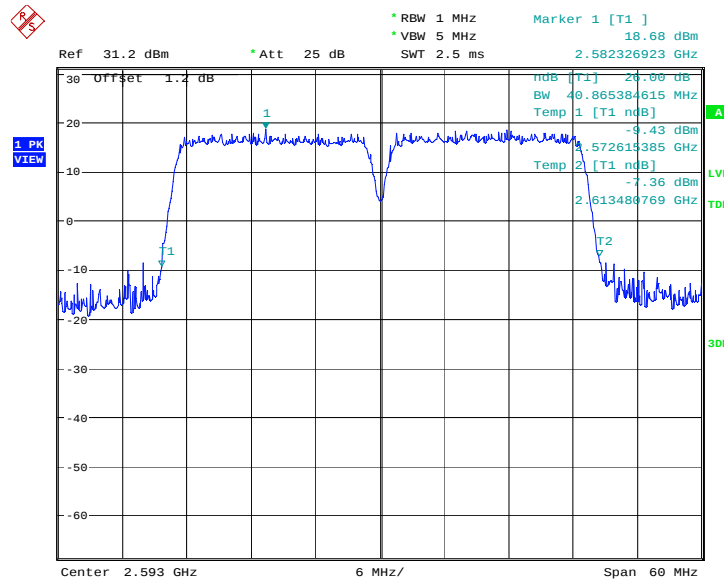
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2583.1	40.769	40.865

LTE band 41_CA, 20MHz+20MHz Bandwidth,QPSK (-26dBc BW)



Date: 16.NOV.2021 10:26:18

LTE band 41_CA, 20MHz+20MHz Bandwidth,16QAM (-26dBc BW)



Date: 16.NOV.2021 10:26:29

A.6 Band Edge Compliance

A.6.1 Measurement limit

Part 22.917, Part 24.238 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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

Part 27.53(c) states for operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following: (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB; (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB; (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

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

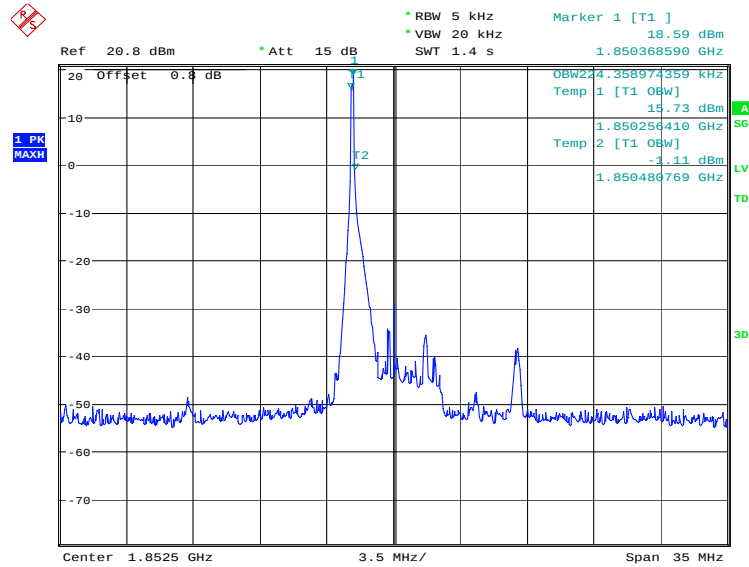
The spectrum analyzer readings are corrected by $[10 \log(1/\text{duty cycle})]$ for the non-continuous transmitting scenario.

A.6.2 Measurement result

Only the worst case result is given below

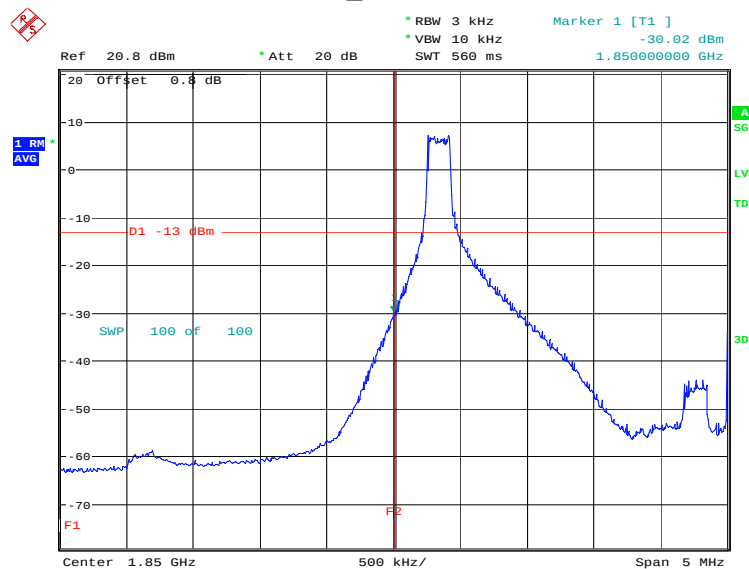
LTE band 2

OBW: 1RB-low_offset



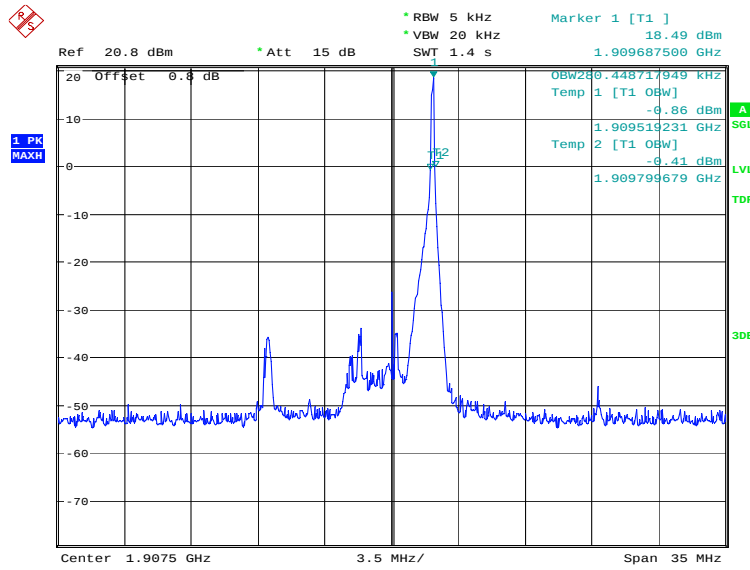
Date: 18.NOV.2021 12:35:52

LOW BAND EDGE BLOCK-1RB-low_offset



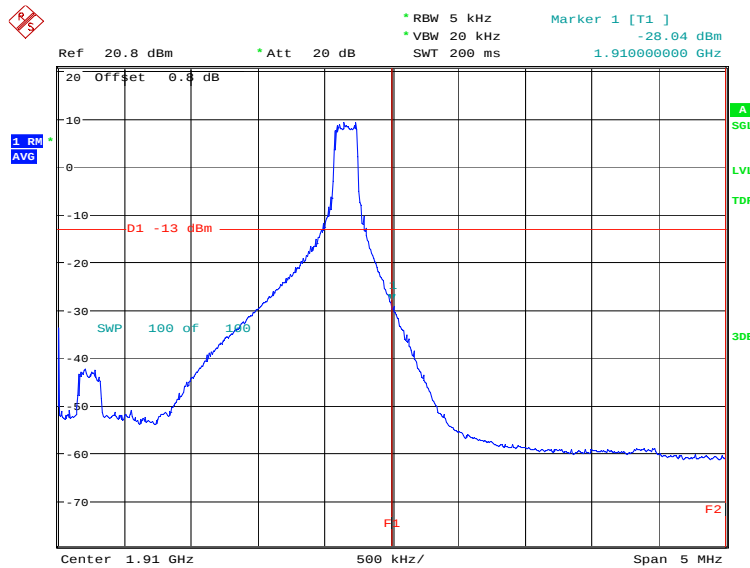
Date: 18.NOV.2021 12:37:05

OBW: 1RB-high_offset



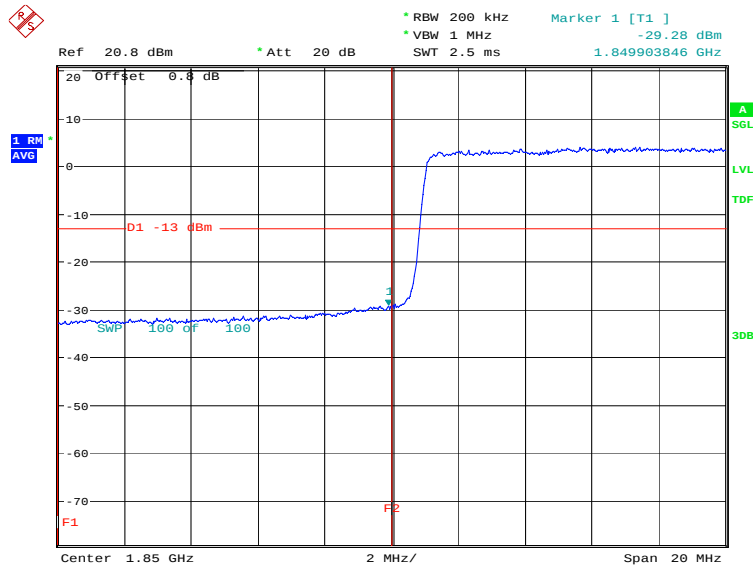
Date: 18.NOV.2021 12:37:41

HIGH BAND EDGE BLOCK-1RB-high_offset



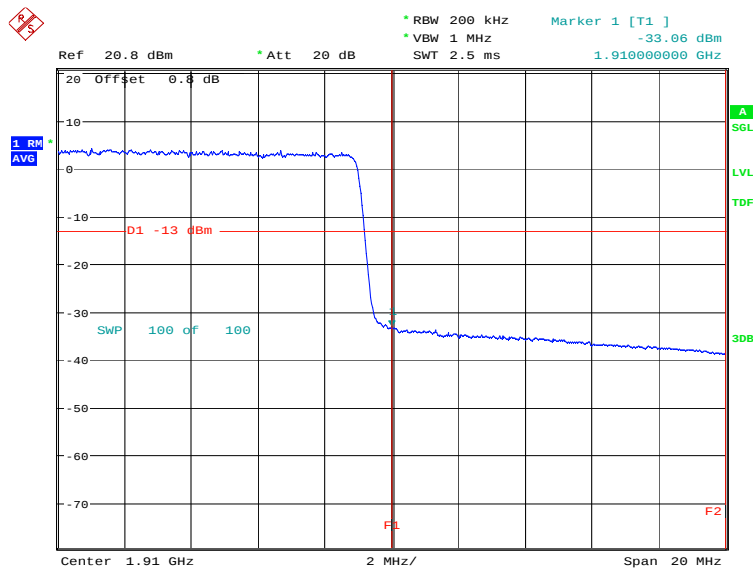
Date: 18.NOV.2021 12:38:54

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 25.OCT.2021 14:08:05

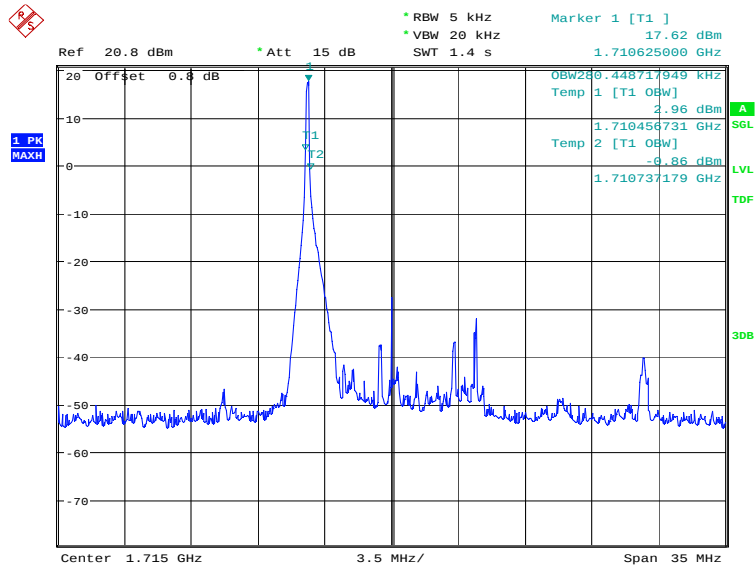
HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 25.OCT.2021 14:09:48

