



TEST REPORT

No. I22Z60940-WMD01

for

TCL Communication Ltd.

Mobile Hot Spot

Model Name: MW513U

FCC ID: 2ACCJB183

with

Hardware Version: 06

Software Version: MW513U_ZZ_02.00_06

Issued Date: 2022-07-27

Note:

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

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

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z60940-WMD01	Rev.0	1 st edition	2022-07-27

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



CONTENTS

1. TEST LABORATORY	4
1.1. INTRODUCTION & ACCREDITATION.....	4
1.2. TESTING LOCATION	4
1.3. TESTING ENVIRONMENT.....	5
1.4. PROJECT DATA	5
1.5. SIGNATURE	5
2. CLIENT INFORMATION.....	6
2.1. APPLICANT INFORMATION.....	6
2.2. MANUFACTURER INFORMATION.....	6
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	7
3.1. ABOUT EUT	7
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	8
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST.....	8
4. REFERENCE DOCUMENTS.....	9
4.1. DOCUMENTS SUPPLIED BY APPLICANT	9
4.2. REFERENCE DOCUMENTS FOR TESTING.....	9
5. LABORATORY ENVIRONMENT	10
6. SUMMARY OF TEST RESULT	11
7. TEST EQUIPMENT UTILIZED	14
ANNEX A: MEASUREMENT RESULTS.....	15
A.1 OUTPUT POWER	15
A.2 EMISSION LIMIT.....	63
A.3 FREQUENCY STABILITY	85
A.4 OCCUPIED BANDWIDTH.....	92
A.5 EMISSION BANDWIDTH.....	151
A.6 BAND EDGE COMPLIANCE.....	210
A.7 CONDUCTED SPURIOUS EMISSION.....	325
A.8 PEAK-TO-AVERAGE POWER RATIO.....	334
A.9 END USER DEVICE ADDITIONAL REQUIREMENT (CBSD PROTOCOL)	336
ANNEX B: ACCREDITATION CERTIFICATE.....	339



1. Test Laboratory

1.1. Introduction & Accreditation

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

1.2. Testing Location

Location 1: CTTL (huayuan North Road)

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

Location 2: CTTL (BDA)

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

1.3. Testing Environment

Normal Temperature: 15-35°C
Relative Humidity: 20-75%

1.4. Project Data

Testing Start Date: 2022-05-09
Testing End Date: 2022-07-15

1.5. Signature



Dong Yuan
(Prepared this test report)



Zhou Yu
(Reviewed this test report)



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



2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
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2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Mobile Hot Spot
Model Name	MW513U
FCC ID	2ACCJB183
Antenna	Embedded
Output power	26.62dBm maximum EIRP measured for LTE Band 66
Extreme vol. Limits	3.4VDC to 4.4VDC (nominal: 3.8VDC)
Extreme temp. Tolerance	-10°C to +55°C
LTE Frequency Band	FDD1/FDD2/FDD3/FDD4/FDD5/FDD7/FDD12/FDD13/FDD20/ FDD28/ FDD46/TDD48/FDD66
LTE CA Frequency Band	CA_2A-2A,CA_2A-4A,CA_2A-5A,CA_2A-13A,CA_2A-46A,CA_2A-48A,CA_2A-66A,CA_4A-4A,CA_4A-5A,CA_4A-13A,CA_4A-46A,CA_4A-48A,CA_5A-5A,CA_5A-46A,CA_5A-48A,CA_5A-66A,CA_5B,CA_13A-46A,CA_13A-48A,CA_13A-66A,CA_46A-66A,CA_48A-66A,CA_48C,CA_66A-66A,CA_66B,CA_66C,CA_2A-2A-4A,CA_2A-2A-5A,CA_2A-2A-13A,CA_2A-2A-66A,CA_2A-4A-4A,CA_2A-4A-5A,CA_2A-4A-13A,CA_2A-5A-46A,CA_2A-5A-48A,CA_2A-5A-66A,CA_2A-5B,CA_2A-13A-46A,CA_2A-13A-48A,CA_2A-13A-66A,CA_2A-46A-46A,CA_2A-46A-66A,CA_2A-46C,CA_2A-48A-48A,CA_2A-48A-66A,CA_2A-48C,CA_2A-66A-66A,CA_2A-66B,CA_2A-66C,CA_4A-4A-5A,CA_4A-4A-13A,CA_4A-5B,CA_4A-46A-46A,CA_4A-46C,CA_4A-48C,CA_5A-5A-66A,CA_5A-46A-66A,CA_5A-46C,CA_5A-48A-66A,CA_5A-66A-66A,CA_5A-66B,CA_5A-66C,CA_5B-46A,CA_5B-66A,CA_13A-46A-66A,CA_13A-46C,CA_13A-48A-48A,CA_13A-48A-66A,CA_13A-48C,CA_13A-66A-66A,CA_13A-66B,CA_13A-66C,CA_46A-46A-66A,CA_46C-66A,CA_48A-48A-66A,CA_48A-66A-66A,CA_48A-66B,CA_48A-66C,CA_48C-66A,CA_48D,CA_66A-66A-66A,CA_66A-66C,CA_2A-2A-4A-4A,CA_2A-2A-4A-5A,CA_2A-2A-5A-66A,CA_2A-2A-13A-66A,CA_2A-2A-46C,CA_2A-2A-66A-66A,CA_2A-2A-66B,CA_2A-2A-66C,CA_2A-4A-4A-5A,CA_2A-4A-5B,CA_2A-5A-46C,CA_2A-5A-66A-66A,CA_2A-5A-66B,CA_2A-5A-66C,CA_2A-5B-66A,CA_2A-13A-46C,CA_2A-13A-48C,CA_2A-13A-66A-66A,CA_2A-13A-66B,CA_2A-13A-66C,CA_2A-46A-46C,CA_2A-46C-66A,CA_2A-46D,CA_2A-48A-48C,CA_2A-48C-66A,CA_2A-48D,CA_2A-48D-66A,CA_2A-66A-66A-66A,CA_4A-4A-5B,CA_4A-46A-46C,CA_4A-46D,CA_4A-48D,CA_5A-5A-66A-66A,CA_5A-5A-66B,CA_5A-5A-66C,CA_5A-46C-66A,CA_5A-46D,CA_5A-48D,CA_5B-46C,CA_5B-66A-66A,CA_5B-66B,CA_5B-66C,CA_13A-46C-66A,CA_13A-46D,CA_13A-48A-48C,CA_13A-48A-66B,CA_13A-48A-66C,CA_13A-48C-66A,CA_13A-48D,CA_46A-46C-66A,CA_46D-66A,CA_48A-48A-66A-66A,CA_48A-48A-66B,CA_48A-48A-66C,CA_48A-48C-66A,CA_48C-66A-66A,CA_48C-66B,CA



_48C-66C,CA_48D-66A,CA_48E,CA_2A-2A-5A-66A-66A,CA_2A-2A-5A-66B,CA_2A-2A-5A-66C,CA_2A-2A-13A-66A-66A,CA_2A-2A-46D,CA_2A-5A-46D,CA_2A-5B-66A-66A,CA_2A-5B-66B,CA_2A-5B-66C,CA_2A-13A-46D,CA_2A-13A-48D,CA_2A-13A-66A-66B,CA_2A-46A-46d,CA_2A-46D-66A,CA_2A-46E,CA_2A-48A-48D,CA_2A-48C-48C,CA_2A-48D-66A,CA_2A-48E,CA_4A-46A-46D,CA_4A-48E,CA_5A-46D-66A,CA_5A-46E,CA_5B-46D,CA_13A-46D-66A,CA_13A-46E,CA_13A-48A-48D,CA_13A-48C-48C,CA_13A-48D-66A,CA_13A-48E,CA_46A-46D-66A,CA_46D-66A-66A,CA_46E-66A,CA_48A-48C-66B,CA_48A-48C-66C,CA_48A-48D-66A,CA_48A-48E,CA_48C-48C-66A,CA_48C-48D,CA_48E-66A

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
UT28a	352950940201031	06	MW513U_ZZ_02.00_06	2022-05-09
UT32a	352950940201098	06	MW513U_ZZ_02.00_06	2022-05-11
UT89a	352950940003239	06	MW513U_ZZ_02.00_06	2022-07-11

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

3.3. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery
AE1	
Model	TLi044A7
Manufacturer	veken
Capacitance	4400mAh

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



4. Reference Documents

4.1. Documents supplied by applicant

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

4.2. Reference Documents for testing

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

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

5. Laboratory Environment

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

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

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

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	>2 MΩ
Ground system resistance	< 1 Ω
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

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

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	>2 MΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	<±3.5 dB, 3 m distance
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

6. Summary Of Test Result

First source:

LTE Band 2

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

LTE Band 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 48

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

LTE Band 66 (4)

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

Second source:
LTE Band 5

Items	Test Name	Clause in FCC rules	Verdict
2	Emission Limit	2.1051/22.917	P

Terms used in Verdict column

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

All the test results are based on normal power.

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

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.

UT89a is 2nd source sample of this project, according to the declaration, spot check measurements were performed on this device. Please refer Annex A for detail spot check verification data and reference data. The spot check test results are consistent with basic model. For detail differences between two models please refer the Declaration of Changes document.

7. Test Equipment Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Wideband Radio Communication Tester	CMW500	159082	R&S	2023-01-17	25 months
Spectrum Analyzer	FSU	200030	R&S	2022-06-02	1 year
Spectrum Analyzer	FSU	200030	R&S	2023-05-25	1 year
Signal&Spectrum Analyzer	FSW	104038	R&S	2022-06-24	1 year
Signal&Spectrum Analyzer	FSW	104038	R&S	2023-06-20	1 year
Radio Communication Analyzer	MT8821C	6201763159	Anritsu	2022-08-09	1 year
Climate Chamber	SH-242	93008556	ESPEC	2023-12-23	3 years
EMI Antenna	LB-7180-NF	J203001300005	Yinglian	2023-02-23	1 year
EMI Antenna	3117	00058889	ETS-Lindgren	2022-11-07	1 year
Signal Generator	N5183A	MY49060052	Agilent	2022-07-11	1 year
Test Receiver	E4440A	MY48250642	Agilent	2023-03-10	1 year
Universal Radio Communication Tester	CMW500	143008	R&S	2022-12-01	1 year
EMI Antenna	VULB9163	9163-482	Schwarzbeck	2022-11-16	1 year
Universal Radio Communication Tester	MT8821C	6262257899	Anritsu	2023-05-15	1 year
Universal Radio Communication Tester	MT8000A	MY48363198	Agilent	2022-07-07	1 year
Signal Generator	SMF100A	101295	R&S	2022-12-23	1 year

Note: The equipment N5183A, MT8000A were in Cal Due date when used for testing.

Annex A: Measurement Results

A.1 Output Power

A.1.1 Summary

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

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

A.1.2 Conducted

A.1.2.1 Method of Measurements

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

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

A.1.2.2 Measurement Result

LTE band 2

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1909.3	22.91	22.49	21.12	18.82
		1880.0	23.03	22.54	21.17	18.87
		1850.7	22.69	22.14	20.89	18.61
	1 RB low	1909.3	22.82	22.23	21.08	18.78
		1880.0	22.96	22.55	21.29	18.98
		1850.7	22.73	22.05	20.85	18.57
	50% RB mid	1909.3	22.98	22.05	21.22	18.91
		1880.0	23.05	22.17	21.18	18.87
		1850.7	22.77	21.82	20.92	18.64
	100% RB	1909.3	22.00	21.11	20.10	18.39
		1880.0	22.01	21.18	20.13	18.41
		1850.7	21.77	20.79	19.86	18.17
3MHz	1 RB high	1908.5	23.01	22.32	21.11	18.81
		1880.0	22.94	22.25	21.20	18.89
		1851.5	22.73	22.06	20.95	18.66
	1 RB low	1908.5	22.89	22.29	21.16	18.86
		1880.0	22.98	22.22	21.06	18.76
		1851.5	22.65	21.98	21.02	18.73
	50% RB mid	1908.5	22.02	21.11	20.09	18.38
		1880.0	22.00	21.05	20.12	18.40
		1851.5	21.79	20.92	19.90	18.20
	100% RB	1908.5	22.01	20.98	20.12	18.40

		1880.0	22.00	21.00	20.04	18.33
		1851.5	21.86	20.80	19.79	18.10
5MHz	1 RB high	1907.5	22.86	22.17	21.24	18.93
		1880.0	22.97	22.45	21.23	18.92
		1852.5	22.68	22.15	21.02	18.73
	1 RB low	1907.5	22.86	22.20	21.09	18.79
		1880.0	22.97	22.33	21.16	18.86
		1852.5	22.67	22.07	20.94	18.65
	50% RB mid	1907.5	22.02	21.09	20.14	18.42
		1880.0	21.98	21.08	20.10	18.39
		1852.5	21.79	20.82	19.97	18.27
	100% RB	1907.5	21.96	21.03	20.08	18.37
		1880.0	22.01	20.93	20.04	18.33
		1852.5	21.73	20.80	19.88	18.19
10MHz	1 RB high	1905.0	22.75	22.36	21.12	18.82
		1880.0	22.85	22.40	21.06	18.76
		1855.0	22.73	22.13	21.03	18.74
	1 RB low	1905.0	22.80	22.40	21.10	18.80
		1880.0	22.94	22.49	21.10	18.80
		1855.0	22.59	22.12	20.90	18.62
	50% RB mid	1905.0	21.89	20.95	20.03	18.32
		1880.0	21.90	20.96	20.00	18.30
		1855.0	21.76	20.89	19.89	18.19
	100% RB	1905.0	21.79	20.90	19.99	18.29
		1880.0	21.83	20.97	19.99	18.29
		1855.0	21.70	20.80	19.83	18.14
15MHz	1 RB high	1902.5	22.63	22.04	21.29	18.98
		1880.0	22.67	21.96	21.45	18.94
		1857.5	22.50	21.91	20.45	18.71
	1 RB low	1902.5	22.50	21.86	21.21	18.90
		1880.0	22.62	21.84	21.46	18.93
		1857.5	22.51	21.84	20.12	18.74
	50% RB mid	1902.5	21.59	20.71	20.30	18.57
		1880.0	21.65	20.78	20.25	18.52
		1857.5	21.62	20.71	19.25	18.34
	100% RB	1902.5	21.63	20.72	20.26	18.53
		1880.0	21.73	20.78	20.29	18.56
		1857.5	21.66	20.71	19.13	18.51
20MHz	1 RB high	1900.0	22.66	21.90	21.09	18.79
		1880.0	22.60	21.84	21.02	18.73
		1860.0	22.59	21.92	20.76	18.84
	1 RB low	1900.0	22.66	21.96	20.98	18.69



I22Z60940-WMD01

		1880.0	22.53	21.89	20.99	18.70
		1860.0	22.45	21.81	20.62	18.56
	50% RB mid	1900.0	21.75	20.82	19.84	18.15
		1880.0	21.72	20.77	19.77	18.08
		1860.0	21.61	20.72	19.69	18.01
	100% RB	1900.0	21.79	20.83	19.90	18.20
		1880.0	21.68	20.78	19.81	18.12
		1860.0	21.63	20.76	19.71	18.03

LTE band 4

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1754.3	22.62	21.73	20.83	17.69
		1732.5	22.60	21.64	20.78	17.70
		1710.7	22.35	21.54	20.60	17.54
	1 RB low	1754.3	22.79	21.85	21.03	17.85
		1732.5	22.79	21.91	21.04	17.92
		1710.7	22.63	21.83	20.73	17.72
	50% RB mid	1754.3	22.55	21.74	20.66	17.62
		1732.5	22.58	21.76	20.72	17.63
		1710.7	22.49	21.69	20.62	17.60
	100% RB	1754.3	21.54	20.65	19.74	17.59
		1732.5	21.47	20.57	19.52	17.48
		1710.7	21.41	20.46	19.44	17.50
3MHz	1 RB high	1753.5	22.70	21.89	20.97	17.78
		1732.5	22.71	21.94	21.05	17.75
		1711.5	22.55	21.65	20.80	17.81
	1 RB low	1753.5	22.80	21.91	20.94	17.85
		1732.5	22.82	22.01	21.03	17.81
		1711.5	22.60	21.83	20.89	17.66
	50% RB mid	1753.5	21.56	20.66	19.61	17.64
		1732.5	21.64	20.66	19.63	17.61
		1711.5	21.59	20.63	19.59	17.66
	100% RB	1753.5	21.59	20.59	19.59	17.58
		1732.5	21.55	20.54	19.58	17.57
		1711.5	21.58	20.62	19.61	17.62
5MHz	1 RB high	1752.5	22.82	22.03	20.84	17.94
		1732.5	22.81	22.06	20.86	17.96
		1712.5	22.68	21.86	20.79	17.79
	1 RB low	1752.5	22.83	22.03	20.94	17.98
		1732.5	22.80	22.04	20.89	17.82
		1712.5	22.67	21.85	20.82	17.75
	50% RB mid	1752.5	21.62	20.73	19.62	17.67
		1732.5	21.65	20.73	19.57	17.64
		1712.5	21.67	20.70	19.71	17.69
	100% RB	1752.5	21.65	20.64	19.67	17.63
		1732.5	21.59	20.62	19.62	17.61
		1712.5	21.63	20.62	19.63	17.65
10MHz	1 RB high	1750.0	22.85	21.96	21.08	17.96
		1732.5	22.84	22.01	21.09	18.05
		1715.0	22.78	21.88	21.02	17.95

	1 RB low	1750.0	22.80	22.00	21.08	18.01
		1732.5	22.82	21.87	21.03	17.89
		1715.0	22.73	21.78	20.97	17.74
	50% RB mid	1750.0	21.64	20.68	19.68	17.68
		1732.5	21.66	20.68	19.72	17.71
		1715.0	21.74	20.78	19.77	17.75
	100% RB	1750.0	21.70	20.71	19.69	17.71
		1732.5	21.60	20.60	19.61	17.62
		1715.0	21.68	20.71	19.71	17.73
15MHz	1 RB high	1747.5	22.74	21.95	20.99	17.88
		1732.5	22.69	21.89	20.95	17.79
		1717.5	22.69	21.94	20.88	17.78
	1 RB low	1747.5	22.63	21.91	20.78	17.77
		1732.5	22.65	21.76	20.87	17.78
		1717.5	22.55	21.72	20.66	17.52
	50% RB mid	1747.5	21.54	20.53	19.55	17.56
		1732.5	21.60	20.54	19.62	17.53
		1717.5	21.69	20.65	19.67	17.65
	100% RB	1747.5	21.56	20.57	19.57	17.58
		1732.5	21.51	20.48	19.51	17.54
		1717.5	21.61	20.64	19.64	17.63
20MHz	1 RB high	1745.0	22.72	21.96	21.01	18.05
		1732.5	22.76	22.03	20.84	18.01
		1720.0	22.79	22.05	21.09	18.09
	1 RB low	1745.0	22.64	21.97	20.97	18.02
		1732.5	22.57	21.84	20.88	17.81
		1720.0	22.49	21.82	20.76	17.80
	50% RB mid	1745.0	21.57	20.61	19.57	17.60
		1732.5	21.63	20.56	19.62	17.58
		1720.0	21.72	20.72	19.72	17.71
	100% RB	1745.0	21.59	20.60	19.59	17.59
		1732.5	21.50	20.51	19.54	17.54
		1720.0	21.70	20.69	19.69	17.70

LTE band 5

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	22.99	22.10	21.18	18.57
		836.5	23.53	22.86	21.93	18.95
		824.7	23.44	22.84	21.83	18.87
	1 RB low	848.3	23.40	22.58	21.61	18.68
		836.5	23.65	22.93	21.93	18.95
		824.7	23.46	22.69	21.96	18.98
	50% RB mid	848.3	23.19	22.33	21.50	18.59
		836.5	23.62	22.84	21.95	18.97
		824.7	23.51	22.61	21.78	18.83
	100% RB	848.3	22.33	21.43	20.50	18.30
		836.5	22.64	21.71	20.86	18.60
		824.7	22.48	21.61	20.73	18.49
3MHz	1 RB high	847.5	23.14	22.30	21.43	18.53
		836.5	23.58	22.74	21.99	19.00
		825.5	23.36	22.61	21.90	18.93
	1 RB low	847.5	23.68	22.95	21.83	18.87
		836.5	23.44	22.85	21.78	18.83
		825.5	23.41	22.94	21.70	18.76
	50% RB mid	847.5	22.77	21.78	20.92	18.65
		836.5	22.64	21.81	20.92	18.65
		825.5	22.48	21.63	20.72	18.48
	100% RB	847.5	22.74	21.75	20.91	18.64
		836.5	22.55	21.59	20.75	18.51
		825.5	22.49	21.46	20.72	18.48
5MHz	1 RB high	846.5	23.31	22.38	21.53	18.61
		836.5	23.53	22.91	21.91	18.93
		826.5	23.45	22.76	21.76	18.81
	1 RB low	846.5	23.68	22.86	21.85	18.88
		836.5	23.41	22.84	21.92	18.94
		826.5	23.41	22.75	21.83	18.87
	50% RB mid	846.5	22.77	21.79	21.00	18.72
		836.5	22.61	21.62	20.79	18.54
		826.5	22.54	21.57	20.79	18.54
	100% RB	846.5	22.66	21.69	20.94	18.67
		836.5	22.47	21.56	20.75	18.51
		826.5	22.45	21.52	20.77	18.52
10MHz	1 RB high	844.0	23.62	22.87	21.87	18.90
		836.5	23.54	22.83	21.82	18.86
		829.0	23.45	22.85	21.70	18.76



	1 RB low	844.0	23.56	22.96	22.00	18.94
		836.5	23.52	22.91	21.71	18.77
		829.0	23.38	22.67	21.94	18.96
	50% RB mid	844.0	22.73	21.70	20.93	18.66
		836.5	22.49	21.57	20.83	18.57
		829.0	22.53	21.55	20.79	18.54
	100% RB	844.0	22.68	21.66	20.99	18.71
		836.5	22.43	21.52	20.69	18.46
		829.0	22.52	21.43	20.70	18.46

LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	23.02	21.79	20.82	17.66
		2535.0	23.27	22.41	21.25	18.02
		2502.5	23.10	22.50	21.24	18.01
	1 RB low	2567.5	22.46	21.33	20.28	17.22
		2535.0	23.08	22.39	21.24	18.01
		2502.5	22.66	21.88	20.73	17.59
	50% RB mid	2567.5	21.60	20.38	19.33	17.24
		2535.0	22.49	21.39	20.37	17.29
		2502.5	22.20	21.13	20.21	17.16
	100% RB	2567.5	21.63	20.45	19.48	17.14
		2535.0	22.51	21.43	20.43	17.34
		2502.5	22.16	21.11	20.27	17.21
10MHz	1 RB high	2565.0	22.53	22.41	21.39	17.67
		2535.0	22.69	22.73	21.84	18.03
		2505.0	23.11	22.14	21.34	17.63
	1 RB low	2565.0	22.34	22.56	21.65	17.88
		2535.0	22.77	22.48	21.81	18.01
		2505.0	22.21	22.17	21.41	17.69
	50% RB mid	2565.0	21.02	21.48	20.52	17.07
		2535.0	21.85	21.49	20.73	17.14
		2505.0	21.93	20.98	20.20	17.02
	100% RB	2565.0	21.21	21.36	20.55	17.00
		2535.0	21.99	21.38	20.63	17.06
		2505.0	21.91	20.98	20.16	17.09
15MHz	1 RB high	2562.5	22.83	21.73	20.67	17.29
		2535.0	23.32	22.65	21.41	17.90
		2507.5	22.84	22.15	21.25	17.77
	1 RB low	2562.5	23.54	22.91	21.86	18.26
		2535.0	23.24	22.88	21.55	18.01
		2507.5	22.67	21.74	20.62	17.25
	50% RB mid	2562.5	22.13	20.83	19.71	17.02
		2535.0	22.48	21.37	20.34	17.03
		2507.5	21.94	21.03	20.24	17.03
	100% RB	2562.5	22.27	21.03	20.00	17.11
		2535.0	22.55	21.59	20.55	17.20
		2507.5	21.99	21.09	20.22	17.06
20MHz	1 RB high	2560.0	22.64	21.42	20.32	17.08
		2535.0	23.50	22.71	21.55	17.87
		2510.0	23.11	22.40	21.11	17.52



I22Z60940-WMD01

	1 RB low	2560.0	23.53	22.51	21.99	18.23
		2535.0	23.15	22.48	21.72	18.01
		2510.0	22.91	22.09	21.08	17.49
	50% RB mid	2560.0	22.16	21.02	20.02	17.89
		2535.0	22.19	21.19	20.21	18.06
		2510.0	22.04	21.11	20.00	17.88
	100% RB	2560.0	22.29	21.20	20.22	18.07
		2535.0	22.43	21.47	20.49	18.30
		2510.0	22.11	21.09	20.06	17.93

LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	23.06	22.62	21.47	17.48
		707.5	23.13	22.57	21.31	17.35
		699.7	23.09	22.38	21.29	17.33
	1 RB low	715.3	23.10	22.65	21.42	17.43
		707.5	23.18	22.54	21.35	17.38
		699.7	23.15	22.59	21.22	17.27
	50% RB mid	715.3	23.23	22.44	21.36	18.50
		707.5	23.19	22.34	21.38	18.51
		699.7	23.22	22.25	21.35	18.49
	100% RB	715.3	22.26	21.26	20.21	17.50
		707.5	22.23	21.33	20.20	17.49
		699.7	22.15	21.29	20.18	17.47
3MHz	1 RB high	714.5	23.17	22.46	21.63	17.61
		707.5	23.23	22.48	21.65	17.62
		700.5	23.07	22.48	21.56	17.55
	1 RB low	714.5	23.23	22.68	21.44	17.45
		707.5	23.20	22.46	21.54	17.53
		700.5	23.15	22.54	21.52	17.52
	50% RB mid	714.5	22.31	21.47	20.48	17.73
		707.5	22.33	21.34	20.53	17.78
		700.5	22.22	21.39	20.54	17.79
	100% RB	714.5	22.26	21.31	20.47	17.73
		707.5	22.28	21.23	20.34	17.61
		700.5	22.27	21.25	20.45	17.71
5MHz	1 RB high	713.5	23.21	22.67	21.64	17.61
		707.5	23.19	22.59	21.57	17.56
		701.5	23.23	22.56	21.57	17.56
	1 RB low	713.5	23.22	22.70	21.67	17.64
		707.5	23.28	22.66	21.50	17.50
		701.5	23.13	22.61	21.55	17.54
	50% RB mid	713.5	22.31	21.31	20.54	17.79
		707.5	22.22	21.29	20.39	17.66
		701.5	22.29	21.29	20.50	17.75
	100% RB	713.5	22.30	21.31	20.42	17.68
		707.5	22.19	21.22	20.41	17.67
		701.5	22.30	21.29	20.41	17.67
10MHz	1 RB high	711.0	23.22	22.73	21.77	17.82
		707.5	23.23	22.83	21.45	17.56
		704.0	23.23	22.62	21.35	17.48



I22Z60940-WMD01

	1 RB low	711.0	23.24	22.78	21.50	17.60
		707.5	23.15	22.63	21.38	17.50
		704.0	23.24	22.65	21.46	17.57
	50% RB mid	711.0	22.27	21.36	20.28	17.71
		707.5	22.15	21.33	20.22	17.66
		704.0	22.32	21.33	20.34	17.76
	100% RB	711.0	22.15	21.17	20.22	17.66
		707.5	22.23	21.19	20.27	17.70
		704.0	22.28	21.25	20.31	17.73

LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	23.04	22.73	21.56	18.78
		782.0	23.15	22.53	21.57	18.78
		779.5	23.23	22.56	21.69	18.89
	1 RB low	784.5	23.17	22.65	21.69	18.89
		782.0	23.19	22.60	21.63	18.84
		779.5	23.27	22.72	21.75	18.95
	50% RB mid	784.5	22.25	21.31	20.54	18.36
		782.0	22.16	21.17	20.52	18.35
		779.5	22.30	21.36	20.46	18.29
	100% RB	784.5	22.23	21.20	20.53	18.35
		782.0	22.18	21.21	20.42	18.26
		779.5	22.20	21.23	20.47	18.30
10MHz	1 RB high	782.0	23.14	22.64	21.58	18.79
	1 RB low	782.0	23.12	22.69	21.89	18.97
	50% RB mid	782.0	22.15	21.24	20.40	18.24
	100% RB	782.0	22.17	21.19	20.50	18.33

LTE band 48

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3697.5	21.77	20.96	20.01	16.71
		3625.0	21.97	21.01	19.92	16.64
		3552.5	22.54	21.47	20.53	17.14
	1 RB low	3697.5	21.78	20.86	19.82	16.55
		3625.0	22.02	20.92	19.86	16.59
		3552.5	22.56	21.49	20.68	17.27
	50% RB mid	3697.5	20.95	19.82	19.08	16.83
		3625.0	21.05	20.04	19.26	16.99
		3552.5	21.59	20.62	19.83	17.50
	100% RB	3697.5	20.88	19.90	19.08	16.83
		3625.0	21.01	20.04	19.16	16.90
		3552.5	21.51	20.50	19.65	17.34
10MHz	1 RB high	3695.0	21.83	20.90	20.04	16.74
		3625.0	22.02	21.10	20.19	16.86
		3555.0	22.45	21.62	20.76	17.34
	1 RB low	3695.0	21.89	20.92	20.03	16.73
		3625.0	21.91	21.06	20.30	16.95
		3555.0	22.57	21.60	20.68	17.27
	50% RB mid	3695.0	20.93	19.96	19.11	16.86
		3625.0	21.03	20.04	19.27	17.00
		3555.0	21.57	20.61	19.75	17.43
	100% RB	3695.0	20.86	19.91	19.05	16.81
		3625.0	21.01	19.99	19.20	16.94
		3555.0	21.45	20.49	19.66	17.35
15MHz	1 RB high	3692.5	21.60	20.75	19.57	16.34
		3625.0	21.74	20.80	19.98	16.69
		3557.5	22.31	21.36	20.42	17.05
	1 RB low	3692.5	21.61	20.72	19.93	16.64
		3625.0	21.73	20.96	19.83	16.56
		3557.5	22.30	21.36	20.49	17.11
	50% RB mid	3692.5	20.74	19.78	18.93	16.70
		3625.0	20.86	19.87	19.04	16.80
		3557.5	21.33	20.38	19.59	17.28
	100% RB	3692.5	20.72	19.71	18.95	16.72
		3625.0	20.86	19.88	19.10	16.85
		3557.5	21.34	20.34	19.50	17.20
20MHz	1 RB high	3690.0	21.47	20.57	19.67	16.59



I22Z60940-WMD01

		3625.0	21.60	20.79	19.63	16.55
		3560.0	22.12	21.04	20.22	17.05
	1 RB low	3690.0	21.63	20.63	19.80	16.69
		3625.0	21.61	20.57	19.64	16.56
		3560.0	22.24	21.30	20.19	17.02
	50% RB mid	3690.0	20.60	19.67	18.85	16.73
		3625.0	20.72	19.80	18.98	16.84
		3560.0	21.19	20.27	19.52	17.32
	100% RB	3690.0	20.62	19.64	18.83	16.71
		3625.0	20.72	19.78	18.97	16.83
		3560.0	21.16	20.22	19.46	17.27

LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.00	22.58	21.38	18.94
		1745.0	23.02	22.34	21.29	18.86
		1710.7	22.78	22.34	21.16	18.74
	1 RB low	1779.3	23.02	22.46	21.35	18.91
		1745.0	23.01	22.38	21.20	18.78
		1710.7	22.81	22.16	21.12	18.70
	50% RB mid	1779.3	23.10	22.35	21.29	18.86
		1745.0	23.05	22.22	21.22	18.79
		1710.7	22.80	22.04	21.11	18.69
	100% RB	1779.3	22.06	21.16	20.17	18.43
		1745.0	22.03	21.17	20.21	18.47
		1710.7	21.86	20.98	20.00	18.28
3MHz	1 RB high	1778.5	23.02	22.40	21.34	18.90
		1745.0	22.94	22.55	21.15	18.73
		1711.5	22.85	22.17	21.08	18.67
	1 RB low	1778.5	22.98	22.50	21.41	18.97
		1745.0	23.00	22.31	21.07	18.66
		1711.5	22.80	22.08	21.13	18.71
	50% RB mid	1778.5	21.97	21.17	20.17	18.43
		1745.0	22.08	21.20	20.31	18.56
		1711.5	21.88	20.92	20.04	18.32
	100% RB	1778.5	21.98	21.04	20.18	18.44
		1745.0	22.00	21.11	20.14	18.41
		1711.5	21.93	20.89	20.03	18.31
5MHz	1 RB high	1777.5	22.89	22.33	21.60	18.94
		1745.0	23.03	22.50	21.41	18.97
		1712.5	22.74	22.18	21.03	18.62
	1 RB low	1777.5	23.02	22.48	21.28	18.85
		1745.0	23.03	22.47	21.22	18.79
		1712.5	22.72	22.11	20.97	18.57
	50% RB mid	1777.5	22.12	21.25	20.20	18.46
		1745.0	22.04	21.15	20.19	18.45
		1712.5	21.91	20.96	20.03	18.31
	100% RB	1777.5	22.08	21.15	20.18	18.44
		1745.0	22.00	21.05	20.10	18.37
		1712.5	21.87	20.91	20.02	18.30
10MHz	1 RB high	1775.0	22.91	22.51	21.42	18.98
		1745.0	23.03	22.61	21.32	18.89
		1715.0	22.82	22.41	21.12	18.70

	1 RB low	1775.0	23.06	22.40	21.29	18.86
		1745.0	22.96	22.38	21.14	18.72
		1715.0	22.81	22.18	21.04	18.63
	50% RB mid	1775.0	22.06	21.11	20.17	18.43
		1745.0	22.08	21.02	20.10	18.37
		1715.0	21.98	20.96	20.04	18.32
	100% RB	1775.0	22.05	20.97	20.18	18.44
		1745.0	21.96	21.05	20.16	18.42
		1715.0	21.92	20.91	19.99	18.27
15MHz	1 RB high	1772.5	22.76	22.17	20.90	18.50
		1745.0	22.92	22.14	21.16	18.74
		1717.5	22.80	22.09	21.10	18.68
	1 RB low	1772.5	22.88	22.26	21.04	18.63
		1745.0	22.81	22.44	21.07	18.66
		1717.5	22.68	22.03	20.95	18.55
	50% RB mid	1772.5	21.97	20.96	20.11	18.38
		1745.0	21.90	20.91	20.10	18.37
		1717.5	21.81	20.84	19.94	18.22
	100% RB	1772.5	21.96	20.99	20.12	18.39
		1745.0	21.87	20.93	20.04	18.32
		1717.5	21.81	20.84	19.97	18.25
20MHz	1 RB high	1770.0	22.77	22.28	21.01	18.60
		1745.0	23.03	22.11	21.30	18.87
		1720.0	22.80	22.18	20.98	18.57
	1 RB low	1770.0	22.87	22.00	21.65	18.99
		1745.0	22.90	22.10	21.22	18.79
		1720.0	22.66	21.83	21.17	18.75
	50% RB mid	1770.0	21.95	21.03	20.11	18.38
		1745.0	21.82	20.86	20.04	18.32
		1720.0	21.87	20.92	19.93	18.21
	100% RB	1770.0	21.95	21.03	20.13	18.40
		1745.0	21.93	20.91	19.97	18.25
		1720.0	21.84	20.89	20.00	18.28

LTE CA Band 5B

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
3MHz/ 5MHz	834.1	838	QPSK	1	14	1	0	24.56
				15	0	25	0	24.36
			16QAM	1	14	1	0	23.40
				15	0	25	0	23.38
			64QAM	1	14	1	0	22.55
				15	0	25	0	22.34
256QAM	1	14	1	0	21.34			
	15	0	25	0	21.36			
5MHz/ 3MHz	835	838.9	QPSK	1	24	1	0	23.90
				25	0	15	0	23.94
			16QAM	1	24	1	0	22.87
				25	0	15	0	23.01
			64QAM	1	24	1	0	21.82
				25	0	15	0	21.98
256QAM	1	24	1	0	20.90			
	25	0	15	0	21.01			
5MHz/ 10MHz	831.8	839	QPSK	1	24	1	0	24.64
				25	0	50	0	22.62
			16QAM	1	24	1	0	23.64
				25	0	50	0	21.52
			64QAM	1	24	1	0	22.36
				25	0	50	0	21.53
256QAM	1	24	1	0	19.46			
	25	0	50	0	19.50			
10MHz/ 5MHz	834	841.2	QPSK	1	49	1	0	24.54
				50	0	25	0	22.64
			16QAM	1	49	1	0	23.58
				50	0	25	0	21.63
			64QAM	1	49	1	0	22.12
				50	0	25	0	21.67
256QAM	1	49	1	0	19.51			
	50	0	25	0	19.72			
10MHz/ 10MHz	831.6	841.5	QPSK	1	49	1	0	24.47
				50	0	50	0	22.52
			16QAM	1	49	1	0	23.55
				50	0	50	0	21.54
			64QAM	1	49	1	0	22.23
				50	0	50	0	21.50
256QAM	1	49	1	0	19.56			



I22Z60940-WMD01

				50	0	50	0	19.59
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LTE CA Band 48C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/ 20MHz	3615.8	3627.5	QPSK	1	24	1	0	21.62
				25	0	100	0	19.76
			16QAM	1	24	1	0	20.68
				25	0	100	0	18.81
			64QAM	1	24	1	0	19.49
				25	0	100	0	18.83
			256QAM	1	24	1	0	16.47
				25	0	100	0	16.81
10MHz/ 20MHz	3615.6	3630	QPSK	1	74	1	0	21.62
				75	0	100	0	19.69
			16QAM	1	74	1	0	20.56
				75	0	100	0	18.89
			64QAM	1	74	1	0	19.67
				75	0	100	0	18.91
			256QAM	1	74	1	0	16.69
				75	0	100	0	16.86
15MHz/ 20MHz	3615.3	3632.4	QPSK	1	99	1	0	21.39
				100	0	75	0	19.93
			16QAM	1	99	1	0	20.42
				100	0	75	0	18.93
			64QAM	1	99	1	0	19.71
				100	0	75	0	18.66
			256QAM	1	99	1	0	16.63
				100	0	75	0	16.91
20MHz/ 5MHz	3622.5	3634.2	QPSK	1	99	1	0	21.71
				100	0	100	0	19.68
			16QAM	1	99	1	0	20.45
				100	0	100	0	18.66
			64QAM	1	99	1	0	19.60
				100	0	100	0	18.95
			256QAM	1	99	1	0	16.62
				100	0	100	0	16.75
20MHz/ 10MHz	3620.1	3634.5	QPSK	1	24	1	0	21.69
				25	0	100	0	19.72
			16QAM	1	24	1	0	20.46
				25	0	100	0	18.69
			64QAM	1	24	1	0	19.47
				25	0	100	0	18.84
			256QAM	1	24	1	0	16.47

				25	0	100	0	17.02
20MHz/ 15MHz	3617.6	3634.7	QPSK	1	49	1	0	21.38
				50	0	100	0	19.94
			16QAM	1	49	1	0	20.38
				50	0	100	0	18.77
			64QAM	1	49	1	0	19.73
				50	0	100	0	18.78
256QAM	1	49	1	0	16.41			
	50	0	100	0	16.81			
20MHz/ 20MHz	3615.1	3634.9	QPSK	1	74	1	0	21.43
				75	0	100	0	19.87
			16QAM	1	74	1	0	20.41
				75	0	100	0	19.14
			64QAM	1	74	1	0	19.58
				75	0	100	0	19.06
256QAM	1	74	1	0	16.71			
	75	0	100	0	17.13			

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	23.98
				25	0	25	0	21.98
			16QAM	1	24	1	0	23.00
				25	0	25	0	21.05
			64QAM	1	24	1	0	22.00
				25	0	25	0	21.04
			256QAM	1	24	1	0	19.07
				25	0	25	0	19.04
5MHz/ 10MHz	1750.3	1757.5	QPSK	1	24	1	0	23.87
				25	0	50	0	21.89
			16QAM	1	24	1	0	22.95
				25	0	50	0	20.87
			64QAM	1	24	1	0	21.93
				25	0	50	0	20.87
			256QAM	1	24	1	0	18.92
				25	0	50	0	18.88
5MHz/ 15MHz	1748.1	1757.4	QPSK	1	24	1	0	23.82
				25	0	75	0	21.83
			16QAM	1	24	1	0	22.81
				25	0	75	0	20.80
			64QAM	1	24	1	0	21.85
				25	0	75	0	20.82
			256QAM	1	24	1	0	18.83
				25	0	75	0	18.80
10MHz/ 5MHz	1752.5	1759.7	QPSK	1	49	1	0	23.95
				50	0	25	0	21.97
			16QAM	1	49	1	0	22.96
				50	0	25	0	21.01
			64QAM	1	49	1	0	22.00
				50	0	25	0	21.00
			256QAM	1	49	1	0	18.97
				50	0	25	0	18.99
10MHz/ 10MHz	1750.1	1760	QPSK	1	49	1	0	23.90
				50	0	50	0	21.83
			16QAM	1	49	1	0	22.81
				50	0	50	0	20.82
			64QAM	1	49	1	0	21.87
				50	0	50	0	20.80
			256QAM	1	49	1	0	18.73



I22Z60940-WMD01

				50	0	50	0	18.76
15MHz/ 5MHz	1752.6	1761.9	QPSK	1	74	1	0	24.02
				75	0	25	0	21.88
			16QAM	1	74	1	0	22.94
				75	0	25	0	20.83
			64QAM	1	74	1	0	21.95
				75	0	25	0	20.89
			256QAM	1	74	1	0	18.80
				75	0	25	0	18.84

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	23.66			
				25	0	100	0	21.74			
			16QAM	1	24	1	0	22.70			
				25	0	100	0	20.66			
			64QAM	1	24	1	0	21.64			
				25	0	100	0	20.72			
			256QAM	1	24	1	0	18.64			
				25	0	100	0	18.73			
			10MHz/ 15MHz	1747.9	1757.9	QPSK	1	49	1	0	23.82
							50	0	75	0	21.79
16QAM	1	49				1	0	22.82			
	50	0				75	0	20.74			
64QAM	1	49				1	0	21.86			
	50	0				75	0	20.80			
256QAM	1	49				1	0	18.75			
	50	0				75	0	18.80			
10MHz/ 20MHz	1745.6	1760.0				QPSK	1	49	1	0	23.84
							50	0	100	0	21.77
			16QAM	1	49	1	0	22.78			
				50	0	100	0	0.00			
			64QAM	1	49	1	0	21.70			
				50	0	100	0	20.60			
			256QAM	1	49	1	0	18.60			
				50	0	100	0	18.67			
			15MHz/ 10MHz	1750.1	1762.1	QPSK	1	74	1	0	23.84
							75	0	50	0	21.77
16QAM	1	74				1	0	22.83			
	75	0				50	0	20.80			
64QAM	1	74				1	0	21.98			
	75	0				50	0	20.83			
256QAM	1	74				1	0	18.87			
	75	0				50	0	18.77			
15MHz/ 15MHz	1747.5	1762.5				QPSK	1	74	1	0	23.81
							75	0	75	0	21.79
			16QAM	1	74	1	0	22.85			
				75	0	75	0	20.71			
			64QAM	1	74	1	0	21.89			
				75	0	75	0	20.77			
			256QAM	1	74	1	0	18.77			

				75	0	75	0	18.77
15MHz/ 20MHz	1745.3	1762.4	QPSK	1	74	1	0	23.82
				75	0	100	0	21.72
			16QAM	1	74	1	0	22.83
				75	0	100	0	20.65
			64QAM	1	74	1	0	21.84
				75	0	100	0	20.66
256QAM	1	74	1	0	18.63			
	75	0	100	0	18.65			
20MHz/ 5MHz	1752.5	1764.2	QPSK	1	99	1	0	23.87
				100	0	25	0	21.88
			16QAM	1	99	1	0	22.88
				100	0	25	0	20.81
			64QAM	1	99	1	0	21.81
				100	0	25	0	20.87
256QAM	1	99	1	0	18.81			
	100	0	25	0	18.78			
20MHz/ 10MHz	1750.1	1764.5	QPSK	1	99	1	0	23.84
				100	0	50	0	21.78
			16QAM	1	99	1	0	22.81
				100	0	50	0	20.77
			64QAM	1	99	1	0	21.92
				100	0	50	0	20.82
256QAM	1	99	1	0	18.92			
	100	0	50	0	18.78			
20MHz/ 15MHz	1747.6	1764.7	QPSK	1	99	1	0	23.97
				100	0	75	0	21.78
			16QAM	1	99	1	0	23.02
				100	0	75	0	20.78
			64QAM	1	99	1	0	22.04
				100	0	75	0	20.82
256QAM	1	99	1	0	18.94			
	100	0	75	0	18.77			
20MHz/ 20MHz	1745.1	1764.9	QPSK	1	99	1	0	23.95
				100	0	100	0	21.77
			16QAM	1	99	1	0	22.92
				100	0	100	0	20.73
			64QAM	1	99	1	0	21.94
				100	0	100	0	20.77
256QAM	1	99	1	0	18.78			
	100	0	100	0	18.72			

A.1.3.3 Measurement result

LTE Band 2-EIRP

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

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 2.3dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1909.3	22.91	22.49	21.12	18.82	25.21	24.79	23.42	21.12
		1880	23.03	22.54	21.17	18.87	25.33	24.84	23.47	21.17
		1850.7	22.69	22.14	20.89	18.61	24.99	24.44	23.19	20.91
	1 RB low	1909.3	22.82	22.23	21.08	18.78	25.12	24.53	23.38	21.08
		1880	22.96	22.55	21.29	18.98	25.26	24.85	23.59	21.28
		1850.7	22.73	22.05	20.85	18.57	25.03	24.35	23.15	20.87
	50% RB mid	1909.3	22.98	22.05	21.22	18.91	25.28	24.35	23.52	21.21
		1880	23.05	22.17	21.18	18.87	25.35	24.47	23.48	21.17
		1850.7	22.77	21.82	20.92	18.64	25.07	24.12	23.22	20.94
	100% RB	1909.3	22	21.11	20.1	18.39	24.30	23.41	22.40	20.69
		1880	22.01	21.18	20.13	18.41	24.31	23.48	22.43	20.71
		1850.7	21.77	20.79	19.86	18.17	24.07	23.09	22.16	20.47
3MHz	1 RB high	1908.5	23.01	22.32	21.11	18.81	25.31	24.62	23.41	21.11
		1880	22.94	22.25	21.2	18.89	25.24	24.55	23.50	21.19
		1851.5	22.73	22.06	20.95	18.66	25.03	24.36	23.25	20.96
	1 RB low	1908.5	22.89	22.29	21.16	18.86	25.19	24.59	23.46	21.16
		1880	22.98	22.22	21.06	18.76	25.28	24.52	23.36	21.06
		1851.5	22.65	21.98	21.02	18.73	24.95	24.28	23.32	21.03
	50% RB mid	1908.5	22.02	21.11	20.09	18.38	24.32	23.41	22.39	20.68
		1880	22	21.05	20.12	18.4	24.30	23.35	22.42	20.70
		1851.5	21.79	20.92	19.9	18.2	24.09	23.22	22.20	20.50
	100% RB	1908.5	22.01	20.98	20.12	18.4	24.31	23.28	22.42	20.70
		1880	22	21	20.04	18.33	24.30	23.30	22.34	20.63
		1851.5	21.86	20.8	19.79	18.1	24.16	23.10	22.09	20.40
5MHz	1 RB high	1907.5	22.86	22.17	21.24	18.93	25.16	24.47	23.54	21.23
		1880	22.97	22.45	21.23	18.92	25.27	24.75	23.53	21.22
		1852.5	22.68	22.15	21.02	18.73	24.98	24.45	23.32	21.03
	1 RB low	1907.5	22.86	22.2	21.09	18.79	25.16	24.50	23.39	21.09
		1880	22.97	22.33	21.16	18.86	25.27	24.63	23.46	21.16
		1852.5	22.67	22.07	20.94	18.65	24.97	24.37	23.24	20.95
	50% RB mid	1907.5	22.02	21.09	20.14	18.42	24.32	23.39	22.44	20.72
		1880	21.98	21.08	20.1	18.39	24.28	23.38	22.40	20.69
		1852.5	21.79	20.82	19.97	18.27	24.09	23.12	22.27	20.57
	100% RB	1907.5	21.96	21.03	20.08	18.37	24.26	23.33	22.38	20.67
		1880	22.01	20.93	20.04	18.33	24.31	23.23	22.34	20.63
		1852.5	21.73	20.8	19.88	18.19	24.03	23.10	22.18	20.49

10MHz	1 RB high	1905	22.75	22.36	21.12	18.82	25.05	24.66	23.42	21.12
		1880	22.85	22.4	21.06	18.76	25.15	24.70	23.36	21.06
		1855	22.73	22.13	21.03	18.74	25.03	24.43	23.33	21.04
	1 RB low	1905	22.8	22.4	21.1	18.8	25.10	24.70	23.40	21.10
		1880	22.94	22.49	21.1	18.8	25.24	24.79	23.40	21.10
		1855	22.59	22.12	20.9	18.62	24.89	24.42	23.20	20.92
	50% RB mid	1905	21.89	20.95	20.03	18.32	24.19	23.25	22.33	20.62
		1880	21.9	20.96	20	18.3	24.20	23.26	22.30	20.60
		1855	21.76	20.89	19.89	18.19	24.06	23.19	22.19	20.49
100% RB	1905	21.79	20.9	19.99	18.29	24.09	23.20	22.29	20.59	
	1880	21.83	20.97	19.99	18.29	24.13	23.27	22.29	20.59	
	1855	21.7	20.8	19.83	18.14	24.00	23.10	22.13	20.44	
15MHz	1 RB high	1902.5	22.63	22.04	21.29	18.98	24.93	24.34	23.59	21.28
		1880	22.67	21.96	21.45	18.94	24.97	24.26	23.75	21.24
		1857.5	22.5	21.91	20.45	18.71	24.80	24.21	22.75	21.01
	1 RB low	1902.5	22.5	21.86	21.21	18.9	24.80	24.16	23.51	21.20
		1880	22.62	21.84	21.46	18.93	24.92	24.14	23.76	21.23
		1857.5	22.51	21.84	20.12	18.74	24.81	24.14	22.42	21.04
	50% RB mid	1902.5	21.59	20.71	20.3	18.57	23.89	23.01	22.60	20.87
		1880	21.65	20.78	20.25	18.52	23.95	23.08	22.55	20.82
		1857.5	21.62	20.71	19.25	18.34	23.92	23.01	21.55	20.64
100% RB	1902.5	21.63	20.72	20.26	18.53	23.93	23.02	22.56	20.83	
	1880	21.73	20.78	20.29	18.56	24.03	23.08	22.59	20.86	
	1857.5	21.66	20.71	19.13	18.51	23.96	23.01	21.43	20.81	
20MHz	1 RB high	1900	22.66	21.9	21.09	18.79	24.96	24.20	23.39	21.09
		1880	22.6	21.84	21.02	18.73	24.90	24.14	23.32	21.03
		1860	22.59	21.92	20.76	18.84	24.89	24.22	23.06	21.14
	1 RB low	1900	22.66	21.96	20.98	18.69	24.96	24.26	23.28	20.99
		1880	22.53	21.89	20.99	18.7	24.83	24.19	23.29	21.00
		1860	22.45	21.81	20.62	18.56	24.75	24.11	22.92	20.86
	50% RB mid	1900	21.75	20.82	19.84	18.15	24.05	23.12	22.14	20.45
		1880	21.72	20.77	19.77	18.08	24.02	23.07	22.07	20.38
		1860	21.61	20.72	19.69	18.01	23.91	23.02	21.99	20.31
100% RB	1900	21.79	20.83	19.9	18.2	24.09	23.13	22.20	20.50	
	1880	21.68	20.78	19.81	18.12	23.98	23.08	22.11	20.42	
	1860	21.63	20.76	19.71	18.03	23.93	23.06	22.01	20.33	

LTE Band 4-EIRP
Limits: ≤30dBm(1W)

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 2.6dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1754.3	22.62	21.73	20.83	17.69	25.22	24.33	23.43	20.29
		1732.5	22.6	21.64	20.78	17.7	25.20	24.24	23.38	20.30
		1710.7	22.35	21.54	20.6	17.54	24.95	24.14	23.20	20.14
	1 RB low	1754.3	22.79	21.85	21.03	17.85	25.39	24.45	23.63	20.45
		1732.5	22.79	21.91	21.04	17.92	25.39	24.51	23.64	20.52
		1710.7	22.63	21.83	20.73	17.72	25.23	24.43	23.33	20.32
	50% RB mid	1754.3	22.55	21.74	20.66	17.62	25.15	24.34	23.26	20.22
		1732.5	22.58	21.76	20.72	17.63	25.18	24.36	23.32	20.23
		1710.7	22.49	21.69	20.62	17.6	25.09	24.29	23.22	20.20
	100% RB	1754.3	21.54	20.65	19.74	17.59	24.14	23.25	22.34	20.19
		1732.5	21.47	20.57	19.52	17.48	24.07	23.17	22.12	20.08
		1710.7	21.41	20.46	19.44	17.5	24.01	23.06	22.04	20.10
3MHz	1 RB high	1753.5	22.7	21.89	20.97	17.78	25.30	24.49	23.57	20.38
		1732.5	22.71	21.94	21.05	17.75	25.31	24.54	23.65	20.35
		1711.5	22.55	21.65	20.8	17.81	25.15	24.25	23.40	20.41
	1 RB low	1753.5	22.8	21.91	20.94	17.85	25.40	24.51	23.54	20.45
		1732.5	22.82	22.01	21.03	17.81	25.42	24.61	23.63	20.41
		1711.5	22.6	21.83	20.89	17.66	25.20	24.43	23.49	20.26
	50% RB mid	1753.5	21.56	20.66	19.61	17.64	24.16	23.26	22.21	20.24
		1732.5	21.64	20.66	19.63	17.61	24.24	23.26	22.23	20.21
		1711.5	21.59	20.63	19.59	17.66	24.19	23.23	22.19	20.26
	100% RB	1753.5	21.59	20.59	19.59	17.58	24.19	23.19	22.19	20.18
		1732.5	21.55	20.54	19.58	17.57	24.15	23.14	22.18	20.17
		1711.5	21.58	20.62	19.61	17.62	24.18	23.22	22.21	20.22
5MHz	1 RB high	1752.5	22.82	22.03	20.84	17.94	25.42	24.63	23.44	20.54
		1732.5	22.81	22.06	20.86	17.96	25.41	24.66	23.46	20.56
		1712.5	22.68	21.86	20.79	17.79	25.28	24.46	23.39	20.39
	1 RB low	1752.5	22.83	22.03	20.94	17.98	25.43	24.63	23.54	20.58
		1732.5	22.8	22.04	20.89	17.82	25.40	24.64	23.49	20.42
		1712.5	22.67	21.85	20.82	17.75	25.27	24.45	23.42	20.35
	50% RB mid	1752.5	21.62	20.73	19.62	17.67	24.22	23.33	22.22	20.27
		1732.5	21.65	20.73	19.57	17.64	24.25	23.33	22.17	20.24
		1712.5	21.67	20.7	19.71	17.69	24.27	23.30	22.31	20.29
	100% RB	1752.5	21.65	20.64	19.67	17.63	24.25	23.24	22.27	20.23
		1732.5	21.59	20.62	19.62	17.61	24.19	23.22	22.22	20.21
		1712.5	21.63	20.62	19.63	17.65	24.23	23.22	22.23	20.25
10MHz	1 RB high	1750	22.85	21.96	21.08	17.96	25.45	24.56	23.68	20.56

		1732.5	22.84	22.01	21.09	18.05	25.44	24.61	23.69	20.65
		1715	22.78	21.88	21.02	17.95	25.38	24.48	23.62	20.55
	1 RB low	1750	22.8	22	21.08	18.01	25.40	24.60	23.68	20.61
		1732.5	22.82	21.87	21.03	17.89	25.42	24.47	23.63	20.49
		1715	22.73	21.78	20.97	17.74	25.33	24.38	23.57	20.34
	50% RB mid	1750	21.64	20.68	19.68	17.68	24.24	23.28	22.28	20.28
		1732.5	21.66	20.68	19.72	17.71	24.26	23.28	22.32	20.31
		1715	21.74	20.78	19.77	17.75	24.34	23.38	22.37	20.35
	100% RB	1750	21.7	20.71	19.69	17.71	24.30	23.31	22.29	20.31
		1732.5	21.6	20.6	19.61	17.62	24.20	23.20	22.21	20.22
		1715	21.68	20.71	19.71	17.73	24.28	23.31	22.31	20.33
	15MHz	1 RB high	1747.5	22.74	21.95	20.99	17.88	25.34	24.55	23.59
1732.5			22.69	21.89	20.95	17.79	25.29	24.49	23.55	20.39
1717.5			22.69	21.94	20.88	17.78	25.29	24.54	23.48	20.38
1 RB low		1747.5	22.63	21.91	20.78	17.77	25.23	24.51	23.38	20.37
		1732.5	22.65	21.76	20.87	17.78	25.25	24.36	23.47	20.38
		1717.5	22.55	21.72	20.66	17.52	25.15	24.32	23.26	20.12
50% RB mid		1747.5	21.54	20.53	19.55	17.56	24.14	23.13	22.15	20.16
		1732.5	21.6	20.54	19.62	17.53	24.20	23.14	22.22	20.13
		1717.5	21.69	20.65	19.67	17.65	24.29	23.25	22.27	20.25
100% RB		1747.5	21.56	20.57	19.57	17.58	24.16	23.17	22.17	20.18
		1732.5	21.51	20.48	19.51	17.54	24.11	23.08	22.11	20.14
		1717.5	21.61	20.64	19.64	17.63	24.21	23.24	22.24	20.23
20MHz	1 RB high	1745	22.72	21.96	21.01	18.05	25.32	24.56	23.61	20.65
		1732.5	22.76	22.03	20.84	18.01	25.36	24.63	23.44	20.61
		1720	22.79	22.05	21.09	18.09	25.39	24.65	23.69	20.69
	1 RB low	1745	22.64	21.97	20.97	18.02	25.24	24.57	23.57	20.62
		1732.5	22.57	21.84	20.88	17.81	25.17	24.44	23.48	20.41
		1720	22.49	21.82	20.76	17.8	25.09	24.42	23.36	20.40
	50% RB mid	1745	21.57	20.61	19.57	17.6	24.17	23.21	22.17	20.20
		1732.5	21.63	20.56	19.62	17.58	24.23	23.16	22.22	20.18
		1720	21.72	20.72	19.72	17.71	24.32	23.32	22.32	20.31
	100% RB	1745	21.59	20.6	19.59	17.59	24.19	23.20	22.19	20.19
		1732.5	21.5	20.51	19.54	17.54	24.10	23.11	22.14	20.14
		1720	21.7	20.69	19.69	17.7	24.30	23.29	22.29	20.30

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

Band width	RB size/ offset	Frequen cy (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -0.1dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	22.99	22.1	21.18	18.57	20.74	19.85	18.93	16.32
		836.5	23.53	22.86	21.93	18.95	21.28	20.61	19.68	16.70
		824.7	23.44	22.84	21.83	18.87	21.19	20.59	19.58	16.62
	1 RB low	848.3	23.4	22.58	21.61	18.68	21.15	20.33	19.36	16.43
		836.5	23.65	22.93	21.93	18.95	21.40	20.68	19.68	16.70
		824.7	23.46	22.69	21.96	18.98	21.21	20.44	19.71	16.73
	50% RB mid	848.3	23.19	22.33	21.5	18.59	20.94	20.08	19.25	16.34
		836.5	23.62	22.84	21.95	18.97	21.37	20.59	19.70	16.72
		824.7	23.51	22.61	21.78	18.83	21.26	20.36	19.53	16.58
	100% RB	848.3	22.33	21.43	20.5	18.3	20.08	19.18	18.25	16.05
		836.5	22.64	21.71	20.86	18.6	20.39	19.46	18.61	16.35
		824.7	22.48	21.61	20.73	18.49	20.23	19.36	18.48	16.24
3MHz	1 RB high	847.5	23.14	22.3	21.43	18.53	20.89	20.05	19.18	16.28
		836.5	23.58	22.74	21.99	19	21.33	20.49	19.74	16.75
		825.5	23.36	22.61	21.9	18.93	21.11	20.36	19.65	16.68
	1 RB low	847.5	23.68	22.95	21.83	18.87	21.43	20.70	19.58	16.62
		836.5	23.44	22.85	21.78	18.83	21.19	20.60	19.53	16.58
		825.5	23.41	22.94	21.7	18.76	21.16	20.69	19.45	16.51
	50% RB mid	847.5	22.77	21.78	20.92	18.65	20.52	19.53	18.67	16.40
		836.5	22.64	21.81	20.92	18.65	20.39	19.56	18.67	16.40
		825.5	22.48	21.63	20.72	18.48	20.23	19.38	18.47	16.23
	100% RB	847.5	22.74	21.75	20.91	18.64	20.49	19.50	18.66	16.39
		836.5	22.55	21.59	20.75	18.51	20.30	19.34	18.50	16.26
		825.5	22.49	21.46	20.72	18.48	20.24	19.21	18.47	16.23
5MHz	1 RB high	846.5	23.31	22.38	21.53	18.61	21.06	20.13	19.28	16.36
		836.5	23.53	22.91	21.91	18.93	21.28	20.66	19.66	16.68
		826.5	23.45	22.76	21.76	18.81	21.20	20.51	19.51	16.56
	1 RB low	846.5	23.68	22.86	21.85	18.88	21.43	20.61	19.60	16.63
		836.5	23.41	22.84	21.92	18.94	21.16	20.59	19.67	16.69
		826.5	23.41	22.75	21.83	18.87	21.16	20.50	19.58	16.62
	50% RB mid	846.5	22.77	21.79	21	18.72	20.52	19.54	18.75	16.47
		836.5	22.61	21.62	20.79	18.54	20.36	19.37	18.54	16.29
		826.5	22.54	21.57	20.79	18.54	20.29	19.32	18.54	16.29
	100% RB	846.5	22.66	21.69	20.94	18.67	20.41	19.44	18.69	16.42
		836.5	22.47	21.56	20.75	18.51	20.22	19.31	18.50	16.26
		826.5	22.45	21.52	20.77	18.52	20.20	19.27	18.52	16.27
10MHz	1 RB high	844	23.62	22.87	21.87	18.9	21.37	20.62	19.62	16.65



I22Z60940-WMD01

		836.5	23.54	22.83	21.82	18.86	21.29	20.58	19.57	16.61
		829	23.45	22.85	21.7	18.76	21.20	20.60	19.45	16.51
	1 RB low	844	23.56	22.96	22	18.94	21.31	20.71	19.75	16.69
		836.5	23.52	22.91	21.71	18.77	21.27	20.66	19.46	16.52
		829	23.38	22.67	21.94	18.96	21.13	20.42	19.69	16.71
	50% RB mid	844	22.73	21.7	20.93	18.66	20.48	19.45	18.68	16.41
		836.5	22.49	21.57	20.83	18.57	20.24	19.32	18.58	16.32
		829	22.53	21.55	20.79	18.54	20.28	19.30	18.54	16.29
	100% RB	844	22.68	21.66	20.99	18.71	20.43	19.41	18.74	16.46
		836.5	22.43	21.52	20.69	18.46	20.18	19.27	18.44	16.21
		829	22.52	21.43	20.7	18.46	20.27	19.18	18.45	16.21

LTE Band 7-EIRP
Limits: ≤33dBm(2W)

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 2.1dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	23.02	21.79	20.82	17.66	25.12	23.89	22.92	19.76
		2535	23.27	22.41	21.25	18.02	25.37	24.51	23.35	20.12
		2502.5	23.1	22.5	21.24	18.01	25.20	24.60	23.34	20.11
	1 RB low	2567.5	22.46	21.33	20.28	17.22	24.56	23.43	22.38	19.32
		2535	23.08	22.39	21.24	18.01	25.18	24.49	23.34	20.11
		2502.5	22.66	21.88	20.73	17.59	24.76	23.98	22.83	19.69
	50% RB mid	2567.5	21.6	20.38	19.33	17.24	23.70	22.48	21.43	19.34
		2535	22.49	21.39	20.37	17.29	24.59	23.49	22.47	19.39
		2502.5	22.2	21.13	20.21	17.16	24.30	23.23	22.31	19.26
	100% RB	2567.5	21.63	20.45	19.48	17.14	23.73	22.55	21.58	19.24
		2535	22.51	21.43	20.43	17.34	24.61	23.53	22.53	19.44
		2502.5	22.16	21.11	20.27	17.21	24.26	23.21	22.37	19.31
10MHz	1 RB high	2565	22.53	22.41	21.39	17.67	24.63	24.51	23.49	19.77
		2535	22.69	22.73	21.84	18.03	24.79	24.83	23.94	20.13
		2505	23.11	22.14	21.34	17.63	25.21	24.24	23.44	19.73
	1 RB low	2565	22.34	22.56	21.65	17.88	24.44	24.66	23.75	19.98
		2535	22.77	22.48	21.81	18.01	24.87	24.58	23.91	20.11
		2505	22.21	22.17	21.41	17.69	24.31	24.27	23.51	19.79
	50% RB mid	2565	21.02	21.48	20.52	17.07	23.12	23.58	22.62	19.17
		2535	21.85	21.49	20.73	17.14	23.95	23.59	22.83	19.24
		2505	21.93	20.98	20.2	17.02	24.03	23.08	22.30	19.12
	100% RB	2565	21.21	21.36	20.55	17	23.31	23.46	22.65	19.10
		2535	21.99	21.38	20.63	17.06	24.09	23.48	22.73	19.16
		2505	21.91	20.98	20.16	17.09	24.01	23.08	22.26	19.19
15MHz	1 RB high	2562.5	22.83	21.73	20.67	17.29	24.93	23.83	22.77	19.39
		2535	23.32	22.65	21.41	17.9	25.42	24.75	23.51	20.00
		2507.5	22.84	22.15	21.25	17.77	24.94	24.25	23.35	19.87
	1 RB low	2562.5	23.54	22.91	21.86	18.26	25.64	25.01	23.96	20.36
		2535	23.24	22.88	21.55	18.01	25.34	24.98	23.65	20.11
		2507.5	22.67	21.74	20.62	17.25	24.77	23.84	22.72	19.35
	50% RB mid	2562.5	22.13	20.83	19.71	17.02	24.23	22.93	21.81	19.12
		2535	22.48	21.37	20.34	17.03	24.58	23.47	22.44	19.13
		2507.5	21.94	21.03	20.24	17.03	24.04	23.13	22.34	19.13
	100% RB	2562.5	22.27	21.03	20	17.11	24.37	23.13	22.10	19.21
		2535	22.55	21.59	20.55	17.2	24.65	23.69	22.65	19.30
		2507.5	21.99	21.09	20.22	17.06	24.09	23.19	22.32	19.16
20MHz	1 RB high	2560	22.64	21.42	20.32	17.08	24.74	23.52	22.42	19.18



		2535	23.5	22.71	21.55	17.87	25.60	24.81	23.65	19.97
		2510	23.11	22.4	21.11	17.52	25.21	24.50	23.21	19.62
	1 RB low	2560	23.53	22.51	21.99	18.23	25.63	24.61	24.09	20.33
		2535	23.15	22.48	21.72	18.01	25.25	24.58	23.82	20.11
		2510	22.91	22.09	21.08	17.49	25.01	24.19	23.18	19.59
	50% RB mid	2560	22.16	21.02	20.02	17.89	24.26	23.12	22.12	19.99
		2535	22.19	21.19	20.21	18.06	24.29	23.29	22.31	20.16
		2510	22.04	21.11	20	17.88	24.14	23.21	22.10	19.98
	100% RB	2560	22.29	21.2	20.22	18.07	24.39	23.30	22.32	20.17
		2535	22.43	21.47	20.49	18.3	24.53	23.57	22.59	20.40
		2510	22.11	21.09	20.06	17.93	24.21	23.19	22.16	20.03

LTE Band 12-ERP
Limits: ≤34.77dBm(3W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.51dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	23.06	22.62	21.47	17.48	21.42	20.98	19.83	15.84
		707.5	23.13	22.57	21.31	17.35	21.49	20.93	19.67	15.71
		699.7	23.09	22.38	21.29	17.33	21.45	20.74	19.65	15.69
	1 RB low	715.3	23.1	22.65	21.42	17.43	21.46	21.01	19.78	15.79
		707.5	23.18	22.54	21.35	17.38	21.54	20.90	19.71	15.74
		699.7	23.15	22.59	21.22	17.27	21.51	20.95	19.58	15.63
	50% RB mid	715.3	23.23	22.44	21.36	18.5	21.59	20.80	19.72	16.86
		707.5	23.19	22.34	21.38	18.51	21.55	20.70	19.74	16.87
		699.7	23.22	22.25	21.35	18.49	21.58	20.61	19.71	16.85
	100% RB	715.3	22.26	21.26	20.21	17.5	20.62	19.62	18.57	15.86
		707.5	22.23	21.33	20.2	17.49	20.59	19.69	18.56	15.85
		699.7	22.15	21.29	20.18	17.47	20.51	19.65	18.54	15.83
3MHz	1 RB high	714.5	23.17	22.46	21.63	17.61	21.53	20.82	19.99	15.97
		707.5	23.23	22.48	21.65	17.62	21.59	20.84	20.01	15.98
		700.5	23.07	22.48	21.56	17.55	21.43	20.84	19.92	15.91
	1 RB low	714.5	23.23	22.68	21.44	17.45	21.59	21.04	19.80	15.81
		707.5	23.2	22.46	21.54	17.53	21.56	20.82	19.90	15.89
		700.5	23.15	22.54	21.52	17.52	21.51	20.90	19.88	15.88
	50% RB mid	714.5	22.31	21.47	20.48	17.73	20.67	19.83	18.84	16.09
		707.5	22.33	21.34	20.53	17.78	20.69	19.70	18.89	16.14
		700.5	22.22	21.39	20.54	17.79	20.58	19.75	18.90	16.15
	100% RB	714.5	22.26	21.31	20.47	17.73	20.62	19.67	18.83	16.09
		707.5	22.28	21.23	20.34	17.61	20.64	19.59	18.70	15.97
		700.5	22.27	21.25	20.45	17.71	20.63	19.61	18.81	16.07
5MHz	1 RB high	713.5	23.21	22.67	21.64	17.61	21.57	21.03	20.00	15.97
		707.5	23.19	22.59	21.57	17.56	21.55	20.95	19.93	15.92
		701.5	23.23	22.56	21.57	17.56	21.59	20.92	19.93	15.92
	1 RB low	713.5	23.22	22.7	21.67	17.64	21.58	21.06	20.03	16.00
		707.5	23.28	22.66	21.5	17.5	21.64	21.02	19.86	15.86
		701.5	23.13	22.61	21.55	17.54	21.49	20.97	19.91	15.90
	50% RB mid	713.5	22.31	21.31	20.54	17.79	20.67	19.67	18.90	16.15
		707.5	22.22	21.29	20.39	17.66	20.58	19.65	18.75	16.02
		701.5	22.29	21.29	20.5	17.75	20.65	19.65	18.86	16.11
	100% RB	713.5	22.3	21.31	20.42	17.68	20.66	19.67	18.78	16.04
		707.5	22.19	21.22	20.41	17.67	20.55	19.58	18.77	16.03
		701.5	22.3	21.29	20.41	17.67	20.66	19.65	18.77	16.03
1 RB	711	23.22	22.73	21.77	17.82	21.58	21.09	20.13	16.18	



I22Z60940-WMD01

10MHz	high	707.5	23.23	22.83	21.45	17.56	21.59	21.19	19.81	15.92
		704	23.23	22.62	21.35	17.48	21.59	20.98	19.71	15.84
	1 RB low	711	23.24	22.78	21.5	17.6	21.60	21.14	19.86	15.96
		707.5	23.15	22.63	21.38	17.5	21.51	20.99	19.74	15.86
		704	23.24	22.65	21.46	17.57	21.60	21.01	19.82	15.93
	50% RB mid	711	22.27	21.36	20.28	17.71	20.63	19.72	18.64	16.07
		707.5	22.15	21.33	20.22	17.66	20.51	19.69	18.58	16.02
		704	22.32	21.33	20.34	17.76	20.68	19.69	18.70	16.12
	100% RB	711	22.15	21.17	20.22	17.66	20.51	19.53	18.58	16.02
		707.5	22.23	21.19	20.27	17.7	20.59	19.55	18.63	16.06
		704	22.28	21.25	20.31	17.73	20.64	19.61	18.67	16.09

LTE Band 13-ERP
Limits: $\leq 34.77\text{dBm}(3\text{W})$

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.6dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	23.04	22.73	21.56	18.78	21.49	21.18	20.01	17.23
		782	23.15	22.53	21.57	18.78	21.60	20.98	20.02	17.23
		779.5	23.23	22.56	21.69	18.89	21.68	21.01	20.14	17.34
	1 RB low	784.5	23.17	22.65	21.69	18.89	21.62	21.10	20.14	17.34
		782	23.19	22.6	21.63	18.84	21.64	21.05	20.08	17.29
		779.5	23.27	22.72	21.75	18.95	21.72	21.17	20.20	17.40
	50% RB mid	784.5	22.25	21.31	20.54	18.36	20.70	19.76	18.99	16.81
		782	22.16	21.17	20.52	18.35	20.61	19.62	18.97	16.80
		779.5	22.3	21.36	20.46	18.29	20.75	19.81	18.91	16.74
	100% RB	784.5	22.23	21.2	20.53	18.35	20.68	19.65	18.98	16.80
		782	22.18	21.21	20.42	18.26	20.63	19.66	18.87	16.71
		779.5	22.2	21.23	20.47	18.3	20.65	19.68	18.92	16.75
10MHz	1 RB high	782	23.14	22.64	21.58	18.79	21.59	21.09	20.03	17.24
	1 RB low	782	23.12	22.69	21.89	18.97	21.57	21.14	20.34	17.42
	50% RB mid	782	22.15	21.24	20.4	18.24	20.60	19.69	18.85	16.69
	100% RB	782	22.17	21.19	20.5	18.33	20.62	19.64	18.95	16.78

LTE Band 48-EIRP
Limits: $\leq 23\text{dBm}/10\text{MHz}$

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm/10MHz)				EIRP(dBm/10MHz) GT = -2.1dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3697.5	23.17	22.43	21.35	18.36	21.07	20.33	19.25	16.26
		3625	24.22	23.11	22.48	19.10	22.12	21.01	20.38	17.00
		3552.5	24.22	23.54	22.61	19.55	22.12	21.44	20.51	17.45
	1 RB low	3697.5	23.11	22.29	21.17	18.25	21.01	20.19	19.07	16.15
		3625	24.27	23.49	22.33	19.24	22.17	21.39	20.23	17.14
		3552.5	24.32	23.47	22.62	19.42	22.22	21.37	20.52	17.32
	100% RB	3697.5	21.97	20.94	19.95	18.03	19.87	18.84	17.85	15.93
		3625	23.03	22.11	21.02	19.02	20.93	20.01	18.92	16.92
		3552.5	23.14	22.15	21.14	19.04	21.04	20.05	19.04	16.94
10MHz	1 RB high	3695	23.09	22.50	21.35	18.22	20.99	20.40	19.25	16.12
		3625	24.28	23.75	22.38	19.43	22.18	21.65	20.28	17.33
		3555	24.28	23.61	22.59	19.41	22.18	21.51	20.49	17.31
	1 RB low	3695	23.10	22.27	21.37	18.18	21.00	20.17	19.27	16.08
		3625	24.32	23.40	22.36	19.35	22.22	21.30	20.26	17.25
		3555	24.29	23.50	22.60	19.30	22.19	21.40	20.50	17.20
	100% RB	3695	21.31	20.30	19.32	17.33	19.21	18.20	17.22	15.23
		3625	22.33	21.46	20.50	18.19	20.23	19.36	18.40	16.09
		3555	22.51	21.62	20.51	18.44	20.41	19.52	18.41	16.34
15MHz	1 RB high	3692.5	23.28	22.16	21.08	18.06	21.18	20.06	18.98	15.96
		3625	23.95	23.28	22.17	19.25	21.85	21.18	20.07	17.15
		3557.5	24.64	23.31	22.56	19.41	22.54	21.21	20.46	17.31
	1 RB low	3692.5	23.08	21.87	20.91	17.92	20.98	19.77	18.81	15.82
		3625	24.27	23.23	22.80	19.24	22.17	21.13	20.70	17.14
		3557.5	24.28	23.40	22.51	19.58	22.18	21.30	20.41	17.48
	100% RB	3692.5	20.37	19.32	18.32	16.36	18.27	17.22	16.22	14.26
		3625	21.59	20.66	19.67	17.68	19.49	18.56	17.57	15.58
		3557.5	21.58	20.67	19.61	17.65	19.48	18.57	17.51	15.55
20MHz	1 RB high	3690	23.71	22.54	21.52	18.55	21.61	20.44	19.42	16.45
		3625	24.06	23.11	22.13	19.12	21.96	21.01	20.03	17.02
		3560	24.37	23.68	22.65	19.22	22.27	21.58	20.55	17.12
	1 RB low	3690	23.05	22.05	20.98	18.14	20.95	19.95	18.88	16.04
		3625	24.24	23.38	22.48	19.18	22.14	21.28	20.38	17.08
		3560	24.32	23.56	22.63	19.51	22.22	21.46	20.53	17.41
	100% RB	3690	19.78	18.79	17.84	15.85	17.68	16.69	15.74	13.75
		3625	20.88	19.89	18.87	16.87	18.78	17.79	16.77	14.77
		3560	20.79	19.81	18.81	16.82	18.69	17.71	16.71	14.72

LTE Band 66-EIRP
Limits: ≤30dBm(1W)

