



TEST REPORT

No.23T04Z80421-21

for

TCL Communication Ltd.

GSM/UMTS/LTE/NR Mobile phone

Model Name: T614D

FCC ID: 2ACCJH179

with

Hardware Version: 06

Software Version: 3CSF

Issued Date: 2023-12-29

Note:

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

Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
23T04Z80421-21	Rev.0	1 st edition	2023-12-29

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 American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA 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℃

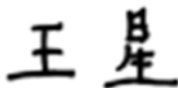
Relative Humidity: 20-75%

1.4. Project Data

Testing Start Date: 2023-11-01

Testing End Date: 2023-12-25

1.5. Signature



Wang Xing
(Prepared this test report)



Zhou Yu
(Reviewed this test report)



Zhao Hui Lin
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
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2.2. Manufacturer Information

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

3.1. About EUT

Description	GSM/UMTS/LTE/NR Mobile phone
Model Name	T614D
FCC ID	2ACCJH179
Antenna	Embedded
Output power	25.85 dBm maximum EIRP measured for LTE CA 41C
Extreme Voltage	3.6VDC to 4.4VDC (nominal: 3.85VDC)
Extreme Temperature	-10°C to +55°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Date of receipt
UT08a	016499000012548/	06	3CSF	2023-11-01
	016499000012589			
UT09a	016499000011540/	06	3CSF	2023-11-02
	016499000011565			
UT78a	016499000011300/	06	3CSF	2023-11-27
	016499000011318			

UT09a and UT78a were used for emission limit test and UT08a was used for other testing cases.

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

3.3. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery
AE2	Battery
AE1	
Model	TLp049FA
Manufacturer	TMB
Capacitance	5010mAh
AE2	
Model	TLp049F7
Manufacturer	Veken
Capacitance	5010mAh

*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 customer, which are the bases of testing. CAICT is not responsible for the accuracy of customer supplied technical information that may affect the test results (for example, antenna gain and loss of customer supplied cable).

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

5. 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 5

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

LTE Band 7

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

LTE Band 12

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

LTE Band 13

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

LTE Band 25

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

LTE Band 26(814MHz~824MHz)

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

LTE Band 26(824MHz~849MHz)

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

LTE Band 41 (38)

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

LTE Band 48

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	96.41	P
2	Emission Limit	NA	NA
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	96.41	P
6	Band Edge Compliance	96.41	P
7	Conducted Spurious Emission	96.41	P
8	Peak-to-Average Power Ratio	96.41	P

LTE Band 66 (4)

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

LTE Band 71

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

Terms used in Verdict column

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

All the test results are based on normal power.

Measurement uncertainty is not taken into account when stating conformity with a specified requirement.

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

LTE Band 41 is tested by power class 2.

Explanation of worst-case configuration

The worst-case scenario for all measurements is based on the conducted output power measurement investigation results. Output power was measured on QPSK, 16QAM, 64QAM and 256QAM modulations. It was found that QPSK was the worst case. All testing was performed using QPSK modulations to represent the worst case unless otherwise stated. The test results shown in the following sections represent the worst case emission.

Test Equipment Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Wideband Radio Communication Tester	CMW500	159082	R&S	2024-02-10	13 months
Spectrum Analyzer	FSU	200030	R&S	2024-06-25	13 months
Climate chamber	SH-241	92004642	ESPEC	2024-11-16	13 months
Signal&Spectrum Analyzer	FSW	104038	R&S	2024-07-25	13 months
Test Receiver	FSV30	101525	R&S	2024-02-11	13 months
EMI Antenna	VULB 9163	9163-235	Schwarzbeck	2024-06-10	13 months
EMI Antenna	9117	167	Schwarzbeck	2025-08-03	25 months
EMI Antenna	LB-7180-NF	J203001300005	A-INFO	2024-05-25	13 months
EMI Antenna	3115	00167252	ETS-Lindgren	2024-02-28	13 months
Signal Generator	SMF100A	104940	R&S	2024-01-14	13 months
Universal Radio Communication Tester	CMW500	143008	R&S	2024-02-03	13 months
Universal Radio Communication Tester	MT8821C	62724459649	Anritsu	2024-08-12	13 months

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.

The results below include a correction factor for cable loss that is provided by the customer.

A.1.2.2 Measurement Result

LTE band 2

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1909.3	23.06	23.40	22.30	18.38
		1880.0	22.98	23.28	22.11	18.64
		1850.7	22.93	23.09	21.90	18.23
	1 RB low	1909.3	23.10	23.32	22.21	18.43
		1880.0	22.82	23.16	21.97	18.50
		1850.7	22.84	22.98	22.03	18.45
	50% RB mid	1909.3	23.16	21.98	20.90	18.53
		1880.0	23.18	21.86	20.86	18.83
		1850.7	22.81	21.93	20.88	18.54
	100% RB	1909.3	23.10	21.90	20.95	18.73
		1880.0	22.94	21.96	20.84	18.58
		1850.7	22.89	21.96	20.92	18.50
3MHz	1 RB high	1908.5	23.24	23.33	22.19	18.72
		1880.0	22.96	23.23	22.13	18.46
		1851.5	22.91	22.99	21.92	18.44
	1 RB low	1908.5	23.01	23.38	22.23	18.39
		1880.0	22.95	23.12	22.08	18.33
		1851.5	22.99	23.11	22.11	18.63
	50% RB mid	1908.5	23.11	22.00	21.01	18.73
		1880.0	23.16	21.96	20.79	18.55
		1851.5	22.82	22.01	20.76	18.32
	100% RB	1908.5	23.13	22.00	20.87	18.89

		1880.0	22.89	21.86	20.90	18.65
		1851.5	22.82	21.78	20.84	18.29
5MHz	1 RB high	1907.5	23.15	23.39	22.26	18.51
		1880.0	23.03	23.18	22.11	18.78
		1852.5	22.83	23.02	21.99	18.55
	1 RB low	1907.5	23.04	23.31	22.18	18.65
		1880.0	22.89	23.12	21.98	18.49
		1852.5	22.91	23.06	22.01	18.56
	50% RB mid	1907.5	23.09	22.04	20.99	18.59
		1880.0	23.14	21.91	20.85	18.51
		1852.5	22.86	21.92	20.85	18.60
	100% RB	1907.5	23.04	21.98	20.95	18.70
		1880.0	22.91	21.95	20.92	18.30
		1852.5	22.83	21.87	20.90	18.61
10MHz	1 RB high	1905.0	23.20	23.39	22.25	18.98
		1880.0	23.07	23.14	22.11	18.82
		1855.0	22.90	23.00	22.04	18.51
	1 RB low	1905.0	22.99	23.31	22.13	18.38
		1880.0	22.89	23.11	21.91	18.44
		1855.0	22.84	23.10	21.98	18.35
	50% RB mid	1905.0	23.06	22.07	20.99	18.52
		1880.0	23.12	21.95	20.90	18.83
		1855.0	22.85	21.86	20.86	18.23
	100% RB	1905.0	22.98	21.95	21.03	18.59
		1880.0	22.96	21.97	20.91	18.47
		1855.0	22.84	21.88	20.83	18.26
15MHz	1 RB high	1902.5	23.20	23.38	22.28	18.81
		1880.0	23.00	23.11	22.09	18.30
		1857.5	22.92	23.05	22.06	18.40
	1 RB low	1902.5	23.00	23.27	22.10	18.62
		1880.0	22.91	23.10	21.98	18.51
		1857.5	22.89	23.12	21.97	18.48
	50% RB mid	1902.5	23.07	21.99	21.02	18.45
		1880.0	23.12	21.97	20.89	18.63
		1857.5	22.87	21.87	20.82	18.44
	100% RB	1902.5	22.96	21.99	21.03	18.53
		1880.0	22.94	21.97	20.92	18.24
		1857.5	22.86	21.91	20.87	18.32
20MHz	1 RB high	1900.0	23.23	23.44	22.34	18.53
		1880.0	23.09	23.19	22.18	18.65
		1860.0	22.93	23.07	22.09	18.22
	1 RB low	1900.0	23.06	23.33	22.20	18.39
		1880.0	22.93	23.14	22.01	18.61

		1860.0	22.93	23.14	22.04	18.40
	50% RB mid	1900.0	23.12	22.09	21.08	18.57
		1880.0	23.16	21.98	20.93	18.59
		1860.0	22.94	21.94	20.92	18.21
	100% RB	1900.0	23.06	22.05	21.05	18.49
		1880.0	22.97	21.98	20.99	18.55
		1860.0	22.90	21.92	20.91	18.25

LTE band 5

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	24.34	23.22	22.35	19.74
		836.5	24.33	23.40	22.44	19.90
		824.7	24.32	23.40	22.40	19.98
	1 RB low	848.3	24.31	23.34	22.37	20.02
		836.5	24.26	23.40	22.43	19.73
		824.7	24.24	23.34	22.45	19.51
	50% RB mid	848.3	23.24	22.27	21.39	18.54
		836.5	23.44	22.33	21.39	18.93
		824.7	23.25	22.27	21.41	18.59
	100% RB	848.3	23.25	22.36	21.35	19.02
		836.5	23.25	22.29	21.35	18.73
		824.7	23.24	22.29	21.37	18.54
3MHz	1 RB high	847.5	24.31	23.26	22.29	19.97
		836.5	24.33	23.35	22.43	19.64
		825.5	24.29	23.39	22.39	19.69
	1 RB low	847.5	24.32	23.31	22.41	20.01
		836.5	24.26	23.43	22.45	19.73
		825.5	24.25	23.34	22.49	19.76
	50% RB mid	847.5	23.23	22.21	21.32	18.62
		836.5	23.40	22.26	21.39	18.82
		825.5	23.26	22.25	21.46	18.55
	100% RB	847.5	23.24	22.28	21.33	18.84
		836.5	23.34	22.26	21.34	18.83
		825.5	23.31	22.29	21.38	18.58
5MHz	1 RB high	846.5	24.29	23.29	22.27	19.93
		836.5	24.32	23.40	22.48	19.83
		826.5	24.30	23.44	22.37	19.76
	1 RB low	846.5	24.32	23.39	22.40	19.66
		836.5	24.28	23.45	22.41	20.06
		826.5	24.26	23.39	22.42	19.67
	50% RB mid	846.5	23.24	22.23	21.38	18.93
		836.5	23.38	22.34	21.33	18.66
		826.5	23.26	22.25	21.45	18.80
	100% RB	846.5	23.22	22.32	21.31	18.99
		836.5	23.31	22.29	21.40	18.59
		826.5	23.30	22.27	21.37	18.70
10MHz	1 RB high	844.0	24.35	23.31	22.37	19.66
		836.5	24.36	23.45	22.50	20.01
		829.0	24.35	23.47	22.46	20.06
	1 RB low	844.0	24.36	23.41	22.45	20.14

		836.5	24.36	23.46	22.47	19.89
		829.0	24.34	23.40	22.50	19.91
	50% RB mid	844.0	23.30	22.30	21.41	18.61
		836.5	23.47	22.36	21.41	18.86
		829.0	23.32	22.35	21.49	18.62
	100% RB	844.0	23.30	22.37	21.40	18.60
		836.5	23.35	22.35	21.42	18.92
		829.0	23.33	22.34	21.45	18.67

LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	22.82	22.05	21.03	18.10
		2535.0	22.33	21.77	20.64	17.76
		2502.5	21.94	21.42	20.30	17.34
	1 RB low	2567.5	22.61	21.92	20.69	17.99
		2535.0	22.03	21.50	20.42	17.42
		2502.5	21.83	20.94	19.88	17.21
	50% RB mid	2567.5	21.69	20.62	19.59	17.09
		2535.0	21.83	20.35	19.32	17.23
		2502.5	20.97	20.00	19.00	16.33
	100% RB	2567.5	21.62	20.60	19.57	17.05
		2535.0	21.46	20.43	19.38	16.75
		2502.5	20.97	19.93	18.94	16.36
10MHz	1 RB high	2565.0	22.86	22.06	21.05	18.19
		2535.0	22.32	21.76	20.58	17.73
		2505.0	21.98	21.42	20.33	17.37
	1 RB low	2565.0	22.55	21.84	20.70	17.89
		2535.0	22.03	21.50	20.38	17.31
		2505.0	21.81	20.94	19.86	17.08
	50% RB mid	2565.0	21.69	20.62	19.65	17.05
		2535.0	21.81	20.37	19.29	17.17
		2505.0	21.01	20.00	19.00	16.34
	100% RB	2565.0	21.69	20.68	19.54	17.04
		2535.0	21.41	20.34	19.35	16.76
		2505.0	20.92	19.90	18.91	16.28
15MHz	1 RB high	2562.5	22.77	22.06	21.11	18.20
		2535.0	22.28	21.75	20.63	17.71
		2507.5	21.94	21.49	20.25	17.25
	1 RB low	2562.5	22.61	21.92	20.76	18.01
		2535.0	22.06	21.41	20.37	17.46
		2507.5	21.86	20.96	19.93	17.18
	50% RB mid	2562.5	21.72	20.64	19.61	17.01
		2535.0	21.78	20.40	19.31	17.09
		2507.5	21.00	19.97	18.98	16.33
	100% RB	2562.5	21.62	20.67	19.58	17.05
		2535.0	21.43	20.38	19.33	16.70
		2507.5	20.96	19.88	18.89	16.38
20MHz	1 RB high	2560.0	22.87	22.14	21.12	18.19
		2535.0	22.38	21.78	20.67	17.79
		2510.0	22.01	21.51	20.34	17.33
	1 RB low	2560.0	22.64	21.94	20.77	18.05

		2535.0	22.09	21.51	20.47	17.54
		2510.0	21.91	21.03	19.96	17.30
	50% RB mid	2560.0	21.76	20.69	19.67	17.21
		2535.0	21.86	20.42	19.38	17.17
		2510.0	21.06	20.07	19.02	16.46
	100% RB	2560.0	21.72	20.69	19.64	17.15
		2535.0	21.47	20.44	19.40	16.74
		2510.0	21.02	19.97	18.95	16.44

LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	24.35	23.33	22.36	19.75
		707.5	24.41	23.34	22.28	19.79
		699.7	24.42	23.39	22.35	19.69
	1 RB low	715.3	24.40	23.28	22.31	19.69
		707.5	24.34	23.40	22.33	19.72
		699.7	24.35	23.31	22.36	19.67
	50% RB mid	715.3	23.44	22.37	21.39	18.80
		707.5	23.39	22.46	21.41	18.82
		699.7	23.32	22.39	21.46	18.75
	100% RB	715.3	23.39	22.39	21.48	18.81
		707.5	23.44	22.41	21.42	18.80
		699.7	23.43	22.39	21.37	18.88
3MHz	1 RB high	714.5	24.37	23.31	22.36	19.71
		707.5	24.41	23.36	22.34	19.80
		700.5	24.41	23.36	22.43	19.72
	1 RB low	714.5	24.39	23.32	22.24	19.84
		707.5	24.36	23.44	22.27	19.67
		700.5	24.39	23.34	22.35	19.74
	50% RB mid	714.5	23.45	22.43	21.42	18.84
		707.5	23.43	22.48	21.49	18.82
		700.5	23.37	22.31	21.48	18.65
	100% RB	714.5	23.35	22.37	21.43	18.78
		707.5	23.44	22.43	21.42	18.84
		700.5	23.37	22.40	21.38	18.78
5MHz	1 RB high	713.5	24.30	23.39	22.31	19.70
		707.5	24.40	23.34	22.28	19.67
		701.5	24.38	23.36	22.41	19.76
	1 RB low	713.5	24.34	23.28	22.32	19.73
		707.5	24.38	23.42	22.36	19.69
		701.5	24.34	23.34	22.35	19.75
	50% RB mid	713.5	23.42	22.39	21.39	18.71
		707.5	23.47	22.47	21.47	18.84
		701.5	23.35	22.40	21.46	18.63
	100% RB	713.5	23.37	22.36	21.44	18.64
		707.5	23.43	22.42	21.45	18.71
		701.5	23.39	22.35	21.40	18.82
10MHz	1 RB high	711.0	24.39	23.41	22.41	19.77
		707.5	24.42	23.42	22.37	19.76
		704.0	24.44	23.45	22.45	19.77
	1 RB low	711.0	24.43	23.35	22.34	19.86

		707.5	24.42	23.47	22.37	19.86
		704.0	24.41	23.41	22.39	19.69
	50% RB mid	711.0	23.48	22.45	21.45	18.75
		707.5	23.49	22.50	21.50	18.78
		704.0	23.42	22.41	21.49	18.77
	100% RB	711.0	23.45	22.41	21.49	18.86
		707.5	23.45	22.50	21.47	18.84
		704.0	23.46	22.43	21.43	18.79

LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	23.96	23.26	22.12	19.32
		782.0	24.10	23.27	22.27	19.49
		779.5	24.02	23.22	22.23	19.43
	1 RB low	784.5	22.97	22.02	20.99	18.26
		782.0	23.88	23.27	22.19	19.28
		779.5	24.06	23.33	22.28	19.39
	50% RB mid	784.5	22.98	21.99	20.96	18.39
		782.0	22.96	22.01	21.04	18.40
		779.5	22.89	22.26	21.15	18.26
	100% RB	784.5	23.05	22.01	21.02	18.32
		782.0	22.97	21.99	20.99	18.31
		779.5	22.96	22.03	21.05	18.36
10MHz	1 RB high	782.0	23.98	23.35	22.21	19.38
	1 RB low	782.0	24.07	23.25	22.26	19.42
	50% RB mid	782.0	23.07	22.09	21.11	18.42
	100% RB	782.0	23.06	22.08	21.07	18.49

LTE band 25

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.11	23.39	22.34	18.47
		1882.5	22.89	23.16	22.08	18.31
		1850.7	22.88	23.07	21.98	18.20
	1 RB low	1914.3	22.88	23.23	22.06	18.18
		1882.5	22.85	23.07	22.11	18.23
		1850.7	22.96	23.04	22.04	18.24
	50% RB mid	1914.3	23.04	22.05	20.97	18.38
		1882.5	23.19	21.94	20.88	18.61
		1850.7	22.87	21.83	20.85	18.22
	100% RB	1914.3	23.04	22.01	21.06	18.47
		1882.5	22.95	21.96	20.96	18.40
		1850.7	22.85	21.83	20.86	18.18
3MHz	1 RB high	1913.5	23.09	23.38	22.37	18.40
		1882.5	22.94	23.14	22.09	18.27
		1851.5	22.83	23.15	21.96	18.13
	1 RB low	1913.5	22.88	23.23	22.08	18.23
		1882.5	22.87	23.04	22.13	18.27
		1851.5	22.90	23.01	22.01	18.27
	50% RB mid	1913.5	23.06	22.07	20.96	18.46
		1882.5	23.15	21.89	20.88	18.57
		1851.5	22.84	21.81	20.79	18.18
	100% RB	1913.5	22.96	22.02	21.01	18.39
		1882.5	22.94	21.92	20.95	18.29
		1851.5	22.84	21.79	20.78	18.20
5MHz	1 RB high	1912.5	23.13	23.42	22.40	18.46
		1882.5	22.89	23.23	22.11	18.28
		1852.5	22.84	23.15	21.97	18.16
	1 RB low	1912.5	22.88	23.29	22.06	18.28
		1882.5	22.85	23.01	22.04	18.26
		1852.5	22.90	23.07	21.99	18.32
	50% RB mid	1912.5	23.02	22.03	21.01	18.46
		1882.5	23.20	21.98	20.96	18.51
		1852.5	22.84	21.83	20.83	18.27
	100% RB	1912.5	23.01	21.99	20.98	18.41
		1882.5	22.86	21.90	20.91	18.24
		1852.5	22.84	21.84	20.82	18.26
10MHz	1 RB high	1910.0	23.07	23.42	22.36	18.42
		1882.5	22.88	23.15	22.09	18.25
		1855.0	22.90	23.15	22.02	18.33
	1 RB low	1910.0	22.88	23.26	22.04	18.25

		1882.5	22.88	23.04	22.11	18.25
		1855.0	22.96	23.09	21.95	18.39
	50% RB mid	1910.0	23.01	22.08	21.05	18.32
		1882.5	23.14	21.89	20.88	18.42
		1855.0	22.90	21.89	20.86	18.28
	100% RB	1910.0	23.02	22.06	21.01	18.31
		1882.5	22.93	21.91	20.96	18.31
		1855.0	22.82	21.83	20.82	18.16
15MHz	1 RB high	1907.5	23.12	23.41	22.37	18.46
		1882.5	22.96	23.15	22.17	18.37
		1857.5	22.85	23.10	21.98	18.22
	1 RB low	1907.5	22.88	23.29	22.08	18.18
		1882.5	22.85	23.03	22.05	18.13
		1857.5	22.93	23.09	22.01	18.32
	50% RB mid	1907.5	23.03	22.08	20.99	18.30
		1882.5	23.12	21.91	20.93	18.51
		1857.5	22.84	21.89	20.81	18.21
	100% RB	1907.5	23.01	22.02	21.04	18.42
		1882.5	22.88	21.94	20.93	18.16
		1857.5	22.80	21.79	20.79	18.07
20MHz	1 RB high	1905.0	23.16	23.46	22.42	18.61
		1882.5	22.98	23.24	22.18	18.37
		1860.0	22.91	23.17	22.06	18.19
	1 RB low	1905.0	22.96	23.32	22.12	18.32
		1882.5	22.90	23.09	22.14	18.19
		1860.0	22.99	23.11	22.05	18.34
	50% RB mid	1905.0	23.07	22.12	21.06	18.37
		1882.5	23.21	21.99	20.97	18.63
		1860.0	22.93	21.91	20.87	18.38
	100% RB	1905.0	23.06	22.08	21.07	18.47
		1882.5	22.96	21.97	21.01	18.36
		1860.0	22.87	21.88	20.88	18.14

LTE band 26(814MHz~824MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	23.98	23.23	21.85	19.28
		819.0	24.02	23.18	21.91	19.21
		814.7	24.04	23.13	22.58	19.31
	1 RB low	823.3	23.98	23.24	21.88	19.24
		819.0	24.03	23.06	21.72	19.20
		814.7	24.11	23.19	22.46	19.36
	50% RB mid	823.3	24.09	23.15	21.95	19.31
		819.0	24.17	23.24	21.95	19.22
		814.7	24.34	23.32	22.10	19.28
	100% RB	823.3	23.02	22.24	21.26	19.29
		819.0	23.09	22.33	21.19	19.32
		814.7	23.18	22.37	21.26	19.30
3MHz	1 RB high	822.5	23.95	23.03	21.78	19.26
		819.0	23.98	23.16	21.84	19.19
		815.5	24.07	23.25	21.95	19.19
	1 RB low	822.5	24.00	23.19	21.88	19.12
		819.0	24.03	23.21	21.68	19.19
		815.5	24.17	23.32	21.98	19.25
	50% RB mid	822.5	23.00	22.12	21.34	19.33
		819.0	23.03	22.16	21.23	19.25
		815.5	23.09	22.21	21.16	19.24
	100% RB	822.5	23.09	22.06	21.30	19.29
		819.0	23.13	22.08	21.27	19.24
		815.5	23.17	22.17	21.26	19.25
5MHz	1 RB high	821.5	24.14	23.19	22.28	19.41
		819.0	24.19	23.25	22.52	19.41
		816.5	24.18	23.26	22.53	19.40
	1 RB low	821.5	24.10	23.20	22.39	19.35
		819.0	24.26	23.31	22.51	19.35
		816.5	24.35	23.42	22.49	19.47
	50% RB mid	821.5	23.10	22.24	21.46	19.38
		819.0	23.11	22.25	21.46	19.38
		816.5	23.16	22.28	21.35	19.35
	100% RB	821.5	23.18	22.18	21.41	19.37
		819.0	23.21	22.18	21.37	19.35
		816.5	23.28	22.24	21.38	19.34
10MHz	1 RB high	819.0	24.14	23.28	22.06	19.49
	1 RB low	819.0	24.26	23.40	21.90	19.40
	50% RB mid	819.0	23.21	22.31	21.42	19.39
	100% RB	819.0	23.25	22.28	21.32	19.29

LTE band 26(824MHz~849MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	23.82	22.90	21.66	19.14
		836.5	24.05	23.20	21.94	19.20
		824.7	23.83	23.02	22.38	19.28
	1 RB low	848.3	23.83	22.91	21.76	19.10
		836.5	24.05	23.18	21.83	19.18
		824.7	23.84	22.91	22.19	19.28
	50% RB mid	848.3	24.03	23.10	21.82	19.21
		836.5	24.17	23.22	22.03	19.17
		824.7	24.13	23.17	21.90	19.26
	100% RB	848.3	22.95	22.18	21.31	19.25
		836.5	23.10	22.30	21.16	19.24
		824.7	22.98	22.18	21.21	19.29
3MHz	1 RB high	847.5	23.81	23.02	21.57	19.09
		836.5	24.02	23.17	21.94	19.18
		825.5	23.95	23.12	21.89	19.26
	1 RB low	847.5	23.87	23.07	21.71	19.03
		836.5	24.07	23.21	21.74	19.15
		825.5	23.95	23.13	21.70	19.17
	50% RB mid	847.5	22.86	22.05	21.17	19.16
		836.5	23.07	22.15	21.25	19.25
		825.5	23.01	22.10	21.18	19.30
	100% RB	847.5	22.98	21.99	21.17	19.16
		836.5	23.09	22.07	21.23	19.22
		825.5	23.04	22.00	21.29	19.26
5MHz	1 RB high	846.5	24.05	22.98	22.09	19.32
		836.5	24.23	23.28	22.33	19.35
		826.5	24.18	23.28	22.44	19.48
	1 RB low	846.5	24.11	23.08	22.30	19.29
		836.5	24.27	23.34	22.41	19.39
		826.5	24.18	23.20	22.38	19.37
	50% RB mid	846.5	22.96	22.11	21.33	19.24
		836.5	23.21	22.23	21.42	19.36
		826.5	23.11	22.19	21.40	19.42
	100% RB	846.5	23.09	22.03	21.28	19.24
		836.5	23.22	22.16	21.33	19.30
		826.5	23.16	22.11	21.39	19.38
10MHz	1 RB high	844.0	23.99	23.20	21.79	19.34
		836.5	24.15	23.26	22.03	19.31
		829.0	24.29	23.30	22.19	19.47
	1 RB low	844.0	24.17	23.22	21.94	19.33

		836.5	24.22	23.30	22.03	19.45
		829.0	24.13	23.21	21.99	19.40
	50% RB mid	844.0	23.08	22.21	21.21	19.25
		836.5	23.23	22.30	21.36	19.36
		829.0	23.19	22.26	21.44	19.42
	100% RB	844.0	23.14	22.16	21.18	19.15
		836.5	23.23	22.25	21.29	19.28
		829.0	23.20	22.22	21.36	19.34
15MHz	1 RB high	841.5	24.03	23.35	22.68	19.60
		836.5	24.23	23.54	22.67	19.55
		831.5	24.21	23.59	22.64	19.62
	1 RB low	841.5	24.27	23.62	22.47	19.69
		836.5	24.26	23.56	22.56	19.72
		831.5	24.09	23.47	22.60	19.66
	50% RB mid	841.5	23.13	22.17	21.19	19.23
		836.5	23.23	22.16	21.24	19.31
		831.5	23.27	22.16	21.34	19.35
	100% RB	841.5	23.17	22.23	21.27	19.29
		836.5	23.22	22.26	21.35	19.34
		831.5	23.19	22.22	21.36	19.37

LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	26.69	25.76	24.49	21.90
		2593.0	26.24	25.73	24.62	21.41
		2498.5	26.76	25.90	24.67	22.00
	1 RB low	2687.5	26.79	25.37	24.58	22.24
		2593.0	26.57	25.71	24.37	21.74
		2498.5	26.80	25.91	24.70	22.15
	50% RB mid	2687.5	25.90	24.76	23.87	21.11
		2593.0	25.66	24.31	23.50	21.04
		2498.5	25.71	24.73	23.70	21.11
	100% RB	2687.5	25.97	24.72	23.97	21.18
		2593.0	25.61	24.55	23.35	20.90
		2498.5	25.66	24.77	23.70	21.00
10MHz	1 RB high	2685.0	26.62	25.77	24.50	21.95
		2593.0	26.31	25.76	24.68	21.74
		2501.0	26.77	25.93	24.64	22.21
	1 RB low	2685.0	26.73	25.39	24.66	22.15
		2593.0	26.53	25.70	24.42	21.77
		2501.0	26.79	25.86	24.63	22.02
	50% RB mid	2685.0	25.97	24.75	23.93	21.29
		2593.0	25.62	24.32	23.42	21.06
		2501.0	25.69	24.68	23.67	20.89
	100% RB	2685.0	25.97	24.77	23.92	21.21
		2593.0	25.62	24.51	23.42	21.07
		2501.0	25.67	24.77	23.74	21.04
15MHz	1 RB high	2682.5	26.70	25.73	24.50	22.07
		2593.0	26.29	25.75	24.65	21.53
		2503.5	26.82	25.95	24.67	22.14
	1 RB low	2682.5	26.76	25.33	24.60	22.19
		2593.0	26.51	25.72	24.36	21.82
		2503.5	26.81	25.86	24.70	21.99
	50% RB mid	2682.5	25.90	24.75	23.87	21.25
		2593.0	25.66	24.28	23.48	20.91
		2503.5	25.69	24.65	23.69	20.92
	100% RB	2682.5	25.92	24.80	23.92	21.08
		2593.0	25.59	24.50	23.38	20.99
		2503.5	25.66	24.69	23.68	21.10
20MHz	1 RB high	2680.0	26.72	25.80	24.56	21.95
		2593.0	26.33	25.83	24.69	21.61
		2506.0	26.85	25.99	24.72	22.14
	1 RB low	2680.0	26.81	25.43	24.68	22.14

		2593.0	26.59	25.78	24.45	21.85
		2506.0	26.83	25.96	24.72	22.10
	50% RB mid	2680.0	25.99	24.81	23.97	21.40
		2593.0	25.67	24.36	23.51	20.90
		2506.0	25.76	24.75	23.74	20.94
	100% RB	2680.0	26.00	24.82	23.98	21.27
		2593.0	25.68	24.57	23.45	20.94
		2506.0	25.75	24.78	23.77	21.10

LTE band 48

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3697.5	22.74	21.93	20.57	18.18
		3625.0	22.77	21.93	20.51	18.22
		3552.5	22.70	21.70	20.36	18.05
	1 RB low	3697.5	22.65	21.90	20.47	18.04
		3625.0	22.69	21.75	20.32	18.11
		3552.5	22.58	21.52	20.21	17.97
	50% RB mid	3697.5	21.69	20.88	19.90	16.95
		3625.0	21.86	20.76	19.83	17.12
		3552.5	21.74	20.72	19.74	16.97
	100% RB	3697.5	21.72	20.85	19.92	17.04
		3625.0	21.76	20.79	19.82	17.02
		3552.5	21.64	20.66	19.70	17.12
10MHz	1 RB high	3695.0	22.74	21.95	20.56	18.22
		3625.0	22.76	21.88	20.57	18.09
		3555.0	22.74	21.76	20.37	17.96
	1 RB low	3695.0	22.67	21.93	20.47	18.08
		3625.0	22.61	21.68	20.37	17.95
		3555.0	22.61	21.60	20.15	17.95
	50% RB mid	3695.0	21.69	20.82	19.83	17.18
		3625.0	21.83	20.81	19.81	17.31
		3555.0	21.67	20.70	19.70	16.98
	100% RB	3695.0	21.74	20.87	19.89	17.10
		3625.0	21.75	20.83	19.77	16.94
		3555.0	21.66	20.74	19.64	16.92
15MHz	1 RB high	3692.5	22.79	22.00	20.53	18.27
		3625.0	22.84	21.88	20.54	18.32
		3557.5	22.68	21.70	20.37	18.00
	1 RB low	3692.5	22.66	21.86	20.52	18.00
		3625.0	22.65	21.72	20.29	17.96
		3557.5	22.57	21.53	20.13	17.95
	50% RB mid	3692.5	21.74	20.82	19.86	17.20
		3625.0	21.80	20.84	19.79	17.12
		3557.5	21.73	20.75	19.75	16.99
	100% RB	3692.5	21.76	20.88	19.88	17.25
		3625.0	21.73	20.76	19.81	17.18
		3557.5	21.67	20.67	19.66	17.04
20MHz	1 RB high	3690.0	22.82	22.03	20.63	18.17
		3625.0	22.85	21.97	20.59	18.20

	1 RB low	3560.0	22.76	21.78	20.40	18.14
		3690.0	22.70	21.94	20.53	18.09
		3625.0	22.70	21.78	20.39	17.95
		3560.0	22.62	21.62	20.23	18.09
	50% RB mid	3690.0	21.77	20.91	19.92	17.19
		3625.0	21.89	20.85	19.87	17.24
		3560.0	21.76	20.77	19.79	17.17
	100% RB	3690.0	21.78	20.93	19.93	17.02
		3625.0	21.81	20.86	19.85	17.15
		3560.0	21.69	20.76	19.72	16.92

LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	22.86	23.05	22.11	18.23
		1745.0	22.77	22.96	21.95	18.18
		1710.7	22.88	23.04	22.07	18.29
	1 RB low	1779.3	22.93	23.14	22.09	18.37
		1745.0	22.86	23.13	21.98	18.20
		1710.7	23.06	23.39	22.18	18.36
	50% RB mid	1779.3	23.01	22.01	20.97	18.40
		1745.0	23.20	21.80	20.78	18.52
		1710.7	23.02	21.99	20.95	18.19
	100% RB	1779.3	23.01	21.97	21.04	18.42
		1745.0	22.78	21.82	20.88	18.22
		1710.7	23.01	22.03	20.97	18.29
3MHz	1 RB high	1778.5	22.86	22.96	22.12	18.22
		1745.0	22.84	22.89	21.95	18.27
		1711.5	22.85	23.11	22.00	18.03
	1 RB low	1778.5	22.90	23.13	22.11	18.30
		1745.0	22.90	23.13	21.99	18.21
		1711.5	23.07	23.39	22.18	18.37
	50% RB mid	1778.5	22.96	22.00	20.92	18.15
		1745.0	23.18	21.78	20.78	18.47
		1711.5	23.02	21.95	20.96	18.19
	100% RB	1778.5	23.05	22.04	21.04	18.39
		1745.0	22.83	21.78	20.85	18.16
		1711.5	22.97	21.98	21.04	18.35
5MHz	1 RB high	1777.5	22.90	23.00	22.18	18.27
		1745.0	22.75	22.97	22.00	18.13
		1712.5	22.85	23.05	21.99	18.17
	1 RB low	1777.5	22.92	23.20	22.13	18.30
		1745.0	22.90	23.15	22.05	18.10
		1712.5	23.09	23.33	22.17	18.40
	50% RB mid	1777.5	22.96	22.01	20.95	18.38
		1745.0	23.24	21.80	20.85	18.46
		1712.5	23.02	22.00	21.01	18.35
	100% RB	1777.5	22.99	22.03	20.99	18.39
		1745.0	22.86	21.77	20.85	18.13
		1712.5	23.02	22.02	21.03	18.31
10MHz	1 RB high	1775.0	22.87	23.00	22.17	18.32
		1745.0	22.79	22.93	21.95	18.02
		1715.0	22.91	23.09	22.06	18.34
	1 RB low	1775.0	22.89	23.17	22.09	18.21

		1745.0	22.85	23.20	21.98	18.30
		1715.0	23.09	23.40	22.17	18.31
		1775.0	23.03	22.00	21.01	18.43
	50% RB mid	1745.0	23.24	21.79	20.77	18.66
		1715.0	22.98	21.95	20.98	18.35
		1775.0	22.97	21.99	21.01	18.20
	100% RB	1745.0	22.77	21.81	20.82	17.94
		1715.0	22.94	21.98	21.03	18.35
		1775.0	22.85	22.99	22.17	18.26
15MHz	1 RB high	1745.0	22.79	22.93	21.91	18.18
		1717.5	22.93	23.05	22.07	18.27
		1772.5	22.89	23.19	22.06	18.20
	1 RB low	1745.0	22.83	23.19	22.06	18.12
		1717.5	23.11	23.37	22.20	18.49
		1772.5	22.99	21.97	21.00	18.36
	50% RB mid	1745.0	23.26	21.83	20.78	18.61
		1717.5	22.98	22.01	20.93	18.16
		1772.5	23.04	21.98	20.99	18.47
	100% RB	1745.0	22.86	21.81	20.86	18.19
		1717.5	23.03	22.04	21.06	18.43
		1770.0	22.94	23.06	22.20	18.22
20MHz	1 RB high	1745.0	22.85	22.98	22.01	18.16
		1720.0	22.94	23.14	22.08	18.11
		1770.0	22.94	23.21	22.15	18.18
	1 RB low	1745.0	22.91	23.21	22.07	18.36
		1720.0	23.15	23.41	22.27	18.43
		1770.0	23.06	22.05	21.02	18.49
	50% RB mid	1745.0	23.27	21.88	20.87	18.50
		1720.0	23.06	22.03	21.03	18.40
		1770.0	23.06	22.07	21.06	18.51
	100% RB	1745.0	22.87	21.85	20.90	18.09
		1720.0	23.04	22.06	21.07	18.27
		1770.0	22.94	23.06	22.20	18.22

LTE band 71

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	23.29	22.58	21.51	18.66
		680.5	23.08	22.38	21.14	18.52
		665.5	23.03	22.31	21.24	18.43
	1 RB low	695.5	23.22	22.45	21.35	18.42
		680.5	23.44	22.62	21.55	18.71
		665.5	23.24	22.42	21.30	18.56
	50% RB mid	695.5	22.11	21.09	20.05	17.43
		680.5	22.47	21.06	20.09	17.84
		665.5	22.43	21.41	20.36	17.82
	100% RB	695.5	22.10	21.14	20.11	17.48
		680.5	22.14	21.11	20.15	17.53
		665.5	22.26	21.32	20.26	17.55
10MHz	1 RB high	693.0	23.31	22.52	21.45	18.54
		680.5	23.13	22.38	21.16	18.43
		668.0	23.04	22.24	21.18	18.22
	1 RB low	693.0	23.16	22.50	21.36	18.40
		680.5	23.43	22.65	21.50	18.74
		668.0	23.16	22.51	21.28	18.38
	50% RB mid	693.0	22.11	21.13	20.09	17.44
		680.5	22.45	21.08	20.08	17.77
		668.0	22.41	21.41	20.35	17.66
	100% RB	693.0	22.17	21.15	20.10	17.56
		680.5	22.19	21.14	20.19	17.60
		668.0	22.23	21.25	20.32	17.52
15MHz	1 RB high	690.5	23.36	22.55	21.44	18.53
		680.5	23.06	22.37	21.18	18.24
		670.5	23.11	22.30	21.18	18.46
	1 RB low	690.5	23.20	22.44	21.39	18.51
		680.5	23.42	22.57	21.49	18.59
		670.5	23.19	22.51	21.29	18.61
	50% RB mid	690.5	22.16	21.07	20.06	17.38
		680.5	22.44	21.05	20.12	17.70
		670.5	22.44	21.38	20.35	17.75
	100% RB	690.5	22.15	21.16	20.10	17.44
		680.5	22.12	21.10	20.10	17.35
		670.5	22.26	21.32	20.24	17.60
20MHz	1 RB high	688.0	23.38	22.59	21.53	18.68
		680.5	23.16	22.40	21.20	18.49
		673.0	23.13	22.33	21.25	18.48
	1 RB low	688.0	23.26	22.52	21.40	18.45

		680.5	23.52	22.66	21.58	18.75
		673.0	23.25	22.52	21.32	18.58
	50% RB mid	688.0	22.18	21.15	20.15	17.48
		680.5	22.48	21.13	20.16	17.83
		673.0	22.45	21.47	20.38	17.81
	100% RB	688.0	22.20	21.17	20.17	17.50
		680.5	22.21	21.20	20.20	17.44
		673.0	22.33	21.33	20.34	17.70

LTE CA Band 41C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/ 20MHz	2583.8	2595.5	QPSK	1	24	1	0	26.61
				25	0	100	0	24.61
			16QAM	1	24	1	0	25.18
				25	0	100	0	23.66
			64QAM	1	24	1	0	23.58
				25	0	100	0	23.66
			256QAM	1	24	1	0	26.77
				25	0	100	0	26.75
10MHz/ 15MHz	2585.9	2597.9	QPSK	1	49	1	0	26.87
				50	0	75	0	24.78
			16QAM	1	49	1	0	25.30
				50	0	75	0	23.76
			64QAM	1	49	1	0	23.59
				50	0	75	0	23.77
			256QAM	1	49	1	0	26.72
				50	0	75	0	26.84
10MHz/ 20MHz	2583.6	2598.0	QPSK	1	49	1	0	26.91
				50	0	100	0	24.82
			16QAM	1	49	1	0	25.12
				50	0	100	0	23.78
			64QAM	1	49	1	0	23.92
				50	0	100	0	23.79
			256QAM	1	49	1	0	26.80
				50	0	100	0	26.83
15MHz/ 10MHz	2588.1	2600.1	QPSK	1	74	1	0	26.90
				75	0	50	0	24.83
			16QAM	1	74	1	0	25.07
				75	0	50	0	23.78
			64QAM	1	74	1	0	23.88
				75	0	50	0	23.78
			256QAM	1	74	1	0	26.71
				75	0	50	0	24.89
15MHz/ 15MHz	2585.5	2600.5	QPSK	1	74	1	0	26.90
				75	0	75	0	24.80
			16QAM	1	74	1	0	25.38
				75	0	75	0	23.78
			64QAM	1	74	1	0	23.66
				75	0	75	0	23.82
			256QAM	1	74	1	0	26.80
				75	0	75	0	26.86

15MHz/ 20MHz	2583.3	2600.4	QPSK	1	74	1	0	26.96
				75	0	100	0	24.84
			16QAM	1	74	1	0	25.41
				75	0	100	0	23.82
			64QAM	1	74	1	0	23.70
				75	0	100	0	23.87
20MHz/ 5MHz	2590.5	2602.2	QPSK	1	74	1	0	26.85
				75	0	100	0	26.85
			16QAM	1	99	1	0	26.84
				100	0	25	0	24.87
			64QAM	1	99	1	0	25.24
				100	0	25	0	23.87
20MHz/ 10MHz	2588.1	2602.5	QPSK	1	99	1	0	23.92
				100	0	25	0	23.86
			16QAM	1	99	1	0	26.92
				100	0	25	0	23.86
			64QAM	1	99	1	0	26.93
				100	0	50	0	24.94
20MHz/ 15MHz	2585.6	2602.7	QPSK	1	99	1	0	25.54
				100	0	50	0	23.93
			16QAM	1	99	1	0	24.01
				100	0	50	0	23.97
			64QAM	1	99	1	0	26.89
				100	0	50	0	24.96
20MHz/ 20MHz	2583.1	2602.9	QPSK	1	99	1	0	26.99
				100	0	75	0	24.88
			16QAM	1	99	1	0	25.39
				100	0	75	0	23.86
			64QAM	1	99	1	0	24.08
				100	0	75	0	23.90
20MHz/ 20MHz	2583.1	2602.9	QPSK	1	99	1	0	26.89
				100	0	75	0	24.98
			16QAM	1	99	1	0	27.06
				100	0	100	0	24.92
			64QAM	1	99	1	0	25.45
				100	0	100	0	23.87
20MHz/ 20MHz	2583.1	2602.9	QPSK	1	99	1	0	24.13
				100	0	100	0	23.92
			16QAM	1	99	1	0	26.93
				100	0	100	0	24.99
			64QAM	1	99	1	0	26.93
				100	0	100	0	24.99

LTE CA Band 66B

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/ 5MHz	1752.6	1757.4	QPSK	1	24	1	0	23.82
				25	0	25	0	21.89
			16QAM	1	24	1	0	22.83
				25	0	25	0	20.91
			64QAM	1	24	1	0	20.81
				25	0	25	0	20.92
			256QAM	1	24	1	0	19.01
				25	0	25	0	19.00
5MHz/ 10MHz	1750.3	1757.5	QPSK	1	24	1	0	23.93
				25	0	50	0	21.97
			16QAM	1	24	1	0	22.97
				25	0	50	0	21.00
			64QAM	1	24	1	0	20.90
				25	0	50	0	21.05
			256QAM	1	24	1	0	19.12
				25	0	50	0	19.05
5MHz/ 15MHz	1748.1	1757.4	QPSK	1	24	1	0	23.96
				25	0	75	0	21.98
			16QAM	1	24	1	0	23.00
				25	0	75	0	21.00
			64QAM	1	24	1	0	21.00
				25	0	75	0	21.01
			256QAM	1	24	1	0	19.18
				25	0	75	0	19.06
10MHz/ 5MHz	1752.5	1759.7	QPSK	1	49	1	0	23.98
				50	0	25	0	21.99
			16QAM	1	49	1	0	23.06
				50	0	25	0	21.00
			64QAM	1	49	1	0	20.69
				50	0	25	0	20.99
			256QAM	1	49	1	0	19.03
				50	0	25	0	19.12
10MHz/ 10MHz	1750.1	1760	QPSK	1	49	1	0	23.98
				50	0	50	0	21.97
			16QAM	1	49	1	0	23.07
				50	0	50	0	20.98
			64QAM	1	49	1	0	20.73
				50	0	50	0	20.96
			256QAM	1	49	1	0	19.08
				50	0	50	0	19.07

15MHz/ 5MHz	1752.6	1761.9	QPSK	1	74	1	0	23.96
				75	0	25	0	21.96
			16QAM	1	74	1	0	22.91
				75	0	25	0	20.90
			64QAM	1	74	1	0	20.71
				75	0	25	0	20.95
			256QAM	1	74	1	0	19.04
				75	0	25	0	19.08

LTE CA Band 66C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/ 20MHz	1745.8	1757.5	QPSK	1	24	1	0	23.98
				25	0	100	0	22.00
			16QAM	1	24	1	0	23.05
				25	0	100	0	21.02
			64QAM	1	24	1	0	21.00
				25	0	100	0	21.01
			256QAM	1	24	1	0	19.23
				25	0	100	0	19.11
10MHz/ 15MHz	1747.9	1757.9	QPSK	1	49	1	0	24.05
				50	0	75	0	22.02
			16QAM	1	49	1	0	23.03
				50	0	75	0	21.02
			64QAM	1	49	1	0	20.83
				50	0	75	0	21.00
			256QAM	1	49	1	0	19.11
				50	0	75	0	19.09
10MHz/ 20MHz	1745.6	1760.0	QPSK	1	49	1	0	24.02
				50	0	100	0	22.06
			16QAM	1	49	1	0	23.20
				50	0	100	0	21.05
			64QAM	1	49	1	0	20.84
				50	0	100	0	21.06
			256QAM	1	49	1	0	19.13
				50	0	100	0	19.10
15MHz/ 10MHz	1750.1	1762.1	QPSK	1	74	1	0	24.03
				75	0	50	0	22.00
			16QAM	1	74	1	0	22.98
				75	0	50	0	20.93
			64QAM	1	74	1	0	20.72
				75	0	50	0	20.97
			256QAM	1	74	1	0	19.07
				75	0	50	0	19.06
15MHz/ 15MHz	1747.5	1762.5	QPSK	1	74	1	0	23.94
				75	0	75	0	22.04
			16QAM	1	74	1	0	23.13
				75	0	75	0	20.97
			64QAM	1	74	1	0	20.78
				75	0	75	0	21.00
			256QAM	1	74	1	0	19.03
				75	0	75	0	19.05

15MHz/ 20MHz	1745.3	1762.4	QPSK	1	74	1	0	24.05
				75	0	100	0	22.02
			16QAM	1	74	1	0	22.82
				75	0	100	0	21.00
			64QAM	1	74	1	0	21.04
				75	0	100	0	21.03
20MHz/ 5MHz	1752.5	1764.2	QPSK	1	74	1	0	19.06
				75	0	100	0	19.04
			16QAM	1	99	1	0	24.00
				100	0	25	0	21.95
			64QAM	1	99	1	0	23.01
				100	0	25	0	20.97
20MHz/ 10MHz	1750.1	1764.5	QPSK	1	99	1	0	21.10
				100	0	25	0	20.96
			16QAM	1	99	1	0	18.95
				100	0	25	0	18.98
			64QAM	1	99	1	0	24.03
				100	0	50	0	22.00
20MHz/ 15MHz	1747.6	1764.7	QPSK	1	99	1	0	22.98
				100	0	50	0	21.00
			16QAM	1	99	1	0	21.10
				100	0	50	0	21.03
			64QAM	1	99	1	0	18.92
				100	0	50	0	19.02
20MHz/ 20MHz	1745.1	1764.9	QPSK	1	99	1	0	23.99
				100	0	75	0	22.01
			16QAM	1	99	1	0	23.00
				100	0	75	0	20.96
			64QAM	1	99	1	0	21.16
				100	0	75	0	21.02
20MHz/ 20MHz	1745.1	1764.9	QPSK	1	99	1	0	18.92
				100	0	75	0	19.03
			16QAM	1	99	1	0	24.05
				100	0	100	0	21.99
			64QAM	1	99	1	0	23.04
				100	0	100	0	21.00
20MHz/ 20MHz	1745.1	1764.9	QPSK	1	99	1	0	21.16
				100	0	100	0	21.04
			16QAM	1	99	1	0	19.05
				100	0	100	0	19.00
			64QAM	1	99	1	0	24.05
				100	0	100	0	21.99

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

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".

TDD Band 48: Part 96.41(b) specifies the maximum effective isotropic radiated power(EIRP) of any End User Device must comply with the limits of 23dBm/10MHz".

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".

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:

$$\text{ERP or EIRP} = P_T + G_T - L_C$$

where;

- **ERP or EIRP** = effective radiated power or equivalent isotropically radiated power(expressed in the same units as P_T).
- P_T = transmitter output power, in this report the unit express as 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.

Alternatively, the EIRP can be determined from Equation above and then converted to ERP based on the maximum antenna gain relationship by applying the following equation:

$$\text{ERP} = \text{EIRP} - 2.15\text{dB}$$

Note: The antenna gain information was provided by the client. The laboratory is not responsible for identifying its authenticity during the test.

A.1.3.3 Limits and Measurement Results

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 =-0.15)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1909.3	23.06	23.40	22.30	18.38	22.91	23.25	22.15	18.23
		1880.0	22.98	23.28	22.11	18.64	22.83	23.13	21.96	18.49
		1850.7	22.93	23.09	21.90	18.23	22.78	22.94	21.75	18.08
	1 RB low	1909.3	23.10	23.32	22.21	18.43	22.95	23.17	22.06	18.28
		1880.0	22.82	23.16	21.97	18.50	22.67	23.01	21.82	18.35
		1850.7	22.84	22.98	22.03	18.45	22.69	22.83	21.88	18.30
	50% RB mid	1909.3	23.16	21.98	20.90	18.53	23.01	21.83	20.75	18.38
		1880.0	23.18	21.86	20.86	18.83	23.03	21.71	20.71	18.68
		1850.7	22.81	21.93	20.88	18.54	22.66	21.78	20.73	18.39
	100% RB	1909.3	23.10	21.90	20.95	18.73	22.95	21.75	20.80	18.58
		1880.0	22.94	21.96	20.84	18.58	22.79	21.81	20.69	18.43
		1850.7	22.89	21.96	20.92	18.50	22.74	21.81	20.77	18.35
3MHz	1 RB high	1908.5	23.24	23.33	22.19	18.72	23.09	23.18	22.04	18.57
		1880.0	22.96	23.23	22.13	18.46	22.81	23.08	21.98	18.31
		1851.5	22.91	22.99	21.92	18.44	22.76	22.84	21.77	18.29
	1 RB low	1908.5	23.01	23.38	22.23	18.39	22.86	23.23	22.08	18.24
		1880.0	22.95	23.12	22.08	18.33	22.80	22.97	21.93	18.18
		1851.5	22.99	23.11	22.11	18.63	22.84	22.96	21.96	18.48
	50% RB mid	1908.5	23.11	22.00	21.01	18.73	22.96	21.85	20.86	18.58
		1880.0	23.16	21.96	20.79	18.55	23.01	21.81	20.64	18.40
		1851.5	22.82	22.01	20.76	18.32	22.67	21.86	20.61	18.17
	100% RB	1908.5	23.13	22.00	20.87	18.89	22.98	21.85	20.72	18.74
		1880.0	22.89	21.86	20.90	18.65	22.74	21.71	20.75	18.50
		1851.5	22.82	21.78	20.84	18.29	22.67	21.63	20.69	18.14
5MHz	1 RB high	1907.5	23.15	23.39	22.26	18.51	23.00	23.24	22.11	18.36
		1880.0	23.03	23.18	22.11	18.78	22.88	23.03	21.96	18.63
		1852.5	22.83	23.02	21.99	18.55	22.68	22.87	21.84	18.40
	1 RB low	1907.5	23.04	23.31	22.18	18.65	22.89	23.16	22.03	18.50
		1880.0	22.89	23.12	21.98	18.49	22.74	22.97	21.83	18.34
		1852.5	22.91	23.06	22.01	18.56	22.76	22.91	21.86	18.41
	50% RB mid	1907.5	23.09	22.04	20.99	18.59	22.94	21.89	20.84	18.44
		1880.0	23.14	21.91	20.85	18.51	22.99	21.76	20.70	18.36
		1852.5	22.86	21.92	20.85	18.60	22.71	21.77	20.70	18.45
	100% RB	1907.5	23.04	21.98	20.95	18.70	22.89	21.83	20.80	18.55
		1880.0	22.91	21.95	20.92	18.30	22.76	21.80	20.77	18.15
		1852.5	22.83	21.87	20.90	18.61	22.68	21.72	20.75	18.46
10MHz	1 RB high	1905.0	23.20	23.39	22.25	18.98	23.05	23.24	22.10	18.83
		1880.0	23.07	23.14	22.11	18.82	22.92	22.99	21.96	18.67

			1855.0	22.90	23.00	22.04	18.51	22.75	22.85	21.89	18.36
		1 RB low	1905.0	22.99	23.31	22.13	18.38	22.84	23.16	21.98	18.23
			1880.0	22.89	23.11	21.91	18.44	22.74	22.96	21.76	18.29
			1855.0	22.84	23.10	21.98	18.35	22.69	22.95	21.83	18.20
		50% RB mid	1905.0	23.06	22.07	20.99	18.52	22.91	21.92	20.84	18.37
			1880.0	23.12	21.95	20.90	18.83	22.97	21.80	20.75	18.68
			1855.0	22.85	21.86	20.86	18.23	22.70	21.71	20.71	18.08
		100% RB	1905.0	22.98	21.95	21.03	18.59	22.83	21.80	20.88	18.44
			1880.0	22.96	21.97	20.91	18.47	22.81	21.82	20.76	18.32
			1855.0	22.84	21.88	20.83	18.26	22.69	21.73	20.68	18.11
15MHz	1 RB high		1902.5	23.20	23.38	22.28	18.81	23.05	23.23	22.13	18.66
			1880.0	23.00	23.11	22.09	18.30	22.85	22.96	21.94	18.15
			1857.5	22.92	23.05	22.06	18.40	22.77	22.90	21.91	18.25
	1 RB low		1902.5	23.00	23.27	22.10	18.62	22.85	23.12	21.95	18.47
			1880.0	22.91	23.10	21.98	18.51	22.76	22.95	21.83	18.36
			1857.5	22.89	23.12	21.97	18.48	22.74	22.97	21.82	18.33
	50% RB mid		1902.5	23.07	21.99	21.02	18.45	22.92	21.84	20.87	18.30
			1880.0	23.12	21.97	20.89	18.63	22.97	21.82	20.74	18.48
			1857.5	22.87	21.87	20.82	18.44	22.72	21.72	20.67	18.29
	100% RB		1902.5	22.96	21.99	21.03	18.53	22.81	21.84	20.88	18.38
			1880.0	22.94	21.97	20.92	18.24	22.79	21.82	20.77	18.09
			1857.5	22.86	21.91	20.87	18.32	22.71	21.76	20.72	18.17
20MHz	1 RB high		1900.0	23.23	23.44	22.34	18.53	23.08	23.29	22.19	18.38
			1880.0	23.09	23.19	22.18	18.65	22.94	23.04	22.03	18.50
			1860.0	22.93	23.07	22.09	18.22	22.78	22.92	21.94	18.07
	1 RB low		1900.0	23.06	23.33	22.20	18.39	22.91	23.18	22.05	18.24
			1880.0	22.93	23.14	22.01	18.61	22.78	22.99	21.86	18.46
			1860.0	22.93	23.14	22.04	18.40	22.78	22.99	21.89	18.25
	50% RB mid		1900.0	23.12	22.09	21.08	18.57	22.97	21.94	20.93	18.42
			1880.0	23.16	21.98	20.93	18.59	23.01	21.83	20.78	18.44
			1860.0	22.94	21.94	20.92	18.21	22.79	21.79	20.77	18.06
	100% RB		1900.0	23.06	22.05	21.05	18.49	22.91	21.90	20.90	18.34
			1880.0	22.97	21.98	20.99	18.55	22.82	21.83	20.84	18.40
			1860.0	22.90	21.92	20.91	18.25	22.75	21.77	20.76	18.10

LTE Band 5-ERP
Limits: $\leq 38.45\text{dBm}(7\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc =-2.32)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	24.34	23.22	22.35	19.74	19.87	18.75	17.88	17.88
		836.5	24.33	23.40	22.44	19.90	19.86	18.93	17.97	17.97
		824.7	24.32	23.40	22.40	19.98	19.85	18.93	17.93	17.93
	1 RB low	848.3	24.31	23.34	22.37	20.02	19.84	18.87	17.90	17.90
		836.5	24.26	23.40	22.43	19.73	19.79	18.93	17.96	17.96
		824.7	24.24	23.34	22.45	19.51	19.77	18.87	17.98	17.98
	50% RB mid	848.3	23.24	22.27	21.39	18.54	18.77	17.80	16.92	16.92
		836.5	23.44	22.33	21.39	18.93	18.97	17.86	16.92	16.92
		824.7	23.25	22.27	21.41	18.59	18.78	17.80	16.94	16.94
	100% RB	848.3	23.25	22.36	21.35	19.02	18.78	17.89	16.88	16.88
		836.5	23.25	22.29	21.35	18.73	18.78	17.82	16.88	16.88
		824.7	23.24	22.29	21.37	18.54	18.77	17.82	16.90	16.90
3MHz	1 RB high	847.5	24.31	23.26	22.29	19.97	19.84	18.79	17.82	17.82
		836.5	24.33	23.35	22.43	19.64	19.86	18.88	17.96	17.96
		825.5	24.29	23.39	22.39	19.69	19.82	18.92	17.92	17.92
	1 RB low	847.5	24.32	23.31	22.41	20.01	19.85	18.84	17.94	17.94
		836.5	24.26	23.43	22.45	19.73	19.79	18.96	17.98	17.98
		825.5	24.25	23.34	22.49	19.76	19.78	18.87	18.02	18.02
	50% RB mid	847.5	23.23	22.21	21.32	18.62	18.76	17.74	16.85	16.85
		836.5	23.40	22.26	21.39	18.82	18.93	17.79	16.92	16.92
		825.5	23.26	22.25	21.46	18.55	18.79	17.78	16.99	16.99
	100% RB	847.5	23.24	22.28	21.33	18.84	18.77	17.81	16.86	16.86
		836.5	23.34	22.26	21.34	18.83	18.87	17.79	16.87	16.87
		825.5	23.31	22.29	21.38	18.58	18.84	17.82	16.91	16.91
5MHz	1 RB high	846.5	24.29	23.29	22.27	19.93	19.82	18.82	17.80	17.80
		836.5	24.32	23.40	22.48	19.83	19.85	18.93	18.01	18.01
		826.5	24.30	23.44	22.37	19.76	19.83	18.97	17.90	17.90
	1 RB low	846.5	24.32	23.39	22.40	19.66	19.85	18.92	17.93	17.93
		836.5	24.28	23.45	22.41	20.06	19.81	18.98	17.94	17.94
		826.5	24.26	23.39	22.42	19.67	19.79	18.92	17.95	17.95
	50% RB mid	846.5	23.24	22.23	21.38	18.93	18.77	17.76	16.91	16.91
		836.5	23.38	22.34	21.33	18.66	18.91	17.87	16.86	16.86
		826.5	23.26	22.25	21.45	18.80	18.79	17.78	16.98	16.98
	100% RB	846.5	23.22	22.32	21.31	18.99	18.75	17.85	16.84	16.84
		836.5	23.31	22.29	21.40	18.59	18.84	17.82	16.93	16.93
		826.5	23.30	22.27	21.37	18.70	18.83	17.80	16.90	16.90
10MHz	1 RB high	844.0	24.35	23.31	22.37	19.66	19.88	18.84	17.90	17.90
		836.5	24.36	23.45	22.50	20.01	19.89	18.98	18.03	18.03
		829.0	24.35	23.47	22.46	20.06	19.88	19.00	17.99	17.99

	1 RB low	844.0	24.36	23.41	22.45	20.14	19.89	18.94	17.98	17.98
		836.5	24.36	23.46	22.47	19.89	19.89	18.99	18.00	18.00
		829.0	24.34	23.40	22.50	19.91	19.87	18.93	18.03	18.03
	50% RB mid	844.0	23.30	22.30	21.41	18.61	18.83	17.83	16.94	16.94
		836.5	23.47	22.36	21.41	18.86	19.00	17.89	16.94	16.94
		829.0	23.32	22.35	21.49	18.62	18.85	17.88	17.02	17.02
	100% RB	844.0	23.30	22.37	21.40	18.60	18.83	17.90	16.93	16.93
		836.5	23.35	22.35	21.42	18.92	18.88	17.88	16.95	16.95
		829.0	23.33	22.34	21.45	18.67	18.86	17.87	16.98	16.98

LTE Band 7-EIRP

Limits: ≤33dBm(2W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc =-0.35)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	22.82	22.05	21.03	18.10	22.47	21.70	20.68	17.75
		2535.0	22.33	21.77	20.64	17.76	21.98	21.42	20.29	17.41
		2502.5	21.94	21.42	20.30	17.34	21.59	21.07	19.95	16.99
	1 RB low	2567.5	22.61	21.92	20.69	17.99	22.26	21.57	20.34	17.64
		2535.0	22.03	21.50	20.42	17.42	21.68	21.15	20.07	17.07
		2502.5	21.83	20.94	19.88	17.21	21.48	20.59	19.53	16.86
	50% RB mid	2567.5	21.69	20.62	19.59	17.09	21.34	20.27	19.24	16.74
		2535.0	21.83	20.35	19.32	17.23	21.48	20.00	18.97	16.88
		2502.5	20.97	20.00	19.00	16.33	20.62	19.65	18.65	15.98
	100% RB	2567.5	21.62	20.60	19.57	17.05	21.27	20.25	19.22	16.70
		2535.0	21.46	20.43	19.38	16.75	21.11	20.08	19.03	16.40
		2502.5	20.97	19.93	18.94	16.36	20.62	19.58	18.59	16.01
10MHz	1 RB high	2565.0	22.86	22.06	21.05	18.19	22.51	21.71	20.70	17.84
		2535.0	22.32	21.76	20.58	17.73	21.97	21.41	20.23	17.38
		2505.0	21.98	21.42	20.33	17.37	21.63	21.07	19.98	17.02
	1 RB low	2565.0	22.55	21.84	20.70	17.89	22.20	21.49	20.35	17.54
		2535.0	22.03	21.50	20.38	17.31	21.68	21.15	20.03	16.96
		2505.0	21.81	20.94	19.86	17.08	21.46	20.59	19.51	16.73
	50% RB mid	2565.0	21.69	20.62	19.65	17.05	21.34	20.27	19.30	16.70
		2535.0	21.81	20.37	19.29	17.17	21.46	20.02	18.94	16.82
		2505.0	21.01	20.00	19.00	16.34	20.66	19.65	18.65	15.99
	100% RB	2565.0	21.69	20.68	19.54	17.04	21.34	20.33	19.19	16.69
		2535.0	21.41	20.34	19.35	16.76	21.06	19.99	19.00	16.41
		2505.0	20.92	19.90	18.91	16.28	20.57	19.55	18.56	15.93
15MHz	1 RB high	2562.5	22.77	22.06	21.11	18.20	22.42	21.71	20.76	17.85
		2535.0	22.28	21.75	20.63	17.71	21.93	21.40	20.28	17.36
		2507.5	21.94	21.49	20.25	17.25	21.59	21.14	19.90	16.90
	1 RB low	2562.5	22.61	21.92	20.76	18.01	22.26	21.57	20.41	17.66
		2535.0	22.06	21.41	20.37	17.46	21.71	21.06	20.02	17.11
		2507.5	21.86	20.96	19.93	17.18	21.51	20.61	19.58	16.83
	50% RB mid	2562.5	21.72	20.64	19.61	17.01	21.37	20.29	19.26	16.66
		2535.0	21.78	20.40	19.31	17.09	21.43	20.05	18.96	16.74
		2507.5	21.00	19.97	18.98	16.33	20.65	19.62	18.63	15.98
	100% RB	2562.5	21.62	20.67	19.58	17.05	21.27	20.32	19.23	16.70
		2535.0	21.43	20.38	19.33	16.70	21.08	20.03	18.98	16.35
		2507.5	20.96	19.88	18.89	16.38	20.61	19.53	18.54	16.03
20MHz	1 RB high	2560.0	22.87	22.14	21.12	18.19	22.52	21.79	20.77	17.84
		2535.0	22.38	21.78	20.67	17.79	22.03	21.43	20.32	17.44
		2510.0	22.01	21.51	20.34	17.33	21.66	21.16	19.99	16.98

	1 RB low	2560.0	22.64	21.94	20.77	18.05	22.29	21.59	20.42	17.70
		2535.0	22.09	21.51	20.47	17.54	21.74	21.16	20.12	17.19
		2510.0	21.91	21.03	19.96	17.30	21.56	20.68	19.61	16.95
	50% RB mid	2560.0	21.76	20.69	19.67	17.21	21.41	20.34	19.32	16.86
		2535.0	21.86	20.42	19.38	17.17	21.51	20.07	19.03	16.82
		2510.0	21.06	20.07	19.02	16.46	20.71	19.72	18.67	16.11
	100% RB	2560.0	21.72	20.69	19.64	17.15	21.37	20.34	19.29	16.80
		2535.0	21.47	20.44	19.40	16.74	21.12	20.09	19.05	16.39
		2510.0	21.02	19.97	18.95	16.44	20.67	19.62	18.60	16.09

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 =-1.72)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	24.35	23.33	22.36	19.75	20.48	19.46	18.49	18.49
		707.5	24.41	23.34	22.28	19.79	20.54	19.47	18.41	18.41
		699.7	24.42	23.39	22.35	19.69	20.55	19.52	18.48	18.48
	1 RB low	715.3	24.40	23.28	22.31	19.69	20.53	19.41	18.44	18.44
		707.5	24.34	23.40	22.33	19.72	20.47	19.53	18.46	18.46
		699.7	24.35	23.31	22.36	19.67	20.48	19.44	18.49	18.49
	50% RB mid	715.3	23.44	22.37	21.39	18.80	19.57	18.50	17.52	17.52
		707.5	23.39	22.46	21.41	18.82	19.52	18.59	17.54	17.54
		699.7	23.32	22.39	21.46	18.75	19.45	18.52	17.59	17.59
	100% RB	715.3	23.39	22.39	21.48	18.81	19.52	18.52	17.61	17.61
		707.5	23.44	22.41	21.42	18.80	19.57	18.54	17.55	17.55
		699.7	23.43	22.39	21.37	18.88	19.56	18.52	17.50	17.50
3MHz	1 RB high	714.5	24.37	23.31	22.36	19.71	20.50	19.44	18.49	18.49
		707.5	24.41	23.36	22.34	19.80	20.54	19.49	18.47	18.47
		700.5	24.41	23.36	22.43	19.72	20.54	19.49	18.56	18.56
	1 RB low	714.5	24.39	23.32	22.24	19.84	20.52	19.45	18.37	18.37
		707.5	24.36	23.44	22.27	19.67	20.49	19.57	18.40	18.40
		700.5	24.39	23.34	22.35	19.74	20.52	19.47	18.48	18.48
	50% RB mid	714.5	23.45	22.43	21.42	18.84	19.58	18.56	17.55	17.55
		707.5	23.43	22.48	21.49	18.82	19.56	18.61	17.62	17.62
		700.5	23.37	22.31	21.48	18.65	19.50	18.44	17.61	17.61
	100% RB	714.5	23.35	22.37	21.43	18.78	19.48	18.50	17.56	17.56
		707.5	23.44	22.43	21.42	18.84	19.57	18.56	17.55	17.55
		700.5	23.37	22.40	21.38	18.78	19.50	18.53	17.51	17.51
5MHz	1 RB high	713.5	24.30	23.39	22.31	19.70	20.43	19.52	18.44	18.44
		707.5	24.40	23.34	22.28	19.67	20.53	19.47	18.41	18.41
		701.5	24.38	23.36	22.41	19.76	20.51	19.49	18.54	18.54
	1 RB low	713.5	24.34	23.28	22.32	19.73	20.47	19.41	18.45	18.45
		707.5	24.38	23.42	22.36	19.69	20.51	19.55	18.49	18.49
		701.5	24.34	23.34	22.35	19.75	20.47	19.47	18.48	18.48
	50% RB mid	713.5	23.42	22.39	21.39	18.71	19.55	18.52	17.52	17.52
		707.5	23.47	22.47	21.47	18.84	19.60	18.60	17.60	17.60
		701.5	23.35	22.40	21.46	18.63	19.48	18.53	17.59	17.59
	100% RB	713.5	23.37	22.36	21.44	18.64	19.50	18.49	17.57	17.57
		707.5	23.43	22.42	21.45	18.71	19.56	18.55	17.58	17.58
		701.5	23.39	22.35	21.40	18.82	19.52	18.48	17.53	17.53
10MHz	1 RB high	711.0	24.39	23.41	22.41	19.77	20.52	19.54	18.54	18.54
		707.5	24.42	23.42	22.37	19.76	20.55	19.55	18.50	18.50
		704.0	24.44	23.45	22.45	19.77	20.57	19.58	18.58	18.58

	1 RB low	711.0	24.43	23.35	22.34	19.86	20.56	19.48	18.47	18.47
		707.5	24.42	23.47	22.37	19.86	20.55	19.60	18.50	18.50
		704.0	24.41	23.41	22.39	19.69	20.54	19.54	18.52	18.52
	50% RB mid	711.0	23.48	22.45	21.45	18.75	19.61	18.58	17.58	17.58
		707.5	23.49	22.50	21.50	18.78	19.62	18.63	17.63	17.63
		704.0	23.42	22.41	21.49	18.77	19.55	18.54	17.62	17.62
	100% RB	711.0	23.45	22.41	21.49	18.86	19.58	18.54	17.62	17.62
		707.5	23.45	22.50	21.47	18.84	19.58	18.63	17.60	17.60
		704.0	23.46	22.43	21.43	18.79	19.59	18.56	17.56	17.56

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 =-1.32)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	23.96	23.26	22.12	19.32	20.49	19.79	18.65	18.65
		782.0	24.10	23.27	22.27	19.49	20.63	19.80	18.80	18.80
		779.5	24.02	23.22	22.23	19.43	20.55	19.75	18.76	18.76
	1 RB low	784.5	22.97	22.02	20.99	18.26	19.50	18.55	17.52	17.52
		782.0	23.88	23.27	22.19	19.28	20.41	19.80	18.72	18.72
		779.5	24.06	23.33	22.28	19.39	20.59	19.86	18.81	18.81
	50% RB mid	784.5	22.98	21.99	20.96	18.39	19.51	18.52	17.49	17.49
		782.0	22.96	22.01	21.04	18.40	19.49	18.54	17.57	17.57
		779.5	22.89	22.26	21.15	18.26	19.42	18.79	17.68	17.68
	100% RB	784.5	23.05	22.01	21.02	18.32	19.58	18.54	17.55	17.55
		782.0	22.97	21.99	20.99	18.31	19.50	18.52	17.52	17.52
		779.5	22.96	22.03	21.05	18.36	19.49	18.56	17.58	17.58
10MHz	1 RB high	782.0	23.98	23.35	22.21	19.38	20.51	19.88	18.74	18.74
	1 RB low	782.0	24.07	23.25	22.26	19.42	20.60	19.78	18.79	18.79
	50% RB mid	782.0	23.07	22.09	21.11	18.42	19.60	18.62	17.64	17.64
	100% RB	782.0	23.06	22.08	21.07	18.49	19.59	18.61	17.60	17.60

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 =0.17)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.11	23.39	22.34	18.47	23.28	23.56	22.51	18.64
		1882.5	22.89	23.16	22.08	18.31	23.06	23.33	22.25	18.48
		1850.7	22.88	23.07	21.98	18.20	23.05	23.24	22.15	18.37
	1 RB low	1914.3	22.88	23.23	22.06	18.18	23.05	23.40	22.23	18.35
		1882.5	22.85	23.07	22.11	18.23	23.02	23.24	22.28	18.40
		1850.7	22.96	23.04	22.04	18.24	23.13	23.21	22.21	18.41
	50% RB mid	1914.3	23.04	22.05	20.97	18.38	23.21	22.22	21.14	18.55
		1882.5	23.19	21.94	20.88	18.61	23.36	22.11	21.05	18.78
		1850.7	22.87	21.83	20.85	18.22	23.04	22.00	21.02	18.39
	100% RB	1914.3	23.04	22.01	21.06	18.47	23.21	22.18	21.23	18.64
		1882.5	22.95	21.96	20.96	18.40	23.12	22.13	21.13	18.57
		1850.7	22.85	21.83	20.86	18.18	23.02	22.00	21.03	18.35
3MHz	1 RB high	1913.5	23.09	23.38	22.37	18.40	23.26	23.55	22.54	18.57
		1882.5	22.94	23.14	22.09	18.27	23.11	23.31	22.26	18.44
		1851.5	22.83	23.15	21.96	18.13	23.00	23.32	22.13	18.30
	1 RB low	1913.5	22.88	23.23	22.08	18.23	23.05	23.40	22.25	18.40
		1882.5	22.87	23.04	22.13	18.27	23.04	23.21	22.30	18.44
		1851.5	22.90	23.01	22.01	18.27	23.07	23.18	22.18	18.44
	50% RB mid	1913.5	23.06	22.07	20.96	18.46	23.23	22.24	21.13	18.63
		1882.5	23.15	21.89	20.88	18.57	23.32	22.06	21.05	18.74
		1851.5	22.84	21.81	20.79	18.18	23.01	21.98	20.96	18.35
	100% RB	1913.5	22.96	22.02	21.01	18.39	23.13	22.19	21.18	18.56
		1882.5	22.94	21.92	20.95	18.29	23.11	22.09	21.12	18.46
		1851.5	22.84	21.79	20.78	18.20	23.01	21.96	20.95	18.37
5MHz	1 RB high	1912.5	23.13	23.42	22.40	18.46	23.30	23.59	22.57	18.63
		1882.5	22.89	23.23	22.11	18.28	23.06	23.40	22.28	18.45
		1852.5	22.84	23.15	21.97	18.16	23.01	23.32	22.14	18.33
	1 RB low	1912.5	22.88	23.29	22.06	18.28	23.05	23.46	22.23	18.45
		1882.5	22.85	23.01	22.04	18.26	23.02	23.18	22.21	18.43
		1852.5	22.90	23.07	21.99	18.32	23.07	23.24	22.16	18.49
	50% RB mid	1912.5	23.02	22.03	21.01	18.46	23.19	22.20	21.18	18.63
		1882.5	23.20	21.98	20.96	18.51	23.37	22.15	21.13	18.68
		1852.5	22.84	21.83	20.83	18.27	23.01	22.00	21.00	18.44
	100% RB	1912.5	23.01	21.99	20.98	18.41	23.18	22.16	21.15	18.58
		1882.5	22.86	21.90	20.91	18.24	23.03	22.07	21.08	18.41
		1852.5	22.84	21.84	20.82	18.26	23.01	22.01	20.99	18.43
10MHz	1 RB high	1910.0	23.07	23.42	22.36	18.42	23.24	23.59	22.53	18.59
		1882.5	22.88	23.15	22.09	18.25	23.05	23.32	22.26	18.42
		1855.0	22.90	23.15	22.02	18.33	23.07	23.32	22.19	18.50

	1 RB low	1910.0	22.88	23.26	22.04	18.25	23.05	23.43	22.21	18.42
		1882.5	22.88	23.04	22.11	18.25	23.05	23.21	22.28	18.42
		1855.0	22.96	23.09	21.95	18.39	23.13	23.26	22.12	18.56
	50% RB mid	1910.0	23.01	22.08	21.05	18.32	23.18	22.25	21.22	18.49
		1882.5	23.14	21.89	20.88	18.42	23.31	22.06	21.05	18.59
		1855.0	22.90	21.89	20.86	18.28	23.07	22.06	21.03	18.45
	100% RB	1910.0	23.02	22.06	21.01	18.31	23.19	22.23	21.18	18.48
		1882.5	22.93	21.91	20.96	18.31	23.10	22.08	21.13	18.48
		1855.0	22.82	21.83	20.82	18.16	22.99	22.00	20.99	18.33
15MHz	1 RB high	1907.5	23.12	23.41	22.37	18.46	23.29	23.58	22.54	18.63
		1882.5	22.96	23.15	22.17	18.37	23.13	23.32	22.34	18.54
		1857.5	22.85	23.10	21.98	18.22	23.02	23.27	22.15	18.39
	1 RB low	1907.5	22.88	23.29	22.08	18.18	23.05	23.46	22.25	18.35
		1882.5	22.85	23.03	22.05	18.13	23.02	23.20	22.22	18.30
		1857.5	22.93	23.09	22.01	18.32	23.10	23.26	22.18	18.49
	50% RB mid	1907.5	23.03	22.08	20.99	18.30	23.20	22.25	21.16	18.47
		1882.5	23.12	21.91	20.93	18.51	23.29	22.08	21.10	18.68
		1857.5	22.84	21.89	20.81	18.21	23.01	22.06	20.98	18.38
	100% RB	1907.5	23.01	22.02	21.04	18.42	23.18	22.19	21.21	18.59
		1882.5	22.88	21.94	20.93	18.16	23.05	22.11	21.10	18.33
		1857.5	22.80	21.79	20.79	18.07	22.97	21.96	20.96	18.24
20MHz	1 RB high	1905.0	23.16	23.46	22.42	18.61	23.33	23.63	22.59	18.78
		1882.5	22.98	23.24	22.18	18.37	23.15	23.41	22.35	18.54
		1860.0	22.91	23.17	22.06	18.19	23.08	23.34	22.23	18.36
	1 RB low	1905.0	22.96	23.32	22.12	18.32	23.13	23.49	22.29	18.49
		1882.5	22.90	23.09	22.14	18.19	23.07	23.26	22.31	18.36
		1860.0	22.99	23.11	22.05	18.34	23.16	23.28	22.22	18.51
	50% RB mid	1905.0	23.07	22.12	21.06	18.37	23.24	22.29	21.23	18.54
		1882.5	23.21	21.99	20.97	18.63	23.38	22.16	21.14	18.80
		1860.0	22.93	21.91	20.87	18.38	23.10	22.08	21.04	18.55
	100% RB	1905.0	23.06	22.08	21.07	18.47	23.23	22.25	21.24	18.64
		1882.5	22.96	21.97	21.01	18.36	23.13	22.14	21.18	18.53
		1860.0	22.87	21.88	20.88	18.14	23.04	22.05	21.05	18.31