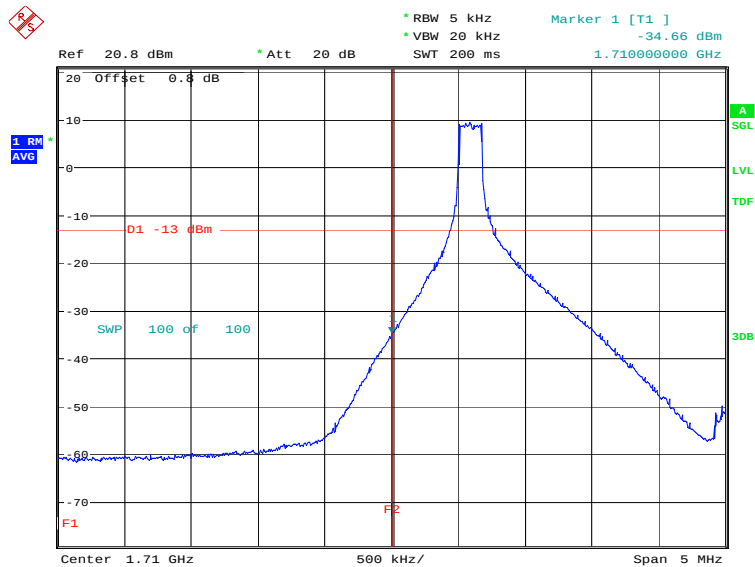
LTE band 4

OBW: 1RB-low_offset



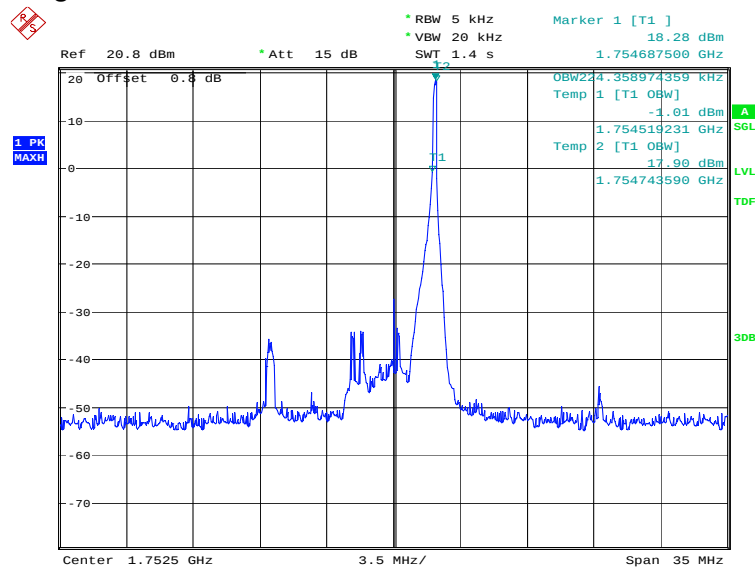
Date: 18.NOV.2021 12:39:33

LOW BAND EDGE BLOCK-1RB-low_offset



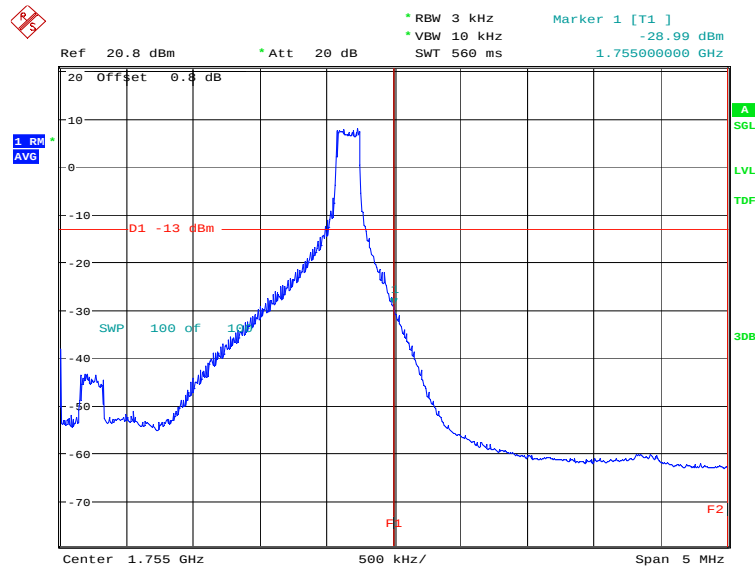
Date: 18.NOV.2021 12:40:46

OBW: 1RB-high_offset



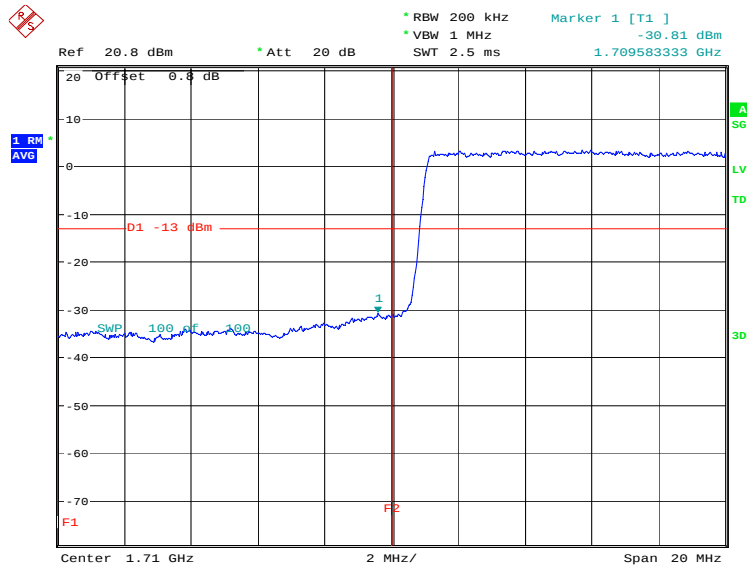
Date: 18.NOV.2021 12:42:04

HIGH BAND EDGE BLOCK-1RB-high_offset



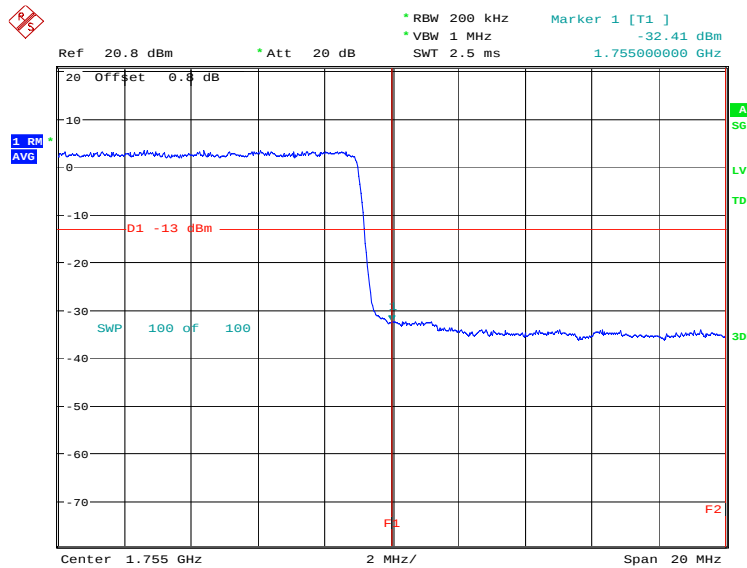
Date: 18.NOV.2021 12:43:17

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 18.NOV.2021 16:43:41

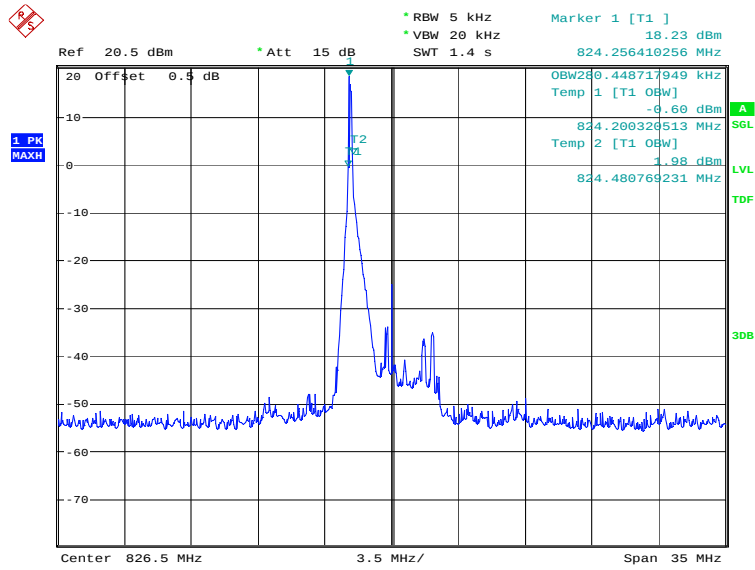
HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 18.NOV.2021 16:45:12