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 2.6dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23	22.58	21.38	18.94	25.60	25.18	23.98	21.54
		1745	23.02	22.34	21.29	18.86	25.62	24.94	23.89	21.46
		1710.7	22.78	22.34	21.16	18.74	25.38	24.94	23.76	21.34
	1 RB low	1779.3	23.02	22.46	21.35	18.91	25.62	25.06	23.95	21.51
		1745	23.01	22.38	21.2	18.78	25.61	24.98	23.80	21.38
		1710.7	22.81	22.16	21.12	18.7	25.41	24.76	23.72	21.30
	50% RB mid	1779.3	23.1	22.35	21.29	18.86	25.70	24.95	23.89	21.46
		1745	23.05	22.22	21.22	18.79	25.65	24.82	23.82	21.39
		1710.7	22.8	22.04	21.11	18.69	25.40	24.64	23.71	21.29
	100% RB	1779.3	22.06	21.16	20.17	18.43	24.66	23.76	22.77	21.03
		1745	22.03	21.17	20.21	18.47	24.63	23.77	22.81	21.07
		1710.7	21.86	20.98	20	18.28	24.46	23.58	22.60	20.88
3MHz	1 RB high	1778.5	23.02	22.4	21.34	18.9	25.62	25.00	23.94	21.50
		1745	22.94	22.55	21.15	18.73	25.54	25.15	23.75	21.33
		1711.5	22.85	22.17	21.08	18.67	25.45	24.77	23.68	21.27
	1 RB low	1778.5	22.98	22.5	21.41	18.97	25.58	25.10	24.01	21.57
		1745	23	22.31	21.07	18.66	25.60	24.91	23.67	21.26
		1711.5	22.8	22.08	21.13	18.71	25.40	24.68	23.73	21.31
	50% RB mid	1778.5	21.97	21.17	20.17	18.43	24.57	23.77	22.77	21.03
		1745	22.08	21.2	20.31	18.56	24.68	23.80	22.91	21.16
		1711.5	21.88	20.92	20.04	18.32	24.48	23.52	22.64	20.92
	100% RB	1778.5	21.98	21.04	20.18	18.44	24.58	23.64	22.78	21.04
		1745	22	21.11	20.14	18.41	24.60	23.71	22.74	21.01
		1711.5	21.93	20.89	20.03	18.31	24.53	23.49	22.63	20.91
5MHz	1 RB high	1777.5	22.89	22.33	21.6	18.94	25.49	24.93	24.20	21.54
		1745	23.03	22.5	21.41	18.97	25.63	25.10	24.01	21.57
		1712.5	22.74	22.18	21.03	18.62	25.34	24.78	23.63	21.22
	1 RB low	1777.5	23.02	22.48	21.28	18.85	25.62	25.08	23.88	21.45
		1745	23.03	22.47	21.22	18.79	25.63	25.07	23.82	21.39
		1712.5	22.72	22.11	20.97	18.57	25.32	24.71	23.57	21.17
	50% RB mid	1777.5	22.12	21.25	20.2	18.46	24.72	23.85	22.80	21.06
		1745	22.04	21.15	20.19	18.45	24.64	23.75	22.79	21.05
		1712.5	21.91	20.96	20.03	18.31	24.51	23.56	22.63	20.91
	100% RB	1777.5	22.08	21.15	20.18	18.44	24.68	23.75	22.78	21.04
		1745	22	21.05	20.1	18.37	24.60	23.65	22.70	20.97
		1712.5	21.87	20.91	20.02	18.3	24.47	23.51	22.62	20.90
10MHz	1 RB high	1775	22.91	22.51	21.42	18.98	25.51	25.11	24.02	21.58

		1745	23.03	22.61	21.32	18.89	25.63	25.21	23.92	21.49
		1715	22.82	22.41	21.12	18.7	25.42	25.01	23.72	21.30
	1 RB low	1775	23.06	22.4	21.29	18.86	25.66	25.00	23.89	21.46
		1745	22.96	22.38	21.14	18.72	25.56	24.98	23.74	21.32
		1715	22.81	22.18	21.04	18.63	25.41	24.78	23.64	21.23
	50% RB mid	1775	22.06	21.11	20.17	18.43	24.66	23.71	22.77	21.03
		1745	22.08	21.02	20.1	18.37	24.68	23.62	22.70	20.97
		1715	21.98	20.96	20.04	18.32	24.58	23.56	22.64	20.92
	100% RB	1775	22.05	20.97	20.18	18.44	24.65	23.57	22.78	21.04
		1745	21.96	21.05	20.16	18.42	24.56	23.65	22.76	21.02
		1715	21.92	20.91	19.99	18.27	24.52	23.51	22.59	20.87
	15MHz	1 RB high	1772.5	22.76	22.17	20.9	18.5	25.36	24.77	23.50
1745			22.92	22.14	21.16	18.74	25.52	24.74	23.76	21.34
1717.5			22.8	22.09	21.1	18.68	25.40	24.69	23.70	21.28
1 RB low		1772.5	22.88	22.26	21.04	18.63	25.48	24.86	23.64	21.23
		1745	22.81	22.44	21.07	18.66	25.41	25.04	23.67	21.26
		1717.5	22.68	22.03	20.95	18.55	25.28	24.63	23.55	21.15
50% RB mid		1772.5	21.97	20.96	20.11	18.38	24.57	23.56	22.71	20.98
		1745	21.9	20.91	20.1	18.37	24.50	23.51	22.70	20.97
		1717.5	21.81	20.84	19.94	18.22	24.41	23.44	22.54	20.82
100% RB		1772.5	21.96	20.99	20.12	18.39	24.56	23.59	22.72	20.99
		1745	21.87	20.93	20.04	18.32	24.47	23.53	22.64	20.92
		1717.5	21.81	20.84	19.97	18.25	24.41	23.44	22.57	20.85
20MHz	1 RB high	1770	22.77	22.28	21.01	18.6	25.37	24.88	23.61	21.20
		1745	23.03	22.11	21.3	18.87	25.63	24.71	23.90	21.47
		1720	22.8	22.18	20.98	18.57	25.40	24.78	23.58	21.17
	1 RB low	1770	22.87	22	21.65	18.99	25.47	24.60	24.25	21.59
		1745	22.9	22.1	21.22	18.79	25.50	24.70	23.82	21.39
		1720	22.66	21.83	21.17	18.75	25.26	24.43	23.77	21.35
	50% RB mid	1770	21.95	21.03	20.11	18.38	24.55	23.63	22.71	20.98
		1745	21.82	20.86	20.04	18.32	24.42	23.46	22.64	20.92
		1720	21.87	20.92	19.93	18.21	24.47	23.52	22.53	20.81
	100% RB	1770	21.95	21.03	20.13	18.4	24.55	23.63	22.73	21.00
		1745	21.93	20.91	19.97	18.25	24.53	23.51	22.57	20.85
		1720	21.84	20.89	20	18.28	24.44	23.49	22.60	20.88

LTE CA Band 5B - ERP
Limits: ≤38.45dBm(7W)

Bandwidth	Frequency	Frequency	Modulation	PCC RB		SCC RB		Conducted Power (dBm)	Radiated Power (dBm) GT = -0.1dBi
	(MHz)	(MHz)		Size	Offset	Size	Offset		
3MHz/ 5MHz	834.1	838	QPSK	1	14	1	0	24.56	22.31
				15	0	25	0	24.36	22.11
			16QAM	1	14	1	0	23.4	21.15
				15	0	25	0	23.38	21.13
			64QAM	1	14	1	0	22.55	20.3
				15	0	25	0	22.34	20.09
256QAM	1	14	1	0	21.34	19.09			
	15	0	25	0	21.36	19.11			
5MHz/ 3MHz	835	838.9	QPSK	1	24	1	0	23.9	21.65
				25	0	15	0	23.94	21.69
			16QAM	1	24	1	0	22.87	20.62
				25	0	15	0	23.01	20.76
			64QAM	1	24	1	0	21.82	19.57
				25	0	15	0	21.98	19.73
256QAM	1	24	1	0	20.9	18.65			
	25	0	15	0	21.01	18.76			
5MHz/ 10MHz	831.8	839	QPSK	1	24	1	0	24.64	22.39
				25	0	50	0	22.62	20.37
			16QAM	1	24	1	0	23.64	21.39
				25	0	50	0	21.52	19.27
			64QAM	1	24	1	0	22.36	20.11
				25	0	50	0	21.53	19.28
256QAM	1	24	1	0	19.46	17.21			
	25	0	50	0	19.5	17.25			
10MHz/ 5MHz	834	841.2	QPSK	1	49	1	0	24.54	22.29
				50	0	25	0	22.64	20.39
			16QAM	1	49	1	0	23.58	21.33
				50	0	25	0	21.63	19.38
			64QAM	1	49	1	0	22.12	19.87
				50	0	25	0	21.67	19.42
256QAM	1	49	1	0	19.51	17.26			
	50	0	25	0	19.72	17.47			
10MHz/ 10MHz	831.6	841.5	QPSK	1	49	1	0	24.47	22.22
				50	0	50	0	22.52	20.27
			16QAM	1	49	1	0	23.55	21.3
				50	0	50	0	21.54	19.29
64QAM	1	49	1	0	22.23	19.98			



I22Z60940-WMD01

				50	0	50	0	21.5	19.25
			256QAM	1	49	1	0	19.56	17.31
				50	0	50	0	19.59	17.34

LTE CA Band 48C

Bandwidth	Frequency(MHz)	Frequency(MHz)	Modulation	PCC RB		SCC RB		Conduct ed Power(d Bm)	Radiated Power (dBm) GT = -2.1dBi
				Size	Offset	Size	Offset		
5MHz/ 20MHz	3615.8	3627.5	QPSK	1	24	1	0	24.64	22.54
				25	0	100	0	21.63	19.53
			16QAM	1	24	1	0	24.37	22.27
				25	0	100	0	20.74	18.64
			64QAM	1	24	1	0	23.33	21.23
				25	0	100	0	20.65	18.55
256QAM	1	24	1	0	19.94	17.84			
	25	0	100	0	18.75	16.65			
10MHz/ 20MHz	3615.6	3630	QPSK	1	74	1	0	24.43	22.33
				75	0	100	0	19.43	17.33
			16QAM	1	74	1	0	23.65	21.55
				75	0	100	0	18.58	16.48
			64QAM	1	74	1	0	22.87	20.77
				75	0	100	0	18.55	16.45
256QAM	1	74	1	0	19.88	17.78			
	75	0	100	0	16.57	14.47			
15MHz/ 20MHz	3615.3	3632.4	QPSK	1	99	1	0	24.69	22.59
				100	0	75	0	21.19	19.09
			16QAM	1	99	1	0	24.35	22.25
				100	0	75	0	20.19	18.09
			64QAM	1	99	1	0	23.09	20.99
				100	0	75	0	19.92	17.82
256QAM	1	99	1	0	20.08	17.98			
	100	0	75	0	18.19	16.09			
20MHz/ 5MHz	3622.5	3634.2	QPSK	1	99	1	0	24.42	22.32
				100	0	100	0	19.48	17.38
			16QAM	1	99	1	0	24.26	22.16
				100	0	100	0	18.54	16.44
			64QAM	1	99	1	0	22.89	20.79
				100	0	100	0	18.49	16.39
256QAM	1	99	1	0	19.71	17.61			
	100	0	100	0	16.53	14.43			
20MHz/ 10MHz	3620.1	3634.5	QPSK	1	24	1	0	24.78	22.68
				25	0	100	0	20.28	18.18
			16QAM	1	24	1	0	24.06	21.96
				25	0	100	0	19.23	17.13
64QAM	1	24	1	0	22.95	20.85			

				25	0	100	0	19.34	17.24
			256QAM	1	24	1	0	19.98	17.88
				25	0	100	0	17.34	15.24
20MHz/ 15MHz	3617.6	3634.7	QPSK	1	49	1	0	24.43	22.33
				50	0	100	0	19.46	17.36
			16QAM	1	49	1	0	24.09	21.99
				50	0	100	0	18.20	16.10
			64QAM	1	49	1	0	22.94	20.84
				50	0	100	0	18.39	16.29
			256QAM	1	49	1	0	19.98	17.88
				50	0	100	0	16.17	14.07
20MHz/ 20MHz	3615.1	3634.9	QPSK	1	74	1	0	24.63	22.53
				75	0	100	0	19.33	17.23
			16QAM	1	74	1	0	24.16	22.06
				75	0	100	0	18.36	16.26
			64QAM	1	74	1	0	23.17	21.07
				75	0	100	0	18.45	16.35
			256QAM	1	74	1	0	19.88	17.78
				75	0	100	0	16.09	13.99

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

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power (dBm)	Radiated Power (dBm) GT = 2.6dBi
				Size	Offset	Size	Offset		
5MHz/ 5MHz	1752.6	1757.4	QPSK	1	24	1	0	23.98	26.58
				25	0	25	0	21.98	24.58
			16QAM	1	24	1	0	23.00	25.6
				25	0	25	0	21.05	23.65
			64QAM	1	24	1	0	22.00	24.6
				25	0	25	0	21.04	23.64
256QAM	1	24	1	0	19.07	21.67			
	25	0	25	0	19.04	21.64			
5MHz/ 10MHz	1750.3	1757.5	QPSK	1	24	1	0	23.87	26.47
				25	0	50	0	21.89	24.49
			16QAM	1	24	1	0	22.95	25.55
				25	0	50	0	20.87	23.47
			64QAM	1	24	1	0	21.93	24.53
				25	0	50	0	20.87	23.47
256QAM	1	24	1	0	18.92	21.52			
	25	0	50	0	18.88	21.48			
5MHz/ 15MHz	1748.1	1757.4	QPSK	1	24	1	0	23.82	26.42
				25	0	75	0	21.83	24.43
			16QAM	1	24	1	0	22.81	25.41
				25	0	75	0	20.80	23.4
			64QAM	1	24	1	0	21.85	24.45
				25	0	75	0	20.82	23.42
256QAM	1	24	1	0	18.83	21.43			
	25	0	75	0	18.80	21.4			
10MHz/ 5MHz	1752.5	1759.7	QPSK	1	49	1	0	23.95	26.55
				50	0	25	0	21.97	24.57
			16QAM	1	49	1	0	22.96	25.56
				50	0	25	0	21.01	23.61
			64QAM	1	49	1	0	22.00	24.6
				50	0	25	0	21.00	23.6
256QAM	1	49	1	0	18.97	21.57			
	50	0	25	0	18.99	21.59			
10MHz/ 10MHz	1750.1	1760	QPSK	1	49	1	0	23.90	26.5
				50	0	50	0	21.83	24.43
			16QAM	1	49	1	0	22.81	25.41
				50	0	50	0	20.82	23.42



			64QAM	1	49	1	0	21.87	24.47
				50	0	50	0	20.80	23.4
			256QAM	1	49	1	0	18.73	21.33
				50	0	50	0	18.76	21.36
15MHz/ 5MHz	1752.6	1761.9	QPSK	1	74	1	0	24.02	26.62
				75	0	25	0	21.88	24.48
			16QAM	1	74	1	0	22.94	25.54
				75	0	25	0	20.83	23.43
			64QAM	1	74	1	0	21.95	24.55
				75	0	25	0	20.89	23.49
			256QAM	1	74	1	0	18.80	21.4
				75	0	25	0	18.84	21.44

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

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power (dBm) GT = 2.6dBi
				Size	Offset	Size	Offset		
5MHz/ 20MHz	1745.8	1757.5	QPSK	1	24	1	0	23.66	26.26
				25	0	100	0	21.74	24.34
			16QAM	1	24	1	0	22.70	25.3
				25	0	100	0	20.66	23.26
			64QAM	1	24	1	0	21.64	24.24
				25	0	100	0	20.72	23.32
256QAM	1	24	1	0	18.64	21.24			
	25	0	100	0	18.73	21.33			
10MHz/ 15MHz	1747.9	1757.9	QPSK	1	49	1	0	23.82	26.42
				50	0	75	0	21.79	24.39
			16QAM	1	49	1	0	22.82	25.42
				50	0	75	0	20.74	23.34
			64QAM	1	49	1	0	21.86	24.46
				50	0	75	0	20.80	23.4
256QAM	1	49	1	0	18.75	21.35			
	50	0	75	0	18.80	21.4			
10MHz/ 20MHz	1745.6	1760.0	QPSK	1	49	1	0	23.84	26.44
				50	0	100	0	21.77	24.37
			16QAM	1	49	1	0	22.78	25.38
				50	0	100	0	0.00	2.6
			64QAM	1	49	1	0	21.70	24.3
				50	0	100	0	20.60	23.2
256QAM	1	49	1	0	18.60	21.2			
	50	0	100	0	18.67	21.27			
15MHz/ 10MHz	1750.1	1762.1	QPSK	1	74	1	0	23.84	26.44
				75	0	50	0	21.77	24.37
			16QAM	1	74	1	0	22.83	25.43
				75	0	50	0	20.80	23.4
			64QAM	1	74	1	0	21.98	24.58
				75	0	50	0	20.83	23.43
256QAM	1	74	1	0	18.87	21.47			
	75	0	50	0	18.77	21.37			
15MHz/ 15MHz	1747.5	1762.5	QPSK	1	74	1	0	23.81	26.41
				75	0	75	0	21.79	24.39
			16QAM	1	74	1	0	22.85	25.45

				75	0	75	0	20.71	23.31
			64QAM	1	74	1	0	21.89	24.49
				75	0	75	0	20.77	23.37
			256QAM	1	74	1	0	18.77	21.37
				75	0	75	0	18.77	21.37
15MHz/ 20MHz	1745.3	1762.4	QPSK	1	74	1	0	23.82	26.42
				75	0	100	0	21.72	24.32
			16QAM	1	74	1	0	22.83	25.43
				75	0	100	0	20.65	23.25
			64QAM	1	74	1	0	21.84	24.44
				75	0	100	0	20.66	23.26
256QAM	1	74	1	0	18.63	21.23			
	75	0	100	0	18.65	21.25			
20MHz/ 5MHz	1752.5	1764.2	QPSK	1	99	1	0	23.87	26.47
				100	0	25	0	21.88	24.48
			16QAM	1	99	1	0	22.88	25.48
				100	0	25	0	20.81	23.41
			64QAM	1	99	1	0	21.81	24.41
				100	0	25	0	20.87	23.47
256QAM	1	99	1	0	18.81	21.41			
	100	0	25	0	18.78	21.38			
20MHz/ 10MHz	1750.1	1764.5	QPSK	1	99	1	0	23.84	26.44
				100	0	50	0	21.78	24.38
			16QAM	1	99	1	0	22.81	25.41
				100	0	50	0	20.77	23.37
			64QAM	1	99	1	0	21.92	24.52
				100	0	50	0	20.82	23.42
256QAM	1	99	1	0	18.92	21.52			
	100	0	50	0	18.78	21.38			
20MHz/ 15MHz	1747.6	1764.7	QPSK	1	99	1	0	23.97	26.57
				100	0	75	0	21.78	24.38
			16QAM	1	99	1	0	23.02	25.62
				100	0	75	0	20.78	23.38
			64QAM	1	99	1	0	22.04	24.64
				100	0	75	0	20.82	23.42
256QAM	1	99	1	0	18.94	21.54			
	100	0	75	0	18.77	21.37			
20MHz/ 20MHz	1745.1	1764.9	QPSK	1	99	1	0	23.95	26.55
				100	0	100	0	21.77	24.37
			16QAM	1	99	1	0	22.92	25.52
				100	0	100	0	20.73	23.33
			64QAM	1	99	1	0	21.94	24.54



I22Z60940-WMD01

				100	0	100	0	20.77	23.37
			256QAM	1	99	1	0	18.78	21.38
				100	0	100	0	18.72	21.32

A.2 Emission Limit

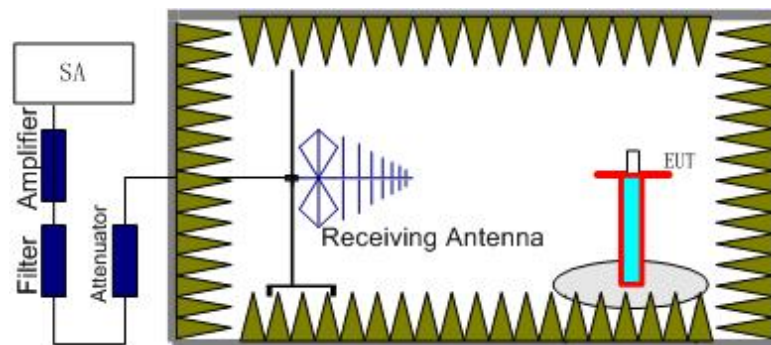
A.2.1 Measurement Method

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

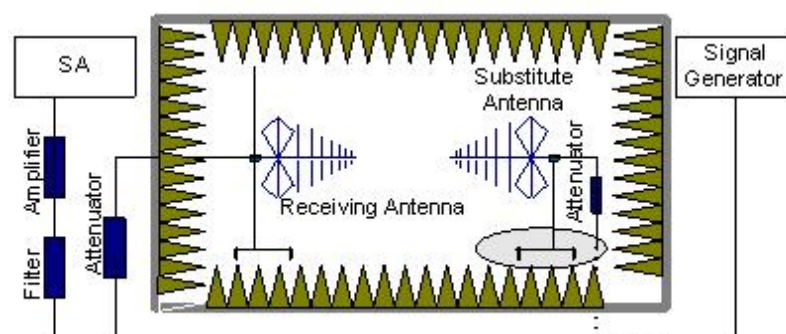
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and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

The procedure of radiated spurious emissions is as follows:

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



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



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the

substitution antenna. Adjust the level of the signal generator output until the value of the receiver reaches the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

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

An amplifier should be connected in for the test.

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

The measurement results are obtained as described below:

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

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

A.2.2 Measurement Limit

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

FDD Band 12: 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.

FDD Band 2: Part 24.238 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FDD Band 5: Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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



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.

First source:

LTE Band 2, 1.4MHz, QPSK, Channel 18607

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3702.02	-59.19	6.42	8.48	-57.13	-13.00	44.13	H
5553.02	-54.84	7.18	10.59	-51.43	-13.00	38.43	V
7404.01	-43.45	8.13	12.08	-39.50	-13.00	26.50	V
9254.01	-52.13	9.05	13.25	-47.93	-13.00	34.93	V
11064.01	-50.30	9.90	13.19	-47.01	-13.00	34.01	V
13000.01	-46.96	10.47	13.50	-43.93	-13.00	30.93	H

LTE Band 2, 1.4MHz, QPSK, Channel 18900

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3760.02	-58.66	6.26	8.56	-56.36	-13.00	43.36	V
5642.02	-57.58	7.27	10.57	-54.28	-13.00	41.28	H
7521.01	-42.27	8.31	12.22	-38.36	-13.00	25.36	V
9394.01	-53.38	9.04	13.34	-49.08	-13.00	36.08	V
11250.01	-49.06	9.70	13.15	-45.61	-13.00	32.61	V
13164.01	-44.49	10.66	13.73	-41.42	-13.00	28.42	V

LTE Band 2, 1.4MHz, QPSK, Channel 19193

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3819.02	-59.78	6.08	8.65	-57.21	-13.00	44.21	V
5710.02	-57.98	7.29	10.56	-54.71	-13.00	41.71	V
7636.01	-45.54	8.14	12.31	-41.37	-13.00	28.37	V
9589.01	-53.85	9.22	13.31	-49.76	-13.00	36.76	V
11458.01	-48.91	9.92	13.11	-45.72	-13.00	32.72	V
13348.01	-43.68	10.57	13.99	-40.26	-13.00	27.26	V

LTE Band 5, 1.4MHz, QPSK, Channel 20407

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1636.01	-54.83	3.56	5.26	2.15	-55.28	-13.00	42.28	H
2479.00	-32.28	4.60	6.04	2.15	-32.99	-13.00	19.99	H
3304.02	-60.65	5.29	7.73	2.15	-60.36	-13.00	47.36	V
4120.02	-56.80	6.04	9.02	2.15	-55.97	-13.00	42.97	V
4963.01	-57.22	6.67	9.86	2.15	-56.18	-13.00	43.18	V
5767.01	-57.10	7.24	10.55	2.15	-55.94	-13.00	42.94	V

LTE Band 5, 1.4MHz, QPSK, Channel 20525

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1665.01	-55.10	3.58	5.20	2.15	-55.63	-13.00	42.63	H
2522.00	-46.45	4.65	6.14	2.15	-47.11	-13.00	34.11	H
3356.02	-60.05	5.32	7.85	2.15	-59.67	-13.00	46.67	V
4175.02	-57.68	6.15	9.08	2.15	-56.90	-13.00	43.90	H
5030.01	-57.42	6.57	9.94	2.15	-56.20	-13.00	43.20	H
5847.01	-56.80	7.23	10.53	2.15	-55.65	-13.00	42.65	V

LTE Band 5, 1.4MHz, QPSK, Channel 20643

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1705.01	-54.13	3.60	5.13	2.15	-54.75	-13.00	41.75	V
2533.00	-46.60	4.66	6.16	2.15	-47.25	-13.00	34.25	H
3392.02	-60.11	5.35	7.94	2.15	-59.67	-13.00	46.67	V
4237.02	-56.53	6.25	9.14	2.15	-55.79	-13.00	42.79	H
5088.01	-56.74	6.74	10.02	2.15	-55.61	-13.00	42.61	V
5945.01	-55.96	7.47	10.51	2.15	-55.07	-13.00	42.07	H

LTE Band CA5B, QPSK, Channel 20450+20549

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1650.01	-53.26	3.57	5.23	2.15	-53.75	-13.00	40.75	H
2479.50	-45.49	4.60	6.04	2.15	-46.20	-13.00	33.20	H
3317.59	-60.85	5.29	7.76	2.15	-60.53	-13.00	47.53	V
4157.48	-56.97	6.11	9.06	2.15	-56.17	-13.00	43.17	V
4979.96	-57.05	6.64	9.88	2.15	-55.96	-13.00	42.96	V
5801.75	-56.59	7.19	10.54	2.15	-55.39	-13.00	42.39	V

LTE Band CA5B, QPSK, Channel 20476+20575

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1675.01	-54.53	3.58	5.18	2.15	-55.08	-13.00	42.08	H
2505.00	-47.52	4.63	6.11	2.15	-48.19	-13.00	35.19	H
3321.07	-61.87	5.29	7.77	2.15	-61.54	-13.00	48.54	V
4149.82	-57.21	6.09	9.05	2.15	-56.40	-13.00	43.40	V
4975.78	-57.63	6.65	9.88	2.15	-56.55	-13.00	43.55	H
5826.82	-56.65	7.16	10.53	2.15	-55.43	-13.00	42.43	V

LTE Band CA5B, QPSK, Channel 20501+20600

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1653.51	-54.47	3.57	5.22	2.15	-54.97	-13.00	41.97	H
2515.50	-46.31	4.64	6.13	2.15	-46.97	-13.00	33.97	H
3346.84	-60.47	5.32	7.83	2.15	-60.11	-13.00	47.11	V
4156.09	-57.16	6.11	9.06	2.15	-56.36	-13.00	43.36	V
5013.39	-57.50	6.58	9.92	2.15	-56.31	-13.00	43.31	H
5851.19	-56.79	7.24	10.53	2.15	-55.65	-13.00	42.65	V

LTE Band 7, 5MHz, QPSK, Channel 20775

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5005.02	-59.02	6.59	9.91	-55.70	-25.00	30.70	H
7510.01	-34.58	8.35	12.21	-30.72	-25.00	5.72	V
10014.01	-51.88	9.22	12.91	-48.19	-25.00	23.19	V
12521.01	-46.97	10.23	13.21	-43.99	-25.00	18.99	V
14998.00	-43.42	11.21	14.00	-40.63	-25.00	15.63	V
17537.00	-39.53	12.87	14.95	-37.45	-25.00	12.45	H

LTE Band 7, 5MHz, QPSK, Channel 21100

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5062.02	-58.13	6.66	9.99	-54.80	-25.00	29.80	V
7605.01	-39.10	8.00	12.28	-34.82	-25.00	9.82	V
10144.01	-49.27	9.39	12.96	-45.70	-25.00	20.70	H
12681.01	-41.34	10.33	13.31	-38.36	-25.00	13.36	H
15216.00	-42.15	11.38	13.87	-39.66	-25.00	14.66	H
17741.00	-40.49	12.41	15.24	-37.66	-25.00	12.66	V

LTE Band 7, 5MHz, QPSK, Channel 21425

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5119.02	-59.07	6.83	10.07	-55.83	-25.00	30.83	H
7702.01	-32.89	8.42	12.36	-28.95	-25.00	3.95	V
10270.01	-49.11	9.54	13.01	-45.64	-25.00	20.64	V
12838.01	-43.04	10.67	13.40	-40.31	-25.00	15.31	V
15416.00	-43.71	11.42	13.75	-41.38	-25.00	16.38	H
17954.00	-40.80	12.89	15.54	-38.15	-25.00	13.15	V

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1335.01	-55.31	3.16	4.64	2.15	-55.98	-13.00	42.98	H
1998.01	-49.22	4.05	4.60	2.15	-50.82	-13.00	37.82	H
2692.00	-44.77	4.78	6.45	2.15	-45.25	-13.00	32.25	H
3340.02	-60.77	5.31	7.82	2.15	-60.41	-13.00	47.41	V
4023.02	-58.74	6.05	8.92	2.15	-58.02	-13.00	45.02	V
4683.02	-58.12	6.49	9.58	2.15	-57.18	-13.00	44.18	V

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
1415.01	-55.32	3.25	5.06	2.15	-55.66	-13.00	42.66	V
2127.00	-49.55	4.22	4.98	2.15	-50.94	-13.00	37.94	H
2819.00	-45.93	4.94	6.67	2.15	-46.35	-13.00	33.35	H
3539.02	-58.43	5.71	8.25	2.15	-58.04	-13.00	45.04	H
4233.02	-57.49	6.26	9.13	2.15	-56.77	-13.00	43.77	H
4949.01	-56.75	6.69	9.85	2.15	-55.74	-13.00	42.74	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
1443.01	-55.47	3.30	5.20	2.15	-55.72	-13.00	42.72	H
2149.00	-48.71	4.25	5.05	2.15	-50.06	-13.00	37.06	H
2851.00	-44.73	4.96	6.73	2.15	-45.11	-13.00	32.11	H
3585.02	-58.23	6.18	8.32	2.15	-58.24	-13.00	45.24	V
4284.02	-57.88	6.21	9.18	2.15	-57.06	-13.00	44.06	V
4996.01	-57.71	6.61	9.90	2.15	-56.57	-13.00	43.57	H

LTE Band 13, 5MHz, QPSK, Channel 23205

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.25	-66.11	3.47	5.39	0.00	-66.34	-40.00	26.34	H
2341.74	-47.25	4.45	5.63	2.15	-48.22	-13.00	35.22	H
3121.02	-58.64	5.39	7.29	2.15	-58.89	-13.00	45.89	H
3897.52	-59.28	6.11	8.76	2.15	-58.78	-13.00	45.78	H
4677.52	-59.08	6.49	9.58	2.15	-58.14	-13.00	45.14	V
5460.01	-57.72	6.91	10.54	2.15	-56.24	-13.00	43.24	V

LTE Band 13, 5MHz, QPSK, Channel 23230

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.41	-66.26	3.48	5.38	0.00	-66.51	-40.00	26.51	H
2343.92	-47.72	4.45	5.63	2.15	-48.69	-13.00	35.69	H
3129.02	-58.90	5.40	7.31	2.15	-59.14	-13.00	46.14	V
3907.02	-58.55	6.11	8.77	2.15	-58.04	-13.00	45.04	V
4689.52	-59.14	6.50	9.59	2.15	-58.20	-13.00	45.20	V
5473.51	-57.99	6.96	10.56	2.15	-56.54	-13.00	43.54	V

LTE Band 13, 5MHz, QPSK, Channel 23255

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Polarization
1569.05	-66.57	3.48	5.38	0.00	-66.82	-40.00	26.82	H
2338.98	-48.34	4.44	5.62	2.15	-49.31	-13.00	36.31	H
3134.52	-58.56	5.39	7.32	2.15	-58.78	-13.00	45.78	V
3931.52	-59.49	6.12	8.80	2.15	-58.96	-13.00	45.96	V
4693.52	-58.67	6.50	9.59	2.15	-57.73	-13.00	44.73	V
5495.01	-57.70	7.04	10.59	2.15	-56.30	-13.00	43.30	H

Note: For LTE Band 13, the Peak Power of the frequency points with 0dB correction are EIRP, the others are ERP.

LTE Band 48, QPSK, Channel 55265

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7129.00	-54.79	8.17	11.75	-51.21	NA	NA	H
10665.00	-51.88	9.30	13.13	-48.05	NA	NA	V
12430.00	-48.95	10.36	13.17	-46.14	NA	NA	V
14224.00	-44.64	10.90	14.46	-41.08	NA	NA	H
16002.00	-43.04	11.82	13.70	-41.16	NA	NA	H
17743.00	-39.72	12.42	15.24	-36.90	NA	NA	V

LTE Band 48, QPSK, Channel 55990

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7251.00	-50.97	8.15	11.90	-47.22	NA	NA	V
9064.00	-53.37	9.03	13.14	-49.26	NA	NA	V
10876.00	-47.27	9.61	13.18	-43.70	NA	NA	V
12664.00	-48.95	10.36	13.30	-46.01	NA	NA	H
14476.00	-45.19	10.96	14.40	-41.75	NA	NA	H
16341.00	-41.32	11.81	13.63	-39.50	NA	NA	H

LTE Band 48, QPSK, Channel 56715

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7419.00	-53.69	8.17	12.10	-49.76	NA	NA	V
9242.00	-54.13	9.02	13.25	-49.90	NA	NA	H
11075.00	-50.42	9.88	13.18	-47.12	NA	NA	V
12952.00	-48.03	10.49	13.47	-45.05	NA	NA	V
14782.00	-44.32	11.14	14.17	-41.29	NA	NA	H
16640.00	-40.34	11.90	13.66	-38.58	NA	NA	H

LTE Band 66, 1.4MHz QPSK, Channel 131979

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3422.02	-69.92	5.38	8.01	-67.29	-13.00	54.29	H
6843.01	-61.11	7.83	11.41	-57.53	-13.00	44.53	V
10317.01	-61.38	9.67	13.03	-58.02	-13.00	45.02	V
13635.01	-54.00	10.76	14.28	-50.48	-13.00	37.48	V
15352.00	-54.22	11.34	13.79	-51.77	-13.00	38.77	H
17156.00	-49.67	12.49	14.14	-48.02	-13.00	35.02	H

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3539.02	-71.26	5.71	8.25	-68.72	-13.00	55.72	V
6980.01	-61.98	8.14	11.58	-58.54	-13.00	45.54	V
10452.01	-60.57	9.72	13.08	-57.21	-13.00	44.21	V
13908.01	-54.81	10.81	14.44	-51.18	-13.00	38.18	H
15754.00	-53.84	11.64	13.70	-51.78	-13.00	38.78	H
17424.00	-49.52	12.55	14.73	-47.34	-13.00	34.34	H

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3559.02	-69.85	5.92	8.28	-67.49	-13.00	54.49	V
7118.01	-61.83	8.16	11.74	-58.25	-13.00	45.25	V
10730.01	-61.18	9.38	13.15	-57.41	-13.00	44.41	V
14240.01	-54.01	10.92	14.45	-50.48	-13.00	37.48	V
16068.00	-53.80	11.84	13.69	-51.95	-13.00	38.95	H
17810.00	-50.91	12.75	15.33	-48.33	-13.00	35.33	H

LTE Band CA66B, QPSK, Channel 132022+132021

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3506.01	-72.19	5.53	8.21	-69.51	-13.00	56.51	H
5253.01	-70.70	7.00	10.25	-67.45	-13.00	54.45	V
6999.01	-64.65	8.29	11.60	-61.34	-13.00	48.34	V
8741.01	-64.08	8.48	13.05	-59.51	-13.00	46.51	V
10461.01	-60.67	9.71	13.08	-57.30	-13.00	44.30	V
12227.00	-59.05	10.04	13.09	-56.00	-13.00	43.00	V

LTE Band CA66B, QPSK, Channel 132373+132472

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3479.01	-72.12	5.48	8.15	-69.45	-13.00	56.45	H
5241.01	-70.54	7.00	10.24	-67.30	-13.00	54.30	V
6995.01	-64.64	8.26	11.59	-61.31	-13.00	48.31	V
8740.01	-63.92	8.48	13.05	-59.35	-13.00	46.35	V
10453.01	-60.74	9.72	13.08	-57.38	-13.00	44.38	V
12223.00	-58.86	10.04	13.09	-55.81	-13.00	42.81	V

LTE Band CA66B, QPSK, Channel 132523+132622

Frequency (MHz)	PMea (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3509.01	-72.17	5.54	8.21	-69.50	-13.00	56.50	H
5216.01	-70.58	6.98	10.20	-67.36	-13.00	54.36	H
6993.01	-64.76	8.24	11.59	-61.41	-13.00	48.41	V
8744.01	-64.15	8.49	13.05	-59.59	-13.00	46.59	V
10457.01	-60.65	9.72	13.08	-57.29	-13.00	44.29	V
12225.00	-59.05	10.04	13.09	-56.00	-13.00	43.00	V

LTE Band CA66C, QPSK, Channel 132025+132145

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3431.01	-64.04	5.39	8.03	-61.40	-13.00	48.40	V
5130.01	-69.58	6.85	10.08	-66.35	-13.00	53.35	V
6864.01	-63.77	7.80	11.44	-60.13	-13.00	47.13	V
8594.01	-57.72	8.50	13.02	-53.20	-13.00	40.20	H
10324.01	-61.28	9.68	13.03	-57.93	-13.00	44.93	V
12039.00	-58.84	10.17	13.02	-55.99	-13.00	42.99	V

LTE Band CA66C, QPSK, Channel 132351+132471

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3496.01	-68.71	5.51	8.19	-66.03	-13.00	53.03	V
5244.01	-70.54	7.00	10.24	-67.30	-13.00	54.30	V
6994.01	-64.03	8.25	11.59	-60.69	-13.00	47.69	V
8744.01	-62.76	8.49	13.05	-58.20	-13.00	45.20	H
10454.01	-60.80	9.72	13.08	-57.44	-13.00	44.44	V
12234.00	-59.02	10.04	13.09	-55.97	-13.00	42.97	V

LTE Band CA66C, QPSK, Channel 132477+132597

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3474.01	-72.13	5.47	8.14	-69.46	-13.00	56.46	H
5227.01	-70.70	7.00	10.22	-67.48	-13.00	54.48	H
6992.01	-64.73	8.24	11.59	-61.38	-13.00	48.38	V
8739.01	-64.09	8.48	13.05	-59.52	-13.00	46.52	V
10451.01	-60.68	9.73	13.08	-57.33	-13.00	44.33	V
12234.00	-59.08	10.04	13.09	-56.03	-13.00	43.03	V

LTE_CA2A-66A, Low Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3687.01	-60.22	6.46	8.46	-58.22	-13.00	45.22	H
5553.01	-58.94	7.18	10.59	-55.53	-13.00	42.53	H
7425.01	-52.68	8.19	12.11	-48.76	-13.00	35.76	H
9280.01	-52.77	9.11	13.27	-48.61	-13.00	35.61	V
11108.00	-50.60	9.80	13.18	-47.22	-13.00	34.22	V
13004.00	-45.95	10.48	13.51	-42.92	-13.00	29.92	H

LTE_CA2A-66A, Middle Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3760.01	-55.90	6.26	8.56	-53.60	-13.00	40.60	V
5610.01	-56.54	7.25	10.58	-53.21	-13.00	40.21	V
7520.01	-43.02	8.31	12.22	-39.11	-13.00	26.11	V
9396.01	-53.35	9.04	13.34	-49.05	-13.00	36.05	H
11251.00	-49.38	9.70	13.15	-45.93	-13.00	32.93	V
13152.00	-43.98	10.71	13.71	-40.98	-13.00	27.98	V

LTE_CA2A-66A, High Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3810.01	-59.38	6.11	8.63	-56.86	-13.00	43.86	V
5714.01	-57.34	7.30	10.56	-54.08	-13.00	41.08	V
7621.01	-43.96	8.07	12.30	-39.73	-13.00	26.73	V
9508.01	-53.56	9.51	13.39	-49.68	-13.00	36.68	V
11453.00	-48.51	9.93	13.11	-45.33	-13.00	32.33	V
13363.00	-43.99	10.57	14.01	-40.55	-13.00	27.55	V

LTE_CA2A-4A, Low Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3710.01	-58.97	6.40	8.49	-56.88	-13.00	43.88	V
5565.01	-54.08	7.20	10.59	-50.69	-13.00	37.69	V
7419.01	-41.93	8.17	12.10	-38.00	-13.00	25.00	V
9261.01	-51.24	9.06	13.26	-47.04	-13.00	34.04	V
11104.00	-50.10	9.82	13.18	-46.74	-13.00	33.74	V
12986.00	-45.00	10.47	13.49	-41.98	-13.00	28.98	H

LTE_CA2A-4A, Middle Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3742.01	-59.68	6.32	8.54	-57.46	-13.00	44.46	V
5641.01	-58.21	7.27	10.57	-54.91	-13.00	41.91	V
7523.01	-42.27	8.30	12.22	-38.35	-13.00	25.35	V
9376.01	-53.03	9.06	13.33	-48.76	-13.00	35.76	V
11263.00	-49.51	9.78	13.15	-46.14	-13.00	33.14	V
13142.00	-42.95	10.75	13.70	-40.00	-13.00	27.00	V

LTE_CA2A-4A, High Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3810.01	-59.51	6.11	8.63	-56.99	-13.00	43.99	V
5717.01	-58.36	7.30	10.56	-55.10	-13.00	42.10	V
7620.01	-44.16	8.06	12.30	-39.92	-13.00	26.92	V
9514.01	-53.91	9.49	13.39	-50.01	-13.00	37.01	V
11401.00	-48.32	10.06	13.12	-45.26	-13.00	32.26	V
13306.00	-43.87	10.58	13.93	-40.52	-13.00	27.52	V

LTE_CA2A-5A, Low Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3727.01	-60.28	6.36	8.52	-58.12	-13.00	45.12	V
5571.01	-58.82	7.20	10.59	-55.43	-13.00	42.43	H
7416.01	-53.50	8.16	12.10	-49.56	-13.00	36.56	V
9283.01	-52.47	9.11	13.27	-48.31	-13.00	35.31	V
11109.00	-50.82	9.80	13.18	-47.44	-13.00	34.44	V
13007.00	-46.23	10.50	13.51	-43.22	-13.00	30.22	H

LTE_CA2A-5A, Middle Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3749.01	-60.02	6.30	8.55	-57.77	-13.00	44.77	V
5614.01	-58.22	7.25	10.58	-54.89	-13.00	41.89	V
7520.01	-53.69	8.31	12.22	-49.78	-13.00	36.78	V
9393.01	-52.94	9.04	13.34	-48.64	-13.00	35.64	V
11265.00	-49.21	9.79	13.15	-45.85	-13.00	32.85	V
13141.00	-44.47	10.76	13.70	-41.53	-13.00	28.53	V

LTE_CA2A-5A, High Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3805.01	-61.30	6.12	8.63	-58.79	-13.00	45.79	H
5691.01	-57.69	7.29	10.56	-54.42	-13.00	41.42	V
7623.01	-53.82	8.08	12.30	-49.60	-13.00	36.60	H
9501.01	-53.41	9.54	13.40	-49.55	-13.00	36.55	V
11411.00	-48.39	10.04	13.12	-45.31	-13.00	32.31	V
13341.00	-44.21	10.57	13.98	-40.80	-13.00	27.80	V

LTE_CA2A-13A, Low Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3720.01	-59.49	6.38	8.51	-57.36	-13.00	44.36	V
5559.01	-59.16	7.19	10.59	-55.76	-13.00	42.76	V
7408.01	-52.67	8.14	12.09	-48.72	-13.00	35.72	V
9284.01	-52.19	9.12	13.27	-48.04	-13.00	35.04	V
11101.00	-49.47	9.83	13.18	-46.12	-13.00	33.12	V
13014.00	-46.17	10.53	13.52	-43.18	-13.00	30.18	V

LTE_CA2A-13A, Middle Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3741.01	-58.86	6.32	8.54	-56.64	-13.00	43.64	V
5667.01	-57.89	7.28	10.57	-54.60	-13.00	41.60	V
7494.01	-53.40	8.38	12.19	-49.59	-13.00	36.59	V
9370.01	-53.32	9.07	13.32	-49.07	-13.00	36.07	V
11301.00	-48.61	10.00	13.14	-45.47	-13.00	32.47	V
13185.00	-44.34	10.56	13.76	-41.14	-13.00	28.14	H

LTE_CA2A-13A, High Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3757.01	-59.80	6.27	8.56	-57.51	-13.00	44.51	V
5627.01	-58.29	7.26	10.57	-54.98	-13.00	41.98	V
7499.01	-53.71	8.39	12.20	-49.90	-13.00	36.90	V
9372.01	-53.06	9.07	13.32	-48.81	-13.00	35.81	V
11252.00	-49.20	9.71	13.15	-45.76	-13.00	32.76	V
13145.00	-43.79	10.74	13.70	-40.83	-13.00	27.83	V

LTE_CA4A-5A, Low Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3445.01	-62.07	5.42	8.07	-59.42	-13.00	46.42	H
5110.01	-58.93	6.80	10.05	-55.68	-13.00	42.68	H
6869.01	-54.05	7.80	11.44	-50.41	-13.00	37.41	V
8583.01	-53.60	8.52	13.02	-49.10	-13.00	36.10	V
10301.01	-50.80	9.64	13.02	-47.42	-13.00	34.42	V
12013.00	-47.30	10.09	13.01	-44.38	-13.00	31.38	V

LTE_CA4A-5A, Middle Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3480.01	-61.18	5.48	8.15	-58.51	-13.00	45.51	H
5198.01	-59.61	6.96	10.18	-56.39	-13.00	43.39	V
6933.01	-54.95	7.78	11.52	-51.21	-13.00	38.21	V
8664.01	-49.27	8.41	13.03	-44.65	-13.00	31.65	V
10384.01	-50.30	9.78	13.05	-47.03	-13.00	34.03	V
12149.00	-48.48	10.21	13.06	-45.63	-13.00	32.63	V

LTE_CA4A-5A, High Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3530.01	-60.91	5.62	8.24	-58.29	-13.00	45.29	V
5248.01	-60.15	7.00	10.25	-56.90	-13.00	43.90	H
7034.01	-53.75	8.25	11.64	-50.36	-13.00	37.36	V
8760.01	-52.36	8.54	13.05	-47.85	-13.00	34.85	V
10513.00	-49.46	9.60	13.10	-45.96	-13.00	32.96	V
12295.00	-47.72	10.00	13.12	-44.60	-13.00	31.60	V

LTE_CA4A-13A, Low Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4707.01	-60.72	6.51	9.61	-57.62	-13.00	44.62	V
5488.01	-59.38	7.01	10.58	-55.81	-13.00	42.81	V
6250.01	-57.22	7.44	10.75	-53.91	-13.00	40.91	V
7009.01	-54.51	8.29	11.61	-51.19	-13.00	38.19	V
7823.01	-52.38	8.32	12.46	-48.24	-13.00	35.24	V
8587.01	-53.29	8.52	13.02	-48.79	-13.00	35.79	V

LTE_CA4A-13A, Middle Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4696.01	-60.67	6.50	9.60	-57.57	-13.00	44.57	V
5471.01	-59.32	6.95	10.56	-55.71	-13.00	42.71	V
6236.01	-57.09	7.42	10.74	-53.77	-13.00	40.77	V
7021.01	-54.25	8.27	11.63	-50.89	-13.00	37.89	V
7824.01	-50.46	8.32	12.46	-46.32	-13.00	33.32	V
8597.01	-54.09	8.50	13.02	-49.57	-13.00	36.57	V

LTE_CA4A-13A, High Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3751.01	-59.39	6.29	8.55	-57.13	-13.00	44.13	V
5747.01	-54.74	7.27	10.55	-51.46	-13.00	38.46	V
7590.01	-54.06	8.02	12.27	-49.81	-13.00	36.81	V
9423.01	-53.49	9.15	13.35	-49.29	-13.00	36.29	H
11403.00	-49.42	10.06	13.12	-46.36	-13.00	33.36	V
13368.00	-44.56	10.57	14.02	-41.11	-13.00	28.11	H

LTE_CA5A-66A, Low Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)
2478.00	-46.78	4.60	6.03	2.15	-47.50	-13.00	34.50
3306.45	-59.19	5.29	7.74	2.15	-58.89	-13.00	45.89
4137.29	-56.34	6.06	9.04	2.15	-55.51	-13.00	42.51
4963.25	-57.62	6.67	9.86	2.15	-56.58	-13.00	43.58
5780.16	-57.16	7.22	10.54	2.15	-55.99	-13.00	42.99
6601.24	-53.21	7.80	11.12	2.15	-52.04	-13.00	39.04

LTE_CA5A-66A, Middle Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)
2510.00	-46.06	4.63	6.12	2.15	-46.72	-13.00	33.72
3345.45	-60.94	5.31	7.83	2.15	-60.57	-13.00	47.57
4183.25	-56.11	6.17	9.08	2.15	-55.35	-13.00	42.35
5011.30	-56.86	6.58	9.92	2.15	-55.67	-13.00	42.67
5856.07	-56.52	7.25	10.53	2.15	-55.39	-13.00	42.39
6680.64	-53.46	7.95	11.22	2.15	-52.34	-13.00	39.34

LTE_CA5A-66A, High Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)
2540.00	-44.68	4.66	6.17	2.15	-45.32	-13.00	32.32
3383.75	-60.69	5.35	7.92	2.15	-60.27	-13.00	47.27
4225.04	-55.60	6.26	9.13	2.15	-54.88	-13.00	41.88
5093.48	-57.52	6.75	10.03	2.15	-56.39	-13.00	43.39
5936.16	-56.58	7.47	10.51	2.15	-55.69	-13.00	42.69
6786.49	-52.24	7.91	11.34	2.15	-50.96	-13.00	37.96

LTE_CA13A-66A, Low Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)
1545.01	-55.70	3.46	5.42	2.15	-55.89	-13.00	42.89
2331.00	-47.51	4.43	5.59	2.15	-48.50	-13.00	35.50
3119.11	-54.81	5.38	7.29	2.15	-55.05	-13.00	42.05
3898.41	-58.47	6.11	8.76	2.15	-57.97	-13.00	44.97
4687.46	-58.66	6.49	9.59	2.15	-57.71	-13.00	44.71
5451.44	-57.89	6.88	10.53	2.15	-56.39	-13.00	43.39

LTE_CA13A-66A, Middle Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)
1578.01	-55.31	3.49	5.36	2.15	-55.59	-13.00	42.59
2346.50	-48.35	4.45	5.64	2.15	-49.31	-13.00	36.31
3128.86	-55.71	5.40	7.31	2.15	-55.95	-13.00	42.95
3915.82	-58.21	6.12	8.78	2.15	-57.70	-13.00	44.70
4683.28	-58.48	6.49	9.58	2.15	-57.54	-13.00	44.54
5470.94	-57.89	6.95	10.56	2.15	-56.43	-13.00	43.43

LTE_CA13A-66A, High Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)
1557.01	-55.41	3.47	5.40	2.15	-55.63	-13.00	42.63
2354.00	-47.47	4.46	5.66	2.15	-48.42	-13.00	35.42
3135.82	-58.82	5.39	7.33	2.15	-59.03	-13.00	46.03
3926.96	-58.85	6.12	8.80	2.15	-58.32	-13.00	45.32
4714.62	-58.29	6.52	9.61	2.15	-57.35	-13.00	44.35
5500.19	-57.14	7.06	10.60	2.15	-55.75	-13.00	42.75

Second source:
LTE Band 5, 1.4MHz, QPSK, Channel 20407

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1642.01	-54.21	3.56	5.24	2.15	-54.68	-13.00	41.68	H
2479.00	-32.28	4.60	6.04	2.15	-32.99	-13.00	19.99	H
3304.02	-60.65	5.29	7.73	2.15	-60.36	-13.00	47.36	V
4123.02	-56.50	6.04	9.02	2.15	-55.67	-13.00	42.67	V
4954.01	-57.16	6.68	9.85	2.15	-56.14	-13.00	43.14	H
5781.01	-56.30	7.22	10.54	2.15	-55.13	-13.00	42.13	V

LTE Band 5, 1.4MHz, QPSK, Channel 20525

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1665.01	-55.10	3.58	5.20	2.15	-55.63	-13.00	42.63	H
2522.00	-46.45	4.65	6.14	2.15	-47.11	-13.00	34.11	H
3356.02	-60.05	5.32	7.85	2.15	-59.67	-13.00	46.67	V
4175.02	-57.68	6.15	9.08	2.15	-56.90	-13.00	43.90	H
5030.01	-57.42	6.57	9.94	2.15	-56.20	-13.00	43.20	H
5847.01	-56.80	7.23	10.53	2.15	-55.65	-13.00	42.65	V

LTE Band 5, 1.4MHz, QPSK, Channel 20643

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1705.01	-54.13	3.60	5.13	2.15	-54.75	-13.00	41.75	V
2533.00	-46.60	4.66	6.16	2.15	-47.25	-13.00	34.25	H
3392.02	-60.11	5.35	7.94	2.15	-59.67	-13.00	46.67	V
4237.02	-56.53	6.25	9.14	2.15	-55.79	-13.00	42.79	H
5088.01	-56.74	6.74	10.02	2.15	-55.61	-13.00	42.61	V
5945.01	-55.96	7.47	10.51	2.15	-55.07	-13.00	42.07	H

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

A.3 Frequency Stability

A.3.1 Method of Measurement

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

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

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500, and in a simulated call on middle channel for each LTE band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the center channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C increments from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

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

A.3.2 Measurement results

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	1850.865	1909.199		
50				0.21	0.0001
40				0.97	0.0005
30				0.29	0.0002
10				0.62	0.0003
0				0.20	0.0001
-10				-0.06	0.0000
-20				-0.21	0.0001
-30				-0.93	0.0005

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	1850.865	1909.199	1.37	0.0007
4.4				0.63	0.0003

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	824.417	848.567		
50				7.27	0.0087
40				6.39	0.0076
30				-0.03	0.0000
10				0.90	0.0011
0				-0.09	0.0001
-10				6.19	0.0074
-20				7.38	0.0088
-30				6.28	0.0075

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	824.417	848.567	0.64	0.0008
4.4				-7.20	0.0086

LTE Band 7, 20MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	2500.897	2569.167		
50				0.90	0.0004
40				-9.50	0.0037
30				0.41	0.0002
10				1.80	0.0007
0				-0.46	0.0002
-10				-8.78	0.0035
-20				6.55	0.0026
-30				-0.20	0.0001

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	2500.897	2569.167	1.07	0.0004
4.4				-1.02	0.0004

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

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	699.481	715.519		
50				0.00	0.0000
40				0.00	0.0000
30				0.00	0.0000
10				0.00	0.0000
0				3.69	0.0052
-10				2.90	0.0041
-20				2.62	0.0037
-30				3.12	0.0044

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	699.481	715.519	0.00	0.0000
4.4				0.00	0.0000

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

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	777.481	786.519		
50				-33.43	0.0427
40				-2.17	0.0028
30				-29.43	0.0376
10				-33.63	0.0430
0				2.22	0.0028
-10				3.98	0.0051
-20				0.06	0.0001
-30				-29.20	0.0373

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	777.481	786.519	-30.98	0.0396
4.4				-31.09	0.0398

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	3.8	3550.801	3699.199		
50				1.97	0.0005
40				6.05	0.0017
30				6.67	0.0018
10				6.14	0.0017
0				6.05	0.0017
-10				3.59	0.0010
-20				4.38	0.0012
-30				4.75	0.0013

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	3550.801	3699.199	3.03	0.0008
4.4				5.84	0.0016

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

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	1710.833	1779.199		
50				-5.69	0.0033
40				-4.15	0.0024
30				-4.63	0.0027
10				0.56	0.0003
0				-4.42	0.0025
-10				-2.29	0.0013
-20				-3.25	0.0019
-30				-6.48	0.0037

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	1710.833	1779.199	-1.92	0.0011
4.4				-7.05	0.0040

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

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	824.329	848.693		
50				-0.86	0.0010
40				0.23	0.0003
30				0.10	0.0001
10				0.14	0.0002
0				-0.61	0.0007
-10				0.22	0.0003
-20				0.09	0.0001
-30				0.29	0.0003

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	824.329	848.693	-0.74	0.0009
4.4				-0.27	0.0003

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

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	3550.480	3699.540		
50				-1.17	0.0003
40				-1.19	0.0003
30				-2.39	0.0007
10				-2.96	0.0008
0				-4.28	0.0012
-10				-3.81	0.0010
-20				-4.08	0.0011
-30				-5.57	0.0015

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	3550.480	3699.540	-5.06	0.0014
4.4				-5.74	0.0016

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

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	1710.264	1779.729		
50				-0.29	0.0002
40				-0.04	0.0000
30				-0.30	0.0002
10				0.00	0.0000
0				0.32	0.0002
-10				-0.11	0.0001
-20				0.41	0.0002
-30				-0.10	0.0001

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	1710.264	1779.729	-0.09	0.0000
4.4				-0.03	0.0000

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	1710.543	1779.500		
50				-0.24	0.0001
40				0.39	0.0002
30				0.00	0.0000
10				-0.82	0.0005
0				0.34	0.0002
-10				0.10	0.0001
-20				-0.40	0.0002
-30				0.01	0.0000

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	1710.543	1779.500	-0.23	0.0001
4.4				-0.46	0.0003

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.

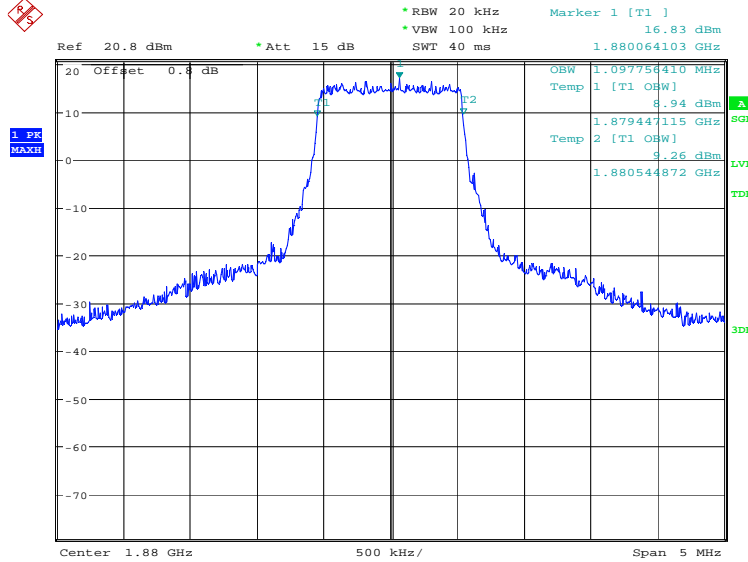
The measurement method is from ANSI C63.26:

- 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 $\geq 3 \times$ 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%)

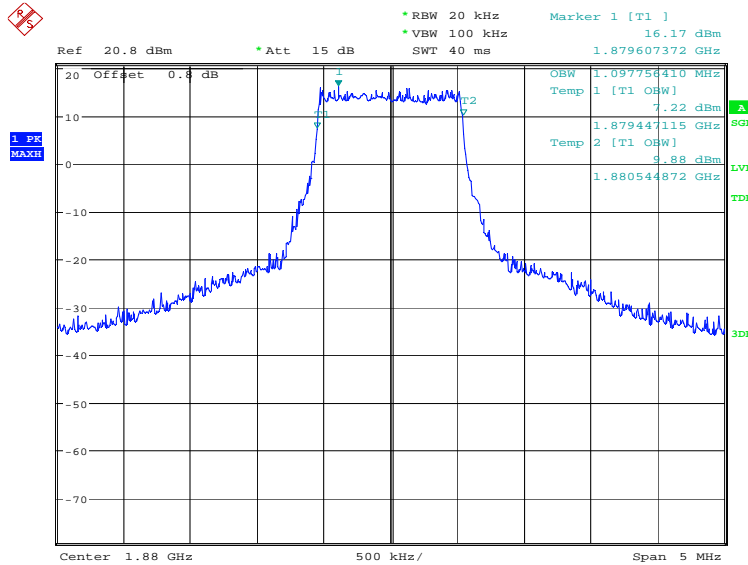
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	1097.76	1097.76

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



Date: 17.MAY.2022 12:39:17

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

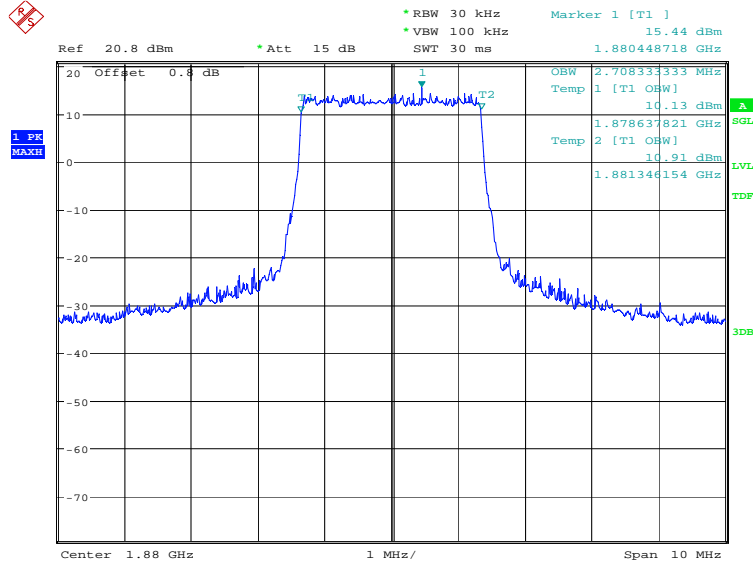


Date: 17.MAY.2022 12:39:56

LTE band 2, 3MHz (99%)

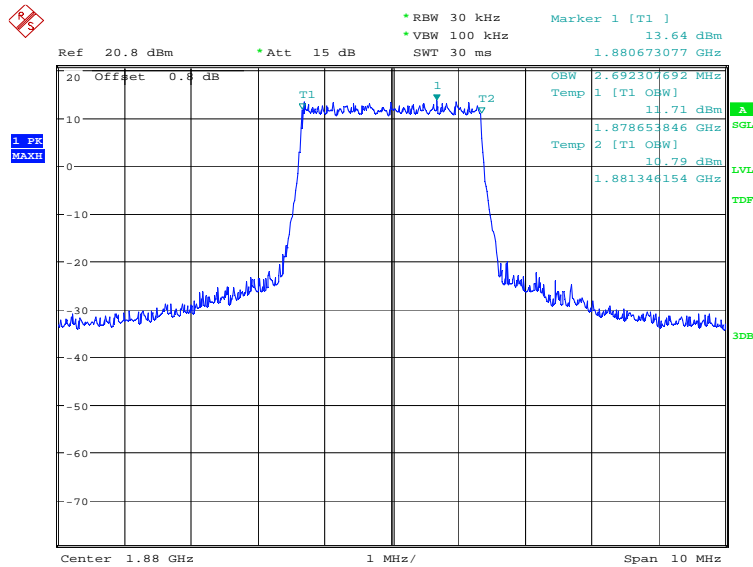
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	2708.33	2692.31

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



Date: 17.MAY.2022 12:40:40

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

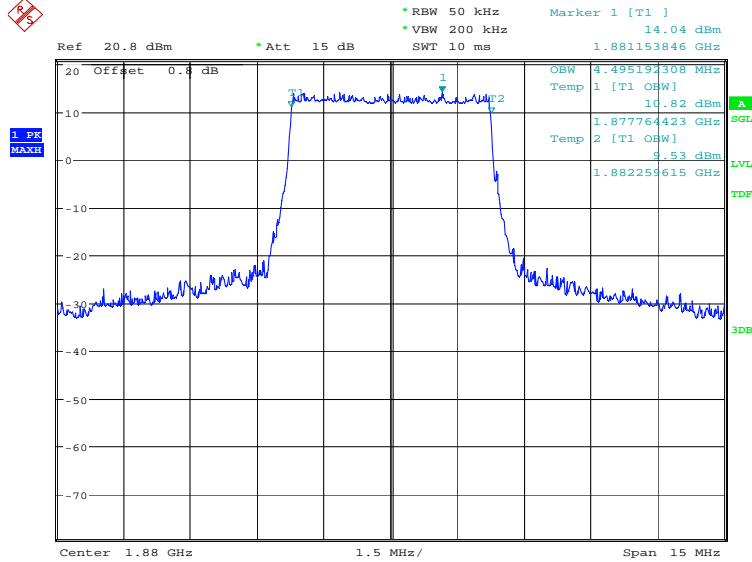


Date: 17.MAY.2022 12:41:20

LTE band 2, 5MHz (99%)

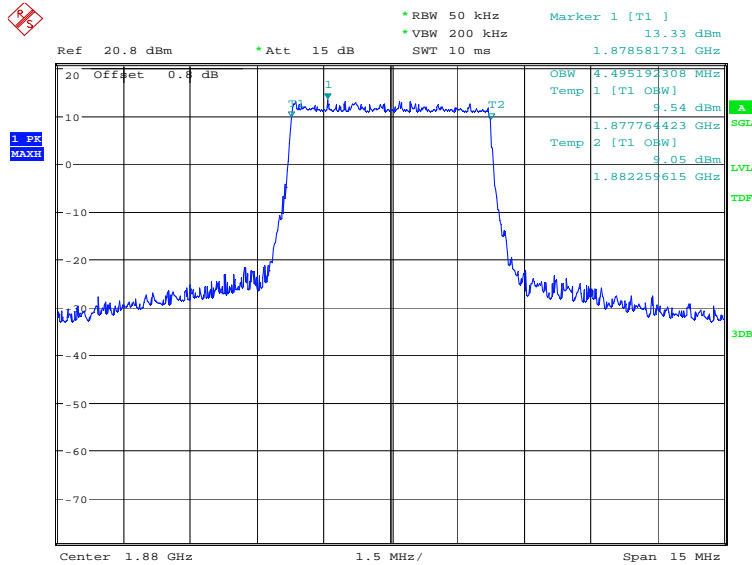
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 17.MAY.2022 12:42:04

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

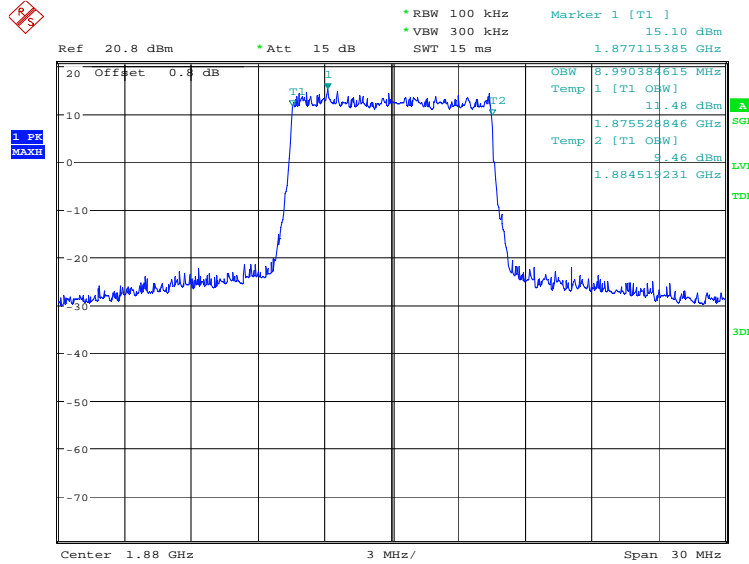


Date: 17.MAY.2022 12:42:43

LTE band 2, 10MHz (99%)

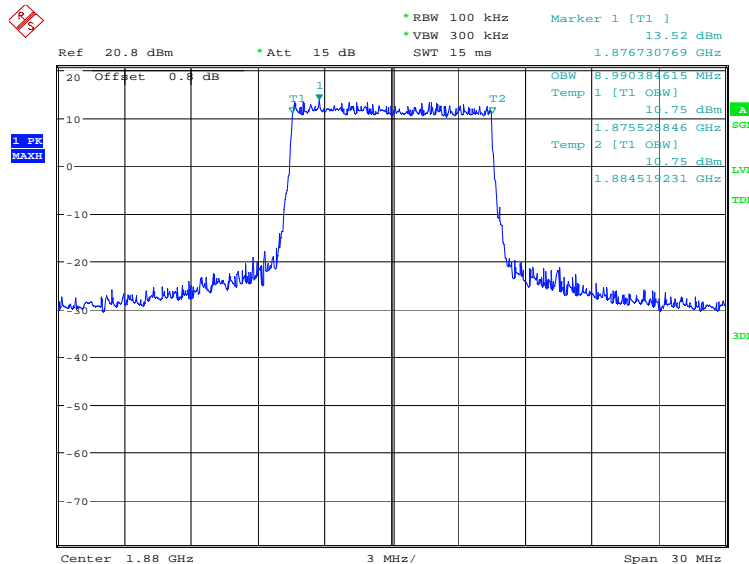
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	8990.38	8990.38

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



Date: 17.MAY.2022 12:43:28

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

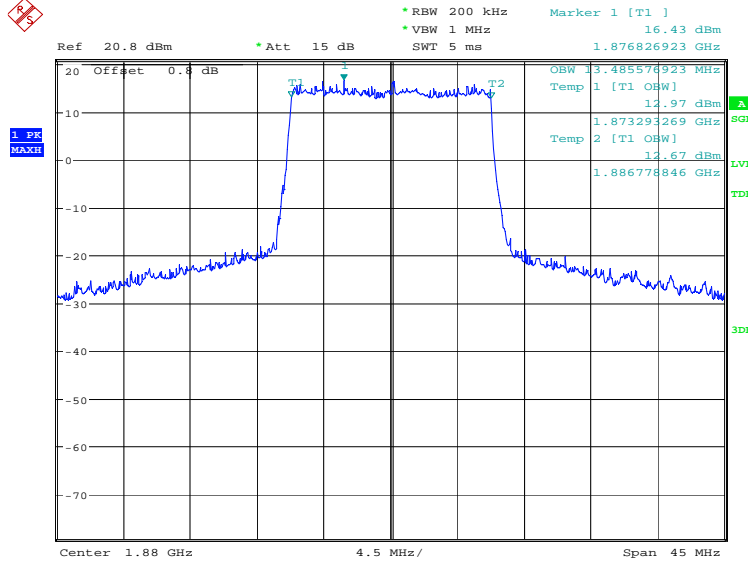


Date: 17.MAY.2022 12:44:07

LTE band 2, 15MHz (99%)

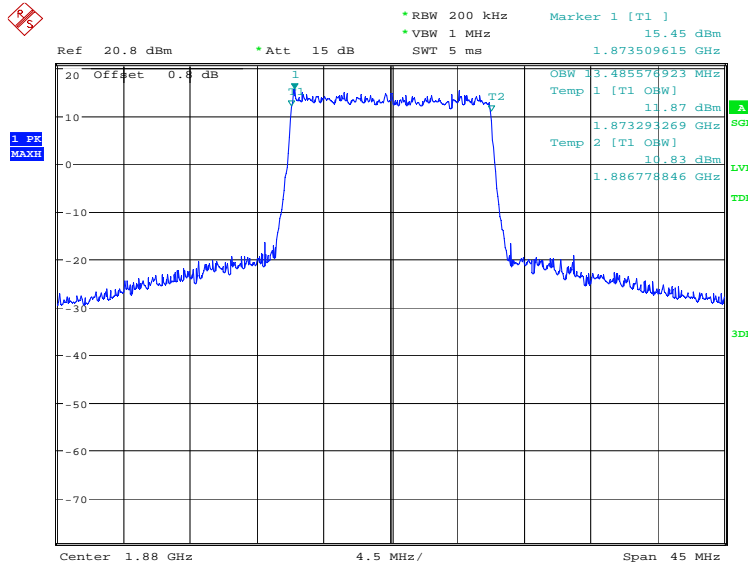
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 17.MAY.2022 12:44:52

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

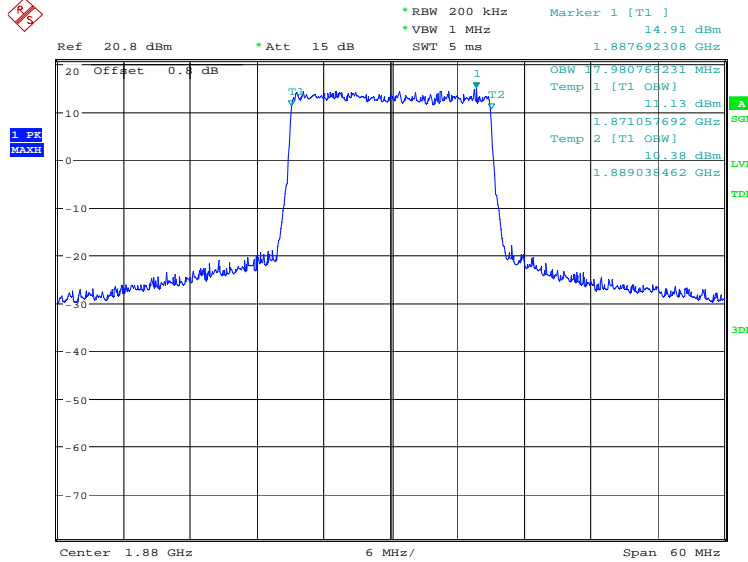


Date: 17.MAY.2022 12:45:31

LTE band 2, 20MHz (99%)

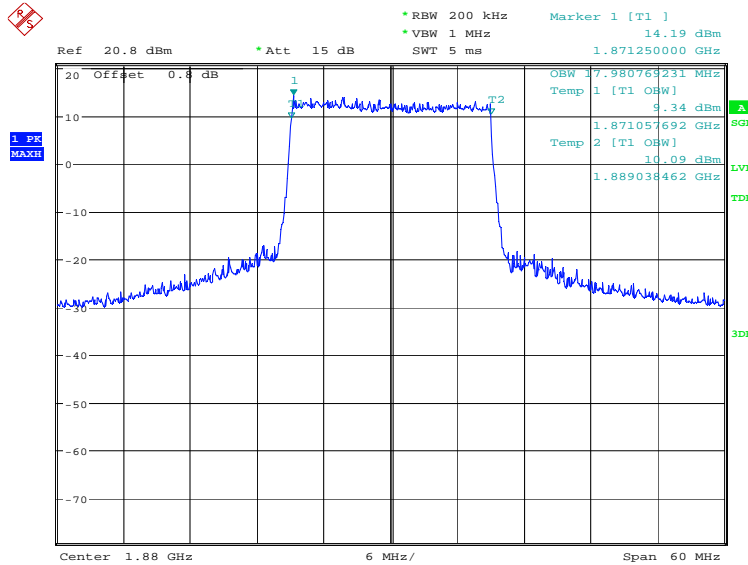
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	17980.77	17980.77

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



Date: 17.MAY.2022 12:46:16

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

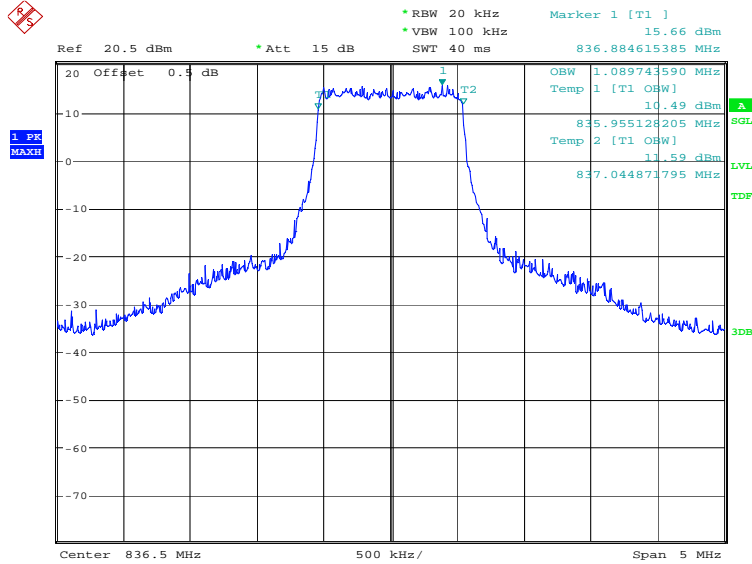


Date: 17.MAY.2022 12:46:55

LTE band 5, 1.4MHz (99%)

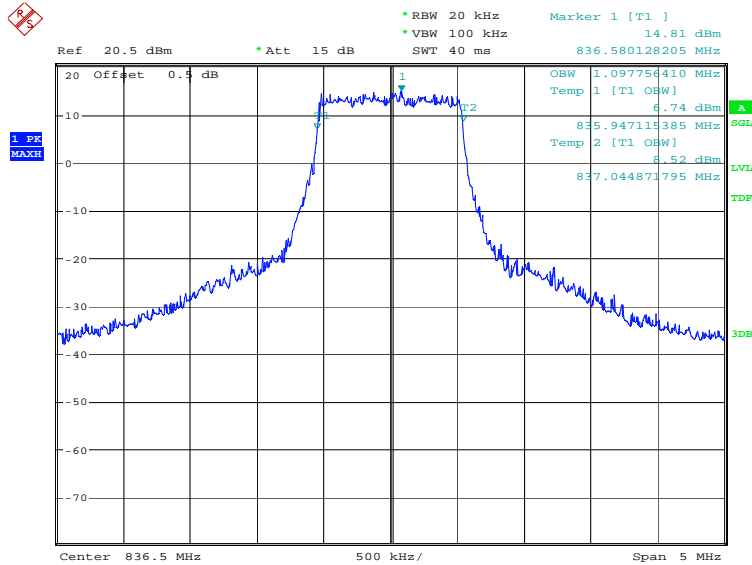
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1089.74	1097.76