LTE Band 26(814MHz~824MHz)-ERP

Limits: ≤50dBm(100W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc =-2.44)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	23.98	23.23	21.85	19.28	19.39	18.64	17.26	17.26
		819.0	24.02	23.18	21.91	19.21	19.43	18.59	17.32	17.32
		814.7	24.04	23.13	22.58	19.31	19.45	18.54	17.99	17.99
	1 RB low	823.3	23.98	23.24	21.88	19.24	19.39	18.65	17.29	17.29
		819.0	24.03	23.06	21.72	19.20	19.44	18.47	17.13	17.13
		814.7	24.11	23.19	22.46	19.36	19.52	18.60	17.87	17.87
	50% RB mid	823.3	24.09	23.15	21.95	19.31	19.50	18.56	17.36	17.36
		819.0	24.17	23.24	21.95	19.22	19.58	18.65	17.36	17.36
		814.7	24.34	23.32	22.10	19.28	19.75	18.73	17.51	17.51
	100% RB	823.3	23.02	22.24	21.26	19.29	18.43	17.65	16.67	16.67
		819.0	23.09	22.33	21.19	19.32	18.50	17.74	16.60	16.60
		814.7	23.18	22.37	21.26	19.30	18.59	17.78	16.67	16.67
3MHz	1 RB high	822.5	23.95	23.03	21.78	19.26	19.36	18.44	17.19	17.19
		819.0	23.98	23.16	21.84	19.19	19.39	18.57	17.25	17.25
		815.5	24.07	23.25	21.95	19.19	19.48	18.66	17.36	17.36
	1 RB low	822.5	24.00	23.19	21.88	19.12	19.41	18.60	17.29	17.29
		819.0	24.03	23.21	21.68	19.19	19.44	18.62	17.09	17.09
		815.5	24.17	23.32	21.98	19.25	19.58	18.73	17.39	17.39
	50% RB mid	822.5	23.00	22.12	21.34	19.33	18.41	17.53	16.75	16.75
		819.0	23.03	22.16	21.23	19.25	18.44	17.57	16.64	16.64
		815.5	23.09	22.21	21.16	19.24	18.50	17.62	16.57	16.57
	100% RB	822.5	23.09	22.06	21.30	19.29	18.50	17.47	16.71	16.71
		819.0	23.13	22.08	21.27	19.24	18.54	17.49	16.68	16.68
		815.5	23.17	22.17	21.26	19.25	18.58	17.58	16.67	16.67
5MHz	1 RB high	821.5	24.14	23.19	22.28	19.41	19.55	18.60	17.69	17.69
		819.0	24.19	23.25	22.52	19.41	19.60	18.66	17.93	17.93
		816.5	24.18	23.26	22.53	19.40	19.59	18.67	17.94	17.94
	1 RB low	821.5	24.10	23.20	22.39	19.35	19.51	18.61	17.80	17.80
		819.0	24.26	23.31	22.51	19.35	19.67	18.72	17.92	17.92
		816.5	24.35	23.42	22.49	19.47	19.76	18.83	17.90	17.90
	50% RB mid	821.5	23.10	22.24	21.46	19.38	18.51	17.65	16.87	16.87
		819.0	23.11	22.25	21.46	19.38	18.52	17.66	16.87	16.87
		816.5	23.16	22.28	21.35	19.35	18.57	17.69	16.76	16.76
	100% RB	821.5	23.18	22.18	21.41	19.37	18.59	17.59	16.82	16.82
		819.0	23.21	22.18	21.37	19.35	18.62	17.59	16.78	16.78
		816.5	23.28	22.24	21.38	19.34	18.69	17.65	16.79	16.79
10MHz	1 RB high	819.0	24.14	23.28	22.06	19.49	19.55	18.69	17.47	17.47
	1 RB low	819.0	24.26	23.40	21.90	19.40	19.67	18.81	17.31	17.31
	50% RB	819.0	23.21	22.31	21.42	19.39	18.62	17.72	16.83	16.83



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	mid									
	100% RB	819.0	23.25	22.28	21.32	19.29	18.66	17.69	16.73	16.73

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 =-2.44)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	23.82	22.90	21.66	19.14	19.23	18.31	17.07	14.55
		836.5	24.05	23.20	21.94	19.20	19.46	18.61	17.35	14.61
		824.7	23.83	23.02	22.38	19.28	19.24	18.43	17.79	14.69
	1 RB low	848.3	23.83	22.91	21.76	19.10	19.24	18.32	17.17	14.51
		836.5	24.05	23.18	21.83	19.18	19.46	18.59	17.24	14.59
		824.7	23.84	22.91	22.19	19.28	19.25	18.32	17.60	14.69
	50% RB mid	848.3	24.03	23.10	21.82	19.21	19.44	18.51	17.23	14.62
		836.5	24.17	23.22	22.03	19.17	19.58	18.63	17.44	14.58
		824.7	24.13	23.17	21.90	19.26	19.54	18.58	17.31	14.67
	100% RB	848.3	22.95	22.18	21.31	19.25	18.36	17.59	16.72	14.66
		836.5	23.10	22.30	21.16	19.24	18.51	17.71	16.57	14.65
		824.7	22.98	22.18	21.21	19.29	18.39	17.59	16.62	14.70
3MHz	1 RB high	847.5	23.81	23.02	21.57	19.09	19.22	18.43	16.98	14.50
		836.5	24.02	23.17	21.94	19.18	19.43	18.58	17.35	14.59
		825.5	23.95	23.12	21.89	19.26	19.36	18.53	17.30	14.67
	1 RB low	847.5	23.87	23.07	21.71	19.03	19.28	18.48	17.12	14.44
		836.5	24.07	23.21	21.74	19.15	19.48	18.62	17.15	14.56
		825.5	23.95	23.13	21.70	19.17	19.36	18.54	17.11	14.58
	50% RB mid	847.5	22.86	22.05	21.17	19.16	18.27	17.46	16.58	14.57
		836.5	23.07	22.15	21.25	19.25	18.48	17.56	16.66	14.66
		825.5	23.01	22.10	21.18	19.30	18.42	17.51	16.59	14.71
	100% RB	847.5	22.98	21.99	21.17	19.16	18.39	17.40	16.58	14.57
		836.5	23.09	22.07	21.23	19.22	18.50	17.48	16.64	14.63
		825.5	23.04	22.00	21.29	19.26	18.45	17.41	16.70	14.67
5MHz	1 RB high	846.5	24.05	22.98	22.09	19.32	19.46	18.39	17.50	14.73
		836.5	24.23	23.28	22.33	19.35	19.64	18.69	17.74	14.76
		826.5	24.18	23.28	22.44	19.48	19.59	18.69	17.85	14.89
	1 RB low	846.5	24.11	23.08	22.30	19.29	19.52	18.49	17.71	14.70
		836.5	24.27	23.34	22.41	19.39	19.68	18.75	17.82	14.80
		826.5	24.18	23.20	22.38	19.37	19.59	18.61	17.79	14.78
	50% RB mid	846.5	22.96	22.11	21.33	19.24	18.37	17.52	16.74	14.65
		836.5	23.21	22.23	21.42	19.36	18.62	17.64	16.83	14.77
		826.5	23.11	22.19	21.40	19.42	18.52	17.60	16.81	14.83
	100% RB	846.5	23.09	22.03	21.28	19.24	18.50	17.44	16.69	14.65
		836.5	23.22	22.16	21.33	19.30	18.63	17.57	16.74	14.71
		826.5	23.16	22.11	21.39	19.38	18.57	17.52	16.80	14.79
10MHz	1 RB high	844.0	23.99	23.20	21.79	19.34	19.40	18.61	17.20	14.75
		836.5	24.15	23.26	22.03	19.31	19.56	18.67	17.44	14.72
		829.0	24.29	23.30	22.19	19.47	19.70	18.71	17.60	14.88

	1 RB low	844.0	24.17	23.22	21.94	19.33	19.58	18.63	17.35	14.74
		836.5	24.22	23.30	22.03	19.45	19.63	18.71	17.44	14.86
		829.0	24.13	23.21	21.99	19.40	19.54	18.62	17.40	14.81
	50% RB mid	844.0	23.08	22.21	21.21	19.25	18.49	17.62	16.62	14.66
		836.5	23.23	22.30	21.36	19.36	18.64	17.71	16.77	14.77
		829.0	23.19	22.26	21.44	19.42	18.60	17.67	16.85	14.83
	100% RB	844.0	23.14	22.16	21.18	19.15	18.55	17.57	16.59	14.56
		836.5	23.23	22.25	21.29	19.28	18.64	17.66	16.70	14.69
		829.0	23.20	22.22	21.36	19.34	18.61	17.63	16.77	14.75
15MHz	1 RB high	841.5	24.03	23.35	22.68	19.60	19.44	18.76	18.09	15.01
		836.5	24.23	23.54	22.67	19.55	19.64	18.95	18.08	14.96
		831.5	24.21	23.59	22.64	19.62	19.62	19.00	18.05	15.03
	1 RB low	841.5	24.27	23.62	22.47	19.69	19.68	19.03	17.88	15.10
		836.5	24.26	23.56	22.56	19.72	19.67	18.97	17.97	15.13
		831.5	24.09	23.47	22.60	19.66	19.50	18.88	18.01	15.07
	50% RB mid	841.5	23.13	22.17	21.19	19.23	18.54	17.58	16.60	14.64
		836.5	23.23	22.16	21.24	19.31	18.64	17.57	16.65	14.72
		831.5	23.27	22.16	21.34	19.35	18.68	17.57	16.75	14.76
	100% RB	841.5	23.17	22.23	21.27	19.29	18.58	17.64	16.68	14.70
		836.5	23.22	22.26	21.35	19.34	18.63	17.67	16.76	14.75
		831.5	23.19	22.22	21.36	19.37	18.60	17.63	16.77	14.78

LTE Band 41-EIRP

Limits: ≤33dBm(2W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc =-1.21)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	26.69	25.76	24.49	21.90	25.48	24.55	23.28	20.69
		2593.0	26.24	25.73	24.62	21.41	25.03	24.52	23.41	20.20
		2498.5	26.76	25.90	24.67	22.00	25.55	24.69	23.46	20.79
	1 RB low	2687.5	26.79	25.37	24.58	22.24	25.58	24.16	23.37	21.03
		2593.0	26.57	25.71	24.37	21.74	25.36	24.50	23.16	20.53
		2498.5	26.80	25.91	24.70	22.15	25.59	24.70	23.49	20.94
	50% RB mid	2687.5	25.90	24.76	23.87	21.11	24.69	23.55	22.66	19.90
		2593.0	25.66	24.31	23.50	21.04	24.45	23.10	22.29	19.83
		2498.5	25.71	24.73	23.70	21.11	24.50	23.52	22.49	19.90
	100% RB	2687.5	25.97	24.72	23.97	21.18	24.76	23.51	22.76	19.97
		2593.0	25.61	24.55	23.35	20.90	24.40	23.34	22.14	19.69
		2498.5	25.66	24.77	23.70	21.00	24.45	23.56	22.49	19.79
10MHz	1 RB high	2685.0	26.62	25.77	24.50	21.95	25.41	24.56	23.29	20.74
		2593.0	26.31	25.76	24.68	21.74	25.10	24.55	23.47	20.53
		2501.0	26.77	25.93	24.64	22.21	25.56	24.72	23.43	21.00
	1 RB low	2685.0	26.73	25.39	24.66	22.15	25.52	24.18	23.45	20.94
		2593.0	26.53	25.70	24.42	21.77	25.32	24.49	23.21	20.56
		2501.0	26.79	25.86	24.63	22.02	25.58	24.65	23.42	20.81
	50% RB mid	2685.0	25.97	24.75	23.93	21.29	24.76	23.54	22.72	20.08
		2593.0	25.62	24.32	23.42	21.06	24.41	23.11	22.21	19.85
		2501.0	25.69	24.68	23.67	20.89	24.48	23.47	22.46	19.68
	100% RB	2685.0	25.97	24.77	23.92	21.21	24.76	23.56	22.71	20.00
		2593.0	25.62	24.51	23.42	21.07	24.41	23.30	22.21	19.86
		2501.0	25.67	24.77	23.74	21.04	24.46	23.56	22.53	19.83
15MHz	1 RB high	2682.5	26.70	25.73	24.50	22.07	25.49	24.52	23.29	20.86
		2593.0	26.29	25.75	24.65	21.53	25.08	24.54	23.44	20.32
		2503.5	26.82	25.95	24.67	22.14	25.61	24.74	23.46	20.93
	1 RB low	2682.5	26.76	25.33	24.60	22.19	25.55	24.12	23.39	20.98
		2593.0	26.51	25.72	24.36	21.82	25.30	24.51	23.15	20.61
		2503.5	26.81	25.86	24.70	21.99	25.60	24.65	23.49	20.78
	50% RB mid	2682.5	25.90	24.75	23.87	21.25	24.69	23.54	22.66	20.04
		2593.0	25.66	24.28	23.48	20.91	24.45	23.07	22.27	19.70
		2503.5	25.69	24.65	23.69	20.92	24.48	23.44	22.48	19.71
	100% RB	2682.5	25.92	24.80	23.92	21.08	24.71	23.59	22.71	19.87
		2593.0	25.59	24.50	23.38	20.99	24.38	23.29	22.17	19.78
		2503.5	25.66	24.69	23.68	21.10	24.45	23.48	22.47	19.89
20MHz	1 RB high	2680.0	26.72	25.80	24.56	21.95	25.51	24.59	23.35	20.74
		2593.0	26.33	25.83	24.69	21.61	25.12	24.62	23.48	20.40
		2506.0	26.85	25.99	24.72	22.14	25.64	24.78	23.51	20.93

	1 RB low	2680.0	26.81	25.43	24.68	22.14	25.60	24.22	23.47	20.93
		2593.0	26.59	25.78	24.45	21.85	25.38	24.57	23.24	20.64
		2506.0	26.83	25.96	24.72	22.10	25.62	24.75	23.51	20.89
	50% RB mid	2680.0	25.99	24.81	23.97	21.40	24.78	23.60	22.76	20.19
		2593.0	25.67	24.36	23.51	20.90	24.46	23.15	22.30	19.69
		2506.0	25.76	24.75	23.74	20.94	24.55	23.54	22.53	19.73
	100% RB	2680.0	26.00	24.82	23.98	21.27	24.79	23.61	22.77	20.06
		2593.0	25.68	24.57	23.45	20.94	24.47	23.36	22.24	19.73
		2506.0	25.75	24.78	23.77	21.10	24.54	23.57	22.56	19.89

LTE Band 48-EIRP

Limits: $\leq 23\text{dBm}/10\text{MHz}$

Band	BW (MHz)	RB Allocation	Frequency (MHz)	Modulation	Conducted Power (dBm/10MHz)	EIRP (Gt-Lc ≈ -3.02) (dBm/10MHz)	Margin
48	BW_5M	1 RB low	3552.50	QPSK	23.88	20.86	2.14
48	BW_5M	1 RB high	3552.50	QPSK	23.97	20.95	2.05
48	BW_5M	100% RB	3552.50	QPSK	22.57	19.55	3.45
48	BW_5M	1 RB low	3552.50	16QAM	23.49	20.47	2.53
48	BW_5M	1 RB high	3552.50	16QAM	23.02	20.00	3.00
48	BW_5M	100% RB	3552.50	16QAM	21.54	18.52	4.48
48	BW_5M	1 RB low	3552.50	64QAM	21.97	18.95	4.05
48	BW_5M	1 RB high	3552.50	64QAM	21.97	18.95	4.05
48	BW_5M	100% RB	3552.50	64QAM	20.57	17.55	5.45
48	BW_5M	1 RB low	3552.50	256QAM	19.26	16.24	6.76
48	BW_5M	1 RB high	3552.50	256QAM	19.13	16.11	6.89
48	BW_5M	100% RB	3552.50	256QAM	18.71	15.69	7.31
48	BW_5M	1 RB low	3625.00	QPSK	24.11	21.09	1.91
48	BW_5M	1 RB high	3625.00	QPSK	24.76	21.74	1.26
48	BW_5M	100% RB	3625.00	QPSK	23.59	20.57	2.43
48	BW_5M	1 RB low	3625.00	16QAM	24.02	21.00	2.00
48	BW_5M	1 RB high	3625.00	16QAM	23.21	20.19	2.81
48	BW_5M	100% RB	3625.00	16QAM	22.59	19.57	3.43
48	BW_5M	1 RB low	3625.00	64QAM	22.54	19.52	3.48
48	BW_5M	1 RB high	3625.00	64QAM	22.25	19.23	3.77
48	BW_5M	100% RB	3625.00	64QAM	20.74	17.72	5.28
48	BW_5M	1 RB low	3625.00	256QAM	19.31	16.29	6.71
48	BW_5M	1 RB high	3625.00	256QAM	19.29	16.27	6.73
48	BW_5M	100% RB	3625.00	256QAM	19.61	16.59	6.41
48	BW_5M	1 RB low	3697.50	QPSK	23.86	20.84	2.16
48	BW_5M	1 RB high	3697.50	QPSK	24.19	21.17	1.83
48	BW_5M	100% RB	3697.50	QPSK	22.69	19.67	3.33
48	BW_5M	1 RB low	3697.50	16QAM	23.02	20.00	3.00
48	BW_5M	1 RB high	3697.50	16QAM	23.14	20.12	2.88
48	BW_5M	100% RB	3697.50	16QAM	21.61	18.59	4.41
48	BW_5M	1 RB low	3697.50	64QAM	22.02	19.00	4.00
48	BW_5M	1 RB high	3697.50	64QAM	22.62	19.60	3.40
48	BW_5M	100% RB	3697.50	64QAM	20.59	17.57	5.43
48	BW_5M	1 RB low	3697.50	256QAM	19.06	16.04	6.96
48	BW_5M	1 RB high	3697.50	256QAM	19.50	16.48	6.52
48	BW_5M	100% RB	3697.50	256QAM	18.78	15.76	7.24
48	BW_10M	1 RB low	3555.00	QPSK	23.99	20.97	2.03

48	BW_10M	1 RB high	3555.00	QPSK	24.02	21.00	2.00
48	BW_10M	100% RB	3555.00	QPSK	21.95	18.93	4.07
48	BW_10M	1 RB low	3555.00	16QAM	23.33	20.31	2.69
48	BW_10M	1 RB high	3555.00	16QAM	23.14	20.12	2.88
48	BW_10M	100% RB	3555.00	16QAM	20.87	17.85	5.15
48	BW_10M	1 RB low	3555.00	64QAM	22.01	18.99	4.01
48	BW_10M	1 RB high	3555.00	64QAM	22.05	19.03	3.97
48	BW_10M	100% RB	3555.00	64QAM	19.81	16.79	6.21
48	BW_10M	1 RB low	3555.00	256QAM	19.15	16.13	6.87
48	BW_10M	1 RB high	3555.00	256QAM	19.25	16.23	6.77
48	BW_10M	100% RB	3555.00	256QAM	17.97	14.95	8.05
48	BW_10M	1 RB low	3625.00	QPSK	24.10	21.08	1.92
48	BW_10M	1 RB high	3625.00	QPSK	24.20	21.18	1.82
48	BW_10M	100% RB	3625.00	QPSK	22.15	19.13	3.87
48	BW_10M	1 RB low	3625.00	16QAM	23.50	20.48	2.52
48	BW_10M	1 RB high	3625.00	16QAM	23.29	20.27	2.73
48	BW_10M	100% RB	3625.00	16QAM	22.15	19.13	3.87
48	BW_10M	1 RB low	3625.00	64QAM	22.29	19.27	3.73
48	BW_10M	1 RB high	3625.00	64QAM	22.16	19.14	3.86
48	BW_10M	100% RB	3625.00	64QAM	20.19	17.17	5.83
48	BW_10M	1 RB low	3625.00	256QAM	19.26	16.24	6.76
48	BW_10M	1 RB high	3625.00	256QAM	19.34	16.32	6.68
48	BW_10M	100% RB	3625.00	256QAM	18.73	15.71	7.29
48	BW_10M	1 RB low	3695.00	QPSK	23.92	20.90	2.10
48	BW_10M	1 RB high	3695.00	QPSK	24.05	21.03	1.97
48	BW_10M	100% RB	3695.00	QPSK	21.97	18.95	4.05
48	BW_10M	1 RB low	3695.00	16QAM	23.11	20.09	2.91
48	BW_10M	1 RB high	3695.00	16QAM	23.20	20.18	2.82
48	BW_10M	100% RB	3695.00	16QAM	20.88	17.86	5.14
48	BW_10M	1 RB low	3695.00	64QAM	21.98	18.96	4.04
48	BW_10M	1 RB high	3695.00	64QAM	22.07	19.05	3.95
48	BW_10M	100% RB	3695.00	64QAM	19.84	16.82	6.18
48	BW_10M	1 RB low	3695.00	256QAM	19.48	16.46	6.54
48	BW_10M	1 RB high	3695.00	256QAM	19.18	16.16	6.84
48	BW_10M	100% RB	3695.00	256QAM	17.97	14.95	8.05
48	BW_15M	1 RB low	3557.50	QPSK	23.91	20.89	2.11
48	BW_15M	1 RB high	3557.50	QPSK	24.11	21.09	1.91
48	BW_15M	100% RB	3557.50	QPSK	20.74	17.72	5.28
48	BW_15M	1 RB low	3557.50	16QAM	23.16	20.14	2.86
48	BW_15M	1 RB high	3557.50	16QAM	23.21	20.19	2.81
48	BW_15M	100% RB	3557.50	16QAM	19.54	16.52	6.48
48	BW_15M	1 RB low	3557.50	64QAM	22.04	19.02	3.98
48	BW_15M	1 RB high	3557.50	64QAM	22.14	19.12	3.88

48	BW_15M	100% RB	3557.50	64QAM	18.60	15.58	7.42
48	BW_15M	1 RB low	3557.50	256QAM	19.07	16.05	6.95
48	BW_15M	1 RB high	3557.50	256QAM	19.31	16.29	6.71
48	BW_15M	100% RB	3557.50	256QAM	16.68	13.66	9.34
48	BW_15M	1 RB low	3625.00	QPSK	24.13	21.11	1.89
48	BW_15M	1 RB high	3625.00	QPSK	24.14	21.12	1.88
48	BW_15M	100% RB	3625.00	QPSK	20.79	17.77	5.23
48	BW_15M	1 RB low	3625.00	16QAM	23.28	20.26	2.74
48	BW_15M	1 RB high	3625.00	16QAM	23.31	20.29	2.71
48	BW_15M	100% RB	3625.00	16QAM	19.72	16.70	6.30
48	BW_15M	1 RB low	3625.00	64QAM	22.17	19.15	3.85
48	BW_15M	1 RB high	3625.00	64QAM	22.16	19.14	3.86
48	BW_15M	100% RB	3625.00	64QAM	18.67	15.65	7.35
48	BW_15M	1 RB low	3625.00	256QAM	19.25	16.23	6.77
48	BW_15M	1 RB high	3625.00	256QAM	19.28	16.26	6.74
48	BW_15M	100% RB	3625.00	256QAM	16.76	13.74	9.26
48	BW_15M	1 RB low	3692.50	QPSK	23.86	20.84	2.16
48	BW_15M	1 RB high	3692.50	QPSK	24.03	21.01	1.99
48	BW_15M	100% RB	3692.50	QPSK	20.63	17.61	5.39
48	BW_15M	1 RB low	3692.50	16QAM	23.01	19.99	3.01
48	BW_15M	1 RB high	3692.50	16QAM	23.17	20.15	2.85
48	BW_15M	100% RB	3692.50	16QAM	19.56	16.54	6.46
48	BW_15M	1 RB low	3692.50	64QAM	21.94	18.92	4.08
48	BW_15M	1 RB high	3692.50	64QAM	22.06	19.04	3.96
48	BW_15M	100% RB	3692.50	64QAM	18.47	15.45	7.55
48	BW_15M	1 RB low	3692.50	256QAM	19.10	16.08	6.92
48	BW_15M	1 RB high	3692.50	256QAM	19.17	16.15	6.85
48	BW_15M	100% RB	3692.50	256QAM	16.60	13.58	9.42
48	BW_20M	1 RB low	3560.00	QPSK	23.91	20.89	2.11
48	BW_20M	1 RB high	3560.00	QPSK	24.08	21.06	1.94
48	BW_20M	100% RB	3560.00	QPSK	19.67	16.65	6.35
48	BW_20M	1 RB low	3560.00	16QAM	23.15	20.13	2.87
48	BW_20M	1 RB high	3560.00	16QAM	23.37	20.35	2.65
48	BW_20M	100% RB	3560.00	16QAM	18.59	15.57	7.43
48	BW_20M	1 RB low	3560.00	64QAM	22.10	19.08	3.92
48	BW_20M	1 RB high	3560.00	64QAM	22.29	19.27	3.73
48	BW_20M	100% RB	3560.00	64QAM	17.55	14.53	8.47
48	BW_20M	1 RB low	3560.00	256QAM	19.29	16.27	6.73
48	BW_20M	1 RB high	3560.00	256QAM	19.45	16.43	6.57
48	BW_20M	100% RB	3560.00	256QAM	15.65	12.63	10.37
48	BW_20M	1 RB low	3625.00	QPSK	24.13	21.11	1.89
48	BW_20M	1 RB high	3625.00	QPSK	24.08	21.06	1.94
48	BW_20M	100% RB	3625.00	QPSK	19.79	16.77	6.23

48	BW_20M	1 RB low	3625.00	16QAM	23.39	20.37	2.63
48	BW_20M	1 RB high	3625.00	16QAM	23.28	20.26	2.74
48	BW_20M	100% RB	3625.00	16QAM	18.71	15.69	7.31
48	BW_20M	1 RB low	3625.00	64QAM	22.31	19.29	3.71
48	BW_20M	1 RB high	3625.00	64QAM	22.28	19.26	3.74
48	BW_20M	100% RB	3625.00	64QAM	17.64	14.62	8.38
48	BW_20M	1 RB low	3625.00	256QAM	19.45	16.43	6.57
48	BW_20M	1 RB high	3625.00	256QAM	19.40	16.38	6.62
48	BW_20M	100% RB	3625.00	256QAM	15.75	12.73	10.27
48	BW_20M	1 RB low	3690.00	QPSK	23.86	20.84	2.16
48	BW_20M	1 RB high	3690.00	QPSK	24.05	21.03	1.97
48	BW_20M	100% RB	3690.00	QPSK	19.62	16.60	6.40
48	BW_20M	1 RB low	3690.00	16QAM	23.10	20.08	2.92
48	BW_20M	1 RB high	3690.00	16QAM	23.32	20.30	2.70
48	BW_20M	100% RB	3690.00	16QAM	18.55	15.53	7.47
48	BW_20M	1 RB low	3690.00	64QAM	22.03	19.01	3.99
48	BW_20M	1 RB high	3690.00	64QAM	22.17	19.15	3.85
48	BW_20M	100% RB	3690.00	64QAM	17.50	14.48	8.52
48	BW_20M	1 RB low	3690.00	256QAM	19.24	16.22	6.78
48	BW_20M	1 RB high	3690.00	256QAM	19.35	16.33	6.67
48	BW_20M	100% RB	3690.00	256QAM	15.60	12.58	10.42

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 =-0.27)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	22.86	23.05	22.11	18.23	22.59	22.78	21.84	17.96
		1745.0	22.77	22.96	21.95	18.18	22.50	22.69	21.68	17.91
		1710.7	22.88	23.04	22.07	18.29	22.61	22.77	21.80	18.02
	1 RB low	1779.3	22.93	23.14	22.09	18.37	22.66	22.87	21.82	18.10
		1745.0	22.86	23.13	21.98	18.20	22.59	22.86	21.71	17.93
		1710.7	23.06	23.39	22.18	18.36	22.79	23.12	21.91	18.09
	50% RB mid	1779.3	23.01	22.01	20.97	18.40	22.74	21.74	20.70	18.13
		1745.0	23.20	21.80	20.78	18.52	22.93	21.53	20.51	18.25
		1710.7	23.02	21.99	20.95	18.19	22.75	21.72	20.68	17.92
	100% RB	1779.3	23.01	21.97	21.04	18.42	22.74	21.70	20.77	18.15
		1745.0	22.78	21.82	20.88	18.22	22.51	21.55	20.61	17.95
		1710.7	23.01	22.03	20.97	18.29	22.74	21.76	20.70	18.02
3MHz	1 RB high	1778.5	22.86	22.96	22.12	18.22	22.59	22.69	21.85	17.95
		1745.0	22.84	22.89	21.95	18.27	22.57	22.62	21.68	18.00
		1711.5	22.85	23.11	22.00	18.03	22.58	22.84	21.73	17.76
	1 RB low	1778.5	22.90	23.13	22.11	18.30	22.63	22.86	21.84	18.03
		1745.0	22.90	23.13	21.99	18.21	22.63	22.86	21.72	17.94
		1711.5	23.07	23.39	22.18	18.37	22.80	23.12	21.91	18.10
	50% RB mid	1778.5	22.96	22.00	20.92	18.15	22.69	21.73	20.65	17.88
		1745.0	23.18	21.78	20.78	18.47	22.91	21.51	20.51	18.20
		1711.5	23.02	21.95	20.96	18.19	22.75	21.68	20.69	17.92
	100% RB	1778.5	23.05	22.04	21.04	18.39	22.78	21.77	20.77	18.12
		1745.0	22.83	21.78	20.85	18.16	22.56	21.51	20.58	17.89
		1711.5	22.97	21.98	21.04	18.35	22.70	21.71	20.77	18.08
5MHz	1 RB high	1777.5	22.90	23.00	22.18	18.27	22.63	22.73	21.91	18.00
		1745.0	22.75	22.97	22.00	18.13	22.48	22.70	21.73	17.86
		1712.5	22.85	23.05	21.99	18.17	22.58	22.78	21.72	17.90
	1 RB low	1777.5	22.92	23.20	22.13	18.30	22.65	22.93	21.86	18.03
		1745.0	22.90	23.15	22.05	18.10	22.63	22.88	21.78	17.83
		1712.5	23.09	23.33	22.17	18.40	22.82	23.06	21.90	18.13
	50% RB mid	1777.5	22.96	22.01	20.95	18.38	22.69	21.74	20.68	18.11
		1745.0	23.24	21.80	20.85	18.46	22.97	21.53	20.58	18.19
		1712.5	23.02	22.00	21.01	18.35	22.75	21.73	20.74	18.08
	100% RB	1777.5	22.99	22.03	20.99	18.39	22.72	21.76	20.72	18.12
		1745.0	22.86	21.77	20.85	18.13	22.59	21.50	20.58	17.86
		1712.5	23.02	22.02	21.03	18.31	22.75	21.75	20.76	18.04
10MHz	1 RB high	1775.0	22.87	23.00	22.17	18.32	22.60	22.73	21.90	18.05
		1745.0	22.79	22.93	21.95	18.02	22.52	22.66	21.68	17.75
		1715.0	22.91	23.09	22.06	18.34	22.64	22.82	21.79	18.07

	1 RB low	1775.0	22.89	23.17	22.09	18.21	22.62	22.90	21.82	17.94
		1745.0	22.85	23.20	21.98	18.30	22.58	22.93	21.71	18.03
		1715.0	23.09	23.40	22.17	18.31	22.82	23.13	21.90	18.04
	50% RB mid	1775.0	23.03	22.00	21.01	18.43	22.76	21.73	20.74	18.16
		1745.0	23.24	21.79	20.77	18.66	22.97	21.52	20.50	18.39
		1715.0	22.98	21.95	20.98	18.35	22.71	21.68	20.71	18.08
	100% RB	1775.0	22.97	21.99	21.01	18.20	22.70	21.72	20.74	17.93
		1745.0	22.77	21.81	20.82	17.94	22.50	21.54	20.55	17.67
		1715.0	22.94	21.98	21.03	18.35	22.67	21.71	20.76	18.08
15MHz	1 RB high	1772.5	22.85	22.99	22.17	18.26	22.58	22.72	21.90	17.99
		1745.0	22.79	22.93	21.91	18.18	22.52	22.66	21.64	17.91
		1717.5	22.93	23.05	22.07	18.27	22.66	22.78	21.80	18.00
	1 RB low	1772.5	22.89	23.19	22.06	18.20	22.62	22.92	21.79	17.93
		1745.0	22.83	23.19	22.06	18.12	22.56	22.92	21.79	17.85
		1717.5	23.11	23.37	22.20	18.49	22.84	23.10	21.93	18.22
	50% RB mid	1772.5	22.99	21.97	21.00	18.36	22.72	21.70	20.73	18.09
		1745.0	23.26	21.83	20.78	18.61	22.99	21.56	20.51	18.34
		1717.5	22.98	22.01	20.93	18.16	22.71	21.74	20.66	17.89
	100% RB	1772.5	23.04	21.98	20.99	18.47	22.77	21.71	20.72	18.20
		1745.0	22.86	21.81	20.86	18.19	22.59	21.54	20.59	17.92
		1717.5	23.03	22.04	21.06	18.43	22.76	21.77	20.79	18.16
20MHz	1 RB high	1770.0	22.94	23.06	22.20	18.22	22.67	22.79	21.93	17.95
		1745.0	22.85	22.98	22.01	18.16	22.58	22.71	21.74	17.89
		1720.0	22.94	23.14	22.08	18.11	22.67	22.87	21.81	17.84
	1 RB low	1770.0	22.94	23.21	22.15	18.18	22.67	22.94	21.88	17.91
		1745.0	22.91	23.21	22.07	18.36	22.64	22.94	21.80	18.09
		1720.0	23.15	23.41	22.27	18.43	22.88	23.14	22.00	18.16
	50% RB mid	1770.0	23.06	22.05	21.02	18.49	22.79	21.78	20.75	18.22
		1745.0	23.27	21.88	20.87	18.50	23.00	21.61	20.60	18.23
		1720.0	23.06	22.03	21.03	18.40	22.79	21.76	20.76	18.13
	100% RB	1770.0	23.06	22.07	21.06	18.51	22.79	21.80	20.79	18.24
		1745.0	22.87	21.85	20.90	18.09	22.60	21.58	20.63	17.82
		1720.0	23.04	22.06	21.07	18.27	22.77	21.79	20.80	18.00

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 =-2.58)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	23.29	22.58	21.51	18.66	18.56	17.85	16.78	16.78
		680.5	23.08	22.38	21.14	18.52	18.35	17.65	16.41	16.41
		665.5	23.03	22.31	21.24	18.43	18.30	17.58	16.51	16.51
	1 RB low	695.5	23.22	22.45	21.35	18.42	18.49	17.72	16.62	16.62
		680.5	23.44	22.62	21.55	18.71	18.71	17.89	16.82	16.82
		665.5	23.24	22.42	21.30	18.56	18.51	17.69	16.57	16.57
	50% RB mid	695.5	22.11	21.09	20.05	17.43	17.38	16.36	15.32	15.32
		680.5	22.47	21.06	20.09	17.84	17.74	16.33	15.36	15.36
		665.5	22.43	21.41	20.36	17.82	17.70	16.68	15.63	15.63
	100% RB	695.5	22.10	21.14	20.11	17.48	17.37	16.41	15.38	15.38
		680.5	22.14	21.11	20.15	17.53	17.41	16.38	15.42	15.42
		665.5	22.26	21.32	20.26	17.55	17.53	16.59	15.53	15.53
10MHz	1 RB high	693.0	23.31	22.52	21.45	18.54	18.58	17.79	16.72	16.72
		680.5	23.13	22.38	21.16	18.43	18.40	17.65	16.43	16.43
		668.0	23.04	22.24	21.18	18.22	18.31	17.51	16.45	16.45
	1 RB low	693.0	23.16	22.50	21.36	18.40	18.43	17.77	16.63	16.63
		680.5	23.43	22.65	21.50	18.74	18.70	17.92	16.77	16.77
		668.0	23.16	22.51	21.28	18.38	18.43	17.78	16.55	16.55
	50% RB mid	693.0	22.11	21.13	20.09	17.44	17.38	16.40	15.36	15.36
		680.5	22.45	21.08	20.08	17.77	17.72	16.35	15.35	15.35
		668.0	22.41	21.41	20.35	17.66	17.68	16.68	15.62	15.62
	100% RB	693.0	22.17	21.15	20.10	17.56	17.44	16.42	15.37	15.37
		680.5	22.19	21.14	20.19	17.60	17.46	16.41	15.46	15.46
		668.0	22.23	21.25	20.32	17.52	17.50	16.52	15.59	15.59
15MHz	1 RB high	690.5	23.36	22.55	21.44	18.53	18.63	17.82	16.71	16.71
		680.5	23.06	22.37	21.18	18.24	18.33	17.64	16.45	16.45
		670.5	23.11	22.30	21.18	18.46	18.38	17.57	16.45	16.45
	1 RB low	690.5	23.20	22.44	21.39	18.51	18.47	17.71	16.66	16.66
		680.5	23.42	22.57	21.49	18.59	18.69	17.84	16.76	16.76
		670.5	23.19	22.51	21.29	18.61	18.46	17.78	16.56	16.56
	50% RB mid	690.5	22.16	21.07	20.06	17.38	17.43	16.34	15.33	15.33
		680.5	22.44	21.05	20.12	17.70	17.71	16.32	15.39	15.39
		670.5	22.44	21.38	20.35	17.75	17.71	16.65	15.62	15.62
	100% RB	690.5	22.15	21.16	20.10	17.44	17.42	16.43	15.37	15.37
		680.5	22.12	21.10	20.10	17.35	17.39	16.37	15.37	15.37
		670.5	22.26	21.32	20.24	17.60	17.53	16.59	15.51	15.51
20MHz	1 RB high	688.0	23.38	22.59	21.53	18.68	18.65	17.86	16.80	16.80
		680.5	23.16	22.40	21.20	18.49	18.43	17.67	16.47	16.47
		673.0	23.13	22.33	21.25	18.48	18.40	17.60	16.52	16.52

	1 RB low	688.0	23.26	22.52	21.40	18.45	18.53	17.79	16.67	16.67
		680.5	23.52	22.66	21.58	18.75	18.79	17.93	16.85	16.85
		673.0	23.25	22.52	21.32	18.58	18.52	17.79	16.59	16.59
	50% RB mid	688.0	22.18	21.15	20.15	17.48	17.45	16.42	15.42	15.42
		680.5	22.48	21.13	20.16	17.83	17.75	16.40	15.43	15.43
		673.0	22.45	21.47	20.38	17.81	17.72	16.74	15.65	15.65
	100% RB	688.0	22.20	21.17	20.17	17.50	17.47	16.44	15.44	15.44
		680.5	22.21	21.20	20.20	17.44	17.48	16.47	15.47	15.47
		673.0	22.33	21.33	20.34	17.70	17.60	16.60	15.61	15.61

LTE CA Band 41C

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

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	EIRP(dBm)(Gt-Lc =-1.21)
				Size	Offset	Size	Offset		
5MHz/ 20MHz	2583.8	2595.5	QPSK	1	24	1	0	26.61	25.40
				25	0	100	0	24.61	23.40
			16QAM	1	24	1	0	25.18	23.97
				25	0	100	0	23.66	22.45
			64QAM	1	24	1	0	23.58	22.37
				25	0	100	0	23.66	22.45
			256QAM	1	24	1	0	26.77	25.56
				25	0	100	0	26.75	25.54
10MHz/ 15MHz	2585.9	2597.9	QPSK	1	49	1	0	26.87	25.66
				50	0	75	0	24.78	23.57
			16QAM	1	49	1	0	25.30	24.09
				50	0	75	0	23.76	22.55
			64QAM	1	49	1	0	23.59	22.38
				50	0	75	0	23.77	22.56
			256QAM	1	49	1	0	26.72	25.51
				50	0	75	0	26.84	25.63
10MHz/ 20MHz	2583.6	2598	QPSK	1	49	1	0	26.91	25.70
				50	0	100	0	24.82	23.61
			16QAM	1	49	1	0	25.12	23.91
				50	0	100	0	23.78	22.57
			64QAM	1	49	1	0	23.92	22.71
				50	0	100	0	23.79	22.58
			256QAM	1	49	1	0	26.80	25.59
				50	0	100	0	26.83	25.62
15MHz/ 10MHz	2588.1	2600.1	QPSK	1	74	1	0	26.90	25.69
				75	0	50	0	24.83	23.62
			16QAM	1	74	1	0	25.07	23.86
				75	0	50	0	23.78	22.57
			64QAM	1	74	1	0	23.88	22.67
				75	0	50	0	23.78	22.57
			256QAM	1	74	1	0	26.71	25.50
				75	0	50	0	24.89	23.68
15MHz/ 15MHz	2585.5	2600.5	QPSK	1	74	1	0	26.90	25.69
				75	0	75	0	24.80	23.59
			16QAM	1	74	1	0	25.38	24.17
				75	0	75	0	23.78	22.57
			64QAM	1	74	1	0	23.66	22.45
				1	74	1	0	23.66	22.45

				75	0	75	0	23.82	22.61
			256QAM	1	74	1	0	26.80	25.59
				75	0	75	0	26.86	25.65
15MHz/ 20MHz	2583.3	2600.4	QPSK	1	74	1	0	26.96	25.75
				75	0	100	0	24.84	23.63
			16QAM	1	74	1	0	25.41	24.20
				75	0	100	0	23.82	22.61
			64QAM	1	74	1	0	23.70	22.49
				75	0	100	0	23.87	22.66
			256QAM	1	74	1	0	26.85	25.64
				75	0	100	0	26.85	25.64
20MHz/ 5MHz	2590.5	2602.2	QPSK	1	99	1	0	26.84	25.63
				100	0	25	0	24.87	23.66
			16QAM	1	99	1	0	25.24	24.03
				100	0	25	0	23.87	22.66
			64QAM	1	99	1	0	23.92	22.71
				100	0	25	0	23.86	22.65
			256QAM	1	99	1	0	26.92	25.71
				100	0	25	0	23.86	22.65
20MHz/ 10MHz	2588.1	2602.5	QPSK	1	99	1	0	26.93	25.72
				100	0	50	0	24.94	23.73
			16QAM	1	99	1	0	25.54	24.33
				100	0	50	0	23.93	22.72
			64QAM	1	99	1	0	24.01	22.80
				100	0	50	0	23.97	22.76
			256QAM	1	99	1	0	26.89	25.68
				100	0	50	0	24.96	23.75
20MHz/ 15MHz	2585.6	2602.7	QPSK	1	99	1	0	26.99	25.78
				100	0	75	0	24.88	23.67
			16QAM	1	99	1	0	25.39	24.18
				100	0	75	0	23.86	22.65
			64QAM	1	99	1	0	24.08	22.87
				100	0	75	0	23.90	22.69
			256QAM	1	99	1	0	26.89	25.68
				100	0	75	0	24.98	23.77
20MHz/ 20MHz	2583.1	2602.9	QPSK	1	99	1	0	27.06	25.85
				100	0	100	0	24.92	23.71
			16QAM	1	99	1	0	25.45	24.24
				100	0	100	0	23.87	22.66
			64QAM	1	99	1	0	24.13	22.92
				100	0	100	0	23.92	22.71
			256QAM	1	99	1	0	26.93	25.72
				100	0	100	0	24.99	23.78

LTE CA Band 66B

Limits: ≤30dBm(1W)

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	EIRP(dBm)(Gt-Lc =-0.27)
				Size	Offset	Size	Offset		
5MHz/ 5MHz	1752.6	1757.4	QPSK	1	24	1	0	23.82	23.55
				25	0	25	0	21.89	21.62
			16QAM	1	24	1	0	22.83	22.56
				25	0	25	0	20.91	20.64
			64QAM	1	24	1	0	20.81	20.54
				25	0	25	0	20.92	20.65
			256QAM	1	24	1	0	19.01	18.74
				25	0	25	0	19.00	18.73
5MHz/ 10MHz	1750.3	1757.5	QPSK	1	24	1	0	23.93	23.66
				25	0	50	0	21.97	21.70
			16QAM	1	24	1	0	22.97	22.70
				25	0	50	0	21.00	20.73
			64QAM	1	24	1	0	20.90	20.63
				25	0	50	0	21.05	20.78
			256QAM	1	24	1	0	19.12	18.85
				25	0	50	0	19.05	18.78
5MHz/ 15MHz	1748.1	1757.4	QPSK	1	24	1	0	23.96	23.69
				25	0	75	0	21.98	21.71
			16QAM	1	24	1	0	23.00	22.73
				25	0	75	0	21.00	20.73
			64QAM	1	24	1	0	21.00	20.73
				25	0	75	0	21.01	20.74
			256QAM	1	24	1	0	19.18	18.91
				25	0	75	0	19.06	18.79
10MHz/ 5MHz	1752.5	1759.7	QPSK	1	49	1	0	23.98	23.71
				50	0	25	0	21.99	21.72
			16QAM	1	49	1	0	23.06	22.79
				50	0	25	0	21.00	20.73
			64QAM	1	49	1	0	20.69	20.42
				50	0	25	0	20.99	20.72
			256QAM	1	49	1	0	19.03	18.76
				50	0	25	0	19.12	18.85
10MHz/ 10MHz	1750.1	1760	QPSK	1	49	1	0	23.98	23.71
				50	0	50	0	21.97	21.70
			16QAM	1	49	1	0	23.07	22.80
				50	0	50	0	20.98	20.71
			64QAM	1	49	1	0	20.73	20.46

				50	0	50	0	20.96	20.69
			256QAM	1	49	1	0	19.08	18.81
				50	0	50	0	19.07	18.80
15MHz/ 5MHz	1752.6	1761.9	QPSK	1	74	1	0	23.96	23.69
				75	0	25	0	21.96	21.69
			16QAM	1	74	1	0	22.91	22.64
				75	0	25	0	20.90	20.63
			64QAM	1	74	1	0	20.71	20.44
				75	0	25	0	20.95	20.68
			256QAM	1	74	1	0	19.04	18.77
				75	0	25	0	19.08	18.81

LTE CA Band 66C
Limits: ≤ 30dBm(1W)

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	EIRP(dBm)(Gt-Lc =-0.27)
				Size	Offset	Size	Offset		
5MHz/ 20MHz	1745.8	1757.5	QPSK	1	24	1	0	23.98	23.71
				25	0	100	0	22.00	21.73
			16QAM	1	24	1	0	23.05	22.78
				25	0	100	0	21.02	20.75
			64QAM	1	24	1	0	21.00	20.73
				25	0	100	0	21.01	20.74
			256QAM	1	24	1	0	19.23	18.96
				25	0	100	0	19.11	18.84
10MHz/ 15MHz	1747.9	1757.9	QPSK	1	49	1	0	24.05	23.78
				50	0	75	0	22.02	21.75
			16QAM	1	49	1	0	23.03	22.76
				50	0	75	0	21.02	20.75
			64QAM	1	49	1	0	20.83	20.56
				50	0	75	0	21.00	20.73
			256QAM	1	49	1	0	19.11	18.84
				50	0	75	0	19.09	18.82
10MHz/ 20MHz	1745.6	1760	QPSK	1	49	1	0	24.02	23.75
				50	0	100	0	22.06	21.79
			16QAM	1	49	1	0	23.20	22.93
				50	0	100	0	21.05	20.78
			64QAM	1	49	1	0	20.84	20.57
				50	0	100	0	21.06	20.79
			256QAM	1	49	1	0	19.13	18.86
				50	0	100	0	19.10	18.83
15MHz/ 10MHz	1750.1	1762.1	QPSK	1	74	1	0	24.03	23.76
				75	0	50	0	22.00	21.73
			16QAM	1	74	1	0	22.98	22.71
				75	0	50	0	20.93	20.66
			64QAM	1	74	1	0	20.72	20.45
				75	0	50	0	20.97	20.70
			256QAM	1	74	1	0	19.07	18.80
				75	0	50	0	19.06	18.79
15MHz/ 15MHz	1747.5	1762.5	QPSK	1	74	1	0	23.94	23.67
				75	0	75	0	22.04	21.77
			16QAM	1	74	1	0	23.13	22.86
				75	0	75	0	20.97	20.70

			64QAM	1	74	1	0	20.78	20.51
				75	0	75	0	21.00	20.73
			256QAM	1	74	1	0	19.03	18.76
				75	0	75	0	19.05	18.78
			QPSK	1	74	1	0	24.05	23.78
				75	0	100	0	22.02	21.75
15MHz/ 20MHz	1745.3	1762.4	16QAM	1	74	1	0	22.82	22.55
				75	0	100	0	21.00	20.73
			64QAM	1	74	1	0	21.04	20.77
				75	0	100	0	21.03	20.76
			256QAM	1	74	1	0	19.06	18.79
				75	0	100	0	19.04	18.77
20MHz/ 5MHz	1752.5	1764.2	QPSK	1	99	1	0	24.00	23.73
				100	0	25	0	21.95	21.68
			16QAM	1	99	1	0	23.01	22.74
				100	0	25	0	20.97	20.70
			64QAM	1	99	1	0	21.10	20.83
				100	0	25	0	20.96	20.69
20MHz/ 10MHz	1750.1	1764.5	256QAM	1	99	1	0	18.95	18.68
				100	0	25	0	18.98	18.71
			QPSK	1	99	1	0	24.03	23.76
				100	0	50	0	22.00	21.73
			16QAM	1	99	1	0	22.98	22.71
				100	0	50	0	21.00	20.73
20MHz/ 15MHz	1747.6	1764.7	64QAM	1	99	1	0	21.10	20.83
				100	0	50	0	21.03	20.76
			256QAM	1	99	1	0	18.92	18.65
				100	0	50	0	19.02	18.75
			QPSK	1	99	1	0	23.99	23.72
				100	0	75	0	22.01	21.74
20MHz/ 20MHz	1745.1	1764.9	16QAM	1	99	1	0	23.00	22.73
				100	0	75	0	20.96	20.69
			64QAM	1	99	1	0	21.16	20.89
				100	0	75	0	21.02	20.75
			256QAM	1	99	1	0	18.92	18.65
				100	0	75	0	19.03	18.76
20MHz/ 20MHz	1745.1	1764.9	QPSK	1	99	1	0	24.05	23.78
				100	0	100	0	21.99	21.72
			16QAM	1	99	1	0	23.04	22.77
				100	0	100	0	21.00	20.73
			64QAM	1	99	1	0	21.16	20.89
				100	0	100	0	21.04	20.77
20MHz/ 20MHz	1745.1	1764.9	256QAM	1	99	1	0	19.05	18.78
				100	0	100	0	21.04	20.77
			64QAM	1	99	1	0	21.16	20.89
				100	0	100	0	21.04	20.77
			16QAM	1	99	1	0	23.04	22.77
				100	0	100	0	21.00	20.73



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				100	0	100	0	19.00	18.73
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Note: Expanded measurement uncertainty is $U = 0.578 \text{ dB}$, $k = 2$.

A.2 Emission Limit

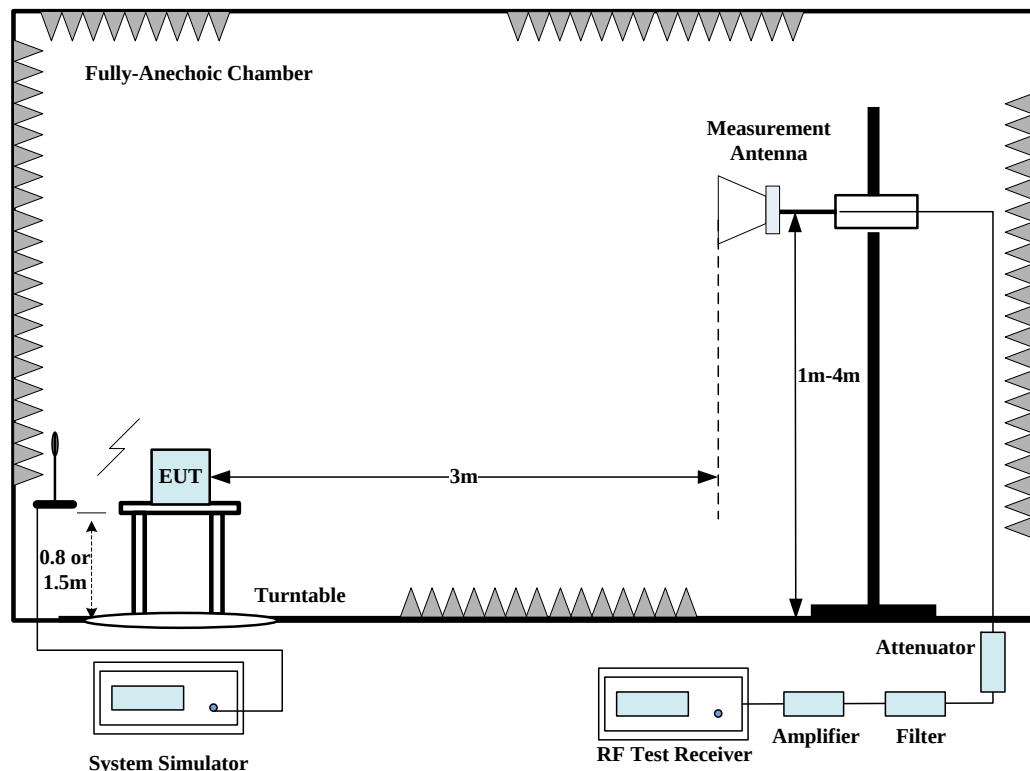
A.2.1 Measurement Method

The measurement procedures in TIA-603E-2016 are used.

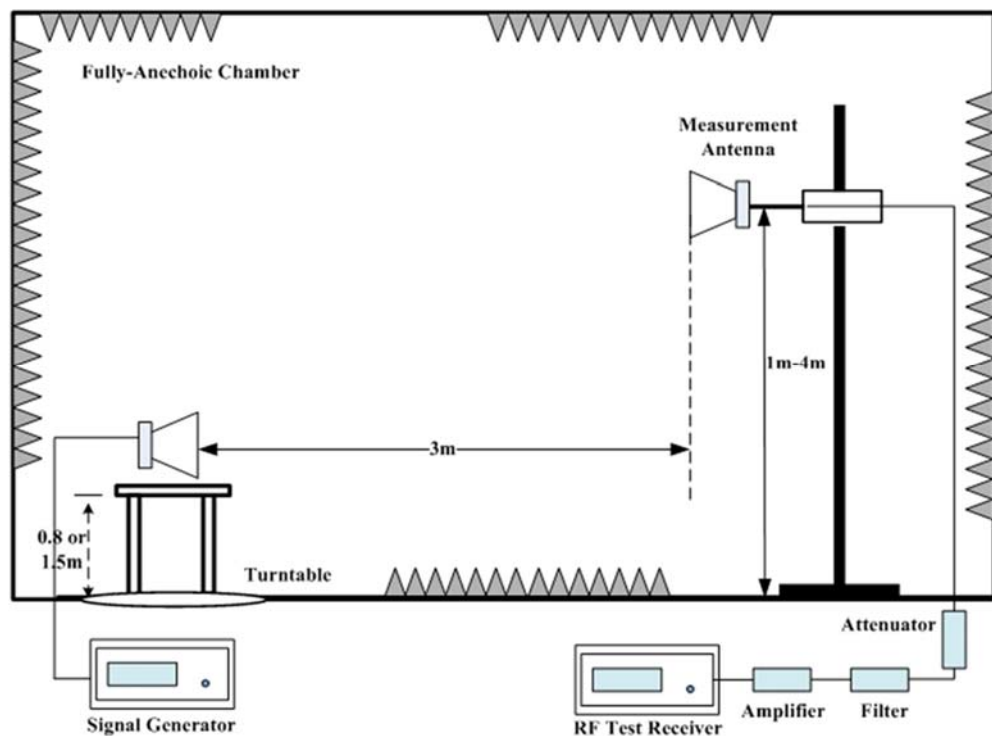
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and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

The procedure of radiated spurious emissions is as follows:

For measurements performed at frequencies less than or equal to 1 GHz, the EUT was placed on a 80cm-high non-conductive support; For measurements performed at frequencies above 1GHz,EUT was placed on a 1.5-meter-high non-conductive support. A measurement antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. In the initial test, the height of the measurement antenna was varied from 1 m to 4 m for the relative positioning that produces the maximum radiated signal level. 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.



1. 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).
2. 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. The height of measurement antenna varied between 1 m to 4 m to maximize the received signal amplitude for each emission that was detected and measured in the initial test. A power (P_{Mea}) is applied to the input of the substitution antenna and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test was performed with the measurement antenna in both vertical and horizontal polarization.

3. The Path loss (P_{pl}) between the Signal Source and the Substitution Antenna and the Substitution Antenna Gain (G_a) were recorded after test. A amplifier was connected in for the test. The Path loss (P_{pl}) is the summation of the cable loss and the gain of the amplifier.
4. The measurement results are obtained as described below:

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

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

A.2.2 Measurement Limit

FDD Band 2/25: Part 24.238 specifies 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 5/26(824MHz~849MHz): Part 22.917 specifies 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 than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FDD Band 12/13/71: 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 4/66: Part 27.53(h) specifies 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.

Note 1: All CA UL combination bands have been tested, only the worst cases are reported.

Note 2: Both of Vertical and Horizontal polarizations are evaluated, but only the worst case is recorded in this report.

Note3: LTE Band 25 overlaps the entire frequency range of Band 2, LTE Band 26(824MHz~849MHz) overlaps the entire frequency range of Band 5, Therefore, test data of emission limit provided in this report covers all the bands described above.

A.2.4 Measurement Results Table

Frequency	Channel	Frequency Range	Result
LTE Bands	Low	9kHz-26GHz	Pass
	Middle	9kHz-26GHz	Pass
	High	9kHz-26GHz	Pass

A.2.5 Sweep Table

Subrange	RBW	VBW
9~150 kHz	0.2kHz	0.6kHz
150kHz~30MHz	9kHz	27kHz
30MHz~1 GHz	100KHz	300KHz
1~20 GHz	1 MHz	3 MHz

A.2.6 Measurement Result

LTE Band 7, 5 MHz, QPSK, Channel 20775

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.50	-57.93	6.59	9.91	-54.61	-25.00	29.61	V
7511.00	-52.87	8.35	12.21	-49.01	-25.00	24.01	V
10019.50	-51.35	9.24	12.91	-47.68	-25.00	22.68	H
12512.50	-48.62	10.21	13.21	-45.62	-25.00	20.62	V
15022.00	-49.73	11.24	13.99	-46.98	-25.00	21.98	H
17529.50	-44.00	12.84	14.94	-41.90	-25.00	16.90	V

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-55.51	6.69	10.00	-52.20	-25.00	27.20	V
7605.50	-53.56	8.00	12.28	-49.28	-25.00	24.28	V
10136.50	-52.20	9.40	12.95	-48.65	-25.00	23.65	H
12678.00	-49.13	10.34	13.31	-46.16	-25.00	21.16	H
15203.00	-49.92	11.40	13.88	-47.44	-25.00	22.44	H
17726.00	-44.91	12.33	15.22	-42.02	-25.00	17.02	H

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.50	-51.55	6.86	10.09	-48.32	-25.00	23.32	H
7703.00	-47.93	8.42	12.36	-43.99	-25.00	18.99	H
10270.50	-48.54	9.54	13.01	-45.07	-25.00	20.07	V
12851.50	-49.36	10.63	13.41	-46.58	-25.00	21.58	V
15419.00	-48.35	11.42	13.75	-46.02	-25.00	21.02	H
17977.50	-43.99	12.90	15.57	-41.32	-25.00	16.32	H

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1339.00	-46.56	3.16	4.66	2.15	-47.21	-13.00	34.21	H
2001.50	-41.25	4.06	4.60	2.15	-42.86	-13.00	29.86	V
2686.00	-36.68	4.77	6.43	2.15	-37.17	-13.00	24.17	H
8026.00	-51.10	8.32	12.62	2.15	-48.95	-13.00	35.95	H
8704.50	-51.98	8.37	13.04	2.15	-49.46	-13.00	36.46	V
9384.50	-49.91	9.05	13.33	2.15	-47.78	-13.00	34.78	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)	Polarization
1417.50	-46.57	3.26	5.07	2.15	-46.91	-13.00	33.91	H
2119.00	-40.26	4.21	4.96	2.15	-41.66	-13.00	28.66	V
2821.00	-35.70	4.94	6.68	2.15	-36.11	-13.00	23.11	H
7783.50	-49.74	8.31	12.43	2.15	-47.77	-13.00	34.77	H
8491.50	-46.88	8.67	12.99	2.15	-44.71	-13.00	31.71	H
9199.00	-48.84	8.93	13.22	2.15	-46.70	-13.00	33.70	V

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.50	-46.63	3.28	5.14	2.15	-46.92	-13.00	33.92	H
2146.50	-37.61	4.24	5.04	2.15	-38.96	-13.00	25.96	H
2853.50	-35.85	4.96	6.74	2.15	-36.22	-13.00	23.22	V
3576.50	-44.26	6.10	8.31	2.15	-44.20	-13.00	31.20	V
5723.00	-44.64	7.30	10.56	2.15	-43.53	-13.00	30.53	H
8585.00	-42.81	8.52	13.02	2.15	-40.46	-13.00	27.46	H

LTE Band 13, 5MHz, QPSK, Channel 23205

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.36	-56.55	3.48	5.38	0.00	-56.80	-40.00	16.80	H
2346.20	-38.67	4.45	5.64	2.15	-39.63	-13.00	26.63	V
3127.50	-49.08	5.40	7.31	2.15	-49.32	-13.00	36.32	V
3910.00	-55.37	6.12	8.77	2.15	-54.87	-13.00	41.87	V
4692.50	-52.19	6.50	9.59	2.15	-51.25	-13.00	38.25	H
7037.50	-53.77	8.24	11.65	2.15	-52.51	-13.00	39.51	H

LTE Band 13, 5MHz, QPSK, Channel 23230

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1558.53	-46.14	3.47	5.39	2.15	-46.37	-13.00	33.37	V
2338.76	-39.33	4.44	5.62	2.15	-40.30	-13.00	27.30	H
3117.50	-47.51	5.38	7.28	2.15	-47.76	-13.00	34.76	V
3897.50	-56.13	6.11	8.76	2.15	-55.63	-13.00	42.63	H
4677.50	-52.83	6.49	9.58	2.15	-51.89	-13.00	38.89	H
7015.00	-53.25	8.28	11.62	2.15	-52.06	-13.00	39.06	H

LTE Band 13, 5MHz, QPSK, Channel 23255

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1569.20	-57.36	3.48	5.38	0.00	-57.61	-40.00	17.61	H
2354.15	-38.40	4.46	5.66	2.15	-39.35	-13.00	26.35	V
3137.50	-51.25	5.39	7.33	2.15	-51.46	-13.00	38.46	H
3922.50	-54.47	6.12	8.79	2.15	-53.95	-13.00	40.95	V
4707.50	-48.30	6.51	9.61	2.15	-47.35	-13.00	34.35	V
5492.50	-55.89	7.03	10.59	2.15	-54.48	-13.00	41.48	V

LTE Band 25, 1.4MHz, QPSK, Channel 26047

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5552.50	-44.56	7.18	10.59	-41.15	-13.00	28.15	H
7403.00	-41.94	8.13	12.08	-37.99	-13.00	24.99	V
9254.00	-43.32	9.05	13.25	-39.12	-13.00	26.12	V
13592.00	-47.61	10.83	14.26	-44.18	-13.00	31.18	H
15466.00	-47.76	11.49	13.72	-45.53	-13.00	32.53	V
16874.00	-43.23	12.03	13.75	-41.51	-13.00	28.51	H

LTE Band 25, 1.4MHz, QPSK, Channel 26365

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5647.50	-44.48	7.27	10.57	-41.18	-13.00	28.18	H
7530.50	-40.99	8.27	12.22	-37.04	-13.00	24.04	V
9412.50	-43.57	9.10	13.35	-39.32	-13.00	26.32	H
13178.50	-44.87	10.59	13.75	-41.71	-13.00	28.71	H
15097.50	-48.44	11.35	13.94	-45.85	-13.00	32.85	H
16898.00	-43.05	12.00	13.76	-41.29	-13.00	28.29	H

LTE Band 25, 1.4MHz, QPSK, Channel 26683

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3828.50	-49.86	6.06	8.66	-47.26	-13.00	34.26	H
5743.00	-36.08	7.27	10.55	-32.80	-13.00	19.80	H
7657.50	-35.07	8.23	12.33	-30.97	-13.00	17.97	H
9572.00	-44.79	9.28	13.33	-40.74	-13.00	27.74	V
13401.00	-43.04	10.57	14.06	-39.55	-13.00	26.55	H
15315.00	-42.93	11.30	13.81	-40.42	-13.00	27.42	H

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

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.50	-37.57	3.56	5.23	2.15	-38.05	-13.00	25.05	H
2474.50	-36.66	4.60	6.02	2.15	-37.39	-13.00	24.39	H
3299.00	-46.15	5.29	7.72	2.15	-45.87	-13.00	32.87	H
8248.50	-47.00	8.59	12.80	2.15	-44.94	-13.00	31.94	V
9073.00	-42.23	9.01	13.14	2.15	-40.25	-13.00	27.25	H
9890.00	-49.58	9.08	13.01	2.15	-47.80	-13.00	34.80	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
1673.00	-38.04	3.58	5.19	2.15	-38.58	-13.00	25.58	V
2510.00	-37.35	4.63	6.12	2.15	-38.01	-13.00	25.01	V
3346.00	-45.65	5.31	7.83	2.15	-45.28	-13.00	32.28	H
7529.50	-49.57	8.27	12.22	2.15	-47.77	-13.00	34.77	V
8366.00	-46.01	8.65	12.89	2.15	-43.92	-13.00	30.92	V
9202.50	-43.03	8.93	13.22	2.15	-40.89	-13.00	27.89	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
1696.50	-38.59	3.60	5.15	2.15	-39.19	-13.00	26.19	V
2545.00	-34.94	4.66	6.18	2.15	-35.57	-13.00	22.57	H
3393.00	-42.73	5.36	7.94	2.15	-42.30	-13.00	29.30	V
7635.00	-51.03	8.13	12.31	2.15	-49.00	-13.00	36.00	H
8484.50	-48.29	8.67	12.99	2.15	-46.12	-13.00	33.12	V
9332.50	-47.02	9.11	13.30	2.15	-44.98	-13.00	31.98	V

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)	Polarization
1629.00	-38.08	3.55	5.27	2.15	-38.51	-13.00	25.51	V
2444.50	-33.49	4.57	5.93	2.15	-34.28	-13.00	21.28	H
3259.00	-41.62	5.28	7.62	2.15	-41.43	-13.00	28.43	V
8147.50	-47.73	8.41	12.72	2.15	-45.57	-13.00	32.57	V
8963.00	-40.18	9.07	13.09	2.15	-38.31	-13.00	25.31	V
9769.50	-49.46	8.97	13.13	2.15	-47.45	-13.00	34.45	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)	Polarization
1638.00	-39.93	3.56	5.25	2.15	-40.39	-13.00	27.39	V
2465.50	-35.09	4.59	6.00	2.15	-35.83	-13.00	22.83	V
3276.00	-42.85	5.28	7.66	2.15	-42.62	-13.00	29.62	V
8191.00	-45.77	8.50	12.75	2.15	-43.67	-13.00	30.67	H
9010.50	-40.24	9.17	13.11	2.15	-38.45	-13.00	25.45	V
9825.00	-49.58	9.05	13.08	2.15	-47.70	-13.00	34.70	V

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)	Polarization
1646.50	-37.96	3.56	5.24	2.15	-38.43	-13.00	25.43	H
2470.50	-35.98	4.59	6.01	2.15	-36.71	-13.00	23.71	V
3293.50	-47.44	5.29	7.70	2.15	-47.18	-13.00	34.18	H
8234.00	-47.26	8.57	12.79	2.15	-45.19	-13.00	32.19	H
9057.50	-44.97	9.05	13.13	2.15	-43.04	-13.00	30.04	V
9751.00	-48.82	8.93	13.15	2.15	-46.75	-13.00	33.75	V

LTE Band 41, 5MHz, QPSK, Channel 39675

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4997.00	-49.63	6.61	9.90	-46.34	-25.00	21.34	H
7496.00	-42.07	8.38	12.20	-38.25	-25.00	13.25	V
9995.00	-41.02	9.18	12.91	-37.29	-25.00	12.29	V
12494.00	-38.77	10.19	13.20	-35.76	-25.00	10.76	V
14992.00	-48.16	11.21	14.01	-45.36	-25.00	20.36	V
17486.00	-44.85	12.69	14.87	-42.67	-25.00	17.67	V

LTE Band 41, 5MHz, QPSK, Channel 40620

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186.00	-50.93	6.94	10.16	-47.71	-25.00	22.71	H
7780.00	-39.09	8.32	12.42	-34.99	-25.00	9.99	V
10373.00	-37.37	9.76	13.05	-34.08	-25.00	9.08	H
12966.00	-39.22	10.48	13.48	-36.22	-25.00	11.22	V
15559.00	-47.01	11.50	13.70	-44.81	-25.00	19.81	V
16856.00	-43.66	12.05	13.74	-41.97	-25.00	16.97	V

LTE Band 41, 5MHz, QPSK, Channel 41565

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5375.00	-43.77	6.88	10.43	-40.22	-25.00	15.22	H
8063.00	-35.87	8.32	12.65	-31.54	-25.00	6.54	V
10751.00	-51.93	9.43	13.15	-48.21	-25.00	23.21	H
13413.00	-50.08	10.58	14.08	-46.58	-25.00	21.58	V
16106.00	-47.22	11.85	13.68	-45.39	-25.00	20.39	H
17449.50	-44.95	12.61	14.79	-42.77	-25.00	17.77	H

LTE Band 66, 1.4MHz QPSK, Channel 131979

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.50	-56.64	5.38	8.01	-54.01	-13.00	41.01	V
5132.00	-58.53	6.85	10.08	-55.30	-13.00	42.30	V
6843.00	-55.83	7.83	11.41	-52.25	-13.00	39.25	H
8554.00	-48.62	8.58	13.01	-44.19	-13.00	31.19	V
11975.50	-56.68	10.17	13.00	-53.85	-13.00	40.85	V
13686.50	-45.49	10.63	14.31	-41.81	-13.00	28.81	V

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.00	-57.27	5.50	8.18	-54.59	-13.00	41.59	H
5235.00	-56.14	7.00	10.23	-52.91	-13.00	39.91	V
6980.00	-54.14	8.14	11.58	-50.70	-13.00	37.70	V
8725.50	-45.21	8.44	13.05	-40.60	-13.00	27.60	V
12215.50	-52.58	10.05	13.09	-49.54	-13.00	36.54	H
13961.00	-44.79	10.83	14.48	-41.14	-13.00	28.14	H

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.50	-60.92	5.91	8.28	-58.55	-13.00	45.55	V
5338.00	-57.64	6.96	10.37	-54.23	-13.00	41.23	V
7117.50	-52.76	8.16	11.74	-49.18	-13.00	36.18	H
8897.00	-43.34	8.84	13.08	-39.10	-13.00	26.10	V
12455.50	-50.80	10.29	13.18	-47.91	-13.00	34.91	V
14235.50	-53.39	10.91	14.45	-49.85	-13.00	36.85	H

LTE Band 71, 5MHz, QPSK, Channel 133147

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3328.00	-46.16	5.30	7.79	2.15	-45.82	-13.00	32.82	H
5991.00	-48.13	7.47	10.50	2.15	-47.25	-13.00	34.25	V
7317.50	-52.60	8.10	11.98	2.15	-50.87	-13.00	37.87	V
7988.50	-47.95	8.34	12.59	2.15	-45.85	-13.00	32.85	H
8654.00	-50.01	8.42	13.03	2.15	-47.55	-13.00	34.55	V
9319.50	-46.31	9.13	13.29	2.15	-44.30	-13.00	31.30	H

LTE Band 71, 5MHz, QPSK, Channel 133297

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3403.50	-46.54	5.37	7.97	2.15	-46.09	-13.00	33.09	V
6126.00	-48.22	7.45	10.63	2.15	-47.19	-13.00	34.19	V
6795.50	-53.77	7.90	11.35	2.15	-52.47	-13.00	39.47	H
7487.00	-48.87	8.36	12.18	2.15	-47.20	-13.00	34.20	V
8168.00	-44.48	8.45	12.73	2.15	-42.35	-13.00	29.35	H
8848.50	-45.60	8.75	13.07	2.15	-43.43	-13.00	30.43	V

LTE Band 71, 5MHz, QPSK, Channel 133447

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3478.00	-47.37	5.48	8.15	2.15	-46.85	-13.00	33.85	H
5565.00	-52.90	7.20	10.59	2.15	-51.66	-13.00	38.66	V
6260.50	-50.01	7.46	10.76	2.15	-48.86	-13.00	35.86	V
7652.50	-46.47	8.21	12.32	2.15	-44.51	-13.00	31.51	H
8348.50	-44.49	8.65	12.88	2.15	-42.41	-13.00	29.41	V
9044.00	-42.85	9.08	13.13	2.15	-40.95	-13.00	27.95	H

LTE CA Band 41C, 5M+20M, CH39683+39800, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4998.50	-54.69	6.61	9.90	-51.40	-25.00	26.40	V
7498.00	-48.11	8.39	12.20	-44.30	-25.00	19.30	H
10003.50	-51.00	9.19	12.90	-47.29	-25.00	22.29	H
12511.50	-49.31	10.21	13.21	-46.31	-25.00	21.31	V
15012.00	-48.69	11.23	13.99	-45.93	-25.00	20.93	H
17487.50	-44.16	12.70	14.87	-41.99	-25.00	16.99	V

LTE CA Band 41C, 5M+20M, CH40528+40645, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5179.50	-53.62	6.93	10.15	-50.40	-25.00	25.40	H
7763.00	-46.86	8.34	12.41	-42.79	-25.00	17.79	H
10336.00	-47.34	9.70	13.03	-44.01	-25.00	19.01	H
12924.50	-49.47	10.50	13.45	-46.52	-25.00	21.52	V
15477.50	-47.88	11.50	13.71	-45.67	-25.00	20.67	V
16803.50	-44.08	12.11	13.72	-42.47	-25.00	17.47	H

LTE CA Band 41C, 5M+20M, CH41373+41490, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5348.50	-45.68	6.94	10.39	-42.23	-25.00	17.23	H
8005.00	-41.70	8.32	12.60	-37.42	-25.00	12.42	H
10699.50	-51.82	9.30	13.14	-47.98	-25.00	22.98	H
13333.50	-47.21	10.58	13.97	-43.82	-25.00	18.82	V
16045.50	-48.13	11.84	13.69	-46.28	-25.00	21.28	V
17333.50	-42.85	12.41	14.53	-40.73	-25.00	15.73	V

CA 2A_4A, 5M+5M, CH18625+19975, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3705.00	-59.96	6.42	8.49	-57.89	-13.00	44.89	H
5557.97	-55.62	7.19	10.59	-52.22	-13.00	39.22	H
7410.47	-53.22	8.15	12.09	-49.28	-13.00	36.28	V
9263.44	-49.46	9.07	13.26	-45.27	-13.00	32.27	H
11109.38	-60.40	9.80	13.18	-57.02	-13.00	44.02	V
12968.91	-57.44	10.48	13.48	-54.44	-13.00	41.44	V

CA 2A_4A, 5M+5M, CH18900+20175, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.31	-57.59	6.26	8.56	-55.29	-13.00	42.29	V
5640.47	-55.32	7.27	10.57	-52.02	-13.00	39.02	V
7520.63	-51.00	8.31	12.22	-47.09	-13.00	34.09	V
9400.78	-52.58	9.04	13.34	-48.28	-13.00	35.28	H
11287.97	-60.19	9.92	13.14	-56.97	-13.00	43.97	V
12128.44	-55.28	10.27	13.05	-52.50	-13.00	39.50	H

CA 2A_4A, 5M+5M, CH19175+20375, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3815.16	-52.37	6.09	8.64	-49.82	-13.00	36.82	V
5722.97	-48.51	7.30	10.56	-45.25	-13.00	32.25	V
7630.78	-46.46	8.11	12.30	-42.27	-13.00	29.27	H
9538.13	-49.68	9.40	13.36	-45.72	-13.00	32.72	H
11420.16	-58.69	10.01	13.12	-55.58	-13.00	42.58	H
13353.75	-47.30	10.57	14.00	-43.87	-13.00	30.87	V

CA 2A_5A, 5M+10M, CH18625+20450, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3705.00	-52.34	6.42	8.49	-50.27	-13.00	37.27	V
5557.97	-46.06	7.19	10.59	-42.66	-13.00	29.66	V
7410.47	-43.10	8.15	12.09	-39.16	-13.00	26.16	H
9263.44	-39.27	9.07	13.26	-35.08	-13.00	22.08	V
3325.78	-60.43	5.30	7.78	-57.95	-13.00	44.95	H
4144.69	-56.35	6.08	9.04	-53.39	-13.00	40.39	V

CA 2A_5A, 5M+10M, CH18900+20525, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.31	-51.45	6.26	8.56	-49.15	-13.00	36.15	V
5640.47	-49.78	7.27	10.57	-46.48	-13.00	33.48	H
7520.63	-45.64	8.31	12.22	-41.73	-13.00	28.73	H
9400.78	-45.40	9.04	13.34	-41.10	-13.00	28.10	H
5019.38	-53.61	6.57	9.93	-50.25	-13.00	37.25	V
7520.63	-45.64	8.31	12.22	-41.73	-13.00	28.73	H