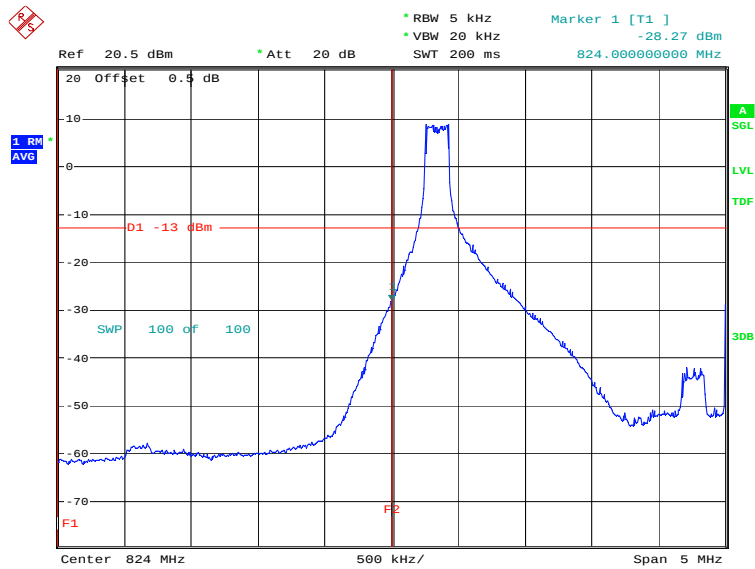
LTE band 5

OBW: 1RB-low_offset



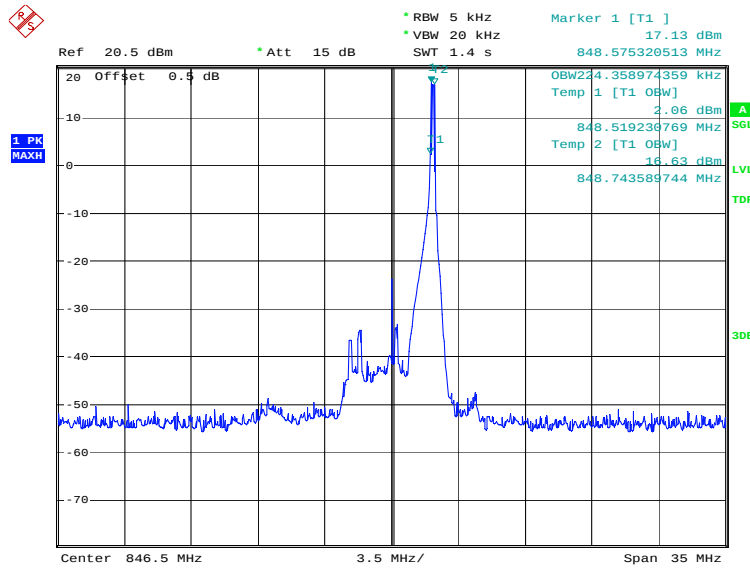
Date: 18.NOV.2021 10:58:35

LOW BAND EDGE BLOCK-1RB-low_offset



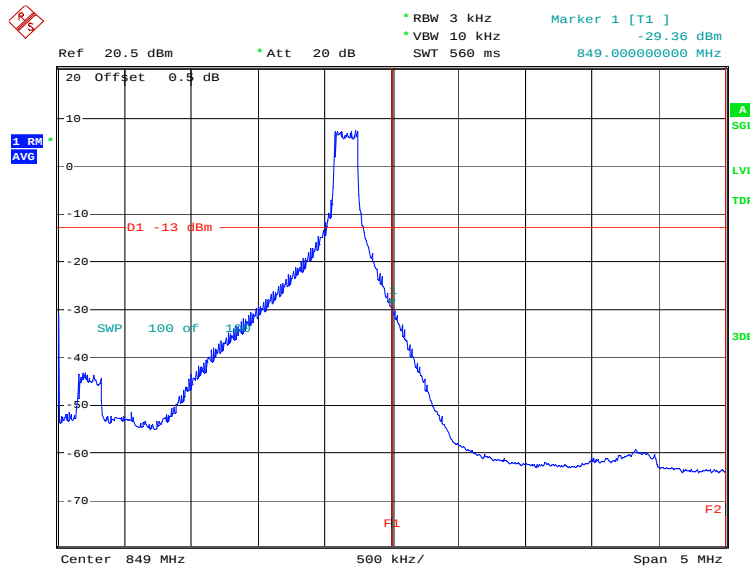
Date: 18.NOV.2021 10:59:48

OBW: 1RB-high_offset



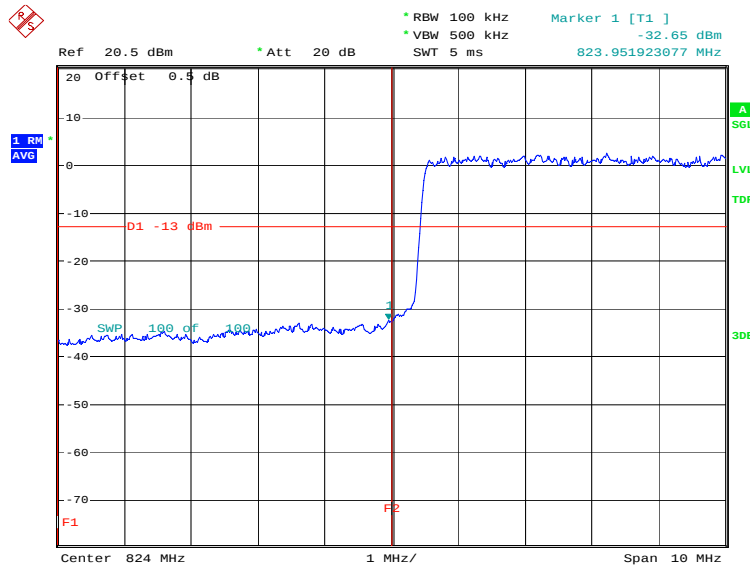
Date: 18.NOV.2021 11:02:38

HIGH BAND EDGE BLOCK-1RB-high_offset



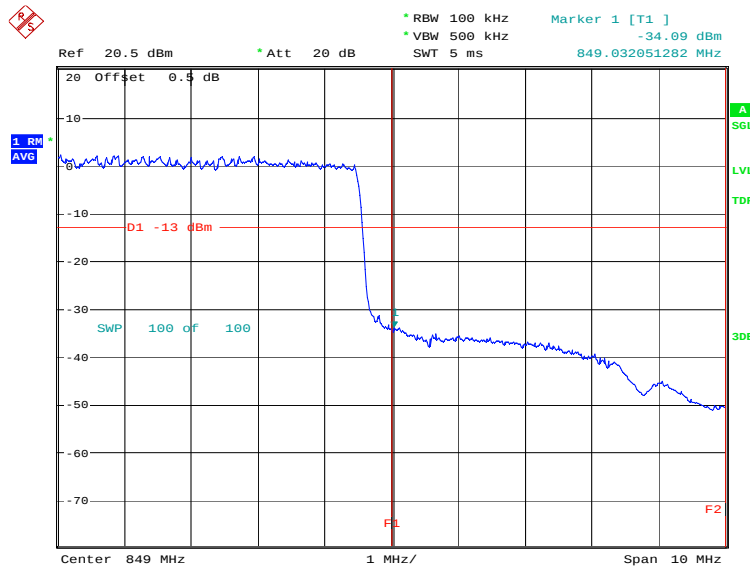
Date: 18.NOV.2021 11:03:51

LOW BAND EDGE BLOCK-10MHz-100%RB



Date: 18.NOV.2021 11:00:23

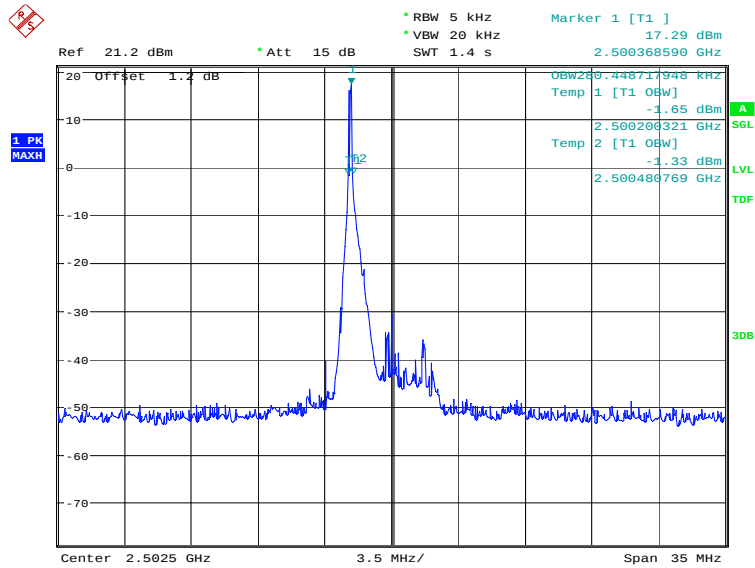
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 18.NOV.2021 11:04:26