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



Date: 17.MAY.2022 12:48:32

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

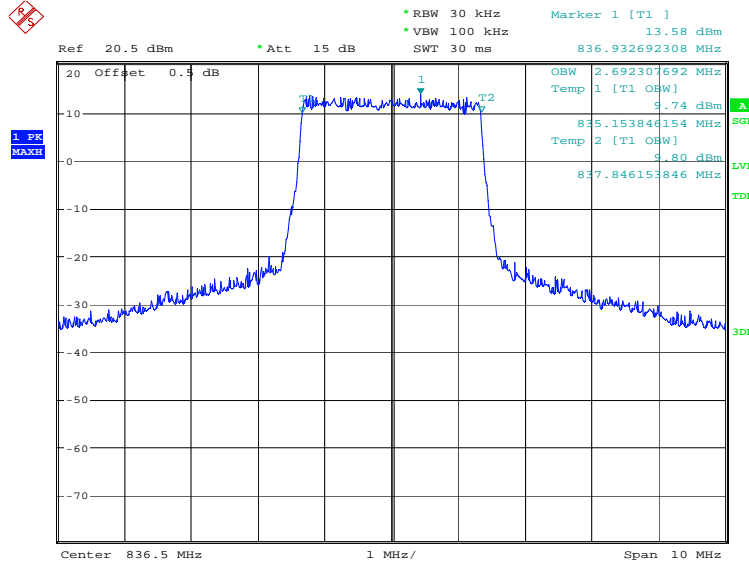


Date: 17.MAY.2022 12:49:12

LTE band 5, 3MHz (99%)

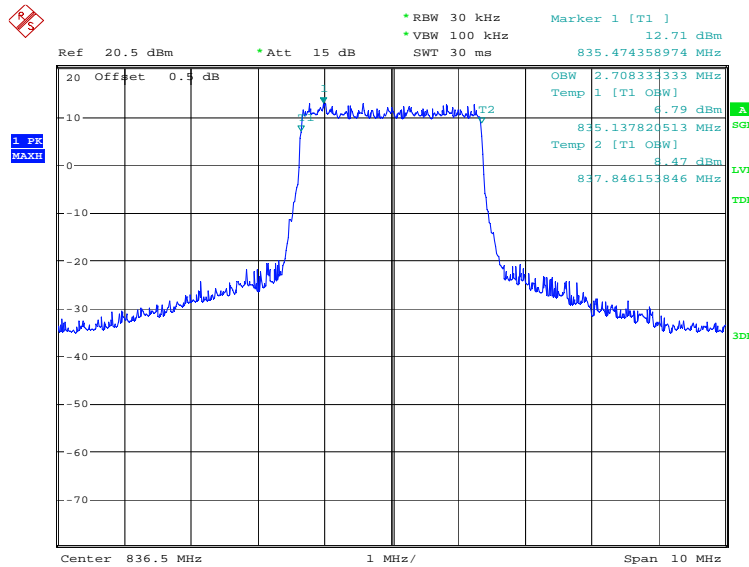
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2708.33

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



Date: 17.MAY.2022 12:49:56

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

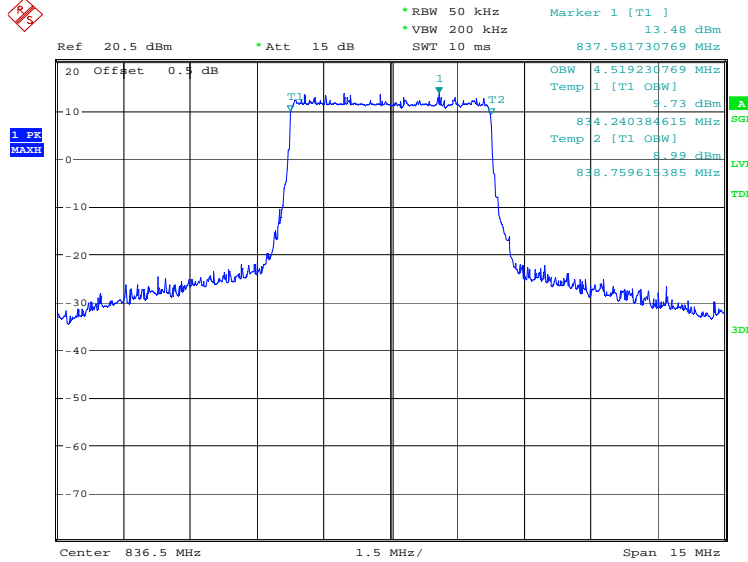


Date: 17.MAY.2022 12:50:35

LTE band 5, 5MHz (99%)

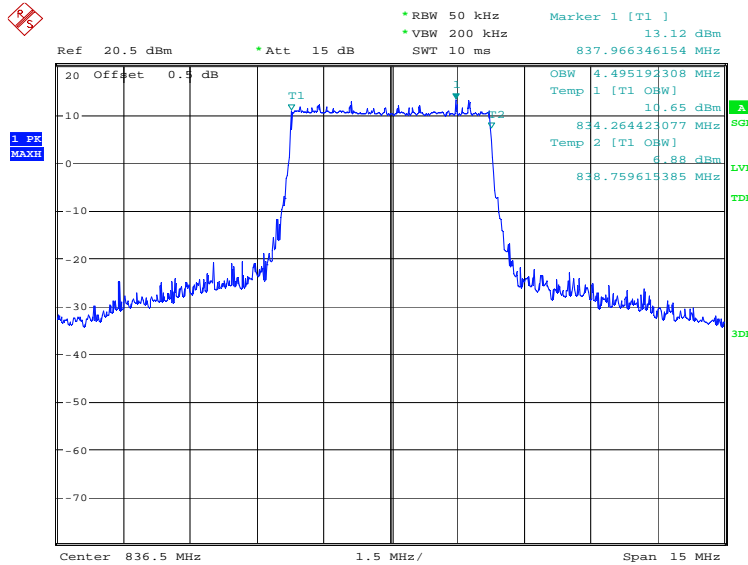
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	4519.23	4495.19

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



Date: 17.MAY.2022 12:51:19

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

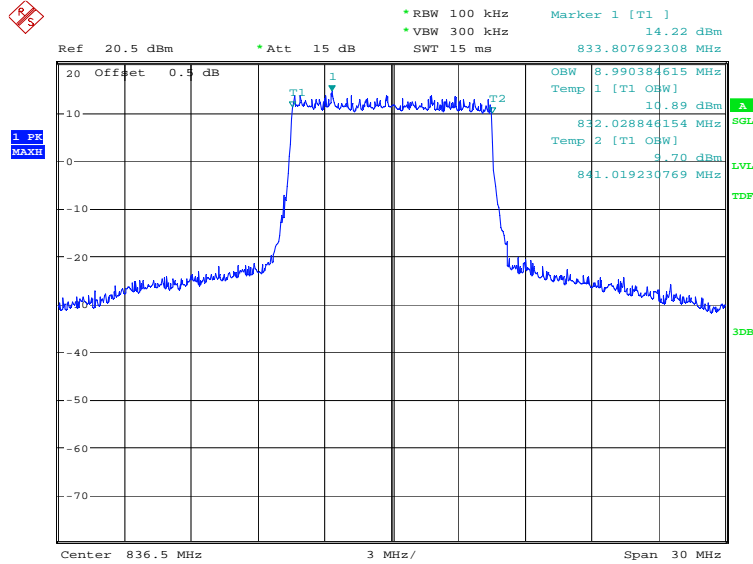


Date: 17.MAY.2022 12:51:59

LTE band 5, 10MHz (99%)

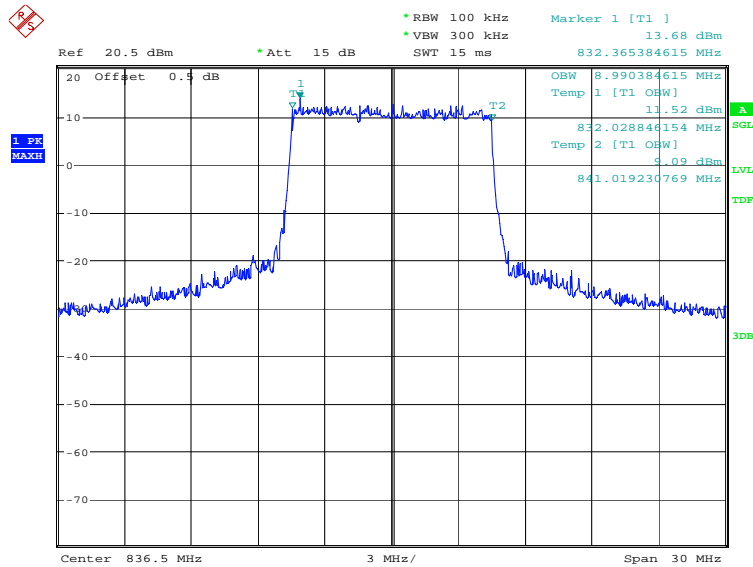
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8990.38	8990.38

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



Date: 17.MAY.2022 12:52:43

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

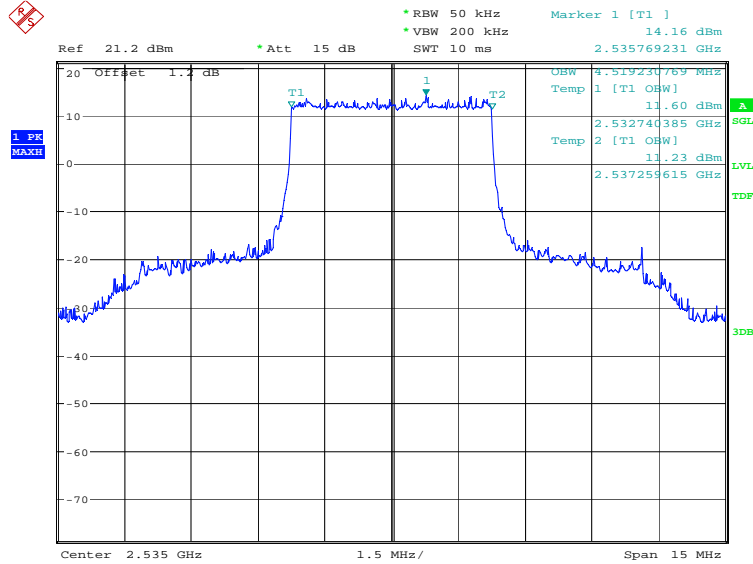


Date: 17.MAY.2022 12:53:22

LTE band 7, 5MHz (99%)

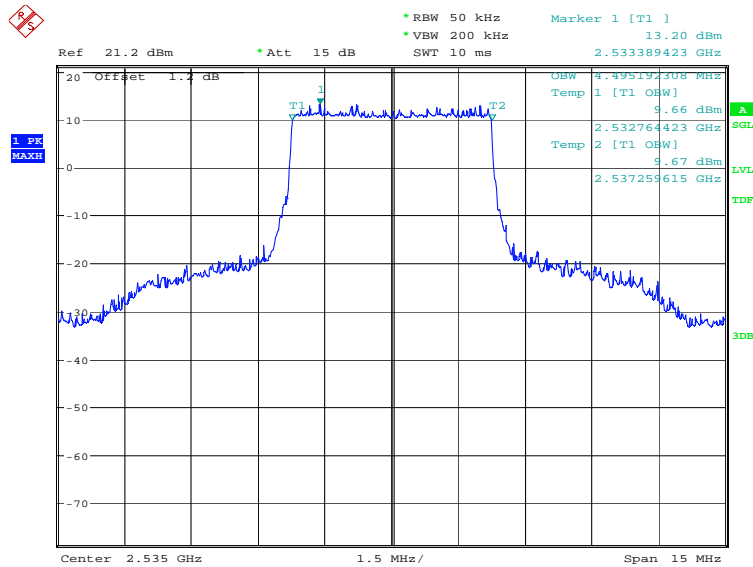
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	4519.23	4495.19

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



Date: 17.MAY.2022 12:54:12

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

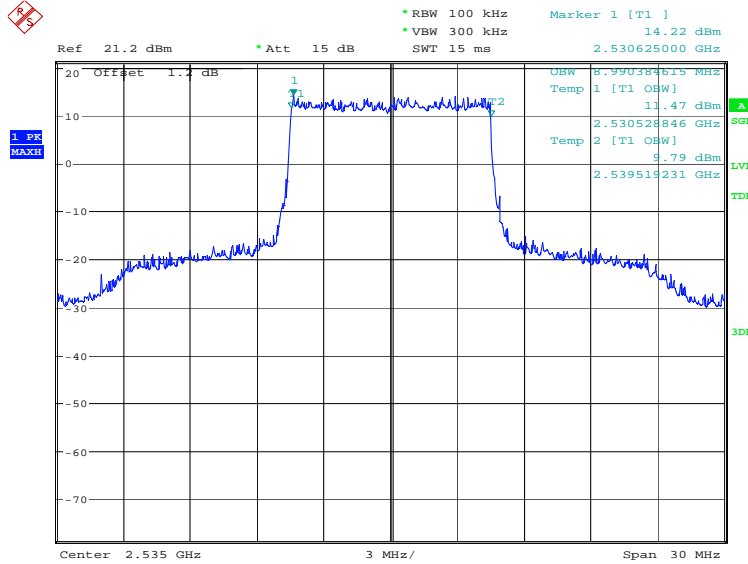


Date: 17.MAY.2022 12:54:51

LTE band 7, 10MHz (99%)

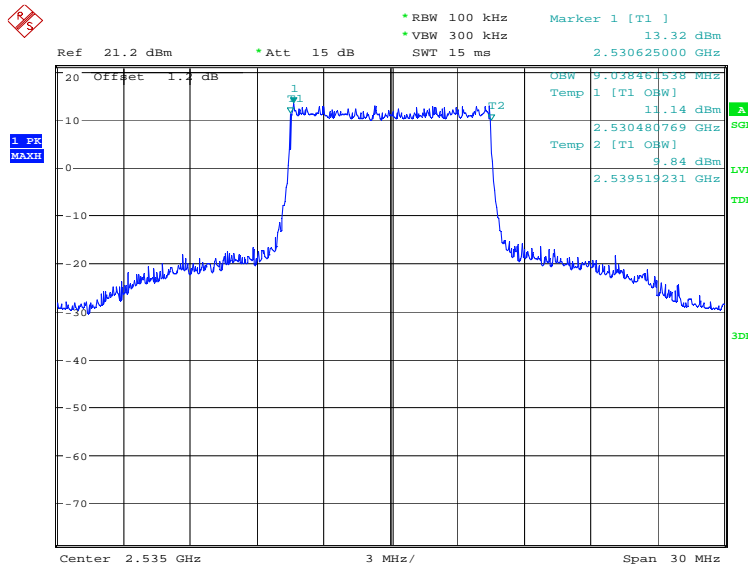
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	8990.38	9038.46

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



Date: 17.MAY.2022 12:55:35

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

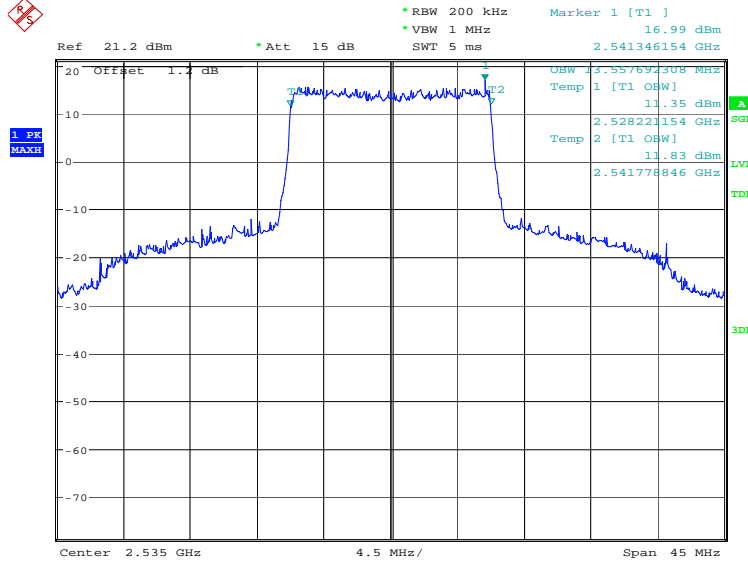


Date: 17.MAY.2022 12:56:15

LTE band 7, 15MHz (99%)

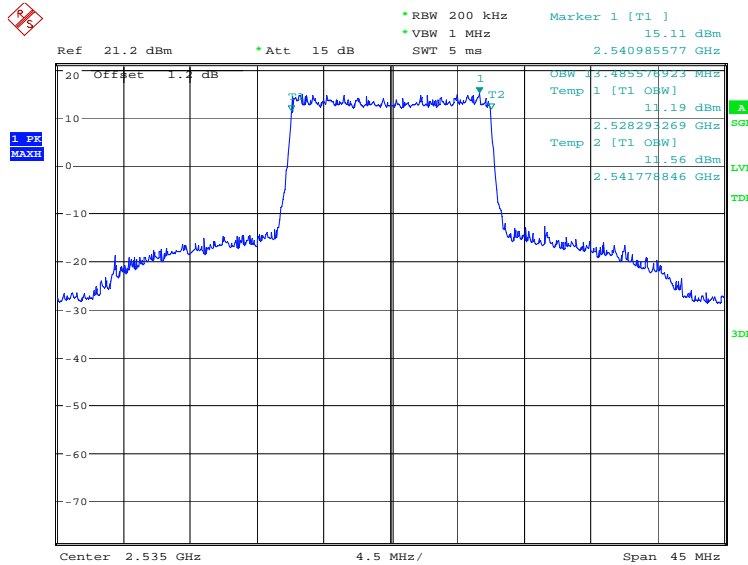
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	13557.69	13485.58

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



Date: 17.MAY.2022 12:56:59

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

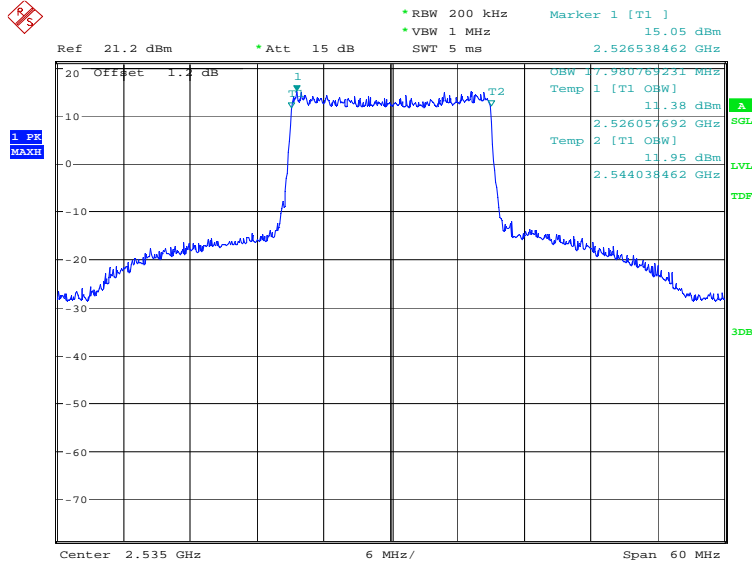


Date: 17.MAY.2022 12:57:38

LTE band 7, 20MHz (99%)

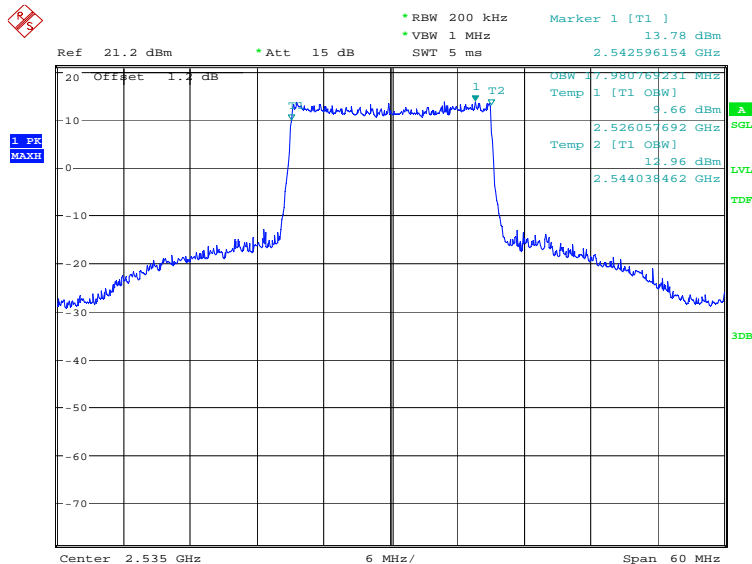
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	17980.77	17980.77

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



Date: 17.MAY.2022 12:58:22

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

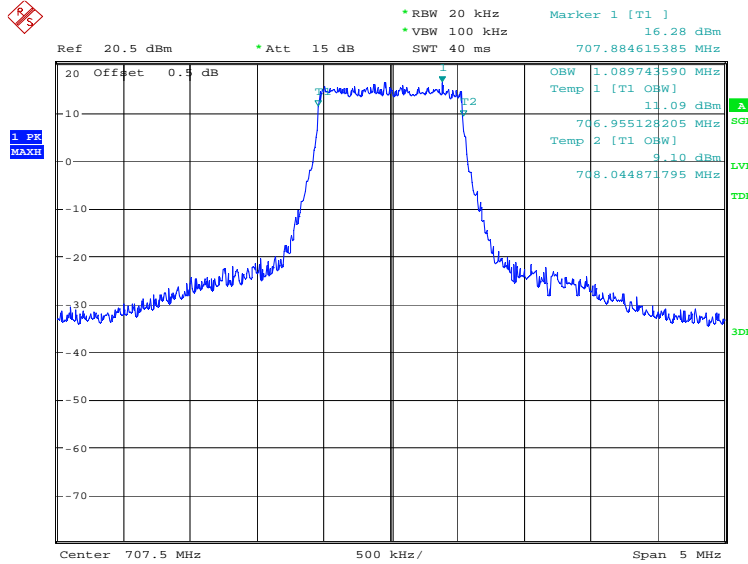


Date: 17.MAY.2022 12:59:02

LTE band 12, 1.4MHz (99%)

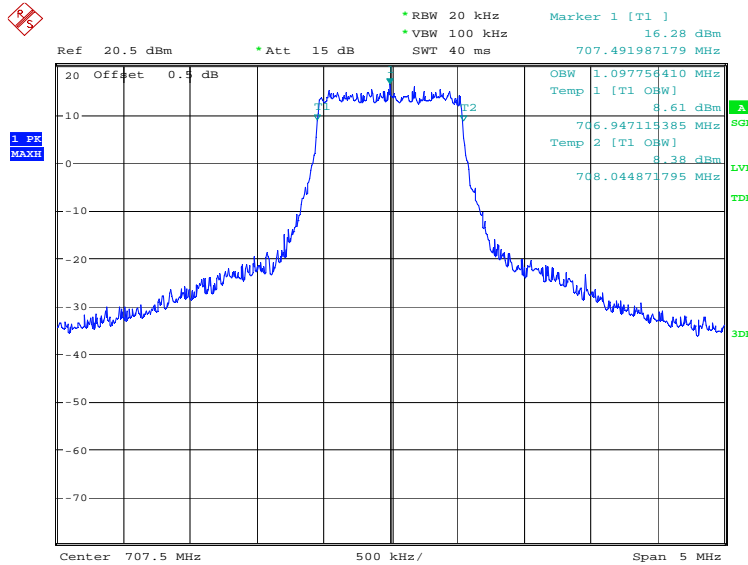
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	1089.74	1097.76

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



Date: 17.MAY.2022 13:00:39

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

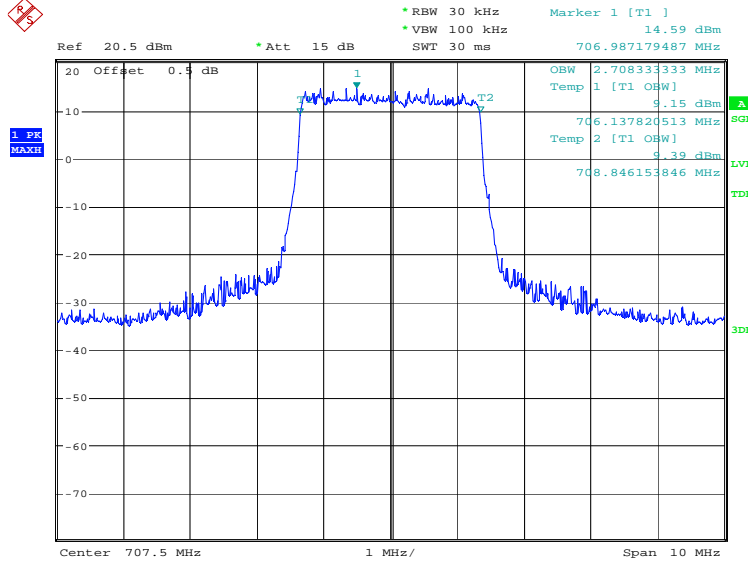


Date: 17.MAY.2022 13:01:19

LTE band 12, 3MHz (99%)

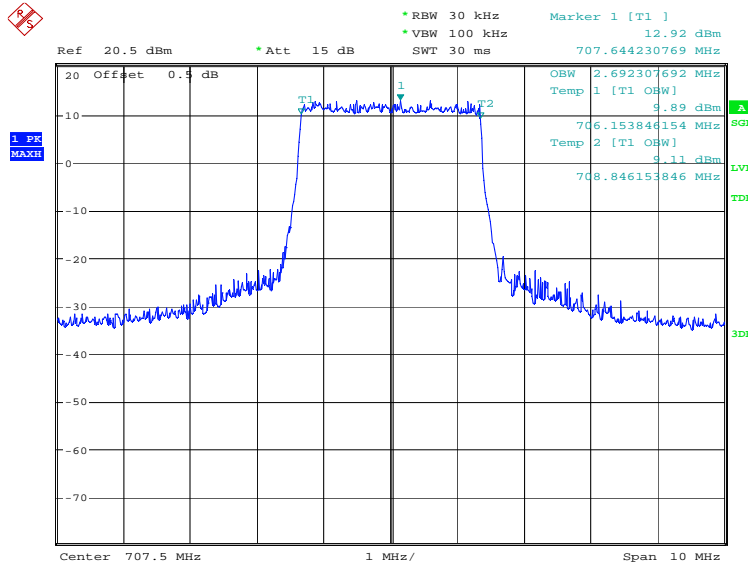
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	2708.33	2692.31

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



Date: 17.MAY.2022 13:02:03

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

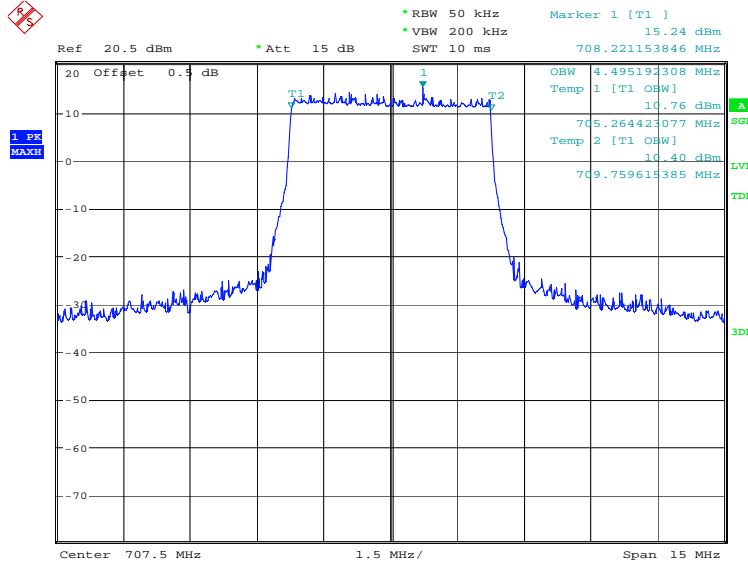


Date: 17.MAY.2022 13:02:42

LTE band 12, 5MHz (99%)

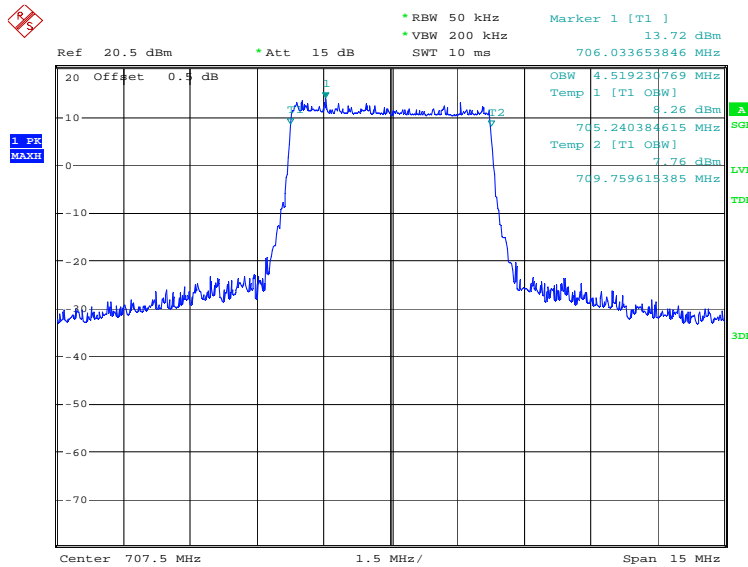
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	4495.19	4519.23

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



Date: 17.MAY.2022 13:03:26

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

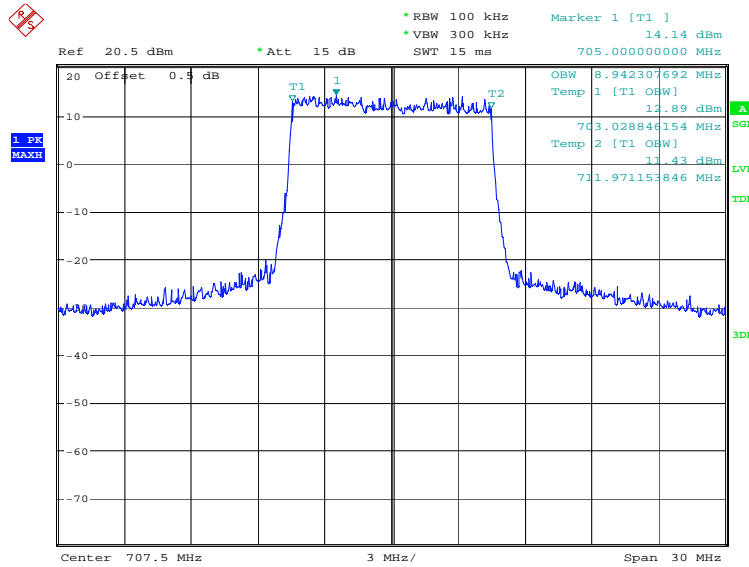


Date: 17.MAY.2022 13:04:06

LTE band 12, 10MHz (99%)

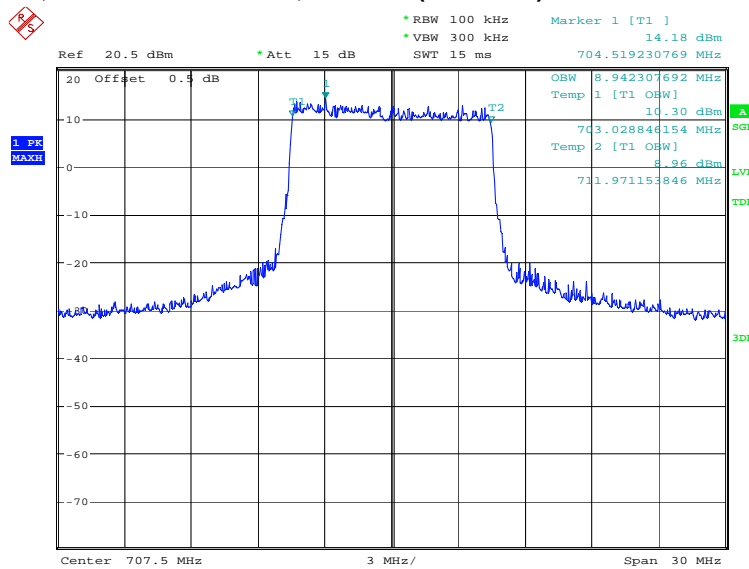
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	8942.31	8942.31

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



Date: 17.MAY.2022 13:04:51

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

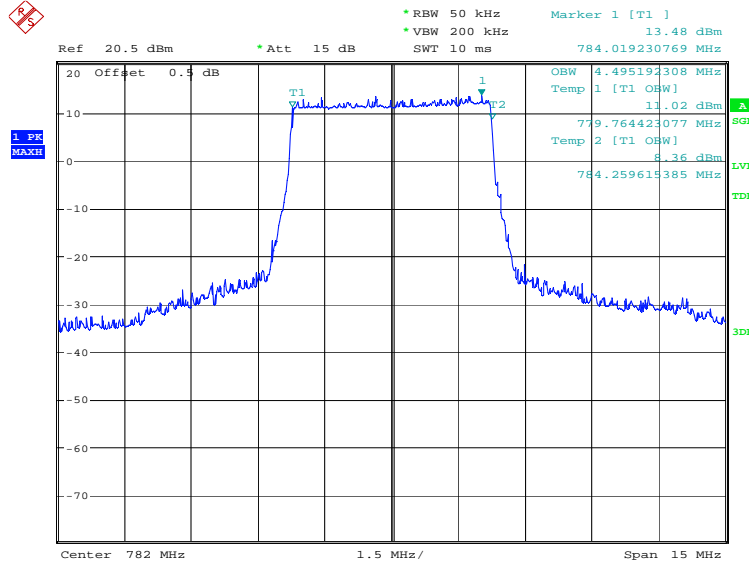


Date: 17.MAY.2022 13:05:30

LTE band 13, 5MHz (99%)

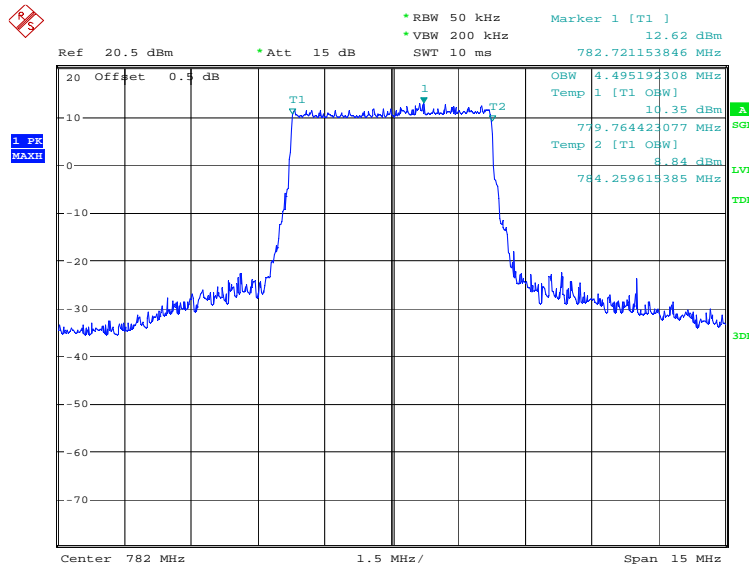
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 17.MAY.2022 13:06:19

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

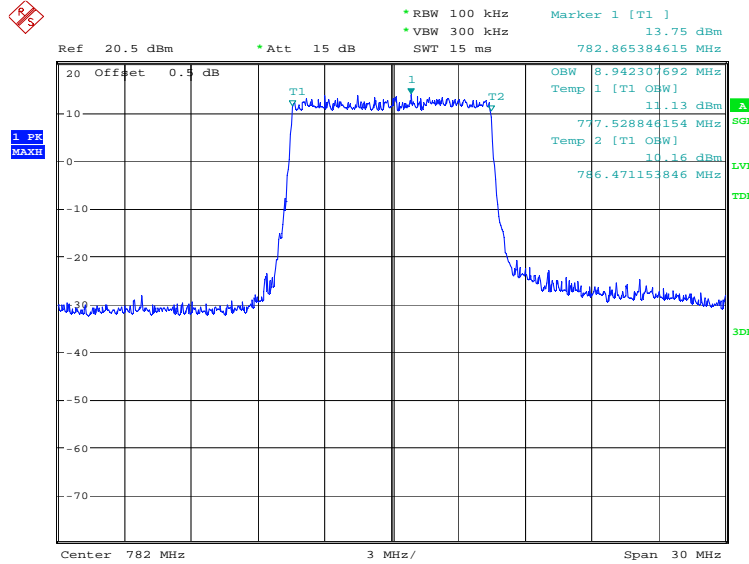


Date: 17.MAY.2022 13:06:58

LTE band 13, 10MHz (99%)

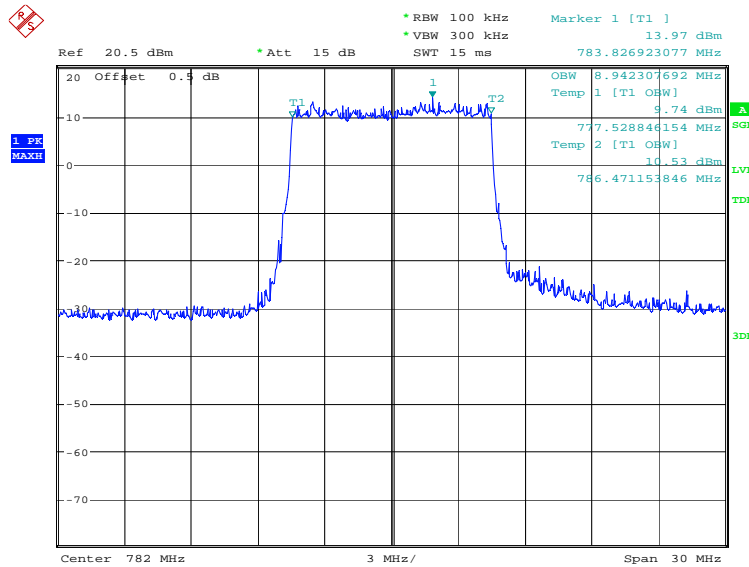
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 17.MAY.2022 13:07:43

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

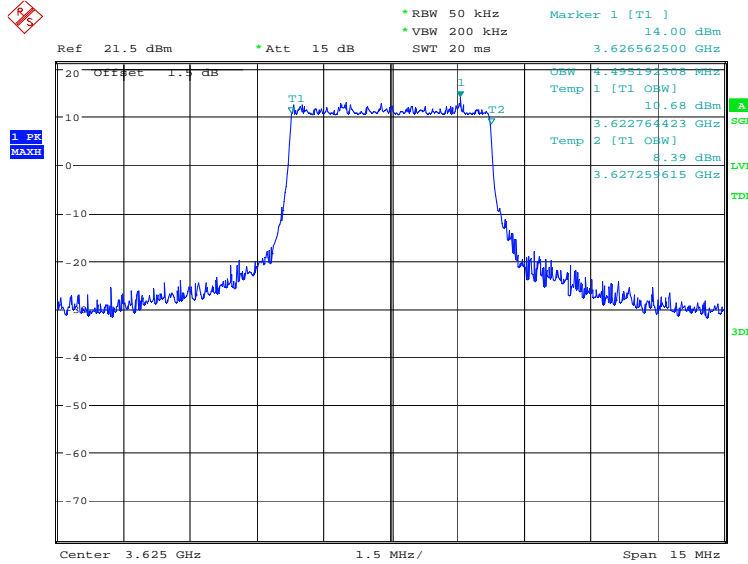


Date: 17.MAY.2022 13:08:23

LTE band 48, 5MHz (99%)

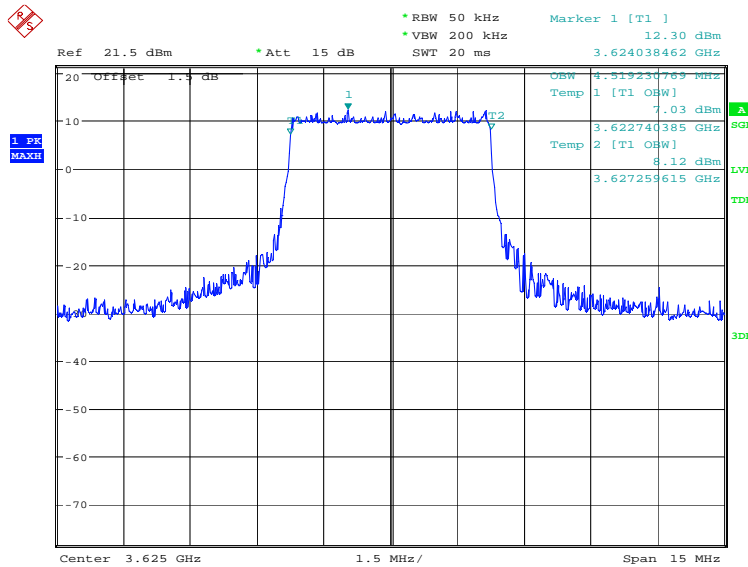
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
3625.0	QPSK	16QAM
	4495.19	4519.23

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



Date: 17.MAY.2022 16:26:12

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

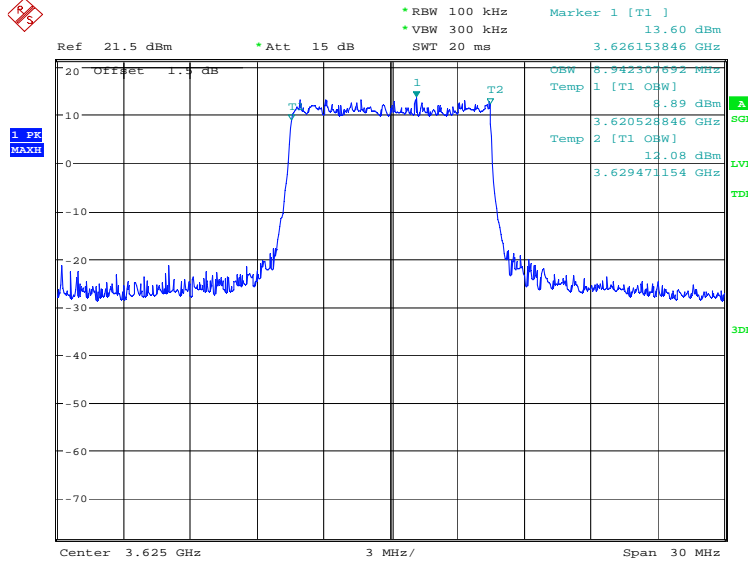


Date: 17.MAY.2022 16:26:50

LTE band 48, 10MHz (99%)

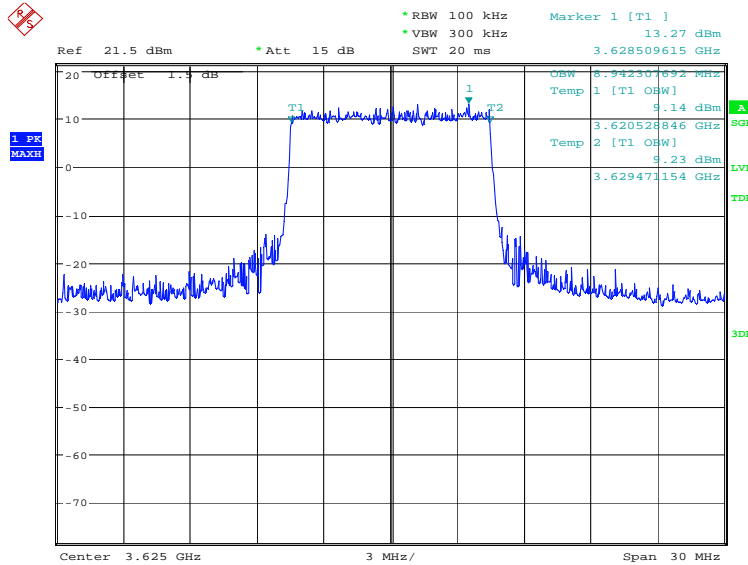
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
3625.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 17.MAY.2022 16:27:33

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

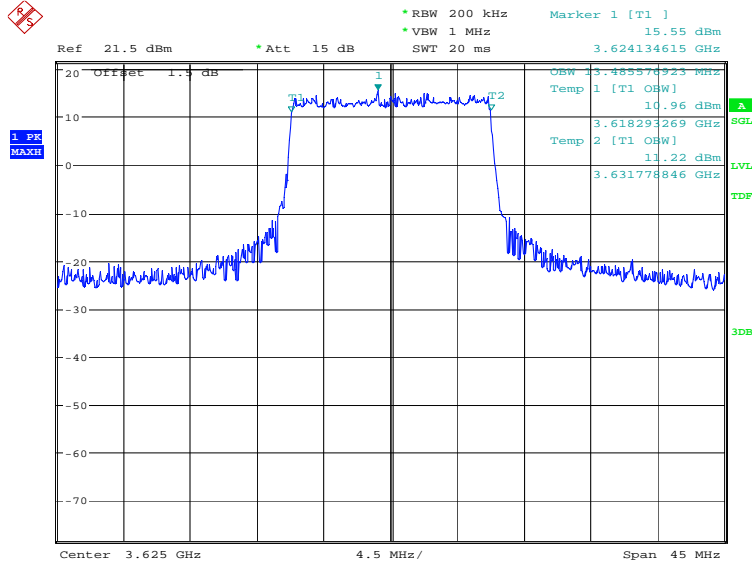


Date: 17.MAY.2022 16:28:11

LTE band 48, 15MHz (99%)

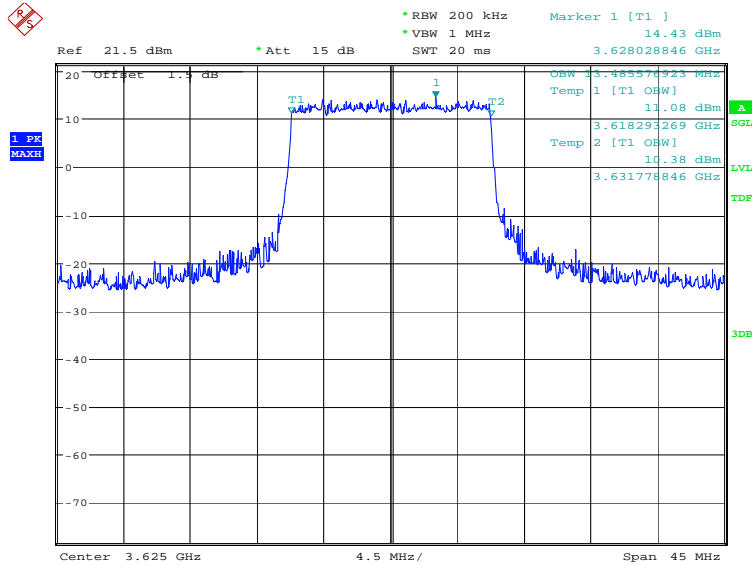
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
3625.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 17.MAY.2022 16:28:54

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

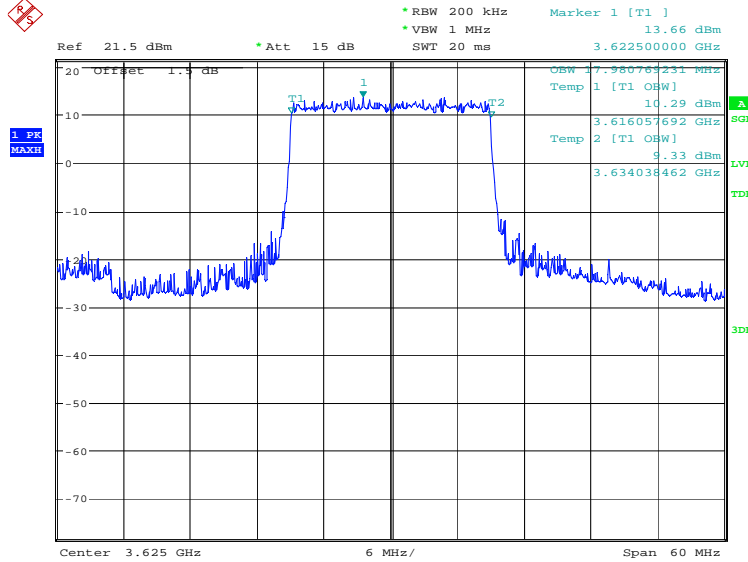


Date: 17.MAY.2022 16:29:33

LTE band 48, 20MHz (99%)

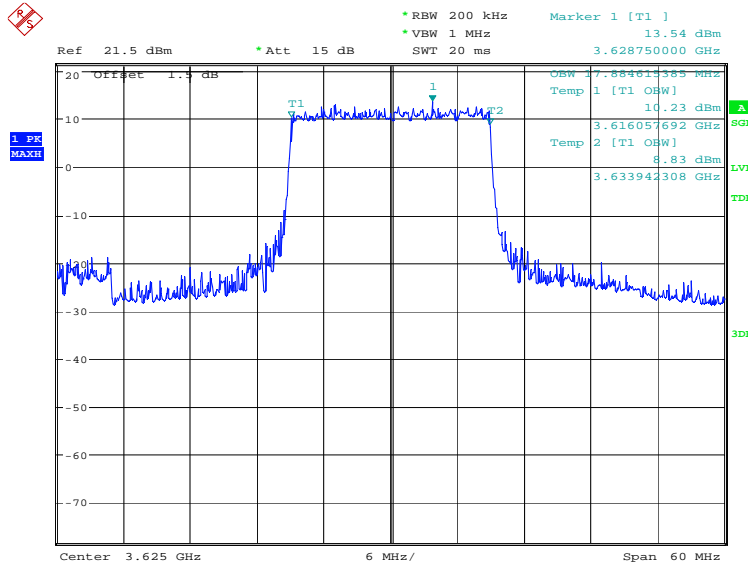
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
3625.0	QPSK	16QAM
	17980.77	17884.62

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



Date: 17.MAY.2022 16:30:16

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

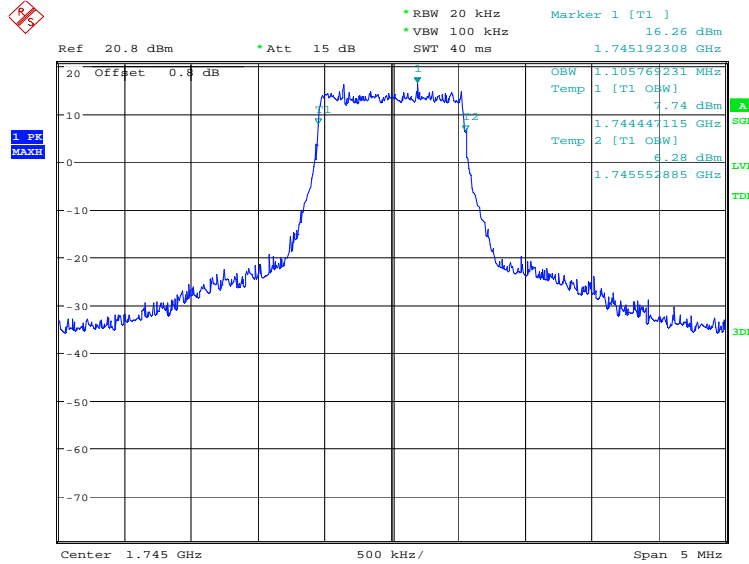


Date: 17.MAY.2022 16:30:54

LTE band 66, 1.4MHz (99%)

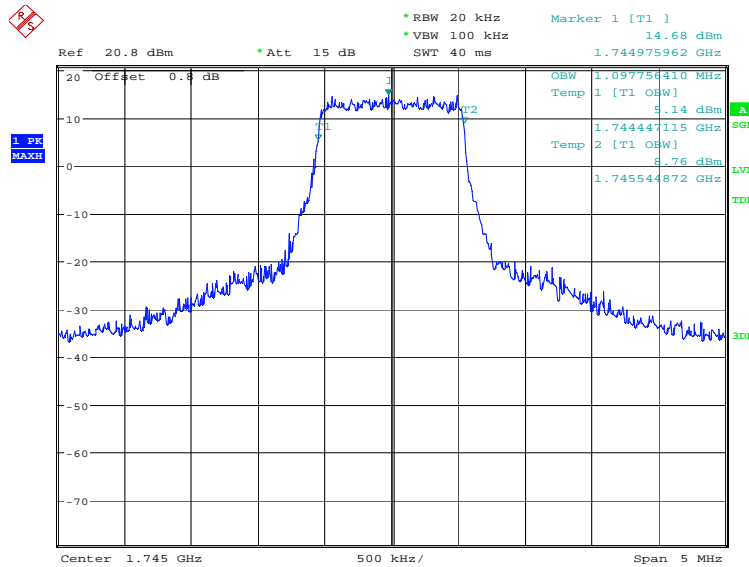
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	1105.77	1097.76

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



Date: 17.MAY.2022 13:09:12

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

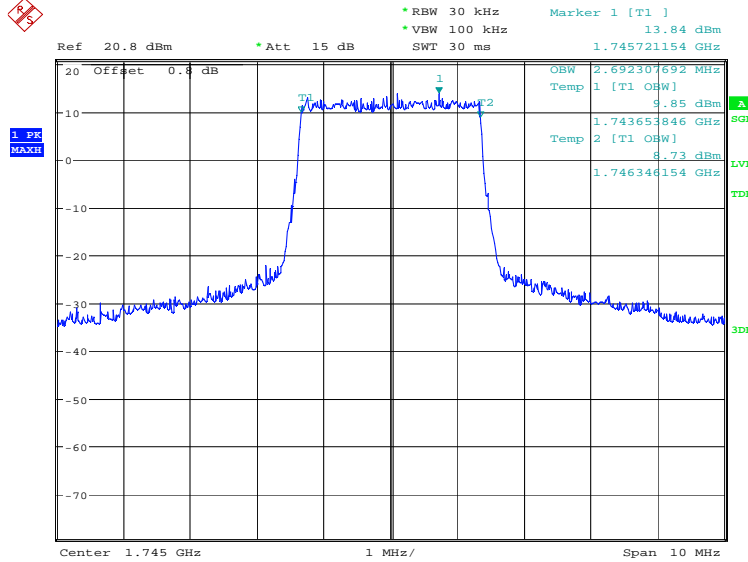


Date: 17.MAY.2022 13:09:51

LTE band 66, 3MHz (99%)

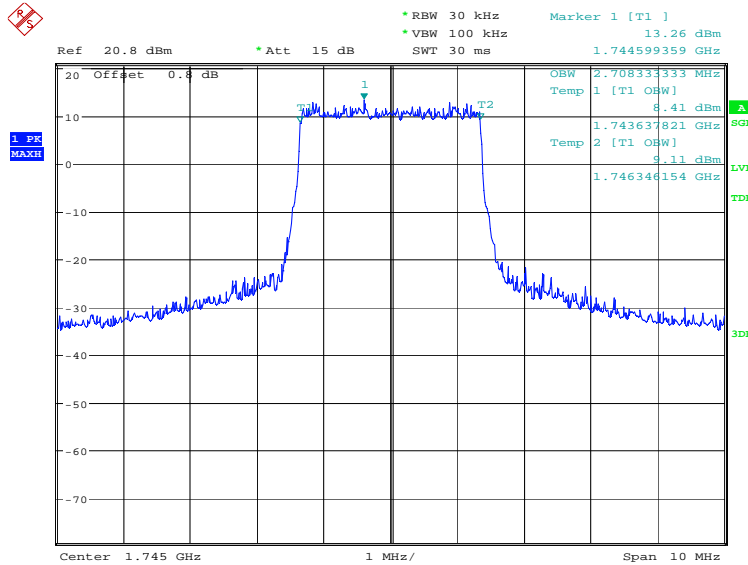
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	2692.31	2708.33

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



Date: 17.MAY.2022 13:10:36

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

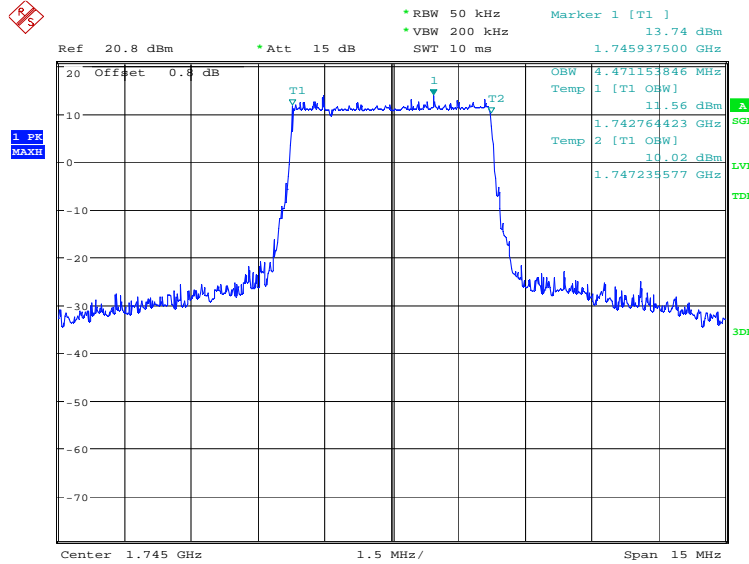


Date: 17.MAY.2022 13:11:15

LTE band 66, 5MHz (99%)

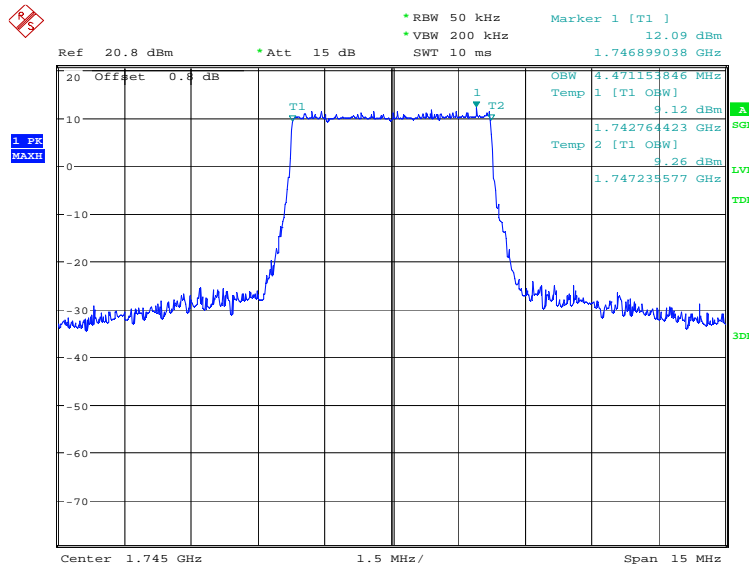
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	4471.15	4471.15

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



Date: 17.MAY.2022 13:12:00

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

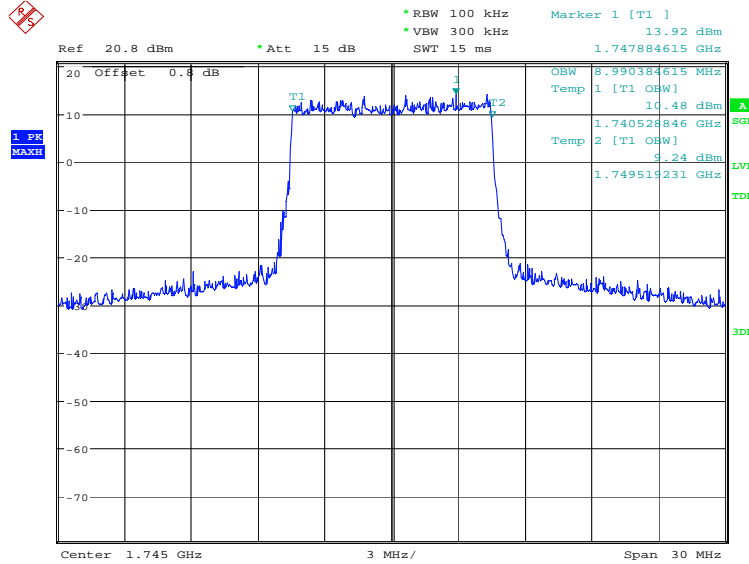


Date: 17.MAY.2022 13:12:39

LTE band 66, 10MHz (99%)

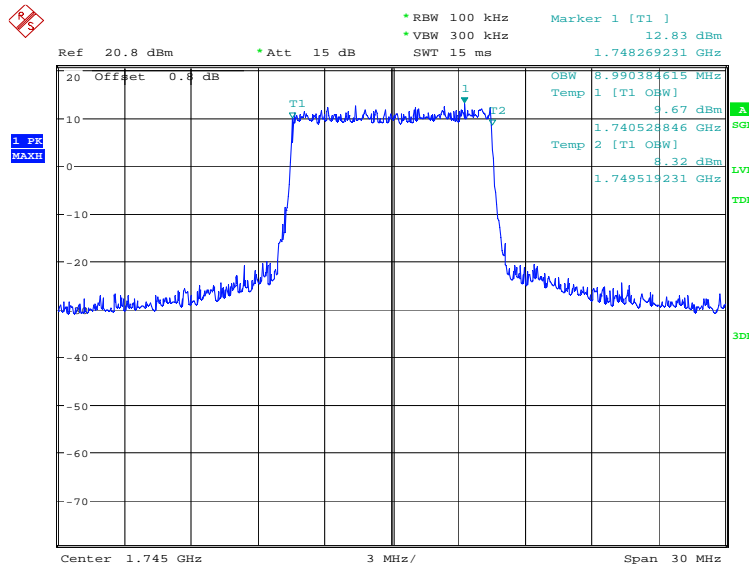
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	8990.38	8990.38

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



Date: 17.MAY.2022 13:13:23

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

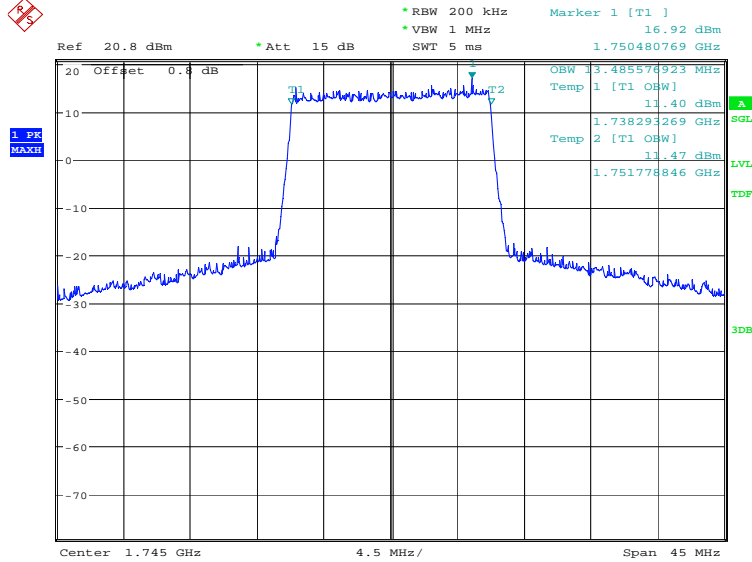


Date: 17.MAY.2022 13:14:03

LTE band 66, 15MHz (99%)

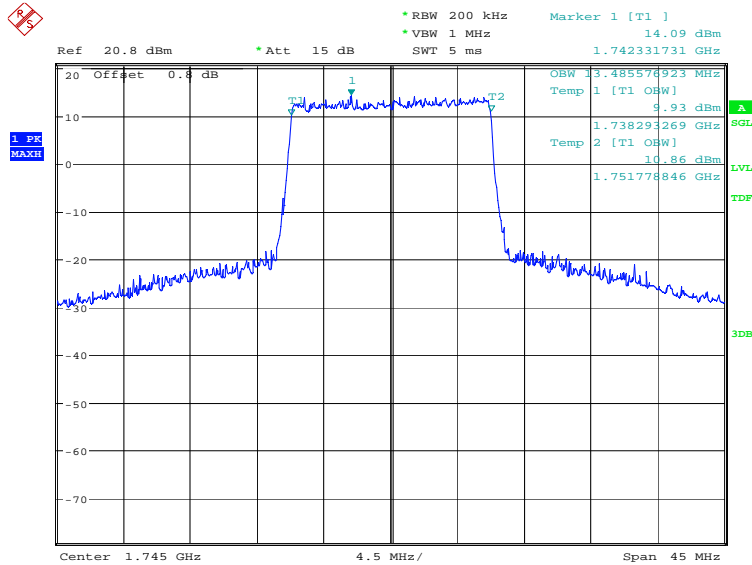
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 17.MAY.2022 13:14:48

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

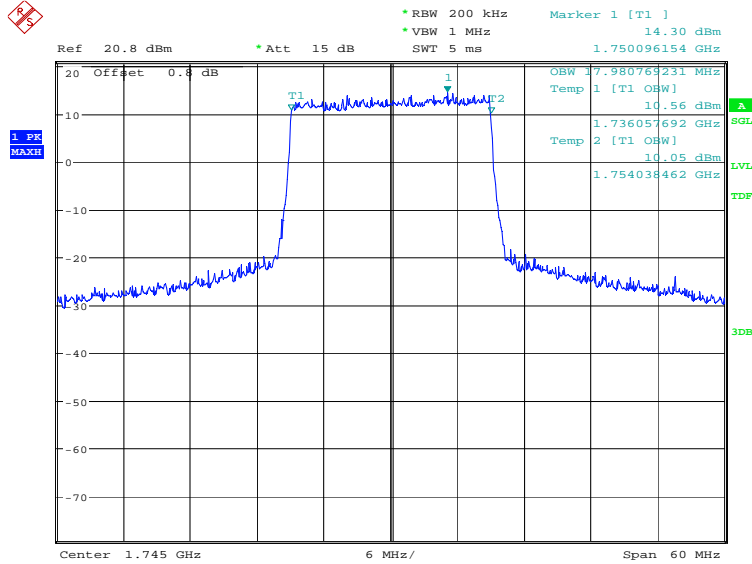


Date: 17.MAY.2022 13:15:27

LTE band 66, 20MHz (99%)

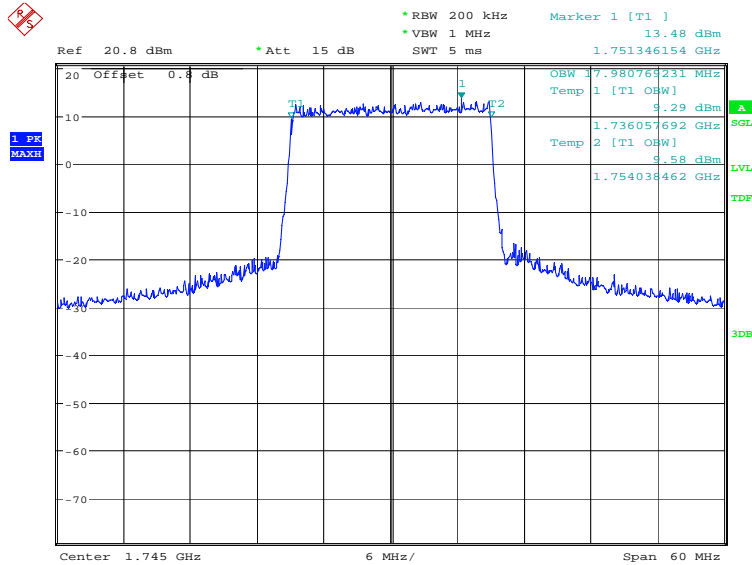
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	17980.77	17980.77

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



Date: 17.MAY.2022 13:16:11

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

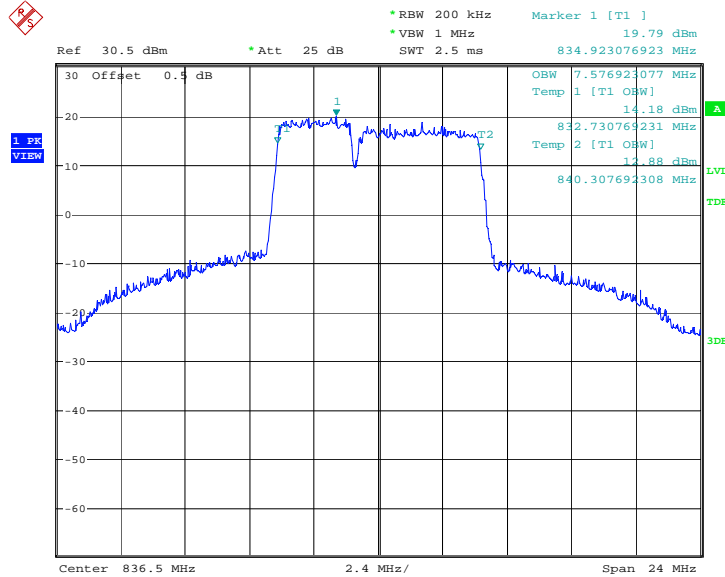


Date: 17.MAY.2022 13:16:51

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

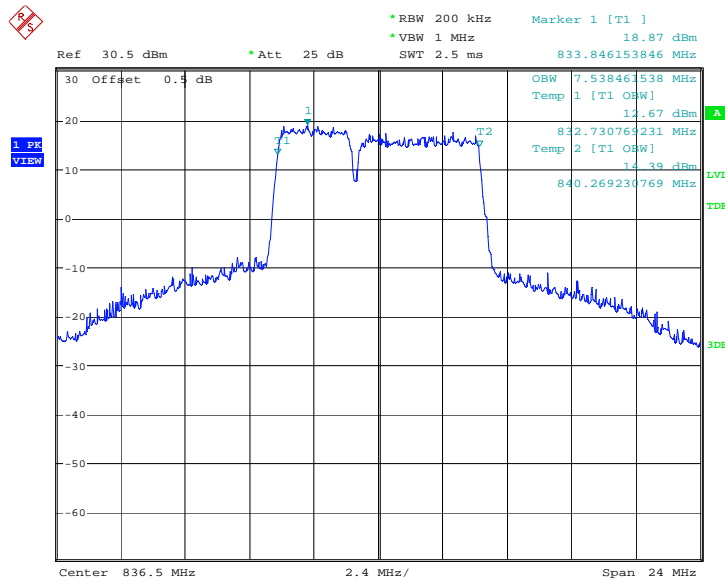
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
834.1	7.577	7.538

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



Date: 17.MAY.2022 23:23:55

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

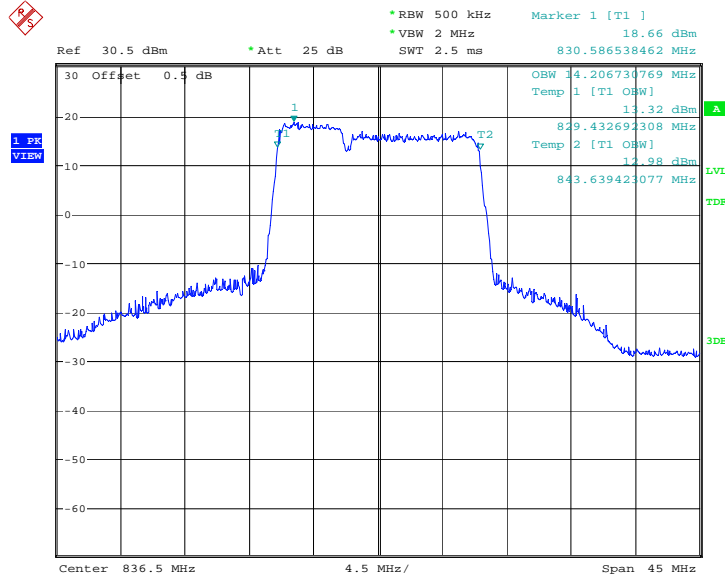


Date: 17.MAY.2022 23:24:17

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

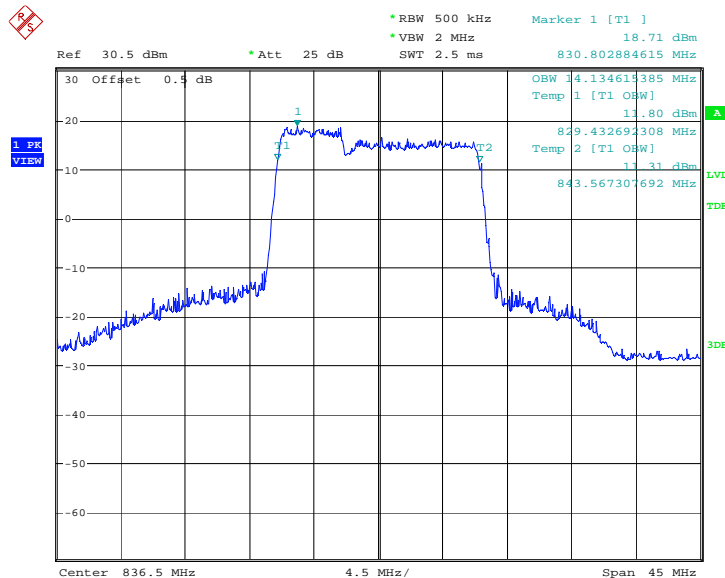
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
831.8	14.207	14.135

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



Date: 17.MAY.2022 23:26:47

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

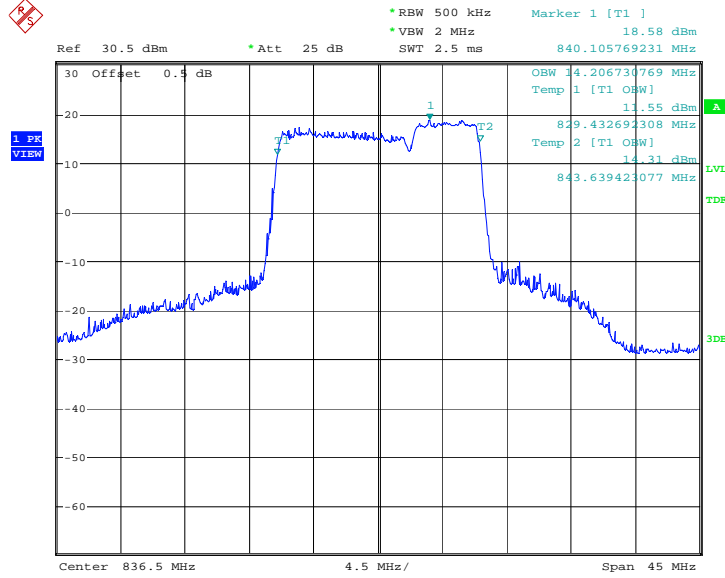


Date: 17.MAY.2022 23:27:09

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

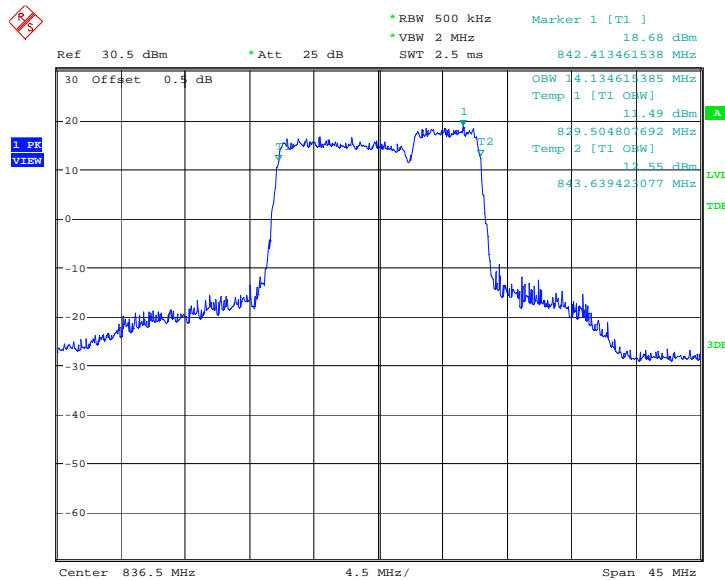
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
834	14.207	14.135

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



Date: 17.MAY.2022 23:28:14

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

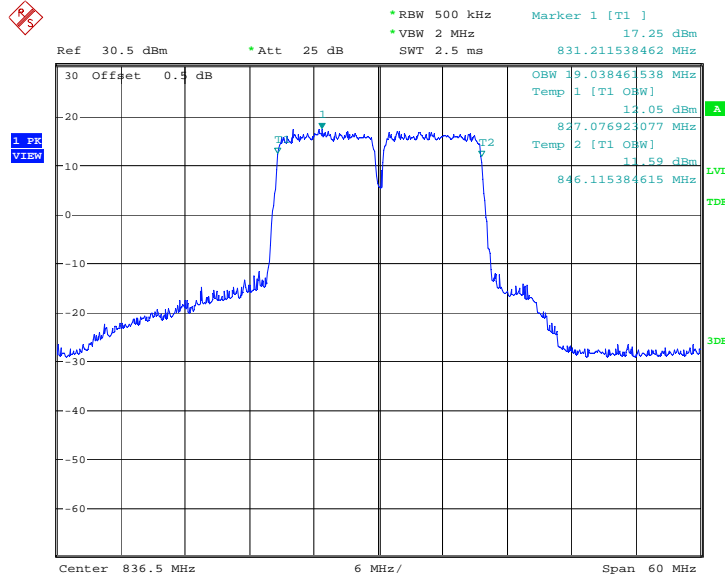


Date: 17.MAY.2022 23:28:36

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

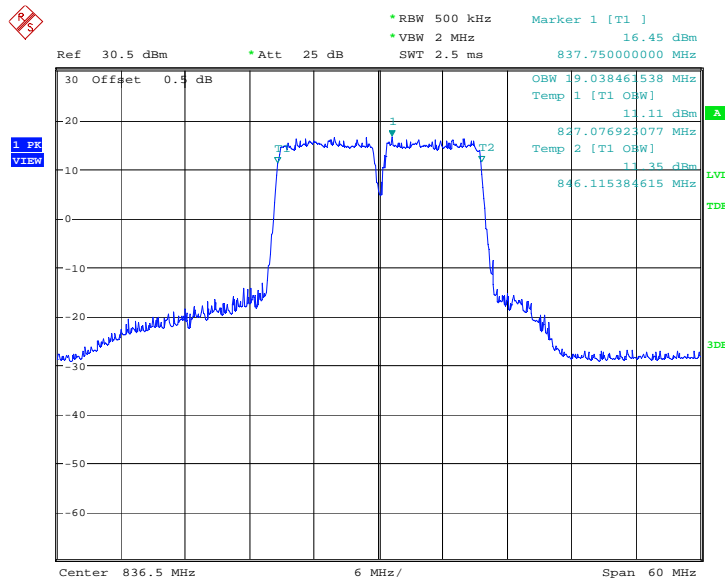
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
831.6	19.038	19.038