CA 2A_5A, 5M+10M, CH19175+20600, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3815.16	-47.84	6.09	8.64	-45.29	-13.00	32.29	V
5722.97	-37.65	7.30	10.56	-34.39	-13.00	21.39	H
7630.31	-39.31	8.11	12.30	-35.12	-13.00	22.12	H
9538.13	-43.90	9.40	13.36	-39.94	-13.00	26.94	V
13354.22	-40.52	10.57	14.00	-37.09	-13.00	24.09	V
17202.66	-42.98	12.35	14.25	-41.08	-13.00	28.08	V

CA 2A_13A, 5M+5M, CH18625+23205, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3705.00	-51.35	6.42	8.49	-49.28	-13.00	36.28	H
5557.97	-51.94	7.19	10.59	-48.54	-13.00	35.54	V
7410.94	-43.92	8.15	12.09	-39.98	-13.00	26.98	V
9263.44	-42.42	9.07	13.26	-38.23	-13.00	25.23	V
11097.19	-50.79	9.84	13.18	-47.45	-13.00	34.45	H
12968.91	-49.17	10.48	13.48	-46.17	-13.00	33.17	V

CA 2A_13A, 5M+5M, CH18900+23230, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.31	-52.24	6.26	8.56	-49.94	-13.00	36.94	V
5640.47	-50.46	7.27	10.57	-47.16	-13.00	34.16	V
7520.63	-45.68	8.31	12.22	-41.77	-13.00	28.77	V
9400.31	-47.33	9.04	13.34	-43.03	-13.00	30.03	H
11282.81	-50.85	9.89	13.14	-47.60	-13.00	34.60	V
13162.50	-49.87	10.66	13.73	-46.80	-13.00	33.80	H

CA 2A_13A, 5M+5M, CH19175+23255, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3815.16	-49.76	6.09	8.64	-47.21	-13.00	34.21	H
5722.50	-44.49	7.30	10.56	-41.23	-13.00	28.23	H
7630.78	-43.47	8.11	12.30	-39.28	-13.00	26.28	H
9538.13	-45.77	9.40	13.36	-41.81	-13.00	28.81	V
11418.75	-50.21	10.02	13.12	-47.11	-13.00	34.11	V
13353.75	-44.05	10.57	14.00	-40.62	-13.00	27.62	V

CA 2A_66A, 5M+10M, CH18625+132022, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3705.00	-54.08	6.42	8.49	-52.01	-13.00	39.01	V
5557.97	-52.63	7.19	10.59	-49.23	-13.00	36.23	V
11116.41	-48.21	9.76	13.18	-44.79	-13.00	31.79	V
3430.78	-58.91	5.39	8.03	-56.27	-13.00	43.27	H
8574.38	-50.49	8.54	13.01	-46.02	-13.00	33.02	V
13720.31	-45.38	10.60	14.33	-41.65	-13.00	28.65	H

CA 2A_66A, 5M+10M, CH18900+132322, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5235.00	-51.84	7.00	10.23	-48.61	-13.00	35.61	H
5640.47	-49.92	7.27	10.57	-46.62	-13.00	33.62	V
6980.63	-46.22	8.15	11.58	-42.79	-13.00	29.79	V
8726.25	-41.07	8.44	13.05	-36.46	-13.00	23.46	H
12216.09	-45.54	10.05	13.09	-42.50	-13.00	29.50	V
13961.72	-36.01	10.83	14.48	-32.36	-13.00	19.36	V

CA 2A_66A, 5M+10M, CH19175+132622, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5722.97	-44.20	7.30	10.56	-40.94	-13.00	27.94	H
9510.94	-52.35	9.50	13.39	-48.46	-13.00	35.46	V
11445.94	-38.98	9.95	13.11	-35.82	-13.00	22.82	V
13328.91	-47.65	10.58	13.96	-44.27	-13.00	31.27	V
15226.88	-48.15	11.37	13.86	-45.66	-13.00	32.66	H
17172.19	-42.61	12.44	14.18	-40.87	-13.00	27.87	H

CA 4A_13A, 5M+5M, CH19975+23205, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3425.16	-54.49	5.38	8.02	-51.85	-13.00	38.85	V
5137.97	-49.13	6.86	10.09	-45.90	-13.00	32.90	V
6850.78	-48.43	7.82	11.42	-44.83	-13.00	31.83	V
8563.59	-45.83	8.56	13.01	-41.38	-13.00	28.38	H
12002.81	-49.38	10.06	13.00	-46.44	-13.00	33.44	V
13702.03	-38.95	10.60	14.32	-35.23	-13.00	22.23	H

CA 4A_13A, 5M+5M, CH20175+23230, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.47	-54.56	5.46	8.12	-51.90	-13.00	38.90	H
5197.97	-46.81	6.96	10.18	-43.59	-13.00	30.59	H
6930.00	-46.41	7.76	11.52	-42.65	-13.00	29.65	H
8663.44	-45.09	8.41	13.03	-40.47	-13.00	27.47	V
12128.91	-48.34	10.26	13.05	-45.55	-13.00	32.55	H
13861.41	-34.11	10.73	14.42	-30.42	-13.00	17.42	H

CA 4A_13A, 5M+5M, CH20375+23255, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3505.31	-57.56	5.53	8.21	-54.88	-13.00	41.88	V
5257.97	-52.90	7.00	10.26	-49.64	-13.00	36.64	V
7010.63	-47.84	8.28	11.61	-44.51	-13.00	31.51	H
8763.28	-45.55	8.55	13.05	-41.05	-13.00	28.05	V
12268.59	-49.15	10.02	13.11	-46.06	-13.00	33.06	H
14021.25	-41.04	10.90	14.50	-37.44	-13.00	24.44	H

CA 5A_66A, 5M+10M, CH20425+132022, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3307.03	-51.51	5.29	10.41	2.15	-48.54	-13.00	35.54	V
4132.03	-56.87	6.05	10.40	2.15	-54.67	-13.00	41.67	V
4959.84	-54.77	6.67	11.22	2.15	-52.37	-13.00	39.37	H
3430.31	-59.00	5.39	10.44	2.15	-56.10	-13.00	43.10	V
8587.03	-48.02	8.52	11.37	2.15	-47.32	-13.00	34.32	H
13720.31	-43.64	10.60	12.74	2.15	-43.65	-13.00	30.65	V

CA 5A_66A, 5M+10M, CH20525+132322, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.31	-57.71	5.50	10.56	2.15	-54.80	-13.00	41.80	V
8728.59	-48.19	8.45	11.30	2.15	-47.49	-13.00	34.49	H
13960.31	-41.49	10.83	12.46	2.15	-42.01	-13.00	29.01	H
3346.88	-54.67	5.32	10.49	2.15	-51.65	-13.00	38.65	H
4183.59	-55.43	6.17	10.47	2.15	-53.28	-13.00	40.28	V
5019.84	-54.73	6.57	11.34	2.15	-52.11	-13.00	39.11	H

CA 5A_66A, 5M+10M, CH20625+132622, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7099.69	-48.74	8.16	10.50	2.15	-48.55	-13.00	35.55	H
8879.06	-47.35	8.81	11.46	2.15	-46.85	-13.00	33.85	H
2540.00	-37.49	4.66	10.12	2.15	-34.18	-13.00	21.18	H
3386.25	-58.74	5.35	10.50	2.15	-55.74	-13.00	42.74	V
4233.28	-55.60	6.26	10.57	2.15	-53.44	-13.00	40.44	H
5079.38	-56.27	6.71	11.46	2.15	-53.67	-13.00	40.67	H

CA 13A_66A, 5M+10M, CH23205+132022, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3430.31	-57.07	5.39	8.03	2.15	-56.58	-13.00	43.58	H
5146.41	-55.34	6.88	10.10	2.15	-54.27	-13.00	41.27	H
6855.00	-53.00	7.82	11.43	2.15	-51.54	-13.00	38.54	V
3119.06	-55.05	5.38	7.29	2.15	-55.29	-13.00	42.29	V
3903.28	-56.99	6.11	8.76	2.15	-56.49	-13.00	43.49	V
4678.13	-53.06	6.49	9.58	2.15	-52.12	-13.00	39.12	H

CA 13A_66A, 5M+10M, CH23230+132322, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3128.91	-49.58	5.40	7.31	2.15	-49.82	-13.00	36.82	H
3910.78	-56.09	6.12	8.78	2.15	-55.58	-13.00	42.58	V
4692.66	-51.12	6.50	9.59	2.15	-50.18	-13.00	37.18	H
3435.00	-57.83	5.40	8.04	2.15	-57.34	-13.00	44.34	V
5144.53	-55.87	6.87	10.10	2.15	-54.79	-13.00	41.79	V
6861.56	-53.87	7.81	11.43	2.15	-52.40	-13.00	39.40	H

CA 13A_66A, 5M+10M, CH23255+132622, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3138.28	-50.36	5.38	7.33	2.15	-50.56	-13.00	37.56	V
3923.44	-56.81	6.12	8.79	2.15	-56.29	-13.00	43.29	H
4708.13	-48.68	6.51	9.61	2.15	-47.73	-13.00	34.73	V
3548.44	-57.98	5.81	8.27	2.15	-57.67	-13.00	44.67	H
7100.16	-49.77	8.16	11.72	2.15	-48.36	-13.00	35.36	V
8876.25	-49.39	8.80	13.08	2.15	-47.26	-13.00	34.26	V

Note: Peak EIRP (dBm) = P_{Mea}(dBm) - Path Loss(dB) + Antenna Gain(dBi)

Note: Expanded measurement uncertainty is U = 5.64 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 decrements 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	3.85	1850.833	1909.231		
50				25.61	0.0136
40				3.48	0.0019
30				0.20	0.0001
10				-0.49	0.0003
0				25.13	0.0134
-10				26.35	0.0140
-20				5.49	0.0029
-30				25.41	0.0135

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.833	1909.231	28.32	0.0151
4.4				2.98	0.0016

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	824.417	848.583		
50				-0.36	0.0004
40				-0.07	0.0001
30				-0.89	0.0011
10				-2.65	0.0032
0				-6.48	0.0077
-10				-1.85	0.0022
-20				-2.96	0.0035
-30				-3.32	0.0040

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.417	848.583	-0.29	0.0003
4.4				-3.53	0.0042

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	3.85	2500.641	2569.327		
50				-0.66	0.0003
40				2.65	0.0010
30				4.02	0.0016
10				3.39	0.0013
0				1.52	0.0006
-10				42.86	0.0169
-20				3.02	0.0012
-30				-1.36	0.0005

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2500.641	2569.327	1.97	0.0008
4.4				-1.36	0.0005

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	699.465	715.519		
50				13.39	0.0189
40				13.63	0.0193
30				-0.24	0.0003
10				-0.33	0.0005
0				0.44	0.0006
-10				-0.01	0.0000
-20				0.93	0.0013
-30				-11.94	0.0169

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	699.465	715.519	-0.19	0.0003
4.4				13.80	0.0195

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	3.85	777.465	786.535		
50				-13.70	0.0175
40				-13.32	0.0170
30				-13.68	0.0175
10				-12.99	0.0166
0				-14.12	0.0181
-10				-11.89	0.0152
-20				-12.15	0.0155
-30				-16.88	0.0216

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	777.465	786.535	-0.39	0.0005
4.4				-12.85	0.0164

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	3.85	1850.833	1914.199		
50				3.29	0.0017
40				54.82	0.0291
30				11.77	0.0063
10				3.13	0.0017
0				13.22	0.0070
-10				-1.40	0.0007
-20				28.75	0.0153
-30				1.97	0.0010

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.833	1914.199	24.19	0.0128
4.4				10.19	0.0054

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	3.85	814.370	823.620		
50				-1.69	0.0021
40				-1.82	0.0022
30				-2.32	0.0028
10				-3.95	0.0048
0				12.20	0.0149
-10				0.43	0.0005
-20				-2.29	0.0028
-30				0.06	0.0001

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	814.370	823.620	-3.82	0.0047
4.4				-3.13	0.0038

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	3.85	824.553	848.471		
50				-1.20	0.0014
40				-2.16	0.0026
30				-2.42	0.0029
10				-1.07	0.0013
0				-2.07	0.0025
-10				-2.35	0.0028
-20				-3.26	0.0039
-30				-2.12	0.0025

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.553	848.471	-0.80	0.0010
4.4				-1.22	0.0015

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	3.85	2496.385	2689.551		
50				0.82	0.0003
40				-3.28	0.0013
30				1.56	0.0006
10				-4.02	0.0016
0				-1.56	0.0006
-10				1.93	0.0007
-20				1.42	0.0005
-30				3.00	0.0012

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.385	2689.551	0.64	0.0002
4.4				1.56	0.0006

LTE Band 48, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	3550.833	3699.199		
50				-29.65	0.0082
40				-31.29	0.0086
30				-31.89	0.0088
10				-26.99	0.0074
0				-28.72	0.0079
-10				-29.68	0.0082
-20				-34.78	0.0096
-30				-33.89	0.0093

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	3550.833	3699.199	-26.72	0.0074
4.4				-30.03	0.0083

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	3.85	1710.833	1779.199		
50				12.06	0.0069
40				-38.47	0.0220
30				-37.12	0.0213
10				15.03	0.0086
0				26.52	0.0152
-10				-36.49	0.0209
-20				-0.34	0.0002
-30				-35.91	0.0206

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.833	1779.199	-19.68	0.0113
4.4				-3.46	0.0020

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	663.994	697.006		
50				-0.76	0.0011
40				-5.18	0.0076
30				-0.27	0.0004
10				-0.92	0.0014
0				-1.04	0.0015
-10				-2.45	0.0036
-20				-0.04	0.0001
-30				-0.60	0.0009

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	663.994	697.006	-0.57	0.0008
4.4				-0.49	0.0007

LTE CA band 41C, 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	3.85	2496.880	2689.120		
50				3.89	0.0015
40				-2.99	0.0012
30				-0.63	0.0002
10				4.54	0.0017
0				-1.03	0.0004
-10				-0.47	0.0002
-20				0.60	0.0002
-30				1.05	0.0004

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.880	2689.120	0.44	0.0002
4.4				1.42	0.0005

LTE CA band 66B, 10MHz+10MHz 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	3.85	1710.320	1779.680		
50				1.67	0.0010
40				4.62	0.0026
30				2.16	0.0012
10				3.52	0.0020
0				5.25	0.0030
-10				-1.77	0.0010
-20				2.55	0.0015
-30				-4.23	0.0024

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.320	1779.680	4.62	0.0026
4.4				0.99	0.0006

LTE CA band 66C, 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	3.85	1710.500	1779.480		
50				-0.69	0.0004
40				0.49	0.0003
30				1.76	0.0010
10				1.20	0.0007
0				-4.15	0.0024
-10				-4.21	0.0024
-20				-1.27	0.0007
-30				-0.34	0.0002

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.500	1779.480	-1.50	0.0009
4.4				-5.05	0.0029

Note: Expanded measurement uncertainty is U = 0.01 PPM, k = 2.

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.

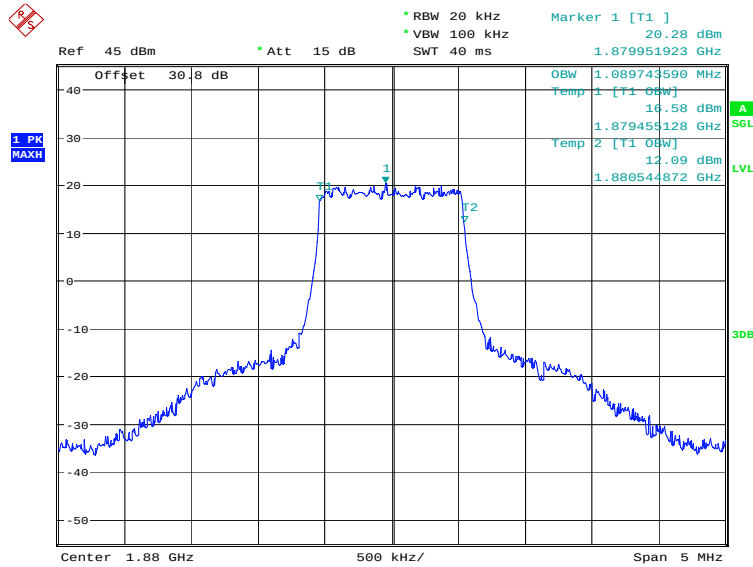
The measurement method is from ANSI C63.26:

- 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%)

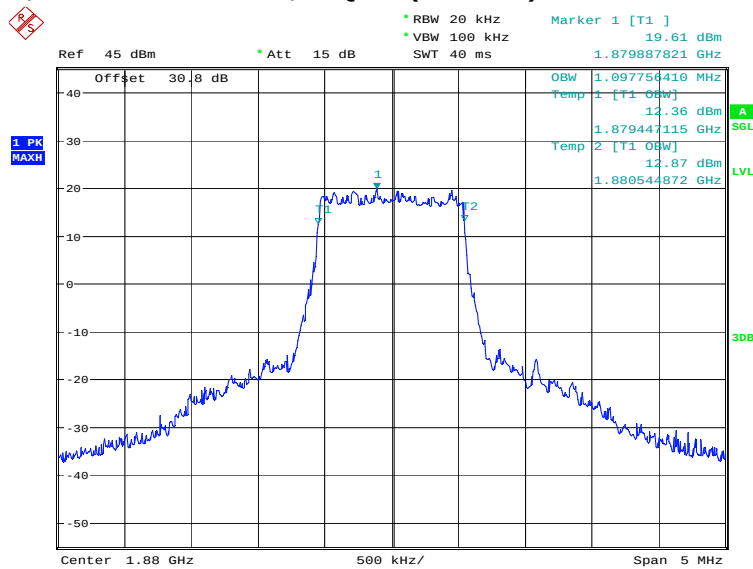
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	1089.74	1097.76

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



Date: 22.DEC.2023 07:09:22

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

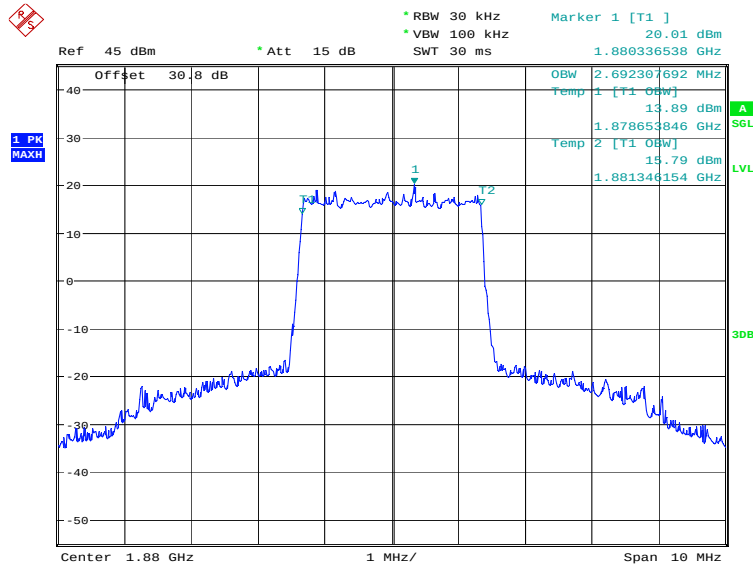


Date: 22.DEC.2023 07:10:01

LTE band 2, 3MHz (99%)

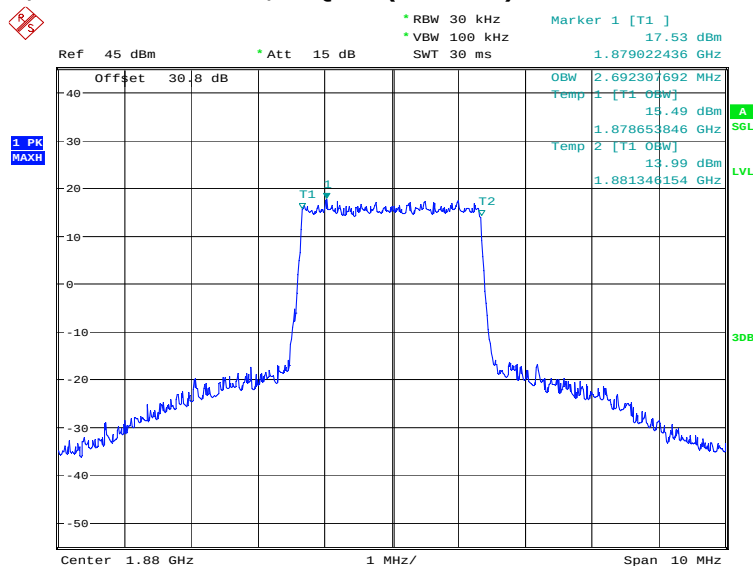
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 22.DEC.2023 07:10:43

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

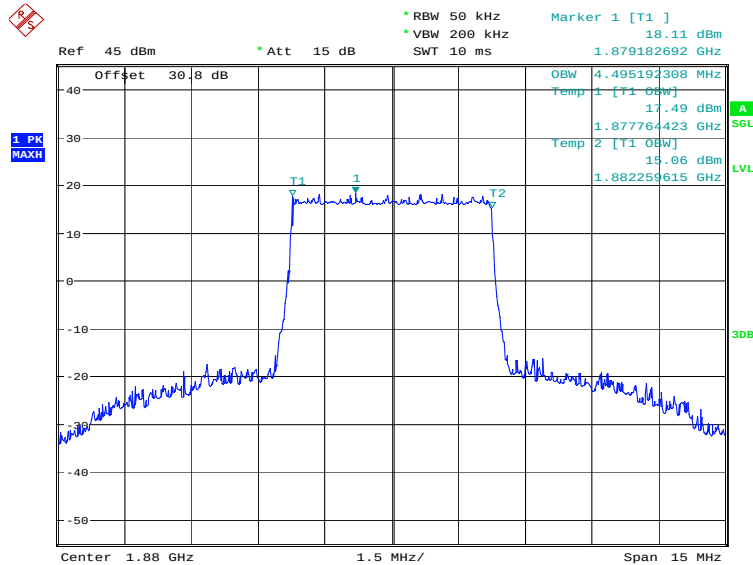


Date: 22.DEC.2023 07:11:23

LTE band 2, 5MHz (99%)

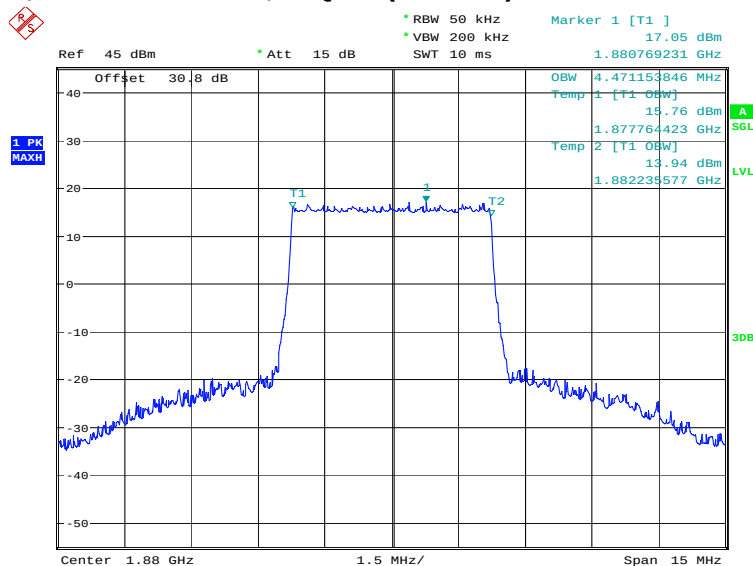
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	4495.19	4471.15

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



Date: 22.DEC.2023 07:12:05

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

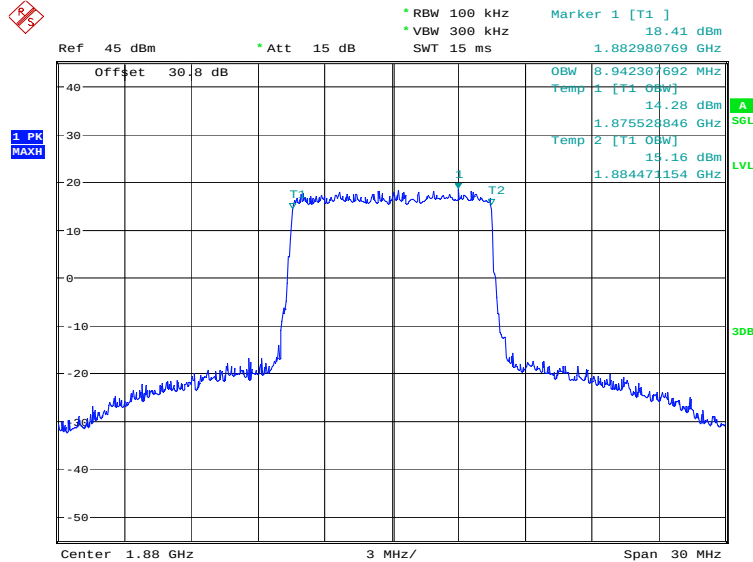


Date: 22.DEC.2023 07:12:45

LTE band 2, 10MHz (99%)

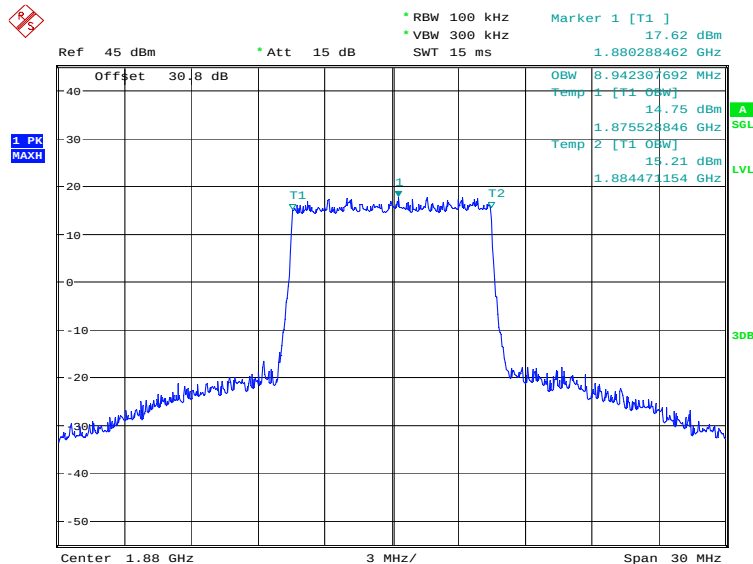
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 22.DEC.2023 07:13:27

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

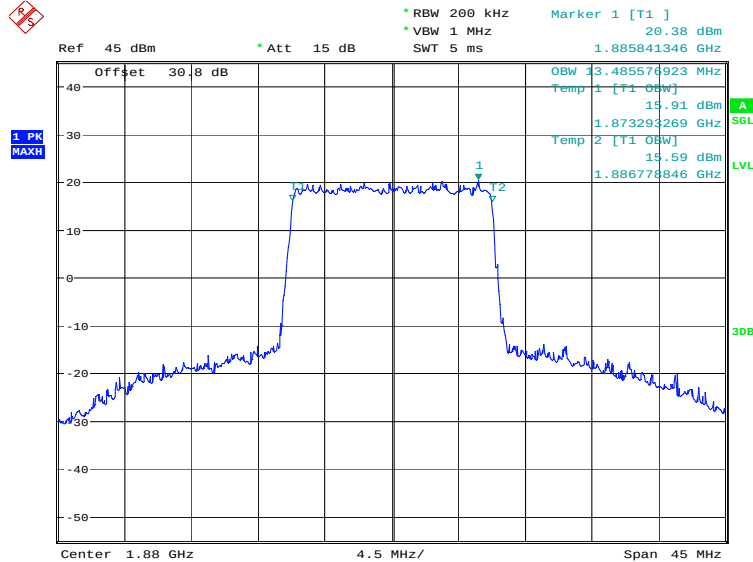


Date: 22.DEC.2023 07:14:06

LTE band 2, 15MHz (99%)

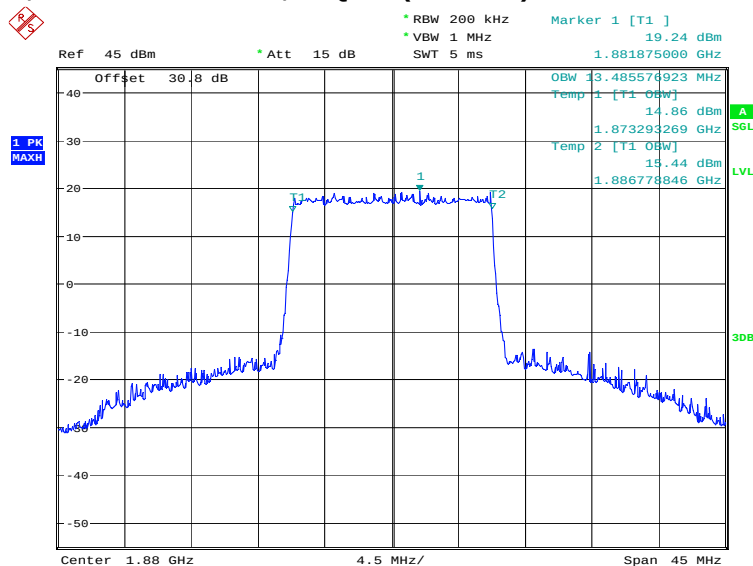
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 22.DEC.2023 07:14:48

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

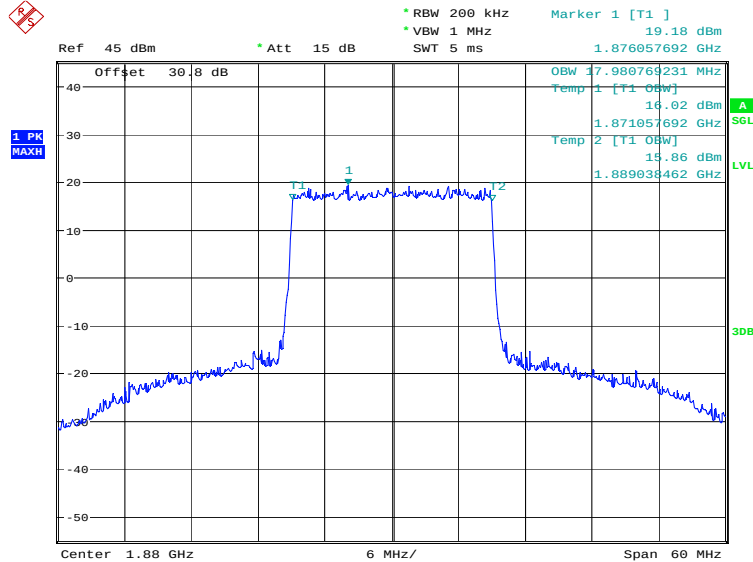


Date: 22.DEC.2023 07:15:28

LTE band 2, 20MHz (99%)

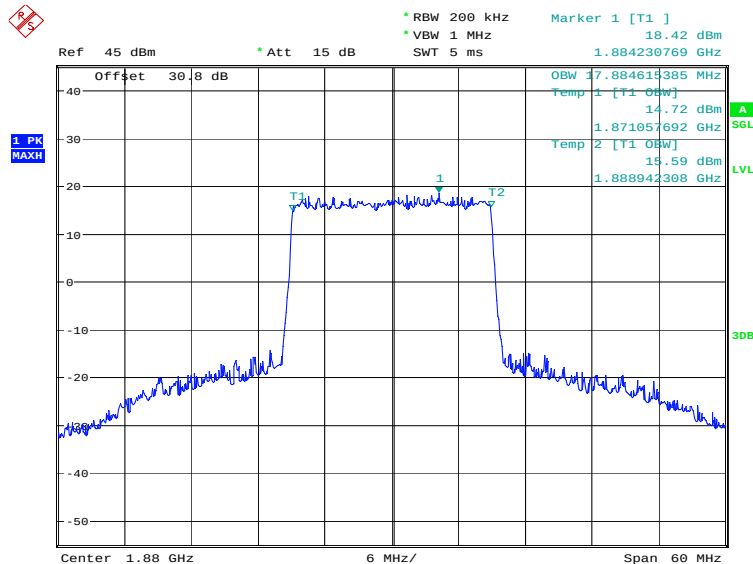
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	17980.77	17884.62

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



Date: 22.DEC.2023 07:16:10

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

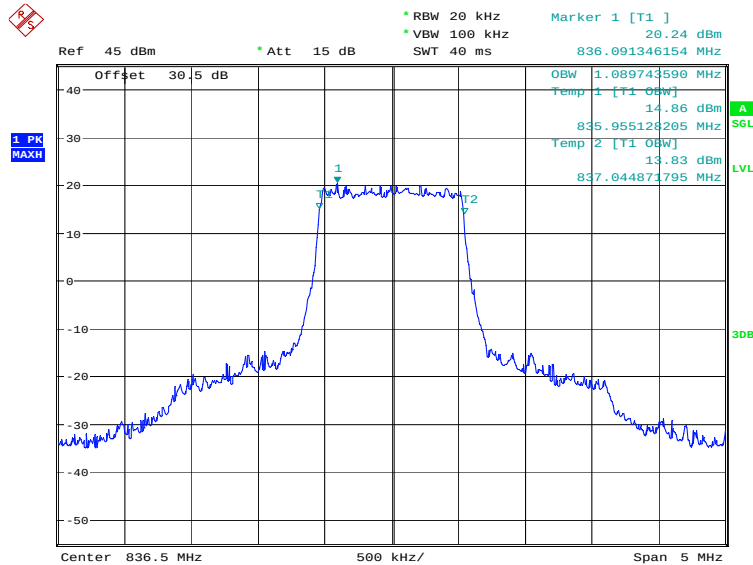


Date: 22.DEC.2023 07:16:50

LTE band 5, 1.4MHz (99%)

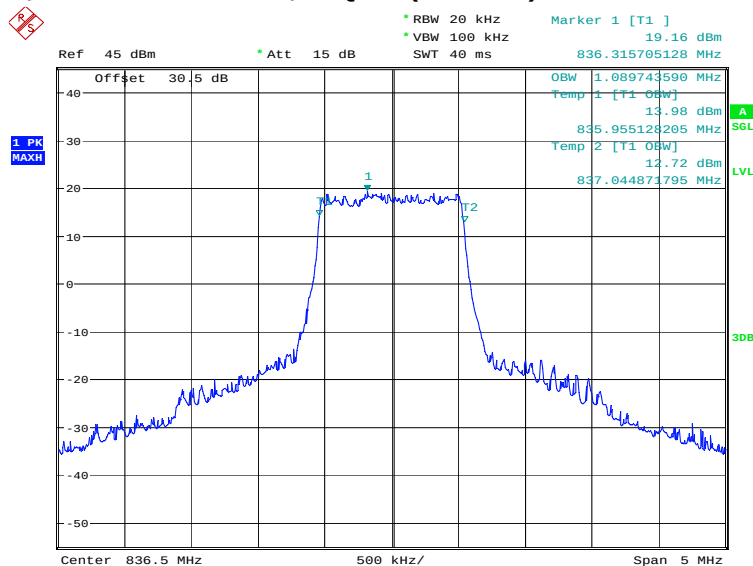
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1089.74	1089.74

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



Date: 22.DEC.2023 08:23:26

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

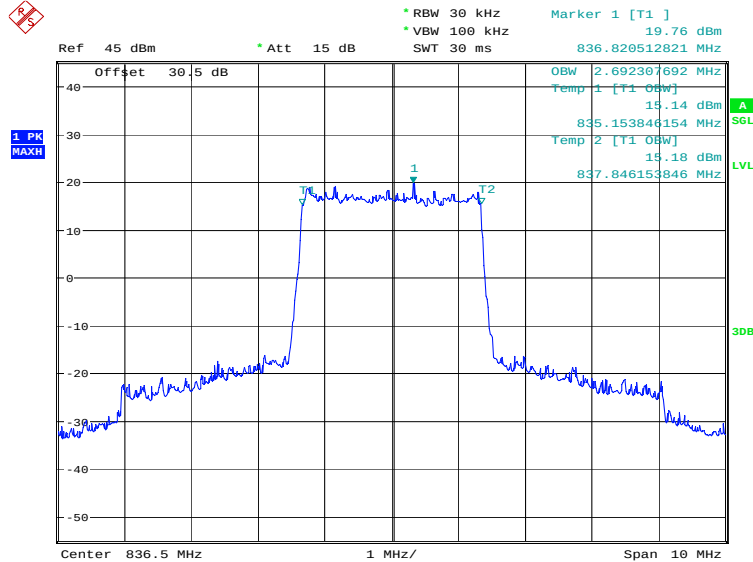


Date: 22.DEC.2023 08:24:06

LTE band 5, 3MHz (99%)

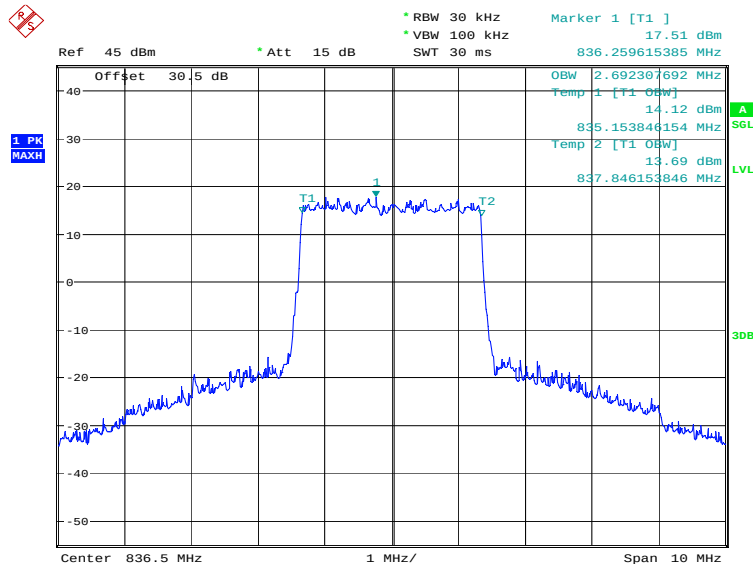
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 22.DEC.2023 08:24:48

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

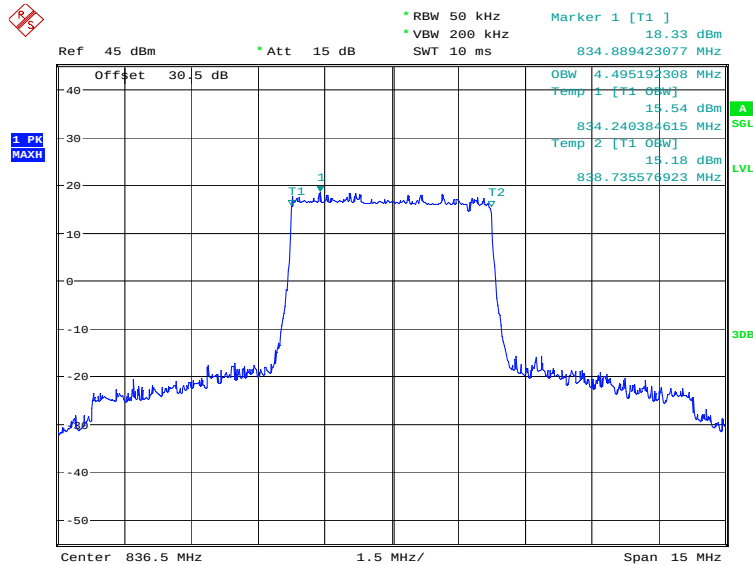


Date: 22.DEC.2023 08:25:27

LTE band 5, 5MHz (99%)

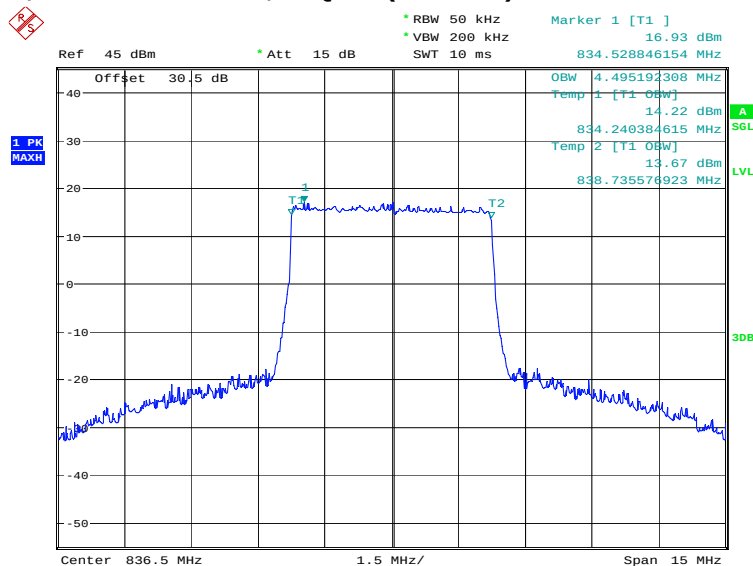
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	4495.19	4495.19

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



Date: 22.DEC.2023 08:26:09

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

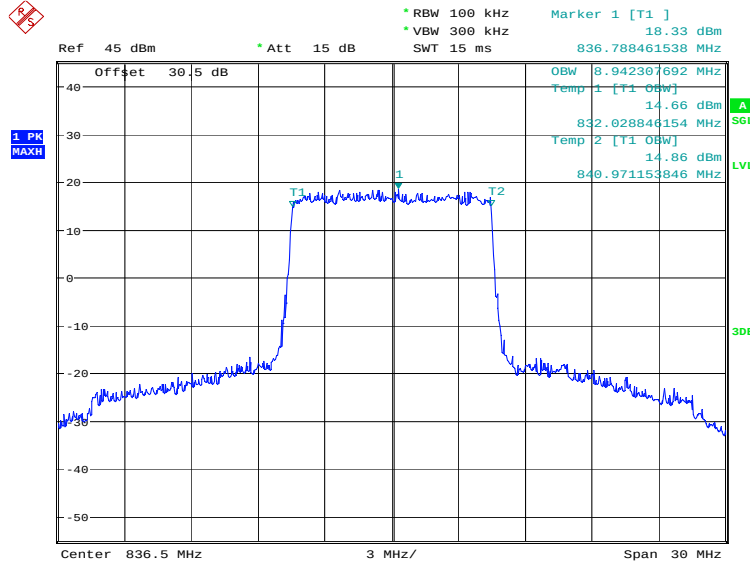


Date: 22.DEC.2023 08:26:49

LTE band 5, 10MHz (99%)

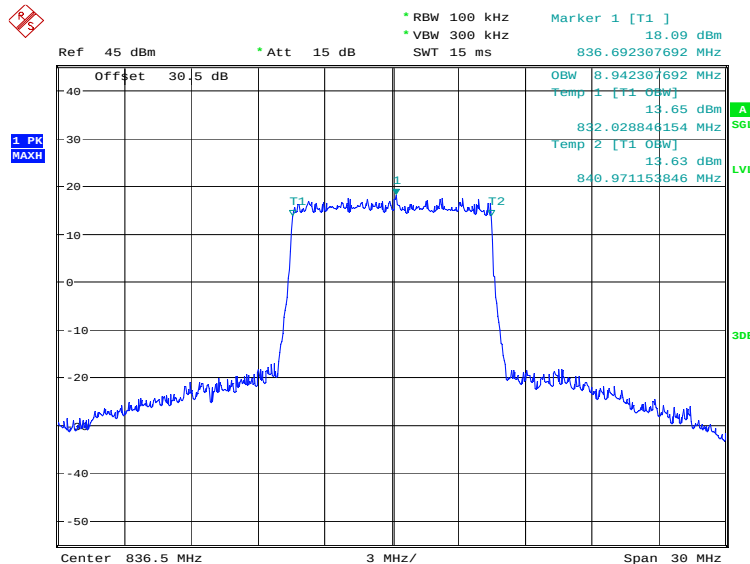
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8942.31	8942.31

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



Date: 22.DEC.2023 08:27:31

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

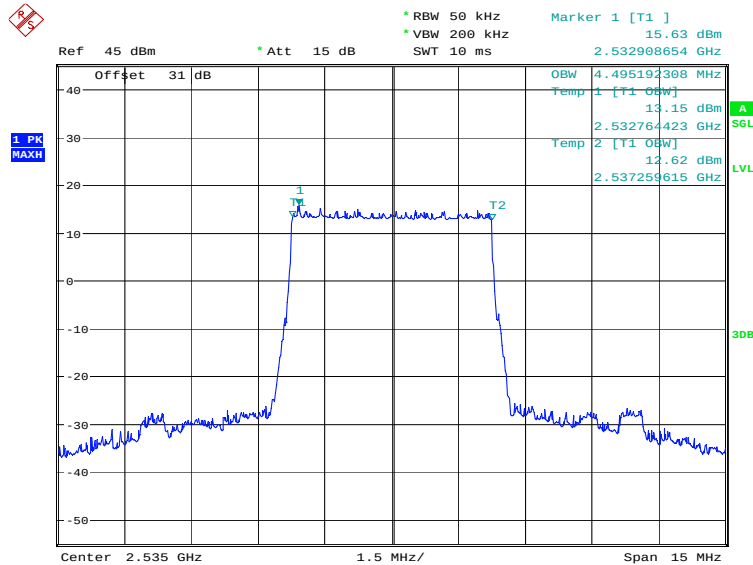


Date: 22.DEC.2023 08:28:11

LTE band 7, 5MHz (99%)

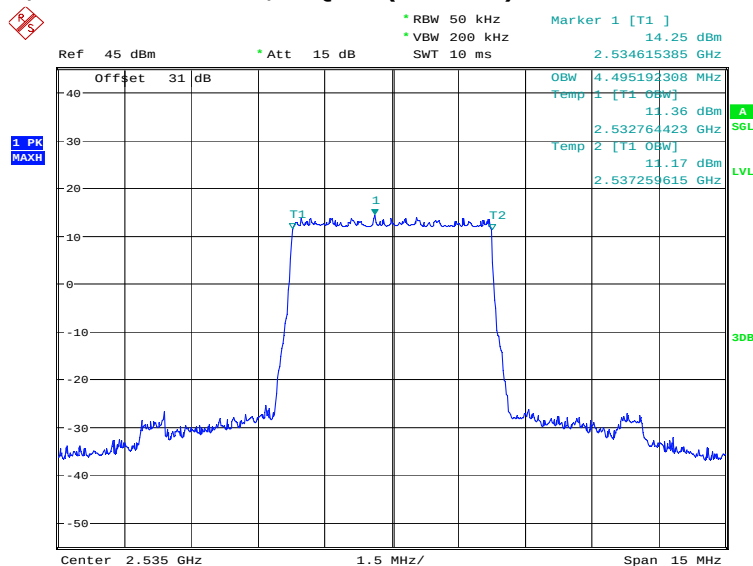
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 5.DEC.2023 13:25:19

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

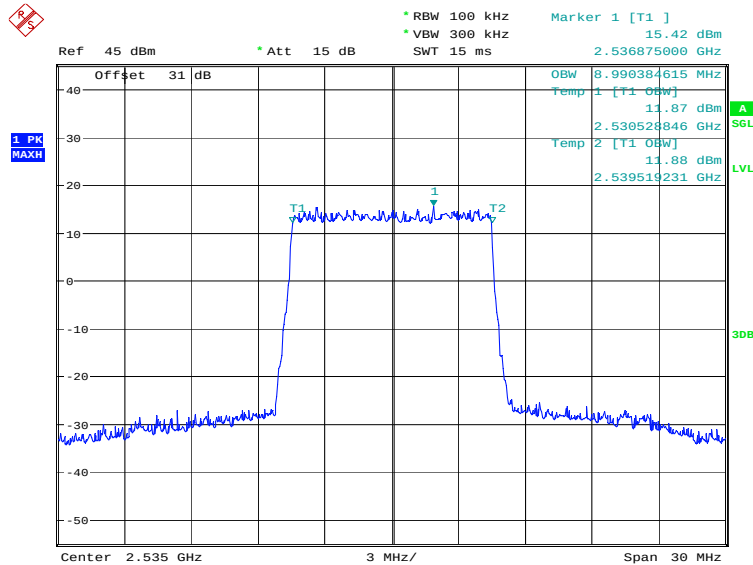


Date: 5.DEC.2023 13:25:59

LTE band 7, 10MHz (99%)

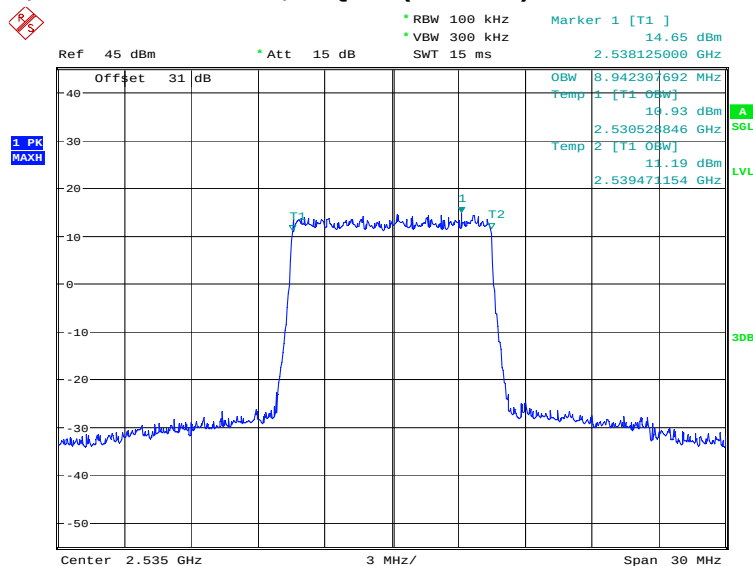
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	8990.38	8942.31

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



Date: 5.DEC.2023 13:26:41

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

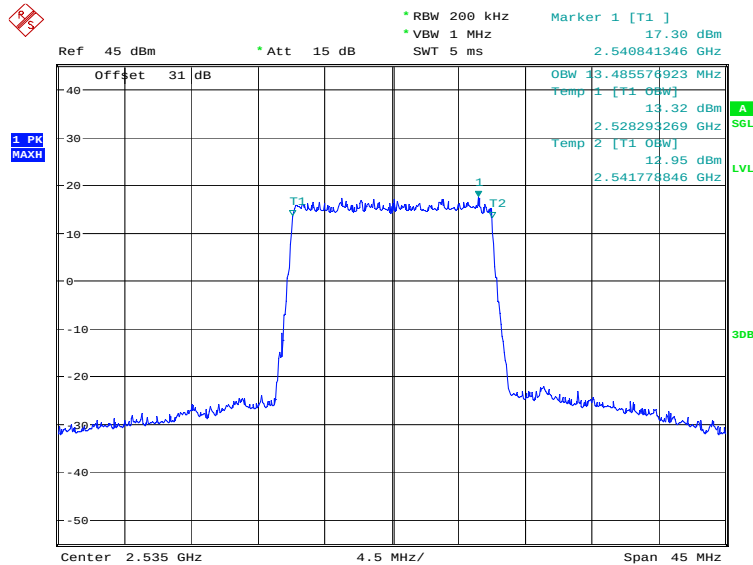


Date: 5.DEC.2023 13:27:21

LTE band 7, 15MHz (99%)

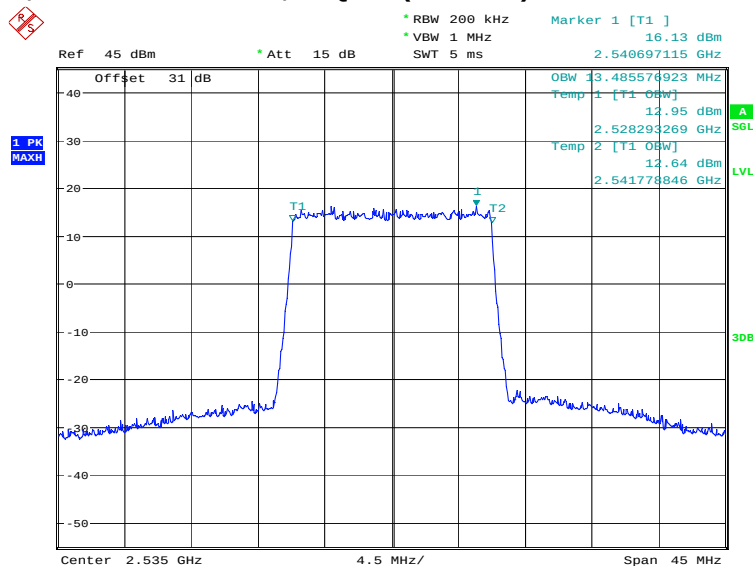
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 5.DEC.2023 13:28:03

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

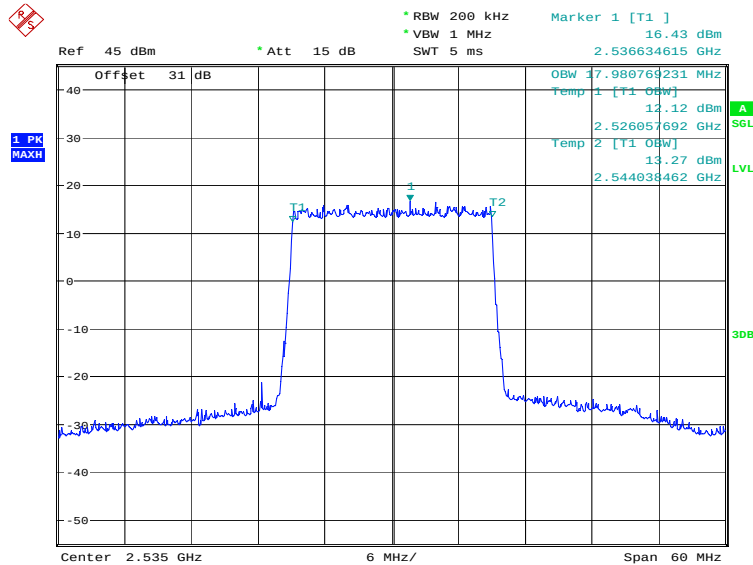


Date: 5.DEC.2023 13:28:43

LTE band 7, 20MHz (99%)

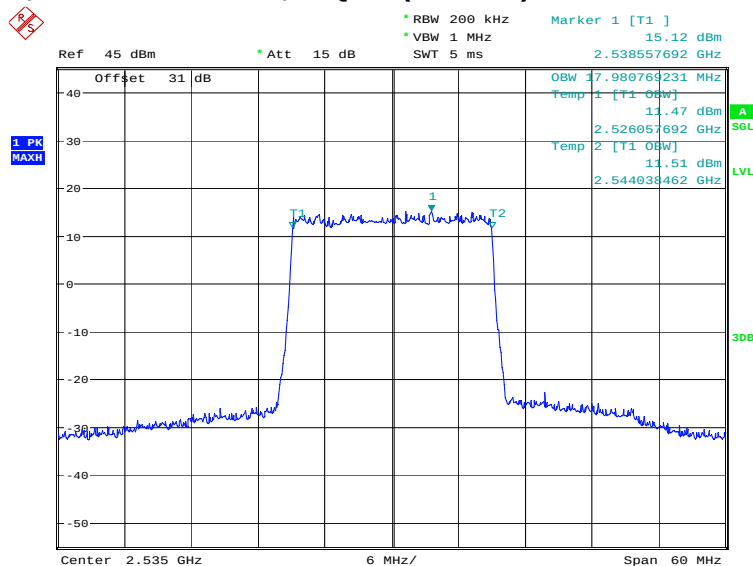
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	17980.77	17980.77

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



Date: 5.DEC.2023 13:29:25

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

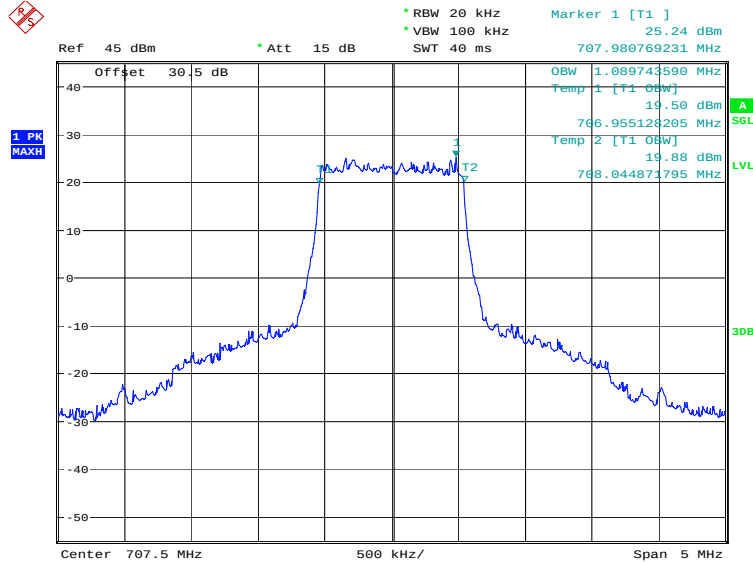


Date: 5.DEC.2023 13:30:05

LTE band 12, 1.4MHz (99%)

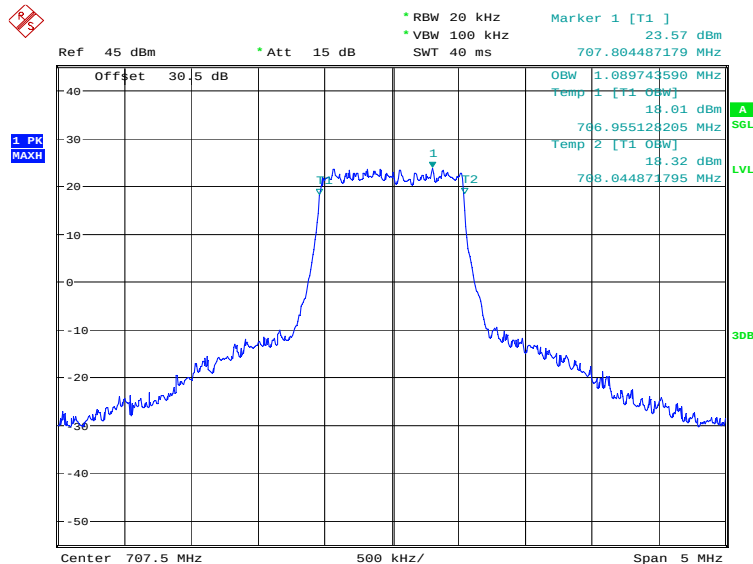
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	1089.74	1089.74

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



Date: 5.DEC.2023 12:28:05

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

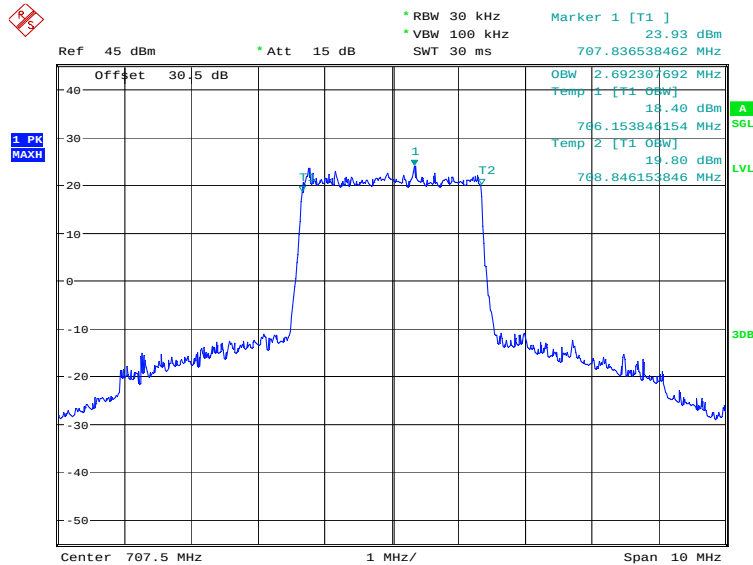


Date: 5.DEC.2023 12:28:44

LTE band 12, 3MHz (99%)

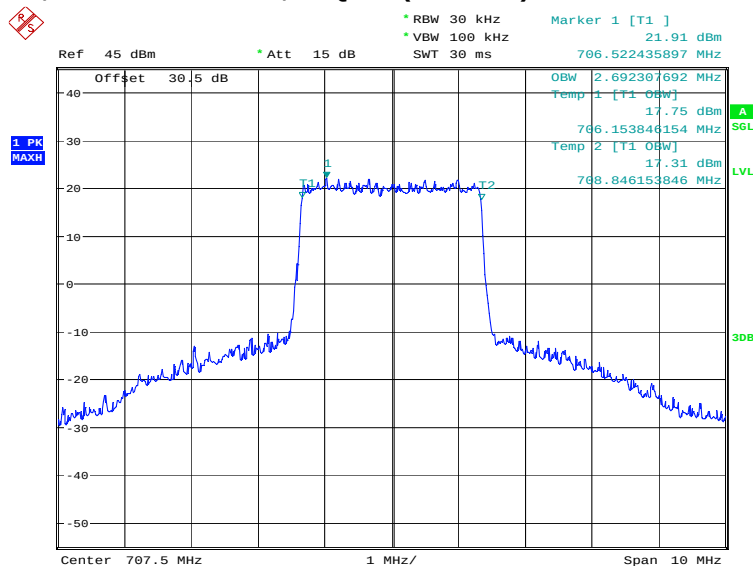
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 5.DEC.2023 12:29:26

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

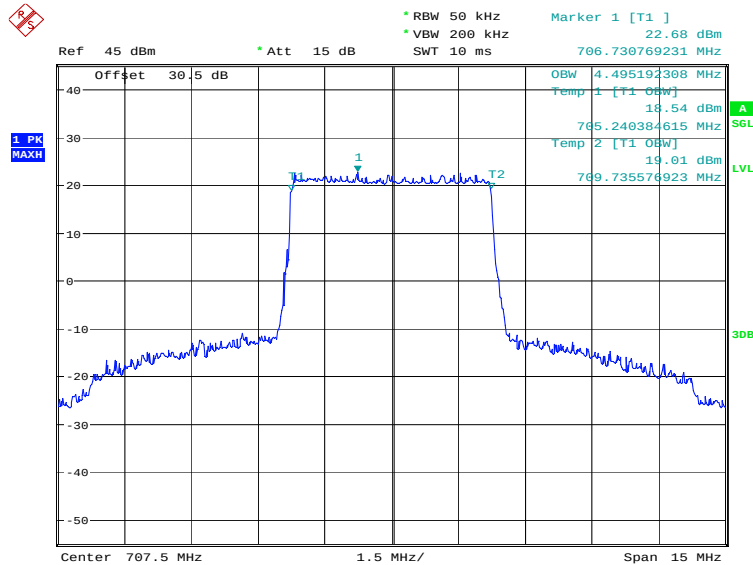


Date: 5.DEC.2023 12:30:06

LTE band 12, 5MHz (99%)

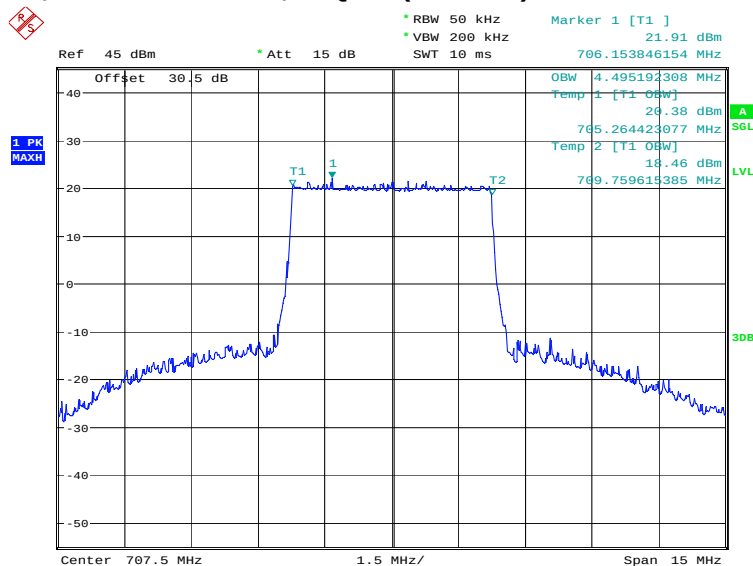
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	4495.19	4495.19

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



Date: 5.DEC.2023 12:30:48

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

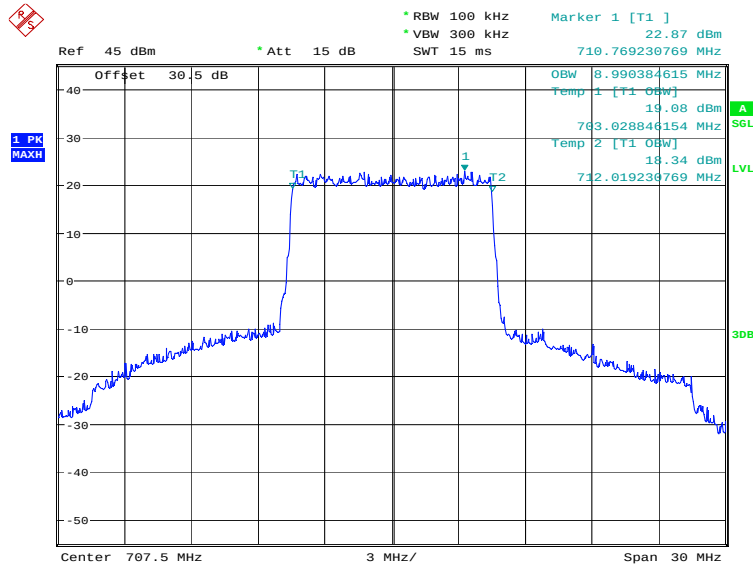


Date: 5.DEC.2023 12:31:28

LTE band 12, 10MHz (99%)

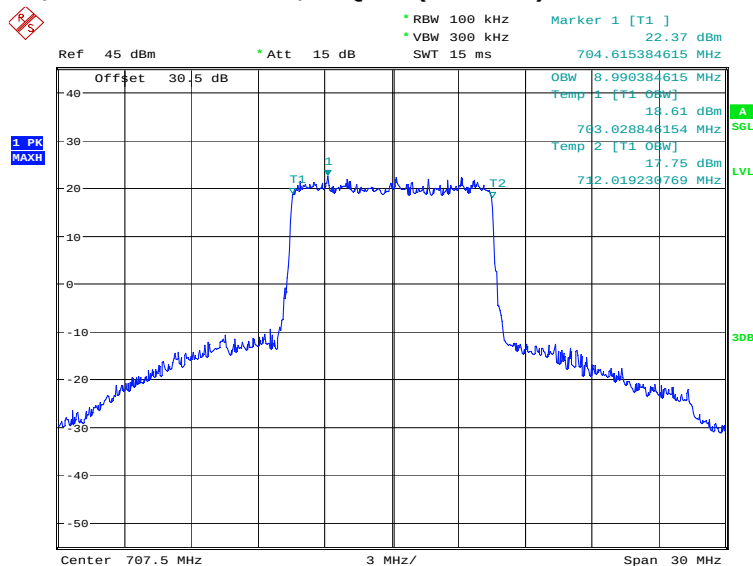
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	8990.38	8990.38

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



Date: 5.DEC.2023 12:32:09

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

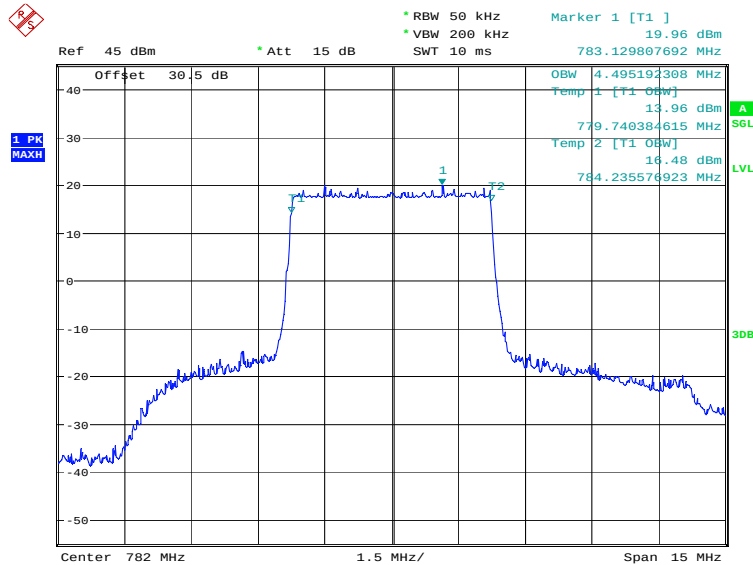


Date: 5.DEC.2023 12:32:49

LTE band 13, 5MHz (99%)

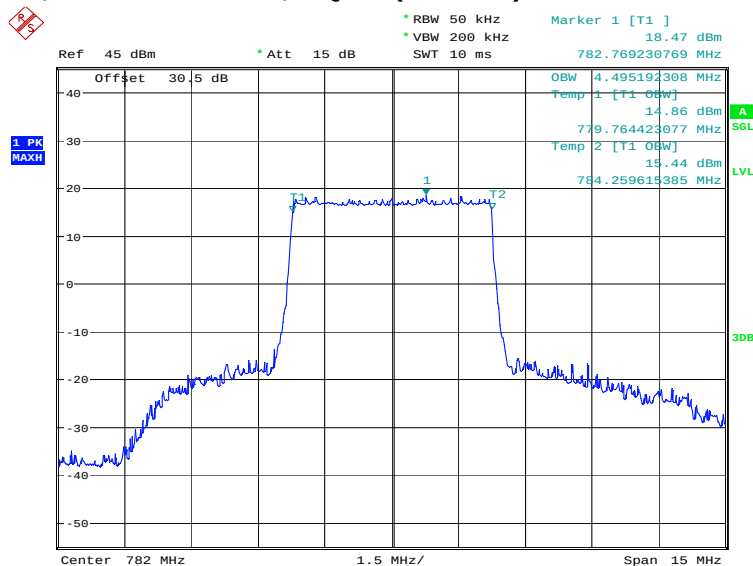
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 5.DEC.2023 12:33:33

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

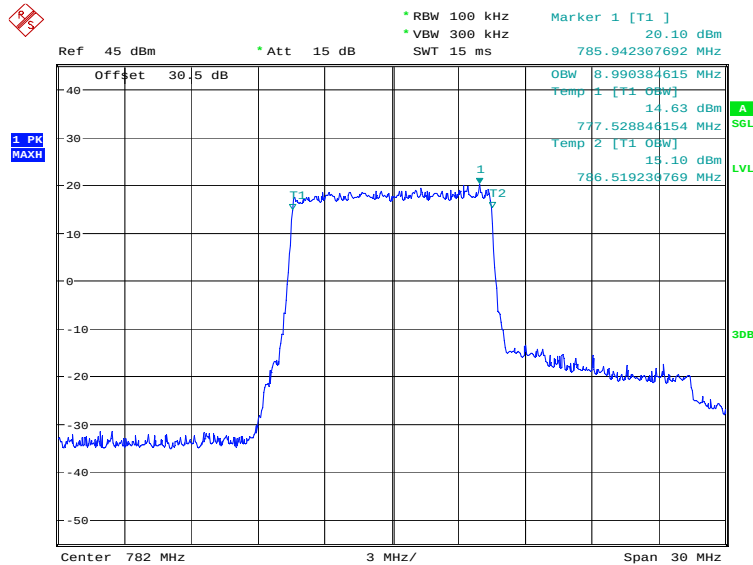


Date: 5.DEC.2023 12:34:13

LTE band 13, 10MHz (99%)

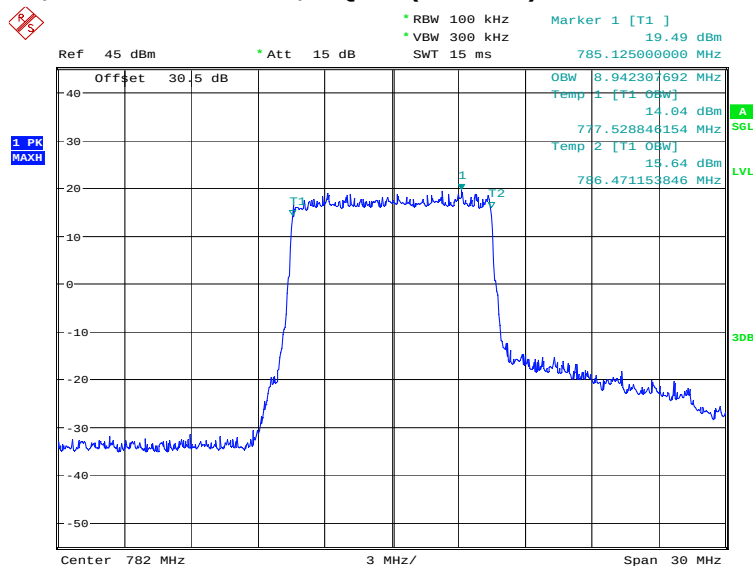
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	8990.38	8942.31

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



Date: 5.DEC.2023 12:34:55

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

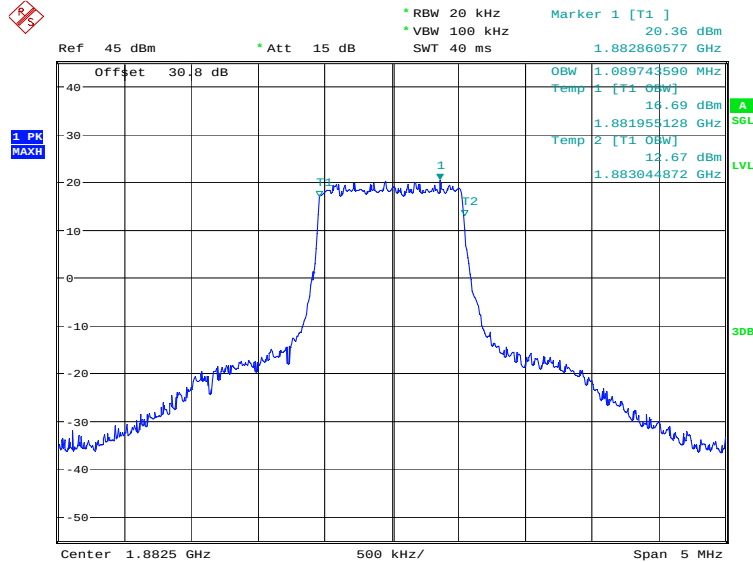


Date: 5.DEC.2023 12:35:34

LTE band 25, 1.4MHz (99%)

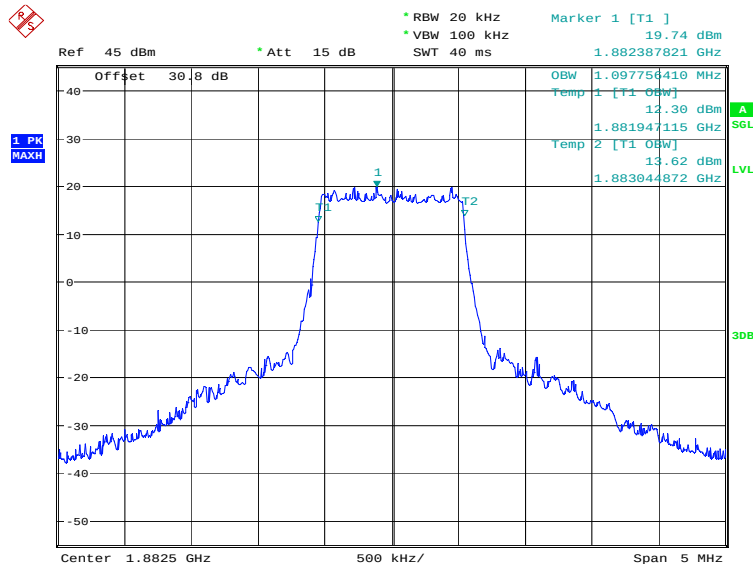
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	1089.74	1097.76

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



Date: 5.DEC.2023 10:47:37

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

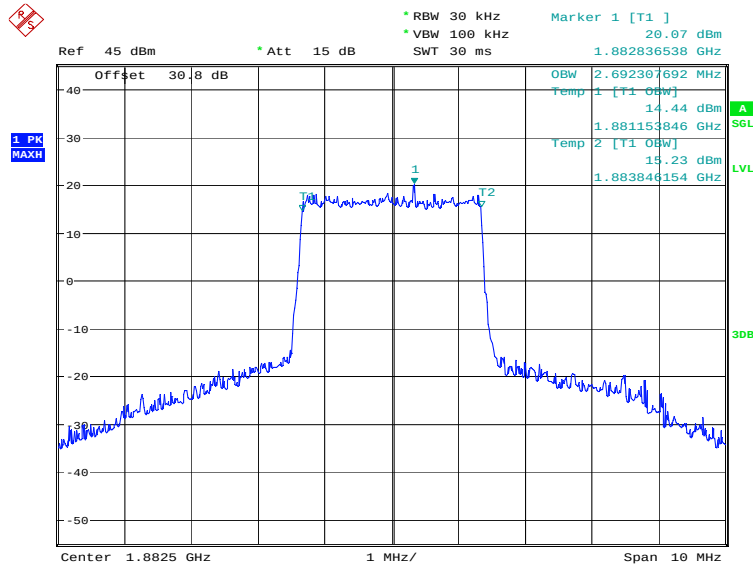


Date: 5.DEC.2023 10:48:17

LTE band 25, 3MHz (99%)

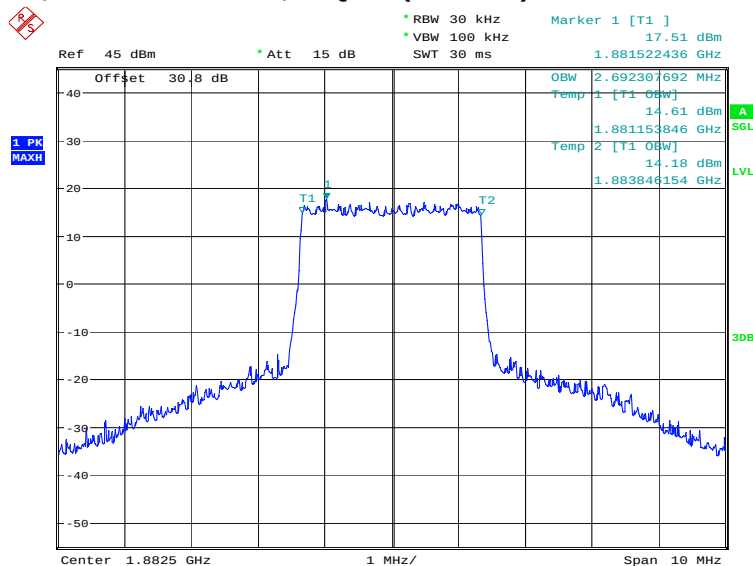
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 5.DEC.2023 10:48:59