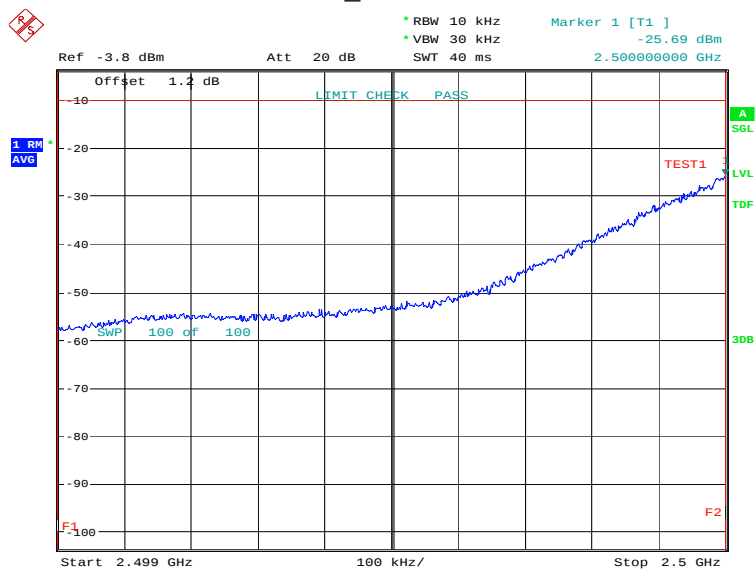
LTE band 7

OBW: 1RB-low_offset

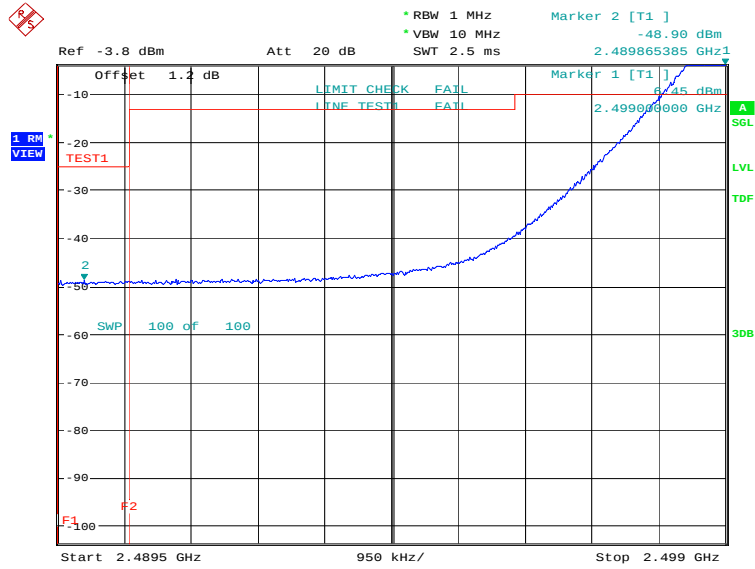


Date: 25.NOV.2021 14:17:43

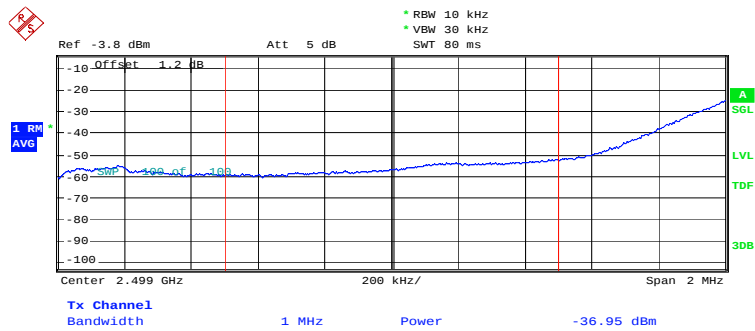
LOW BAND EDGE BLOCK-1RB-low_offset



Date: 25.NOV.2021 14:19:04

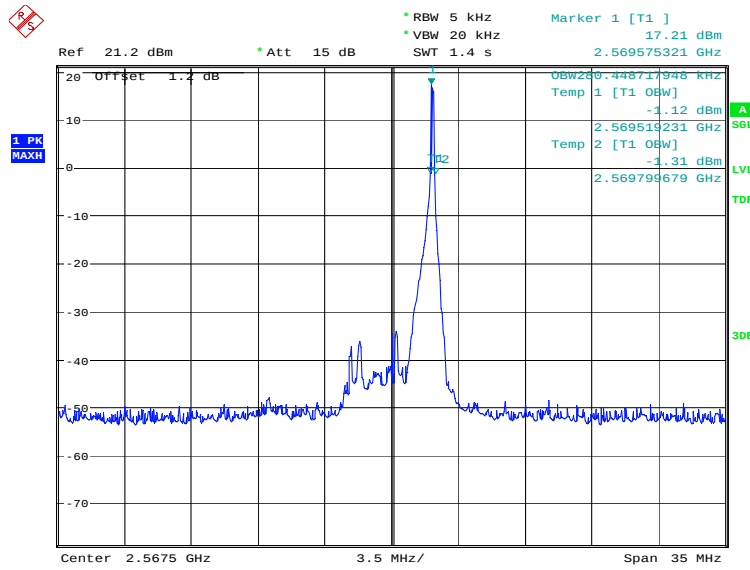


Date: 25.NOV.2021 14:20:52



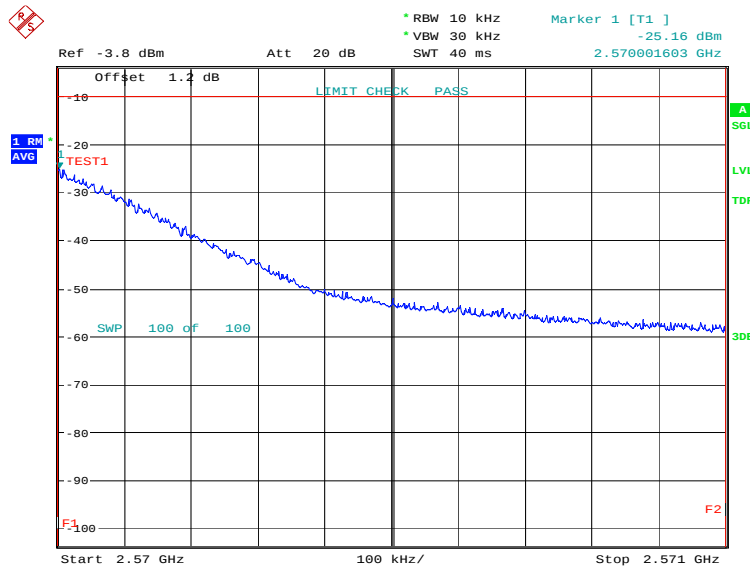
Date: 25.NOV.2021 14:21:19

OBW: 1RB-high_offset

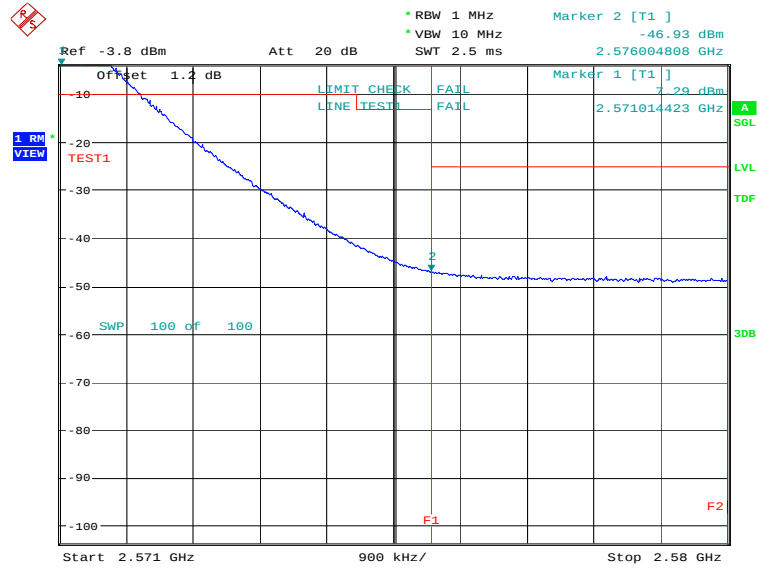


Date: 18.NOV.2021 13:45:32

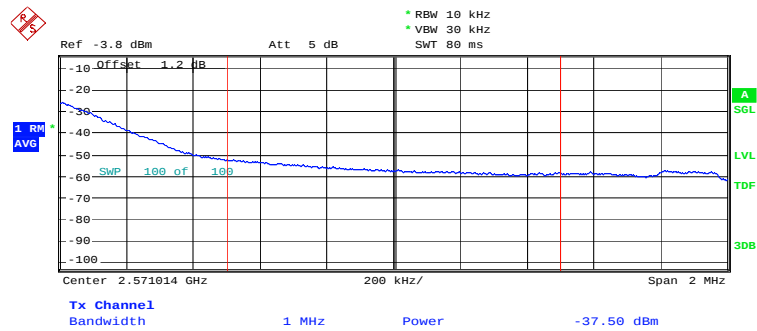
HIGH BAND EDGE BLOCK-1RB-high_offset



Date: 18.NOV.2021 13:46:53

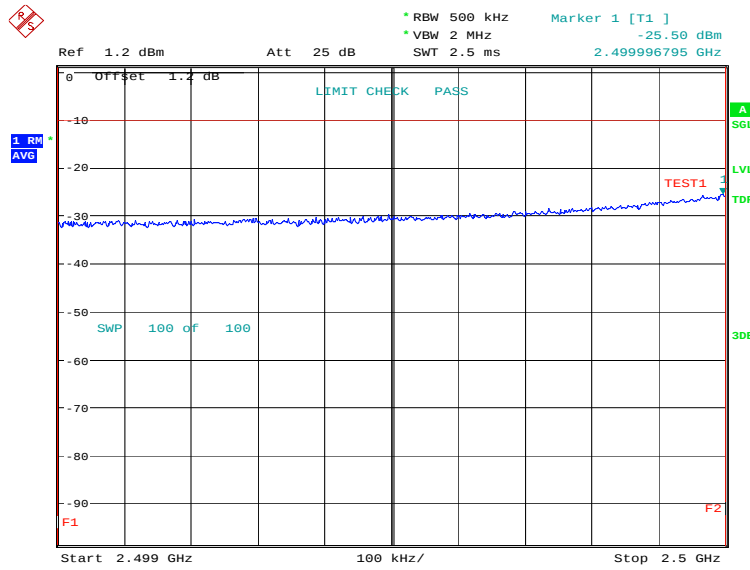


Date: 18.NOV.2021 13:48:41

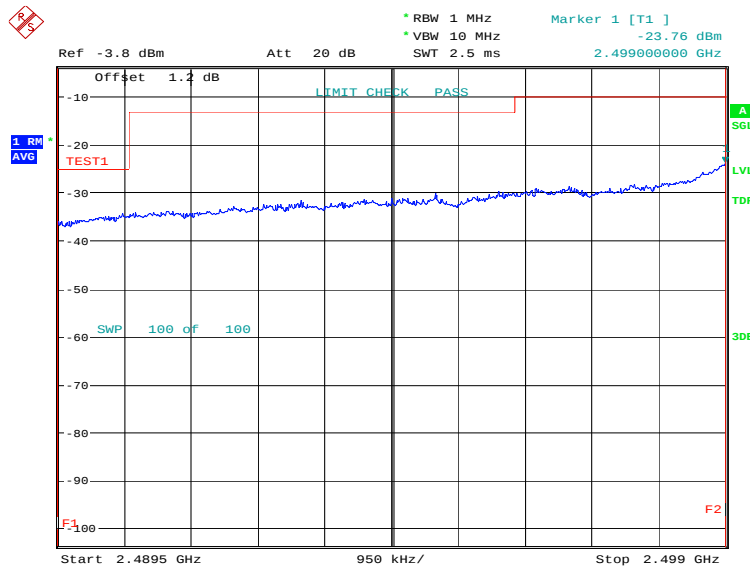


Date: 18.NOV.2021 13:49:08

LOW BAND EDGE BLOCK-20MHz-100%RB

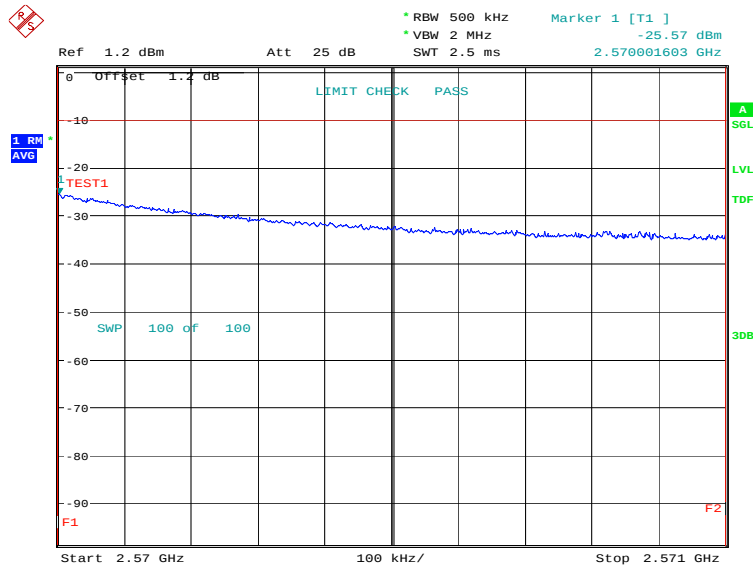