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



Date: 17.MAY.2022 23:29:39

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

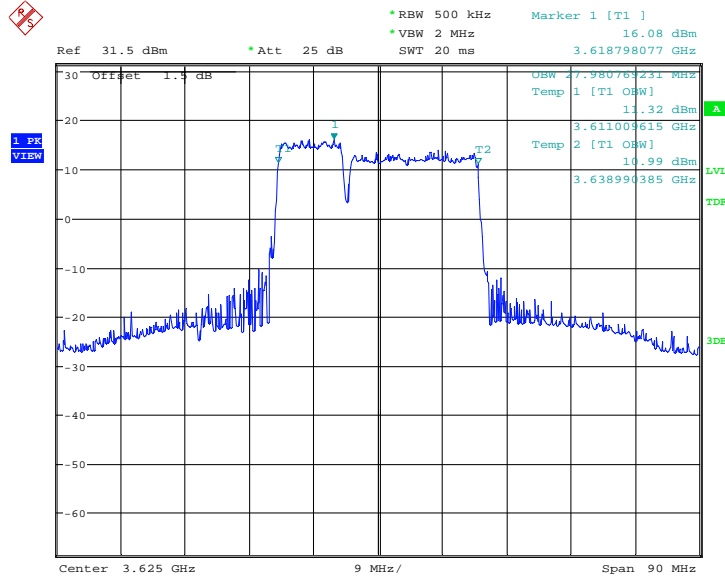


Date: 17.MAY.2022 23:30:01

LTE CA Band 48C, 10MHz+20MHz (99%)

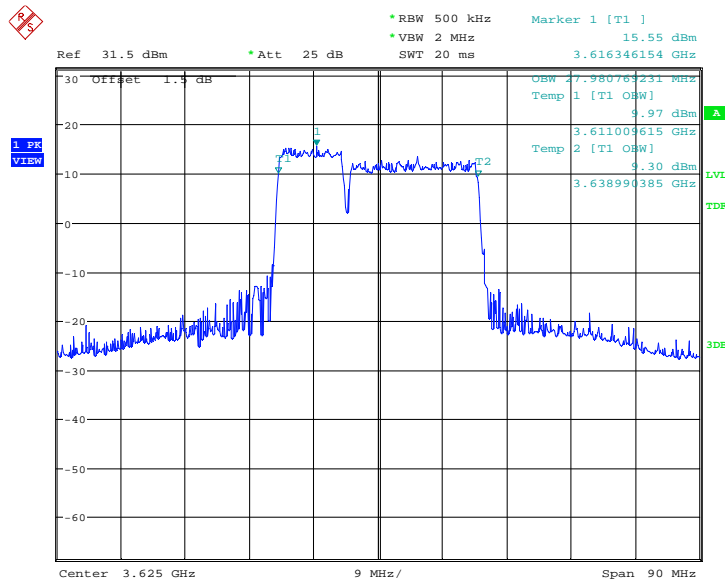
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3615.6	27.981	27.981

LTE CA Band 48C, 10MHz+20MHz Bandwidth, QPSK (99% BW)



Date: 18.MAY.2022 21:01:21

LTE CA Band 48C, 10MHz+20MHz Bandwidth, 16QAM (99% BW)

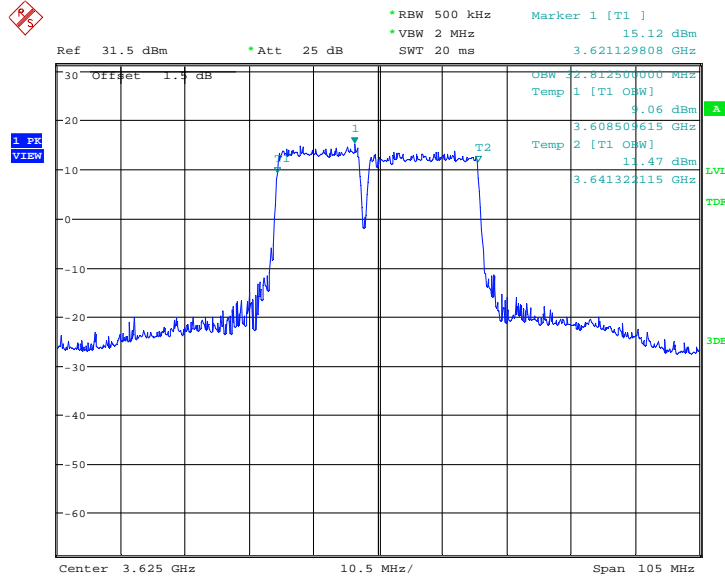


Date: 18.MAY.2022 21:01:43

LTE CA Band 48C, 15MHz+20MHz (99%)

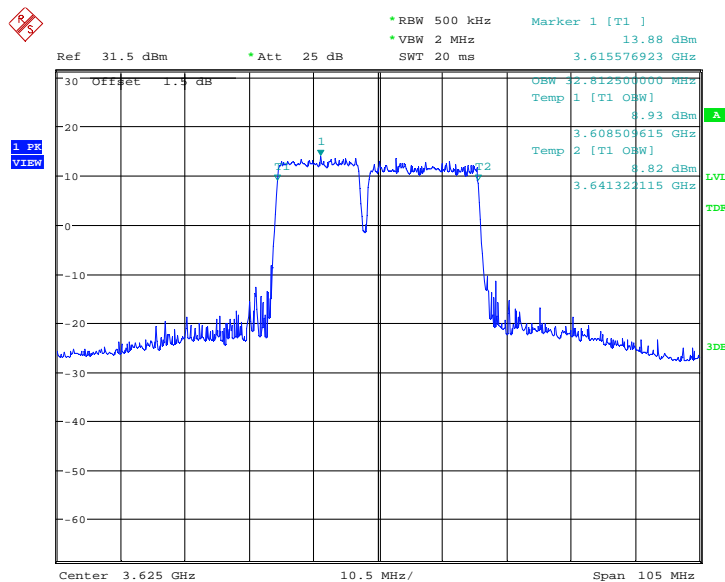
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3615.3	32.812	32.812

LTE CA Band 48C, 15MHz+20MHz Bandwidth, QPSK (99% BW)



Date: 18.MAY.2022 21:02:44

LTE CA Band 48C, 15MHz+20MHz Bandwidth, 16QAM (99% BW)

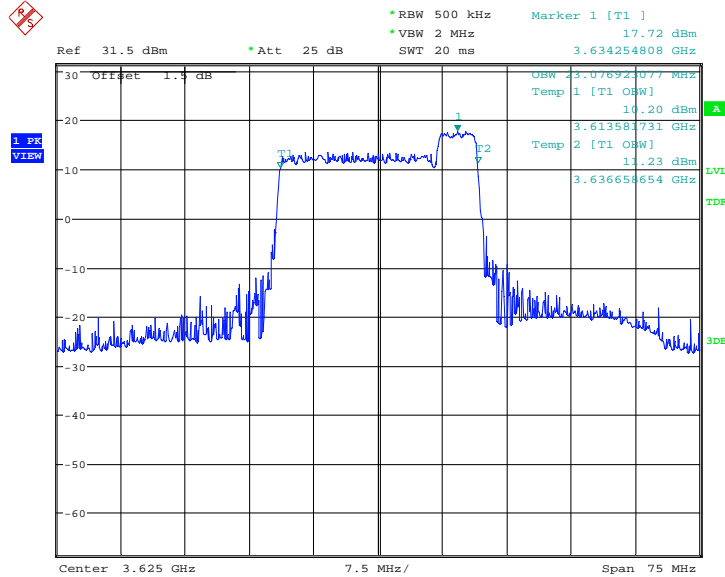


Date: 18.MAY.2022 21:03:06

LTE CA Band 48C, 20MHz+5MHz (99%)

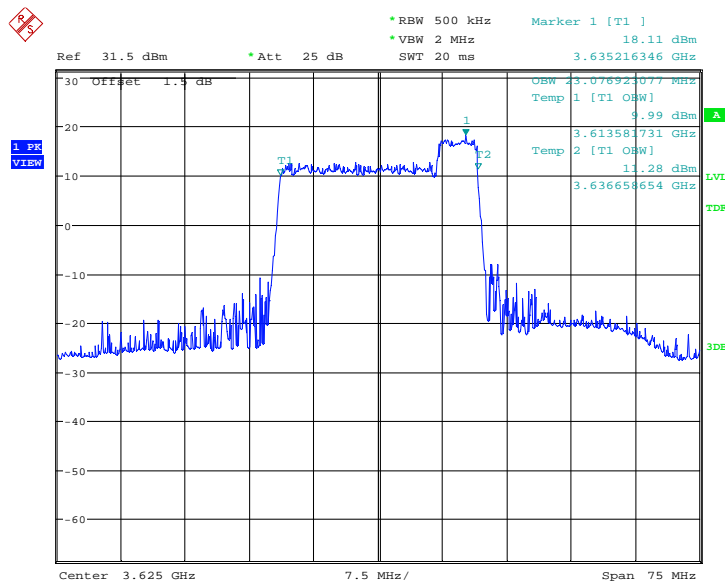
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3622.5	23.077	23.077

LTE CA Band 48C, 20MHz+5MHz Bandwidth, QPSK (99% BW)



Date: 18.MAY.2022 21:04:11

LTE CA Band 48C, 20MHz+5MHz Bandwidth, 16QAM (99% BW)

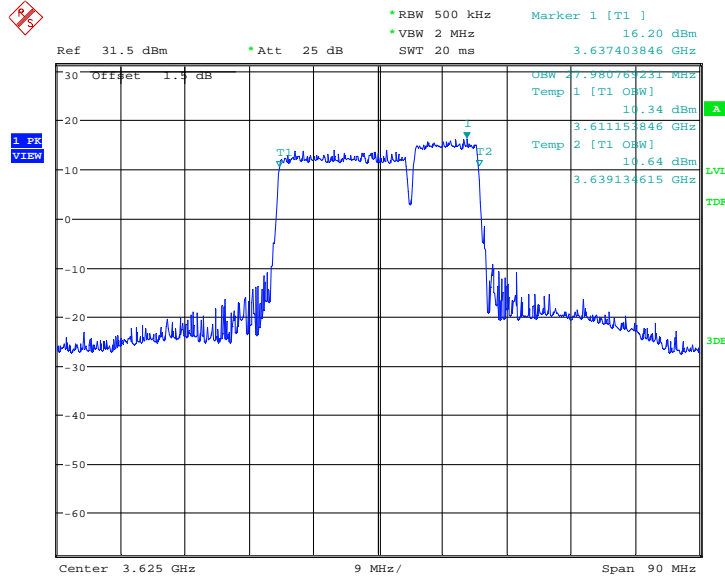


Date: 18.MAY.2022 21:04:33

LTE CA Band 48C, 20MHz+10MHz (99%)

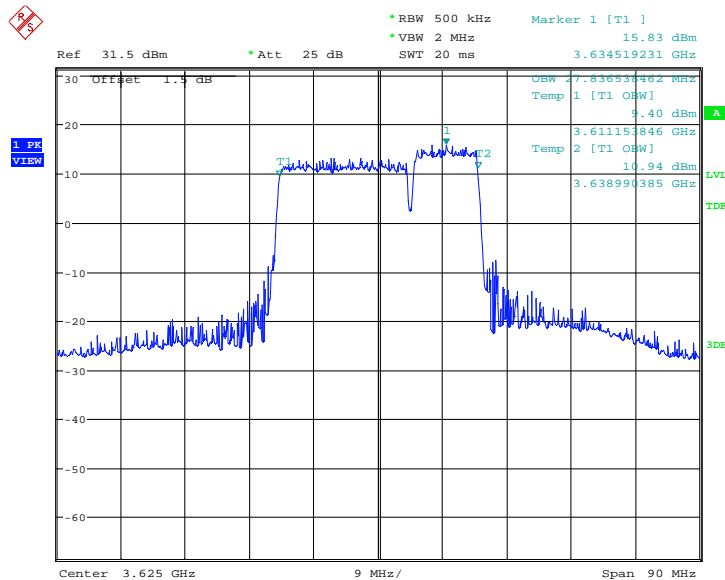
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3620.1	27.981	27.837

LTE CA Band 48C, 20MHz+10MHz Bandwidth, QPSK (99% BW)



Date: 18.MAY.2022 21:05:36

LTE CA Band 48C, 20MHz+10MHz Bandwidth, 16QAM (99% BW)

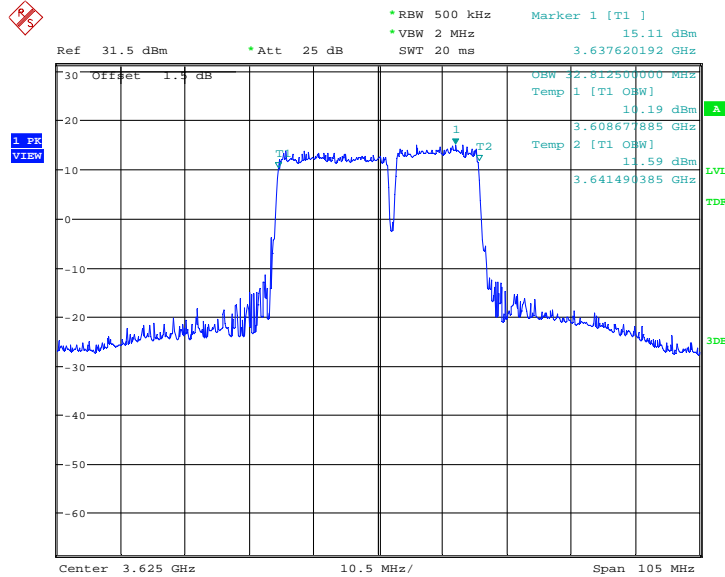


Date: 18.MAY.2022 21:05:58

LTE CA Band 48C, 20MHz+15MHz (99%)

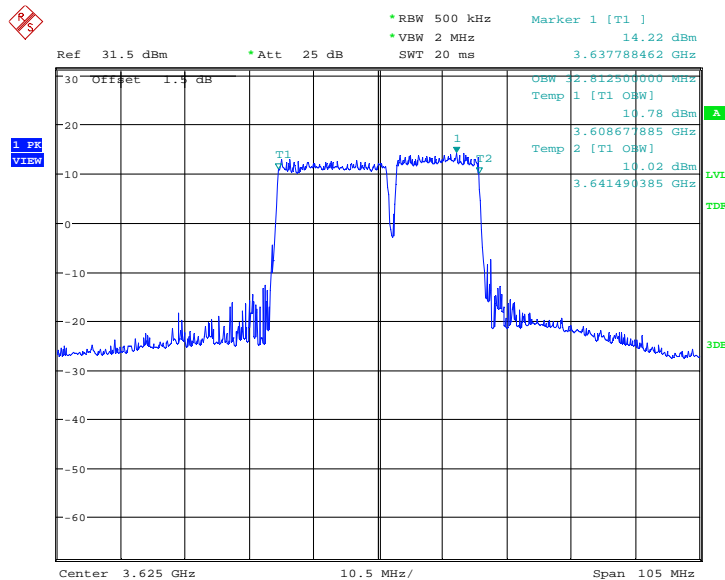
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3617.6	32.812	32.812

LTE CA Band 48C, 20MHz+15MHz Bandwidth, QPSK (99% BW)



Date: 18.MAY.2022 21:07:01

LTE CA Band 48C, 20MHz+15MHz Bandwidth, 16QAM (99% BW)

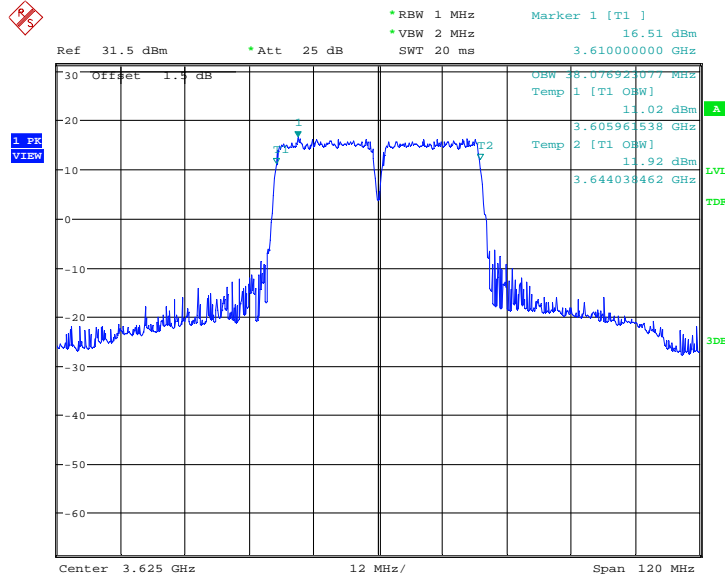


Date: 18.MAY.2022 21:07:23

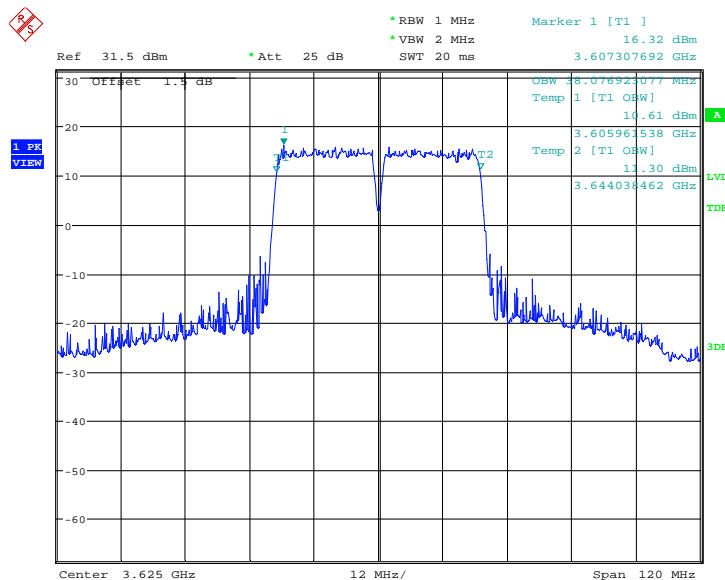
LTE CA Band 48C, 20MHz+20MHz (99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3615.1	38.077	38.077

LTE CA Band 48C, 20MHz+20MHz Bandwidth, QPSK (99% BW)



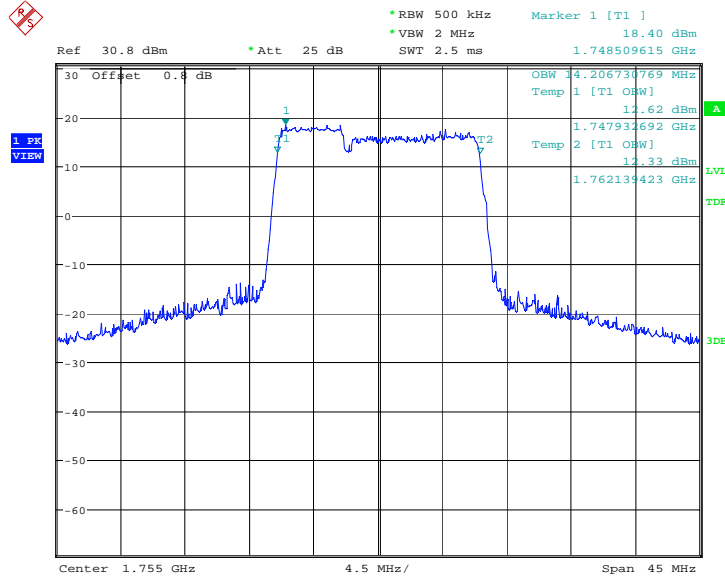
LTE CA Band 48C, 20MHz+20MHz Bandwidth, 16QAM (99% BW)



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

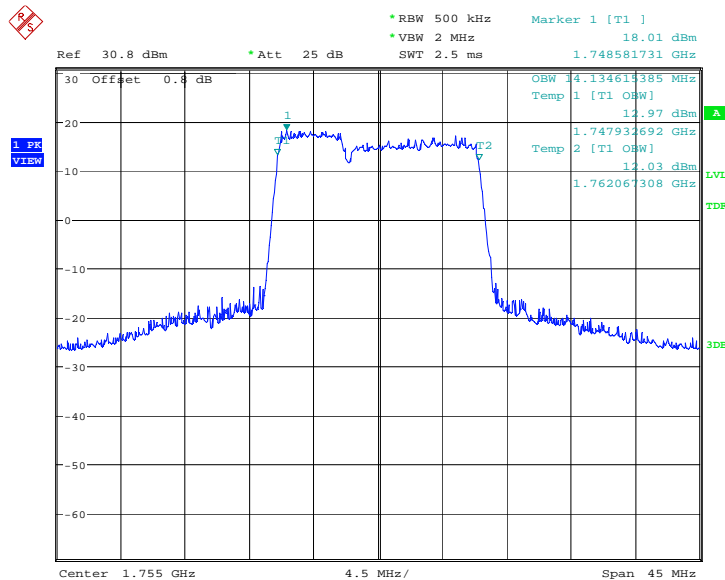
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1750.3	14.207	14.135

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



Date: 17.MAY.2022 23:32:40

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

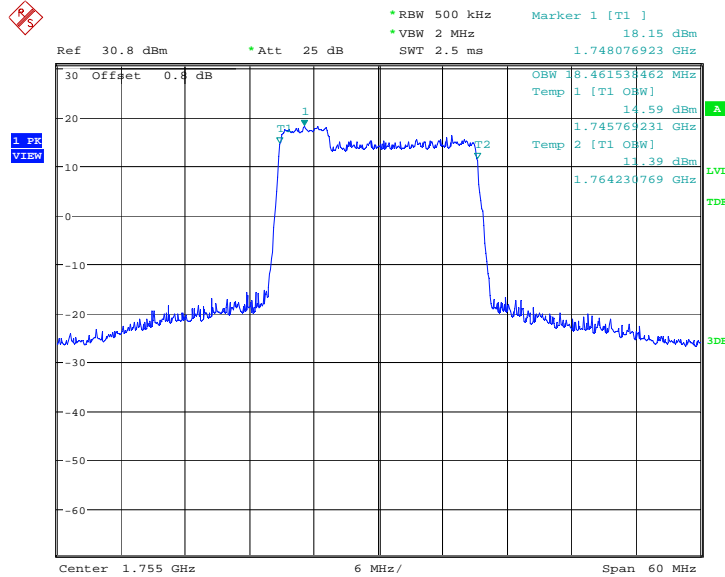


Date: 17.MAY.2022 23:33:02

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

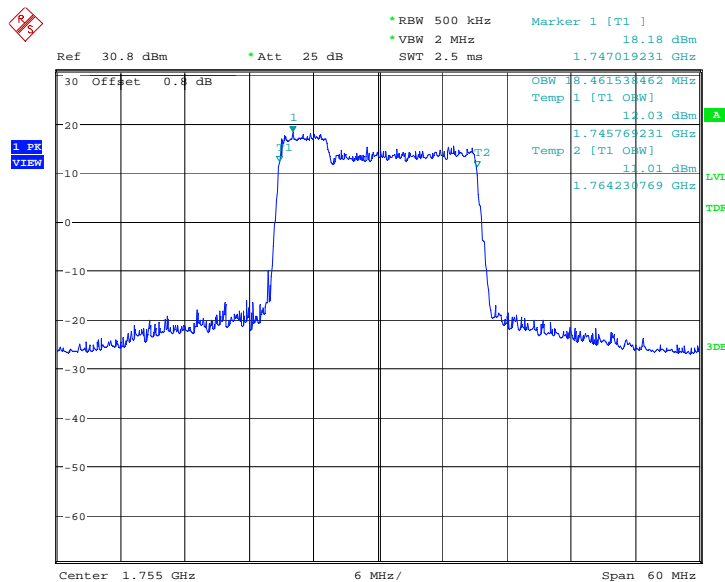
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1748.1	18.462	18.462

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



Date: 17.MAY.2022 23:34:06

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

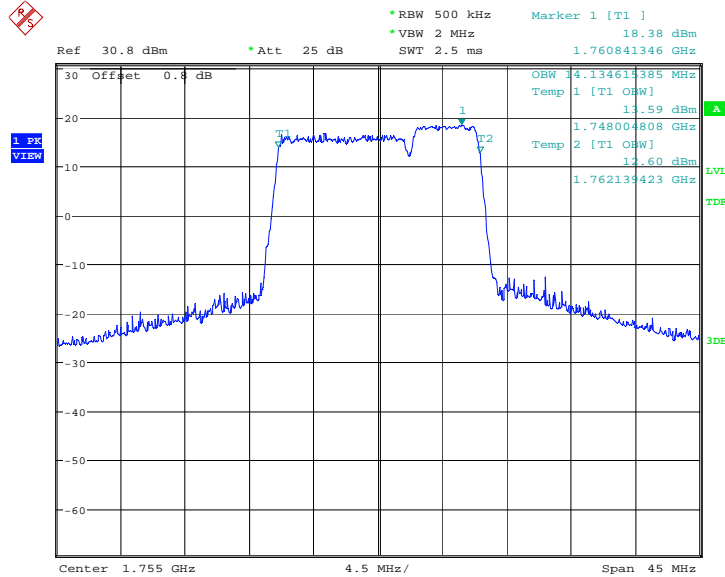


Date: 17.MAY.2022 23:34:28

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

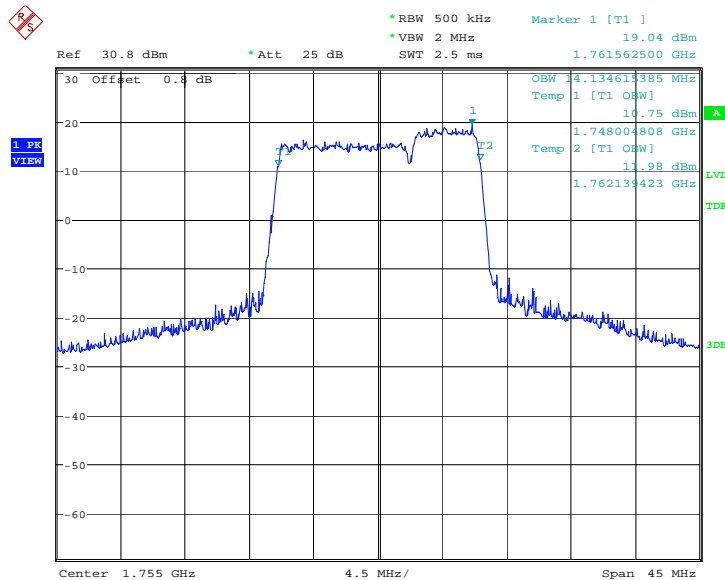
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1752.5	14.135	14.135

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



Date: 17.MAY.2022 23:35:32

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

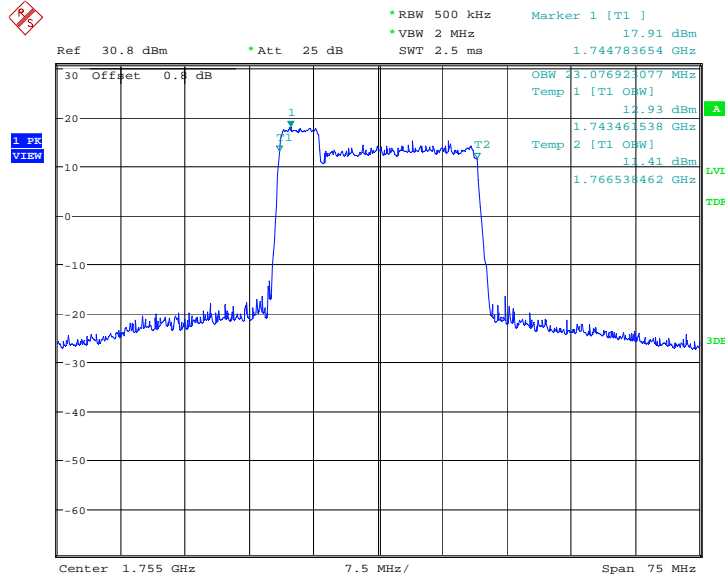


Date: 17.MAY.2022 23:35:54

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

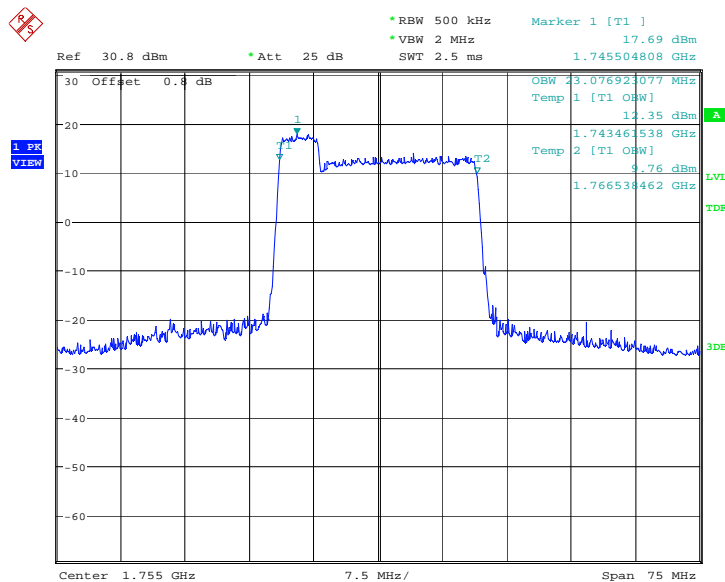
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1745.8	23.077	23.077

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



Date: 17.MAY.2022 23:39:51

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

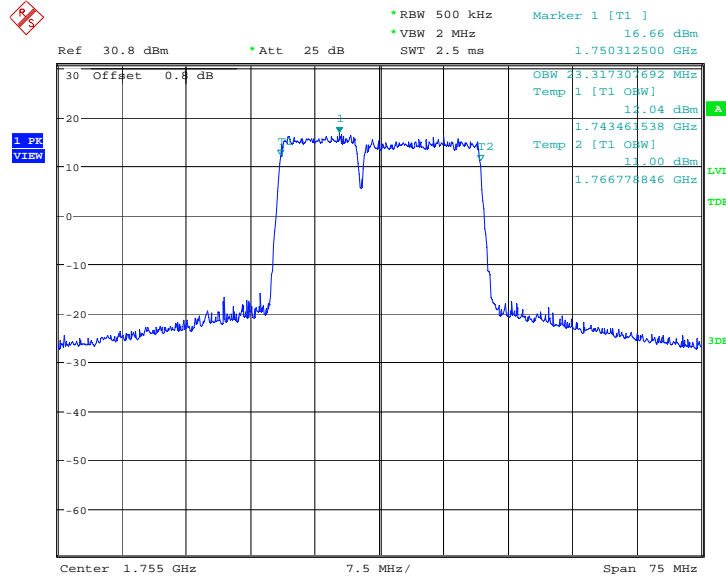


Date: 17.MAY.2022 23:40:16

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

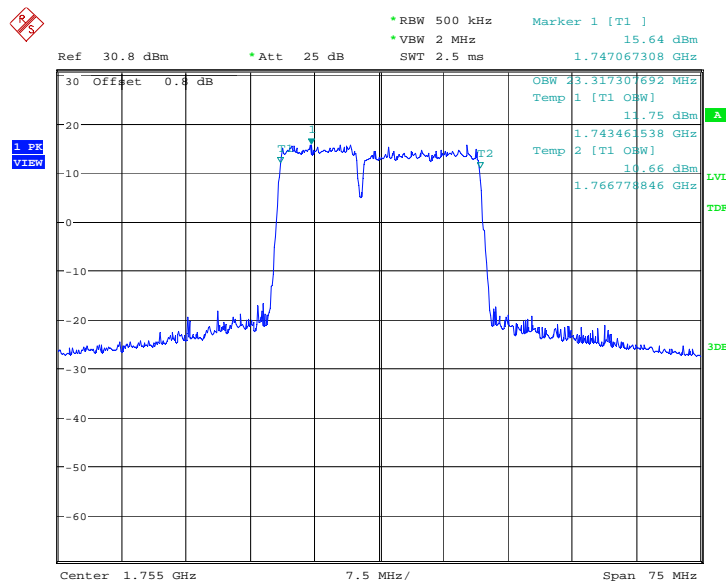
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1747.9	23.317	23.317

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



Date: 17.MAY.2022 23:41:21

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

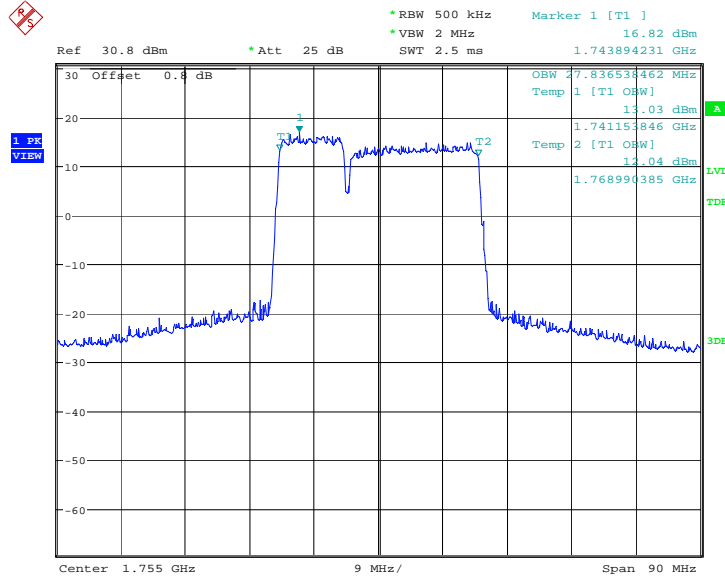


Date: 17.MAY.2022 23:41:43

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

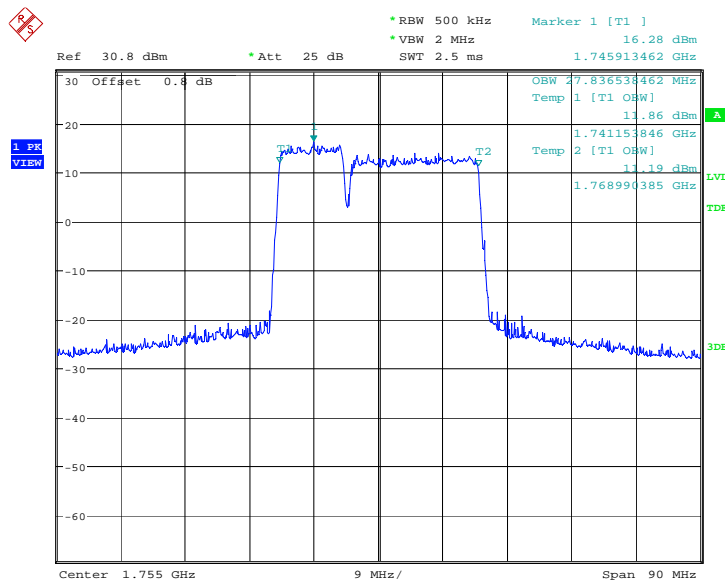
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1745.6	27.837	27.837

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



Date: 17.MAY.2022 23:42:47

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

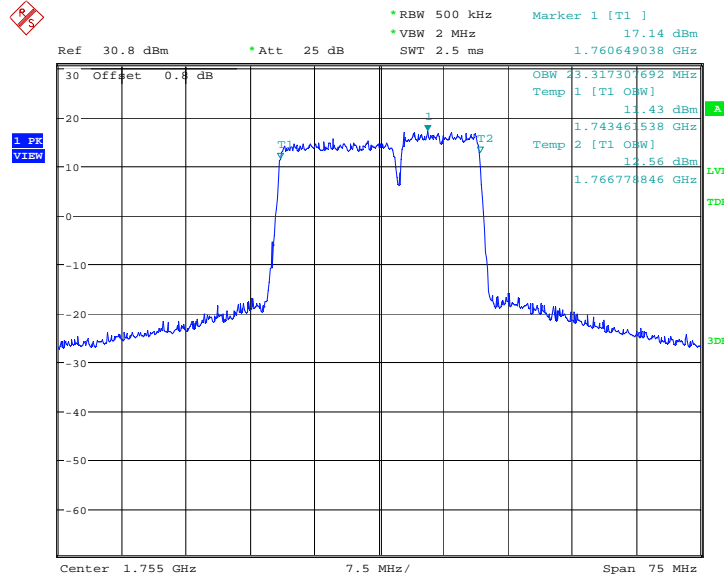


Date: 17.MAY.2022 23:43:09

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

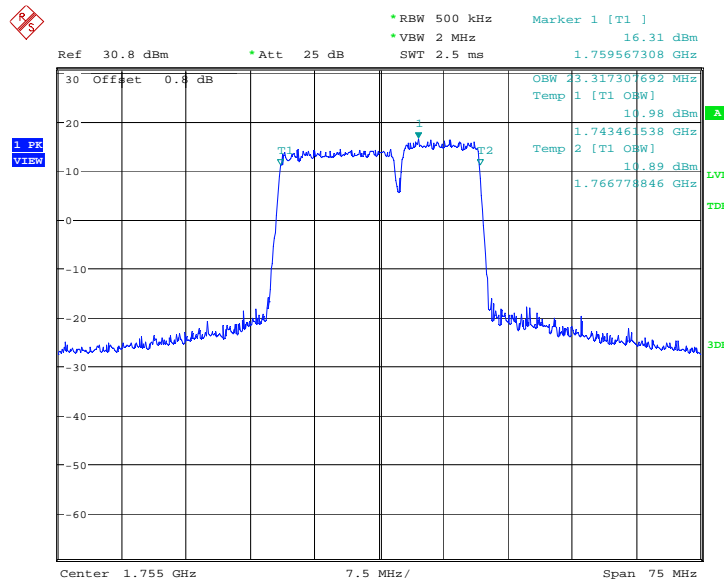
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1750.1	23.317	23.317

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



Date: 17.MAY.2022 23:44:13

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

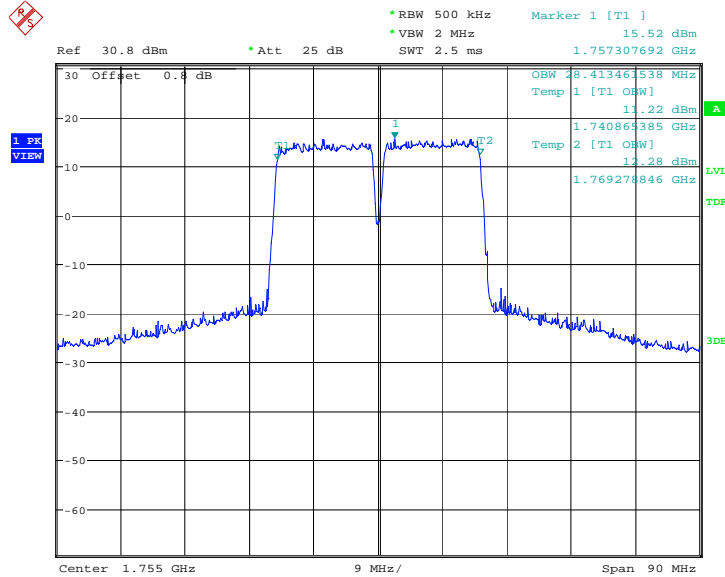


Date: 17.MAY.2022 23:44:35

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

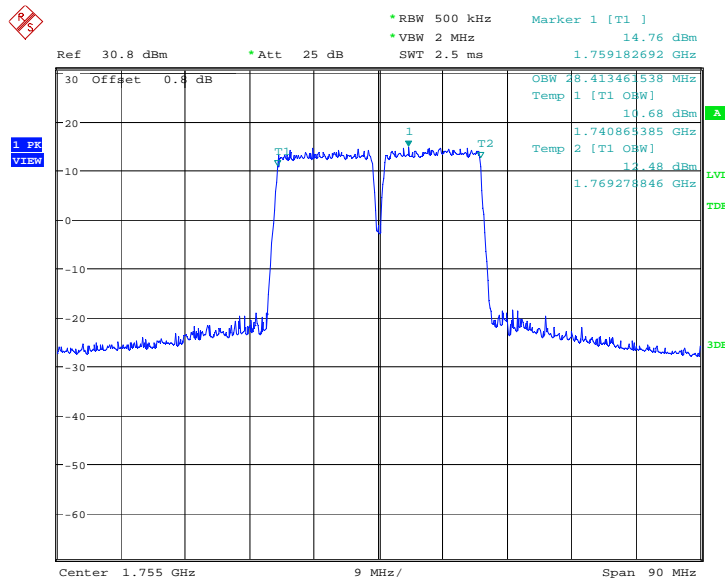
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1747.5	28.413	28.413

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



Date: 17.MAY.2022 23:45:39

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

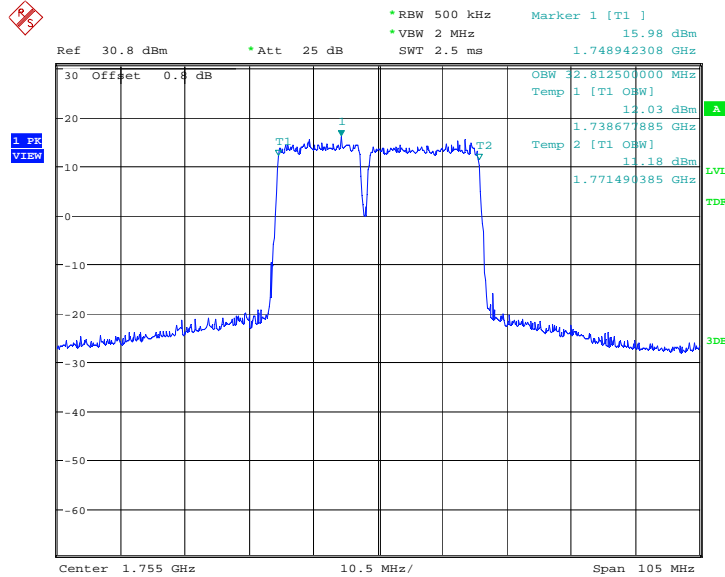


Date: 17.MAY.2022 23:46:01

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

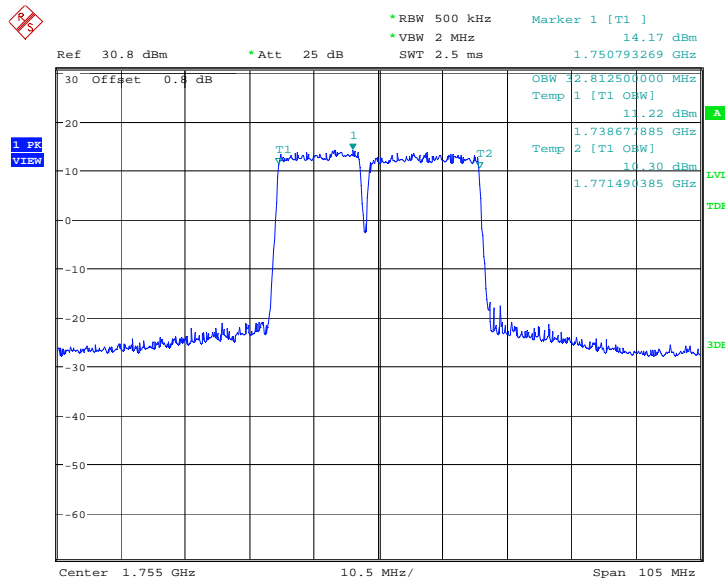
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1745.3	32.812	32.812

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



Date: 17.MAY.2022 23:47:04

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

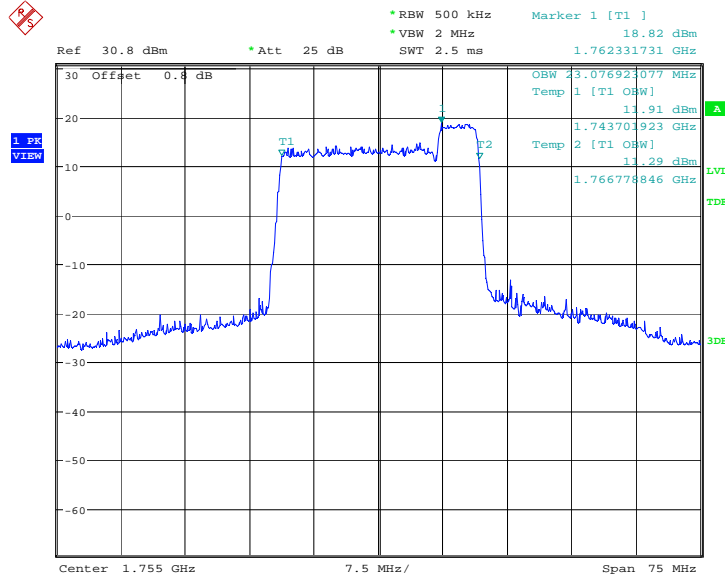


Date: 17.MAY.2022 23:47:30

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

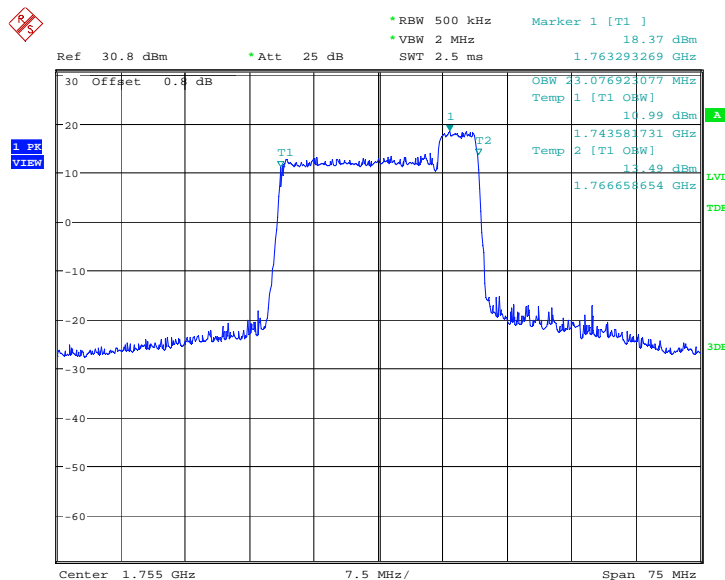
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1752.5	23.077	23.077

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



Date: 17.MAY.2022 23:48:34

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

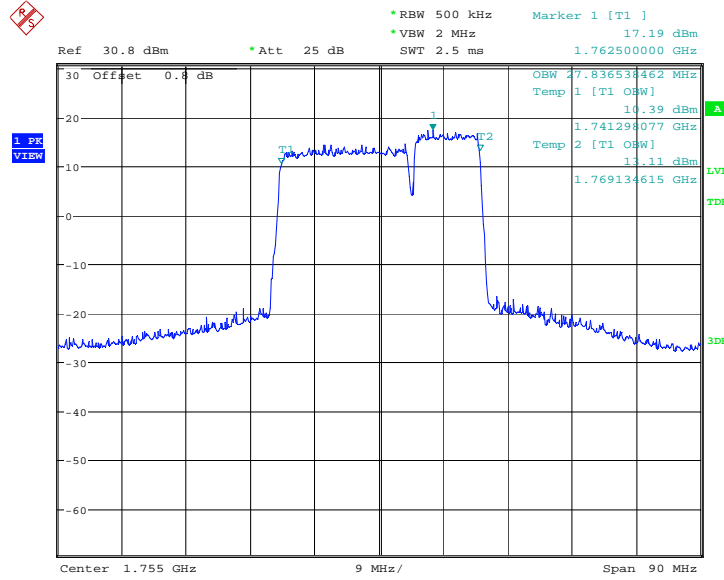


Date: 17.MAY.2022 23:48:56

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

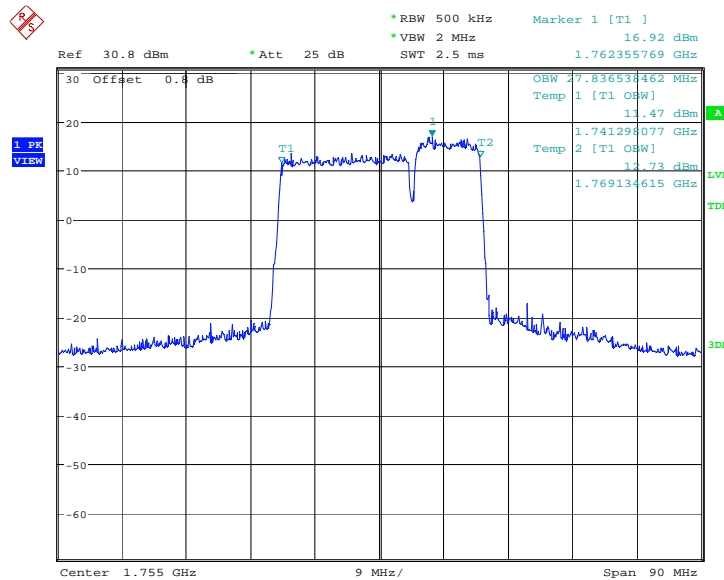
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1750.1	27.837	27.837

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



Date: 17.MAY.2022 23:50:00

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

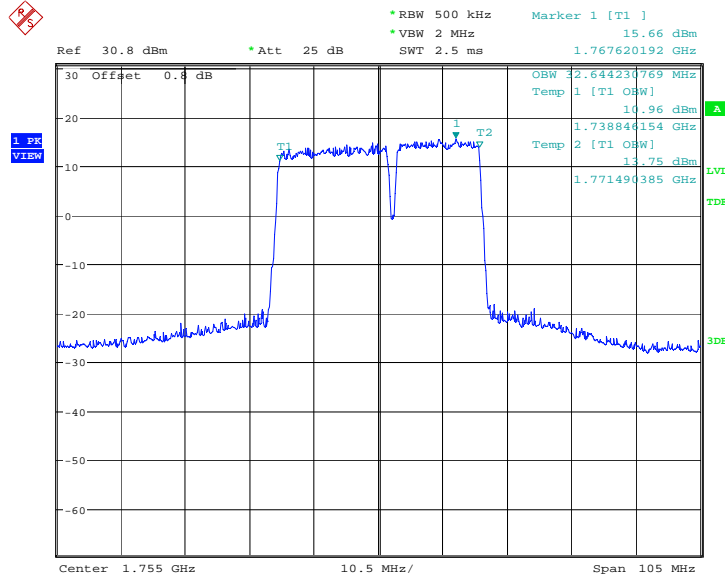


Date: 17.MAY.2022 23:50:22

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

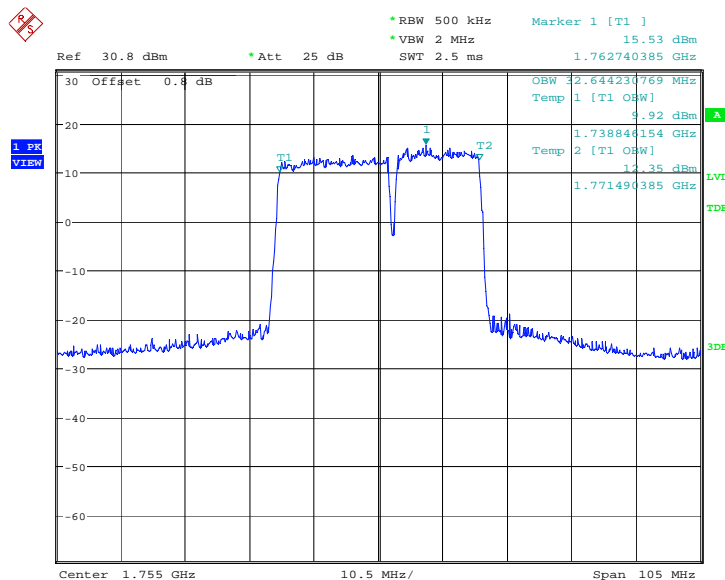
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1747.6	32.644	32.644

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



Date: 17.MAY.2022 23:51:26

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

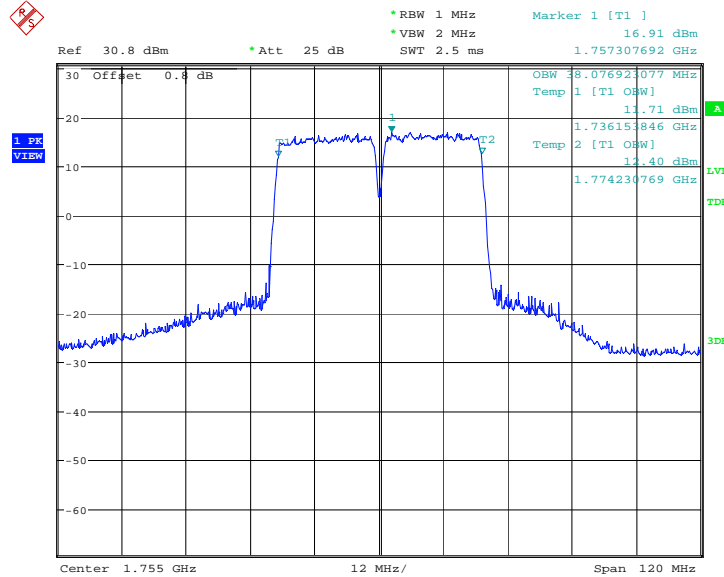


Date: 17.MAY.2022 23:51:48

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

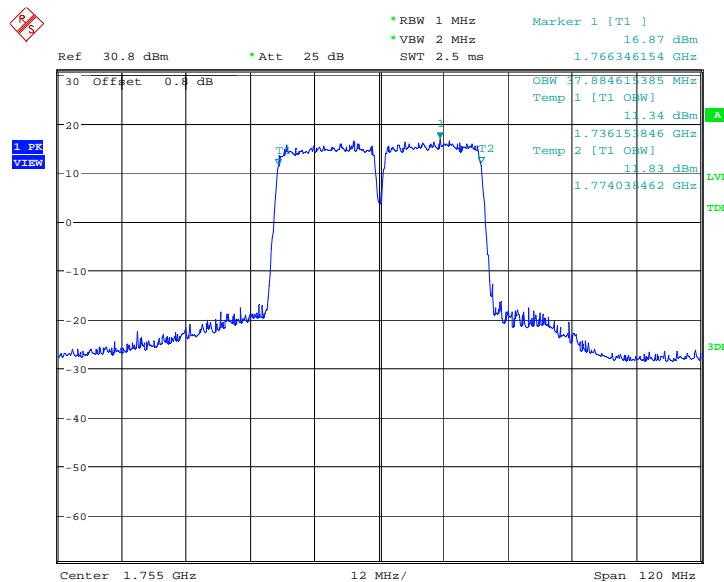
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1745.1	38.077	37.885

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



Date: 17.MAY.2022 23:52:52

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



Date: 17.MAY.2022 23:53:14

A.5 Emission Bandwidth

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

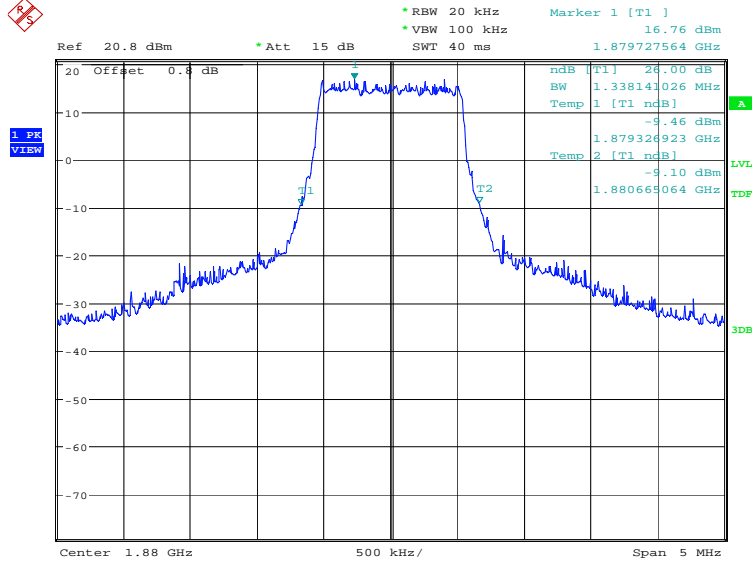
The measurement method is from ANSI C63.26:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ 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)

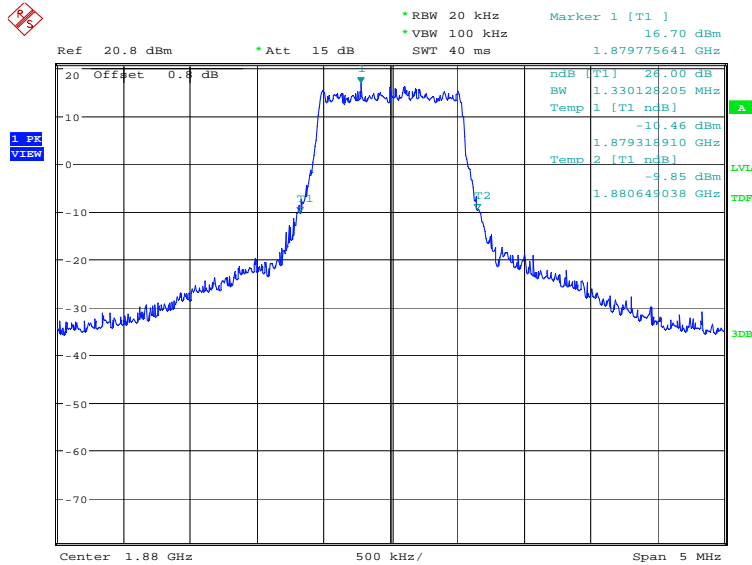
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	1338.14	1330.13

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



Date: 17.MAY.2022 13:18:09

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

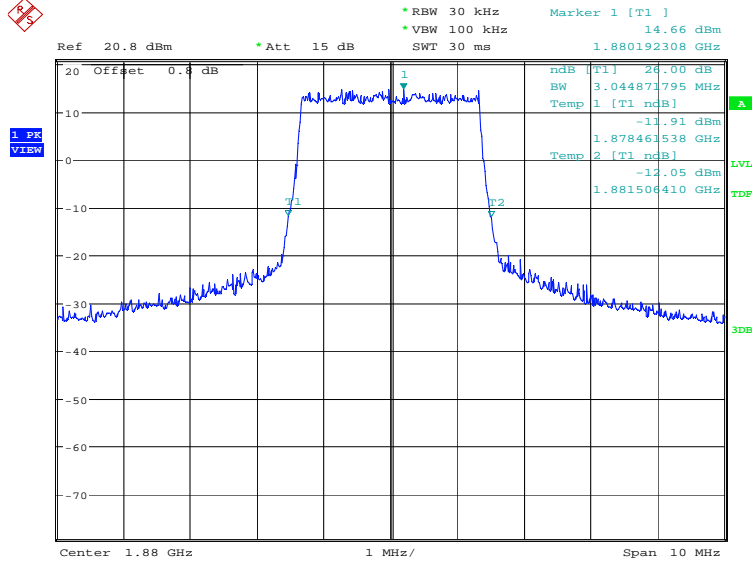


Date: 17.MAY.2022 13:18:48

LTE band 2, 3MHz (-26dBc)

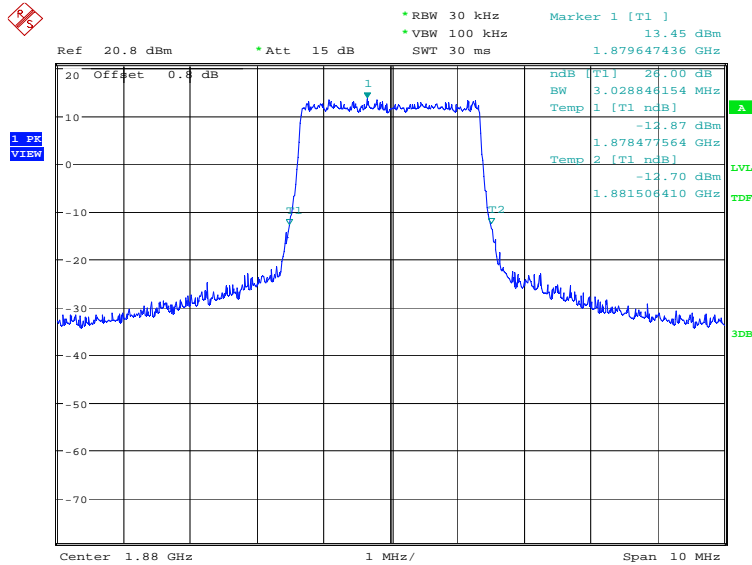
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	3044.87	3028.85

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



Date: 17.MAY.2022 13:19:34

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

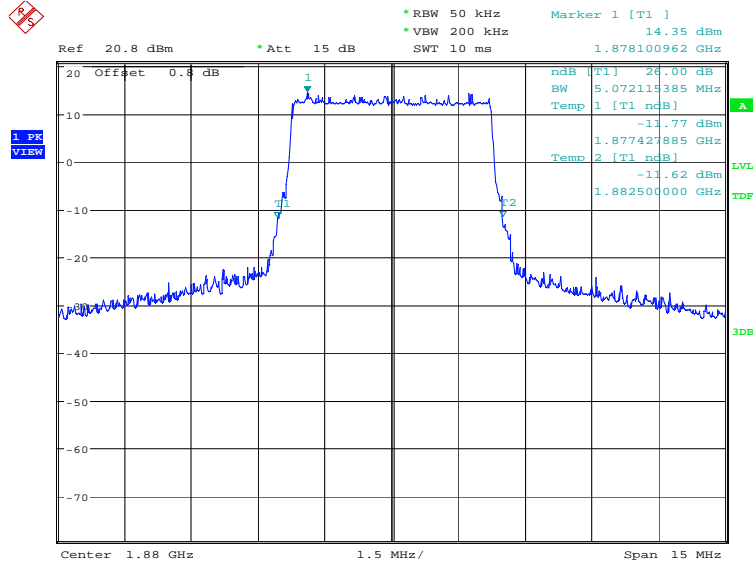


Date: 17.MAY.2022 13:20:13

LTE band 2, 5MHz (-26dBc)

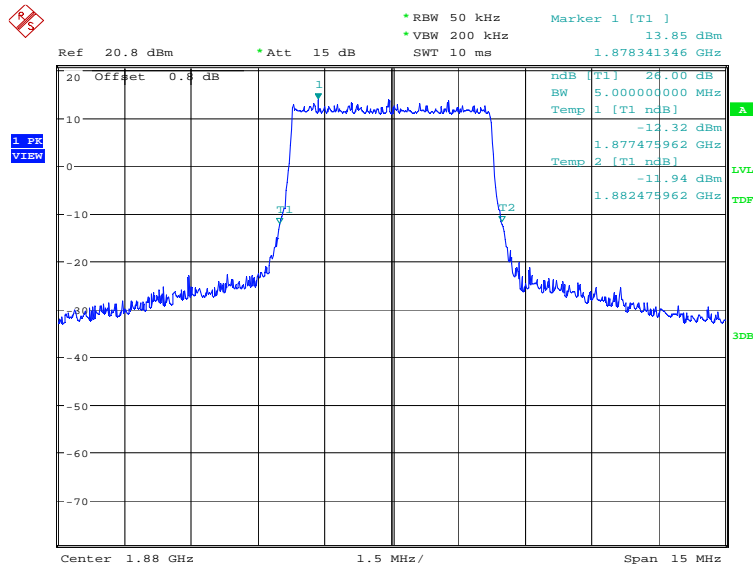
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	5072.12	5000.00

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



Date: 17.MAY.2022 13:20:59

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

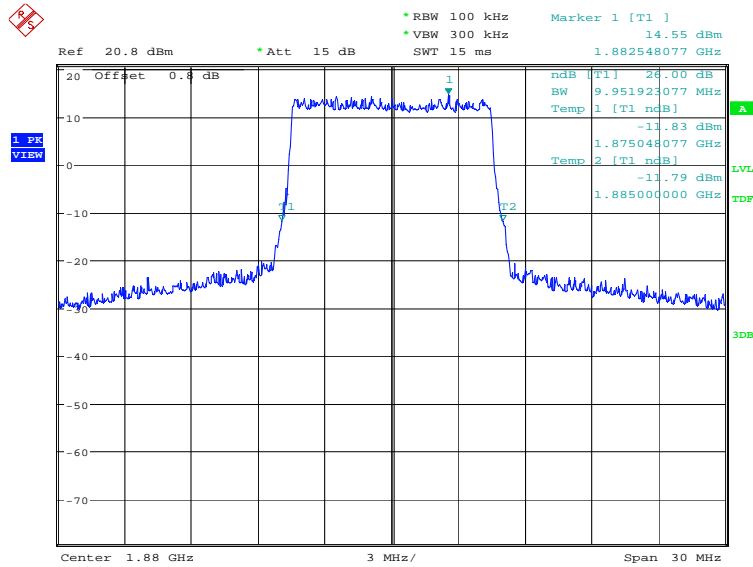


Date: 17.MAY.2022 13:21:38

LTE band 2, 10MHz (-26dBc)

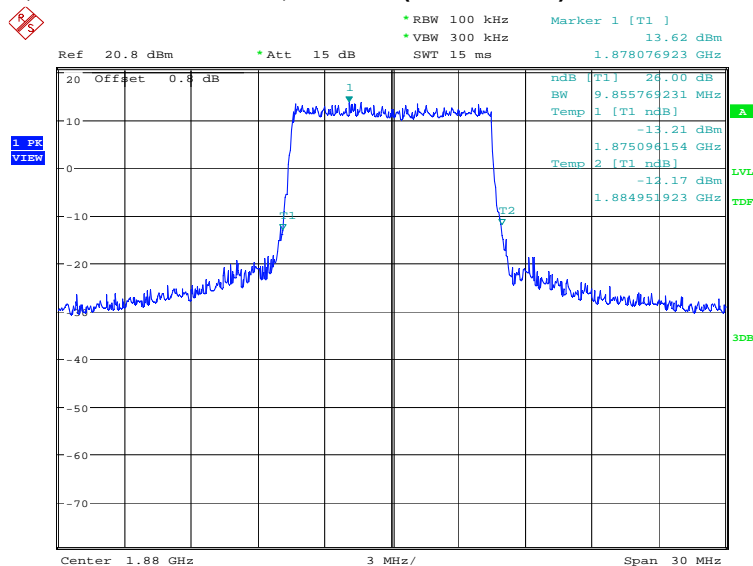
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	9951.92	9855.77

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



Date: 17.MAY.2022 13:22:24

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

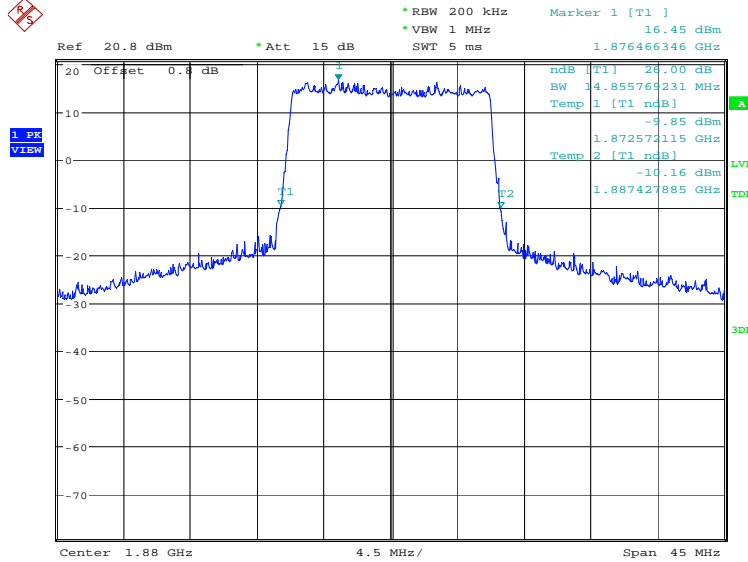


Date: 17.MAY.2022 13:23:04

LTE band 2, 15MHz (-26dBc)

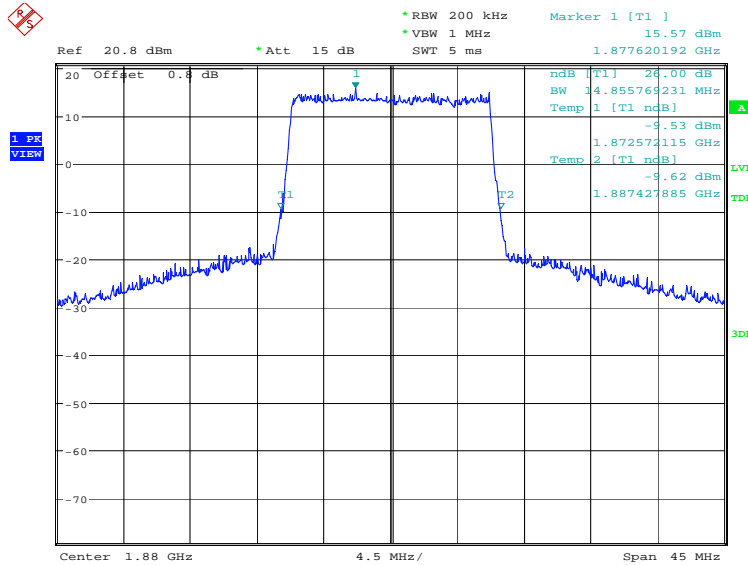
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	14855.77	14855.77

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



Date: 17.MAY.2022 13:23:49

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

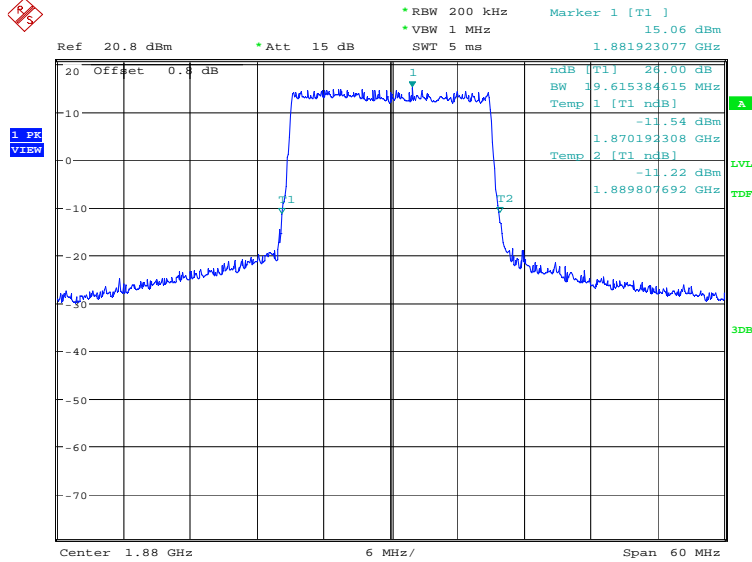


Date: 17.MAY.2022 13:24:29

LTE band 2, 20MHz (-26dBc)

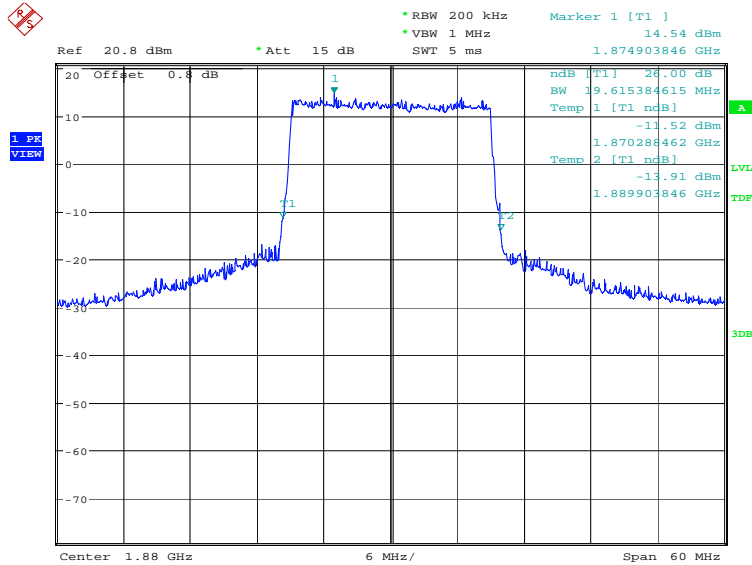
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	19615.38	19615.38

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



Date: 17.MAY.2022 13:25:14

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

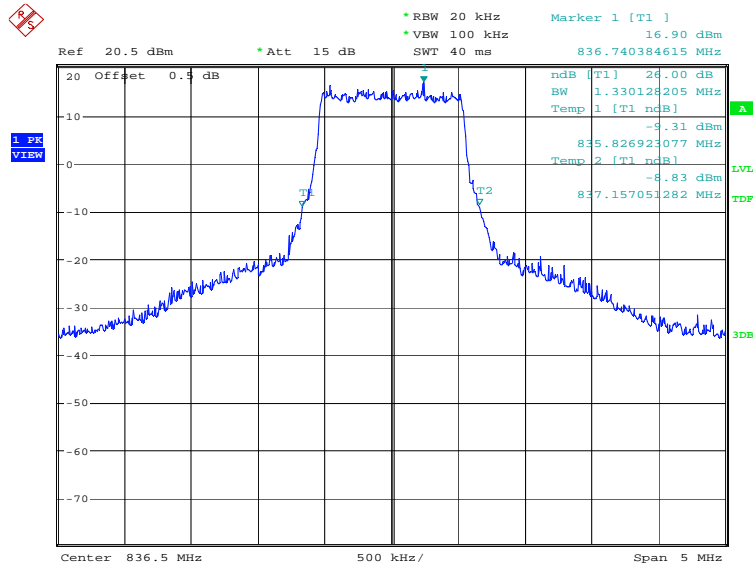


Date: 17.MAY.2022 13:25:54

LTE band 5, 1.4MHz (-26dBc)

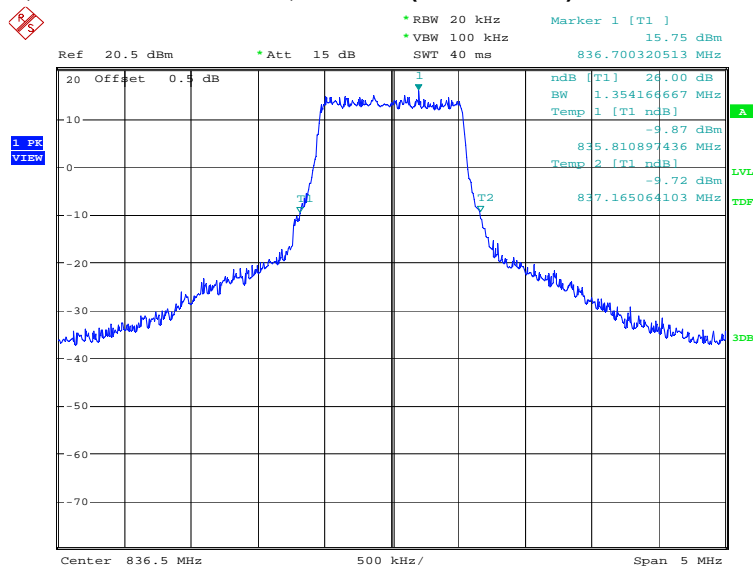
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	1330.13	1354.17

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



Date: 17.MAY.2022 13:27:32

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

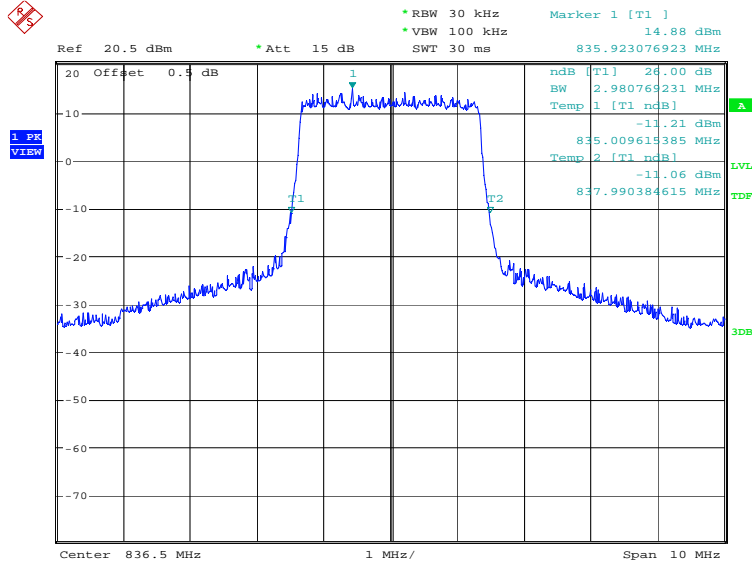


Date: 17.MAY.2022 13:28:12

LTE band 5, 3MHz (-26dBc)

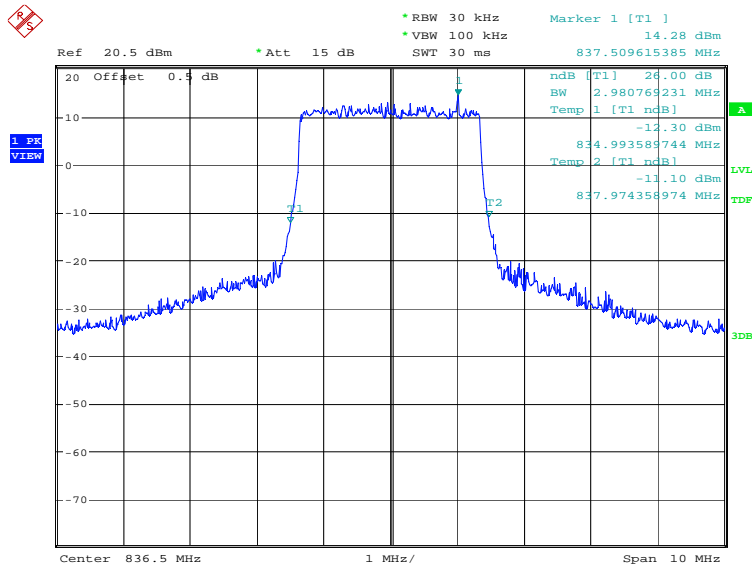
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	2980.77	2980.77

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



Date: 17.MAY.2022 13:28:56

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

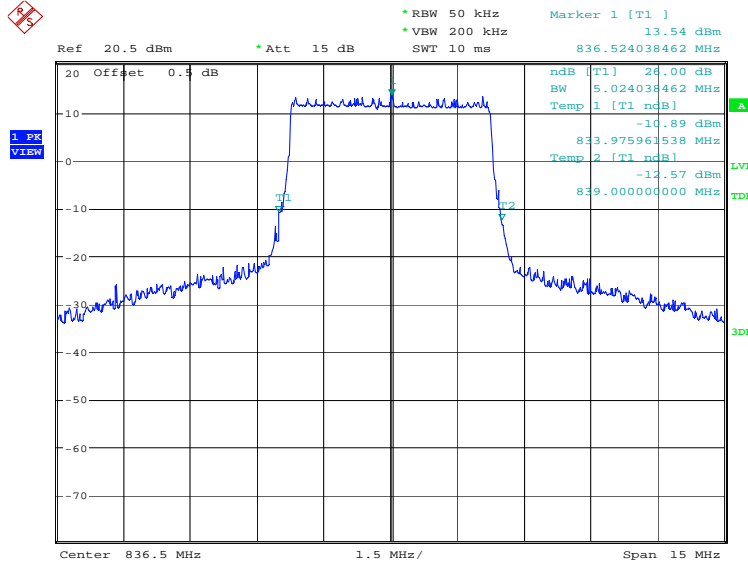


Date: 17.MAY.2022 13:29:36

LTE band 5, 5MHz (-26dBc)