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

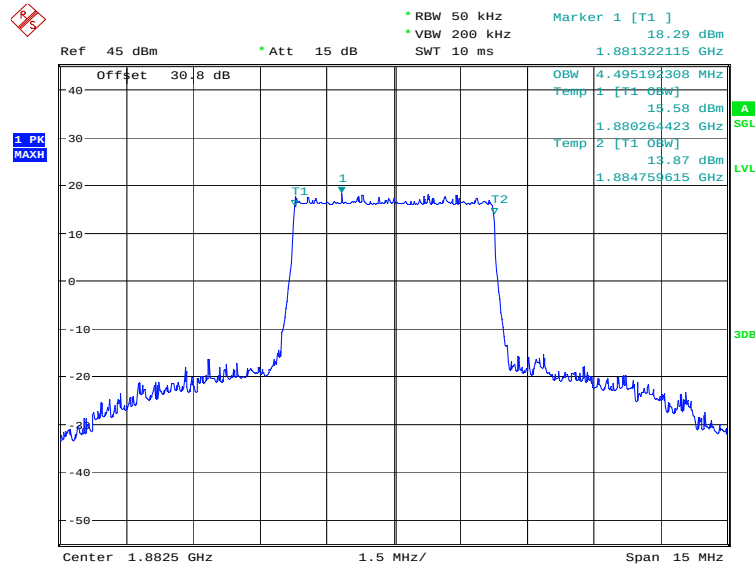


Date: 5.DEC.2023 10:49:38

LTE band 25, 5MHz (99%)

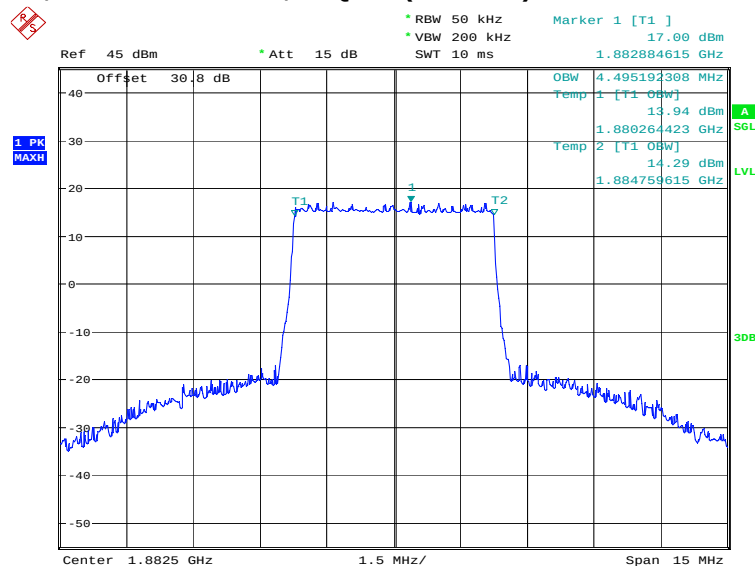
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	4495.19	4495.19

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



Date: 5.DEC.2023 10:50:20

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

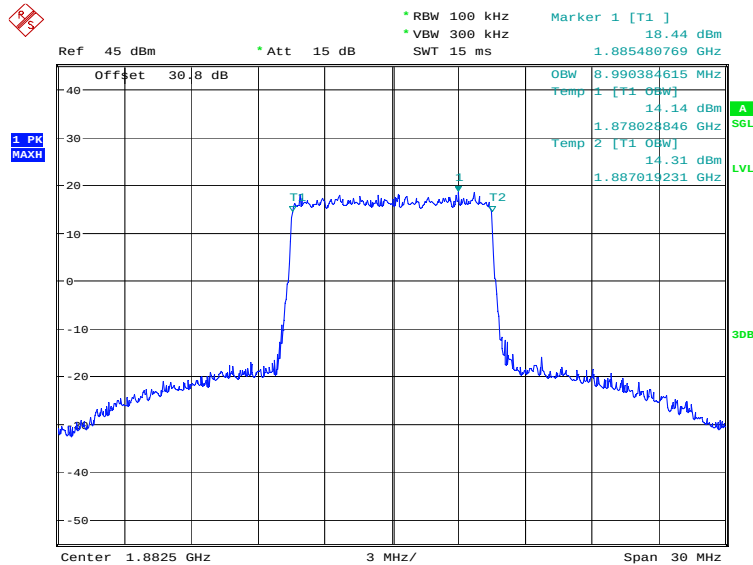


Date: 5.DEC.2023 10:51:00

LTE band 25, 10MHz (99%)

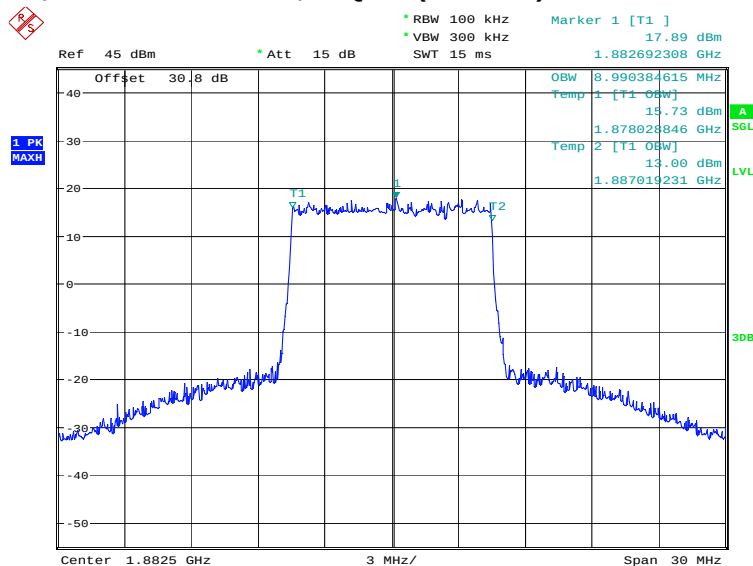
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	8990.38	8990.38

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



Date: 5.DEC.2023 10:51:42

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

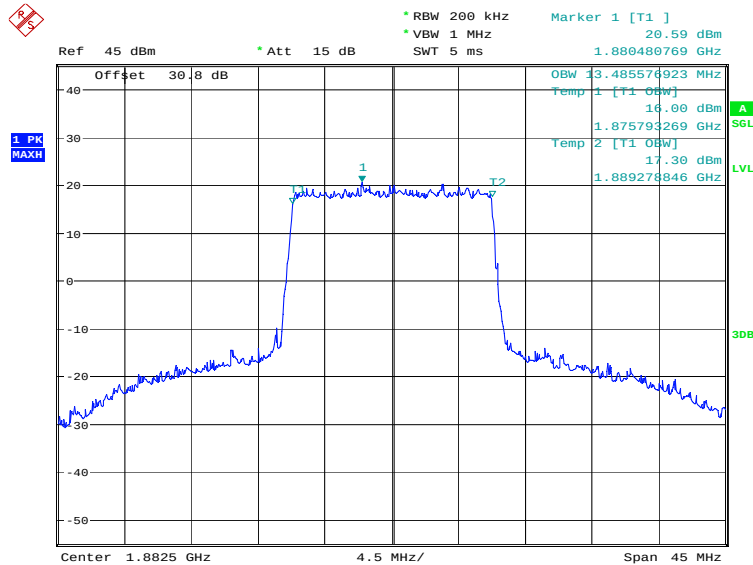


Date: 5.DEC.2023 10:52:21

LTE band 25, 15MHz (99%)

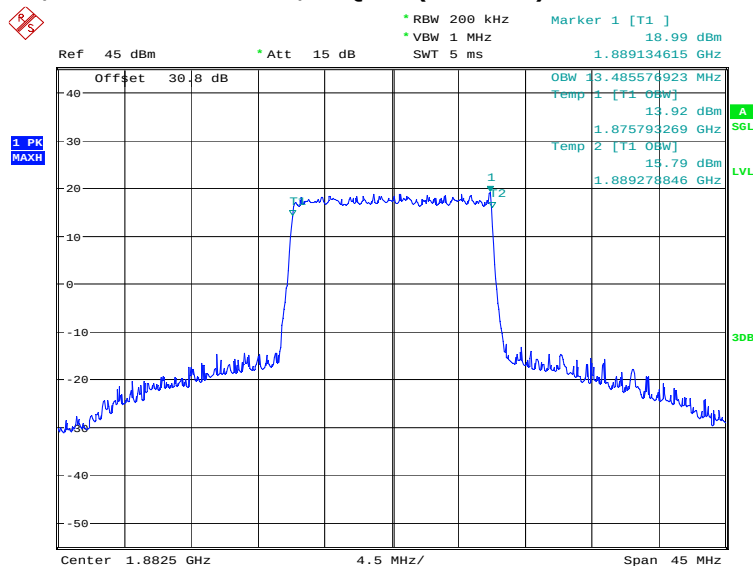
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 5.DEC.2023 10:53:03

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

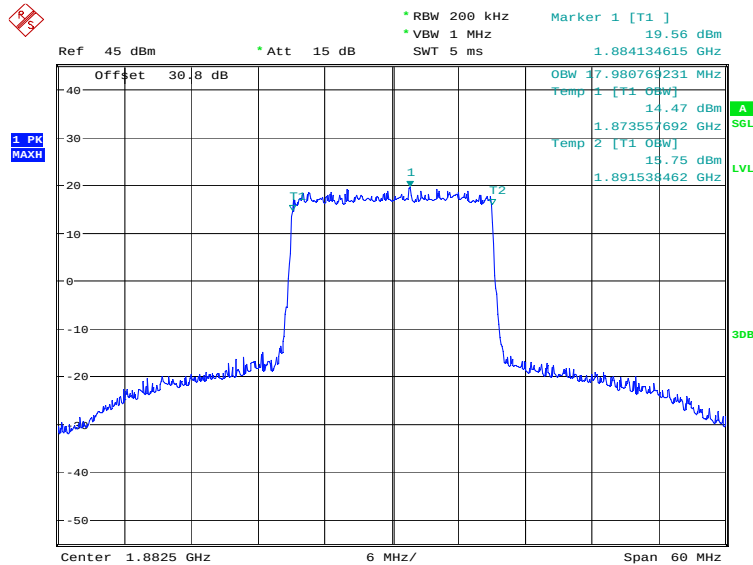


Date: 5.DEC.2023 10:53:43

LTE band 25, 20MHz (99%)

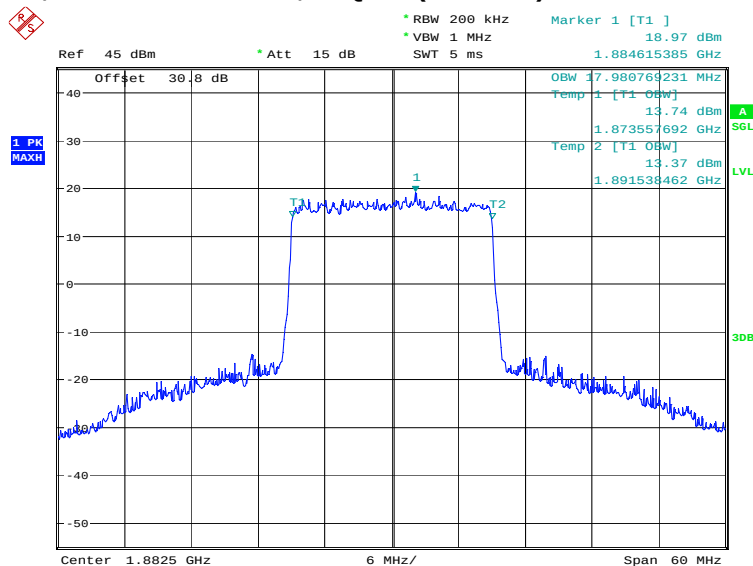
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	17980.77	17980.77

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



Date: 5.DEC.2023 10:54:25

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

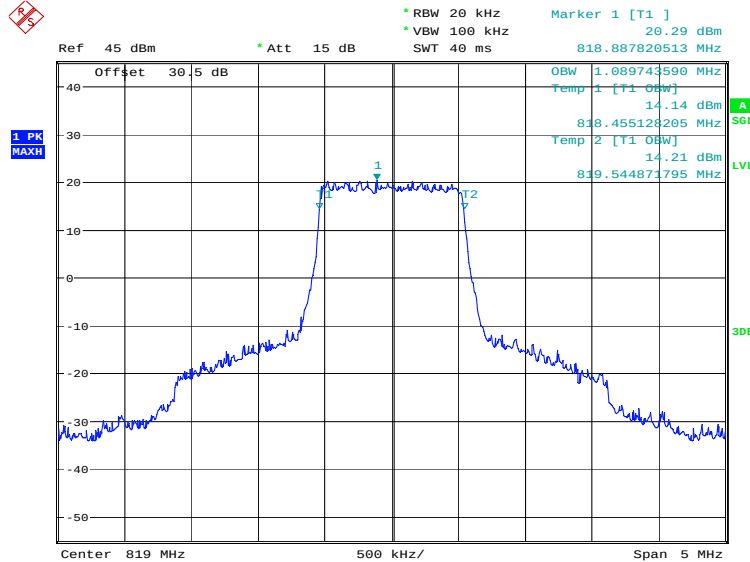


Date: 5.DEC.2023 10:55:05

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

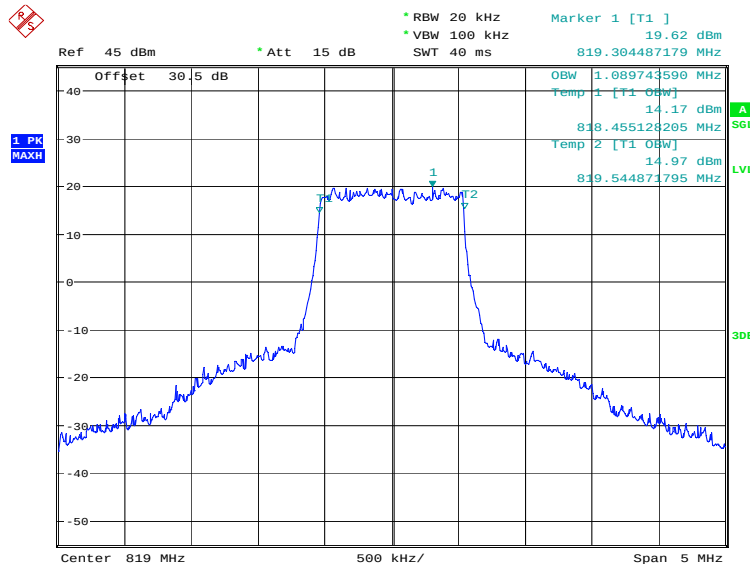
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	1089.74	1089.74

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



Date: 5.DEC.2023 12:43:49

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

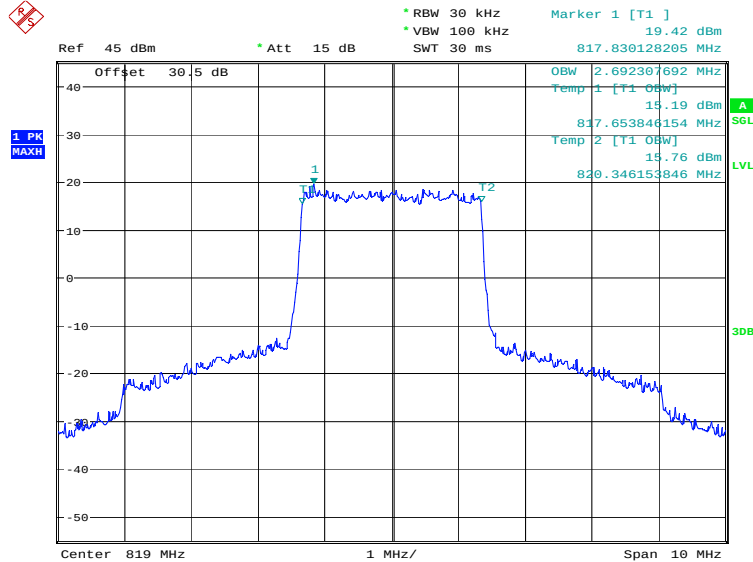


Date: 5.DEC.2023 12:44:29

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

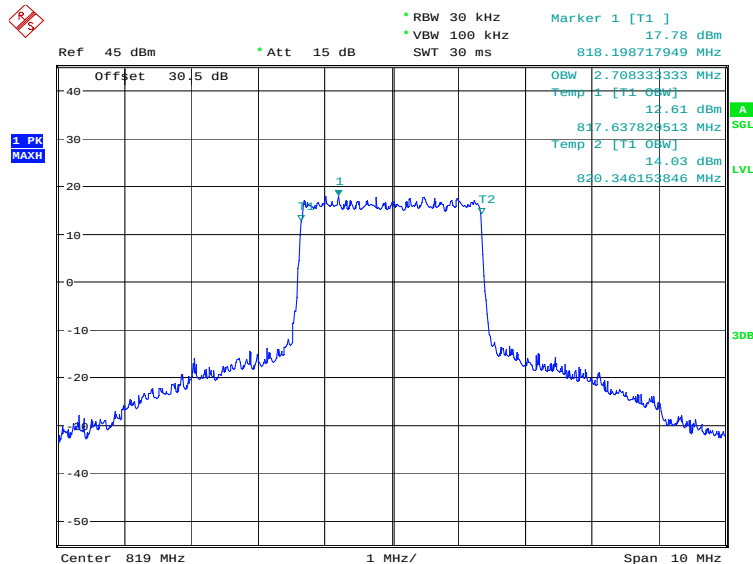
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	2692.31	2708.33

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



Date: 5.DEC.2023 12:45:11

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

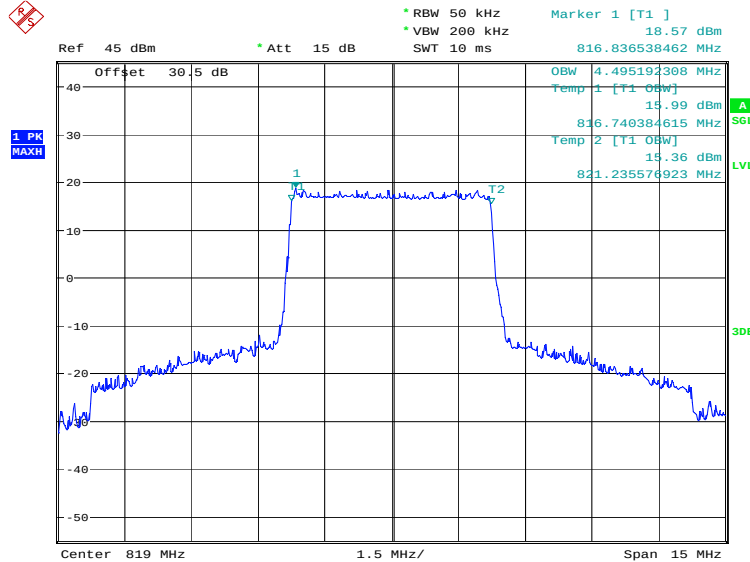


Date: 5.DEC.2023 12:45:51

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

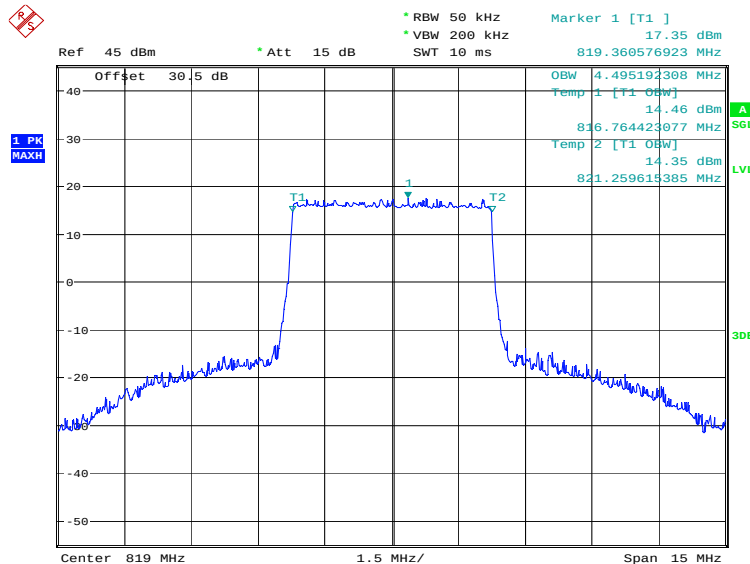
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 5.DEC.2023 12:46:33

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

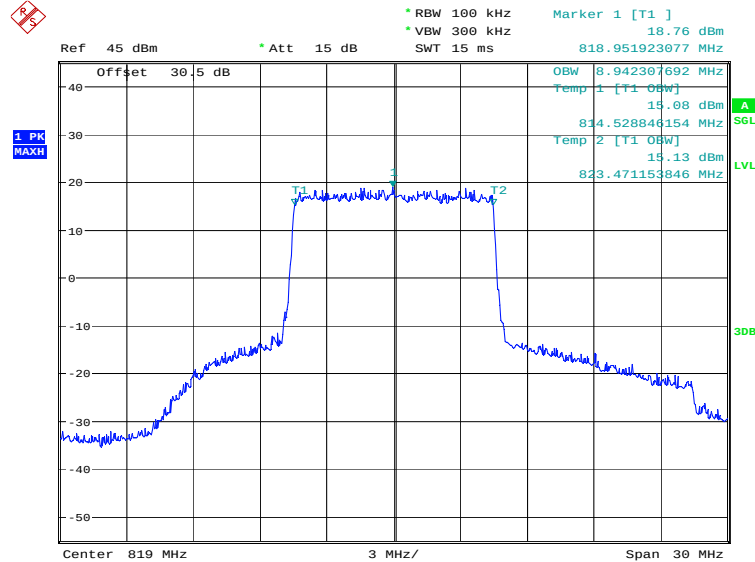


Date: 5.DEC.2023 12:47:13

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

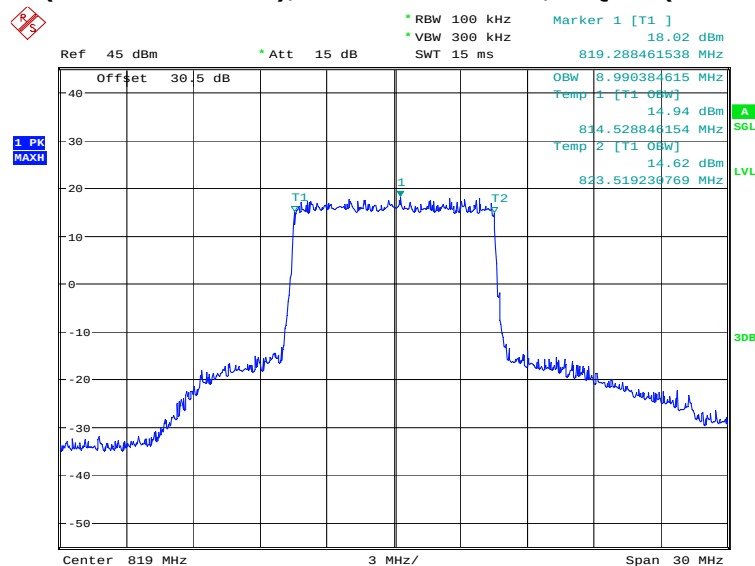
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	8942.31	8990.38

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



Date: 5.DEC.2023 12:47:55

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

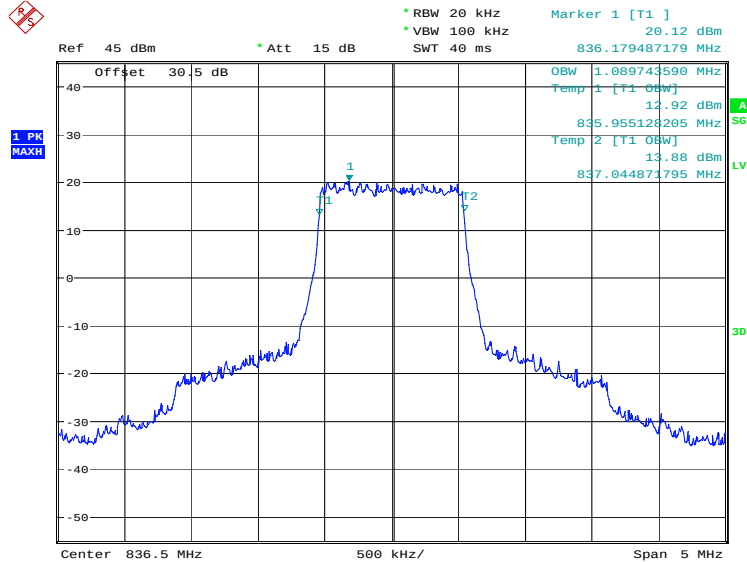


Date: 5.DEC.2023 12:48:35

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

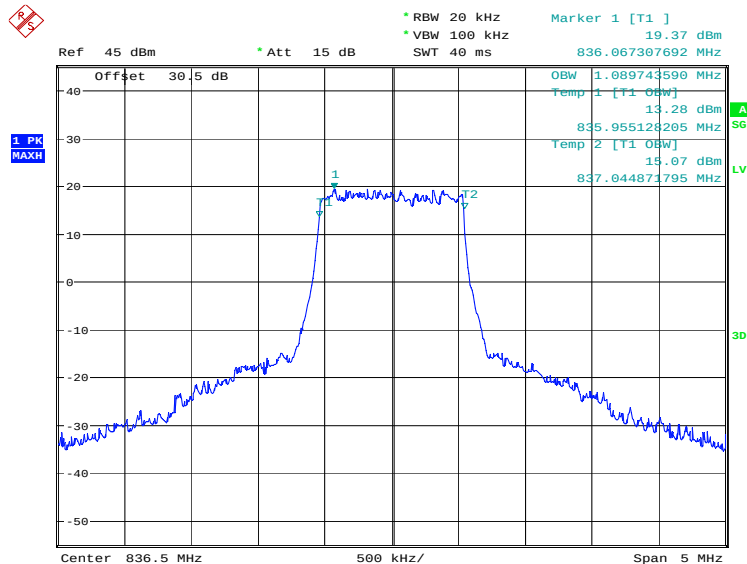
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1089.74	1089.74

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



Date: 5.DEC.2023 12:36:19

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

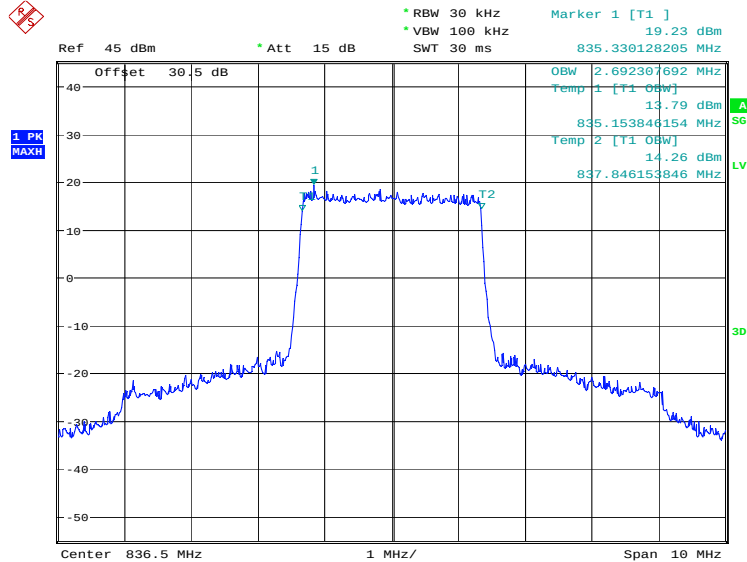


Date: 5.DEC.2023 12:36:59

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

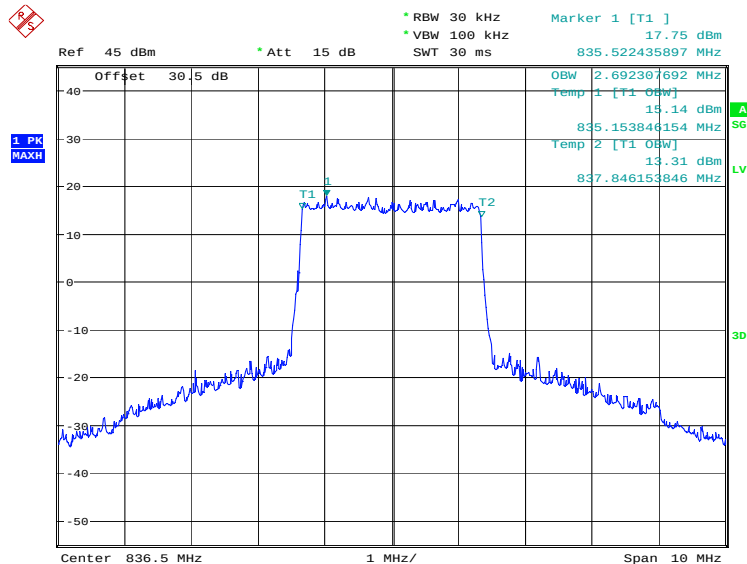
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 5.DEC.2023 12:37:41

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

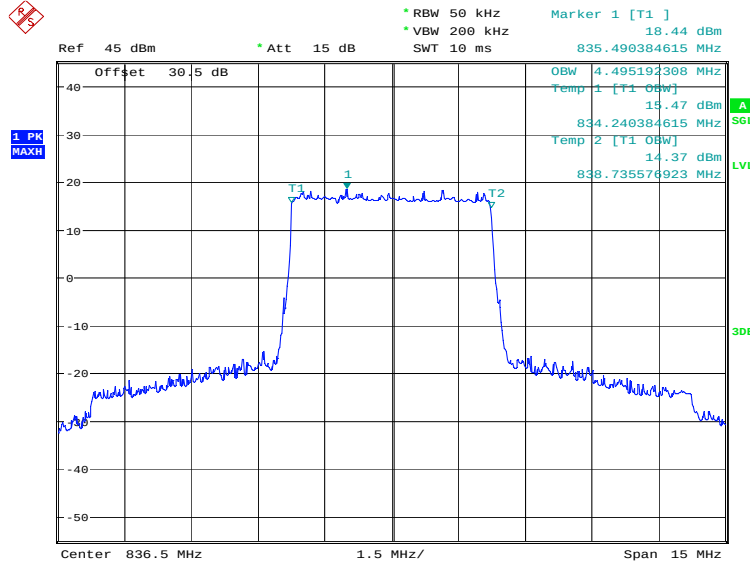


Date: 5.DEC.2023 12:38:20

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

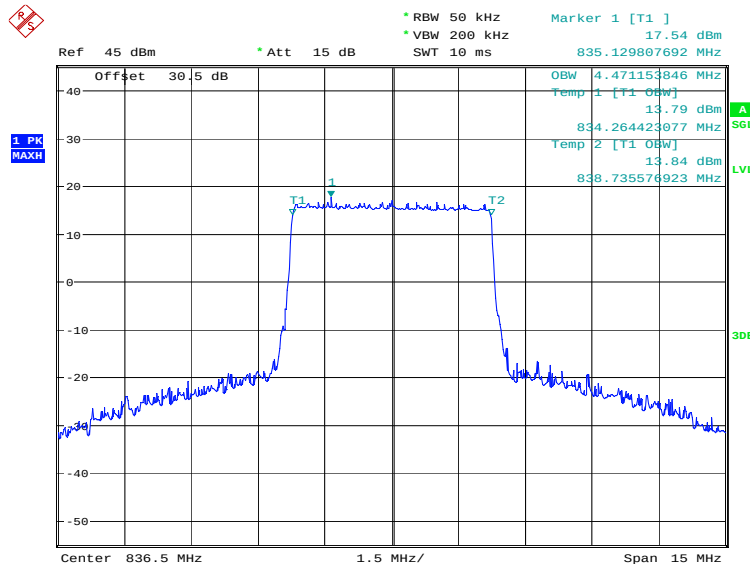
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	4495.19	4471.15

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



Date: 5.DEC.2023 12:39:02

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

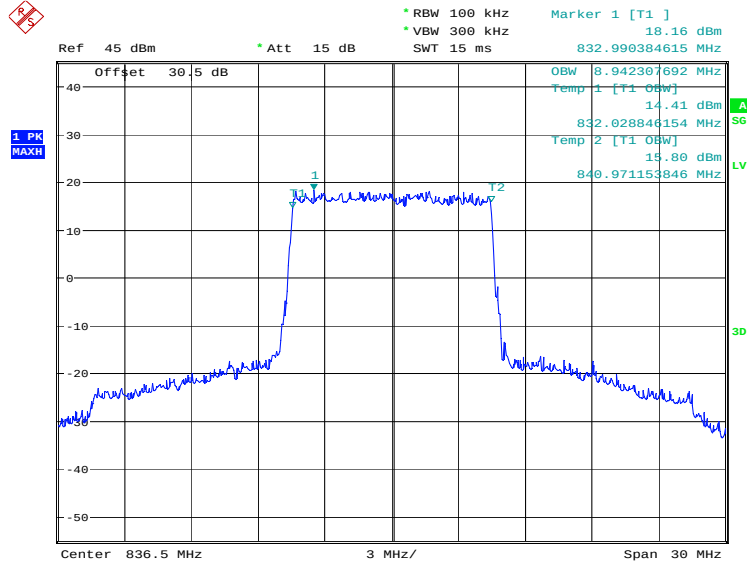


Date: 5.DEC.2023 12:39:42

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

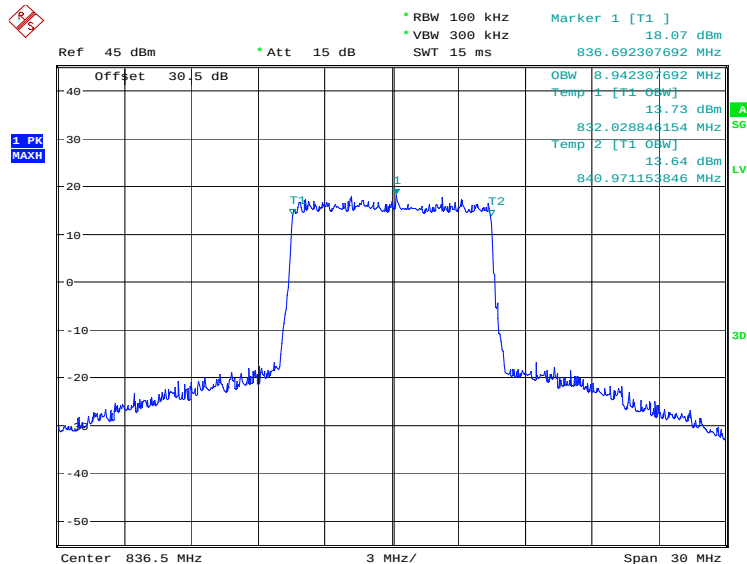
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8942.31	8942.31

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



Date: 5.DEC.2023 12:40:24

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

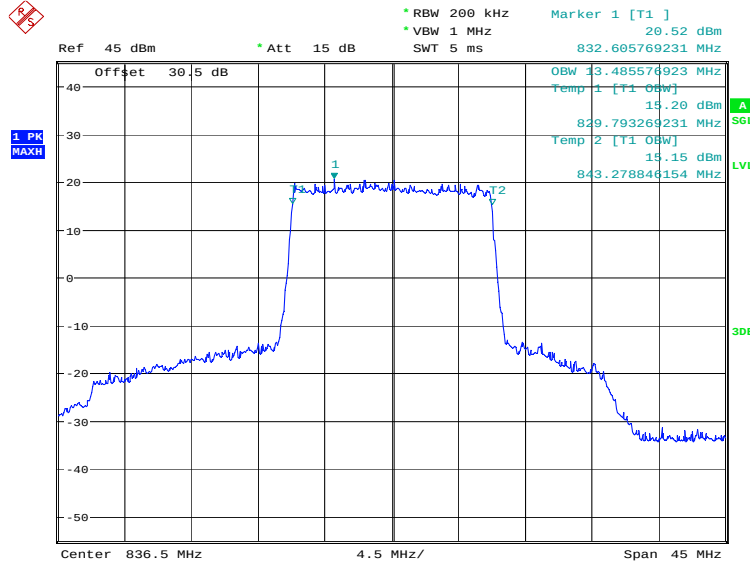


Date: 5.DEC.2023 12:41:04

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

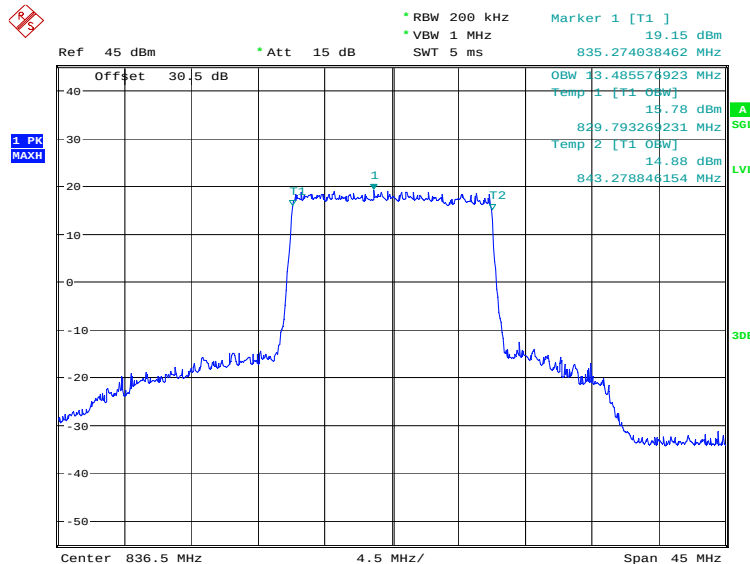
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 5.DEC.2023 12:41:47

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

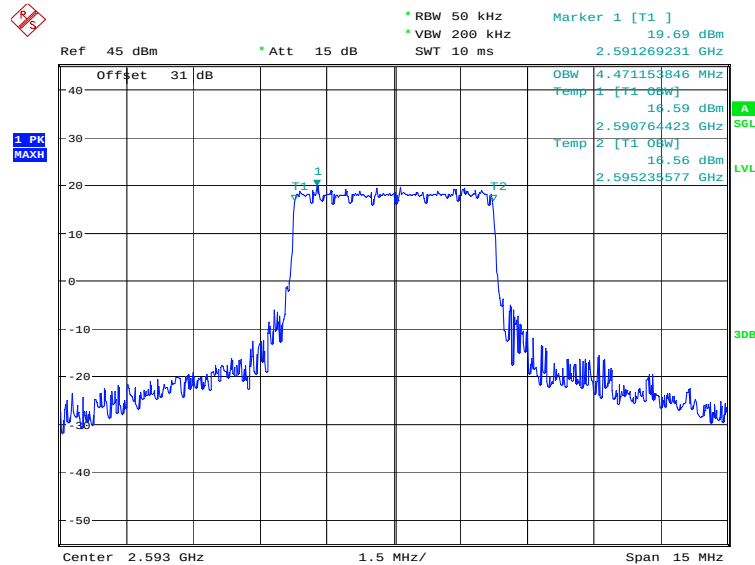


Date: 5.DEC.2023 12:42:27

LTE band 41, 5MHz (99%)

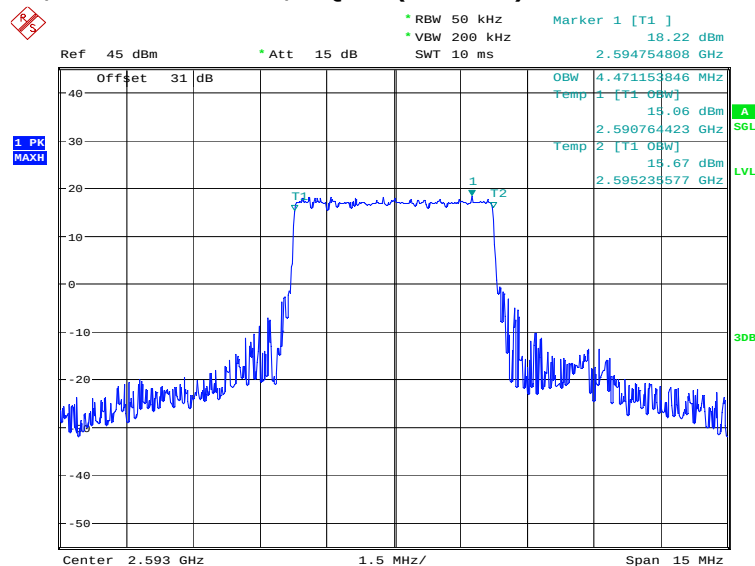
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	4471.15	4471.15

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



Date: 5.DEC.2023 13:31:31

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

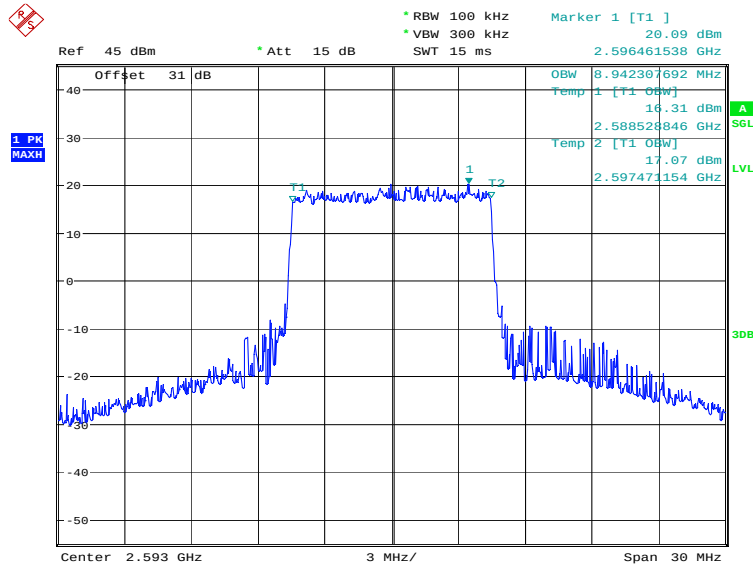


Date: 5.DEC.2023 13:32:11

LTE band 41, 10MHz (99%)

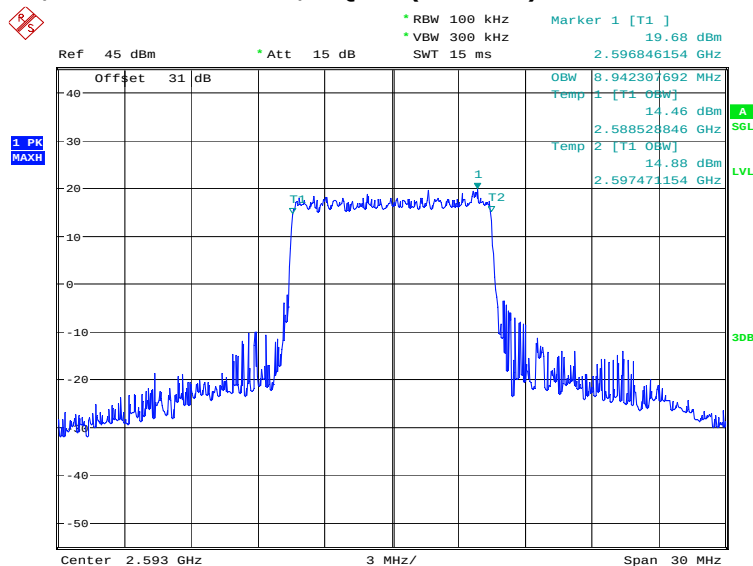
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 5.DEC.2023 13:32:53

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

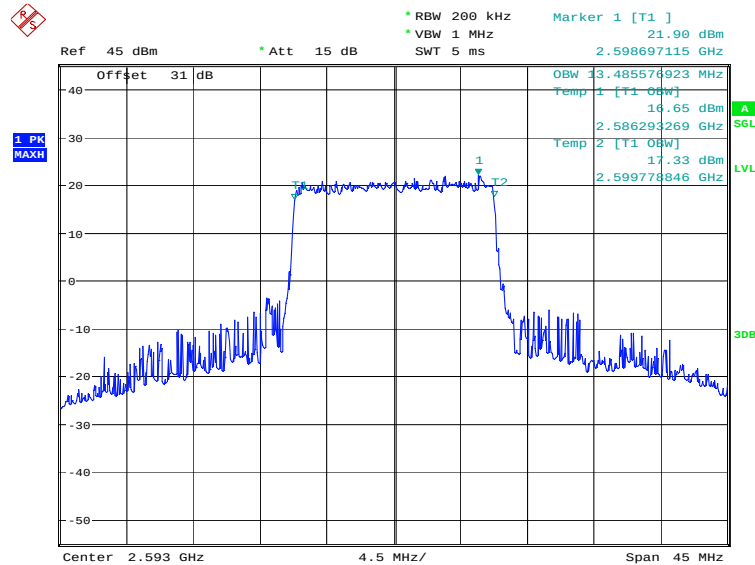


Date: 5.DEC.2023 13:33:33

LTE band 41, 15MHz (99%)

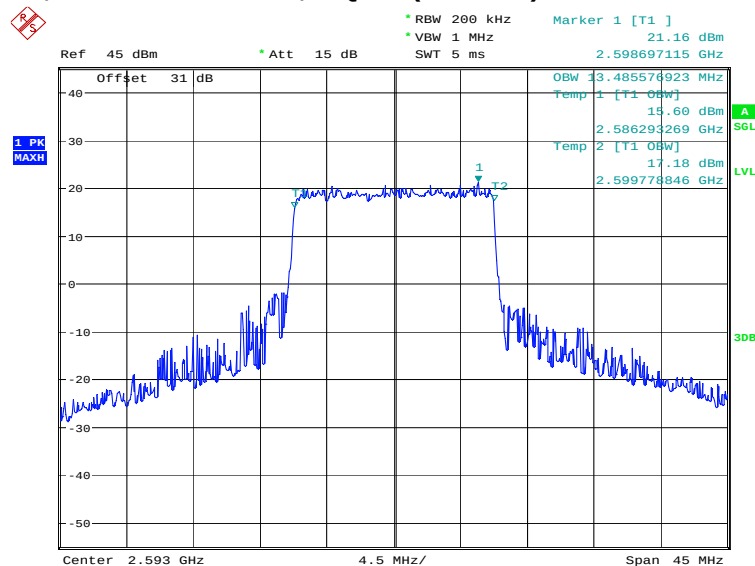
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 5.DEC.2023 13:34:15

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

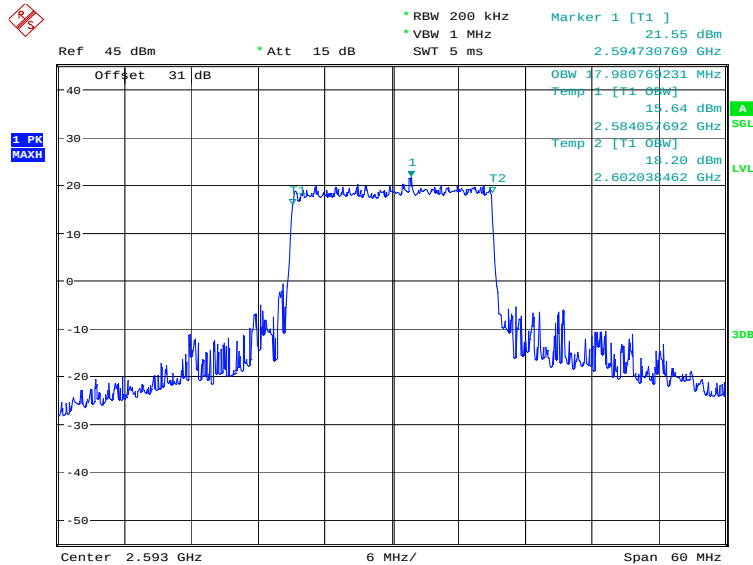


Date: 5.DEC.2023 13:34:55

LTE band 41, 20MHz (99%)

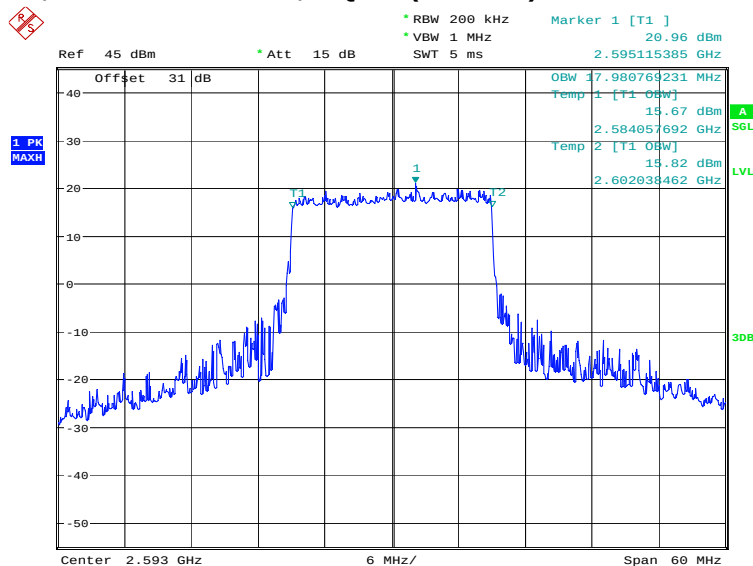
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	17980.77	17980.77

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



Date: 5.DEC.2023 13:35:37

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

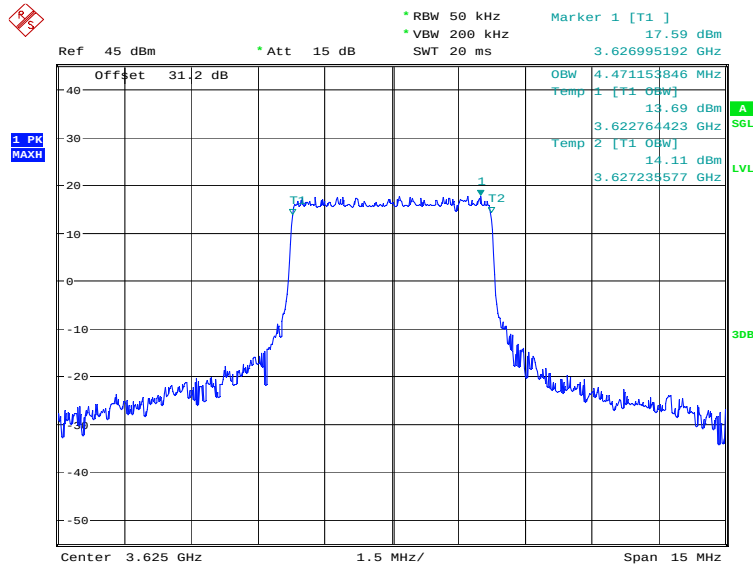


Date: 5.DEC.2023 13:36:17

LTE band 48, 5MHz (99%)

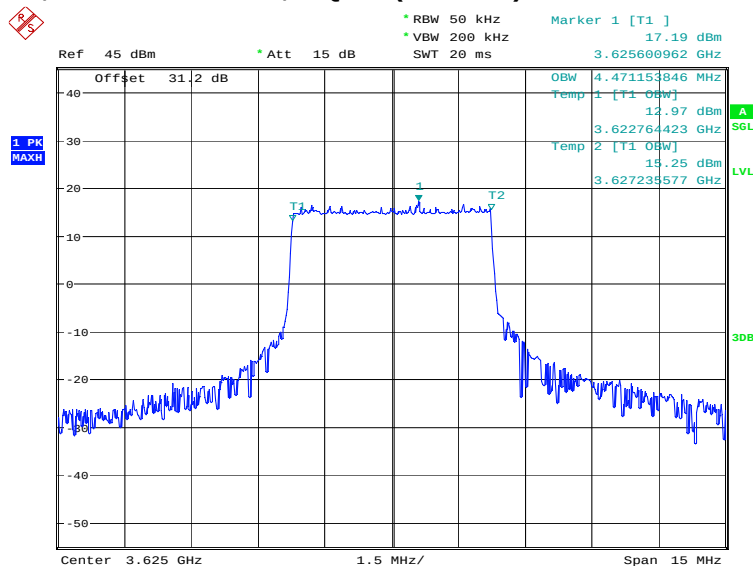
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
3625.0	QPSK	16QAM
	4471.15	4471.15

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



Date: 5.DEC.2023 11:04:43

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

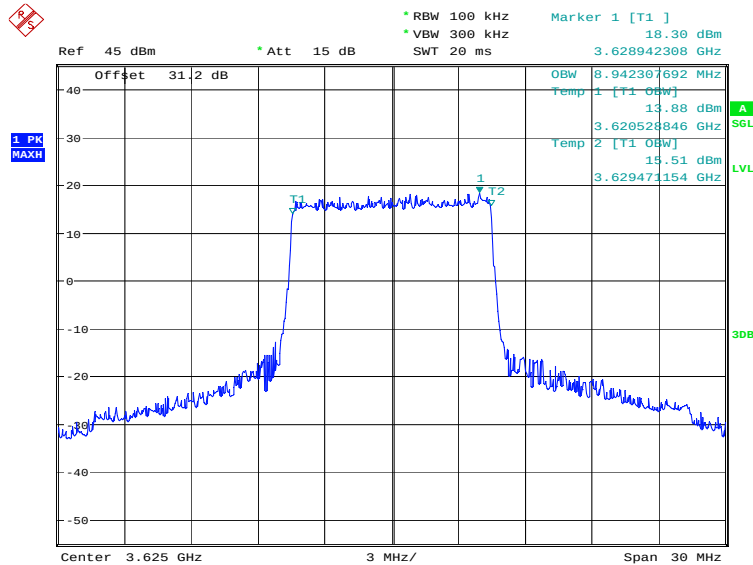


Date: 5.DEC.2023 11:05:23

LTE band 48, 10MHz (99%)

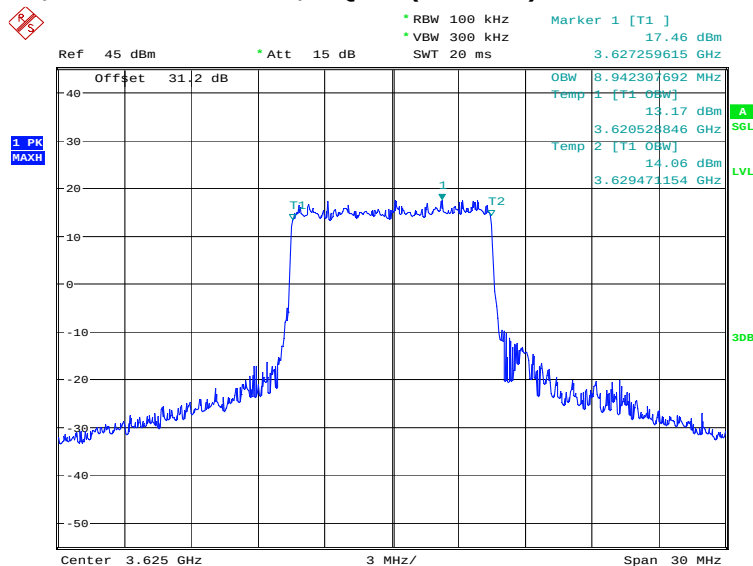
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
3625.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 5.DEC.2023 11:06:05

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

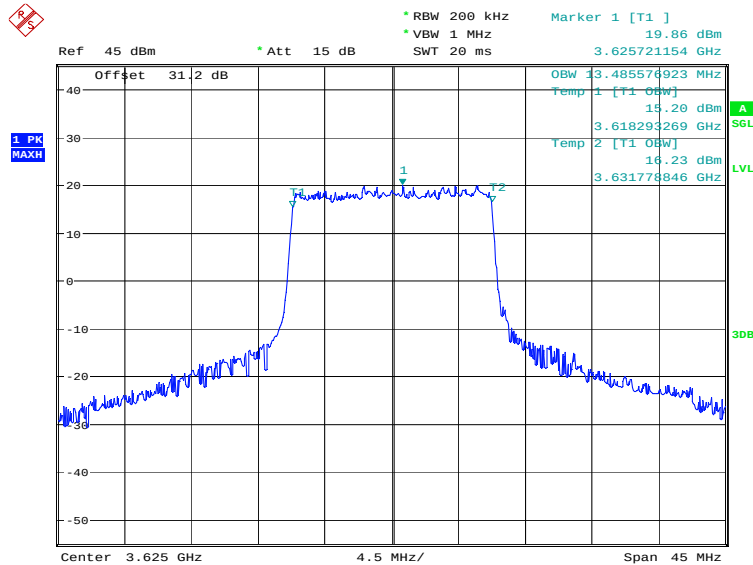


Date: 5.DEC.2023 11:06:45

LTE band 48, 15MHz (99%)

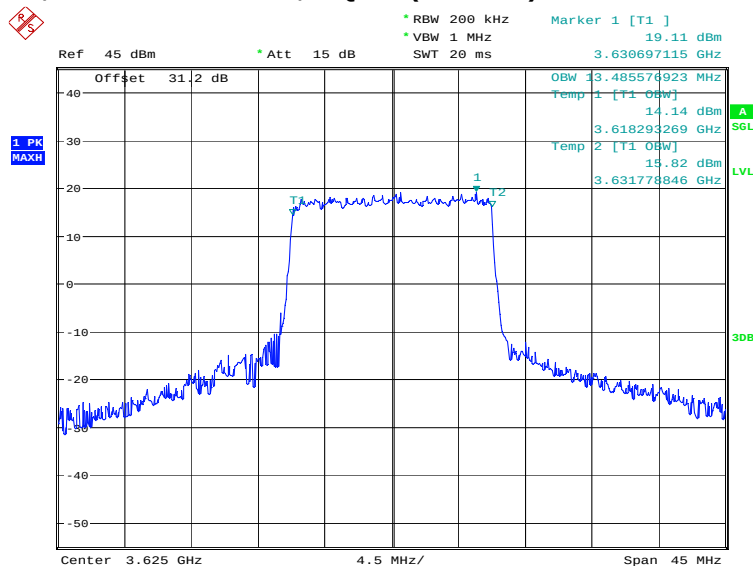
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
3625.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 5.DEC.2023 11:07:27

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

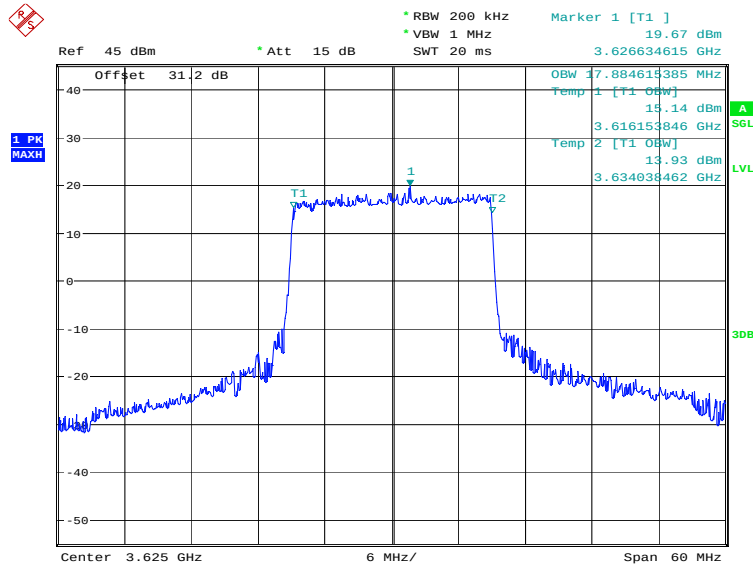


Date: 5.DEC.2023 11:08:07

LTE band 48, 20MHz (99%)

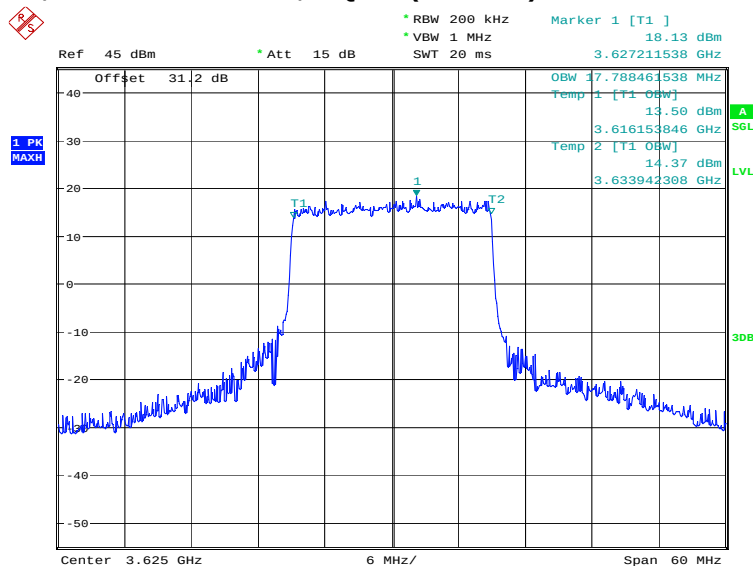
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
3625.0	QPSK	16QAM
	17884.62	17788.46

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



Date: 5.DEC.2023 11:08:49

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

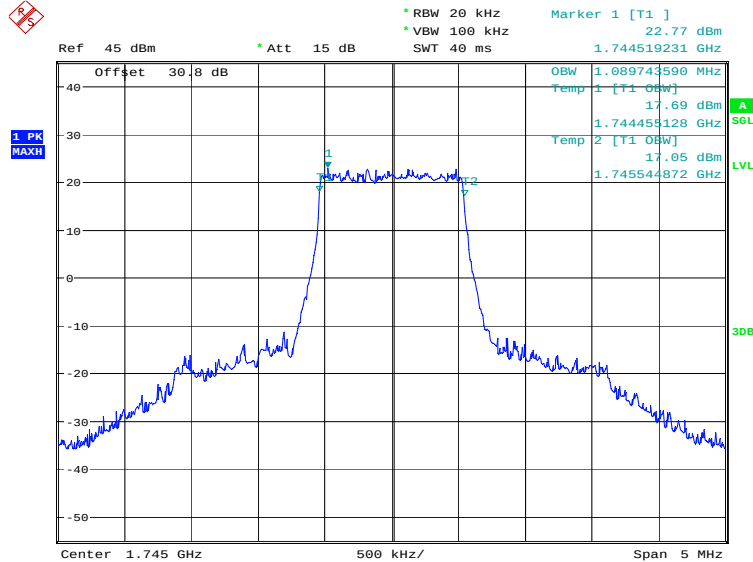


Date: 5.DEC.2023 11:09:29

LTE band 66, 1.4MHz (99%)

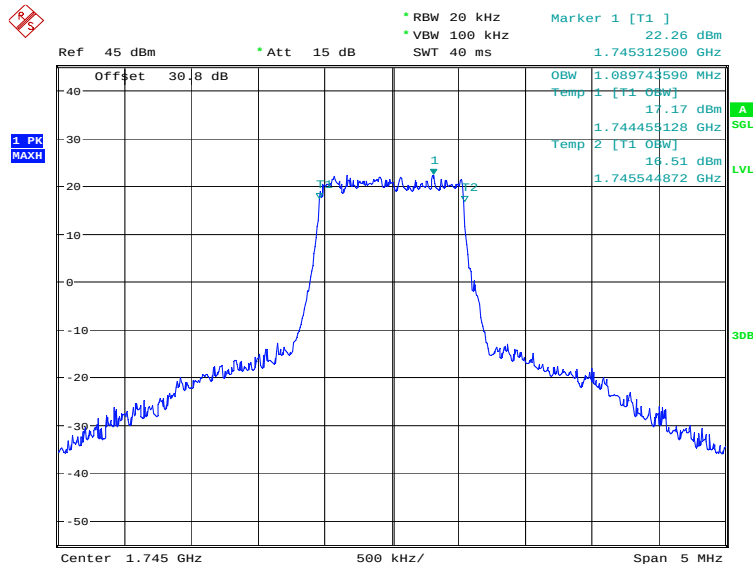
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	1089.74	1089.74

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



Date: 5.DEC.2023 10:55:48

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

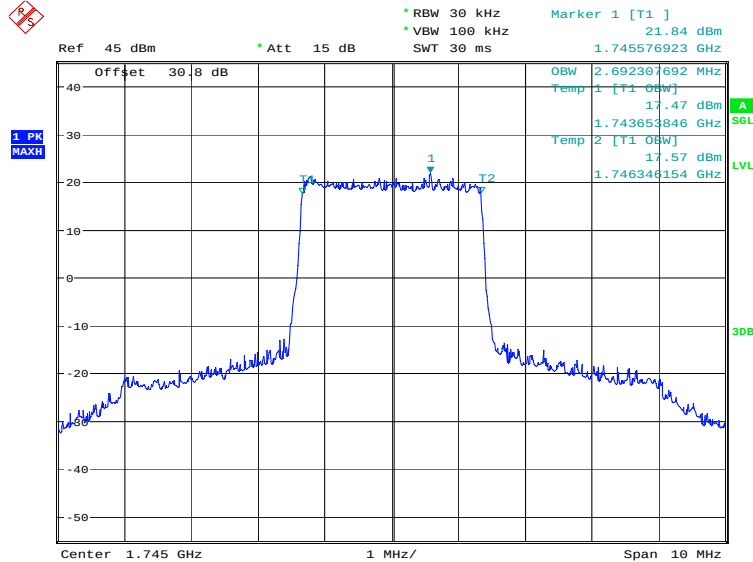


Date: 5.DEC.2023 10:56:28

LTE band 66, 3MHz (99%)

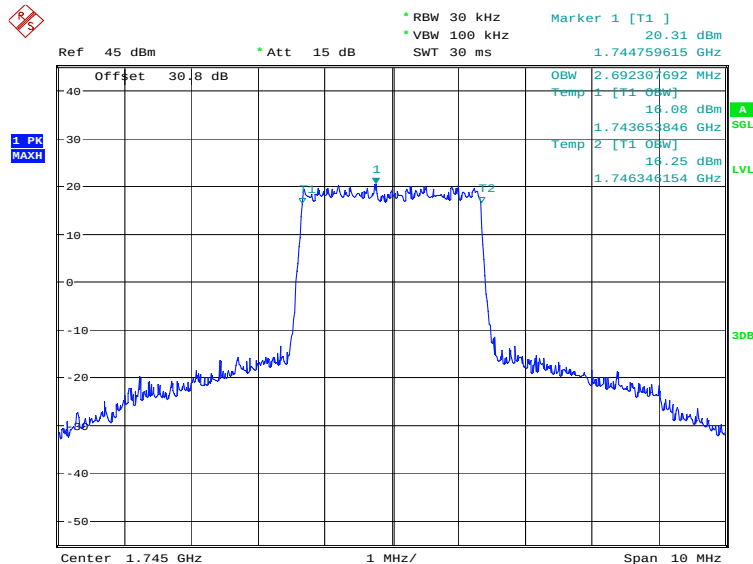
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 5.DEC.2023 10:57:10

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

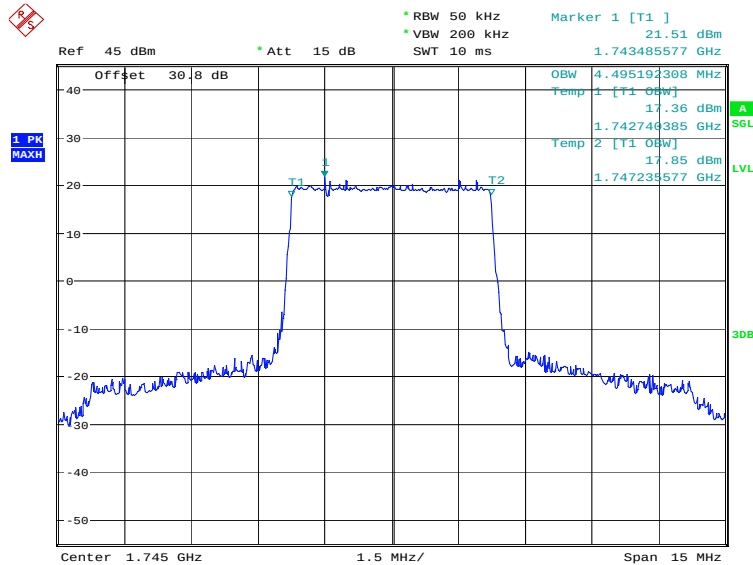


Date: 5.DEC.2023 10:57:49

LTE band 66, 5MHz (99%)

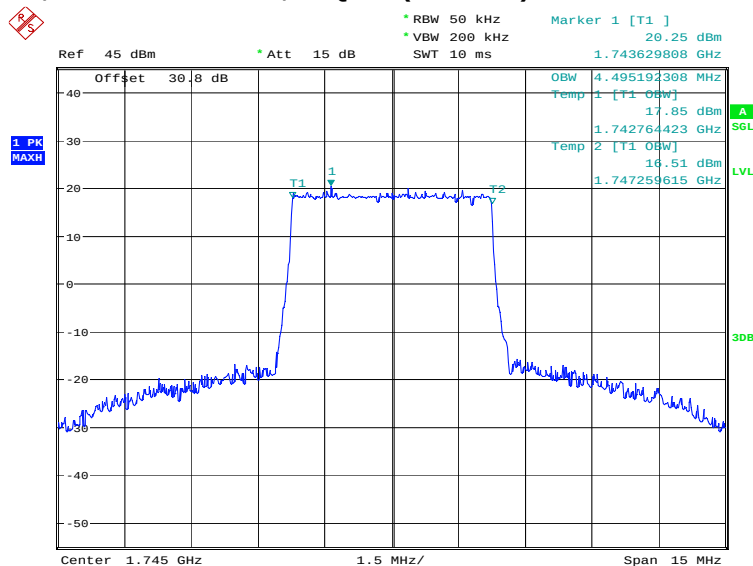
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 5.DEC.2023 10:58:32

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

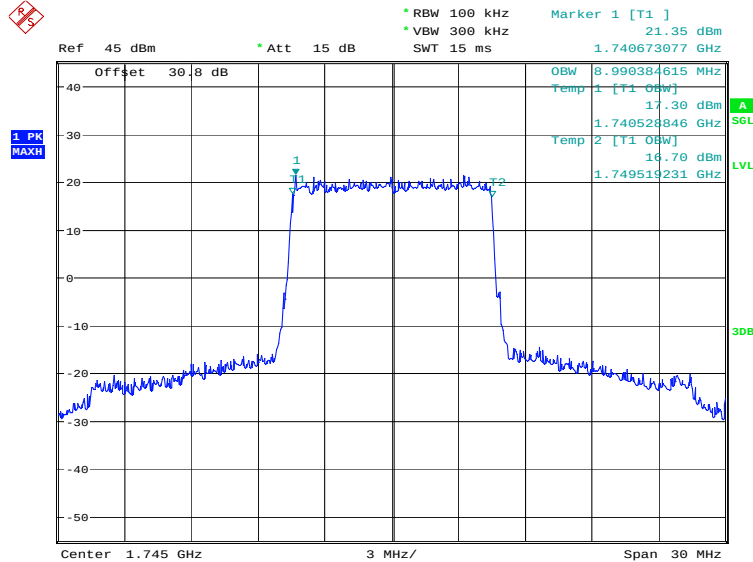


Date: 5.DEC.2023 10:59:11

LTE band 66, 10MHz (99%)

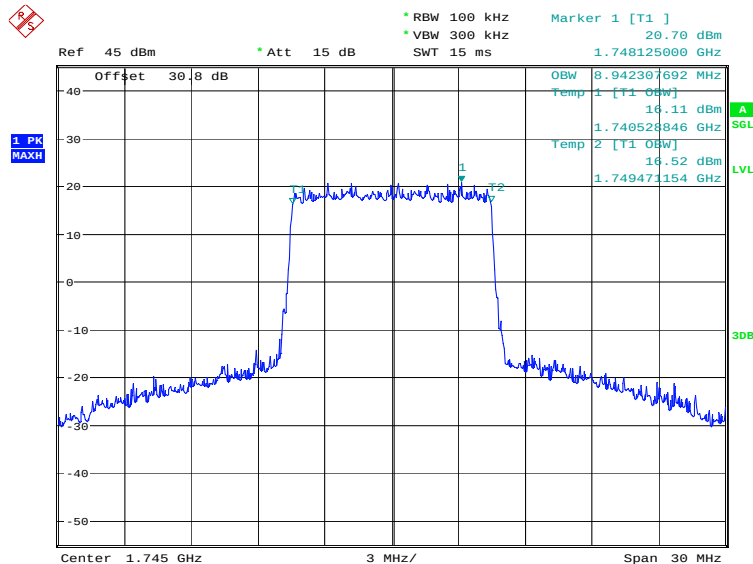
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	8990.38	8942.31

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



Date: 5.DEC.2023 10:59:53

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

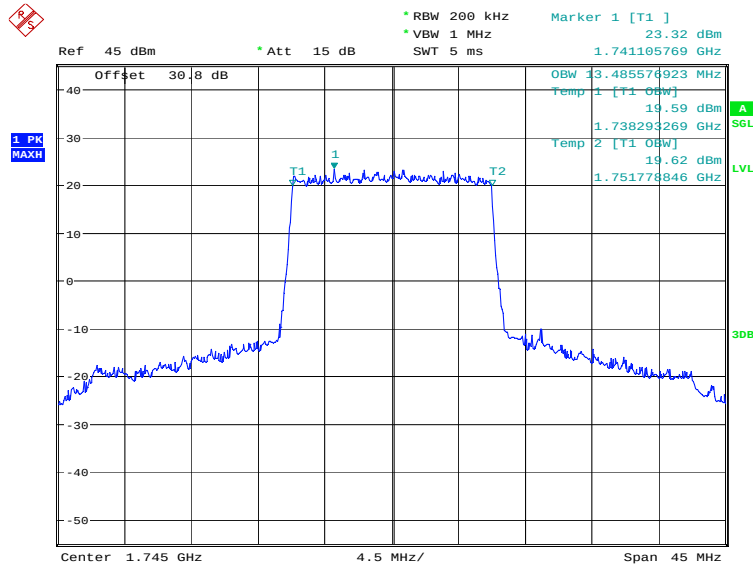


Date: 5.DEC.2023 11:00:33

LTE band 66, 15MHz (99%)

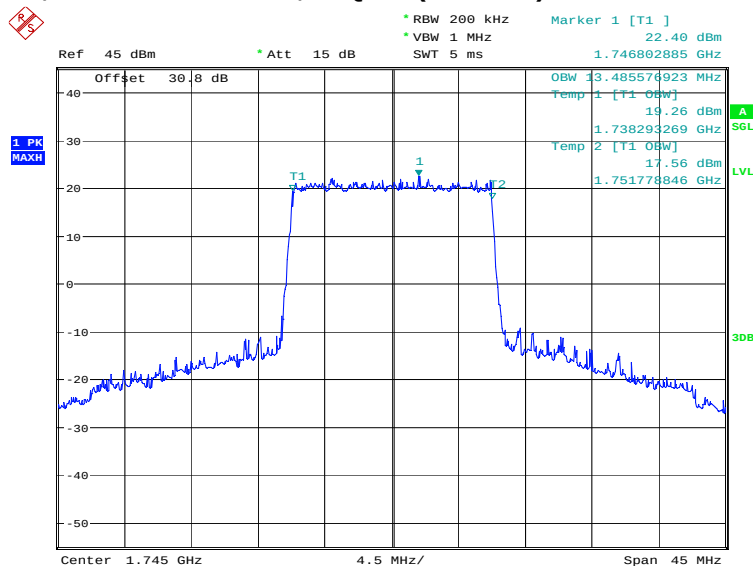
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 5.DEC.2023 11:01:15

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

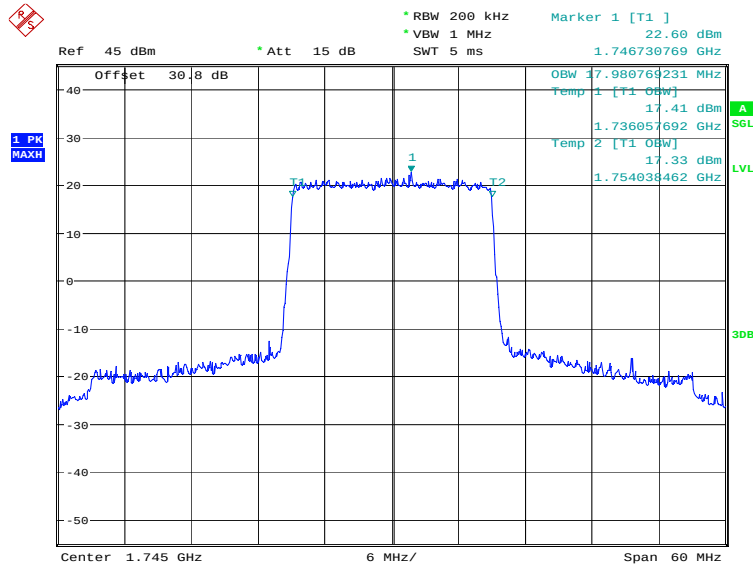


Date: 5.DEC.2023 11:01:55

LTE band 66, 20MHz (99%)

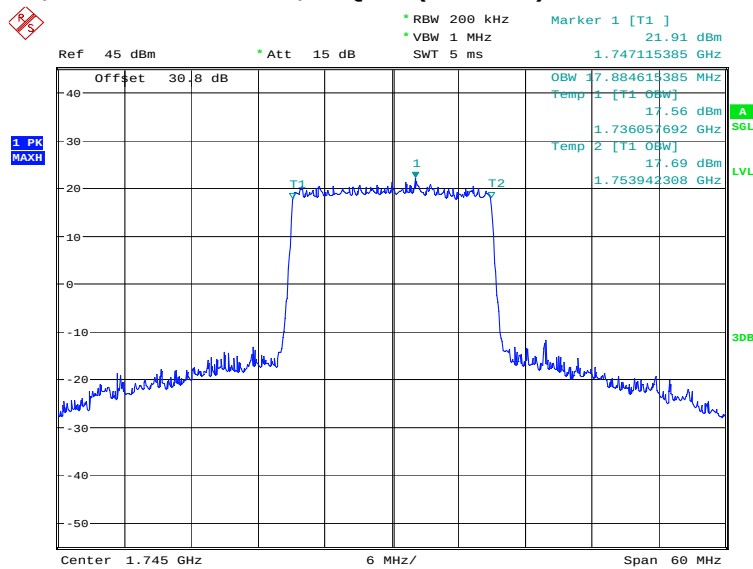
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	17980.77	17884.62