Date: 18.NOV.2021 16:09:25

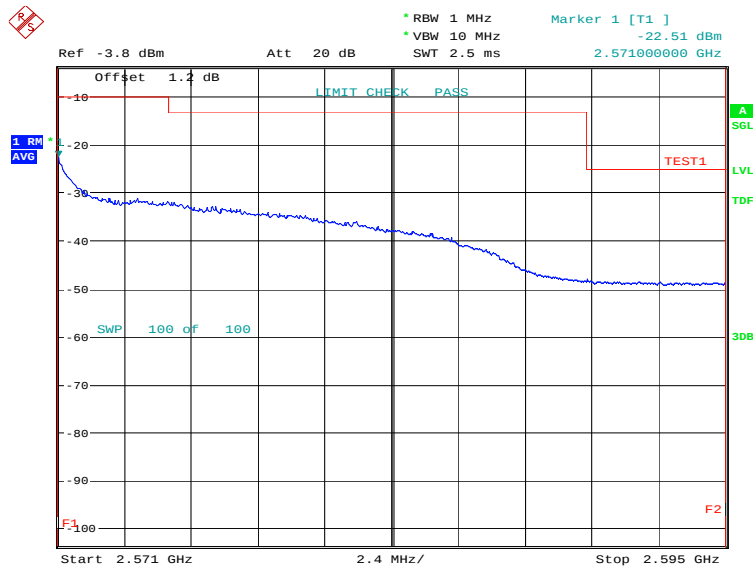


Date: 18.NOV.2021 16:11:05

HIGH BAND EDGE BLOCK-20MHz-100%RB



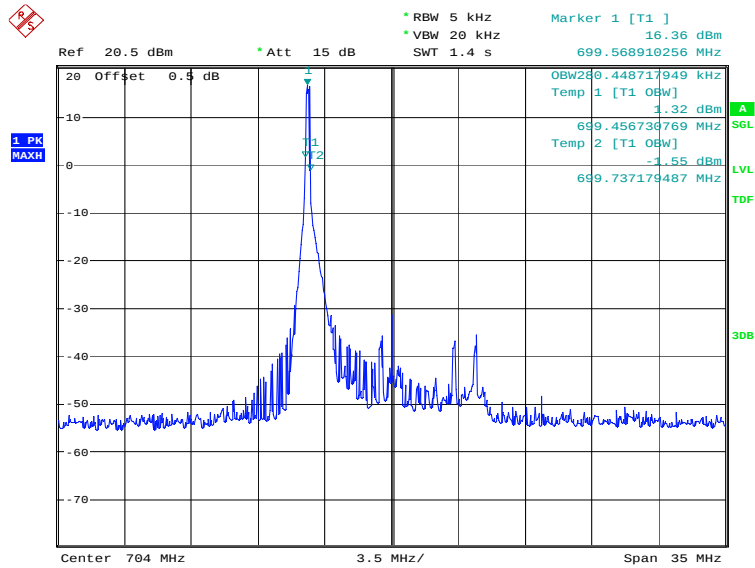
Date: 18.NOV.2021 16:14:01



Date: 18.NOV.2021 16:15:41

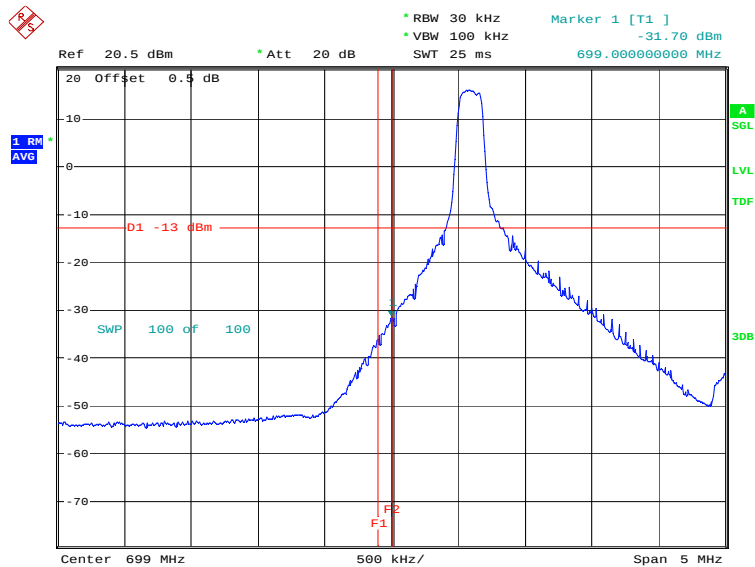
LTE band 12

OBW: 1RB-low_offset



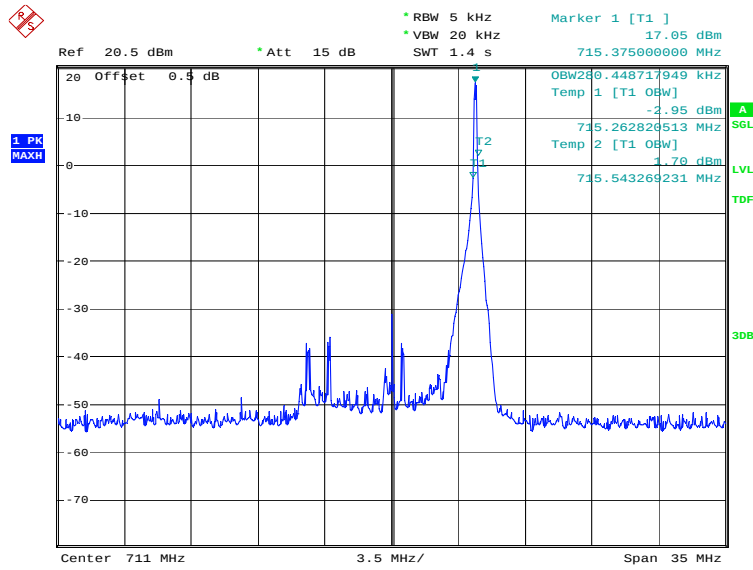
Date: 18.NOV.2021 11:06:00

LOW BAND EDGE BLOCK-1RB-low_offset



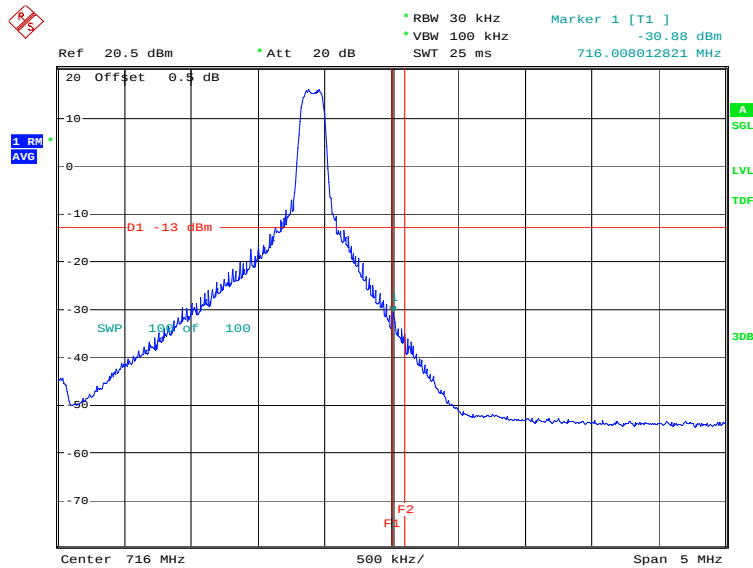
Date: 18.NOV.2021 11:06:18

OBW: 1RB-high_offset



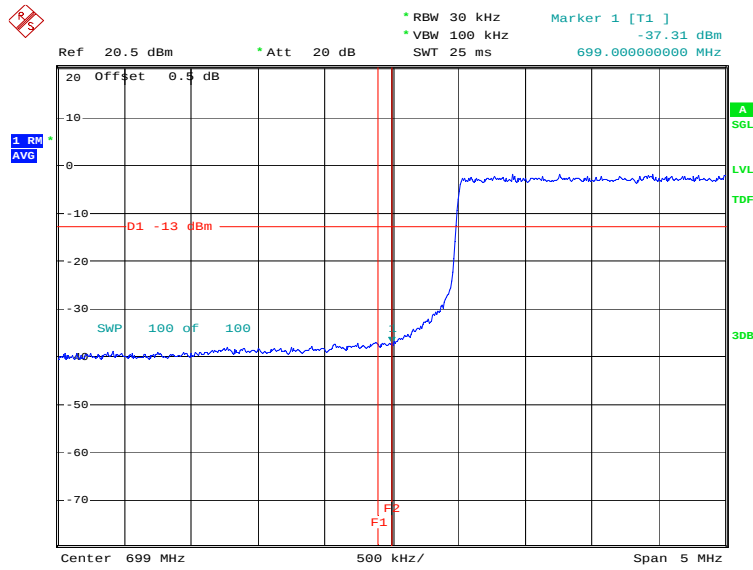
Date: 18.NOV.2021 11:06:54

HIGH BAND EDGE BLOCK-1RB-high_offset



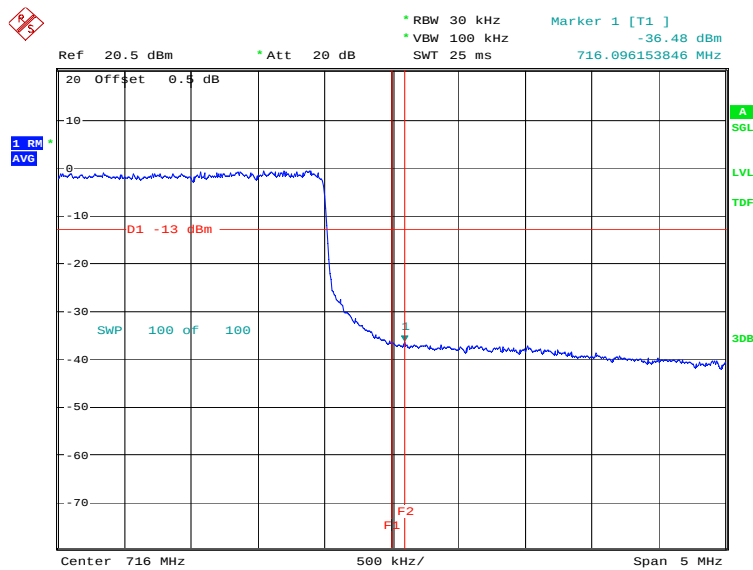
Date: 18.NOV.2021 11:07:12

LOW BAND EDGE BLOCK-10MHz-100%RB



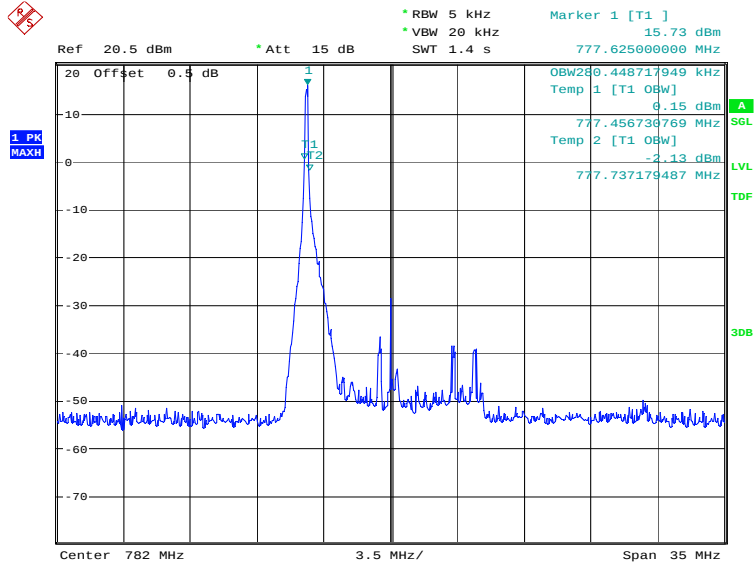
Date: 22.OCT.2021 18:43:43

HIGH BAND EDGE BLOCK-10MHz-100%RB