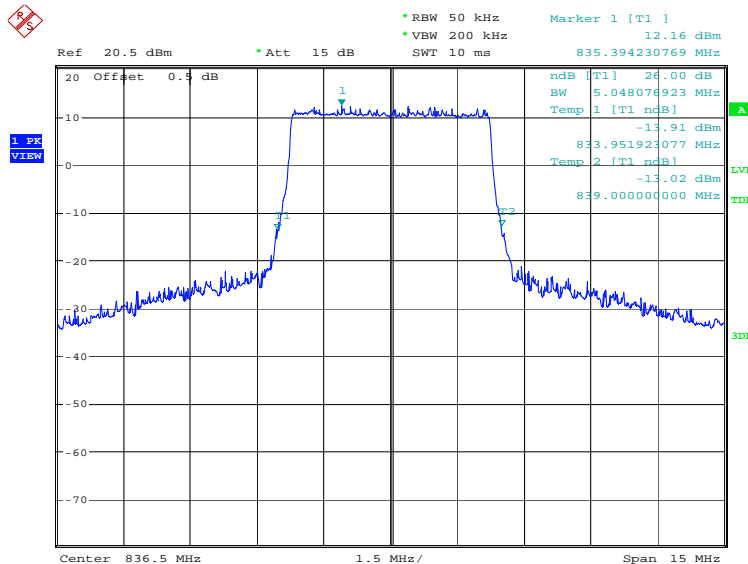
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	5024.04	5048.08

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



Date: 17.MAY.2022 13:30:21

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

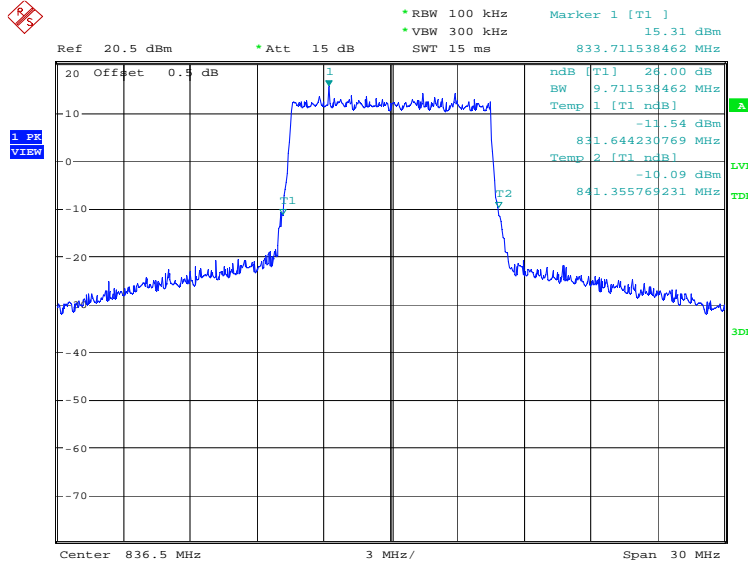


Date: 17.MAY.2022 13:31:01

LTE band 5, 10MHz (-26dBc)

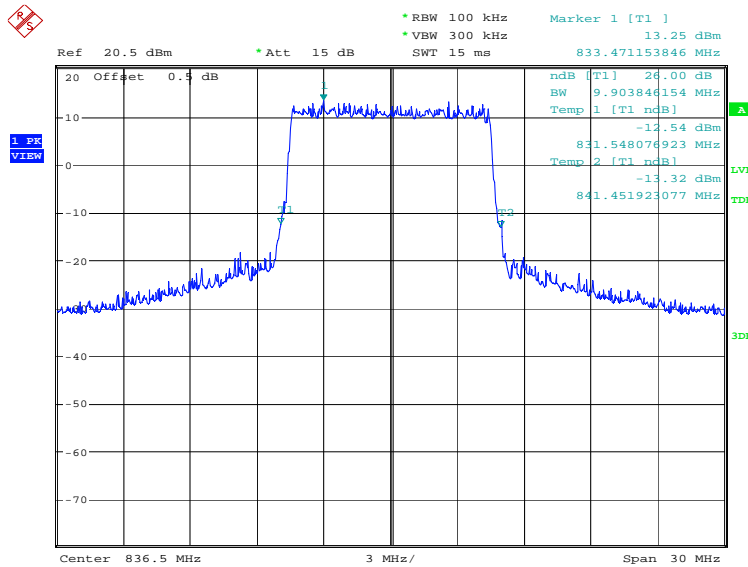
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	9711.54	9903.85

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



Date: 17.MAY.2022 13:31:46

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

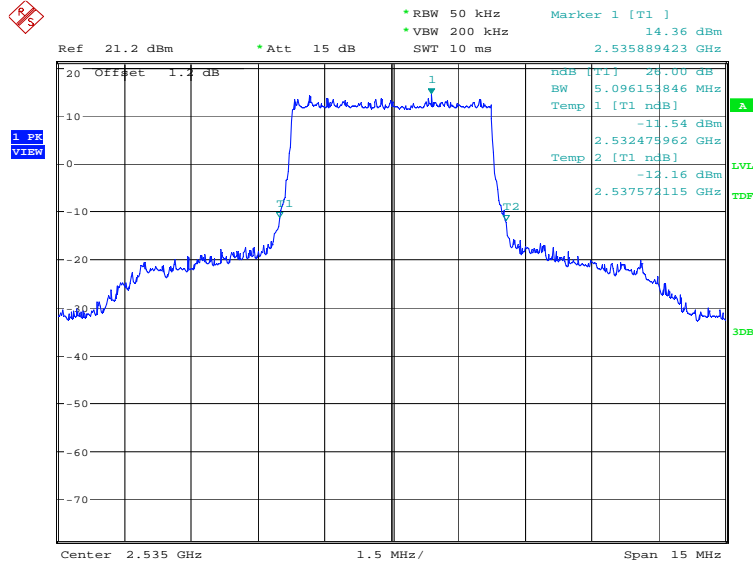


Date: 17.MAY.2022 13:32:26

LTE band 7, 5MHz (-26dBc)

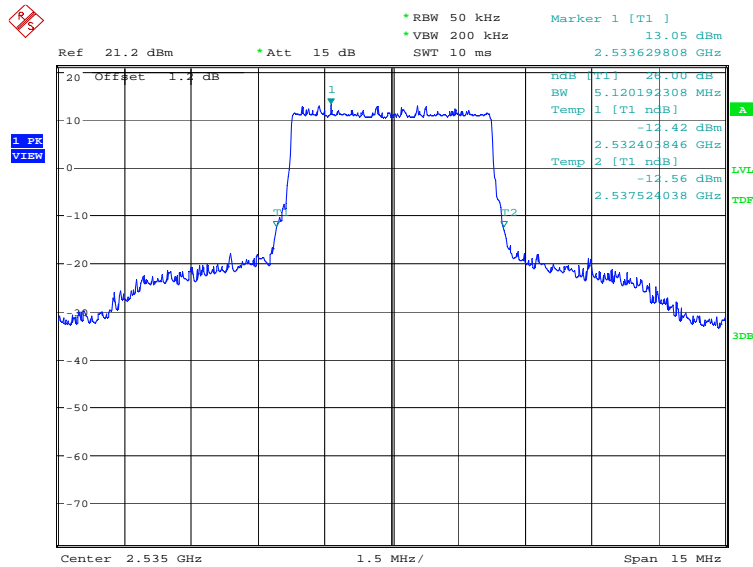
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	5096.15	5120.19

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



Date: 17.MAY.2022 13:33:15

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

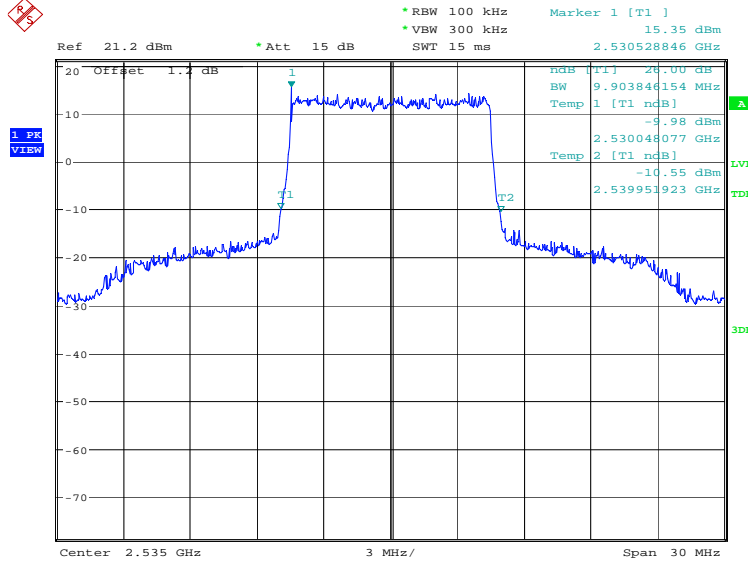


Date: 17.MAY.2022 13:33:54

LTE band 7, 10MHz (-26dBc)

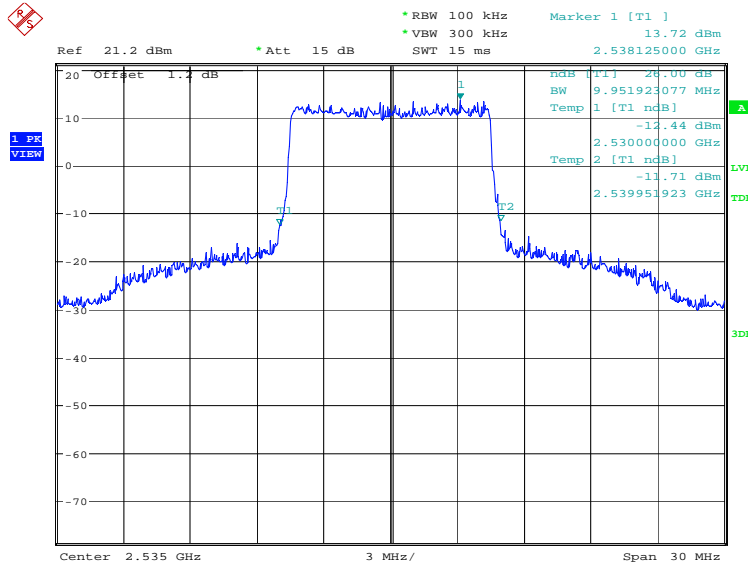
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	9903.85	9951.92

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



Date: 17.MAY.2022 13:34:39

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

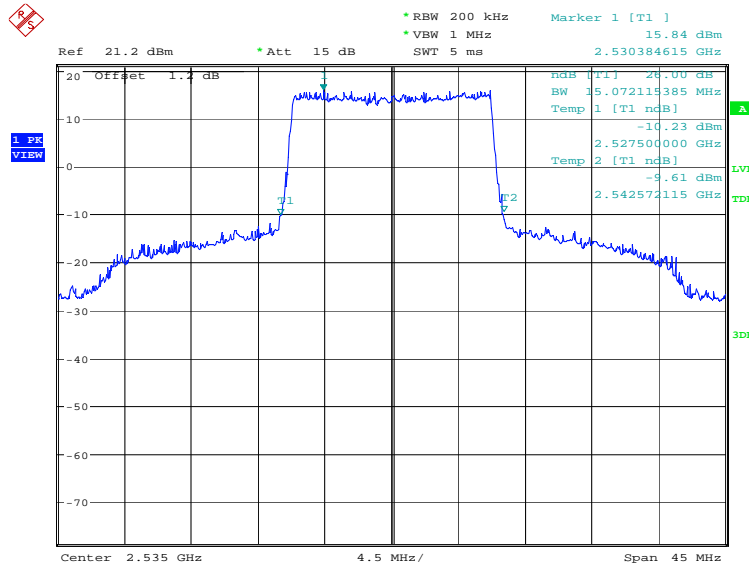


Date: 17.MAY.2022 13:35:18

LTE band 7, 15MHz (-26dBc)

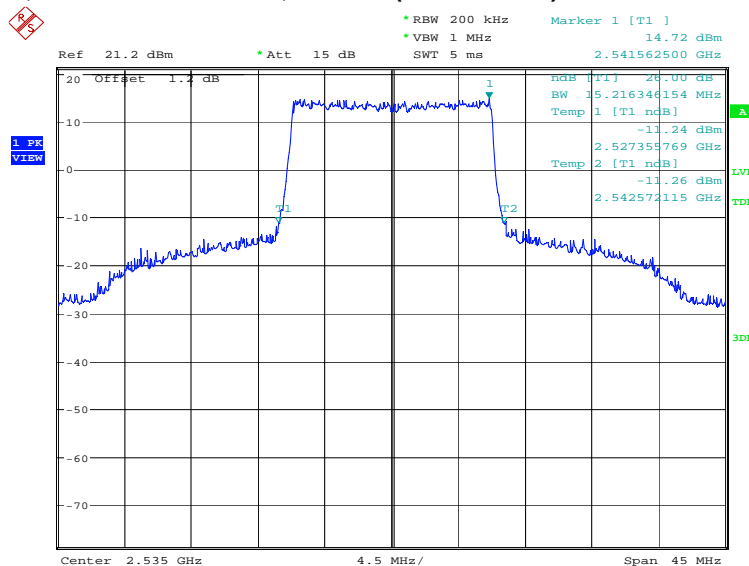
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	15072.12	15216.35

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



Date: 17.MAY.2022 13:36:02

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

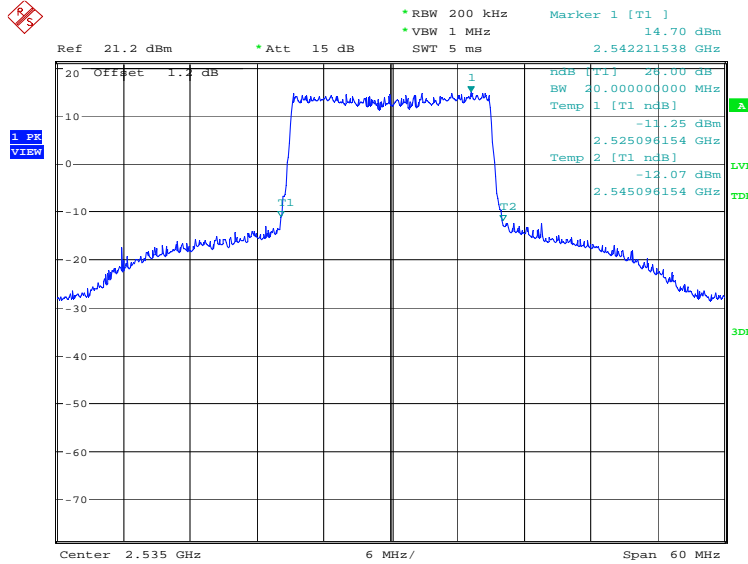


Date: 17.MAY.2022 13:36:42

LTE band 7, 20MHz (-26dBc)

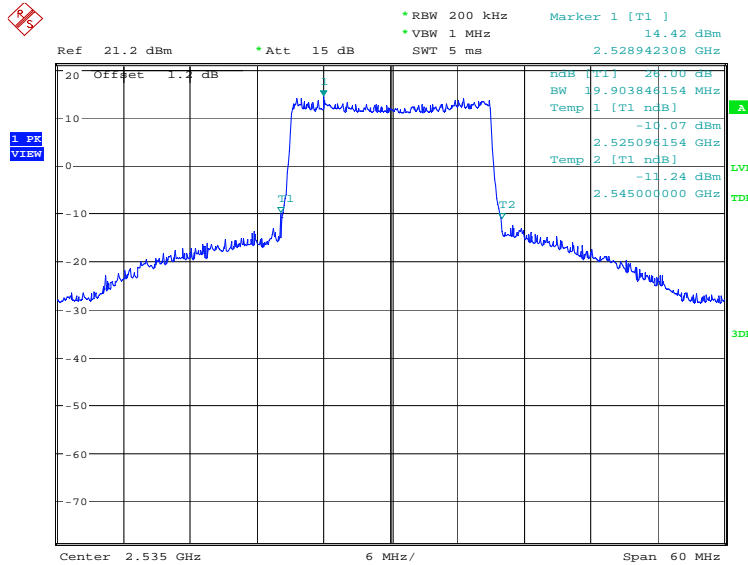
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	20000.00	19903.85

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



Date: 17.MAY.2022 13:37:26

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

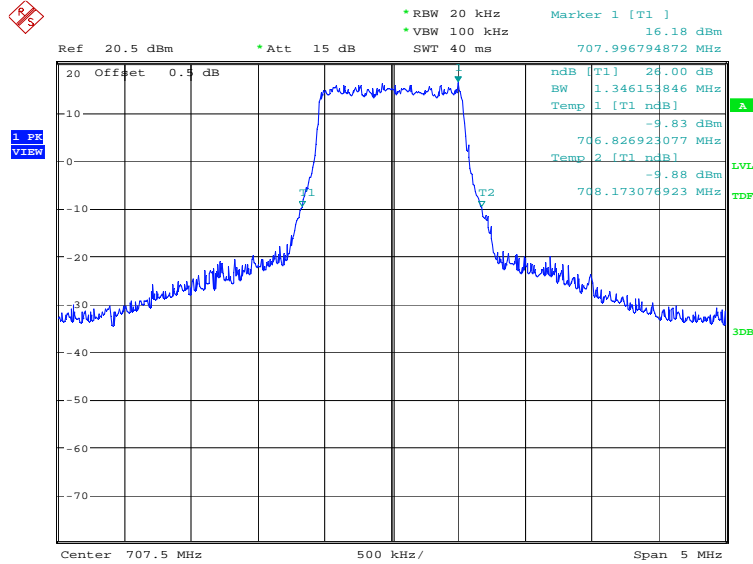


Date: 17.MAY.2022 13:38:05

LTE band 12, 1.4MHz (-26dBc)

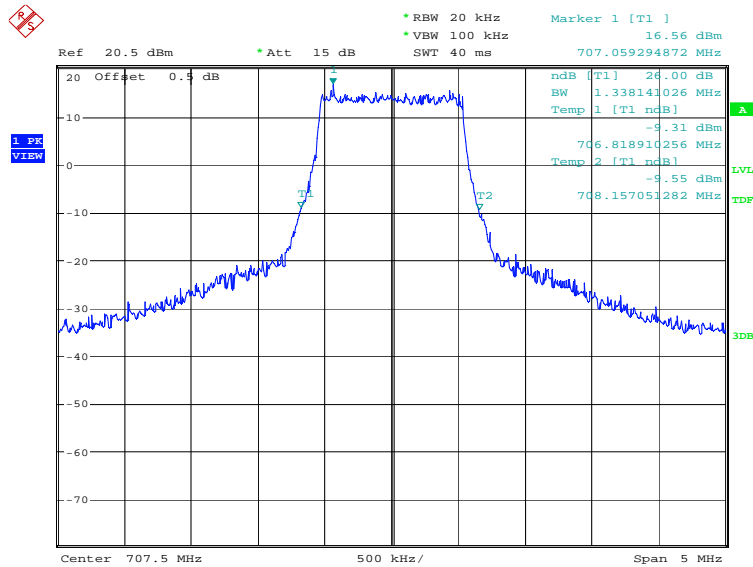
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	1346.15	1338.14

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



Date: 17.MAY.2022 13:39:43

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

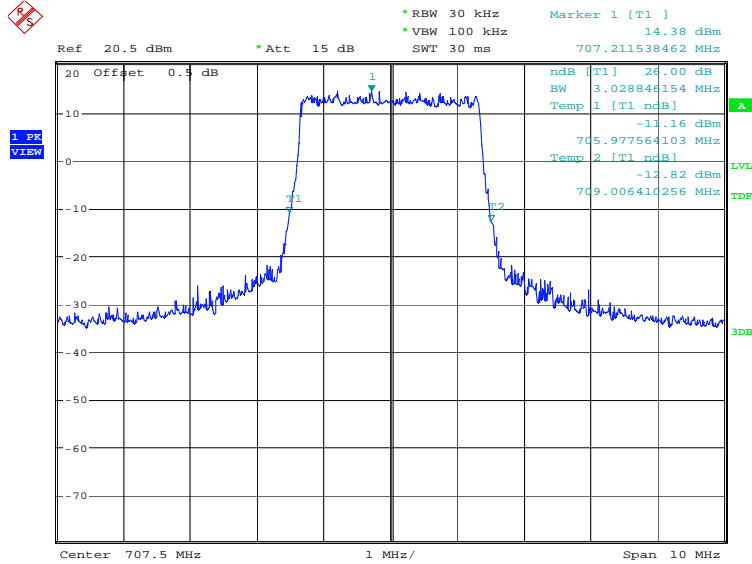


Date: 17.MAY.2022 13:40:22

LTE band 12, 3MHz (-26dBc)

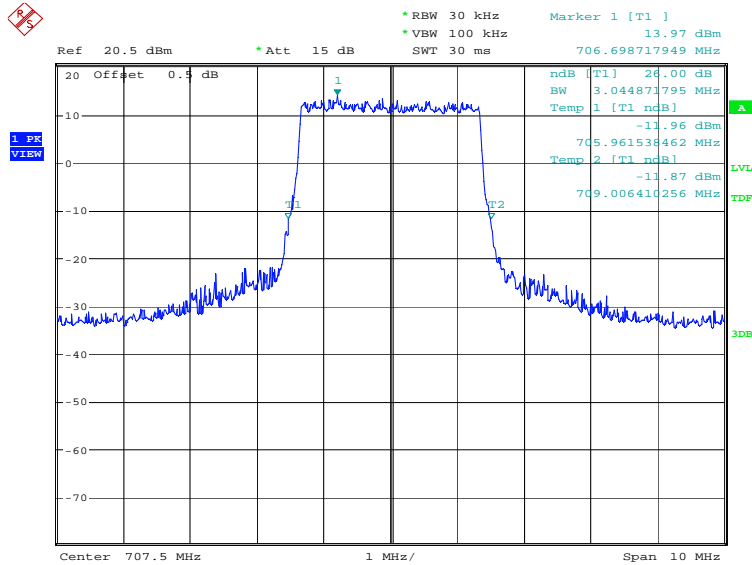
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	3028.85	3044.87

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



Date: 17.MAY.2022 13:41:07

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

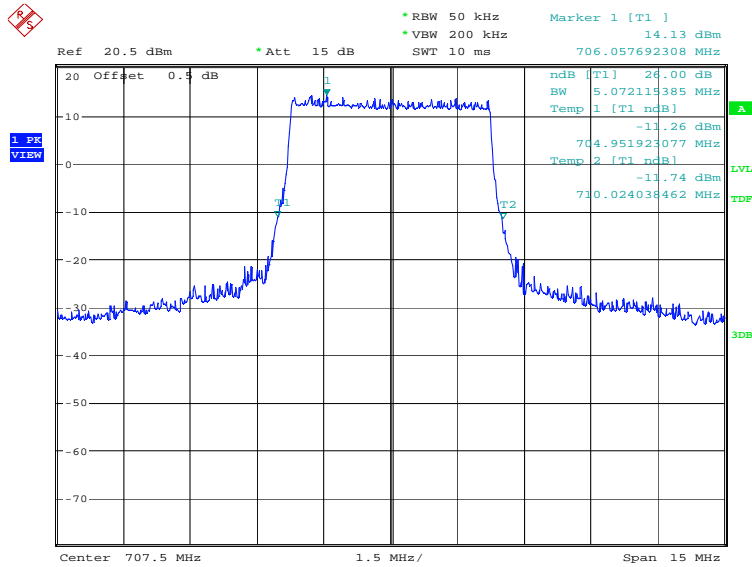


Date: 17.MAY.2022 13:41:46

LTE band 12, 5MHz (-26dBc)

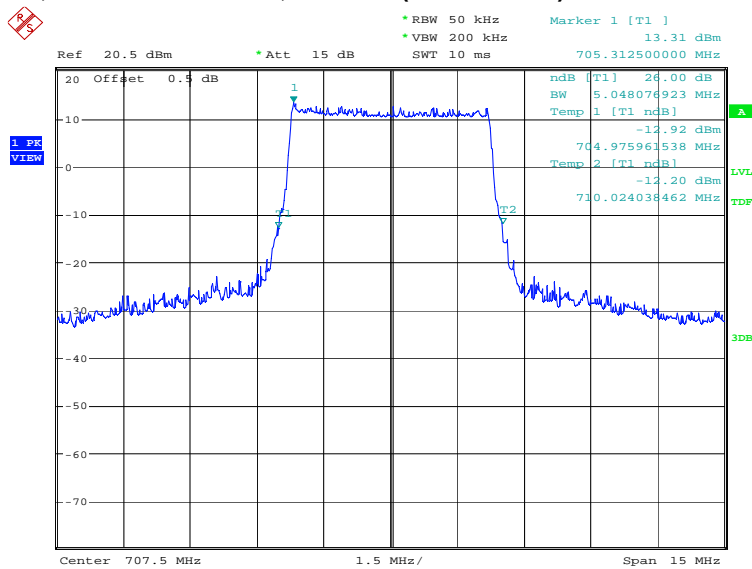
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	5072.12	5048.08

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



Date: 17.MAY.2022 13:42:30

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

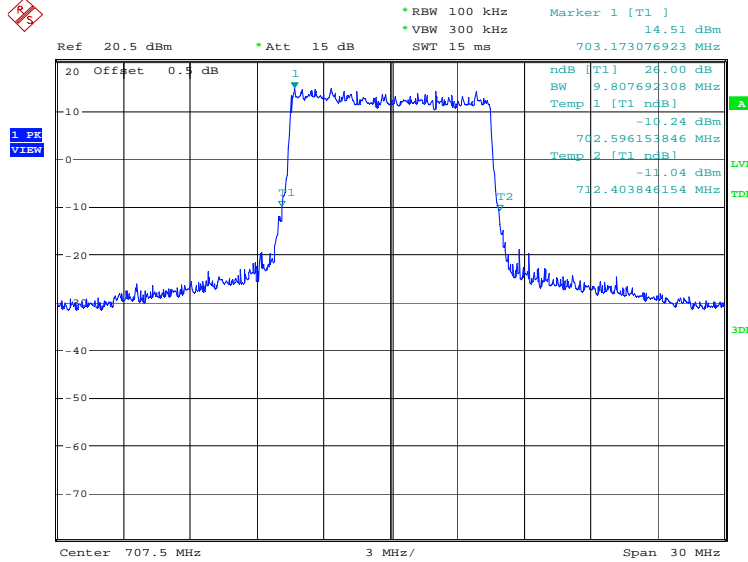


Date: 17.MAY.2022 13:43:09

LTE band 12, 10MHz (-26dBc)

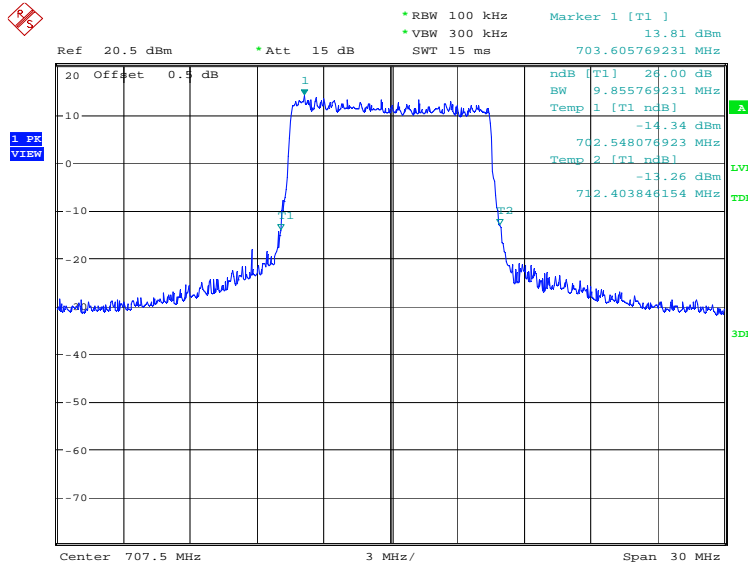
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	9807.69	9855.77

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



Date: 17.MAY.2022 13:43:54

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

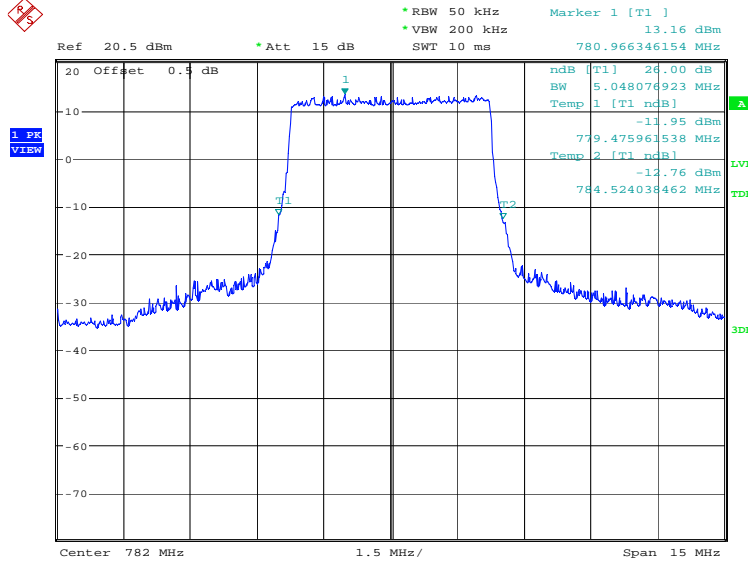


Date: 17.MAY.2022 13:44:33

LTE band 13, 5MHz (-26dBc)

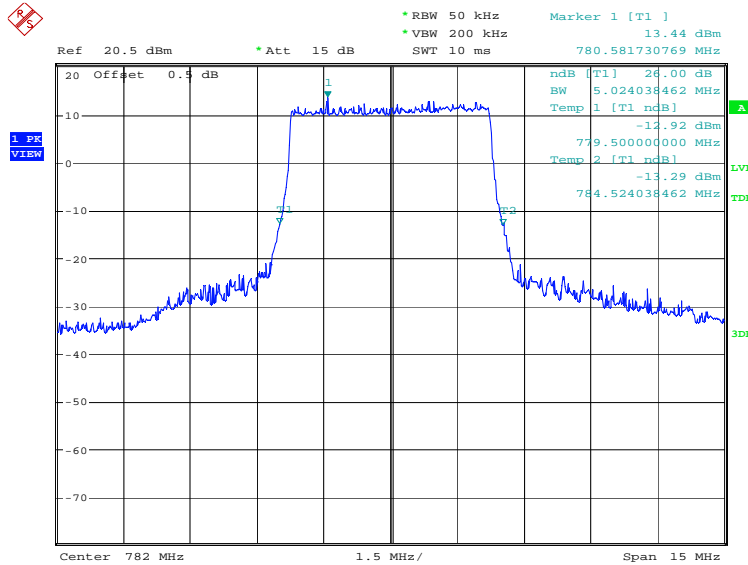
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	5048.08	5024.04

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



Date: 17.MAY.2022 13:45:23

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

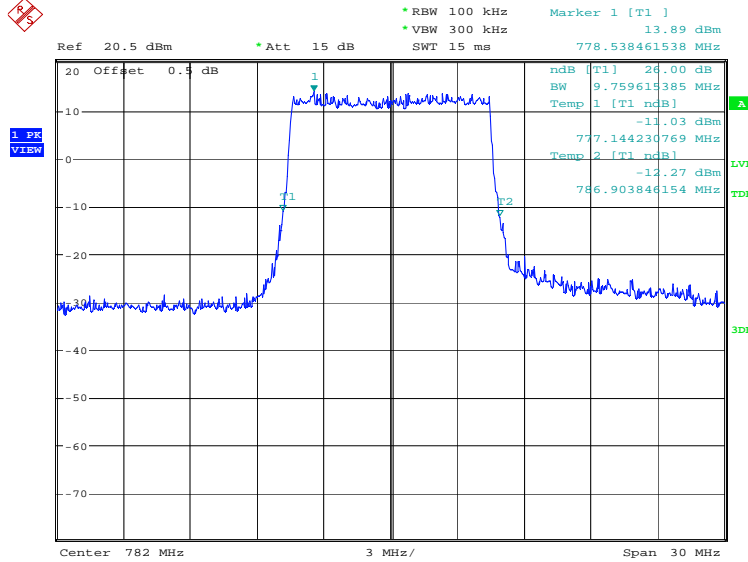


Date: 17.MAY.2022 13:46:02

LTE band 13, 10MHz (-26dBc)

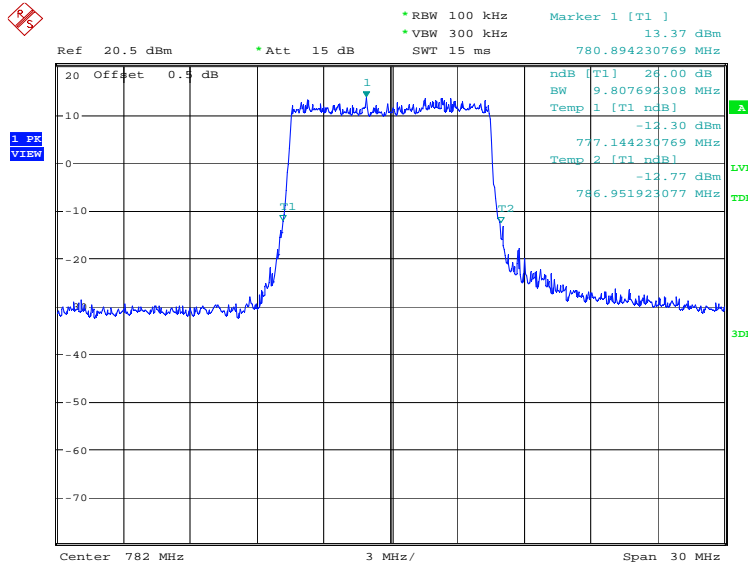
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	9759.62	9807.69

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



Date: 17.MAY.2022 13:46:47

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

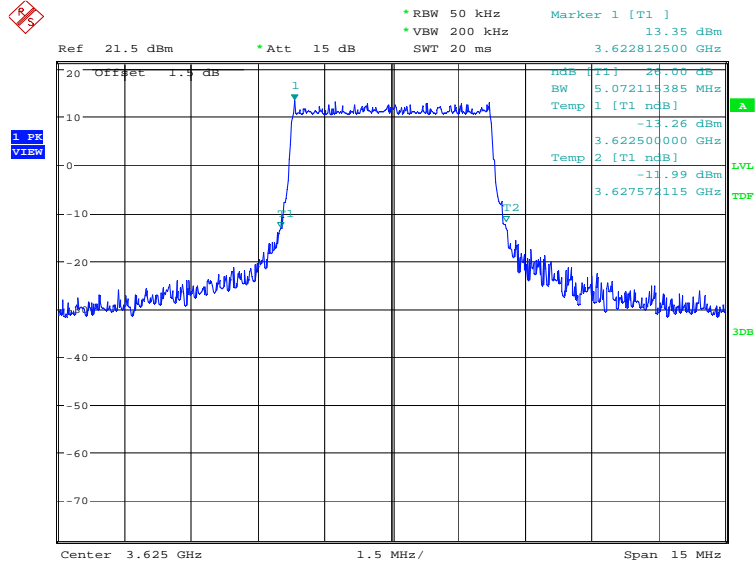


Date: 17.MAY.2022 13:47:26

LTE band 48, 5MHz (-26dBc)

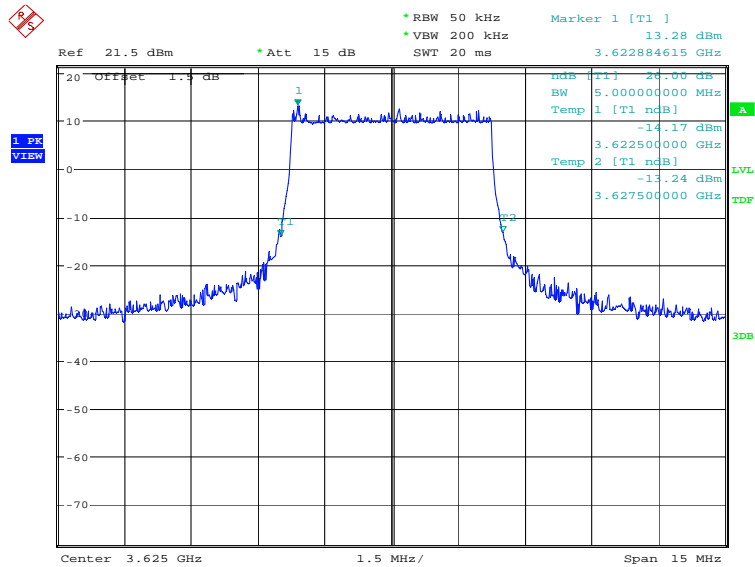
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
3625.0	QPSK	16QAM
	5072.12	5000.00

LTE band 48, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 17.MAY.2022 16:32:29

LTE band 48, 5MHz Bandwidth, 16QAM (-26dBc BW)

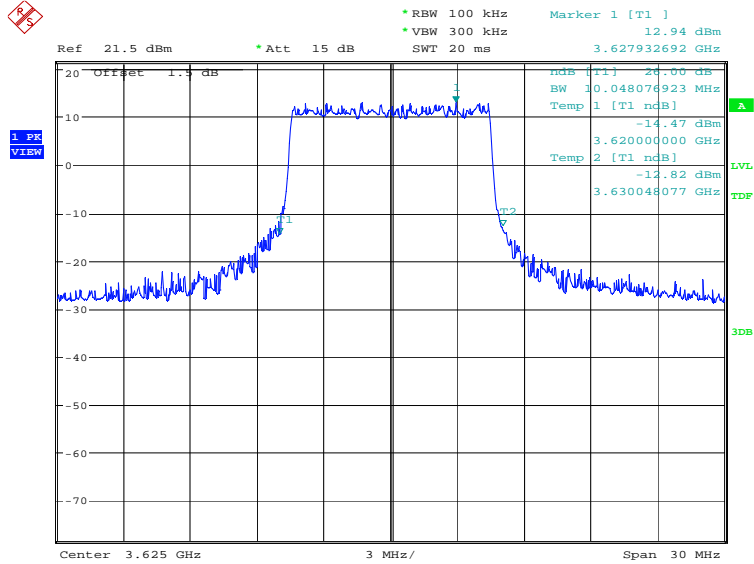


Date: 17.MAY.2022 16:33:07

LTE band 48, 10MHz (-26dBc)

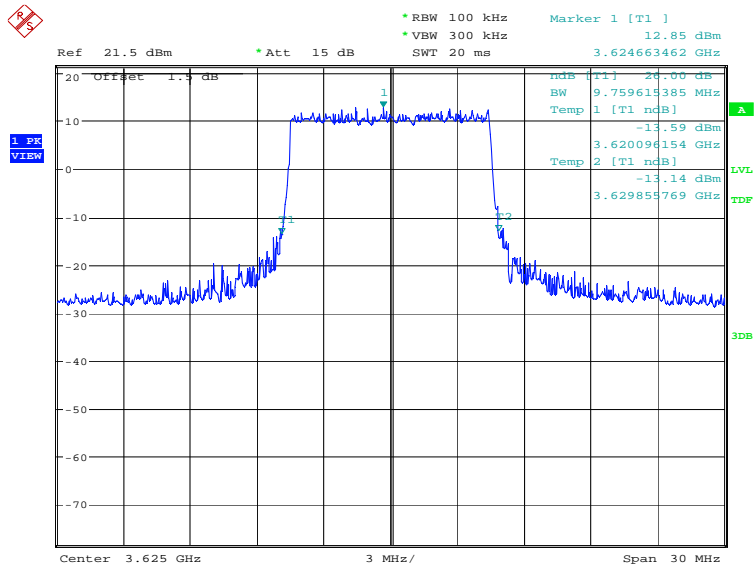
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
3625.0	QPSK	16QAM
	10048.08	9759.62

LTE band 48, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 17.MAY.2022 16:33:51

LTE band 48, 10MHz Bandwidth,16QAM (-26dBc BW)

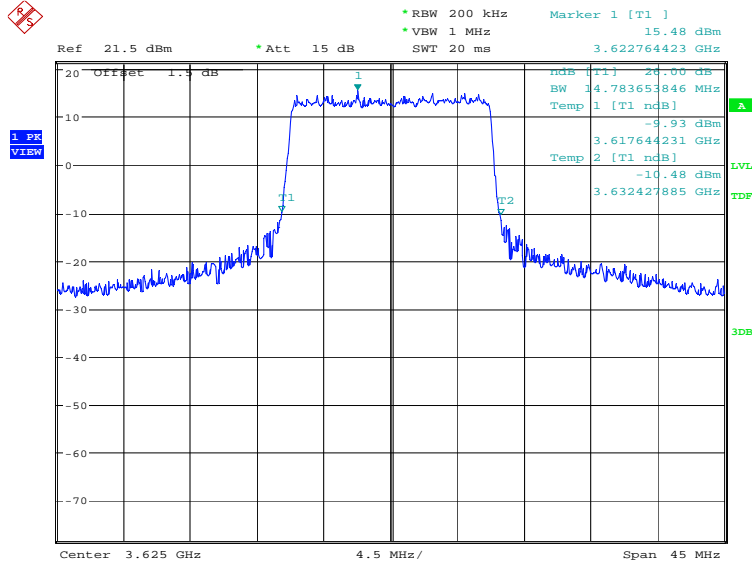


Date: 17.MAY.2022 16:34:29

LTE band 48, 15MHz (-26dBc)

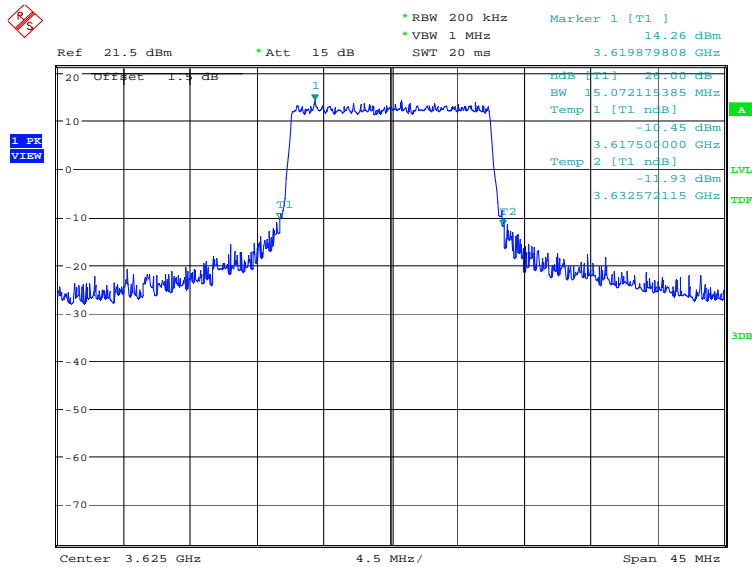
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
3625.0	QPSK	16QAM
	14783.65	15072.12

LTE band 48, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 17.MAY.2022 16:35:13

LTE band 48, 15MHz Bandwidth,16QAM (-26dBc BW)

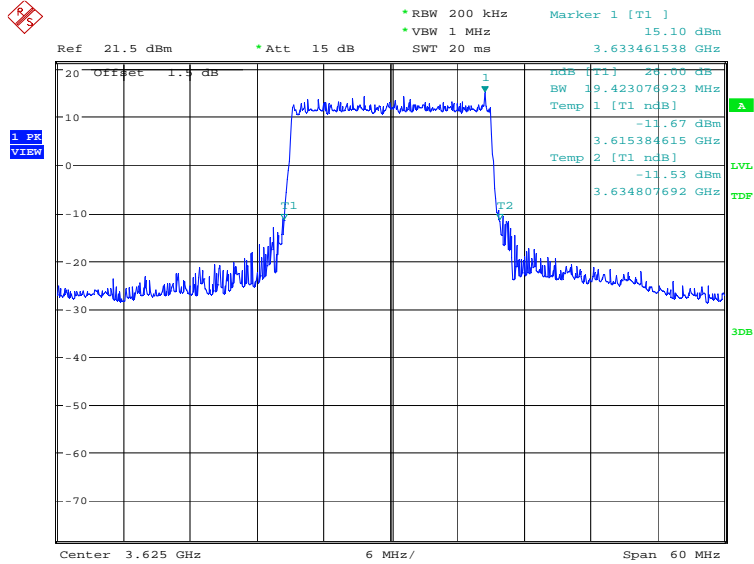


Date: 17.MAY.2022 16:35:52

LTE band 48, 20MHz (-26dBc)

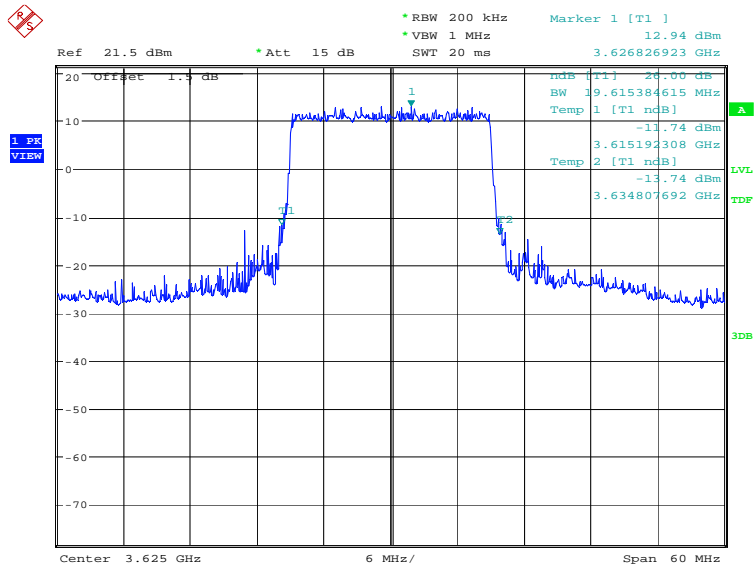
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
3625.0	QPSK	16QAM
	19423.08	19615.38

LTE band 48, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 17.MAY.2022 16:36:37

LTE band 48, 20MHz Bandwidth, 16QAM (-26dBc BW)

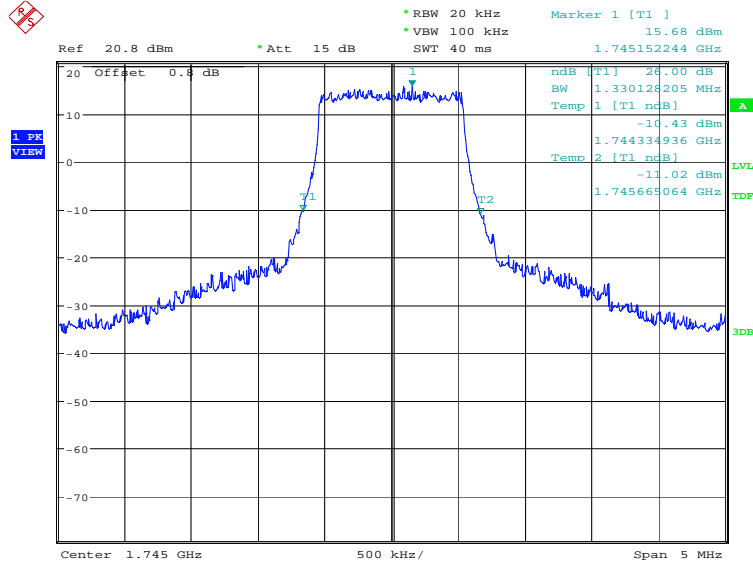


Date: 17.MAY.2022 16:37:16

LTE band 66, 1.4MHz (-26dBc)

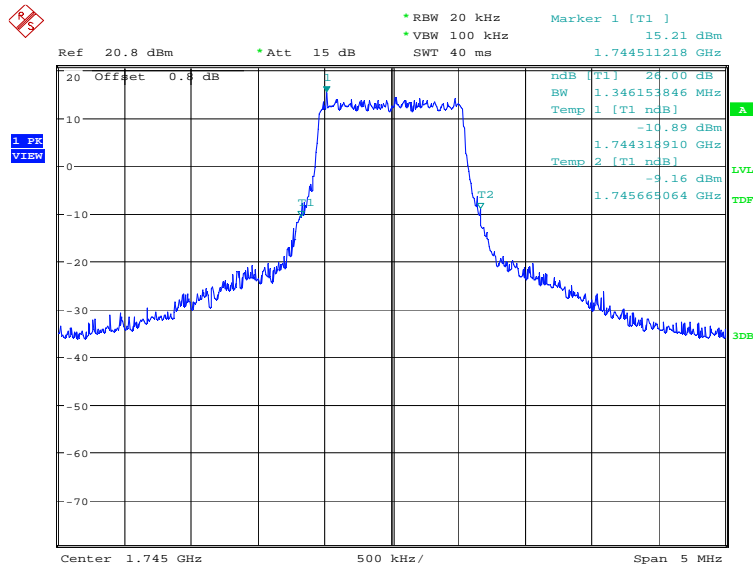
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
	1745.0	QPSK
	1330.13	1346.15

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



Date: 17.MAY.2022 13:48:16

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

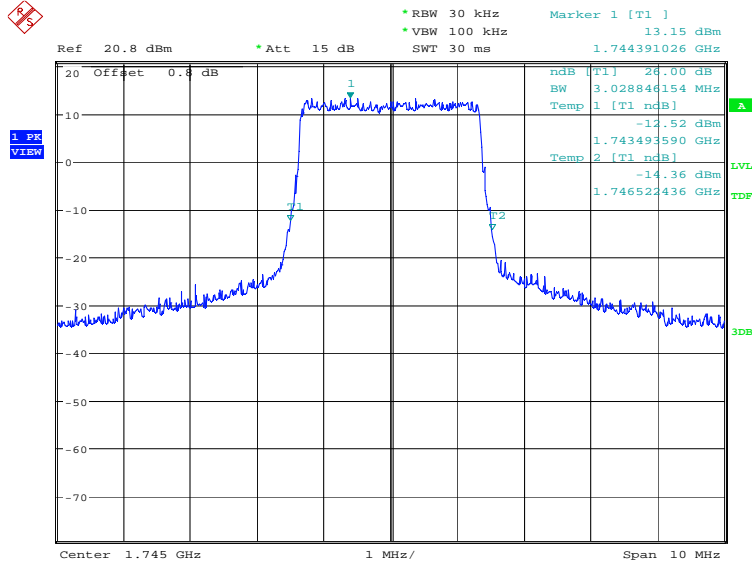


Date: 17.MAY.2022 13:48:55

LTE band 66, 3MHz (-26dBc)

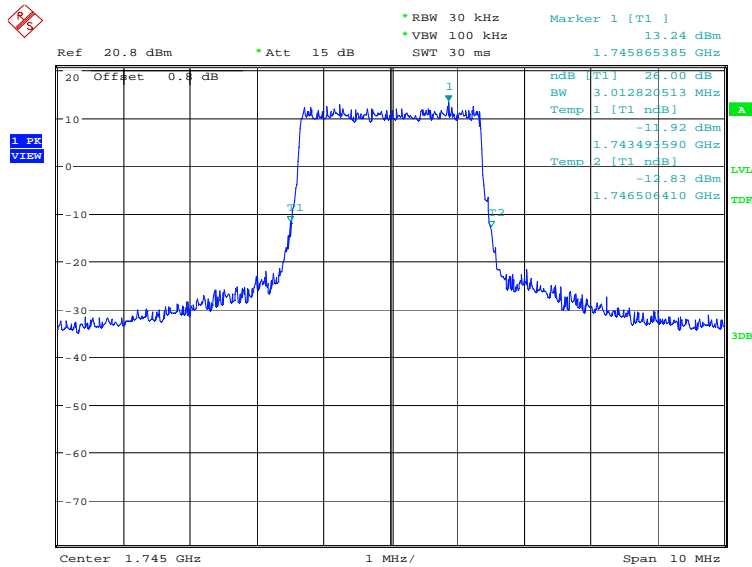
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	3028.85	3012.82

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



Date: 17.MAY.2022 13:49:40

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

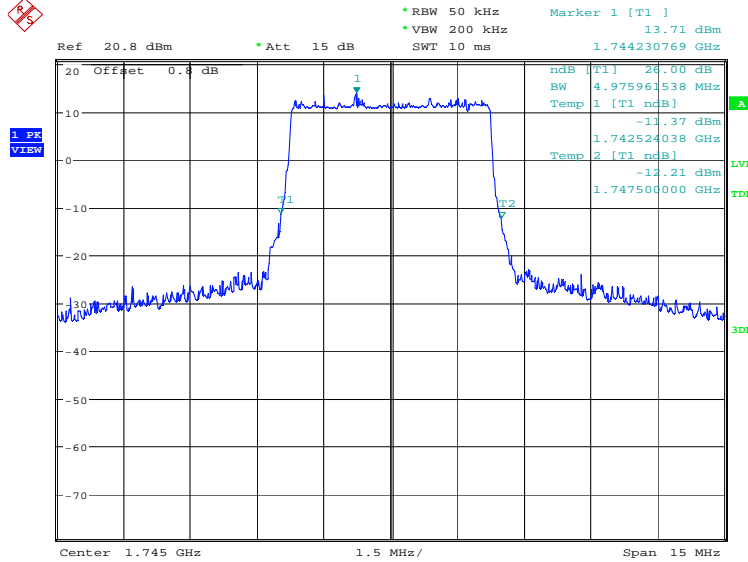


Date: 17.MAY.2022 13:50:19

LTE band 66, 5MHz (-26dBc)

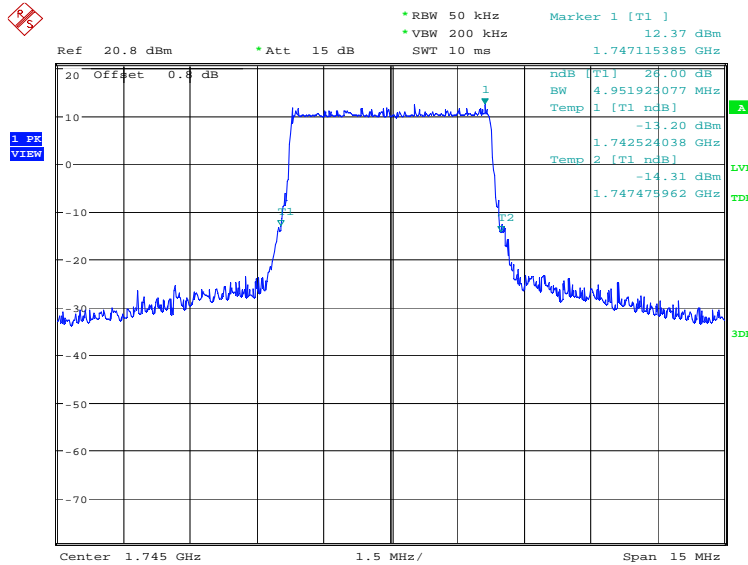
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	4975.96	4951.92

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



Date: 17.MAY.2022 13:51:04

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

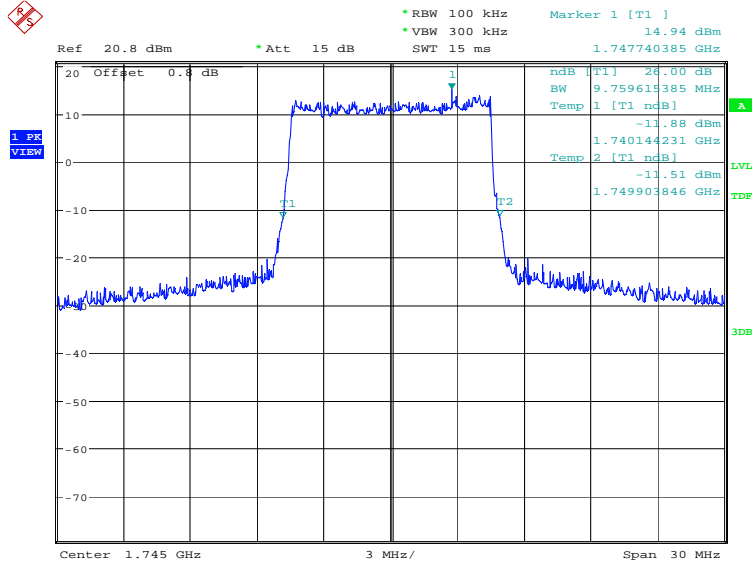


Date: 17.MAY.2022 13:51:43

LTE band 66, 10MHz (-26dBc)

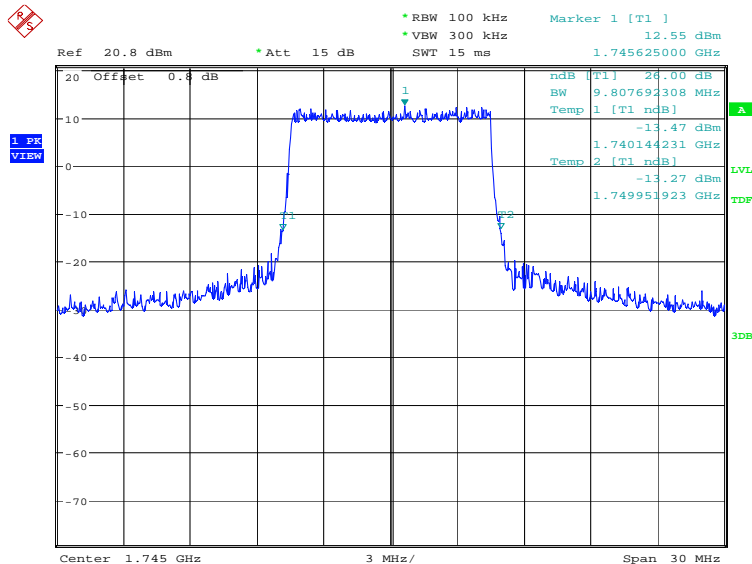
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	9759.62	9807.69

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



Date: 17.MAY.2022 13:52:28

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

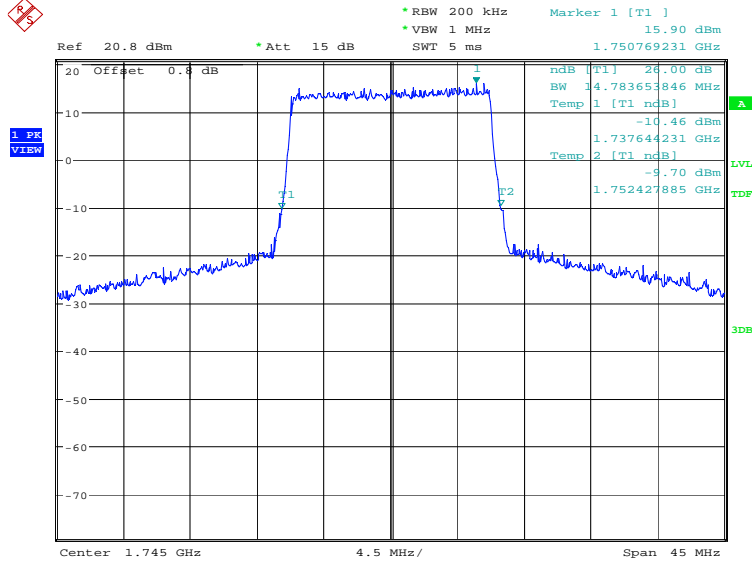


Date: 17.MAY.2022 13:53:07

LTE band 66, 15MHz (-26dBc)

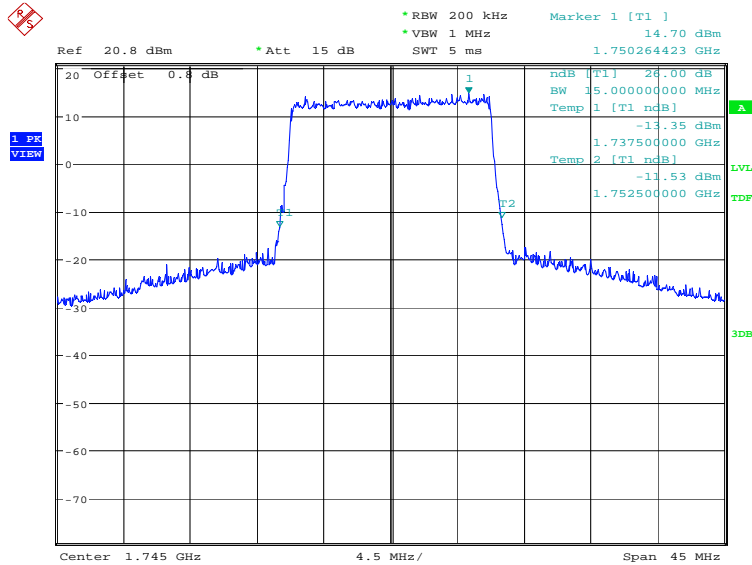
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	14783.65	15000.00

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



Date: 17.MAY.2022 13:53:52

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

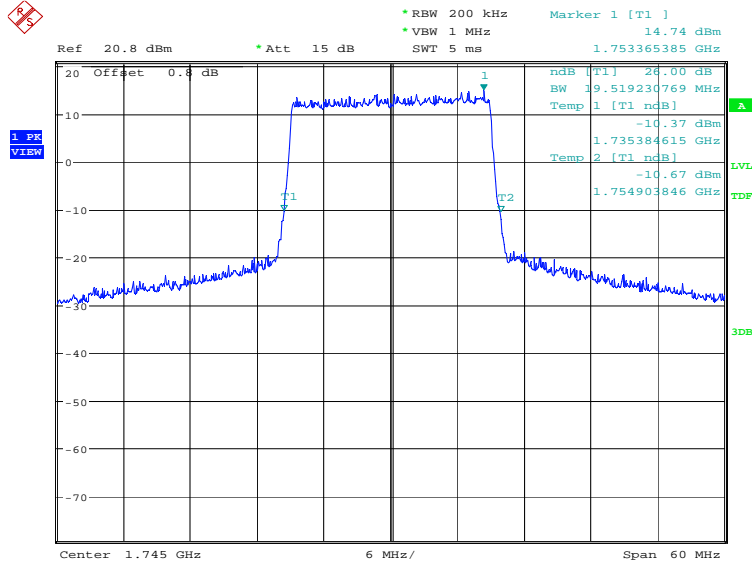


Date: 17.MAY.2022 13:54:31

LTE band 66, 20MHz (-26dBc)

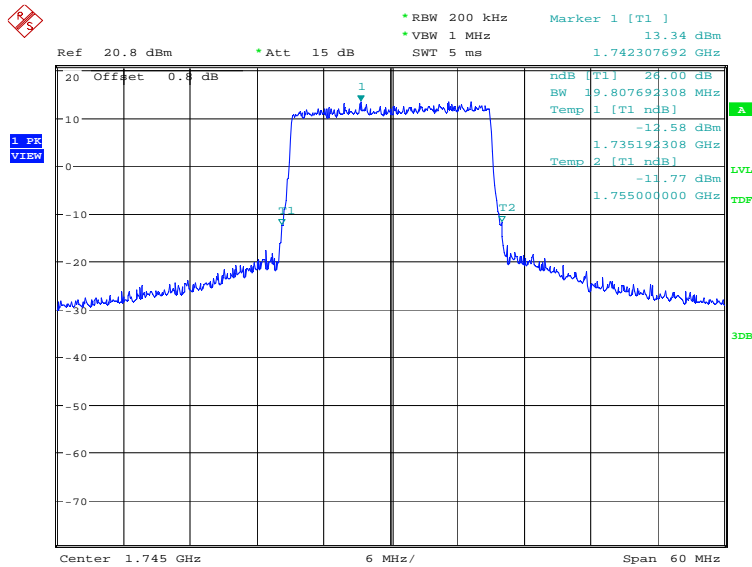
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	19519.23	19807.69

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



Date: 17.MAY.2022 13:55:15

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

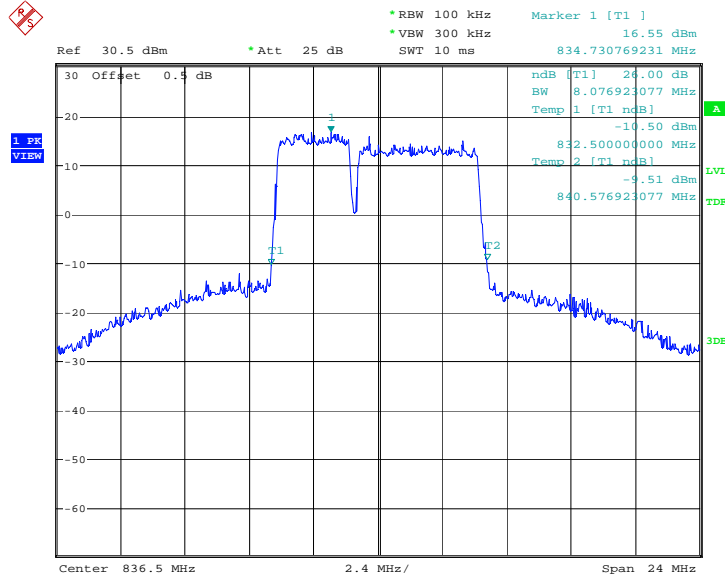


Date: 17.MAY.2022 13:55:55

LTE CA Band 5B, 3MHz+5MHz (-26dBc)

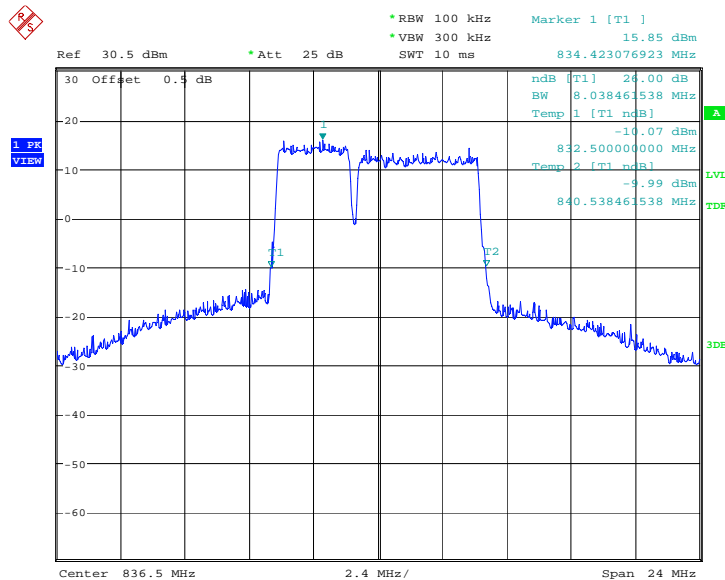
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
834.1	8.077	8.038

LTE CA Band 5B, 3MHz+5MHz Bandwidth, QPSK (-26dBc BW)



Date: 17.MAY.2022 23:54:52

LTE CA Band 5B, 3MHz+5MHz Bandwidth, 16QAM (-26dBc BW)

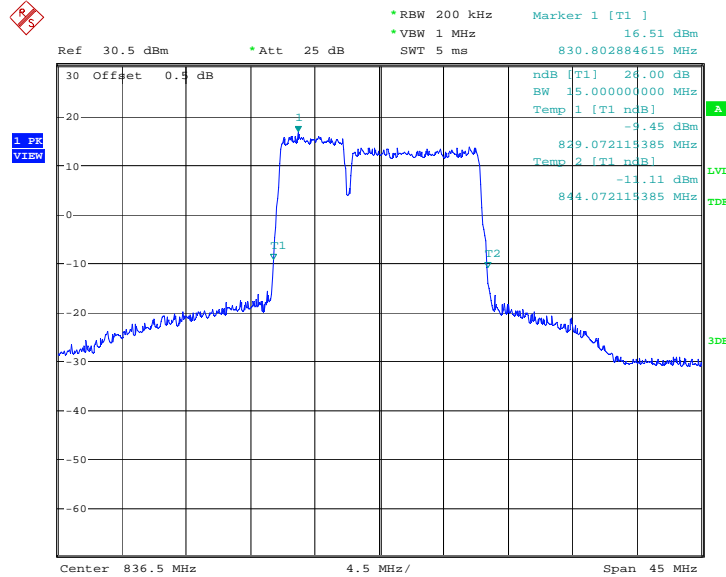


Date: 17.MAY.2022 23:55:14

LTE CA Band 5B, 5MHz+10MHz (-26dBc)

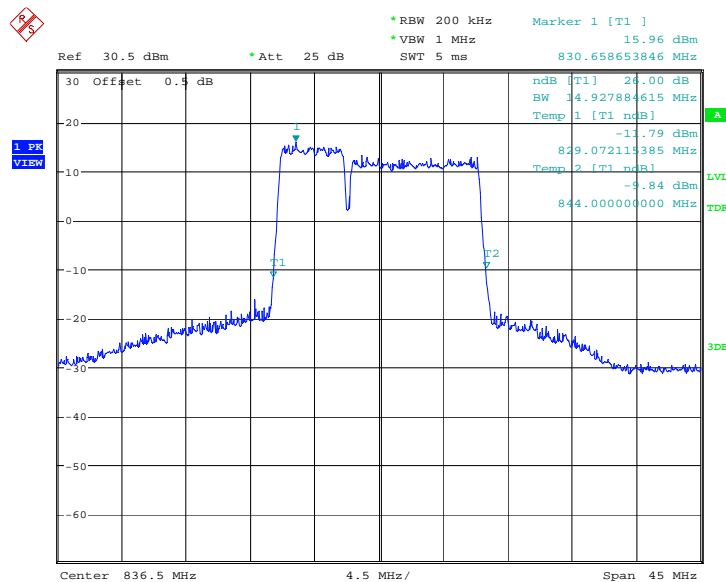
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
831.8	15.000	14.928

LTE CA Band 5B, 5MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 17.MAY.2022 23:57:43

LTE CA Band 5B, 5MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

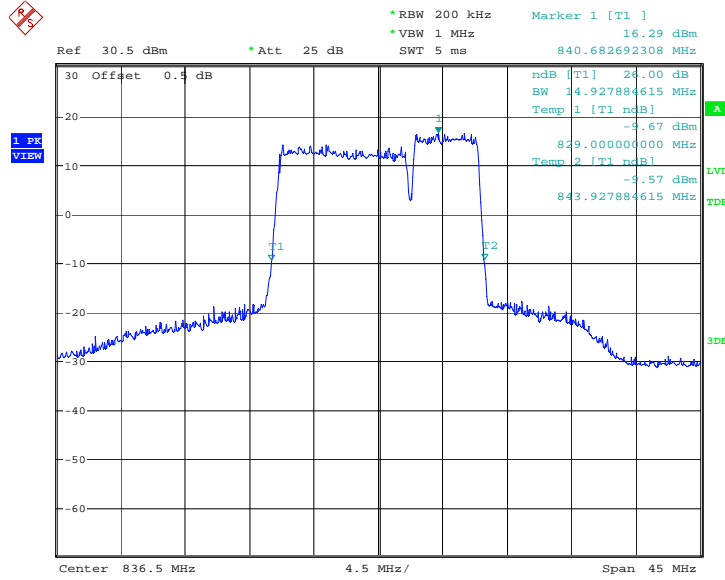


Date: 17.MAY.2022 23:58:05

LTE CA Band 5B, 10MHz+5MHz (-26dBc)

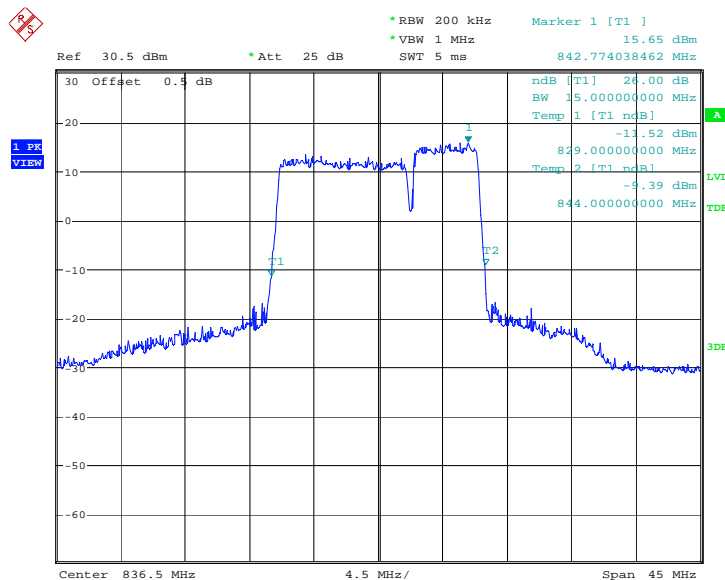
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
834	14.928	15.000

LTE CA Band 5B, 10MHz+5MHz Bandwidth, QPSK (-26dBc BW)



Date: 17.MAY.2022 23:59:09

LTE CA Band 5B, 10MHz+5MHz Bandwidth, 16QAM (-26dBc BW)

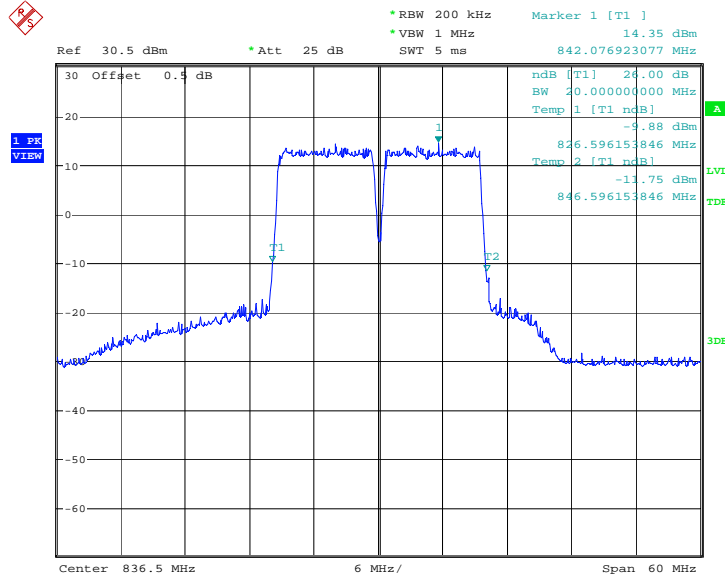


Date: 17.MAY.2022 23:59:31

LTE CA Band 5B, 10MHz+10MHz (-26dBc)

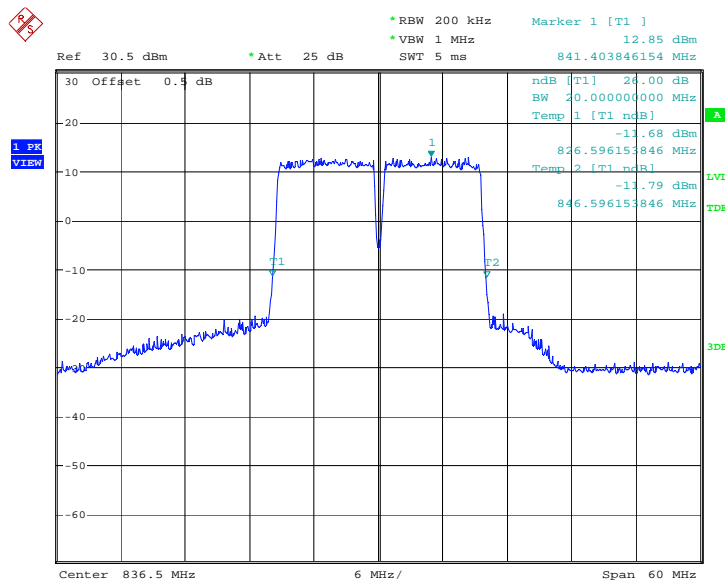
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
831.6	20.000	20.000

LTE CA Band 5B, 10MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 18.MAY.2022 00:00:34

LTE CA Band 5B, 10MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

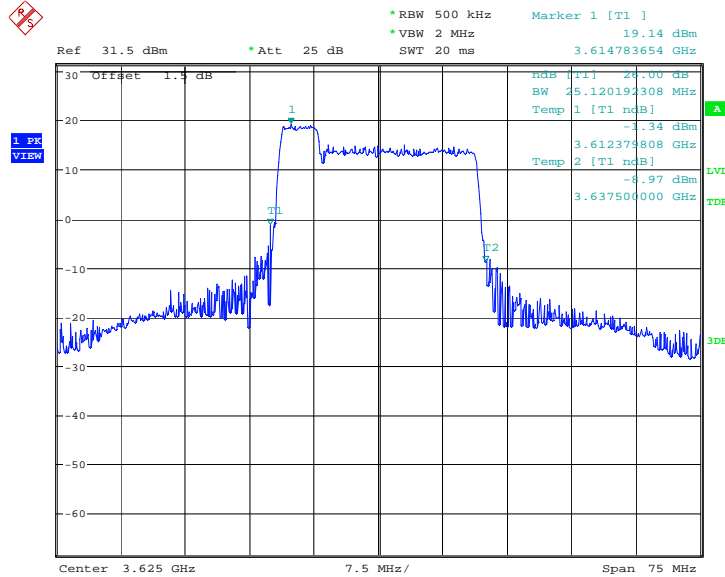


Date: 18.MAY.2022 00:00:56

LTE CA Band 48C, 5MHz+20MHz (-26dBc)

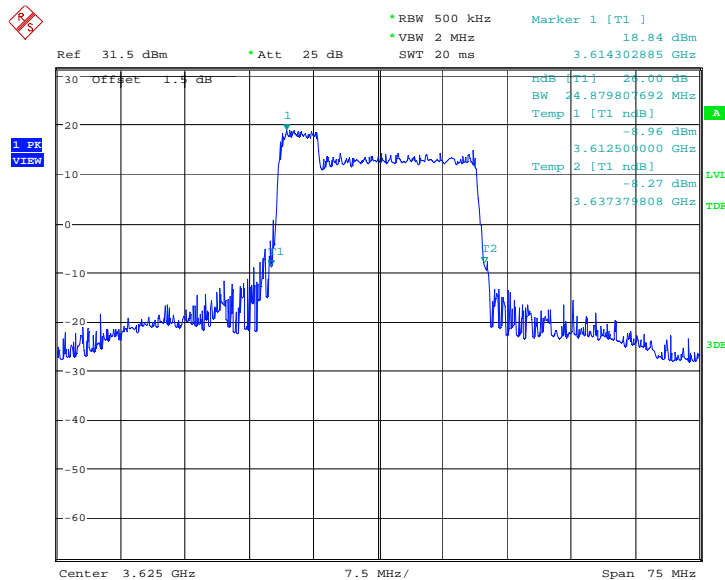
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
3615.8	25.120	24.880