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



Date: 5.DEC.2023 11:02:37

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

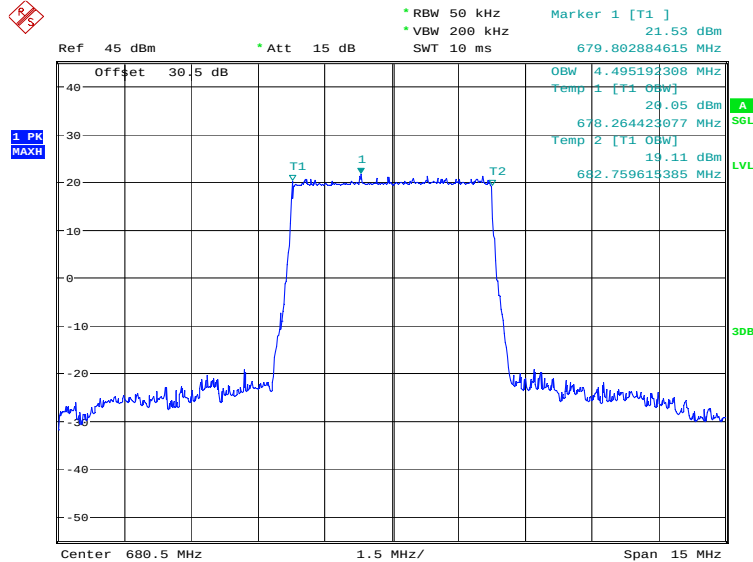


Date: 5.DEC.2023 11:03:16

LTE band 71, 5MHz (99%)

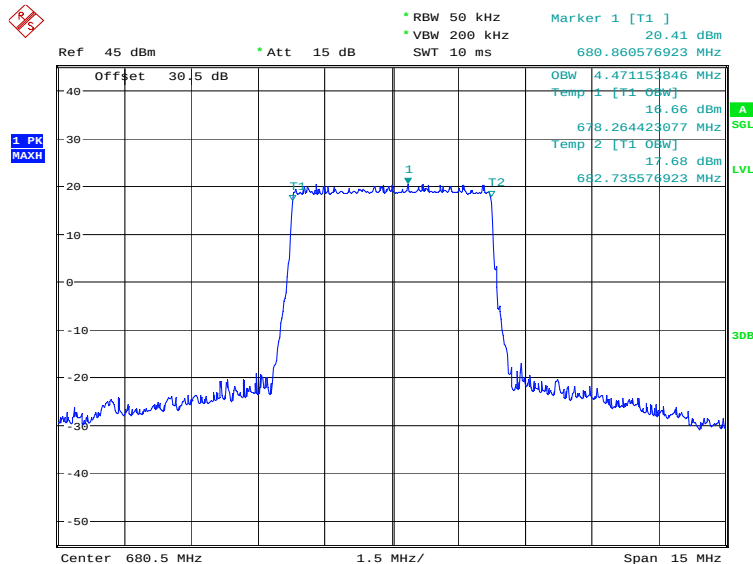
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	4495.19	4471.15

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



Date: 5.DEC.2023 12:21:33

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

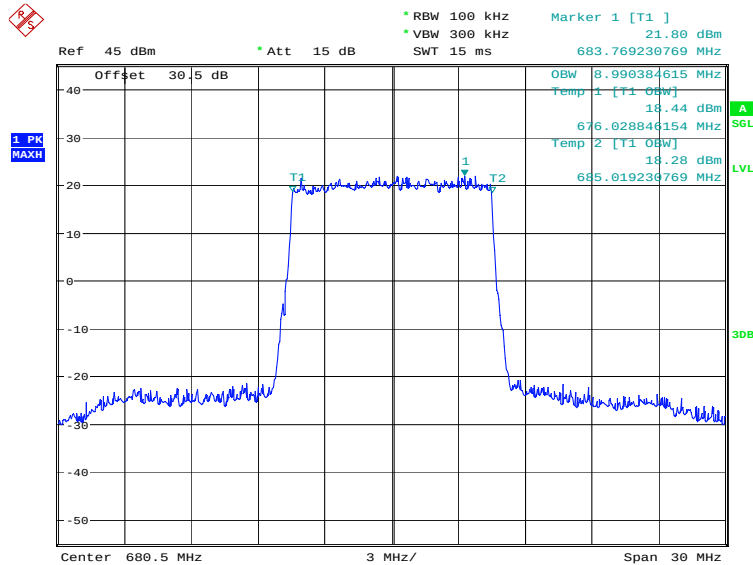


Date: 5.DEC.2023 12:22:12

LTE band 71, 10MHz (99%)

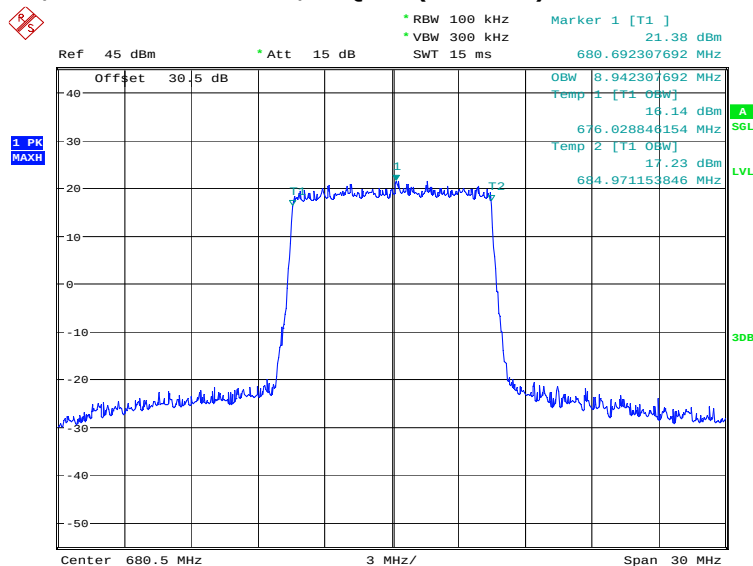
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	8990.38	8942.31

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



Date: 5.DEC.2023 12:22:54

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

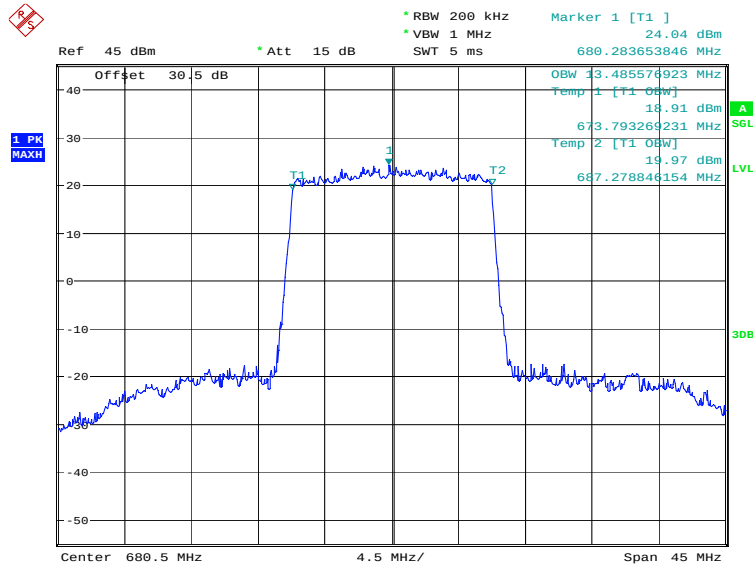


Date: 5.DEC.2023 12:23:34

LTE band 71, 15MHz (99%)

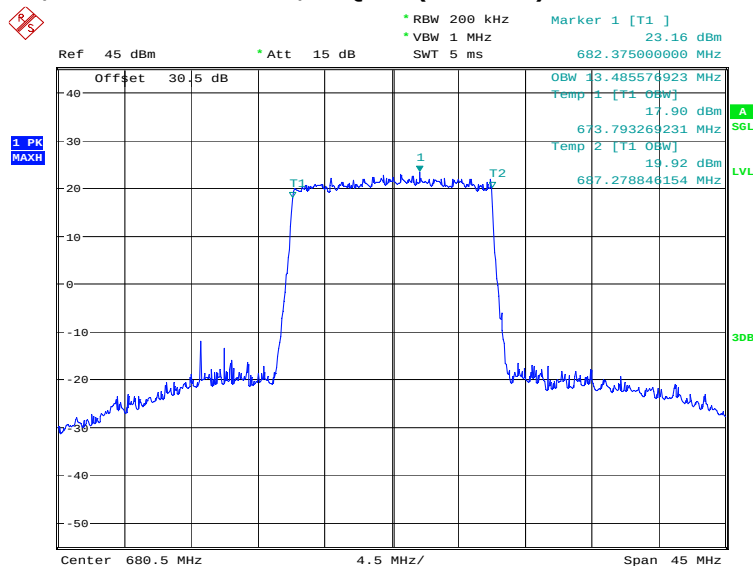
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 5.DEC.2023 12:24:16

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

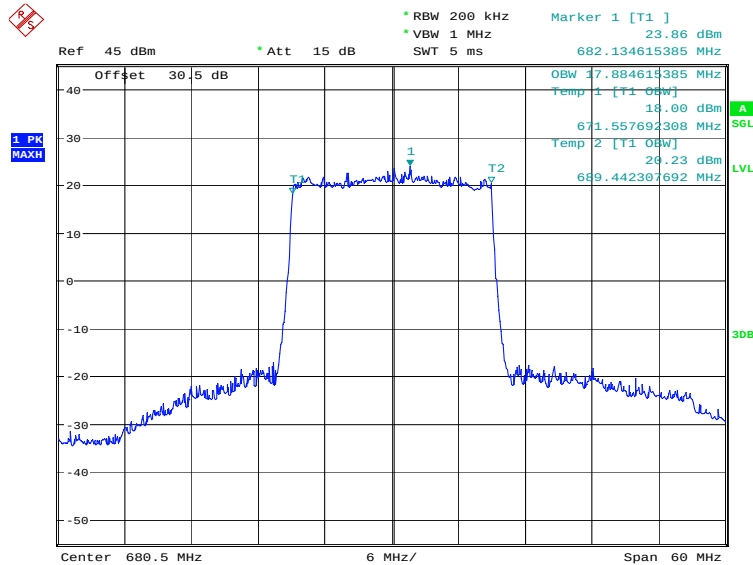


Date: 5.DEC.2023 12:24:55

LTE band 71, 20MHz (99%)

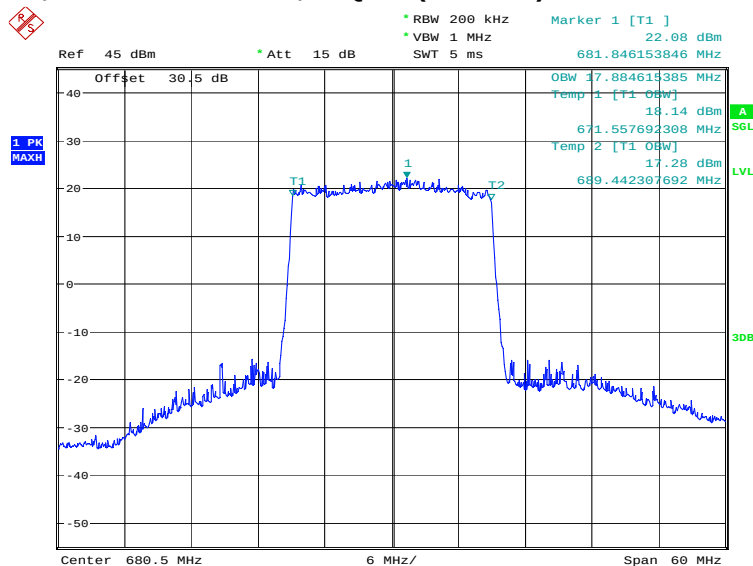
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	17884.62	17884.62

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



Date: 5.DEC.2023 12:25:37

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

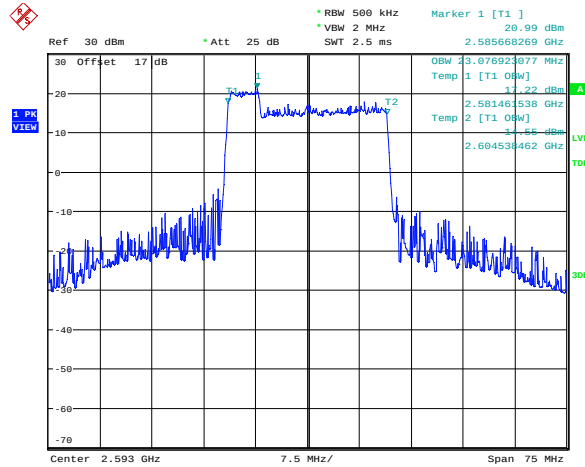


Date: 5.DEC.2023 12:26:17

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

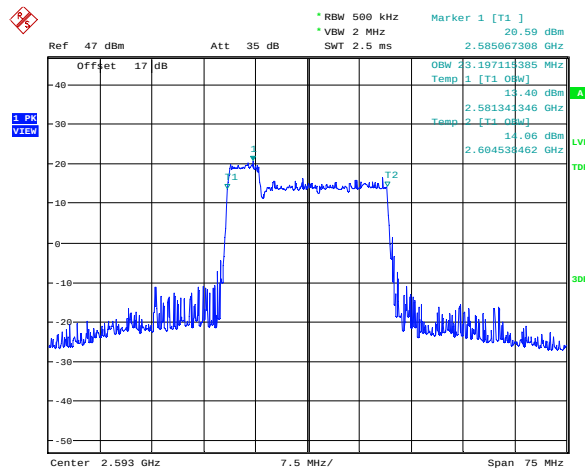
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	23.077	23.197

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



Date: 14.DEC.2023 10:39:53

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

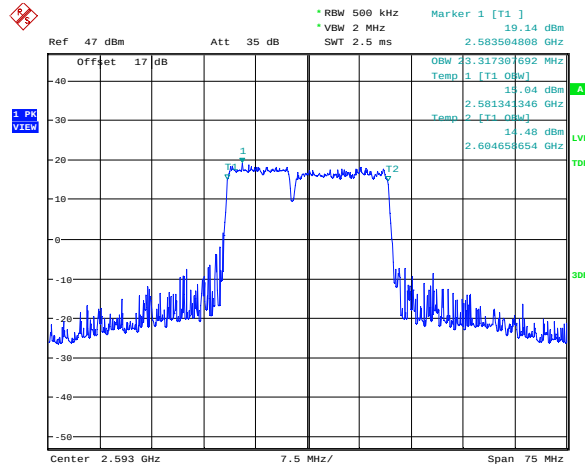


Date: 14.DEC.2023 10:42:25

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

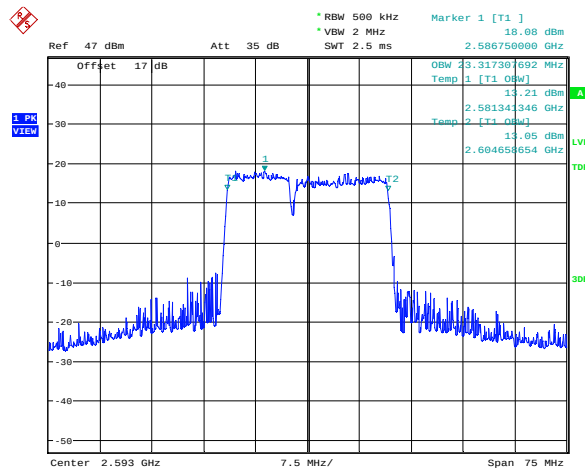
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	23.317	23.317

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



Date: 14.DEC.2023 10:43:20

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

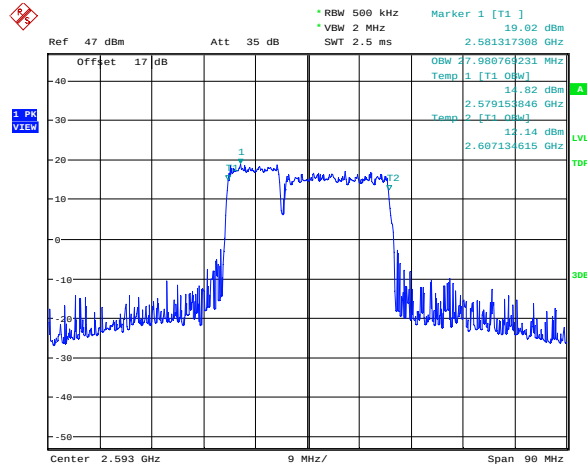


Date: 14.DEC.2023 10:43:43

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

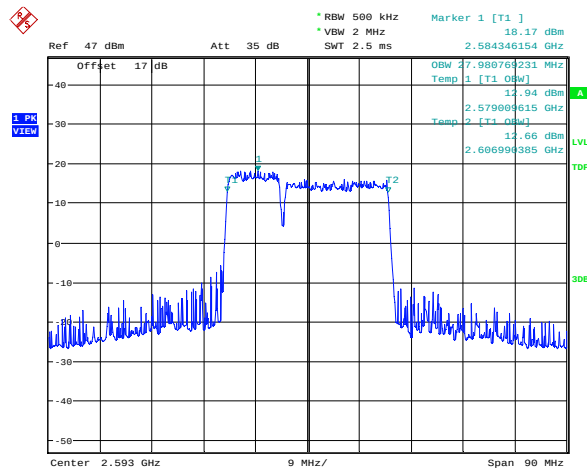
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	27.981	27.981

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



Date: 14.DEC.2023 10:44:38

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

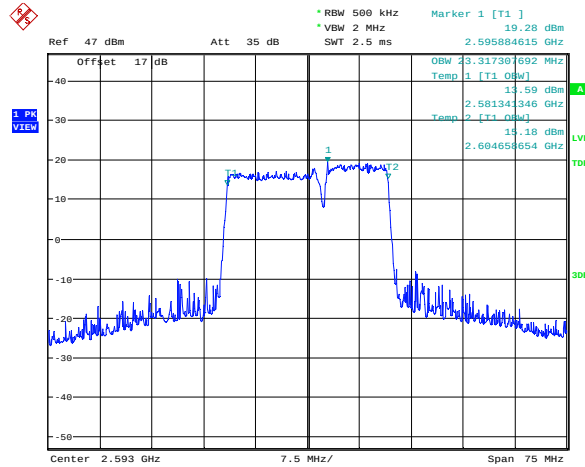


Date: 14.DEC.2023 10:45:01

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

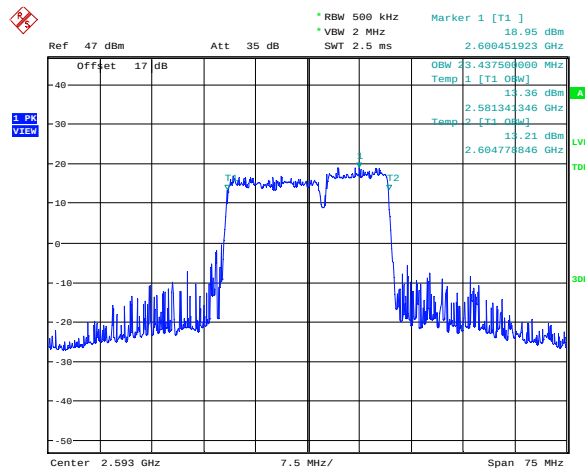
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	23.317	23.438

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



Date: 14.DEC.2023 10:46:02

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

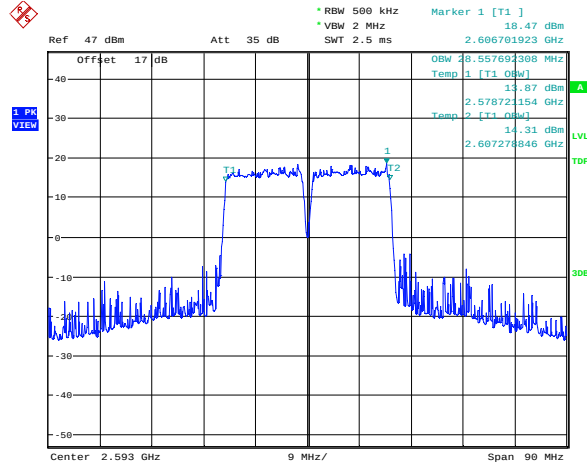


Date: 14.DEC.2023 10:46:26

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

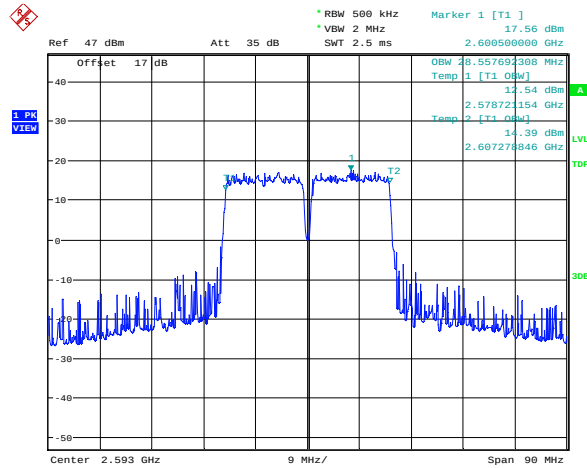
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	28.558	28.558

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



Date: 14.DEC.2023 10:47:20

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

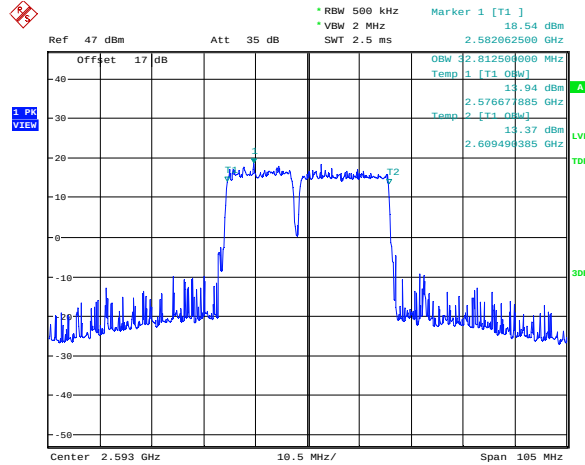


Date: 14.DEC.2023 10:47:43

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

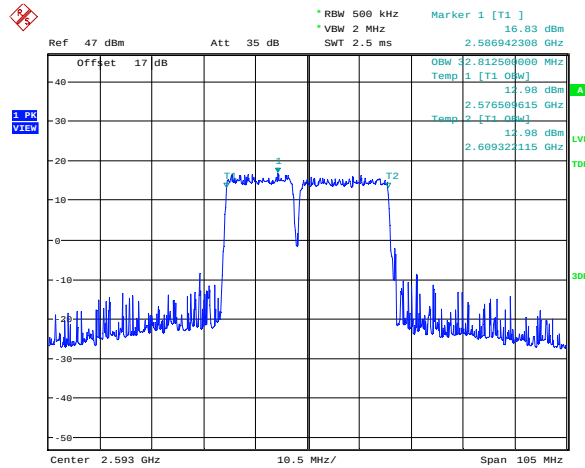
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	32.812	32.812

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



Date: 14.DEC.2023 10:48:41

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

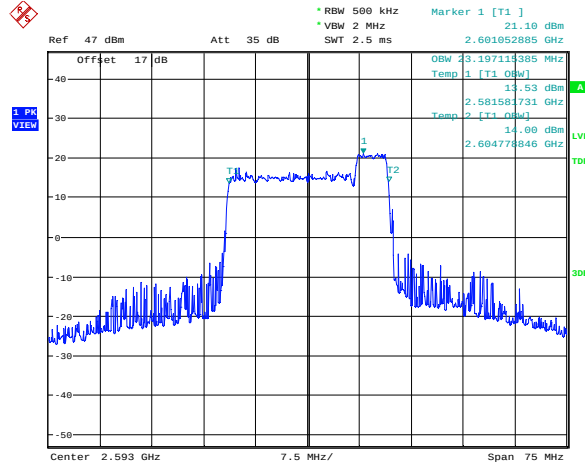


Date: 14.DEC.2023 10:49:04

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

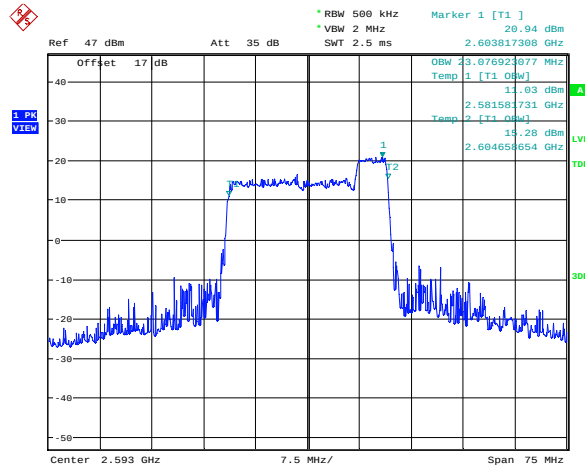
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	23.197	23.077

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



Date: 14.DEC.2023 10:50:11

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

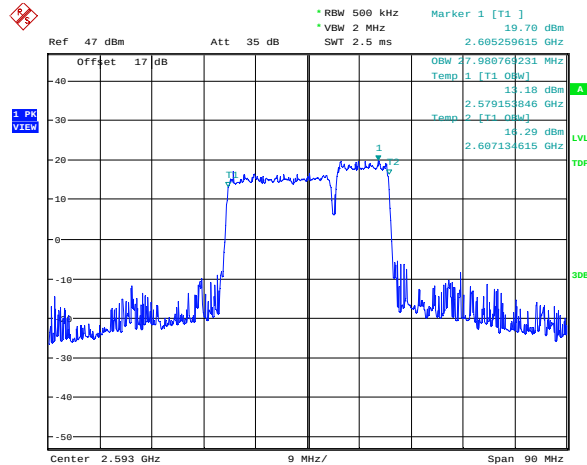


Date: 14.DEC.2023 10:50:32

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

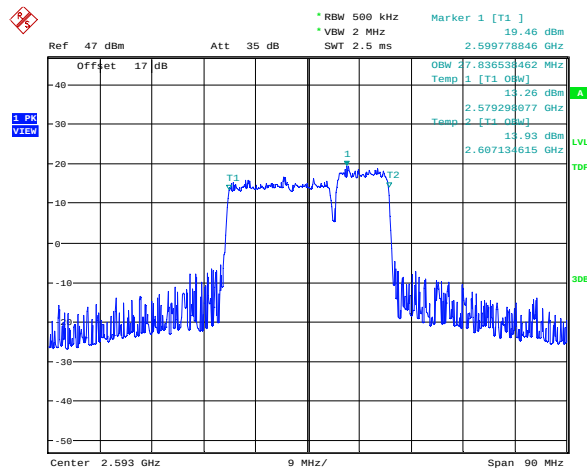
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	27.981	27.837

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



Date: 14.DEC.2023 10:51:24

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

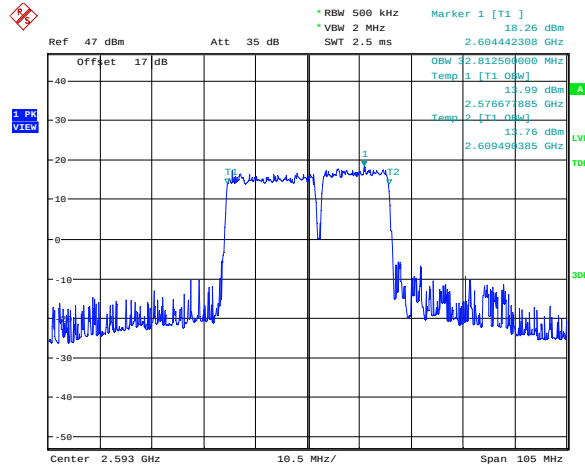


Date: 14.DEC.2023 10:51:45

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

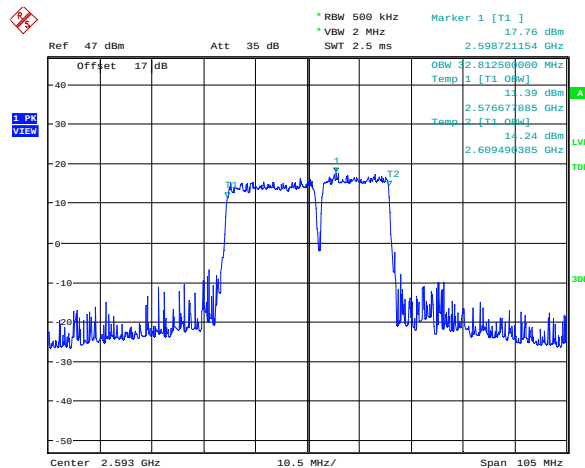
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	32.812	32.812

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



Date: 14.DEC.2023 10:52:37

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

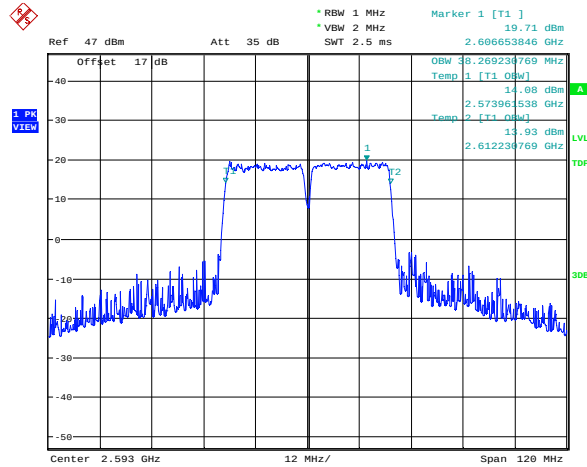


Date: 14.DEC.2023 10:52:58

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

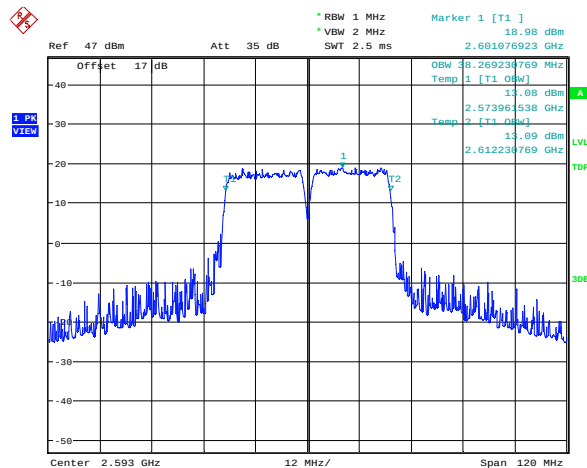
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	38.269	38.269

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



Date: 14.DEC.2023 10:53:51

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

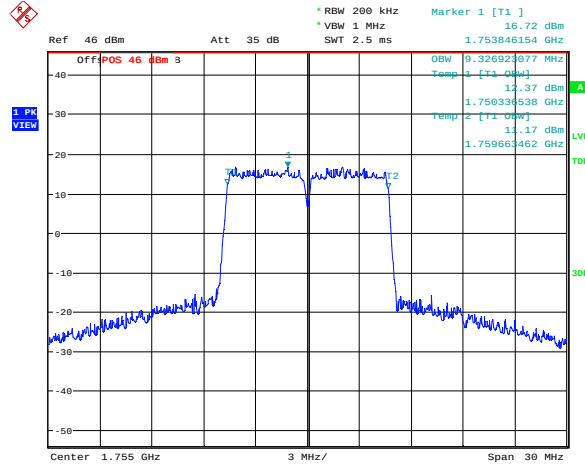


Date: 14.DEC.2023 10:54:12

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

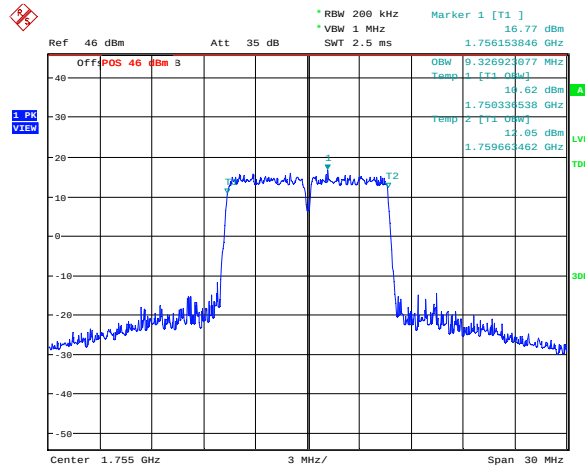
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	9.327	9.327

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



Date: 14.DEC.2023 11:52:15

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

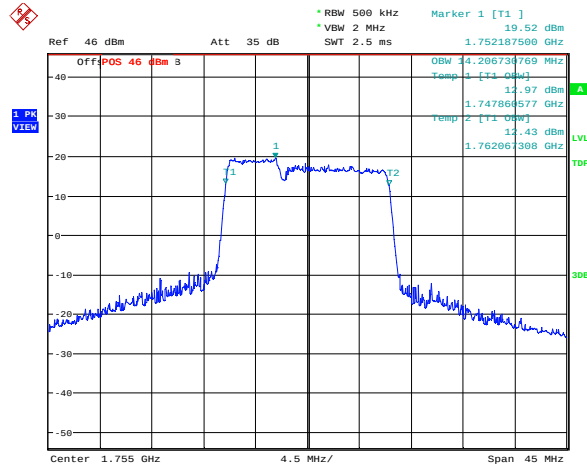


Date: 14.DEC.2023 11:52:38

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

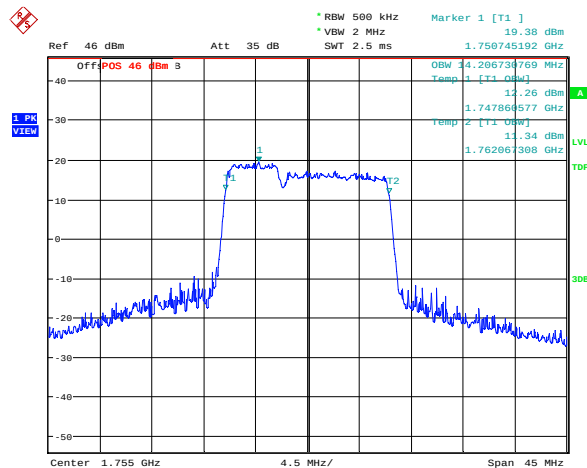
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	14.207	14.207

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



Date: 14.DEC.2023 11:53:31

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

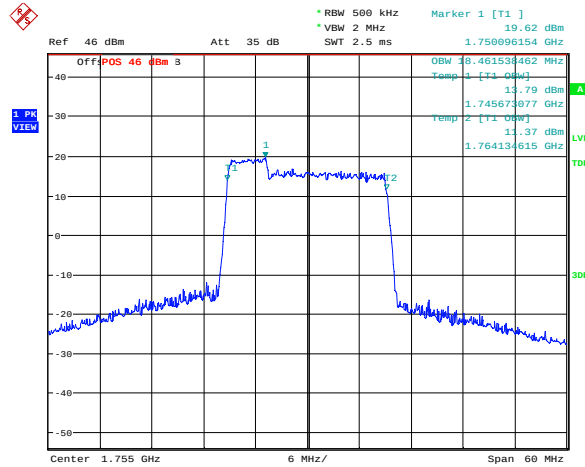


Date: 14.DEC.2023 11:53:55

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

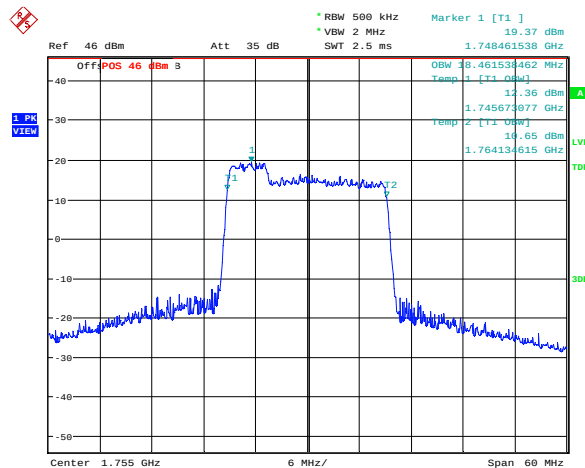
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	18.462	18.462

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



Date: 14.DEC.2023 11:54:48

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

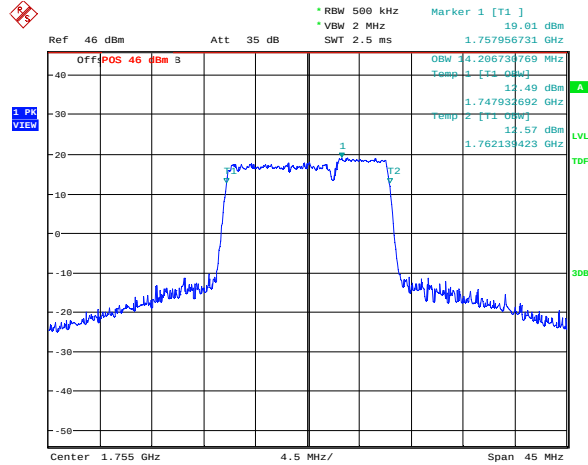


Date: 14.DEC.2023 11:55:11

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

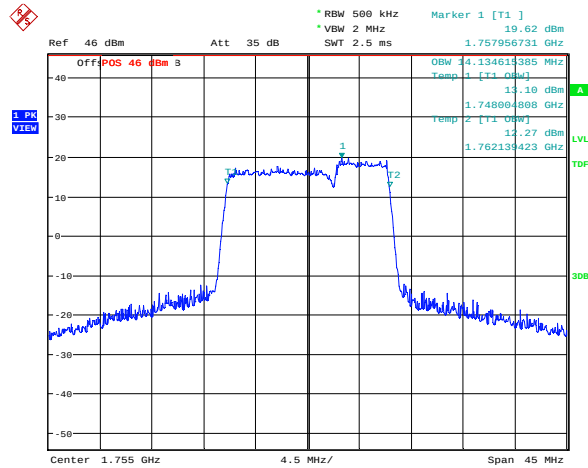
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	14.207	14.135

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



Date: 14.DEC.2023 11:56:06

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

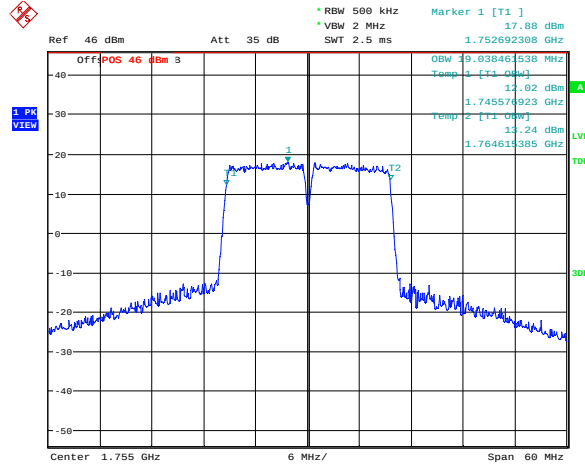


Date: 14.DEC.2023 11:56:30

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

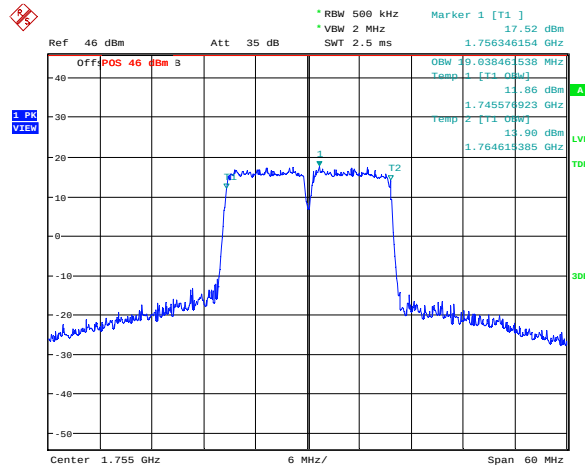
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	19.038	19.038

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



Date: 14.DEC.2023 11:57:23

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

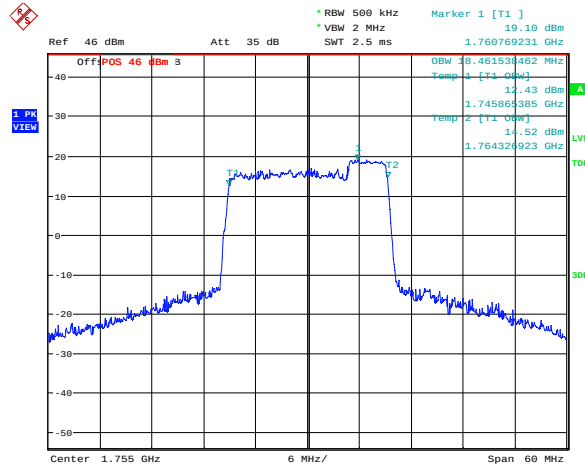


Date: 14.DEC.2023 11:57:47

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

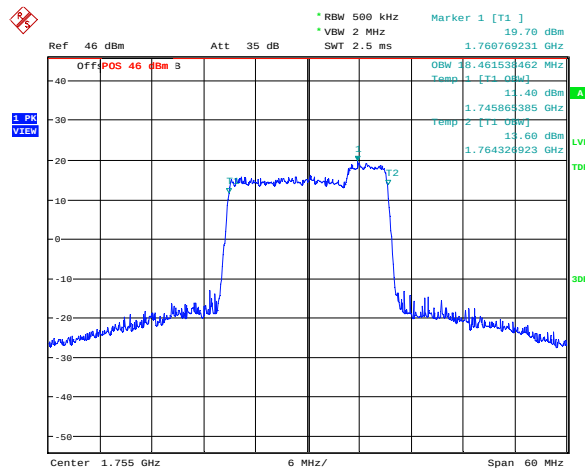
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	18.462	18.462

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



Date: 14.DEC.2023 11:58:42

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

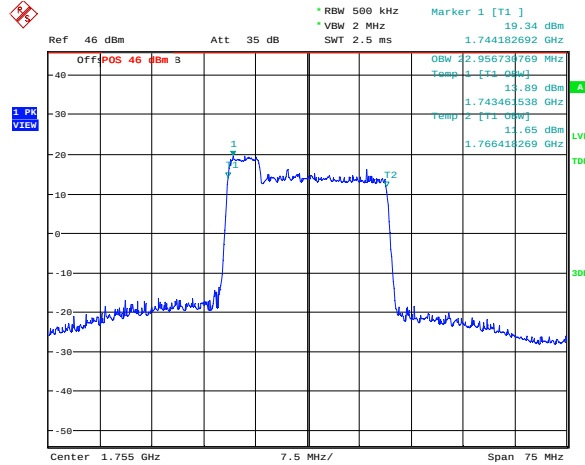


Date: 14.DEC.2023 11:59:05

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

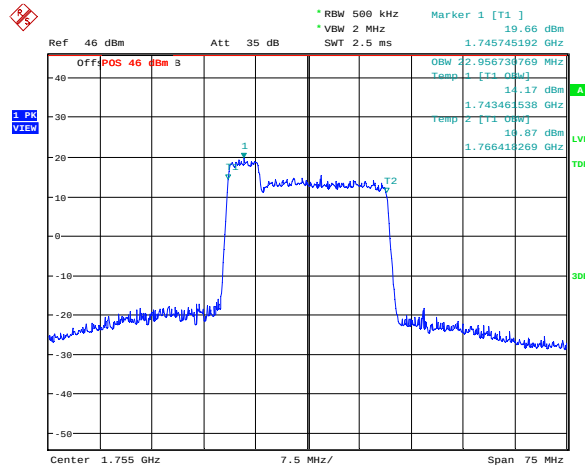
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	22.957	22.957

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



Date: 14.DEC.2023 12:00:00

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

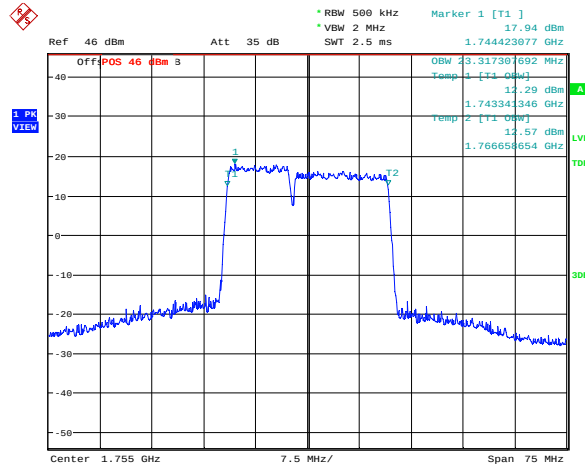


Date: 14.DEC.2023 12:00:26

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

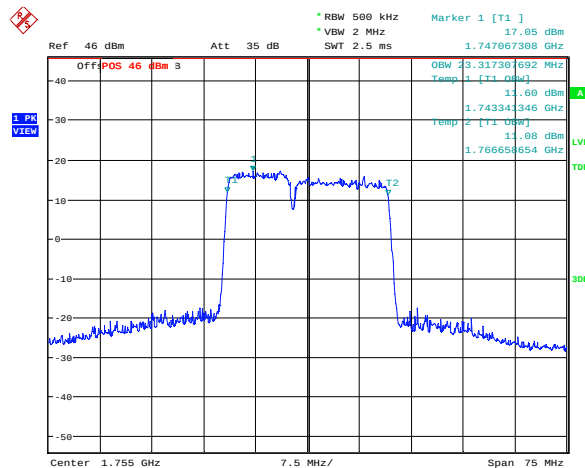
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	23.317	23.317

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



Date: 14.DEC.2023 12:01:22

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

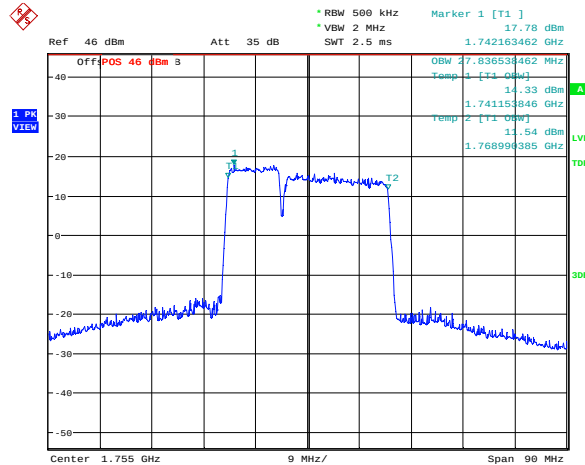


Date: 14.DEC.2023 12:01:45

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

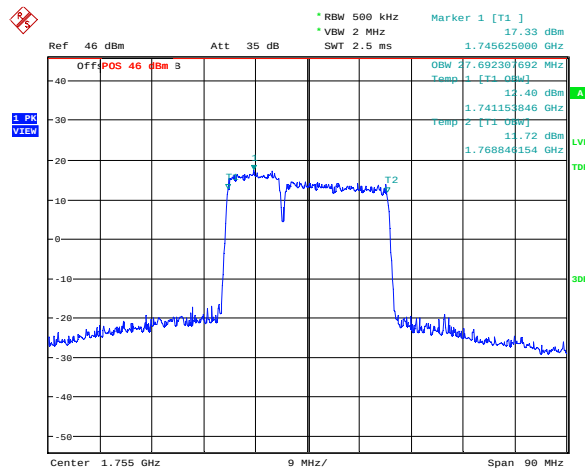
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	27.837	27.692

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



Date: 14.DEC.2023 12:02:38

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

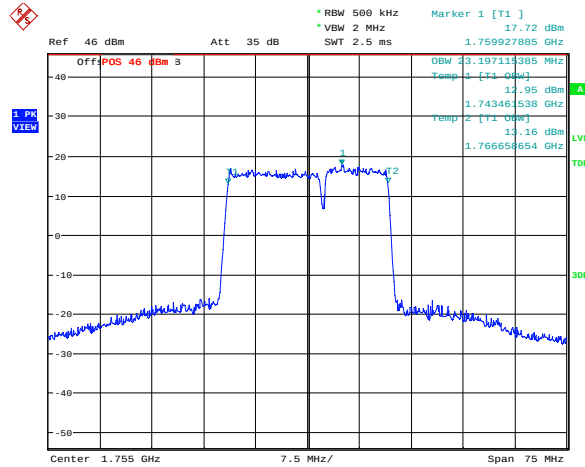


Date: 14.DEC.2023 12:03:02

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

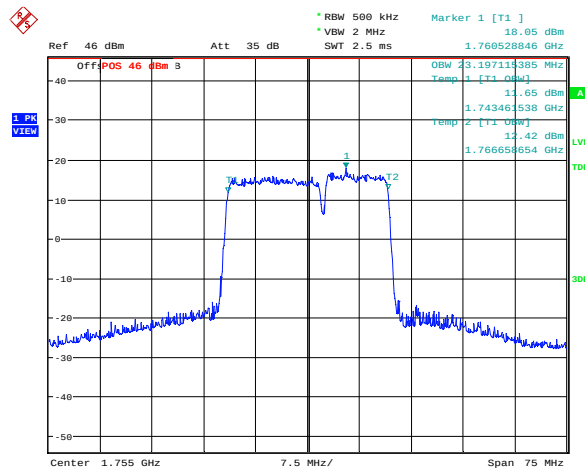
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	23.197	23.197

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



Date: 14.DEC.2023 12:03:56

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

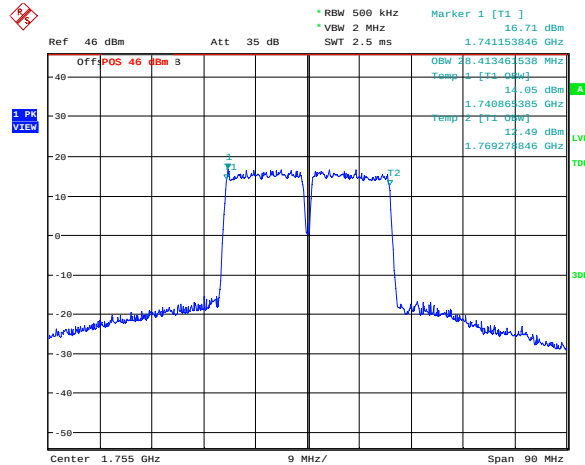


Date: 14.DEC.2023 12:04:20

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

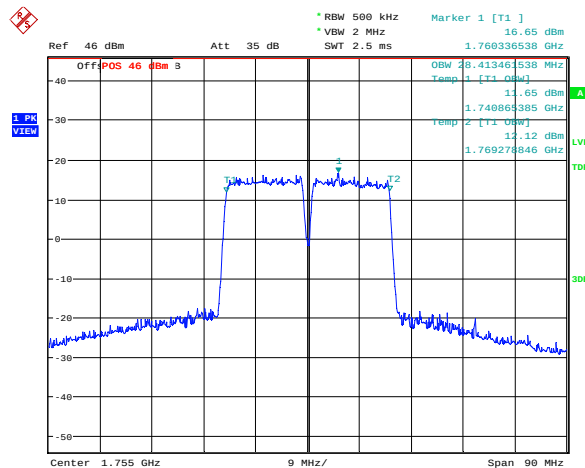
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	28.413	28.413

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



Date: 14.DEC.2023 12:05:13

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

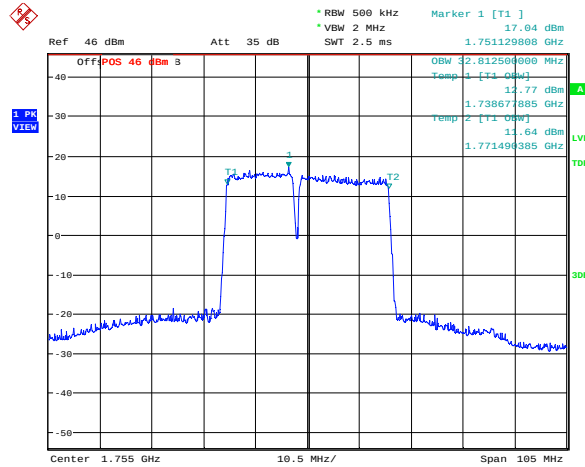


Date: 14.DEC.2023 12:05:36

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

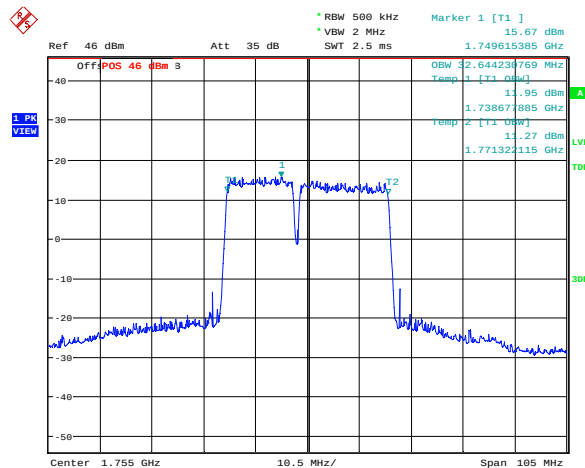
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	32.812	32.644

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



Date: 14.DEC.2023 12:06:30

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

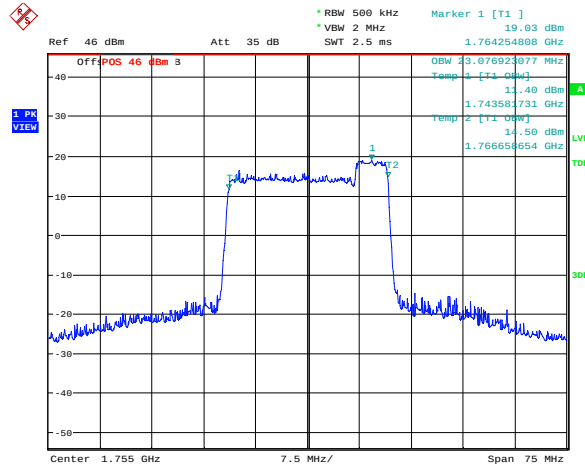


Date: 14.DEC.2023 12:06:56

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

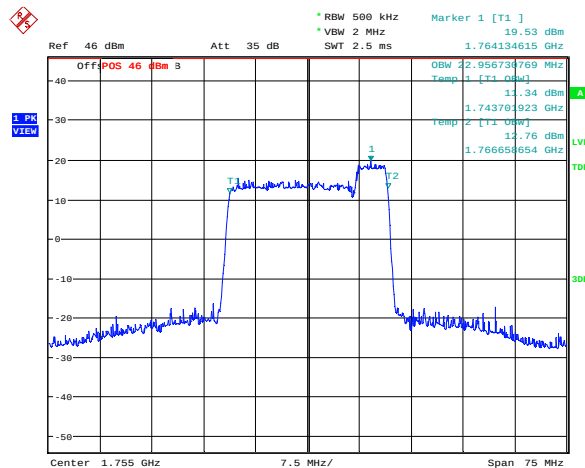
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	23.077	22.957

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



Date: 14.DEC.2023 12:07:51

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

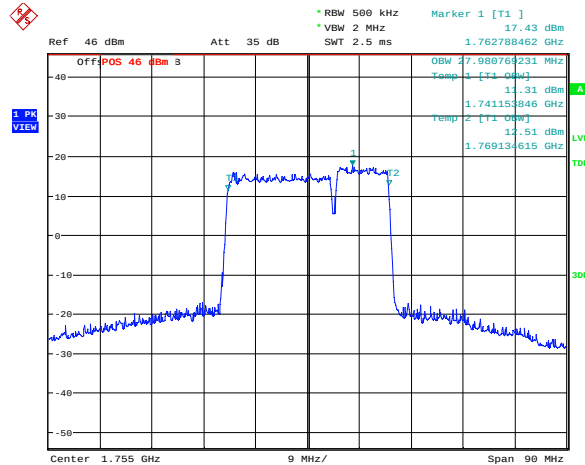


Date: 14.DEC.2023 12:08:14

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

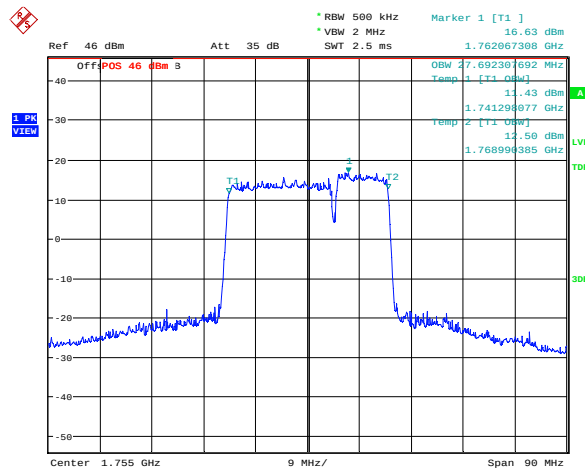
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	27.981	27.692

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



Date: 14.DEC.2023 12:09:08

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

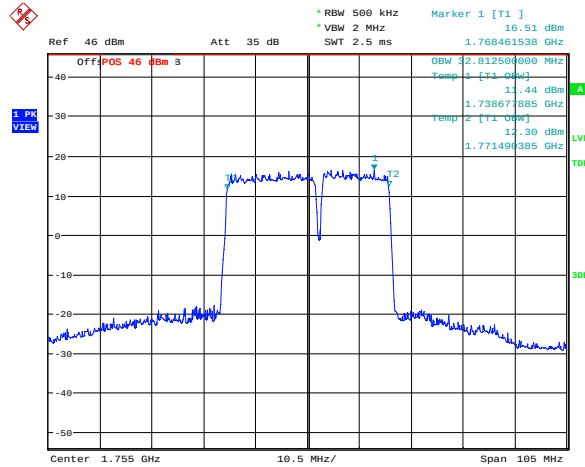


Date: 14.DEC.2023 12:09:31

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

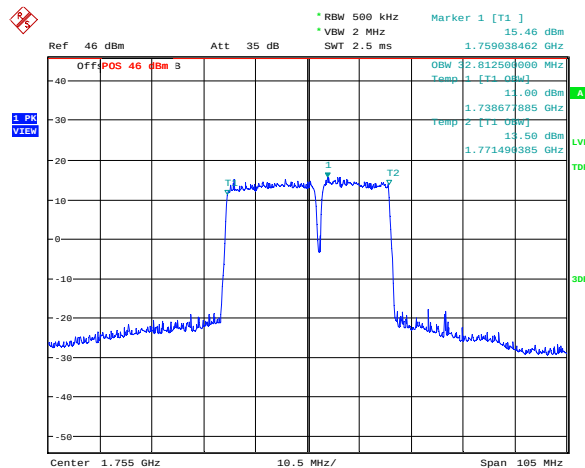
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	32.812	32.812

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



Date: 14.DEC.2023 12:10:25

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

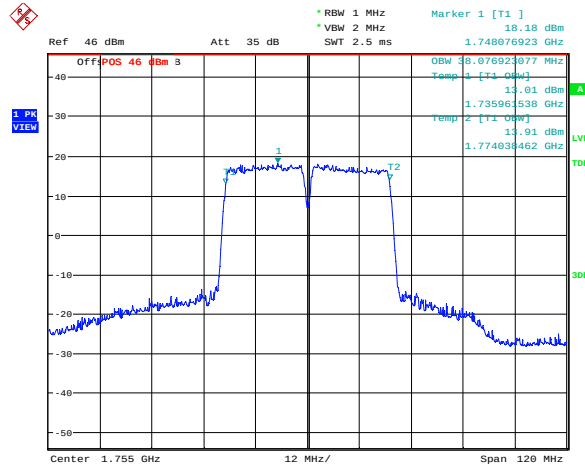


Date: 14.DEC.2023 12:10:48

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

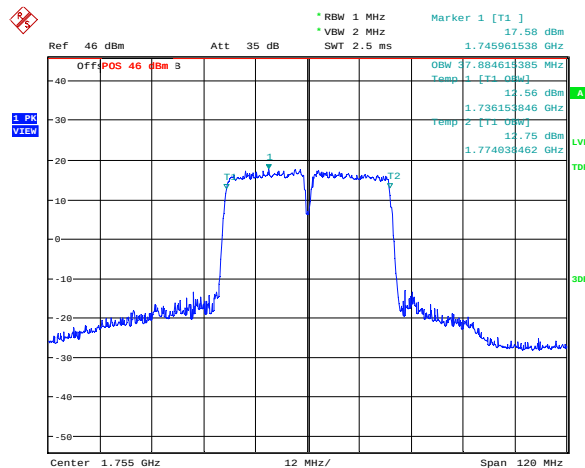
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	38.077	37.885

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



Date: 14.DEC.2023 12:11:42

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



Date: 14.DEC.2023 12:12:05

Note: Expanded measurement uncertainty is $U = 3428 \text{ Hz}$, $k = 2$.

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.

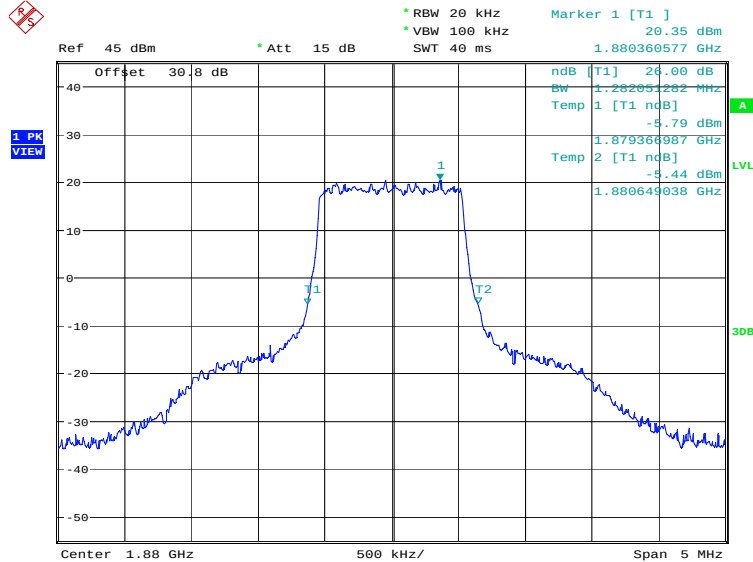
The measurement method is from ANSI C63.26:

- 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)

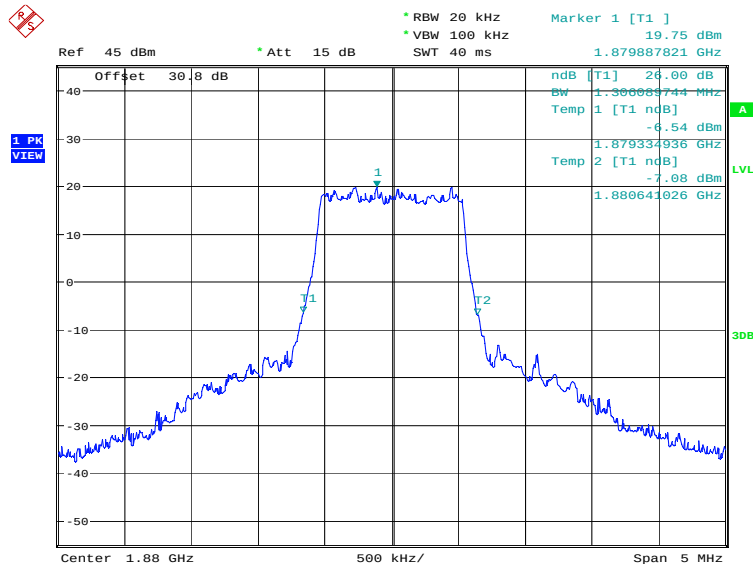
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	1282.05	1306.09

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



Date: 22.DEC.2023 07:18:12

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

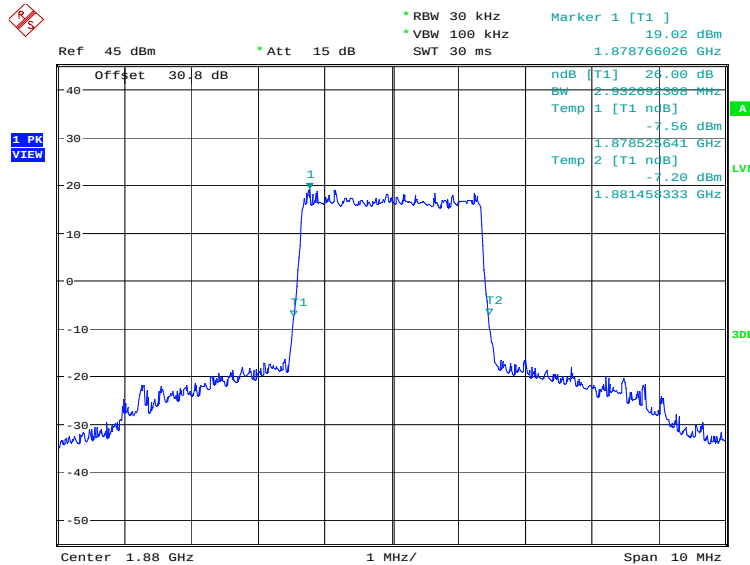


Date: 22.DEC.2023 07:18:54

LTE band 2, 3MHz (-26dBc)

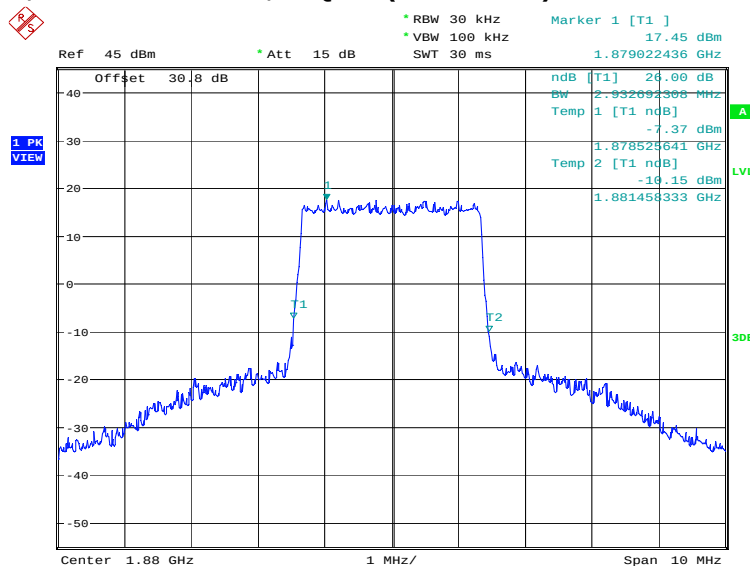
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	2932.69	2932.69

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



Date: 22.DEC.2023 07:19:36

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

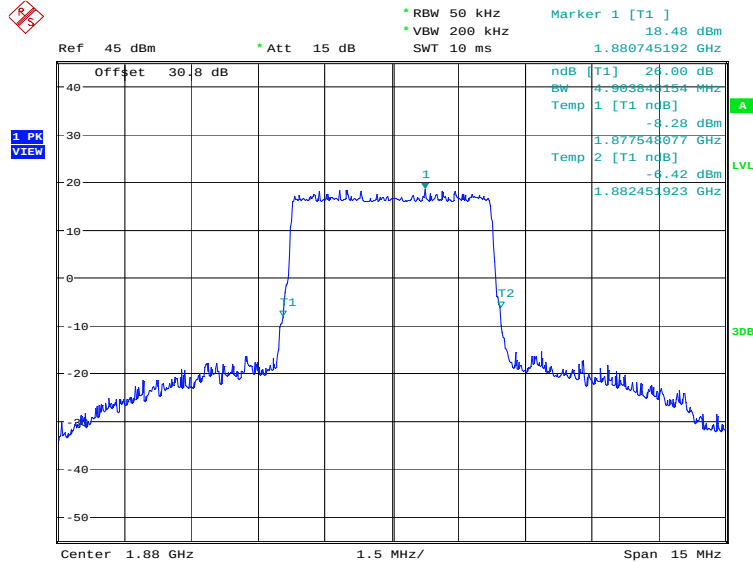


Date: 22.DEC.2023 07:20:16

LTE band 2, 5MHz (-26dBc)

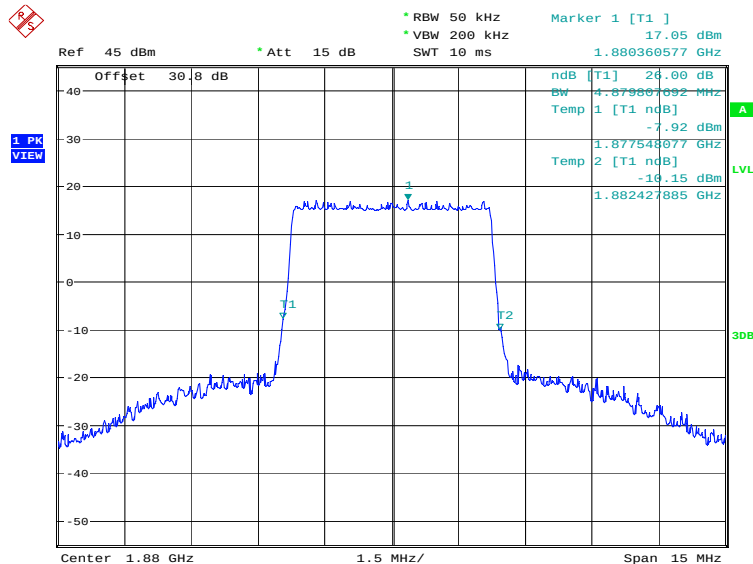
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	4903.85	4879.81

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



Date: 22.DEC.2023 07:20:58

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

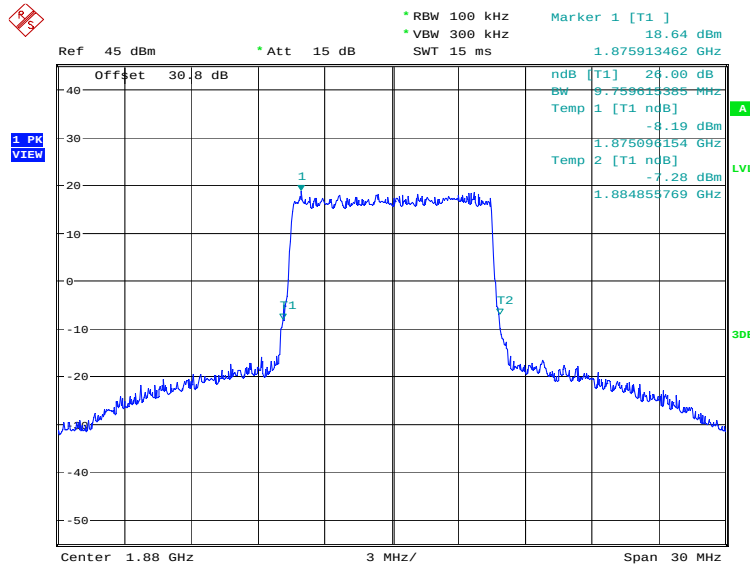


Date: 22.DEC.2023 07:21:38

LTE band 2, 10MHz (-26dBc)

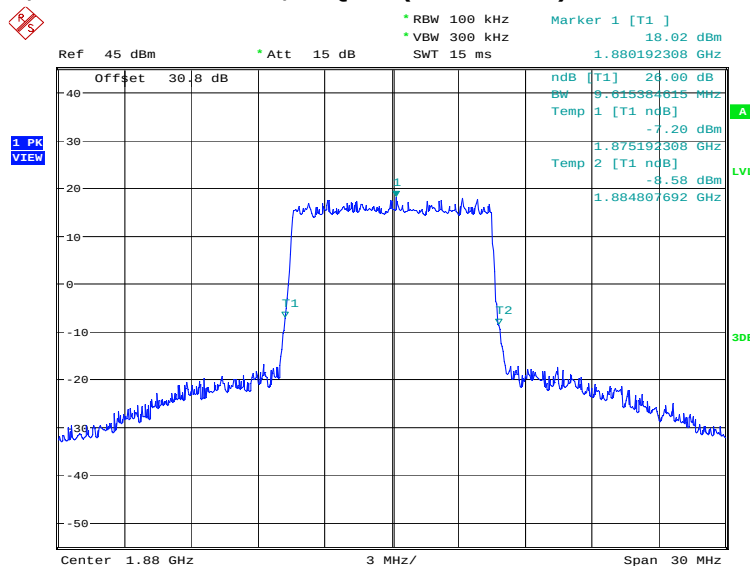
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	9759.62	9615.38

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



Date: 22.DEC.2023 07:22:20

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

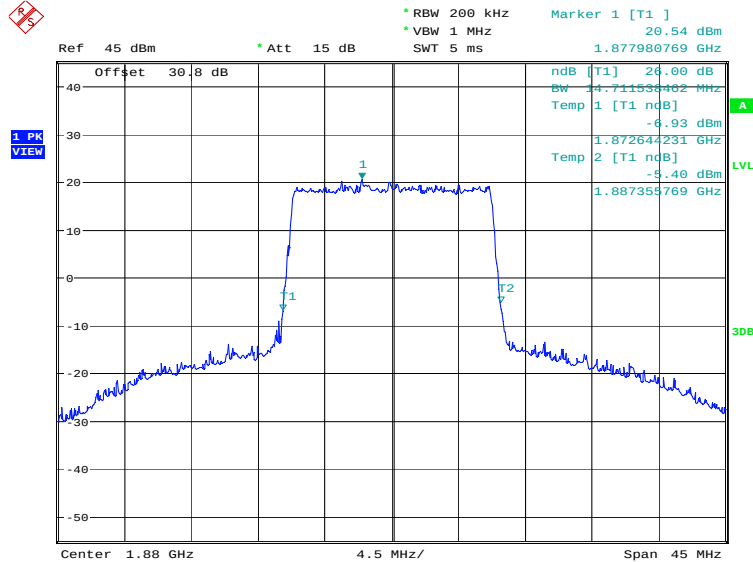


Date: 22.DEC.2023 07:23:00

LTE band 2, 15MHz (-26dBc)

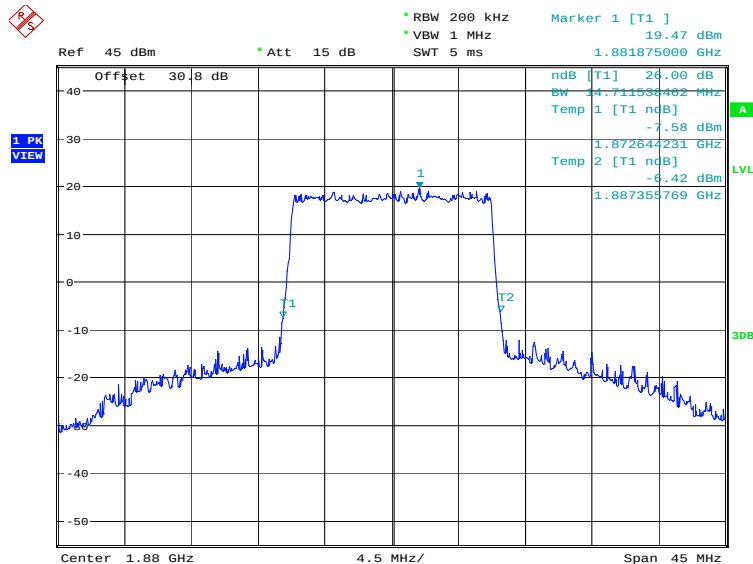
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	14711.54	14711.54

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



Date: 22.DEC.2023 07:23:42

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

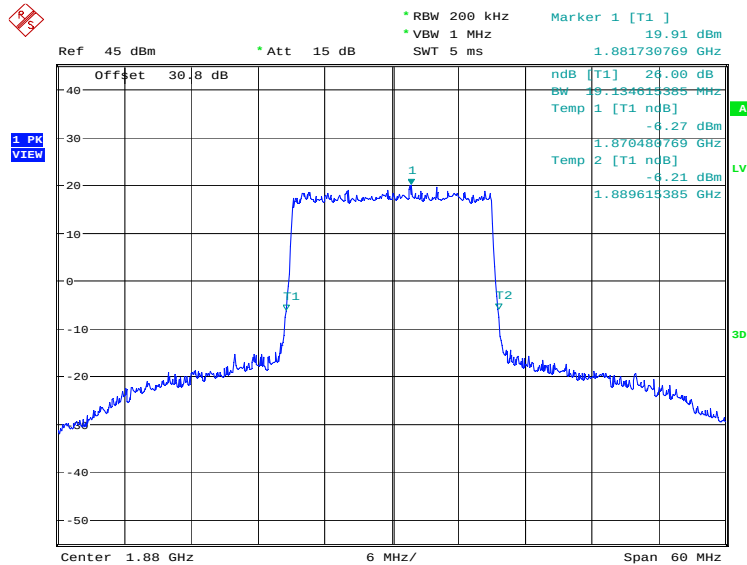


Date: 22.DEC.2023 07:24:22

LTE band 2, 20MHz (-26dBc)

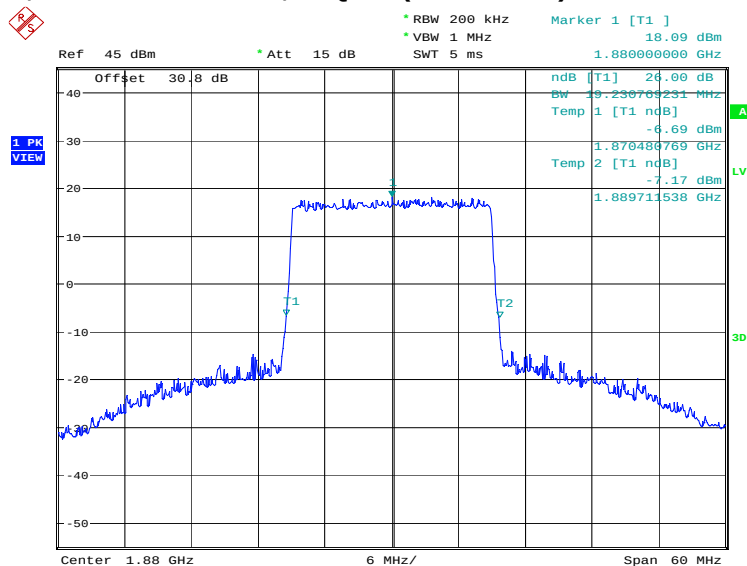
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	19134.62	19230.77

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



Date: 22.DEC.2023 07:25:05

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

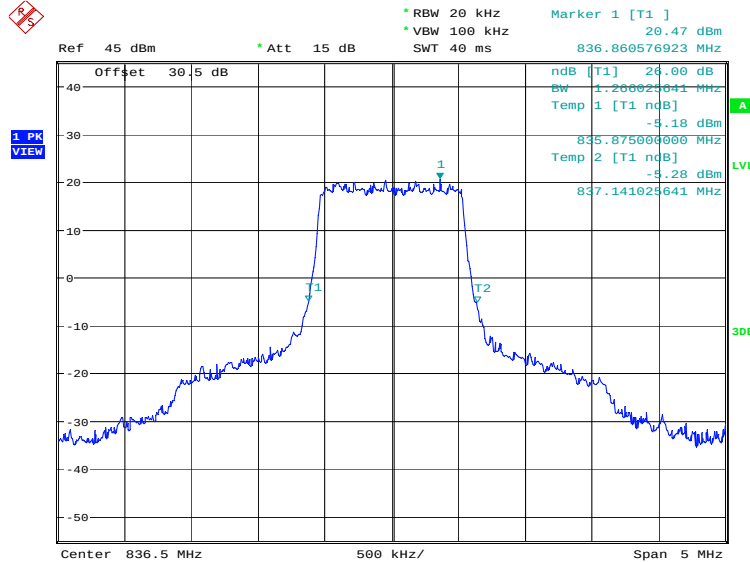


Date: 22.DEC.2023 07:25:45

LTE band 5, 1.4MHz (-26dBc)