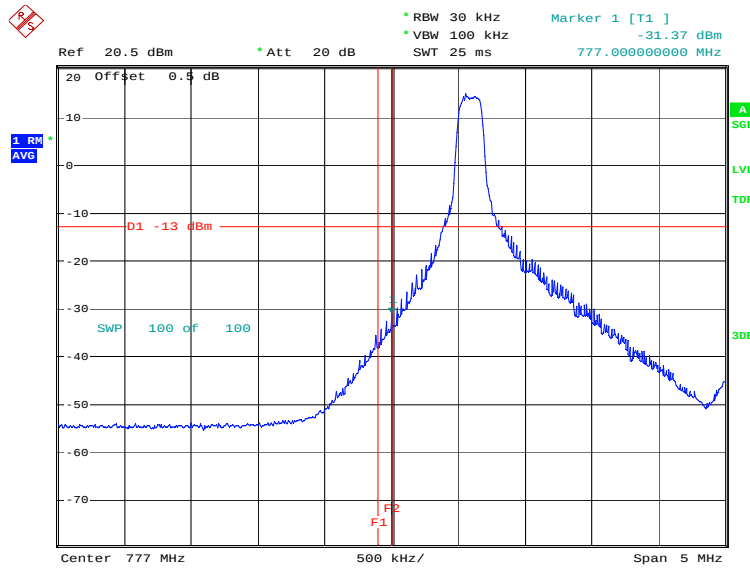
Date: 22.OCT.2021 18:45:27

LTE band 13
OBW: 1RB-low_offset

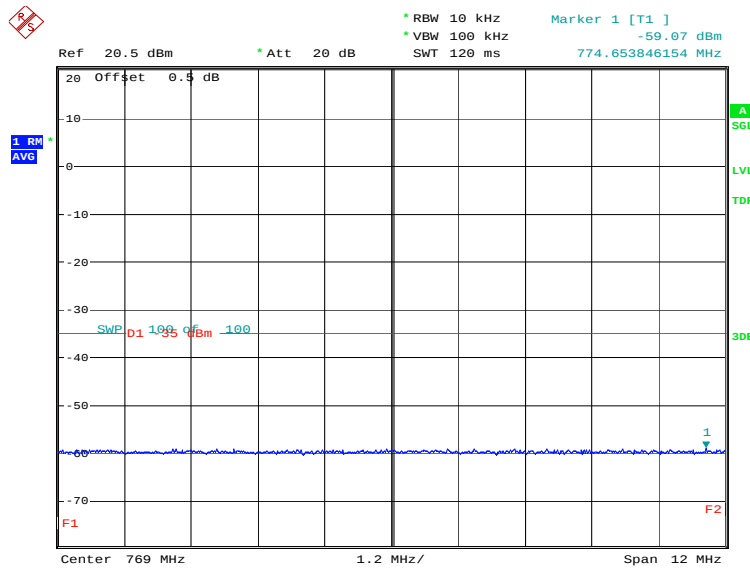


Date: 18.NOV.2021 12:22:51

LOW BAND EDGE BLOCK-1RB-low_offset

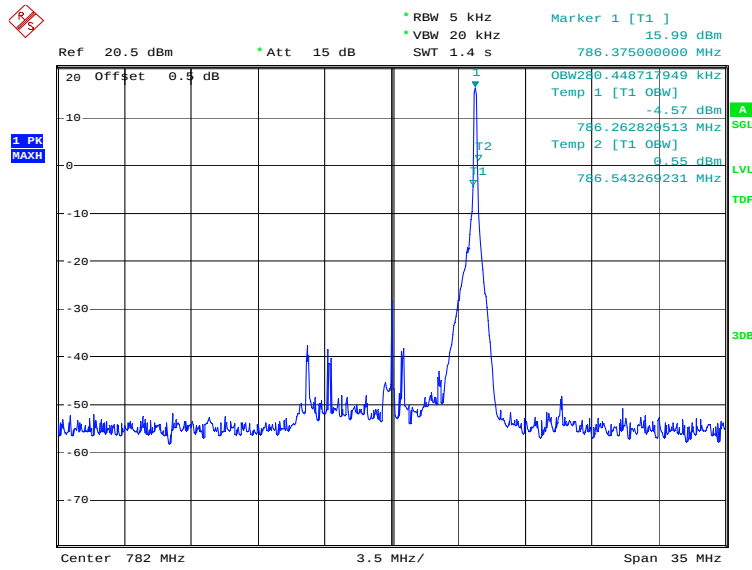


Date: 18.NOV.2021 12:23:10



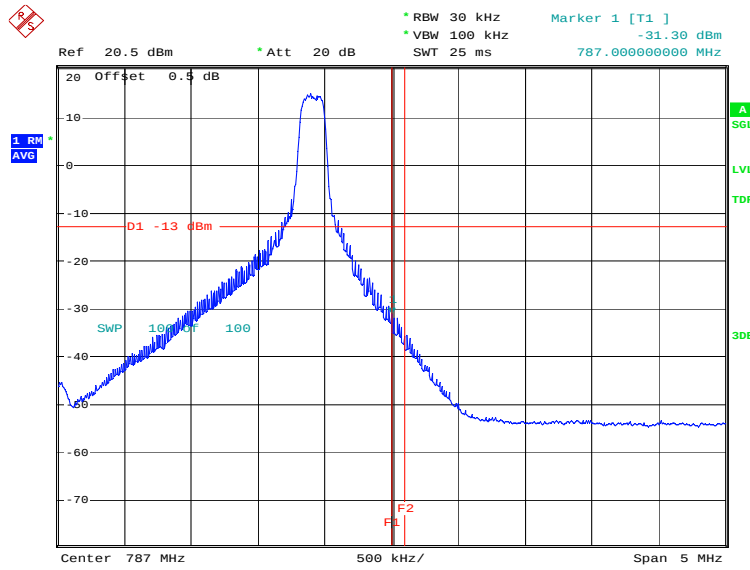
Date: 18.NOV.2021 12:23:45

OBW: 1RB-high_offset

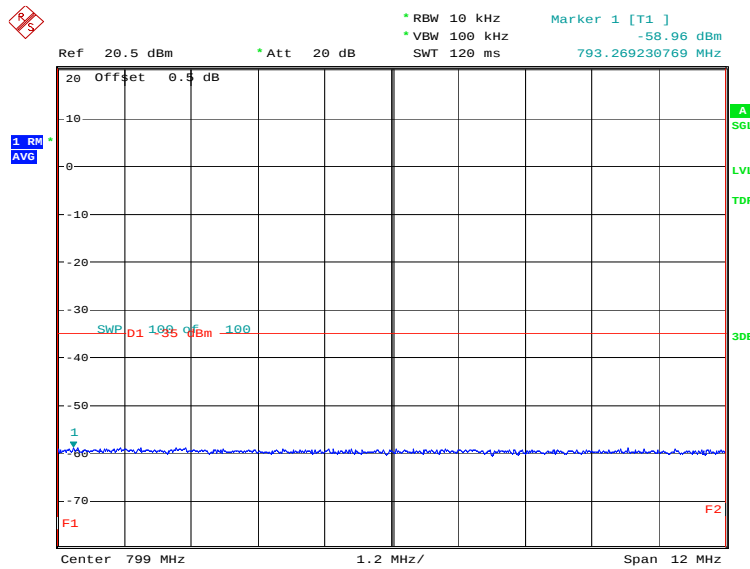


Date: 18.NOV.2021 12:26:43

HIGH BAND EDGE BLOCK-1RB-high_offset

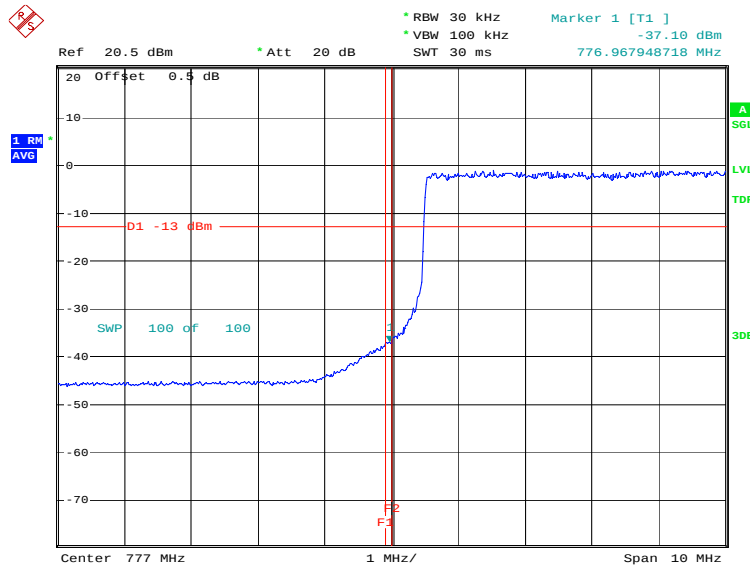


Date: 18.NOV.2021 12:27:01

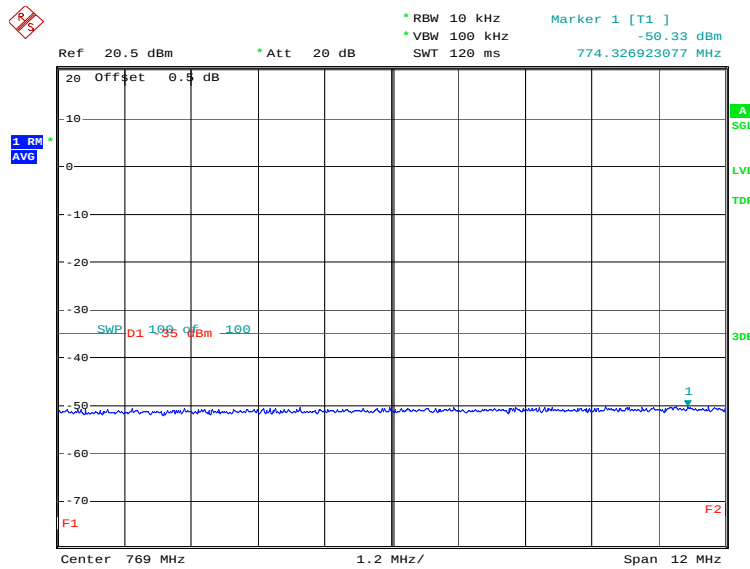


Date: 18.NOV.2021 12:27:31

LOW BAND EDGE BLOCK-10MHz-100%RB

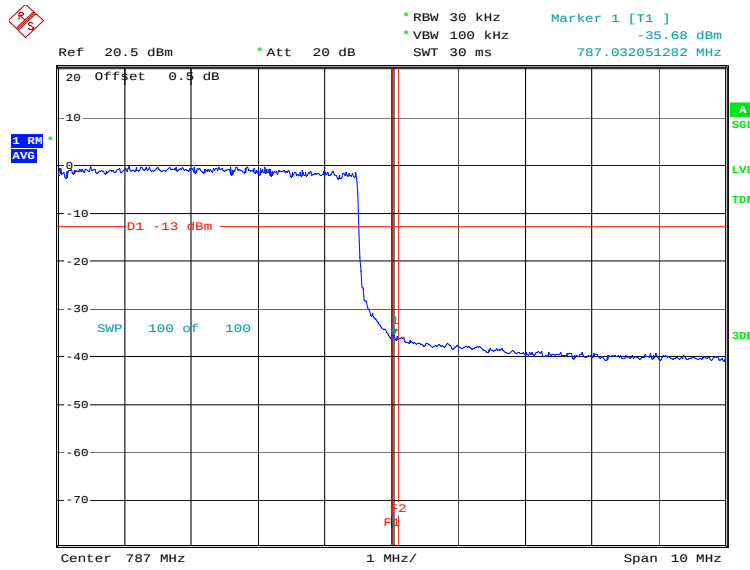


Date: 25.OCT.2021 08:42:10

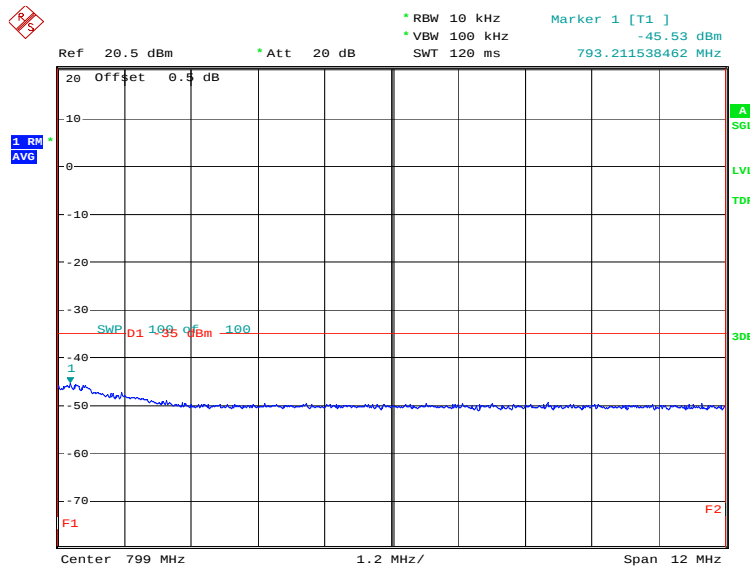


Date: 25.OCT.2021 08:42:35

HIGH BAND EDGE BLOCK-10MHz-100%RB