LTE CA Band 48C, 5MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 24.JUN.2022 15:20:24

LTE CA Band 48C, 5MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

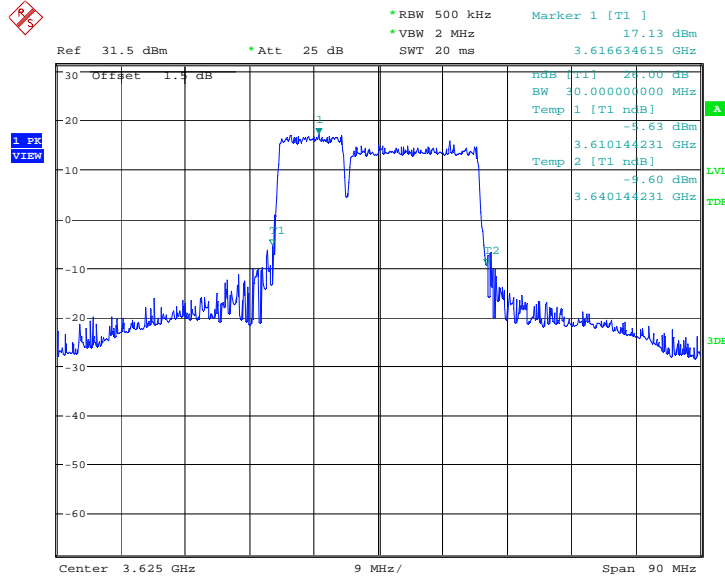


Date: 24.JUN.2022 15:20:46

LTE CA Band 48C, 10MHz+20MHz (-26dBc)

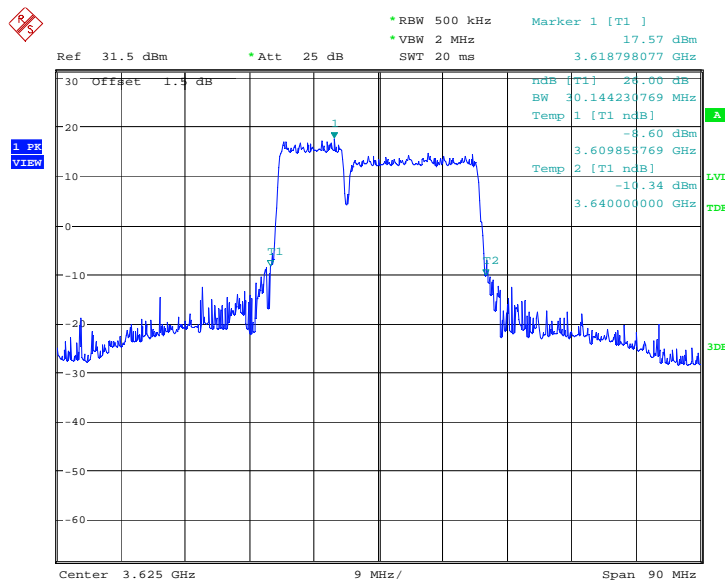
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
3615.6	30.000	30.144

LTE CA Band 48C, 10MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 24.JUN.2022 15:21:47

LTE CA Band 48C, 10MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

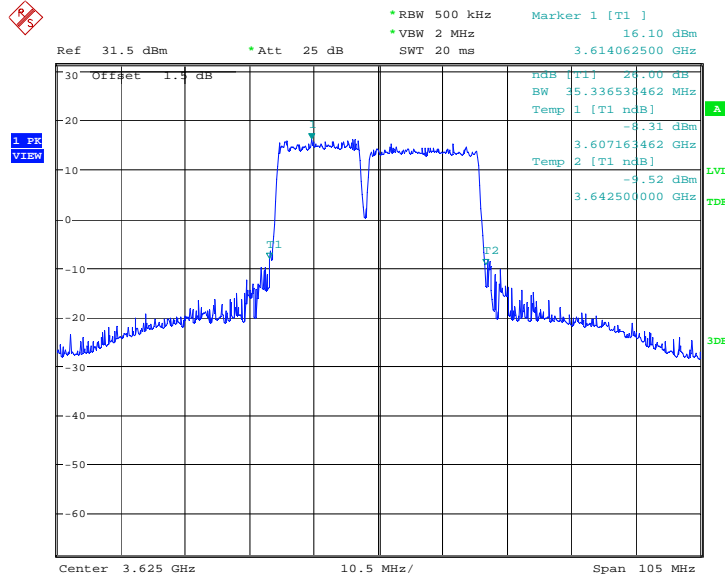


Date: 24.JUN.2022 15:22:08

LTE CA Band 48C, 15MHz+20MHz (-26dBc)

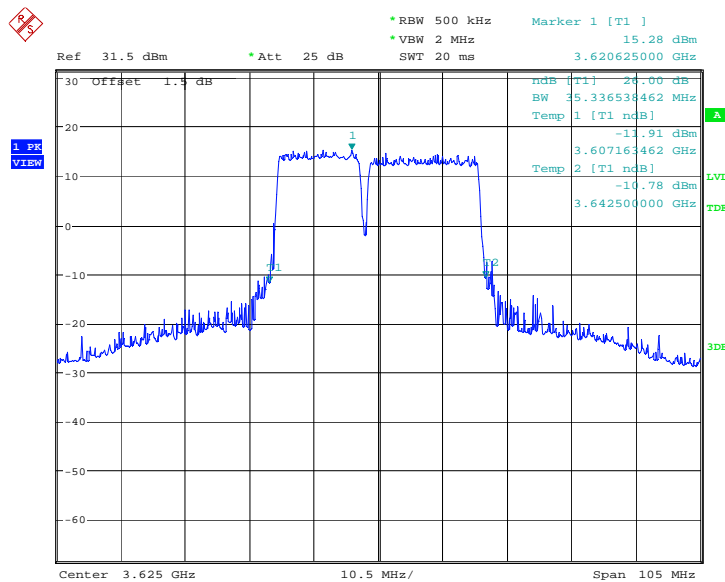
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
3615.3	35.337	35.337

LTE CA Band 48C, 15MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 24.JUN.2022 15:23:09

LTE CA Band 48C, 15MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

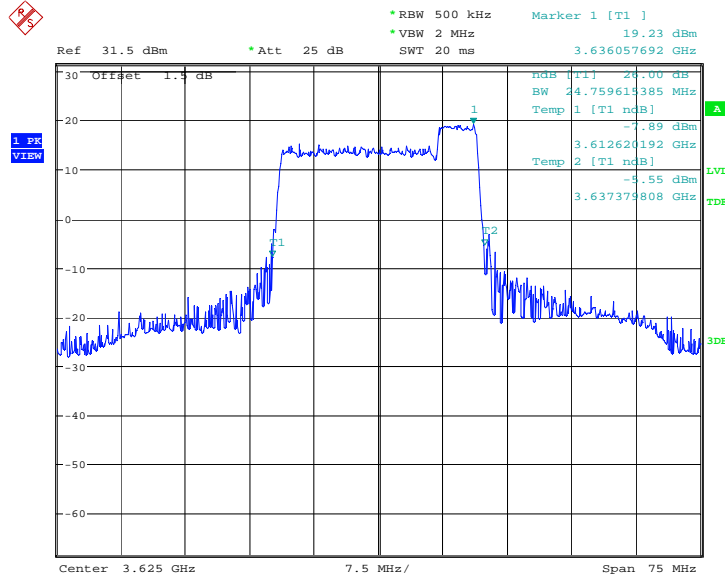


Date: 24.JUN.2022 15:23:31

LTE CA Band 48C, 20MHz+5MHz (-26dBc)

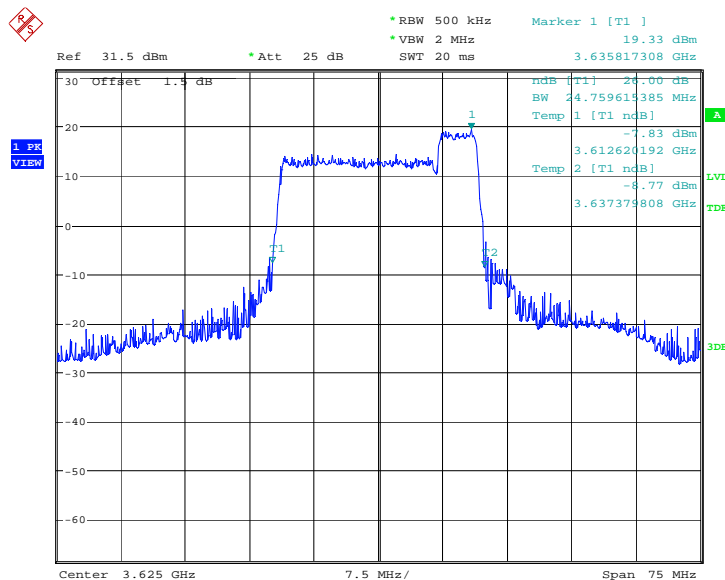
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
3622.5	24.760	24.760

LTE CA Band 48C, 20MHz+5MHz Bandwidth, QPSK (-26dBc BW)



Date: 24.JUN.2022 15:24:35

LTE CA Band 48C, 20MHz+5MHz Bandwidth, 16QAM (-26dBc BW)

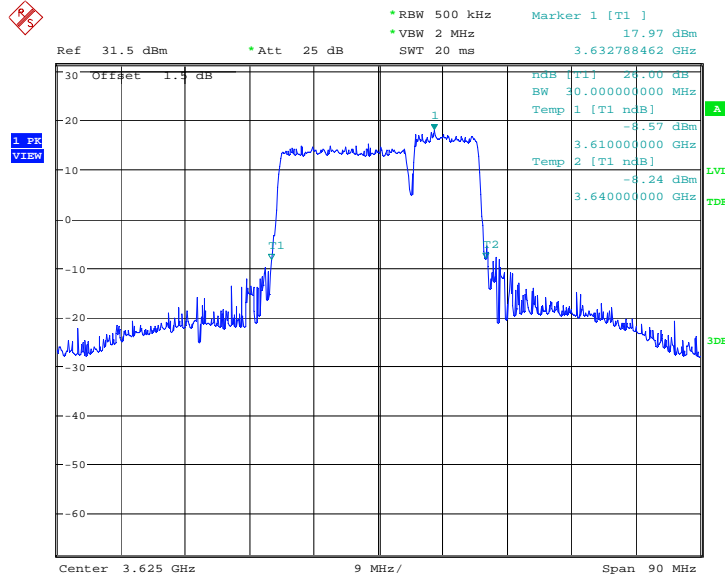


Date: 24.JUN.2022 15:24:56

LTE CA Band 48C, 20MHz+10MHz (-26dBc)

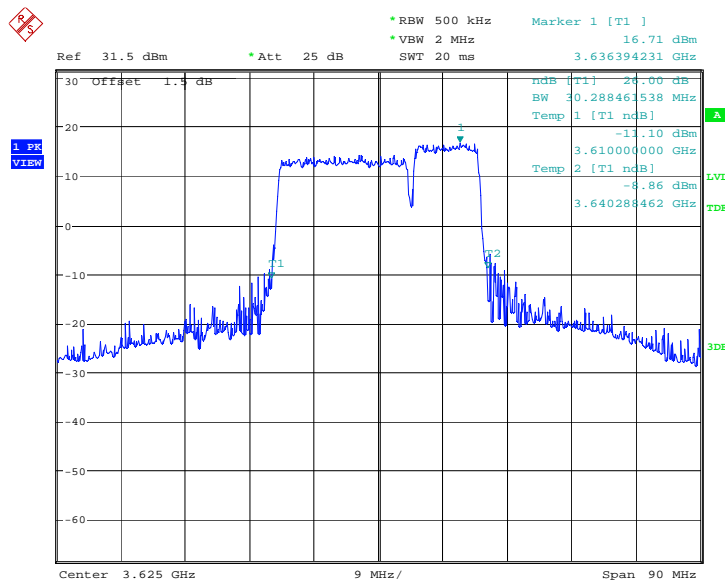
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
3620.1	30.000	30.288

LTE CA Band 48C, 20MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 24.JUN.2022 15:25:48

LTE CA Band 48C, 20MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

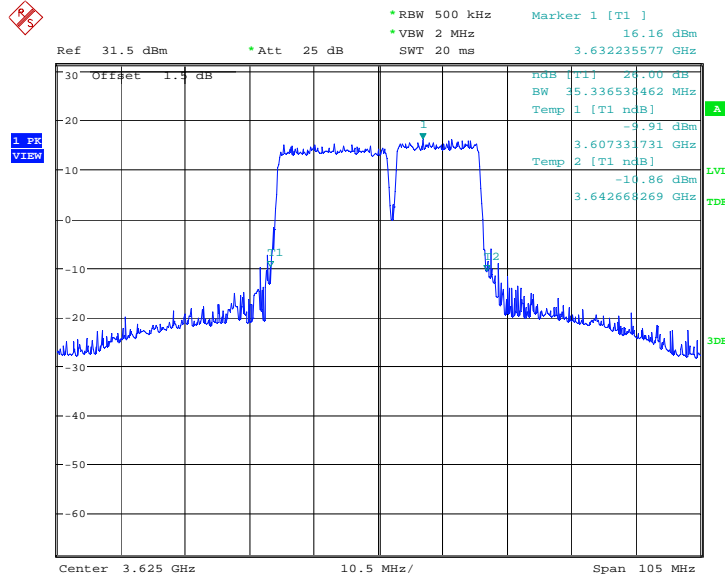


Date: 24.JUN.2022 15:26:10

LTE CA Band 48C, 20MHz+15MHz (-26dBc)

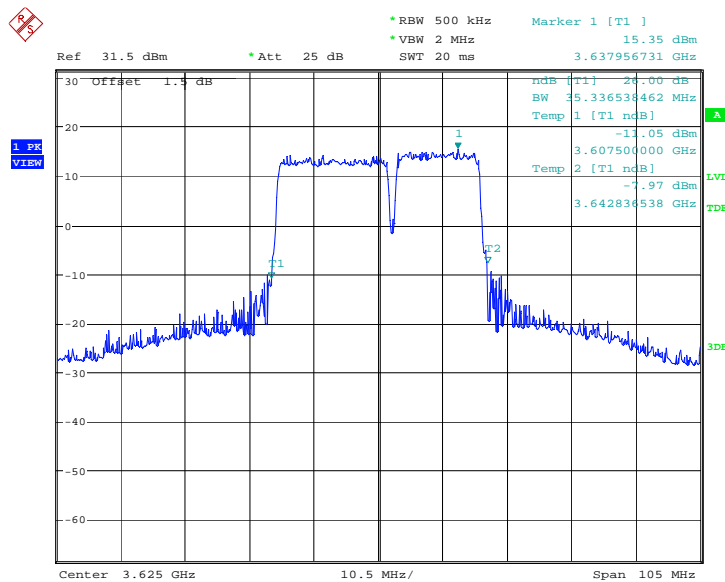
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
3617.6	35.337	35.337

LTE CA Band 48C, 20MHz+15MHz Bandwidth, QPSK (-26dBc BW)



Date: 24.JUN.2022 15:27:01

LTE CA Band 48C, 20MHz+15MHz Bandwidth, 16QAM (-26dBc BW)

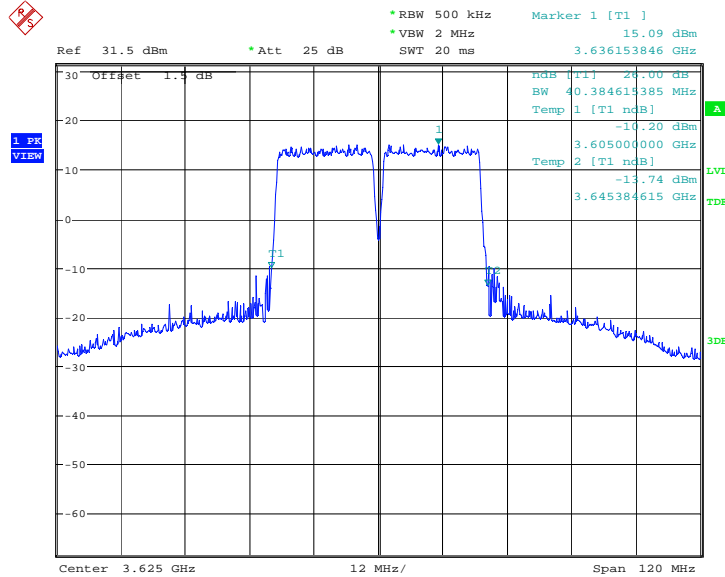


Date: 24.JUN.2022 15:27:23

LTE CA Band 48C, 20MHz+20MHz (-26dBc)

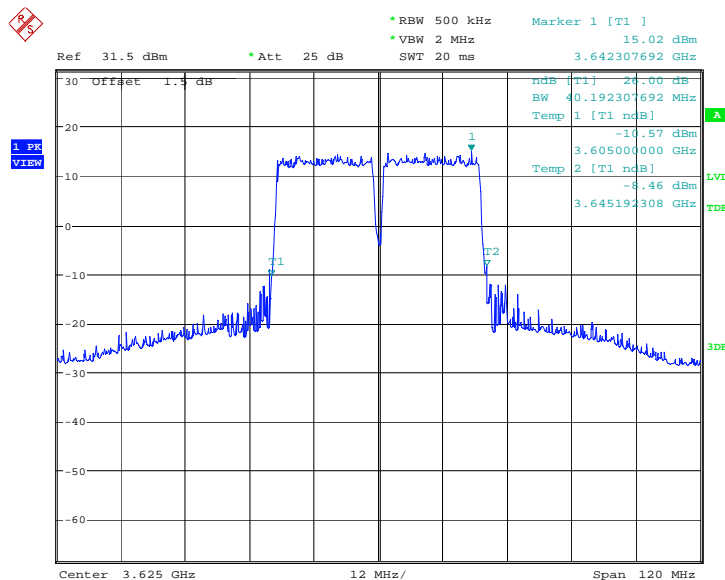
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
3615.1	40.385	40.192

LTE CA Band 48C, 20MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 24.JUN.2022 15:28:14

LTE CA Band 48C, 20MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

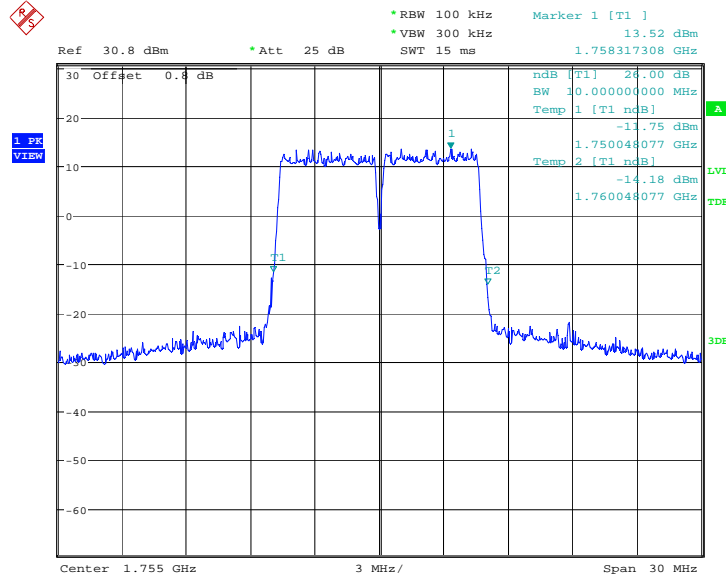


Date: 24.JUN.2022 15:28:36

LTE CA Band 66B, 5MHz+5MHz (-26dBc)

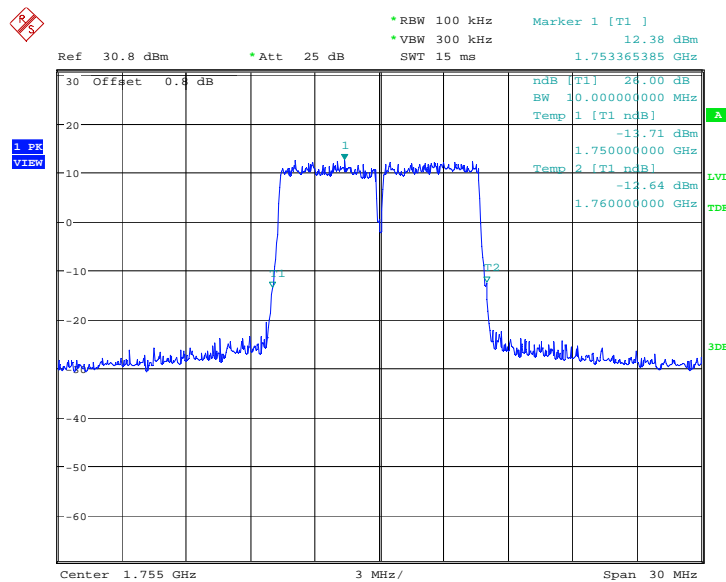
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1752.6	10.000	10.000

LTE CA Band 66B, 5MHz+5MHz Bandwidth, QPSK (-26dBc BW)



Date: 18.MAY.2022 00:02:09

LTE CA Band 66B, 5MHz+5MHz Bandwidth, 16QAM (-26dBc BW)

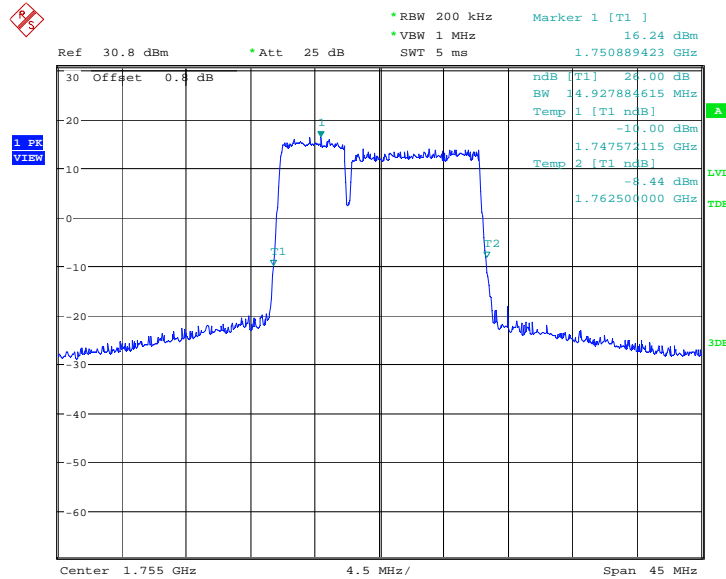


Date: 18.MAY.2022 00:02:30

LTE CA Band 66B, 5MHz+10MHz (-26dBc)

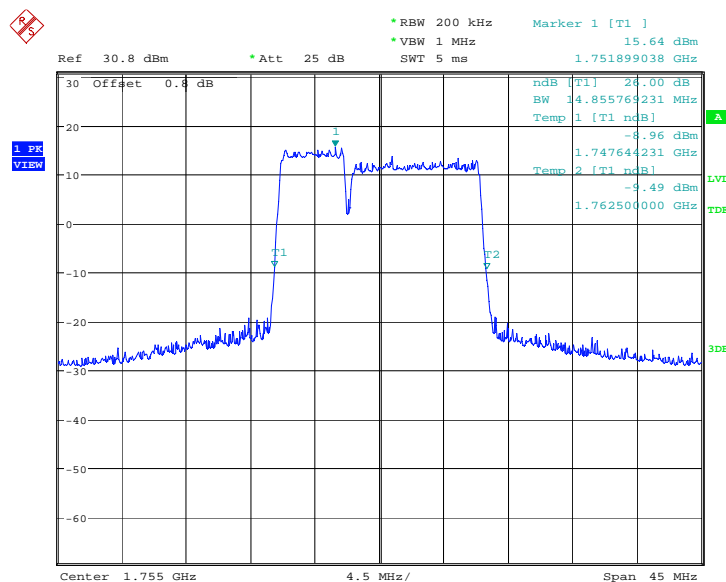
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1750.3	14.928	14.856

LTE CA Band 66B, 5MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 18.MAY.2022 00:03:34

LTE CA Band 66B, 5MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

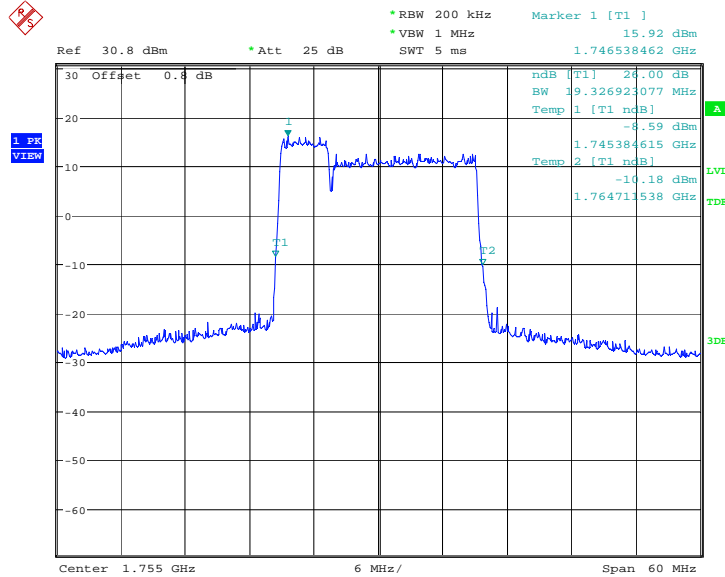


Date: 18.MAY.2022 00:03:56

LTE CA Band 66B, 5MHz+15MHz (-26dBc)

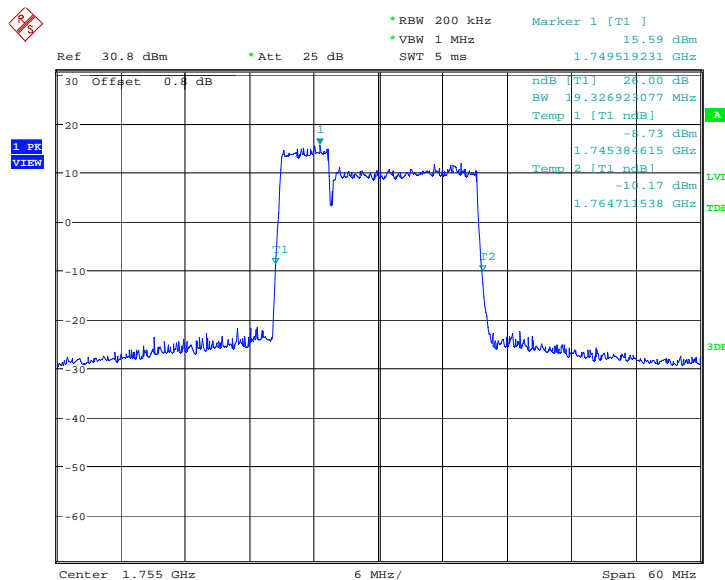
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1748.1	19.327	19.327

LTE CA Band 66B, 5MHz+15MHz Bandwidth, QPSK (-26dBc BW)



Date: 18.MAY.2022 00:04:59

LTE CA Band 66B, 5MHz+15MHz Bandwidth, 16QAM (-26dBc BW)

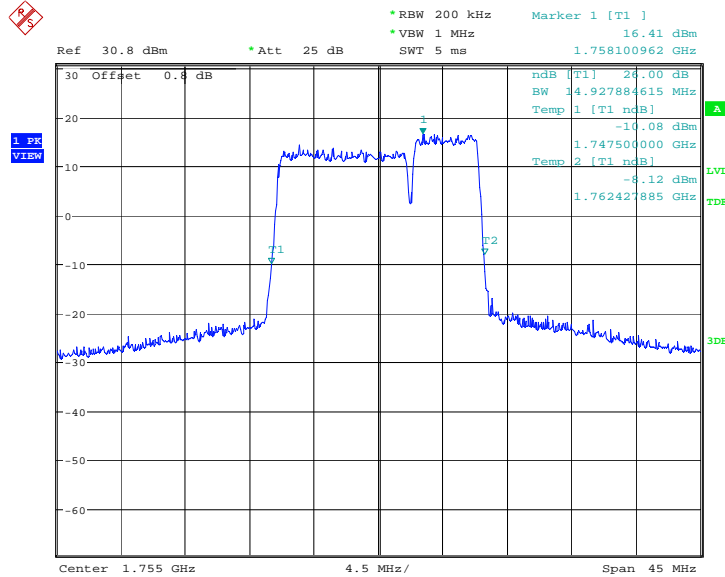


Date: 18.MAY.2022 00:05:21

LTE CA Band 66B, 10MHz+5MHz (-26dBc)

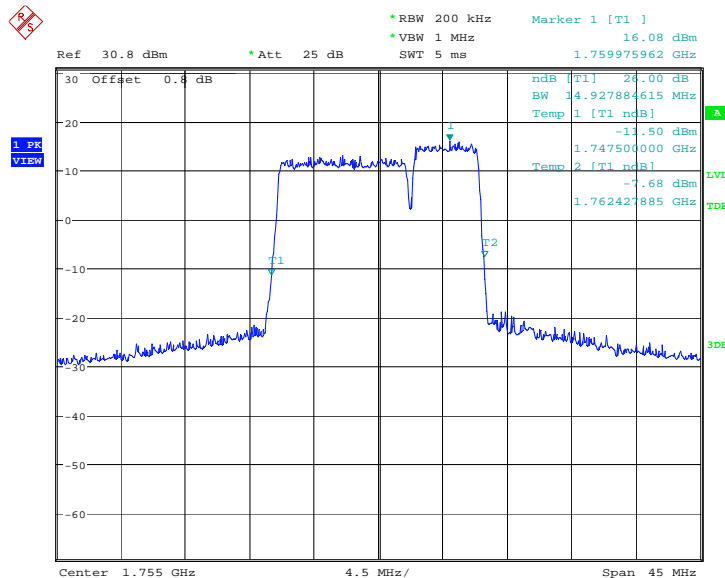
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1752.5	14.928	14.928

LTE CA Band 66B, 10MHz+5MHz Bandwidth, QPSK (-26dBc BW)



Date: 18.MAY.2022 00:06:25

LTE CA Band 66B, 10MHz+5MHz Bandwidth, 16QAM (-26dBc BW)

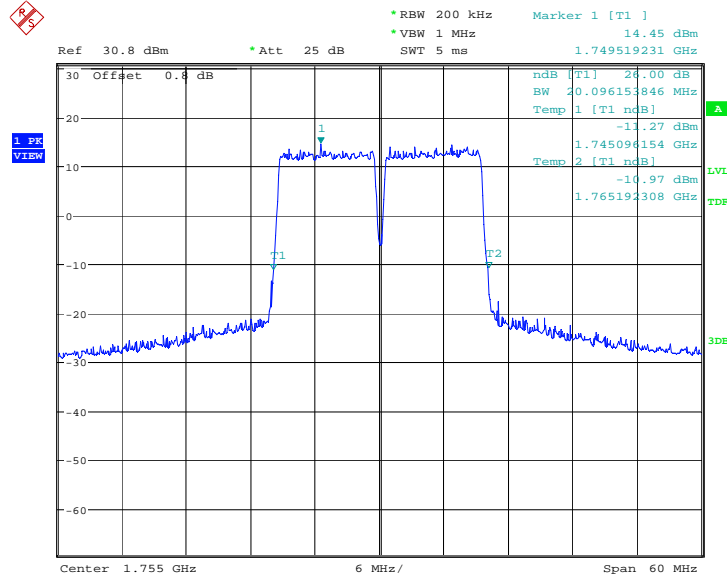


Date: 18.MAY.2022 00:06:47

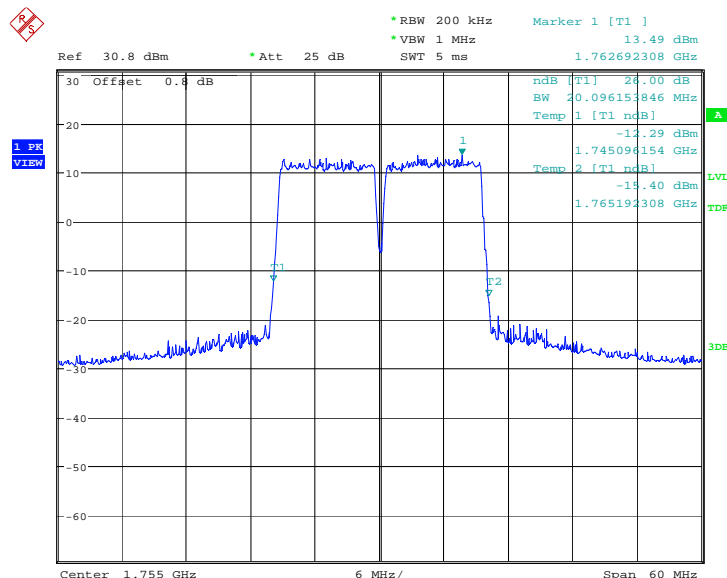
LTE CA Band 66B, 10MHz+10MHz (-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1750.1	20.096	20.096

LTE CA Band 66B, 10MHz+10MHz Bandwidth, QPSK (-26dBc BW)



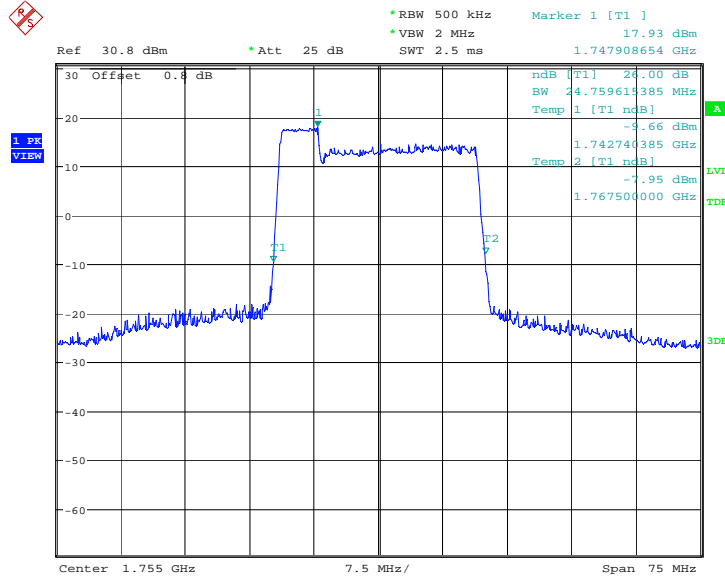
LTE CA Band 66B, 10MHz+10MHz Bandwidth, 16QAM (-26dBc BW)



LTE CA Band 66C, 5MHz+20MHz (-26dBc)

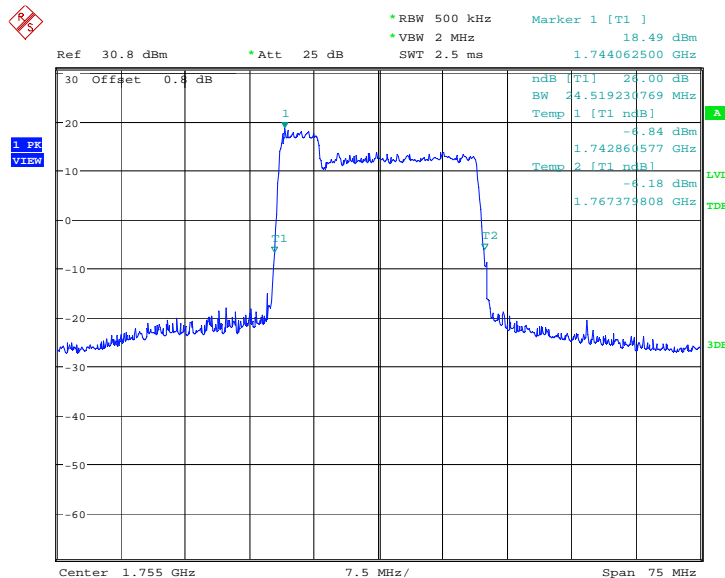
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1745.8	24.760	24.519

LTE CA Band 66C, 5MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 18.MAY.2022 00:10:42

LTE CA Band 66C, 5MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

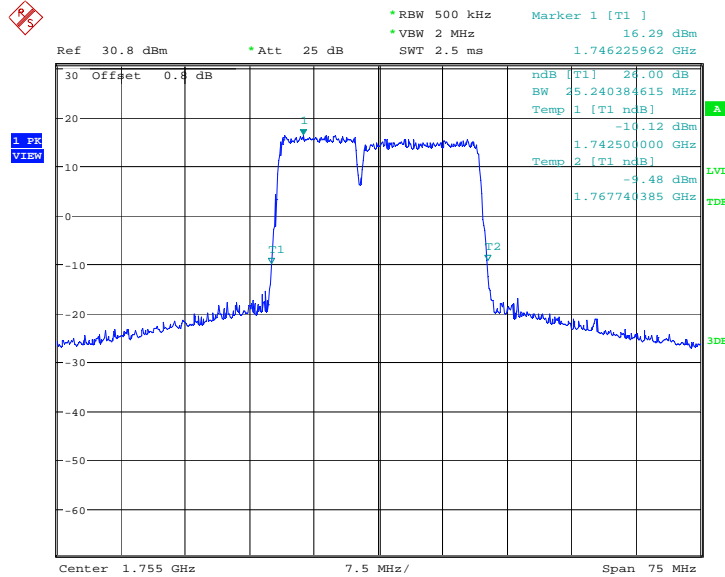


Date: 18.MAY.2022 00:11:07

LTE CA Band 66C, 10MHz+15MHz (-26dBc)

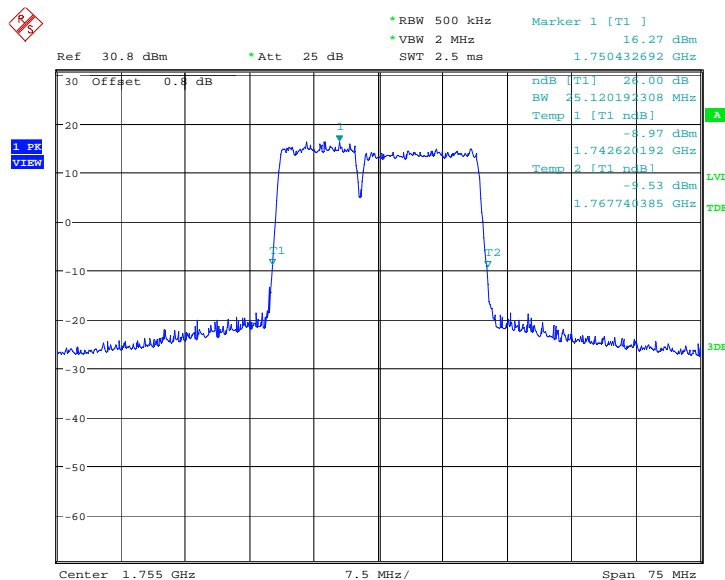
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1747.9	25.240	25.120

LTE CA Band 66C, 10MHz+15MHz Bandwidth, QPSK (-26dBc BW)



Date: 18.MAY.2022 00:12:11

LTE CA Band 66C, 10MHz+15MHz Bandwidth, 16QAM (-26dBc BW)

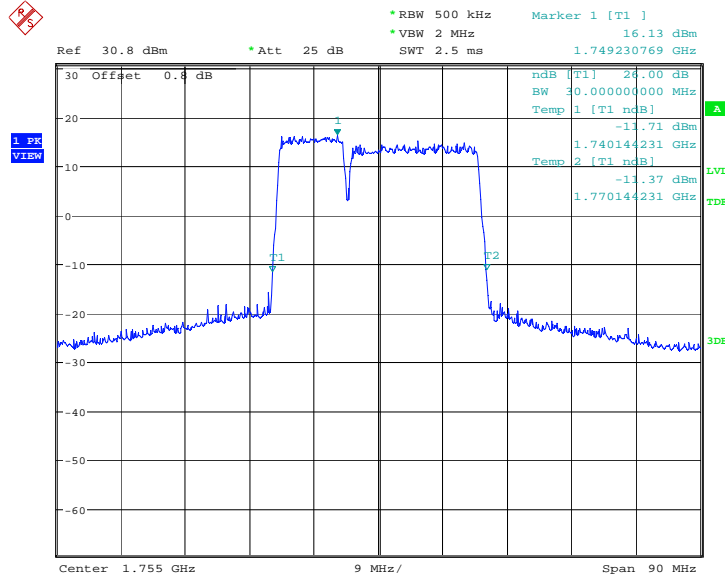


Date: 18.MAY.2022 00:12:33

LTE CA Band 66C, 10MHz+20MHz (-26dBc)

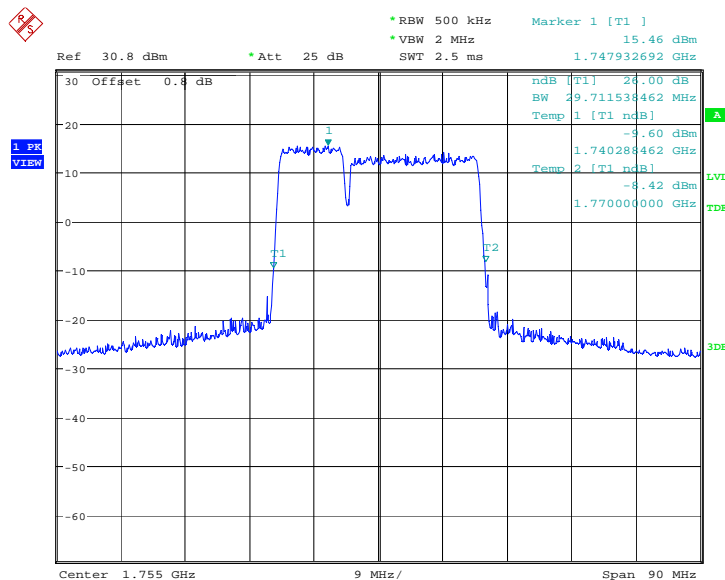
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1745.6	30.000	29.712

LTE CA Band 66C, 10MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 18.MAY.2022 00:13:37

LTE CA Band 66C, 10MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

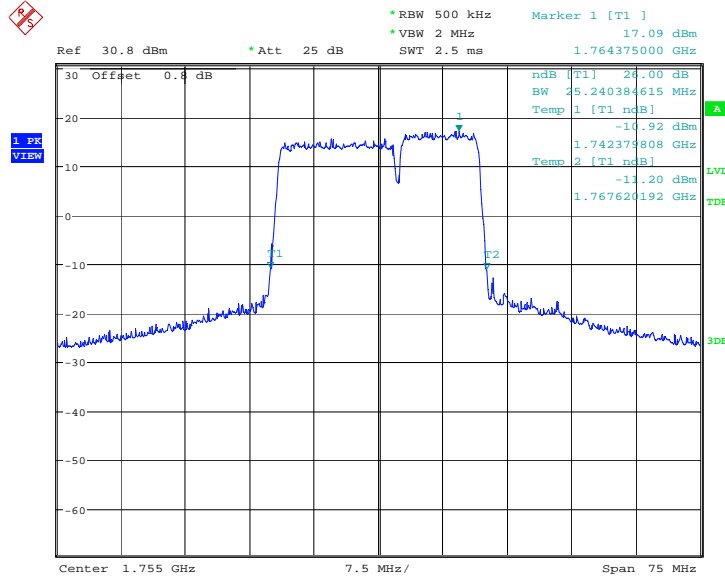


Date: 18.MAY.2022 00:13:58

LTE CA Band 66C, 15MHz+10MHz (-26dBc)

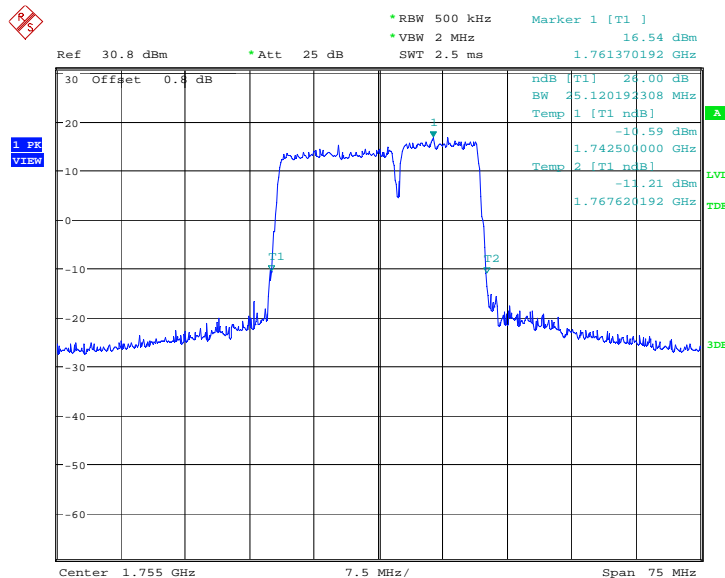
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1750.1	25.240	25.120

LTE CA Band 66C, 15MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 18.MAY.2022 00:15:03

LTE CA Band 66C, 15MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

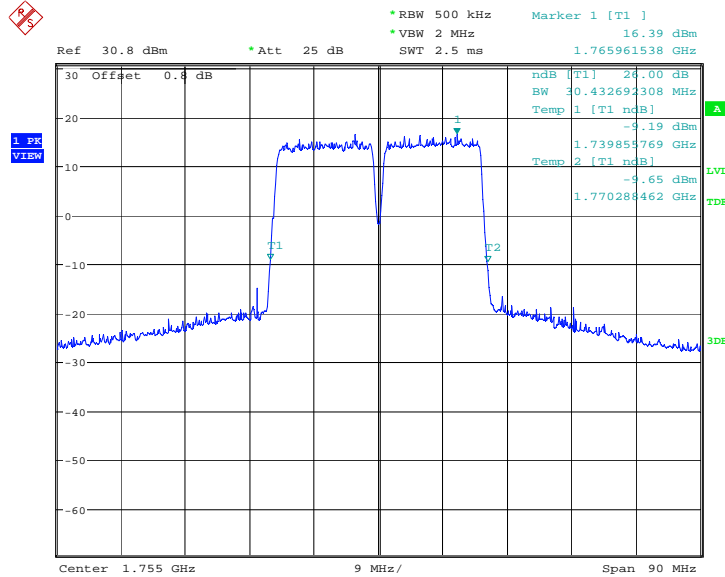


Date: 18.MAY.2022 00:15:25

LTE CA Band 66C, 15MHz+15MHz (-26dBc)

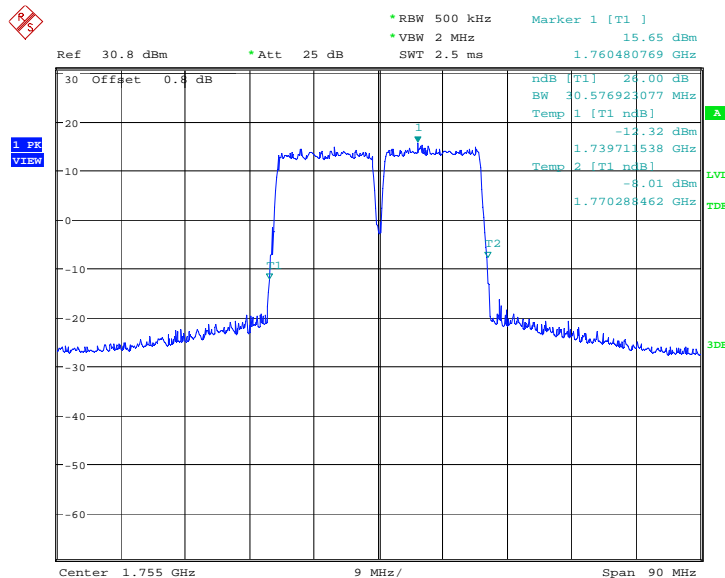
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1747.5	30.433	30.577

LTE CA Band 66C, 15MHz+15MHz Bandwidth, QPSK (-26dBc BW)



Date: 18.MAY.2022 00:16:28

LTE CA Band 66C, 15MHz+15MHz Bandwidth, 16QAM (-26dBc BW)

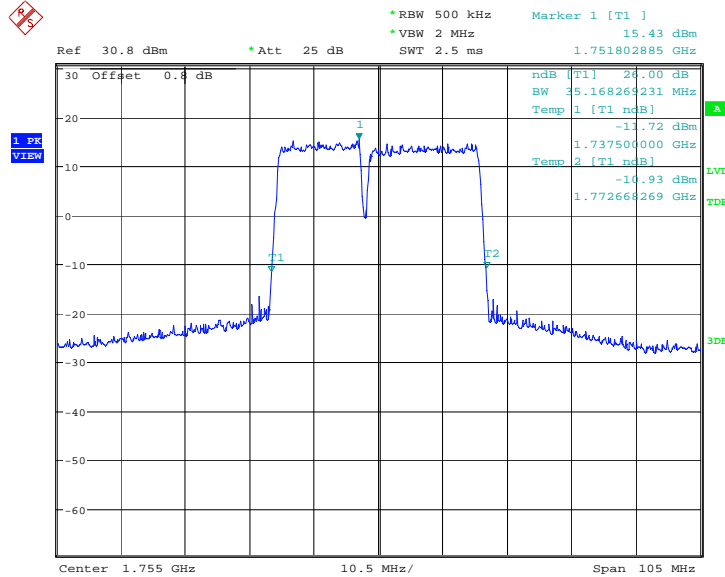


Date: 18.MAY.2022 00:16:50

LTE CA Band 66C, 15MHz+20MHz (-26dBc)

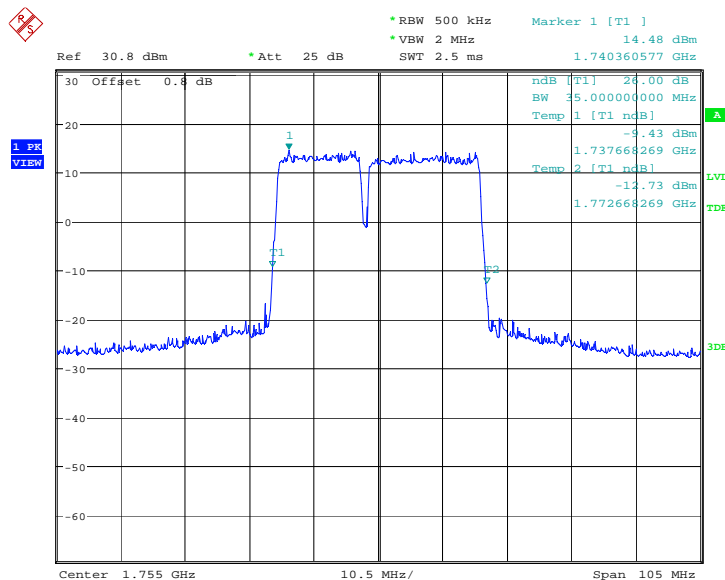
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1745.3	35.168	35.000

LTE CA Band 66C, 15MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 18.MAY.2022 00:17:53

LTE CA Band 66C, 15MHz+20MHz Bandwidth, 16QAM (-26dBc BW)

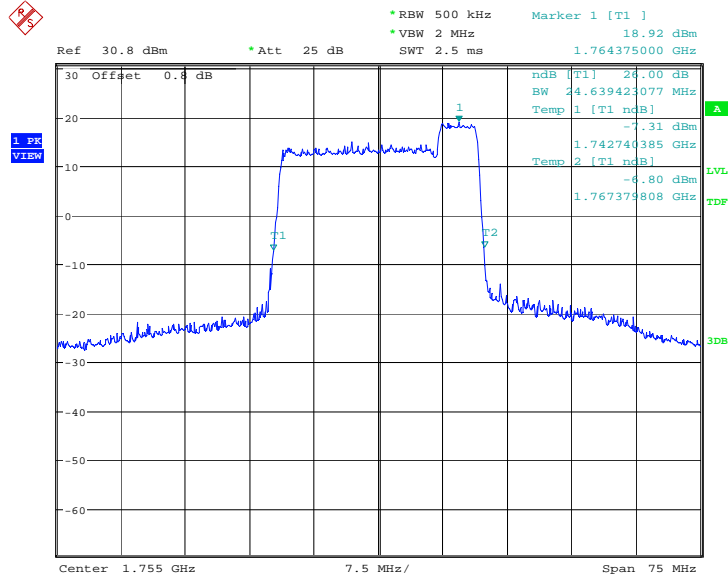


Date: 18.MAY.2022 00:18:18

LTE CA Band 66C, 20MHz+5MHz (-26dBc)

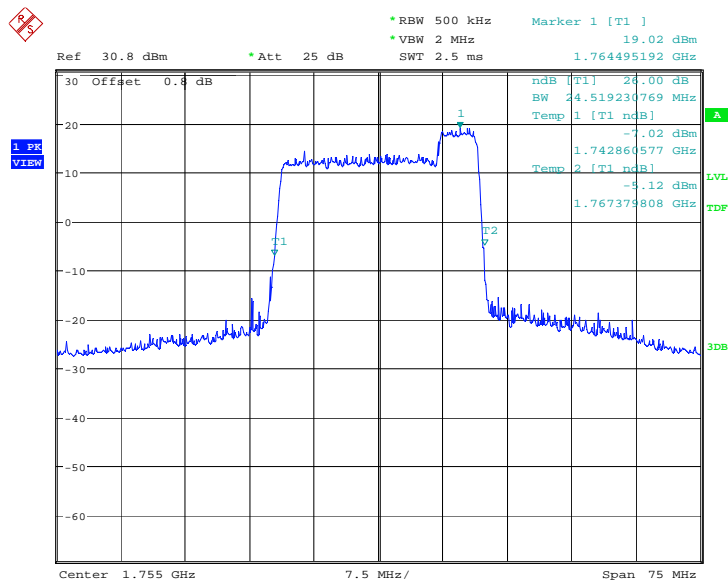
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1752.5	24.639	24.519

LTE CA Band 66C, 20MHz+5MHz Bandwidth, QPSK (-26dBc BW)



Date: 18.MAY.2022 00:19:22

LTE CA Band 66C, 20MHz+5MHz Bandwidth, 16QAM (-26dBc BW)

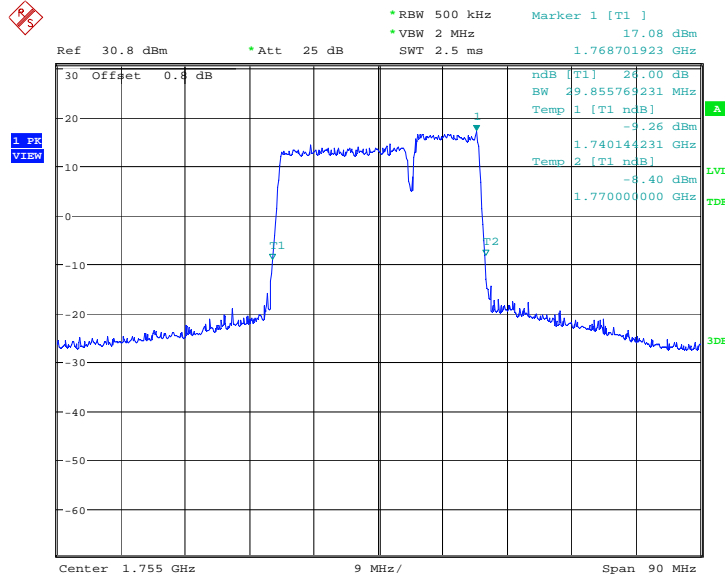


Date: 18.MAY.2022 00:19:44

LTE CA Band 66C, 20MHz+10MHz (-26dBc)

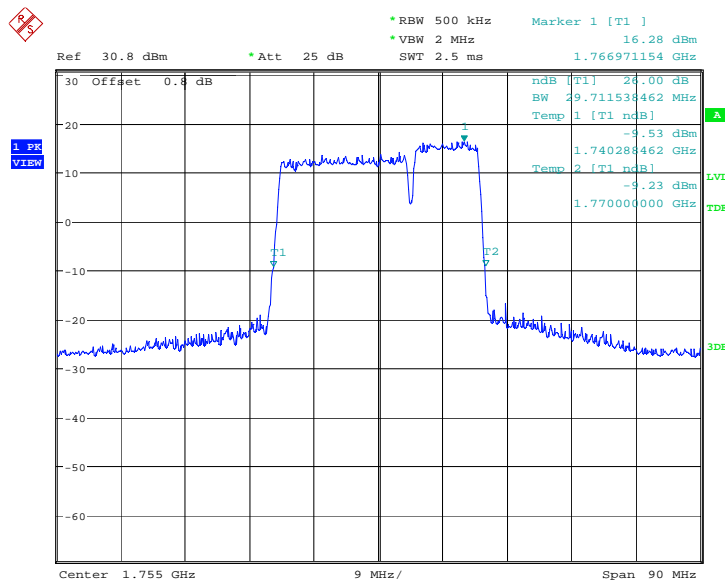
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1750.1	29.856	29.712

LTE CA Band 66C, 20MHz+10MHz Bandwidth, QPSK (-26dBc BW)



Date: 18.MAY.2022 00:20:48

LTE CA Band 66C, 20MHz+10MHz Bandwidth, 16QAM (-26dBc BW)

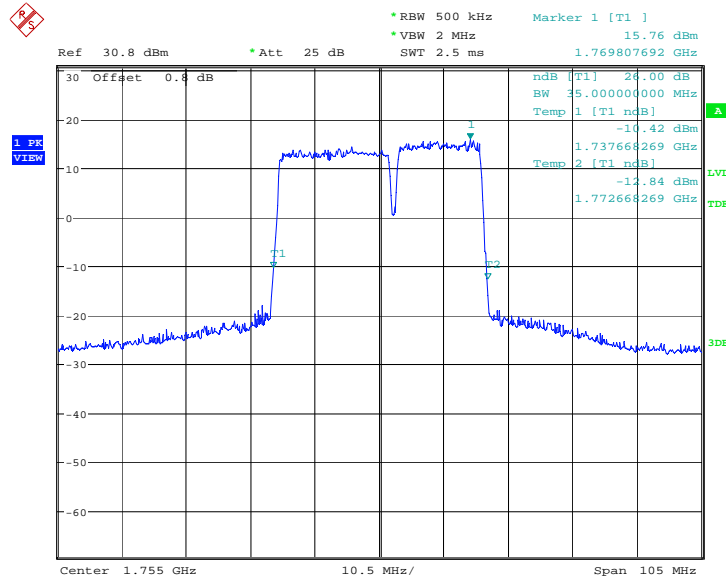


Date: 18.MAY.2022 00:21:09

LTE CA Band 66C, 20MHz+15MHz (-26dBc)

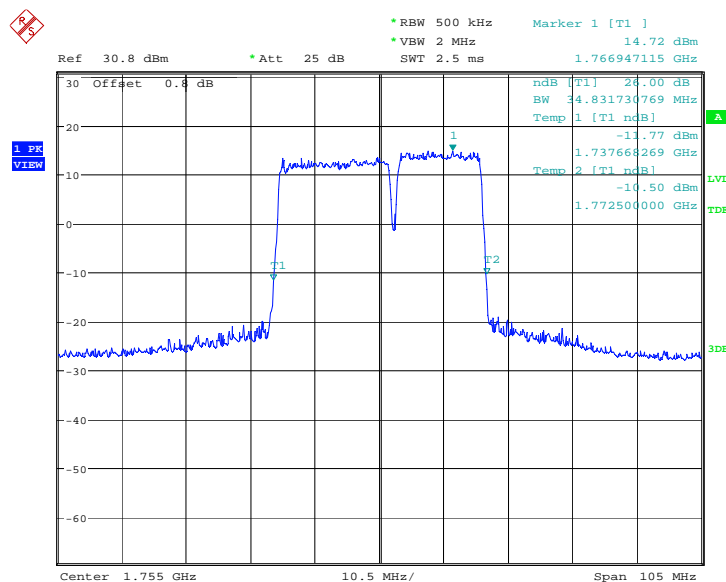
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1747.6	35.000	34.832

LTE CA Band 66C, 20MHz+15MHz Bandwidth, QPSK (-26dBc BW)



Date: 18.MAY.2022 00:22:13

LTE CA Band 66C, 20MHz+15MHz Bandwidth, 16QAM (-26dBc BW)

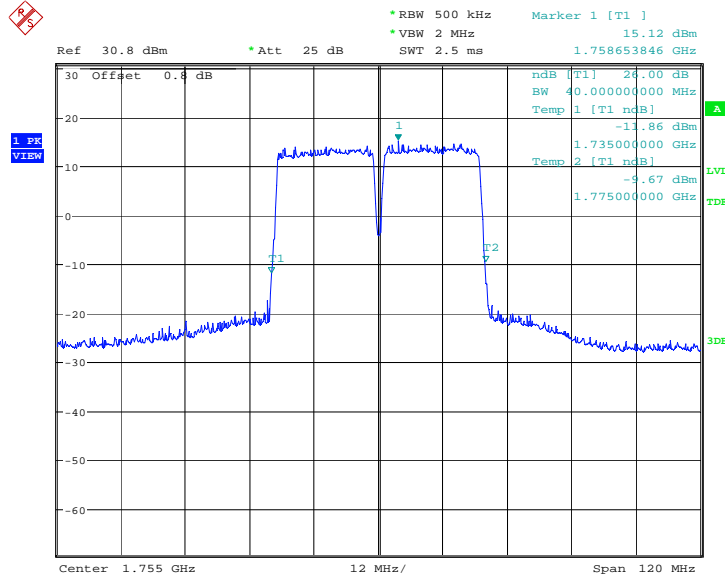


Date: 18.MAY.2022 00:22:35

LTE CA Band 66C, 20MHz+20MHz (-26dBc)

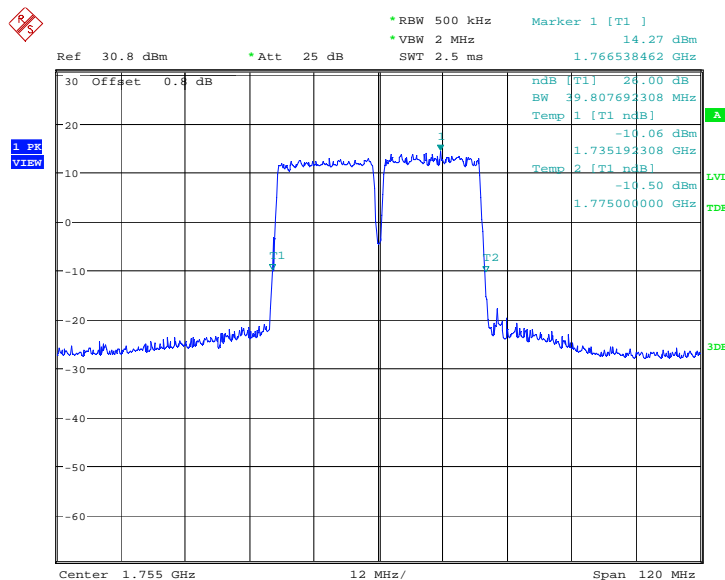
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1745.1	40.000	39.808

LTE CA Band 66C, 20MHz+20MHz Bandwidth, QPSK (-26dBc BW)



Date: 18.MAY.2022 00:23:38

LTE CA Band 66C, 20MHz+20MHz Bandwidth, 16QAM (-26dBc BW)



Date: 18.MAY.2022 00:24:00

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 96.41(e) states for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.



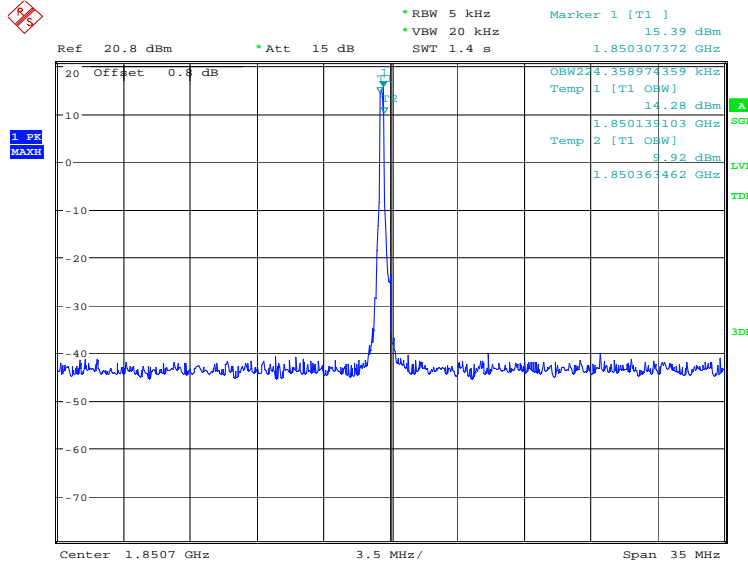
The spectrum analyzer readings are corrected by $[10 \log (1/\text{duty cycle})]$ for the non-continuous transmitting scenario.