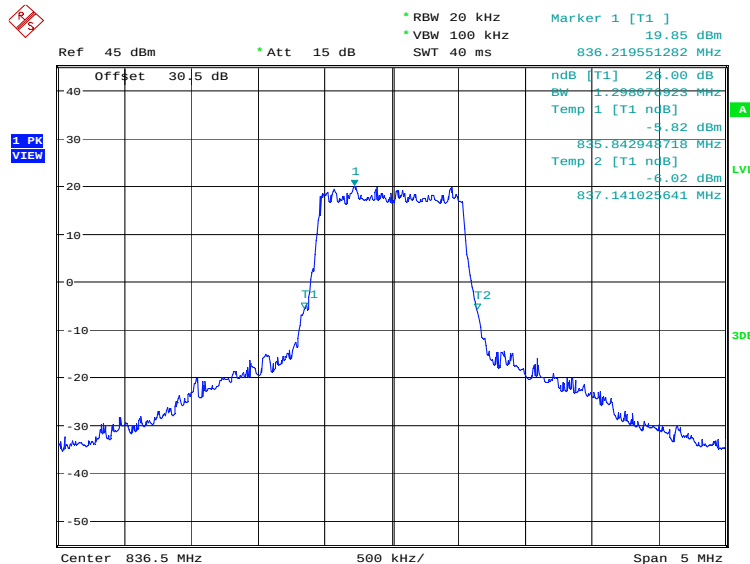
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	1266.03	1298.08

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



Date: 22.DEC.2023 08:29:30

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

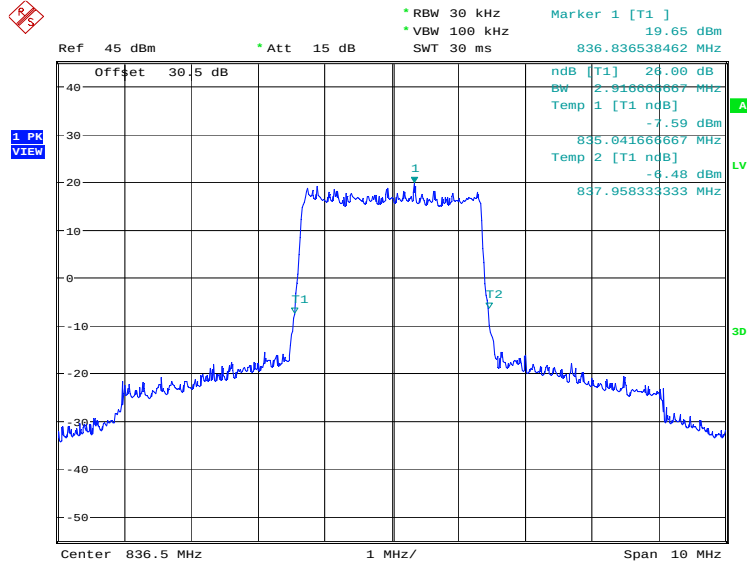


Date: 22.DEC.2023 08:30:10

LTE band 5, 3MHz (-26dBc)

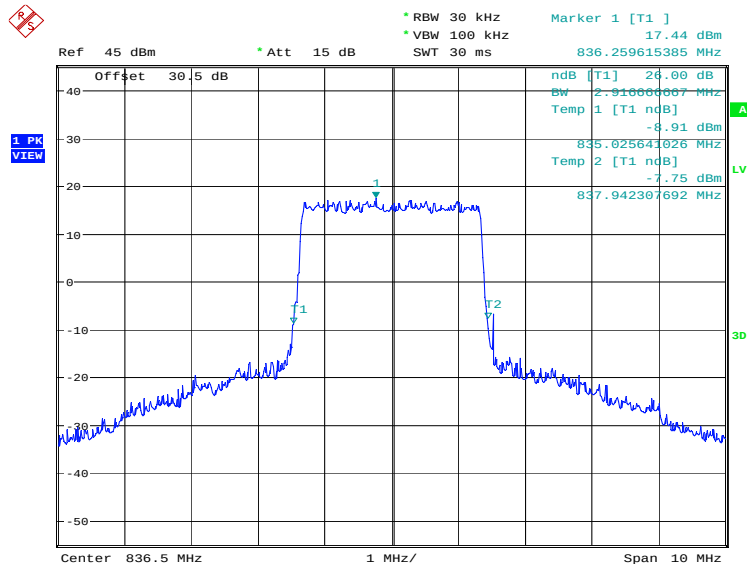
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	2916.67	2916.67

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



Date: 22.DEC.2023 08:30:52

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

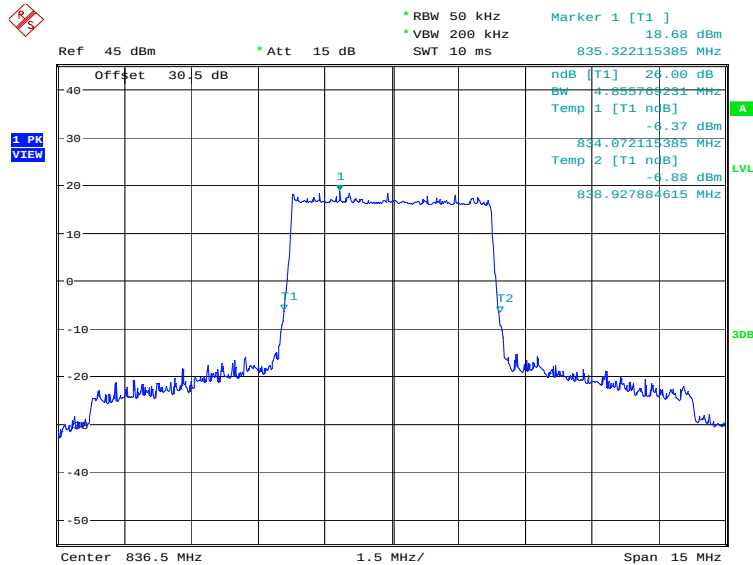


Date: 22.DEC.2023 08:31:32

LTE band 5, 5MHz (-26dBc)

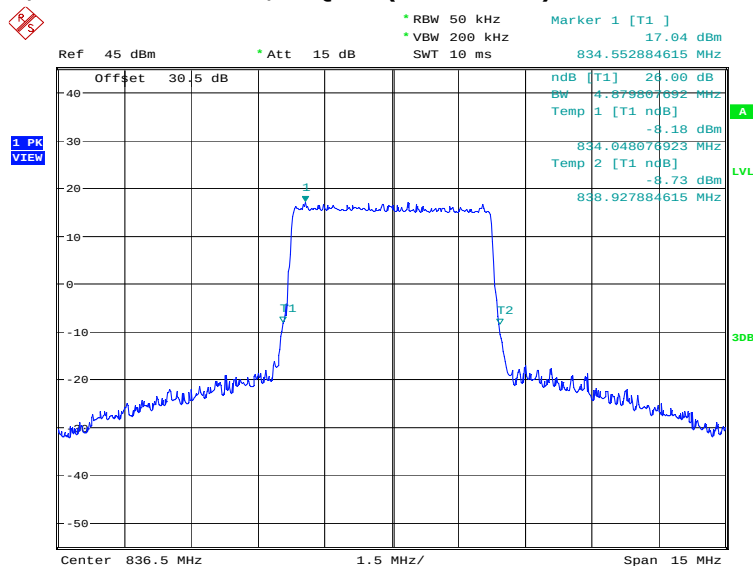
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	4855.77	4879.81

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



Date: 22.DEC.2023 08:32:14

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

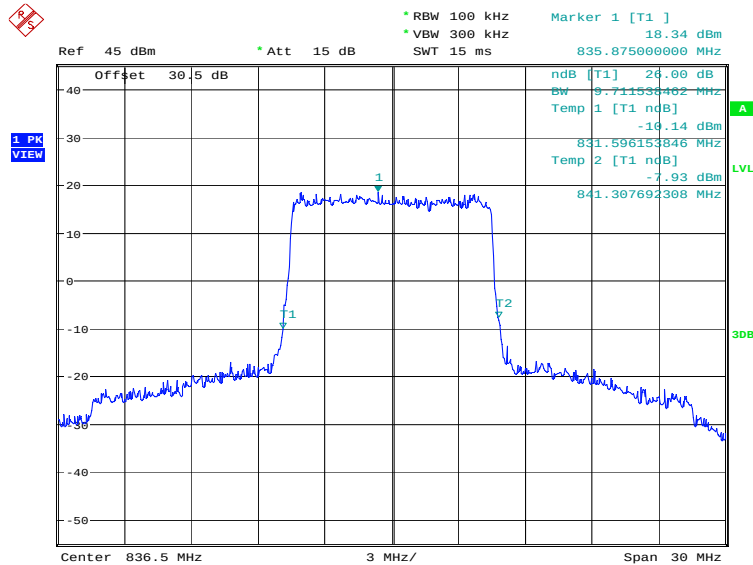


Date: 22.DEC.2023 08:32:54

LTE band 5, 10MHz (-26dBc)

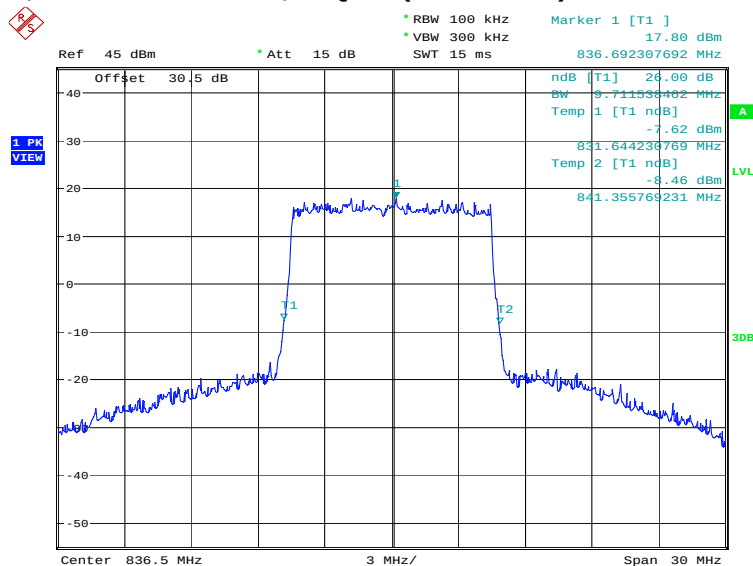
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	9711.54	9711.54

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



Date: 22.DEC.2023 08:33:36

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

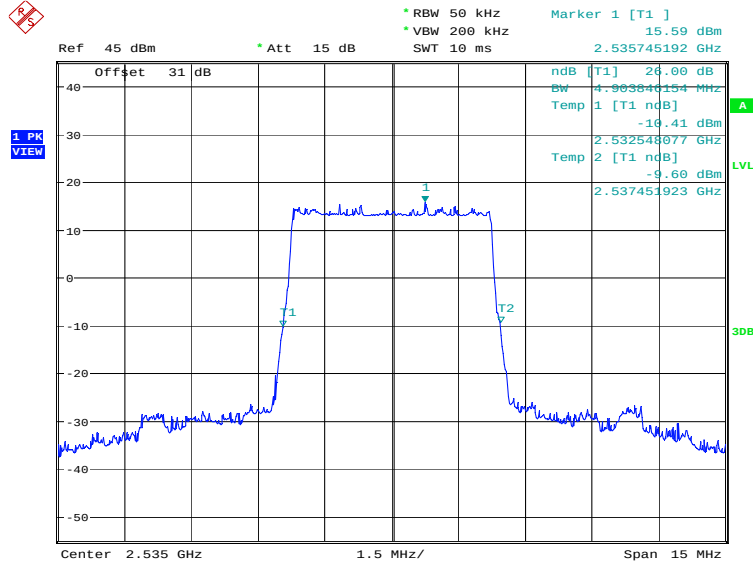


Date: 22.DEC.2023 08:34:16

LTE band 7, 5MHz (-26dBc)

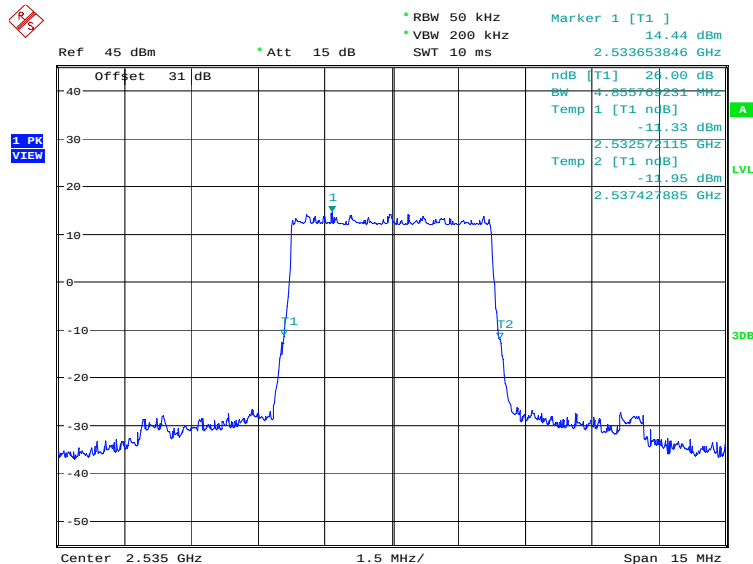
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	4903.85	4855.77

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



Date: 5.DEC.2023 13:37:37

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

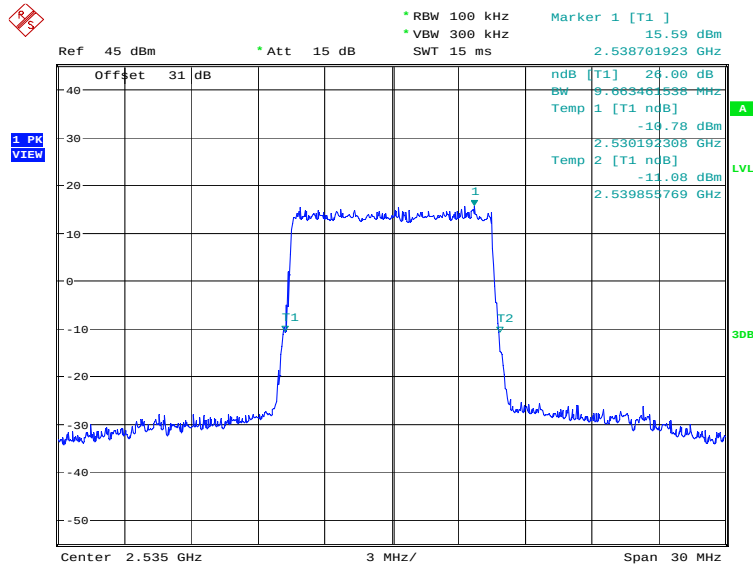


Date: 5.DEC.2023 13:38:17

LTE band 7, 10MHz (-26dBc)

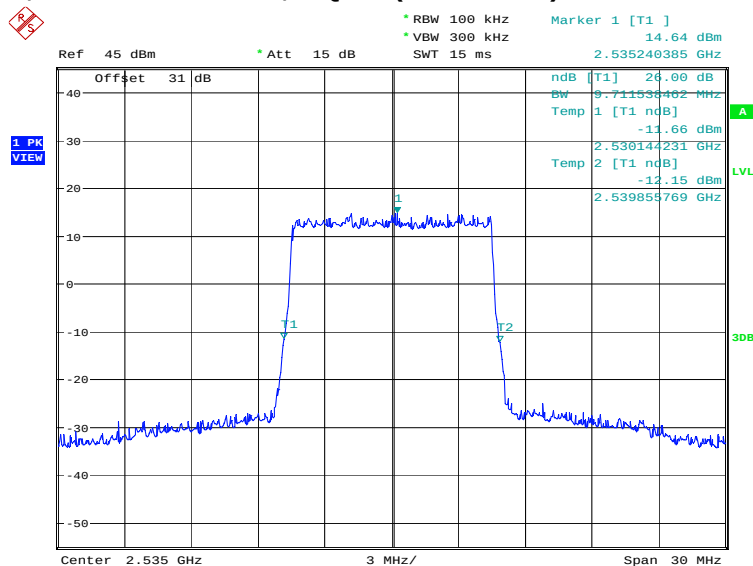
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	9663.46	9711.54

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



Date: 5.DEC.2023 13:38:58

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

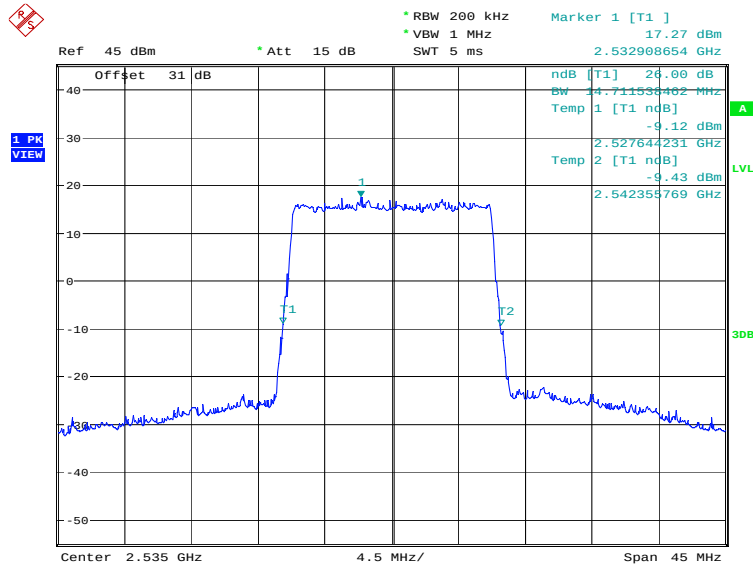


Date: 5.DEC.2023 13:39:38

LTE band 7, 15MHz (-26dBc)

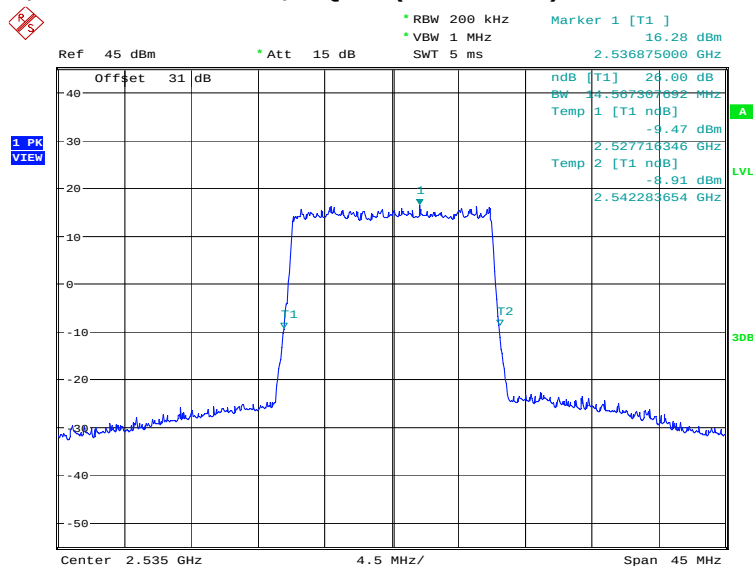
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	14711.54	14567.31

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



Date: 5.DEC.2023 13:40:21

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

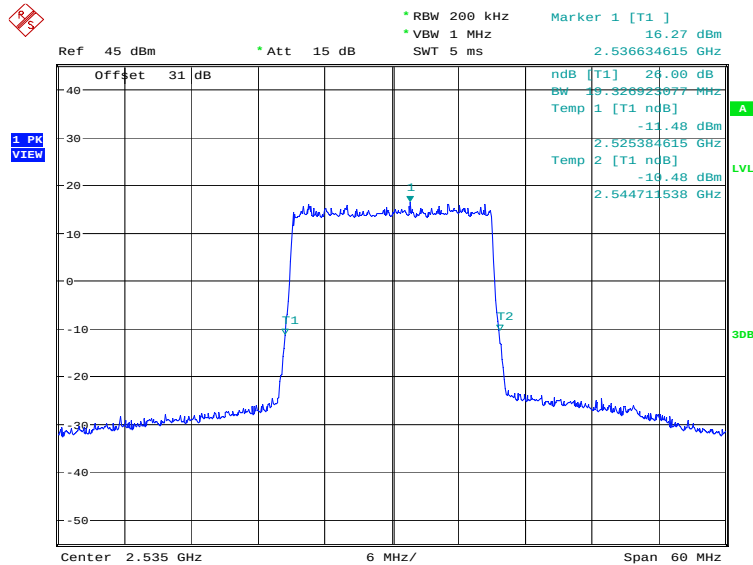


Date: 5.DEC.2023 13:41:01

LTE band 7, 20MHz (-26dBc)

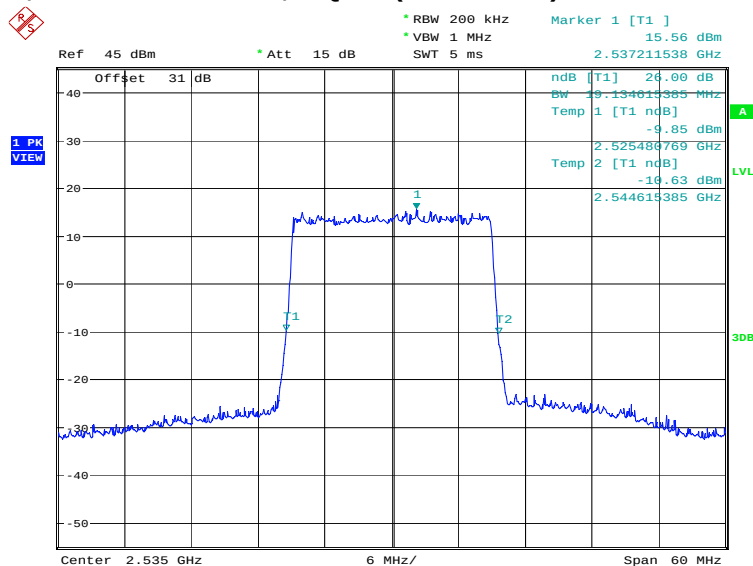
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	19326.92	19134.62

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



Date: 5.DEC.2023 13:41:43

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

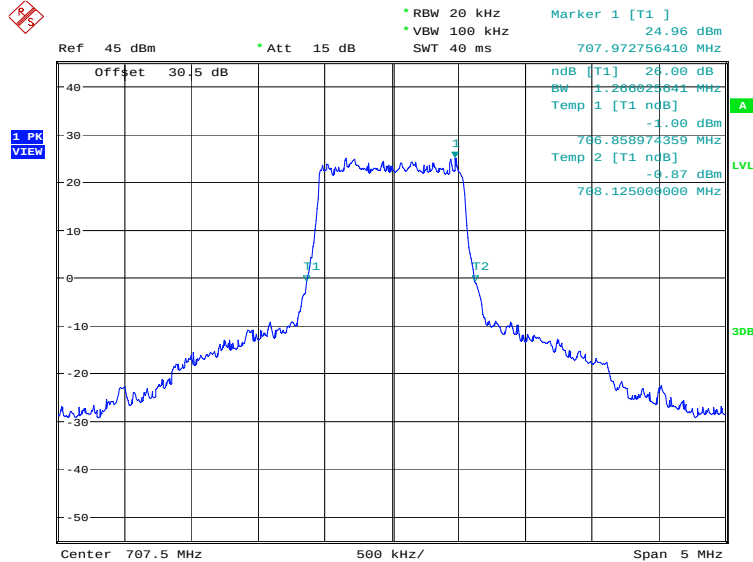


Date: 5.DEC.2023 13:42:23

LTE band 12, 1.4MHz (-26dBc)

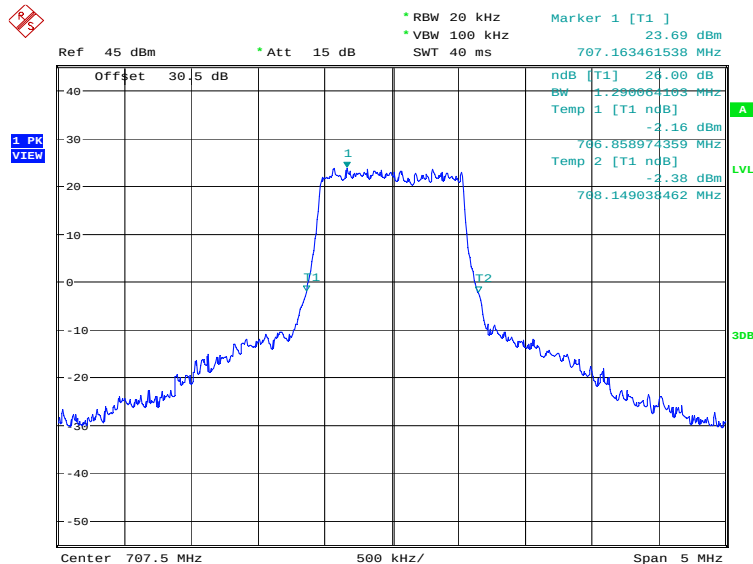
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	1266.03	1290.06

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



Date: 5.DEC.2023 12:56:46

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

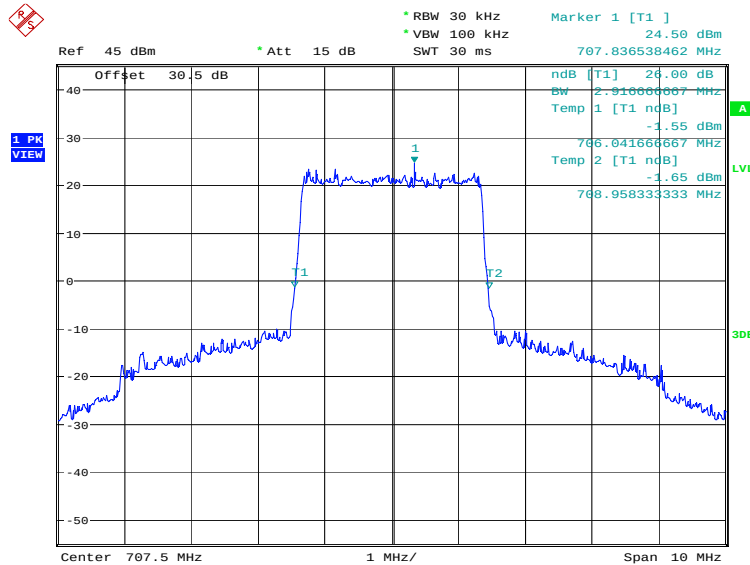


Date: 5.DEC.2023 12:57:26

LTE band 12, 3MHz (-26dBc)

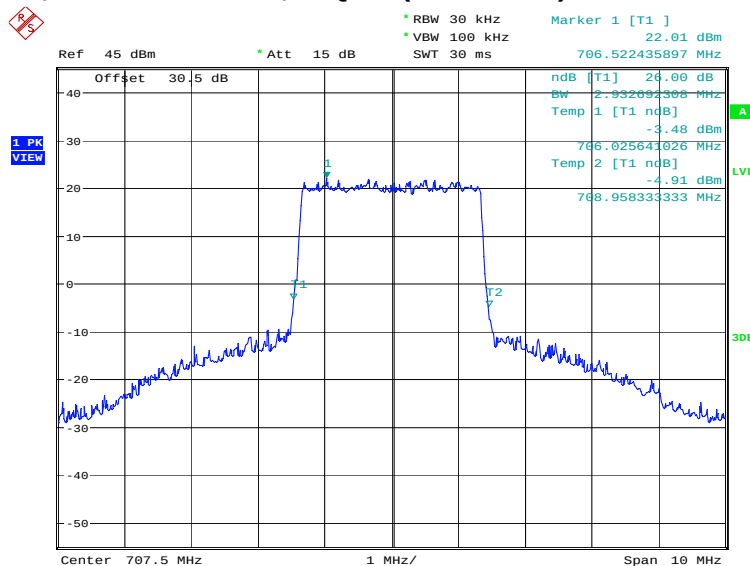
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	2916.67	2932.69

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



Date: 5.DEC.2023 12:58:09

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

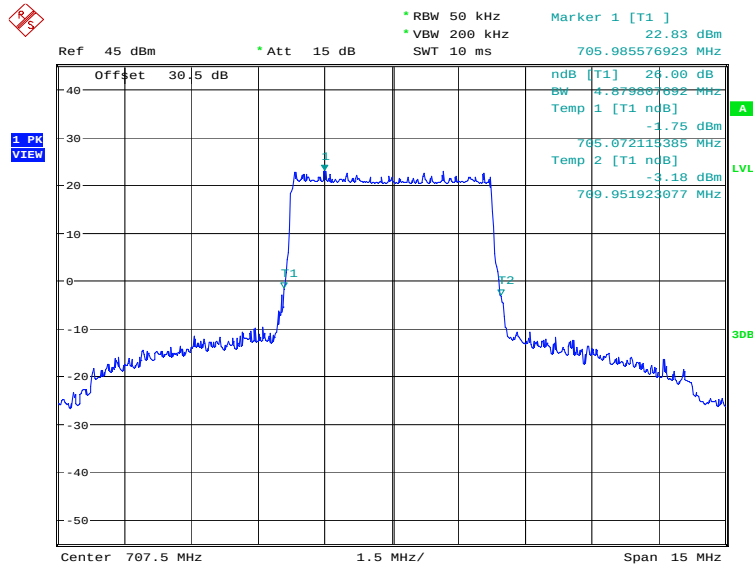


Date: 5.DEC.2023 12:58:49

LTE band 12, 5MHz (-26dBc)

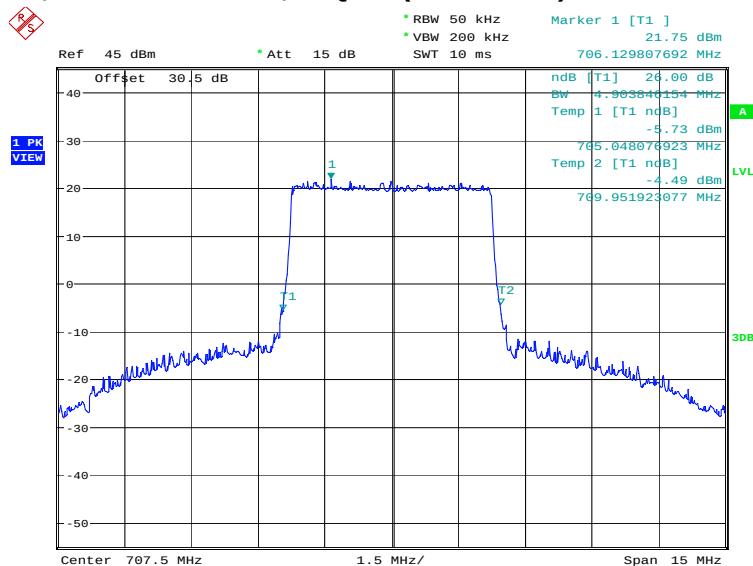
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	4879.81	4903.85

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



Date: 5.DEC.2023 12:59:31

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

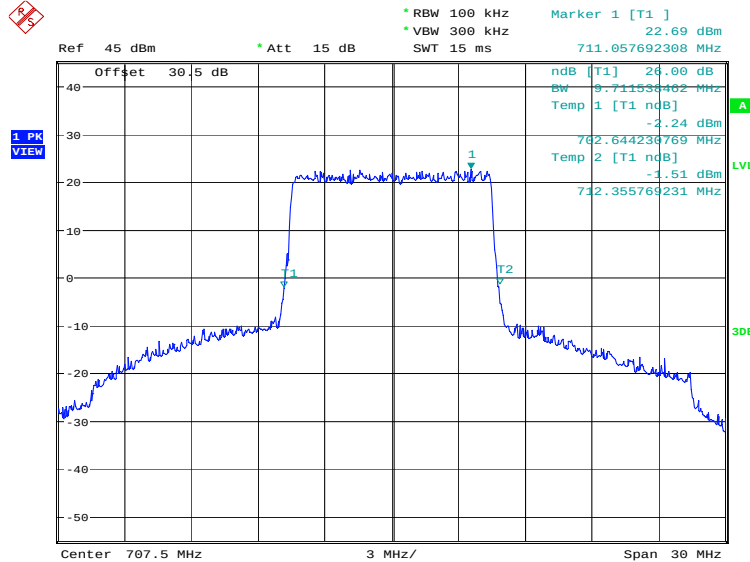


Date: 5.DEC.2023 13:00:12

LTE band 12, 10MHz (-26dBc)

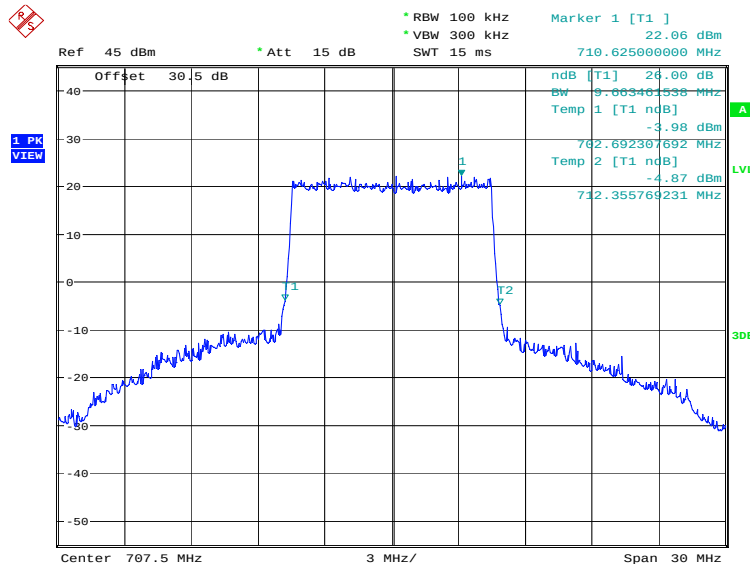
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	9711.54	9663.46

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



Date: 5.DEC.2023 13:00:54

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

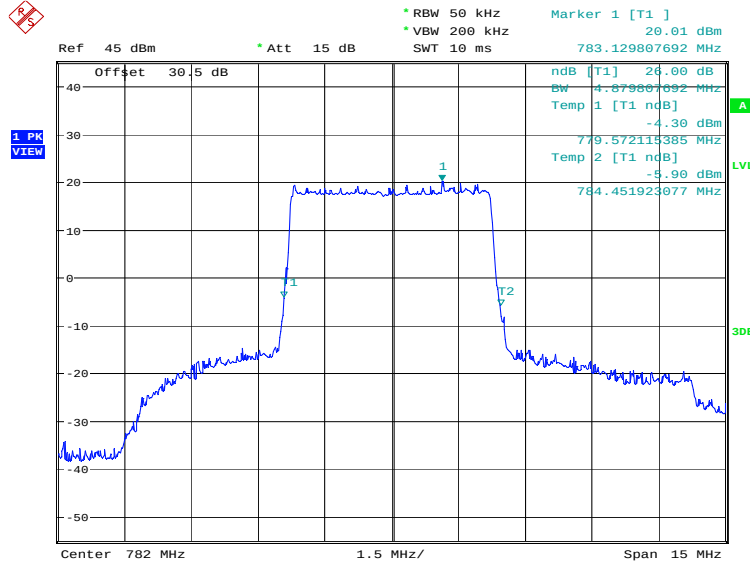


Date: 5.DEC.2023 13:01:34

LTE band 13, 5MHz (-26dBc)

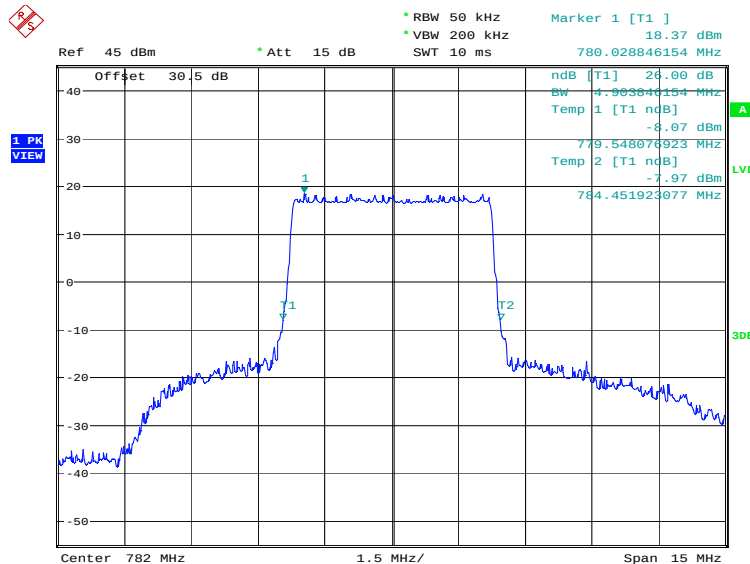
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	4879.81	4903.85

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



Date: 5.DEC.2023 13:02:18

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

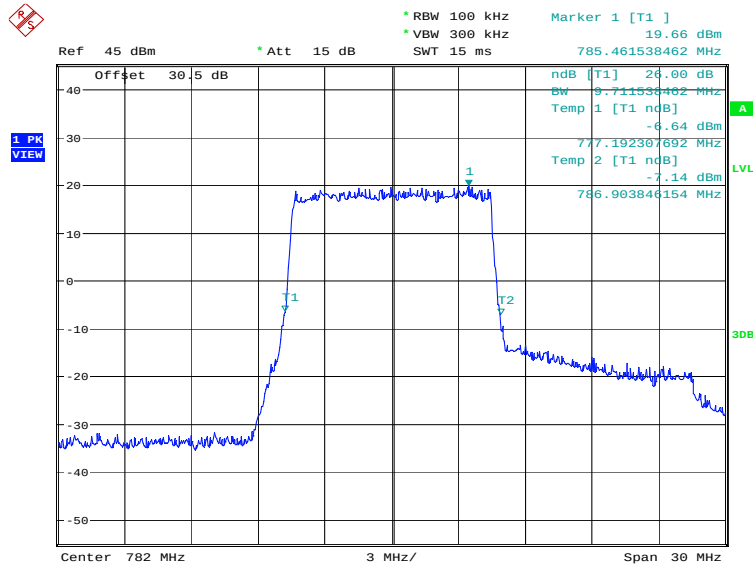


Date: 5.DEC.2023 13:02:59

LTE band 13, 10MHz (-26dBc)

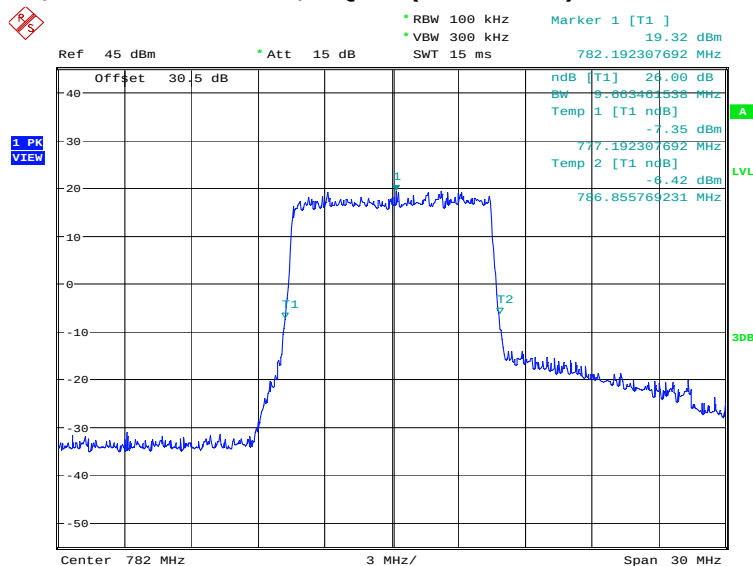
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	9711.54	9663.46

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



Date: 5.DEC.2023 13:03:41

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

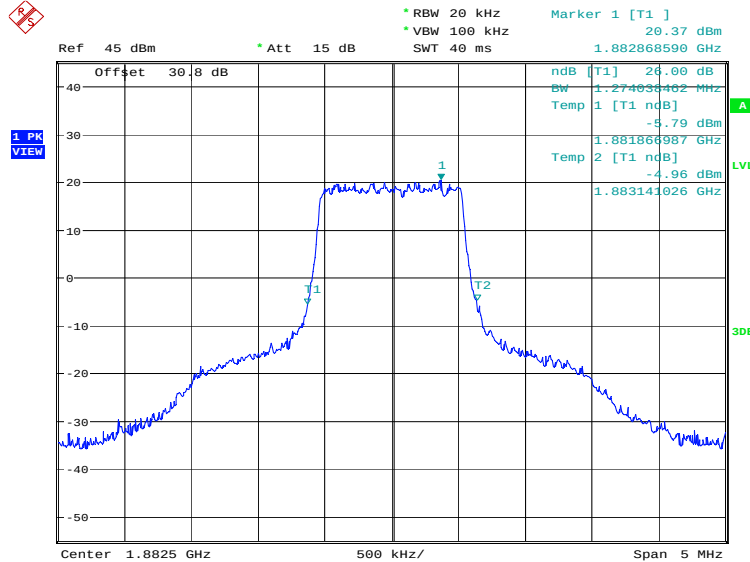


Date: 5.DEC.2023 13:04:22

LTE band 25, 1.4MHz (-26dBc)

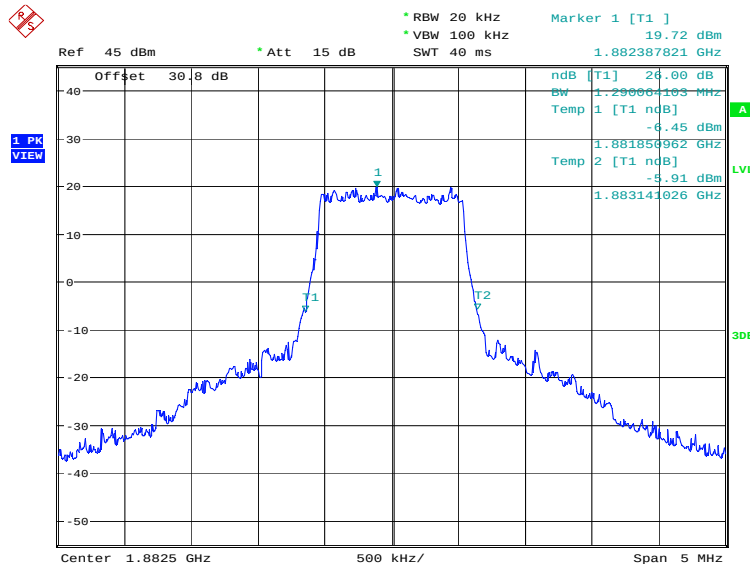
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	1274.04	1290.06

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



Date: 5.DEC.2023 11:10:49

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

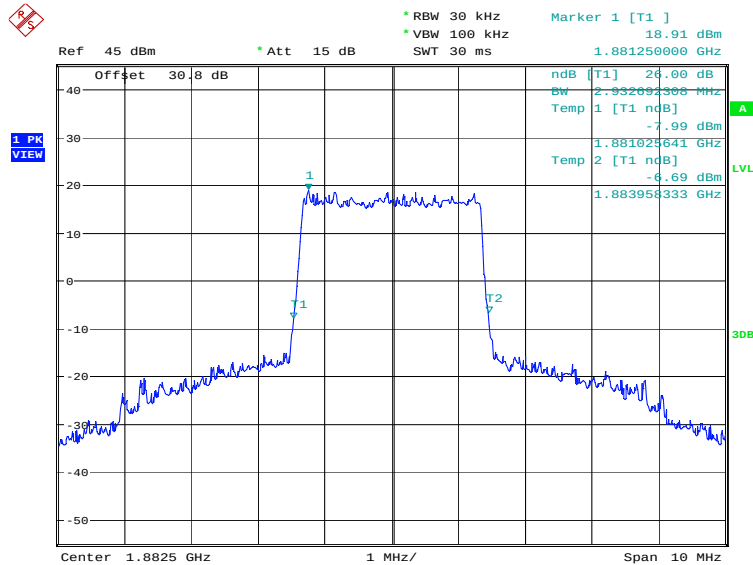


Date: 5.DEC.2023 11:11:29

LTE band 25, 3MHz (-26dBc)

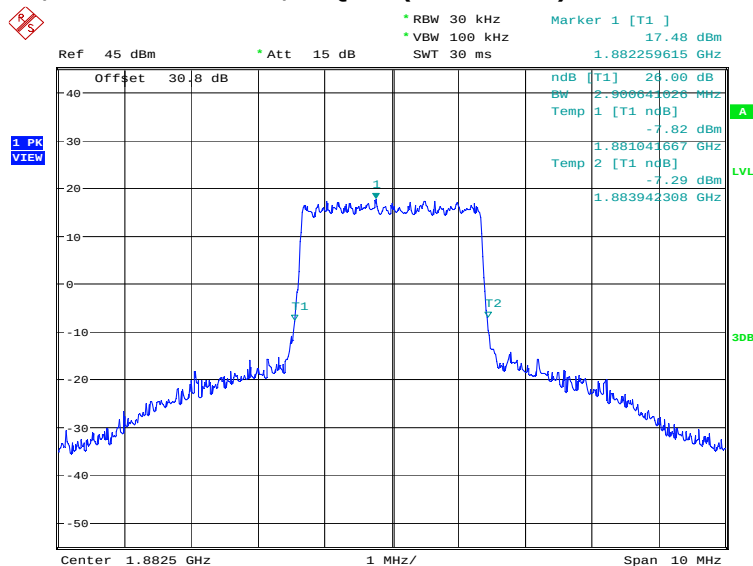
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	2932.69	2900.64

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



Date: 5.DEC.2023 11:12:11

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

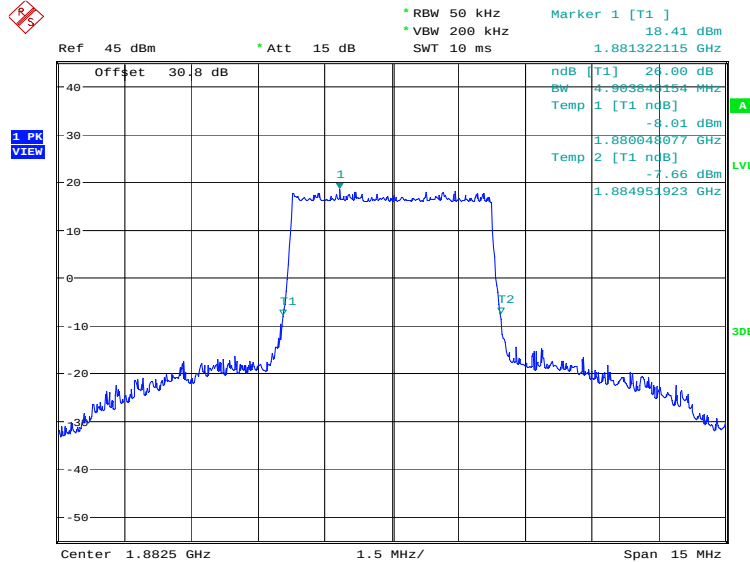


Date: 5.DEC.2023 11:12:51

LTE band 25, 5MHz (-26dBc)

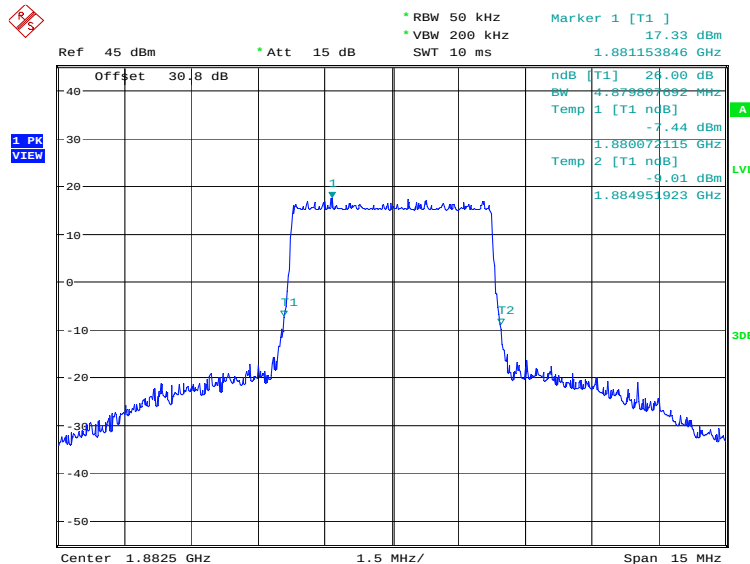
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	4903.85	4879.81

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



Date: 5.DEC.2023 11:13:33

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

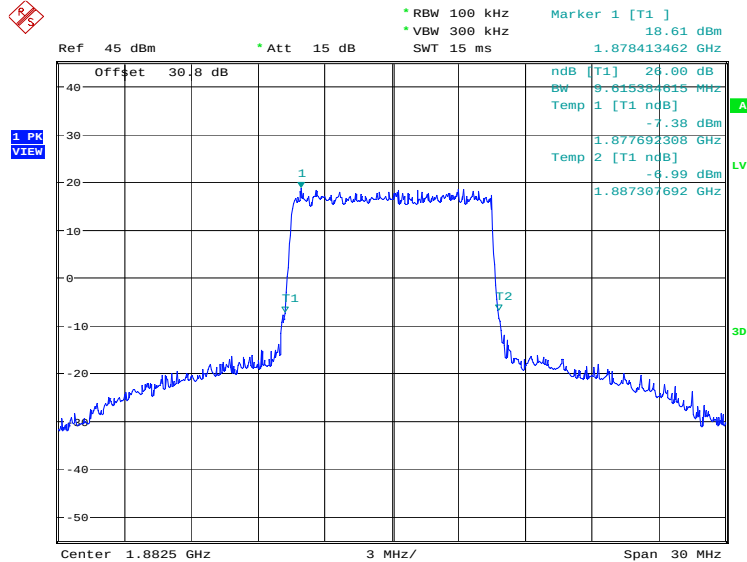


Date: 5.DEC.2023 11:14:13

LTE band 25, 10MHz (-26dBc)

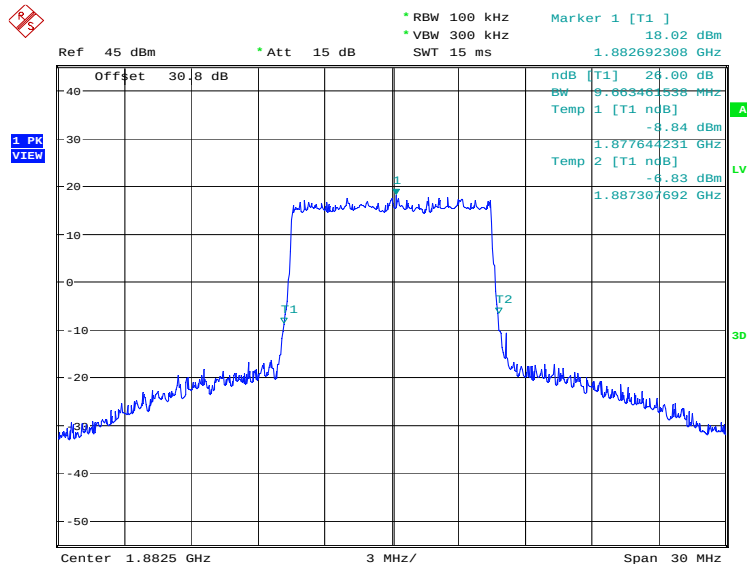
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	9615.38	9663.46

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



Date: 5.DEC.2023 11:14:56

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

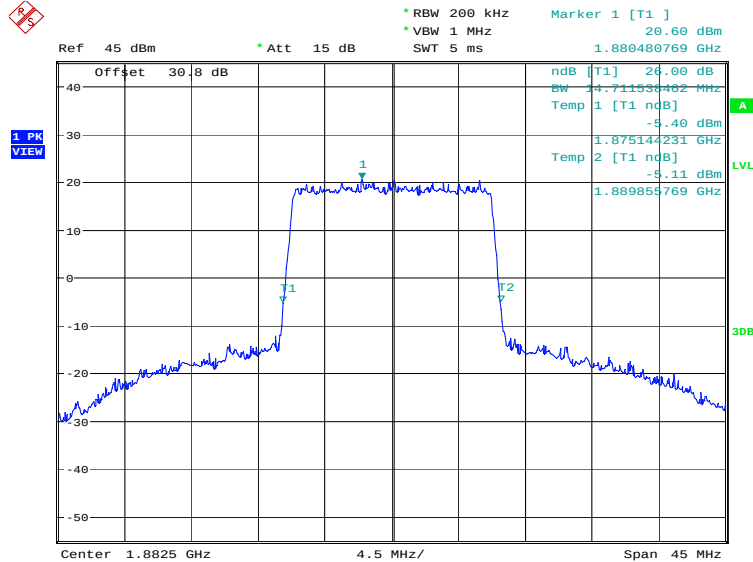


Date: 5.DEC.2023 11:15:36

LTE band 25, 15MHz (-26dBc)

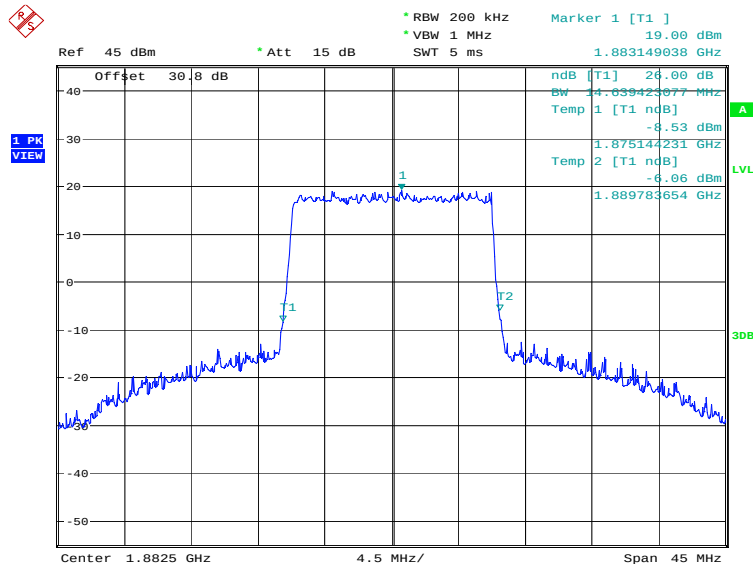
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	14711.54	14639.42

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



Date: 5.DEC.2023 11:16:18

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

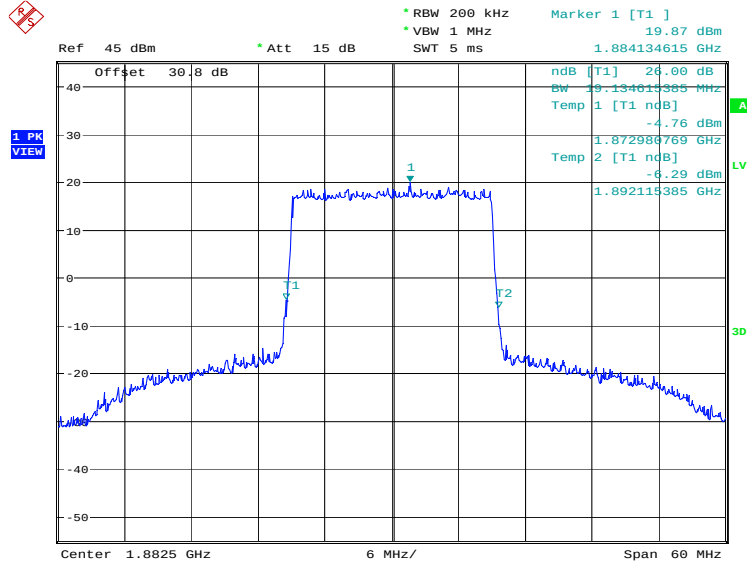


Date: 5.DEC.2023 11:16:58

LTE band 25, 20MHz (-26dBc)

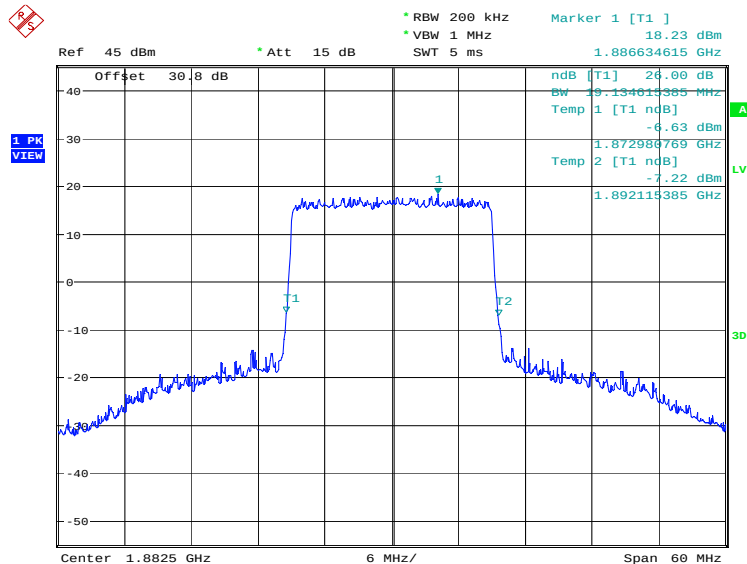
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	19134.62	19134.62

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



Date: 5.DEC.2023 11:17:41

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

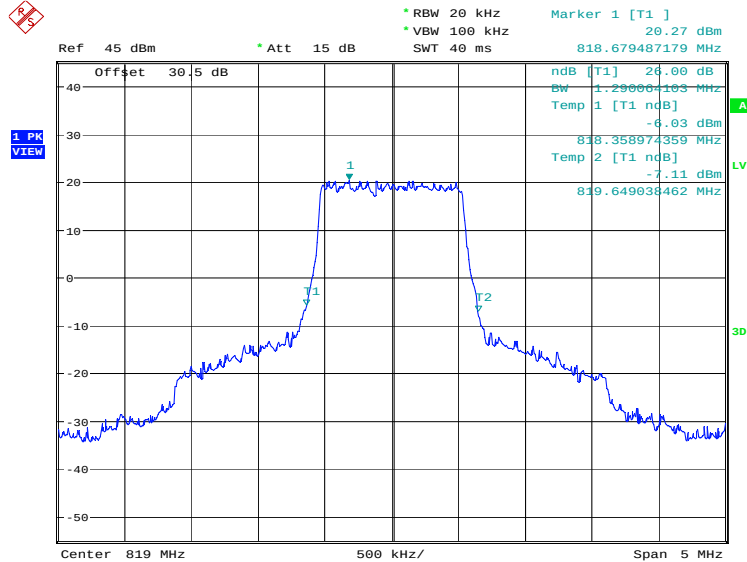


Date: 5.DEC.2023 11:18:21

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

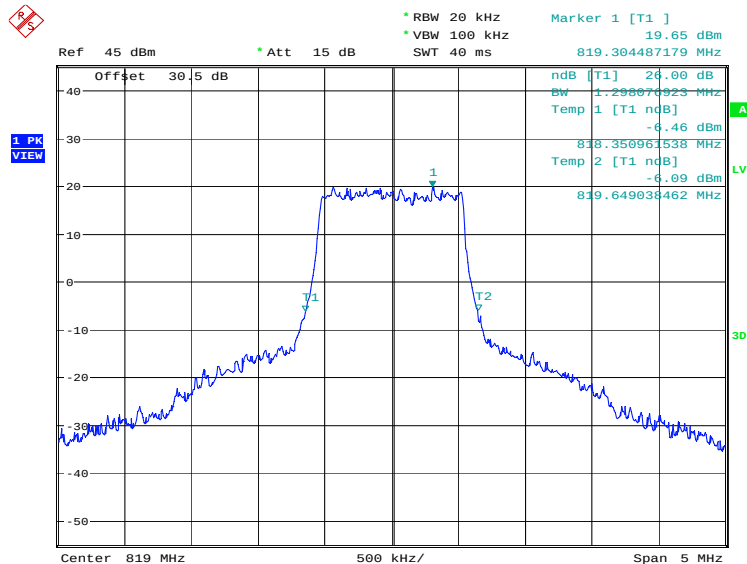
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	1290.06	1298.08

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



Date: 5.DEC.2023 13:13:52

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

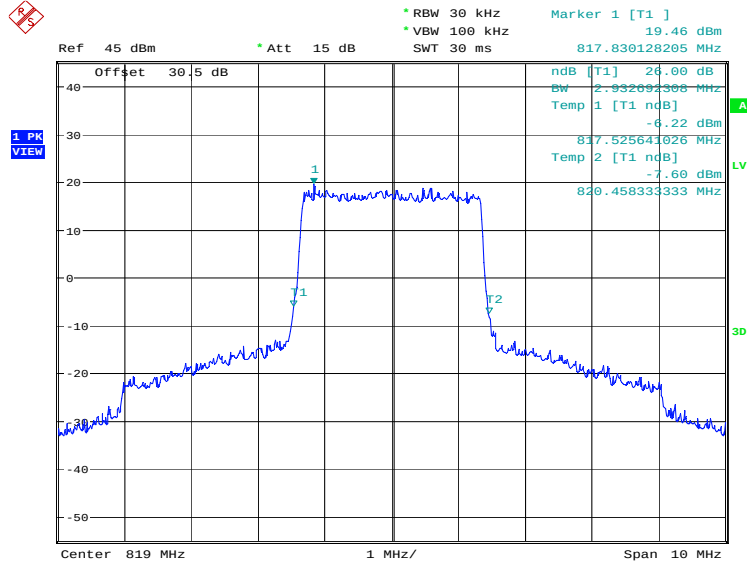


Date: 5.DEC.2023 13:14:32

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

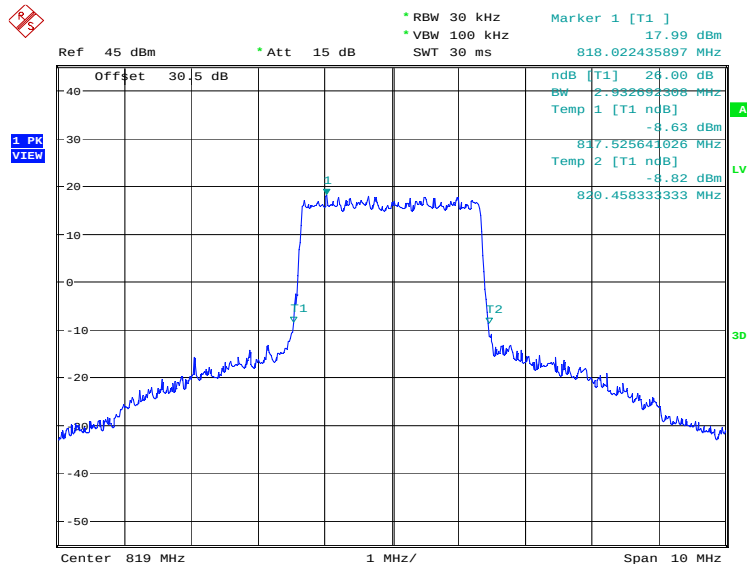
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	2932.69	2932.69

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



Date: 5.DEC.2023 13:15:15

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

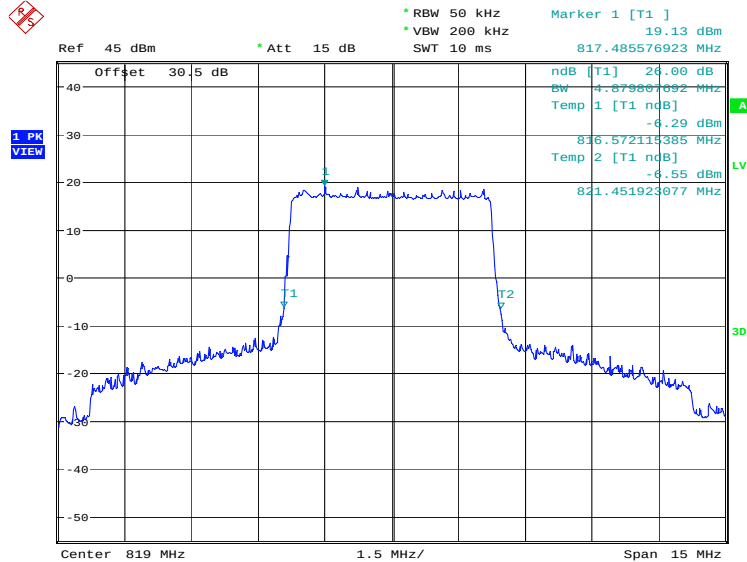


Date: 5.DEC.2023 13:15:55

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

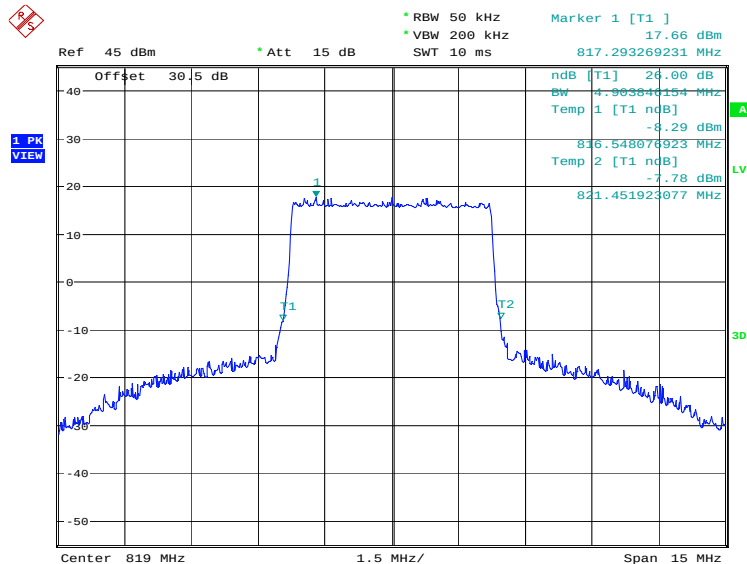
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	4879.81	4903.85

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



Date: 5.DEC.2023 13:16:38

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

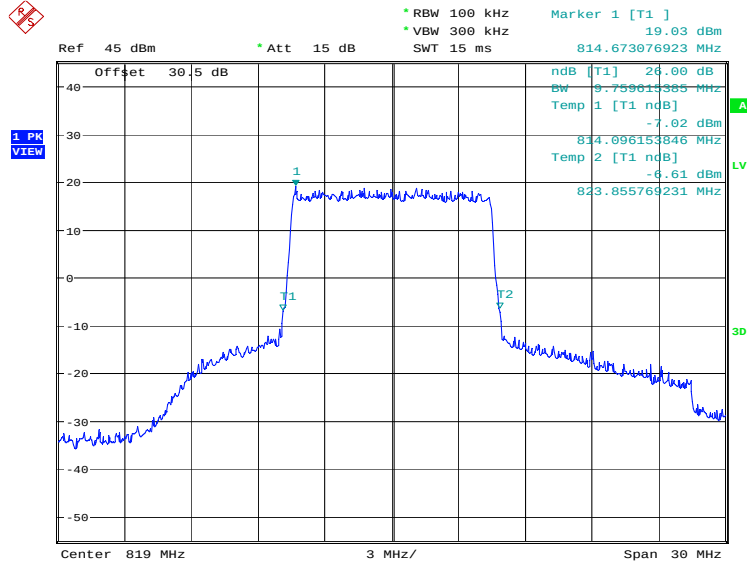


Date: 5.DEC.2023 13:17:19

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

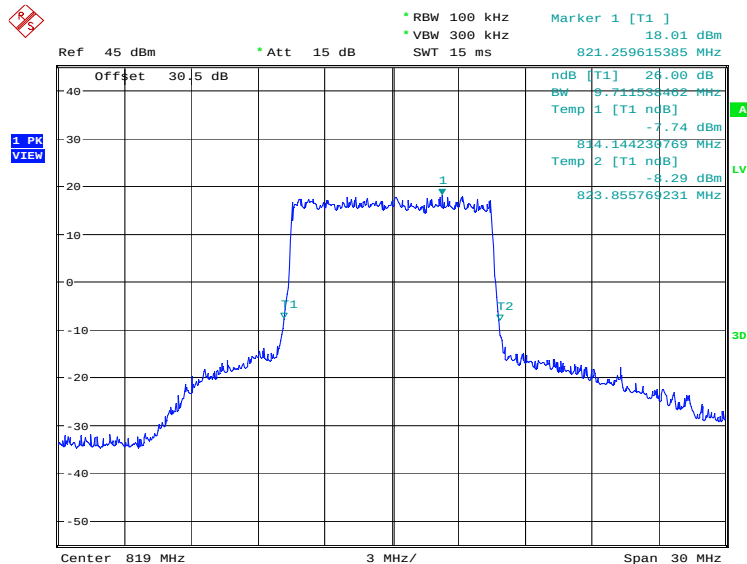
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	9759.62	9711.54

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



Date: 5.DEC.2023 13:18:02

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

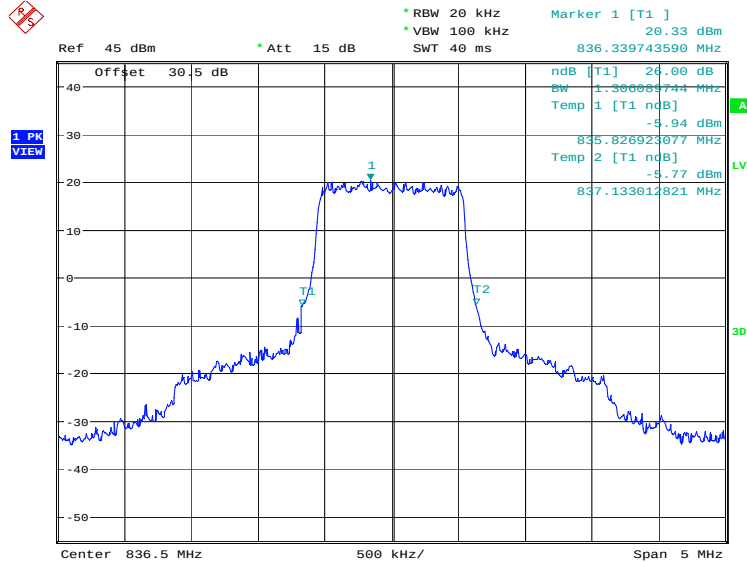


Date: 5.DEC.2023 13:18:42

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

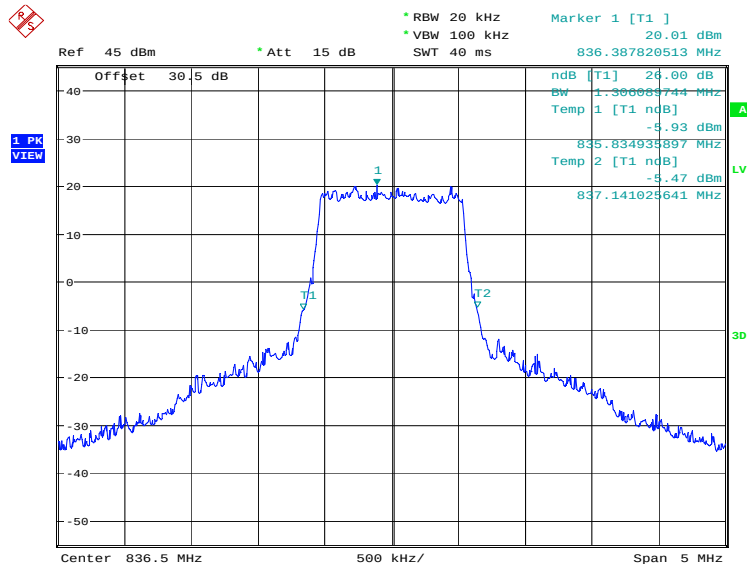
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	1306.09	1306.09

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



Date: 5.DEC.2023 13:05:07

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

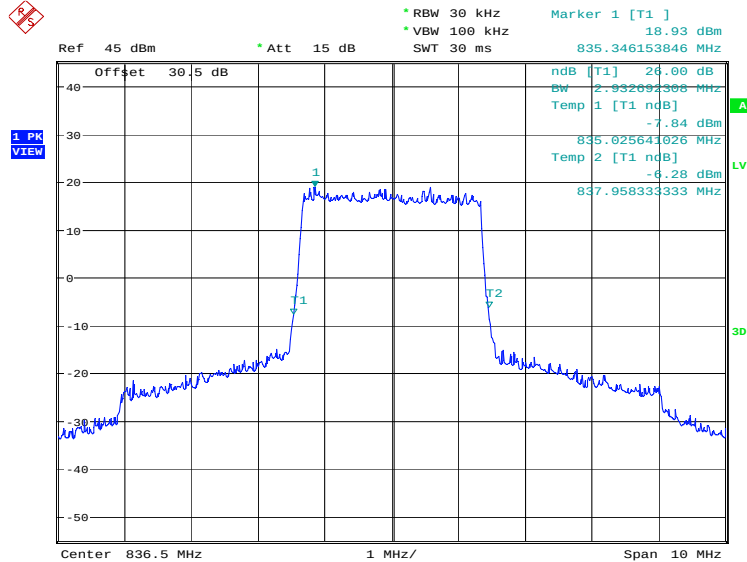


Date: 5.DEC.2023 13:05:47

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

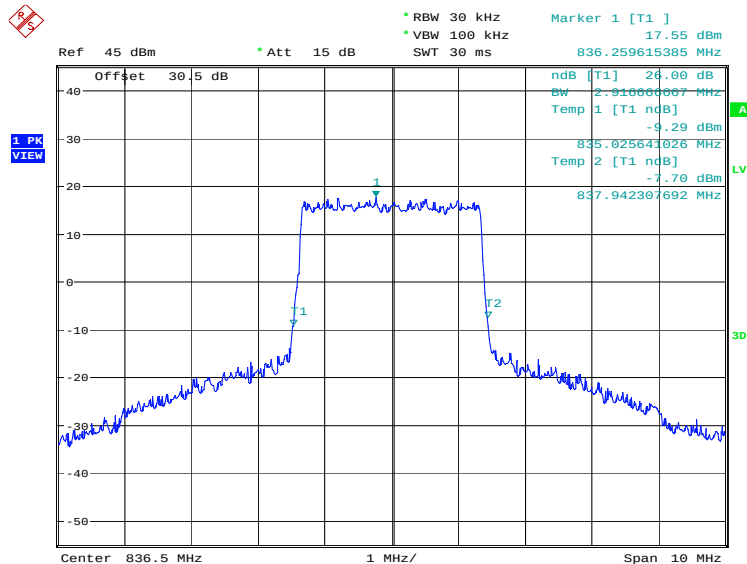
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	2932.69	2916.67

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



Date: 5.DEC.2023 13:06:30

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

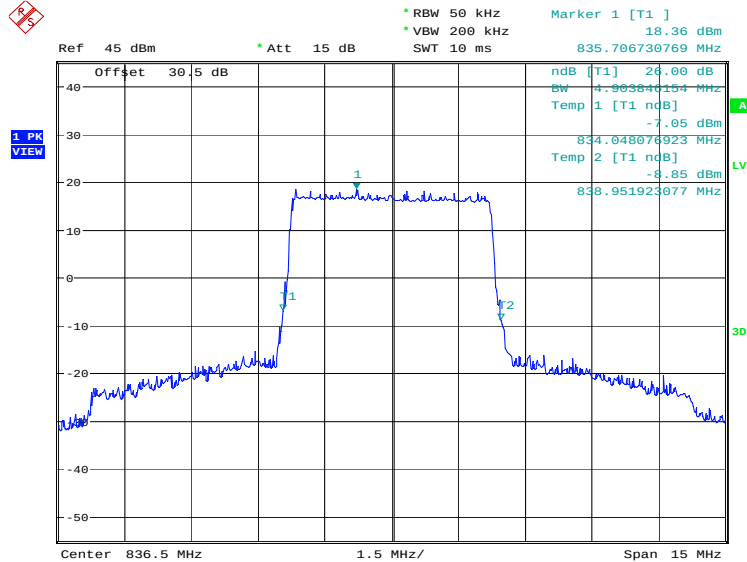


Date: 5.DEC.2023 13:07:10

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

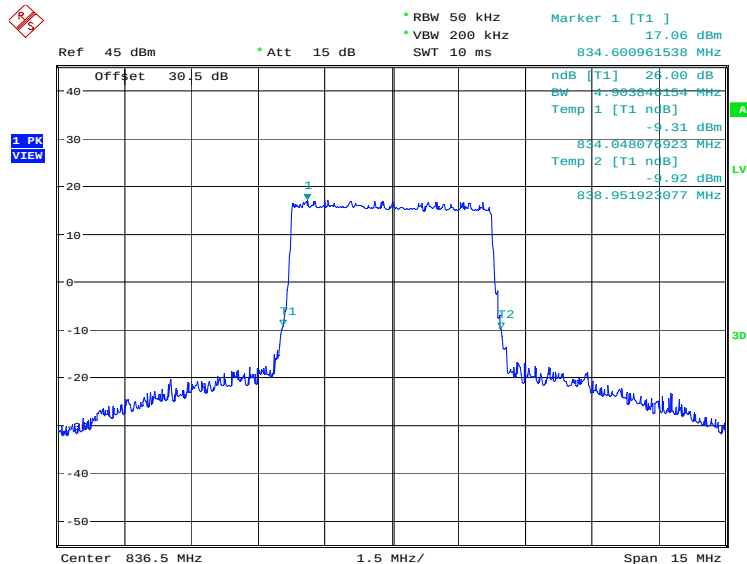
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	4903.85	4903.85