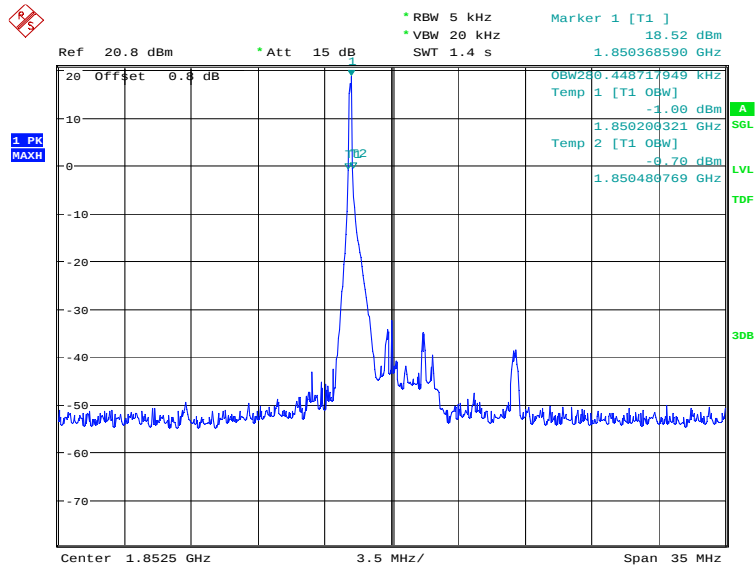
Date: 25.OCT.2021 08:44:19



Date: 25.OCT.2021 08:44:46

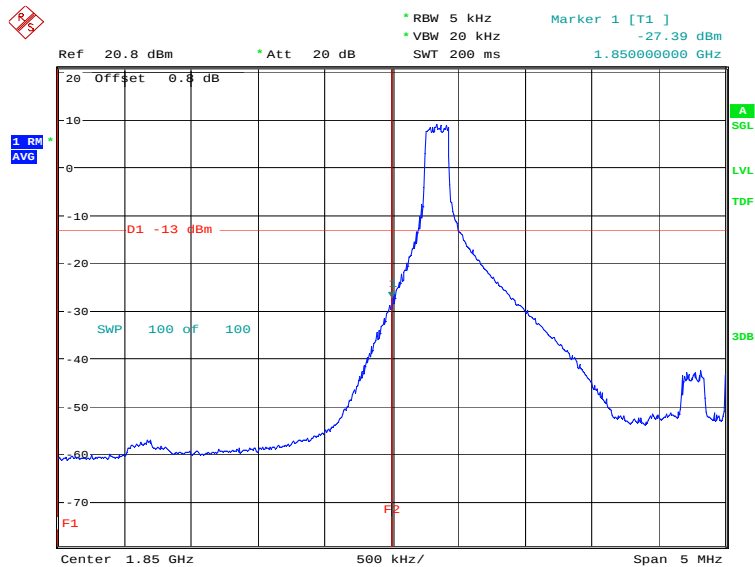
LTE band 25

OBW: 1RB-low_offset



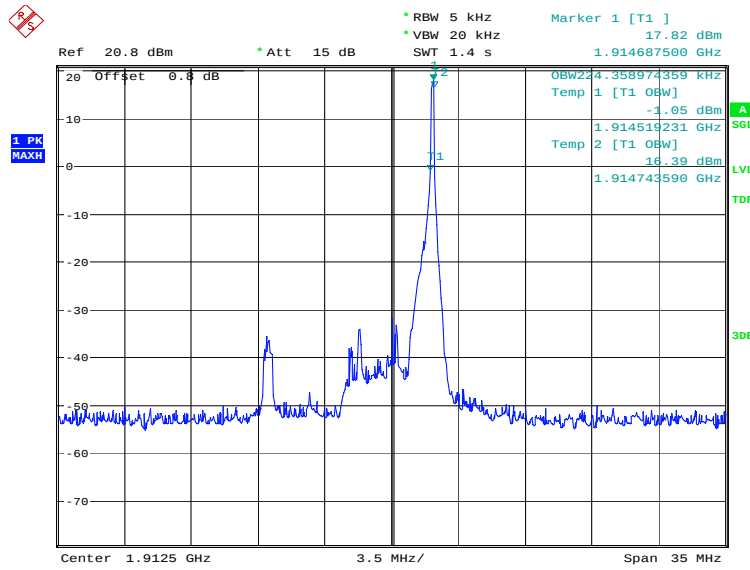
Date: 18.NOV.2021 12:44:50

LOW BAND EDGE BLOCK-1RB-low_offset



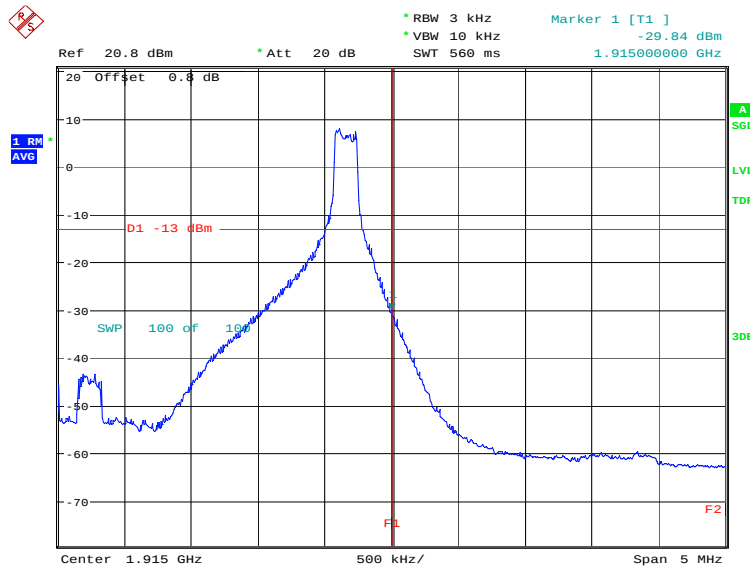
Date: 18.NOV.2021 12:46:03

OBW: 1RB-high_offset



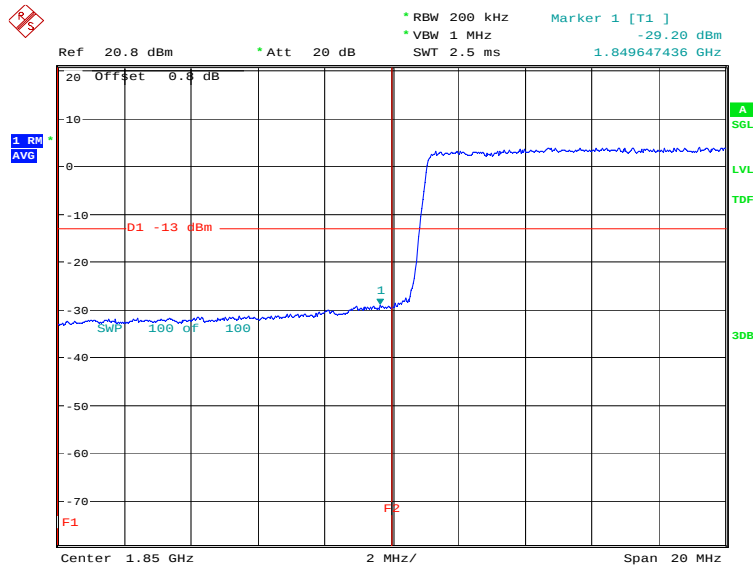
Date: 18.NOV.2021 12:46:39

HIGH BAND EDGE BLOCK-1RB-high_offset



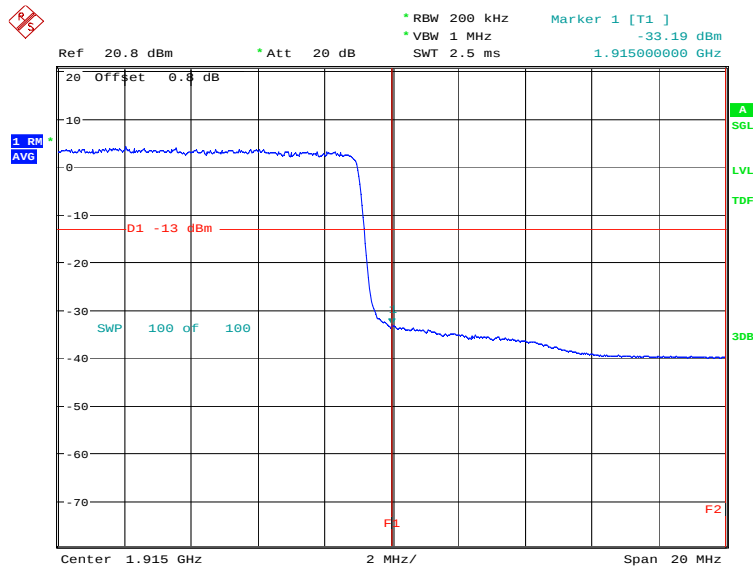
Date: 18.NOV.2021 12:47:52

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 25.OCT.2021 14:11:32

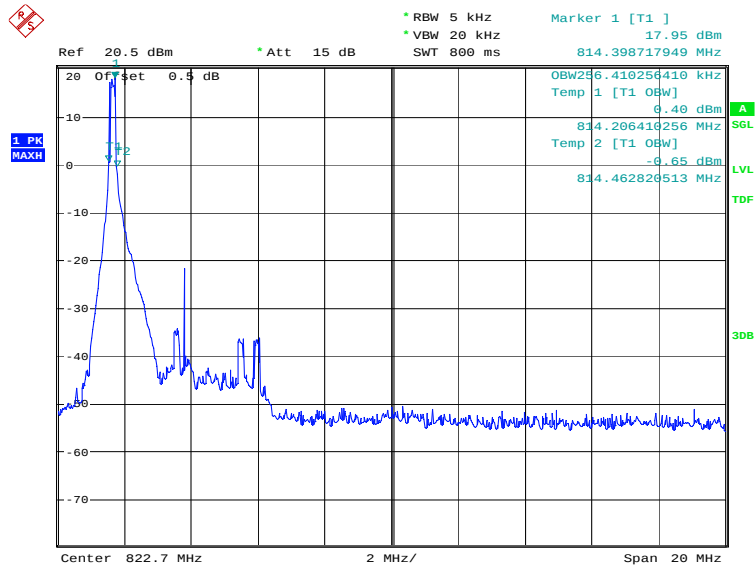
HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 25.OCT.2021 14:13:15

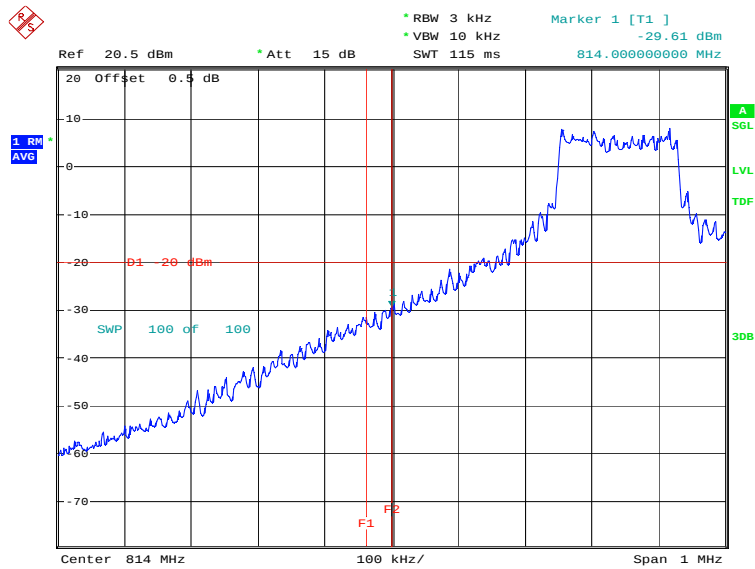
LTE band 26(814MHz~824MHz)