A.6.2 Measurement result

Only the worst case result is given below

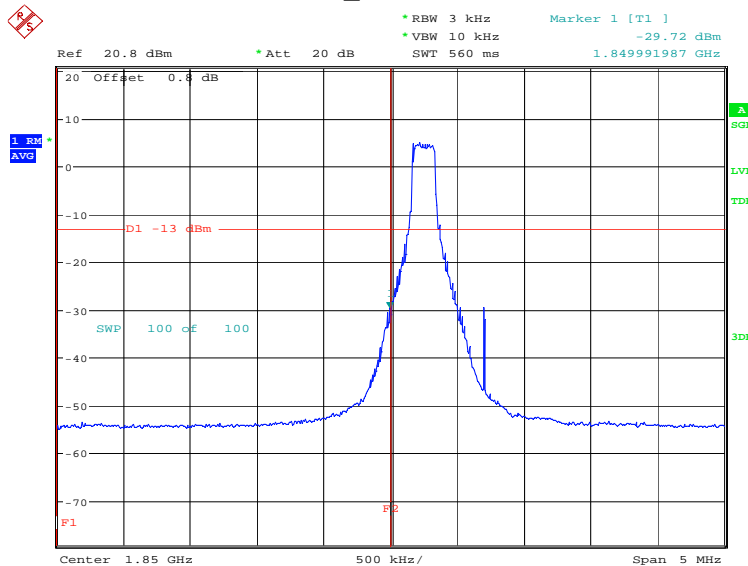
LTE band 2

OBW: 1RB-low_offset



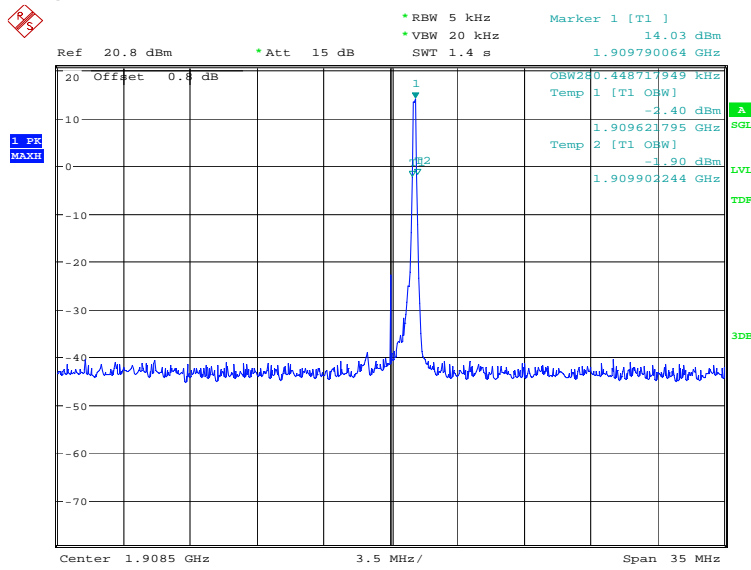
Date: 29.MAY.2022 10:58:42

LOW BAND EDGE BLOCK-1RB-low_offset



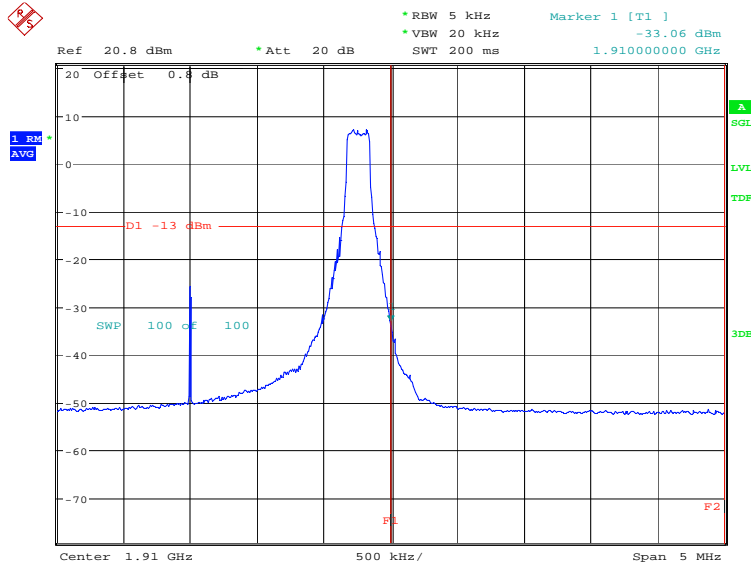
Date: 29.MAY.2022 10:59:56

OBW: 1RB-high_offset



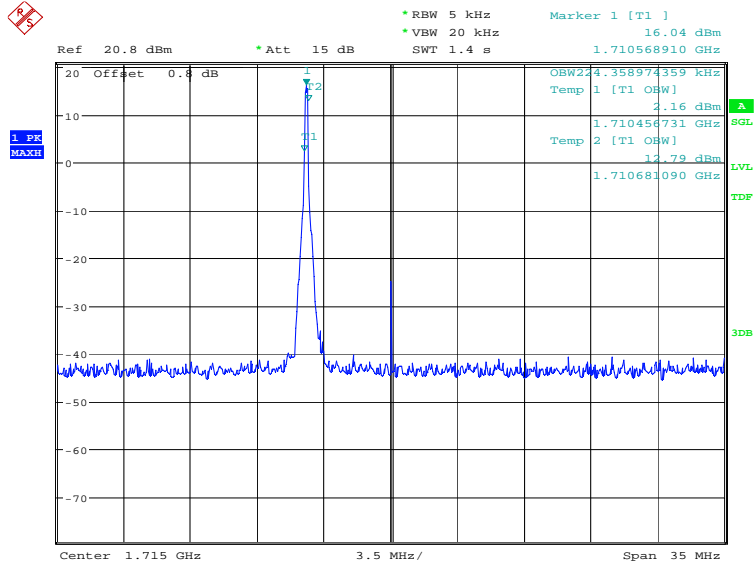
Date: 29.MAY.2022 11:00:36

HIGH BAND EDGE BLOCK-1RB-high_offset



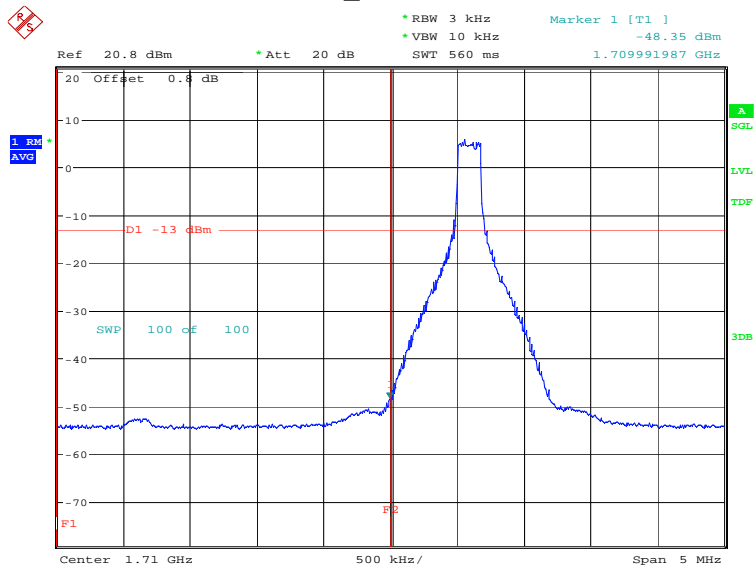
Date: 29.MAY.2022 11:01:50

LTE band 4
OBW: 1RB-low_offset



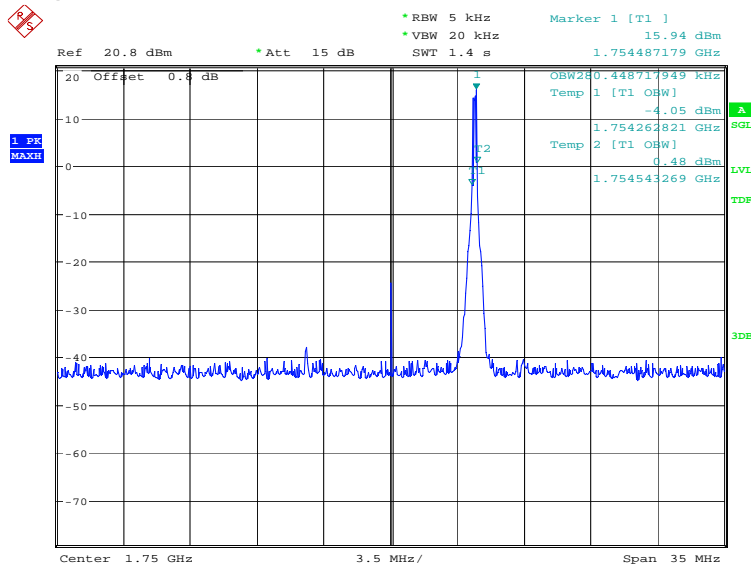
Date: 7.JUN.2022 09:44:05

LOW BAND EDGE BLOCK-1RB-low_offset



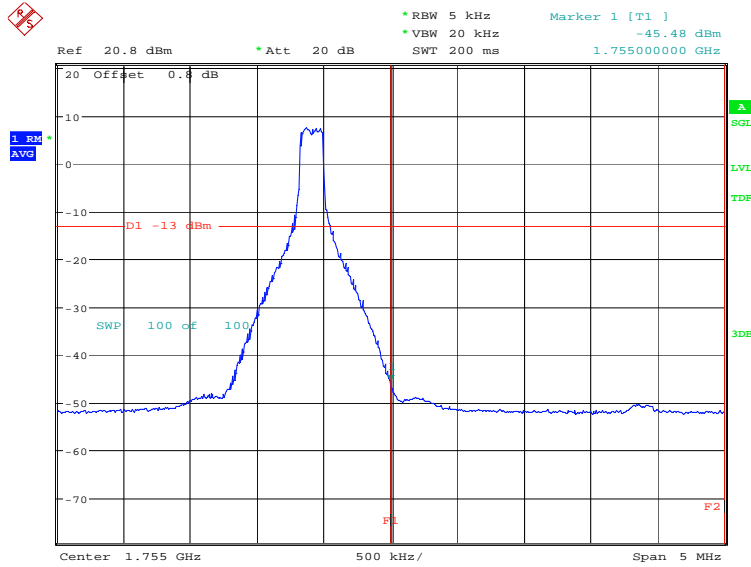
Date: 7.JUN.2022 09:45:19

OBW: 1RB-high_offset



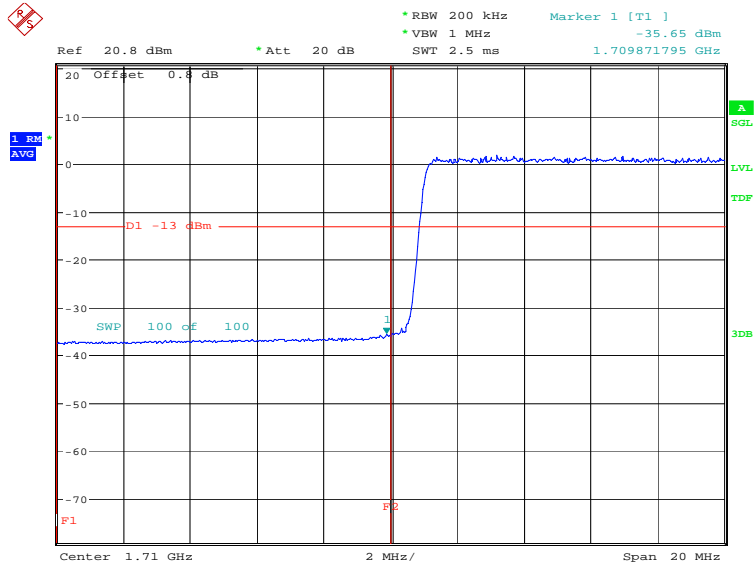
Date: 7.JUN.2022 09:45:54

HIGH BAND EDGE BLOCK-1RB-high_offset



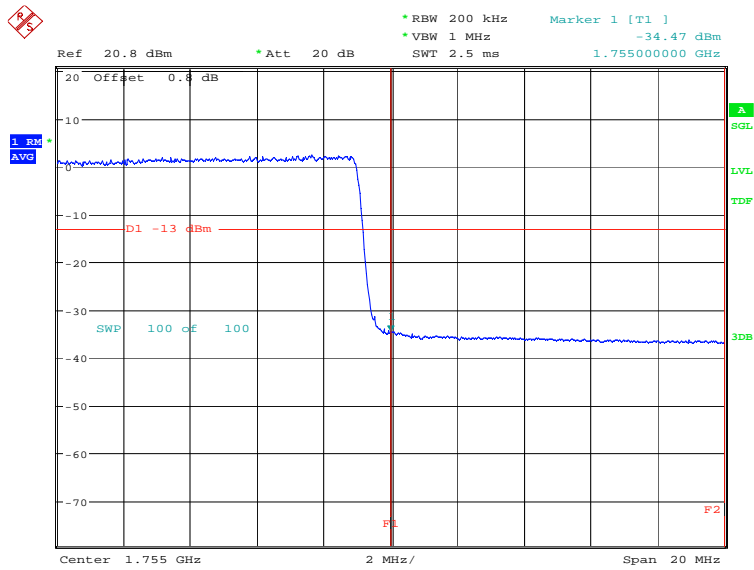
Date: 7.JUN.2022 09:47:08

LOW BAND EDGE BLOCK-20MHz-100%RB



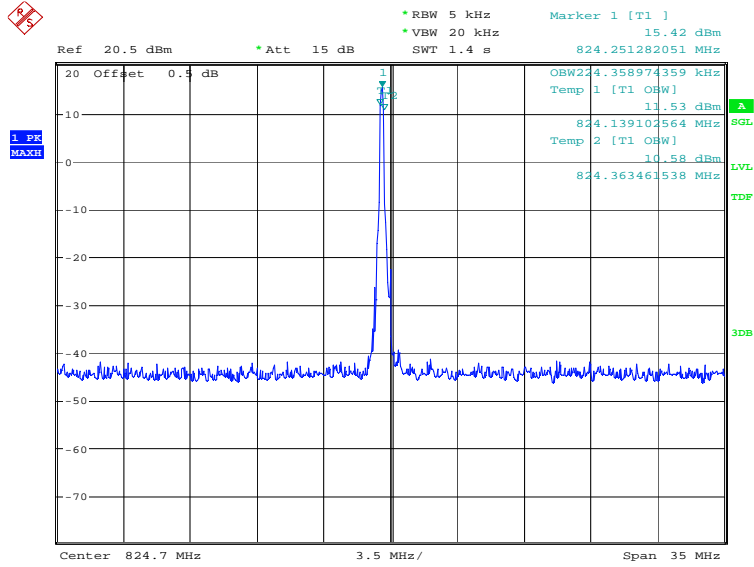
Date: 29.MAY.2022 10:47:26

HIGH BAND EDGE BLOCK-20MHz-100%RB



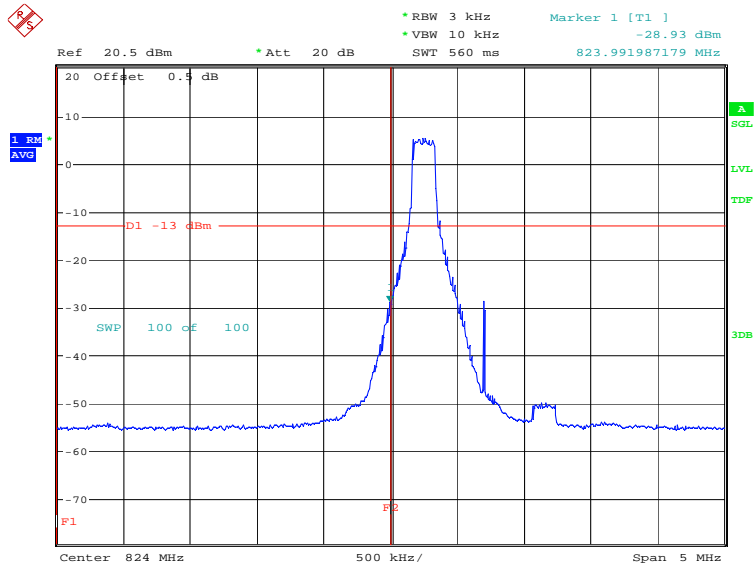
Date: 29.MAY.2022 10:48:56

LTE band 5
OBW: 1RB-low_offset



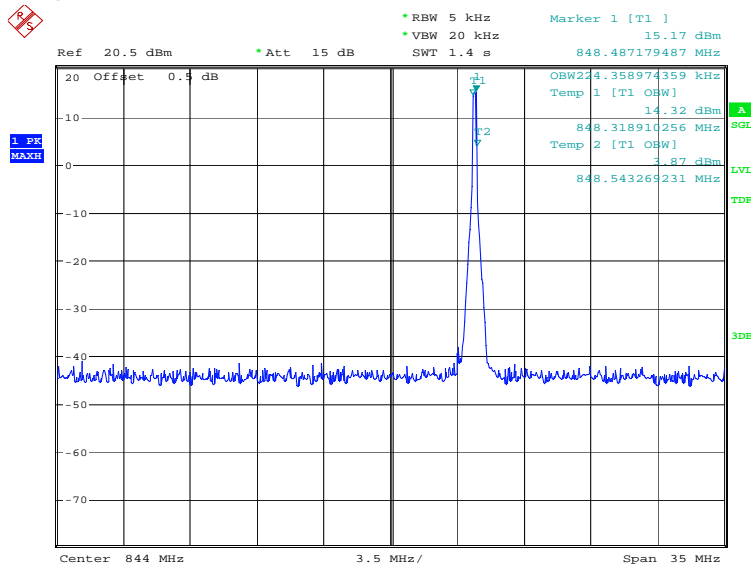
Date: 29.MAY.2022 11:03:14

LOW BAND EDGE BLOCK-1RB-low_offset



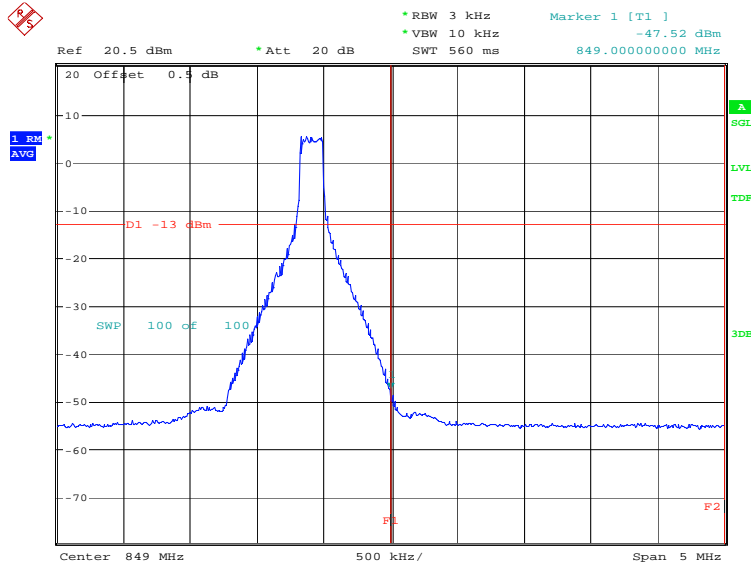
Date: 29.MAY.2022 11:04:27

OBW: 1RB-high_offset



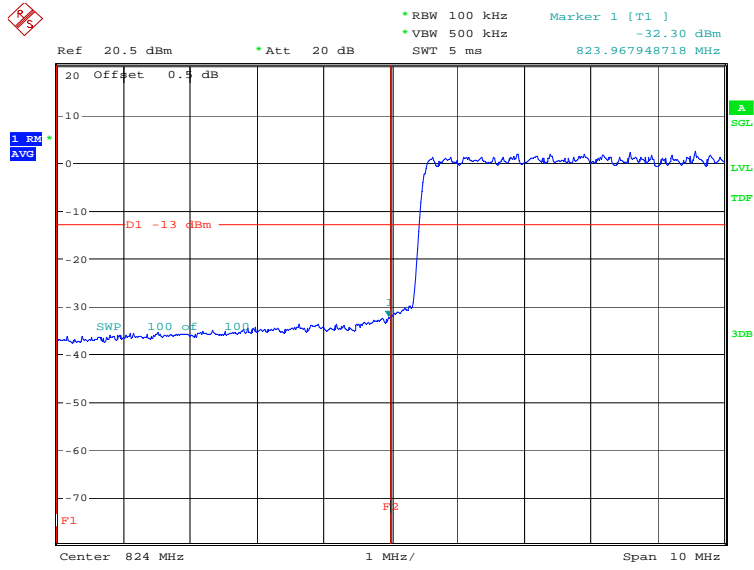
Date: 29.MAY.2022 11:05:08

HIGH BAND EDGE BLOCK-1RB-high_offset



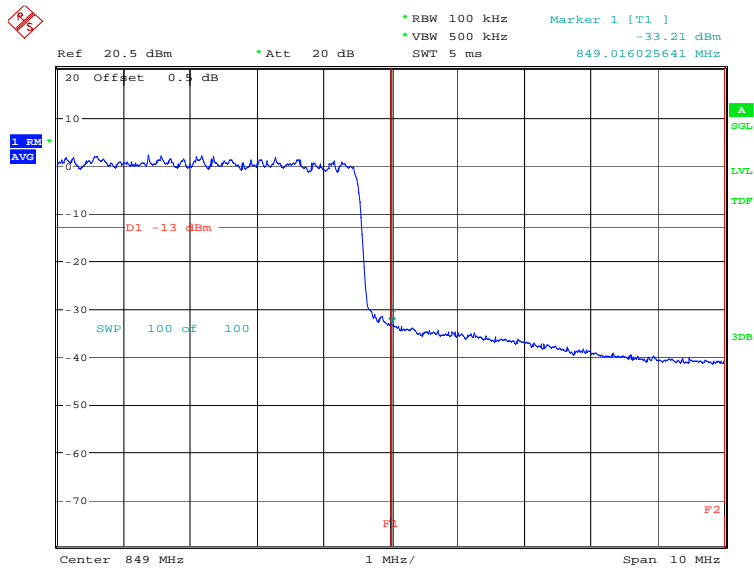
Date: 29.MAY.2022 11:06:21

LOW BAND EDGE BLOCK-10MHz-100%RB



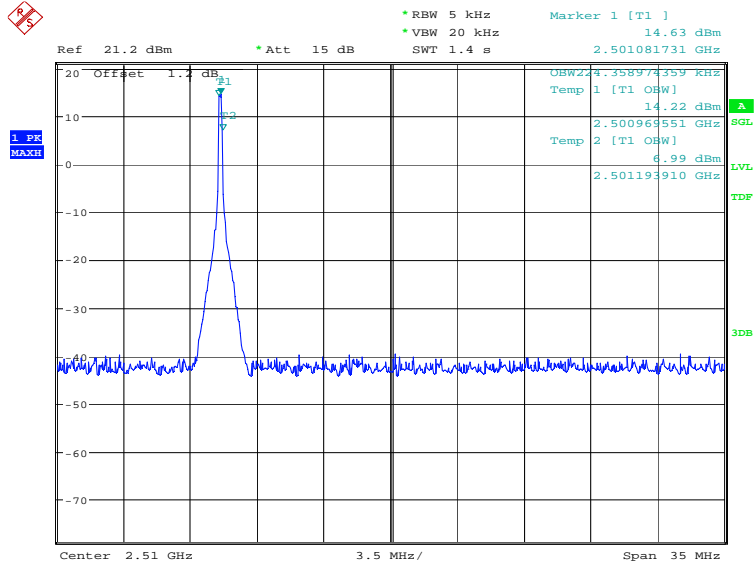
Date: 17.MAY.2022 14:00:50

HIGH BAND EDGE BLOCK-10MHz-100%RB



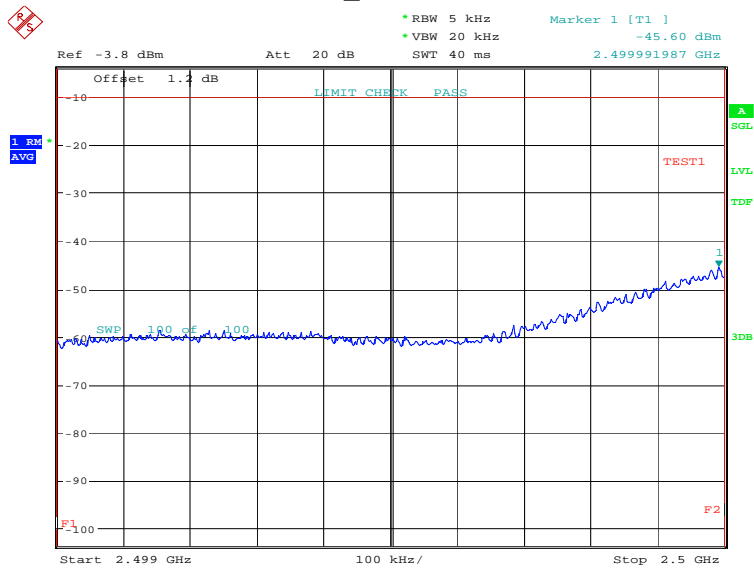
Date: 17.MAY.2022 14:02:13

LTE band 7
OBW: 1RB-low_offset

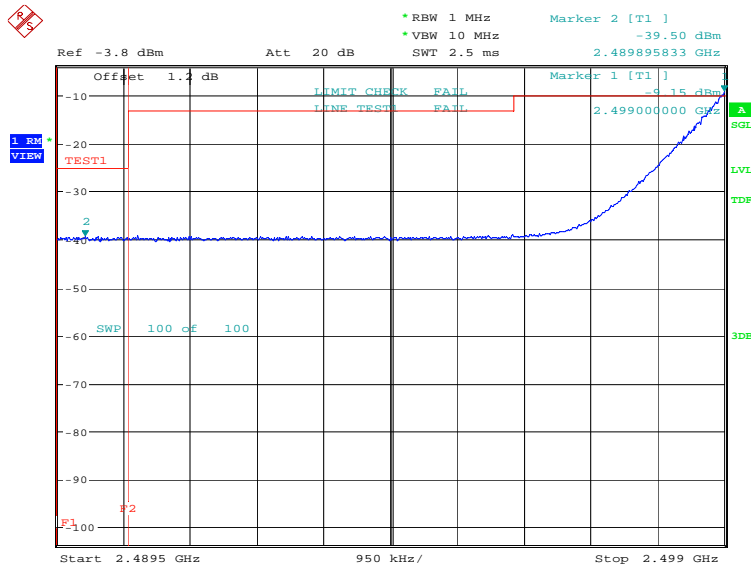


Date: 29.MAY.2022 11:07:16

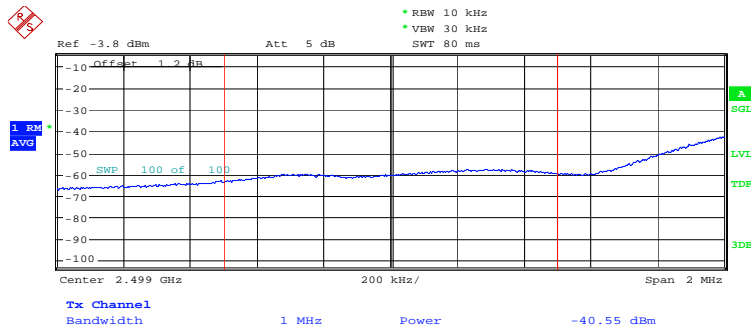
LOW BAND EDGE BLOCK-1RB-low_offset



Date: 29.MAY.2022 11:08:37

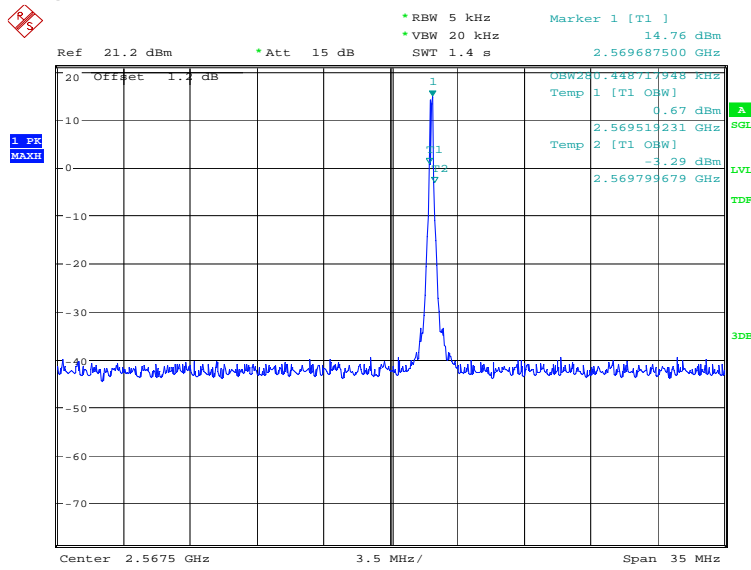


Date: 29.MAY.2022 11:10:25



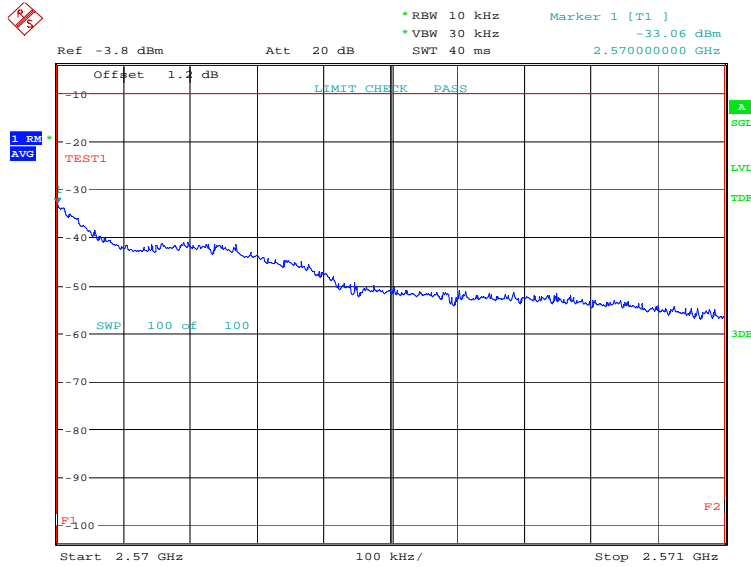
Date: 29.MAY.2022 11:10:52

OBW: 1RB-high_offset

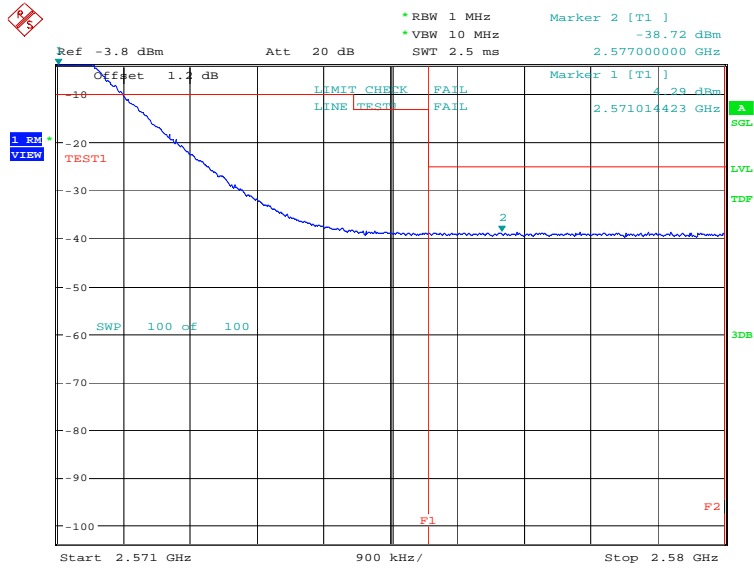


Date: 29.MAY.2022 11:12:11

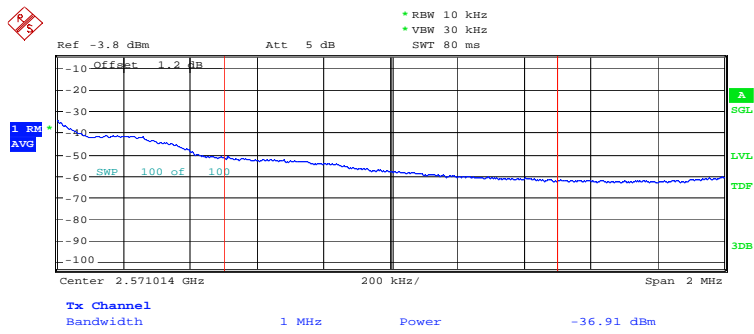
HIGH BAND EDGE BLOCK-1RB-high_offset



Date: 29.MAY.2022 11:13:31

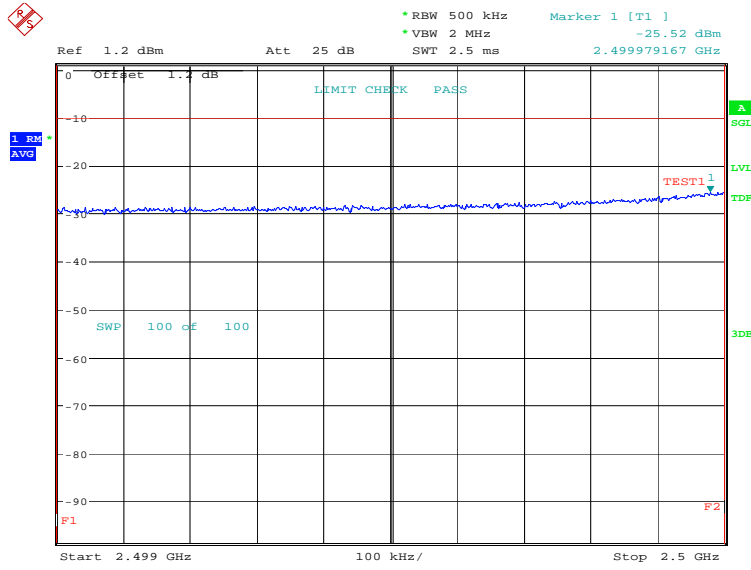


Date: 29.MAY.2022 11:15:19

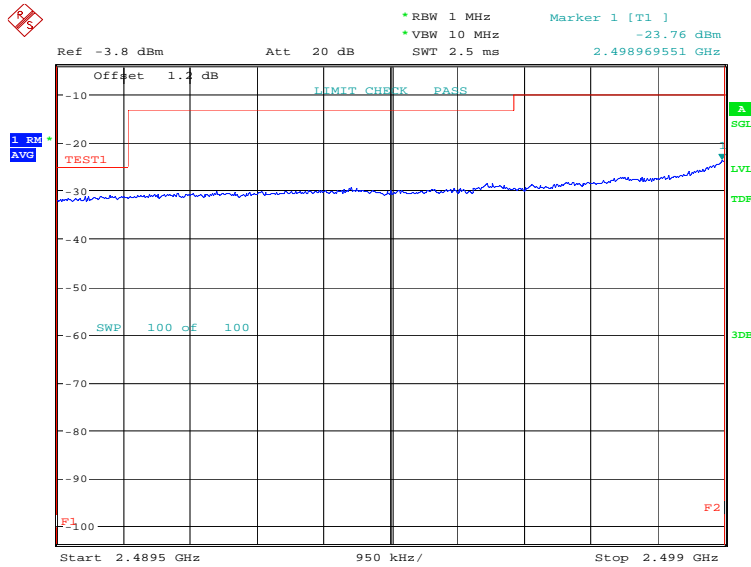


Date: 29.MAY.2022 11:15:46

LOW BAND EDGE BLOCK-20MHz-100%RB

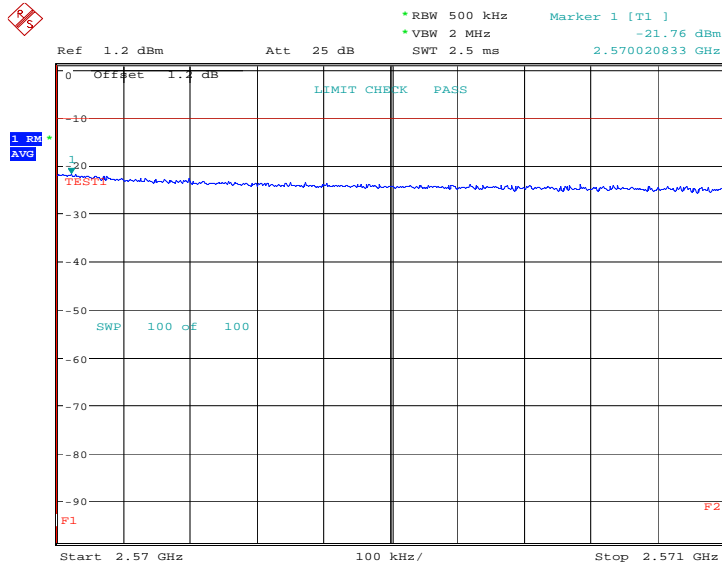


Date: 17.MAY.2022 14:05:11

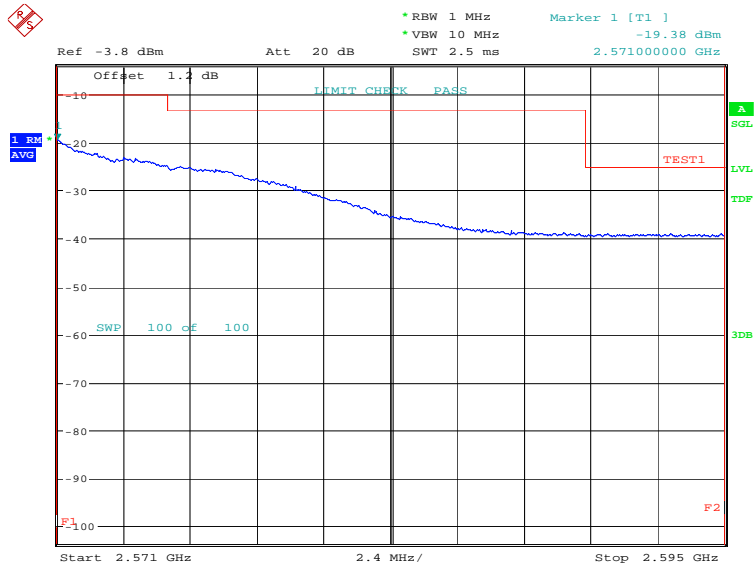


Date: 17.MAY.2022 14:06:50

HIGH BAND EDGE BLOCK-20MHz-100%RB

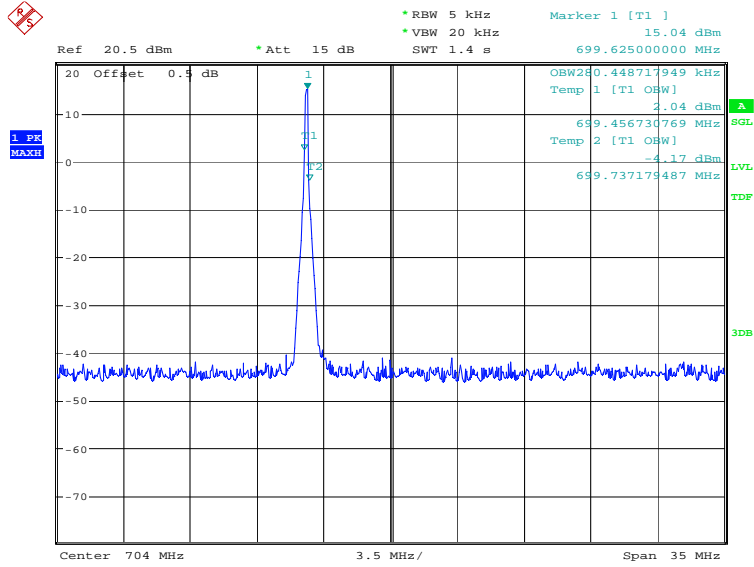


Date: 17.MAY.2022 14:09:38



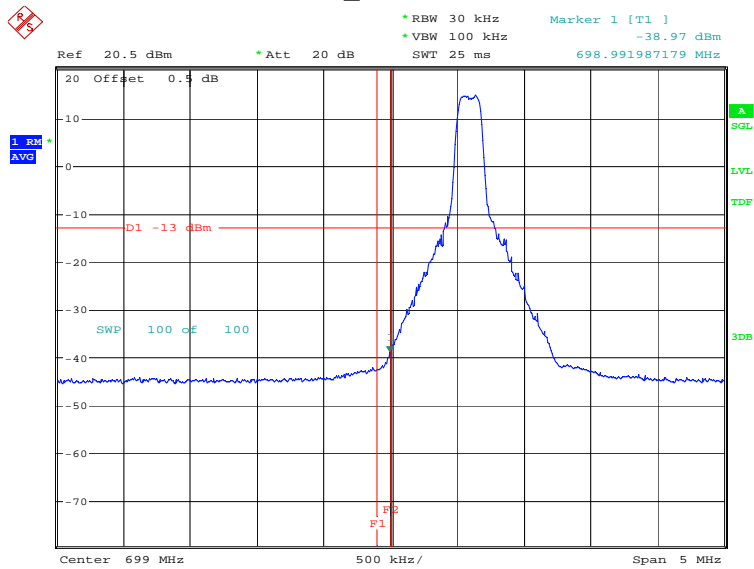
Date: 17.MAY.2022 14:11:17

LTE band 12
OBW: 1RB-low_offset



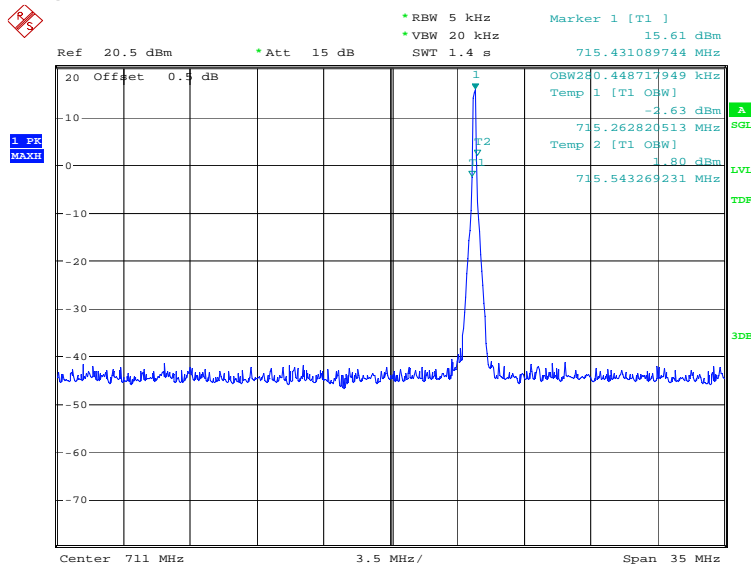
Date: 29.MAY.2022 11:16:31

LOW BAND EDGE BLOCK-1RB-low_offset



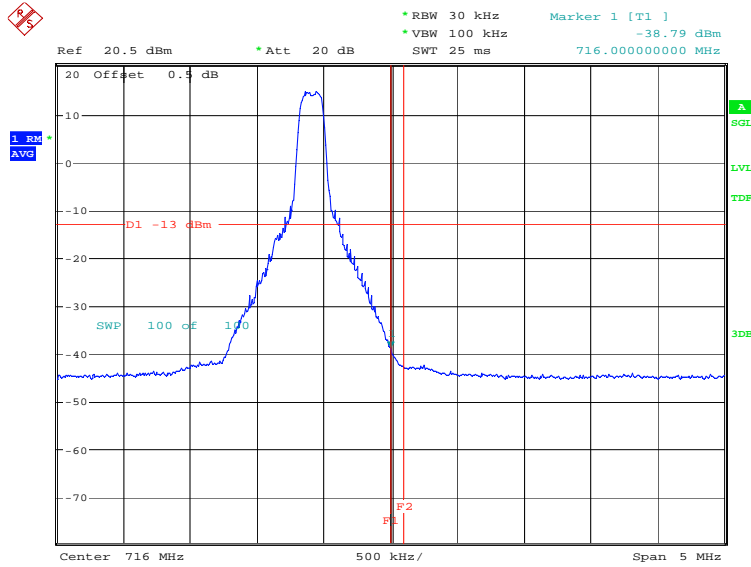
Date: 29.MAY.2022 11:16:50

OBW: 1RB-high_offset



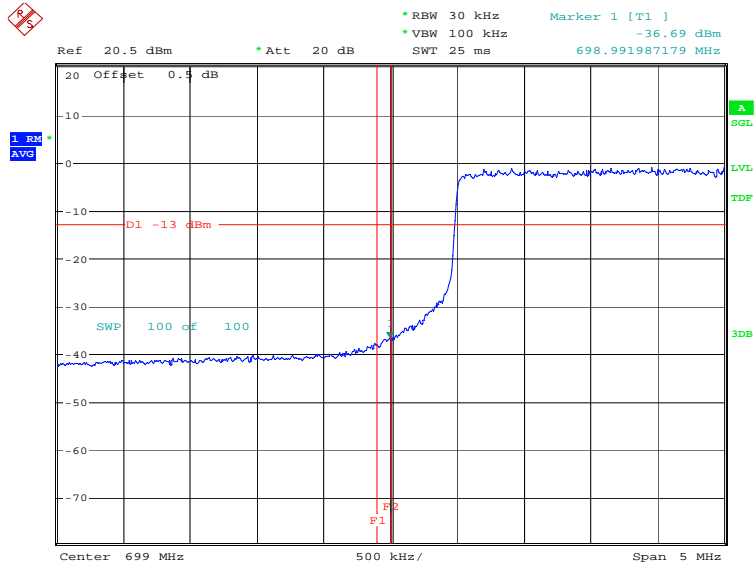
Date: 29.MAY.2022 11:17:25

HIGH BAND EDGE BLOCK-1RB-high_offset



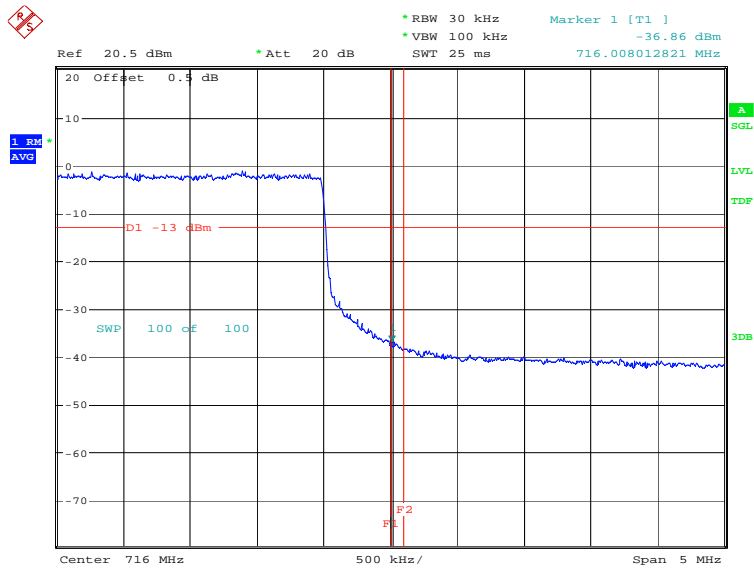
Date: 29.MAY.2022 11:17:44

LOW BAND EDGE BLOCK-10MHz-100%RB



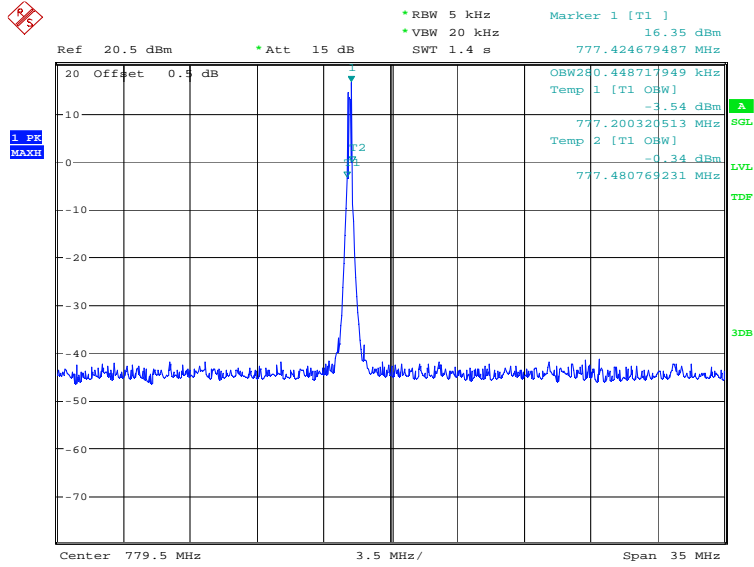
Date: 17.MAY.2022 14:13:41

HIGH BAND EDGE BLOCK-10MHz-100%RB



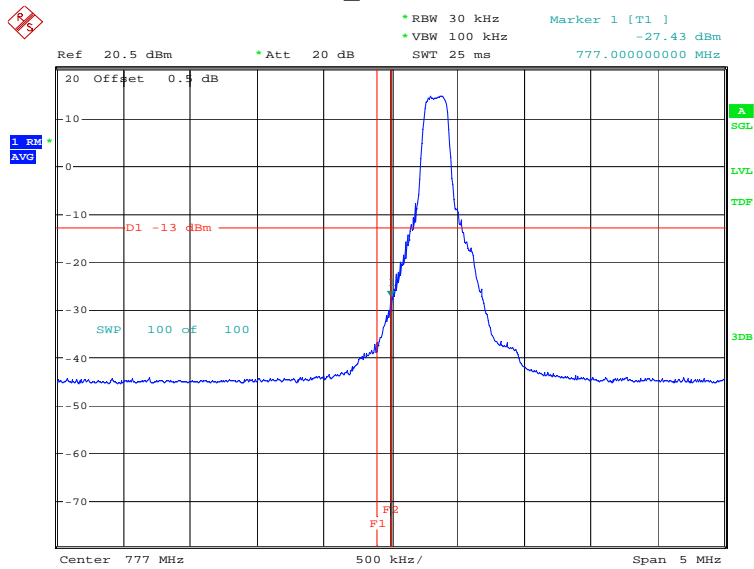
Date: 17.MAY.2022 14:15:05

LTE band 13
OBW: 1RB-low_offset

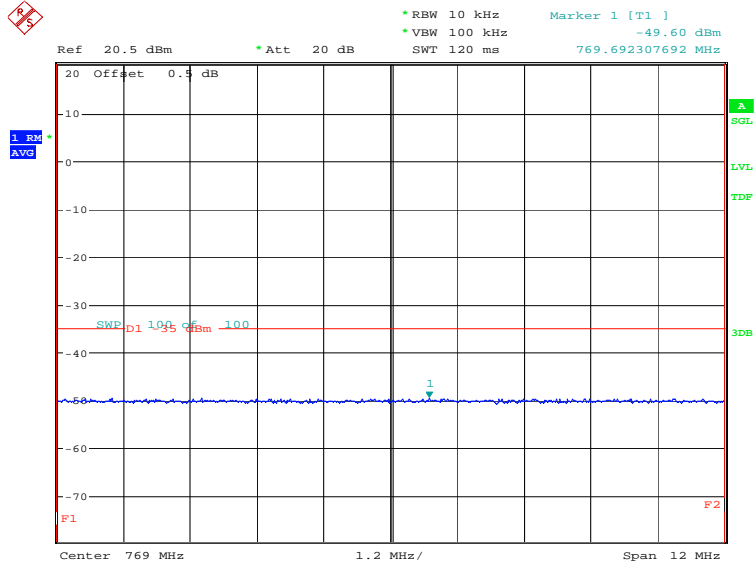


Date: 29.MAY.2022 11:19:07

LOW BAND EDGE BLOCK-1RB-low_offset

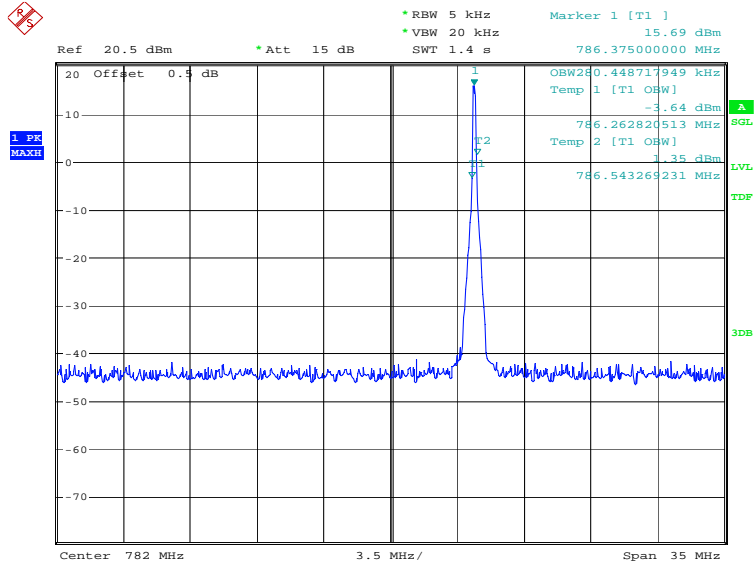


Date: 29.MAY.2022 11:19:26



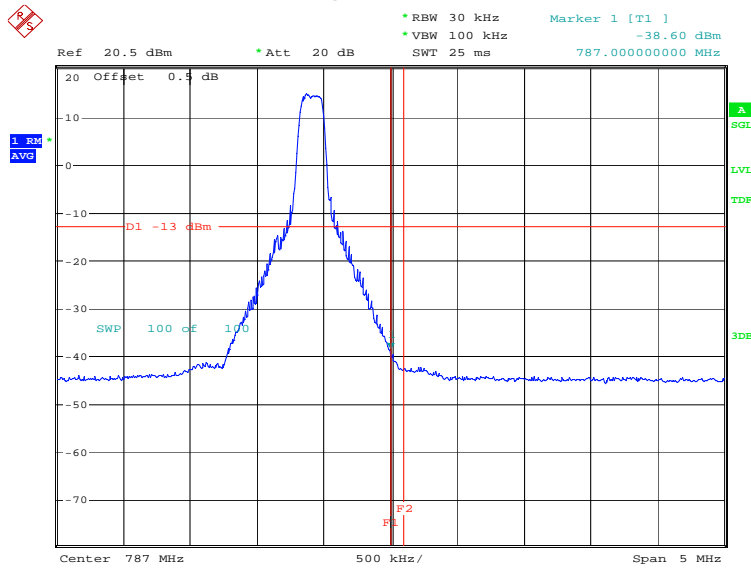
Date: 29.MAY.2022 11:20:04

OBW: 1RB-high_offset

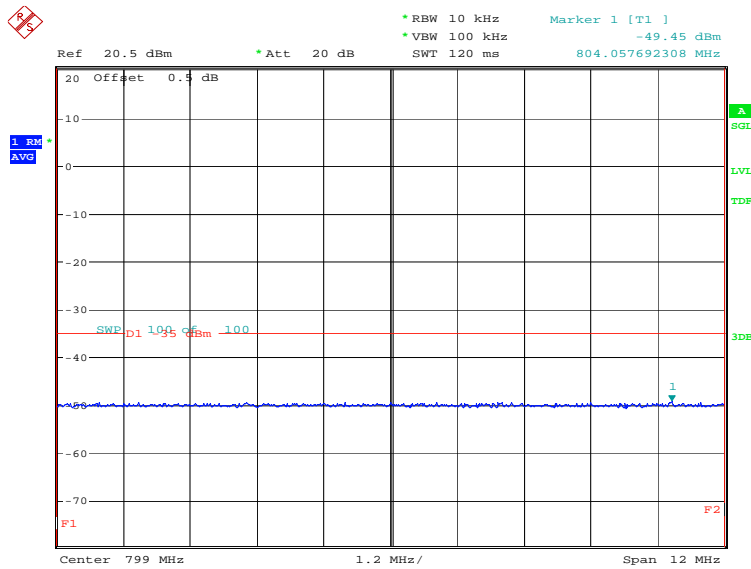


Date: 29.MAY.2022 11:20:45

HIGH BAND EDGE BLOCK-1RB-high_offset

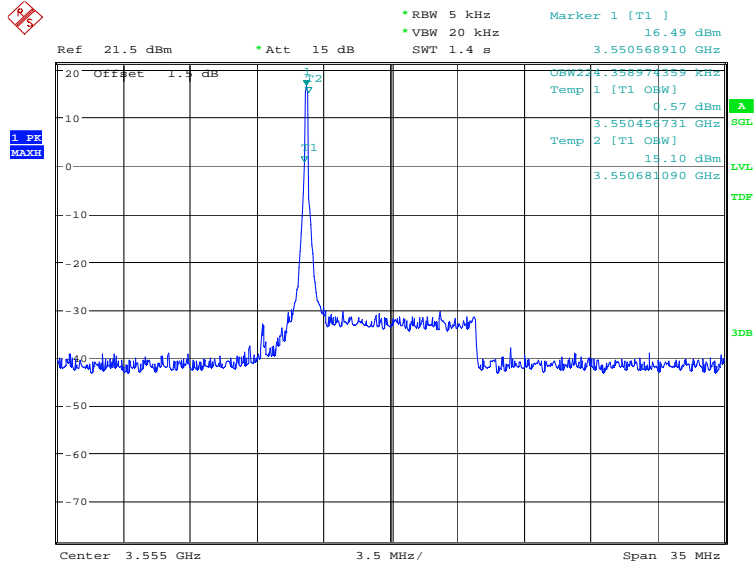


Date: 29.MAY.2022 11:21:04



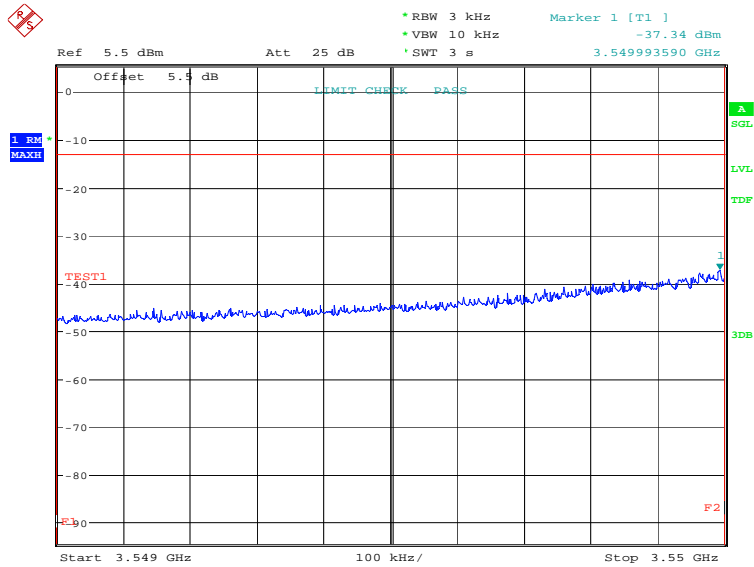
Date: 29.MAY.2022 11:21:42

LTE band 48
OBW: 1RB-low_offset

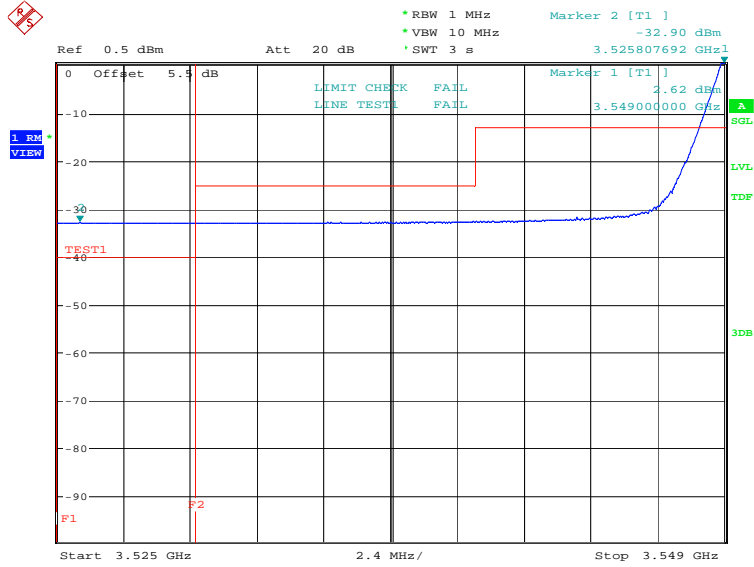


Date: 30.MAY.2022 14:04:05

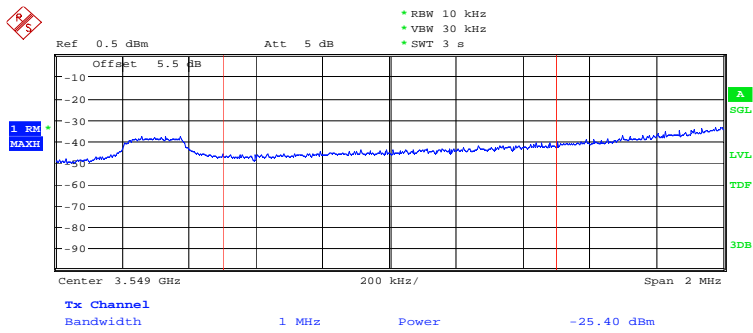
LOW BAND EDGE BLOCK-1RB-low_offset



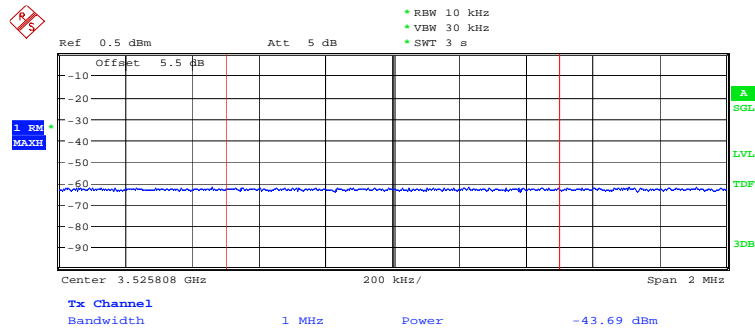
Date: 30.MAY.2022 14:04:45



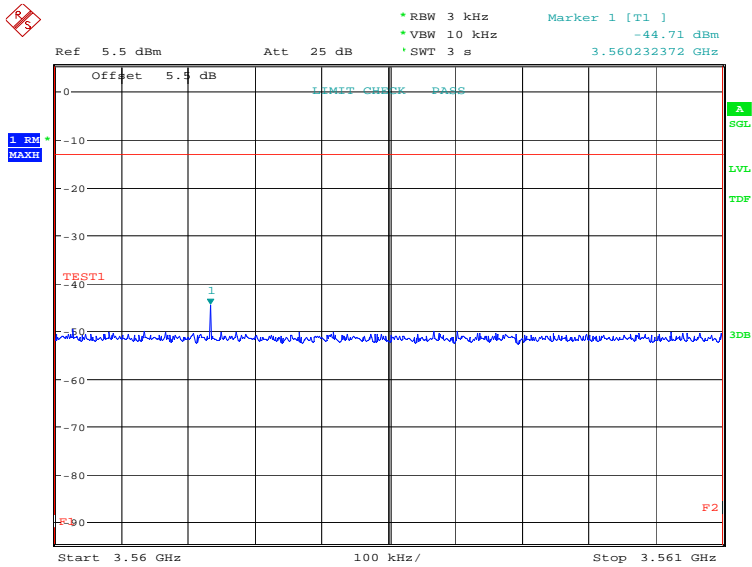
Date: 30.MAY.2022 14:06:10



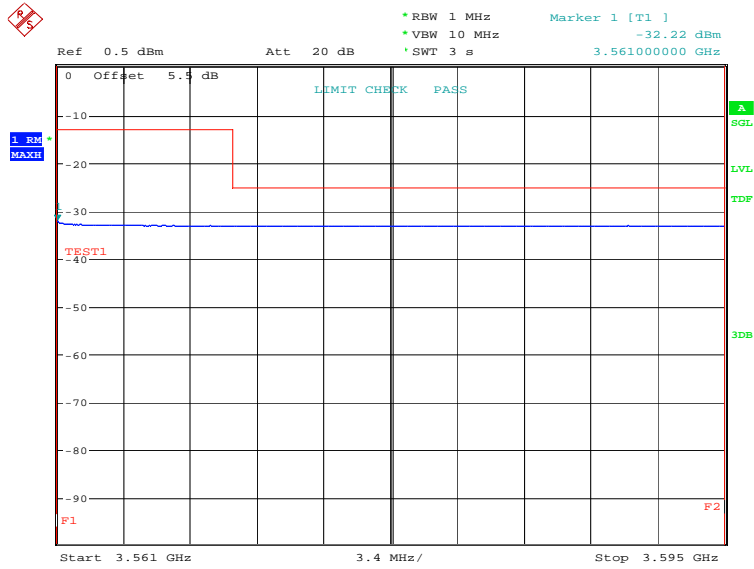
Date: 30.MAY.2022 14:06:27



Date: 30.MAY.2022 14:06:42

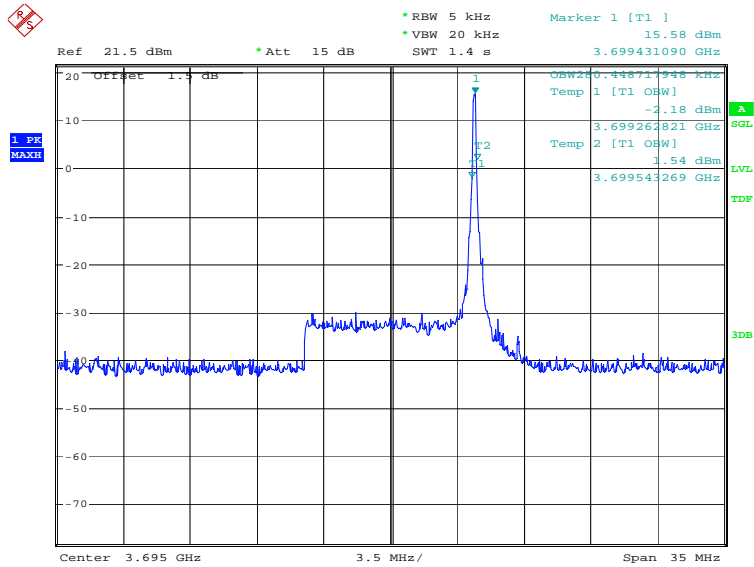


Date: 30.MAY.2022 14:05:25



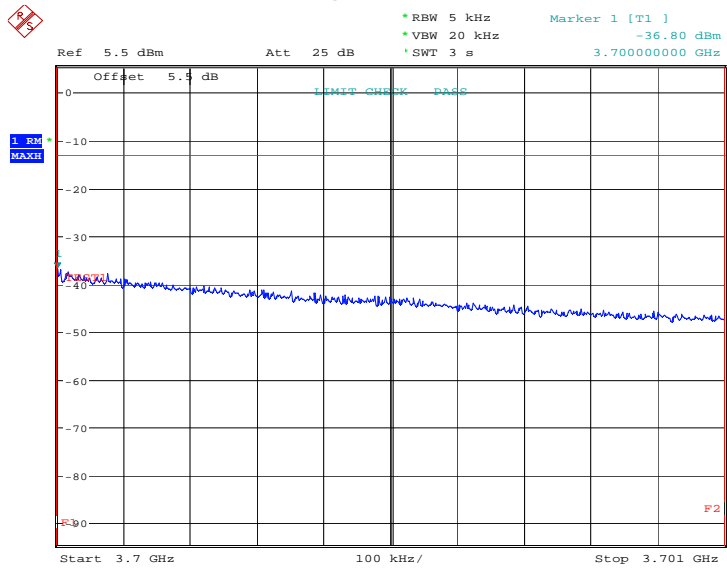
Date: 30.MAY.2022 14:07:19

OBW: 1RB-high_offset

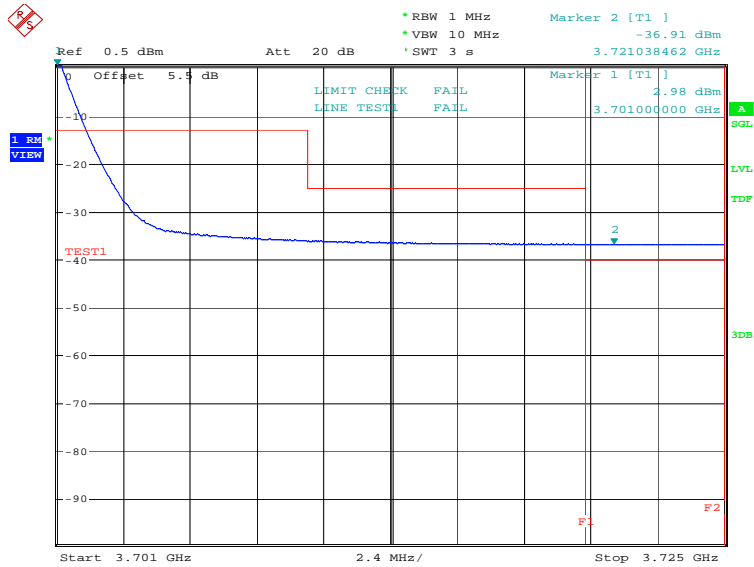


Date: 30.MAY.2022 13:58:40

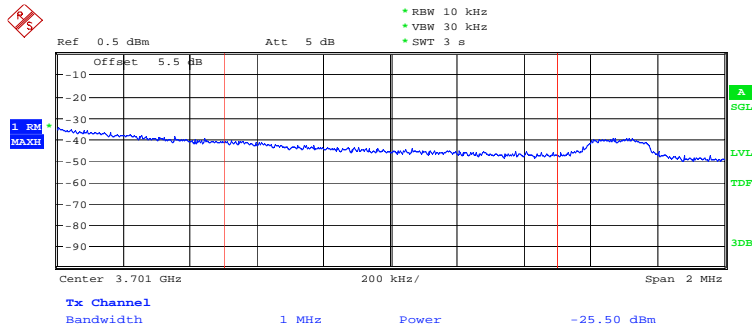
HIGH BAND EDGE BLOCK-1RB-high_offset



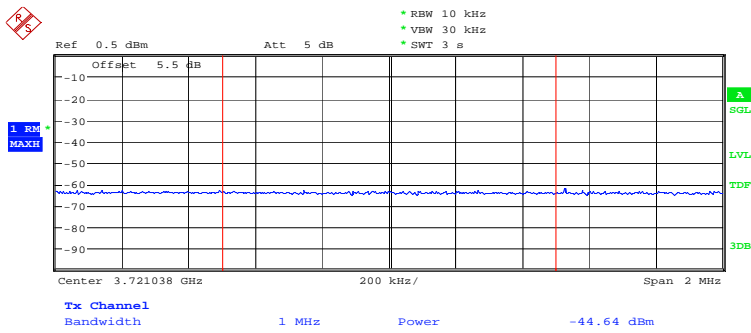
Date: 30.MAY.2022 13:59:20



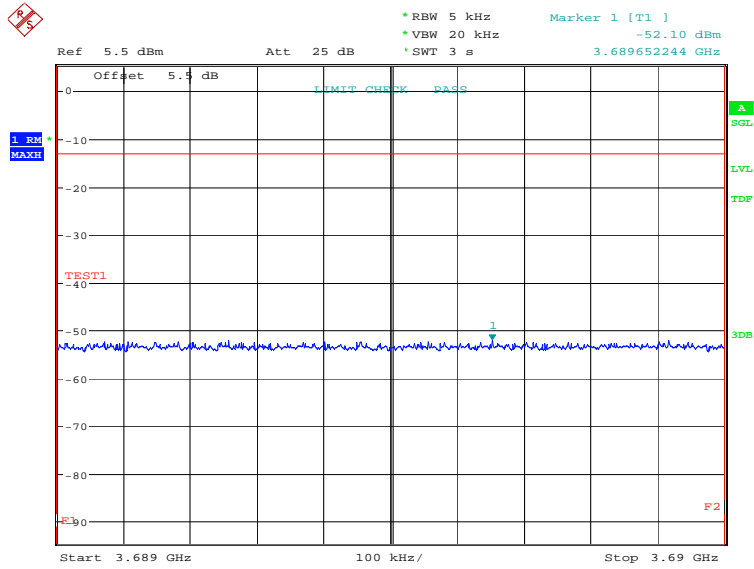
Date: 30.MAY.2022 14:00:46



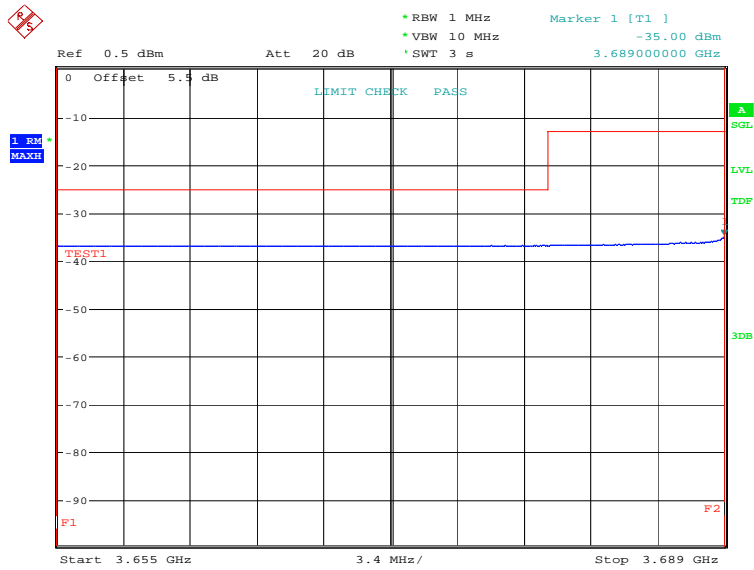
Date: 30.MAY.2022 14:01:03



Date: 30.MAY.2022 14:01:17

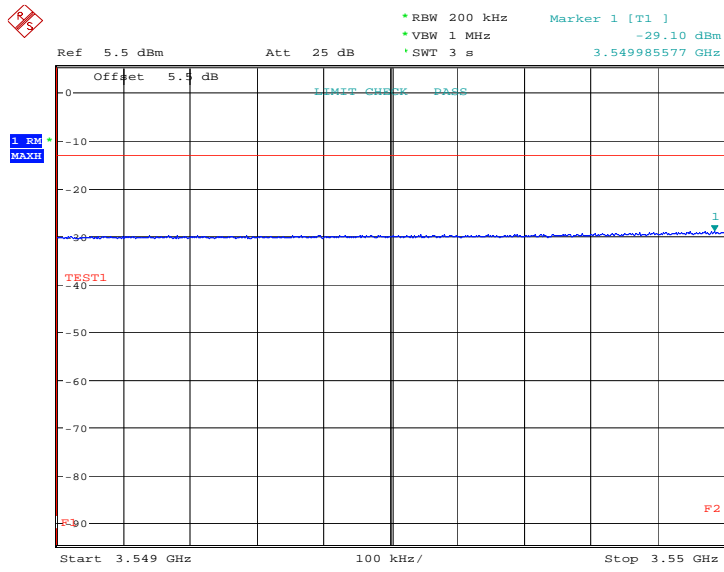


Date: 30.MAY.2022 14:00:00

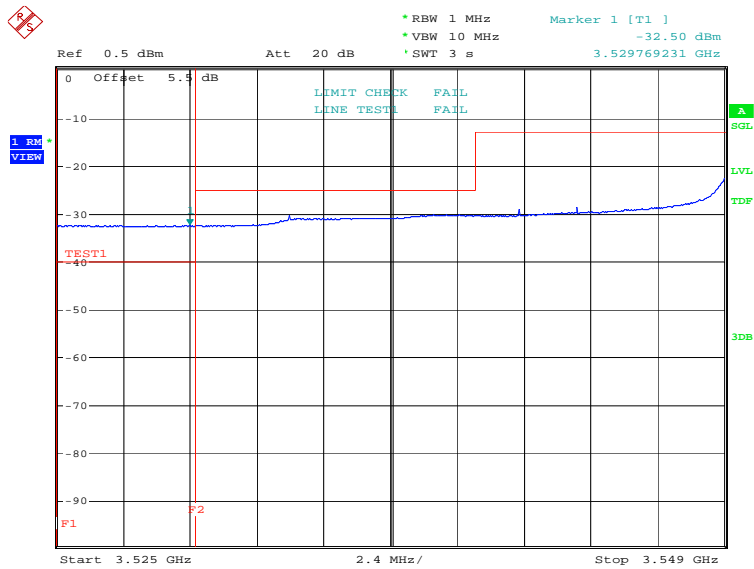


Date: 30.MAY.2022 14:01:55

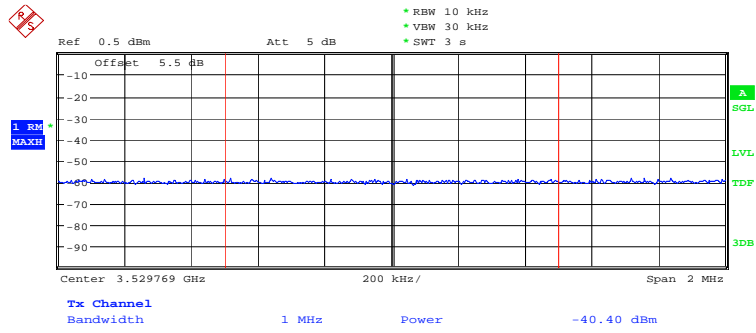
LOW BAND EDGE BLOCK-20MHz-100%RB



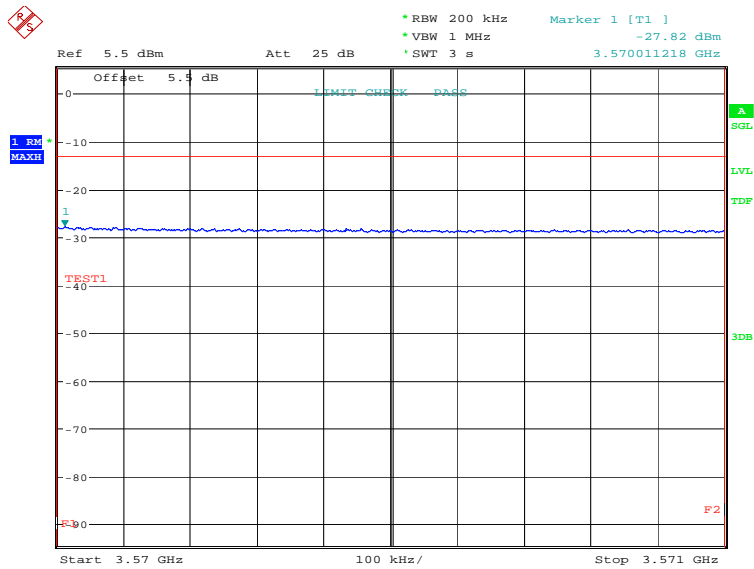
Date: 20.MAY.2022 15:53:42



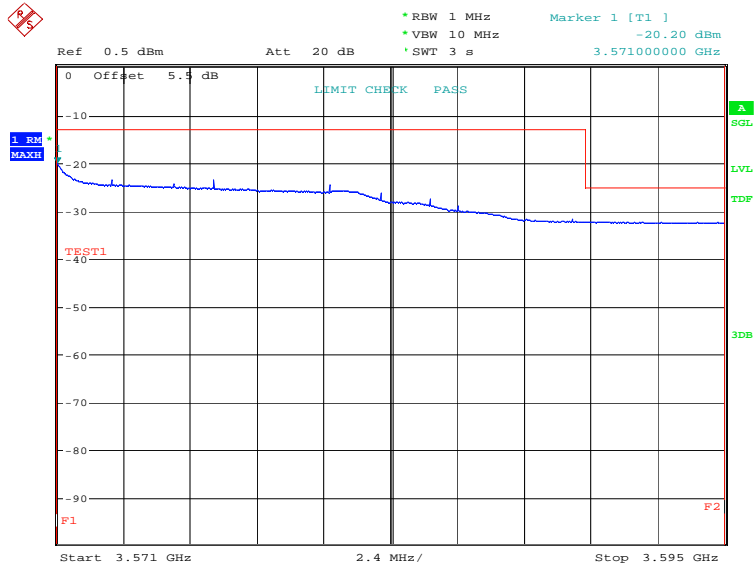
Date: 20.MAY.2022 15:55:08



Date: 20.MAY.2022 15:55:25

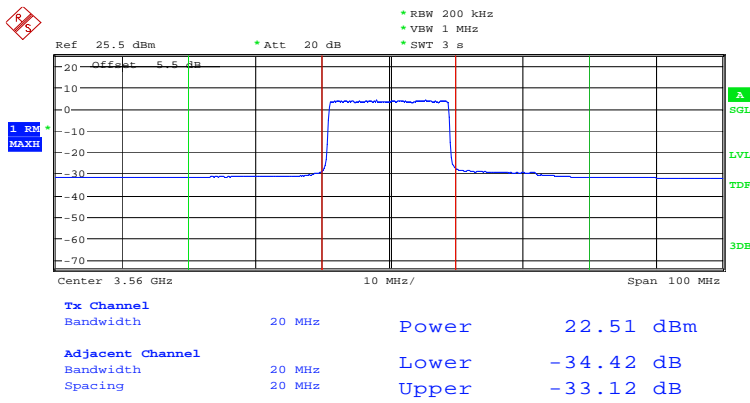


Date: 20.MAY.2022 15:54:22



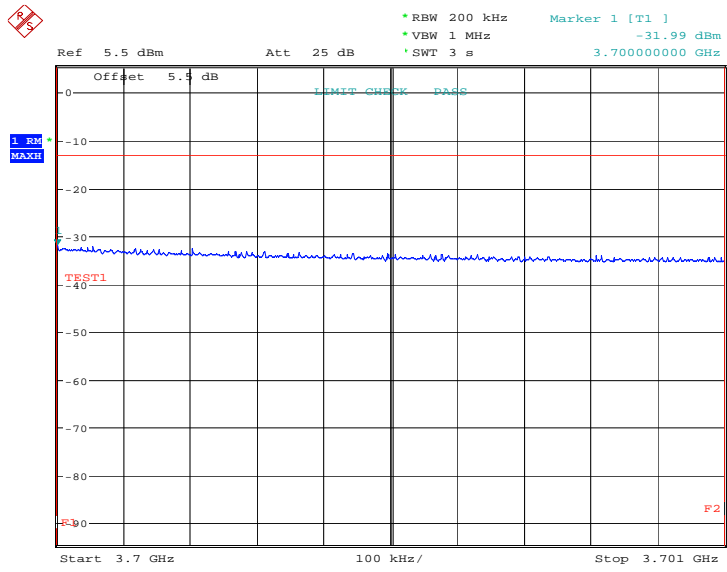
Date: 20.MAY.2022 15:56:03

ACLR

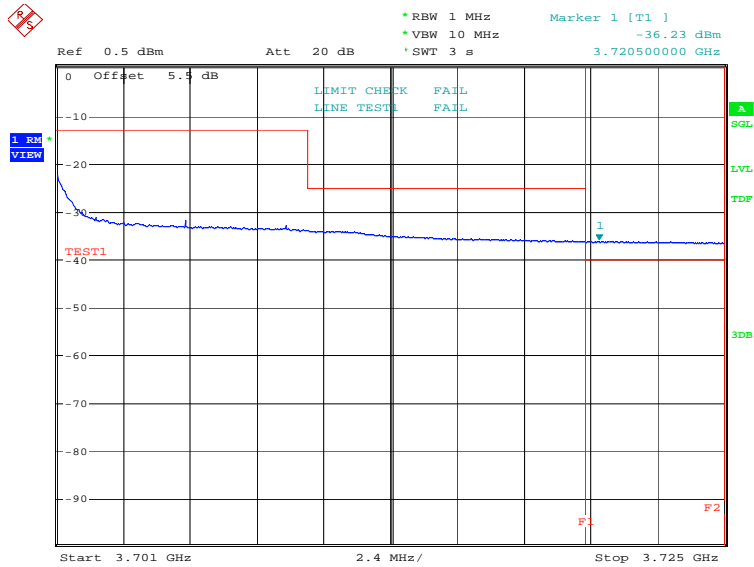


Date: 20.MAY.2022 15:57:19

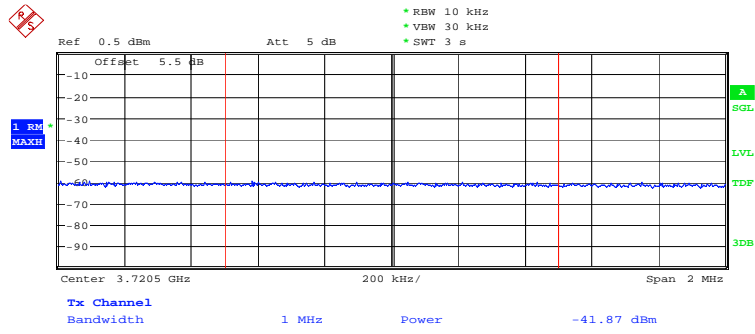
HIGH BAND EDGE BLOCK-20MHz-100%RB



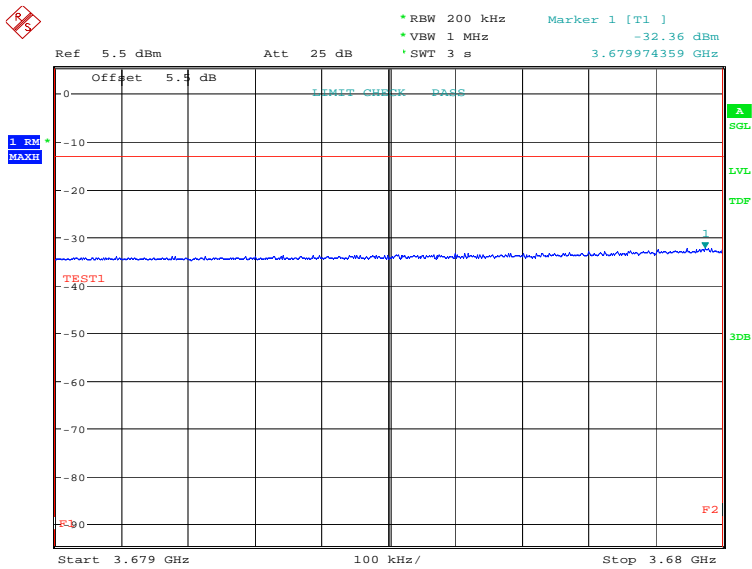
Date: 20.MAY.2022 15:58:15



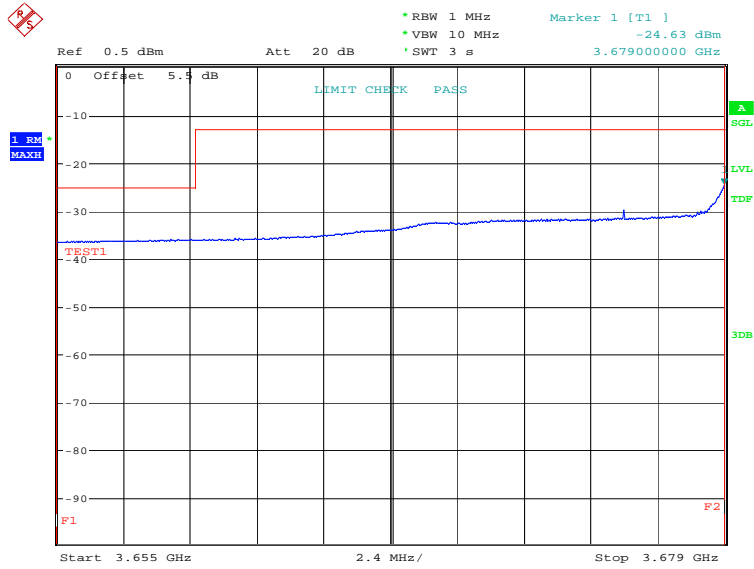
Date: 20.MAY.2022 15:59:40



Date: 20.MAY.2022 15:59:58

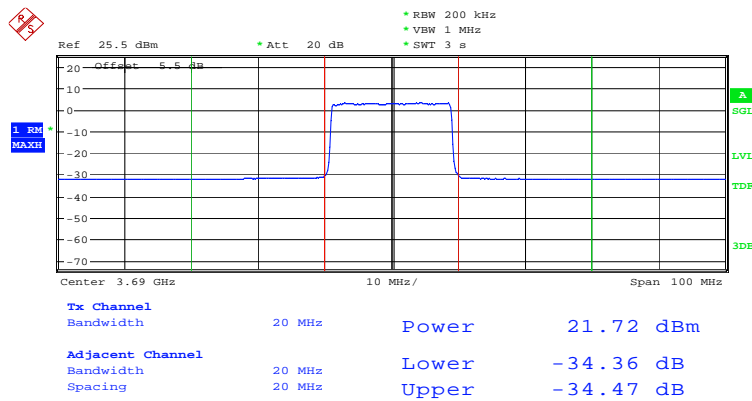


Date: 20.MAY.2022 15:58:55



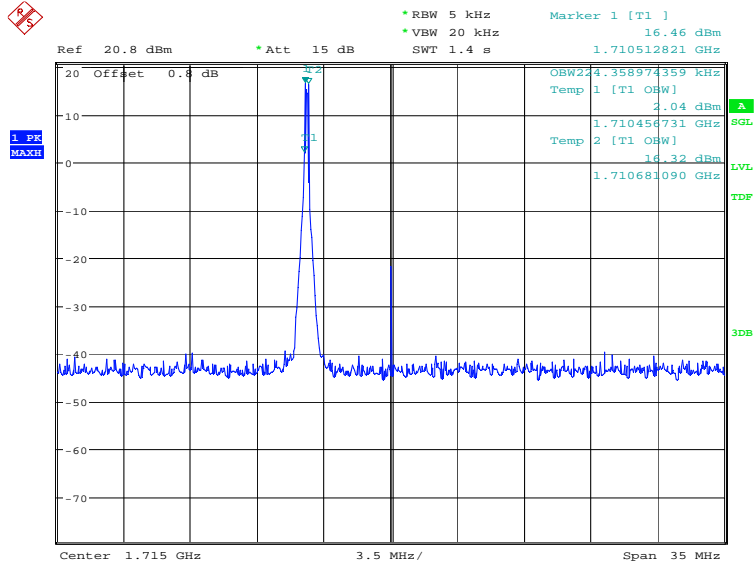
Date: 20.MAY.2022 16:00:36

ACLR



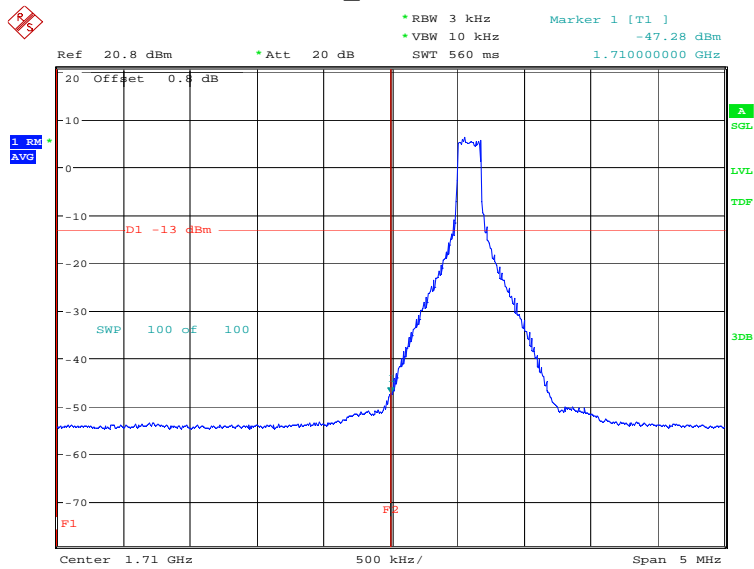
Date: 20.MAY.2022 16:01:52

LTE band 66
OBW: 1RB-low_offset



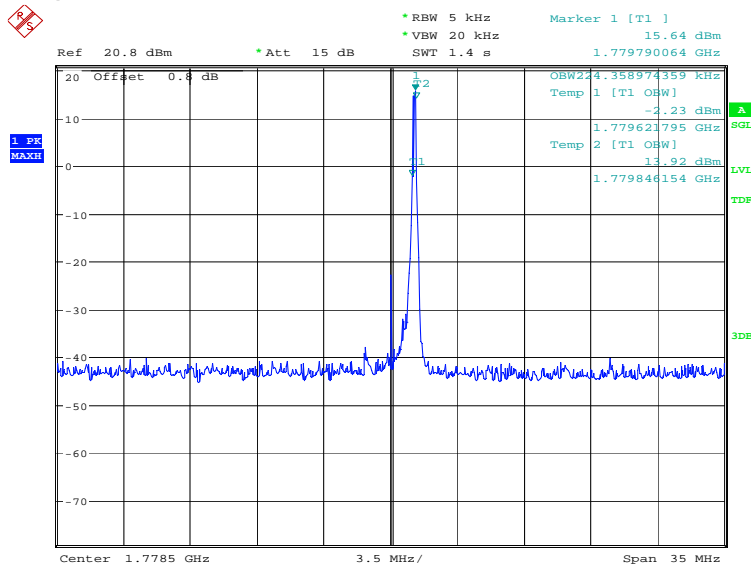
Date: 29.MAY.2022 11:22:22

LOW BAND EDGE BLOCK-1RB-low_offset



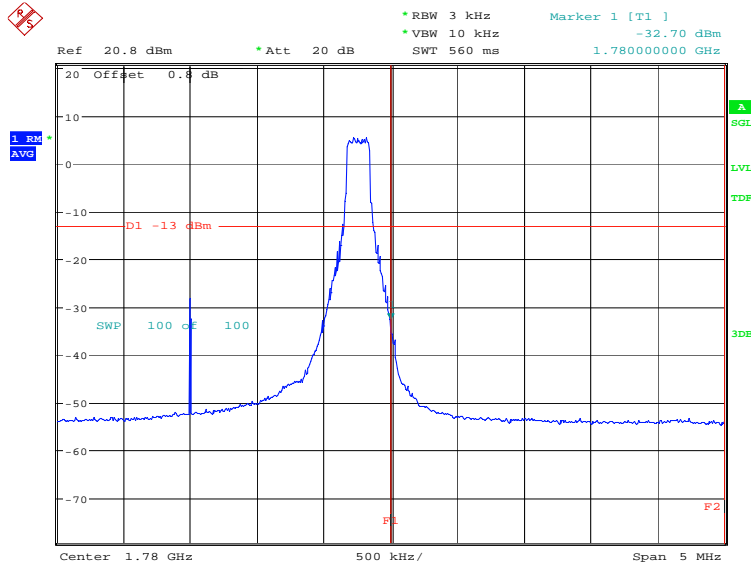
Date: 29.MAY.2022 11:23:35

OBW: 1RB-high_offset



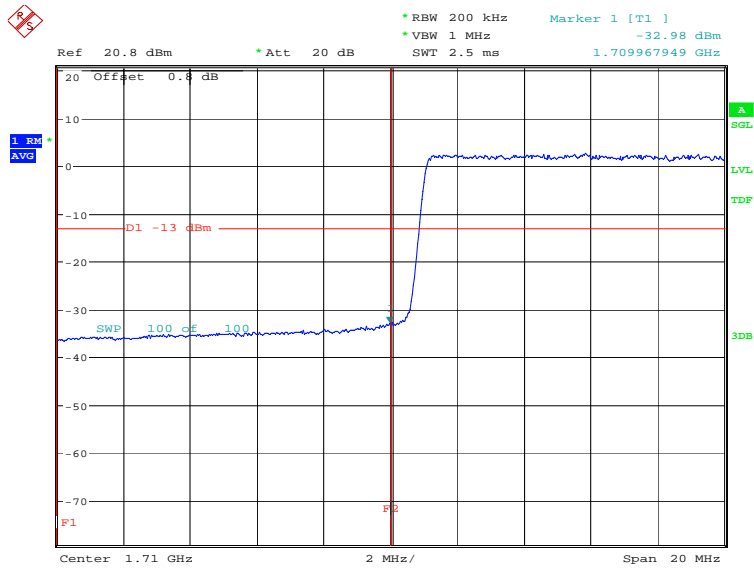
Date: 29.MAY.2022 11:24:54

HIGH BAND EDGE BLOCK-1RB-high_offset



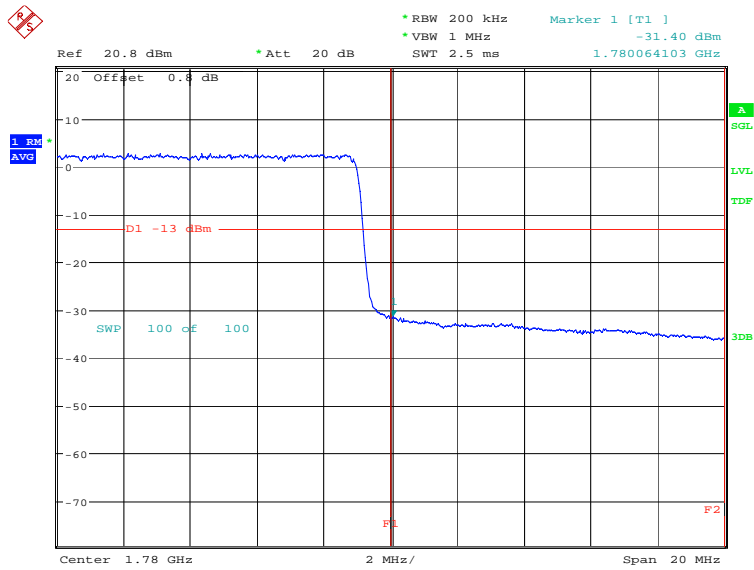
Date: 29.MAY.2022 11:26:08

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 17.MAY.2022 14:20:06

HIGH BAND EDGE BLOCK-20MHz-100%RB

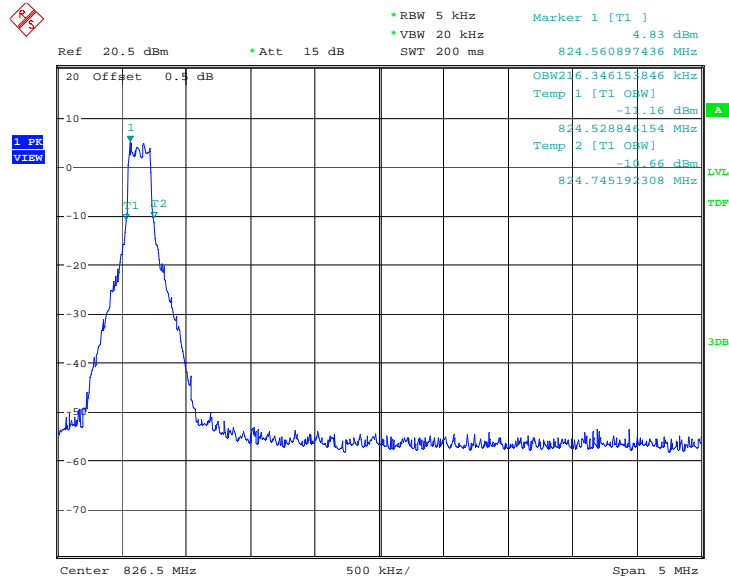


Date: 17.MAY.2022 14:21:30

LTE CA Band 5B

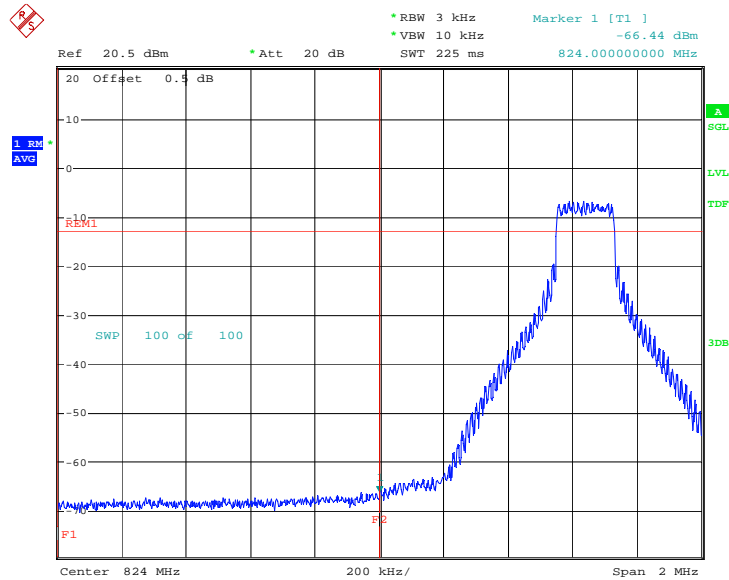
Only the worst case result is given below