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



Date: 5.DEC.2023 13:07:53

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

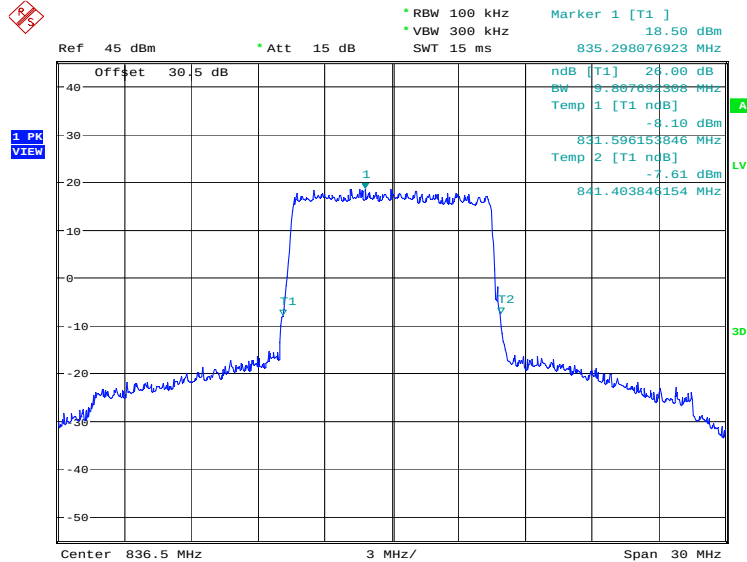


Date: 5.DEC.2023 13:08:34

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

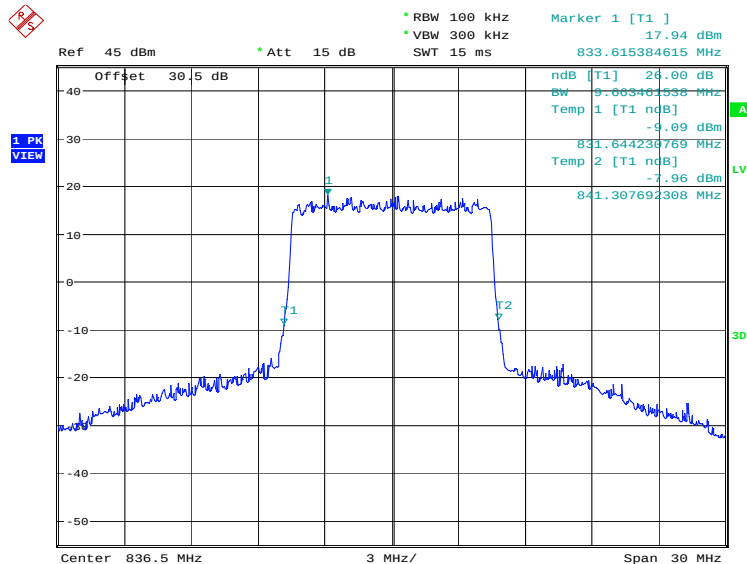
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	9807.69	9663.46

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



Date: 5.DEC.2023 13:09:16

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

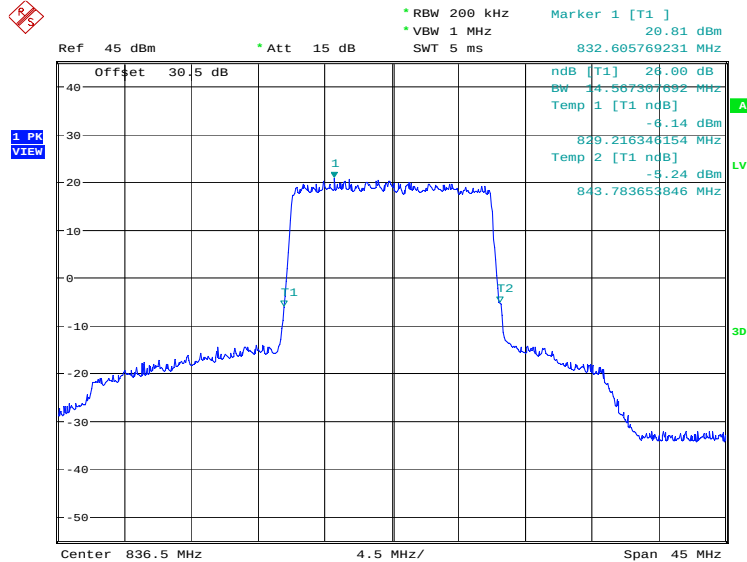


Date: 5.DEC.2023 13:09:57

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

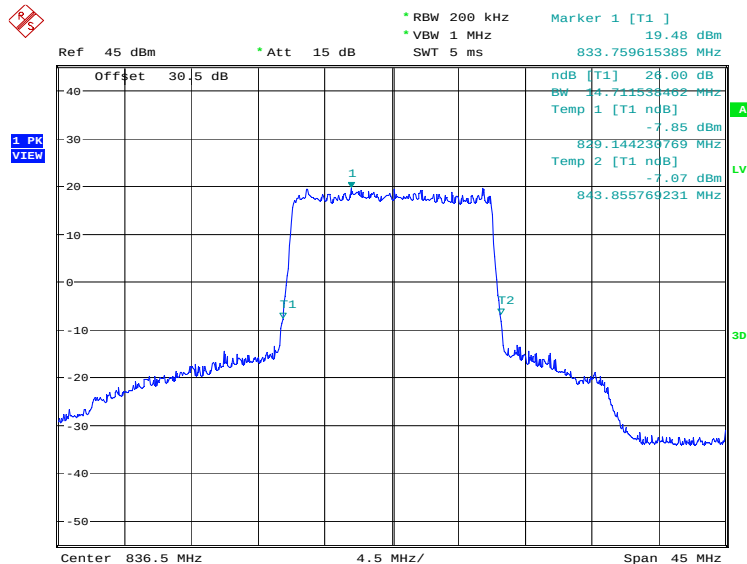
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	14567.31	14711.54

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



Date: 5.DEC.2023 13:11:35

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

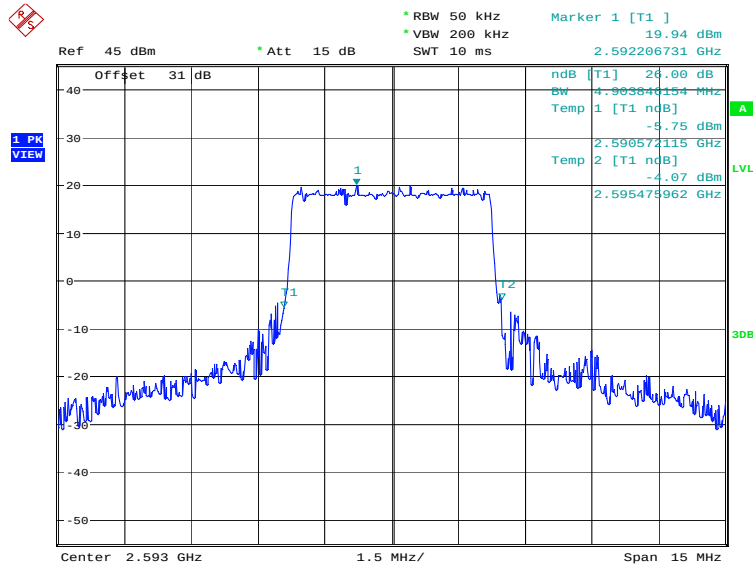


Date: 5.DEC.2023 13:12:15

LTE band 41, 5MHz (-26dBc)

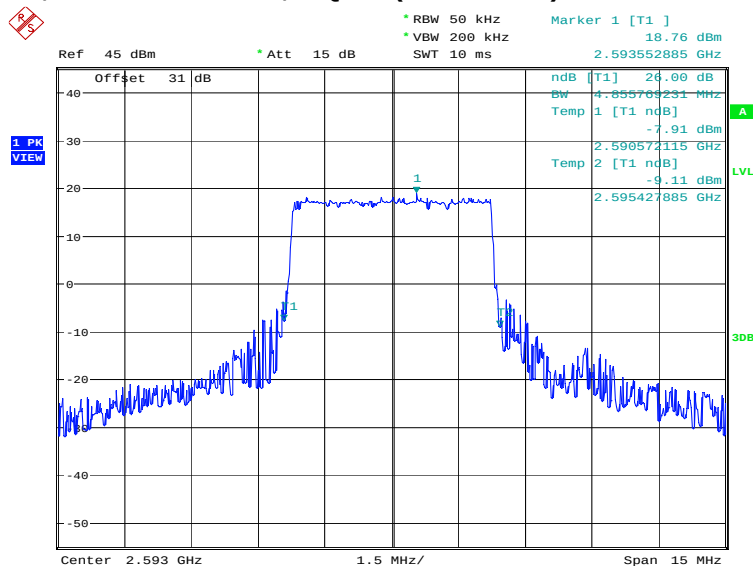
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	4903.85	4855.77

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



Date: 5.DEC.2023 13:43:50

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

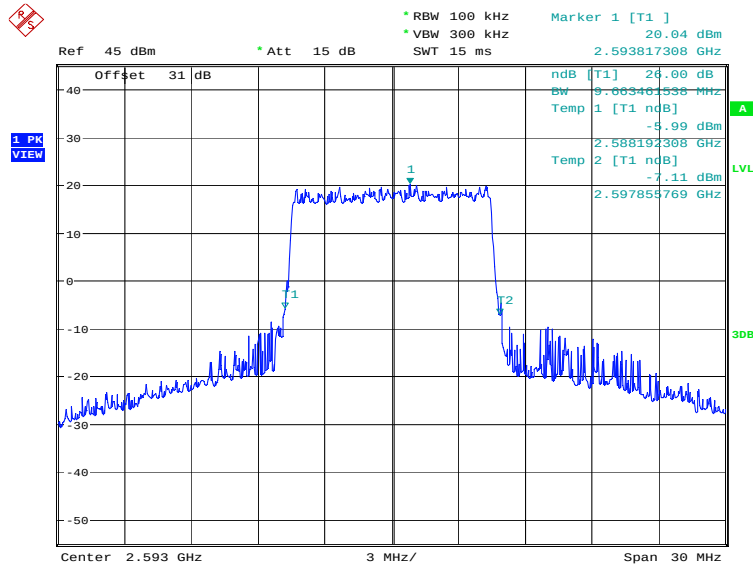


Date: 5.DEC.2023 13:44:30

LTE band 41, 10MHz (-26dBc)

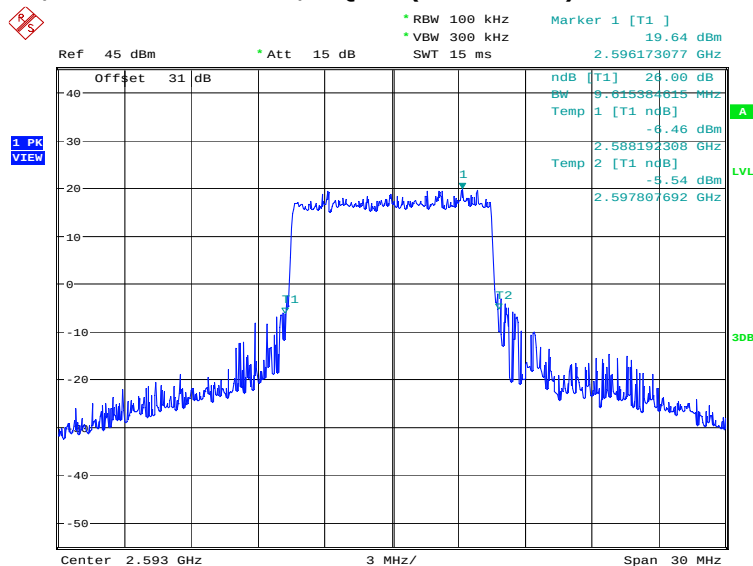
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	9663.46	9615.38

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



Date: 5.DEC.2023 13:45:12

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

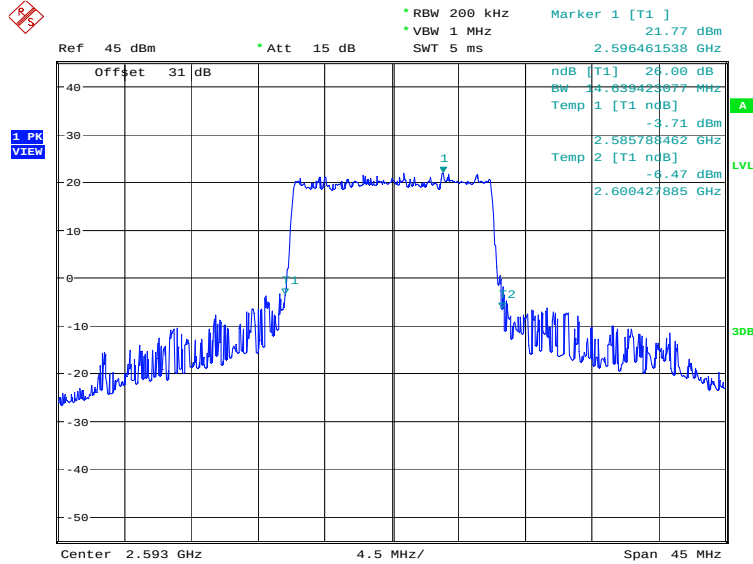


Date: 5.DEC.2023 13:45:52

LTE band 41, 15MHz (-26dBc)

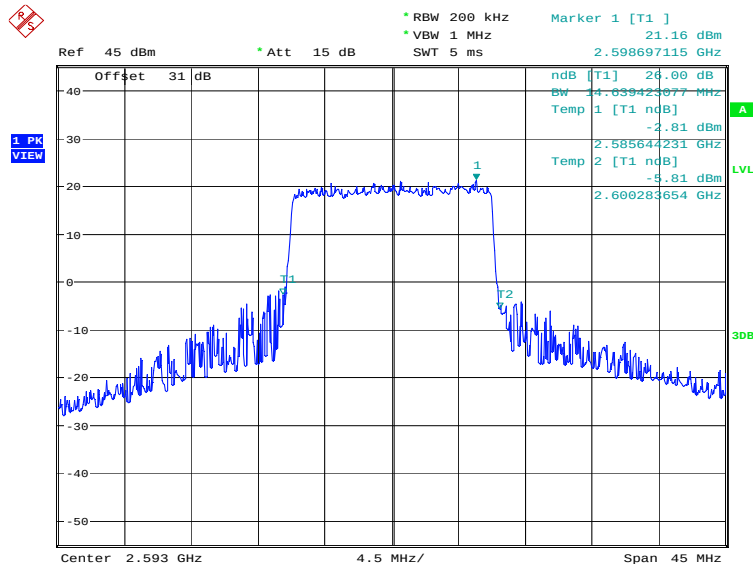
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	14639.42	14639.42

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



Date: 5.DEC.2023 13:46:34

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

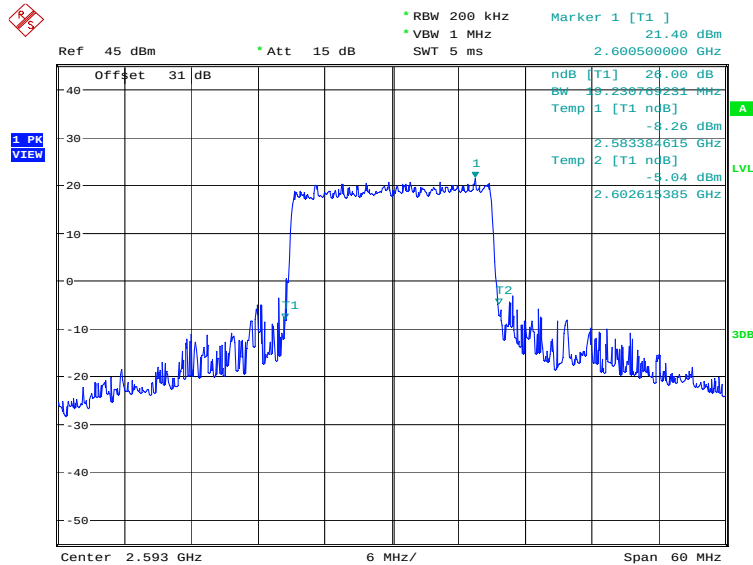


Date: 5.DEC.2023 13:47:15

LTE band 41, 20MHz (-26dBc)

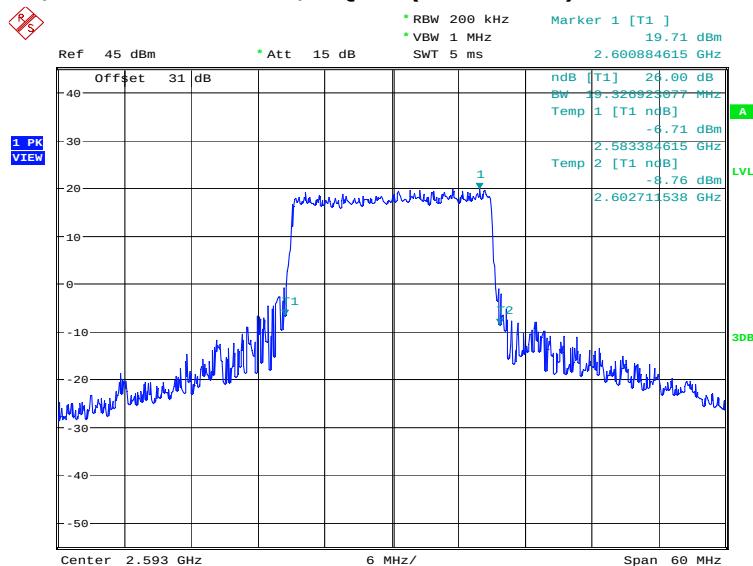
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	19230.77	19326.92

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



Date: 5.DEC.2023 13:47:57

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

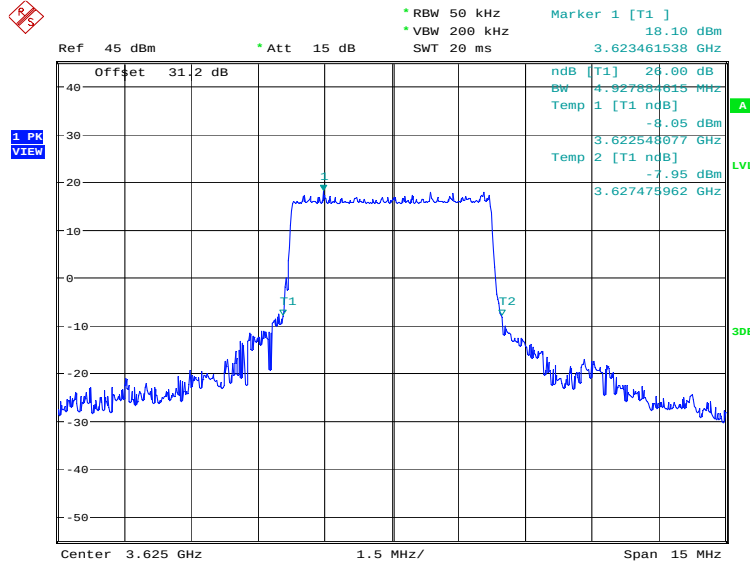


Date: 5.DEC.2023 13:48:37

LTE band 48, 5MHz (-26dBc)

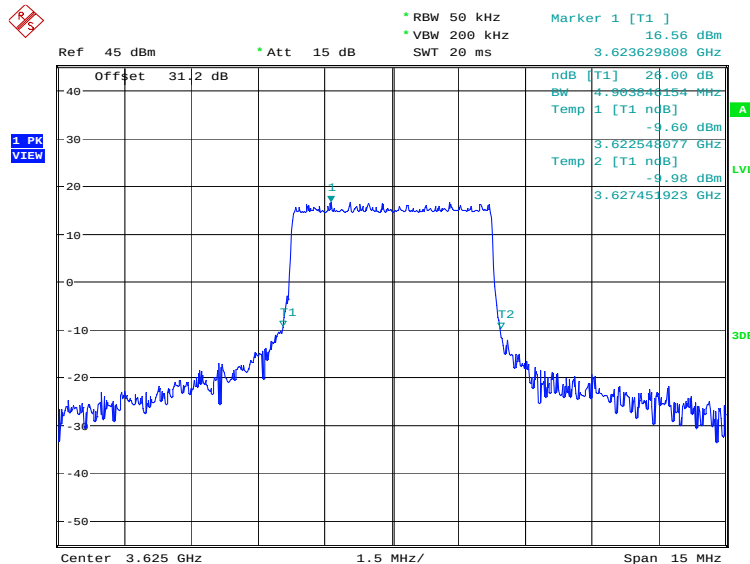
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
3625.0	QPSK	16QAM
	4927.88	4903.85

LTE band 48, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 5.DEC.2023 11:28:04

LTE band 48, 5MHz Bandwidth,16QAM (-26dBc BW)

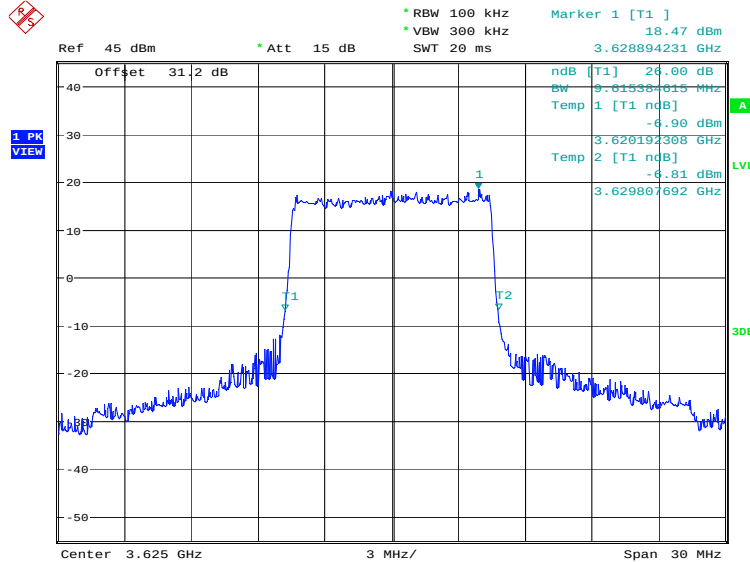


Date: 5.DEC.2023 11:28:45

LTE band 48, 10MHz (-26dBc)

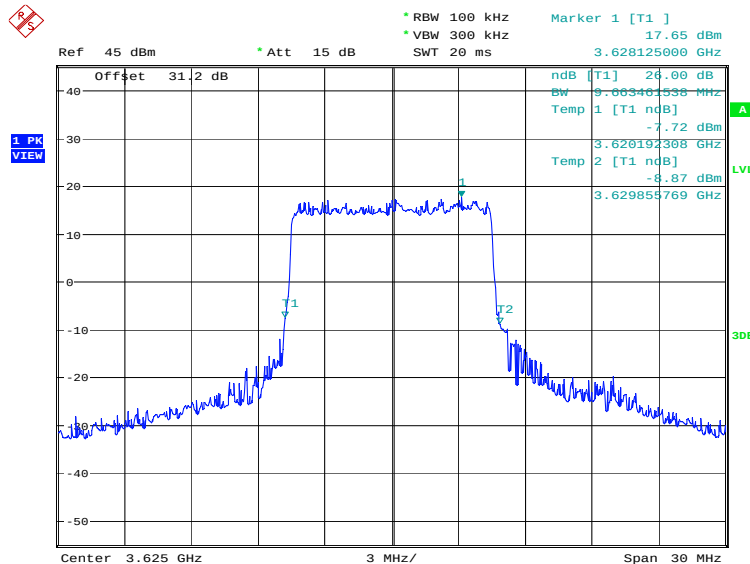
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
3625.0	QPSK	16QAM
	9615.38	9663.46

LTE band 48, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 5.DEC.2023 11:29:27

LTE band 48, 10MHz Bandwidth,16QAM (-26dBc BW)

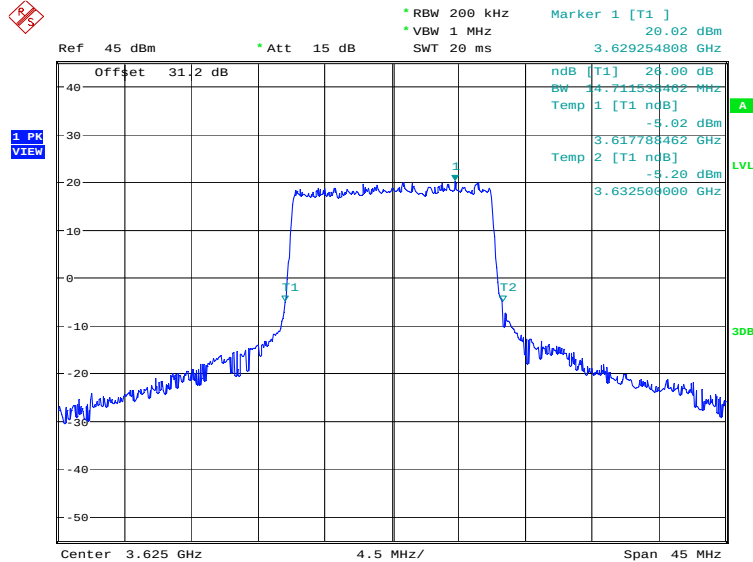


Date: 5.DEC.2023 11:30:07

LTE band 48, 15MHz (-26dBc)

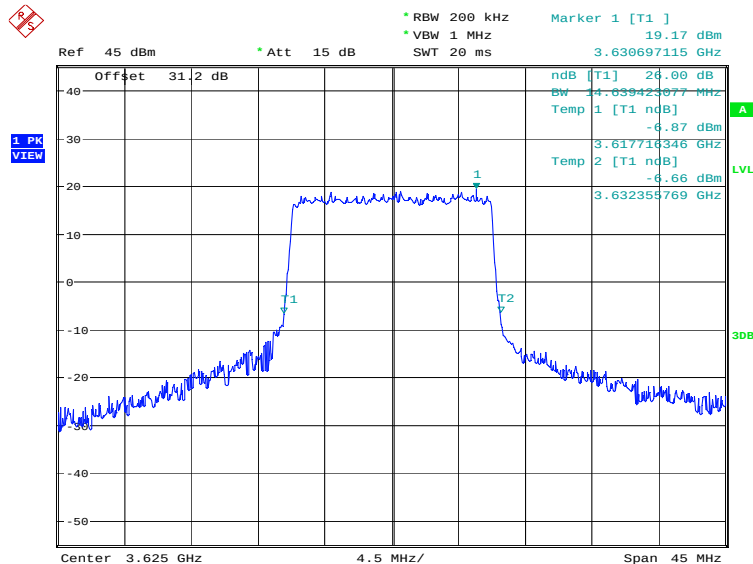
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
3625.0	QPSK	16QAM
	14711.54	14639.42

LTE band 48, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 5.DEC.2023 11:30:50

LTE band 48, 15MHz Bandwidth, 16QAM (-26dBc BW)

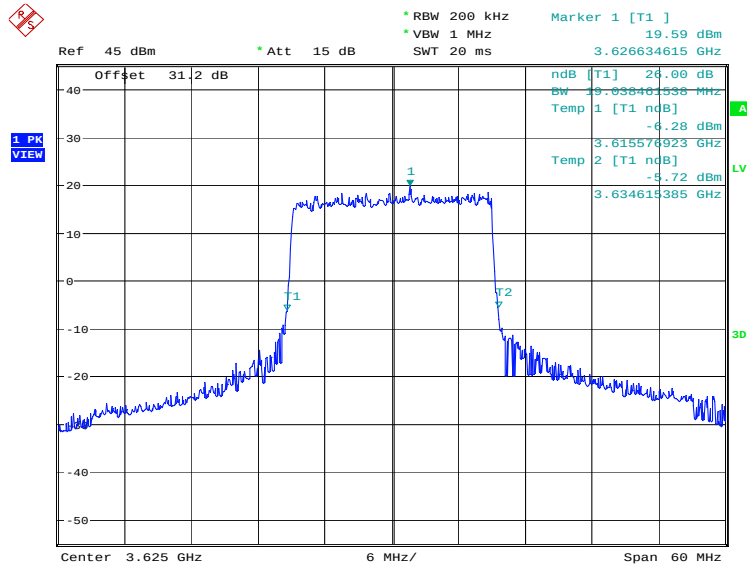


Date: 5.DEC.2023 11:31:30

LTE band 48, 20MHz (-26dBc)

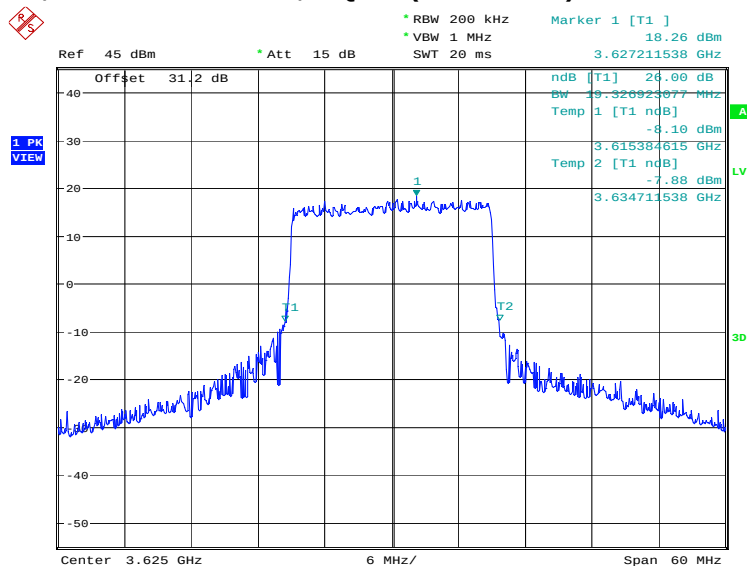
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
3625.0	QPSK	16QAM
	19038.46	19326.92

LTE band 48, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 5.DEC.2023 11:32:13

LTE band 48, 20MHz Bandwidth,16QAM (-26dBc BW)

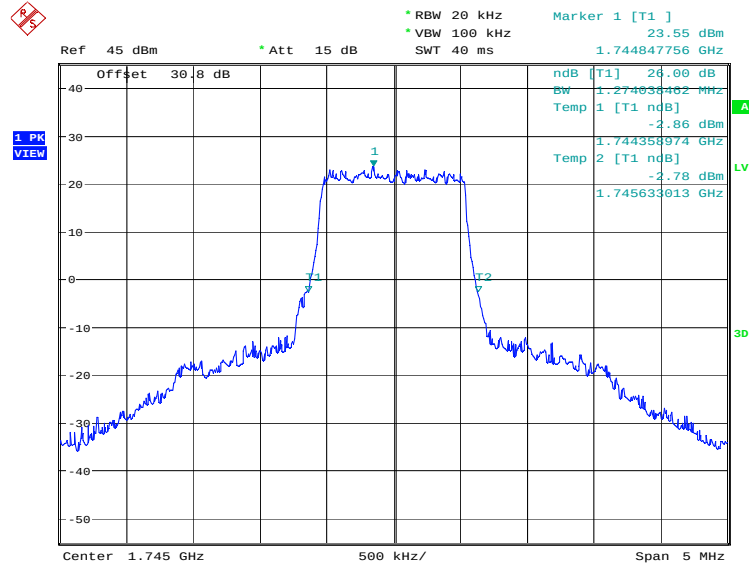


Date: 5.DEC.2023 11:32:53

LTE band 66, 1.4MHz (-26dBc)

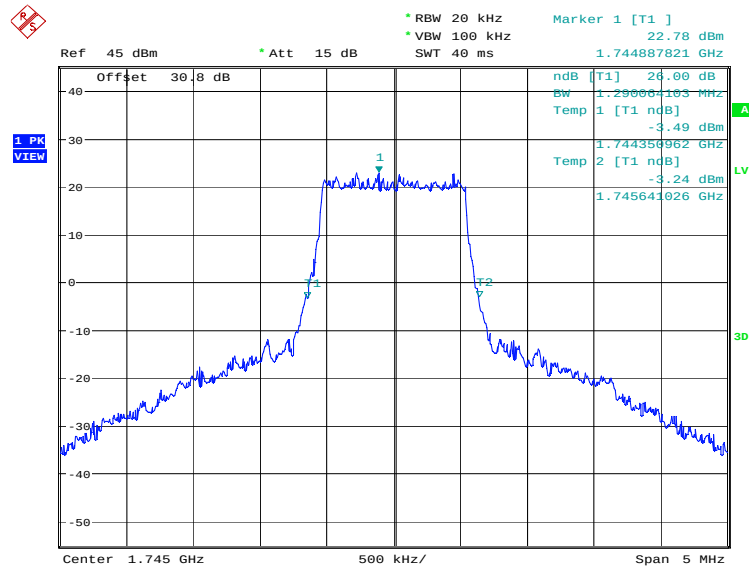
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	1274.04	1290.06

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



Date: 5.DEC.2023 11:19:05

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

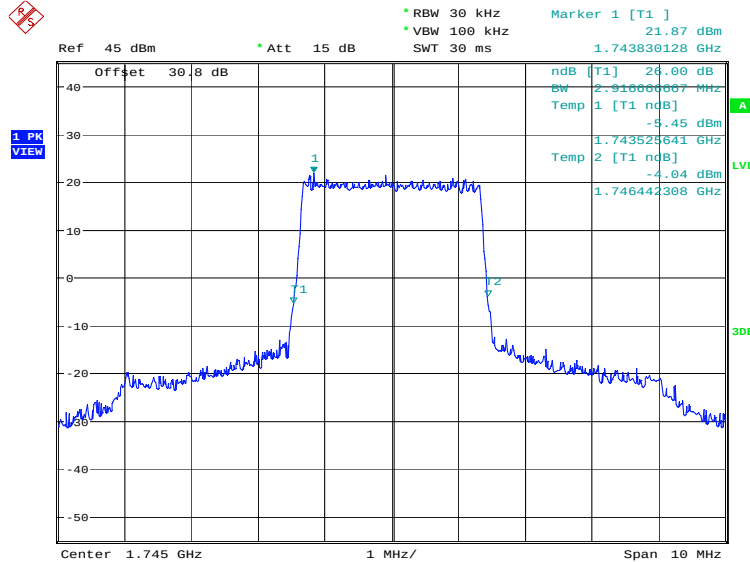


Date: 5.DEC.2023 11:19:45

LTE band 66, 3MHz (-26dBc)

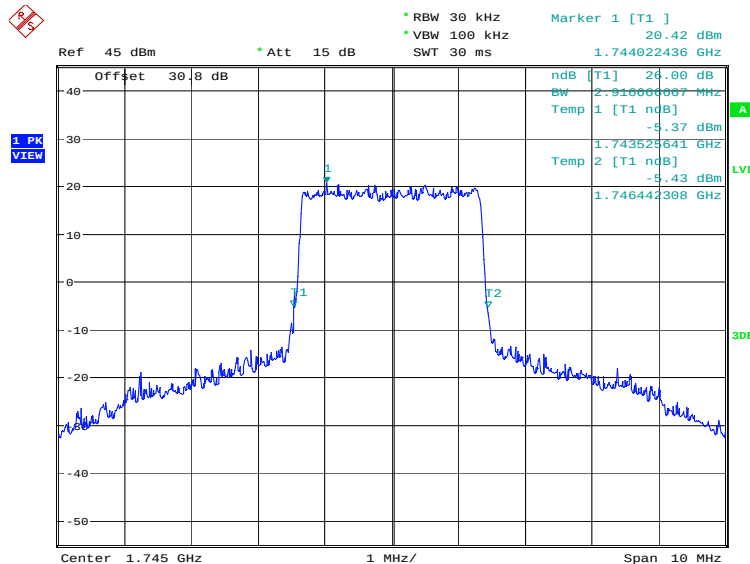
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	2916.67	2916.67

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



Date: 5.DEC.2023 11:20:27

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

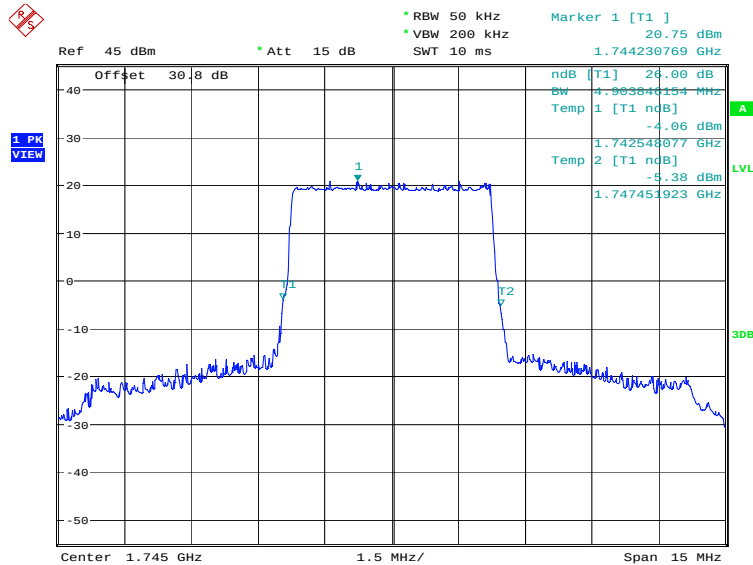


Date: 5.DEC.2023 11:21:07

LTE band 66, 5MHz (-26dBc)

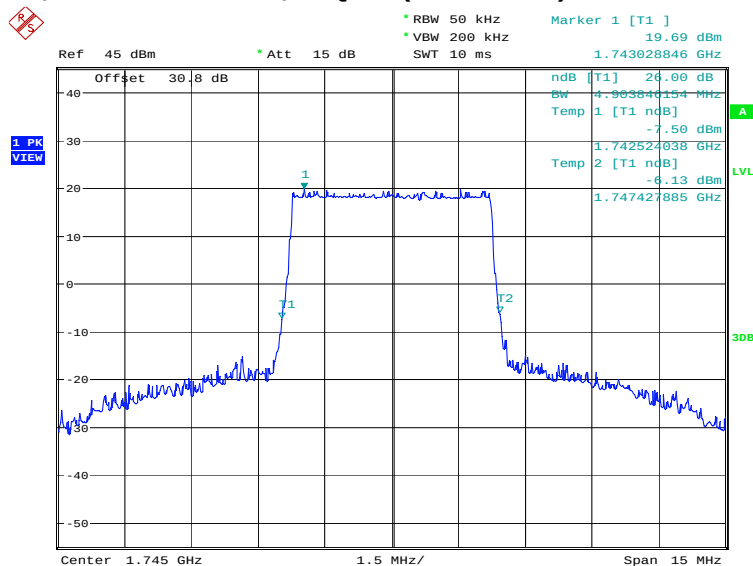
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	4903.85	4903.85

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



Date: 5.DEC.2023 11:21:49

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

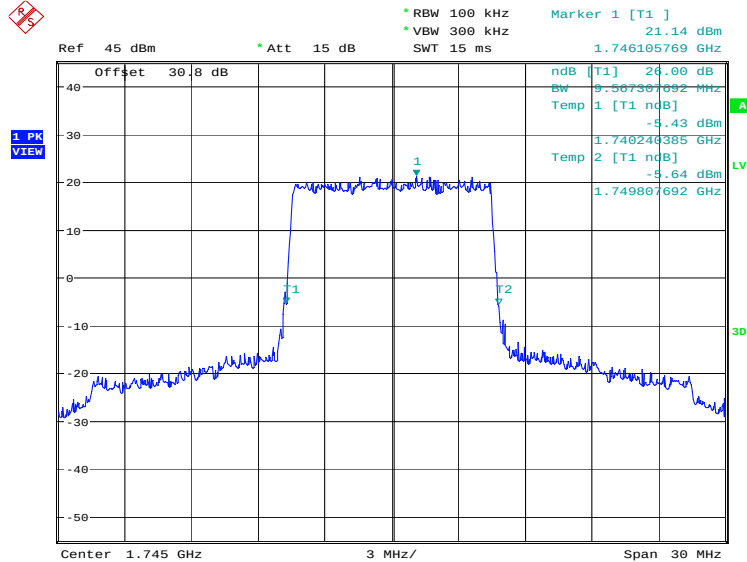


Date: 5.DEC.2023 11:22:30

LTE band 66, 10MHz (-26dBc)

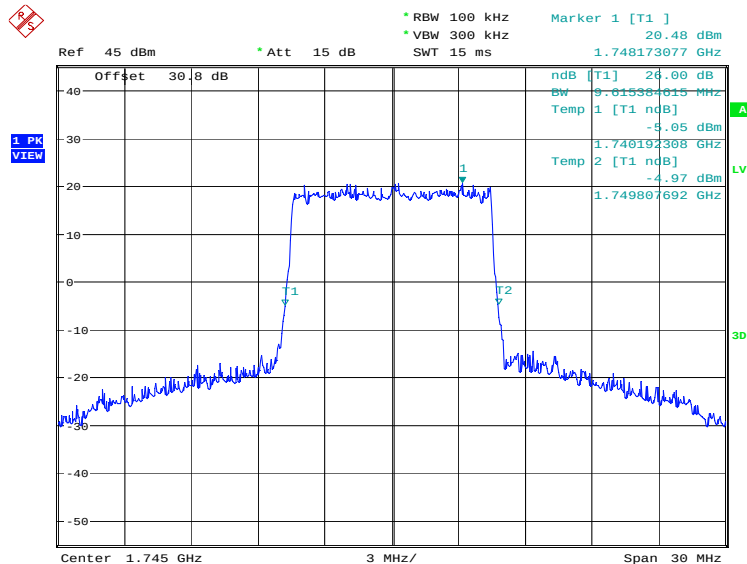
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	9567.31	9615.38

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



Date: 5.DEC.2023 11:23:12

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

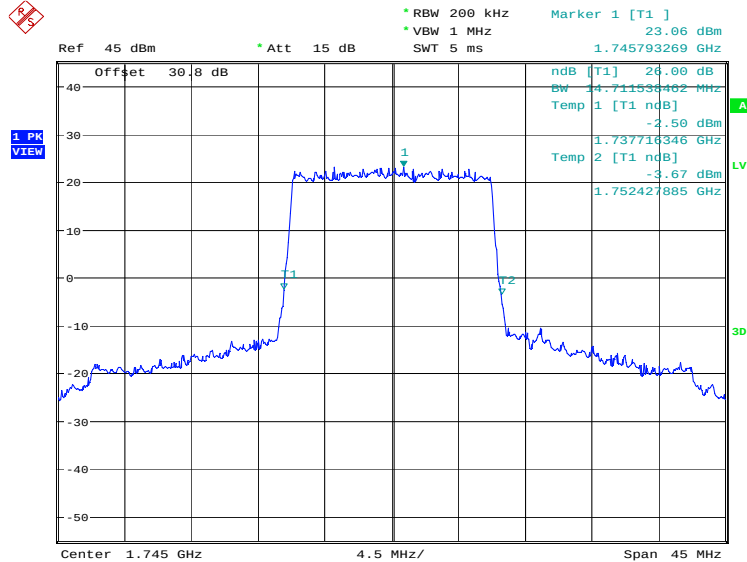


Date: 5.DEC.2023 11:23:52

LTE band 66, 15MHz (-26dBc)

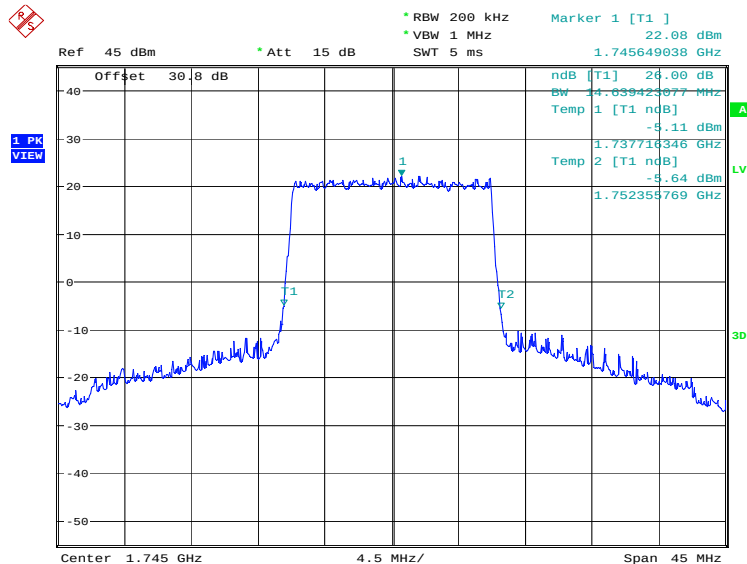
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	14711.54	14639.42

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



Date: 5.DEC.2023 11:24:34

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

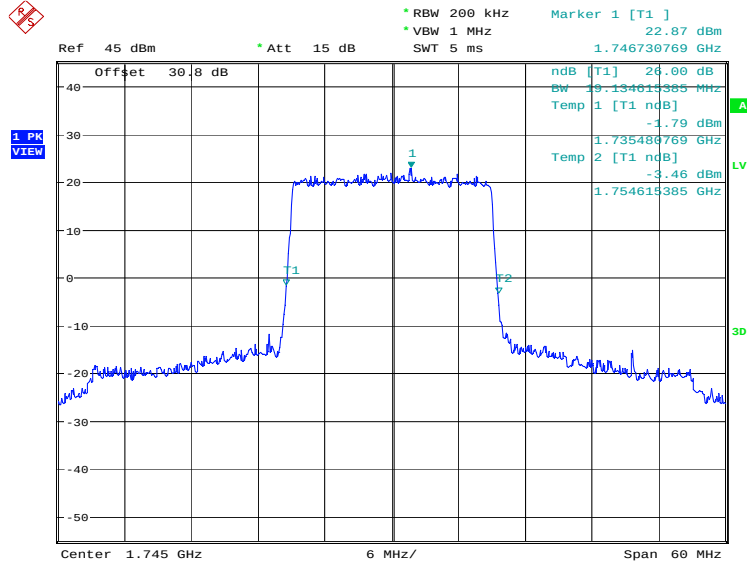


Date: 5.DEC.2023 11:25:15

LTE band 66, 20MHz (-26dBc)

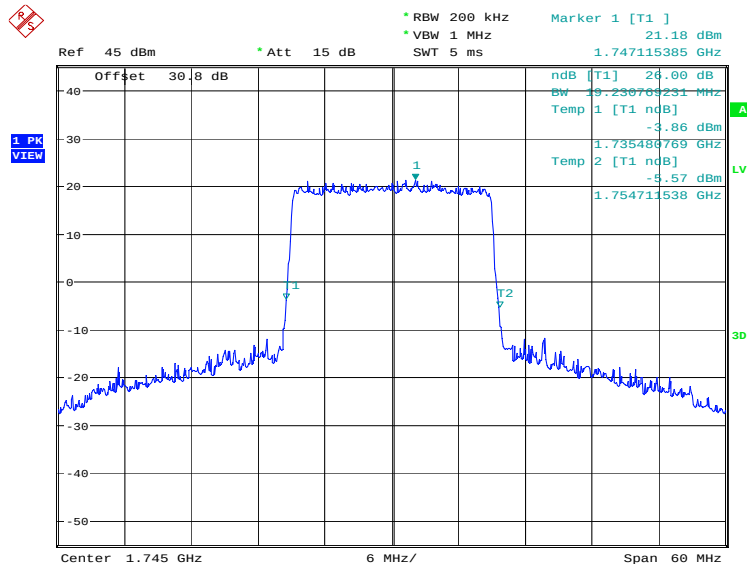
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	19134.62	19230.77

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



Date: 5.DEC.2023 11:25:57

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

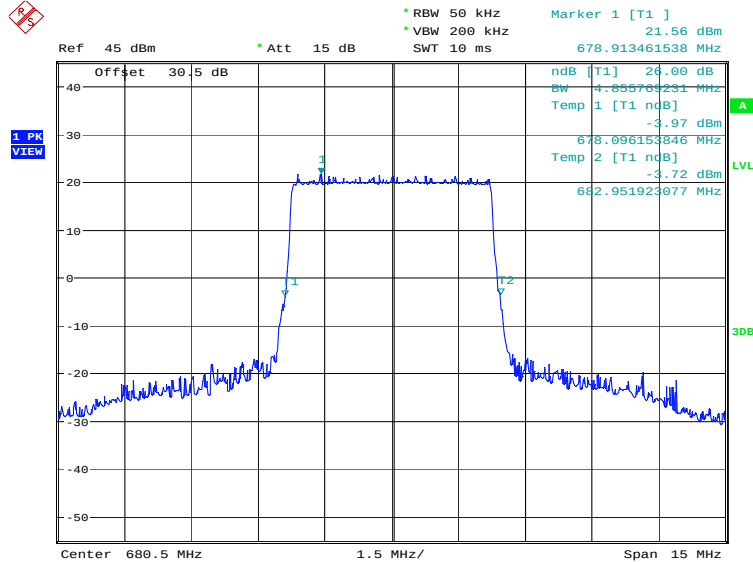


Date: 5.DEC.2023 11:26:37

LTE band 71, 5MHz (-26dBc)

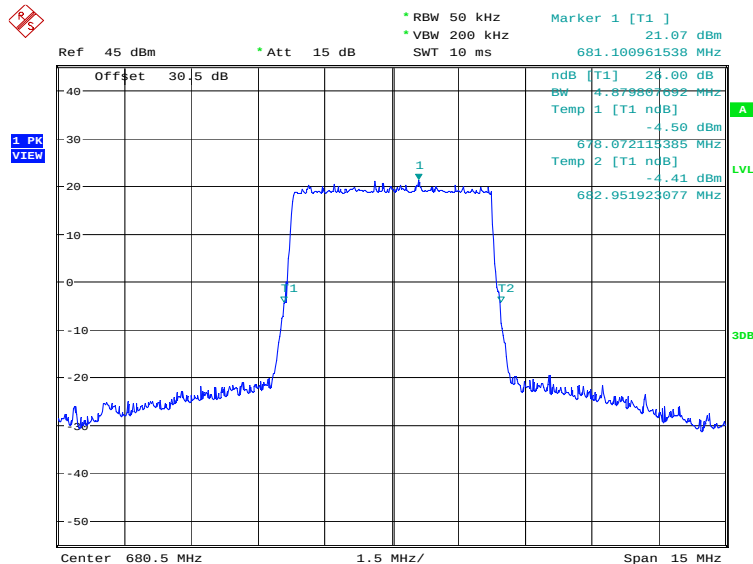
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	4855.77	4879.81

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



Date: 5.DEC.2023 12:50:11

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

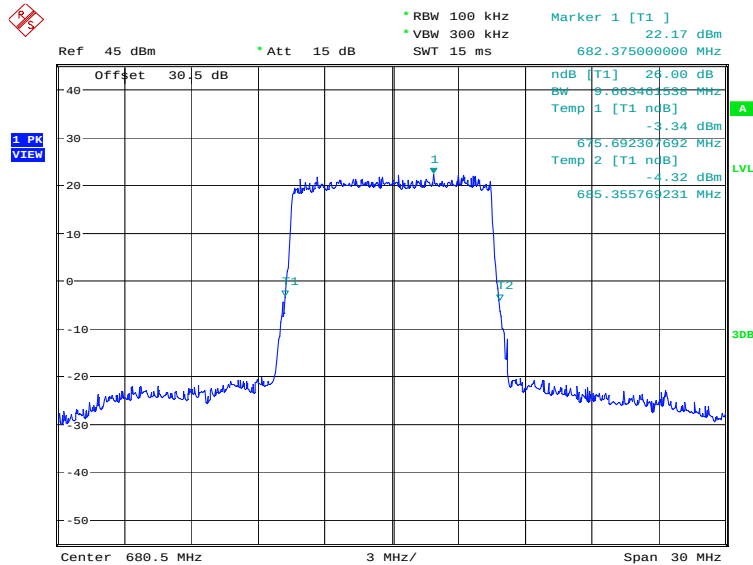


Date: 5.DEC.2023 12:50:51

LTE band 71, 10MHz (-26dBc)

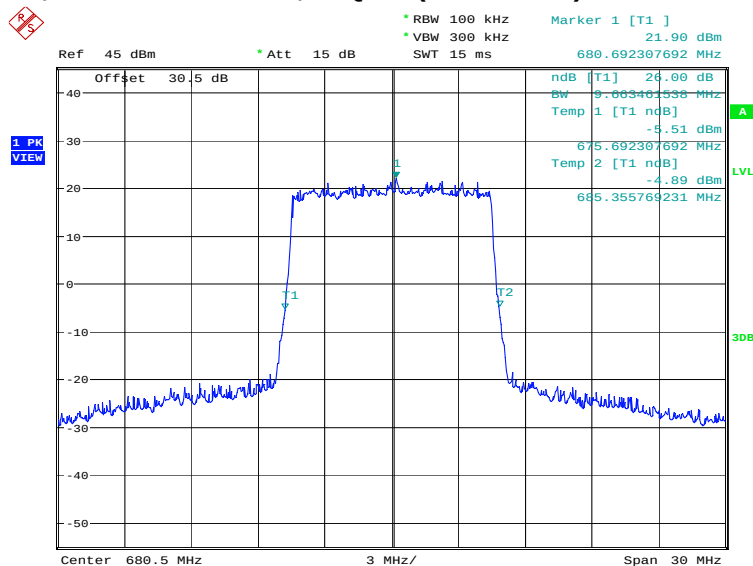
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	9663.46	9663.46

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



Date: 5.DEC.2023 12:51:33

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

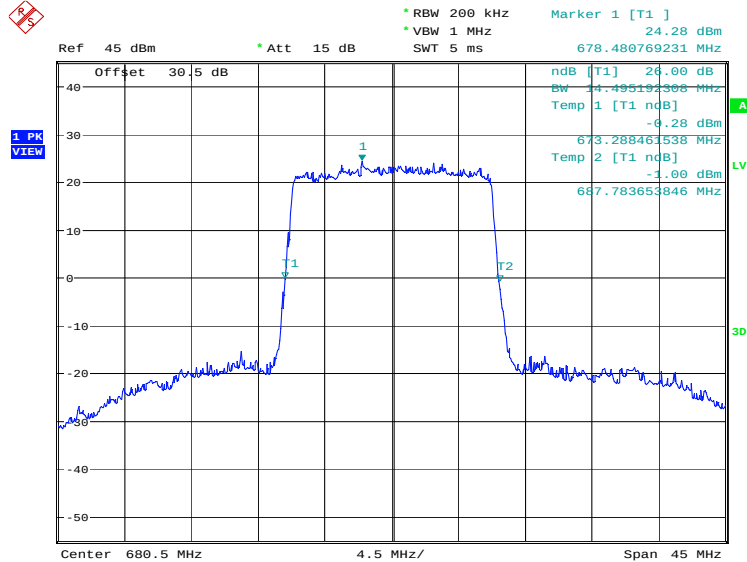


Date: 5.DEC.2023 12:52:13

LTE band 71, 15MHz (-26dBc)

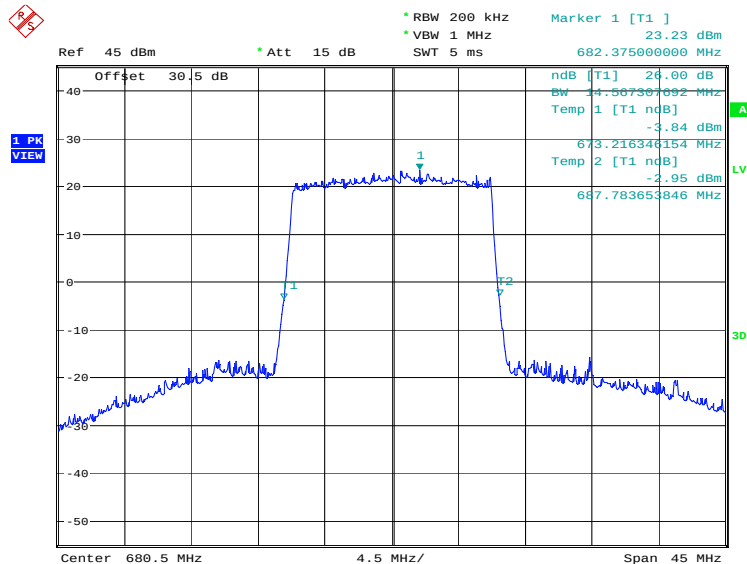
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	14495.19	14567.31

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



Date: 5.DEC.2023 12:52:56

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

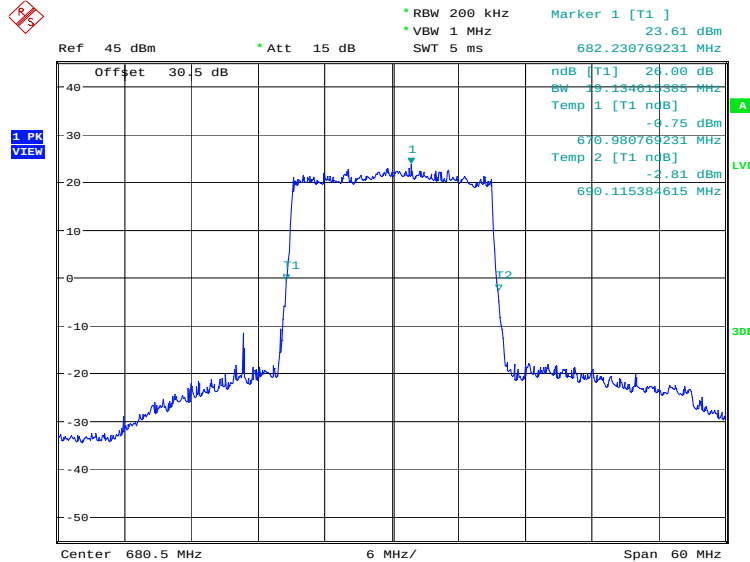


Date: 5.DEC.2023 12:53:36

LTE band 71, 20MHz (-26dBc)

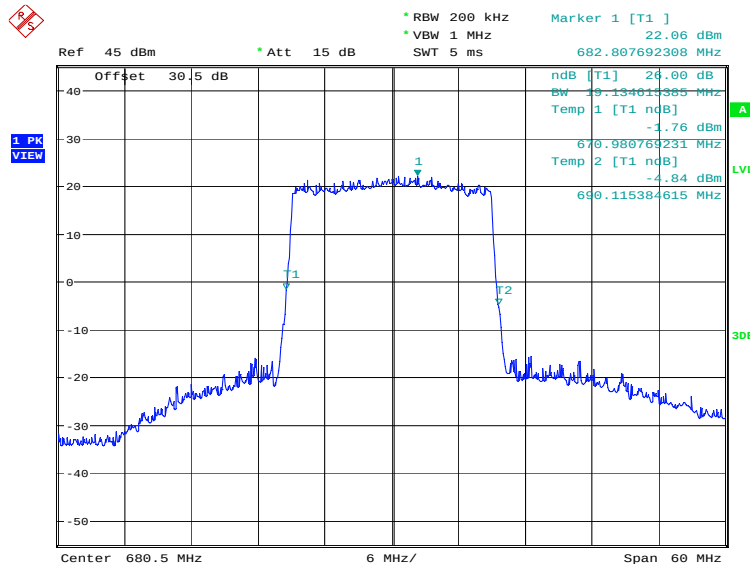
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	19134.62	19134.62

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



Date: 5.DEC.2023 12:54:18

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

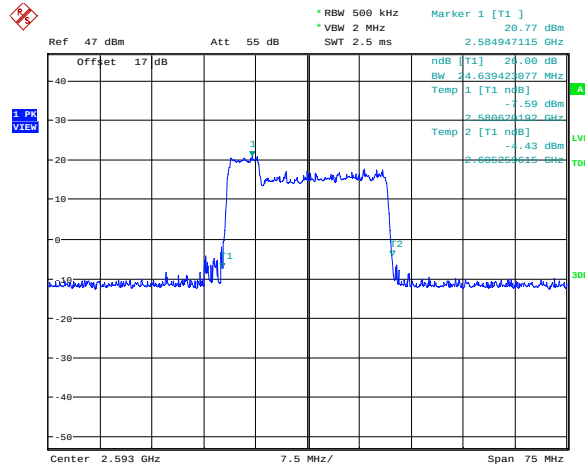


Date: 5.DEC.2023 12:54:58

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

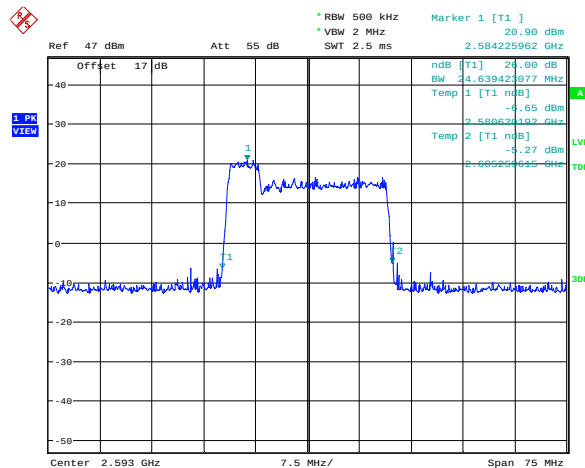
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	24.639	24.639

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



Date: 14.DEC.2023 10:55:42

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

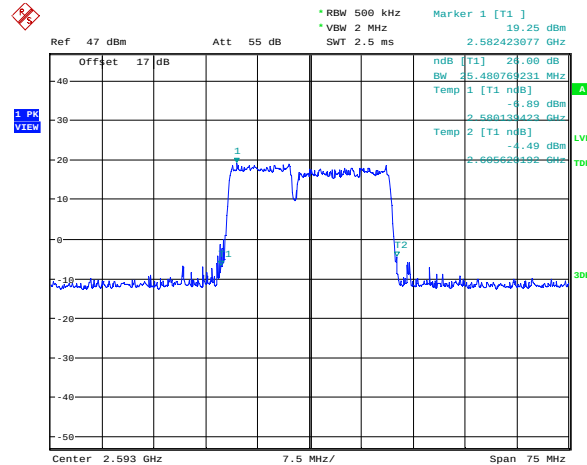


Date: 14.DEC.2023 10:56:03

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

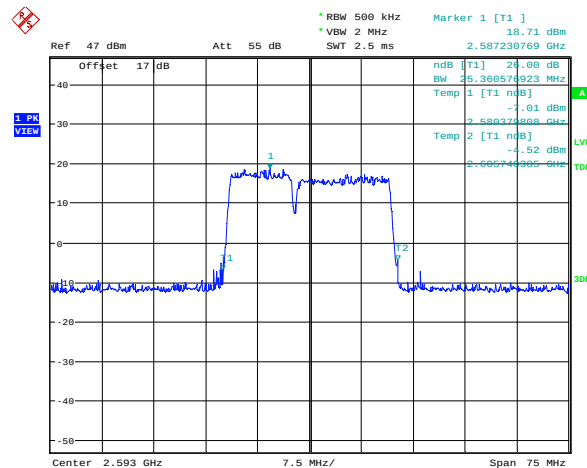
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	25.481	25.361

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



Date: 14.DEC.2023 10:56:56

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

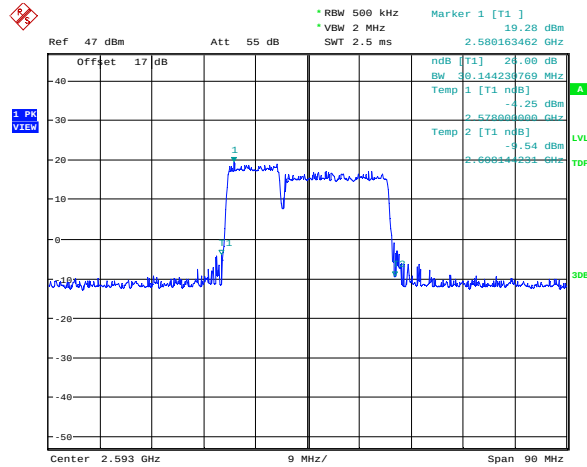


Date: 14.DEC.2023 10:57:18

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

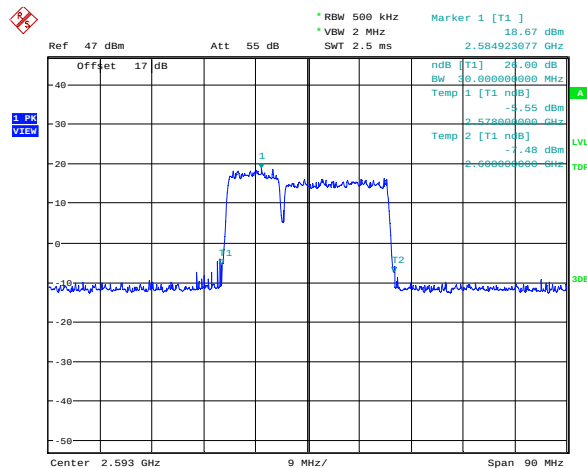
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	30.144	30.000

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



Date: 14.DEC.2023 10:58:10

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

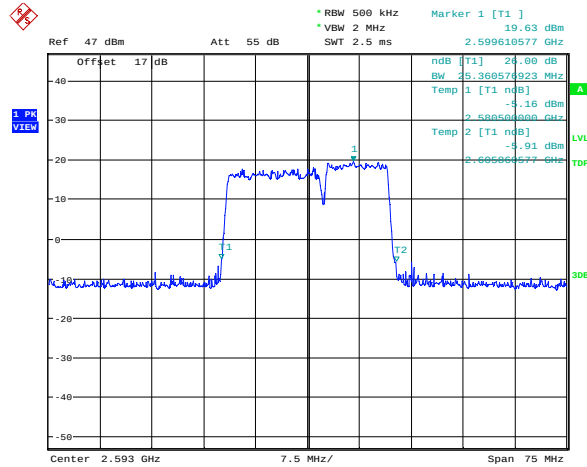


Date: 14.DEC.2023 10:58:31

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

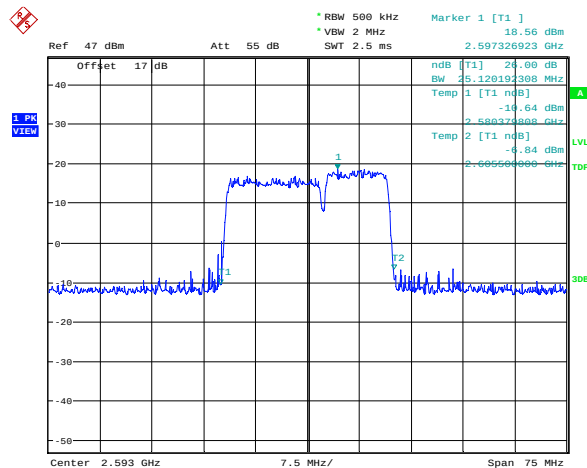
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	25.361	25.120

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



Date: 14.DEC.2023 10:59:51

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

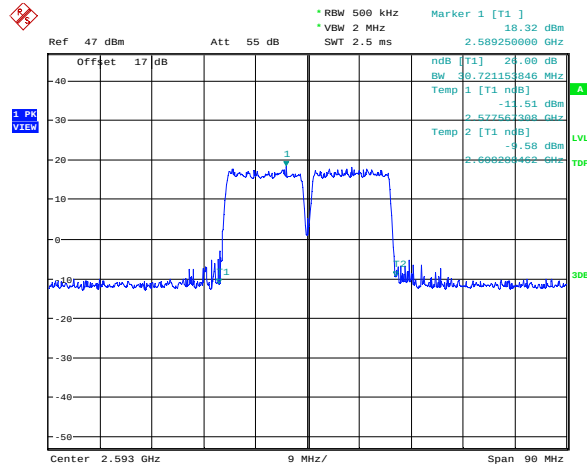


Date: 14.DEC.2023 11:00:21

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

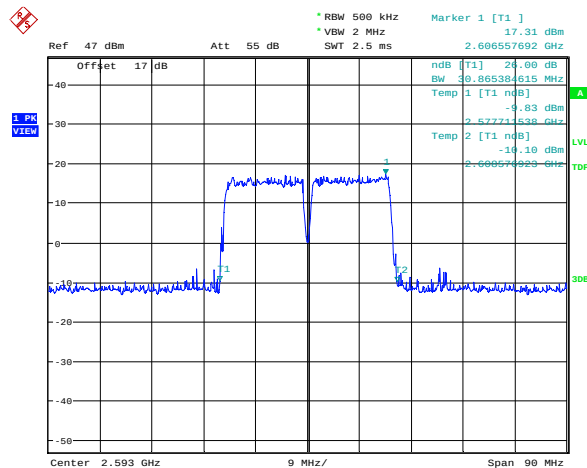
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	30.721	30.865

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



Date: 14.DEC.2023 11:01:19

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

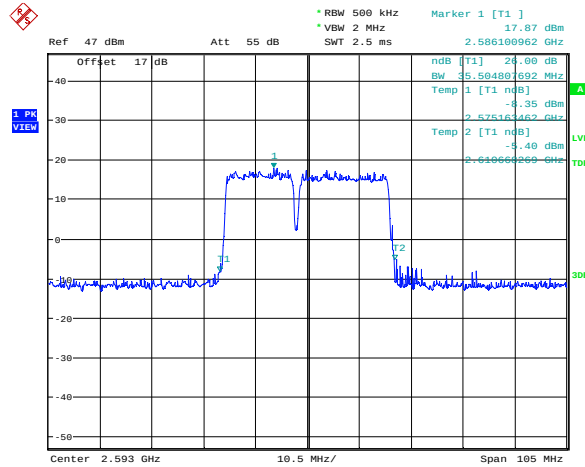


Date: 14.DEC.2023 11:01:42

LTE CA band 41C, 15MHz+20MHz(-26dBc)

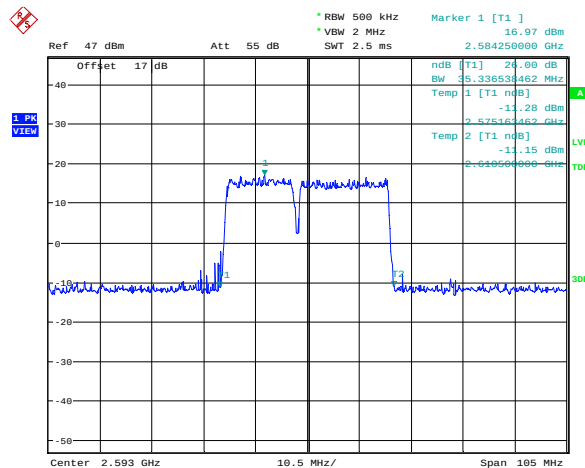
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	35.505	35.337

LTE CA band 41C , 15MHz+20MHz Bandwidth,QPSK (-26dBc BW)



Date: 14.DEC.2023 11:02:36

LTE CA band 41C , 15MHz+20MHz Bandwidth,16QAM (-26dBc BW)

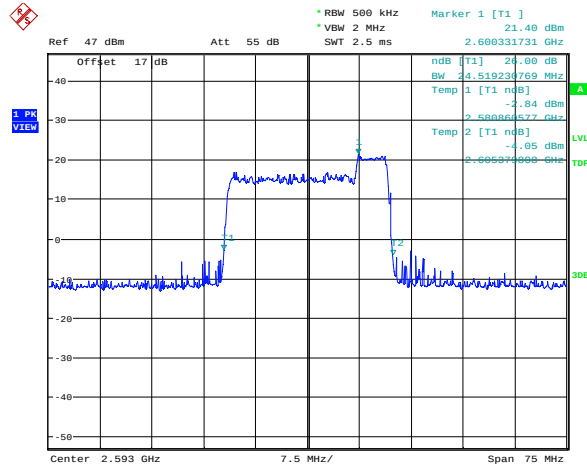


Date: 14.DEC.2023 11:02:59

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

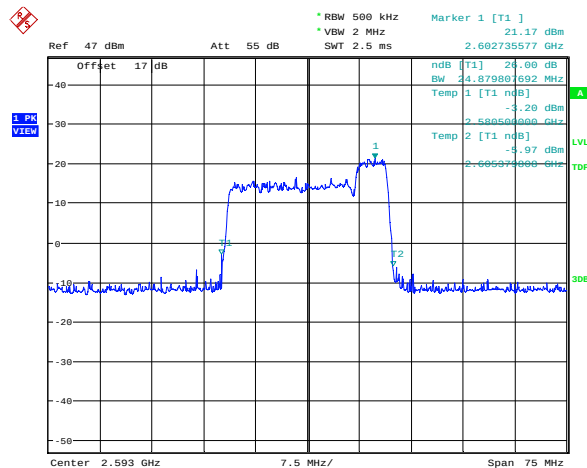
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	24.519	24.880

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



Date: 14.DEC.2023 11:04:21

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

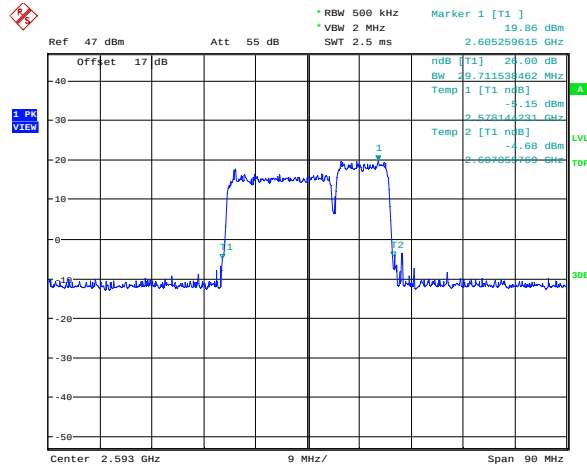


Date: 14.DEC.2023 11:04:44

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

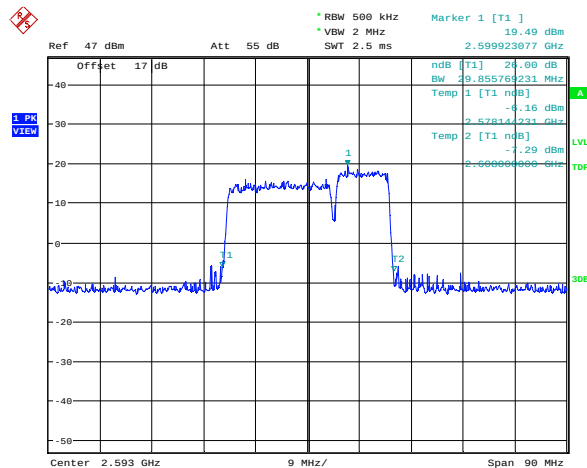
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	29.712	29.856

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



Date: 14.DEC.2023 11:05:37

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

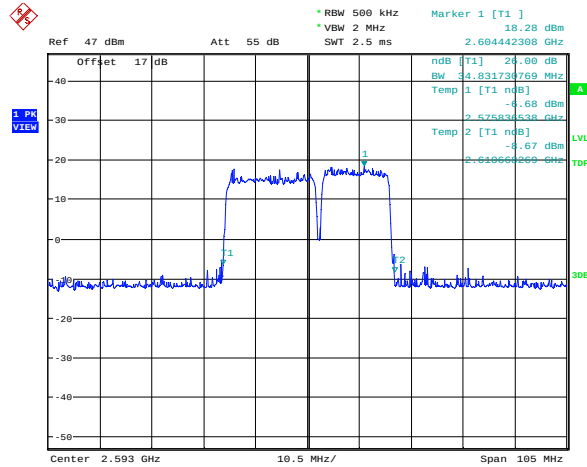


Date: 14.DEC.2023 11:06:00

LTE CA band 41C, 20MHz+15MHz(-26dBc)

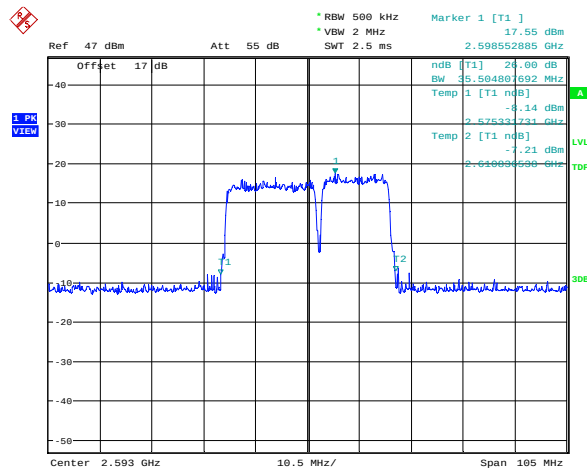
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	34.832	35.505

LTE CA band 41C , 20MHz+15MHz Bandwidth,QPSK (-26dBc BW)



Date: 14.DEC.2023 11:06:53

LTE CA band 41C , 20MHz+15MHz Bandwidth,16QAM (-26dBc BW)

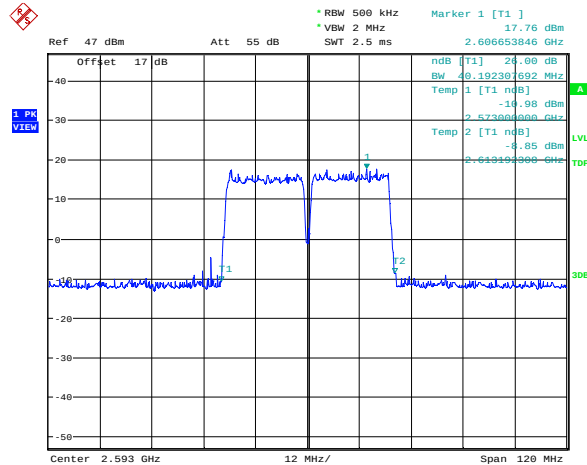


Date: 14.DEC.2023 11:07:16

LTE CA band 41C, 20MHz+20MHz(-26dBc)

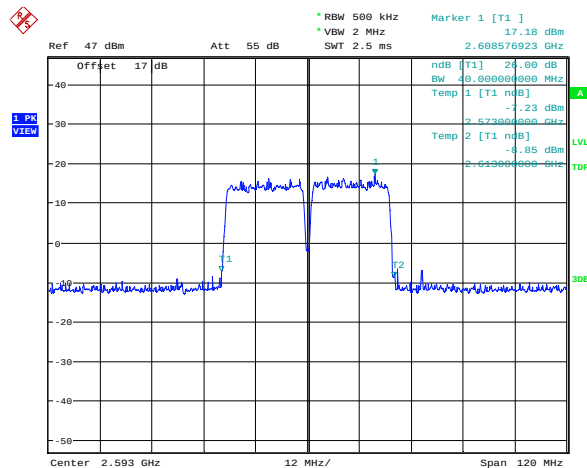
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	40.192	40.000

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



Date: 14.DEC.2023 11:08:12

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

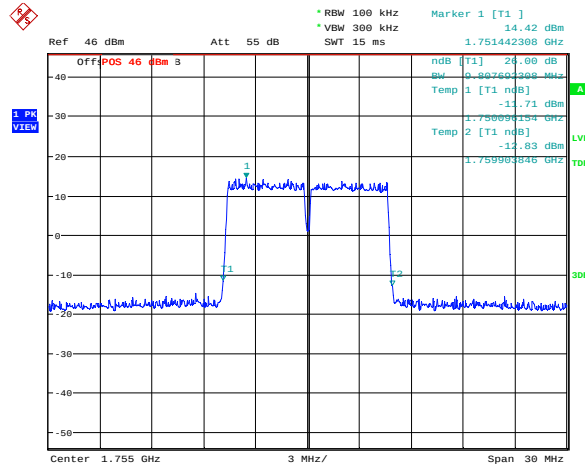


Date: 14.DEC.2023 11:08:35

LTE CA band 66B, 5MHz+5MHz(-26dBc)