OBW: 1RB-low_offset



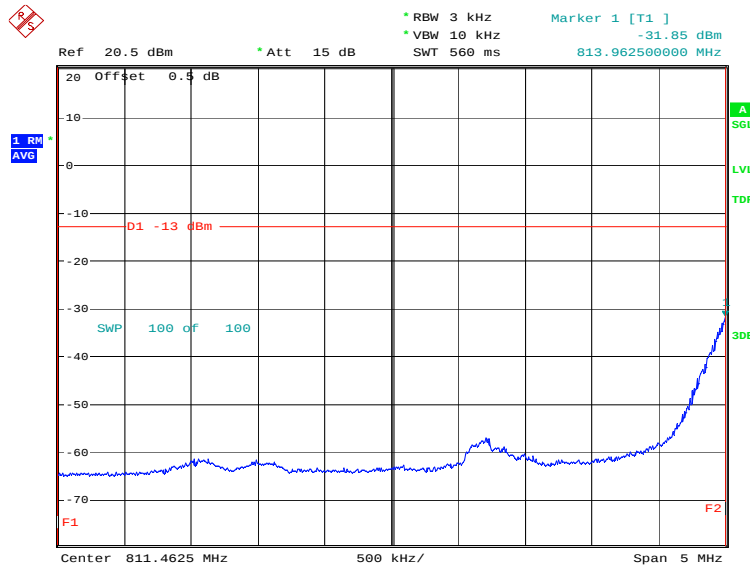
Date: 18.NOV.2021 11:22:09

LOW BAND EDGE BLOCK-1RB-low_offset



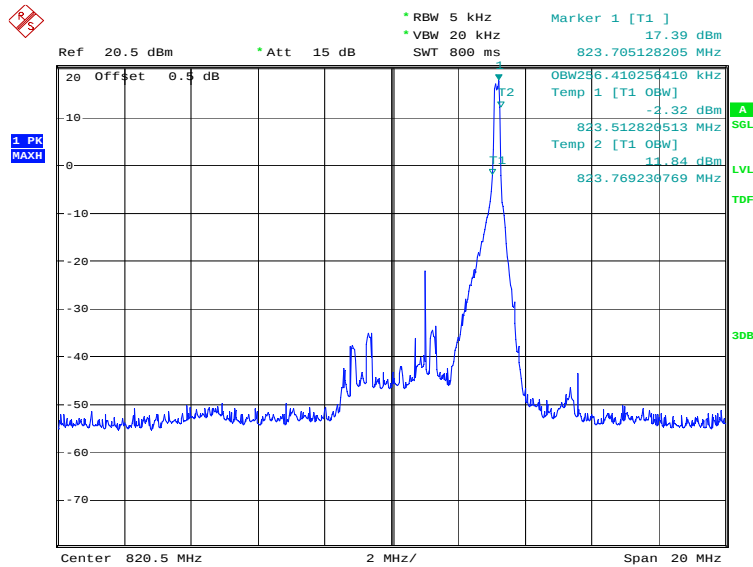
Date: 18.NOV.2021 11:23:40

LOW Emission Mask -1RB-low_offset



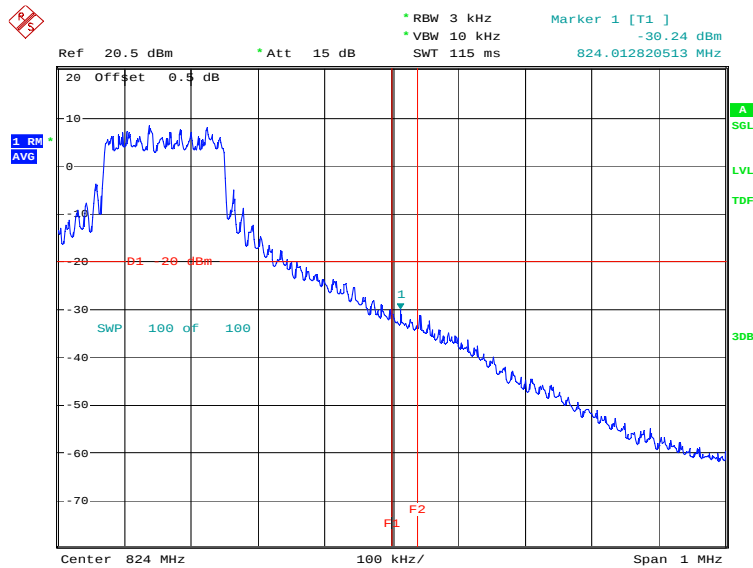
Date: 18.NOV.2021 11:25:58

OBW: 1RB-high_offset



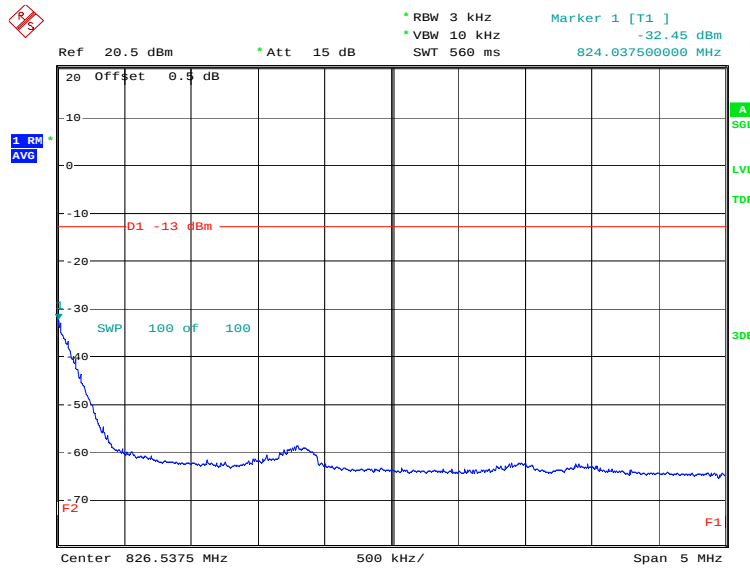
Date: 18.NOV.2021 11:26:34

HIGH BAND EDGE BLOCK-1RB-high_offset



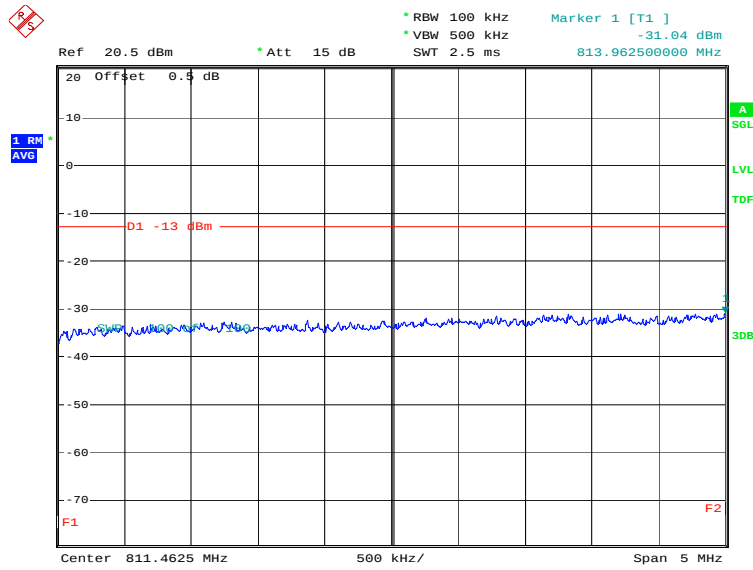
Date: 18.NOV.2021 11:28:05

HIGH Emission Mask -1RB-high_offset



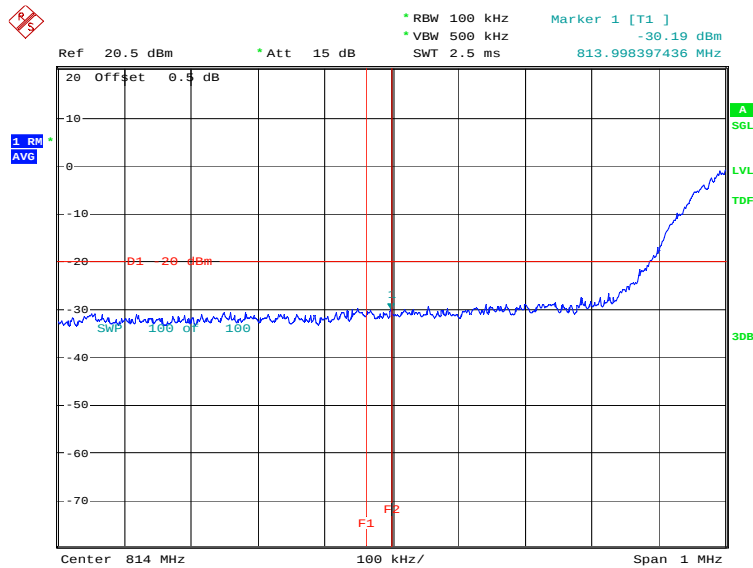
Date: 18.NOV.2021 11:30:21

LOW Emission Mask -10MHz-100%RB



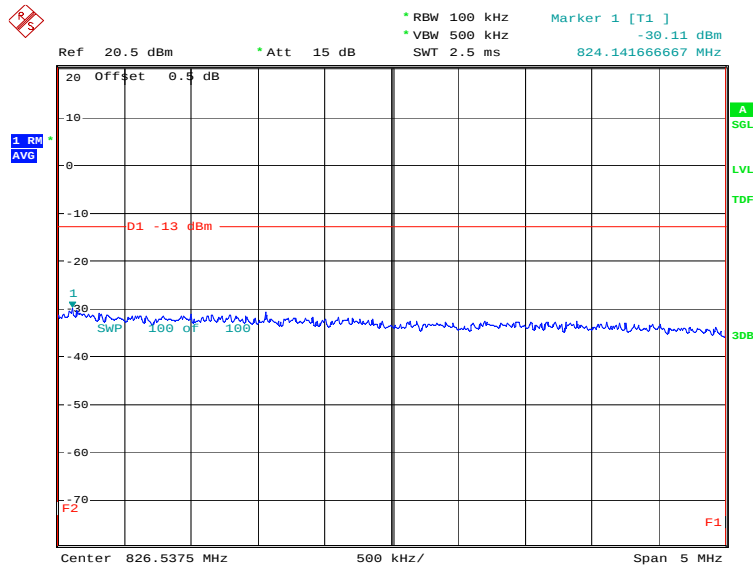
Date: 22.OCT.2021 19:08:26

LOW BAND EDGE BLOCK-10MHz-100%RB



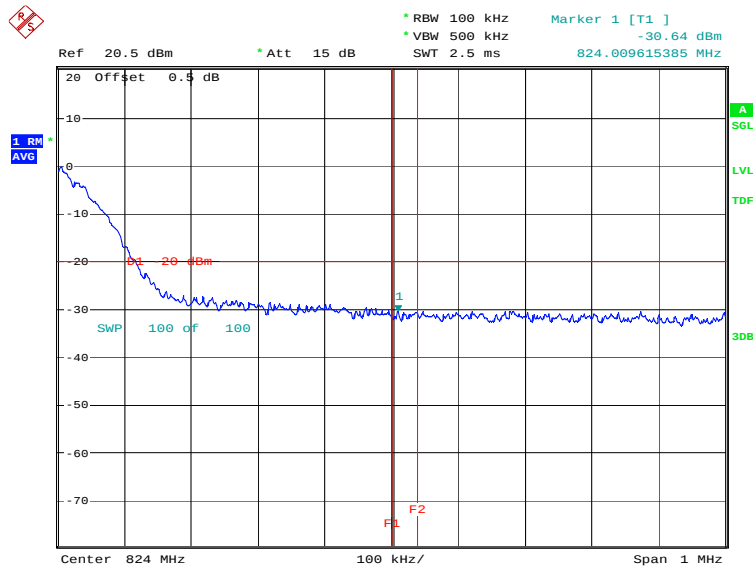
Date: 22.OCT.2021 19:08:04

HIGH Emission Mask -10MHz-100%RB



Date: 22.OCT.2021 19:12:42

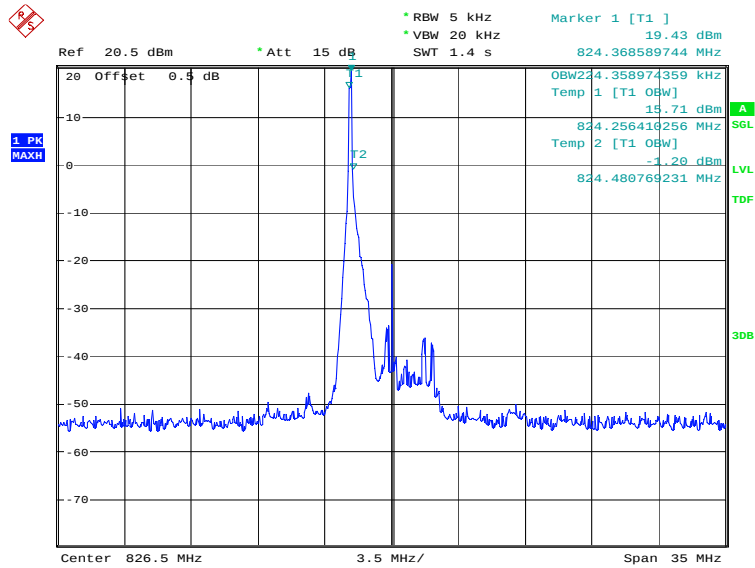
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 22.OCT.2021 19:12:21

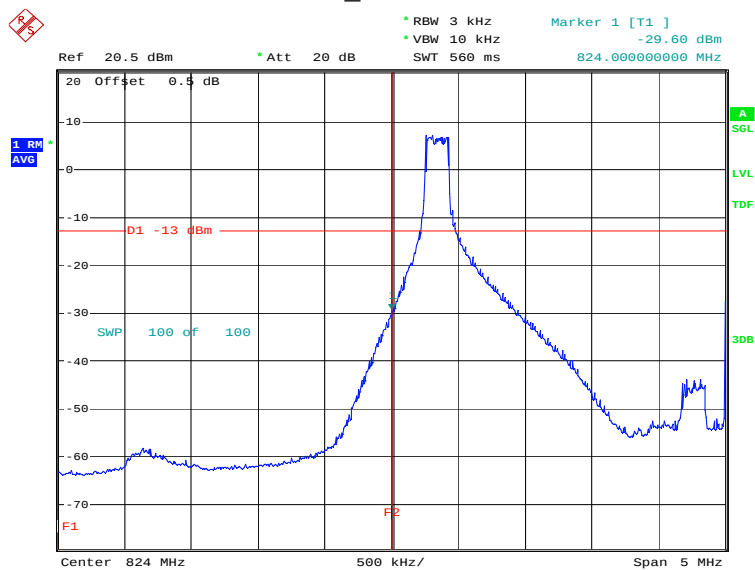
LTE band 26(824MHz~849MHz)

OBW: 1RB-low_offset



Date: 18.NOV.2021 11:11:03

LOW BAND EDGE BLOCK-1RB-low_offset



Date: 18.NOV.2021 11:12:17