OBW: 1RB-low_offset



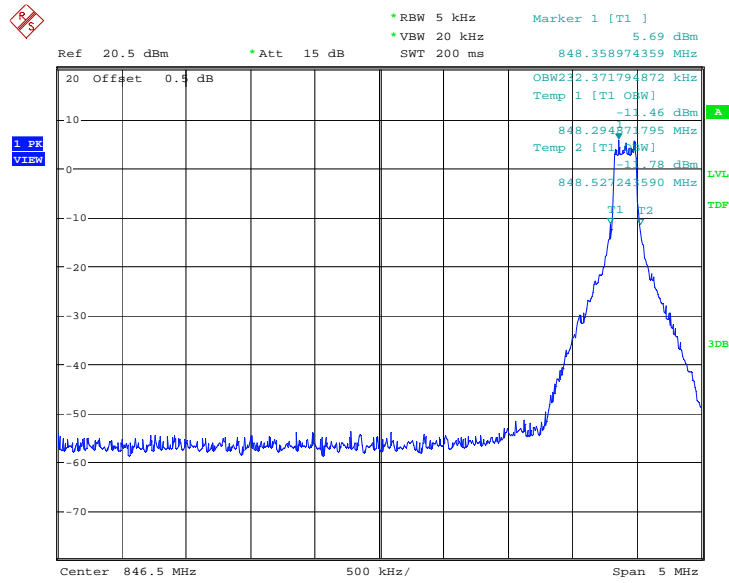
Date: 25.JUN.2022 09:03:11

LOW BAND EDGE BLOCK-5MHz+10MHz-1RB



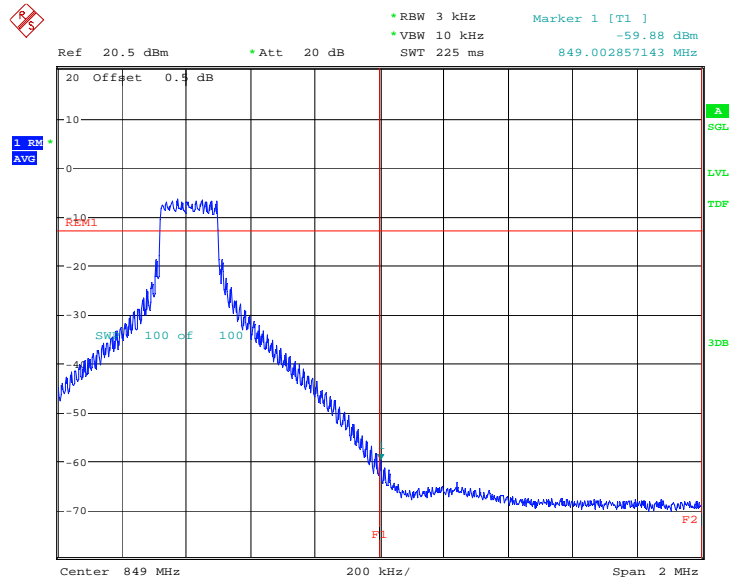
Date: 25.JUN.2022 09:04:14

OBW: 1RB-high_offset



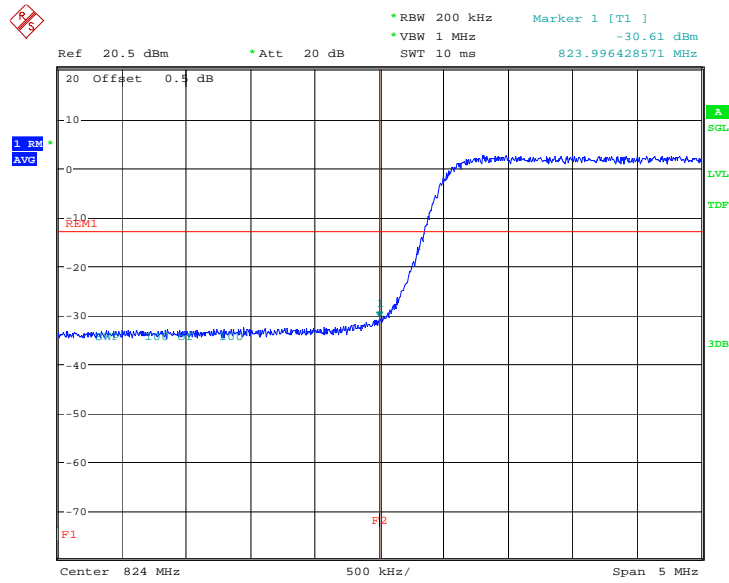
Date: 25.JUN.2022 09:05:03

HIGH BAND EDGE BLOCK-5MHz+10MHz-1RB



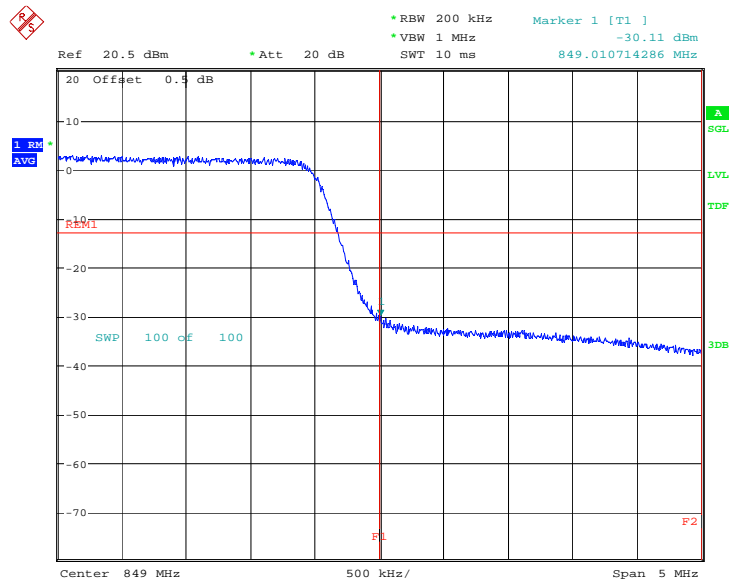
Date: 25.JUN.2022 09:06:07

LOW BAND EDGE BLOCK-10MHz+10MHz-100%RB



Date: 18.MAY.2022 00:25:57

HIGH BAND EDGE BLOCK-10MHz+10MHz-100%RB

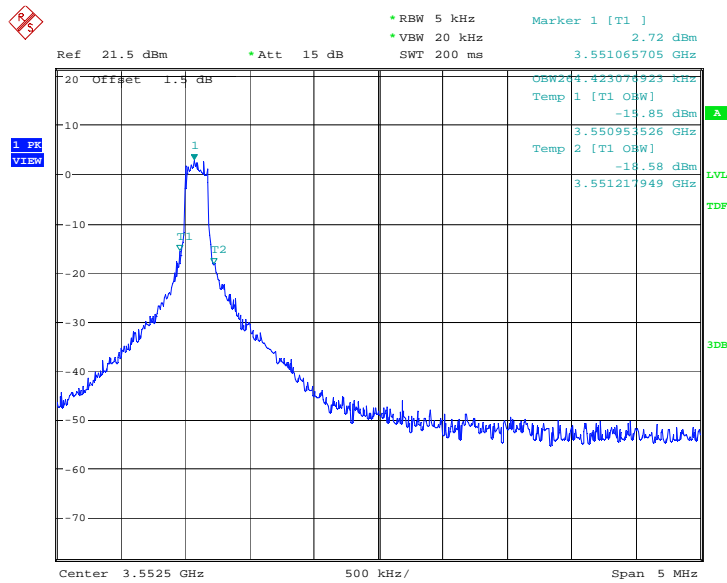


Date: 18.MAY.2022 00:27:21

LTE CA Band 66B

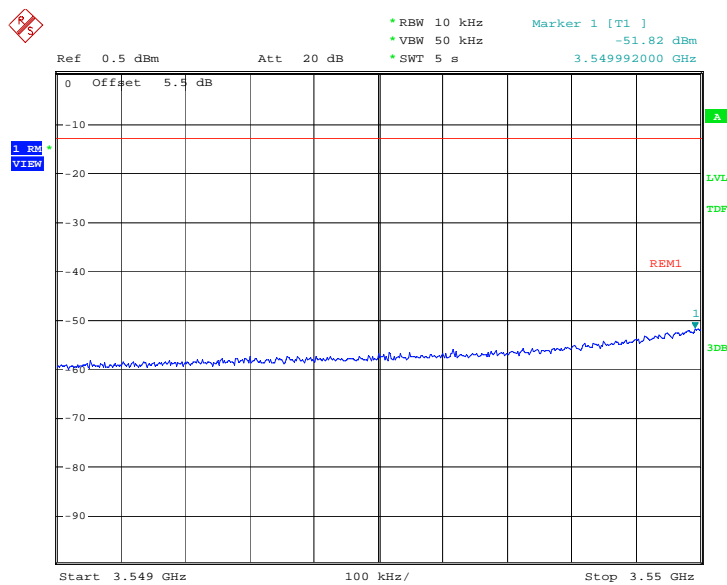
Only the worst case result is given below

OBW: 1RB-low_offset

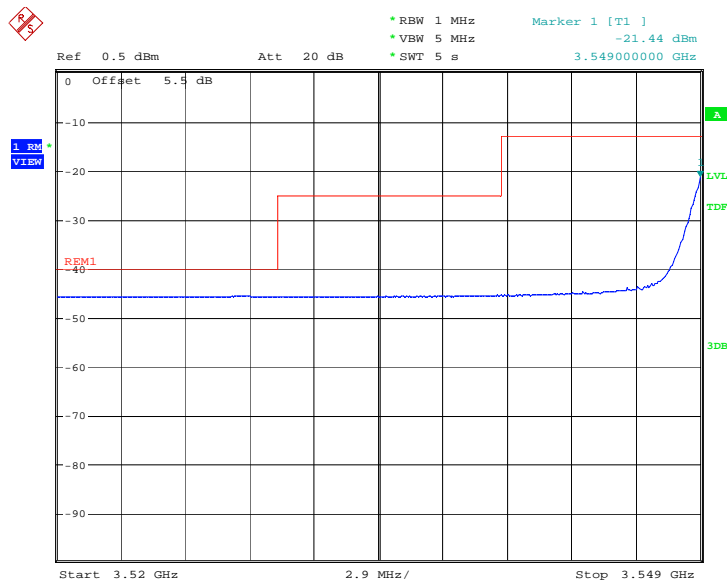


Date: 24.JUN.2022 16:11:07

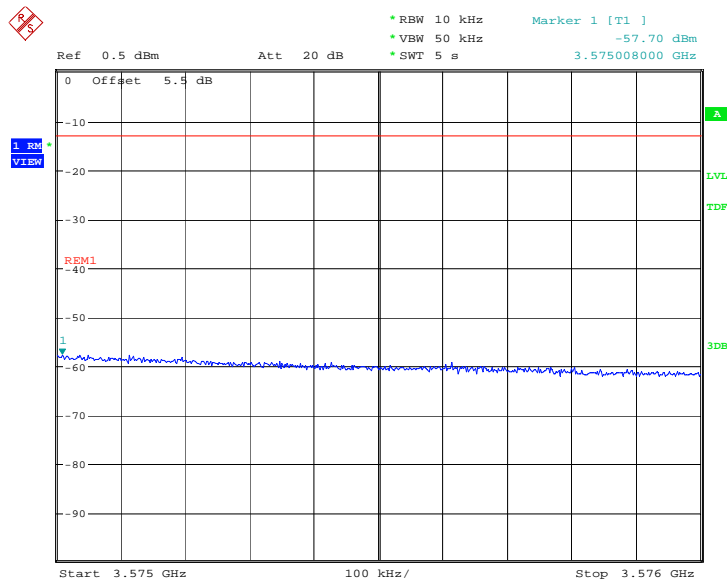
LOW BAND EDGE BLOCK-1RB-low_offset



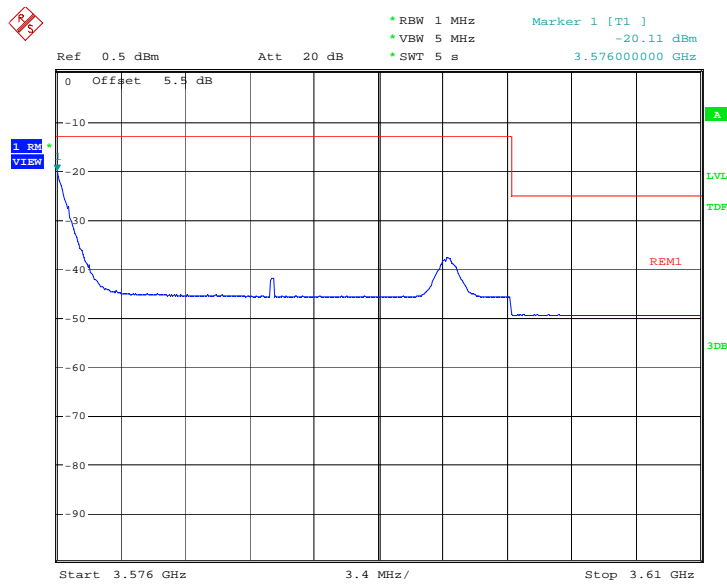
Date: 24.JUN.2022 16:11:49



Date: 24 JUN. 2022 16:12:31

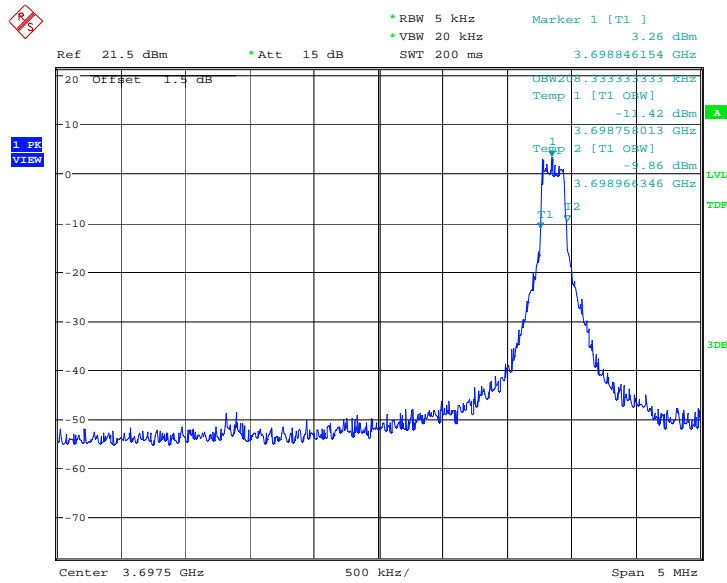


Date: 24 JUN. 2022 16:13:13



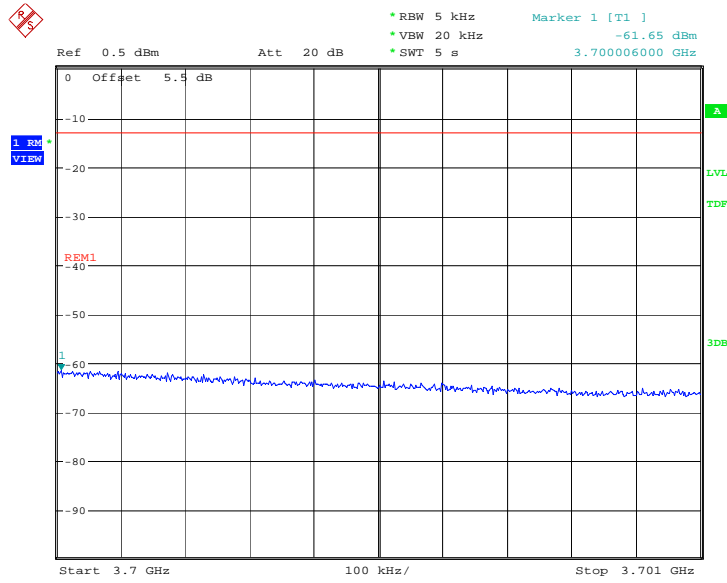
Date: 24.JUN.2022 16:13:55

OBW: 1RB-HIGH_offset

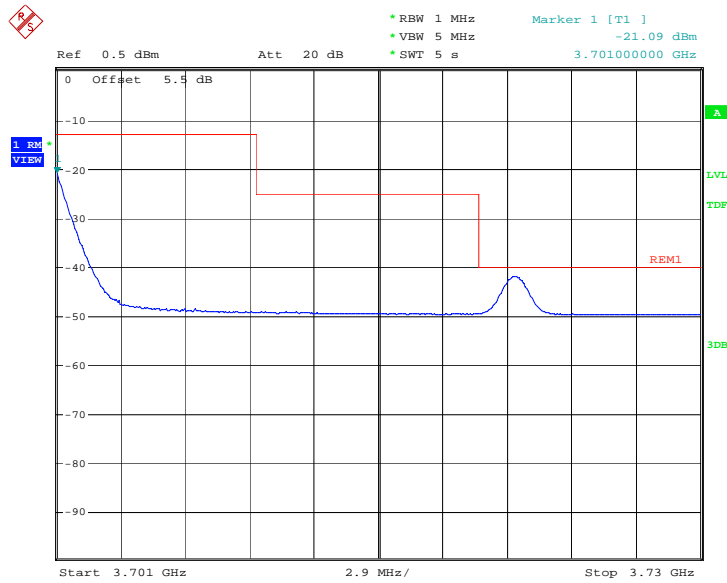


Date: 24.JUN.2022 16:14:44

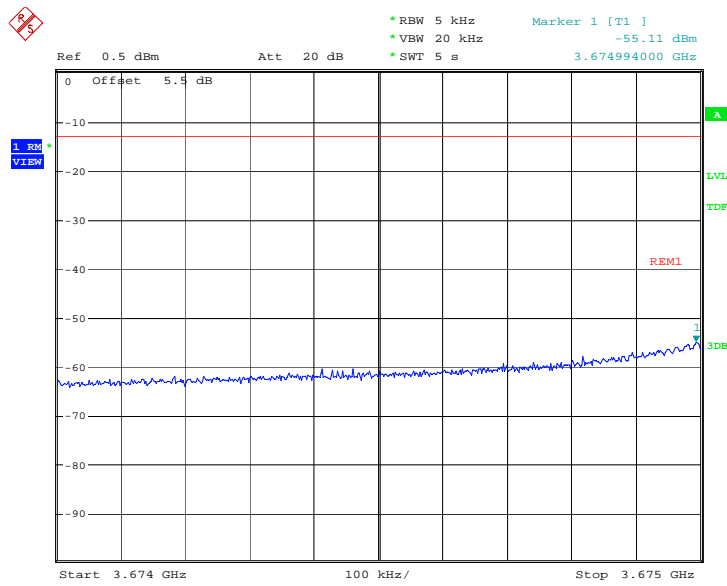
HIGH BAND EDGE BLOCK-1RB-high_offset



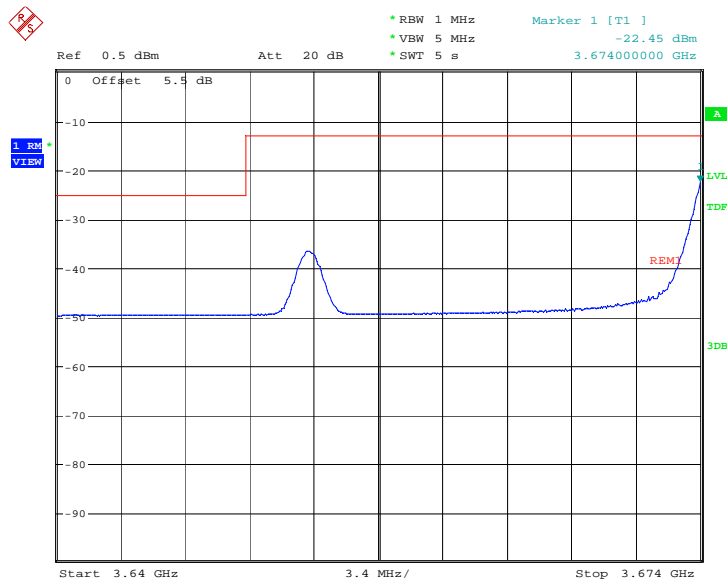
Date: 24.JUN.2022 16:15:27



Date: 24.JUN.2022 16:16:10

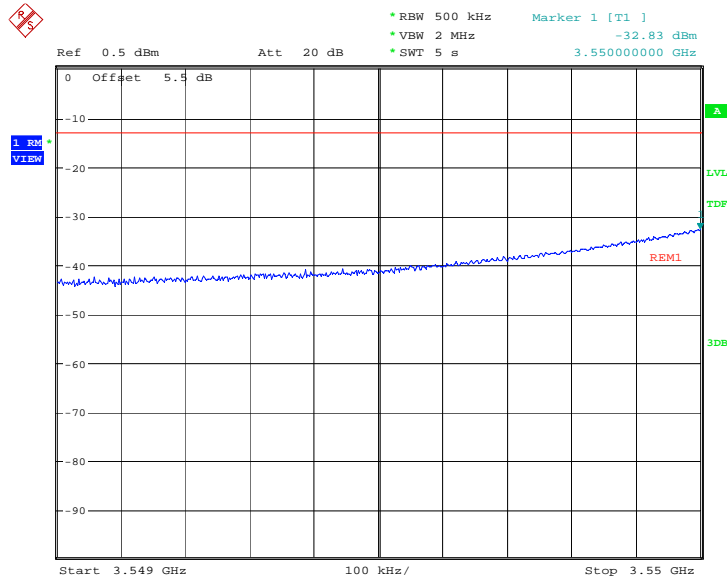


Date: 24.JUN.2022 16:16:52

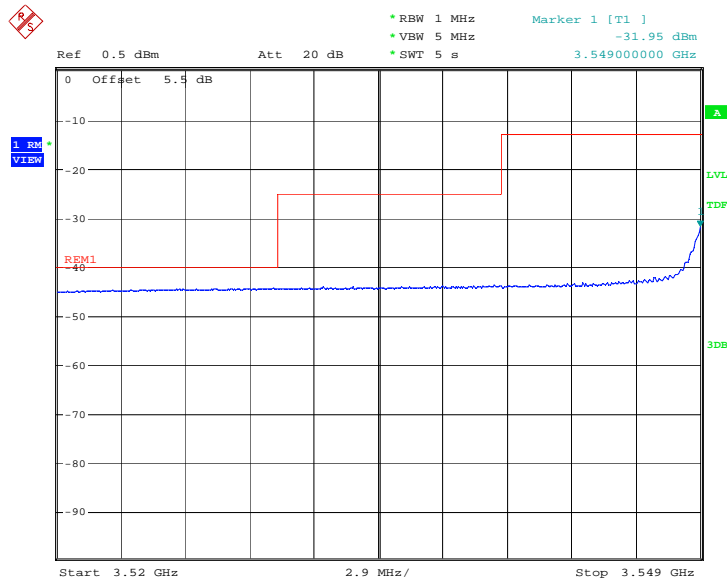


Date: 24.JUN.2022 16:17:34

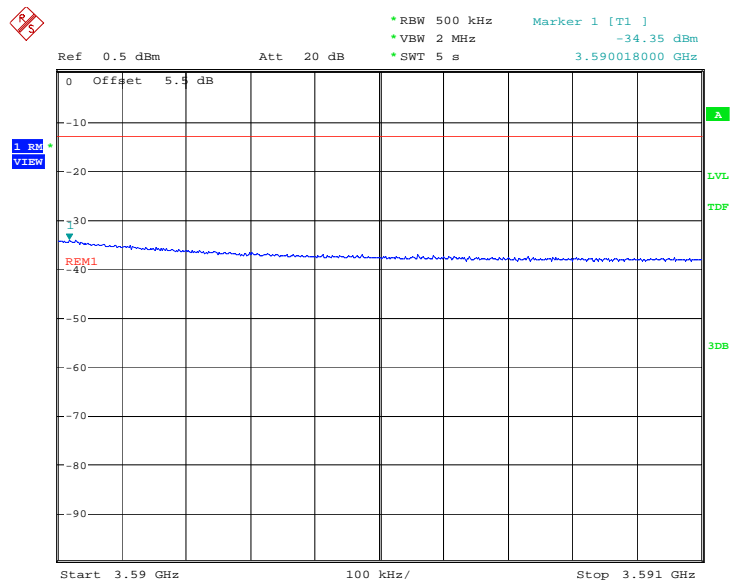
LOW BAND EDGE BLOCK-20MHz+20MHz-100%RB



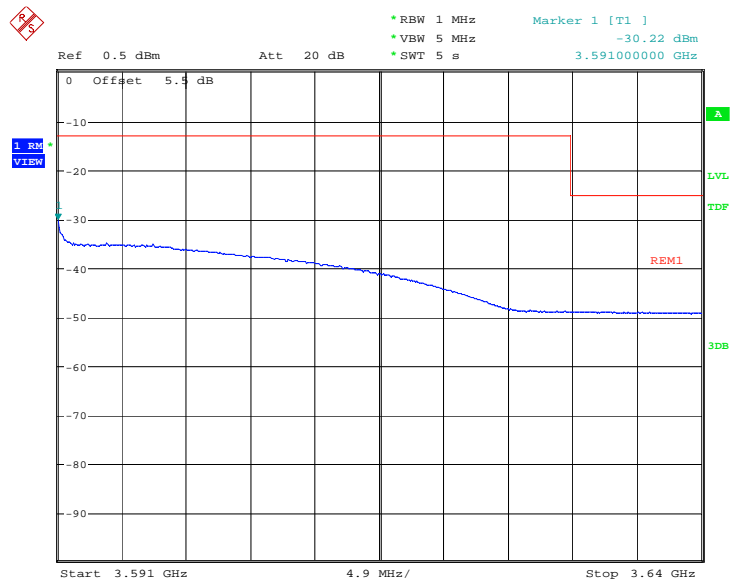
Date: 24 JUN.2022 16:18:49



Date: 24 JUN.2022 16:19:31

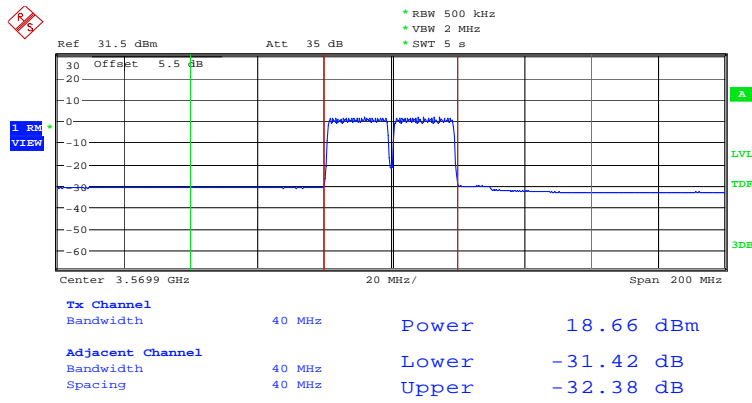


Date: 24.JUN.2022 16:20:13



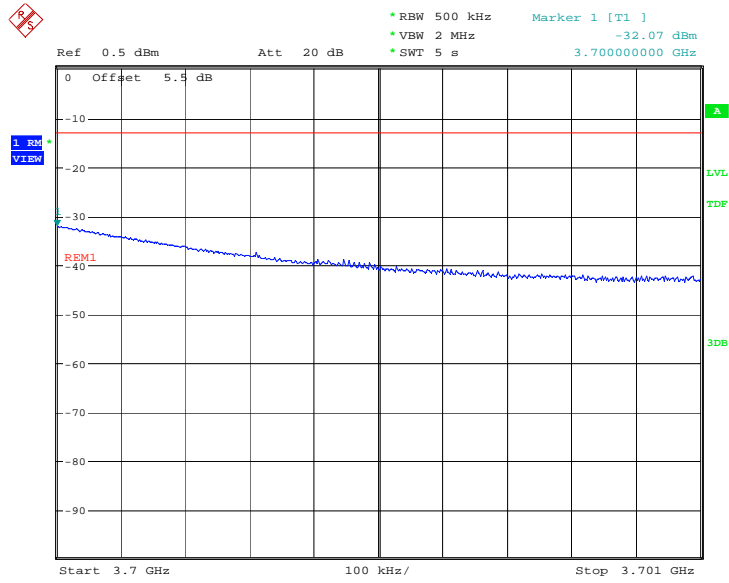
Date: 24.JUN.2022 16:20:55

ACLR

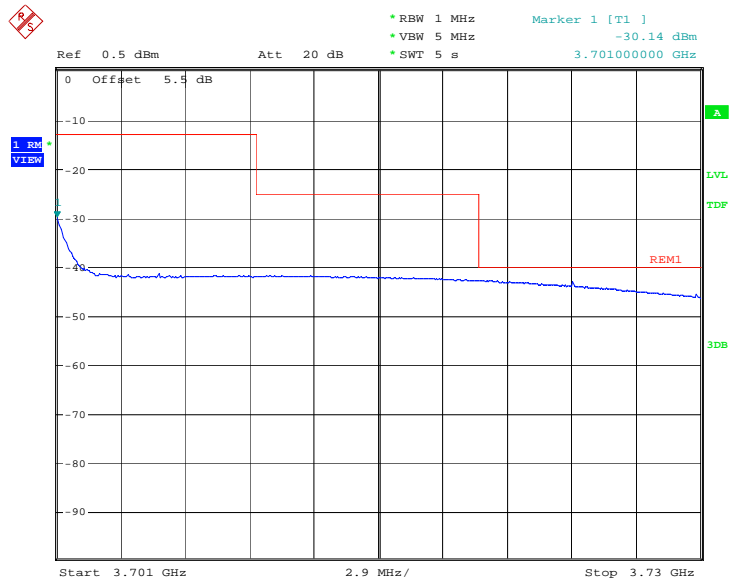


Date: 24.JUN.2022 16:21:20

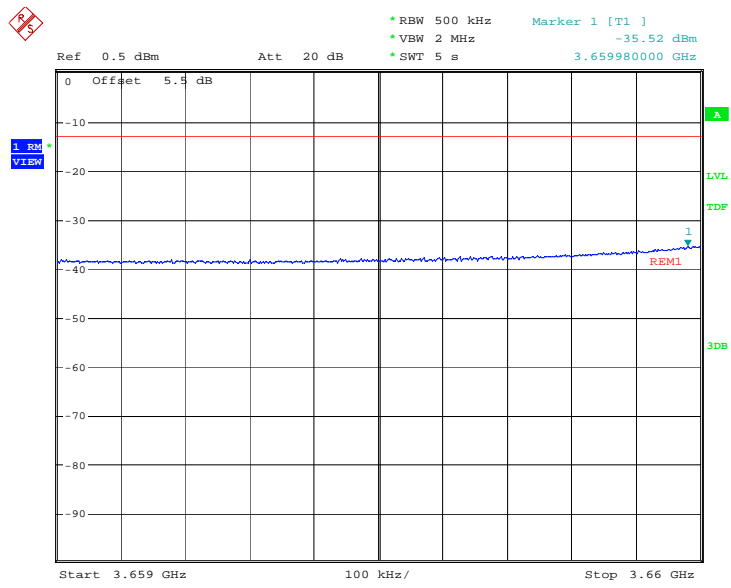
HIGH BAND EDGE BLOCK-20MHz+20MHz-100%RB



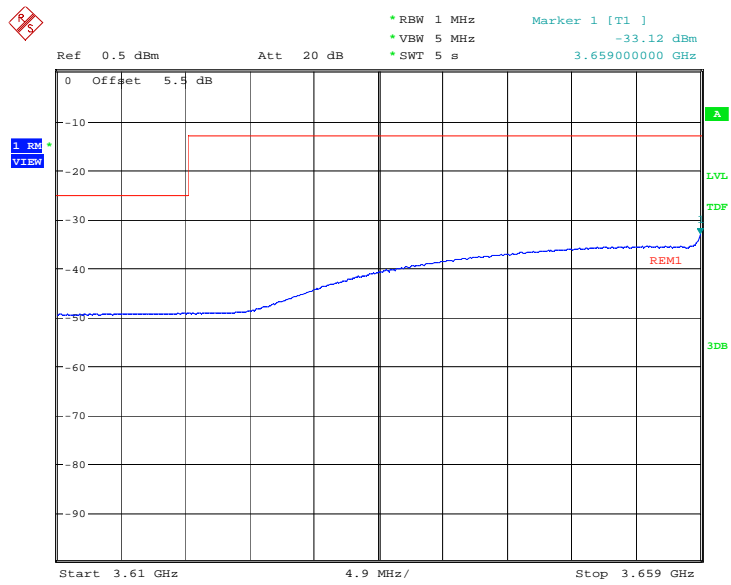
Date: 24 JUN.2022 16:22:31



Date: 24 JUN.2022 16:23:14

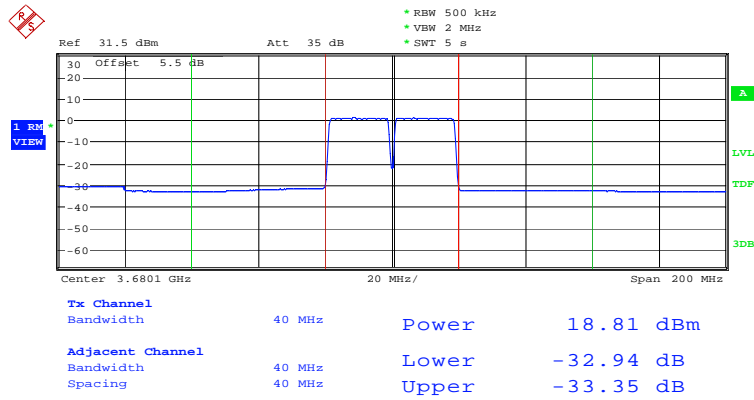


Date: 24 JUN. 2022 16:23:57



Date: 24 JUN. 2022 16:24:39

ACLR

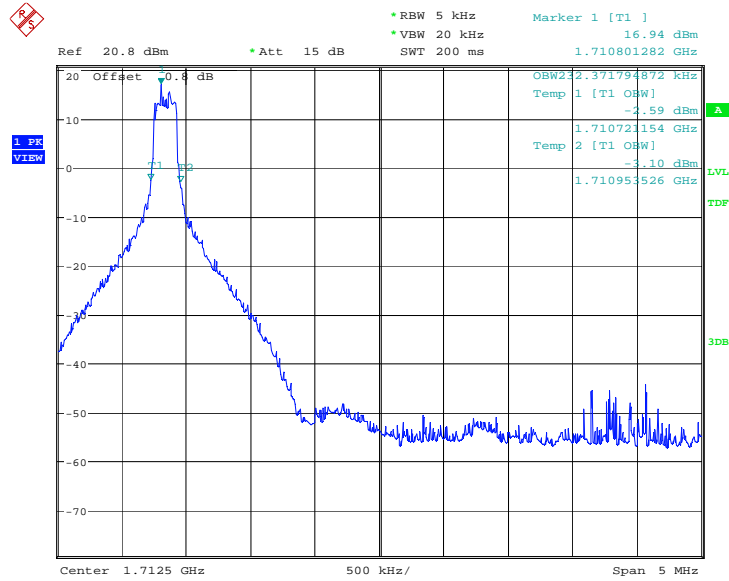


Date: 24.JUN.2022 16:25:03

LTE CA Band 66B

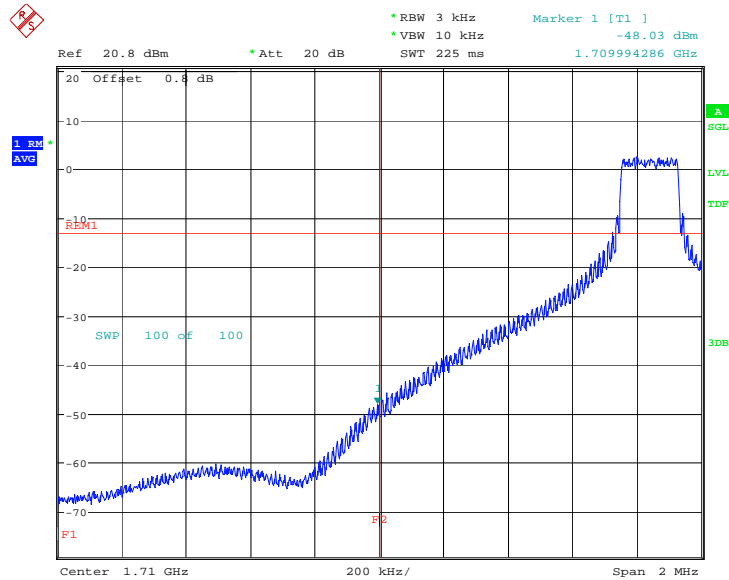
Only the worst case result is given below

OBW: 1RB-low_offset



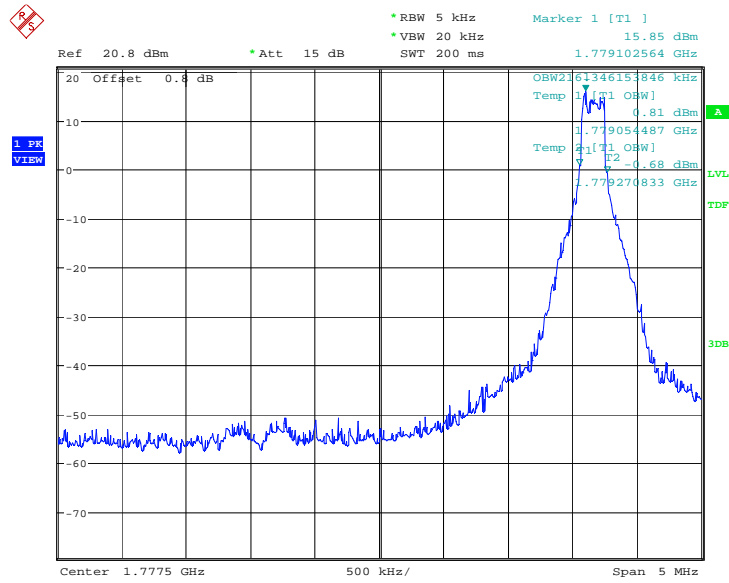
Date: 25.JUN.2022 08:49:43

LOW BAND EDGE BLOCK-15MHz+5MHz-1RB



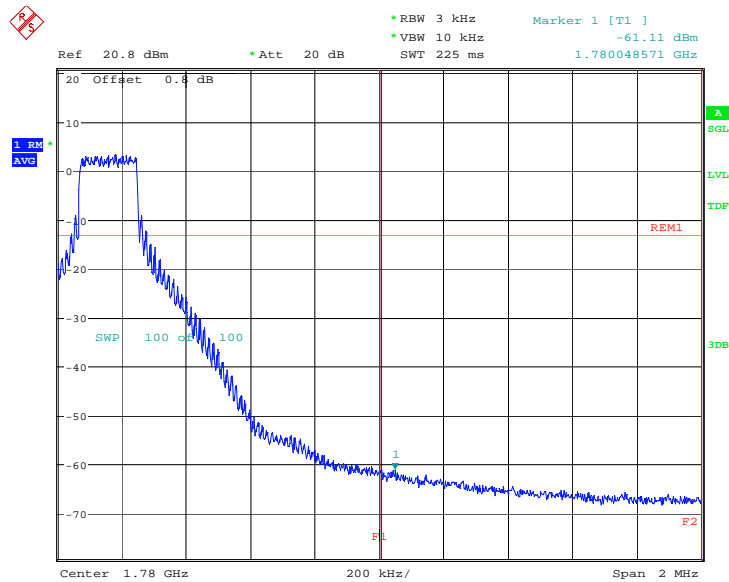
Date: 25.JUN.2022 08:50:46

OBW: 1RB-high_offset



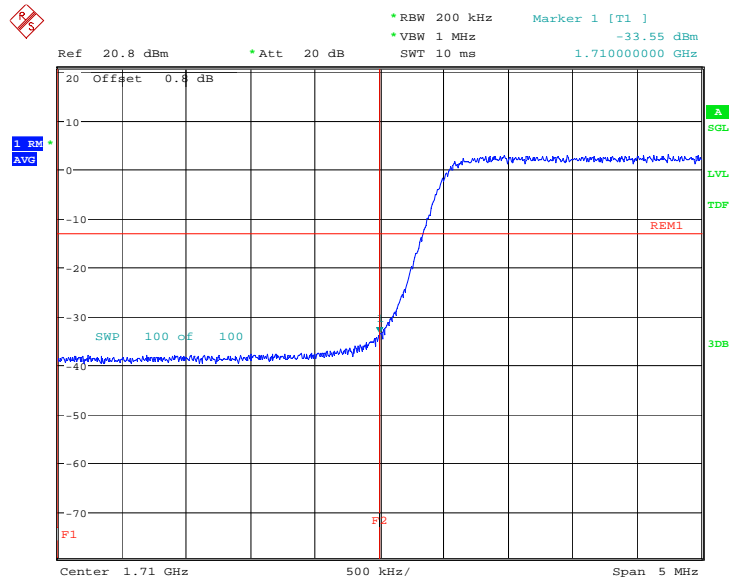
Date: 25.JUN.2022 08:51:36

HIGH BAND EDGE BLOCK-15MHz+5MHz-1RB



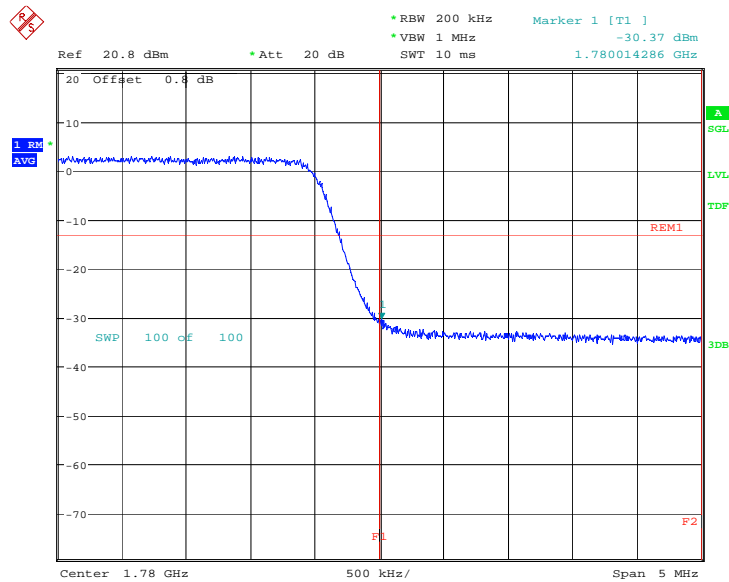
Date: 25.JUN.2022 08:52:39

LOW BAND EDGE BLOCK-10MHz+10MHz-100%RB



Date: 18.MAY.2022 09:27:49

HIGH BAND EDGE BLOCK-10MHz+10MHz-100%RB

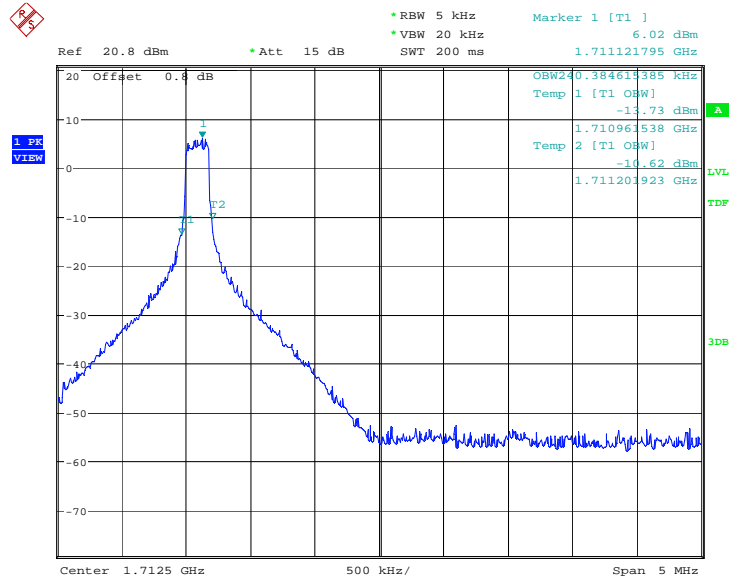


Date: 18.MAY.2022 09:29:14

LTE CA Band 66C

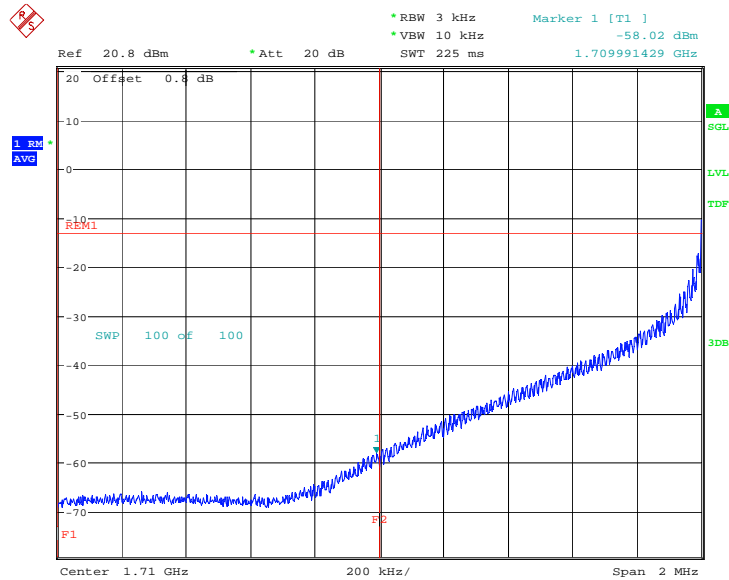
Only the worst case result is given below

OBW: 1RB-low_offset



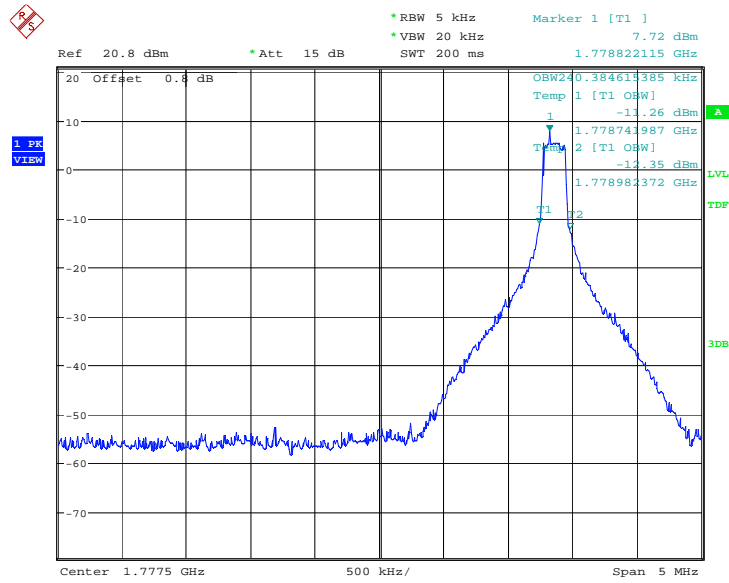
Date: 25.JUN.2022 08:53:44

LOW BAND EDGE BLOCK-20MHz+15MHz-1RB



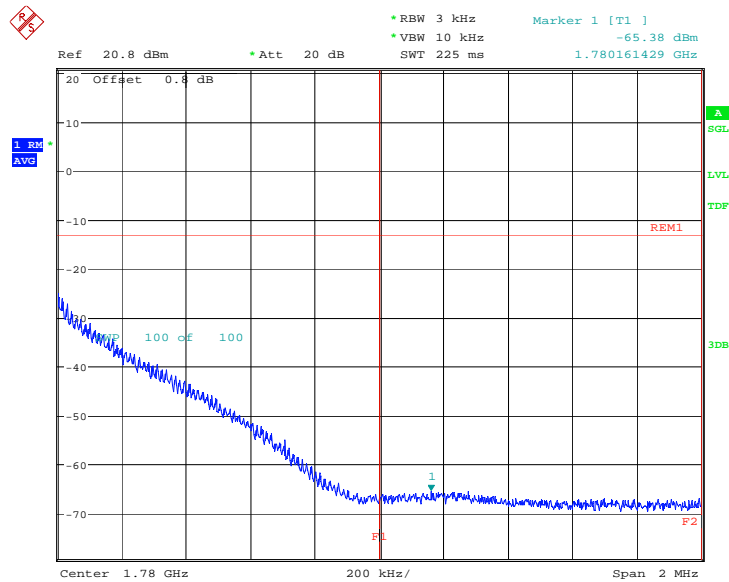
Date: 25.JUN.2022 08:54:46

OBW: 1RB-high_offset



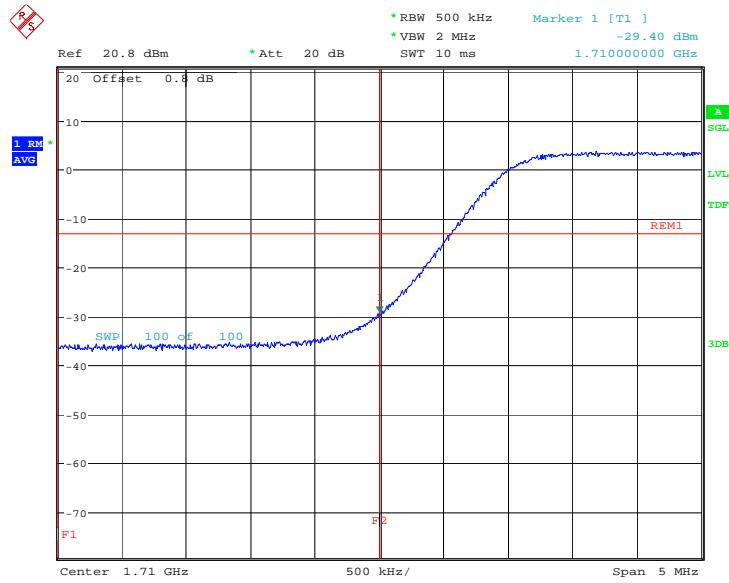
Date: 25.JUN.2022 08:55:36

HIGH BAND EDGE BLOCK-20MHz+15MHz-1RB



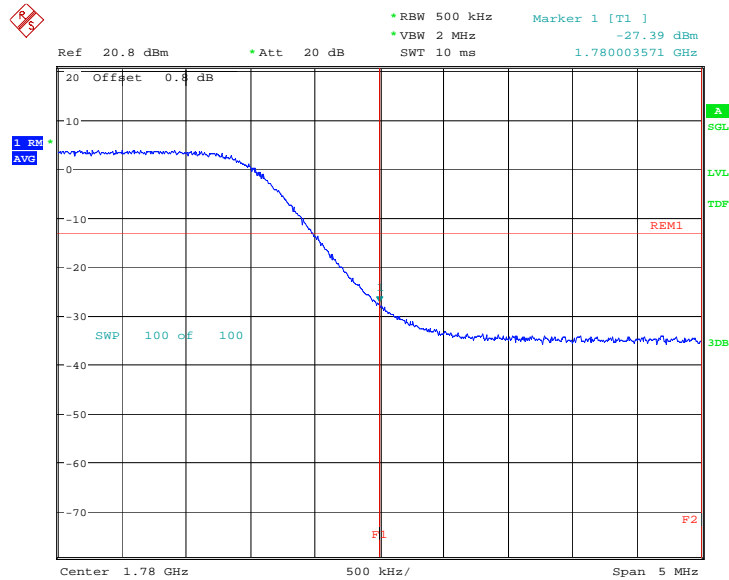
Date: 25.JUN.2022 08:56:39

LOW BAND EDGE BLOCK-20MHz+20MHz-100%RB



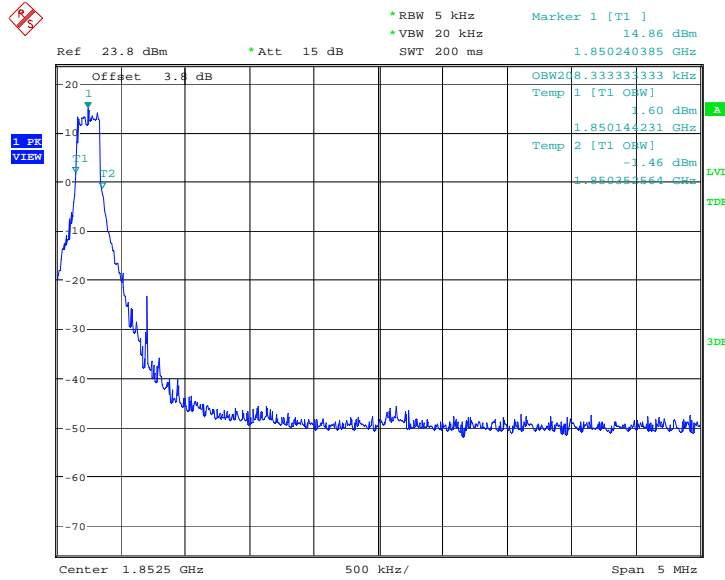
Date: 18.MAY.2022 00:28:57

HIGH BAND EDGE BLOCK-20MHz+20MHz-100%RB



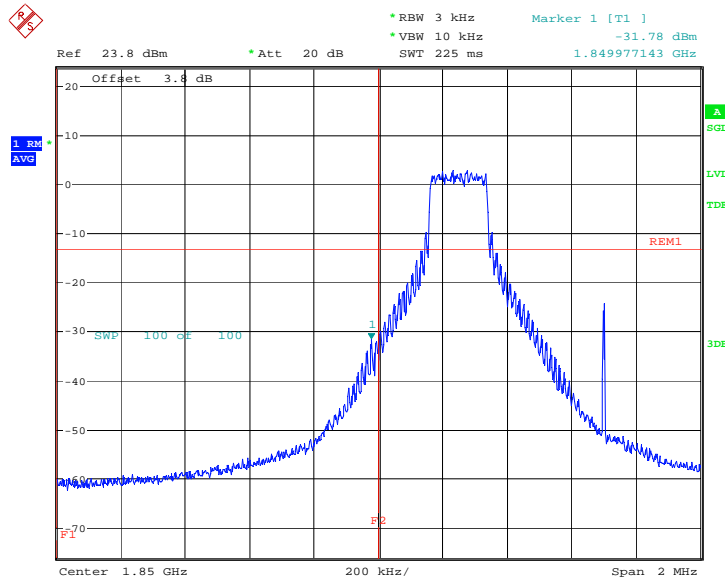
Date: 18.MAY.2022 00:30:22

LTE band 2@CA_2A-4A
OBW: 1RB-LOW_offset



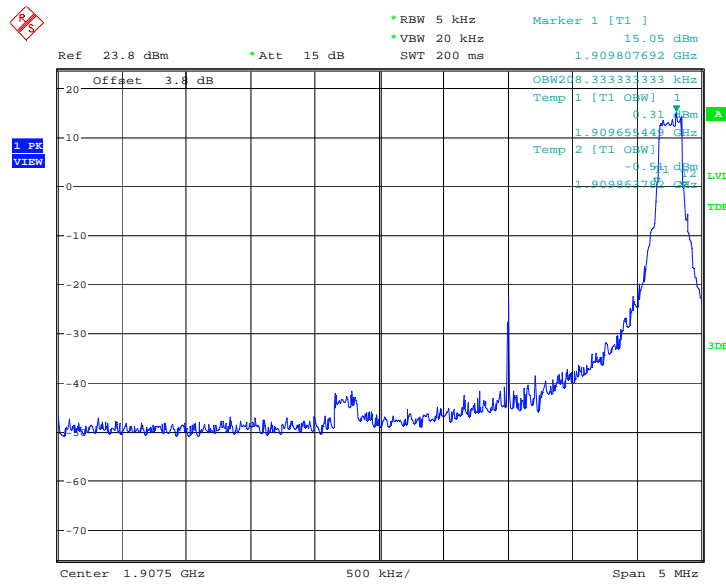
Date: 3.JUN.2022 14:33:01

LOW BAND EDGE BLOCK-1RB-LOW_offset



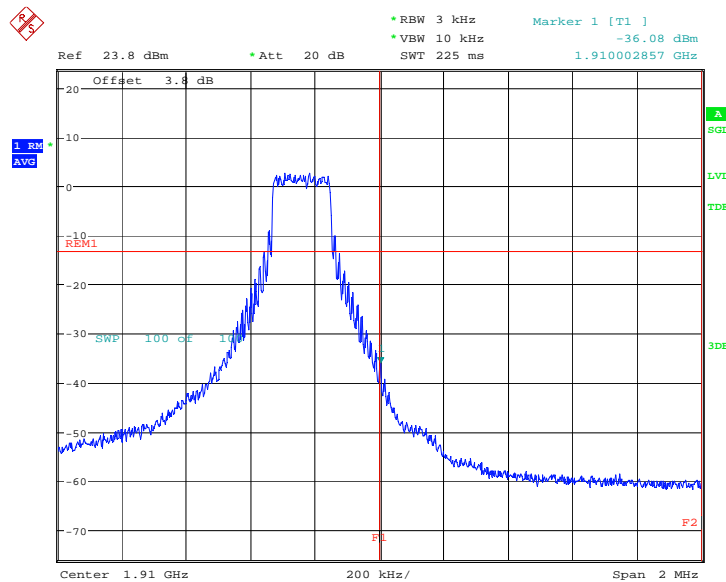
Date: 3.JUN.2022 14:34:06

OBW: 1RB-HIGH_offset



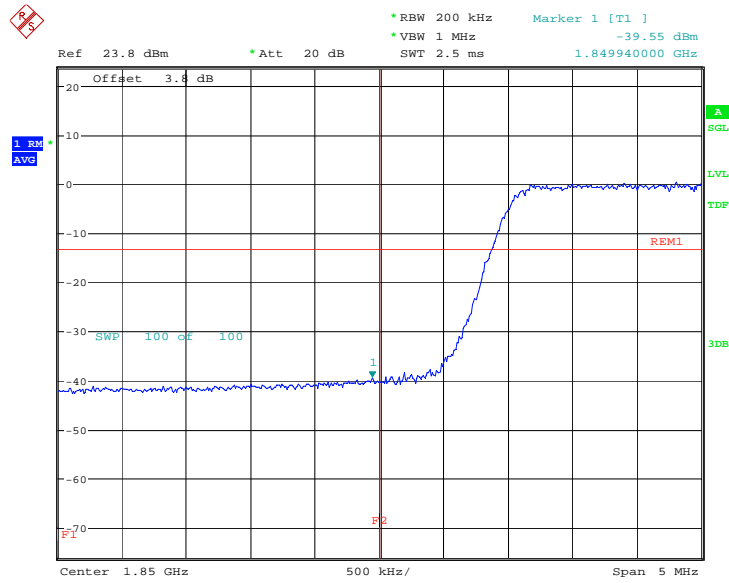
Date: 3.JUN.2022 14:36:30

HIGH BAND EDGE BLOCK-1RB-HIGH_offset



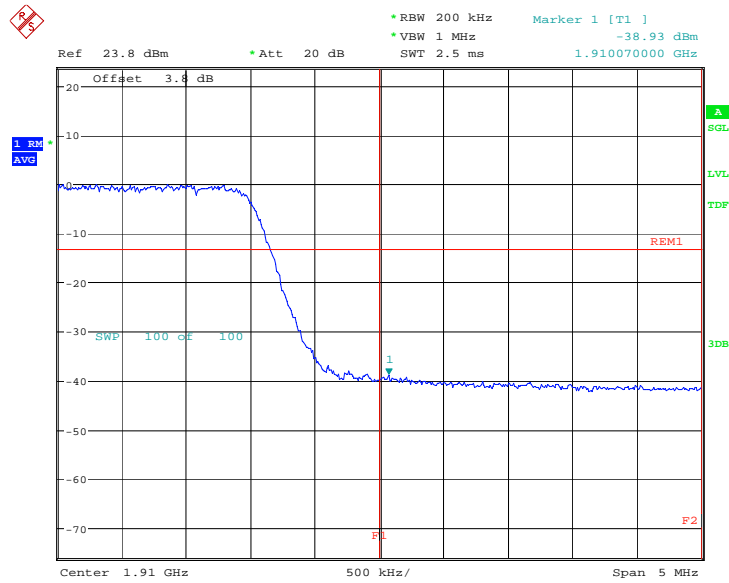
Date: 3.JUN.2022 14:37:33

LOW BAND EDGE BLOCK-20MHz-100%RB



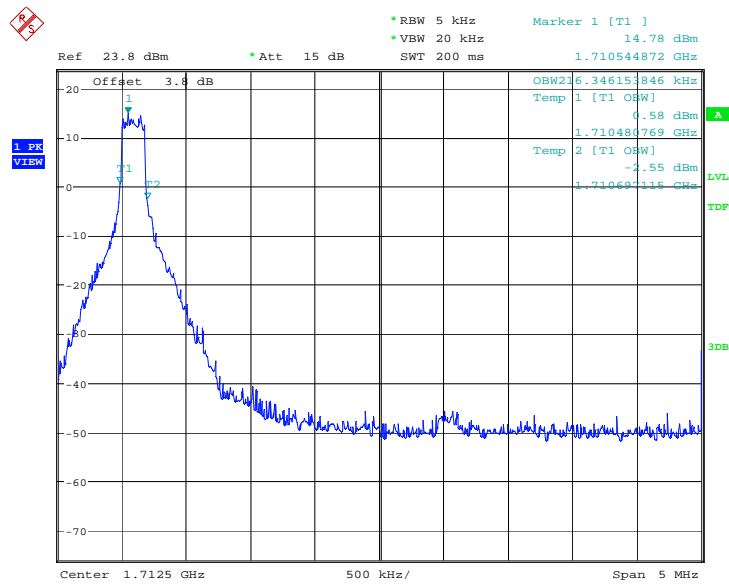
Date: 3.JUN.2022 13:47:45

HIGH BAND EDGE BLOCK-20MHz-100%RB



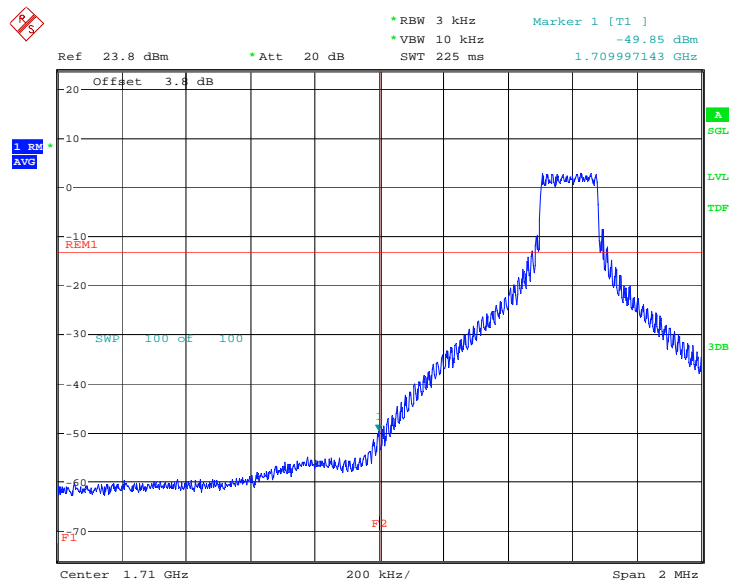
Date: 3.JUN.2022 13:49:47

LTE band 4@CA_2A-4A
OBW: 1RB-LOW_offset



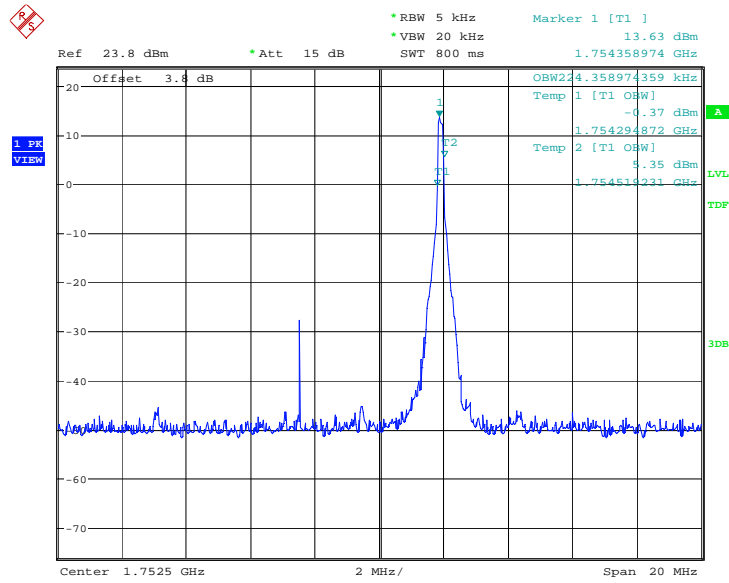
Date: 3.JUN.2022 14:12:04

LOW BAND EDGE BLOCK-1RB-LOW_offset



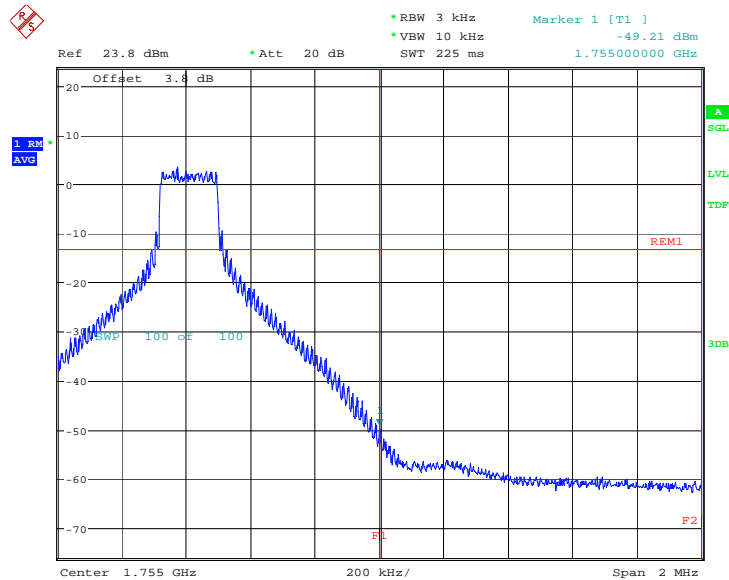
Date: 3.JUN.2022 14:13:07

OBW: 1RB-HIGH_offset



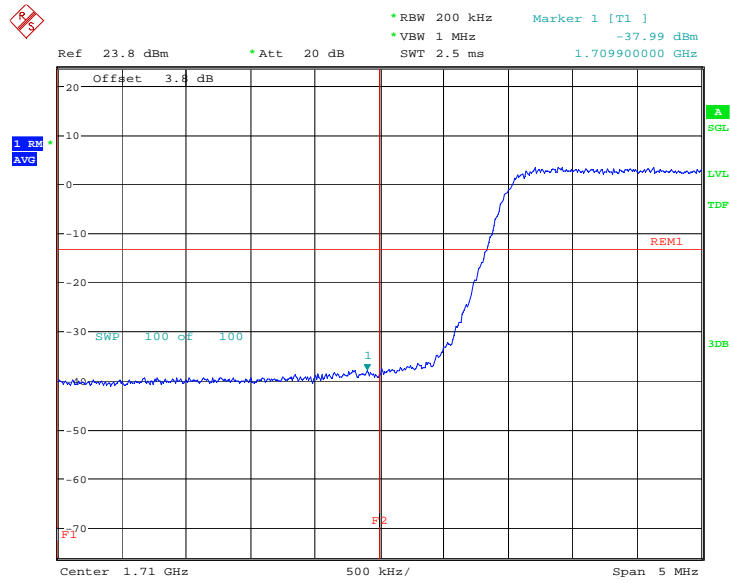
Date: 3.JUN.2022 14:15:32

HIGH BAND EDGE BLOCK-1RB-HIGH_offset



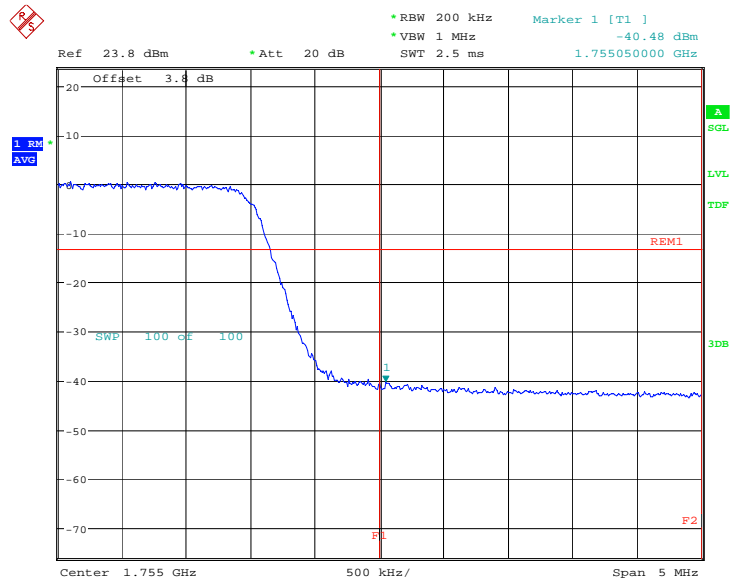
Date: 3.JUN.2022 14:16:35

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 3.JUN.2022 13:34:30

HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 3.JUN.2022 13:36:33