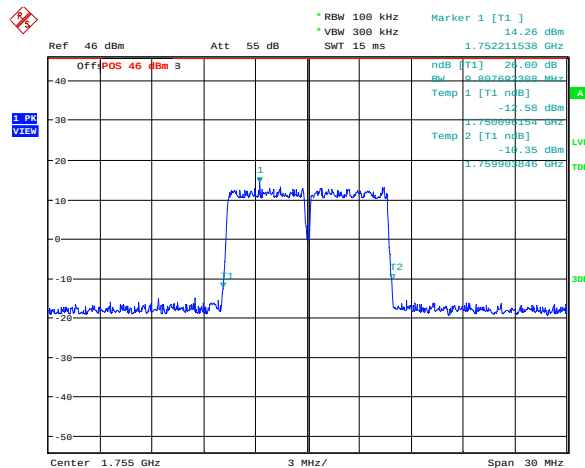
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	9.808	9.808

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



Date: 14.DEC.2023 12:13:36

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

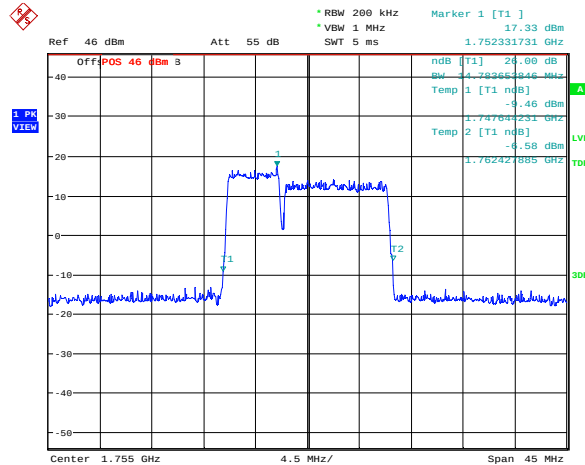


Date: 14.DEC.2023 12:13:59

LTE CA band 66B, 5MHz+10MHz(-26dBc)

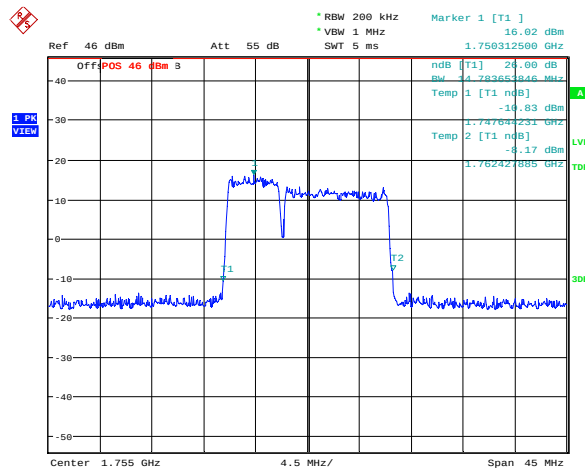
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	14.784	14.784

LTE CA band 66B , 5MHz+10MHz Bandwidth,QPSK (-26dBc BW)



Date: 14.DEC.2023 12:14:53

LTE CA band 66B , 5MHz+10MHz Bandwidth,16QAM (-26dBc BW)

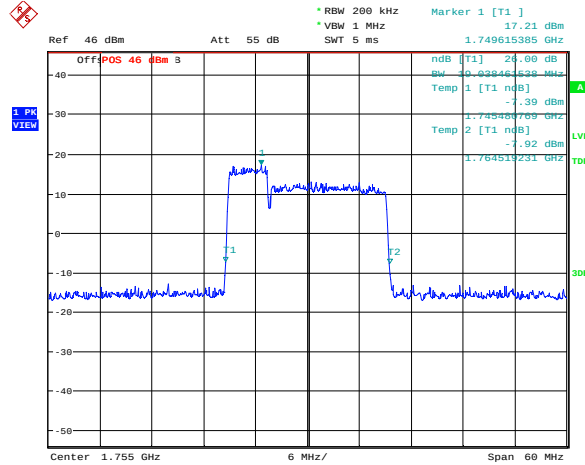


Date: 14.DEC.2023 12:15:15

LTE CA band 66B, 5MHz+15MHz(-26dBc)

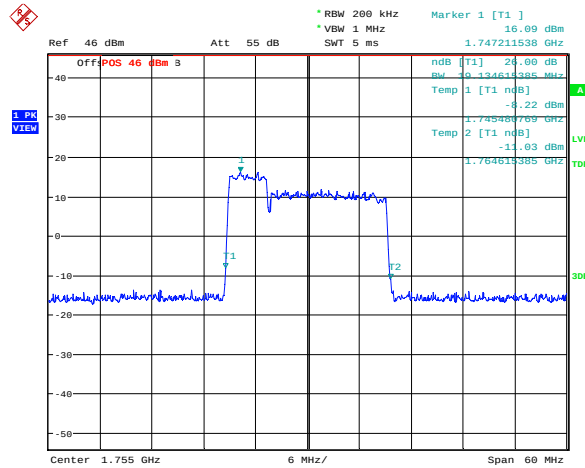
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	19.038	19.135

LTE CA band 66B , 5MHz+15MHz Bandwidth,QPSK (-26dBc BW)



Date: 14.DEC.2023 12:16:09

LTE CA band 66B , 5MHz+15MHz Bandwidth,16QAM (-26dBc BW)

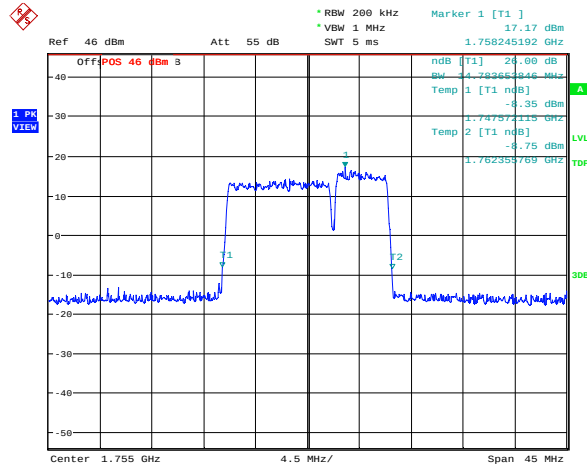


Date: 14.DEC.2023 12:16:32

LTE CA band 66B, 10MHz+5MHz(-26dBc)

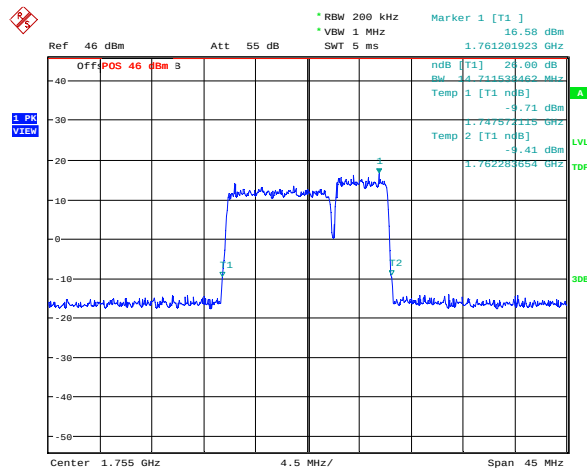
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	14.784	14.712

LTE CA band 66B , 10MHz+5MHz Bandwidth,QPSK (-26dBc BW)



Date: 14.DEC.2023 12:17:26

LTE CA band 66B , 10MHz+5MHz Bandwidth,16QAM (-26dBc BW)

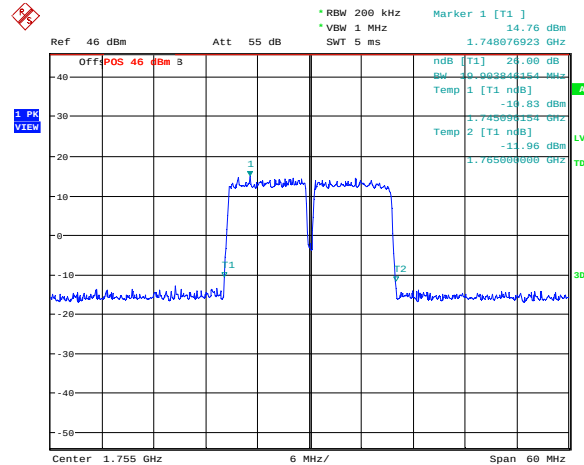


Date: 14.DEC.2023 12:17:49

LTE CA band 66B, 10MHz+10MHz(-26dBc)

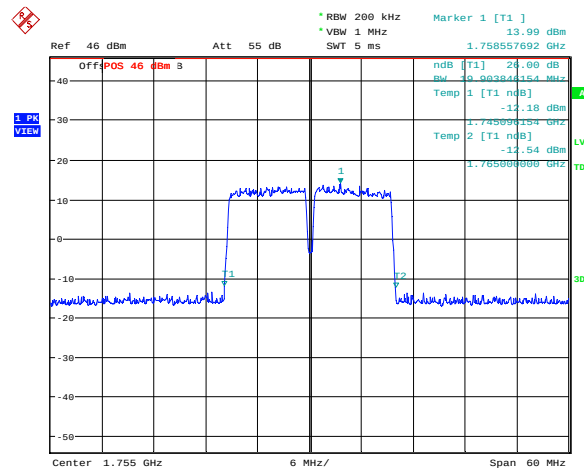
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	19.904	19.904

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



Date: 14.DEC.2023 12:18:43

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

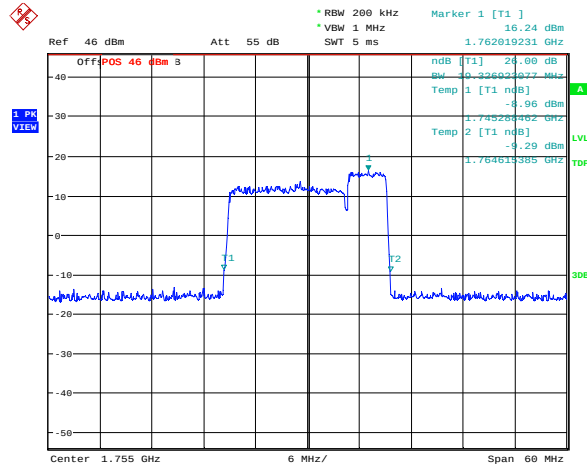


Date: 14.DEC.2023 12:19:06

LTE CA band 66B, 15MHz+5MHz(-26dBc)

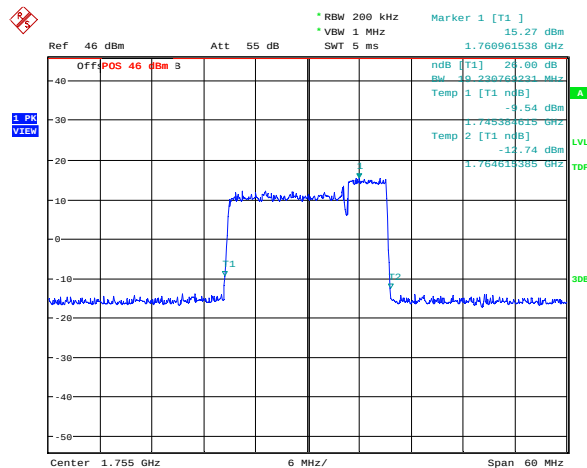
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	19.327	19.231

LTE CA band 66B , 15MHz+5MHz Bandwidth,QPSK (-26dBc BW)



Date: 14.DEC.2023 12:20:00

LTE CA band 66B , 15MHz+5MHz Bandwidth,16QAM (-26dBc BW)

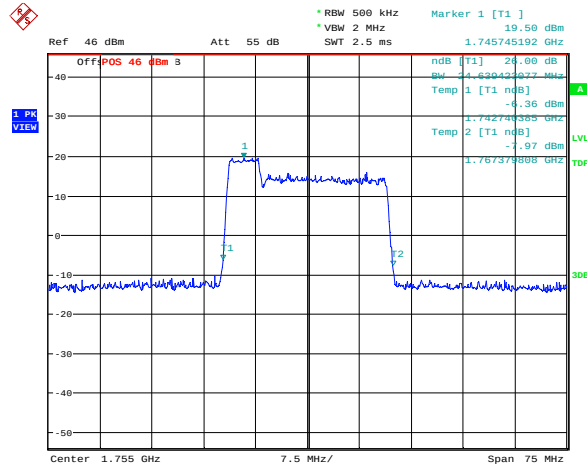


Date: 14.DEC.2023 12:20:23

LTE CA band 66C, 5MHz+20MHz(-26dBc)

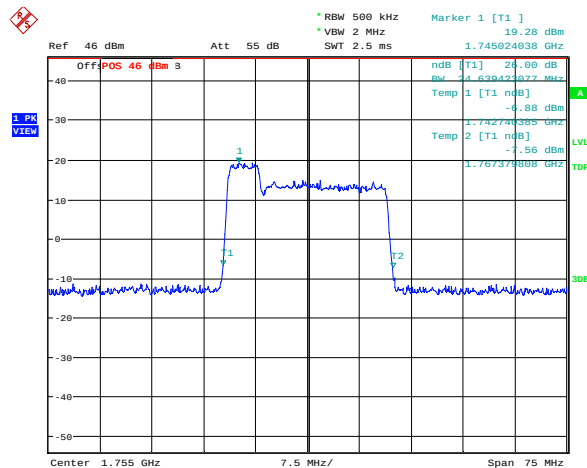
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	24.639	24.639

LTE CA band 66C , 5MHz+20MHz Bandwidth,QPSK (-26dBc BW)



Date: 14.DEC.2023 12:21:18

LTE CA band 66C , 5MHz+20MHz Bandwidth,16QAM (-26dBc BW)

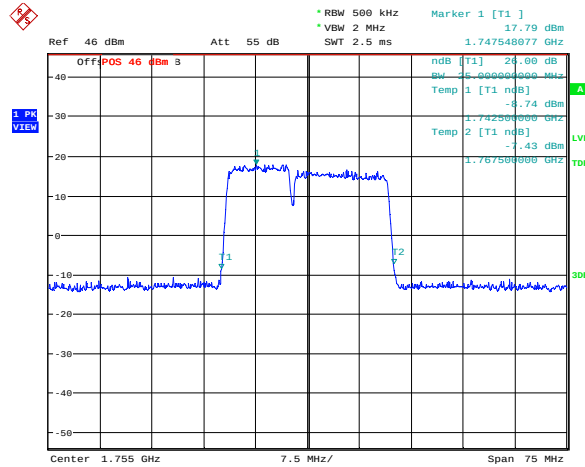


Date: 14.DEC.2023 12:21:44

LTE CA band 66C, 10MHz+15MHz(-26dBc)

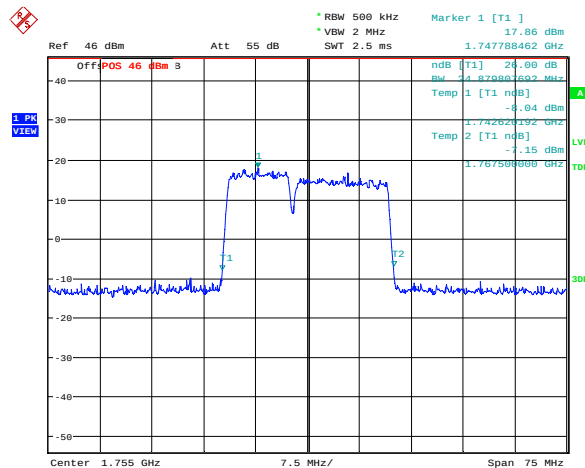
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	25.000	24.880

LTE CA band 66C , 10MHz+15MHz Bandwidth,QPSK (-26dBc BW)



Date: 14.DEC.2023 12:22:38

LTE CA band 66C , 10MHz+15MHz Bandwidth,16QAM (-26dBc BW)

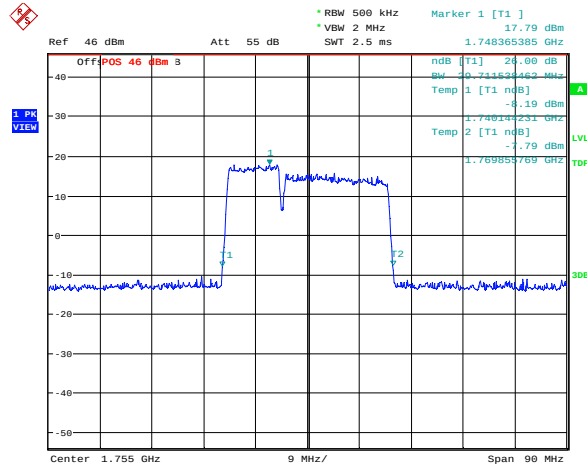


Date: 14.DEC.2023 12:23:01

LTE CA band 66C, 10MHz+20MHz(-26dBc)

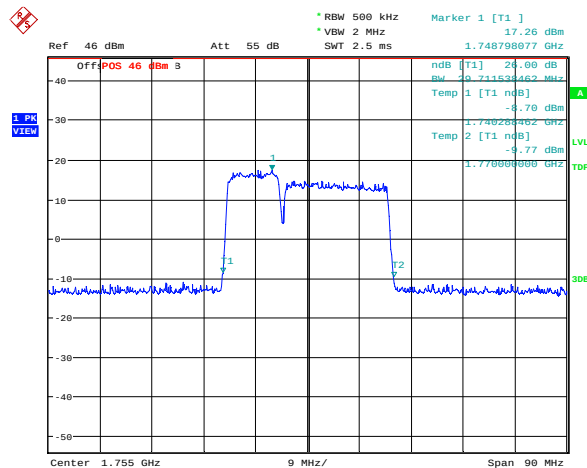
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	29.712	29.712

LTE CA band 66C , 10MHz+20MHz Bandwidth,QPSK (-26dBc BW)



Date: 14.DEC.2023 12:23:54

LTE CA band 66C , 10MHz+20MHz Bandwidth,16QAM (-26dBc BW)

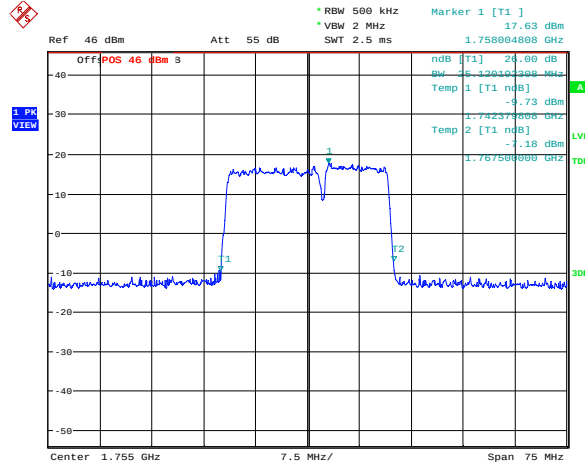


Date: 14.DEC.2023 12:24:17

LTE CA band 66C, 15MHz+10MHz(-26dBc)

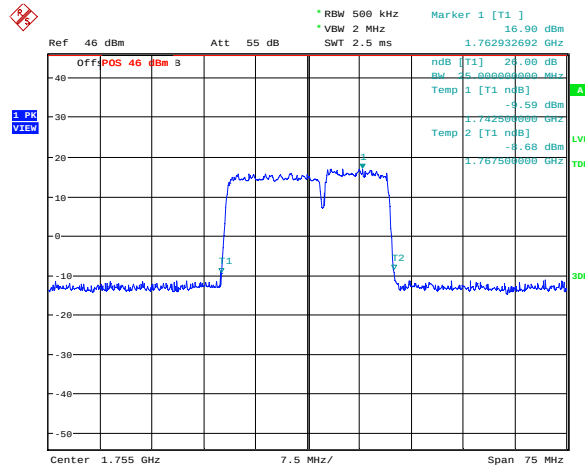
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	25.120	25.000

LTE CA band 66C , 15MHz+10MHz Bandwidth,QPSK (-26dBc BW)



Date: 14.DEC.2023 12:25:11

LTE CA band 66C , 15MHz+10MHz Bandwidth,16QAM (-26dBc BW)

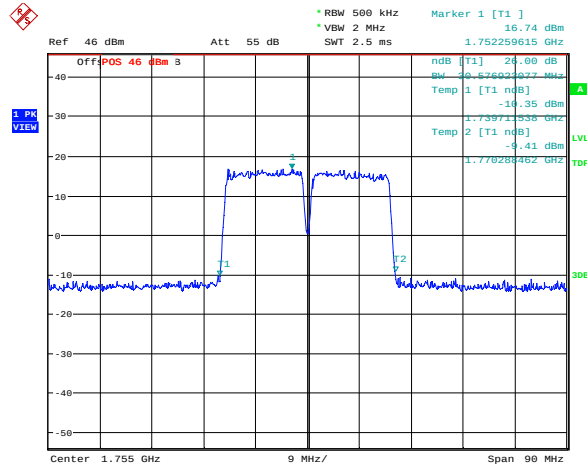


Date: 14.DEC.2023 12:25:34

LTE CA band 66C, 15MHz+15MHz(-26dBc)

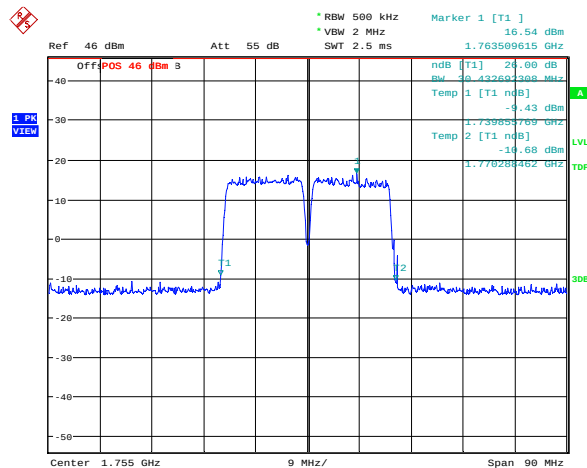
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	30.577	30.433

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



Date: 14.DEC.2023 12:26:27

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

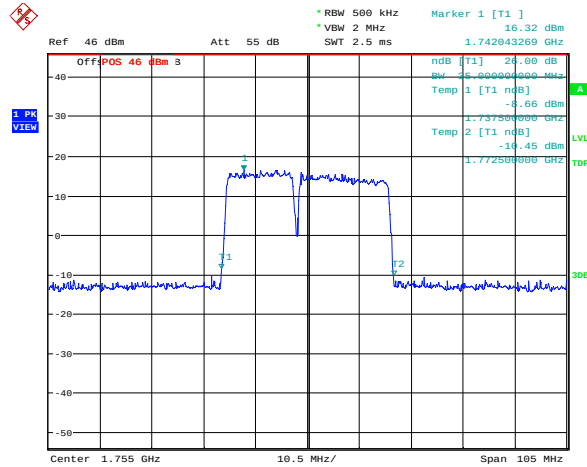


Date: 14.DEC.2023 12:26:50

LTE CA band 66C, 15MHz+20MHz(-26dBc)

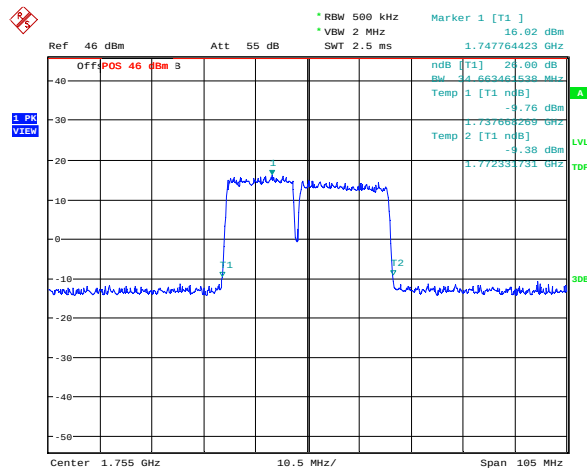
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	35.000	34.663

LTE CA band 66C , 15MHz+20MHz Bandwidth,QPSK (-26dBc BW)



Date: 14.DEC.2023 12:27:43

LTE CA band 66C , 15MHz+20MHz Bandwidth,16QAM (-26dBc BW)

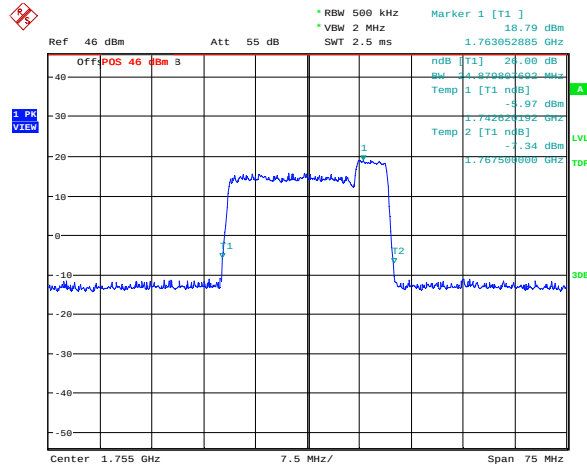


Date: 14.DEC.2023 12:28:09

LTE CA band 66C, 20MHz+5MHz(-26dBc)

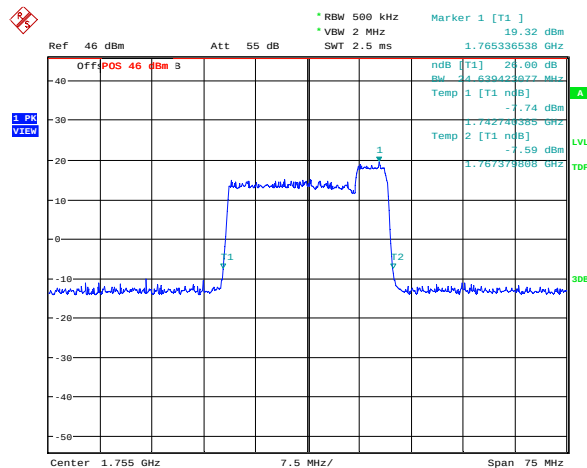
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	24.880	24.639

LTE CA band 66C , 20MHz+5MHz Bandwidth,QPSK (-26dBc BW)



Date: 14.DEC.2023 12:29:04

LTE CA band 66C , 20MHz+5MHz Bandwidth,16QAM (-26dBc BW)

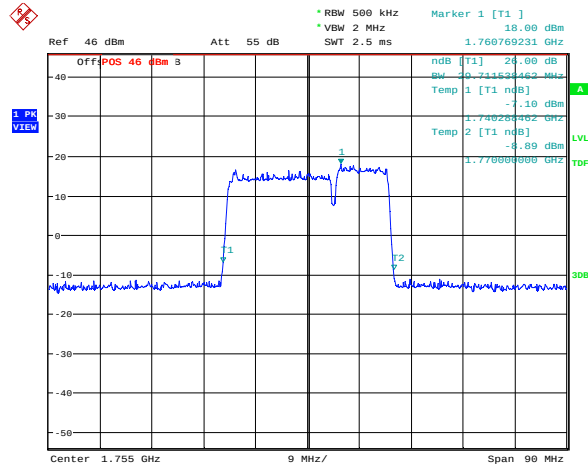


Date: 14.DEC.2023 12:29:27

LTE CA band 66C, 20MHz+10MHz(-26dBc)

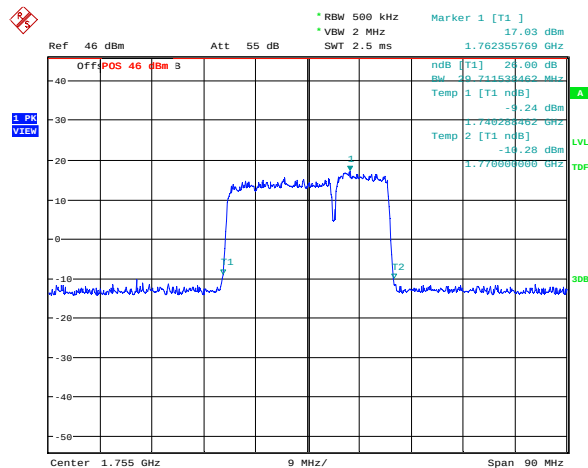
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	29.712	29.712

LTE CA band 66C , 20MHz+10MHz Bandwidth,QPSK (-26dBc BW)



Date: 14.DEC.2023 12:30:21

LTE CA band 66C , 20MHz+10MHz Bandwidth,16QAM (-26dBc BW)

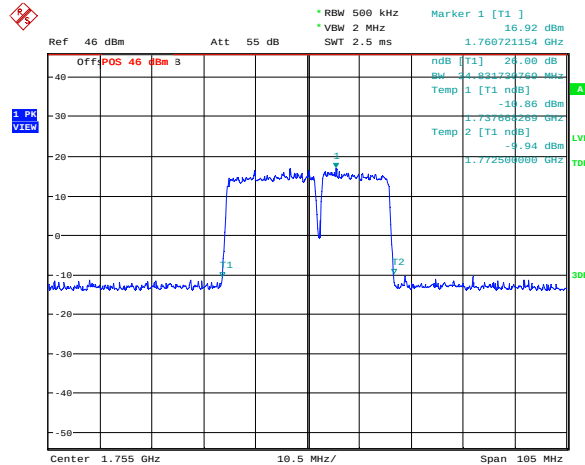


Date: 14.DEC.2023 12:30:44

LTE CA band 66C, 20MHz+15MHz(-26dBc)

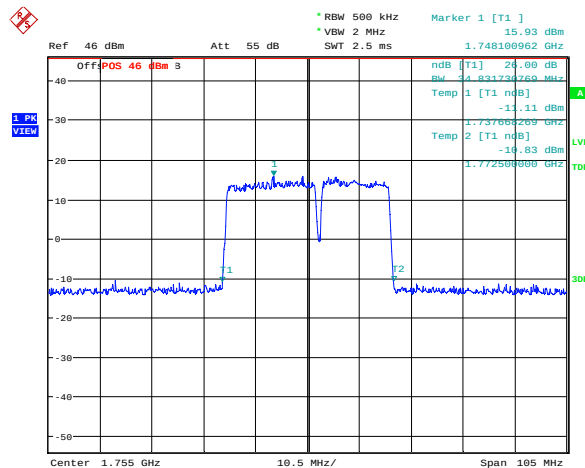
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	34.832	34.832

LTE CA band 66C , 20MHz+15MHz Bandwidth,QPSK (-26dBc BW)



Date: 14.DEC.2023 12:31:37

LTE CA band 66C , 20MHz+15MHz Bandwidth,16QAM (-26dBc BW)

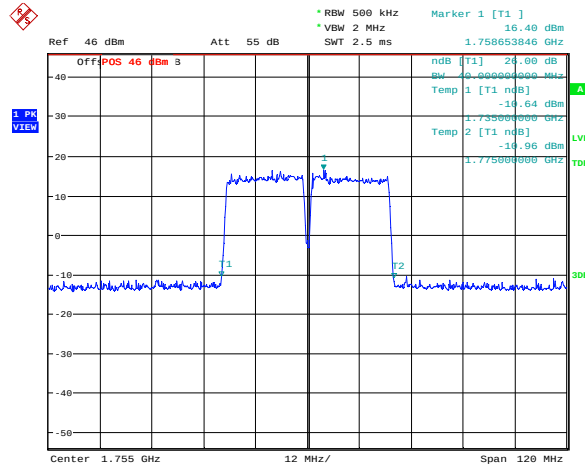


Date: 14.DEC.2023 12:32:00

LTE CA band 66C, 20MHz+20MHz(-26dBc)

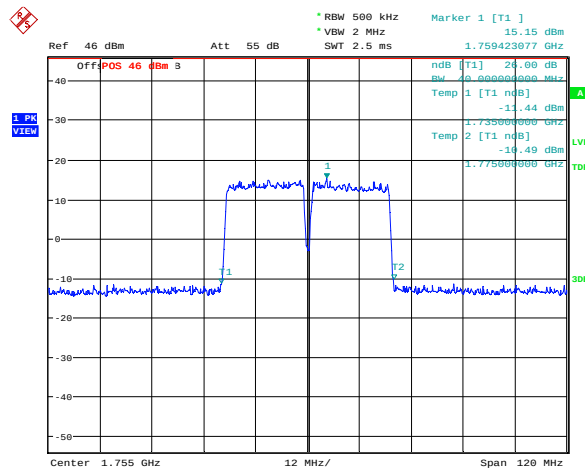
Frequency (MHz)	Occupied Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	40.000	40.000

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



Date: 14.DEC.2023 12:32:53

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



Date: 14.DEC.2023 12:33:16

Note: Expanded measurement uncertainty is $U = 3428 \text{ Hz}$, $k = 2$.

A.6 Band Edge Compliance

A.6.1 Measurement limit

Part 22.917, Part 24.238 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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

Part 27.53(c) states for operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following: (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB; (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB; (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

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

Part 90.691 states that out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows: For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency

removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

Part 96.41(e) states for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB. The conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

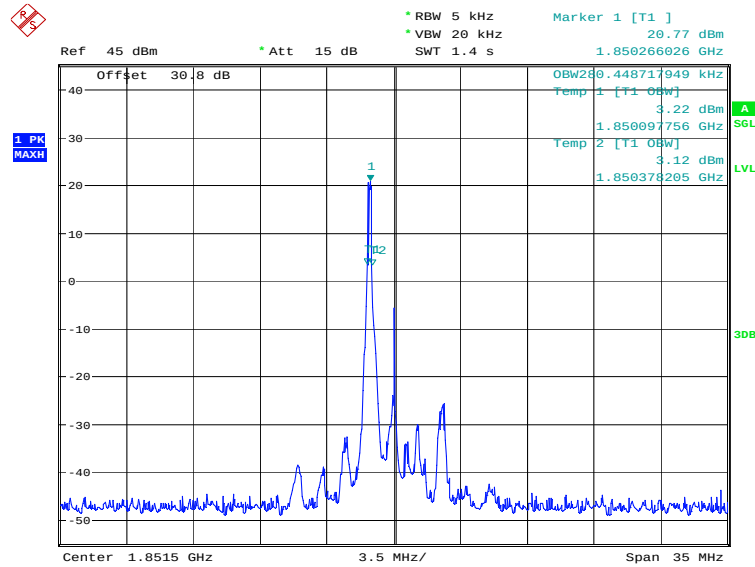
The spectrum analyzer readings are corrected by $[10 \log (1/\text{duty cycle})]$ for the non-continuous transmitting scenario.

A.6.2 Measurement result

Only the worst case result is given below

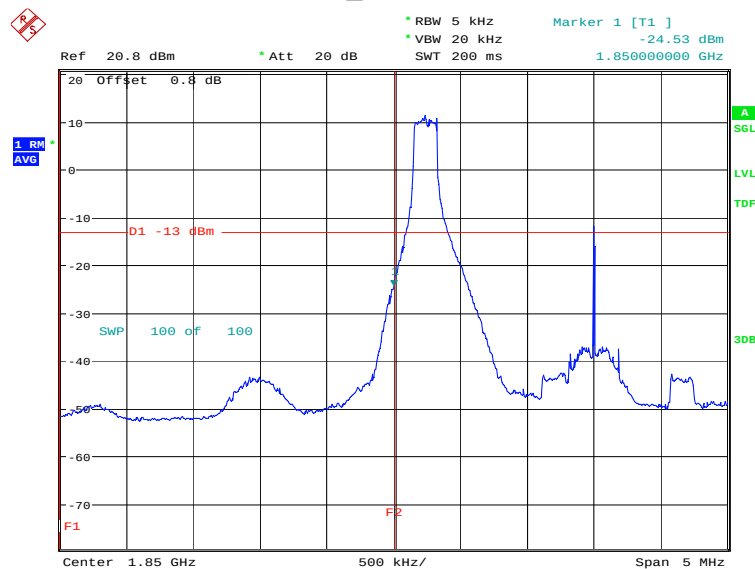
LTE band 2

OBW: 1RB-low_offset



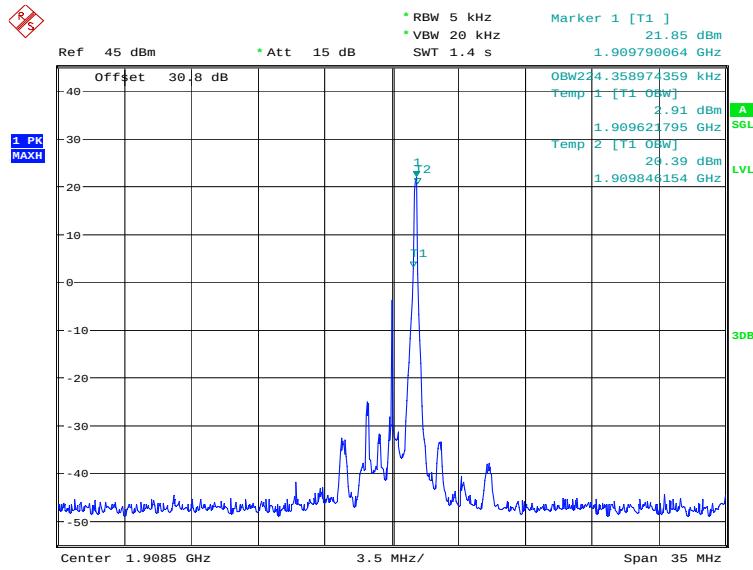
Date: 22.DEC.2023 08:01:13

LOW BAND EDGE BLOCK-1RB-low_offset



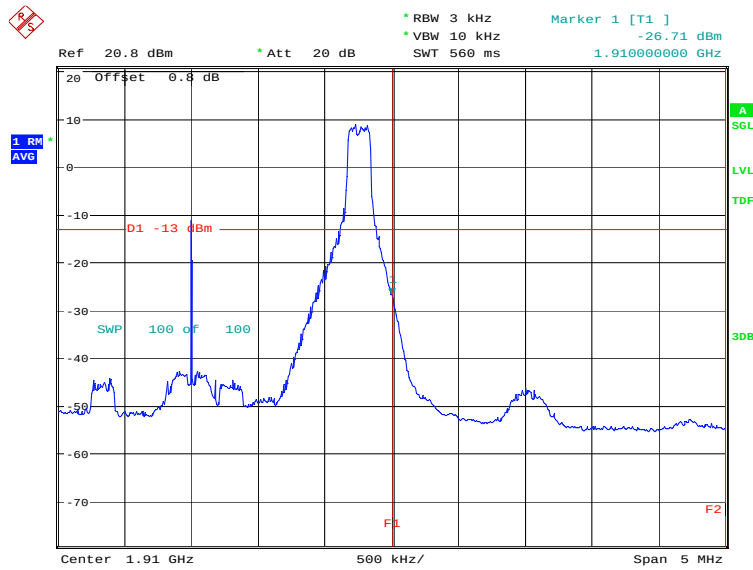
Date: 22.DEC.2023 08:02:27

OBW: 1RB-high_offset



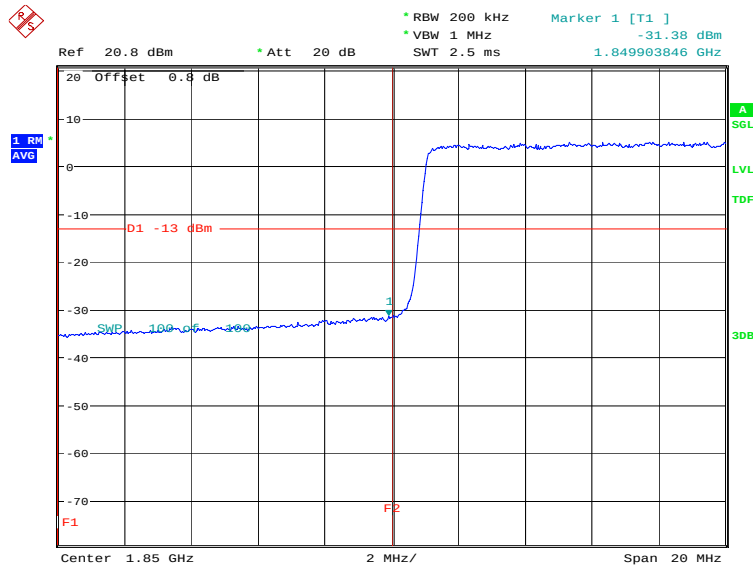
Date: 22.DEC.2023 08:03:03

HIGH BAND EDGE BLOCK-1RB-high_offset



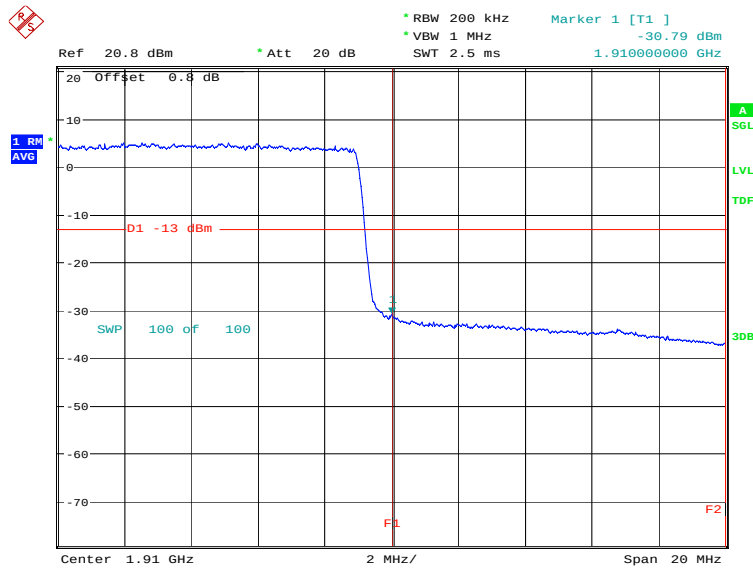
Date: 22.DEC.2023 08:04:18

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 22.DEC.2023 07:27:34

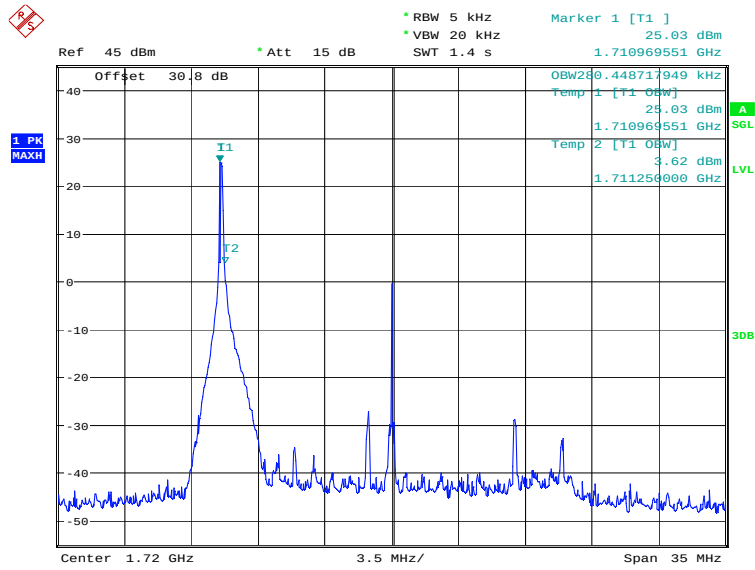
HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 22.DEC.2023 07:29:06

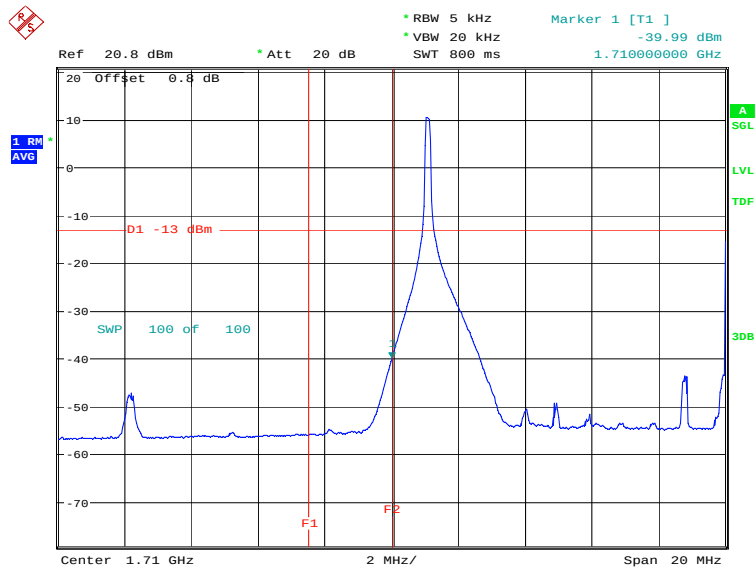
LTE band 4

OBW: 1RB-low_offset



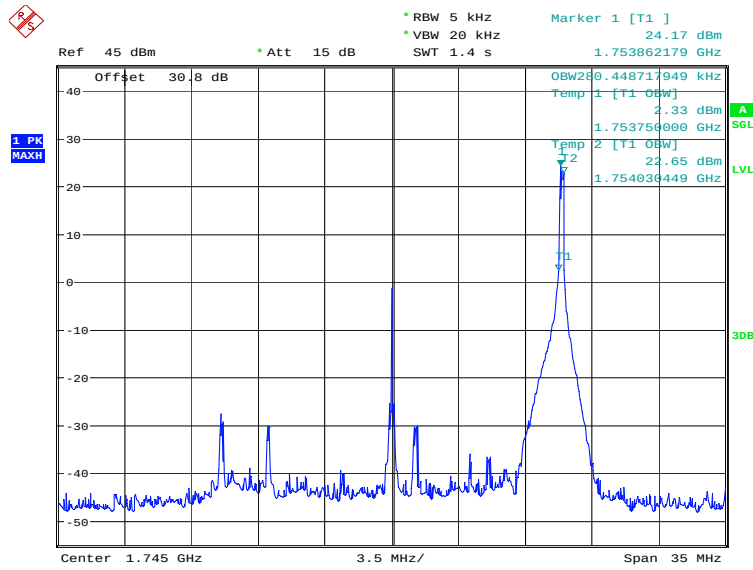
Date: 14.DEC.2023 07:47:59

LOW BAND EDGE BLOCK-1RB-low_offset



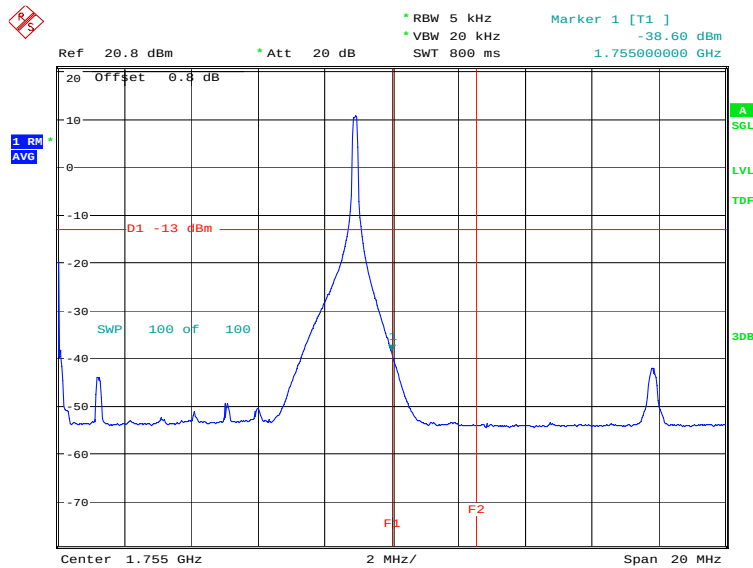
Date: 14.DEC.2023 07:51:44

OBW: 1RB-high_offset



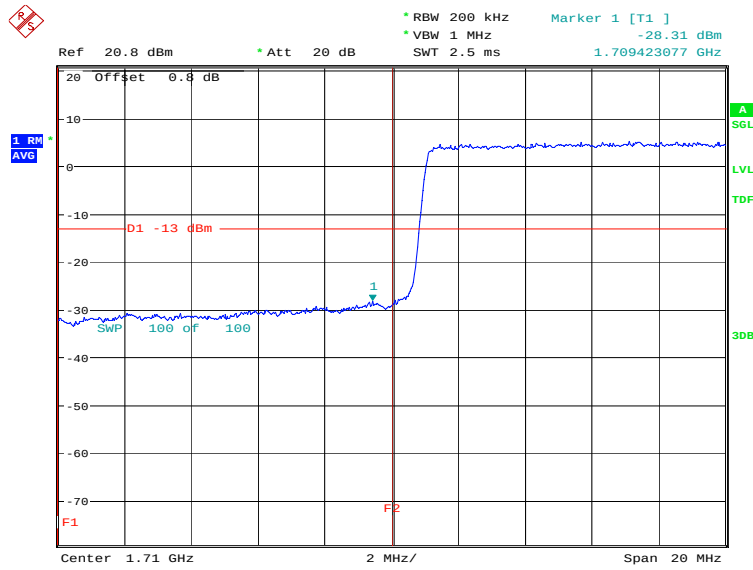
Date: 14.DEC.2023 07:52:20

HIGH BAND EDGE BLOCK-1RB-high_offset



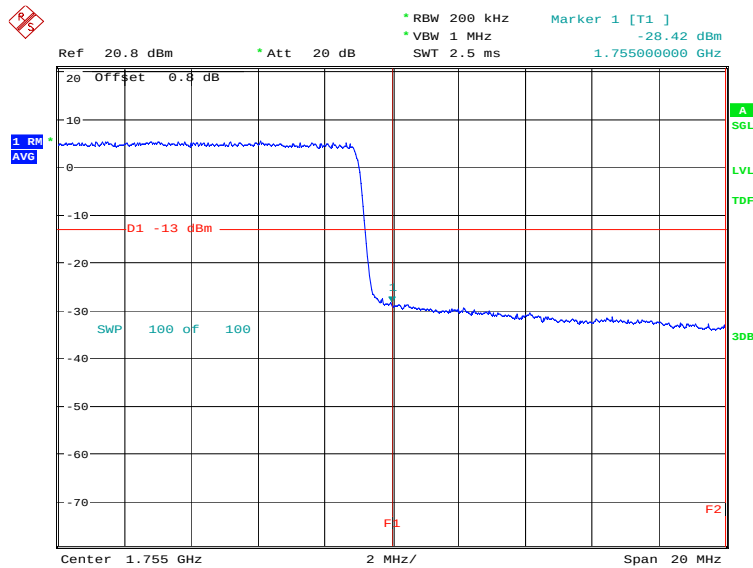
Date: 14.DEC.2023 07:54:15

LOW BAND EDGE BLOCK-20MHz-100%RB



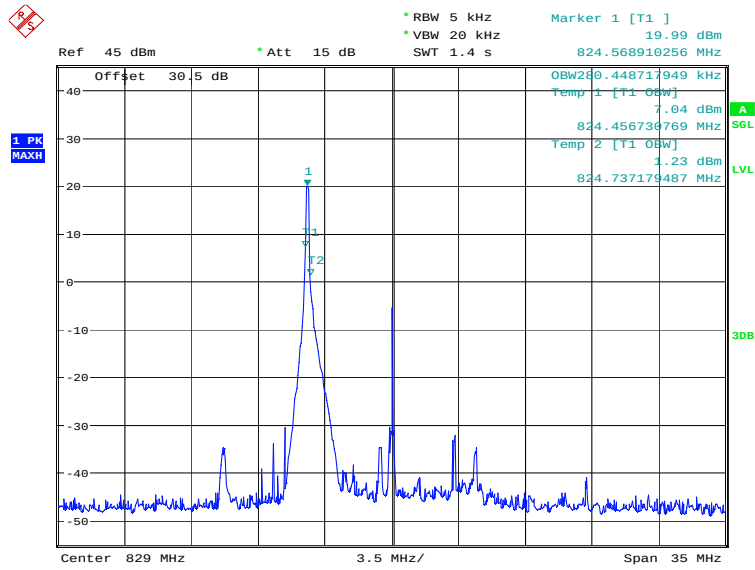
Date: 13.DEC.2023 15:53:54

HIGH BAND EDGE BLOCK-20MHz-100%RB



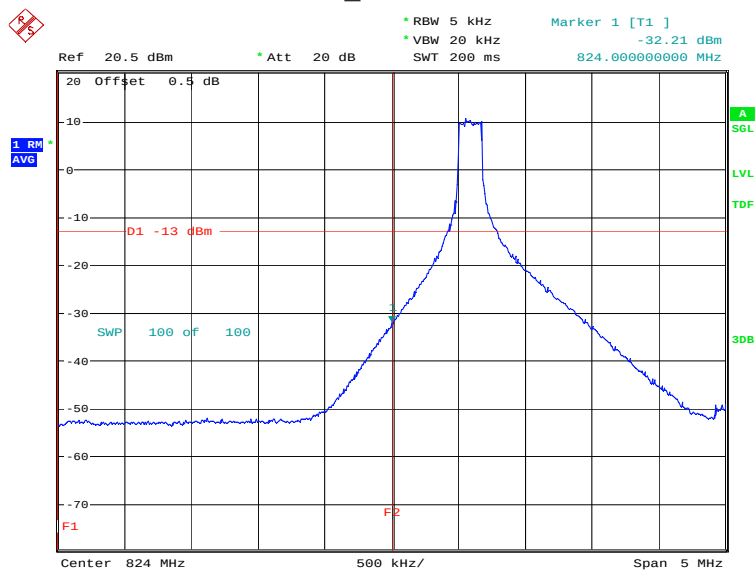
Date: 13.DEC.2023 15:57:16

LTE band 5 OBW: 1RB-low_offset



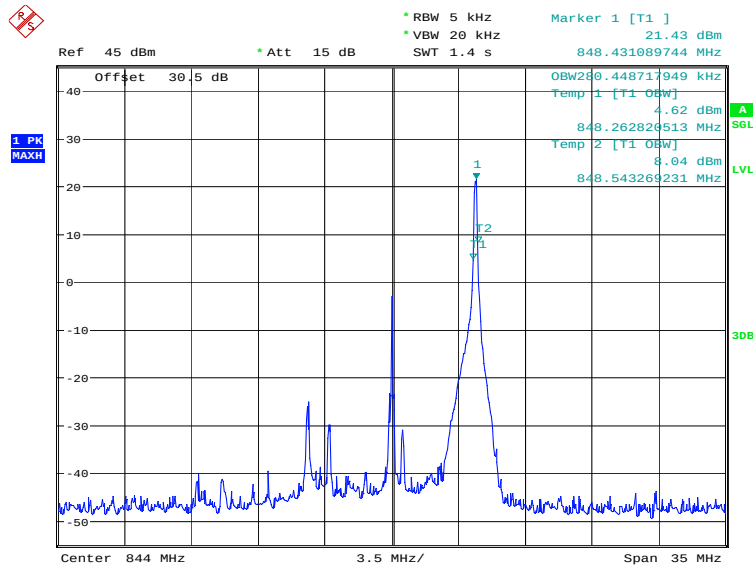
Date: 22.DEC.2023 08:08:03

LOW BAND EDGE BLOCK-1RB-low_offset



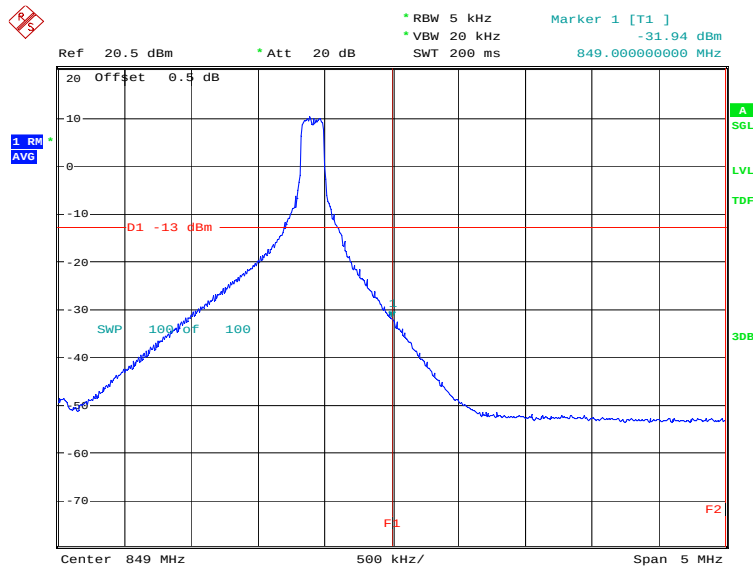
Date: 22.DEC.2023 08:09:17

OBW: 1RB-high_offset



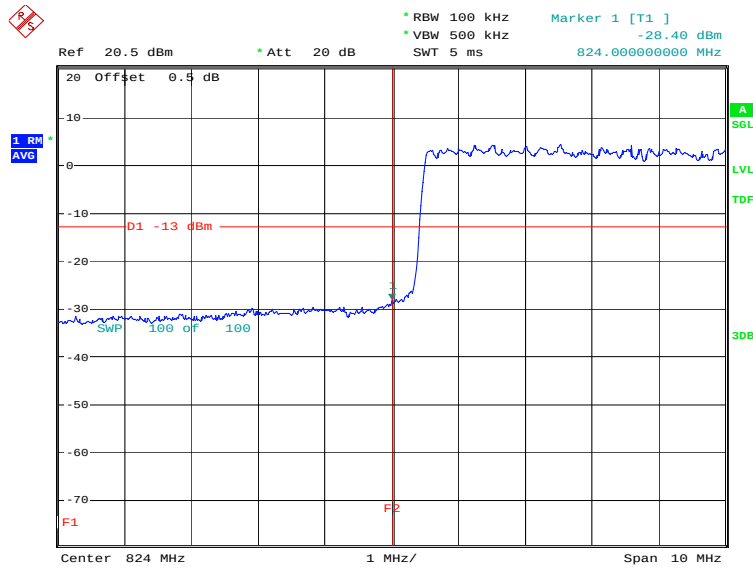
Date: 22.DEC.2023 08:09:54

HIGH BAND EDGE BLOCK-1RB-high_offset



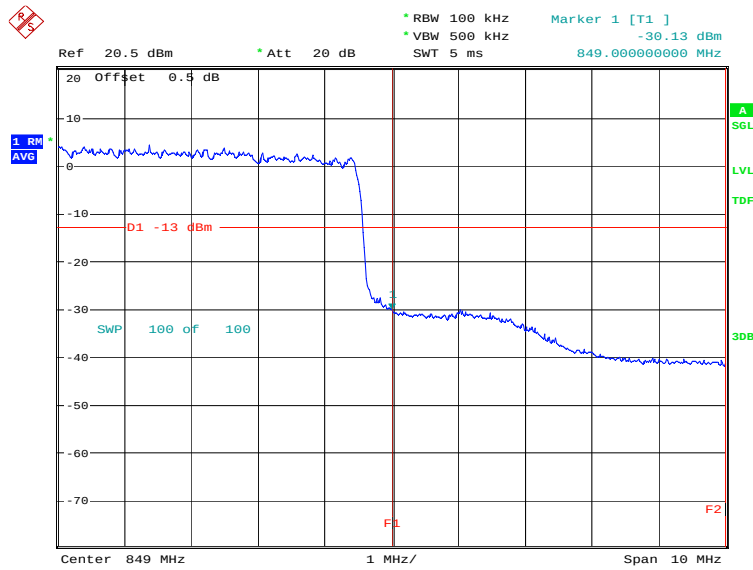
Date: 22.DEC.2023 08:11:08

LOW BAND EDGE BLOCK-10MHz-100%RB



Date: 22.DEC.2023 08:35:28

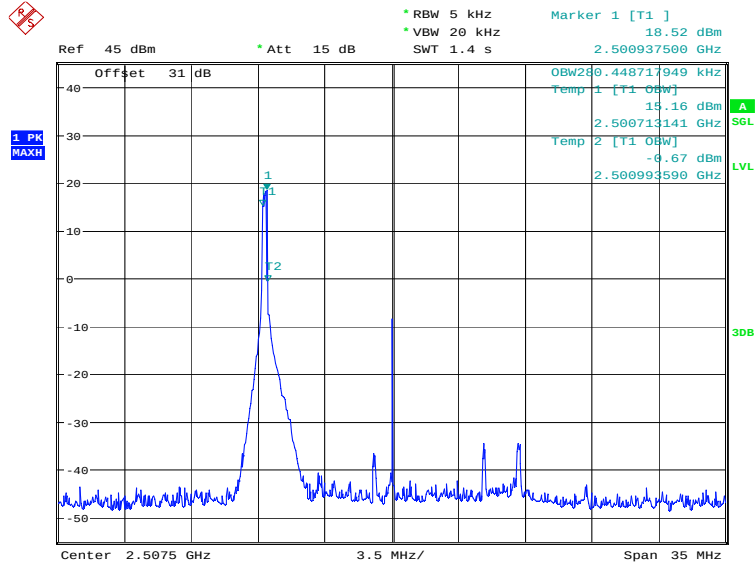
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 22.DEC.2023 08:37:00

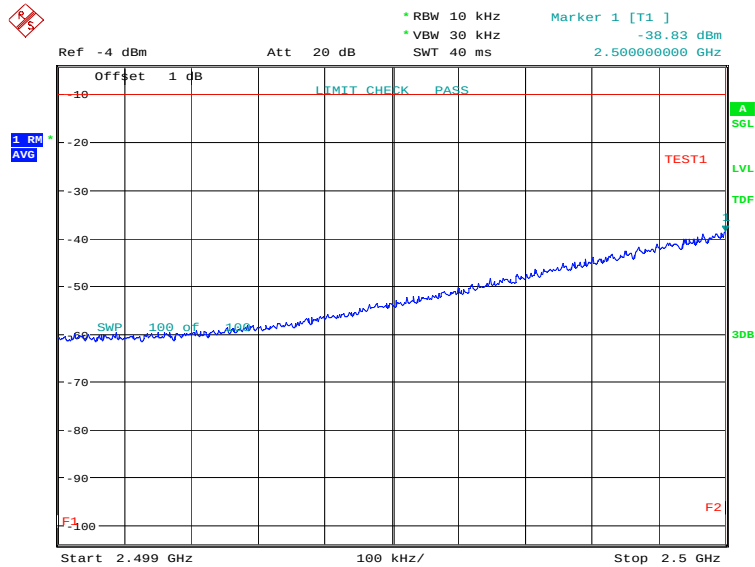
LTE band 7

OBW: 1RB-low_offset

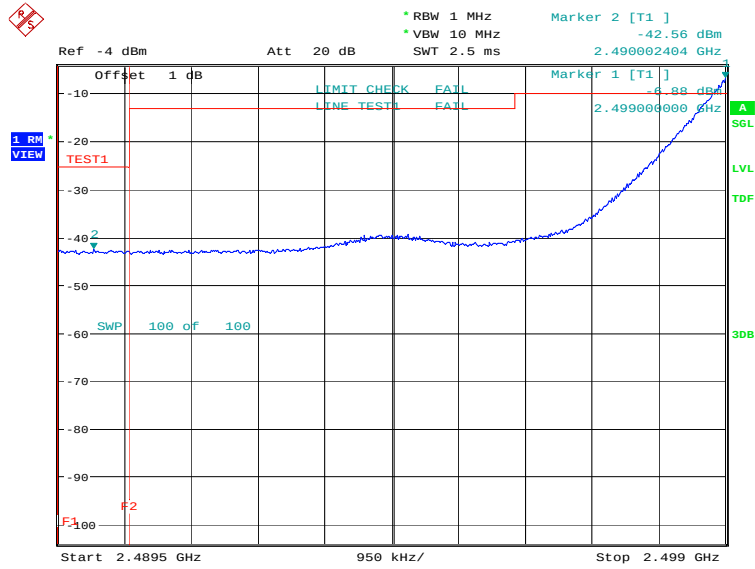


Date: 13.DEC.2023 14:57:30

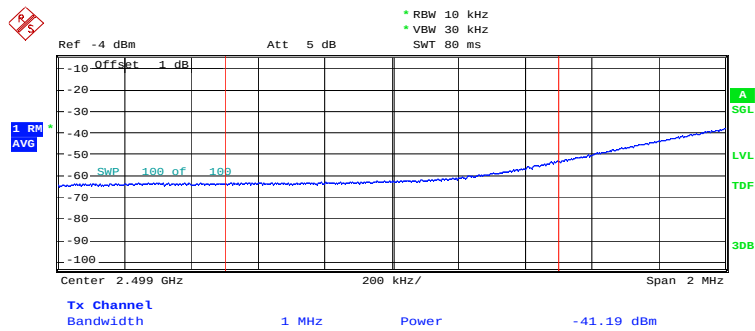
LOW BAND EDGE BLOCK-1RB-low_offset



Date: 13.DEC.2023 14:58:51

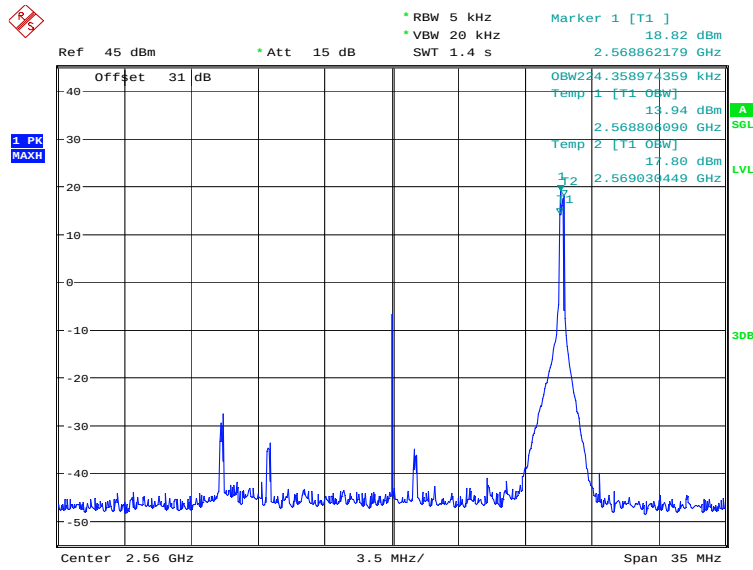


Date: 13.DEC.2023 15:00:41



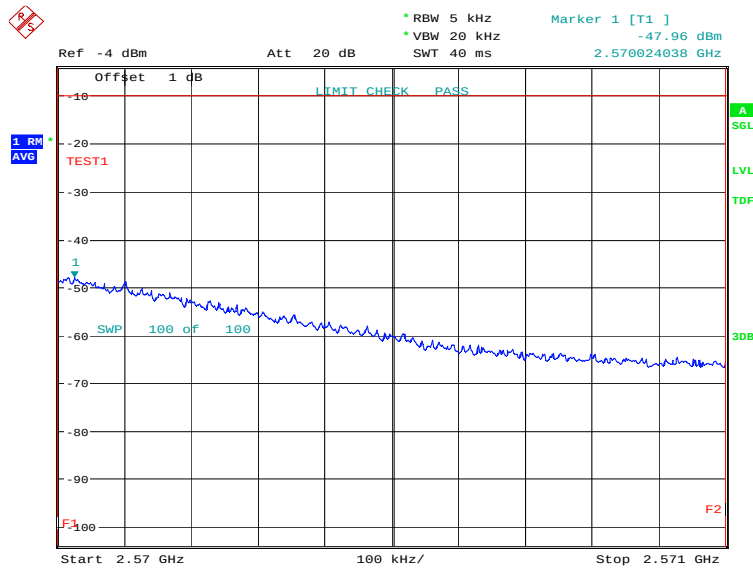
Date: 13.DEC.2023 15:01:09

OBW: 1RB-high_offset

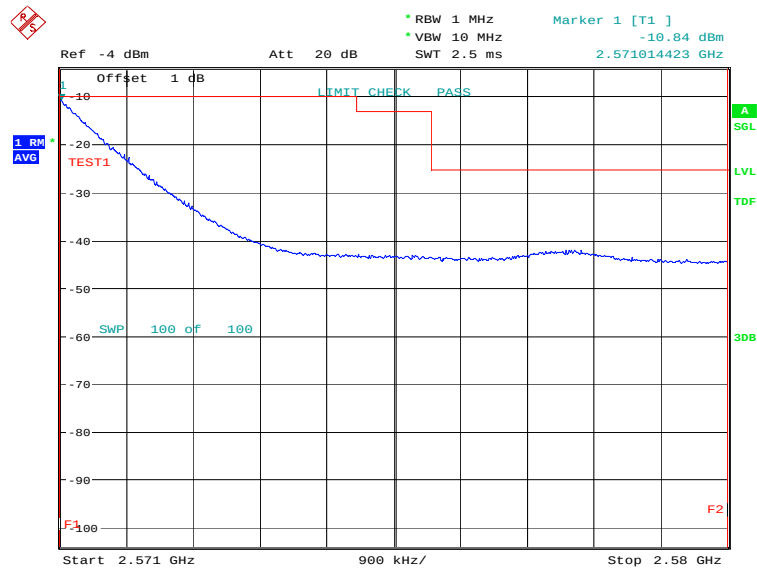


Date: 13.DEC.2023 15:01:46

HIGH BAND EDGE BLOCK-1RB-high_offset



Date: 13.DEC.2023 15:03:08



Date: 13.DEC.2023 15:04:49



RBW 500 kHz
 VBW 2 MHz
 SWT 2.5 ms

Marker 1 [T1]
 -29.51 dBm
 2.499987179 GHz

Ref 1 dBm
 Att 25 dB

1 RM
 AVG

0 Offset 1 dB
 LIMIT CHECK PASS
 TEST1
 F1
 F2
 SWP 100 of 100
 Start 2.499 GHz
 100 kHz/
 Stop 2.5 GHz

RBW 1 MHz
 VBW 10 MHz
 SWT 2.5 ms

Marker 1 [T1]
 -27.57 dBm
 2.49900000 GHz

Ref -4 dBm
 Att 20 dB

Offset 1 dB

LIMIT CHECK PASS

TEST1

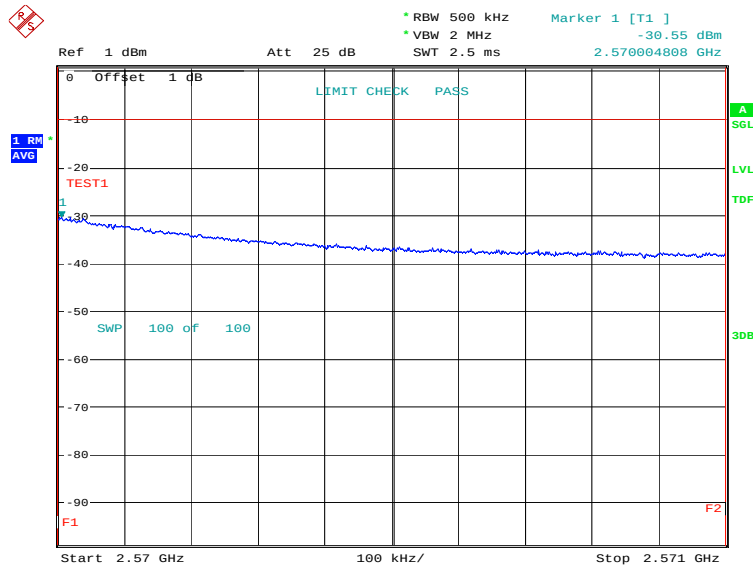
SWP 100 of 100

F1 F2

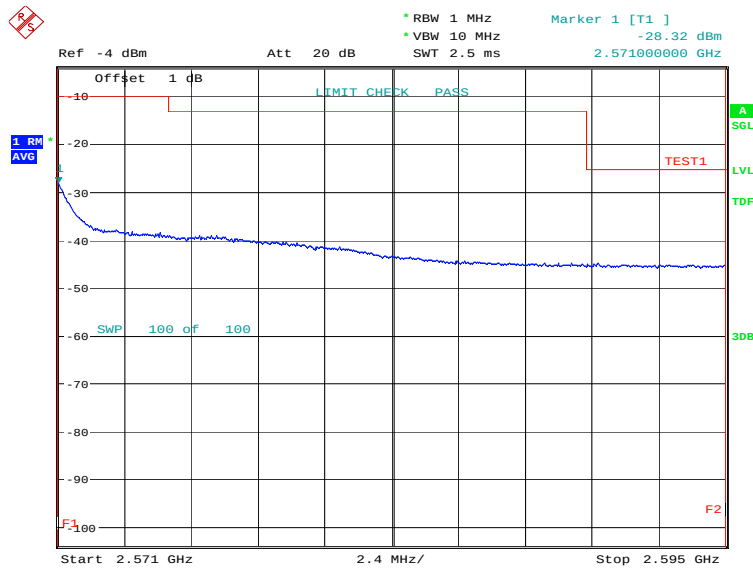
Start 2.4895 GHz
 950 kHz/
 Stop 2.499 GHz

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HIGH BAND EDGE BLOCK-20MHz-100%RB



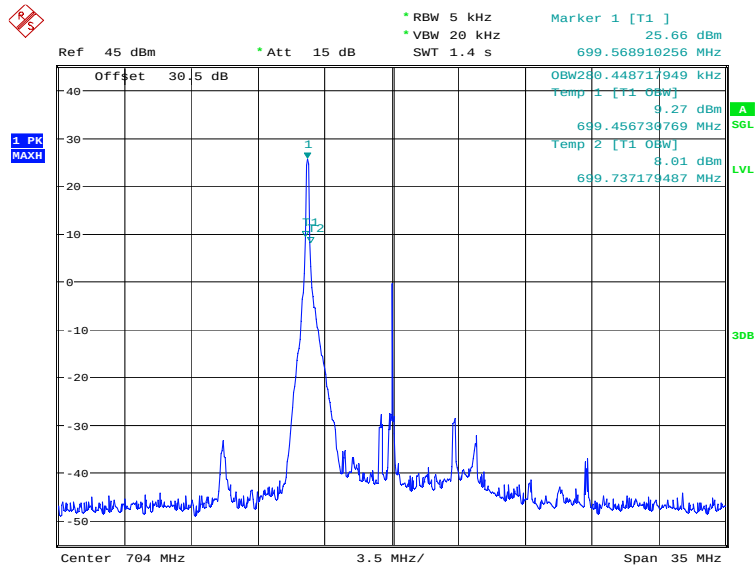
Date: 16.NOV.2023 13:33:45



Date: 16.NOV.2023 13:35:26

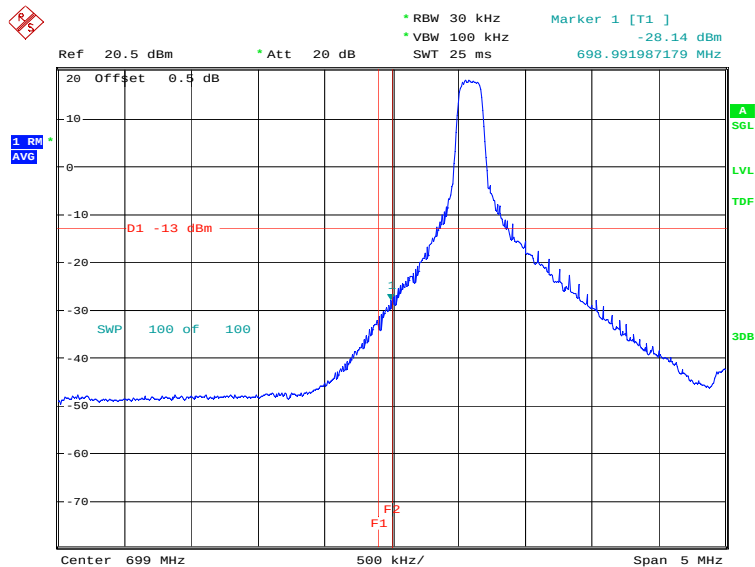
LTE band 12

OBW: 1RB-low_offset



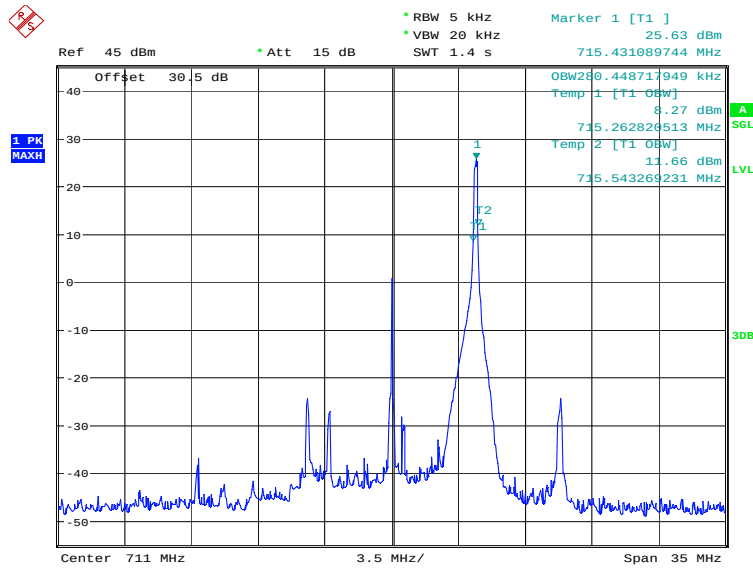
Date: 14.DEC.2023 08:25:37

LOW BAND EDGE BLOCK-1RB-low_offset



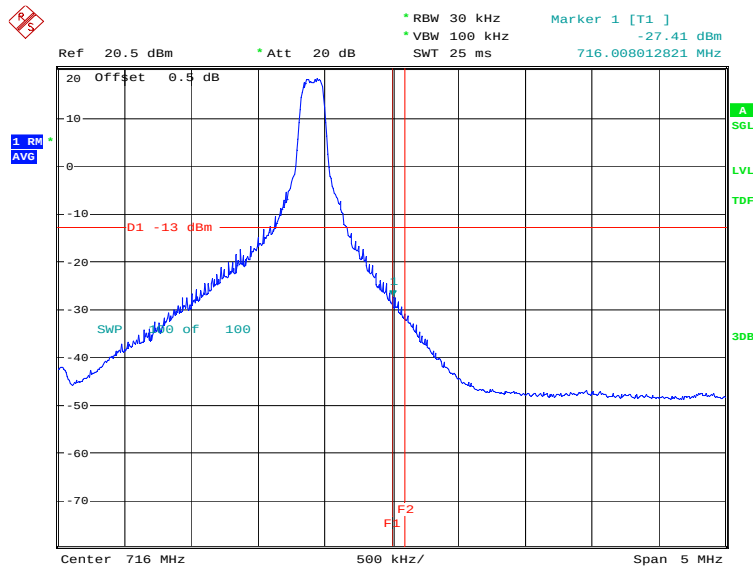
Date: 14.DEC.2023 08:25:57

OBW: 1RB-high_offset



Date: 14.DEC.2023 08:26:33

HIGH BAND EDGE BLOCK-1RB-high_offset



Date: 14.DEC.2023 08:26:52